

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 100950

FEDERAL AID PROJECT NO. HSIP-0016(67)

HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)

STATE HIGHWAY 158 & 163 SECTION 5 & 5

IN CRAIGHEAD COUNTY

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.

ARKANSAS DEPARTMENT OF TRANSPORTATION

February 20, 2018

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 100950
Hwy. 158/Hwy. 163 Inters. Safety Impvts. (S)
Routes 163 & 158 Sections 5 & 5
Craighead County

The Geotechnical section has reviewed the proposed cross-sections and offers the following recommendations.

The proposed 3:1 cut slopes are acceptable as shown.

The maximum embankment height is approximately 7 feet. The embankment will extend into ditches beside the road, which based on seasonal conditions may contain water. It is recommended that an "as directed" quantity of 400 cubic yards of Unclassified Excavation and Compacted Embankment be added to the plans for undercut. Locally available unspecified material may be used for backfill and embankment construction. The proposed 3:1 slope configurations are acceptable as shown.


Michael C. Benson
Materials Engineer

MCB:pt:bjj
cc: G. C. File

ARKANSAS DEPARTMENT OF TRANSPORTATION

July 6, 2017

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 100950
Hwy. 158/Hwy. 163 Inters. Safety Impvts. (S)
Routes 163 & 158 Sections 5 & 5
Craighead County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of constructing a roundabout at the intersection of Highway 158 and Highway 163. Samples were obtained in the existing travel lanes and ditch line. There were no paved shoulders within the project limits.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of moderately plasticity sandy clay. Isolated locations of highly plastic clay were encountered within the project limits. Cross sections are not currently available, but it is assumed the construction grade line will closely match that of the existing roadway. The subgrade soils are expected to provide a stable working platform with conventional processing, if the weather is favorable during construction. If embankment is to be placed in the existing ditch line, all soft unstable organic material should be undercut (anticipated to be no more than 2 feet) prior to construction.

Additional earthwork recommendations will be made upon request when plans are further developed and cross sections are available.

Listed below is the additional information requested for use in developing the plans:

1. The Qualified Products List (QPL) indicates that Aggregate Base Course (Class CL-7) is available from commercial producers located in the vicinity Powhatan.

2. Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.2	94.8
Binder Course	4.1	95.9
Base Course	3.9	96.1


Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
District 10 Engineer
System Information and Research Div.
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE - 06/15/2017
JOB NUMBER - 100950

SEQUENCE NO. - 1
MATERIAL CODE - SSRV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 16
DISTRICT NO. - 10

JOB NAME - HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB LESS THAN 5

RESILIENT MODULUS
STA. 050+00 5619

REMARKS -

AASHTO TESTS : T190

JOB: 100950

Arkansas State Highway Transportation Department

JOB NAME: HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)

Materials Division

COUNTY NO. 16 DATE TESTED 6/6/2017

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	S I E V E S					L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				#4	#10	#40	#80	#200					
050+00	20 RT	0-5	BROWN	100				93	38	19	A-6(18)	RV399	
050+00	06 RT	0-5	BROWN	90	87	80	75	72	32	16	A-6(9)	S391	38
050+00	18 RT	0-5	BROWN	94	89	84	80	75	43	25	A-7-6(18)	S392	37.5
055+00	06 LT	0-5	BR/GR	82	71	64	61	57	30	13	A-6(5)	S393	37.5
055+00	18 LT	0-5	BROWN	97	93	83	77	75	34	15	A-6(10)	S394	36.7
108+00	06 RT	0-5	BR/GR	97	96	94	88	86	40	25	A-6(21)	S395	36.8
108+00	18 RT	0-5	BR/GR	99	99	96	84	79	32	16	A-6(11)	S396	36.8
115+00	06 LT	0-5	BROWN	96	94	91	88	85	34	17	A-6(13)	S397	38.4
115+00	18 LT	0-5	BROWN	100				94	36	15	A-6(15)	S398	37.5

comments:

Monday, June 19, 2017

JOB: 100950

Arkansas State Highway Transportation Department

DATE TESTED

JOB NAME: HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)

Materials Division

6/6/2017

COUNTY NO. 16

Michael Benson, Materials Engineer

STA.# LOC.

PAVEMENT SOUNDINGS

050+00	06 RT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		2.5	2.0	1.0	7.0
050+00	18 RT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		---	---	---	---
055+00	06 LT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		3.0	3.0	---	7.0
055+00	18 LT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		---	---	---	---
108+00	06 RT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		4.0XW	---	---	6.0
108+00	18 RT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		---	---	---	---
115+00	06 LT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		2.5	---	---	5.0
115+00	18 LT	ACHMSC	SAND ASPHALT	ASPHALT TREATED BA	AGG BASE CRS CL-7
		---	---	---	---

Comments:

Monday, June 19, 2017

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	100950	Material Code	SSRVPS
Date Sampled:	5/17/17	Station No.:	050+00
Date Tested:	June 13, 2017	Location:	20RT
Name of Project:	HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	THORNTON/TAYLOR		Depth: 0-5
Lab No.:	20171670	AASHTO Class:	A-6(18)
Sample ID:	RV399	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.95
Middle	3.95
Bottom	3.94
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.02
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.02
Initial Area, Ao (sq. in):	12.16
Initial Volume, AoLo (cu. in):	97.52

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3064.10
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4. Soil Properties:

Optimum Moisture Content (%):	18.2
Maximum Dry Density (pcf):	102.8
95% of MDD (pcf):	97.7
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3064.10
Compaction Moisture content (%):	18.2
Compaction Wet Density (pcf):	119.72
Compaction Dry Density (pcf):	101.29
Moisture Content After Mr Test (%):	18.5

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable): #VALUE!

7. Resilient Modulus, Mr: 10045(Sc)^{-0.33772}(S3)^{0.22727}

8. Comments _____

9. Tested By: GW **Date:** June 13, 2017

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 100950 **Material Code** SSRVPS
Date Sampled: 5/17/17 **Station No.:** 050+00
Date Tested: June 13, 2017 **Location:** 20RT
Name of Project: HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)
County: Code: 16 **Name:** CRAIGHEAD
Sampled By: THORNTON/TAYLOR **Depth:** 0-5
Lab No.: 20171670 **AASHTO Class:** A-6(18)
Sample ID: RV399 **Material Type (1 or 2):** 2
LATTITUDE: LONGITUDE:

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load	Actual Applied Cyclic Load	Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
DESIGNATION	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.3	22.6	2.7	2.1	1.9	0.2	0.00125	0.00016	11,863
Sequence 2	6.0	4.0	47.5	44.8	2.7	3.9	3.7	0.2	0.00275	0.00034	10,750
Sequence 3	6.0	6.0	70.0	66.4	3.6	5.8	5.5	0.3	0.00476	0.00059	9,198
Sequence 4	6.0	8.0	92.6	86.6	6.0	7.6	7.1	0.5	0.00744	0.00093	7,678
Sequence 5	6.0	10.0	114.5	106.0	8.4	9.4	8.7	0.7	0.01041	0.00130	6,721
Sequence 6	4.0	2.0	25.3	22.5	2.7	2.1	1.9	0.2	0.00142	0.00018	10,501
Sequence 7	4.0	4.0	47.1	44.3	2.7	3.9	3.6	0.2	0.00322	0.00040	9,079
Sequence 8	4.0	6.0	68.2	65.4	2.8	5.6	5.4	0.2	0.00547	0.00068	7,886
Sequence 9	4.0	8.0	91.0	85.9	5.1	7.5	7.1	0.4	0.00808	0.00101	7,012
Sequence 10	4.0	10.0	113.4	105.8	7.5	9.3	8.7	0.6	0.01102	0.00137	6,337
Sequence 11	2.0	2.0	25.1	22.4	2.8	2.1	1.8	0.2	0.00159	0.00020	9,278
Sequence 12	2.0	4.0	46.7	44.0	2.7	3.8	3.6	0.2	0.00364	0.00045	7,956
Sequence 13	2.0	6.0	67.3	64.5	2.8	5.5	5.3	0.2	0.00618	0.00077	6,892
Sequence 14	2.0	8.0	88.7	84.4	4.3	7.3	6.9	0.4	0.00907	0.00113	6,140
Sequence 15	2.0	10.0	110.8	104.1	6.7	9.1	8.6	0.6	0.01222	0.00152	5,619

TESTED BY _____ DATE June 13, 2017
 REVIEWED BY _____ DATE _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	100950	Material Code	SSRVPS
Date Sampled:	5/17/17	Station No.:	050+00
Date Tested:	June 13, 2017	Location:	20RT
Name of Project:	HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	THORNTON/TAYLOR	Depth:	0-5
Lab No.:	20171670	AASHTO Class:	A-6(18)
Sample ID:	RV399	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

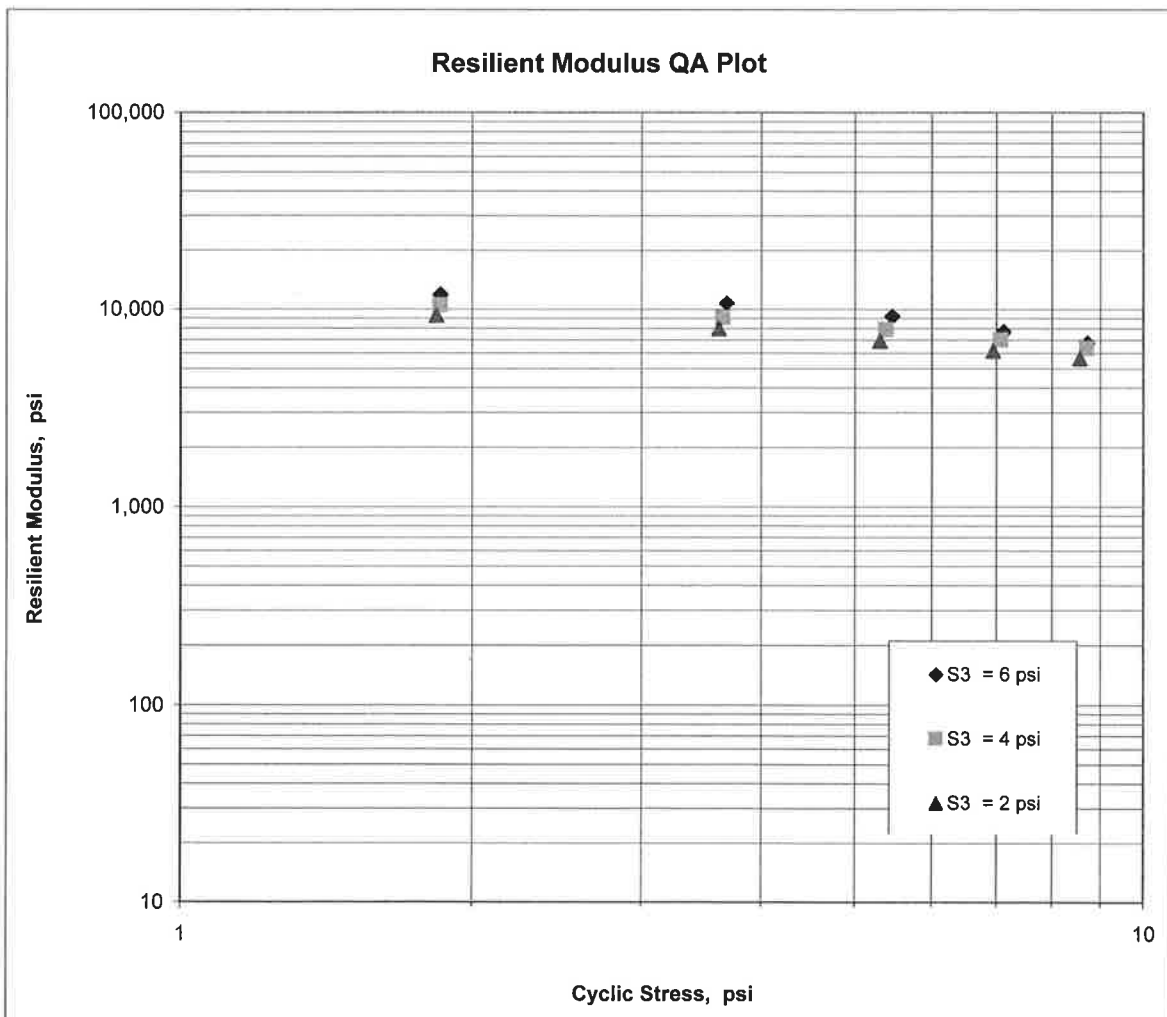
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = \frac{10,045}{}$$

$$K_2 = \frac{-0.33772}{}$$

$$K_5 = \frac{0.22727}{}$$

$$R^2 = \frac{0.95}{}$$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/19/17 SEQUENCE NO. - 1
JOB NUMBER - 100950 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 16
SUPPLIER NAME - STATE DISTRICT NO. - 10
NAME OF PROJECT - HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CRAIGHEAD COUNTY DATE SAMPLED - 05/17/17
SAMPLED BY - THORNTON/TAYLOR DATE RECEIVED - 05/22/17
SAMPLE FROM - TEST HOLE DATE TESTED - 06/06/17
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20171662	-	20171663	-	20171664	
SAMPLE ID	-	S391	-	S392	-	S393	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	050+00	-	050+00	-	055+00	
LOCATION	-	06 RT	-	18 RT	-	06 LT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	BROWN	-	BROWN	-	BR/GR	
MAT'L TYPE	-		-		-		
LATITUDE DEG-MIN-SEC	-	35 44 53.40	-	35 44 53.40	-	35 44 58.20	
LONGITUDE DEG-MIN-SEC	-	90 39 57.50	-	90 39 57.40	-	90 39 57.70	
% PASSING	2	IN.	-		-		
	1 1/2	IN.	-		-		
	3/4	IN.	-		-	100	
	3/8	IN.	-	100	-	99	
	NO. 4	-	90	-	94	-	82
	NO. 10	-	87	-	89	-	71
	NO. 40	-	80	-	84	-	64
	NO. 80	-	75	-	80	-	61
	NO. 200	-	72	-	75	-	57
LIQUID LIMIT	-	32	-	43	-	30	
PLASTICITY INDEX	-	16	-	25	-	13	
AASHTO SOIL	-	A-6(9)	-	A-7-6(18)	-	A-6(5)	
UNIFIED SOIL	-		-		-		
% MOISTURE CONTENT	-	38.0	-	37.5	-	37.5	
ACHMSC	(IN)	-	2.5	-	---	-	3.0
SAND ASPHALT	(IN)	-	2.0	-	---	-	3.0
ASPHALT TREATED BASE	(IN)	-	1.0	-	---	-	---
AGG BASE CRS CL-7	(IN)	-	7.0	-	---	-	7.0

REMARKS -

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/19/17 SEQUENCE NO. - 2
JOB NUMBER - 100950 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 16
SUPPLIER NAME - STATE DISTRICT NO. - 10
NAME OF PROJECT - HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CRAIGHEAD COUNTY DATE SAMPLED - 05/17/17
SAMPLED BY - THORNTON/TAYLOR DATE RECEIVED - 05/22/17
SAMPLE FROM - TEST HOLE DATE TESTED - 06/06/17
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20171665	20171666	20171667
SAMPLE ID	S394	S395	S396
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	055+00	108+00	108+00
LOCATION	18 LT	06 RT	18 RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 44 58.20	35 44 55.40	35 44 55.30
LONGITUDE DEG-MIN-SEC	90 39 57.70	90 40 2.40	90 40 2.40
% PASSING			
2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	100
NO. 4	97	97	99
NO. 10	93	96	99
NO. 40	83	94	96
NO. 80	77	88	84
NO. 200	75	86	79
LIQUID LIMIT	34	40	32
PLASTICITY INDEX	15	25	16
AASHTO SOIL	A-6(10)	A-6(21)	A-6(11)
UNIFIED SOIL			
% MOISTURE CONTENT	36.7	36.8	36.8
ACHMSC (IN)	---	4.0XW	---
SAND ASPHALT (IN)	---	---	---
ASPHALT TREATED BASE (IN)	---	---	---
AGG BASE CRS CL-7 (IN)	---	6.0	---

REMARKS - X=STRIPPED, W=MULTIPLE LAYERS

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/19/17 SEQUENCE NO. - 3
 JOB NUMBER - 100950 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 16
 SUPPLIER NAME - STATE DISTRICT NO. - 10
 NAME OF PROJECT - HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CRAIGHEAD COUNTY DATE SAMPLED - 05/17/17
 SAMPLED BY - THORNTON/TAYLOR DATE RECEIVED - 05/22/17
 SAMPLE FROM - TEST HOLE DATE TESTED - 06/06/17
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20171668	-	20171669	-
SAMPLE ID	-	S397	-	S398	-
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-
STATION	-	115+00	-	115+00	-
LOCATION	-	06 LT	-	18 LT	-
DEPTH IN FEET	-	0-5	-	0-5	-
MAT'L COLOR	-	BROWN	-	BROWN	-
MAT'L TYPE	-		-		-
LATITUDE DEG-MIN-SEC	-	35 44 55.60	-	35 44 55.70	-
LONGITUDE DEG-MIN-SEC	-	90 39 54.00	-	90 39 54.00	-
% PASSING					
	2	IN.	-		-
	1 1/2	IN.	-		-
	3/4	IN.	-	100	-
	3/8	IN.	-	99	-
	NO. 4		-	96	-
	NO. 10		-	94	-
	NO. 40		-	91	-
	NO. 80		-	88	-
	NO. 200		-	85	-
			-	94	-
LIQUID LIMIT	-	34	-	36	-
PLASTICITY INDEX	-	17	-	15	-
AASHTO SOIL	-	A-6(13)	-	A-6(15)	-
UNIFIED SOIL	-		-		-
% MOISTURE CONTENT	-	38.4	-	37.5	-
ACHMSC (IN)	-	2.5	-	---	-
SAND ASPHALT (IN)	-	---	-	---	-
ASPHALT TREATED BASE (IN)	-	---	-	---	-
AGG BASE CRS CL-7 (IN)	-	5.0	-	---	-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-

REMARKS -

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-
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-
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AASHTO TESTS : T24 T88 T89 T90 T265

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/06/17	SEQUENCE NO.	- 1
JOB NUMBER	- 100950	MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 16
SUPPLIER NAME	- STATE	DISTRICT NO.	- 10
NAME OF PROJECT	- HWY. 158/HWY. 163 INTERS. SAFETY IMPVTS. (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 05/17/17
LOCATION	- CRAIGHEAD COUNTY	DATE RECEIVED	- 05/22/17
SAMPLED BY	- THORNTON/TAYLOR	DATE TESTED	- 06/06/17
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	- 20171670	-	-
SAMPLE ID	- RV399	-	-
TEST STATUS	- INFORMATION ONLY	-	-
STATION	- 050+00	-	-
LOCATION	- 20 RT	-	-
DEPTH IN FEET	- 0-5	-	-
MAT'L COLOR	- BROWN	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 44 53.40	-	-
LONGITUDE DEG-MIN-SEC	- 90 39 57.40	-	-
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	-	-
	NO. 4	- 100	-
	NO. 10	-	-
	NO. 40	-	-
	NO. 80	-	-
	NO. 200	- 93	-
LIQUID LIMIT	- 38	-	-
PLASTICITY INDEX	- 19	-	-
AASHTO SOIL	- A-6(18)	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS -