

ARKANSAS DEPARTMENT OF TRANSPORTATION



**SUBSURFACE INVESTIGATION**

STATE JOB NO. 110622

FEDERAL AID PROJECT NO. NHPP-0019(48)

CHERRY VALLEY – POINSETT CO. LINE (PASSING LANE) (S)

STATE HIGHWAY 1 SECTION 14

IN \_\_\_\_\_ CROSS \_\_\_\_\_ COUNTY

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



ARKANSAS DEPARTMENT OF TRANSPORTATION

ArDOT.gov | IDriveArkansas.com | Scott E. Bennett, P.E., Director

MATERIALS DIVISION

11301 West Baseline Road | P.O. Box 2261 | Little Rock, AR 72203-2261 | Phone: 501.569.2185 | Fax: 501.569.2368

April 2, 2018

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 110622
Cherry Valley – Poinsett Co. Line (Passing Lanes)(S)
Route 1 Section 14
Cross County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of adding a northbound passing lane. Samples were taken in the existing travel lane, shoulder, and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of low plasticity clayey sands. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction.

Based on currently available cross-sections the maximum embankment height is less than 5 feet. Prior to embankment construction the wet unstable organic material in the ditch line should be undercut, anticipated to be no more than 2 feet. The embankment may be constructed with locally available unspecified material utilizing the 4:1 slope configuration shown.

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 Judsonia.
2. Asphalt Concrete Hot Mix

Table with 3 columns: Type, PG 64-22 Asphalt Cement %, Mineral Aggregate %. Rows: Surface Course, Binder Course, Base Course.

Table with 3 columns: Type, PG 70-22 Asphalt Cement %, Mineral Aggregate %. Rows: Surface Course, Binder Course, Base Course.

<b>PG 76-22</b>		
<b>Type</b>	<b>Asphalt Cement %</b>	<b>Mineral Aggregate %</b>
Surface Course	5.3	94.7
Binder Course	4.3	95.7
Base Course	3.8	96.2



Michael C. Benson  
Materials Engineer

MCB:pt:bjj  
Attachment

cc: State Constr. Eng. – Master File Copy  
District 1 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 = 03/20/2018  
JOB NUMBER - 110622

SEQUENCE NO. - 1  
MATERIAL CODE - SSRV  
SPEC. YEAR - 2014  
SUPPLIER ID. - 1  
COUNTY/STATE - 19  
DISTRICT NO. - 01

JOB NAME - CHERRY VALLEY-POINSETT CO.LINE (PASSING LANES) (S)

\*\*\*\*\*  
\* STATION LIMITS R-VALUE AT 240 psi \*  
\*\*\*\*\*

BEGIN JOB - END JOB 8

RESILIENT MODULUS  
STA. 113 + 00 8233

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REMARKS -

AASHTO TESTS : T190

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

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

<b>Job No.</b>	110622	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	1/25/18	<b>Station No.:</b>	113+00
<b>Date Tested:</b>	February 13, 2018	<b>Location:</b>	24LT
<b>Name of Project:</b>	CHERRY VALLEY - POINSETT CO. LINE (PASSING LANES)(S)		
<b>County:</b>	<b>Code:</b> 19	<b>Name:</b> CROSS	
<b>Sampled By:</b>	THORNTON	<b>Depth:</b>	0-5
<b>Lab No.:</b>	20180154	<b>AASHTO Class:</b>	A-4 (3)
<b>Sample ID:</b>	RV27	<b>Material Type (1 or 2):</b>	2
<b>LATITUDE:</b>		<b>LONGITUDE:</b>	

**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	3.94
Middle	3.93
Bottom	3.93
Average	3.93
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):	12.08
Initial Volume, AoLo (cu. in):	96.86

**3. Soil Specimen Weight:**

Weight of Wet Soil Used (g):	3212.60
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**4. Soil Properties:**

Optimum Moisture Content (%):	15.2
Maximum Dry Density (pcf):	110
95% of MDD (pcf):	104.5
In-Situ Moisture Content (%):	N/A

**5. Specimen Properties:**

Wet Weight (g):	3212.60
Compaction Moisture content (%):	15.3
Compaction Wet Density (pcf):	126.38
Compaction Dry Density (pcf):	109.61
Moisture Content After Mr Test (%):	15.3

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

**7. Resilient Modulus, Mr:** 8590(Sc)<sup>-0.12546(S3)</sup><sup>0.30061</sup>

**8. Comments**

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**9. Tested By:** GW **Date:** February 13, 2018

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

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

**Job No.** 110622 **Material Code** SSRVPS  
**Date Sampled:** 1/25/18 **Station No.:** 113+00  
**Date Tested:** February 13, 2018 **Location:** 24'LT  
**Name of Project:** CHERRY VALLEY - POINSETT CO. LINE (PASSING LANES)(S)

**County:** Code: 19 **Name:** CROSS  
**Sampled By:** THORNTON **Depth:** 0-5  
**Lab No.:** 20180154 **AASHTO Class:** A-4 (3)  
**Sample ID:** RV27 **Material Type (1 or 2):** 2  
**LATTITUDE:** **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load		Actual Applied Cyclic Load		Actual Applied Contact Load	Actual Applied Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
			P <sub>max</sub> lbs	P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>cyclic</sub> lbs							
DESIGNATION	S <sub>3</sub>	S <sub>cyclic</sub> psi	P <sub>max</sub> lbs	P <sub>max</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>cyclic</sub> lbs	P <sub>contact</sub> lbs	S <sub>max</sub> psi	S <sub>cyclic</sub> psi	S <sub>contact</sub> psi	H <sub>avg</sub> in	ε <sub>r</sub> in/in	M <sub>r</sub> psi
UNIT	psi	psi	lbs	lbs	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.0	22.2	2.8	2.8	2.8	2.1	1.8	0.2	0.00110	0.00014	13,475
Sequence 2	6.0	4.0	47.1	44.3	2.8	2.8	3.9	3.9	3.7	0.2	0.00229	0.00029	12,839
Sequence 3	6.0	6.0	69.8	66.2	3.6	3.6	5.8	5.8	5.5	0.3	0.00358	0.00045	12,282
Sequence 4	6.0	8.0	93.4	87.4	6.0	6.0	7.7	7.7	7.2	0.5	0.00504	0.00063	11,509
Sequence 5	6.0	10.0	117.2	108.7	8.4	8.4	9.7	9.7	9.0	0.7	0.00648	0.00081	11,144
Sequence 6	4.0	2.0	24.9	22.1	2.8	2.8	2.1	2.1	1.8	0.2	0.00122	0.00015	11,993
Sequence 7	4.0	4.0	46.6	43.7	2.9	2.9	3.9	3.9	3.6	0.2	0.00264	0.00033	10,987
Sequence 8	4.0	6.0	67.9	65.1	2.9	2.9	5.6	5.6	5.4	0.2	0.00422	0.00053	10,236
Sequence 9	4.0	8.0	91.5	86.4	5.1	5.1	7.6	7.6	7.2	0.4	0.00574	0.00072	9,996
Sequence 10	4.0	10.0	115.3	107.7	7.6	7.6	9.5	9.5	8.9	0.6	0.00729	0.00091	9,817
Sequence 11	2.0	2.0	24.7	21.9	2.8	2.8	2.0	2.0	1.8	0.2	0.00146	0.00018	9,956
Sequence 12	2.0	4.0	45.8	43.0	2.8	2.8	3.8	3.8	3.6	0.2	0.00317	0.00040	9,020
Sequence 13	2.0	6.0	66.6	63.8	2.8	2.8	5.5	5.5	5.3	0.2	0.00498	0.00062	8,503
Sequence 14	2.0	8.0	88.5	84.2	4.3	4.3	7.3	7.3	7.0	0.4	0.00673	0.00084	8,314
Sequence 15	2.0	10.0	111.7	105.1	6.7	6.7	9.3	9.3	8.7	0.6	0.00848	0.00106	8,233

TESTED BY \_\_\_\_\_ DATE February 13, 2018  
 REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_

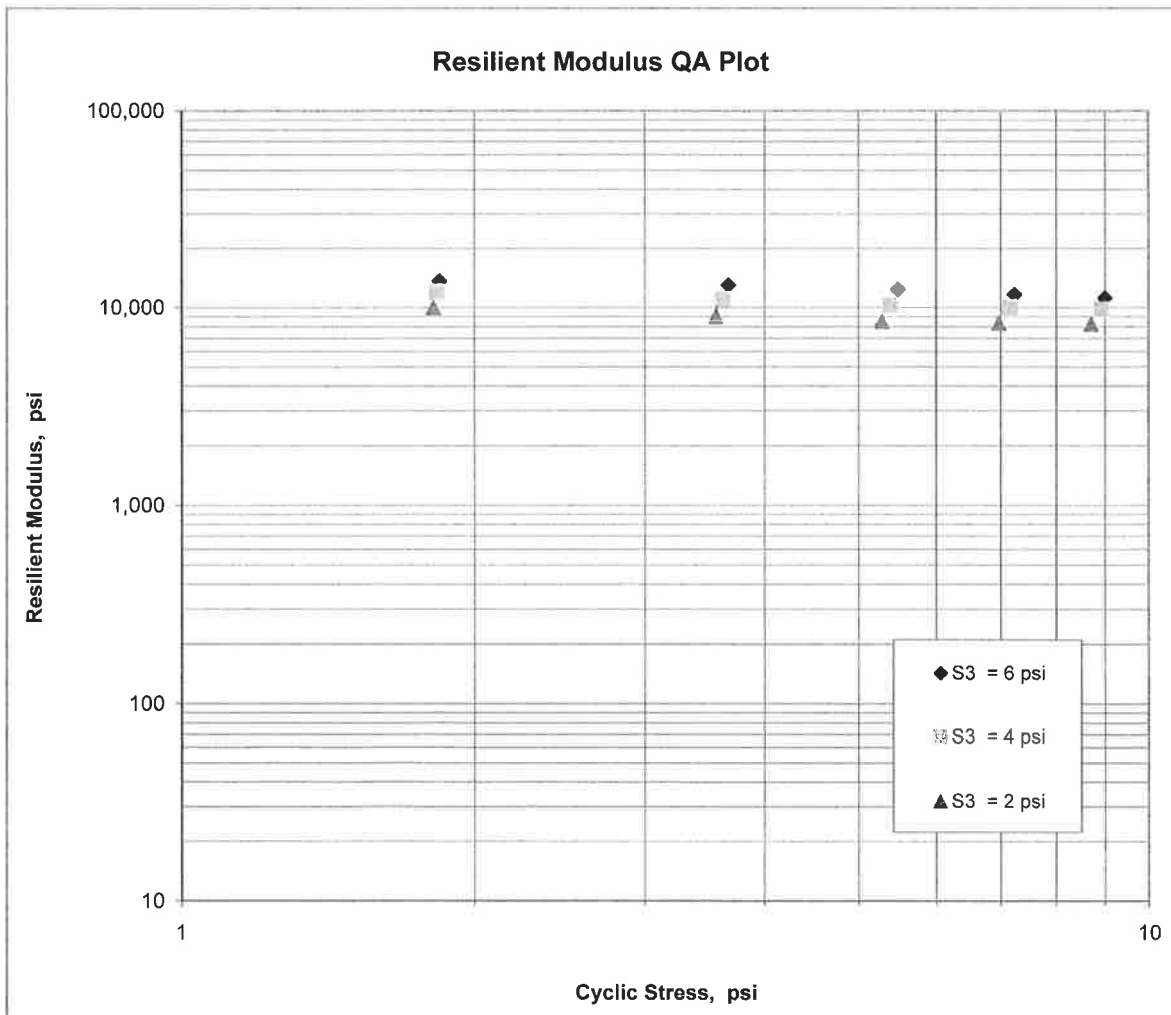
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
MATERIALS DIVISION**

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

<b>Job No.</b>	110622	<b>Material Code</b>	SSRVPS
<b>Date Sampled:</b>	1/25/18	<b>Station No.:</b>	113+00
<b>Date Tested:</b>	February 13, 2018	<b>Location:</b>	24LT
<b>Name of Project:</b>	CHERRY VALLEY - POINSETT CO. LINE (PASSING LANES)(S)		
<b>County:</b>	<b>Code:</b> 19	<b>Name:</b>	CROSS
<b>Sampled By:</b>	THORNTON	<b>Depth:</b>	0-5
<b>Lab No.:</b>	20180154	<b>AASHTO Class:</b>	A-4 (3)
<b>Sample ID:</b>	RV27	<b>Material Type (1 or 2):</b>	2
<b>LATITUDE:</b>		<b>LONGITUDE:</b>	

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

$K_1 = \underline{8,590}$   
 $K_2 = \underline{-0.12546}$   
 $K_5 = \underline{0.30061}$   
 $R^2 = \underline{0.99}$









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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 03/20/18 SEQUENCE NO. - 3  
JOB NUMBER - 110622 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 - 19  
SUPPLIER NAME - STATE DISTRICT NO. - 01  
NAME OF PROJECT - CHERRY VALLEY-POINSETT CO.LINE (PASSING LANES) (S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CROSS, COUNTY DATE SAMPLED - 01/25/18  
SAMPLED BY - THORNTON DATE RECEIVED - 01/25/18  
SAMPLE FROM - TEST HOLE DATE TESTED - 03/20/18  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20180136	20180137	20180138
SAMPLE ID	S9	S10	S11
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	121+00	121+00	121+00
LOCATION	06 RT	16 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	35 25 25.10	35 25 25.00	35 25 24.90
LONGITUDE DEG-MIN-SEC	90 45 6.40	90 45 6.40	90 45 6.40
% PASSING			
2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	98		
NO. 4	97	100	100
NO. 10	95		
NO. 40	92		
NO. 80	87		
NO. 200	82	98	92
LIQUID LIMIT	23	29	27
PLASTICITY INDEX	03	08	06
AASHTO SOIL	A-4 (1)	A-4 (7)	A-4 (5)
UNIFIED SOIL			
% MOISTURE CONTENT	18.9	24.1	22.4
ACHMSC (IN)	7.0WX	5.25X	---
ACHMBC (IN)	2.5	4.0	---
AGG.BASE CRS CL-7 (IN)	2.0	4.0	---

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 - 03/20/18 SEQUENCE NO. - 4  
JOB NUMBER - 110622 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 - 19  
SUPPLIER NAME - STATE DISTRICT NO. - 01  
NAME OF PROJECT - CHERRY VALLEY-POINSETT CO.LINE (PASSING LANES) (S)  
PROJECT ENGINEER - NOT APPLICABLE  
PIT/QUARRY - ARKANSAS  
LOCATION - CROSS, COUNTY DATE SAMPLED - 01/25/18  
SAMPLED BY - THORNTON DATE RECEIVED - 01/25/18  
SAMPLE FROM - TEST HOLE DATE TESTED - 03/20/18  
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20180139	20180140	20180141
SAMPLE ID	S12	S13	S14
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	129+00	129+00	129+00
LOCATION	06 LT	16 LT	24 LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	GRAY	GRAY	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 25 33.00	35 25 32.90	35 25 32.90
LONGITUDE DEG-MIN-SEC	90 45 6.50	90 45 6.80	90 45 6.90
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	-	100
3/8 IN.	99	100	99
NO. 4	95	98	96
NO. 10	92	96	91
NO. 40	87	91	84
NO. 80	83	88	80
NO. 200	80	87	79
LIQUID LIMIT	22	25	25
PLASTICITY INDEX	05	06	06
AASHTO SOIL	A-4 (2)	A-4 (4)	A-4 (3)
UNIFIED SOIL			
% MOISTURE CONTENT	19.6	18.5	24.2
ACHMSC (IN)	2.5W	2.0	---
ACHMSC (IN)	3.0X	1.0X	---
ACHMSC (IN)	2.5	3.5	---
ACHMBC (IN)	3.0	---	---
AGG.BASE CRS CL-7 (IN)	4.0	4.0	---

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 - 03/20/18 SEQUENCE NO. - 8  
 JOB NUMBER - 110622 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 - 19  
 SUPPLIER NAME - STATE DISTRICT NO. - 01  
 NAME OF PROJECT - CHERRY VALLEY-POINSETT CO.LINE (PASSING LANES) (S)  
 PROJECT ENGINEER - NOT APPLICABLE  
 PIT/QUARRY - ARKANSAS  
 LOCATION - CROSS, COUNTY DATE SAMPLED - 01/25/18  
 SAMPLED BY - THORNTON DATE RECEIVED - 01/25/18  
 SAMPLE FROM - TEST HOLE DATE TESTED - 03/20/18  
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20180151	20180152	20180153
SAMPLE ID	S24	S25	S26
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	161+00	161+00	161+00
LOCATION	06 LT	16 LT	24 LT
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	35 26 4.80	35 26 4.70	35 26 4.70
LONGITUDE DEG-MIN-SEC	90 45 6.30	90 45 6.50	90 45 6.60
% PASSING			
2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	99	98	98
NO. 4	94	94	94
NO. 10	91	90	91
NO. 40	85	82	84
NO. 80	81	75	78
NO. 200	79	72	75
LIQUID LIMIT	27	25	26
PLASTICITY INDEX	08	06	05
AASHTO SOIL	A-4 (5)	A-4 (2)	A-4 (2)
UNIFIED SOIL			
% MOISTURE CONTENT	18.0	19.3	24.9
ACHMSC (IN)	4.0W	7.0W	---
ACHMSC (IN)	3.0X	---	---
ACHMBC (IN)	---	1.5	---
AGG.BASE CRS CL-7 (IN)	4.0	3.0	---

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED





STA.#	LOC.	DEPTH	COLOR	#4 #10 #40 #80 #200					L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
113+00	24 LT	0-5	BROWN	82	79	73	68	65	27	08	A-4(3)	RV27	
121+00	16 RT	0-5	BR/GR	100				98	29	08	A-4(7)	S10	24.1
121+00	24 RT	0-5	BROWN	100				92	27	06	A-4(5)	S11	22.4
129+00	06 LT	0-5	GRAY	95	92	87	83	80	22	05	A-4(2)	S12	19.6
129+00	16 LT	0-5	GRAY	98	96	91	88	87	25	06	A-4(4)	S13	18.5
129+00	24 LT	0-5	GRAY	96	91	84	80	79	25	06	A-4(3)	S14	24.2
137+00	06 RT	0-5	BROWN	97	92	83	76	73	25	06	A-4(2)	S15	19.1
137+00	16 RT	0-5	BROWN	97	93	88	82	79	23	05	A-4(2)	S16	22.7
137+00	24 RT	0-5	BROWN	97	95	88	80	77	26	05	A-4(2)	S17	24.3
145+00	06 LT	0-5	BROWN	100				91	ND	NP	A-4(0)	S18	21.4
145+00	16 LT	0-5	GRAY	98	95	90	85	81	24	05	A-4(2)	S19	18.4
145+00	24 LT	0-5	GRAY	89	84	73	62	59	24	05	A-4(1)	S20	20.3
153+00	06 RT	0-5	BR/GR	98	96	91	86	82	24	05	A-4(2)	S21	19.1
153+00	16 RT	0-5	BR/GR	90	86	78	72	68	24	07	A-4(2)	S22	18.2
153+00	24 RT	0-5	GRAY	93	91	85	77	72	21	02	A-4(0)	S23	21.7
161+00	06 LT	0-5	BR/GR	94	91	85	81	79	27	08	A-4(5)	S24	18
161+00	16 LT	0-5	BR/GR	94	90	82	75	72	25	06	A-4(2)	S25	19.3
161+00	24 LT	0-5	BR/GR	94	91	84	78	75	26	05	A-4(2)	S26	24.9
105+00	06 RT	0-5	BROWN	91	84	73	66	64	27	10	A-4(4)	S3	23.6
105+00	16 RT	0-5	GRAY	98	96	92	90	88	29	11	A-6(8)	S4	25
105+00	24 RT	0-5	BROWN	97	92	82	74	69	26	07	A-4(3)	S5	27.5
113+00	06 LT	0-5	BROWN	97	93	87	82	79	25	07	A-4(4)	S6	20.9
113+00	16 LT	0-5	BROWN	91	86	76	68	65	25	09	A-4(3)	S7	17.3
113+00	24 LT	0-5	BROWN	99	94	90	88	87	34	16	A-6(13)	S8	24.2
121+00	06 RT	0-5	BR/GR	97	95	92	87	82	23	03	A-4(1)	S9	18.9

**JOB:** 110622

**Arkansas State Highway Transportation Department**

**DATE TESTED**

**JOB NAME:** CHERRY VALLEY-POINSETT CO.LINE (PASSING LANES)(S)

**Materials Division**

3/20/2018

**COUNTY NO.** 19

**Michael Benson, Materials Engineer**

**STA.# LOC.** PAVEMENT SOUNDINGS

105+00	06 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	---	---	---
		8.5W	2.0				
105+00	16 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	3.0	---	---
		1.25	4.0				
105+00	24 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	---	---	---
		---	---				
113+00	06 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	8.0	---	---
		2.0	4.0X				
113+00	16 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	3.0	---	---
		5.0	---				
113+00	24 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	---	---	---
		---	---				
121+00	06 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	2.0	---	---
		7.0WX	2.5				
121+00	16 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	4.0	---	---
		5.25X	4.0				
121+00	24 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	---	---	---
		---	---				
129+00	06 LT	ACHMSC	ACHMSC	ACHMBC	2.5	ACHMBC	AGG.BASE CRS CL-7
		2.5W	3.0X			3.0	4.0
129+00	16 LT	ACHMSC	ACHMSC	ACHMBC	3.5	ACHMBC	AGG.BASE CRS CL-7
		2.0	1.0X			---	4.0
129+00	24 LT	ACHMSC	ACHMSC	ACHMBC	---	ACHMBC	AGG.BASE CRS CL-7
		---	---			---	---
137+00	06 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	3.0	---	---
		5.0	4.0				
137+00	16 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	6.0	---	---
		6.5W	1.0				
137+00	24 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	---	---	---
		---	---				
145+00	06 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	4.0	---	---
		8.0W	1.5				
145+00	16 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	3.0	---	---
		7.0	---				

**comments:** W=MULTIPLE LAYERS, X=STRIPPED

**PAVEMENT SOUNDINGS**

**STA.# LOC.**

145+00	24 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		---	---	---	
153+00	06 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
	7.0W	---	5.0	3.0	
153+00	16 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
	5.0	---	3.0	3.0	
153+00	24 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
	---	---	---	---	
161+00	06 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	
	4.0W	---	3.0X	4.0	
161+00	16 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	
	7.0W	---	---	1.5	
161+00	24 LT	ACHMSC	ACHMSC	AGG.BASE CRS CL-7	
	---	---	---	---	

**comments:** W=MULTIPLE LAYERS, X=STRIPPED