

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 100875

FEDERAL AID PROJECT NO. STPC-STPLC-9227(72)

HWY. 351 NORTH & SOUTH INTERS. IMPVTS. (JONESBORO) (S)

STATE HIGHWAY 351 SECTION 1 & 2

IN CRAIGHEAD COUNTY

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



ARKANSAS DEPARTMENT OF TRANSPORTATION

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MATERIALS DIVISION

11301 West Baseline Road | P.O. Box 2261 | Little Rock, AR 72203-2261 | Phone: 501.569.2185 | Fax: 501.569.2368
March 9, 2018

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 100875
Hwy. 49 – Pleasant View Dr. (Jonesboro)(S)
Route 351 Section 2
Craighead County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of widening approximately .8 miles of Highway 351. Samples were taken in the existing travel lanes and ditch line. There were no paved shoulders within the project limits.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of moderate to highly plastic clay with some sand and gravel. Cross-sections are not currently available, but it is assumed the construction grade line will closely match that of the existing roadway. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. If embankment material is to be placed within the existing ditch line the soft unstable organic material should be undercut prior to embankment construction, anticipated to be no more than 2 feet. There were no slide areas observed within the project limits.

Additional 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 Black Rock.
2. Asphalt Concrete Hot Mix

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



Michael C. Benson
Materials Engineer

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

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

DATE - 02/13/2018
JOB NUMBER - 100875

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

JOB NAME - HWY.49 - PLEASANT VIEW DR. (JONESBORO) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB LESS THAN 5

RESILIENT MODULUS
STA. 120 + 00 8650

REMARKS -

AASHTO TESTS : T190

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

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

Job No.	100875	Material Code	SSRVPS
Date Sampled:	1/9/18	Station No.:	120+00
Date Tested:	February 6, 2018	Location:	15'RT
Name of Project:	HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	THORNTON/FRAZIER	Depth:	0-5
Lab No.:	20180049	AASHTO Class:	A-6 (19)
Sample ID:	RV956	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	3.94
Middle	3.94
Bottom	3.93
Average	3.94
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):	12.10
Initial Volume, AoLo (cu. in):	97.02

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3079.20
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4. Soil Properties:

Optimum Moisture Content (%):	18.7
Maximum Dry Density (pcf):	103.8
95% of MDD (pcf):	98.6
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3079.20
Compaction Moisture content (%):	19.0
Compaction Wet Density (pcf):	120.93
Compaction Dry Density (pcf):	101.62
Moisture Content After Mr Test (%):	18.7

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

7. Resilient Modulus, Mr: 10677(S_c)^{-0.14967}(S₃)^{0.16544}

8. Comments

9. Tested By: GW **Date:** February 6, 2018

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

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

Job No. 100875 **Material Code** SSRVPS
Date Sampled: 1/9/18 **Station No.:** 120+00
Date Tested: February 6, 2018 **Location:** 15'RT
Name of Project: HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)
County: Code: 16 **Name:** CRAIGHEAD
Sampled By: THORNTON/FRAZIER
Lab No.: 20180049
Sample ID: RV956
LATITUDE:
Depth: 0-5
AASHTO Class: A-6 (19)
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	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.1	22.4	2.7	2.1	1.9	0.2	0.00114	0.00014	13,054
Sequence 2	6.0	4.0	47.1	44.4	2.7	3.9	3.7	0.2	0.00232	0.00029	12,658
Sequence 3	6.0	6.0	69.6	66.1	3.5	5.8	5.5	0.3	0.00376	0.00047	11,653
Sequence 4	6.0	8.0	92.9	87.0	5.9	7.7	7.2	0.5	0.00547	0.00068	10,536
Sequence 5	6.0	10.0	115.4	107.0	8.4	9.5	8.8	0.7	0.00736	0.00092	9,634
Sequence 6	4.0	2.0	25.1	22.3	2.7	2.1	1.8	0.2	0.00125	0.00016	11,828
Sequence 7	4.0	4.0	46.9	44.1	2.8	3.9	3.6	0.2	0.00257	0.00032	11,370
Sequence 8	4.0	6.0	68.3	65.5	2.8	5.6	5.4	0.2	0.00411	0.00051	10,579
Sequence 9	4.0	8.0	91.4	86.4	5.0	7.6	7.1	0.4	0.00576	0.00072	9,933
Sequence 10	4.0	10.0	114.6	107.1	7.5	9.5	8.9	0.6	0.00759	0.00095	9,351
Sequence 11	2.0	2.0	25.0	22.2	2.8	2.1	1.8	0.2	0.00141	0.00018	10,412
Sequence 12	2.0	4.0	46.8	44.0	2.8	3.9	3.6	0.2	0.00292	0.00036	9,986
Sequence 13	2.0	6.0	68.2	65.4	2.8	5.6	5.4	0.2	0.00453	0.00057	9,562
Sequence 14	2.0	8.0	90.5	86.3	4.3	7.5	7.1	0.4	0.00626	0.00078	9,127
Sequence 15	2.0	10.0	113.6	106.9	6.6	9.4	8.8	0.5	0.00819	0.00102	8,650

TESTED BY GW **DATE** February 6, 2018
REVIEWED BY _____ **DATE** _____

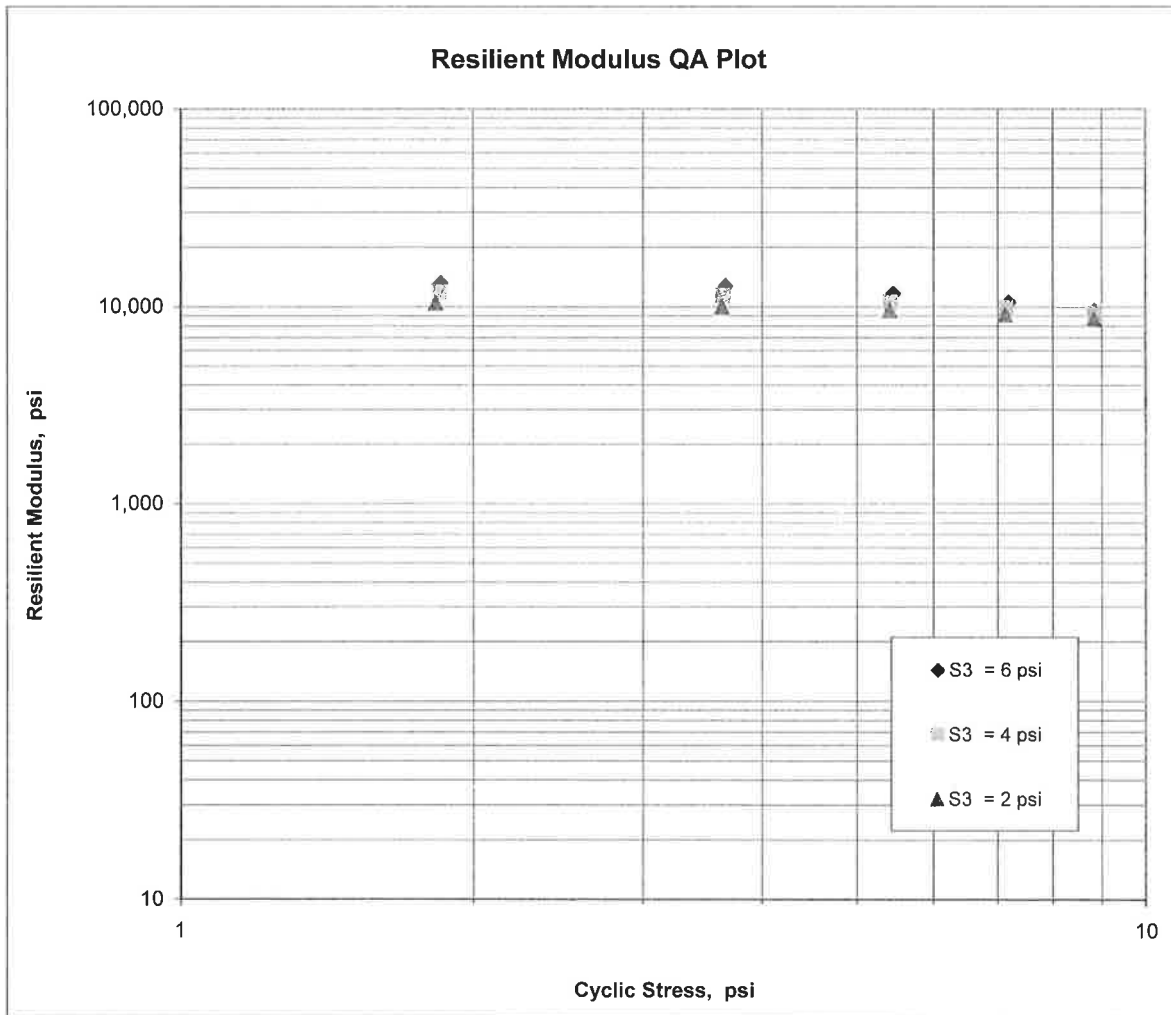
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	100875	Material Code	SSRVPS
Date Sampled:	1/9/18	Station No.:	120+00
Date Tested:	February 6, 2018	Location:	15'RT
Name of Project:	HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	THORNTON/FRAZIER		Depth: 0-5
Lab No.:	20180049	AASHTO Class:	A-6 (19)
Sample ID:	RV956	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = \underline{\underline{10,677}}$
 $K_2 = \underline{\underline{-0.14967}}$
 $K_5 = \underline{\underline{0.16544}}$
 $R^2 = \underline{\underline{0.91}}$



JOB: 100875

Arkansas State Highway Transportation Department

JOB NAME: HWY.49 - PLEASANT VIEW DR.(JONESBORO)(S)

Materials Division

COUNTY NO. 16 DATE TESTED

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					
120+00	15'RT	0-5	BR/GR	100				96	38	19	A-6(19)	RV956	
120+00	15 RT	0-5	BR/GR	100				96	38	19	A-6 (19)	RV956	
112+00	06 LT	0-5	BR/GR	91	87	77	73	72	41	25	A-7-6(16)	S946	17.7
112+00	15 LT	0-5	BR/GR	100				96	43	27	A-7-6(27)	S947	20.4
120+00	06 RT	0-5	RD/BR	95	90	80	78	77	35	21	A-6(14)	S948	22.7
120+00	15 RT	0-5	BR/GR	94	91	84	81	80	41	25	A-7-6(19)	S949	22.6
128+00	06 LT	0-5	BR/GR	91	83	69	64	62	33	18	A-6(8)	S950	18.4
128+00	15 LT	0-5	BROWN	83	79	65	58	55	31	14	A-6(5)	S951	22.8
136+00	06 RT	0-5	BR/GR	93	80	78	75	74	37	20	A-6(13)	S952	20.9
136+00	15 RT	0-5	BROWN	98	96	92	88	86	32	14	A-6(11)	S953	22
144+00	06 LT	0-5	BROWN	91	86	77	73	72	32	17	A-6(10)	S954	19.7
144+00	15 LT	0-5	BR/GR	80	73	68	63	61	25	07	A-4(2)	S955	17.9

JOB: 100875

Arkansas State Highway Transportation Department

DATE TESTED

JOB NAME: HWY.49 - PLEASANT VIEW DR.(JONESBORO)(S)

Materials Division

2/13/2018

COUNTY NO. 16

Michael Benson, Materials Engineer

STA.# LOC. PAVEMENT SOUNDINGS

112+00	06 LT	ACHMSC 5.5W	ACHMBC ---	AGG. BASE CRS CL-7 10.0
112+00	15 LT	ACHMSC ---	ACHMBC ---	AGG. BASE CRS CL-7 ---
120+00	06 RT	ACHMSC 4.0W	ACHMBC 2.0	AGG. BASE CRS CL-7 6.0
120+00	15 RT	ACHMSC ---	AGG. BASE CRS CL-7 ---	
128+00	06 LT	ACHMSC 5.75W	AGG. BASE CRS CL-7 9.0	
128+00	15 LT	ACHMSC ---	AGG. BASE CRS CL-7 ---	
136+00	06 RT	ACHMSC 5.5W	AGG. BASE CRS CL-7 10.0	
136+00	15 RT	ACHMSC ---	AGG. BASE CRS CL-7 ---	
144+00	06 LT	ACHMSC 5.5W	AGG. BASE CRS CL-7 8.0	

Comments: W=MULTIPLE LAYERS



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

August 3, 2018

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 100875
Hwy. 49 – Pleasant View Dr. (Jonesboro)(S)
Route 351 Sections 1& 2
Craighead County

Transmitted herewith is the additional requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. Improvements to the intersection of Highway 49 and Highway 351 have been added to the project. Samples were taken in the existing travel lanes, shoulders and ditch line.

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

Additional 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 Black Rock.
2. Asphalt Concrete Hot Mix

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


Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS

MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE - 07/23/2018
JOB NUMBER - 100875A

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

JOB NAME - HWY. 49 - PLEASANT VIEW DR. (JONESBORO) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB LESS THAN 5

RESILIENT MODULUS
STA. 323 + 00 7404

REMARKS -

-
AASHTO TESTS : T190

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

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

Job No.	100875A	Material Code	SSRVPS
Date Sampled:	6/5/18	Station No.:	323+00
Date Tested:	June 27, 2018	Location:	38'RT
Name of Project:	HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	DICKERSON/FRAZIER	Depth:	0-5
Lab No.:	20181279	AASHTO Class:	A-6 (17)
Sample ID:	RV300	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	3.94
Middle	3.95
Bottom	3.94
Average	3.94
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):	12.14
Initial Volume, AoLo (cu. in):	97.35

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3096.30
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4. Soil Properties:

Optimum Moisture Content (%):	15.3
Maximum Dry Density (pcf):	107.3
95% of MDD (pcf):	101.9
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3096.30
Compaction Moisture content (%):	15.4
Compaction Wet Density (pcf):	121.19
Compaction Dry Density (pcf):	105.01
Moisture Content After Mr Test (%):	15.4

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

#VALUE!

7. Resilient Modulus, Mr:

9469(S_c)^{-0.18157}(S₃)^{0.18695}

8. Comments

9. Tested By:

GW

Date: June 27, 2018

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

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

Job No.	100875A	Material Code	SSRVPS
Date Sampled:	6/5/18	Station No.:	323+00
Date Tested:	June 27, 2018	Location:	38'RT
Name of Project:	HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)	Depth:	0-5
County:	Code: 16 Name: CRAIGHEAD	AASHTO Class:	A-6 (17)
Sampled By:	DICKERSON/FRAZIER	Material Type (1 or 2):	2
Lab No.:	20181279	LONGITUDE:	
Sample ID:	RV300		
LATTITUDE:			

PARAMETER	DESIGNATION	UNIT	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
			Confining Pressure	Maximum Axial Stress	Applied Max. Axial Load	Applied Max. Axial Stress	Applied Contact Load	Applied Contact Stress	Applied Max. Axial Stress	Applied Cyclic Stress	Applied Cyclic Stress	Recov Def. LVDT 1 and 2	Strain
			S ₃	S _{cyclic}	P _{max}	P _{cyclic}	P _{contact}	S _{max}	S _{cyclic}	S _{contact}	H _{avg}	ε _r	M _r
			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	0.00124	0.00015	11,958
Sequence 2			6.0	4.0	47.2	44.4	2.8	3.9	3.7	0.2	0.00265	0.00033	11,075
Sequence 3			6.0	6.0	69.5	65.9	3.6	5.7	5.4	0.3	0.00432	0.00054	10,095
Sequence 4			6.0	8.0	92.3	86.2	6.0	7.6	7.1	0.5	0.00633	0.00079	8,992
Sequence 5			6.0	10.0	114.8	106.3	8.5	9.5	8.8	0.7	0.00858	0.00107	8,189
Sequence 6			4.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00135	0.00017	10,909
Sequence 7			4.0	4.0	46.9	44.1	2.8	3.9	3.6	0.2	0.00290	0.00036	10,053
Sequence 8			4.0	6.0	68.2	65.4	2.8	5.6	5.4	0.2	0.00467	0.00058	9,264
Sequence 9			4.0	8.0	91.3	86.2	5.1	7.5	7.1	0.4	0.00663	0.00083	8,596
Sequence 10			4.0	10.0	114.1	106.5	7.6	9.4	8.8	0.6	0.00877	0.00109	8,022
Sequence 11			2.0	2.0	25.0	22.2	2.8	2.1	1.8	0.2	0.00165	0.00021	8,877
Sequence 12			2.0	4.0	46.8	44.1	2.8	3.9	3.6	0.2	0.00339	0.00042	8,585
Sequence 13			2.0	6.0	68.0	65.2	2.8	5.6	5.4	0.2	0.00527	0.00066	8,169
Sequence 14			2.0	8.0	89.9	85.7	4.2	7.4	7.1	0.3	0.00731	0.00091	7,745
Sequence 15			2.0	10.0	112.5	105.8	6.6	9.3	8.7	0.5	0.00945	0.00118	7,404

TESTED BY _____ DATE _____

REVIEWED BY _____ DATE _____

GW _____ DATE June 27, 2018

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

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

Job No.	100875A	Material Code	SSRVPS
Date Sampled:	6/5/18	Station No.:	323+00
Date Tested:	June 27, 2018	Location:	38'RT
Name of Project:	HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)		
County:	Code: 16	Name:	CRAIGHEAD
Sampled By:	DICKERSON/FRAZIER		Depth: 0-5
Lab No.:	20181279	AASHTO Class:	A-6 (17)
Sample ID:	RV300	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

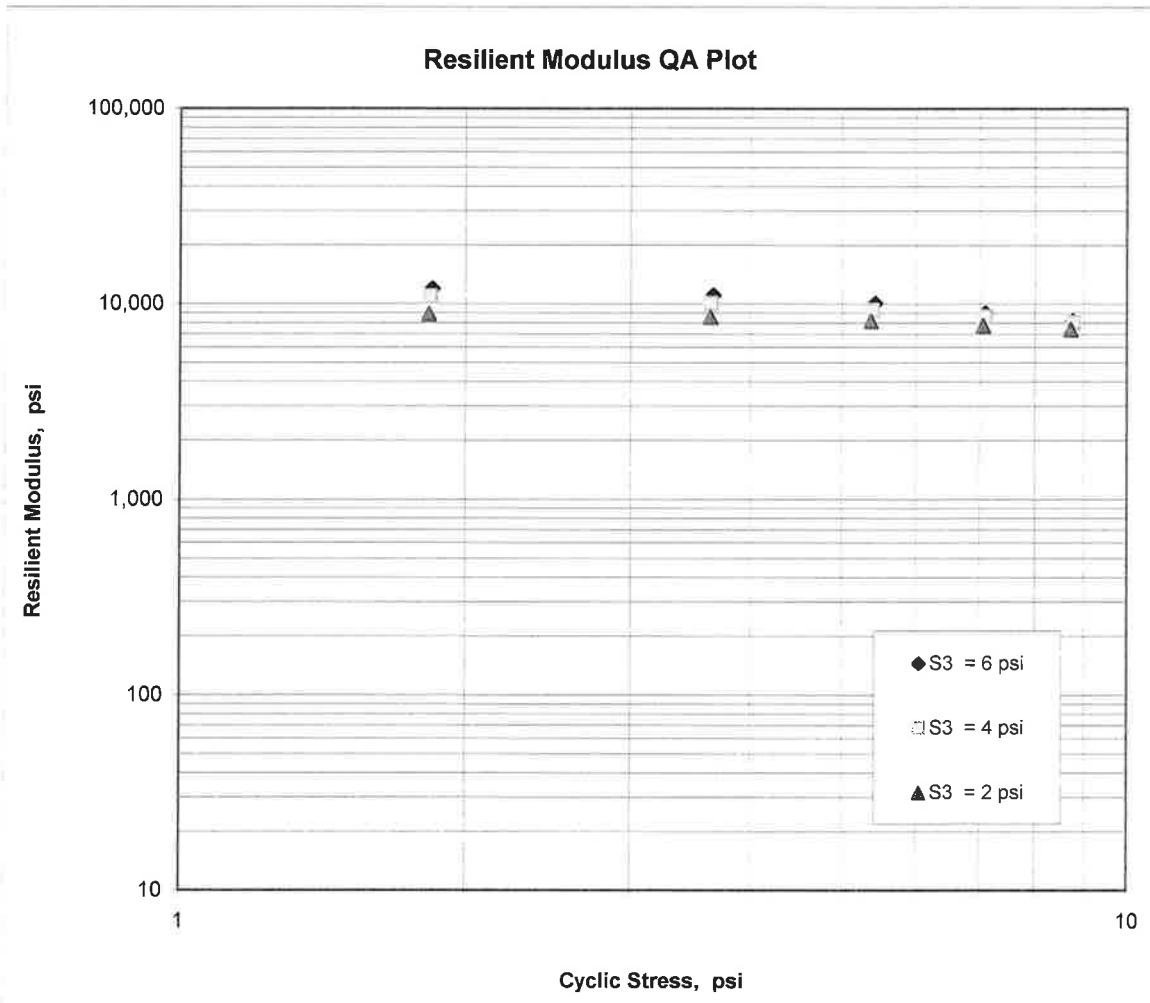
$$M_R = K_1 (S_C)^{K_2} (S_3)^{K_5}$$

$$K_1 = 9,469$$

$$K_2 = -0.18157$$

$$K_5 = 0.18695$$

$$R^2 = 0.91$$



JOB: 100875A

Arkansas State Highway Transportation Department

JOB NAME: HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)

Materials Division

COUNTY NO. 16 DATE TESTED 6/27/2018

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					
323+00	38 RT	0-5	RD/BR	99	98	96	90	73	40	27	A-6(17)	RV300	
323+00	24 RT	0-5	BR/GR	98	95	90	81	69	40	27	A-6(16)	S294	21
323+00	32 RT	0-5	BR/GR	98	98	97	92	71	42	28	A-7-6(16)	S295	19.8
323+00	38 RT	0-5	RD/BR	97	96	95	86	70	36	23	A-6(13)	S296	19.8
337+25	24 LT	0-5	RD/BR					91	39	23	A-1-B	S297	20.9
337+25	32 LT	0-5	BR/GR	98	95	91	87	86	41	25	A-7-6(21)	S298	19.7
337+25	38 LT	0-5	RD/BR	81	80	78	75	74	35	19	A-6(12)	S299	21.9

comments: W=MULTIPLE LAYERS, X=STRIPPED

Tuesday, July 24, 2018

JOB: 100875A

*Arkansas State Highway Transportation Department
Materials Division*

DATE TESTED
6/27/2018

JOB NAME: HWY. 49 - PLEASANT VIEW DR. (JONESBORO)(S)

COUNTY NO. 16

Michael Benson, Materials Engineer

STA.# LOC. **PAVEMENT SOUNDINGS**

323+00	24 RT	ACHMSC 4.0W	ACHMBC 4.5W	ACHMSC 3.0	ACHMSC 6.0	AGG. BASE CRS CL-7
323+00	32 RT	ACHMSC 5.5W	ACHMBC	ACHMSC	ACHMSC	AGG. BASE CRS CL-7
323+00	38 RT	ACHMSC	ACHMBC	ACHMSC	ACHMSC	AGG. BASE CRS CL-7
337+25	24 LT	ACHMSC 7.0W	ACHMBC 4.0W	ACHMSC 7.0	ACHMSC	AGG. BASE CRS CL-7
337+25	32 LT	ACHMSC 6.0WX	ACHMBC	ACHMSC 10.0	ACHMSC	AGG. BASE CRS CL-7
337+25	38 LT	ACHMSC	ACHMBC	ACHMSC	ACHMSC	AGG. BASE CRS CL-7

comments: W=MULTIPLE LAYERS, X=STRIPPED

