

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 012275

FEDERAL AID PROJECT NO. STPF-0076(135)

CADDO VALLEY – GARLAND CO. LINE (PASSING LANES) (S)

STATE HIGHWAY 7 SECTION 7 & 8

IN CLARK & HOT SPRING 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

May 6, 2019

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 012275
Caddo Valley – Garland Co. Line (Passing Lanes) (S)
Routes 7 Sections 7 & 8
Clark and Hot Spring Counties

Attached is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of widening for passing lanes at four locations on Highway 7. Samples were obtained in the existing travel lanes, shoulder and ditch line.

Laboratory results indicate the subgrade soils consist primarily of moderately plastic sandy clay with isolated locations of highly plastic clay. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. Rock was encountered at several locations within the project limits, these locations are listed below in Table 1.

Table 1 Location and Depth of Rock

Log mile	Location from Centerline	Depth (ft.)
4.53	6' Rt.	3.5
4.78	6', 14' & 19' Rt.	4.0, 4.0, 1.0
5.28	6', 14' & 22' Lt.	4.0, 2.5, 2.5
5.53	6' Rt.	3.5
5.73	6' Lt.	3.5
7.55	21' Lt.	2.0

Cross sections are not currently available. Earthwork recommendations will be made upon request when plans are further developed and cross sections become available.

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

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

2. Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	4.9	95.1
Binder Course	4.0	96.0
Base Course	3.6	96.4



Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
District 6 Engineer
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 - 04/18/2019
JOB NUMBER - 012275

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

JOB NAME - CADD0 VALLEY - GARLAND CO. LINE (PASSING LANES) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 7

RESILIENT MODULUS	
STA. LM 1.60	8486
STA. LM 3.50	7451
STA. LM 4.53	4917
STA. LM 8.05	7715

REMARKS -
-

AASHTO TESTS : T190

JOB: 012275

Arkansas State Highway Transportation Department

JOB NAME: CADD VALLEY - GARLAND CO. LINE (PASSING LANES)(S)

Materials Division

COUNTY NO. 7 DATE TESTED 4/19/2019

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					
LM 1.60	35 RT	0-5	RED	73	63	55	50	39	22	6	A-4(0)	RV85	
LM 3.50	21 LT	0-5	BROWN	87	81	76	72	61	22	5	A-4(1)	RV86	
LM 4.53	21 RT	0-5	BROWN	64	58	52	48	39	23	6	A-4(0)	RV87	
LM 8.05	24 LT	0-5	BROWN	75	69	66	61	48	ND	NP	A-4(0)	RV88	
LM .60	06 RT	0-5	GRAY	97	93	89	74	53	ND	NP	A-4(0)	S17	12.3
LM .60	19 RT	0-5	GRAY	95	91	87	67	45	ND	NP	A-4(0)	S18	13.9
LM .60	35 RT	0-5	GRAY	96	93	89	74	52	ND	NP	A-4(0)	S19	14.4
LM .85	05 LT	0-5	GRAY	97	92	87	68	40	ND	NP	A-4(0)	S20	13.8
LM .85	18 LT	0-5	GRAY	88	81	77	72	21	ND	NP	A-2-4(0)	S21	14.3
LM .85	34 LT	0-5	GRAY	86	80	75	65	33	ND	NP	A-2-4(0)	S22	13
LM 1.10	05 RT	0-5	BROWN	100				91	43	23	A-7-6(22)	S23	11.6
LM 1.10	18 RT	0-5	BROWN	100				94	35	15	A-6(14)	S24	11.2
LM 1.10	37 RT	0-5	BROWN	95	89	80	74	65	33	16	A-6(8)	S25	23.4
LM 1.35	06 LT	0-5	BROWN	95	89	83	80	76	33	14	A-6(9)	S26	33.6
LM 1.35	18 LT	0-5	GRAY	95	89	82	76	69	32	13	A-6(7)	S27	22.4
LM 1.35	34 LT	0-5	BROWN	96	91	85	81	74	26	9	A-4(4)	S28	19.6
LM 1.60	06 RT	0-5	RED	97	92	83	79	75	49	24	A-7-6(18)	S29	18.5
LM 1.60	18 RT	0-5	RED	99	93	88	86	84	50	24	A-7-6(22)	S30	18
LM 1.60	35 RT	0-5	RED	96	91	86	84	80	36	15	A-6(11)	S31	16.4
LM 1.80	06 LT	0-5	GRAY	89	83	77	73	66	34	16	A-6(7)	S32	21.2
LM 1.80	18 LT	0-5	GRAY	96	92	87	81	70	30	13	A-6(7)	S33	20.4
LM 1.80	37 LT	0-5	BROWN	91	86	82	74	58	ND	NP	A-4(0)	S34	25.2
LM 2.75	05 RT	0-5	BROWN	99	98	95	93	83	29	10	A-4(7)	S35	17.6
LM 2.75	13 RT	0-5	BROWN	95	90	86	81	64	21	5	A-4(1)	S36	16.8
LM 2.75	22 RT	0-5	BROWN	85	78	71	65	47	ND	NP	A-4(0)	S37	17.9
LM 3.00	05 LT	0-5	BROWN	99	96	92	81	58	19	5	A-4(0)	S38	15.7

comments: W=MULTIPLE LAYERS, X=STRIPPED

Monday, May 06, 2019

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
LM 3.00	14 LT	0-5	BROWN	99	94	84	75	50	19	5	A-4(0)	S39	14.9
LM 3.00	21 LT	0-5	BROWN	98	92	85	75	45	ND	NP	A-4(0)	S40	17.4
LM 3.25	06 RT	0-5	BROWN	100	99	99	94	70	20	5	A-4(1)	S41	10.2
LM 3.25	14 RT	0-5	BROWN	99	97	97	92	69	ND	NP	A-4(0)	S42	18.3
LM 3.25	24 RT	0-5	BROWN	93	87	80	72	51	ND	NP	A-4(0)	S43	15.3
LM 3.50	06 LT	0-5	BROWN	86	80	76	67	49	20	4	A-4(0)	S44	20.1
LM 3.50	21 LT	0-5	BROWN	77	71	67	60	44	21	3	A-4(0)	S45	17.9
LM 3.75	06 RT	0-5	RD/BR	99	98	96	87	66	ND	NP	A-4(0)	S46	15.5
LM 3.75	24 RT	0-5	RD/BR	89	85	82	74	54	ND	NP	A-4(0)	S47	16
LM 3.95	06 LT	0-5	BROWN	97	94	91	86	66	21	5	A-4(1)	S48	19.7
LM 3.95	20 LT	0-5	BROWN	66	57	50	43	30	ND	NP	A-2-4(0)	S49	20.5
LM 4.53	06 RT	0-3.5z	BROWN	96	90	83	78	63	27	12	A-6(5)	S50	13.4
LM 4.53	14 RT	0-5	BROWN	94	86	79	72	56	20	5	A-4(0)	S51	14.1
LM 4.53	21 RT	0-5	BROWN	77	72	69	64	50	ND	NP	A-4(0)	S52	16.2
LM 4.78	06 LT	0-4z	BROWN	98	90	82	75	58	19	6	A-4(1)	S53	5.7
LM 4.78	14 LT	0-4z	BROWN	90	80	73	60	42	ND	NP	A-4(0)	S54	11
LM 4.78	19 LT	0-1z	BROWN	90	81	74	61	36	ND	NP	A-4(0)	S55	7.2
LM 5.03	06 RT	0-5	BROWN	97	94	90	85	70	20	5	A-4(1)	S56	21.1
LM 5.03	14 RT	0-5	BROWN	94	91	86	80	65	22	7	A-4(2)	S57	23.1
LM 5.03	20 RT	0-5	BROWN	62	58	55	50	39	ND	NP	A-4(0)	S58	18.6
LM 5.28	06 LT	0-4z	BROWN	99	98	95	90	83	47	24	A-7-6(21)	S59	9.5
LM 5.28	14 LT	0-2.5z	BROWN	79	65	57	46	28	ND	NP	A-2-4(0)	S60	17.5
LM 5.28	22 LT	0-2.5z	BROWN	94	89	82	67	43	ND	NP	A-4(0)	S61	17.4
LM 5.53	06 RT	0-3.5z	BROWN	98	95	90	84	77	41	22	A-7-6(16)	S62	20.3
LM 5.53	14 RT	0-5	BROWN	98	95	90	78	55	23	9	A-4(2)	S63	15.9
LM 5.53	19 RT	0-5	BROWN	68	63	57	50	37	23	8	A-4(0)	S64	23.1
LM 5.73	06 LT	0-3.5z	GRAY	98	94	91	86	69	29	13	A-6(7)	S65	18
LM 5.73	14 LT	0-5	BROWN	98	95	92	88	75	33	14	A-6(9)	S66	18.7

comments: W=MULTIPLE LAYERS, X=STRIPPED

Monday, May 06, 2019

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STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
LM 5.73	21 LT	0-5	RED	78	70	61	53	37	23	6	A-4(0)	S67	14.9
LM 7.30	06 RT	0-5	RED	97	95	91	89	81	30	13	A-6(9)	S68	18.3
LM 7.30	15 RT	0-5	RED	92	86	82	79	63	28	11	A-6(4)	S69	25.5
LM 7.30	23 RT	0-5	GRAY	94	91	89	85	64	21	15	A-6(5)	S70	19.3
LM 7.55	06 LT	0-5	BR/GR	93	85	75	69	60	42	20	A-7-6(10)	S71	25.4
LM 7.55	15 LT	0-5	BR/GR	98	96	89	81	73	53	29	A-7-6(21)	S72	16.9
LM 7.55	21 LT	0-2z	BR/GR	69	55	42	35	27	ND	NP	A-2-4(0)	S73	15.7
LM 7.80	05 RT	0-5	BR/GR	99	96	87	82	78	44	21	A-7-6(16)	S74	29.2
LM 7.80	15 RT	0-5	BR/GR	96	93	87	83	79	58	30	A-7-6(26)	S75	26.4
LM 7.80	25 RT	0-5	BR/GR	100				90	55	28	A-7-6(29)	S76	22.8
LM 8.05	05 LT	0-5	BROWN	97	90	84	78	62	22	7	A-4(2)	S77	14.8
LM 8.05	14 LT	0-5	BR/GR	96	87	78	71	53	19	4	A-4(0)	S78	15.9
LM 8.05	24 LT	0-5	BROWN	88	81	73	67	53	21	6	A-4(0)	S79	16.4
LM 8.30	05 RT	0-5	BROWN	95	90	83	79	66	22	7	A-4(2)	S80	10.8
LM 8.30	15 RT	0-5	BROWN	69	59	49	43	35	23	6	A-2-4(0)	S81	10.3
LM 8.30	22 RT	0-5	BR/GR	43	30	21	17	11	ND	NP	A-1-9(0)	S82	11.8
LM 8.50	06 LT	0-5	BR/GR	94	86	77	72	64	28	10	A-4(4)	S83	22.2
LM 8.50	15 LT	0-5	BROWN	89	82	75	71	64	28	10	A-4(4)	S84	22.1

PAVEMENT SOUNDINGS

STA.# LOC.

LM 1.80	37 LT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 2.75	05 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 2.75	13 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 2.75	22 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 3.00	05 LT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.00	14 LT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.00	21 LT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.25	06 RT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.25	14 RT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.25	24 RT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.50	06 LT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.50	21 LT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.75	06 RT	ACHM SC	ACHM SC	AGG. BASE CRS. CL-5	---
LM 3.75	24 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 3.95	06 LT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 3.95	20 LT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 4.53	06 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 4.53	14 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---
LM 4.53	21 RT	ACHM SC	ACHM BC	AGG. BASE CRS. CL-5	---

comments: W=MULTIPLE LAYERS, X=STRIPPED

STA.# LOC.

PAVEMENT SOUNDINGS

LM 4.78	06 LT	ACHM SC 13.0W	ACHM BC 2.0	AGG. BASE CRS. CL-5 2.0
LM 4.78	14 LT	ACHM SC 8.75W	ACHM BC ---	AGG. BASE CRS. CL-5 4.0
LM 4.78	19 LT	ACHM SC ---	ACHM BC ---	AGG. BASE CRS. CL-5 ---
LM 5.03	06 RT	ACHM SC 12.0W		
LM 5.03	14 RT	ACHM SC 6.5W		
LM 5.03	20 RT	ACHM SC ---		
LM 5.28	06 LT	ACHM SC 10.0W		
LM 5.28	14 LT	ACHM SC 6.0W		
LM 5.28	22 LT	ACHM SC ---		
LM 5.53	06 RT	ACHM SC 11.5W		
LM 5.53	14 RT	ACHM SC 8.75W		
LM 5.53	19 RT	ACHM SC ---		
LM 5.73	06 LT	ACHM SC 9.5W		
LM 5.73	14 LT	ACHM SC 6.25W		
LM 5.73	21 LT	ACHM SC ---		
LM 7.30	06 RT	ACHM SC 10.0WX		
LM 7.30	15 RT	ACHM SC 4.75		
LM 7.30	23 RT	ACHM SC ---		
LM 7.55	06 LT	ACHM SC 2.5	ACHM SC 4.5X	ACHM SC 2.0

comments: W=MULTIPLE LAYERS, X=STRIPPED

Monday, May 06, 2019

STA.# LOC.

PAVEMENT SOUNDINGS

LM 7.55	15 LT	ACHM SC 5.5	ACHM SC ---	ACHM SC ---
LM 7.55	21 LT	ACHM SC ---	ACHM SC ---	ACHM SC ---
LM 7.80	05 RT	ACHM SC 4.0	ACHM SC 2.0X	ACHM SC 1.0
LM 7.80	15 RT	ACHM SC 5.0	ACHM SC ---	ACHM SC ---
LM 7.80	25 RT	ACHM SC ---	ACHM SC ---	ACHM SC ---
LM 8.05	05 LT	ACHM SC 4.0	ACHM SC 1.0X	ACHM SC 5.0
LM 8.05	14 LT	ACHM SC 6.5	ACHM SC ---	ACHM SC ---
LM 8.05	24 LT	ACHM SC ---	ACHM SC ---	ACHM SC ---
LM 8.30	05 RT	ACHM SC 9.25W		
LM 8.30	15 RT	ACHM SC 5.0		
LM 8.30	22 RT	ACHM SC ---		
LM 8.50	06 LT	ACHM SC 4.0	ACHM SC 1.0X	ACHM SC 3.5
LM 8.50	15 LT	ACHM SC 6.5	ACHM SC ---	ACHM SC ---

comments: W=MULTIPLE LAYERS, X=STRIPPED

Monday, May 06, 2019

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

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

Job No.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 1.60
Date Tested:	April 16, 2019	Location:	35'RT
Name of Project:	CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON	Depth:	0-5
Lab No.:	20190720	AASHTO Class:	A-4 (0)
Sample ID:	RV85	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	3.94
Bottom	3.96
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):	12.18
Initial Volume, AoLo (cu. in):	97.68

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3286.90
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4. Soil Properties:

Optimum Moisture Content (%):	12.5
Maximum Dry Density (pcf):	117.1
95% of MDD (pcf):	111.2
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3286.90
Compaction Moisture content (%):	12.6
Compaction Wet Density (pcf):	128.21
Compaction Dry Density (pcf):	113.86
Moisture Content After Mr Test (%):	12.5

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):	#VALUE!
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7. Resilient Modulus, Mr:	10425(Sc)^-0.24750(S3)^0.40093
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8. Comments

9. Tested By:

GW

Date: April 16, 2019

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

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

Job No. 012275

Date Sampled: 2/26/19

Date Tested: April 16, 2019

Name of Project: CADDO VALLEY - GARLAND CO. LINE (PASSING LANES)(S)

County: Code: 7 Name: CALHOUN

Sampled By: DICKERSON/BUNTON

Lab No.: 20190720

Sample ID: RV85

LATITUDE:

Material Code SSRVPS

Station No.: LM 1.60

Location: 35'RT

Depth: 0-5

AASHTO Class: A-4 (0)

Material Type (1 or 2): 2

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	25.2	22.4	2.8	2.1	1.8	0.2	0.00081	0.00010	18,245
Sequence 2	6.0	4.0	47.4	44.5	2.8	3.9	3.7	0.2	0.00180	0.00022	16,332
Sequence 3	6.0	6.0	69.9	66.3	3.6	5.7	5.4	0.3	0.00300	0.00037	14,567
Sequence 4	6.0	8.0	93.5	87.5	6.1	7.7	7.2	0.5	0.00446	0.00056	12,922
Sequence 5	6.0	10.0	117.1	108.6	8.5	9.6	8.9	0.7	0.00580	0.00072	12,328
Sequence 6	4.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00095	0.00012	15,487
Sequence 7	4.0	4.0	46.7	44.0	2.8	3.8	3.6	0.2	0.00221	0.00028	13,108
Sequence 8	4.0	6.0	68.0	65.2	2.8	5.6	5.4	0.2	0.00370	0.00046	11,603
Sequence 9	4.0	8.0	91.4	86.3	5.1	7.5	7.1	0.4	0.00525	0.00065	10,828
Sequence 10	4.0	10.0	115.0	107.4	7.6	9.4	8.8	0.6	0.00666	0.00083	10,611
Sequence 11	2.0	2.0	24.7	22.0	2.8	2.0	1.8	0.2	0.00120	0.00015	12,079
Sequence 12	2.0	4.0	45.7	42.9	2.8	3.8	3.5	0.2	0.00284	0.00035	9,950
Sequence 13	2.0	6.0	65.8	63.0	2.8	5.4	5.2	0.2	0.00465	0.00058	8,920
Sequence 14	2.0	8.0	88.2	84.0	4.3	7.2	6.9	0.3	0.00642	0.00080	8,606
Sequence 15	2.0	10.0	111.1	104.4	6.7	9.1	8.6	0.5	0.00810	0.00101	8,486

TESTED BY

GW

DATE

April 16, 2019

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. 012275	Material Code SSRVPS
Date Sampled: 2/26/19	Station No.: LM 1.60
Date Tested: April 16, 2019	Location: 35'RT
Name of Project: CADDO VALLEY - GARLAND CO. LINE (PASSING LANES)(S)	
County:	Code: 7 Name: CALHOUN
Sampled By: DICKERSON/BUNTON	Depth: 0-5
Lab No.: 20190720	AASHTO Class: A-4 (0)
Sample ID: RV85	Material Type (1 or 2): 2
LATITUDE:	LONGITUDE:

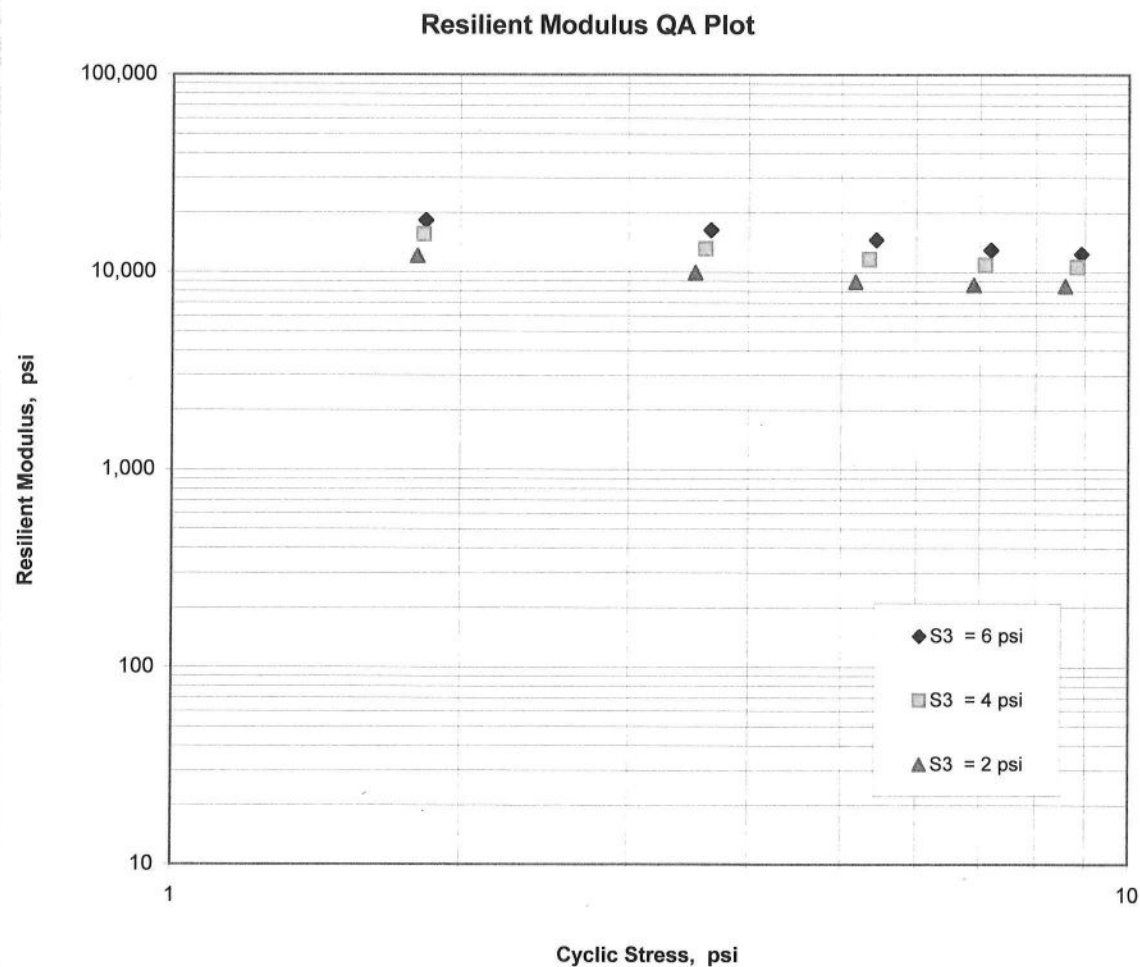
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = \frac{10,425}{}$$

$$K_2 = \frac{-0.24750}{}$$

$$K_5 = \frac{0.40093}{}$$

$$R^2 = \frac{0.99}{}$$



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

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

Job No.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 3.50
Date Tested:	April 16, 2019	Location:	21'LT
Name of Project:	CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON	Depth:	0-5
Lab No.:	20490721	AASHTO Class:	A-4 (1)
Sample ID:	RV86	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):	12.18
Initial Volume, AoLo (cu. in):	97.68

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3178.80
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4. Soil Properties:

Optimum Moisture Content (%):	15.1
Maximum Dry Density (pcf):	112.7
95% of MDD (pcf):	107.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3178.80
Compaction Moisture content (%):	15.3
Compaction Wet Density (pcf):	123.99
Compaction Dry Density (pcf):	107.54
Moisture Content After Mr Test (%):	15.2

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

7. Resilient Modulus, Mr: 13044(Sc)^{-0.35007}(S3)^{0.29066}

8. Comments

9. Tested By:

GW

Date: April 16, 2019

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

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

Job No. 012275 Material Code SSRVPS
 Date Sampled: 2/26/19 Station No.: LM 3.50
 Date Tested: April 16, 2019 Location: 21'LT
 Name of Project: CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)
 County: Code: 7 Name: CALHOUN
 Sampled By: DICKERSON/BUNTON Depth: 0-5
 Lab No.: 20490721 AASHTO Class: A-4 (1)
 Sample ID: RV86 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 Max. Axial Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Def. Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
DESIGNATION	S ₃	S _{cyclic}	P _{max}	P _{cyclic}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r
UNIT	psi	psi	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.1	22.4	2.1	1.8	0.2	0.00088	0.00011	16,824
Sequence 2	6.0	4.0	47.3	44.7	3.9	3.7	0.2	0.00195	0.00024	15,134
Sequence 3	6.0	6.0	69.8	66.4	5.7	5.4	0.3	0.00335	0.00042	13,039
Sequence 4	6.0	8.0	92.7	86.9	7.6	7.1	0.5	0.00524	0.00065	10,911
Sequence 5	6.0	10.0	115.2	106.9	9.5	8.8	0.7	0.00725	0.00090	9,704
Sequence 6	4.0	2.0	25.2	22.6	2.1	1.9	0.2	0.00099	0.00012	15,043
Sequence 7	4.0	4.0	47.1	44.4	3.9	3.6	0.2	0.00227	0.00028	12,900
Sequence 8	4.0	6.0	68.2	65.5	5.6	5.4	0.2	0.00390	0.00049	11,071
Sequence 9	4.0	8.0	90.6	85.6	7.4	7.0	0.4	0.00584	0.00073	9,642
Sequence 10	4.0	10.0	112.9	105.5	9.3	8.7	0.6	0.00797	0.00099	8,717
Sequence 11	2.0	2.0	25.1	22.5	2.1	1.8	0.2	0.00118	0.00015	12,567
Sequence 12	2.0	4.0	46.6	43.9	3.8	3.6	0.2	0.00273	0.00034	10,592
Sequence 13	2.0	6.0	66.8	64.2	5.5	5.3	0.2	0.00464	0.00058	9,106
Sequence 14	2.0	8.0	87.9	83.8	7.2	6.9	0.3	0.00682	0.00085	8,087
Sequence 15	2.0	10.0	110.5	103.9	9.1	8.5	0.5	0.00918	0.00114	7,451

TESTED BY _____ DATE April 16, 2019
 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.	012275	Material Code SSRVPS
Date Sampled:	2/26/19	Station No.: LM 3.50
Date Tested:	April 16, 2019	Location: 21'LT
Name of Project:	CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)	
County:	Code: 7	Name: CALHOUN
Sampled By:	DICKERSON/BUNTON	
Lab No.:	20490721	Depth: 0-5
Sample ID:	RV86	AASHTO Class: A-4 (1)
LATITUDE:		Material Type (1 or 2): 2
		LONGITUDE:

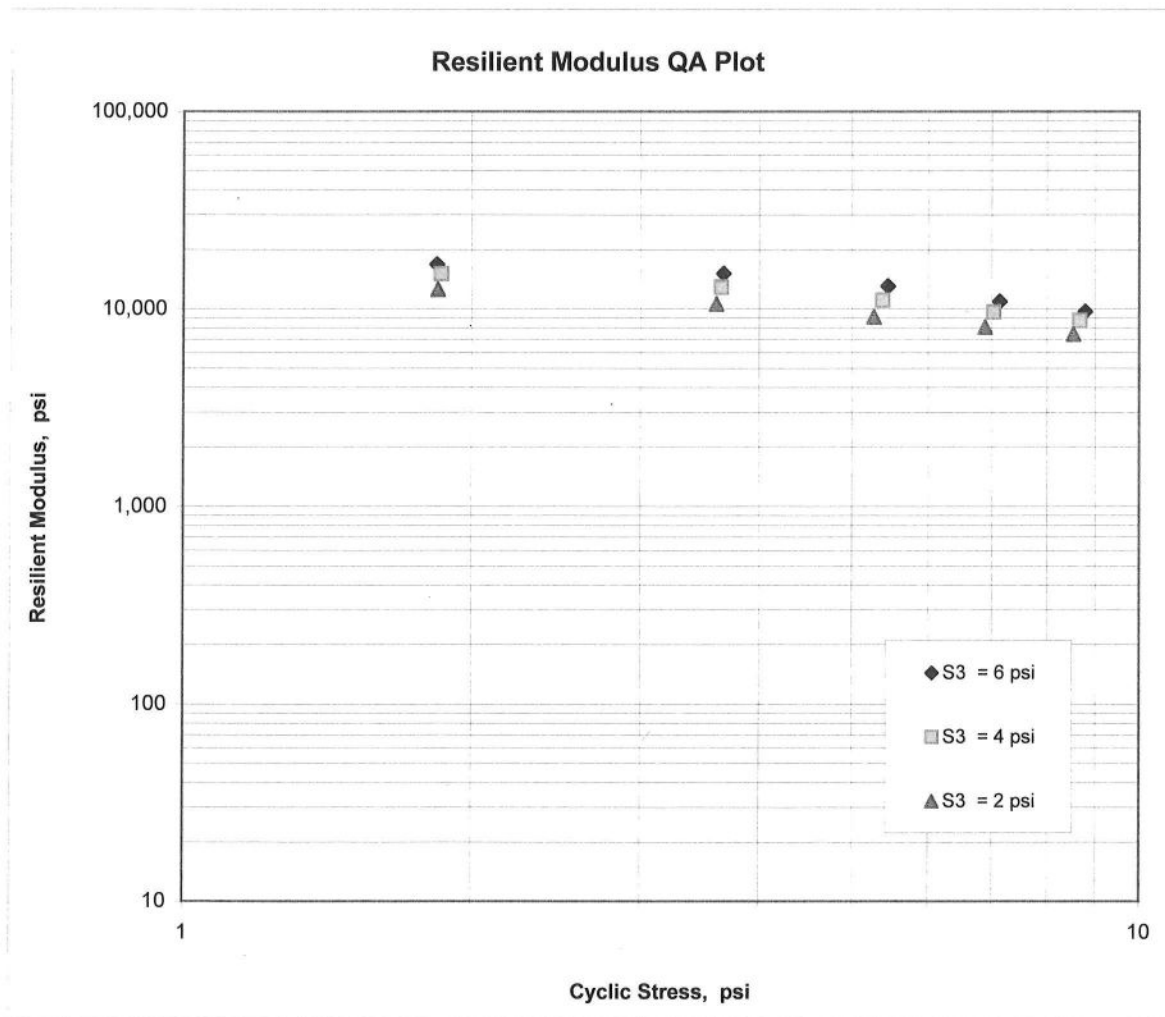
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = 13,044$$

$$K_2 = -0.35007$$

$$K_5 = 0.29066$$

$$R^2 = 0.97$$



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

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

Job No.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 4.53
Date Tested:	April 16, 2019	Location:	21'RT
Name of Project:	CADD VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON	Depth:	0-5
Lab No.:	20190722	AASHTO Class:	A-4 (0)
Sample ID:	RV87	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):	12.18
Initial Volume, AoLo (cu. in):	97.68

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3399.40
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4. Soil Properties:

Optimum Moisture Content (%):	14.2
Maximum Dry Density (pcf):	118.6
95% of MDD (pcf):	112.7
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3399.40
Compaction Moisture content (%):	14.4
Compaction Wet Density (pcf):	132.60
Compaction Dry Density (pcf):	115.91
Moisture Content After Mr Test (%):	14.3

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):	#VALUE!
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7. Resilient Modulus, Mr:	7145(Sc) ^{-0.40009} (S3) ^{0.50811}
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8. Comments

9. Tested By:

GW

Date: April 16, 2019

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

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

Job No. 012275

Date Sampled: 2/26/19

Date Tested: April 16, 2019

Name of Project: CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)

County: Code: 7 Name: CALHOUN

Sampled By: DICKERSON/BUNTON

Lab No.: 20190722

Sample ID: RV87

LATITUDE:

Material Code SSRVPS

Station No.: LM 4.53

Location: 21'RT

Depth: 0-5

AASHTO Class: A-4 (0)

Material Type (1 or 2): 2
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 UNIT	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	23.8	1.4	2.1	2.0	0.1	0.00102	0.00013	15,303
Sequence 2	6.0	4.0	47.7	46.4	1.3	3.9	3.8	0.1	0.00260	0.00032	11,751
Sequence 3	6.0	6.0	70.4	68.2	2.2	5.8	5.6	0.2	0.00481	0.00060	9,331
Sequence 4	6.0	8.0	93.6	89.0	4.6	7.7	7.3	0.4	0.00753	0.00094	7,785
Sequence 5	6.0	10.0	117.4	110.9	6.5	9.6	9.1	0.5	0.01015	0.00127	7,193
Sequence 6	4.0	2.0	25.1	23.4	1.8	2.1	1.9	0.1	0.00141	0.00018	10,889
Sequence 7	4.0	4.0	46.3	44.6	1.7	3.8	3.7	0.1	0.00392	0.00049	7,491
Sequence 8	4.0	6.0	67.0	65.0	2.0	5.5	5.3	0.2	0.00682	0.00085	6,274
Sequence 9	4.0	8.0	91.5	87.7	3.8	7.5	7.2	0.3	0.00952	0.00119	6,067
Sequence 10	4.0	10.0	115.6	109.3	6.3	9.5	9.0	0.5	0.01170	0.00146	6,151
Sequence 11	2.0	2.0	24.8	23.1	1.6	2.0	1.9	0.1	0.00186	0.00023	8,197
Sequence 12	2.0	4.0	44.8	42.9	1.9	3.7	3.5	0.2	0.00505	0.00063	5,590
Sequence 13	2.0	6.0	65.0	63.2	1.8	5.3	5.2	0.1	0.00847	0.00106	4,917
Sequence 14	2.0	8.0	88.5	85.3	3.2	7.3	7.0	0.3	0.01139	0.00142	4,932
Sequence 15	2.0	10.0	113.1	107.6	5.5	9.3	8.8	0.5	0.01361	0.00170	5,206

TESTED BY

REVIEWED BY

GW

DATE

April 16, 2019

DATE

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

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

Job No.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 4.53
Date Tested:	April 16, 2019	Location:	21'RT
Name of Project:	CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON		
Lab No.:	20190722	Depth:	0-5
Sample ID:	RV87	AASHTO Class:	A-4 (0)
LATITUDE:		Material Type (1 or 2):	2
		LONGITUDE:	

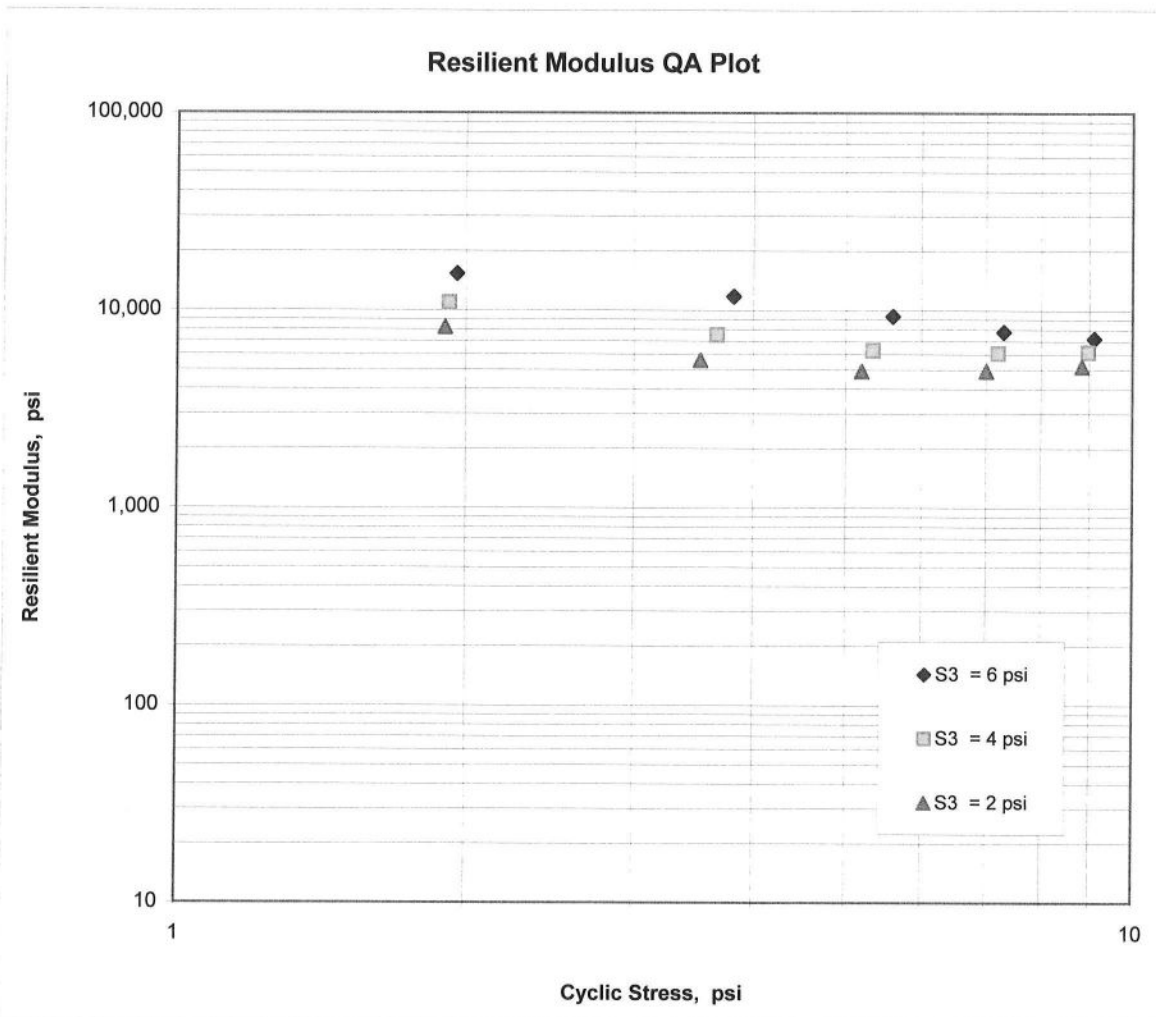
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = 7,145$$

$$K_2 = -0.40009$$

$$K_5 = 0.50811$$

$$R^2 = 0.91$$



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

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

Job No.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 8.05
Date Tested:	April 16, 2019	Location:	24'LT
Name of Project:	CADD VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON	Depth:	0-5
Lab No.:	20190723	AASHTO Class:	A-4 (0)
Sample ID:	RV88	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):	12.18
Initial Volume, AoLo (cu. in):	97.68

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3301.10
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4. Soil Properties:

Optimum Moisture Content (%):	10.8
Maximum Dry Density (pcf):	119.2
95% of MDD (pcf):	113.2
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3301.10
Compaction Moisture content (%):	11.0
Compaction Wet Density (pcf):	128.76
Compaction Dry Density (pcf):	116.00
Moisture Content After Mr Test (%):	10.7

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):	#VALUE!
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7. Resilient Modulus, Mr:	$7580(S_c)^{-0.15291}(S_3)^{0.43621}$
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8. Comments

9. Tested By: <u>GW</u>	Date: <u>April 16, 2019</u>
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AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS RECOMPACTED SAMPLES

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	25.3	22.7	2.6	2.1	1.9	0.2	0.00098	0.00012	15,290
Sequence 2	6.0	4.0	47.5	44.9	2.6	3.9	3.7	0.2	0.00210	0.00026	14,100
Sequence 3	6.0	6.0	70.4	67.0	3.4	5.8	5.5	0.3	0.00334	0.00042	13,201
Sequence 4	6.0	8.0	94.4	88.5	5.9	7.8	7.3	0.5	0.00477	0.00059	12,226
Sequence 5	6.0	10.0	118.5	110.2	8.3	9.7	9.1	0.7	0.00614	0.00077	11,824
Sequence 6	4.0	2.0	25.0	22.4	2.6	2.1	1.8	0.2	0.00117	0.00015	12,592
Sequence 7	4.0	4.0	46.7	44.0	2.6	3.8	3.6	0.2	0.00265	0.00033	10,927
Sequence 8	4.0	6.0	68.1	65.4	2.6	5.6	5.4	0.2	0.00426	0.00053	10,104
Sequence 9	4.0	8.0	92.4	87.4	5.0	7.6	7.2	0.4	0.00578	0.00072	9,954
Sequence 10	4.0	10.0	116.2	108.7	7.5	9.5	8.9	0.6	0.00721	0.00090	9,923
Sequence 11	2.0	2.0	24.7	22.0	2.7	2.0	1.8	0.2	0.00150	0.00019	9,684
Sequence 12	2.0	4.0	45.0	42.3	2.7	3.7	3.5	0.2	0.00339	0.00042	8,201
Sequence 13	2.0	6.0	65.5	62.9	2.6	5.4	5.2	0.2	0.00536	0.00067	7,715
Sequence 14	2.0	8.0	88.6	84.3	4.3	7.3	6.9	0.4	0.00718	0.00090	7,729
Sequence 15	2.0	10.0	112.8	106.0	6.8	9.3	8.7	0.6	0.00881	0.00110	7,922

TESTED BY	GW	DATE	April 16, 2019
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.	012275	Material Code	SSRVPS
Date Sampled:	2/26/19	Station No.:	LM 8.05
Date Tested:	April 16, 2019	Location:	24'LT
Name of Project:	CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	DICKERSON/BUNTON		Depth: 0-5
Lab No.:	20190723	AASHTO Class:	A-4 (0)
Sample ID:	RV88	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

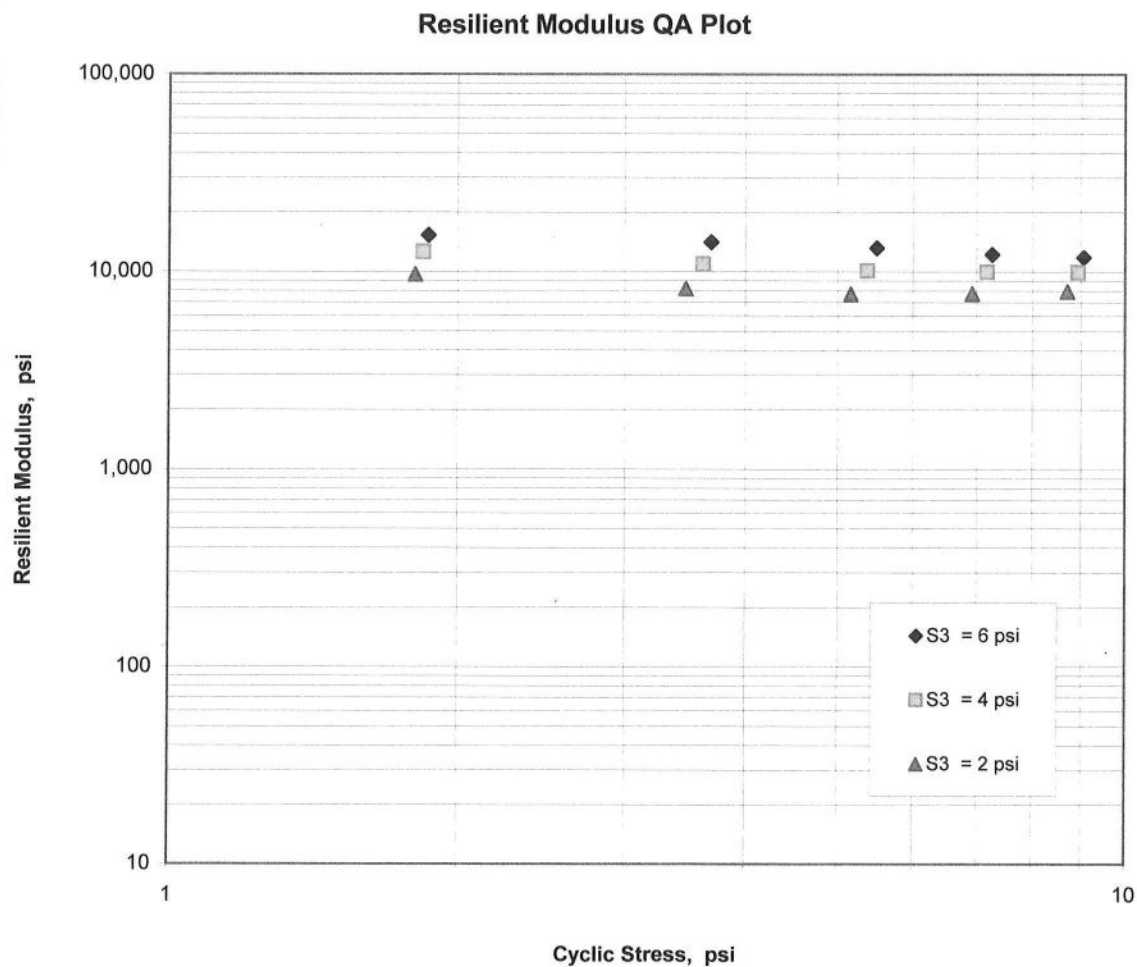
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 7,580$$

$$K_2 = -0.15291$$

$$K_5 = 0.43621$$

$$R^2 = 0.97$$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS

MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 04/19/19	SEQUENCE NO.	- 1
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/18
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190652	- 20190653	- 20190654
SAMPLE ID	- S17	- S18	- S19
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM .60	- LM .60	- LM .60
LOCATION	- 06 RT	- 19 RT	- 35 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 11 23.30	- 34 11 23.30	- 34 11 23.30
LONGITUDE DEG-MIN-SEC	- 93 04 21.30	- 93 04 21.20	- 93 04 21.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 97	- 97	- 100
	NO. 10 - 93	- 95	- 96
	NO. 40 - 89	- 91	- 93
	NO. 80 - 74	- 87	- 89
	NO. 200 - 53	- 67	- 74
		- 45	- 52
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	- 12.3	- 13.9	- 14.4
ACHM SC (IN)	- 7.5W	- 3.5W	- ---
AGG. BASE CRS. CL-5 (IN)	- 5.0	- 5.0	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 2
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190655	- 20190656	- 20190657
SAMPLE ID	- S20	- S21	- S22
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM .85	- LM .85	- LM .85
LOCATION	- 05 LT	- 18 LT	- 34 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 11 35.70	- 34 11 35.70	- 34 11 35.60
LONGITUDE DEG-MIN-SEC	- 93 04 27.20	- 93 04 27.40	- 93 04 27.50

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	- 100	- 100
	NO. 4	- 97	- 95
	NO. 10	- 92	- 86
	NO. 40	- 87	- 80
	NO. 80	- 77	- 75
	NO. 200	- 68	- 65
		- 21	- 33

LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-2-4 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.8	- 14.3	- 13.0

ACHM SC	(IN)	- 3.0W	- 2.75W	- ---
ACHM SC	(IN)	- 1.25X	- ---	- ---
ACHM SC	(IN)	- 0.75	- ---	- ---
ACHM BC	(IN)	- 6.5W	- 0.25	- ---
ACHM BC	(IN)	- ---	- 1.75X	- ---
AGG. BASE CRS. CL-5	(IN)	- ---	- 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	- 04/19/19	SEQUENCE NO.	- 3
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190658	- 20190659	- 20190660
SAMPLE ID	- S23	- S24	- S25
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 1.10	- LM 1.10	- LM 1.10
LOCATION	- 05 RT	- 18 RT	- 37 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 11 48.30	- 34 11 48.30	- 34 11 48.40
LONGITUDE DEG-MIN-SEC	- 93 04 33.40	- 93 04 33.30	- 93 04 33.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	100
	3/8 IN. -	-	99
NO. 4	- 100	- 100	- 95
NO. 10	-	-	- 89
NO. 40	-	-	- 80
NO. 80	-	-	- 74
NO. 200	- 91	- 94	- 65
LIQUID LIMIT	- 43	- 35	- 33
PLASTICITY INDEX	- 23	- 15	- 16
AASHTO SOIL	- A-7-6(22)	- A-6(14)	- A-6(8)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.6	- 11.2	- 23.4
ACHM SC (IN)	- 4.75W	- 1.75	- ---
ACHM BC (IN)	- 7.0W	- ---	- ---
BST (IN)	- ---	- 0.75	- ---
AGG. BASE CRS. CL-5 (IN)	- ---	- 5.0	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 4
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 02/26/19
LOCATION	- MULTIPLE COUNTIES	DATE RECEIVED	- 03/18/19
SAMPLED BY	- DICKERSON/BUNTON	DATE TESTED	- 03/19/19
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20190661	- 20190662	- 20190663
SAMPLE ID	- S26	- S27	- S28
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 1.35	- LM 1.35	- LM 1.35
LOCATION	- 06 LT	- 18 LT	- 34 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GRAY	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 12 .70	- 34 12 .70	- 34 12 .70
LONGITUDE DEG-MIN-SEC	- 93 04 39.10	- 93 04 39.30	- 93 04 39.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 99	- 99
	NO. 4 - 95	- 95	- 96
	NO. 10 - 89	- 89	- 91
	NO. 40 - 83	- 82	- 85
	NO. 80 - 80	- 76	- 81
	NO. 200 - 76	- 69	- 74
LIQUID LIMIT	- 33	- 32	- 26
PLASTICITY INDEX	- 14	- 13	- 9
AASHTO SOIL	- A-6 (9)	- A-6 (7)	- A-4 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 33.6	- 22.4	- 19.6
ACHM SC	(IN) - 6.25W	- 2.5W	- ---
ACHM BC	(IN) - 7.75W	- 1.25	- ---
ACHM BC	(IN) - 3.5X	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 5
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190664	- 20190665	- 20190666
SAMPLE ID	- S29	- S30	- S31
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 1.60	- LM 1.60	- LM 1.60
LOCATION	- 06 RT	- 18 RT	- 35 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RED	- RED	- RED
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 12 13.40	- 34 12 13.40	- 34 12 13.50
LONGITUDE DEG-MIN-SEC	- 93 04 42.70	- 93 04 42.70	- 93 04 42.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. - 100	- 99	- 100
	NO. 4 - 97	- 99	- 96
	NO. 10 - 92	- 93	- 91
	NO. 40 - 83	- 88	- 86
	NO. 80 - 79	- 86	- 84
	NO. 200 - 75	- 84	- 80
LIQUID LIMIT	- 49	- 50	- 36
PLASTICITY INDEX	- 24	- 24	- 15
AASHTO SOIL	- A-7-6(18)	- A-7-6(22)	- A-6(11)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.5	- 18.0	- 16.4
ACHM SC (IN)	- 6.0W	- 3.25W	- ---
ACHM BC (IN)	- 6.5	- ---	- ---
AGG. BASE CRS. CL-5 (IN)	- 6.0	- 10.0	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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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	-	04/19/19	SEQUENCE NO.	-	7
JOB NUMBER	-	012275	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	-	76
SUPPLIER NAME	-	COUNTIES	DISTRICT NO.	-	XX
NAME OF PROJECT	-	CADDO VALLEY - GARLAND CO. LINE (PASSING LANES) (S)			
PROJECT ENGINEER	-	NOT APPLICABLE			
PIT/QUARRY	-	ARKANSAS			
LOCATION	-	MULTIPLE COUNTIES	DATE SAMPLED	-	02/26/19
SAMPLED BY	-	DICKERSON/BUNTON	DATE RECEIVED	-	03/18/19
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	04/19/19
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	-	20190670	-	20190671	-	20190672
SAMPLE ID	-	S35	-	S36	-	S37
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM 2.75	-	LM 2.75	-	LM 2.75
LOCATION	-	05 RT	-	13 RT	-	22 RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BROWN	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 16 8.00	-	34 16 8.10	-	34 16 8.10
LONGITUDE DEG-MIN-SEC	-	93 08 39.80	-	93 08 39.70	-	93 08 39.60

% PASSING	2	IN.	-		-		
	1 1/2	IN.	-		-		
	3/4	IN.	-		-		
	3/8	IN.	-	100	-	100	
	NO. 4	-	99	-	95	-	85
	NO. 10	-	98	-	90	-	78
	NO. 40	-	95	-	86	-	71
	NO. 80	-	93	-	81	-	65
	NO. 200	-	83	-	64	-	47

LIQUID LIMIT	-	29	-	21	-	ND
PLASTICITY INDEX	-	10	-	5	-	NP
AASHTO SOIL	-	A-4 (7)	-	A-4 (1)	-	A-4 (0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	17.6	-	16.8	-	17.9

ACHM SC	(IN)	-	10.0W	-	2.75	-	---
ACHM BC	(IN)	-	2.75	-	4.75W	-	---
AGG. BASE CRS. CL-5	(IN)	-	8.0	-	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	- 04/29/19	SEQUENCE NO.	- 8
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 02/26/19
LOCATION	- MULTIPLE COUNTIES	DATE RECEIVED	- 03/18/19
SAMPLED BY	- DICKERSON/BUNTON	DATE TESTED	- 04/19/19
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20190673	- 20190674	- 20190675
SAMPLE ID	- S38	- S39	- S40
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 3.00	- LM 3.00	- LM 3.00
LOCATION	- 05 LT	- 14 LT	- 21 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 16 19.40	- 34 16 19.30	- 34 16 19.30
LONGITUDE DEG-MIN-SEC	- 93 08 52.20	- 93 08 52.20	- 93 08 52.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
NO. 4	- 99	- 99	- 98
NO. 10	- 96	- 94	- 92
NO. 40	- 92	- 84	- 85
NO. 80	- 81	- 75	- 75
NO. 200	- 58	- 50	- 45
LIQUID LIMIT	- 19	- 19	- ND
PLASTICITY INDEX	- 5	- 5	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.7	- 14.9	- 17.4
ACHM SC	(IN) - 2.5	- 2.5	- ---
ACHM SC	(IN) - 3.75X	- 3.75W	- ---
ACHM SC	(IN) - 3.0	- ---	- ---
AGG. BASE CRS. CL-5	(IN) - 8.0	- 6.0	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 11
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190682	- 20190683	- 20190684
SAMPLE ID	- S47	- S48	- S49
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 3.75	- LM 3.95	- LM 3.95
LOCATION	- 24 RT	- 06 LT	- 20 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RD/BR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 16 43.60	- 34 16 48.80	- 34 16 48.70
LONGITUDE DEG-MIN-SEC	- 93 09 22.70	- 93 09 34.30	- 93 09 34.40

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	- 100
	3/8 IN.	- 94	- 94
	NO. 4	- 89	- 83
	NO. 10	- 85	- 66
	NO. 40	- 82	- 57
	NO. 80	- 74	- 50
	NO. 200	- 54	- 43
		- 66	- 30

LIQUID LIMIT	- ND	- 21	- ND
PLASTICITY INDEX	- NP	- 5	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (1)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.0	- 19.7	- 20.5

ACHM SC	(IN) -	---	- 6.75W	- ---
ACHM BC	(IN) -	---	- 3.75X	- ---
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 12
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190685	- 20190686	- 20190687
SAMPLE ID	- S50	- S51	- S52
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 4.53	- LM 4.53	- LM 4.53
LOCATION	- 06 RT	- 14 RT	- 21 RT
DEPTH IN FEET	- 0-3.5z	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 17 12.10	- 34 17 12.10	- 34 17 12.10
LONGITUDE DEG-MIN-SEC	- 93 09 48.70	- 93 09 48.60	- 93 09 48.50

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	100
	3/8 IN.	-	91
	NO. 4	-	83
	NO. 10	-	77
	NO. 40	-	72
	NO. 80	-	69
	NO. 200	-	64
		-	50

LIQUID LIMIT	- 27	- 20	- ND
PLASTICITY INDEX	- 12	- 5	- NP
AASHTO SOIL	- A-6 (5)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.4	- 14.1	- 16.2

ACHM SC	(IN)	- 10.5WX	- 6.5W	- ---
ACHM BC	(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	- 04/19/19	SEQUENCE NO.	- 13
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190688	- 20190689	- 20190690
SAMPLE ID	- S53	- S54	- S55
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 4.78	- LM 4.78	- LM 4.78
LOCATION	- 06 LT	- 14 LT	- 19 LT
DEPTH IN FEET	- 0-4z	- 0-4z	- 0-1z
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 17 23.70	- 34 17 23.70	- 34 17 23.70
LONGITUDE DEG-MIN-SEC	- 93 09 48.80	- 93 09 48.80	- 93 09 48.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 98	- 96	- 98
	NO. 10 - 90	- 90	- 90
	NO. 40 - 82	- 80	- 81
	NO. 80 - 75	- 73	- 74
	NO. 200 - 58	- 60	- 61
		- 42	- 36
LIQUID LIMIT	- 19	- ND	- ND
PLASTICITY INDEX	- 6	- NP	- NP
AASHTO SOIL	- A-4 (1)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 5.7	- 11.0	- 7.2
ACHM SC (IN)	- 13.0W	- 8.75W	- ---
ACHM BC (IN)	- 2.0	- ---	- ---
AGG. BASE CRS. CL-5 (IN)	- 2.0	- 4.0	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

[illegible]

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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

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	- 04/19/19	SEQUENCE NO.	- 16
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190697	- 20190698	- 20190699
SAMPLE ID	- S62	- S63	- S64
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 5.53	- LM 5.53	- LM 5.53
LOCATION	- 06 RT	- 14 RT	- 19 RT
DEPTH IN FEET	- 0-3.5z	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 18 4.10	- 34 18 4.10	- 34 18 4.10
LONGITUDE DEG-MIN-SEC	- 93 09 53.10	- 93 09 53.00	- 93 09 52.90

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	- 100
	3/4 IN.	-	- 87
	3/8 IN.	- 100	- 73
	NO. 4	- 98	- 68
	NO. 10	- 95	- 63
	NO. 40	- 90	- 57
	NO. 80	- 84	- 50
	NO. 200	- 77	- 37

LIQUID LIMIT	- 41	- 23	- 23
PLASTICITY INDEX	- 22	- 9	- 8
AASHTO SOIL	- A-7-6(16)	- A-4(2)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.3	- 15.9	- 23.1

ACHM SC	(IN)	- 11.5W	- 8.75W	- ---
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

[illegible]

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	- 04/19/19	SEQUENCE NO.	- 18
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190703	- 20190704	- 20190705
SAMPLE ID	- S68	- S69	- S70
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 7.30	- LM 7.30	- LM 7.30
LOCATION	- 06 RT	- 15 RT	- 23 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RED	- RED	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 19 32.00	- 34 19 32.00	- 34 19 32.00
LONGITUDE DEG-MIN-SEC	- 93 10 23.60	- 93 10 23.40	- 93 10 23.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	- 100
	3/8 IN. - 100	- 96	- 96
	NO. 4 - 97	- 92	- 94
	NO. 10 - 95	- 86	- 91
	NO. 40 - 91	- 82	- 89
	NO. 80 - 89	- 79	- 85
	NO. 200 - 81	- 63	- 64
LIQUID LIMIT	- 30	- 28	- 21
PLASTICITY INDEX	- 13	- 11	- 15
AASHTO SOIL	- A-6(9)	- A-6(4)	- A-6(5)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.3	- 25.5	- 19.3
ACHM SC	(IN) - 10.0WX	- 4.75	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	-	04/19/19	SEQUENCE NO.	-	19
JOB NUMBER	-	012275	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	-	76
SUPPLIER NAME	-	COUNTIES	DISTRICT NO.	-	XX
NAME OF PROJECT	-	CADDO VALLEY - GARLAND CO. LINE (PASSING LANES) (S)			
PROJECT ENGINEER	-	NOT APPLICABLE			
PIT/QUARRY	-	ARKANSAS			
LOCATION	-	MULTIPLE COUNTIES	DATE SAMPLED	-	02/26/19
SAMPLED BY	-	DICKERSON/BUNTON	DATE RECEIVED	-	03/18/19
SAMPLE FROM	-	TEST HOLE	DATE TESTED	-	04/19/19
MATERIAL DESC.	-	SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	-	20190706	-	20190707	-	20190708
SAMPLE ID	-	S71	-	S72	-	S73
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	LM 7.55	-	LM 7.55	-	LM 7.55
LOCATION	-	06 LT	-	15 LT	-	21 LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-2z
MAT'L COLOR	-	BR/GR	-	BR/GR	-	BR/GR
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 19 45.60	-	34 19 45.60	-	34 19 45.50
LONGITUDE DEG-MIN-SEC	-	93 10 27.60	-	93 10 27.70	-	93 10 27.80

% PASSING	2	IN.	-		-	
	1 1/2	IN.	-		-	100
	3/4	IN.	-		-	97
	3/8	IN.	-	100	-	80
	NO. 4	-		98	-	69
	NO. 10	-		96	-	55
	NO. 40	-		89	-	42
	NO. 80	-		81	-	35
	NO. 200	-		73	-	27

LIQUID LIMIT	-	42	-	53	-	ND
PLASTICITY INDEX	-	20	-	29	-	NP
AASHTO SOIL	-	A-7-6(10)	-	A-7-6(21)	-	A-2-4(0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	25.4	-	16.9	-	15.7

ACHM SC	(IN)	-	2.5	-	5.5	-	---
ACHM SC	(IN)	-	4.5X	-	---	-	---
ACHM SC	(IN)	-	2.0	-	---	-	---
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	

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	- 04/29/19	SEQUENCE NO.	- 20
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES)(S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		
LAB NUMBER	- 20190709	- 20190710	- 20190711
SAMPLE ID	- S74	- S75	- S76
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 7.80	- LM 7.80	- LM 7.80
LOCATION	- 05 RT	- 15 RT	- 25 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	- 34 19 56.00	- 34 19 56.10	- 34 19 56.10
LONGITUDE DEG-MIN-SEC	- 93 10 34.30	- 93 10 34.20	- 93 10 34.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	-
	3/8 IN. - 100	- 98	-
	NO. 4 - 99	- 96	- 100
	NO. 10 - 96	- 93	-
	NO. 40 - 87	- 87	-
	NO. 80 - 82	- 83	-
	NO. 200 - 78	- 79	- 90
LIQUID LIMIT	- 44	- 58	- 55
PLASTICITY INDEX	- 21	- 30	- 28
AASHTO SOIL	- A-7-6(16)	- A-7-6(26)	- A-7-6(29)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 29.2	- 26.4	- 22.8
ACHM SC	(IN) - 4.0	- 5.0	- ---
ACHM SC	(IN) - 2.0X	- ---	- ---
ACHM SC	(IN) - 1.0	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

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	- 04/19/19	SEQUENCE NO.	- 21
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190712	- 20190713	- 20190714
SAMPLE ID	- S77	- S78	- S79
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 8.05	- LM 8.05	- LM 8.05
LOCATION	- 05 LT	- 14 LT	- 24 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 20 8.70	- 34 20 8.60	- 34 20 8.50
LONGITUDE DEG-MIN-SEC	- 93 10 44.00	- 93 10 44.10	- 93 10 44.20

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	-	-
	3/8 IN.	-	100
	NO. 4	-	96
	NO. 10	-	88
	NO. 40	-	81
	NO. 80	-	73
	NO. 200	-	67
		-	53

LIQUID LIMIT	- 22	- 19	- 21
PLASTICITY INDEX	- 7	- 4	- 6
AASHTO SOIL	- A-4 (2)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.8	- 15.9	- 16.4

ACHM SC	(IN)	- 4.0	- 6.5	- ---
ACHM SC	(IN)	- 1.0X	- ---	- ---
ACHM SC	(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	- 04/19/19	SEQUENCE NO.	- 22
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 02/26/19
LOCATION	- MULTIPLE COUNTIES	DATE RECEIVED	- 03/18/19
SAMPLED BY	- DICKERSON/BUNTON	DATE TESTED	- 04/19/19
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190715	- 20190716	- 20190717
SAMPLE ID	- S80	- S81	- S82
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- LM 8.30	- LM 8.30	- LM 8.30
LOCATION	- 05 RT	- 15 RT	- 22 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 20 18.80	- 34 20 18.90	- 34 20 19.00
LONGITUDE DEG-MIN-SEC	- 93 10 51.90	- 93 10 51.80	- 93 10 51.90

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	100
	3/4 IN.	- 100	92
	3/8 IN.	- 99	61
	NO. 4	- 95	43
	NO. 10	- 90	30
	NO. 40	- 83	21
	NO. 80	- 79	17
	NO. 200	- 66	11

LIQUID LIMIT	- 22	- 23	- ND
PLASTICITY INDEX	- 7	- 6	- NP
AASHTO SOIL	- A-4 (2)	- A-2-4 (0)	- A-1-9 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.8	- 10.3	- 11.8

ACHM SC	(IN)	- 9.25W	- 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	- 04/19/19	SEQUENCE NO.	- 23
JOB NUMBER	- 012275	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	- 76
SUPPLIER NAME	- COUNTIES	DISTRICT NO.	- XX
NAME OF PROJECT	- CADD O VALLEY - GARLAND CO. LINE (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- MULTIPLE COUNTIES	DATE SAMPLED	- 02/26/19
SAMPLED BY	- DICKERSON/BUNTON	DATE RECEIVED	- 03/18/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 04/19/19
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20190718	- 20190719	-
SAMPLE ID	- S83	- S84	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- LM 8.50	- LM 8.50	-
LOCATION	- 06 LT	- 15 LT	-
DEPTH IN FEET	- 0-5	- 0-5	-
MAT'L COLOR	- BR/GR	- BROWN	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 20 25.50	- 34 20 25.40	-
LONGITUDE DEG-MIN-SEC	- 93 10 59.50	- 93 10 59.60	-
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 99	- 94	-
	NO. 4 - 94	- 89	-
	NO. 10 - 86	- 82	-
	NO. 40 - 77	- 75	-
	NO. 80 - 72	- 71	-
	NO. 200 - 64	- 64	-
LIQUID LIMIT	- 28	- 28	-
PLASTICITY INDEX	- 10	- 10	-
AASHTO SOIL	- A-4 (4)	- A-4 (4)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.2	- 22.1	-
ACHM SC	(IN) - 4.0	- 6.5	-
ACHM SC	(IN) - 1.0X	- ---	-
ACHM SC	(IN) - 3.5	- ---	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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

AASHTO TESTS : T24 T88 T89 T90 T265