ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO.		110653		
FEDERAL AID PRO	DJECT NO	CMAQ-9448(40)		
		ERVICE RD./I-40 EB R . IMPVTS. (WEST MEN		
STATE HIGHWAY	118		4	
IN		CRITTENDEN		_COUNTY

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



ARKANSAS DEPARTMENT OF TRANSPORTATION

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

MATERIALS DIVISION

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

November 1, 2017

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 110653 Hwy. 118/W. Serivice Rd/I-40 EB Ramps Signal Inters. Impvts. (West Memphis) (S) Route 118 Section 4 Crittenden County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of adding a traffic signal at the I-40 East bound ramps and Highway 118 intersection. Samples were obtained in the existing travel lanes. At station 101+00 only pavement data was collected due to utility conflicts.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of highly plastic clay with sand. Cross-sections are not currently available, but it is assumed the construction grade line will closely match that of the existing roadway. The subgrade soils are expected to provide a stable working platform with normal processing if the weather is favorable during construction.

Additional earthwork recommendations will be made upon request when plans are further developed and cross-sections are available.

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

- 1. The Qualified Products List (QPL) indicates that Aggregate Base Course (Class CL-7) is available from commercial producers located at the river port in West Memphis.
- 2. Asphalt Concrete Hot Mix

Туре	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.2	94.8
Binder Course	4.1	95.9
Base Course	3.6	96.4

lichael C. Benson

Materials Engineer

MCB:pt:bjj

Attachment

cc: State Constr. Eng. – Master File Copy District 1 Engineer System Information and Research Div. G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS MATERIALS DIVISION MICHAEL BENSON, MATERIALS ENGINEER *** SOIL SURVEY STRENGTH TEST REPORT *** DATE = 10/12/2017 SEQUENCE NO. - 1 JOB NUMBER = 110653 MATERIAL CODE - SSRV SPEC. YEAR = 2014 SUPPLIER ID. - 1 COUNTY/STATE - 18 DISTRICT NO. - 01 JOB NAME - HWY.118/W.SERV.RD/I40 EB RAMPS (WEST MEMPHIS)(S) * STATION LIMITS R-VALUE AT 240 psi * LESS THAN 5 BEGIN JOB 📼 END JOB

> RESILIENT MODULUS STA. 104 + 70 7313

REMARKS -

AASHTO TESTS : T190

-	106 <i>ME:</i> F		8/W.SERV.RD/I4	10 EB	RAMI						v Transporat Materials Divisio	-	partment
COUNTY	Y NO.	18	DATE TESTEL		9/29/2	2017			М	lichael	Benson, Materia	ls Engin	eer
STA.# L	.OC. 1)EPTH	COLOR	#4	#10	# 40	#80	#200	L.L.	<i>P.I</i> .	SOIL CLASS	LAB #:	%MOISTURE
101+00	24 RT	0-0			54 d	1-1.85		2 0					
104+70	57 LT	0-5	GRAY	76	72	64	57	54	50	35	A-7-6(15)	RV584	
109+00	32 LT	0-5	GRAY	98	92	80	73	68	44	25	A-7-6(15)	S583	29.1

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No.	110653	Material Code	SSRVPS
Date Sampled:	9/14/17	Station No.:	104+70
Date Tested:	September 29, 2017	Location:	57 LT
Name of Project:	HWY. 118/W SERVICE RD/I40 EB RAMPS SIGNAL Code: 18 Name: CRITTENDEN	L INTERS. IMPVIS. (WE	ST MEMPHIS)(S)
County: Sampled By:	THORNTON	Depth:	0-5
Lab No.:	20172872	AASHTO Class:	A-7-6 (15)
Sample ID:	RV584	Material Type (1 or 2)	
LATITUDE:		LONGITUDE:	
<u></u>			
1. Testing Inform			N
	Preconditioning - Permanent Strain > 5% (Y=Yes		N
	Testing - Permanent Strain > 5% (Y=Yes or N=No Number of Load Sequences Completed (0-15)	5)	N 15
	Number of Load Sequences Completed (0-13)		15
2. Specimen Info			
	Specimen Diameter (in):		
	Тор		3.94
	Middle		3.94
	Bottom		3.95
	Average		3.94
	Membrane Thickness (in):		0.01 8.02
	Height of Specimen, Cap and Base (in): Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.02
	Initial Area, Ao (sq. in):		12.14
			97.35
	Initial Volume, AoLo (cu. in):		97.55
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		2980.00
4. Soil Propertie	s:		
	Optimum Moisture Content (%):		19.3
	Maximum Dry Density (pcf):		101
	95% of MDD (pcf):		96.0
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
-	Wet Weight (g):		2980.00
	Compaction Moisture content (%):		19.4
	Compaction Wet Density (pcf):		116.63
	Compaction Dry Density (pcf):		97.68
	Moisture Content After Mr Test (%):		19.6
6. Quick Shear T	est (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	11313(5	Sc)^-0.24124(S3)^0.13327
		,	
8. Comments			
9. Tested By:	_GW Date	: September 29, 2017	it

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No.	110653			Material Code	SSRVPS
Date Sampled:	9/14/17			Station No.:	104+70
Date Tested:	September 29, 2017			Location:	57 LT
Name of Project:	HWY. 118/W SERVICI	E RD/140 E	B RAMPS SIGNAL II	HWY. 118/W SERVICE RD/140 EB RAMPS SIGNAL INTERS. IMPVTS. (WEST MEMPHIS)(S)	T MEMPHIS)(S)
County:	Code: 18	Name:	CRITTENDEN		
Sampled By:	THORNTON			Depth:	0-5
Lab No.:	20172872			AASHTO Class:	A-7-6 (15)
Sample ID:	RV584			Material Type (1 or 2): 2	r 2): 2
LATITUDE:				LONGITUDE:	

2) ĝ	in E	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Actual Applied	Average Recov Def.	Resilient Strain	Resilient Modulus
Axial Max. Axial Stress Load		Иах. <i>Р</i> Loai	d d	Cyclic Load	Contact Load	Max. Axial	Cyclic Stress	Contact Stress	LVDI 1 and 2		
						Stress					
S _{cyclic} P _{max}		а Ц		P _{cyclic}	Pcontact	S _{max}	S _{cyclic}	Scontact	H _{avg}	ώ	Mr
psi lbs	_	sql		sdl	sql	psi	psi	psi	ŗ	in/in	psi
2.0 25.2		25.2		22.3	2.8	2.1	1.8	0.2	0.00119	0.00015	12,356
4.0 47.1		47.1		44.3	2.8	3.9	3.7	0.2	0.00257	0.00032	11,375
6.0 69.2		69.2		65.6	3.6	5.7	5.4	0.3	0.00427	0.00053	10,163
8.0 91.9		91.9		85.8	6.0	7.6	7.1	0.5	0.00649	0.00081	8,735
10.0 113.0		113.0		104.6	8.5	9.3	8.6	0.7	0.00902	0.00112	7,662
2.0 25.1		25.1		22.3	2.8	2.1	1.8	0.2	0.00129	0.00016	11,412
4.0 46.9		46.9		44.1	2.8	3.9	3.6	0.2	0.00281	0.00035	10,361
6.0 68.1		68.1		65.3	2.8	5.6	5.4	0.2	0.00457	0.00057	9,440
8.0 90.7	_	90.7		85.6	5.2	7.5	7.0	0.4	0.00664	0.00083	8,519
10.0 112.5		112.5		105.0	7.5	9.3	8.7	0.6	0.00907	0.00113	7,651
2.0 25.0	_	25.0		22.2	2.8	2.1	1.8	0.2	0.00150	0.00019	9,784
4.0 46.8		46.8		44.0	2.8	3.9	3.6	0.2	0.00313	0.00039	9,297
6.0 67.9		67.9		65.1	2.8	5.6	5.4	0.2	0.00495	0.00062	8,688
8.0 89.7		89.7		85.5	4.2	7.4	7.0	0.3	0.00707	0.00088	7,987
10.0 111.6	_	111.6	6	104.9	6.7	9.2	8.6	0.5	0.00948	0.00118	7,313

DATE September 29, 2017 DATE DATE

TESTED BY REVIEWED BY

GW

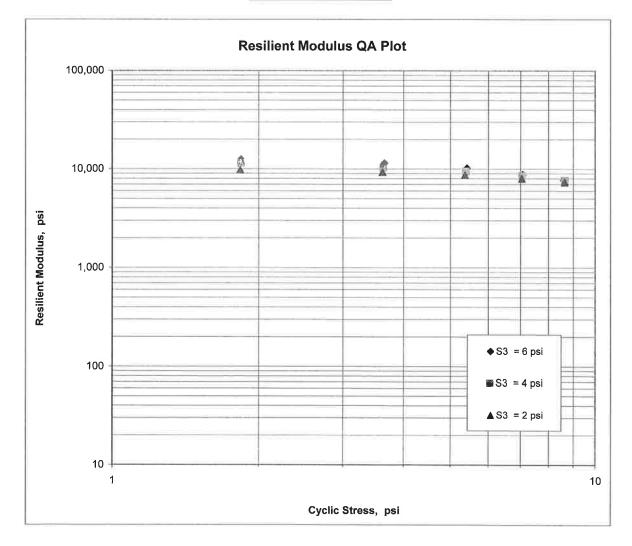
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No.	110653		Material Code SSRVPS
Date Sampled:	9/14/17		Station No.: 104+70
Date Tested:	September 29, 2017		Location: 57 LT
Name of Project:	HWY. 118/W SERVI	ICE RD/I	40 EB RAMPS SIGNAL INTERS. IMPVTS. (WEST MEN
County:	Code: 18	Name:	CRITTENDEN
Sampled By:	THORNTON		Depth: 0-5
Lab No.:	20172872		AASHTO Class: A-7-6 (15)
Sample ID:	RV584		Material Type (1 or 2): 2
LATITUDE:			LONGITUDE:

 $M_{R} = K1 (S_{C})^{K2} (S_{3})^{K5}$

K1 =	11,313
K2 =	-0.24124
K5 =	0.13327
$R^2 =$	0.88



OC. PAIE/NEWT SOLINDINGS Mail Contract Activation Activation Contract Activation Activation Activation Activation	AE: NO.	JOB NAME: HWY.118/W.SERV COUNTY NO. 18	JOB NAME: HWY.118/W.SERV.RD/140 EB RAMPS (WEST MEMPHIS)(S) COUNTY NO. 18	EST MEMPHIS)(S)	Materials Division Michael Benson, Materials Engineer	9/29/2017
RT ACHNEC ACHNEC ACHNEC AGE BASE CRS CL? JUN 1.5M JUN 2.0M ACHNEC AGE BASE CRS CL? ACHNEC ACHNEC AGE BASE CRS CL? ACHNEC ACHNEC AGE BASE CRS CL? ACHNEC ACHNEC AGE BASE CRS CL? ACHNER ACHNEC AGE BASE CRS CL? ACHNER ACHNEC AGE BASE CRS CL? ACHNER ACHNER ACHNER	STA.# LOC.				PAVEMENT SOUNDINGS	
LT ACHINIC ACHINIC ACHINIC AGG BASE CAS CL-7 2.5W 2.0X 1.0W 4.0 AGG BASE CAS CL-7	24 RT		ACHMSC	ACHMBC 12.5W	AGG. BASE CRS CL-7	
W=MULTIPLE LAYERS, X=STRIPPED Monday, October 30, 2017	32 LT		2.0X	14.0W	40. BAE CRS CL-7 4.0	
W=MULTIPLE LAYERS, X=STRIPPED Monday, October 30, 2017						
	comments: W	V=MULTIPLE LAYE	ERS, X=STRIPPED			1.40

**** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT *** DATE - 10/19/17 SEQUENCE NO 1 DJGB NUMBER - 10653 SEQUENCE NO 1 SPECREAL AID NO TO BE ASIGNED SPEC. YEAR - 2014 PURDERAL AID NO TO BE ASIGNED SPEC. YEAR - 2014 SUPPLIER NAMES - NO SPECIFICATION CHECK COUNTY/STATE - 18 SUPPLIER NAME - STATE DISTRICT NO 0 NAME OF PROJECT - HWY.118/W.SERV.RD/140 EE RAMES (WEST MEMPHIES)(S) - 09/14/17 FROMECT BE NOT APPLICABLE DISTRICT NO 0 FUT/QUARY - ARXANSAS DATE SAMPLED - 09/14/17 SAMPLE FROM - TEST HOLE DATE SAMPLED - 09/14/17 SAMPLE IN - TEST HOLE DATE TESTED - 09/12/17 SAMPLE IN - TEST HOLE - 20172871 - 05/29/17 RAMENDER - 021/2870 - 20172871 - 05/29/17 RAMUER IN - 101+00 - 109400 - 05/29/17 SAMPLE IN - 101+00 - 019/401 - 11/2 STATION - 101/200 - 00/201 LAN INDERK - 00/20172871 - 00/20172871 SAMPLE IN FEET - 00/20172871 - 00/20172871 LAN INDERK - 100/200 - 00/20172871 LAN INDERK <th>ARKANSAS STATE</th> <th>E HIGHWAY AND TRANSPORTAT MATERIALS MICHAEL BENSON, MATER</th> <th>DIVISION</th> <th></th>	ARKANSAS STATE	E HIGHWAY AND TRANSPORTAT MATERIALS MICHAEL BENSON, MATER	DIVISION	
JOB NUMBER - 11053 MATERIAL CODE - SSRVPS PEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER N 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 18 SUPPLIER NAME - STATE DISTRICT NO 01 NAME OF PROJECT - HWY.118/W.SERV.RD/140 EB RAMPS (WEST MEMPHIS) (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARY - ARKANSAS DATE SAMPLE 09/14/17 SAMPLE DY - THORNTOM/ DATE SAMPLE 09/15/17 MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS LAB NUMBER - 20172871 - SAMPLE ID - 20172871 - - SAMPLE ID - 20172871 - - SAMPLE ID - 101400 109400 - - SAMPLE PARTIN - - - - - - SAMPLE DEG-MIN-SEC - 35 9 26.40 35 09 34.30 - - - - - - - - - - - - - - - - </td <td>* :</td> <td></td> <td></td> <td></td>	* :			
LOCATION - CRITTENDEN, COUNTY DATE SAMPLED - 09/14/17 SAMPLED EY - THORNTON/ DATE RECEIVED - 09/15/17 SAMPLED EX - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 09/29/17 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS - 09/29/17 LAB NUMEER - 20172870 - 20172871 - SAMPLE ID - - 8583 - TEST STATUS - 1001400 - 109/00 - STATION - 24 RT - 32 LT - DEPTH IN FEET - 0-0 - 0-5 - MAT'L COLOR - - - MAT'L TYPE - - - LATITUDE DEG-MIN-SEC 35 9 26.40 - 35 09 34.30 LONGITUDE DEG-MIN-SEC 90 13<27.30	JOB NUMBER - 11 FEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - ST NAME OF PROJECT - 1 PROJECT ENGINEER - 1	0653 BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE HWY.118/W.SERV.RD/I40 EB NOT APPLICABLE		MATERIAL CODE - SSRVPS SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 18 DISTRICT NO 01
SAMPLE ID - - S583 - TEST STATUS - INFORMATION ONLY - INFORMATION ONLY - STATION - 101+00 - 109+00 - LOCATION - 24 RT - - - DEPTH IN FEET - 0-0 - - - MAT'L COLOR - - - - - MAT'L COLOR - - - - - MAT'L TYPE - - - - - LATITUDE DEG-MIN-SEC 90 13 27.30 90 13 28.30 % PASSING 2 IN. - <td< td=""><td>LOCATION - CRIT SAMPLED BY - THORN SAMPLE FROM - TEST</td><td>TENDEN, COUNTY ITON/ HOLE</td><td>/EMENT SOUNDIN</td><td>DATE RECEIVED - 09/15/17 DATE TESTED - 09/29/17</td></td<>	LOCATION - CRIT SAMPLED BY - THORN SAMPLE FROM - TEST	TENDEN, COUNTY ITON/ HOLE	/EMENT SOUNDIN	DATE RECEIVED - 09/15/17 DATE TESTED - 09/29/17
TEST STATUS - INFORMATION ONLY - INFORMATION ONLY STATION - 101+00 - 109+00 - LOCATION - 24 RT - 32 LT - DEPTH IN FEET - 0-0 0-5 - - MAT'L COLOR - - - - - MAT'L TYPE - - - - - LATITUDE DEG-MIN-SEC - 35 09 34.30 - - JOGITUDE DEG-MIN-SEC 90 13 27.30 90 13 28.30 - - % PASSING 2 IN - - - - 3/4 IN. - - - - - - NO. 40 - - 98 - - - - NO. 40 -	LAB NUMBER	- 20172870	- 20172871	-
STATION - 101+00 - 109+00 - LOCATION - 24 RT 32 LT - DEPTH IN FEET - 0-0 0-5 - MAT'L COLOR - - - - MAT'L TYPE - - - - LATITUDE DEG-MIN-SEC - 35 9 26.40 - 35 09 34.30 - LATITUDE DEG-MIN-SEC - 90 13 27.30 90 13 28.30 - % PASSING 2 IN. - - - - - - 1/2 IN. - - - - - - - 3/4 IN. - - 100 - - - - NO. 4 - - 98 - - 68 - - - - - - - - - - - - - - - - - - -		-		2
LOCATION - 24 RT - 32 LT - DEPTH IN FEET - 0-0 -5 - MAT'L COLOR				ON ONLY -
DEPTH IN FEET - 0-0 MAT'L COLOR - MAT'L TYPE - LATITUDE DEG-MIN-SEC - 35 9 26.40 - 35 09 34.30 LONGITUDE DEG-MIN-SEC - 90 13 27.30 90 13 28.30 % PASSING 2 IN 1 1/2 IN 3/4 IN 3/4 IN 3/8 IN NO. 4 - NO. 4 - NO. 40 - NO. 40 - NO. 40 - NO. 80 - NO. 200 - 68 LIQUID LIMIT - 444 - PLASTICITY INDEX - AASHTO SOIL - % MOISTURE CONTENT - % MOISTURE CONTENT - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) 2.0X - ACHMEC (IN) - 12.5W - 14.0W				2
MAT'L COLOR - GRAY MAT'L TYPE - 35 9 26.40 35 09 34.30 LATITUDE DEG-MIN-SEC 90 13 27.30 90 13 28.30 % PASSING 2 IN. - 1 1/2 IN. - - 3/4 IN. - - 3/8 IN. - - NO. 4 - - NO. 10 - - NO. 40 - - NO. 40 - - NO. 200 - 68 LIQUID LIMIT - - PLASTICITY INDEX - - AASHTO SOIL - - % MOISTURE CONTENT - - ACHMSC (IN) - - ACHMSC (IN) - - ACHMSC (IN) - - ACHMSC (IN) - -			-	2 2
MAT'L TYPE -		_	0.00	-
LONGITUDE DEG-MIN-SEC - 90 13 27.30 90 13 28.30 * PASSING 2 IN		-		5 9
1 1/2 IN - - - 3/4 IN - - - 3/8 IN - 100 - NO. 4 - - 98 - NO. 10 - - 92 - NO. 40 - 80 - - NO. 200 - 68 - - LIQUID LIMIT - - 44 - PLASTICITY INDEX - - 25 - AASHTO SOIL - - 29.1 - * MOISTURE CONTENT - 29.1 - - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - 2.0X - - ACHMSC (IN) - 12.5W - 14.0W -				
3/4 IN -	% PASSING 2	IN	_	-
3/8 IN - 100 - NO. 4 - 98 - NO. 10 - 92 - NO. 40 - 80 - NO. 80 - - 73 - NO. 200 - 68 - - LIQUID LIMIT - - 44 - PLASTICITY INDEX - - 25 - AASHTO SOIL - - A-7-6(15) - WOISTURE CONTENT - - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -	1 1/2	2 IN	-	15
NO. 4 - 98 - NO. 10 - 92 - NO. 40 - 80 - NO. 80 - 73 - NO. 200 - 68 - LIQUID LIMIT - - 44 - PLASTICITY INDEX - - 25 - AASHTO SOIL - - A-7-6(15) - UNIFIED SOIL - - 29.1 - & MOISTURE CONTENT - - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -	3/4	4 IN	-	
NO. 10 - 92 - NO. 40 - 80 - NO. 80 - 73 - NO. 200 - 68 - LIQUID LIMIT - - 44 - PLASTICITY INDEX - - 25 - AASHTO SOIL - - A-7-6(15) - UNIFIED SOIL - - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -	3/8	8 IN	_ 100	
NO. 40 - 80 NO. 80 - 73 NO. 200 - 68 LIQUID LIMIT - - 44 PLASTICITY INDEX - - 25 AASHTO SOIL - - A-7-6(15) UNIFIED SOIL - - 29.1 * MOISTURE CONTENT - - 29.1 ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - 12.5W - 14.0W -			-	
NO. 80 - 73 - NO. 200 - 68 - LIQUID LIMIT - - 44 - PLASTICITY INDEX - - 25 - AASHTO SOIL - - A-7-6(15) - UNIFIED SOIL - - 29.1 - & MOISTURE CONTENT - - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -			-	-
NO. 200 68 LIQUID LIMIT - 44 - PLASTICITY INDEX - 25 - AASHTO SOIL - - A-7-6(15) - UNIFIED SOIL - - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - 12.5W - 14.0W -				8 2
PLASTICITY INDEX25-AASHTO SOILA-7-6(15)-UNIFIED SOIL29.1* MOISTURE CONTENT29.1-ACHMSC(IN) -3.0W-2.5W-ACHMSC(IN)2.0X-ACHMBC(IN) -12.5W-14.0W-				-
AASHTO SOIL - - A-7-6(15) - UNIFIED SOIL - - 29.1 - % MOISTURE CONTENT - 29.1 - - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -	LIQUID LIMIT	-	- 44	<u> </u>
UNIFIED SOIL - 29.1 * MOISTURE CONTENT - 29.1 ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) 2.0X - ACHMBC (IN) - 12.5W - 14.0W -		-		<u></u>
% MOISTURE CONTENT - 29.1 - ACHMSC (IN) - 3.0W - 2.5W - ACHMSC (IN) - - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -		-	- A-7-6(15) -
ACHMSC(IN) -3.0W-2.5W-ACHMSC(IN)2.0X-ACHMBC(IN) -12.5W-14.0W-		-	- 20.1	
ACHMSC (IN) - - 2.0X - ACHMBC (IN) - 12.5W - 14.0W -			29.1	
ACHMBC (IN) 12.5W 14.0W -				-
				-
			_	-
		/ 114/	- +.0	-
		-	-	-
		_	-	-
		-	-	-
		-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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ARKANSAS STATE HIG	HWAY AND TRANSPORTATION DEPARTM MATERIALS DIVISION	ENT - LITTLE ROCK, ARKANSAS
	MICHAEL BENSON, MATERIALS ENGIN OIL SURVEY / PAVEMENT SOUNDING ?	
PROJECT ENGINEER - NOT Z PIT/QUARRY - ARKANSAS	ASSIGNED URVEY SAMPLE CIFICATION CHECK 118/W.SERV.RD/I40 EB RAMPS (WES' APPLICABLE	
LOCATION - CRITTEND SAMPLED BY - THORNTON/ SAMPLE FROM - TEST HOL		DATE SAMPLED - 09/14/17 DATE RECEIVED - 09/15/17 DATE TESTED - 09/29/17
MATERIAL DESC SOIL S	URVEY - RESISTANCE R-VALUE ACT	UAL RESULTS
LAB NUMBER	- 20172872 -	-
SAMPLE ID	- RV584 -	*
TEST STATUS	- INFORMATION ONLY -	
STATION	- 104+70 -	
LOCATION DEPTH IN FEET	- 57 LT - - 0-5 -	-
MAT'L COLOR	- GRAY	375
MAT'L TYPE	-	95
LATITUDE DEG-MIN-SEC LONGITUDE DEG-MIN-SEC		
% PASSING 2 IN	· -	-
1 1/2 IN	100	-
3/4 IN	. ~ 93	-
3/8 IN		-
NO. 4	- 76 _	-
NO. 10	- 72	-
NO. 40		-
NO. 80 NO. 200		-
LIQUID LIMIT	- 50 -	-
PLASTICITY INDEX	- 35	
AASHTO SOIL	- A-7-6(15) -	
UNIFIED SOIL % MOISTURE CONTENT		-
		Ξ.
		-
		<u>~</u>
		-
		-
		-
		-
REMARKS - W=MULTIPLE L	AYERS, X=STRIPPED	
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