ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



SUBSURFACE INVESTIGATION

STATE JOB NO		BB0203	
FEDERAL AID PROJE	CT NO. N	IHPP-530-5(4)34	
	HWY	7. 65B – HWY. 65 (F)	
STATE HIGHWAY	530	SECTION	5
IN		JEFFERSON	COUNTY
LETTING OF		JULY 19, 2017	

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

August 24, 2016

TO:

Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT:

Job No. BB0203 Hwy. 65B – Hwy. 65 (F) Route 530 Section 5 Jefferson County

Transmitted herewith is the requested Pavement Sounding, Resilient Modulus and strength data for the above referenced job. The project consists of rehabilitating approximately 11.75 miles of concrete paving on Interstate 530. Cores were taken at quarter-mile increments alternating between North and South bound lanes.

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

Asphalt Concrete Hot Mix

Туре	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.2	94.8
Binder Course	4.5	95.5
Base Course	3.9	96.1

Michael C. Benson Materials Engineer

MCB:pt:bjj Attachment

CC:

State Constr. Eng. - Master File Copy

District 2 Engineer

System Information and Research Division

G. C. File

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

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE	- 08/24/2016	SEQUENCE NO 1
JOB NUMBER	BB0203	MATERIAL CODE = SSRVPS
		SPEC. YEAR = 2014
		SUPPLIER ID 1
		COUNTY/STATE - 35
		DISTRICT NO. = 02
JOB NAME -	HWY.65B - WHY.65(F)	
******	**********	***********
*	STATION LIMITS	R-VALUE AT 240 psi *
******	**********	**********
	STA.269~380+00	LESS THAN 5
	ALL OTHER STA.S	10
	RESILIENT MODULUS	
	STA.64+00	6315
	STA.107+00	6063
	STA.159+00	6889

7979

4096

STA.211+00

STA.269+00

REMARKS -

AASHTO TESTS : T190

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

MICHAEL BENSON, MAIERIALS ENGINEER

*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE	© 08/24/2016	SEOUENCE NO	2

JOB NUMBER - BB0203 MATERIAL CODE - SSRVPS

SPEC. YEAR - 2014 SUPPLIER ID. - 1

COUNTY/STATE - 35
DISTRICT NO. - 02

JOB NAME - HWY.65B - WHY.65(F)

* STATION LIMITS R-VALUE AT 240 psi

RESILIENT MODULUS

STA.310+00 6377 STA.380+00 6641 STA.434+00 5764 STA.536+00 7214 STA.595+00 7184

REMARKS -

-

AASHTO TESTS : T190

Job No. Date Sampled: Date Tested: Name of Project:	BB0203 08/09/16 August 9, 2016 HWY.65B - HWY.65(F)	Stat Loca	erial Code ion No.: ation:	SSRVPS 64+00
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 35 Name: JEFFER: THORNTON 250162469 RV281	Dep AAS Mat	th: SHTO Class: erial Type (1 or 2): NGITUDE:	0-5 A-4(2) 2
1. Testing Inform				
	Preconditioning - Permanent Strain > Testing - Permanent Strain > 5% (Y= Number of Load Sequences Complet	Yes or N=No)	= No)	N N 15
2. Specimen Info	rmation:			
•	Specimen Diameter (in):			
	Тор			3.97
	Middle			3.96
	Bottom			3.96
	Average			3.96
	Membrane Thickness (in):			0.01
	Height of Specimen, Cap and Base (i	n):		8.02
	Height of Cap and Base (in):			0.00
	Initial Length, Lo (in):			8.02
	Initial Area, Ao (sq. in):			12.27
	Initial Volume, AoLo (cu. in):			98.39
3. Soil Specimen	Weight:			
	Weight of Wet Soil Used (g):	29		3265.50
4. Soil Properties	3 '			
4. John Toperties	Optimum Moisture Content (%):			13.8
	Maximum Dry Density (pcf):			113.3
	95% of MDD (pcf):			107.6
	In-Situ Moisture Content (%):			N/A
5. Specimen Pro	nerties:			
	Wet Weight (g):			3265.50
	Compaction Moisture content (%):			13.9
	Compaction Wet Density (pcf):			126.45
	Compaction Dry Density (pcf):			111.02
	Moisture Content After Mr Test (%):			14.1
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicat	ole):		#VALUE!
7. Resilient Modu	ılus, Mr:		9916(Sc	e)^-0.34673(S3)^0.38005
8. Comments				
9. Tested By:	DEB	Date: Aug	ust 9, 2016	

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

SSRVPS

Material Code Station No.:

Location:

64+00

Job No. BB0203

Date Sampled: 08/09/16

Date Tested: August 9, 2016

Name of Project: HWY.65B - HWY.65(F)

County:Code: 35Name:JEFFERSONSampled By:THORNTON

Sampled By: THORNTON
Lab No.: 250162469
Sample ID: RV281

LATITUDE:

Material Type (1 or 2): 2 LONGITUDE:

Depth:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
					-	Stress					
DESIGNATION	స్	Scyclic	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	చ	Ā
UNIT	psi	psi	sql	sql	sql	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.1	22.5	2.6	2.0	1.8	0.2	0.00095	0.00012	15,530
Sequence 2	0.9	4.0	47.1	44.5	2.6	3.8	3.6	0.2	0.00215	0.00027	13,500
Sequence 3	0.9	0.9	69.1	65.8	3.3	5.6	5.4	0.3	0.00363	0.00045	11,844
Sequence 4	0.9	8.0	91.4	85.6	5.8	7.5	7.0	0.5	0.00560	0.00070	9,988
Sequence 5	0.9	10.0	113.3	105.0	8.3	9.2	9.8	0.7	0.00779	0.00097	8,808
Sequence 6	4.0	2.0	25.0	22.4	2.6	2.0	1.8	0.2	0.00112	0.00014	13,117
Sequence 7	4.0	4.0	46.1	43.5	2.6	3.8	3.5	0.2	0.00265	0.00033	10,744
Sequence 8	4.0	0.9	66.4	63.8	2.6	5.4	5.2	0.2	0.00446	0.00056	9,355
Sequence 9	4.0	8.0	88.9	84.0	4.9	7.2	6.8	0.4	0.00650	0.00081	8,446
Sequence 10	4.0	10.0	110.7	103.2	7.5	9.0	8.4	9.0	0.00875	0.00109	7,708
Sequence 11	2.0	2.0	24.6	22.0	5.6	2.0	1.8	0.2	0.00138	0.00017	10,414
Sequence 12	2.0	4.0	45.2	42.4	2.8	3.7	3.5	0.2	0.00322	0.00040	8,596
Sequence 13	2.0	0.9	64.5	61.7	2.8	5.3	5.0	0.2	0.00540	0.00067	7,469
Sequence 14	2.0	8.0	85.1	9.08	4.5	6.9	9.9	0.4	0.00776	0.00097	6,790
Sequence 15	2.0	10.0	106.3	99.2	7.0	8.7	8.1	9.0	0.01027	0.00128	6,315

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/09/16

Station No.: 64+00

Date Tested:

August 9, 2016

Location:

County:

Name of Project: HWY.65B - HWY.65(F)

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No.:

250162469

AASHTO Class: A-4(2)

Sample ID:

RV281

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

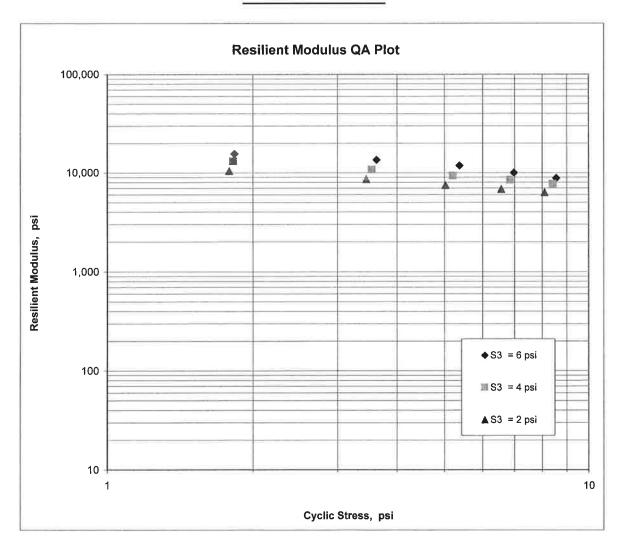
$$K1 = 9,916$$

$$K1 = 9,916$$

 $K2 = -0.34673$

$$K5 = 0.38005$$

$$R^2 = 0.98$$



Job No.	BB0203	Material Code	SSRVPS	
Date Sampled: Date Tested:	08/09/16 August 9, 2016	Station No.: Location:	107+00 CL	
Name of Project:	HWY.65B - HWY.65(F)	Docation.	CL	
County:	Code: 35 Name: JEFFERSON			
Sampled By:	THORNTON	Depth:	()-5
Lab No.:	250162418	AASHTO Class:	Ä	A-4 (0)
Sample ID:	RV271	Material Type (1		
LATITUDE:		LONGITUDE:		
1. Testing Inform				
	Preconditioning - Permanent Strain > 5% (Y	•		N
	Testing - Permanent Strain > 5% (Y=Yes or I	•		N
	Number of Load Sequences Completed (0-15)	5)		15
2. Specimen Info				
	Specimen Diameter (in):			
	Тор			3.96
	Middle			3.96
	Bottom			3.96
	Average			3.96
	Membrane Thickness (in):			0.01
	Height of Specimen, Cap and Base (in): Height of Cap and Base (in):			8 0.00
	Initial Length, Lo (in):			8
	Initial Area, Ao (sq. in):			12.25
	Initial Volume, AoLo (cu. in):			97.98
	miliai voidine, Aolo (cd. iii).			97.90
3. Soil Specimen	-			
	Weight of Wet Soil Used (g):			3343.60
4. Soil Properties	:			
	Optimum Moisture Content (%):			12.7
	Maximum Dry Density (pcf):			117.5
	95% of MDD (pcf):			111.6
	In-Situ Moisture Content (%):			N/A
5. Specimen Pro	perties:			
	Wet Weight (g):			3343.60
	Compaction Moisture content (%):			13.3
	Compaction Wet Density (pcf):			130.02
	Compaction Dry Density (pcf):			114.76
	Moisture Content After Mr Test (%):			13.1
6. Quick Shear To	est (Y=Yes, N=No, N/A=Not Applicable):			#VALUE!
7. Resilient Modu	ılus, Mr:	5	572(Sc)^-0.13618(S	33)^0.46599
8. Comments				
9. Tested By:	DEB	Date: August 9, 2016		
votou by.		- 1 tagast 0, 2010		

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

SSRVPS

107+00 CL Material Code Station No.: Location: HWY.65B - HWY.65(F) August 9, 2016 08/06/16 BB0203 Name of Project: Date Sampled: Date Tested: Job No.

JEFFERSON Name: Code: 35 THORNTON 250162418 RV271 Sampled By: Sample ID: Lab No.: County:

LATITUDE:

Material Type (1 or 2): 2 LONGITUDE:

A-4(0)

AASHTO Class:

Depth:

0-5

-	Ac	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
m Applied	Applied		Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
Max. Axial	Max. Axial C)	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
Stress Load	Load			Load	Axial	Stress	Stress	and 2		
					Stress					
S _{cyclic} P _{max}	Р _{шах}		Peyelic	Pcontact	S _{max}	Scyclic	Scontact	H _{avg}	ည်	Σ̈́
	lbs		sql	sql	psi	psi	psi	,i,	in/in	psi
2.0 25.0	25.0		22.1	2.9	2.0	1.8	0.2	0.00121	0.00015	11,907
4.0 47.1	47.1		44.2	2.9	3.8	3.6	0.2	0.00260	0.00032	11,106
6.0 70.0	70.0		66.2	3.8	5.7	5.4	0.3	0.00401	0.00050	10,789
8.0 93.0	93.0		86.7	6.3	7.6	7.1	0.5	0.00568	0.00071	9,971
10.0 116.1	116.1		107.2	8.8	9.5	8.8	0.7	0.00744	0.00093	9,418
2.0 24.6	24.6	-	21.7	2.8	2.0	1.8	0.2	0.00146	0.00018	9,755
4.0 45.5	45.5		42.6	2.9	3.7	3.5	0.2	0.00324	0.00041	8,583
6.0 66.2	66.2		63.2	3.0	5.4	5.2	0.2	0.00507	0.00063	8,142
8.0 89.2	89.2		83.7	5.4	7.3	6.8	0.4	0.00693	0.00087	7,892
10.0 112.6	112.6		104.7	7.9	9.2	8.5	9.0	0.00870	0.00109	7,858
2.0 23.9	23.9		21.0	2.9	1.9	1.7	0.2	0.00187	0.00023	7,348
4.0 43.3	43.3		40.4	2.9	3.5	3.3	0.2	0.00411	0.00051	6,420
6.0 62.6	62.6		59.6	3.0	5.1	4.9	0.2	0.00642	0.00080	6,063
8.0 84.2	84.2		9.62	4.6	6.9	6.5	0.4	0.00857	0.00107	6,065
10.0 106.1	106.1		0.66	7.1	8.7	8.1	9.0	0.01063	0.00133	6,087

August 9, 2016

DATE DATE

DEB

REVIEWED BY

TESTED BY

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

Name: JEFFERSON

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/09/16

Station No.: 107+00

Date Tested:

August 9, 2016

Location: CL

Name of Project: HWY.65B - HWY.65(F)

County:

Code: 35

Sampled By:

Depth: 0-5

Lab No.:

THORNTON 250162418

AASHTO Class: A-4(0)

Sample ID:

RV271

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

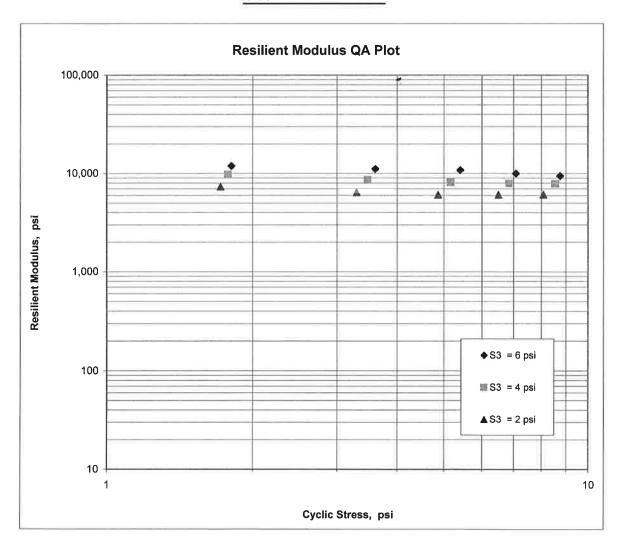
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 5,572

K2 = -0.13618

K5 = 0.46599

 $R^2 = 0.98$



Job No.	BB0203	Material Code	SSRVPS
Date Sampled:	08/10/16	Station No.:	159+00
Date Tested:	August 10, 2016	Location:	CL
Name of Project:	HWY.65B - HWY.65 (F)		
County:	Code: 35 Name: JEFFERSON		
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20162419 DV272	AASHTO Class:	A-4(0)
Sample ID: LATITUDE:	RV272	Material Type (1 or 2): LONGITUDE:	2
1. Testing Inform	nation:		
J	Preconditioning - Permanent Strain > 5% (Y	'=Yes or N= No)	N
	Testing - Permanent Strain > 5% (Y=Yes or	•	N
	Number of Load Sequences Completed (0-1		15
2. Specimen Info	ormation:		
	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.96
	Bottom		3.96
	Average		3.96
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8
	Initial Area, Ao (sq. in):		12.25
	Initial Volume, AoLo (cu. in):		97.98
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		3302.40
4. Soil Propertie	s:		
	Optimum Moisture Content (%):		12.0
	Maximum Dry Density (pcf):		116.8
	95% of MDD (pcf):		111.0
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	•		
	Wet Weight (g):		3302.40
	Compaction Moisture content (%):		15.1
	Compaction Wet Density (pcf):		128.42
	Compaction Dry Density (pcf):		111.57
	Moisture Content After Mr Test (%):		12.1
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	6102(S	c)^-0.08516(S3)^0.42977
8. Comments			
9. Tested By:	DEB	Date: August 10, 2016	

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

August 10, 2016 08/10/16 BB0203 Name of Project: Date Sampled: Date Tested: Job No.

Name: HWY.65B - HWY.65 (F) Code: 35

JEFFERSON THORNTON 20162419 Sampled By: Lab No.: County:

RV272 LATITUDE: Sample ID:

SSRVPS 159+00 Material Code Station No.: Location:

A-4(0) Material Type (1 or 2): 2 **AASHTO Class: LONGITUDE:**

9-0

Depth:

Resilient	Modulus				Σ̈́	psi	12,661	11,966	11,863	11,285	10,978	10,545	9,527	9,065	9,161	9,062
Resilient	Strain				ယ်	in/in	0.00014	0.00030	0.00046	0.00064	0.00083	0.00017	0.00038	0.00059	0.00079	0.00099
Average	Recov Def.	LVDT 1	and 2		Havg	ᆢ	0.00116	0.00244	0.00369	0.00516	0.00661	0.00137	0.00302	0.00475	0.00628	0.00793
Actual	Applied	Contact	Stress		Scontact	, psi	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	9.0
Actual	Applied	Cyclic	Stress		Scyclic	psi	1.8	3.6	5.5	7.3	9.1	1.8	3.6	5.4	7.2	9.0
Actual	Applied	Мах.	Axial	Stress	S _{max}	psi	2.1	3.9	5.8	7.8	9.8	2.0	3.8	5.6	7.6	9.6
Actual	Applied	Contact	Load		P _{contact}	lbs	2.8	2.9	3.7	6.2	8.7	2.9	2.9	2.9	5.3	7.8
Actual	Applied	Cyclic Load			P _{cyclic}	sql	22.4	44.6	67.0	89.1	111.1	22.2	44.0	62.9	88.1	110.1
Actual	Applied	Max. Axial	Load		Р _{тах}	sqi	25.3	47.5	7.07	95.3	119.7	25.1	46.9	68.8	93.5	117.8
Nominal	Maximum	Axial	Stress		Scyclic	psi	2.0	4.0	6.0	8.0	10.0	2.0	4.0	6.0	8.0	10.0
Chamber	Confining	Pressure			Š	psi	0.9	6.0	0.9	0.9	0.9	4.0	4.0	4.0	4.0	4.0
		PARAMETER	10		DESIGNATION	UNIT	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sednence 8	Sequence 9	Sequence 10

8,062

0.00022 0.00048 0.00076 0.00100 0.00122

0.2

2.0 3.7 5.5 7.4 9.4

21.8 42.8 64.2 86.3

24.7

2.0 4.0 6.0

2.0 2.0 2.0 2.0 2.0

45.7 67.1

6,889 7,074

7,231

0.00973 0.00797

6.9

107.7

114.6 8.06

10.0 8.0

Sequence 14 Sequence 15

Sequence 12 Sequence 13

Sequence 11

2.9 4.4

2.9

0.4 9.0

7,252

0.00386 0.00177

> 0.2 0.2

3.5 5.2 7.0 8.8

0.00609

August 10, 2016	
DATE	DATE
DEB	
TESTED BY	REVIEWED BY

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/10/16

Station No.: 159+00

Date Tested:

August 10, 2016

Name of Project: HWY.65B - HWY.65 (F)

Location: CL

County:

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No .:

20162419

AASHTO Class: A-4(0)

Sample ID:

RV272

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

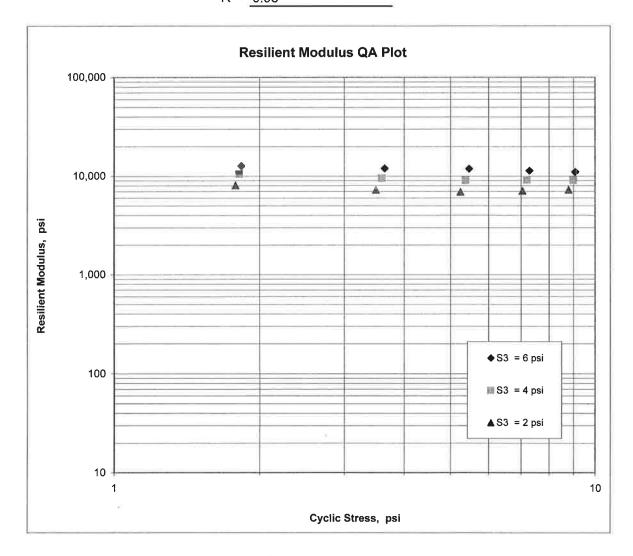
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 6,102$$

K2 = -0.08516

K5 = 0.42977

 $R^2 = 0.98$



Job No. Date Sampled:	BB0203 08/10/16	Material Code Station No.:	SSRVPS 211+00	
Date Tested:	August 10, 2016	Location:	CL	
Name of Project:	HWY.65B - HWY.65 (F)			
County:	Code: 35 Name: JEFFERSON			
Sampled By:	THORNTON	Depth:		0-5
Lab No.:	20162420	AASHTO Class:		A-4(0)
Sample ID:	RV273	Material Type (l or 2):	2
LATITUDE:		LONGITUDE:		
1. Testing Inform				
	Preconditioning - Permanent Strain > 5% (· ·		N
	Testing - Permanent Strain > 5% (Y=Yes or	•		N
	Number of Load Sequences Completed (0-1	5)		15
2. Specimen Info	rmation:			
	Specimen Diameter (in):			
	Тор			3.96
	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):			12.21
	Initial Volume, AoLo (cu. in):			97.90
3. Soil Specimen	Weight:			
	Weight of Wet Soil Used (g):			3236.30
4. Soil Properties	: :			
	Optimum Moisture Content (%):			11.9
	Maximum Dry Density (pcf):			118
	95% of MDD (pcf):			112.1
	In-Situ Moisture Content (%):			N/A
5. Specimen Pro	perties:			
	Wet Weight (g):			3236.30
	Compaction Moisture content (%):			12.4
	Compaction Wet Density (pcf):			125.96
	Compaction Dry Density (pcf):			112.06
	Moisture Content After Mr Test (%):			11.7
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):			#VALUE!
7. Resilient Modu	ulus, Mr:		7824(Sc)^-0.14120	(S3)^0.41224
8. Comments				
9. Tested By:	DEB/BH	Date: August 10, 2016	3	
•	·			

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

SSRVPS

211+00

Material Code Station No.: Location: HWY.65B - HWY.65 (F) August 10, 2016 08/10/16 3B0203 Name of Project: Date Sampled: Date Tested: Job No.

County:Code: 35Name:JEFFERSONSampled By:THORNTONLab No.:20162420

Sample ID: RV273 LATITUDE:

Depth: 0-5
AASHTO Class: A-4(0)
Material Type (1 or 2): 2

LONGITUDE:

Modulus 12,576 10,218 Resilient 15,063 14,021 13,297 11,995 12,656 11,287 10,511 10,170 9,784 bsi ≱ັ 0.00032 0.00050 0.00074 0.00012 0.00014 0.00068 0.00086 0.00018 Resilient 0.00026 0.00041 0.00057 Strain in/in ည် Recov Def. 0.00594 0.00253 0.00402 0.00115 0.00456 0.00549 0.00688 0.00144 Average 0.00326 and 2 0.00097 0.00207 LVDT 1 H_{avg} Applied Contact Stress Scontact Actual 0.2 0.2 0.3 0.5 0.2 0.2 0.2 0.4 9.0 0.2 0.7 psi Applied Stress Scyclic Actual Cyclic 7.0 <u>6</u>. 3.6 8.9 ر 8 3.6 5.3 5.4 8.7 <u>6</u> psi 7.1 Stress Actual 4pplied Axia! Smax Мах. 2.0 3.8 9.6 2.0 3.8 5.5 7.4 2.0 5.7 7.7 9.4 psi Contact Pcontact Applied Actual A Load 3.6 2.9 5.3 2.9 2.8 8.6 2.8 2.8 7.8 g 6.1 Max. Axial Cyclic Load Applied Pcyclic Actual 106.5 108.4 21.5 22.2 44.2 0.99 87.3 22.1 43.4 64.3 85.4 lps Applied **Actual** Load 24.9 47.0 9.69 93.4 117.0 24.8 114.3 24.3 P ×a ×a 46.2 67.1 90.7 <u>p</u>s Maximum Nominal Stress Scyclic Axial 10.0 10.0 2.0 4.0 8.0 8.0 6.0 6.0 2.0 4.0 2.0 psi Confining Chamber Pressure 6.0 6.0 6.0 6.0 6.0 0.4 4.0 4.0 4.0 4.0 2.0 တိ psi DESIGNATION **PARAMETER** Sequence 10 Sequence 3 Sequence 6 Sequence 11 Sequence 2 Sequence 4 Sequence 5 Sequence 8 Sequence 9 Sequence 1 Sequence 7

August 10, 20	
DATE	DATE
DEB/BH	REVIEWED BY
TESTED BY	REVIE

8,734 8,133 7,992 7,979

0.00039

0.00316

0.2

3.4

3.7

2.9

42.0 62.2 82.7

44.9

4.0

2.0 2.0 2.0 2.0

Sequence 12 Sequence 13

65.1

6.0

3.0

0.00085

0.00680

0.6

6.8 5.5

7.1

7.0

87.2 110.2

8.0

Sequence 14 Sequence 15

9.0

103.2

10.0

5.1

0.00106

0.00063

0.00502

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/10/16

Station No.: 211+00

Date Tested:

August 10, 2016

Location: CL

Name of Project: HWY.65B - HWY.65 (F)

County:

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No .:

20162420

AASHTO Class: A-4(0)

Sample ID:

RV273

Material Type (1 or 2): 2

LATITUDE:

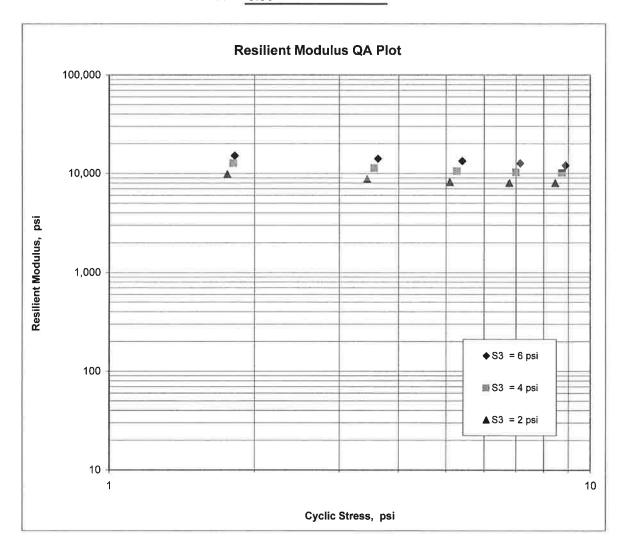
LONGITUDE:

$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K2 = -0.14120$$

$$K5 = 0.41224$$

$$R^2 = 0.99$$



Job No. Date Sampled: Date Tested:	BB0203 08/10/16 August 10, 2016	Material Code Station No.: Location:	SSRVPS 269+00 CL
Name of Project: County: Sampled By: Lab No.: Sample ID: LATITUDE:	HWY.65B - HWY.65 (F) Code: 35 Name: JEFFERSON THORNTON 20162421 RV274	Depth: AASHTO Class: Material Type (1 or 2): LONGITUDE:	0-5 A-6(4) 2
1. Testing Inform	nation:		
	Preconditioning - Permanent Strain > 5% (\text{Y=Yes or Number of Load Sequences Completed (0-1)}	N=No)	N N 15
2. Specimen Info	rmation:		
	Specimen Diameter (in):		
	Тор		3.99
	Middle		3.99
	Bottom		3.99
	Average Membrane Thickness (in):		3.99 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):		12.43
	Initial Volume, AoLo (cu. in):		99.73
3. Soil Specimen	Weight:		
•	Weight of Wet Soil Used (g):		3252.80
4. Soil Properties	3:		
	Optimum Moisture Content (%):		14.8
	Maximum Dry Density (pcf):		112.9
	95% of MDD (pcf):		107.3
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	•		
	Wet Weight (g):		3252.80
	Compaction Moisture content (%):		15.5
	Compaction Wet Density (pcf):		124.28
	Compaction Dry Density (pcf): Moisture Content After Mr Test (%):		107.60 15.1
6 Ouick Shear To	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
J. Waler Olical I	ουτ (1 – 169, 11–110, 111Α–110 ε Αμμποαυίο).		#VALUE!
7. Resilient Modu	ulus, Mr:	8181(S	c)^-0.45121(S3)^0.33182
8. Comments			
_			
9. Tested By:	DEB/BH	Date: August 10, 2016	

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

HWY.65B - HWY.65 (F) August 10, 2016 08/10/16 BB0203 Name of Project: Date Sampled: Date Tested: Job No.

SSRVPS 269+00 CL

Material Code

Station No.: Location:

Name: Code: 35

JEFFERSON THORNTON 20162421 RV274 Sampled By: Sample ID: Lab No.: County:

LATITUDE:

Material Type (1 or 2): 2 LONGITUDE: 9-5 Depth:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
છે	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
P	Pressure	Axial	_	Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
	S ₃	Scyclic	Р _{тах}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	చ్	M
1	psi	psi	sql	sql	lps	psi	psi	psi	Ŀ	in/in	psi
	6.0	2.0	25.5	22.7	2.7	2.0	1.8	0.2	0.00136	0.00017	10,777
	0.9	4.0	47.7	44.9	2.8	3.8	3.6	0.2	0.00307	0.00038	9,451
	0.9	6.0	66.69	66.1	3.9	5.6	5.3	0.3	0.00548	0.00068	7,771
	6.0	8.0	91.6	85.2	6.4	7.4	6.8	0.5	0.00907	0.00113	6,055
	0.9	10.0	113.4	104.4	8.9	9.1	8.4	0.7	0.01259	0.00157	5,348
	4.0	2.0	25.3	22.5	2.9	2.0	1.8	0.2	0.00156	0.00019	9,298
	4.0	4.0	46.8	43.9	2.9	3.8	3.5	0.2	0.00383	0.00048	7,387
	4.0	0.9	67.0	64.0	3.0	5.4	5.1	0.2	0.00683	0.00085	6,050
	4.0	8.0	89.4	83.8	5.6	7.2	6.7	0.5	0.01031	0.00129	5,247
	4.0	10.0	111.8	103.7	8.1	9.0	8.3	0.7	0.01397	0.00174	4,788
	2.0	2.0	25.2	22.3	2.9	2.0	1.8	0.2	0.00182	0.00023	7,904
	2.0	4.0	45.9	43.1	2.9	3.7	3.5	0.2	0.00454	0.00057	6,122
	2.0	6.0	65.3	62.4	2.9	5.2	5.0	0.2	0.00808	0.00101	4,979
	2.0	8.0	86.2	81.6	4.6	6.9	9.9	0.4	0.01197	0.00149	4,393
	2.0	10.0	108.2	101.0	7.2	8.7	8.1	9.0	0.01590	0.00198	4,096

DATE	DATE
DEB/BH	
TESTED BY	REVIEWED BY

August 10, 2016

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/10/16

Station No.: 269+00

Date Tested:

August 10, 2016

Location: CL

Name of Project:

HWY.65B - HWY.65 (F)

County:

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No.:

20162421

AASHTO Class: A-6(4)

Sample ID:

RV274

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

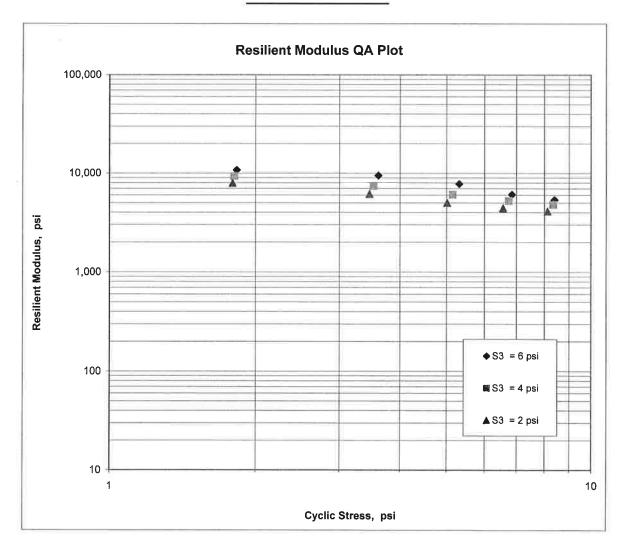
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 8,181$$

$$K2 = -0.45121$$

$$K5 = 0.33182$$

$$R^2 = 0.96$$



Job No.	BB0203	Material Code	SSRVPS
Date Sampled:	08/11/16	Station No.:	310+00
Date Tested:	August 12, 2016	Location:	CL
Name of Project:	HWY.65B - HWY.65(F)		
County:	Code: 35 Name: JEFFERSON		
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20162422	AASHTO Class:	A-6(4)
Sample ID:	RV275	Material Type (1 or	2): 2
LATITUDE:	.e.(LONGITUDE:	
1. Testing Inform			
	Preconditioning - Permanent Strain > 5%		N
	Testing - Permanent Strain > 5% (Y=Yes of	•	N
	Number of Load Sequences Completed (0	-15)	15
2. Specimen Info	ormation:		
	Specimen Diameter (in):		
	Тор		3.98
	Middle		3.97
	Bottom		3.96
	Average		3.97
	Membrane Thickness (in):		0.00
	Height of Specimen, Cap and Base (in):		8.04
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.04
	Initial Area, Ao (sq. in):		12.38
	Initial Volume, AoLo (cu. in):		99.52
3. Soil Specimer	. Weight:		
	Weight of Wet Soil Used (g):		3171.40
4. Soil Propertie	e·		
-i con i roperdo	Optimum Moisture Content (%):		13.6
	Maximum Dry Density (pcf):		114.4
	95% of MDD (pcf):		108.7
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	nortice		
o. opecimen Fro	Wet Weight (g):		2474 40
	Compaction Moisture content (%):		3171.40
	Compaction Wet Density (pcf):		14.2
	Compaction Dry Density (pcf):		121.42
	Moisture Content After Mr Test (%):		106.32 13.1
6 Owiek Sheer T	act (V-Vac N-Na N/A-Nat Applicable)		43.7A1.71E1
o. Quick Snear i	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	973	6(Sc)^-0.29219(S3)^0.29976
8. Comments			
9. Tested By:	DEB	Date: August 12, 2016	

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

Material Code Station No.: Location: HWY.65B - HWY.65(F) August 12, 2016 08/11/16 BB0203 Name of Project: Date Sampled: Date Tested: Job No.

SSRVPS 310+00 CL

0-5

County:Code: 35Name:JEFFERSONSampled By:THORNTONDepth:Lab No.:20162422AASHTSample ID:RV275Materia

AASHTO Class: A-6(4)
Material Type (1 or 2): 2
LONGITUDE:

LATITUDE:

	Chamber		Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
PARAMETER	Pressure	Maximum Axial	Applied Max. Axial	Applied Cyclic Load	Applied Contact	Арріїед Мах.	Appiled Cyclic	Applied Contact	Kecov Der. LVDT 1	Strain	sningolni
		Stress	Load		Load	Axia/	Stress	Stress	and 2		
						Stress					
DESIGNATION	ဟိ	Seyclic	P _{max}	P _{cyclic}	P _{contact}	S _{max}	Scyclic	Scontact	Havg	చ్	M
TINO	psi	psi	lps	sql	sql	psi	psi	psi	i	in/in	psi
Sequence 1	6.0	2.0	25.4	22.5	2.8	2.0	1.8	0.2	0.00108	0.00013	13,544
Sequence 2	0.9	4.0	47.7	44.8	2.9	3.9	3.6	0.2	0.00238	0.00030	12,222
Sequence 3	0.9	0.9	70.5	2.99	3.8	5.7	5.4	0.3	0.00393	0.00049	11,007
Sequence 4	0.9	8.0	93.4	87.1	6.3	7.5	7.0	0.5	0.00602	0.00075	9,399
Sequence 5	0.9	10.0	115.9	107.0	8.9	9.4	9.6	0.7	0.00823	0.00102	8,445
Sequence 6	4.0	2.0	25.3	22.4	2.8	2.0	1.8	0.2	0.00122	0.00015	11,905
Sequence 7	4.0	4.0	47.1	44.2	2.9	3.8	3.6	0.2	0.00280	0.00035	10,271
Sequence 8	4.0	0.9	68.1	65.2	2.9	5.5	5.3	0.2	0.00466	0.00058	9,088
Sequence 9	4.0	8.0	91.1	85.7	5.5	7.4	6.9	0.4	0.00679	0.00084	8,191
Sequence 10	4.0	10.0	113.7	105.6	8.0	9.2	8.5	9.0	0.00909	0.00113	7,548
Sequence 11	2.0	2.0	25.1	22.3	2.8	2.0	1.8	0.2	0.00148	0.00018	9,833
Sequence 12	2.0	4.0	46.4	43.6	2.8	3.7	3.5	0.2	0.00325	0.00040	8,715
Sequence 13	2.0	0.9	66.7	63.8	2.9	5.4	5.2	0.2	0.00544	0.00068	7,610
Sequence 14	2.0	8.0	88.0	83.4	4.6	7.1	6.7	0.4	0.00789	0.00098	6,865
Sequence 15	2.0	10.0	109.9	102.7	7.2	8.9	8.3	9.0	0.01046	0.00130	6,377

August 12, 2016	
DATE	DATE
DEB	
TESTED BY	REVIEWED BY

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

Name: JEFFERSON

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/11/16

Station No.: 310+00

Date Tested:

August 12, 2016

Location: CL

Name of Project: HWY.65B - HWY.65(F)

County:

Code: 35

Sampled By:

THORNTON

Depth: 0-5

Lab No.:

AASHTO Class: A-6(4)

Sample ID:

20162422 RV275

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

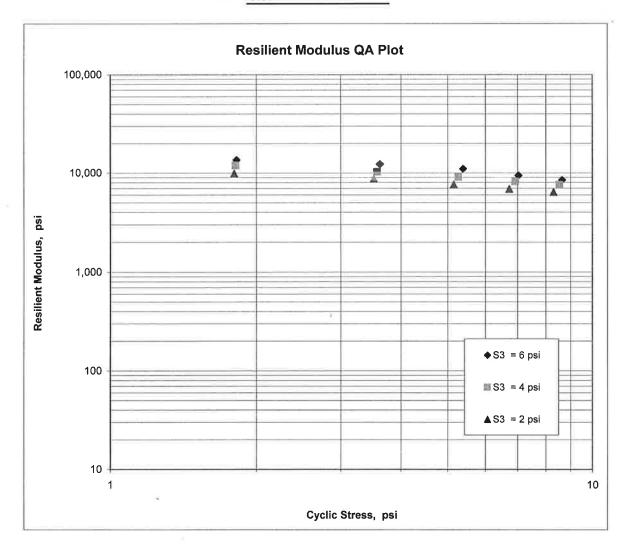
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 9,736$$

$$K2 = -0.29219$$

$$K5 = 0.29976$$

$$R^2 = 0.97$$



Job No. Date Sampled: Date Tested: Name of Project: County:	BB0203 08/11/16 August 12, 2016 HWY.65B - HWY.65(F) Code: 35 Name: JEFFERSON	Material Code Station No.: Location:	SSRVPS 380+00 CL	
Sampled By: Lab No.: Sample ID: LATITUDE:	THORNTON 20162423 RV276	Depth: AASHTO Class: Material Type (1 LONGITUDE:		0-5 A-6(6) 2
1. Testing Inform				
	Preconditioning - Permanent Strain > 5% (Y='Testing - Permanent Strain > 5% (Y=Yes or N: Number of Load Sequences Completed (0-15)	=No)		N N 15
2. Specimen Info	rmation:			
	Specimen Diameter (in):			
	Тор			3.95
	Middle Bottom			3.94 3.95
	Average			3.95
	Membrane Thickness (in):			0.01
	Height of Specimen, Cap and Base (in):			8.02
	Height of Cap and Base (in):			0.00
	Initial Length, Lo (in):			8.02
	Initial Area, Ao (sq. in):			12.17
	Initial Volume, AoLo (cu. in):			97.57
3. Soil Specimen	Weight:			
·	Weight of Wet Soil Used (g):			3093.30
4. Soil Properties	:			
ост. горогано	Optimum Moisture Content (%):			17.6
	Maximum Dry Density (pcf):			104.3
	95% of MDD (pcf):			99.1
	In-Situ Moisture Content (%):	36		N/A
5. Specimen Pro	perties:			
	Wet Weight (g):			3093.30
	Compaction Moisture content (%):			17.9
	Compaction Wet Density (pcf):			120.80
	Compaction Dry Density (pcf):			102.46
	Moisture Content After Mr Test (%):			17.6
6. Quick Shear To	est (Y=Yes, N=No, N/A=Not Applicable):			#VALUE!
7. Resilient Modu	ılus, Mr:	12	2697(Sc)^-0.3583	6(83)^0.19537
8. Comments				
9. Tested By:	<u>DEB</u> D	ate: August 12, 2016	3	

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

 Job No.
 BB0203

 Date Sampled:
 08/11/16

 Date Tested:
 August 12, 2016

 Name of Project:
 HWY.65B - HWY.65(F)

SSRVPS 380+00 CL

Material Code Station No.:

Location:

County: Code: 35 Name: JEFFERSON

Sampled By: THORNTON
Lab No.: 20162423
Sample ID: RV276

LATITUDE:

Material Type (1 or 2): 2 LONGITUDE:

0-5

Depth:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လ်ိ	Scyclic	Р _{шах}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	H _{avg}	ξ	M
UNIT	psi	psi	sql	sql	sql	psi	psi	psi	.⊑	in/in	psi
Sequence 1	6.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00104	0.00013	14,081
Sequence 2	6.0	4.0	46.7	44.0	2.7	3.8	3.6	0.2	0.00239	0.00030	12,166
Sequence 3	6.0	6.0	68.8	65.4	3.5	5.7	5.4	0.3	0.00403	0.00050	10,702
Sequence 4	6.0	8.0	6.06	84.9	5.9	7.5	7.0	0.5	0.00621	0.00077	600'6
Sequence 5	0.9	10.0	111.9	103.7	8.2	9.5	8.5	0.7	0.00885	0.00110	7,726
Sequence 6	4.0	2.0	24.9	22.2	2.7	2.0	1.8	0.2	0.00115	0.00014	12,745
Sequence 7	4.0	4.0	46.4	43.6	2.7	3.8	3.6	0.2	0.00265	0.00033	10,853
Sequence 8	4.0	0.9	67.1	64.4	2.8	5.5	5.3	0.2	0.00450	0.00056	9,421
Sequence 9	4.0	8.0	89.1	84.0	5.1	7.3	6.9	0.4	0.00673	0.00084	8,236
Sequence 10	4.0	10.0	110.2	102.7	7.5	9.1	8.4	9.0	0.00931	0.00116	7,273
Sequence 11	2.0	2.0	24.8	22.1	2.7	2.0	1.8	0.2	0.00129	0.00016	11,255
Sequence 12	2.0	4.0	46.0	43.3	2.7	3.8	3.6	0.2	0.00296	0.00037	9,635
Sequence 13	2.0	0.9	66.3	63.6	2.7	5.4	5.2	0.2	0.00501	0.00062	8,374
Sequence 14	2.0	8.0	8.98	82.6	4.2	7.1	6.8	0.3	0.00739	0.00092	7,363
Seguence 15	2.0	10.0	108.2	101.6	6.7	8.9	8.3	0.5	0.01008	0.00126	6,641

August 12, 2016

DATE DATE

DEB

REVIEWED BY

TESTED BY

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/11/16

Station No.: 380+00

Date Tested:

August 12, 2016

Name of Project: HWY.65B - HWY.65(F)

Code: 35

Location: CL

County:

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No.:

20162423

AASHTO Class: A-6(6)

Sample ID:

RV276

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

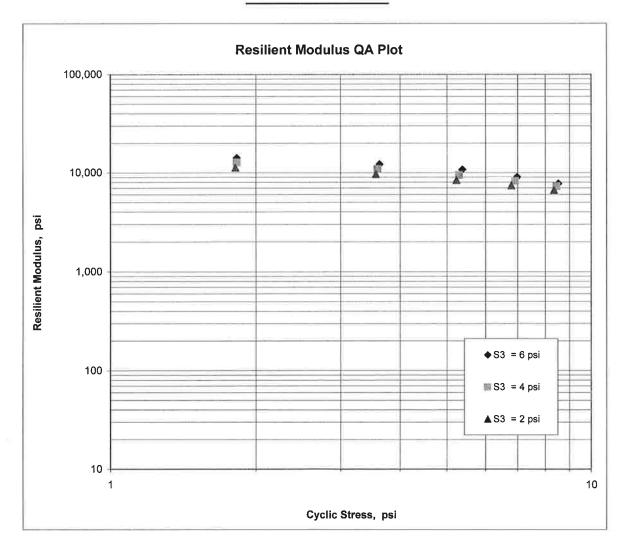
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 12,697

K2 = -0.35836

K5 = 0.19537

 $R^2 = 0.95$



Job No.	BB0203	Material Code	SSRVPS
Date Sampled:	08/15/16	Station No.:	434+00
Date Tested:	August 15, 2016	Location:	CL
Name of Project:	HWY.65B - HWY.65(F)		
County:	Code: 35 Name: JEFFERSON	5	۸.۳
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20162424 PN 277	AASHTO Class:	A-2-4(0) 2
Sample ID: LATITUDE:	RV277	Material Type (1 or 2): LONGITUDE:	2
		EONGII ODE.	
1. Testing Inform		A ALA	A1
	Preconditioning - Permanent Strain > 5% (Y		N
	Testing - Permanent Strain > 5% (Y=Yes or		N
	Number of Load Sequences Completed (0-1	b)	15
2. Specimen Info	rmation:		
	Specimen Diameter (in):		
	Тор		3.96
	Middle		3.95
	Bottom		3.96
	Average		3.96
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8
	Initial Area, Ao (sq. in):		12.23
	Initial Volume, AoLo (cu. in):		97.82
3. Soil Specimen	Weight:		
·	Weight of Wet Soil Used (g):		3262.60
4. Soil Properties			40.0
	Optimum Moisture Content (%):		10.3
	Maximum Dry Density (pcf):		118.3
	95% of MDD (pcf):		112.4
	In-Situ Moisture Content (%):		N/A
5. Specimen Prop	perties:		
	Wet Weight (g):		3262.60
	Compaction Moisture content (%):		10.2
	Compaction Wet Density (pcf):		127.09
	Compaction Dry Density (pcf):		115.32
	Moisture Content After Mr Test (%):		10.3
6. Quick Shear Te	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Modu	ılus, Mr:	4252(\$	Sc)^0.03729(S3)^0.45807
8. Comments			
9. Tested By:	DEB	Date: August 15, 2016	

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

SSRVPS 434+00

Material Code Station No.:

CL

Location:

HWY.65B - HWY.65(F) August 15, 2016 08/15/16 BB0203 Name of Project: Date Sampled: Date Tested: Job No.

Name: Code: 35 County:

20162424 Sampled By: Sample ID: Lab No.:

LATITUDE:

JEFFERSON THORNTON RV277

Material Type (1 or 2): 2 LONGITUDE: 0-5 Depth:

				_	_		_		_	_			=	=		=	_	_	_
Resilient Modulus			M	psi	10,302	10,251	10,504	10,469	10,519	8,236	7,978	7,982	8,500	8,731	060'9	5,764	6,253	6,468	6,637
Resilient Strain			ట్	in/in	0.00018	0.00036	0.00052	0.00069	0.00086	0.00022	0.00045	0.00067	0.00084	0.00102	0.00028	0.00059	0.00083	0.00106	0.00128
Average Recov Def.	and 2		H _{avg}	ŗ	0.00141	0.00285	0.00416	0.00555	0.00688	0.00173	0.00357	0.00536	0.00674	0.00815	0.00225	0.00469	0.00661	0.00845	0.01020
Actual Applied	Stress		Scontact	psi	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0.2	0.4	9.0	0.2	0.2	0.2	0.4	9.0
Actual Applied	Stress		Scyclic	psi	1.8	3.7	5.5	7.3	9.0	1.8	3.6	5.3	7.2	8.9	1.7	3.4	5.2	6.8	8.5
Actual Applied	Axial	Stress	S _{max}	psi	2.0	3.9	5.8	7.8	9.8	2.0	3.8	5.6	9.7	9.5	1.9	3.6	5.4	7.2	9.0
Actual Applied	Load		Pcontact	sqi	2.8	2.9	3.8	6.2	8.8	2.9	2.9	3.0	5.4	7.9	2.9	2.9	3.0	4.5	7.0
Actual Applied	Cyclic Edau		P _{cyclic}	sql	22.2	44.6	8.99	88.7	110.6	21.8	43.5	65.3	87.6	108.7	20.9	41.3	63.2	83.5	103.5
Actual Applied	Load		P _{max}	sql	25.1	47.5	9.02	95.0	119.4	24.7	46.4	68.3	93.0	116.6	23.8	44.2	66.2	88.0	110.6
Nominal Maximum	Stress		Scyclic	psi	2.0	4.0	0.9	8.0	10.0	2.0	4.0	0.9	8.0	10.0	2.0	4.0	0.9	8.0	10.0
Chamber Confining	ainssalu		လိ	psi	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
O L	TARAINIE I ER		DESIGNATION	UNIT	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Seguence 15

August 15, 2016

DATE DATE

DEB

REVIEWED BY

TESTED BY

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/15/16

Station No.: 434+00

Date Tested:

August 15, 2016

Location: CL

Name of Project:

HWY.65B - HWY.65(F)

County:

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No.:

20162424

AASHTO Class: A-2-4(0)

Sample ID:

20162424 RV277

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

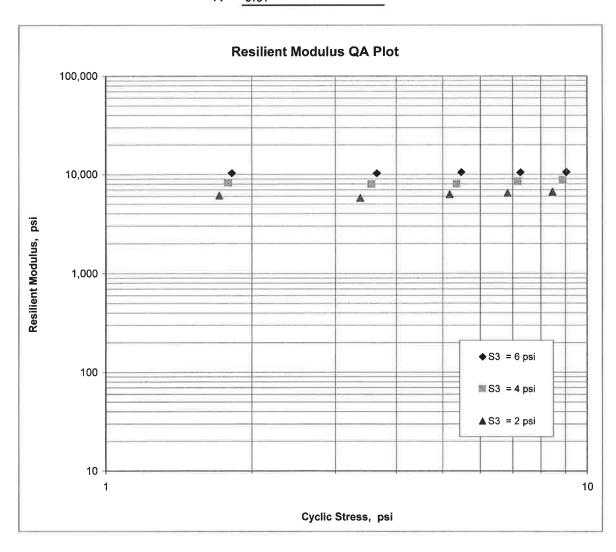
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 4,252

K2 = 0.03729

K5 = 0.45807

 $R^2 = 0.97$



Job No. Date Sampled: Date Tested: Name of Project:	BB0203 08/15/16 August 15, 2016 HWY.65B - HWY.65(F)	Material Code Station No.: Location:	SSRVPS 536+00 CL
County: Sampled By: Lab No.: Sample ID: LATITUDE:	Code: 35 Name: JEFFERSON THORNTON 20162426 RV279	Depth: AASHTO Class: Material Type (1 or 2) LONGITUDE:	0-5 A-4(3) 2
1. Testing Inform			
	Preconditioning - Permanent Strain > 5% (Y Testing - Permanent Strain > 5% (Y=Yes or Number of Load Sequences Completed (0-15)	N=No)	N N 15
2. Specimen Info	rmation:		
	Specimen Diameter (in):		
	Тор		3.95
	Middle		3.95
	Bottom		3.94
	Average		3.95
	Membrane Thickness (in):		0.01
	Height of Specimen, Cap and Base (in):		8.01
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.01 12.17
	Initial Area, Ao (sq. in):		97.44
	Initial Volume, AoLo (cu. in):		97.44
3. Soil Specimen	Weight:		
	Weight of Wet Soil Used (g):		3167.20
4 Call Daniella	2		
4. Soil Properties			14.8
	Optimum Moisture Content (%): Maximum Dry Density (pcf):		111.8
	95% of MDD (pcf):		106.2
	In-Situ Moisture Content (%):		N/A
	in the Molecule Content (70).		14//
5. Specimen Pro			*
	Wet Weight (g):		3167.20
	Compaction Moisture content (%):		14.8
	Compaction Wet Density (pcf):		123.84
	Compaction Dry Density (pcf):		107.88
	Moisture Content After Mr Test (%):		15.1
6. Quick Shear To	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Modu	ılus, Mr:	8377(5	Sc)^-0.18151(S3)^0.32391
8. Comments			
			
9. Tested By:	DEB	Date: August 15, 2016	

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

SSRVPS 536+00 CL Material Code Station No.: Location: 08/15/16 BB0203 Date Sampled: Job No.

HWY.65B - HWY.65(F) August 15, 2016 Name of Project: Date Tested:

JEFFERSON Name: Code: 35 County:

9-5

Material Type (1 or 2): 2 LONGITUDE: Depth: THORNTON 20162426 RV279 Sampled By: Sample ID: Lab No.:

LATITUDE:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	လိ	Scyclic	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	ά	Σ
TINO	psi	psi	lbs	sql	sql	psi	psi	psi	ij	in/in	psi
Sequence 1	0.9	2.0	24.7	21.8	2.8	2.0	1.8	0.2	0.00111	0.00014	12,990
Sequence 2	0.9	4.0	46.1	43.2	2.9	3.8	3.6	0.2	0.00233	0.00029	12,189
Sequence 3	0.9	6.0	67.8	64.1	3.7	5.6	5.3	0.3	0.00361	0.00045	11,708
Sequence 4	0.9	8.0	89.8	83.6	6.2	7.4	6.9	0.5	0.00514	0.00064	10,716
Sequence 5	0.9	10.0	111.4	102.7	8.7	9.2	8.4	0.7	0.00674	0.00084	10,040
Sequence 6	4.0	2.0	24.4	21.6	2.8	2.0	1.8	0.2	0.00122	0.00015	11,626
Sequence 7	4.0	4.0	45.0	42.2	2.8	3.7	3.5	0.2	0.00268	0.00033	10,369
Sequence 8	4.0	0.9	64.8	61.9	2.9	5.3	5.1	0.2	0.00422	0.00053	9,657
Sednence 9	4.0	8.0	86.4	81.1	5.3	7.1	6.7	0.4	0.00585	0.00073	9,117
Sequence 10	4.0	10.0	107.9	100.1	7.8	8.9	8.2	9.0	0.00750	0.00094	8,789
Sequence 11	2.0	2.0	23.8	21.1	2.7	2.0	1.7	0.2	0.00142	0.00018	9,789
Sequence 12	2.0	4.0	43.5	40.7	2.9	3.6	3.3	0.2	0.00315	0.00039	8,494
Sequence 13	2.0	0.9	61.9	59.0	2.9	5.1	4.9	0.2	0.00500	0.00062	7,777
Sequence 14	2.0	8.0	81.7	77.3	4.4	6.7	6.4	0.4	0.00677	0.00085	7,512
Sequence 15	2.0	10.0	102.1	95.2	6.9	8.4	7.8	9.0	0.00869	0.00109	7,214

August 15, 2016

DATE DATE

DEB

REVIEWED BY

TESTED BY

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/15/16

Station No.: 536+00

Date Tested:

August 15, 2016

Location: CL

Name of Project: HWY.65B - HWY.65(F)

August 15, 2010

Code: 35

Name: JEFFERSON

County: Sampled By:

THORNTON

Depth: 0-5

Lab No.:

20162426

AASHTO Class: A-4(3)

Sample ID:

RV279

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

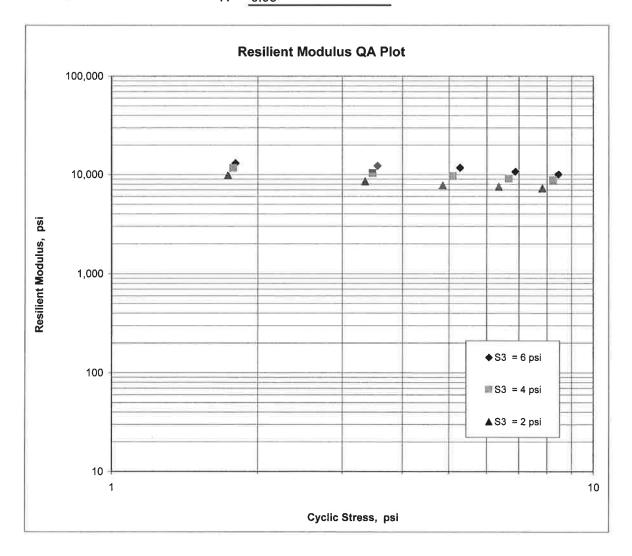
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 8,377$$

K2 = -0.18151

K5 = 0.32391

 $R^2 = 0.98$



Job No. Date Sampled:	BB0203 08/09/16	Material Code Station No.:	SSRVPS 595+00
Date Tested:	August 9, 2016	Location:	CL
Name of Project:	HWY.65B - HWY.65(F)		
County:	Code: 35 Name: JEFFERSON		
Sampled By:	THORNTON	Depth:	0-5
Lab No.:	250162426	AASHTO Class:	A-4(0)
Sample ID:	RV280	Material Type (1 or 2	2):
LATITUDE:		LONGITUDE:	
1. Testing Inform		(V-V	N
	Preconditioning - Permanent Strain > 5% (Y=Yes of Strain > 5% (Y=Y	,	N N
	Number of Load Sequences Completed (0-		15
	Number of Load Sequences Completed (0-	.15)	15
2. Specimen Info			
	Specimen Diameter (in):		0.05
	Top		3.95
	Middle		3.95
	Bottom		3.95 3.95
	Average 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):		12.19
	Initial Volume, AoLo (cu. in):		97.73
	miliai volume, Aoto (cu. iii).		31.73
3. Soil Specimen	_		
	Weight of Wet Soil Used (g):		3253.50
4. Soil Properties	s:		
	Optimum Moisture Content (%):		13.3
	Maximum Dry Density (pcf):		115.1
	95% of MDD (pcf):		109.3
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
	Wet Weight (g):		3253.50
	Compaction Moisture content (%):		13.3
	Compaction Wet Density (pcf):		126.84
	Compaction Dry Density (pcf):		111.95
	Moisture Content After Mr Test (%):		13.2
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mode	ulus, Mr:	6214((Sc)^-0.07011(S3)^0.40390
8. Comments			
	·		
9. Tested By:	DEB	Date: August 9, 2016	
-			

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

Material Code Station No.: Location: August 9, 2016 08/09/16 BB0203 Date Sampled: Date Tested: Job No.

SSRVPS 595+00 CL

Name of Project: HWY.65B - HWY.65(F)

County: Code: 35 Name: JEFFERSON

Sampled By: THORNTON
Lab No.: 250162426
Sample ID: RV280

Material Type (1 or 2): 2 LONGITUDE:

Depth:

LATITUDE:

	Chamber	Nominal	Actual	Actual	Actual	Actual	Actual	Actual	Average	Resilient	Resilient
	Confining	Maximum	Applied	Applied	Applied	Applied	Applied	Applied	Recov Def.	Strain	Modulus
PARAMETER	Pressure	Axial	Max. Axial	Cyclic Load	Contact	Мах.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	Š	Scyclic	P _{max}	P _{cyclic}	Pcontact	S _{max}	Scyclic	Scontact	Havg	3	Mr
	psi	psi	sql	sql	lps	psi	psi	psi	li	in/in	psi
Sequence 1	6.0	2.0	25.1	22.3	2.8	2.1	1.8	0.2	0.00120	0.00015	12,197
Sequence 2	6.0	4.0	47.3	44.4	2.9	3.9	3.6	0.2	0.00245	0.00031	11,944
Sequence 3	6.0	6.0	70.3	9.99	3.8	5.8	5.5	0.3	0.00374	0.00047	11,702
Sequence 4	6.0	8.0	94.4	88.2	6.2	7.7	7.2	0.5	0.00516	0.00064	11,259
Sequence 5	0.9	10.0	118.6	110.0	8.7	9.7	9.0	0.7	0.00654	0.00082	11,060
Sequence 6	4.0	2.0	24.7	21.9	2.9	2.0	1.8	0.2	0.00137	0.00017	10,478
Sequence 7	4.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00297	0.00037	9,653
Sequence 8	4.0	6.0	68.0	65.0	3.0	5.6	5.3	0.2	0.00461	0.00058	9,275
Sequence 9	4.0	8.0	92.1	86.7	5.4	7.6	7.1	0.4	0.00616	0.00077	9,259
Sequence 10	4.0	10.0	116.3	108.5	7.8	9.5	8.9	9.0	0.00766	0.00096	9,322
Sequence 11	2.0	2.0	24.3	21.5	2.9	2.0	1.8	0.2	0.00174	0.00022	8,110
Sequence 12	2.0	4.0	45.2	42.3	2.9	3.7	3.5	0.2	0.00373	0.00047	7,464
Sequence 13	2.0	6.0	62.9	67.9	3.0	5.4	5.2	0.2	0.00576	0.00072	7,184
Sequence 14	2.0	8.0	88.5	84.0	4.6	7.3	6.9	0.4	0.00765	0.00095	7,224
Sequence 15	2.0	10.0	112.0	104.9	7.1	9.2	8.6	9.0	0.00947	0.00118	7,294

August 9, 2016	
DATE	DATE
DEB	
TESTED BY	REVIEWED BY

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

Job No.

BB0203

Material Code SSRVPS

Date Sampled:

08/09/16

Station No.: 595+00

Date Tested:

August 9, 2016

Location: CL

County:

Name of Project: HWY.65B - HWY.65(F)

Code: 35

Name: JEFFERSON

Sampled By:

THORNTON

Depth: 0-5

Lab No .:

250162426

AASHTO Class: A-4(0)

Sample ID:

RV280

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

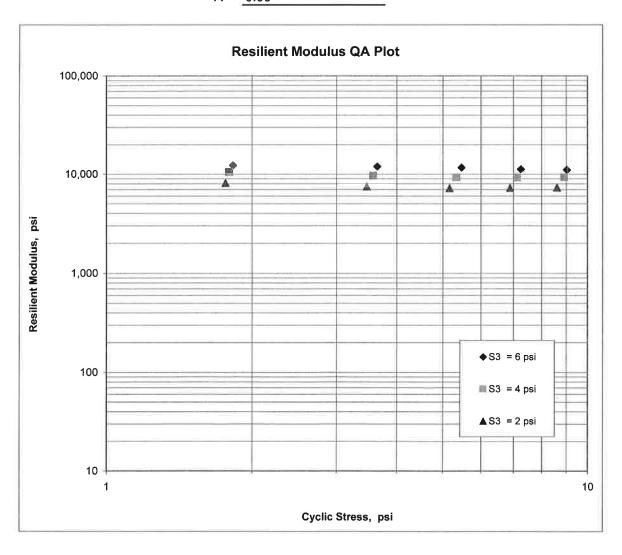
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 6,214

K2 = -0.07011

K5 = 0.40390

 $R^2 = 0.99$



JOB: **JOB NAME:** HWY.65B - WHY.65(F) BB0203

Arkansas State Highway Transporation Department

DATE TESTED 7/21/2016

Materials Division

Michael Benson, Materials Engineer

STA.# LOC. COUNTY NO. 35 PAVEMENT SOUNDINGS

	10	110	!	į
	ACHM SC	PCCP	52RT	120+00
	1.0	11.0		
	ACHM SC	PCCP	42LT	113+00
	1.0	11.5		
	ACHM SC	PCCP	40RT	107+00
	1.0	11.5		
	ACHM SC	PCCP	52LT	098+00
	1.0	11.5		
	ACHM SC	PCCP	52RT	094+00
	:00)	11.0 C		
	ACHM SC	PCCP	42LT	085+00
	1.0	11.5		
	ACHM SC	PCCP	42RT	082+00
	1.0	16.0		
	ACHM SC	PCCP	52LT	065+00
	1.0	11.25		
	ACHM SC	PCCP	52RT	064+00
	1.0	11.0		
	ACHM SC	PCCP	40LT	052+00
		11.25 C		
	ACHM SC	PCCP	40RT	051+00
5.0	1.0	11.5		
CEMENT T. BASE	ACHM SC	PCCP	52LT	037+00
	.25	11.5		
CEMENT T. BASE	ACHM SC	PCCP	52RT	036+00
	1.5	11.0		
CEMENT T. BASE	ACHM SC	PCCP	40RT	024+00
	1.0	11.5		
CEMENT T. BASE	ACHM SC	PCCP	40LT	023+00
On	1.0	11.5		
CEMENT T. BASE	ACHM SC	PCCP	52LT	010+00
I	0.5	11.25		
CEMENT T. BASE	ACHM SC	PCCP	52RT	010+00
ΙΑΝΕΙΝΕΙΝΙ ΒΟΟΙΜΕΙΝΟ			1000	

comments: C= CRACKED, W= MULTIPLE LAYERS

Wednesday, August 24, 2016

Page 1 of 5

))			The state of the s
314.#	700			PAVEMENI SOUNDINGS
125+00	52LT	PCCP	ACHM SC	
		11.0 C	1.0	
134+00	40RT	PCCP	CEMENT T. BASE	ACHM SC
		11.5	5 W	
140+00	40LT	PCCP	CEMENT T. BASE	ACHM SC
		11.0		1.0
147+00	52RT	PCCP	CEMENT T. BASE	ACHM SC
		11.25	I	1.0
150+00	52LT	PCCP	ACHM SC	CEMENT T. BASE
		11.0	1.0	Ch .
159+00	40RT	PCCP	ACHM SC	CEMENT T. BASE
		10.75	ı	5W
165+00	40LT	PCCP	ACHM SC	CEMENT T. BASE
		1	I	
172+00	52RT	PCCP	ACHM SC	
		11.0	1.25	
175+00	52LT	PCCP	ACHM SC	
		E	I	
185+00	40RT	PCCP	ACHM SC	
		11.25	1.0	
194+00	40LT	PCCP	ACHM SC	
198+00	52RT	PCCP	ACHM SC	
		10.5	1.0	
207+00	52LT	PCCP	ACHM SC	
		1		
211+00	40RT	PCCP	ACHM SC	CEMENT T. BASE
		11.0	1.0	
220+00	42LT	PCCP	ACHM SC	CEMENT T. BASE
		11.5	1.0	2.0 C
224+00	52RT	PCCP	ACHM SC	CEMENT T. BASE
		11.25	1.0	1
233+00	52LT	PCCP	ACHM SC	CEMENT T. BASE
		11.0	1.0	5.0
237+00	40RT	PCCP	ACHM SC	CEMENT T. BASE
		11.0	0.25	1
246+00	40LT	PCCP	ACHM SC	CEMENT T. BASE
		11.0	1	5.0
commonts:	- 8	= CRACKED, W= N	C= CRACKED, W= MULTIPLE LAYERS	

comments: C= CRACKED, W= MULTIPLE LAYERS

Wednesday, August 24, 2016

		C- CDACKED IAI- MIII TIBI E I AVEDS	- 000000 M-		
		1	12.0C		
		CEMENT T. BASE	PCCP	40LT	397+00
	1	16C	I		
	ACHM SC	PCCP	CHIP SEAL	52LT	384+00
	0.25	17	N		
	ACHM SC	PCCP	CHIP SEAL	52RT	380+00
	G I	11.0	Ä		
	ACHM SC	PCCP	CHIP SEAL	42LT	371+00
		Ċī	3		
		CEMENT T. BASE	PCCP	42RT	367+00
		5.0	11.5C		
		CEMENT T. BASE	PCCP	52LT	355+00
		1	11.0		
		CEMENT T. BASE	PCCP	52RT	349+00
5.0	1	1	11.0		
CEMENT T. BASE	SOIL CEMENT	ACHM SC	PCCP	42LT	342+00
5.0	J	1	11.0		
CEMENT T. BASE	SOIL CEMENT	ACHM SC	PCCP	42RT	340+00
Ī	18.0	1.5	10		
CEMENT T. BASE	SOIL CEMENT	ACHM SC	PCCP	52RT	323+00
		5.0	11.0		
		CEMENT T. BASE	PCCP	52LT	315+00
		-SHE 2	11.0		
		CEMENT T. BASE	PCCP	40RT	310+00
		5.0	11.5 C		
		CEMENT T. BASE	PCCP	40LT	300+00
	5.0 W	-	11.5		
	CEMENT T. BASE	ACHM SC	PCCP	52LT	285+00
	1	2.5	20		
	CEMENT T. BASE	ACHM SC	PCCP	52RT	282+00
	I	6.75	11.0		
	CEMENT T. BASE	ACHM SC	PCCP	40LT	272+00
			11.0		
		CEMENT T. BASE	PCCP	40RT	269+00
		7.0	11.0	<u> </u>	.00
		CEMENT T BACE		7 <u>2</u> 7	250+00
		1	18	!	
		CEMENT T. BASE	РССР	52RT	250+00
PAVEMENT SOUNDINGS				LOC.	STA.#

	5				DAVEMENT COUNDINGS
S1A.# 1	700.				FAFEMENT SOONDINGS
400+00	40RT	PCCP	CEMENT T. BASE		
		11.0	5.0		
410+00	52LT	PCCP	CEMENT T. BASE		
420+00	52RT	PCCP	ACHM SC	CEMENT T. BASE	
		20.0	1	1	
423+00	42LT	PCCP	ACHM SC	CEMENT T. BASE	
		12.0C	1	5.0	
434+00	42RT	PCCP	ACHM SC	CEMENT T. BASE	
		12.75	1.5	3	
436+00	52LT	PCCP	ACHM SC	CEMENT T. BASE	SOIL CEMENT
		11.0	2.0	5.0	
455+00	52RT	PCCP	ACHM SC	CEMENT T. BASE	SOIL CEMENT
		11.5	1.0	6.75	4.5
464+00	40LT	PCCP	ACHM SC	CEMENT T. BASE	SOIL CEMENT
		11.0 C	1.0	1	I
475+00	40RT	PCCP	ACHM SC	CEMENT T. BASE	
		11.0	1.0	I	
477+00	52LT	PCCP	ACHM SC	CEMENT T. BASE	
		11.0	1.0	6.0	
490+00	52LT	PCCP	ACHM SC	CEMENT T. BASE	
		11.0	1.0 C	1	
506+00	40LT	PCCP	ACHM SC	CEMENT T. BASE	
		13.0	1.0	1	
510+00	40RT	PCCP	ACHM SC	CEMENT T. BASE	
		12.0	1.0	Ĭ	
519+00	52LT	PCCP	ACHM SC	CEMENT T. BASE	
		12.0	1.0	5.0	
523+00	52RT	PCCP	ACHM SC	CEMENT T. BASE	
		12.0	1.5	6.0	
524+00	40RT	PCCP	ACHM SC	CEMENT T. BASE	
		11.5	1.0	į	
531+00	40LT	PCCP	ACHM SC	CEMENT T. BASE	
		12.0	1.0	5.0	
544+00	52LT	PCCP	ACHM SC	CEMENT T. BASE	
		11.5	1.5	5.5	
549+00	52RT	PCCP	ACHM SC	CEMENT T. BASE	
		12.25	1.0	1	
comments:	- 8	= CRACKED, W=	C= CRACKED, W= MULTIPLE LAYERS		
commen					1100 VC 100 VC 100 VC

STA.# LOC.	LOC.			PAVEMENT SOUNDINGS
559+00	40LT	PCCP	ACHM SC	CEMENT T. BASE
		13.5	0.25	
565+00	40RT	PCCP	SOIL CEMENT	CEMENT T. BASE
		13.0	1.0	
572+00	52LT	PCCP	SOIL CEMENT	CEMENT T, BASE
		11.0	1.0	6.0 C
575+00	52RT	PCCP	SOIL CEMENT	CEMENT T. BASE
		11.5	1	6.0 C
585+00	40LT	PCCP	ACHM SC	CEMENT T. BASE
		11.5	1.0	5.0
595+00	40RT	PCCP	ACHM SC	CEMENT T, BASE
		14.0	-:	1

JOB: BB0203

JOB NAME: XXXXX

Arkansas State Highway Transporation Department

Materials Division

Michael Benson, Materials Engineer COUNTY NO. DATE TESTED 8/14/2016 #4 #10 #40 #80 #200 STA.# LOC. DEPTH COLOR SOIL CLASS LAB #: %MOISTURE L.L.*P.I.* 107+00 CL 0-5 ND NP **BROWN** 89 82 44 A-4(0) RV271 90 86 159+00 CL 0-5 **BROWN** ND NP A-4(0)RV272 90 89 85 53 CL BR/GR A-4(0) **RV273** 211+00 0-5 78 72 64 44 19 04 **BROWN** A-6(4) **RV274** 269+00 CL 0-5 94 93 86 78 54 27 14 RV275 310+00 CL 0-5 **BROWN** 98 97 90 84 61 25 12 A-6(4) 58 **RV276** 380+00 CL 0-5 **BROWN** 100 100 95 30 16 A-6(6) 87 434+00 CL 0-5 **BROWN** 96 94 84 57 29 ND NP A-2-4(0) **RV277** NP A-4(0) **RV278** 488+00 CL 0-5 **BROWN** 95 91 88 78 55 ND CL **BROWN** 05 A-4(3) **RV279** 536+00 0-5 100 100 100 100 92 22 A-4(0) **RV280 BROWN** NP 595+00 CL 0-5 97 96 ND **RV281** 64+00 CL 0-5 **BROWN** 25 10 A-4(2) 96 89 80 53

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/17/1 JOB NUMBER - BB0203 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - XXXXX PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SU	SSIGNED RVEY SAMPLE IFICATION CHECK PPLICABLE COUNTY	DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 08/14/16
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC	- 107+00 - CL - 0-5 - BROWN - 34 13 27.20	- RV272 - RV273 - INFORMATION ONLY - INFORMATION ONLY - 159+00 - 211+00 - CL - CL - 0-5 - 0-5 - BROWN - BR/GR - 34 12 40.70 - 34 11 51.10
NO. 40	- 100 - 91 - 90 - 89 - 86 - 82	- 100 - 100 - 93 - 81 - 92 - 79 - 90 - 78 - 89 - 77 - 85 - 72 - 77 - 64 - 53 - 44
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- ND - NP - A-4(0)	- ND - 19 - NP - 04 - A-4(0) - A-4(0)

REMARKS =

0.5

AASHTO TESTS : T24 T88 T89 T90 T265

:

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/17/16 JOB NUMBER - BB0203 FEDERAL AID NO TO BE ASSI PURPOSE - SOIL SURVE SPEC. REMARKS - NO SPECIFE SUPPLIER NAME - STATE NAME OF PROJECT - XXXXX PROJECT ENGINEER - NOT APPE PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON, OF SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVE	EY SAMPLE CATION CHECK LICABLE COUNTY	SEQUENCE NO 2 MATERIAL CODE - RV SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 08/14/16 VALUE ACTUAL RESULTS
LAB NUMBER -	20162421	- 20162422 - 20162423
SAMPLE ID -	RV274	- RV275 - RV276
TEST STATUS -	INFORMATION ONLY	- INFORMATION ONLY - INFORMATION ONLY
STATION -	269+00	- 310+00 - 380+00
LOCATION -	CL	_ Cr _ Cr
DEPTH IN FEET -	0-5	0-5 0-5
MAT'L COLOR -	BROWN	BROWN BROWN
MAT'L TYPE -	24 11 00 10	
LATITUDE DEG-MIN-SEC -	34 11 20.10 92 03 16.00	- 34 10 55.60 - 34 10 20.40 92 02 34.60 92 01 23.00
LONGITUDE DEG-MIN-SEC -	92 03 16.00	92 02 34.60 92 01 23.00
% PASSING 2 IN		ē
1 1/2 IN		
3/4 IN	100	100
3/8 IN	97	- 99 - - 98 - 100
NO. 4 - NO. 10 -	94 93	97
NO. 10 - NO. 40 -	86	_ 90 _ 95
NO. 80 -	78	- 84 - 87
NO. 200 -	54	61 58
I TOUTD I THE	0.5	
LIQUID LIMIT - PLASTICITY INDEX -	27 14	- 25 - 30 - 12 - 16
AASHTO SOIL -	A-6(4)	- A-6(4) - A-6(6)
UNIFIED SOIL -	A-0(4)	A-0(4)
% MOISTURE CONTENT -		-
THOUSTONE CONTENT		
		-
_		
-		± ±
-		2 2
-		# ·
- -		
-		© © © © © © © © © © © © © © © © © © ©
-		· ·

REMARKS -

-

MICHAEL BENSON, MATERIALS ENGINEER

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

	SOID SORVET / FAVEHENT	SOONDING IESI	KEPORI """
SPEC. REMARKS - NO SP SUPPLIER NAME - STATE NAME OF PROJECT - XXX PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSA	ASSIGNED SURVEY SAMPLE ECIFICATION CHECK XX APPLICABLE S ON, COUNTY ON LE		SEQUENCE NO 3 MATERIAL CODE - RV SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 08/14/16 RESULTS
STATION LOCATION DEPTH IN FEET MAT'L COLOR	- 434+00 - CL	_ RV278	- 20162426 - RV279 N ONLY - INFORMATION ONLY - 536+00 - CL - 0-5 - BROWN
LONGITUDE DEG-MIN-SE	- C - 34 10 15.30 C - 92 00 20.30		1.60 - 34 11 13.10 1.50 91 58 54.00
NO. 1 NO. 4 NO. 8 NO. 20	N 100 N 98 4 - 96 0 - 94 0 - 84 0 - 57 0 - 29 - ND - NP	- 100 - 95 - 91 - 88 - 78 - 55 - ND - NP - A-4(0)	- 100 - 100 - 100 - 100 - 100 - 92 - 22 - 05 - A-4(3)
REMARKS -	- - - - -		

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SESUPPLIER NAME - STATE NAME OF PROJECT - XXX PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSALOCATION - JEFFERS SAMPLED BY - D.THORTO SAMPLE FROM - TEST HO	E ASSIGNED SURVEY SAMPI PECIFICATION XXX T APPLICABLE GON, COUNTY DN	CHECK		MATERIAL CODE SPEC. YEAR SUPPLIER ID. COUNTY/STATE DISTRICT NO. DATE SAMPLED DATE RECEIVED DATE TESTED	- 2014 - 1 - 35 - 02 - 07/14/16
MATERIAL DESC SOIL LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-SE LONGITUDE DEG-MIN-SE	- 201624 - RV280 - INFORM - 595+00 - CL - 0-5 - BROWN -	127 MATION ONLY	ALUE ACTUAL - 20162469 - RV281 - INFORMATIO - 64+00 - CL - 0-5 - BROWN	÷	
% PASSING 2 I 1 1/2 I 3/4 I 3/8 I NO. NO. 1	N N 100 N 99 4 - 97 0 - 96 0 - 91		- - 100 - 99 - 97 - 96 - 89 - 80 53	- - - - - - -	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- ND - NP - A-4((0)	- 25 - 10 - A-4(2) -	H H H H H H H H H H H H H H H H H H H	
REMARKS -	-		-	-	

REMARKS =

*

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

		0000001110 1110	- 1121 0111	
DATE - 08/24/16 JOB NUMBER - BB0203 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CH SUPPLIER NAME - STATE NAME OF PROJECT - HWY.65B - WHY.65(PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON, COUNTY SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMENT SOUNDINGS	F)		MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI	NO 1 CODE - PSO AR - 2014 ID 1 CATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/21/16
LAB NUMBER - 20162338	32	20162339	348	20162340
SAMPLE ID - TEST STATUS - INFORMAT STATION - 010+00 LOCATION - 52LT DEPTH IN FEET - MAT'L COLOR - MAT'L TYPE - LATITUDE DEG-MIN-SEC - 34 14	ION ONLY	- INFORMATIO - 010+00 - 52RT 34 14	ON ONLY	INFORMATION ONLY 023+00 40LT
nonortonn nao him ono	37.00	7- 03	47.00	00 20.20
<pre>% PASSING 2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 - NO. 10 - NO. 40 - NO. 80 - NO. 200 -</pre>	- - - - - - -	- - - - - -		
LIQUID LIMIT		-	4 5	
PLASTICITY INDEX	7.2		(4)	
AASHTO SOIL	-	-	= 1	
UNIFIED SOIL	-	-	原6 =27	
% MOISTURE CONTENT	0.7			
PCCP (IN) - 11.5 ACHM SC (IN) - 1.0 CEMENT T. BASE (IN) - 5		- 11.25 - 0.5 		11.5
REMARKS - C = CRACKED W= MILLTIPLE	T.AVEDS			

REMARKS - C = CRACKED, W= MULTIPLE LAYERS

:#: :#:

AASHTO TESTS : T24 T88 T89 T90 T265

•

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOR SAMPLE FROM - TEST MATERIAL DESC PAV	203 BE ASSI L SURVE SPECIFI TE WY.65B OT APPL SAS RSON, C TON HOLE	Y SAMPLE CATION CHECK - WHY.65(F) ICABLE OUNTY		MATERI SPEC. SUPPLI COUNTY DISTRI DATE S	CE NO 2 AL CODE - PSO YEAR - 2014 ER ID 1 /STATE - 35 CT NO 02 AMPLED - 07/14/16 ECEIVED - 07/21/16
LAB NUMBER	_			20162342	- 20162343
SAMPLE ID	14	20162341	35	20162342	20102343
TEST STATUS	_	INFORMATION	ONLY	INFORMATION ONLY	- INFORMATION ONLY
STATION	_	024+00		036+00	037+00
LOCATION	-	40RT	3.E	52RT	52LT
DEPTH IN FEET			16		*
MAT'L COLOR	344		0 11		#3
MAT'L TYPE	155		177		3
LATITUDE DEG-MIN-					34 14 20.80
LONGITUDE DEG-MIN-	SEC -	92 05 32	.40	92 05 24.00	92 05 15.60
% PASSING 2			\H:		HK.
·	IN		195		元 (-
	IN		-		
	IN		S ==		·
	4 -				ಹ
	10 - 40 -		323		
NO.			-		-
NO.					
LIQUID LIMIT	-		-		-
PLASTICITY INDEX AASHTO SOIL	_		=		5 7 5
UNIFIED SOIL	_		-		=
% MOISTURE CONTENT	-		-		
		11 0		11 5	# 11 E
PCCP	(IN) -	11.0 1.5	_	11.5 .25	- 11.5 - 1.0
ACHM SC CEMENT T. BASE	(IN) -	1.5	_	. 25	= 5.0
CEMENT I. DAGE	/	520,000	-	3-03-0-00	ā
	_		-		<u>=</u>
	_		_		-
	_		_		=
	_		-		<u> </u>
	_		_		2

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

-

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

* 1	** SOIL SU	RVEY / 1	PAVEMENT	SO	UNDING TES	T REPORT *	**	
DATE - 08/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - I PROJECT ENGINEER - I PIT/QUARRY - ARKAI LOCATION - JEFFI			SEQUENCE MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT	CODE = AR = ID. = TATE = NO. =	PSO 2014 1 35 02			
SAMPLED BY - D.THO						DATE REC		
SAMPLE FROM - TEST						DATE TES	TED =	07/22/16
MATERIAL DESC PA	VEMENT SOU	NDINGS	ONLY					
LAB NUMBER	- 20	0162344			20162345	34)	2016234	16
SAMPLE ID	_			ST		-		
TEST STATUS					INFORMATIO			ATION ONLY
STATION LOCATION	- 05 - 4(51+00		0	052+00 40LT		064+00 52RT	
DEPTH IN FEET	-	JKI		-	4011	=	52RI	
MAT'L COLOR	_					37(
MAT'L TYPE	_			141				
LATITUDE DEG-MIN-	SEC -	34 14	16.30	100	34 14	6.10	34 1	14 9.50
LONGITUDE DEG-MIN-	-SEC -	92 05	13.80		92 05	3.90	92 (8.60
% PASSING 2				=		<u>.</u>		
	· IN			-		<u>~</u>		
-	IN			=		-		
· ·	B IN -			=				
	4 - 10 -			-		=		
	40 -			-		-		
	80 -			-				
	200 -							
LIQUID LIMIT	_							
	_			-		=		
AASHTO SOIL	_			-		21		
UNIFIED SOIL	_			-		~		
% MOISTURE CONTENT	_			-		-		
PCCP	(IN) -	11.25	3		11.0	-	11.2	5
ACHM SC	(IN) -			-	1.0	-	1.0	
	-			-		-		
	~			144		=		
	_			0.000		-		
	-					=		
	-			-		9		
	_			-		-		
	-			2.67		-		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

--

AASHTO TESTS : T24 T88 T89 T90 T265

1

MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - BB FEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - ST. NAME OF PROJECT - PROJECT ENGINEER - PIT/QUARRY - ARKA	BE ASSI IL SURVE SPECIFI ATE HWY.65B NOT APPI NSAS ERSON, C RTON HOLE	CATION CHECK - WHY.65(F) ICABLE		SEQUENCE NO. 4 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16
LAB NUMBER	-	20162347	-	20162348 = 20162349
SAMPLE ID	_		1.5	30 2
TEST STATUS	-	INFORMATION C	NLY -	INFORMATION ONLY - INFORMATION ONLY
STATION	=	065+00	-	082+00 085+00
LOCATION	-	52LT	1 	42RT 42LT
DEPTH IN FEET	-		-	·
MAT'L COLOR MAT'L TYPE	_		-	₩ W
LATITUDE DEG-MIN	-SEC -	34 13 55.	20 -	34 13 53.80 - 34 13 42.30
LONGITUDE DEG-MIN				92 04 54.30 92 04 42.50
	IN		-	<u></u> 2: :
	1 IN		· **	₹)
	3 IN		2.77	±:
·	4 -		221	<u>≅</u> (
NO.	10 -		-	
NO.	40 -		-	
NO.	80 -		-	ψ
NO.	200 -		à?	
LIQUID LIMIT	-		(±	#2 X
PLASTICITY INDEX	-) (*	<u>₹</u>
AASHTO SOIL	-		\ @	-
UNIFIED SOIL	-		17	8 5
% MOISTURE CONTENT	<u> </u>			E .
PCCP	(IN) -	16.0		11.5 - 11.0 C
ACHM SC	(IN) -	1.0	75. 21.	1.0
	_		5 2	144 132
	_		*	*)
	-		7.	æ. κ
	_		8	<u>€</u>
	_		-	
	-			

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/24/1 JOB NUMBER - BB0203 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - HWY. 6 PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMEN	ASSI URVE CIFI S5B APPL U, C	Y SAMP CATION - WHY. ICABLE	CHE 65 (E	7)	(MATER SPEC. SUPPL COUNT DISTR DATE DATE	IAL YEA IER Y/ST ICT SAM REC	EIVED	PS 20 1 35 02 - 07 - 07	14
LAB NUMBER	-	20162	350			$\widetilde{\mathcal{C}}_{\mathcal{C}}$	20162	2351		-	20162	352	
SAMPLE ID	-					$\tilde{\omega}$				-			
TEST STATUS	-	INFOR	MATI	ON	ONLY	\overline{a}	INFOR	CTAMS	ON ONLY				ON ONLY
STATION		094+0	0				098+0	0 (107+0	0	
LOCATION	-	52RT				-	52LT			-	40RT		
DEPTH IN FEET	-					$\dot{\pi}$				-			
MAT'L COLOR	_					=				-			
MAT'L TYPE LATITUDE DEG-MIN-SEC	_	34	13	41	0.0	-	3.4	13	29.70	:=:	3.4	13	27.50
LONGITUDE DEG-MIN-SEC		92				-	92		35.30		92		36.70
		7.2	0 -						33.30				
% PASSING 2 IN						7				- 100 kg/s			
1 1/2 IN.						2				-			
3/4 IN 3/8 IN						÷				-			
NO. 4						\overline{a}				177			
NO. 10						=				_			
NO. 40						_							
NO. 80						=							
NO. 200	_												
LIQUID LIMIT	_					-				(22)			
PLASTICITY INDEX	_					20				i es			
AASHTO SOIL	_					=				-			
UNIFIED SOIL	_					-				-			
% MOISTURE CONTENT	-					20				-			
PCCP (IN	.) -	11.	5			_	11	5		144	11	5	
ACHM SC (IN		1.0				_	1.			:=	1.0		
Actin be (11)	-					-				*			
	-					-				-			
	_					_							
						-							
	-					-				_			
	-					-				-			
	-					-				-	5		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

*	** SOIL	SURVEY / PAVEM	ENT SO	UNDING TEST	r report *	* *				
JOB NUMBER - BB FEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - ST NAME OF PROJECT - PROJECT ENGINEER - PIT/QUARRY - ARKA LOCATION - JEFF SAMPLE FROM - TEST	BE ASSI IL SURVE SPECIFI ATE HWY.65B NOT APPL NSAS ERSON, C PRTON HOLE	Y SAMPLE CATION CHECK - WHY.65(F) ICABLE OUNTY		SEQUENCE NO 6 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16						
MATERIAL DESC PA	VEMENT S									
LAB NUMBER	-	20162353		20162354	¥*	20162355				
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR	-	INFORMATION O 113+00 42LT		INFORMATIO 120+00 52RT	30	INFORMATION ONLY 125+00 52LT				
MAT'L TYPE LATITUDE DEG-MIN	- -SEC -	34 13 20.2	20 =	34 13	19.30	34 13 10.30				
LONGITUDE DEG-MIN		92 04 27.3			28.00	92 04 18.30				
3/3/3/NO. NO. NO. NO.	IN 2 IN 4 IN 8 IN 4 - 10 - 40 - 80 - 200 -				-	# # # ** ** ** **				
LIQUID LIMIT	<u> </u>		2.55		20					
PLASTICITY INDEX	3.55		19		#46	35.				
AASHTO SOIL	7.5				===	¥				
UNIFIED SOIL			(=		=	(9)				
% MOISTURE CONTENT										
PCCP	(IN) -	11.0	5	11.0		11.0 C				
ACHM SC	(IN)	1.0		1.0	-	1.0				
	1990		~			(A)				
	-		===		-					
	-		Ξ.		-	Ř				
	-				-					
			-		-	75				
	=		2							
						36				
REMARKS - C= CRACK	ED, W= M	ULTIPLE LAYERS	3			6				
-						ž.				

AASHTO TESTS : T24 T88 T89 T90 T265

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/24/16 JOB NUMBER - BB0203 FEDERAL AID NO TO BE ASSI PURPOSE - SOIL SURVE SPEC. REMARKS - NO SPECIFI SUPPLIER NAME - STATE NAME OF PROJECT - HWY.65B PROJECT ENGINEER - NOT APPI PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON, OF SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMENT	EY SAMPLE CATION CHECK - WHY.65(F) LICABLE COUNTY	SEQUENCE NO 7 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/ DATE RECEIVED - 07/14/ DATE TESTED - 07/22/					
LAB NUMBER -	20162356	- 20162357	=:	20162358			
SAMPLE ID -	20102330	_	-	20102550			
TEST STATUS -	INFORMATION ONLY	- INFORMATIC	N ONLY -	INFORMATION ONLY			
	134+00		. 3				
LOCATION -	40RT	- 40LT	200	52RT			
DEPTH IN FEET -		-	340				
MAT'L COLOR -		-	2				
MAT'L TYPE -		_	======================================				
LATITUDE DEG-MIN-SEC -	34 13 7.50	- 34 12 !	53.90 =	34 12 57.20			
LONGITUDE DEG-MIN-SEC -	92 04 18.50	92 04	16.20	92 04 17.50			
% PASSING 2 IN							
1 1/2 IN		7 <u>2</u>	27				
3/4 IN		.:₩	×3				
3/8 IN		\mathrew{\text{\tin}\text{\te}\tint{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texi}\text{\texi}\tex{\texi}\text{\texi}\text{\texit{\texi}\text{\texi}\text{\texi}\t	#3				
NO. 4 -) 	57 4				
NO. 10 -			-				
NO. 40 -		\—	=				
NO . 80 -		// 2.	77/2				
NO . 200 -							
LIQUID LIMIT -		12	_				
PLASTICITY INDEX -		-	-				
AASHTO SOIL -		-	-				
UNIFIED SOIL -		-	_				
% MOISTURE CONTENT -		2	_				
	11 5	11 0	122	11 05			
PCCP (IN) - CEMENT T. BASE (IN) -	11.5 5 W	- 11.0	-	11.25			
CEMENT T. BASE (IN) - ACHM SC (IN) -	5 W	1.0	1/2	1.0			
ACHIT SC (IN)		-	72	1.0			
:W		_	·				
18		_	100				
55 50		_	1.5 725				
		_	2				
re.		-	::=:				
REMARKS - C= CRACKED, W= 1	MULTIPLE LAYERS						

AASHTO TESTS : T24 T88 T89 T90 T265

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

		•				•		
DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D. THOM SAMPLE FROM - TEST MATERIAL DESC PAN	BE ASSIL SURVI SPECIFI ATE HWY.65B HOT APPI JSAS ERSON, (RTON HOLE	EY SAMPLE ICATION CH - WHY.65(LICABLE COUNTY		SEQUENCE NO. 8 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/1 DATE RECEIVED - 07/2				
LAB NUMBER								
	15.	20162359		-	20162360	_	2016236	51
SAMPLE ID	=			\overline{z}		-		
TEST STATUS	12		ION ONLY	-		ON ONLY -		TION ONLY
STATION		150+00		-	159+00	-	165+00	
LOCATION	77	52LT			40RT	_	40LT	
DEPTH IN FEET	75			12		_		
MAT'L COLOR	15			: 64		_		
MAT'L TYPE	=			-		_		
LATITUDE DEG-MIN-		34 12		177	34 12	43.90 -	34 1	.2 31.20
LONGITUDE DEG-MIN-	SEC -	92 04	17.00		92 04	18.40	92 0	14 17.70
% PASSING 2	IN							
	IN.			_		-		
, ,	IN.			_		_		
	IN.			-				
	4			-		7		
				-		-		
	10			-		÷		
NO.				-		=		
NO.				-		7		
NO.	200 =							
LIQUID LIMIT	188			_				
PLASTICITY INDEX	100			-		₹A		
AASHTO SOIL	996			-		~		
UNIFIED SOIL	-			-		-		
% MOISTURE CONTENT	_			-		~		
PCCP	(IN) -	11.0		7	10.75	-		
ACHM SC	(IN) -	1.0		1.77		3.77		
CEMENT T. BASE	(IN)	5			5 W	_		
	-			100		-		
	-			(37)		-		
				~		2		
	· +:			1		-		
	===			$(x_i)_{i \in I}$				
	-			979		-		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

	. 2011	SURVEI	/ 1	PAVEMENI	50	ONDING	L TES	SI KEPUK	Ι ^	^ ^		
DATE - 08/2 JOB NUMBER - BB02 FEDERAL AID NO TO 1 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAT NAME OF PROJECT - HO PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - JEFFE					MATERI SPEC. SUPPLI COUNTY DISTRI	(AL YE# (ER (/S)	AR ID. FATE NO.	PS 20 1 35 02	14			
SAMPLED BY - D.THOR SAMPLE FROM - TEST D MATERIAL DESC PAV	ONLY					REC:	EIVED	- 07	/14/16			
LAB NUMBER	-	201623			-	20162	363		43	20162	364	
SAMPLE ID	18	201025	002			20102			***	20102	204	
TEST STATUS STATION LOCATION DEPTH IN FEET		INFORN 172+00 52RT		ON ONLY	10 to	INFOR 175+0 52LT		ON ONLY		INFOR 185+0 40RT		ON ONLY
MAT'L COLOR	7=				(11				-			
MAT'L TYPE					12				#70 #20			
LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S				34.50 19.00	: -	34 92		19.10 18.40	-	34 92		16.70 20.10
3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 - 200 -			A.			8:					
LIQUID LIMIT	150				-				23			
PLASTICITY INDEX	-								\sim			
AASHTO SOIL					:=:				-			
UNIFIED SOIL % MOISTURE CONTENT					-				-			
	·		_									
PCCP ACHM SC	(IN) - (IN) -	11.0			-	1222			_	11. 1.0		
nem se	(111)	1.2.	2		170				-	1.0	,	
					- 5				-			
	100				-				_			
	=								-			
									-			
	=				(6				_			

REMARKS @ C= CRACKED, W= MULTIPLE LAYERS

= 2 CTP .

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D. THOM SAMPLE FROM - TEST MATERIAL DESC PAN	D203 BE ASSI L SURVE SPECIFI ATE HWY.65B HOT APPI HSAS ERSON, CRON HOLE	Y SAMPLE CATION CHECK - WHY.65(F) ICABLE			SEQUENCE MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI DATE RECE DATE TEST	CODE IR ID PATE NO PLED EIVED	PSO 2014 1 35 02 07/14/16 07/14/16
LAB NUMBER	_	20162365	(10)	20162366	:#X	2016236	7
SAMPLE ID	-		$(x_i)_{i \in I}$				
TEST STATUS	-	INFORMATION ONLY	18	INFORMATION	ONLY =	INFORMA	TION ONLY
STATION	-	194+00	-	198+00	*	207+00	
LOCATION	-	40LT	100	52RT		52LT	
DEPTH IN FEET	-		I H		-		
MAT'L COLOR	-		2		=		
MAT'L TYPE	-		-		12 2		
LATITUDE DEG-MIN-	SEC -	34 12 2.60	-	34 12 5			1 50.50
LONGITUDE DEG-MIN-	SEC -	92 04 17.50		92 04 1	9.60	92 0	4 8.90
% PASSING 2	IN.		-		<u>.</u>		
1 1/2	IN		*		1		
3/4	IN.		-		=		
3/8	IN.		82		=======================================		
NO.	4		-				
NO.	10 -		-		**		
NO.	40 -		-		:#2		
NO.	80		-		~		
NO.	200						
LIQUID LIMIT	22		12		-		
PLASTICITY INDEX	12		\odot		-		
AASHTO SOIL	18		$(x_{ij})_{i \in \mathcal{I}}$		-		
UNIFIED SOIL			1		_		
% MOISTURE CONTENT			-		_		
PCCP	(IN) -	2-2-2	2	10.5	12		
ACHM SC	(IN) -		-	1.0			
ACIII DC	(T14)		=	1.0	0.75		
	-		-		72		
	-		-		2.00		
			-		17		
			2		12		
	92		-		€		
	98		=		15		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

#

3

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

*	** SOIL SURVEY	/ PAVEMENT	SOUNDING TE	ST REPORT *	**			
JOB NUMBER - BB FEDERAL AID NO TO	BE ASSIGNED IL SURVEY SAMP: SPECIFICATION ATE HWY.65B - WHY. NOT APPLICABLE NSAS ERSON, COUNTY RTON HOLE	SEQUENCE NO 11 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16						
LAB NUMBER	- 201623	168	20162369	<u>~</u>	20162370			
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN	- INFORM - 211+00 - 40RT 34	MATION ONLY) 11 53.60	- INFORMAT - 220+00 - 42LT - 34 11	ION ONLY	INFORMATION ONLY 224+00 52RT 34 11 44.10			
LONGITUDE DEG-MIN	-SEC - 92	04 14.30	92 03	57.20	92 04 1.60			
3/4 3/8 NO. NO. NO.	IN 2 IN 4 IN 3 IN 4 - 10 - 40 - 80 - 200 -		- - - - -					
LIQUID LIMIT	_			-				
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -		*	н Э				
PCCP	(IN) - 11.	0	11.5	-	11.25			
ACHM SC CEMENT T. BASE	(IN) - 1.0 (IN)		1.0 2.0 C	-	1.0			
	-		72	192				
	-		₹ =	E#3				
	-		18	355				
	-		15	277				
	-							
REMARKS - C= CRACK	ED, W= MULTIPL	E LAYERS						

AASHTO TESTS : T24 T88 T89 T90 T265

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOR SAMPLE FROM - TEST MATERIAL DESC PAN	203 BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CH TE WY.65B - WHY.65S OT APPLICABLE SAS RSON, COUNTY TON HOLE	HECK	SEQUENCE NO 12 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16						
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- 233+00 - 52LT - - - SEC - 34 11	CION ONLY							
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 -								
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	# # # #								
PCCP ACHM SC CEMENT T. BASE REMARKS - C= CRACKE	(IN) - 11.0 (IN) - 1.0 (IN) - 5.0	4 5 5 2 4 5	11.0	11.0					

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

AASHTO TESTS : T24 T88 T89 T90 T265

:

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

* *	, SOIL ;	SURVEY / PAVEM.	ENT SO	UNDING TEST	REPORT *	κх	
DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOR SAMPLE FROM - TEST MATERIAL DESC PAY	BE ASSICATE SPECIFICATE HWY.65B HOT APPLE HSAS ERSON, CO	Y SAMPLE CATION CHECK - WHY.65(F) ICABLE DUNTY			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI DATE RECE	NO. = 13 CODE = PSO R	4 14/16 14/16
	V DIADIVI D			00160075	-		
LAB NUMBER	-	20162374	_	20162375	-	20162376	
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- - - - - SEC -	52RT 34 11 34.1	- - - - - 0 -	259+00 52LT 34 11 2	N ONLY -	269+00 40RT 34 11 2	
	SEC -	92 03 34,1	U	92 03 .	17.90	92 03 2	23.00
3/4 3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 - 200 -						
LIQUID LIMIT	10		18:		≥:		
PLASTICITY INDEX			2		1497		
AASHTO SOIL			産		-		
UNIFIED SOIL					270 221		
% MOISTURE CONTENT	-		0.75				
PCCP CEMENT T. BASE	(IN) = (IN)	18	-	11.0 7.0	**************************************	11.0	
	*		-				
	()		-		(基)		
	-		_		-		
	=		_		-		
	-		-				
	-		-		_		
	-		-		-		
REMARKS - C≃ CRACKE	ED. W= M	ULTIPLE LAVERS					

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

-

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOE SAMPLE FROM - TEST MATERIAL DESC PAN	BE ASSI BE ASSI SPECIFI TE WY.65B OT APPI ISAS ERSON, (RTON HOLE	EY SAMPLE CATION CHECK - WHY.65(F) LICABLE COUNTY			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI DATE RECE	NO 14 CODE - PSO AR - 2014 ID 1 CATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 FED - 07/22/16
LAB NUMBER	-	20162377		20162378	,#7.V	20162379
SAMPLE ID	-		0.55		770	
TEST STATUS	-	INFORMATION ONLY	022	INFORMATION	N ONLY	INFORMATION ONLY
STATION	-	272+00	-	282+00	140	285+00
LOCATION	-	40LT	395	52RT	-	52LT
DEPTH IN FEET	_		12			
MAT'L COLOR	_				147	
MAT'L TYPE	-	24 11 14 60	300	24 11 1	2 00	24 11 6 60
LATITUDE DEG-MIN- LONGITUDE DEG-MIN-		34 11 14.60		34 11 1 92 03	6.60	34 11 6.60 92 02 53.40
LONGITODE DEG-MIN-	SEC -	92 03 6,50		92 03	6.60	92 02 55.40
% PASSING 2					29	9
	IN.				90	
	IN		-		3) 2)	
	IN				-	
	10		100		(40)	
	40 =					
	80 -		-		2	×
=	200					
LIQUID LIMIT	5 75		(**)			
PLASTICITY INDEX AASHTO SOIL	-					
UNIFIED SOIL			-			
% MOISTURE CONTENT			*		-	
PCCP	(IN) -	11.0	77	20	(A)	11.5
ACHM SC	(IN) -	6.75	55	2.5) A 92	F 0 M
CEMENT T. BASE	(IN)	#1#1#1			-	5.0 W
	38		π		8=	
	-				美	
	-		2		_	
	S##		-			
			=		16	

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

SI SI

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

	" SOIL SURVE! / PAVEMENT	SOUNDING TEST REPORT
JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOF SAMPLE FROM - TEST	BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE HWY.65B - WHY.65(F) NOT APPLICABLE NSAS ERSON, COUNTY	SEQUENCE NO 15 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16
LAB NUMBER	- 20162380	20162381 20162382
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- INFORMATION ONLY - 300+00 - 40LT	- INFORMATION ONLY - INFORMATION ONLY - 310+00 - 315+00 - 52LT
	52 02 33.10	52 62 40.00 52 62 25.00
3/4	10 - 40 - 80 -	
LIQUID LIMIT	*	·= 5:
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	** ** ** ** **	
PCCP	(IN) = 11.5 C	- 11.0 - 11.0
CEMENT T. BASE	(IN) 5.0	5.0
	-	
		.eee.
	-	· · · · · · · · · · · · · · · · · · ·
	*	* *
	취	
REMARKS - C= CRACKE	ED.	

REMARKS - C= CRACKED,

~

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

	DOIL	DOKVET /	FAVEMENT	50	ONDING IES	I KEPOKI "	
DATE - 08/ JOB NUMBER - BB0 FEDERAL AID NO TO DURPOSE - SOID SPEC. REMARKS - NO SUPPLIER NAME - STAN NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOR SAMPLE FROM - TEST	203 BE ASSI L SURVE SPECIFI TE WY.65B OT APPI SAS RSON, C TON HOLE	CY SAMPLE CATION C - WHY.65 LICABLE COUNTY			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAM	NO 16 CODE - PSO AR - 2014 ID 1 FATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 TED - 07/22/16	
MATERIAL DESC PAV	EMENT S	SOUNDINGS	3 ONLY				
LAB NUMBER	**	2016238	3) - =	20162384	200	20162385
SAMPLE ID	-	T11000117	m=017 0177 17				THEODINATION ON I
TEST STATUS			LION ONTA				INFORMATION ONLY
STATION		323+00			340+00	-	342+00
LOCATION	08	52RT			42RT	_	42LT
DEPTH IN FEET	06			-		20 20	
MAT'L COLOR				-		100 miles	
MAT'L TYPE	*						
LATITUDE DEG-MIN-S	SEC -	34 1	0 49.60	-	34 10	43.50	34 10 37.70
LONGITUDE DEG-MIN-	SEC -	92 0	2 22.50		92 02	10.50	92 01 56.40
3/4 3/8 NO. NO.						20 20 20 20 20 20 20 20 20 20 20 20 20 2	
LIQUID LIMIT	196					-	
PLASTICITY INDEX	-			\ e:		-	
AASHTO SOIL	3=			Ψ.		(20)	
UNIFIED SOIL				2		(40)	
% MOISTURE CONTENT				1		.=0	
PCCP	(IN) -	10		-	11.0	-	11.0
ACHM SC	(IN) -	1.5		-	en ter ini	J. (2)	
SOIL CEMENT	(IN) -	18.0		_		-	w
CEMENT T. BASE	(IN)			_	5.0	-	5.0
	=			_		-	
	12			_		-	
	-			_			
	(=)			_			
	177			~			

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

1 1

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - F PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOM SAMPLE FROM - TEST MATERIAL DESC PAN				MATER SPEC. SUPPI COUNT DISTR DATE DATE	RIAL YEA JIER JY/ST RICT SAM REC	EIVED	PS 20 1 3 5 - 0 2	50 014 5				
LAB NUMBER	_	20162	200			20162	207		-11	20162	200	
SAMPLE ID	_	20162	386			20162	30/			20162	388	
TEST STATUS	_	TNFOR	мат	ON ONLY	15	INFOR	ריד <i>י</i> ב <i>ו</i> ואו	ON ONL		TNFOR	там	LON ONLY
STATION		349+0				355+0		OIV OIVE		367+0		1011 01111
LOCATION	_	52RT			100	52LT			~	42RT		
DEPTH IN FEET	_				-				=			
MAT'L COLOR	_				-				#1.	1		
MAT'L TYPE	-				· · · · · · · · · · · · · · · · · · ·							
LATITUDE DEG-MIN-	SEC -	34	10	37.70	-	34	10	29.80	-	34	10	30.80
LONGITUDE DEG-MIN-	SEC -	92	01	59.00		92		40.70		92	01	45.50
3/4	10 - 40 - 80 -								# E E E E	*		
LIQUID LIMIT	_				-				31			
PLASTICITY INDEX	-								20			
AASHTO SOIL	-								= :			
UNIFIED SOIL	-				_				= 1			
% MOISTURE CONTENT	-											
PCCP	(IN) -	11.	0			11.	5C		=	11		
CEMENT T. BASE	(IN) -				-	5.0			-	5		
	-				Com.				_			
	_				300				-			
	_				-							
	_				-				-			
	-				$\cdot = \cdot$				-			
	_				: = :				-			
	_				-				-			

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN	BE ASSI IL SURVE SPECIFI ATE HWY.65B NOT APPL NSAS ERSON, C RTON HOLE	Y SAMPLE CATION CH - WHY.65(ICABLE		SEQUENCE NO 18 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 35 DISTRICT NO 02 DATE SAMPLED - 07/14/16 DATE RECEIVED - 07/14/16 DATE TESTED - 07/22/16	
LAB NUMBER	_	20162389		875	20162390 = 20162391
SAMPLE ID	_	20102305		-	20102331
TEST STATUS	-	INFORMAT:	ION ONLY	Tie	INFORMATION ONLY - INFORMATION ONLY
STATION	-	371+00		14	380+00 384+00
LOCATION	~	42LT		-	52RT 52LT
DEPTH IN FEET	-			\© ⊈	
MAT'L COLOR	_			-	=);
MAT'L TYPE	_				=v
LATITUDE DEG-MIN-		34 10		-	34 10 21.20 - 34 10 19.70
LONGITUDE DEG-MIN-	SEC -	92 01	27.90		92 01 24.90 92 01 13.10
% PASSING 2	IN			-	-
1 1/2	IN			-	-
3/4	IN -				-
3/8	IN -			_	-
	4 -			-	_
	10 -			177	-
	40 -			-	-
NO.				=	-
NO.	200 -				
LIQUID LIMIT	-			-	-
PLASTICITY INDEX	-			-	-
AASHTO SOIL	-			-	-
UNIFIED SOIL	-			-	-
% MOISTURE CONTENT	_			-	
CHIP SEAL	(IN) -			-	2
PCCP	(IN) -	11.0		-	17 16C
ACHM SC	(IN) -	5		-	0.25
	-				(=)
	_			-	=
	_			-	==== ==
	-			-	€
	-				
	_				5

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

AASHTO TESTS : T24 T88 T89 T90 T265

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/24/16 JOB NUMBER - BB0203 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAM SPEC. REMARKS - NO SPECIFICATION SUPPLIER NAME - STATE NAME OF PROJECT - HWY.65B - WHY PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON, COUNTY SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMENT SOUNDS	ON CHECK Y.65(F) LE	MATI SPEC SUPI COUI DIST	UENCE NO 19 ERIAL CODE - PSO C. YEAR - 2014 PLIER ID 1 NTY/STATE - 35 TRICT NO 02 E SAMPLED - 07/14/16 E RECEIVED - 07/22/16
LAB NUMBER = 2016	52392 -	20162393	= 20162394
SAMPLE ID		20102000	20102354
	ORMATION ONLY -	INFORMATION ON	LY INFORMATION ONLY
STATION = 397+		400+00	410+00
LOCATION - 40LT	-	40RT	= 52LT
DEPTH IN FEET =	_		
MAT'L COLOR	_		
MAT'L TYPE	_		=
LATITUDE DEG-MIN-SEC = 34	10 18 60 -	34 10 18.10	34 10 17.70
LONGITUDE DEG-MIN-SEC 92	00 59.90	92 01 5.50	92 00 42.20
% PASSING 2 IN	12		¥1
1 1/2 IN	\ -		=
3/4 IN	0.77		51
3/8 IN. =	/ <i>⊊</i>		<u> </u>
NO. 4	N e		ω.
NO. 10	2,55		~
NO. 40 -	157. 1921		5) D
NO. 80	796		=
NO. 200 -			
I TOUTD I IMIT			
LIQUID LIMIT - PLASTICITY INDEX -	\ -		
AASHTO SOIL	1975 19 <u>8</u> 8		=
UNIFIED SOIL	38		=7
	78		5 (
% MOISTURE CONTENT			
,,	2.0C -	11.0	15.0
CEMENT T. BASE (IN)	-	5.0	
-	_		-
-	-		
G G	-		
	=		· ·
:=	-		: <u> </u>
	_		
-	_		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/2 JOB NUMBER - BB02 FEDERAL AID NO TO E PURPOSE - SOIL SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - HW PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - JEFFER SAMPLED BY - D.THORT SAMPLE FROM - TEST H MATERIAL DESC PAVE	203 BE ASSI SURVE EPECIFI TE VY.65B OT APPI EAS RSON, CON HOLE	EY SAMPLE CATION CHECK - WHY.65(F) LICABLE COUNTY			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAM	NO 20 CODE - PSO AR - 2014 ID 1 PATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 TED - 07/22/16
LAB NUMBER	-	20162395	_	20162396	:#::	20162397
SAMPLE ID	16		_			
TEST STATUS	0 To	INFORMATION ONLY	-	INFORMATIO	N ONLY	INFORMATION ONLY
STATION	100	420+00	-	423+00	227	434+00
LOCATION	98	52RT	-	42LT	-	42RT
DEPTH IN FEET	::=:		_		#7.1	
MAT'L COLOR	(E		-		201	
MAT'L TYPE LATITUDE DEG-MIN-S	EG.	24 10 16 60	-	24 10 1	=	24 10 15 60
LONGITUDE DEG-MIN-S				34 10 1	16.90 = 27.60	
		71 00 12130		22 00 2	27.00	JZ 00 Z4.Z0
	IN.		-		2	
1 1/2	IN		_		_	
	IN		_		=	
NO -			~		=	
NO.			-		2	
NO.			_		-	
NO.	80		_		_	
NO. 2	00					
LIQUID LIMIT					_	
PLASTICITY INDEX			_		_	
AASHTO SOIL	-		-		-	
UNIFIED SOIL	-		-		_	
% MOISTURE CONTENT	:57		-		_	
PCCP	(IN) =	20.0		12.0C	-	12.75
	(IN) =		=		520	1.5
	(IN)	***	-	5.0	=	191919
	1=1		-		==:	
	-		-			
	-				-	
	:=:		-		===	
	ee:		*		=	
	100		∴ 77 .		20 2	

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

-

.

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

" " 50	JIL SURVEY / PAVEMENT	SOUNDING TEST REPORT ***
DATE - 08/24/1 JOB NUMBER - BB0203 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - HWY.6 PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS	ASSIGNED URVEY SAMPLE CIFICATION CHECK 65B - WHY.65(F)	SEQUENCE NO. = 21 MATERIAL CODE = PSO SPEC. YEAR = 2014 SUPPLIER ID. = 1 COUNTY/STATE = 35 DISTRICT NO. = 02
LOCATION - JEFFERSON	N, COUNTY	DATE SAMPLED - 07/14/16
SAMPLED BY - D.THORTON		DATE RECEIVED - 07/14/16
SAMPLE FROM - TEST HOLE	E	DATE TESTED - 07/22/16
MATERIAL DESC PAVEMEN	NT SOUNDINGS ONLY	, ,
LAB NUMBER	20162398	20162399 - 20162400
SAMPLE ID	i e,	(* #)
TEST STATUS	INFORMATION ONLY	- INFORMATION ONLY - INFORMATION ONLY
STATION	436+00	455+00 - 464+00
LOCATION	= 52LT	52RT 40LT
DEPTH IN FEET	=	
MAT'L COLOR MAT'L TYPE	.# 'U	
LATITUDE DEG-MIN-SEC	34 10 16.20	34 10 24.50 = 34 10 21.50
LONGITUDE DEG-MIN-SEC	92 00 12.80	91 59 47.00 91 59 39.10
% PASSING 2 IN.		E .
1 1/2 IN.		
3/4 IN.		(m) m (m) m
3/8 IN.		(F) =
NO. 4		<u>=</u> <u>=</u> <u>=</u>
NO. 10 NO. 40		H: 2
NO. 80		(=)
NO. 200		
LIQUID LIMIT		Sec
PLASTICITY INDEX	=	10 14
AASHTO SOIL	2	æ .
UNIFIED SOIL	-	# # # # # # # # # # # # # # # # # # #
% MOISTURE CONTENT	=	·
PCCP (IN)) = 11.0	11 5 11 0 0
ACHM SC (IN)		- 11.5 - 11.0 C - 1.0 - 1.0
CEMENT T. BASE (IN)		6.75
SOIL CEMENT (IN)	(2)	4.5
(21)	· ·	\$\text{\text{\$\frac{1}{2}\$}}\$
		-
		₩ - (#)
	=	± -
	· ·	(#) —

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

5 5 2

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOR SAMPLE FROM - TEST MATERIAL DESC PAN	203 BE ASSI L SURVE SPECIFI TE WY.65B OT APPI SAS RSON, (RTON HOLE	EY SAMPLE CATION CHECK - WHY.65(F) LICABLE COUNTY			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAM DATE REC	NO 22 CODE - PSO AR - 2014 ID 1 PATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 FED - 07/22/16
	/EMENT					
LAB NUMBER	-	20162401		20162402	÷:	20162403
SAMPLE ID TEST STATUS	_	TMEODMARION ONLY	75	TATEODMAGIC	TALL ONLY	THEODMARION ONLY
STATION		INFORMATION ONLY 475+00	2	477+00		490+00
LOCATION		40RT	4	52LT	\$40 t	52LT
DEPTH IN FEET	_	401(1	200	5211	:=:	3201
MAT'L COLOR	_		₹		====	
MAT'L TYPE	_		_		_	
LATITUDE DEG-MIN-	SEC -	34 10 27.40		34 10	29.00 -	34 10 36.20
LONGITUDE DEG-MIN-	SEC -	91 59 27.60		91 59	26.60	91 59 19.40
3/4 3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 - 80 - 200 -					ē
LIQUID LIMIT						
PLASTICITY INDEX	_		-		350	
AASHTO SOIL	=		-		22	
UNIFIED SOIL	~		-		96	
% MOISTURE CONTENT	_		100		*	
DCCD	/ TAT)	11 0		11 0		7.7 0
PCCP ACHM SC	(IN) - (IN) -	11.0	_	11.0 1.0	-	11.0 1.0 C
CEMENT T. BASE	(IN) -	1.0	7	6.0		1.0 C
CHARLET 1. DADE	(TIA)		-	0.0	120	
	-		$\frac{\omega}{\omega}$		200	
	-		=		100	
	_		2			
	-		-		376	
	-		75		1.00	

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

	THE SOUTH OF THE PROPERTY OF T	BOOMDING IDD	I KELOKI	
DATE - 08/24/1 JOB NUMBER - BB0203 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - HWY.6 PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON SAMPLED BY - D.THORTON SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMEN	ASSIGNED URVEY SAMPLE CIFICATION CHECK 55B - WHY.65(F) APPLICABLE U, COUNTY		MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI	NO 23 CODE - PSO AR - 2014 ID 1 TATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 TED - 07/22/16
LAB NUMBER	- 20162404	20162405	-	20162406
SAMPLE ID	-		-	20102400
TEST STATUS	- INFORMATION ONLY	INFORMATION	ON ONLY	INFORMATION ONLY
STATION	- 506+00	510+00		519+00
LOCATION	- 40LT	40RT	= 3	52LT
DEPTH IN FEET	-	(A) (A)	30 30	
MAT'L COLOR	-	18	(a)	
MAT'L TYPE	-	200	=:	
LATITUDE DEG-MIN-SEC		34 10	54.40	34 11 4.90
LONGITUDE DEG-MIN-SEC	- 91 59 8.00	91 59	5.90	91 59 .80
<pre>% PASSING 2 IN.</pre>			2 	
LIQUID LIMIT	_			
PLASTICITY INDEX	#.	:=:	Ę.	
AASHTO SOIL	*	-	=	5
UNIFIED SOIL	æ	·	*	
% MOISTURE CONTENT	3	(#)	*	
PCCP (IN)	- 13.0	10.0		10 0
ACHM SC (IN)		12.0 1.0	-	12.0
CEMENT T. BASE (IN)		1.0	-	1.0 5.0
(111)	*	=:	5 -2	5.0
	***	-	:=:	
	2	(B)	. 	
	#\	=	5	
	3 //	(*)		
	2 7	- 17 -		

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

			,						
DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - H PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - JEFFE SAMPLED BY - D.THOM SAMPLE FROM - TEST MATERIAL DESC PAN	DE ASSIL SURVI SPECIFI ATE HWY.65B HOT APPI HSAS ERSON, (RTON HOLE	EY SAMF ICATION - WHY. LICABLE			DATE REC	CODE - AR - ID TATE - NO PLED - EIVED -	PSO 2014 1 35		
TAD MIMDED						00			
LAB NUMBER	_	20162	407		077	20162408	=	201624	09
SAMPLE ID	-				$(x_i, y_i)_{i \in I}$		75		
TEST STATUS	-	INFOR	MAT]	CON ONLY		INFORMAT]	ON ONLY	(4)	
STATION	-	523+0	0		\sim	524+00	20	531+00	
LOCATION	-	52RT			(+	40RT	(**)	40LT	
DEPTH IN FEET	_) 		353		
MAT'L COLOR	-						3		
MAT'L TYPE	_				2040		:4:		
LATITUDE DEG-MIN-	SEC -	3.4	11	7,90	-	34 11	1 90	3.4	11 19.50
LONGITUDE DEG-MIN-						91 59			58 51.50
LONGITODE DEG-MIN-	DEC -	7 1	20	37.30		21 37	1.20	21	56 51.50
% PASSING 2							=		
1 1/2	IN.				-		÷		
3/4	IN						:		
3/8	IN				**		7		
NO.	4 -				-		~		
NO.	10 -				-		=		
	40						-		
NO.					-				
	200 -						_		
140.	200								
LIQUID LIMIT	1 - 1				de		= :		
PLASTICITY INDEX					(a_{ij},a_{ij})		25		
AASHTO SOIL	5-3				-		2		
UNIFIED SOIL	-				-		-		
% MOISTURE CONTENT	-				-		7		
								1.5	
PCCP	(IN) -	12.			-	11.5	5=3	12.0)
ACHM SC	(IN) -	1.5				1.0	177	1.0	
CEMENT T. BASE	(IN) -	6.0	1		- 200		-	5.0	
	-				-		=		
					•		·		
					100				
	360				-				
					-				
	40								

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08 JOB NUMBER - BI FEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - SO NAME OF PROJECT - PROJECT ENGINEER - PIT/QUARRY - ARKA LOCATION - JEFT SAMPLED BY - D.THO SAMPLE FROM - TEST MATERIAL DESC P.	D BE ASSIDIL SURVED SPECIFICATE HWY.65B NOT APPIANSAS FERSON, CORTON THOLE	Y SAMPLE CATION CHECK - WHY.65(F) LICABLE COUNTY	Z.	2	SPEC. YEA SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC	NO 25 CODE - PSO AR - 2014 ID 1 FATE - 35 NO 02 PLED - 07/14/16 EIVED - 07/14/16 TED - 07/22/16
LAB NUMBER	-	20162410	8.75	20162411	· **	20162412
SAMPLE ID	162					20102112
TEST STATUS	_	TNFORMATION	ONLY	TNFORMATT	ONI ONILY	INFORMATION ONLY
STATION		544+00	°≥;	549+00		559+00
LOCATION		52LT	390	52RT	*	40LT
DEPTH IN FEET			1)(==		570 E	
MAT'L COLOR	14		72		-	
MAT'L TYPE			-		-	
LATITUDE DEG-MIN	I-SEC -	34 11 30.	.70 -	34 11	24 50 -	34 11 37.60
LONGITUDE DEG-MIN	_				46.70	91 58 39.30
				21 30	40.70	21 30 32.30
% PASSING 2			~		2	
·	2 IN. =		-		*	
	4 IN		_		-	
	8 IN		_		21 27	
	4 -		_		90	
	10		~		7	
NO.	40 -		-		=	
	80 -		-			
NO.	200 -					
LIQUID LIMIT					-	
PLASTICITY INDEX	1 - 2				<u></u>	
AASHTO SOIL	-		-		21	
UNIFIED SOIL	-		-		€)	
% MOISTURE CONTEN	т =		-		75	
PCCP	(IN) -	11.5	-	12.25	-	13.5
ACHM SC	(IN) -	1.5	_	1.0	(7E)	0.25
CEMENT T. BASE	(IN) _	5.5	_	/ 41 41 41	-	7至1年1至
	_		_		-	
	_		_		-	
	_		-		_	
	-		-		_	
	-		-		-	
	-		-			

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

JOB NUMBER - BB0203 MATERIAL COFFICE SPEC. YEAR SPEC. YEAR PURPOSE - SOIL SURVEY SAMPLE SUPPLIER I SUPPLIER I SUPPLIER NAME - STATE DISTRICT NOT SUPPLIER NAME - STATE DISTRICT NOT SUPPLIER NAME OF PROJECT - HWY.65B - WHY.65(F) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - JEFFERSON, COUNTY DATE SAMPLED BY - D.THORTON DATE RECEIVED									TATE = 35
MATERIAL DESC PAV		SOUNDIN	IGS	ONLY			DATE	165	IED = 07/22/16
LAB NUMBER		20162			200	2016241	4		20162415
SAMPLE ID	_	20102	113		3.77		-	:27	20102415
TEST STATUS	-	INFOR	MATI	ON ONLY	-	INFORMA	TION ONLY	2	INFORMATION ONLY
STATION	-	565+0	0		\sim	572+00		+	575+00
LOCATION	-	40RT			(#E	52LT		-	52RT
DEPTH IN FEET	-				12			(T)	
MAT'L COLOR	-				-			-	
MAT'L TYPE	-							$x \in \mathcal{C}$	
LATITUDE DEG-MIN-							1 49.20	77.0	34 11 42.50
LONGITUDE DEG-MIN-	SEC -	91	58	37.00		91 5	8 29.00		91 58 33.50
% PASSING 2	IN				-			_	
1 1/2	IN							-	
3/4	IN				100			~	
3/8	IN				_			_	
	4 -				=			_	
	10 -							-	
	40 -				-			-	
NO.					-			-	
NO. 2	200 -								
LIQUID LIMIT	-				-			77. P	
PLASTICITY INDEX	_							-	
AASHTO SOIL	-				**			-	
UNIFIED SOIL	27 -				_			=:	
% MOISTURE CONTENT	-								
PCCP	(IN) -	13.	0			11.0		1	11.5
SOIL CEMENT	(IN) -	1.0			-	1.0		-	
CEMENT T. BASE	(IN) -				-	6.0 C		-	6.0 C
	_				-			-	
	_				-			_	
	-				-			-	
	-							-	
	-				250				
	-				-			-	

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

_

MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - I PROJECT ENGINEER - N PIT/QUARRY - ARKAN	BE ASSI L SURVE SPECIFI ATE HWY.65B JOT APPI	EY SAMP CATION - WHY.			MATER SPEC. SUPPL COUNT	CNCE NO. PLAL CODE YEAR PLER ID. PLY/STATE PLICT NO.	-	PSO 2014 1 35		
LOCATION - JEFFE SAMPLED BY - D.THOM SAMPLE FROM - TEST	RTON HOLE					(4)	DATE	SAMPLED RECEIVED TESTED	=	07/14/16 07/14/16 07/22/16
MATERIAL DESC PA	VEMENT S	SOUNDIN	IGS	ONLY						
LAB NUMBER	-	201624	416		-	20162417		17.1		
SAMPLE ID	_				-			. 576		
TEST STATUS	_			TON ONLY	-	INFORMATI	ON ONL	7		
STATION	-		0		_	595+00				
LOCATION	_	40LT			-	40RT		-50		
DEPTH IN FEET	-				-			2		
MAT'L COLOR	_				_			5 4 5		
MAT'L TYPE	-				-			9-2		
LATITUDE DEG-MIN-	SEC -	34	12	1.00	-	34 11	50.10	97.4		
LONGITUDE DEG-MIN-	SEC -	91	58	15.50		91 58	26.00			
% PASSING 2	IN				122			=:		
								- N		
	IN				150			-		
	IN.							25% 25%		
	IN.				-			=0		
NO.	4				-					
	10 🖛				-			## \		
NO.	40				-			27		
NO.	80				-			90		
NO.	200									
LIQUID LIMIT	-									
PLASTICITY INDEX	-							20		
AASHTO SOIL	200				2			92		
UNIFIED SOIL	-							-		
					160					
% MOISTURE CONTENT	_									
PCCP	(IN) -	11.	5		-	12.0		855		
ACHM SC	(IN) -	1.0			-	1.0		-		
CEMENT T. BASE	(IN) -	5.0			-	1000		=		
	-				-			-		
	124				_			255 202		
	=				_			3 4		
					_			-		
	-				-			-		
	120				-					

REMARKS - C= CRACKED, W= MULTIPLE LAYERS

:= =