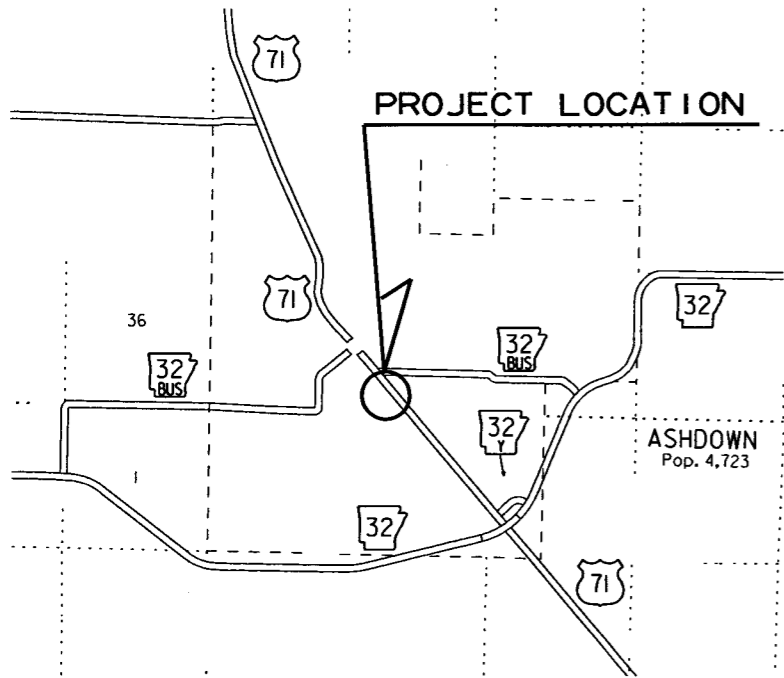
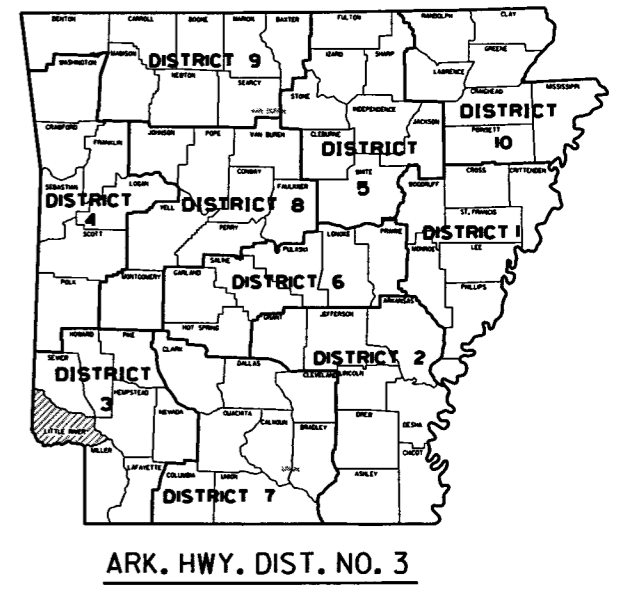


DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 030452							1	23
② FRONT ST. RR SIG. & HWY. 71/FRONT ST. TRAFFIC SIG. (ASHDOWN) (S)								

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
CONSTRUCTION PLANS FOR STATE HIGHWAY

**FRONT ST. RR SIG. &  
HWY. 71/FRONT ST. TRAFFIC SIG.  
(ASHDOWN) (S)**

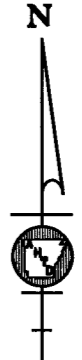
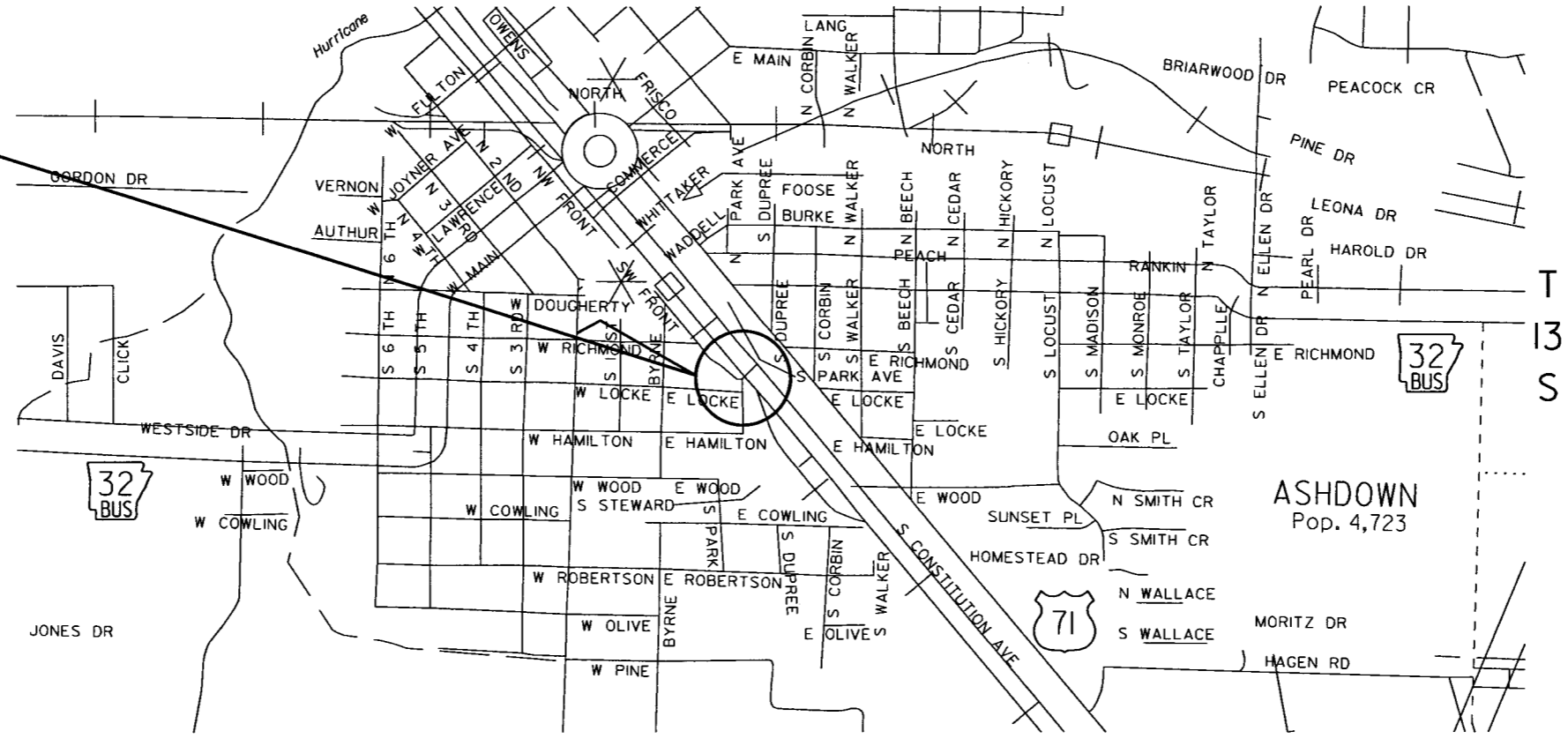
**LITTLE RIVER COUNTY  
ROUTE 71 SECTION 4  
F.A.P. RPD-0041(34)  
JOB 030452**



VICINITY MAP

NOT TO SCALE

PROJECT LOCATION



MID-POINT OF PROJECT  
LAT. = N 33° 40' 11.38"  
LONG. = W 94° 7' 38.63"

APPROVED



1-19-17  
DEPUTY DIRECTOR  
AND CHIEF ENGINEER

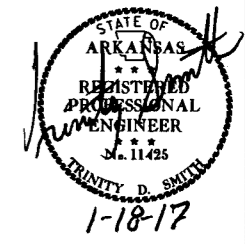
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							030452	2	23

INDEX OF SHEETS

SHEET NO.	TITLE	DRWG. NO.	DATE
1	TITLE SHEET		
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND NOTES		
3	MAINTENANCE OF TRAFFIC		
4	PERMANENT PAVEMENT MARKINGS		
5	QUANTITIES		
6	SUMMARY OF QUANTITIES AND REVISIONS		
7 - 8	SURVEY CONTROL DETAILS		
9	TRAFFIC SIGNAL QUANTITIES		
10 - 13	SIGNALIZATION PLAN SHEETS		
14	CURBING DETAILS	CG-1	11-29-07
15	PAVEMENT MARKING DETAILS	PM-1	5-12-16
16	CONTROLLER CABINET UTILITY DRAWER	SD-5	9-12-13
17	HEAVY DUTY PULL BOX	SD-6	9-02-15
18	SIGNAL HEAD PLACEMENT	SD-8	12-08-16
19	SERVICE POINT	SD-9	9-12-13
20	STEEL POLE WITH MAST ARM	SD-11	12-08-16
21	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	9-02-15
22	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	9-02-15
23	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	9-02-15

TRAFFIC SIGNAL NOTES:

- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2014) NATIONAL ELECTRICAL CODE, NFPA 101 (2012) LIFE SAFETY CODE, STATE ELECTRICAL CODE AND LOCAL ELECTRICAL CODE.
- EXTEND GREEN EQUIPMENT GROUNDING CONDUCTOR (E.G.C.) FROM GROUND BAR AT MAIN BREAKER TO CONTROL PANEL AND TO FIRST POLE. SOLIDLY BOND EGC TO GROUND LUG OF CONTROL CABINET AND TO POLE GROUND. ENSURE THAT ONLY ONE NEUTRAL-TO-GROUND BOND EXISTS IN THE SYSTEM AND THAT IT IS AT THE MAIN BREAKER.
- ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY TO A SERVICE POLE WITH EXTERNAL RAIN-TIGHT BREAKER (MAIN BREAKER), GALVANIZED STEEL SERVICE RISER, METER LOOP (IF REQUIRED), AND WEATHERHEAD AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. IF THE SERVICE POINT IS OVER 10 FEET FROM THE CONTROLLER, THE CONTRACTOR SHALL PROVIDE AND INSTALL A SEPARATE TWO CIRCUIT EXTERNAL BREAKER (SECONDARY BREAKER) ON OR NEAR THE TRAFFIC SIGNAL CONTROLLER CABINET AND SHALL INSTALL CONDUIT, ELECTRICAL SERVICE WIRE (20#6 USE RATED, WITH GROUND TYPICAL), AND PERFORM WIRING TO TAP INTO THE CITY'S MAIN BREAKER AS PART OF THIS CONTRACT. CONDUIT IS PAID FOR AS A SEPARATE ITEM OF THIS CONTRACT. TWO CIRCUIT BREAKERS, CONSIDERED SUBSIDIARY TO THE CONTROL EQUIPMENT ARE NEEDED WHERE STREET LIGHTING IS INCLUDED. AS PART OF THE SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (20#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT FROM THE CIRCUIT SERVING THE TRAFFIC SIGNAL CONTROL EQUIPMENT FROM THE POINT OF TIE-IN AT THE SECONDARY BREAKER PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL CONNECT A SEPARATE NEUTRAL FOR EACH LOAD SWITCH REPRESENTED ON EACH SIGNAL POLE.
- TRAFFIC CONTROLLER CABINET AND LAYOUT SHALL BE SUCH THAT IT IS NOT NECESSARY TO SHUT DOWN POWER OR REMOVE LOAD SWITCHES IN ORDER TO EASILY TEST OR MODIFY DETECTOR INPUTS TO THE CONTROLLER.
- CONTROLLER CABINET SHALL BE WIRED SUCH THAT DURING FLASH OPERATIONS POWER TO THE LOAD SWITCHES CANNOT BACKFEED TO LOAD SWITCH POWER BUSS.
- ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS AND DETAILS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.
- CONDUIT INSTALLED UNDER ROADWAY SURFACES SHALL BE INSTALLED BY PUSHING OR BORING METHODS. IF THE ENGINEER DETERMINES THIS IS NOT FEASIBLE, THEN A TRENCHING METHOD AS SHOWN IN THE DETAILS MAY BE USED.
- TRAFFIC SIGNAL POLES SHALL BE GALVANIZED. BACKPLATES SHALL BE SUPPLIED FOR ALL SIGNAL HEADS.
- PAVEMENT MARKING SHOWN FOR REFERENCE ONLY. SEE PAVEMENT MARKING PLAN SHEETS.
- FOUNDATION FOR ALL POLES SHALL BE EXTENDED IF NECESSARY TO ACCOMMODATE THE REQUIREMENTS FOR SIGNAL HEAD CLEARANCE ABOVE ROADWAY ONLY AT LOCATIONS WHERE THE GROUND ELEVATION AT THE POLE IS BELOW THE ELEVATION OF THE ROADWAY (SEE NOTES ON SPECIAL DETAILS); PAYMENT WILL BE INCLUDED IN SECTION 714 AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- ALL PULL BOXES SHALL BE (TYPE 2 HD) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE 3" DIAMETER UNLESS SPECIFIED ON PLANS.
- CONTRACTOR SHALL NOTIFY ALL EXISTING UTILITY OWNERS BEFORE BEGINNING WORK ON THIS PROJECT.
- LUMINAIRE ASSEMBLIES SHALL BE OF THE FULL CUTOFF TYPE.
- HARDWARE INPUTS MAY BE DETERMINED BY SUPPLIER. EACH DETECTOR OUTPUT SHALL INPUT THE CONTROLLER THROUGH A SEPARATE INPUT UNLESS OTHERWISE NOTED AND BE PROGRAMMED TO ACTUATE THE ASSOCIATED PHASE COMBINATION (COMB). DETECTORS SHALL ALSO BE PROGRAMMED TO PROVIDE VEHICLE COUNT/OCCUPANCY DATA.
- TO DETERMINE UTILITY CLEARANCES ABOVE THE TRAFFIC SIGNAL POLE, REFER TO THE POLE SCHEDULE FOR VERTICAL SHAFT HEIGHT. WHERE THE POLE SCHEDULE INDICATES THAT A LUMINAIRE ARM WILL BE USED, 38 FEET SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE LUMINAIRE ARM. WHERE THE POLE SCHEDULE INDICATES A TRAFFIC SIGNAL POLE WITHOUT A LUMINAIRE ARM, A HEIGHT OF 21' SHOULD BE USED TO DETERMINE UTILITY CLEARANCE ABOVE THE TRAFFIC SIGNAL MAST ARM. AN ADDITIONAL 6 FEET SHOULD BE USED DIRECTLY ABOVE "VIDEO DETECTOR" AT LOCATIONS SHOWN ON THE SIGNAL PLANS.
- THE DESIRABLE MINIMUM DISTANCE FROM THE FACE OF ROADWAY CURB OR SHOULDER EDGE TO THE FACE OF NON-BREAKAWAY POLE OR OBSTRUCTION IS 6 FEET. REFER TO TRAFFIC SIGNAL PLANS FOR SPECIFIC LOCATION OF POLES, CONTROLLER AND ANY OTHER NON-BREAKAWAY OBSTRUCTIONS. REFER TO DESIGN PARAMETERS, MINIMUM CLEAR ZONE DISTANCE FOR MINIMUM DISTANCE FROM THE EDGE OF TRAVELED WAY TO THE FACE OF A NON-BREAKAWAY POLE OR OBSTRUCTION. TRAFFIC SIGNAL POLES OR ANY OTHER NON-BREAKAWAY OBSTRUCTION SHALL NOT BE INSTALLED WITHIN THE CLEAR ZONE.
- AS DETERMINED BY THE ENGINEER, FOUNDATION EMBEDMENT MAY BE DECREASED BY A MAXIMUM OF TWO FEET IF COMPETENT ROCK IS ENCOUNTERED PRIOR TO ACHIEVING PLAN EMBEDMENT AND AT LEAST HALF OF THE REMAINING PLAN EMBEDMENT LENGTH IS KEVED INTO COMPETENT ROCK.
- CONNECTION OF TRAFFIC SIGNAL DISPLAY TO FIELD WIRING SHALL UTILIZE AN APPROVED TERMINAL STRIP BEHIND HAND-HOLE COVER AT BASE OF POLE. TERMINAL STRIP SHALL PROVIDE PROTECTION TO PREVENT EXPOSURE TO THE PUBLIC IN THE EVENT THAT POLE COVER IS MISSING. PAYMENT FOR TERMINAL STRIPS SHALL BE INCLUDED IN ITEM 714-TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION.
- CONTROLLER CABINET LAYOUT AND ORIENTATION SHALL CONFORM TO IMSA STANDARDS.
- ONE VIDEO PROGRAMMING MODULE SHALL BE PROVIDED FOR AIMING AND SETUP OF DETECTORS IF THE VIDEO SYSTEM CANNOT BE ADJUSTED THROUGH HARDWARE AND SOFTWARE PROVIDED BY ITEMS WITHIN THE JOB.
- TRAFFIC SIGNAL CONTRACTOR MUST NOTIFY RESIDENT ENGINEER OR ASSIGNED DEPARTMENT PROJECT INSPECTOR EACH DAY PRIOR TO SIGNAL RELATED WORK. NO WORK ON TRAFFIC SIGNALS WILL BE ALLOWED OR APPROVED WITHOUT THIS PRIOR NOTIFICATION.
- ALL STEEL POLES SHALL BE DESIGNED TO MEET THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4th EDITION (2001) WITH 2003 AND 2006 INTERIMS.
- DOOR PANEL TEST PUSH BUTTONS SHALL ACTUATE INDICATED PHASES. DETECTOR ASSIGNMENTS AND/OR SIDE PANEL JUMPERS MAY REQUIRE MODIFICATION.
- ALL SYSTEM DETECTOR RACKS AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED BY THE MAIN CONTROLLER CABINET POWER SURGE PROTECTION.



GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 030452	BIDDING REQUIREMENTS AND CONDITIONS
JOB 030452	CABINET DRAWER ASSEMBLY
JOB 030452	CARGO PREFERENCE ACT REQUIREMENTS
JOB 030452	DELAY IN RIGHT OF WAY OCCUPANCY
JOB 030452	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 030452	EDGE CARD VIDEO PROCESSOR
JOB 030452	ELECTRICAL CONDUCTORS FOR LUMINAIRES
JOB 030452	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB 030452	EMERGENCY BATTERY BACKUP SYSTEM INSTALLATION
JOB 030452	FIBER OPTIC BLANK OUT SIGN
JOB 030452	INSURANCE, CONSTRUCTION, AND FLAGGING REQUIREMENTS ON RAILROAD PROPERTY (KCS)
JOB 030452	LED LUMINAIRE ASSEMBLY (BUG U0 TYPE)
JOB 030452	LED TRAFFIC SIGNAL HEAD
JOB 030452	MANDATORY ELECTRONIC CONTRACT
JOB 030452	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 030452	SERVICE POINT ASSEMBLY (TRAFFIC CONTROL DEVICES)
JOB 030452	STREET NAME SIGN (MAST ARM MOUNTED)
JOB 030452	UTILITY ADJUSTMENTS
JOB 030452	VIDEO DETECTOR (COLOR)

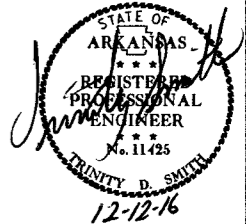
LOCATION:	HWY. 71 / FRONT ST.
CITY:	ASHDOWN
COUNTY:	LITTLE RIVER
DISTRICT:	3
SCALE:	N/A
DRAWN BY:	CJS

DATE: 12/12/2016 FILE NAME: t090452\_job.dgn

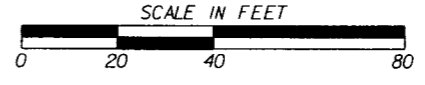
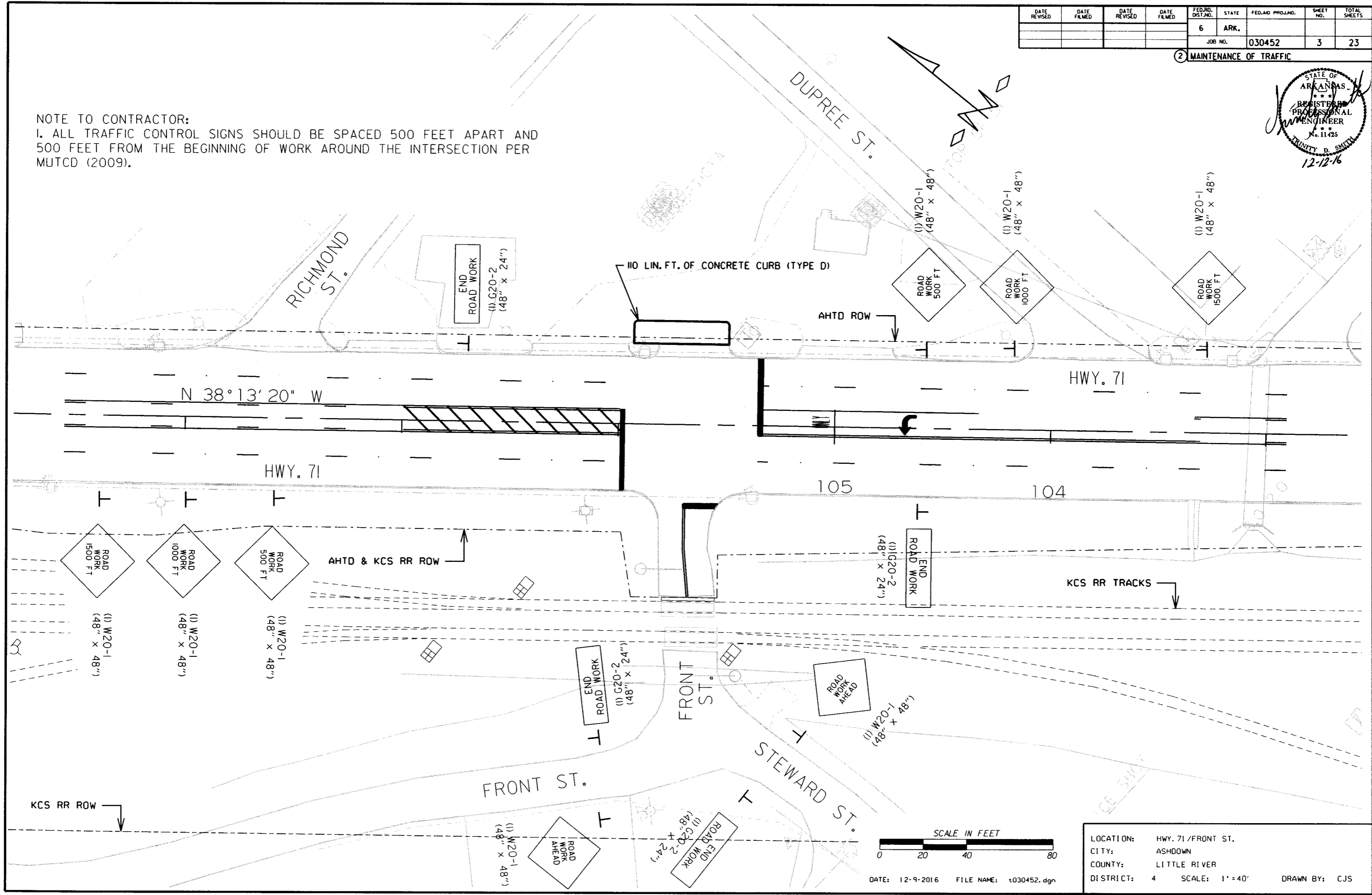
T090452\_job.dgn 12/12/2016

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 030452							3	23

② MAINTENANCE OF TRAFFIC



NOTE TO CONTRACTOR:  
 1. ALL TRAFFIC CONTROL SIGNS SHOULD BE SPACED 500 FEET APART AND 500 FEET FROM THE BEGINNING OF WORK AROUND THE INTERSECTION PER MUTCD (2009).



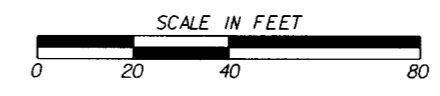
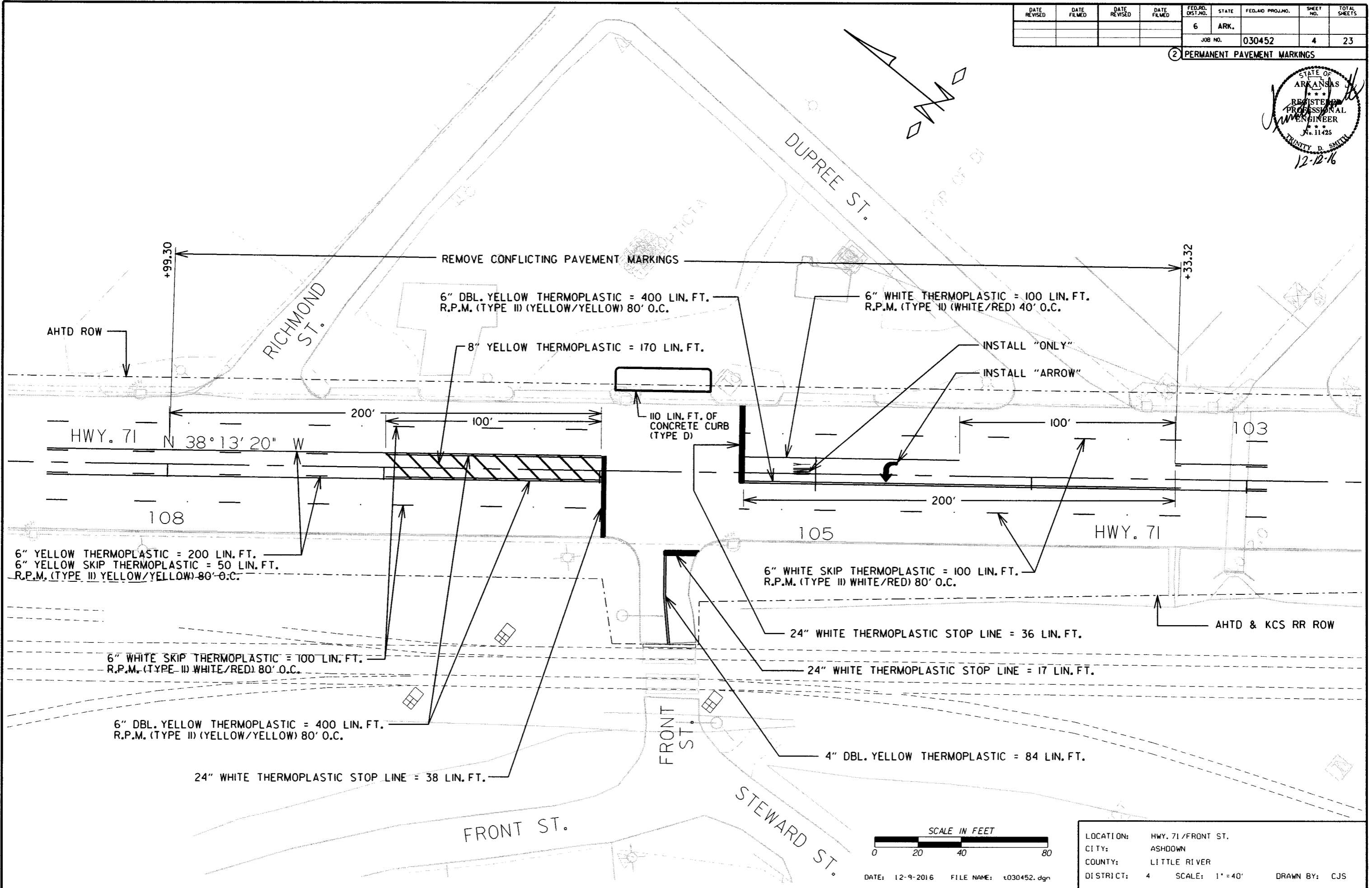
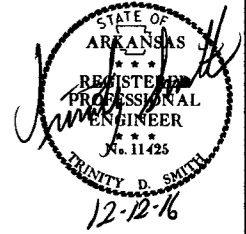
DATE: 12-9-2016 FILE NAME: t030452.dgn

LOCATION: HWY. 71 / FRONT ST.  
 CITY: ASHDOWN  
 COUNTY: LITTLE RIVER  
 DISTRICT: 4 SCALE: 1" = 40' DRAWN BY: CJS

T030452.DGN 12/9/2016

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		4	23
JOB NO. 030452								

PERMANENT PAVEMENT MARKINGS



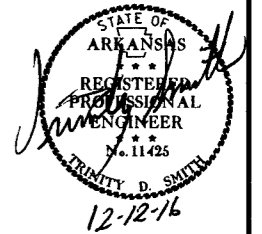
DATE: 12-9-2016 FILE NAME: t030452.dgn

LOCATION: HWY. 71 / FRONT ST.  
 CITY: ASHDOWN  
 COUNTY: LITTLE RIVER  
 DISTRICT: 4 SCALE: 1" = 40' DRAWN BY: CJS

T030452.DGN 12/9/2016

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	030452		5	23

② QUANTITIES



**CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS**

DESCRIPTION	END OF JOB LIN. FT. - EACH	REMOVAL OF PERMANENT PAVEMENT MARKINGS LIN. FT.	RAISED PAVEMENT MARKERS		THERMOPLASTIC PAVEMENT MARKING						
			TYPE II (WHITE/RED)	TYPE II (YEL/YEL)	6"		8"	24"	WORDS	ARROWS	
					WHITE	YELLOW	YELLOW	WHITE			
			EACH		LIN. FT.						
REMOVAL OF PERMANENT PAVEMENT MARKINGS	1440	1440									
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	12		12								
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)	8			8							
THERMOPLASTIC PAVEMENT MARKING WHITE (6")	300				300						
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	1134					1134					
THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	170						170				
THERMOPLASTIC PAVEMENT MARKING WHITE (24")	91							91			
THERMOPLASTIC PAVEMENT MARKING WORDS	1								1		
THERMOPLASTIC PAVEMENT MARKING ARROWS	1									1	
<b>TOTALS:</b>		<b>1440</b>	<b>12</b>	<b>8</b>	<b>300</b>	<b>1134</b>	<b>170</b>	<b>91</b>	<b>1</b>	<b>1</b>	

NOTE: THIS IS A LOW TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

**ADVANCE WARNING SIGNS AND DEVICES**

SIGN NUMBER	DESCRIPTION	SIGN SIZE	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED	
				NO.	SQ. FT.
W20-1	ROAD WORK 1500 FT.	48"x48"	2	2	32.0
W20-1	ROAD WORK 1000 FT.	48"x48"	2	2	32.0
W20-1	ROAD WORK 500 FT.	48"x48"	2	2	32.0
W20-1	ROAD WORK AHEAD	48"x48"	2	2	32.0
G20-2	END ROAD WORK	48"x24"	4	4	32.0
<b>TOTAL:</b>					<b>160.0</b>

NOTE: THIS IS A LOW TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

**CONCRETE CURB**

STATION	STATION	LOCATION	TYPE D
			LIN. FT.
105+49.00	105+93.50	HWY. 71 - RIGHT SIDE	110
<b>TOTAL:</b>			<b>110</b>

**EROSION CONTROL**

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL	
			WATER	SOLID SODDING
			M.GAL.	SQ.YD.
105+49.00	105+93.50	HWY. 71 - RIGHT SIDE	0.6	49
<b>TOTALS:</b>			<b>0.6</b>	<b>49</b>

BASIS OF ESTIMATE:

WATER..... 12.6 GAL. / SQ. YD. OF SOLID SODDING

**EARTHWORK**

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
105+49.00	105+93.50	HWY. 71 - RIGHT SIDE	19	25
<b>TOTALS:</b>			<b>19</b>	<b>25</b>

\* QUANTITY ESTIMATED.

SEE SECTION 104.03 OF THE STD. SPECS.

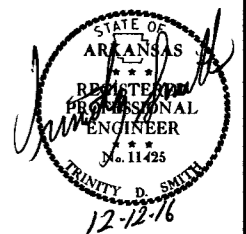
NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

LOCATION: HWY. 71 / FRONT ST.  
 CITY: ASHDOWN  
 COUNTY: LITTLE RIVER  
 DISTRICT: 3 SCALE: N/A DRAWN BY: CJS

DATE: 12/8/2016 FILE NAME: t030452.dgn

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 030452	6	23

2 SUMMARY OF QUANTITIES & REVISIONS



SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
210	UNCLASSIFIED EXCAVATION	19	CU. YD.
210	COMPACTED EMBANKMENT	25	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	160	SQ. FT.
604	REMOVAL OF PERMANENT PAVEMENT MARKINGS	1440	LIN. FT.
620	WATER	0.6	M. GAL.
624	SOLID SODDING	49	SQ. YD.
634	CONCRETE CURB (TYPE D)	110	LIN. FT.
SP & 701	ACTUATED CONTROLLER TS2-TYPE 2 (8 PHASES)	1	EACH
SP	BATTERY BACKUP SYSTEM	1	EACH
SP	FIBER OPTIC BLANK OUT SIGN	2	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	6	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	1	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	229	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	90	LIN. FT.
708	TRAFFIC SIGNAL CABLE (12C/14 A.W.G.)	300	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	149	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	171	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	56	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	22	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	80	LIN. FT.
709	GALVANIZED STEEL CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	131	LIN. FT.
711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
711	CONCRETE PULL BOX (TYPE 2 HD)	2	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (32')	1	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (42'-32')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	1	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
719	THERMOPLASTIC PAVEMENT MARKING WHITE (6")	300	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING WHITE (24")	91	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	1134	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	170	LIN. FT.
719	THERMOPLASTIC PAVEMENT MARKING (WORDS)	1	EACH
719	THERMOPLASTIC PAVEMENT MARKING (ARROWS)	1	EACH
721	RAISED PAVEMENT MARKERS (TYPE II)	20	EACH
SP	18" STREET NAME SIGN	2	EACH
* SP & 733	VIDEO DETECTOR (CLR)	6	EACH
733	VIDEO CABLE	544	LIN. FT.
733	VIDEO MONITOR (CLR)	1	EACH
* SP & 733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	4	EACH
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	1	EACH

\* ONE SPARE VIDEO DETECTOR AND ONE SPARE VIDEO PROCESSOR SHALL BE SUPPLIED.

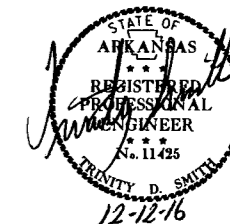
REVISIONS

DATE	REVISION	SHEET NUMBER

LOCATION: HWY. 71/Front St.  
 CITY: ASHDOWN  
 COUNTY: LITTLE RIVER  
 DISTRICT: 3 SCALE: N/A DRAWN BY: CJS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 030452	7	23

2 SURVEY CONTROL DETAILS



SURVEY CONTROL COORDINATES

Project Name: s030452  
Date: 2/26/2016  
Coordinate System: ARKANSAS STATE PLANE - SOUTH ZONE BASED ON GPS CONTROL,  
PROJECTED TO GROUND.  
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	1684548.4226	664902.2126	330.163	CTL	STD AHTD MON. STAMPED PN: 1 ASHDOWN
2	1684230.9692	665156.7961	329.871	CTL	STD AHTD MON. STAMPED PN: 2 ASHDOWN
3	1683805.6124	665504.5219	329.518	CTL	STD AHTD MON. STAMPED PN: 3 ASHDOWN
4	1683740.9244	665128.6460	330.303	CTL	STD AHTD MON. STAMPED PN: 4 ASHDOWN
100	1677307.5785	670743.6700	325.462	GPS	AHTD GPS MON 410002
101	1685845.8104	664566.6227	329.255	GPS	NGS BM MON X 303
900	1684649.3703	664845.8902	329.976	TBM	SQUARE CUT IN CA ASHDOWN
901	1684009.1061	665337.7011	329.191	TBM	SQ CUT IN CENTER OF HW ASHDOWN

-----  
\*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped  
\*(standard markings common to all caps), or as indicated  
(other markings indicated in the point description of the individual point).  
ALL DISTANCES ARE GROUND.  
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.  
A PROJECT CAF OF 0.9999230615 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.  
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.  
GRID DISTANCE = GROUND DISTANCE X CAF.  
GRID COORDINATES ARE STORED UNDER FILE NAME s030452gi.CTL  
HORIZONTAL DATUM: NAD 83 (1997)  
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE  
AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL  
IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.  
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:  
ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE  
DETERMINED FROM GPS CONTROL POINTS: AHTD GPS MON 410002 & NGS BM MON X 303  
CONVERGENCE ANGLE: 01 11 27 LEFT AT PN: 2 LT: N 33-40-11.45 LG: W 94-07-38.84  
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

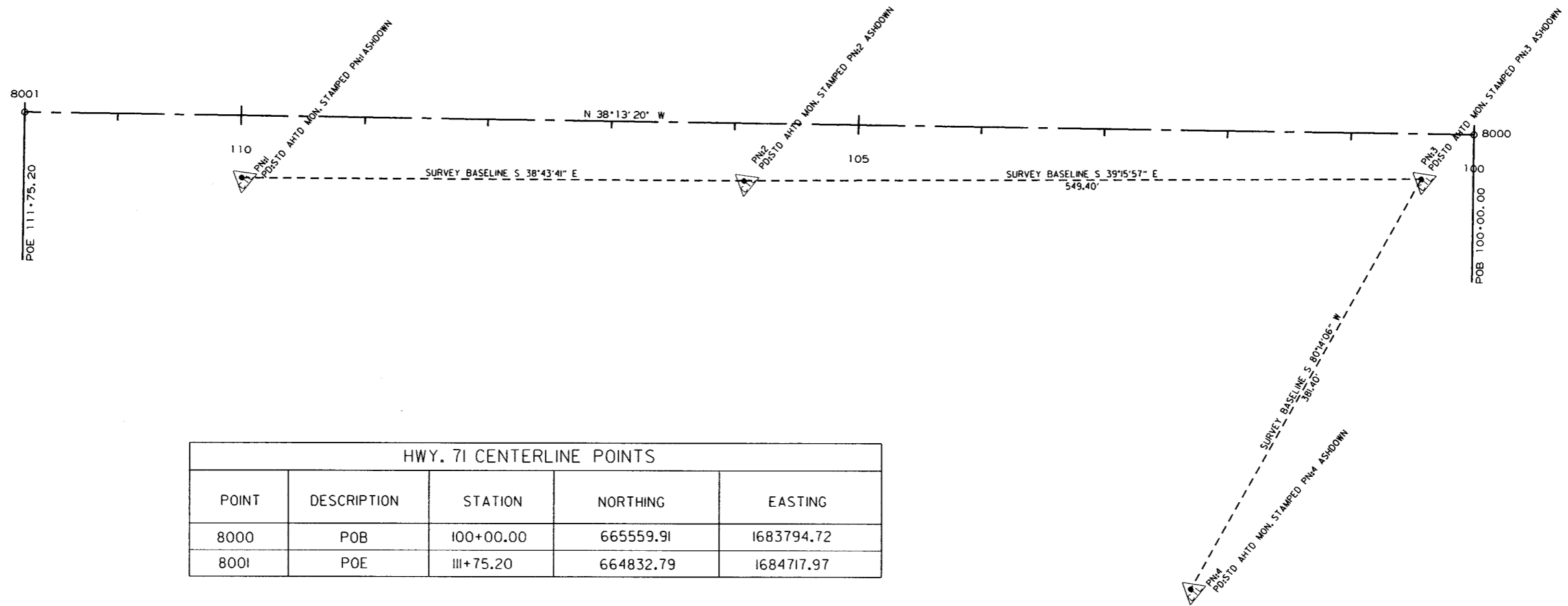
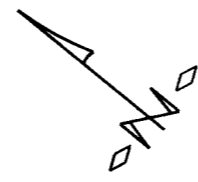
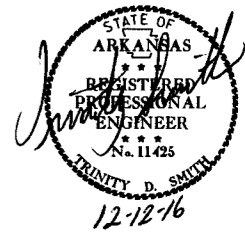
T030452.DGN 12/9/2016

DATE: 12/9/2016 FILE NAME: t030452.dgn

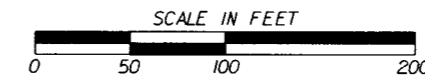
LOCATION: HWY. 71/Front St.  
CITY: ASHDOWN  
COUNTY: LITTLE RIVER  
DISTRICT: 3 SCALE: N/A DRAWN BY: CJS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							030452	8	23

2 SURVEY CONTROL DETAILS



HWY. 71 CENTERLINE POINTS				
POINT	DESCRIPTION	STATION	NORTHING	EASTING
8000	POB	100+00.00	665559.91	1683794.72
8001	POE	III+75.20	664832.79	1684717.97



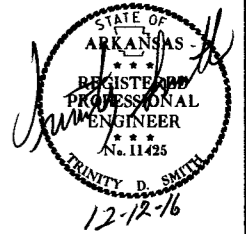
DATE: 12/9/2016 FILE NAME: t030452.dgn

LOCATION:	HWY. 71 / FRONT ST.
CITY:	ASHDOWN
COUNTY:	LITTLE RIVER
DISTRICT:	3
SCALE:	1" = 100'
DRAWN BY:	CJS



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 030452	9	23

② TRAFFIC SIGNAL QUANTITIES

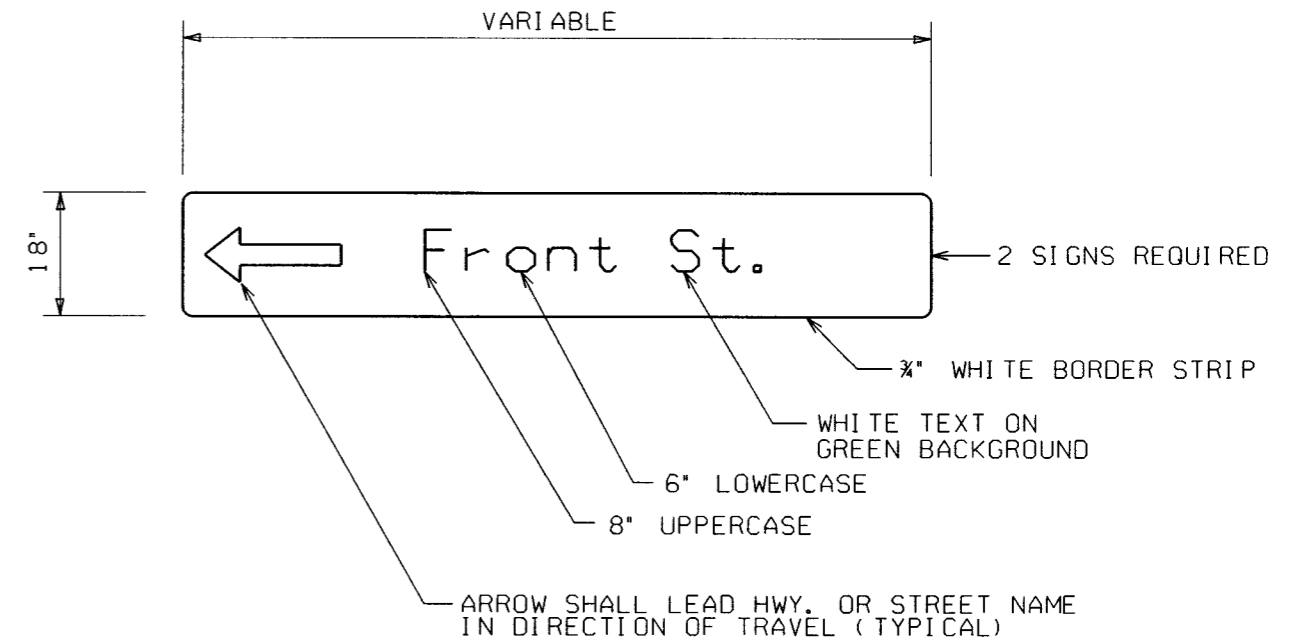


OVERHEAD STREET NAME  
MARKER STANDARD  
MAST ARM MOUNTED

TRAFFIC SIGNAL QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 701	ACTUATED CONTROLLER TS2-TYPE 2 (8 PHASES)	1	EACH
SP	BATTERY BACKUP SYSTEM	1	EACH
SP	FIBER OPTIC BLANK OUT SIGN	2	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (3 SECTION, 1 WAY)	6	EACH
SP & 706	TRAFFIC SIGNAL HEAD, LED, (4 SECTION, 1 WAY)	1	EACH
708	TRAFFIC SIGNAL CABLE (5C/14 A.W.G.)	229	LIN. FT.
708	TRAFFIC SIGNAL CABLE (7C/14 A.W.G.)	90	LIN. FT.
708	TRAFFIC SIGNAL CABLE (12C/14 A.W.G.)	300	LIN. FT.
708	TRAFFIC SIGNAL CABLE (20C/14 A.W.G.)	149	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/8 A.W.G., E.G.C.)	171	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (1C/12 A.W.G., E.G.C.)	56	LIN. FT.
SP	ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.)	22	LIN. FT.
SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES	80	LIN. FT.
709	GALVANIZED STEEL CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (1.25")	20	LIN. FT.
710	NON-METALLIC CONDUIT (3")	131	LIN. FT.
711	CONCRETE PULL BOX (TYPE 1 HD)	1	EACH
711	CONCRETE PULL BOX (TYPE 2 HD)	2	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (32')	1	EACH
714	TRAFFIC SIGNAL MAST ARM AND POLE WITH FOUNDATION (42'-32')	1	EACH
SP	LED LUMINAIRE ASSEMBLY	1	EACH
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	1	EACH
SP	18" STREET NAME SIGN	2	EACH
* SP & 733	VIDEO DETECTOR (CLR)	6	EACH
733	VIDEO CABLE	544	LIN. FT.
733	VIDEO MONITOR (CLR)	1	EACH
* SP & 733	VIDEO PROCESSOR, EDGE CARD (2 CAMERA)	4	EACH
SP & 733	VEHICLE DETECTOR RACK (16 CHANNEL)	1	EACH

\* ONE SPARE VIDEO DETECTOR AND ONE SPARE VIDEO PROCESSOR SHALL BE SUPPLIED.



NOTES:

1. REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 8 OR 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES. APPLICATION OF SHEETING IS CAUSE FOR REJECTION OF MATERIALS DUE TO WORKMANSHIP.

2. ALUMINUM SIGN BLANK SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL ALSO BE ANODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN WITH 1.5" CORNER RADIUS. PRIOR TO FABRICATION OF THE SIGNS, THE LAYOUT SHALL FIRST BE APPROVED BY AN AGENT OF THE CITY.

3. WHEN CROSSROAD HAS TWO NAMES, THE SIGN FOR THE CROSSROAD TO THE LEFT MAY BE INSTALLED ON THE BACKSIDE OF THE MAST ARM OF THE NEAR SIDE LEFT POLE. SEE STD. DETAIL SHEET FOR MORE INFORMATION FOR MOUNTING ON MAST ARM ASSEMBLY.

4. THE C 2000 STANDARD ALPHABET FONT SHALL BE USED FOR ALL LETTERS.

LOCATION: HWY. 71 / FRONT ST.  
CITY: ASHDOWN  
COUNTY: LITTLE RIVER  
DISTRICT: 3 SCALE: N/A DRAWN BY: CJS

DATE: 12/9/2016 FILE NAME: t030452.dgn