

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. CA0706

FEDERAL AID PROJECT NO. ACNHPP-0070(36)

AIRPORT DR. - HWY. 82B (WIDENING) (S)

STATE HIGHWAY 82 SECTION 5

IN _____ UNION _____ 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 STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

August 4, 2016

TO: Mr. Rick Ellis, Bridge Engineer

SUBJECT: Job No. CA0706
Airport Dr. – Hwy. 82B (Widening) (S)
Route 82 Section 5
Union County

Transmitted herewith are a brief summary of the geology and site conditions, D50 analysis test results, and the logs of the borings conducted for the structures and approaches of the above referenced project. The samples obtained by the Standard Penetration Tests were brought to the laboratory and visually classified by experienced lab personnel to confirm the field identifications.

Preliminary design submitted by Bridge Division indicates that all bents will be founded on piling. The intermediate bent footings were inaccessible due to the steep slope and high water present during drilling. Subsurface conditions do not vary widely across the site.

A slope stability analysis was performed for this project, utilizing 2:1 bridge end slopes. Seismic analysis included a coefficient of horizontal acceleration of 0.093 as provided by Bridge Design. This configuration provides for a satisfactory Factor of Safety for seismic and static conditions.

If you have any questions concerning these recommendations, please contact the Geotechnical Section.


Michael C. Benson
Materials Engineer

MCB:rpt:mlg
cc: State Construction Engineer - Master File Copy
District 7 Engineer
G.C. File

GEOLOGY AND SITE CONDITIONS

Job No. CA0706

Airport Dr. – Hwy. 82B (Widening) (S)

Union County

Route 82 Section 5

Site Conditions

The existing Route 82 bridge is a 3 span bridge that crosses Cornie Bayou. The bridge is constructed of concrete cast-in-place decking supported by octagonal trestle pilings with concrete caps. There are remains of timber pilings under the bridge from a previous structure. There are concrete endwalls at both ends of the bridge with additional timber endwalls, downslope from the west bridge end, supporting riprap for erosion control. The guardrails are steel leading up to the bridge with concrete posts and steel tubing crossing the bridge. Overhead power lines, underground fiber optic lines, and an underground gas line all parallel the left side of the bridge. Cornie Bayou has a small water shed that runs from north to south. Both sides of the bridge are moderately vegetated and residents exist to the left and right of the project alignment.

Site Geology

The project is located in Eocene Claiborne Deposits (map symbol Tc). The Claiborne is composed of medium to very fine-grained sands, silts, and silty clays. The sands tend to be light to dark-gray, white, brown, or red, depending on the degree of weathering. The silts and clays are light to dark-gray and sometimes variegated. Intervals enriched in carbonaceous material are dark-brown to black. Silts in the Claiborne are usually clayey, the clays are normally silty or sandy, and lignite beds are also common in this formation. The deposits recovered at the job site most likely represents the Cockfield Formation of the Claiborne Group, which is composed of sand, silt, carbonaceous clay, and lignite. The thickness of the Claiborne ranges from a thin edge to 1,500 feet.

Subsurface Conditions

Based on the results of the borings, the subsurface stratigraphy may be generalized as follows:

0 to 25 Feet*: Moist, loose to medium dense, light gray **sand**.

25 to 100 Feet: Moist, very stiff to very hard, light gray **sandy clay** to moist, very dense, light gray **clayey sand**.

100 to 100.1 Feet: **Cemented Sand**.

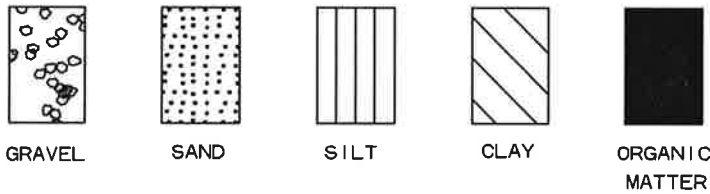
* Water was encountered at approximately 8.9 feet

**D₅₀ AGGREGATE ANALYSIS
FOR SCOUR CALCULATIONS**

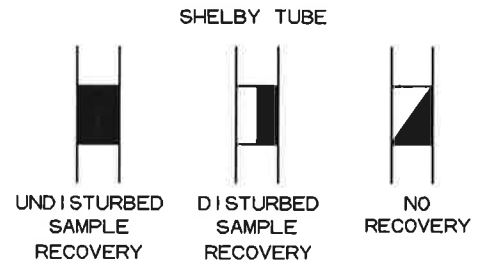
Job No. CA0706					
Creek Name	Station	Sample Type	Location	Depth (FT)	Aggregate Size (D50) (IN)
Cornie Bayou	196+10	Creek Bank	10' LT of C.L.	N/A	0.0035

LEGEND

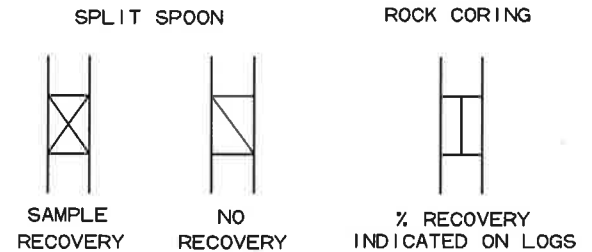
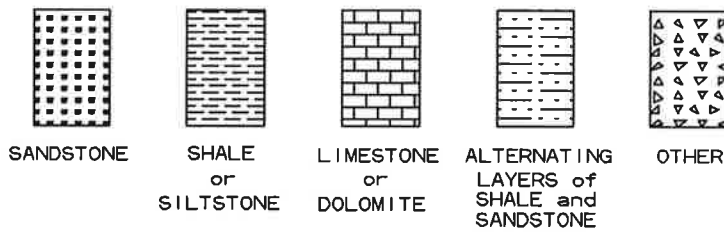
SOIL TYPES (SHOWN IN SYMBOL COLUMN) (PREDOMINANT TYPE SHOWN HEAVY)



SAMPLER TYPES (SHOWN IN SAMPLE COLUMN)



ROCK TYPES (SHOWN IN SYMBOL COLUMN)



TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANULAR SOIL		CLAY		CLAY-SHALE		SHALE	
*N ^o Value	Density	*N ^o Value	Consistency	*N ^o Value	Consistency	*N ^o Value	Consistency
0-4	Very Loose	0-1	Very Soft	0-1	Very Soft		
5-10	Loose	2-4	Soft	2-4	Soft	31-60	Soft
11-30	Medium Dense	5-8	Medium Stiff	5-8	Medium Stiff	Over 60	
31-50	Dense	9-15	Stiff	9-15	Stiff	More than 2'	
Over 50	Very Dense	16-30	Very Stiff	16-30	Very Stiff	Penetration	
		31-60	Hard	31-60	Hard	in 60 Blows	Medium Hard
		Over 60	Very Hard	Over 60	Very Hard	Less than 2'	
						Penetration	
						in 60 Blows	Hard

1. Ground water elevations indicated on boring logs represent ground water elevations at date or time shown on boring log. Absence of water surface implies that no ground water data is available but does not necessarily mean that ground water will not be encountered at locations or within the vertical reaches of these borings.
2. Borings represent subsurface conditions at their respective locations for their respective depths. Variations in conditions between or adjacent to boring locations may be encountered.
3. Terms used for describing soils according to their texture or grain size distribution are in accordance with the Unified Soil Classification System.

Standard Penetration Test – Driving a 2.0” O.D., 1-3/8” I.D. sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and performing the test are recorded for each 6 inches of penetration on the drill log. The field “N” Value (N_f) can be obtained by

adding the bottom two numbers for example: $\frac{6}{8-9} \Rightarrow 8+9 = 17 \text{ blows/ft}$. The “N” Value corrected to 60%

efficiency (N_{60}) can be obtained by multiplying N_f by the hammer correction factor published on the boring log.

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 1
PAGE 1 OF 3

JOB NO. CA0706 Union County
JOB NAME: Airport Dr. - Hwy. 82B (Widening)(S)
Route 82 Section 5
STATION: 195+68.5
LOCATION: 8' Left of Construction Centerline
LOGGED BY: Coty Campbell

DATE: July 5, 2016
TYPE OF DRILLING:
Hollow Stem Auger - Rotary Wash
EQUIPMENT: CME 750
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 100.1

DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R Q D
			SURFACE ELEVATION: 204.3									
5	[Dotted Pattern]	X	Moist, Very Loose, Light Gray Sand							1 2-2		
10	[Vertical Lines]	X	Moist, Medium Dense, Light Gray Silty Sand							4 6-7		
15	[Dotted Pattern]	X	Moist, Medium Dense, Light Gray Sand with Some Clay							4 6-7		
20	[Dotted Pattern]	X	Moist, Dense, Light Gray Sand							8 16-17		
25	[Diagonal Lines]	X	Moist, Very Stiff, Light Gray Sandy Clay							10 13-17		
30	[Diagonal Lines]	X								5 10-20		
35	[Diagonal Lines]	X										

REMARKS:

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 1
PAGE 2 OF 3

JOB NO. CA0706 Union County
JOB NAME: Airport Dr. - Hwy. 82B (Widening)(S)
Route 82 Section 5
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Hollow Stem Auger - Rotary Wash
EQUIPMENT: CME 750
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 100.1

DEPTH FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R Q D
			SURFACE ELEVATION: 204.3									
40		X	Moist, Very Dense, Light Gray Sand							10 30-35		
45		X	Moist, Dense, Light Gray Clayey Sand							10 18-28		
50		X	Moist, Very Dense, Light Gray Sand							15 30-36		
55		X	Moist, Very Dense, Light Gray Sand							15 21-60 (10")		
60		X	Moist, Very Hard, Light Gray Sandy Clay							19 29-36		
65		X	Moist, Very Dense, Light Gray Clayey Sand							16 22-32		
70		X	Moist, Very Dense, Light Gray Sand							6 38-47		

REMARKS:

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 1
PAGE 3 OF 3

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DEPTH FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R Q D
			SURFACE ELEVATION: 204.3									
75			Moist, Very Hard, Light Gray Sandy Clay							19 22-39		
80			Moist, Hard, Light Gray Clay with Some Sand							19 22-44		
85			Moist, Hard, Light Gray Sandy Clay							15 21-27		
90			Moist, Very Hard, Light Gray Clay with Some Sand							23 24-26		
95			Moist, Hard, Light Gray Sandy Clay with Some Lignitic Clay							17 31-34		
100			Boring Terminated							60 (0")		
105												

REMARKS:

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2
PAGE 1 OF 3

JOB NO. CA0706 Union County
JOB NAME: Airport Dr. - Hwy. 82B (Widening)(S)
Route 82 Section 5
STATION: 196+77.5
LOCATION: 17' Left of Construction Centerline
LOGGED BY: Coty Cambell and Paul Campbell

DATE: June 28, 2016
TYPE OF DRILLING:
Hollow Stem Auger - Rotary Wash
EQUIPMENT: CME 750
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 100.1

DEPTH FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R Q D
			SURFACE ELEVATION: 202.2									
5			Moist, Loose, Light Gray Sand							$\frac{3}{3-4}$		
10			Wet, Loose, Light Gray Sand *							$\frac{2}{4-6}$		
15			Moist, Medium Dense, Light Gray Sand with Some Clay							$\frac{4}{6-10}$		
20			Moist, Medium Dense, Light Gray Sand							$\frac{5}{11-14}$		
25			Moist, Very Stiff, Light Gray Sandy Clay							$\frac{5}{6-22}$		
30			Moist, Very Dense, Light Gray Silty Sand							$\frac{13}{23-31}$		
35												

REMARKS: * Encountered water at 8.9' below ground level.

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2
PAGE 2 OF 3

JOB NO. CA0706 Union County
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Route 82 Section 5
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LOGGED BY: Coty Cambell and Paul Campbell

DATE: June 28, 2016
TYPE OF DRILLING:
Hollow Stem Auger - Rotary Wash
EQUIPMENT: CME 750
HAMMER CORRECTION FACTOR: 1.23

COMPLETION DEPTH: 100.1

DEPTH FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R O D
			SURFACE ELEVATION: 202.2									
40		X	Moist, Very Dense, Light Gray Sand							22 31-43		
45		X	Moist, Very Dense, Light Gray Clayey Sand							10 20-35		
50		X	Moist, Very Dense, Light Gray Sand with Trace Gravel							14 23-29		
55		X	Moist, Hard, Light Gray Sandy Clay							16 18-30		
60		X	Moist, Very Dense, Light Gray Clayey Sand							17 25-46		
65		X	Moist, Very Hard, Light Gray Sandy Clay							17 34-41		
70		X	Moist, Hard, Light Gray Clay							20 21-24		

REMARKS: * Encountered water at 8.9' below ground level.

**ARKANSAS HWY. & TRANS. DEPARTMENT
MATERIALS DIVISION - GEOTECHNICAL SEC.**

BORING NO. 2
PAGE 3 OF 3

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DEPTH FT.	S Y M B O L	S A M P L E S	DESCRIPTION OF MATERIAL	SOIL GROUP	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS PER 6-IN.	% T C R	% R O D
			SURFACE ELEVATION: 202.2									
75			Moist, Hard, Light Gray Clay with Some Sand							12 25-30		
80			Moist, Very Dense, Light Gray Sand with Clay							15 21-31		
85			Moist, Hard, Light Gray Clay							18 24-36		
90			Moist, Hard, Light Gray Sandy Clay							14 22-24		
95										17 24-30		
											14 19-34	
100			Cemented Sand							60 (1")		
			Boring Terminated									
105												

REMARKS: * Encountered water at 8.9' below ground level.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

October 29, 2015

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: CA0706
Airport Dr. – Hwy. 82B (Widening) (S)
Route 82 Section 5
Union County

Transmitted herewith are the requested Soil Survey, Strength Data, and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 6.0 miles of Highway 82 to 4 lanes with a painted median. Samples were obtained in the existing travel lanes, shoulder and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of non-plastic sands to moderately plastic sandy clay. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction.

The preliminary cross sections indicate that the maximum embankment height is approximately 12 feet. All soft unstable organic material should be undercut prior to embankment construction, anticipated to be no more than two feet. The embankment may be constructed using locally available material with a 3:1 slope configuration.

The proposed cut slopes are acceptable as shown in the currently available cross sections.

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 of Malvern.
2. Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.2	94.8
Binder Course	4.4	95.6
Base Course	4.0	96.0


Michael C. Benson
Materials Engineer

MCB:pt:bjj

Attachment

cc: State Constr. Eng. – Master File Copy
District 7 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 - 10/23/2015
JOB NUMBER - CA0706

SEQUENCE NO. - 2
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 70
DISTRICT NO. - 07

JOB NAME - AIRPORT DR. - HWY.82B (WIDENING) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 9

RESILIENT MODULUS	
STA.123+00	10670
STA.203+00	8366
STA.259+00	12150
STA.379.00	8720

REMARKS -
-

AASHTO TESTS : T190

JOB: CA0706
JOB NAME: HOPE 6TH ST. RECONSTRUCTION (S)

Arkansas State Highway Transportation Department
Materials Division
Michael Benson, Materials Engineer

DATE TESTED
 10/9/2015

COUNTY NO. 70

STA.# LOC

PAVEMENT SOUNDINGS

099+00	15' RT	ACHMSC	ACHMSC	PCCP	AGG.BASE CRS. CL7
		3.5W	--	--	7.0
099+00	24' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		--	--	--	--
099+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.75W	3.5	5.5	--
107+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		12.5WX	4.0	6.0	7.0
107+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		11.0WX	--	--	--
107+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		--	--	--	--
115+00	18' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	AGG.BASE CRS. CL7
		4.0W	9.0W	8.0	--
115+00	27' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	AGG.BASE CRS. CL7
		3.5	9.25	--	--
115+00	37' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	AGG.BASE CRS. CL7
		--	--	--	--
123+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		12.0W	2.5	6.25	--
123+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		8.0W	--	--	5.0
123+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		--	--	--	--
131+00	18' RT	ACHMSC	ACHMBC		
		3.75W	10.25W		
131+00	27' RT	ACHMSC	ACHMBC		
		3.5	9.0W		
131+00	37' RT	ACHMSC	ACHMBC		
		--	--		
139+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		10.0WX	3.0	6.0	--
139+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
		6.0W	--	--	7.0

Comments: W=MULTIPLE LAYERS, X=STRIPPED

Tuesday, October 27, 2015

139+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
147+00	18' RT	ACHMSC 5.0	ACHMBC 8.0W		
147+00	27' RT	ACHMSC 3.5	ACHMBC 8.0W		
147+00	36' RT	ACHMSC	ACHMBC		
155+00	06' LT	ACHMSC 9.0WX	ACHMBC 5.0W	PCCP 6.0	AGG.BASE CRS. CL7
155+00	15' LT	ACHMSC 8.5W	ACHMBC	PCCP	AGG.BASE CRS. CL7
155+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
163+00	35' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	
163+00	27' RT	ACHMSC 4.0W	ACHMBC 9.0W	AGG.BASE CRS. CL7	
163+00	18' RT	ACHMSC 3.5WX	ACHMBC 9.5WX	AGG.BASE CRS. CL7	
171+00	15' LT	ACHMSC 7.5W	ACHMBC	PCCP	AGG.BASE CRS. CL7
171+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
171+00	06' LT	ACHMSC 13.25W	ACHMBC 3.5	PCCP 6.0	AGG.BASE CRS. CL7
179+00	06' RT	ACHMSC 8.0WX	ACHMBC 3.5	PCCP 6.0	AGG.BASE CRS. CL7
179+00	15' RT	ACHMSC 3.75	ACHMBC	PCCP	AGG.BASE CRS. CL7
179+00	27' RT	ACHMSC	ACHMBC	PCCP	AGG.BASE CRS. CL7
187+00	06' LT	ACHMSC 7.0W	ACHMBC 3.0	AGG.BASE CRS. CL7	
187+00	15' LT	ACHMSC 3.5W	ACHMBC 1.0	AGG.BASE CRS. CL7	
195+00	06' RT	ACHMSC	ACHMBC	AGG.BASE CRS. CL7	

Comments: W=MULTIPLE LAYERS, X=STRIPPED

195+00	15' RT	ACHMSC	5.0W	AGG. BASE CRS. CL7	5.0
203+00	27' LT	ACHMSC	--	AGG. BASE CRS. CL7	--
203+00	15' LT	ACHMSC	5.0W	AGG. BASE CRS. CL7	6.0
211+00	15' RT	ACHMSC	4.0W	ACHMBC	PCCP
211+00	27' RT	ACHMSC	--	ACHMBC	PCCP
219+00	06' LT	ACHMSC	7.5WX	ACHMBC	PCCP
219+00	15' LT	ACHMSC	4.0W	ASHMBC	PCCP
219+00	27' LT	ACHMSC	--	ASHMBC	PCCP
227+00	06' RT	ACHMSC	6.5W	ASHMBC	PCCP
227+00	15' RT	ACHMSC	5.0W	ACHMBC	PCCP
227+00	27' RT	ACHMSC	--	ACHMBC	PCCP
235+00	06' LT	ACHMSC	7.0W	ACHMBC	PCCP
235+00	15' LT	ACHMSC	4.5W	ACHMBC	PCCP
235+00	27' LT	ACHMSC	--	ACHMBC	PCCP
243+00	25' RT	ACHMSC	--	ACHMBC	PCCP
243+00	15' RT	ACHMSC	5.0W	ACHMBC	PCCP
243+00	06' RT	ACHMSC	10.0WX	ACHMBC	PCCP
251+00	06' LT	ACHMSC	9.5W	ACHMBC	PCCP
251+00	15' LT	ACHMSC	5.0W	ACHMBC	PCCP

Comments: W=MULTIPLE LAYERS, X=STRIPPED

251+00	25' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		--	--	--	--
259+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		8.25WX	4.0X	6.25	--
259+00	15' RT	ACHMSC	ACHMBC	AGG. BASE CRS. CL7	6.0
		5.5W	--	--	--
259+00	27' RT	ACHMSC	ACHMBC	AGG. BASE CRS. CL7	--
		--	--	--	--
267+00	18' LT	ACHMSC	ACHMBC	AGG. BASE CRS. CL7	--
		12.0W	12.0W	--	--
267+00	27' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		5.0W	--	--	7.0
267+00	38' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		--	--	--	--
275+00	25' RT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		--	--	--	--
275+00	06' RT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		9.5WX	2.5WX	6.25	--
275+00	15' RT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		5.5W	--	--	6.0
283+00	27' LT	ACHMSC	AGG. BASE CRS. CL7	--	--
		--	--	--	--
283+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		7.5WX	4.25	6.0	--
283+00	15' LT	ACHMSC	AGG. BASE CRS. CL7	--	--
		7.25W	3.0	--	--
291+00	15' RT	ACHMSC	AGG. BASE CRS. CL7	--	--
		13.0W	--	--	--
291+00	27' RT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		--	--	--	--
299+00	06' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		7.5W	2.5X	6.0	--
299+00	15' LT	ACHMSC	ACHMBC	PCCP	AGG. BASE CRS. CL7
		4.5W	--	--	6.0
299+00	25' LT	ACHMSC	ACHMBC	--	--
		--	--	--	--
307+00	15' RT	ACHMSC	ACHMBC	--	--
		7.5WX	7.0WX	--	--

Comments: W=MULTIPLE LAYERS, X=STRIPPED

307+00	25' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
315+00	25' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
315+00	06' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
315+00	15' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
323+00	25' RT	ACHMSC	ASHMBC	ASHMBC	PCCP	AGG.BASE CRS. CL7
323+00	06' RT	ACHMSC	ASHMBC	ASHMBC	PCCP	AGG.BASE CRS. CL7
323+00	15' RT	ACHMSC	ASHMBC	ASHMBC	PCCP	AGG.BASE CRS. CL7
331+00	06' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
331+00	15' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
340+00	15' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
340+00	25' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
347+00	06' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
347+00	15' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
355+00	06' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
355+00	15' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
363+00	15' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
363+00	06' LT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
371+00	35' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7
371+00	18' RT	ACHMSC	ACHMBC	ACHMBC	PCCP	AGG.BASE CRS. CL7

Comments: W=MULTIPLE LAYERS, X=STRIPPED

371+00	27' RT	ACHMSC	5.25W	6.0	AGG. BASE CRS. CL7	
379+00	06' LT	ACHMSC	6.0W	2.5	ACHMBC	AGG. BASE CRS. CL7
379+00	15' LT	ACHMSC	2.0W	1.0	ACHMBC	AGG. BASE CRS. CL7
379+00	25' LT	ACHMSC	--	--	ACHMBC	AGG. BASE CRS. CL7
387+00	06' RT	ACHMSC	6.0W	3.0	ACHMBC	AGG. BASE CRS. CL7
387+00	15' RT	ACHMSC	1.5	1.5	ACHMBC	AGG. BASE CRS. CL7
395+00	06' LT	ACHMSC	7.0W	2.0	ASCMBC	AGG. BASE CRS. CL7
395+00	15' LT	ACHMSC	9.0W	--	ASCMBC	AGG. BASE CRS. CL7
403+00	25' RT	ACHMSC	--	--	AGG. BASE CRS. CL7	
403+00	06' RT	ACHMSC	7.0WX	1.5	ASCMBC	AGG. BASE CRS. CL7
403+00	15' RT	ACHMSC	2.0W	5.0	AGG. BASE CRS. CL7	

Comments: W=MULTIPLE LAYERS, X=STRIPPED

JOB: CA0706

Arkansas State Highway Transportation Department

JOB NAME: HOPE 6TH ST. RECONSTRUCTION (S)

Materials Division

COUNTY NO. 70 DATE TESTED 10/9/2015

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
123+00	25' LT	0-5	BROWN	99	96	95	94	71	22	06	A-4(2)	RV524	
203+00	27' LT	0-5	BROWN	96	94	93	90	85	29	12	A-6(9)	RV525	
259+00	27' RT	0-5	BROWN	100	99	99	98	87	28	09	A-4(7)	RV526	
379+00	25' LT	0-5	BROWN	95	94	94	92	53	29	13	A-6(4)	RV527	
099+00	06' RT	0-5	BR/GR	99	99	98	91	61	22	05	A-4(1)	S420	21.9
099+00	15' RT	0-5	BR/GR	97	96	92	68	46	ND	NP	A-4 (0)	S421	17.8
099+00	24' RT	0-5	BROWN	99	98	95	87	55	20	05	A-4 (0)	S422	17.4
107+00	06' LT	0-5	BR/GR	97	90	77	69	54	29	12	A-6 (4)	S423	32.1
107+00	15' LT	0-5	BR/GR	97	92	87	56	41	20	05	A-4 (0)	S424	20.9
107+00	25' LT	0-2Z	BROWN	83	67	57	44	28			NO TEST	S425	4
115+00	18' RT	0-5	GRAY	99	99	97	83	64	18	04	A-4 (0)	S426	21.2
115+00	27' RT	0-5	BR/GR	98	96	93	80	60	22	06	A-4(1)	S427	17.1
115+00	37' RT	0-5	BROWN	99	99	97	90	70	22	05	A-4(1)	S428	13
123+00	06' LT	0-5	BR/GR		100	99	95	77	25	08	A-4 (4)	S429	20.7
123+00	15' LT	0-5	GRAY	96	93	88	74	58	22	07	A-4 (1)	S430	23.9
123+00	25' LT	0-5	BROWN	99	99	97	92	73	28	11	A-6 (6)	S431	26.7
131+00	18' RT	0-5	BR/GR	98	98	95	86	57	25	08	A-4 (2)	S432	18
131+00	27' RT	0-5	BR/GR	97	94	91	76	49	24	08	A-4 (1)	S433	20
131+00	37' RT	0-5	BROWN	99	98	96	82	53	24	08	A-4 (1)	S434	18.7
139+00	06' LT	0-5	BROWN	99	99	99	90	63	21	05	A-4 (1)	S435	21
139+00	15' LT	0-5	BROWN	99	96	92	78	62	19	04	A-4 (0)	S436	17.5
139+00	25' LT	0-5	BROWN	99	97	96	87	66	26	09	A-4 (4)	S437	18.9
147+00	18' RT	0-5	BR/GR	99	99	98	87	51	28	09	A-4 (2)	S438	23.3
147+00	27' RT	0-5	BR/GR	99	97	93	80	52	29	11	A-6 (3)	S439	27
147+00	36' RT	0-5	BROWN	98	92	86	76	63	28	11	A-6 (4)	S440	22.5
155+00	06' LT	0-5	BROWN	97	93	83	75	42	ND	NP	A-4 (0)	S441	14.4

comments: W=MULTIPLE LAYERS, X=STRIPPED

Tuesday, October 27, 2015

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
155+00	15' LT	0-5	BR/GR	97	95	91	73	40	ND	NP	A-4 (0)	S442	12.2
155+00	25' LT	0-5	BROWN	98	95	92	77	45	ND	NP	A-4 (0)	S443	13.2
163+00	18' RT	0-5	BR/GR	99	98	95	77	48	ND	NP	A-4 (0)	S444	16.4
163+00	27' RT	0-5	BR/GR	98	96	94	82	59	18	02	A-4 (0)	S445	19
163+00	35' RT	0-5	BROWN	95	87	80	65	43	ND	NP	A-4 (0)	S446	7
171+00	06' LT	0-5	GRAY	99	97	94	89	57	18	03	A-4 (0)	S447	15.8
171+00	15' LT	0-5	GRAY	99	98	95	80	49	23	07	A-4 (1)	S448	15.6
171+00	25' LT	0-5	BROWN	88	84	81	72	45	ND	NP	A-4 (0)	S449	6.8
179+00	06' RT	0-5	BROWN	99	97	94	85	46	ND	NP	A-4 (0)	S450	10.9
179+00	15' RT	0-5	BROWN	99	97	95	73	45	ND	NP	A-4 (0)	S451	13
179+00	27' RT	0-5	BROWN	99	98	97	89	57	17	02	A-4 (0)	S452	8.4
187+00	06' LT	0-5	BROWN	93	89	83	72	49	21	05	A-4(0)	S453	16
187+00	15' LT	0-5	BROWN	99	99	97	77	52	16	01	A-4(0)	S454	12.5
195+00	06' RT	0-5	GRAY	97	95	92	87	59	ND	NP	A-4(0)	S455	14.8
195+00	15' RT	0-5	GRAY	97	96	94	84	61	18	03	A-4(0)	S456	19
203+00	15' LT	0-5	BROWN	97	94	90	79	70	29	17	A-6(9)	S457	23.3
203+00	27' LT	0-5	BROWN	100				97	58	37	A-7-6(40)	S458	30.2
211+00	15' RT	0-2Z	BROWN	95	92	89	71	43			NO TEST	S459	14.2
211+00	27' RT	0-5	BROWN	95	93	92	86	56	ND	NP	A-4(0)	S460	5.4
219+00	06' LT	0-5	BR/RD	92	87	82	78	55	23	05	A-4(0)	S461	19
219+00	15' LT	0-5	BR/RD	98	94	91	75	50	28	15	A-6(4)	S462	18.8
219+00	27' LT	0-5	BROWN	97	96	95	91	65	25	07	A-4(2)	S463	12.6
227+00	06' RT	0-5	GRAY	95	95	94	91	75	26	10	A-4(5)	S464	26.8
227+00	15' RT	0-5	GRAY	99	98	95	83	63	21	05	A-4(1)	S465	19.9
227+00	27' RT	0-5	BR/GR	99	98	95	89	78	29	15	A-6(9)	S466	22.1
235+00	06' LT	0-5	BROWN	98	97	95	92	75	24	09	A-4(4)	S467	22.8
235+00	15' LT	0-5	BR/GR	97	94	89	87	67	ND	NP	A-4(0)	S468	22.7
235+00	27' LT	0-5	BROWN	99	99	99	96	80	26	09	A-4(5)	S469	23.7

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	F	V	E					
243+00	06' RT	0-5	GRAY	93	91	91	89	68	24	07	A-4(2)	S470	23.2
243+00	15' RT	0-5	BR/GR	99	97	94	78	56	ND	NP	A-4(0)	S471	16.9
243+00	25' RT	0-5	BROWN	97	95	88	74	51	21	04	A-4(0)	S472	19.7
251+00	06' LT	0-5	RD/BR	99	98	95	92	65	26	09	A-4(3)	S473	21.5
251+00	15' LT	0-5	RD/BR	99	99	99	93	62	31	14	A-6(6)	S474	22.4
251+00	25' LT	0-5	BROWN	91	84	81	75	65	25	09	A-4(3)	S475	15.9
259+00	06' RT	0-5	BROWN	99	98	95	91	77	20	04	A-4(0)	S476	21.6
259+00	15' RT	0-5	BROWN	99	98	95	73	57	19	05	A-4(0)	S477	23
259+00	27' RT	0-5	BROWN	99	99	99	95	80	25	07	A-4(4)	S478	29.1
267+00	18' LT	0-5	BROWN	97	95	94	88	73	25	09	A-4(4)	S479	21.1
267+00	27' LT	0-5	BR/GR	99	99	98	93	79	22	07	A-4(3)	S480	20.8
267+00	38' LT	0-5	BR/GR	92	87	83	79	66	23	06	A-4(2)	S481	17.3
275+00	06' RT	0-5	BR/GR	100	99	99	97	69	25	10	A-4(4)	S482	20.6
275+00	15' RT	0-5	BROWN	99	98	97	84	56	ND	NP	A-4(0)	S483	19.1
275+00	25' RT	0-5	BROWN	98	96	94	90	57	21	02	A-4(0)	S484	14.2
283+00	06' LT	0-5	BR/GR	99	98	96	93	71	26	07	A-4(3)	S485	27.9
283+00	15' LT	0-5	BR/GR	97	95	95	79	61	19	04	A-4(0)	S486	22
283+00	27' LT	0-5	BR/GR	88	81	74	67	55	22	04	A-4(0)	S487	18.9
291+00	15' RT	0-5	BROWN	96	92	90	73	45	20	03	A-4(0)	S488	19.4
291+00	27' RT	0-5	BROWN	100	99	99	97	58	ND	NP	A-4(0)	S489	11.8
299+00	06' LT	0-5	BROWN	99	98	97	96	64	27	09	A-4(3)	S490	26.5
299+00	15' LT	0-5	BR/GR	96	95	93	80	55	19	04	A-4(0)	S491	21.4
299+00	25' LT	0-5	BROWN	100	97	93	89	52	25	07	A-4(1)	S492	16.2
307+00	15' RT	0-5	BR/GR	99	99	98	79	40	21	05	A-4(0)	S493	21.5
307+00	25' RT	0-5	BROWN	99	96	94	77	55	25	10	A-4(3)	S494	14.1
315+00	06' LT	0-5	BROWN	98	97	96	90	61	ND	NP	A-4(0)	S495	27.1
315+00	15' LT	0-5	BROWN	99	99	98	84	52	ND	NP	A-4(0)	S496	14.2
315+00	25' LT	0-5	BROWN	99	97	94	79	53	21	04	A-4(0)	S497	9.8

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
323+00	06' RT	0-5	BROWN	99	98	95	90	72	21	04	A-4(0)	S498	21
323+00	15' RT	0-5	BROWN	99	99	97	87	71	23	06	A-4(2)	S499	21.2
323+00	25' RT	0-5	BROWN	99	98	97	93	73	ND	NP	A-4(0)	S500	17.1
331+00	06' LT	0-5	BROWN	98	96	95	85	68	ND	NP	A-4(0)	S501	20.3
331+00	15' LT	0-5	BR/GR	99	99	97	95	81	27	11	A-4(0)	S502	23.7
340+00	15' RT	0-5	BROWN	93	90	87	79	56	22	05	A-4(0)	S503	15.8
340+00	25' RT	0-5	BROWN	99	99	97	93	64	ND	NP	A-4(0)	S504	10.3
347+00	06' LT	0-5	BR/GR	99	98	95	78	68	33	18	A-6(10)	S505	28
347+00	15' LT	0-5	BR/GR	98	92	83	75	68	32	19	A-6(10)	S506	28.3
355+00	06' RT	0-3.5	BROWN	91	86	80	56	37	ND	NP	A-4(0)	S507	17
355+00	15' RT	0-5	BROWN	95	89	85	59	42	ND	NP	A-4(0)	S508	17.4
363+00	06' LT	0-5	BROWN	91	87	83	51	32	21	04	A-2-4(0)	S509	11.6
363+00	15' LT	0-5	BR/GR	88	83	81	50	30	18	01	A-2-4(0)	S510	15.6
371+00	18' RT	0-5	BR/GR	81	74	67	54	35	23	05	A-2-4(0)	S511	21.4
371+00	27' RT	0-5	BR/GR	93	85	79	57	36	17	02	A-4(0)	S512	17.1
371+00	35' RT	0-5	BROWN	99	97	95	89	52	17	02	A-4(0)	S513	7.1
379+00	06' LT	0-5	BROWN	97	94	90	78	39	25	12	A-6(1)	S514	19.8
379+00	15' LT	0-5	BROWN	90	86	81	64	32	25	07	A-2-4(0)	S515	28.1
379+00	25' LT	0-5	BROWN	88	86	83	78	42	28	12	A-6(2)	S516	27.4
387+00	06' RT	0-5	BROWN	92	86	79	62	36	ND	NP	A-4(0)	S517	11.9
387+00	15' RT	0-5	BROWN	88	83	78	56	35	ND	NP	A-2-4(0)	S518	6.6
395+00	06' LT	0-4Z	BR/GR	65	51	38	26	12	ND	NP	A-1-B(0)	S519	19.4
395+00	15' LT	0-5	BROWN	94	91	89	54	37	ND	NP	A-4(0)	S520	18.6
403+00	06' RT	0-4Z	BROWN	87	81	75	53	31	ND	NP	A-2-4(0)	S521	20.4
403+00	15' RT	0-5	BR/GR	95	90	86	59	37	ND	NP	A-4(0)	S522	17.9
403+00	25' RT	0-5	BROWN	87	83	80	56	36	ND	NP	A-4(0)	S523	16.9

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

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/15/15	Station No.:	123+00
Date Tested:	October 15, 2015	Location:	25'LT
Name of Project:	AIRPORT DR. - HWY.82B (WIDENING)(S)		
County:	Code: 70	Name:	UNION
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153019	AASHTO Class:	A-4(2)
Sample ID:	RV524	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	3.97
Middle	3.97
Bottom	3.97
Average	3.97
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.03
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.03
Initial Area, Ao (sq. in):	12.30
Initial Volume, AoLo (cu. in):	98.75

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3240.50
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4. Soil Properties:

Optimum Moisture Content (%):	13.4
Maximum Dry Density (pcf):	112.5
95% of MDD (pcf):	106.9
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3240.50
Compaction Moisture content (%):	14.1
Compaction Wet Density (pcf):	125.03
Compaction Dry Density (pcf):	109.58
Moisture Content After Mr Test (%):	13.5

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

7. Resilient Modulus, Mr: 13390(Sc)^{-0.16420}(S3)^{0.22008}

8. Comments

9. Tested By: GW/DT **Date:** October 15, 2015

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

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

Job No. CA0706 **Material Code** SSRVPS
Date Sampled: 10/15/15 **Station No.:** 123+00
Date Tested: October 15, 2015 **Location:** 25'LT
Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)
County: Code: 70 **Name:** UNION
Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20153019 **AASHTO Class:** A-4(2)
Sample ID: RV524 **Material Type (1 or 2):** 2
LATITUDE: **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
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.4	22.6	2.8	2.1	1.8	0.2	0.00084	0.00011	17,512
Sequence 2	6.0	4.0	47.7	44.8	2.9	3.9	3.6	0.2	0.00174	0.00022	16,784
Sequence 3	6.0	6.0	70.6	66.9	3.8	5.7	5.4	0.3	0.00273	0.00034	15,985
Sequence 4	6.0	8.0	94.5	88.3	6.2	7.7	7.2	0.5	0.00399	0.00050	14,461
Sequence 5	6.0	10.0	118.0	109.3	8.7	9.6	8.9	0.7	0.00538	0.00067	13,263
Sequence 6	4.0	2.0	25.3	22.4	2.9	2.1	1.8	0.2	0.00093	0.00012	15,801
Sequence 7	4.0	4.0	47.4	44.6	2.8	3.9	3.6	0.2	0.00196	0.00024	14,844
Sequence 8	4.0	6.0	69.2	66.4	2.9	5.6	5.4	0.2	0.00311	0.00039	13,945
Sequence 9	4.0	8.0	93.1	87.8	5.4	7.6	7.1	0.4	0.00438	0.00055	13,083
Sequence 10	4.0	10.0	116.7	108.9	7.8	9.5	8.9	0.6	0.00582	0.00072	12,226
Sequence 11	2.0	2.0	25.1	22.3	2.8	2.0	1.8	0.2	0.00104	0.00013	13,989
Sequence 12	2.0	4.0	47.1	44.2	2.8	3.8	3.6	0.2	0.00221	0.00028	13,051
Sequence 13	2.0	6.0	68.7	65.8	2.9	5.6	5.3	0.2	0.00356	0.00044	12,073
Sequence 14	2.0	8.0	91.4	86.9	4.5	7.4	7.1	0.4	0.00498	0.00062	11,389
Sequence 15	2.0	10.0	114.4	107.4	7.0	9.3	8.7	0.6	0.00657	0.00082	10,670

TESTED BY _____ DATE October 15, 2015
 REVIEWED BY _____ DATE _____

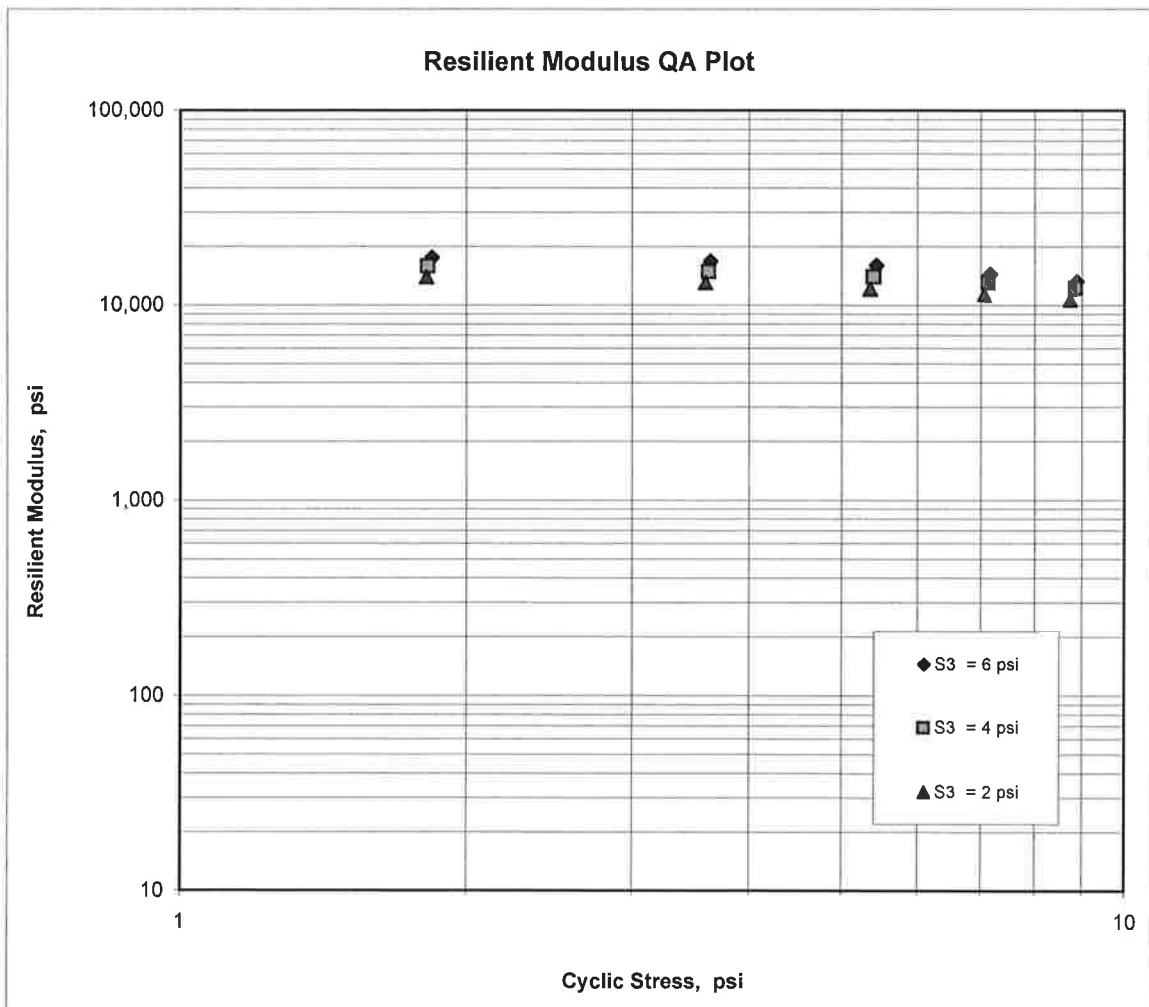
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No. CA0706 Material Code SSRVPS
Date Sampled: 10/15/15 Station No.: 123+00
Date Tested: October 15, 2015 Location: 25'LT
Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)
County: Code: 70 Name: UNION
Sampled By: FAULKNER Depth: 0-5
Lab No.: 20153019 AASHTO Class: A-4(2)
Sample ID: RV524 Material Type (1 or 2): 2
LATITUDE: LONGITUDE:

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

$K_1 = 13,390$
 $K_2 = -0.16420$
 $K_5 = 0.22008$
 $R^2 = 0.95$



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

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/21/15	Station No.:	203+00
Date Tested:	October 21, 2015	Location:	27LT
Name of Project:	AIRPORT DR. - HWY.82B (WIDENING)(S)		
County:	Code: 70	Name:	UNION
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153020	AASHTO Class:	A-6(9)
Sample ID:	RV525	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	3.95
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):	12.17
Initial Volume, AoLo (cu. in):	97.63

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3048.40
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4. Soil Properties:

Optimum Moisture Content (%):	20.0
Maximum Dry Density (pcf):	101.3
95% of MDD (pcf):	96.2
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3048.40
Compaction Moisture content (%):	19.6
Compaction Wet Density (pcf):	118.97
Compaction Dry Density (pcf):	99.47
Moisture Content After Mr Test (%):	19.6

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

7. Resilient Modulus, Mr: 14593(S_c)^{-0.27973}(S₃)^{0.10870}

8. Comments

9. Tested By: CG **Date:** October 21, 2015

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

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

Job No. CA0706 **Material Code** SSRVPS
Date Sampled: 10/21/15 **Station No.:** 203+00
Date Tested: October 21, 2015 **Location:** 27LT

Name of Project: AIRPORT DR. - HWY.82B (WIDENING)(S)
County: Code: 70 Name: UNION

Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20153020 **AASHTO Class:** A-6(9)
Sample ID: RV525 **Material Type (1 or 2):** 2
LATITUDE: **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	S ₃	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.0	22.2	2.9	2.1	1.8	0.2	0.00100	0.00013	14,540
Sequence 2	6.0	4.0	46.9	44.0	2.9	3.9	3.6	0.2	0.00216	0.00027	13,445
Sequence 3	6.0	6.0	69.1	65.3	3.7	5.7	5.4	0.3	0.00359	0.00045	11,976
Sequence 4	6.0	8.0	91.4	85.2	6.2	7.5	7.0	0.5	0.00552	0.00069	10,168
Sequence 5	6.0	10.0	112.0	103.3	8.7	9.2	8.5	0.7	0.00778	0.00097	8,745
Sequence 6	4.0	2.0	24.9	22.1	2.9	2.0	1.8	0.2	0.00107	0.00013	13,635
Sequence 7	4.0	4.0	46.6	43.8	2.9	3.8	3.6	0.2	0.00232	0.00029	12,446
Sequence 8	4.0	6.0	67.8	64.9	2.9	5.6	5.3	0.2	0.00383	0.00048	11,166
Sequence 9	4.0	8.0	90.0	84.8	5.2	7.4	7.0	0.4	0.00566	0.00071	9,874
Sequence 10	4.0	10.0	111.5	103.8	7.7	9.2	8.5	0.6	0.00781	0.00097	8,757
Sequence 11	2.0	2.0	24.8	22.0	2.9	2.0	1.8	0.2	0.00116	0.00014	12,499
Sequence 12	2.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00251	0.00031	11,458
Sequence 13	2.0	6.0	67.4	64.5	2.9	5.5	5.3	0.2	0.00410	0.00051	10,354
Sequence 14	2.0	8.0	88.8	84.4	4.4	7.3	6.9	0.4	0.00597	0.00074	9,317
Sequence 15	2.0	10.0	109.9	102.9	7.0	9.0	8.5	0.6	0.00811	0.00101	8,366

TESTED BY _____ CG _____ DATE October 21, 2015
REVIEWED BY _____ DATE _____

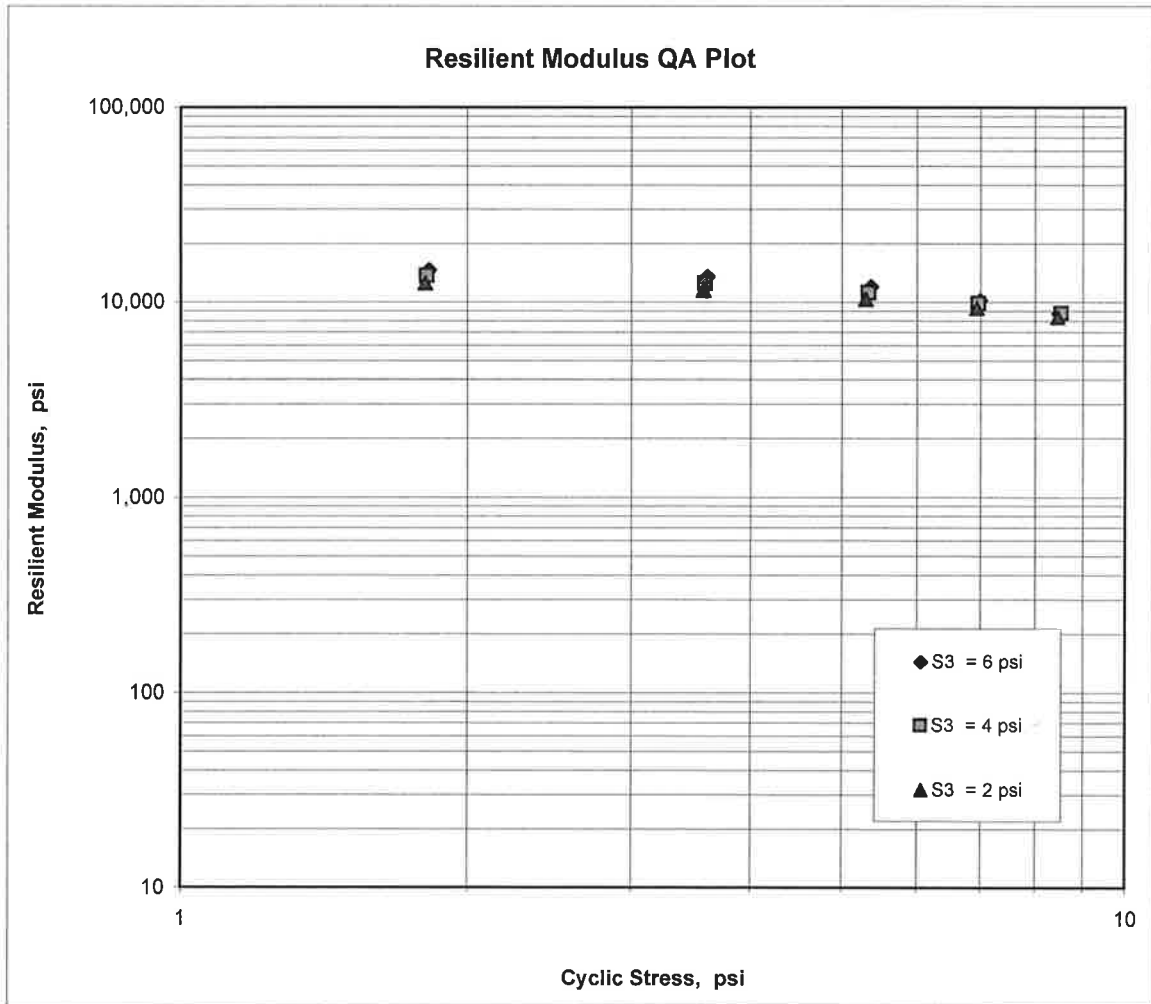
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/21/15	Station No.:	203+00
Date Tested:	October 21, 2015	Location:	27'LT
Name of Project:	AIRPORT DR. - HWY.82B (WIDENING)(S)		
County:	Code: 70	Name:	UNION
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153020	AASHTO Class:	A-6(9)
Sample ID:	RV525	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 =$	<u>14,593</u>
$K_2 =$	<u>-0.27973</u>
$K_5 =$	<u>0.10870</u>
$R^2 =$	<u>0.89</u>



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

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/20/15	Station No.:	379+00
Date Tested:	October 20, 2015	Location:	25' LT
Name of Project:	AIRPORT DR. - HWY. 82B (WIDENING)(S)		
County:	Code: 70	Name: UNION	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153022	AASHTO Class:	A-6(4)
Sample ID:	RV527	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	3.95
Average	3.95
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.04
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.04
Initial Area, Ao (sq. in):	12.18
Initial Volume, AoLo (cu. in):	97.95

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3022.60
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4. Soil Properties:

Optimum Moisture Content (%):	16.6
Maximum Dry Density (pcf):	105.9
95% of MDD (pcf):	100.6
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3022.60
Compaction Moisture content (%):	16.1
Compaction Wet Density (pcf):	117.58
Compaction Dry Density (pcf):	101.27
Moisture Content After Mr Test (%):	16.0

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

7. Resilient Modulus, Mr: 11300(Sc)^{-0.18985}(S3)^{0.21352}

8. Comments

9. Tested By: GW, DT **Date:** October 20, 2015

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

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

Job No. CA0706 **Material Code** SSRVPS
Date Sampled: 10/20/15 **Station No.:** 379+00
Date Tested: October 20, 2015 **Location:** 25' LT

Name of Project: AIRPORT DR. - HWY. 82B (WIDENING)(S)
County: Code: 70 Name: UNION

Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20153022 **AASHTO Class:** A-6(4)
Sample ID: RV527 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied		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
			P _{max} lbs	P _{cyclic} lbs							
DESIGNATION	S ₃	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00101	0.00013	14,515
Sequence 2	6.0	4.0	46.8	44.0	2.8	3.8	3.6	0.2	0.00214	0.00027	13,549
Sequence 3	6.0	6.0	69.3	65.6	3.7	5.7	5.4	0.3	0.00338	0.00042	12,820
Sequence 4	6.0	8.0	92.6	86.4	6.1	7.6	7.1	0.5	0.00499	0.00062	11,421
Sequence 5	6.0	10.0	115.3	106.7	8.6	9.5	8.8	0.7	0.00674	0.00084	10,459
Sequence 6	4.0	2.0	24.9	22.1	2.8	2.0	1.8	0.2	0.00110	0.00014	13,237
Sequence 7	4.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00239	0.00030	12,014
Sequence 8	4.0	6.0	67.7	64.8	2.9	5.6	5.3	0.2	0.00386	0.00048	11,079
Sequence 9	4.0	8.0	90.7	85.5	5.2	7.4	7.0	0.4	0.00546	0.00068	10,339
Sequence 10	4.0	10.0	113.7	106.0	7.7	9.3	8.7	0.6	0.00718	0.00089	9,745
Sequence 11	2.0	2.0	24.7	21.9	2.8	2.0	1.8	0.2	0.00126	0.00016	11,458
Sequence 12	2.0	4.0	46.1	43.3	2.8	3.8	3.6	0.2	0.00271	0.00034	10,524
Sequence 13	2.0	6.0	66.9	64.1	2.9	5.5	5.3	0.2	0.00434	0.00054	9,737
Sequence 14	2.0	8.0	88.5	84.2	4.4	7.3	6.9	0.4	0.00609	0.00076	9,129
Sequence 15	2.0	10.0	111.2	104.4	6.8	9.1	8.6	0.6	0.00790	0.00098	8,720

TESTED BY _____ DATE _____
 REVIEWED BY _____ DATE _____

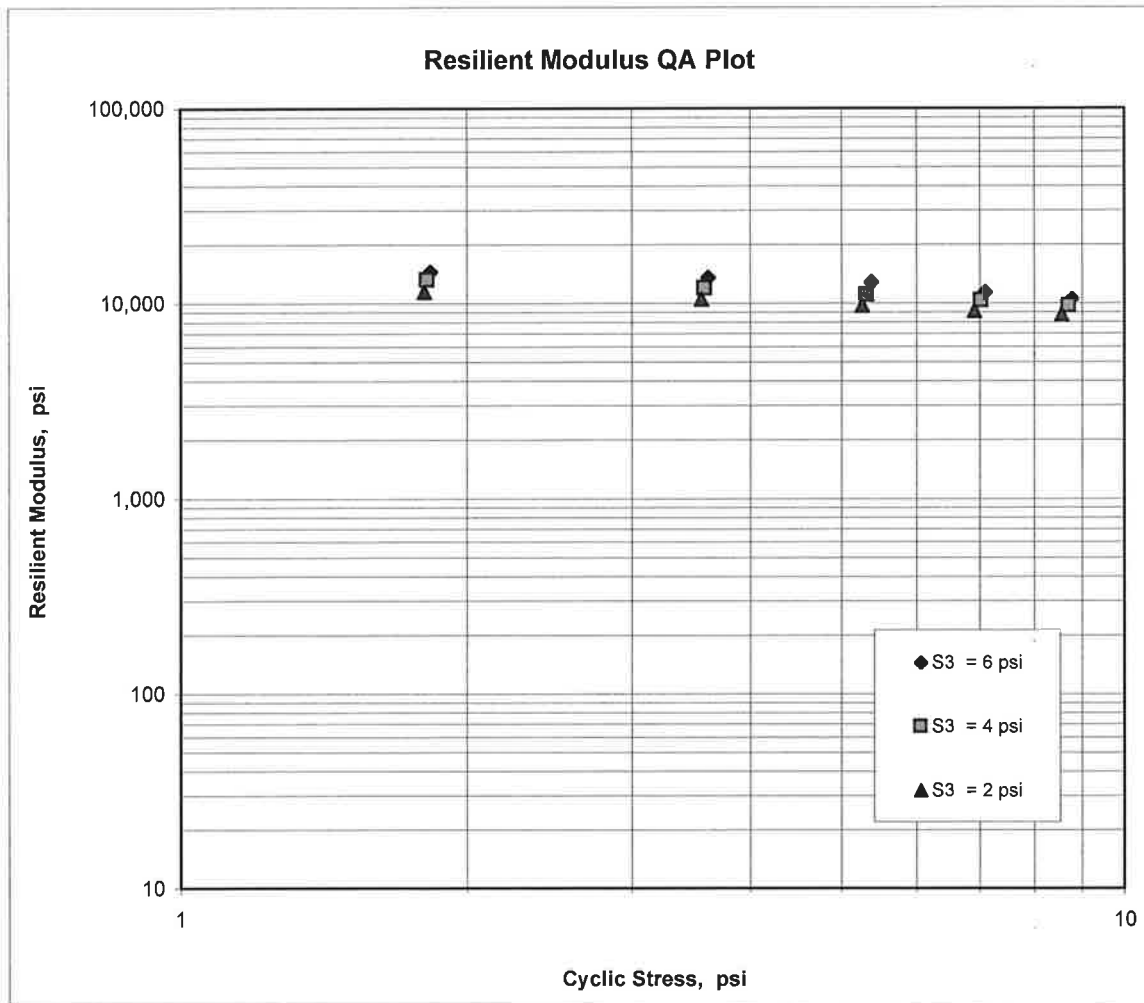
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/20/15	Station No.:	379+00
Date Tested:	October 20, 2015	Location:	25' LT
Name of Project:	AIRPORT DR. - HWY. 82B (WIDENING)(S)		
County:	Code: 70	Name:	UNION
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153022	AASHTO Class:	A-6(4)
Sample ID:	RV527	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

$$M_R = K_1 (S_c)^{K_2} (S_d)^{K_5}$$

$K_1 = 11,300$
 $K_2 = -0.18985$
 $K_5 = 0.21352$
 $R^2 = 0.96$



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

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/20/15	Station No.:	259+00
Date Tested:	October 20, 2015	Location:	27' RT
Name of Project:	AIRPORT DR. - HWY. 82B (WIDENING)(S)		
County:	Code: 70	Name: UNION	
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153021	AASHTO Class:	A-4(7)
Sample ID:	RV526	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	3.97
Middle	3.95
Bottom	3.95
Average	3.96
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.06
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.06
Initial Area, Ao (sq. in):	12.22
Initial Volume, AoLo (cu. in):	98.53

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3138.10
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4. Soil Properties:

Optimum Moisture Content (%):	15.3
Maximum Dry Density (pcf):	109.5
95% of MDD (pcf):	104.0
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3138.10
Compaction Moisture content (%):	14.7
Compaction Wet Density (pcf):	121.36
Compaction Dry Density (pcf):	105.80
Moisture Content After Mr Test (%):	14.7

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

7. Resilient Modulus, Mr: 15002(Sc)^{-0.14433}(S3)^{0.16355}

8. Comments _____

9. Tested By: CG, DT **Date:** October 20, 2015

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

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

Job No. CA0706 **Material Code** SSRVPS
Date Sampled: 10/20/15 **Station No.:** 259+00
Date Tested: October 20, 2015 **Location:** 27' RT

Name of Project: AIRPORT DR. - HWY. 82B (WIDENING)(S)
County: Code: 70 Name: UNION

Sampled By: FAULKNER **Depth:** 0-5
Lab No.: 20153021 **AASHTO Class:** A-4(7)
Sample ID: RV526 **Material Type (1 or 2):** 2
LATITUDE: **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. LVD1 and 2	Resilient Strain	Resilient Modulus
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.2	22.5	2.7	2.1	1.8	0.2	0.0082	0.00010	18,087
Sequence 2	6.0	4.0	47.3	44.5	2.7	3.9	3.6	0.2	0.00169	0.00021	17,350
Sequence 3	6.0	6.0	70.0	66.4	3.6	5.7	5.4	0.3	0.00265	0.00033	16,548
Sequence 4	6.0	8.0	93.5	87.5	6.0	7.6	7.2	0.5	0.00381	0.00047	15,156
Sequence 5	6.0	10.0	116.0	107.6	8.4	9.5	8.8	0.7	0.00513	0.00064	13,824
Sequence 6	4.0	2.0	25.0	22.5	2.5	2.0	1.8	0.2	0.00088	0.00011	16,945
Sequence 7	4.0	4.0	47.1	44.3	2.8	3.9	3.6	0.2	0.00184	0.00023	15,869
Sequence 8	4.0	6.0	68.7	65.9	2.8	5.6	5.4	0.2	0.00288	0.00036	15,059
Sequence 9	4.0	8.0	92.1	86.8	5.4	7.5	7.1	0.4	0.00402	0.00050	14,236
Sequence 10	4.0	10.0	114.9	107.1	7.9	9.4	8.8	0.6	0.00533	0.00066	13,235
Sequence 11	2.0	2.0	25.1	22.2	2.8	2.0	1.8	0.2	0.00099	0.00012	14,831
Sequence 12	2.0	4.0	46.7	43.9	2.9	3.8	3.6	0.2	0.00203	0.00025	14,265
Sequence 13	2.0	6.0	68.2	65.3	2.9	5.6	5.3	0.2	0.00319	0.00040	13,505
Sequence 14	2.0	8.0	90.6	86.1	4.4	7.4	7.0	0.4	0.00442	0.00055	12,834
Sequence 15	2.0	10.0	113.5	106.6	6.9	9.3	8.7	0.6	0.00578	0.00072	12,150

TESTED BY _____ DATE _____
 CG,DT October 20, 2015
 REVIEWED BY _____ DATE _____

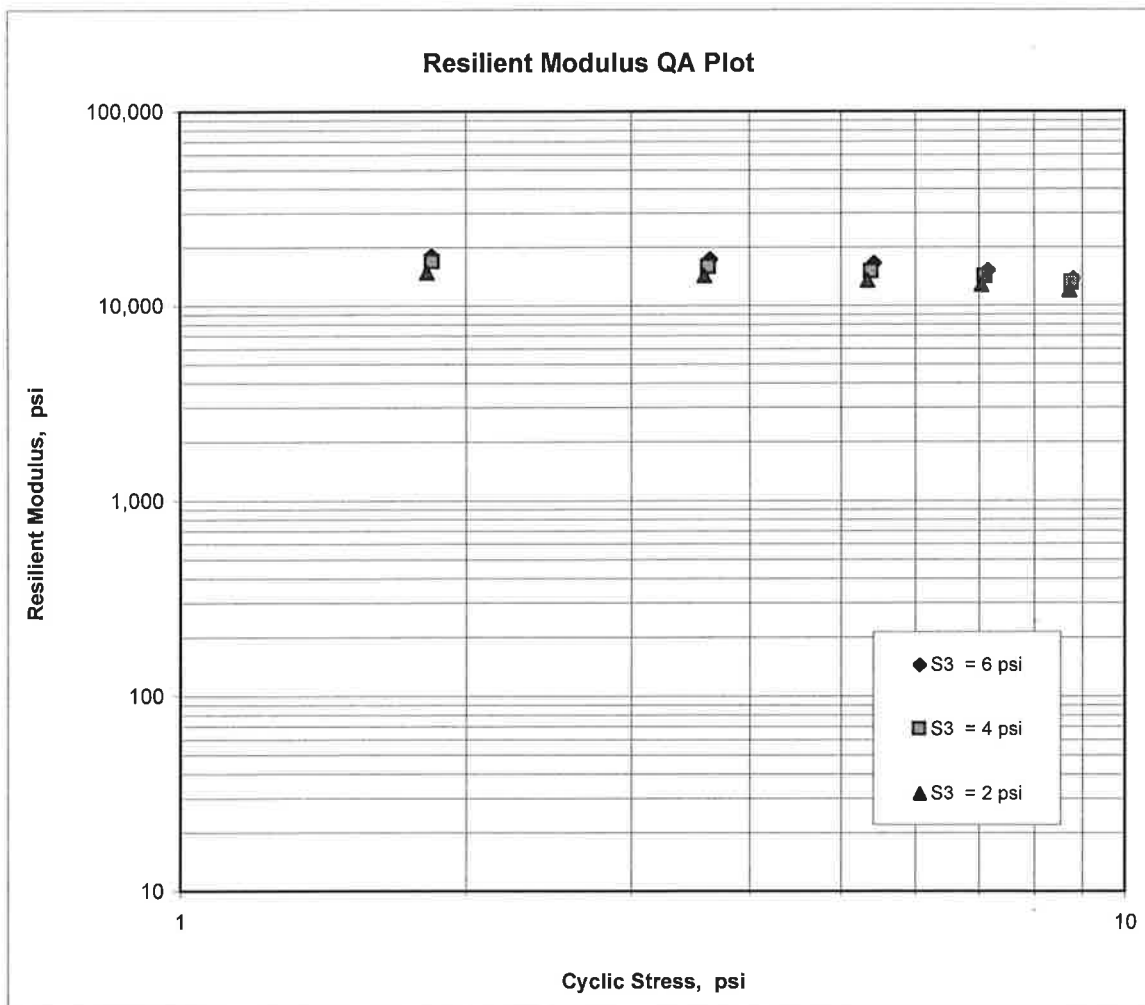
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	CA0706	Material Code	SSRVPS
Date Sampled:	10/20/15	Station No.:	259+00
Date Tested:	October 20, 2015	Location:	27' RT
Name of Project:	AIRPORT DR. - HWY. 82B (WIDENING)(S)		
County:	Code: 70	Name:	UNION
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20153021	AASHTO Class:	A-4(7)
Sample ID:	RV526	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = 15,002$
 $K_2 = -0.14433$
 $K_5 = 0.16355$
 $R^2 = 0.93$



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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 1
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152915	- 20152916	- 20152917
SAMPLE ID	- S420	- S421	- S422
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 099+00	- 099+00	- 099+00
LOCATION	- 06' RT	- 15' RT	- 24' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 33.60	- 33 12 33.60	- 33 12 33.40
LONGITUDE DEG-MIN-SEC	- 92 48 44.50	- 92 48 44.50	- 92 48 44.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 99	- 97	- 99
	NO. 10 - 99	- 96	- 98
	NO. 40 - 98	- 92	- 95
	NO. 80 - 91	- 68	- 87
	NO. 200 - 61	- 46	- 55
LIQUID LIMIT	- 22	- ND	- 20
PLASTICITY INDEX	- 05	- NP	- 05
AASHTO SOIL	- A-4 (1)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 21.9	- 17.8	- 17.4
ACHMSC (IN)	- 8.75W	- 3.5W	- --
ACHMBC (IN)	- 3.5	- --	- --
PCCP (IN)	- 5.5	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 7.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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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	- 10/26/15	SEQUENCE NO.	- 2
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152918	- 20152919	- 20152920
SAMPLE ID	- S423	- S424	- S425
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 107+00	- 107+00	- 107+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-2Z
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 32.50	- 33 12 32.50	- 33 12 32.70
LONGITUDE DEG-MIN-SEC	- 92 48 33.80	- 92 48 33.80	- 92 48 33.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	100
	3/8 IN. - 100	100	98
	NO. 4 - 97	97	83
	NO. 10 - 90	92	67
	NO. 40 - 77	87	57
	NO. 80 - 69	56	44
	NO. 200 - 54	41	28
LIQUID LIMIT	- 29	- 20	-
PLASTICITY INDEX	- 12	- 05	-
AASHTO SOIL	- A-6 (4)	- A-4 (0)	- NO TEST
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 32.1	- 20.9	- 4.0
ACHMSC (IN)	- 12.5WX	- 11.0WX	- --
ACHMBC (IN)	- 4.0	- --	- --
PCCP (IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7 (IN)	- 7.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
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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 - 10/26/15 SEQUENCE NO. - 3
JOB NUMBER - CA0706 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 - 70
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20152921	-	20152922	-	20152923
SAMPLE ID	-	S426	-	S427	-	S428
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	115+00	-	115+00	-	115+00
LOCATION	-	18' RT	-	27' RT	-	37' RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	GRAY	-	BR/GR	-	BROWN
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	33 12 31.80	-	33 12 31.70	-	33 12 31.60
LONGITUDE DEG-MIN-SEC	-	92 48 24.50	-	92 48 24.50	-	92 48 24.50
% PASSING	2 IN.	-	-	-	-	-
	1 1/2 IN.	-	-	-	-	-
	3/4 IN.	-	100	-	-	-
	3/8 IN.	-	99	-	100	-
	NO. 4	-	99	-	98	-
	NO. 10	-	99	-	96	-
	NO. 40	-	97	-	93	-
	NO. 80	-	83	-	80	-
	NO. 200	-	64	-	60	-
LIQUID LIMIT	-	18	-	22	-	22
PLASTICITY INDEX	-	04	-	06	-	05
AASHTO SOIL	-	A-4 (0)	-	A-4 (1)	-	A-4 (1)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	21.2	-	17.1	-	13.0
ACHMSC (IN)	-	4.0W	-	3.5	-	--
ACHMBC (IN)	-	9.0W	-	9.25	-	--
AGG.BASE CRS. CL7 (IN)	-	8.0	-	--	-	--
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 4
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 09/22/15
LOCATION	- UNION COUNTY	DATE RECEIVED	- 09/23/15
SAMPLED BY	- D.DICKERSON	DATE TESTED	- 10/09/15
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152924	- 20152925	- 20152926
SAMPLE ID	- S429	- S430	- S431
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 123+00	- 123+00	- 123+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 32.40	- 33 12 32.60	- 33 12 32.80
LONGITUDE DEG-MIN-SEC	- 92 48 15.00	- 92 48 15.00	- 92 48 15.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	97	100
	NO. 4 -	96	99
	NO. 10 - 100	93	99
	NO. 40 - 99	88	97
	NO. 80 - 95	74	92
	NO. 200 - 77	58	73
LIQUID LIMIT	- 25	- 22	- 28
PLASTICITY INDEX	- 08	- 07	- 11
AASHTO SOIL	- A-4 (4)	- A-4 (1)	- A-6 (6)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.7	- 23.9	- 26.7
ACHMSC	(IN) - 12.0W	- 8.0W	- --
ACHMBC	(IN) - 2.5	- --	- --
PCCP	(IN) - 6.25	- --	- --
AGG.BASE CRS. CL7	(IN) - --	- 5.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15	SEQUENCE NO. - 5
JOB NUMBER - CA0706	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 - 70
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - UNION COUNTY	DATE SAMPLED - 09/22/15
SAMPLED BY - D.DICKERSON	DATE RECEIVED - 09/23/15
SAMPLE FROM - TEST HOLE	DATE TESTED - 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	- 20152927	- 20152928	- 20152929
SAMPLE ID	- S432	- S433	- S434
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 131+00	- 131+00	- 131+00
LOCATION	- 18' RT	- 27' RT	- 37' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 32.30	- 33 12 32.30	- 33 12 32.20
LONGITUDE DEG-MIN-SEC	- 92 48 5.60	- 92 48 5.70	- 92 48 5.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	-	-
3/8 IN.	- 99	- 100	- 100
NO. 4	- 98	- 97	- 99
NO. 10	- 98	- 94	- 98
NO. 40	- 95	- 91	- 96
NO. 80	- 86	- 76	- 82
NO. 200	- 57	- 49	- 53
LIQUID LIMIT	- 25	- 24	- 24
PLASTICITY INDEX	- 08	- 08	- 08
AASHTO SOIL	- A-4 (2)	- A-4 (1)	- A-4 (1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.0	- 20.0	- 18.7
ACHMSC (IN)	- 3.75W	- 3.5	- --
ACHMBC (IN)	- 10.25W	- 9.0W	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 6
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152930	- 20152931	- 20152932
SAMPLE ID	- S435	- S436	- S437
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 139+00	- 139+00	- 139+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 32.00	- 33 12 32.10	- 33 12 32.20
LONGITUDE DEG-MIN-SEC	- 92 47 56.10	- 92 47 56.10	- 92 47 56.10
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	100
3/8 IN.	- 100	- 100	- 99
NO. 4	- 99	- 99	- 99
NO. 10	- 99	- 96	- 97
NO. 40	- 99	- 92	- 96
NO. 80	- 90	- 78	- 87
NO. 200	- 63	- 62	- 66
LIQUID LIMIT	- 21	- 19	- 26
PLASTICITY INDEX	- 05	- 04	- 09
AASHTO SOIL	- A-4 (1)	- A-4 (0)	- A-4 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 21.0	- 17.5	- 18.9
ACHMSC (IN)	- 10.0WX	- 6.0W	- --
ACHMBC (IN)	- 3.0	- --	- --
PCCP (IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 7.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15 SEQUENCE NO. - 7
JOB NUMBER - CA0706 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 - 70
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152933	20152934	20152935
SAMPLE ID	S438	S439	S440
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	147+00	147+00	147+00
LOCATION	18' RT	27' RT	36' RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	33 12 31.40	33 12 31.50	33 12 31.40
LONGITUDE DEG-MIN-SEC	92 47 46.70	92 47 46.70	92 47 46.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	100	100	100
NO. 4	99	99	98
NO. 10	99	97	92
NO. 40	98	93	86
NO. 80	87	80	76
NO. 200	51	52	63
LIQUID LIMIT	28	29	28
PLASTICITY INDEX	09	11	11
AASHTO SOIL	A-4 (2)	A-6 (3)	A-6 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	23.3	27.0	22.5
ACHMSC (IN)	5.0	3.5	--
ACHMBC (IN)	8.0W	8.0W	--
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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	- 10/26/15	SEQUENCE NO.	- 8
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152936	- 20152937	- 20152938
SAMPLE ID	- S441	- S442	- S443
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 155+00	- 155+00	- 155+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 31.70	- 33 12 31.80	- 33 12 31.90
LONGITUDE DEG-MIN-SEC	- 92 47 37.30	- 92 47 37.30	- 92 47 37.30
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	- 100	-
3/8 IN.	- 99	- 98	- 100
NO. 4	- 97	- 97	- 98
NO. 10	- 93	- 95	- 95
NO. 40	- 83	- 91	- 92
NO. 80	- 75	- 73	- 77
NO. 200	- 42	- 40	- 45
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.4	- 12.2	- 13.2
ACHMSC (IN)	- 9.0WX	- 8.5W	- --
ACHMBC (IN)	- 5.0W	- --	- --
PCCP (IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 7.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 9
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152939	- 20152940	- 20152941
SAMPLE ID	- S444	- S445	- S446
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 163+00	- 163+00	- 163+00
LOCATION	- 18' RT	- 27' RT	- 35' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 31.20	- 33 12 31.10	- 33 12 31.10
LONGITUDE DEG-MIN-SEC	- 92 47 27.80	- 92 47 27.90	- 92 47 27.90
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	- 100
NO. 4	- 99	- 99	- 99
NO. 10	- 98	- 96	- 87
NO. 40	- 95	- 94	- 80
NO. 80	- 77	- 82	- 65
NO. 200	- 48	- 59	- 43
LIQUID LIMIT	- ND	- 18	- ND
PLASTICITY INDEX	- NP	- 02	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.4	- 19.0	- 7.0
ACHMSC (IN)	- 3.5WX	- 4.0W	- --
ACHMBC (IN)	- 9.5WX	- 9.0W	- --
AGG.BASE CRS. CL7 (IN)	- 6.0	- --	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 10
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152942	- 20152943	- 20152944
SAMPLE ID	- S447	- S448	- S449
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 171+00	- 171+00	- 171+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 31.30	- 33 12 31.30	- 33 12 31.40
LONGITUDE DEG-MIN-SEC	- 92 47 18.50	- 92 47 18.50	- 92 47 18.50

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	- 100	- 100
	NO. 4	- 99	- 97
	NO. 10	- 97	- 88
	NO. 40	- 94	- 84
	NO. 80	- 89	- 81
	NO. 200	- 57	- 72
		- 49	- 45

LIQUID LIMIT	- 18	- 23	- ND
PLASTICITY INDEX	- 03	- 07	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (1)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.8	- 15.6	- 6.8

ACHMSC	(IN)	- 13.25W	- 7.5W	- --
ACHMBC	(IN)	- 3.5	- --	- --
PCCP	(IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7	(IN)	- --	- 6.0	- --
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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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	- 10/26/15	SEQUENCE NO.	- 11
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152945	- 20152946	- 20152947
SAMPLE ID	- S450	- S451	- S452
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 179+00	- 179+00	- 179+00
LOCATION	- 06' RT	- 15' RT	- 27' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 30.90	- 33 12 30.80	- 33 12 30.70
LONGITUDE DEG-MIN-SEC	- 92 47 9.20	- 92 47 9.20	- 92 47 9.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 99	- 99	- 99
	NO. 10 - 97	- 97	- 98
	NO. 40 - 94	- 95	- 97
	NO. 80 - 85	- 73	- 89
	NO. 200 - 46	- 45	- 57
LIQUID LIMIT	- ND	- ND	- 17
PLASTICITY INDEX	- NP	- NP	- 02
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.9	- 13.0	- 8.4
ACHMSC (IN)	- 8.0WX	- 3.75	- --
ACHMBC (IN)	- 3.5	- --	- --
PCCP (IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 6.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15 SEQUENCE NO. - 12
 JOB NUMBER - CA0706 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 - 70
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20152948	-	20152949	-	20152950
SAMPLE ID	-	S453	-	S454	-	S455
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	187+00	-	187+00	-	195+00
LOCATION	-	06' LT	-	15' LT	-	06' RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BROWN	-	BROWN	-	GRAY
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 12 30.60	-	33 12 30.80	-	33 12 30.10
LONGITUDE DEG-MIN-SEC	-	92 46 59.90	-	92 46 59.90	-	92 46 50.90
% PASSING	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	
	3/8	IN.	-	98	-	100
	NO. 4		-	93	-	97
	NO. 10		-	89	-	99
	NO. 40		-	83	-	97
	NO. 80		-	72	-	77
	NO. 200		-	49	-	52
			-		-	59
LIQUID LIMIT	-	21	-	16	-	ND
PLASTICITY INDEX	-	05	-	01	-	NP
AASHTO SOIL	-	A-4 (0)	-	A-4 (0)	-	A-4 (0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	16.0	-	12.5	-	14.8
ACHMSC	(IN)	7.0W	-	3.5W	-	--
ACHMBC	(IN)	3.0	-	1.0	-	--
AGG.BASE CRS. CL7	(IN)	8.0	-	8.0	-	--
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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	- 10/26/15	SEQUENCE NO.	- 13
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 09/22/15
LOCATION	- UNION COUNTY	DATE RECEIVED	- 09/23/15
SAMPLED BY	- D.DICKERSON	DATE TESTED	- 10/09/15
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20152951	-	20152952	-	20152953
SAMPLE ID	-	S456	-	S457	-	S458
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	195+00	-	203+00	-	203+00
LOCATION	-	15' RT	-	15' LT	-	27' LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	GRAY	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 12 30.10	-	33 12 31.20	-	33 12 31.30
LONGITUDE DEG-MIN-SEC	-	92 46 50.80	-	92 46 41.20	-	92 46 41.20
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	
	3/8	IN.	-	99	-	
	NO. 4		-	97	-	100
	NO. 10		-	96	-	
	NO. 40		-	94	-	
	NO. 80		-	84	-	
	NO. 200		-	61	-	97
LIQUID LIMIT	-	18	-	29	-	58
PLASTICITY INDEX	-	03	-	17	-	37
AASHTO SOIL	-	A-4 (0)	-	A-6 (9)	-	A-7-6 (40)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	19.0	-	23.3	-	30.2
ACHMSC	(IN)	5.0W	-	5.0W	-	--
AGG.BASE CRS. CL7	(IN)	5.0	-	6.0	-	--
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 14
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152954	- 20152955	- 20152956
SAMPLE ID	- S459	- S460	- S461
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 211+00	- 211+00	- 219+00
LOCATION	- 15' RT	- 27' RT	- 06' LT
DEPTH IN FEET	- 0-2Z	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BR/RD
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 31.10	- 33 12 31.00	- 33 12 31.10
LONGITUDE DEG-MIN-SEC	- 92 46 31.60	- 92 46 31.70	- 92 46 22.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 98	- 98
	NO. 4 - 95	- 95	- 92
	NO. 10 - 92	- 93	- 87
	NO. 40 - 89	- 92	- 82
	NO. 80 - 71	- 86	- 78
	NO. 200 - 43	- 56	- 55
LIQUID LIMIT	-	- ND	- 23
PLASTICITY INDEX	-	- NP	- 05
AASHTO SOIL	- NO TEST	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.2	- 5.4	- 19.0
ACHMSC (IN)	- 4.0W	- --	- 7.5WX
ACHMBC (IN)	- --	- --	- 2.5WX
PCCP (IN)	- --	- --	- 5.0
AGG.BASE CRS. CL7 (IN)	- 5.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 15
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20152957	- 20152958	- 20152959
SAMPLE ID	- S462	- S463	- S464
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 219+00	- 219+00	- 227+00
LOCATION	- 15' LT	- 27' LT	- 06' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/RD	- BROWN	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 31.10	- 33 12 31.20	- 33 12 30.80
LONGITUDE DEG-MIN-SEC	- 92 46 22.10	- 92 46 22.20	- 92 46 12.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 99	- 100	- 95
	NO. 4 - 98	- 97	- 95
	NO. 10 - 94	- 96	- 95
	NO. 40 - 91	- 95	- 94
	NO. 80 - 75	- 91	- 91
	NO. 200 - 50	- 65	- 75
LIQUID LIMIT	- 28	- 25	- 26
PLASTICITY INDEX	- 15	- 07	- 10
AASHTO SOIL	- A-6 (4)	- A-4 (2)	- A-4 (5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.8	- 12.6	- 26.8
ACHMSC (IN)	- 4.0W	- --	- 6.5W
ASHMBC (IN)	- --	- --	- 4.25
PCCP (IN)	- --	- --	- 6.0
AGG. BASE CRS. CL7 (IN)	- 6.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS -

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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	- 10/26/15	SEQUENCE NO.	- 16
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20152960	-	20152961	-	20152962
SAMPLE ID	-	S465	-	S466	-	S467
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	227+00	-	227+00	-	235+00
LOCATION	-	15' RT	-	27' RT	-	06' LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	GRAY	-	BR/GR	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 12 30.80	-	33 12 30.70	-	33 12 30.90
LONGITUDE DEG-MIN-SEC	-	92 46 12.70	-	92 46 12.70	-	92 46 3.20
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-		-	
	3/8	IN.	-	100	-	100
	NO. 4		-	99	-	98
	NO. 10		-	98	-	97
	NO. 40		-	95	-	95
	NO. 80		-	83	-	92
	NO. 200		-	63	-	75
LIQUID LIMIT	-	21	-	29	-	24
PLASTICITY INDEX	-	05	-	15	-	09
AASHTO SOIL	-	A-4 (1)	-	A-6 (9)	-	A-4 (4)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	19.9	-	22.1	-	22.8
ACHMSC (IN)	-	5.0W	-	--	-	7.0W
ACHMBC (IN)	-	--	-	--	-	3.0W
PCCP (IN)	-	--	-	--	-	5.5
AGG.BASE CRS. CL7 (IN)	-	7.0	-	--	-	--
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15 SEQUENCE NO. - 17
 JOB NUMBER - CA0706 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 - 70
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152963	20152964	20152965
SAMPLE ID	S468	S469	S470
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	235+00	235+00	243+00
LOCATION	15' LT	27' LT	06' RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BROWN	GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	33 12 31.00	33 12 31.10	33 12 30.60
LONGITUDE DEG-MIN-SEC	92 46 3.20	92 46 3.20	92 45 54.00
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	-	100
3/8 IN.	99	100	99
NO. 4	97	99	93
NO. 10	94	99	91
NO. 40	89	99	91
NO. 80	87	96	89
NO. 200	67	80	68
LIQUID LIMIT	ND	26	24
PLASTICITY INDEX	NP	09	07
AASHTO SOIL	A-4 (0)	A-4 (5)	A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	22.7	23.7	23.2
ACHMSC (IN)	4.5W	--	10.0WX
ACHMBC (IN)	--	--	4.0WX
PCCP (IN)	--	--	6.5
AGG. BASE CRS. CL7 (IN)	6.0	--	--
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 18
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152966	- 20152967	- 20152968
SAMPLE ID	- S471	- S472	- S473
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 243+00	- 243+00	- 251+00
LOCATION	- 15' RT	- 25' RT	- 06' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- RD/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 30.50	- 33 12 30.40	- 33 12 30.60
LONGITUDE DEG-MIN-SEC	- 92 45 53.90	- 92 45 53.90	- 92 45 44.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. - 100	99	100
	NO. 4 - 99	97	99
	NO. 10 - 97	95	98
	NO. 40 - 94	88	95
	NO. 80 - 78	74	92
	NO. 200 - 56	51	65
LIQUID LIMIT	- ND	- 21	- 26
PLASTICITY INDEX	- NP	- 04	- 09
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (3)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.9	- 19.7	- 21.5
ACHMSC (IN)	- 5.0W	- --	- 9.5W
ACHMBC (IN)	- --	- --	- 3.5
PCCP (IN)	- --	- --	- 6.0
AGG.BASE COARSE CL7 (IN)	- 6.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 19
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152969	- 20152970	- 20152971
SAMPLE ID	- S474	- S475	- S476
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 251+00	- 251+00	- 259+00
LOCATION	- 15' LT	- 25' LT	- 06' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RD/BR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 30.80	- 33 12 30.90	- 33 12 30.40
LONGITUDE DEG-MIN-SEC	- 92 45 44.40	- 92 45 44.40	- 92 45 35.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 99	- 91	- 99
	NO. 10 - 99	- 84	- 98
	NO. 40 - 99	- 81	- 95
	NO. 80 - 93	- 75	- 91
	NO. 200 - 62	- 65	- 77
LIQUID LIMIT	- 31	- 25	- 20
PLASTICITY INDEX	- 14	- 09	- 04
AASHTO SOIL	- A-6 (6)	- A-4 (3)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.4	- 15.9	- 21.6
ACHMSC (IN)	- 5.0W	- --	- 8.25WX
ACHMBC (IN)	- --	- --	- 4.0X
PCCP (IN)	- --	- --	- 6.25
AGG.BASE CRS. CL7 (IN)	- 6.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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	- 10/26/15	SEQUENCE NO.	- 20
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20152972	- 20152973	- 20152974
SAMPLE ID	- S477	- S478	- S479
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 259+00	- 259+00	- 267+00
LOCATION	- 15' RT	- 27' RT	- 18' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 30.40	- 33 12 30.30	- 33 12 30.60
LONGITUDE DEG-MIN-SEC	- 92 45 35.10	- 92 45 35.10	- 92 45 25.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	100
	3/8 IN. - 100	100	98
	NO. 4 - 99	99	97
	NO. 10 - 98	99	95
	NO. 40 - 95	99	94
	NO. 80 - 73	95	88
	NO. 200 - 57	80	73
LIQUID LIMIT	- 19	- 25	- 25
PLASTICITY INDEX	- 05	- 07	- 09
AASHTO SOIL	- A-4 (0)	- A-4 (4)	- A-4 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 23.0	- 29.1	- 21.1
ACHMSC (IN)	- 5.5W	- --	- 12.0W
ACHMBC (IN)	- --	- --	- 12.0W
AGG.BASE CRS. CL7 (IN)	- 6.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 21
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152975	- 20152976	- 20152977
SAMPLE ID	- S480	- S481	- S482
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 267+00	- 267+00	- 275+00
LOCATION	- 27' LT	- 38' LT	- 06' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 30.70	- 33 12 30.80	- 33 12 30.20
LONGITUDE DEG-MIN-SEC	- 92 45 25.50	- 92 45 25.50	- 92 45 16.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	95	-
	NO. 4 -	99	100
	NO. 10 -	99	99
	NO. 40 -	98	99
	NO. 80 -	93	97
	NO. 200 -	79	69
LIQUID LIMIT	- 22	- 23	- 25
PLASTICITY INDEX	- 07	- 06	- 10
AASHTO SOIL	- A-4 (3)	- A-4 (2)	- A-4 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.8	- 17.3	- 20.6
ACHMSC (IN)	- 5.0W	- --	- 9.5WX
ACHMBC (IN)	- --	- --	- 2.5WX
PCCP (IN)	- --	- --	- 6.25
AGG.BASE CRS. CL7 (IN)	- 7.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 22
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152978	- 20152979	- 20152980
SAMPLE ID	- S483	- S484	- S485
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 275+00	- 275+00	- 283+00
LOCATION	- 15' RT	- 25' 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	- 33 12 30.20	- 33 12 30.10	- 33 12 30.30
LONGITUDE DEG-MIN-SEC	- 92 45 16.10	- 92 45 16.00	- 92 45 7.00
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	- 100
NO. 4	- 99	- 98	- 99
NO. 10	- 98	- 96	- 98
NO. 40	- 97	- 94	- 96
NO. 80	- 84	- 90	- 93
NO. 200	- 56	- 57	- 71
LIQUID LIMIT	- ND	- 21	- 26
PLASTICITY INDEX	- NP	- 02	- 07
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (3)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 19.1	- 14.2	- 27.9
ACHMSC (IN)	- 5.5W	- --	- 7.5WX
ACHMBC (IN)	- --	- --	- 4.25
PCCP (IN)	- --	- --	- 6.0
AGG.BASE CRS. CL7 (IN)	- 6.0	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/26/15 SEQUENCE NO. - 23
JOB NUMBER - CA0706 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 - 70
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152981	20152982	20152983
SAMPLE ID	S486	S487	S488
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	283+00	283+00	291+00
LOCATION	15' LT	27' LT	15' RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	33 12 30.40	33 12 30.50	33 12 29.90
LONGITUDE DEG-MIN-SEC	92 45 7.00	92 45 7.00	92 44 57.80
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	100	100
3/8 IN.	99	94	99
NO. 4	97	88	96
NO. 10	95	81	92
NO. 40	95	74	90
NO. 80	79	67	73
NO. 200	61	55	45
LIQUID LIMIT	19	22	20
PLASTICITY INDEX	04	04	03
AASHTO SOIL	A-4(0)	A-4(0)	A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	22.0	18.9	19.4
ACHMSC (IN)	7.25W	--	13.0W
AGG.BASE CRS. CL7 (IN)	3.0	--	--
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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	- 10/26/15	SEQUENCE NO.	- 24
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152984	- 20152985	- 20152986
SAMPLE ID	- S489	- S490	- S491
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 291+00	- 299+00	- 299+00
LOCATION	- 27' RT	- 06' LT	- 15' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.80	- 33 12 30.20	- 33 12 30.20
LONGITUDE DEG-MIN-SEC	- 92 44 57.70	- 92 44 48.20	- 92 44 48.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	100	100
	NO. 4 - 100	99	96
	NO. 10 - 99	98	95
	NO. 40 - 99	97	93
	NO. 80 - 97	96	80
	NO. 200 - 58	64	55
LIQUID LIMIT	- ND	- 27	- 19
PLASTICITY INDEX	- NP	- 09	- 04
AASHTO SOIL	- A-4 (0)	- A-4 (3)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.8	- 26.5	- 21.4
ACHMSC (IN)	- --	- 7.5W	- 4.5W
ACHMBC (IN)	- --	- 2.5X	- --
PCCP (IN)	- --	- 6.0	- --
AGG.BASE CRS. CL7 (IN)	- --	- --	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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 - 10/26/15 SEQUENCE NO. - 25
JOB NUMBER - CA0706 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 - 70
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152987	20152988	20152989
SAMPLE ID	S492	S493	S494
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	299+00	307+00	307+00
LOCATION	25' LT	15' RT	25' RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 12 30.30	33 12 29.80	33 12 29.70
LONGITUDE DEG-MIN-SEC	92 44 48.20	92 44 38.50	92 44 38.50

% PASSING	2 IN.	1 1/2 IN.	3/4 IN.	3/8 IN.	NO. 4	NO. 10	NO. 40	NO. 80	NO. 200
					100	97	93	89	52
					100	99	98	79	40
					99	96	94	77	55

LIQUID LIMIT	25	21	25
PLASTICITY INDEX	07	05	10
AASHTO SOIL	A-4 (1)	A-4 (0)	A-4 (3)
UNIFIED SOIL			
% MOISTURE CONTENT	16.2	21.5	14.1

ACHMSC (IN) - -- 7.5WX
ACHMBC (IN) - -- 7.0WX

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 26
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152990	- 20152991	- 20152992
SAMPLE ID	- S495	- S496	- S497
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 315+00	- 315+00	- 315+00
LOCATION	- 06' LT	- 15' LT	- 25' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.70	- 33 12 30.00	- 33 12 30.10
LONGITUDE DEG-MIN-SEC	- 92 44 29.40	- 92 44 29.40	- 92 44 29.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 98	- 99	- 99
	NO. 10 - 97	- 99	- 97
	NO. 40 - 96	- 98	- 94
	NO. 80 - 90	- 84	- 79
	NO. 200 - 61	- 52	- 53
LIQUID LIMIT	- ND	- ND	- 21
PLASTICITY INDEX	- NP	- NP	- 04
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 27.1	- 14.2	- 9.8
ACHMSC (IN)	- 11.5W	- 7.25W	- --
ACHMBC (IN)	- 1.5X	- --	- --
PCCP (IN)	- 5.25	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 5.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 27
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152993	- 20152994	- 20152995
SAMPLE ID	- S498	- S499	- S500
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 323+00	- 323+00	- 323+00
LOCATION	- 06' RT	- 15' RT	- 25' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.60	- 33 12 29.60	- 33 12 29.50
LONGITUDE DEG-MIN-SEC	- 92 44 19.70	- 92 44 19.70	- 92 44 19.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	- 100
NO. 4	- 99	- 99	- 99
NO. 10	- 98	- 99	- 98
NO. 40	- 95	- 97	- 97
NO. 80	- 90	- 87	- 93
NO. 200	- 72	- 71	- 73
LIQUID LIMIT	- 21	- 23	- ND
PLASTICITY INDEX	- 04	- 06	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (2)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 21.0	- 21.2	- 17.1
ACHMSC (IN)	- 8.0WX	- 5.5W	- --
ASHMBC (IN)	- 3.5X	- --	- --
PCCP (IN)	- 6.5	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 6.0	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 28
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20152996	- 20152997	- 20152998
SAMPLE ID	- S501	- S502	- S503
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 331+00	- 331+00	- 340+00
LOCATION	- 06' LT	- 15' LT	- 15' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.50	- 33 12 29.80	- 33 12 29.30
LONGITUDE DEG-MIN-SEC	- 92 44 10.40	- 92 44 10.40	- 92 43 59.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 99	- 100	- 96
	NO. 4 - 98	- 99	- 93
	NO. 10 - 96	- 99	- 90
	NO. 40 - 95	- 97	- 87
	NO. 80 - 85	- 95	- 79
	NO. 200 - 68	- 81	- 56
LIQUID LIMIT	- ND	- 27	- 22
PLASTICITY INDEX	- NP	- 11	- 05
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.3	- 23.7	- 15.8
ACHMSC (IN)	- 10.0W	- 5.25W	- 5.5W
ACHMBC (IN)	- 3.0W	- --	- --
PCCP (IN)	- 6.0	- --	- --
AGG.BASE CRS. CL7 (IN)	- --	- 5.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 29
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20152999	-	20153000	-	20153001
SAMPLE ID	-	S504	-	S505	-	S506
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	340+00	-	347+00	-	347+00
LOCATION	-	25' RT	-	06' LT	-	15' LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BROWN	-	BR/GR	-	BR/GR
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	33 12 29.20	-	33 12 29.40	-	33 12 29.40
LONGITUDE DEG-MIN-SEC	-	92 43 59.80	-	92 43 50.80	-	92 43 50.90
% PASSING						
	2	IN.	-	-	-	-
	1 1/2	IN.	-	-	-	-
	3/4	IN.	-	-	-	-
	3/8	IN.	-	100	-	100
	NO. 4	-	99	99	-	98
	NO. 10	-	99	98	-	92
	NO. 40	-	97	95	-	83
	NO. 80	-	93	78	-	75
	NO. 200	-	64	68	-	68
LIQUID LIMIT	-	ND	-	33	-	32
PLASTICITY INDEX	-	NP	-	18	-	19
AASHTO SOIL	-	A-4(0)	-	A-6(10)	-	A-6(10)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	10.3	-	28.0	-	28.3
ACHMSC	(IN)	--	-	9.5W	-	12.0WX
ACHMBC	(IN)	--	-	2.5	-	--
AGG.BASE CRS. CL7	(IN)	--	-	10.0	-	--
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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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	- 10/26/15	SEQUENCE NO.	- 30
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20153002	- 20153003	- 20153004
SAMPLE ID	- S507	- S508	- S509
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 355+00	- 355+00	- 363+00
LOCATION	- 06' RT	- 15' RT	- 06' LT
DEPTH IN FEET	- 0-3.5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 28.90	- 33 12 28.90	- 33 12 28.90
LONGITUDE DEG-MIN-SEC	- 92 43 42.20	- 92 43 42.20	- 92 43 32.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	100
	3/8 IN. - 94	100	97
	NO. 4 - 91	95	91
	NO. 10 - 86	89	87
	NO. 40 - 80	85	83
	NO. 80 - 56	59	51
	NO. 200 - 37	42	32
LIQUID LIMIT	- ND	- ND	- 21
PLASTICITY INDEX	- NP	- NP	- 04
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.0	- 17.4	- 11.6
ACHMSC (IN)	- 10.0WX	- 4.5W	- 8.5WX
ACHMBC (IN)	- 3.0WX	- --	- 4.0
AGG.BASE CRS. CL7 (IN)	- 7.0	- 7.0	- 7.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 10/21/15 SEQUENCE NO. - 31
 JOB NUMBER - CA0706 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 - 70
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - AIRPORT DR. - HWY.82B (WIDENING) (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - UNION COUNTY DATE SAMPLED - 09/22/15
 SAMPLED BY - D.DICKERSON DATE RECEIVED - 09/23/15
 SAMPLE FROM - TEST HOLE DATE TESTED - 10/09/15
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	- 20153005	- 20153006	- 20153007
SAMPLE ID	- S510	- S511	- S512
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 363+00	- 371+00	- 371+00
LOCATION	- 15' LT	- 18' RT	- 27' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.10	- 33 12 28.70	- 33 12 28.70
LONGITUDE DEG-MIN-SEC	- 92 43 32.70	- 92 43 23.30	- 92 43 23.40
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	- 100	- 100
3/8 IN.	- 95	- 92	- 98
NO. 4	- 88	- 81	- 93
NO. 10	- 83	- 74	- 85
NO. 40	- 81	- 67	- 79
NO. 80	- 50	- 54	- 57
NO. 200	- 30	- 35	- 36
LIQUID LIMIT	- 18	- 23	- 17
PLASTICITY INDEX	- 01	- 05	- 02
AASHTO SOIL	- A-2-4(0)	- A-2-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.6	- 21.4	- 17.1
ACHMSC (IN)	- 3.0W	- 6.0W	- 5.25W
AGG.BASE CRS. CL7 (IN)	- 6.0	- 8.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 32
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HOPE 6TH ST. RECONSTRUCTION (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20153008	- 20153009	- 20153010
SAMPLE ID	- S513	- S514	- S515
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 371+00	- 379+00	- 379+00
LOCATION	- 35'RT	- 06' LT	- 15' LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 28.70	- 33 12 29.00	- 33 12 29.10
LONGITUDE DEG-MIN-SEC	- 92 43 23.30	- 92 43 14.00	- 92 43 14.10
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	- 100
3/8 IN.	- 100	- 100	- 96
NO. 4	- 99	- 97	- 90
NO. 10	- 97	- 94	- 86
NO. 40	- 95	- 90	- 81
NO. 80	- 89	- 78	- 64
NO. 200	- 52	- 39	- 32
LIQUID LIMIT	- 17	- 25	- 25
PLASTICITY INDEX	- 02	- 12	- 07
AASHTO SOIL	- A-4 (0)	- A-6 (1)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 7.1	- 19.8	- 28.1
ACHMSC (IN)	- --	- 6.0W	- 2.0W
ACHMBC (IN)	- --	- 2.5	- 1.0
AGG. BASE CRS. CL7 (IN)	- --	- 8.0	- 9.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/26/15	SEQUENCE NO.	- 33
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HOPE 6TH ST. RECONSTRUCTION (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- UNION COUNTY	DATE SAMPLED	- 09/22/15
SAMPLED BY	- D.DICKERSON	DATE RECEIVED	- 09/23/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 10/09/15
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20153011	- 20153012	- 20153013
SAMPLE ID	- S516	- S517	- S518
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 379+00	- 387+00	- 387+00
LOCATION	- 25' LT	- 06' RT	- 15' RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.20	- 33 12 28.80	- 33 12 28.70
LONGITUDE DEG-MIN-SEC	- 92 43 14.00	- 92 43 4.40	- 92 43 4.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	100	100
	3/8 IN. - 93	96	94
	NO. 4 - 88	92	88
	NO. 10 - 86	86	83
	NO. 40 - 83	79	78
	NO. 80 - 78	62	56
	NO. 200 - 42	36	35
LIQUID LIMIT	- 28	- ND	- ND
PLASTICITY INDEX	- 12	- NP	- NP
AASHTO SOIL	- A-6(2)	- A-4(0)	- A-2-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 27.4	- 11.9	- 6.6
ACHMSC (IN)	- --	- 6.0W	- 1.5
ACHMBC (IN)	- --	- 3.0	- 1.5
AGG.BASE CRS. CL7 (IN)	- --	- 8.0	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 10/09/15	SEQUENCE NO.	- 2
JOB NUMBER	- CA0706	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	- 70
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- AIRPORT DR. - HWY.82B (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 09/22/15
LOCATION	- UNION COUNTY	DATE RECEIVED	- 09/23/15
SAMPLED BY	- D.DICKERSON	DATE TESTED	- 10/09/15
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	- 20153022	-	-
SAMPLE ID	- RV527	-	-
TEST STATUS	- INFORMATION ONLY	-	-
STATION	- 379+00	-	-
LOCATION	- 25' LT	-	-
DEPTH IN FEET	- 0-5	-	-
MAT'L COLOR	- BROWN	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 12 29.20	-	-
LONGITUDE DEG-MIN-SEC	- 92 43 14.00	-	-
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	-
	3/8 IN.	- 96	-
	NO. 4	- 95	-
	NO. 10	- 94	-
	NO. 40	- 94	-
	NO. 80	- 92	-
	NO. 200	- 53	-
LIQUID LIMIT	- 29	-	-
PLASTICITY INDEX	- 13	-	-
AASHTO SOIL	- A-6 (4)	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265