

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 061508

FEDERAL AID PROJECT NO. STPF-9035(21)

I-30 – ALCOA RD. (BENTON) (S)

STATE HIGHWAY 5 SECTION 8

IN SALINE 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
October 17, 2017

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 061508
I-30 – Alcoa Rd. (Benton) (S)
Route 5 Section 8
Saline County

Transmitted herewith is the requested Soil Survey, strength data and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 1.2 miles of Highway 5 in Benton. Samples were obtained in the existing travel lanes and ditch line. There were no paved shoulders within the project limits. Samples were not obtained at Station 57+00 18 feet left or 89+00 18 feet right of centerline due to utility conflicts.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of low to moderately plastic sandy clay. 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.

Catchment basins are located between stations 63+50 to 66+00 approximately 60 feet right of centerline and 70+75 approximately 80 feet left of centerline. If the construction limits encroach into these wet areas, the water must be drained and all soft unstable organic material should be undercut prior to embankment construction. The undercut is anticipated to be no more than two feet. The undercut may be backfilled with locally available unspecified material.

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 in the vicinity Bryant.
2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.5	94.5
Binder Course	4.5	95.5
Base Course	4.0	96.0



Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
District 6 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 - 09/29/2017
JOB NUMBER - 061508

SEQUENCE NO. - 1
MATERIAL CODE - SSRV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 62
DISTRICT NO. - 06

JOB NAME - I30 - ALCOA RD. (BENTON) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 17

RESILIENT MODULUS
STA. 65 + 00 8960

REMARKS -

AASHTO TESTS : T190

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

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

Job No.	061508	Material Code	SSRVPS
Date Sampled:	9/11/2017	Station No.:	65+00
Date Tested:	September 26, 2017	Location:	33'RT
Name of Project:	I30-Alcoa RD.(Benton) (S)		
County:	Code: 62	Name:	SALINE
Sampled By:	Thornton/Bates/Jordan		
Lab No.:	20172861	Depth:	0-5
Sample ID:	RV577	AASHTO Class:	A-2-4(0)
LATITUDE:		Material Type (1 or 2):	2
		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	3.94
Middle	3.94
Bottom	3.95
Average	3.94
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):	12.14
Initial Volume, AoLo (cu. in):	97.11

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3410.00
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4. Soil Properties:

Optimum Moisture Content (%):	11.9
Maximum Dry Density (pcf):	120
95% of MDD (pcf):	114.0
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3410.00
Compaction Moisture content (%):	11.3
Compaction Wet Density (pcf):	133.80
Compaction Dry Density (pcf):	120.21
Moisture Content After Mr Test (%):	11.6

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

7. Resilient Modulus, Mr: 11300(Sc)^{-0.18985}(S3)^{0.21352}

8. Comments _____

9. Tested By: B.H **Date:** September 26, 2017

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

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

Job No. 061508 **Material Code** SSRVPS
Date Sampled: 9/11/2017 **Station No.:** 65+00
Date Tested: September 26, 2017 **Location:** 33'RT
Name of Project: I30-Alcoa RD.(Benton) (S)
County: Code: 62 **Name:** SALINE
Sampled By: Thornton/Bates/Jordan **Depth:** 0-5
Lab No.: 20172861 **AASHTO Class:** A-2-4(0)
Sample ID: RV577 **Material Type (1 or 2):** 2
LATITUDE: **LONGITUDE:**

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load		Actual Applied Max. Axial Stress	Actual Applied Contact Load	Actual Applied Cyclic Load	Actual Applied Contact Stress	Actual Applied Cyclic Stress	Actual Applied Contact Stress	Average Recov Def. LVD1 and 2	Resilient Strain	Resilient Modulus
			P _{max}	S _{cyclic}									
DESIGNATION	S ₃	psi	lbs	psi	psi	lbs	psi	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	24.9	22.3	2.0	2.6	1.8	0.2	1.8	0.2	0.0093	0.00012	15,782
Sequence 2	6.0	4.0	47.0	44.5	3.9	2.6	3.7	0.2	3.7	0.2	0.0194	0.00024	15,091
Sequence 3	6.0	6.0	69.5	66.3	5.7	3.3	5.5	0.3	5.5	0.3	0.0300	0.00037	14,563
Sequence 4	6.0	8.0	93.3	87.6	7.7	5.7	7.2	0.5	7.2	0.5	0.0416	0.00052	13,874
Sequence 5	6.0	10.0	117.5	109.3	9.7	8.2	9.0	0.7	9.0	0.7	0.0531	0.00066	13,564
Sequence 6	4.0	2.0	24.7	22.3	2.0	2.4	1.8	0.2	1.8	0.2	0.0113	0.00014	13,054
Sequence 7	4.0	4.0	46.4	43.8	3.8	2.5	3.6	0.2	3.6	0.2	0.0235	0.00029	12,306
Sequence 8	4.0	6.0	67.7	65.0	5.6	2.7	5.4	0.2	5.4	0.2	0.0370	0.00046	11,562
Sequence 9	4.0	8.0	91.3	86.3	7.5	5.1	7.1	0.4	7.1	0.4	0.0488	0.00061	11,653
Sequence 10	4.0	10.0	114.7	107.2	9.5	7.5	8.8	0.6	8.8	0.6	0.0615	0.00077	11,495
Sequence 11	2.0	2.0	24.3	21.5	2.0	2.8	1.8	0.2	1.8	0.2	0.0140	0.00018	10,093
Sequence 12	2.0	4.0	44.9	42.1	3.7	2.8	3.5	0.2	3.5	0.2	0.0299	0.00037	9,264
Sequence 13	2.0	6.0	65.5	62.6	5.4	2.9	5.2	0.2	5.2	0.2	0.0461	0.00058	8,960
Sequence 14	2.0	8.0	88.1	83.8	7.3	4.3	6.9	0.4	6.9	0.4	0.0610	0.00076	9,053
Sequence 15	2.0	10.0	111.0	104.3	9.1	6.7	8.6	0.6	8.6	0.6	0.0754	0.00094	9,119

TESTED BY B.H DATE September 26, 2017
 REVIEWED BY _____ DATE _____

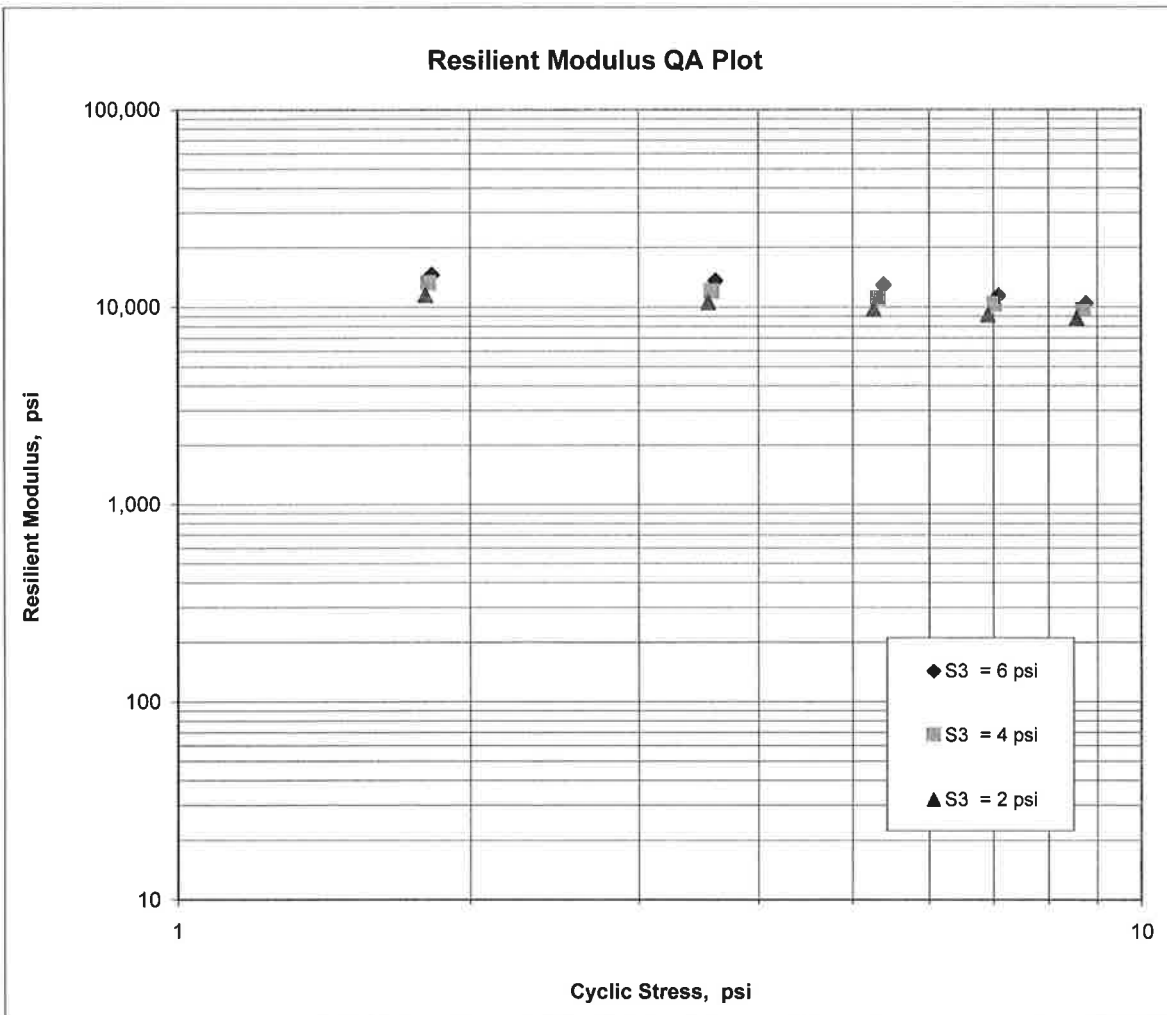
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	061508	Material Code	SSRVPS
Date Sampled:	9/11/2017	Station No.:	65+00
Date Tested:	September 26, 2017	Location:	33'RT
Name of Project:	I30-Alcoa RD.(Benton) (S)		
County:	Code: 62	Name:	SALINE
Sampled By:	Thornton/Bates/Jordan		Depth: 0-5
Lab No.:	20172861	AASHTO Class:	A-2-4(0)
Sample ID:	RV577	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

$K_1 = \underline{\underline{11,300}}$
 $K_2 = \underline{\underline{-0.18985}}$
 $K_5 = \underline{\underline{0.21352}}$
 $R^2 = \underline{\underline{0.96}}$



JOB: 061508

Arkansas State Highway Transportation Department

JOB NAME: I30 - ALCOA RD.(BENTON)(S)

Materials Division

COUNTY NO. 62 DATE TESTED 9/28/2017

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#					L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				#4	#10	#40	#80	#200					
				S	I	E	V	E	S				
65+00	33 RT	0-5	RD/BR	82	69	58	48	24	ND	NP	A-2-4(0)	RV577	
33+00	06 RT	0-5	RED	93	85	77	69	47	35	17	A-6(4)	S565	18.8
33+00	18 RT	0-5	RED	98	88	77	70	46	ND	NP	A-4(0)	S566	17
44+00	18 LT	0-5	RD/BR	93	87	81	72	42	ND	NP	A-4(0)	S567	17.7
44+00	60 LT	0-5	RED	94	89	82	76	51	38	18	A-6(6)	S568	14.4
49+00	06 RT	0-5	RD/BR	84	79	70	61	39	35	22	A-6(4)	S569	18.9
49+00	18 RT	0-5	BROWN	73	68	56	48	33	25	9	A-2-4(0)	S570	14
57+00	06 LT	0-5	RD/BR	99	99	99	98	21	ND	NP	A-2-4(0)	S571	15.3
65+00	06 RT	0-5	RED	95	92	89	74	33	29	14	A-2-6(0)	S572	17.6
65+00	33 RT	0-5	RED	91	82	72	64	25	ND	NP	A-2-4(0)	S573	22.9
73+00	06 LT	0-5	RD/BR	97	87	73	65	52	30	15	A-6(4)	S574	18.8
81+00	06 RT	0-5	BROWN	96	92	83	72	56	ND	NP	A-4(0)	S575	15.7
89+00	06 LT	0-5	RD/BR	84	73	63	55	41	20	7	A-4(0)	S576	12.7

comments: W=MULTIPLE LAYERS,X=STRIPPED

Tuesday, October 03, 2017

JOB: 061508
JOB NAME: 130 - ALCOA RD.(BENTON)(S)

Arkansas State Highway Transportation Department
 Materials Division
 Michael Benson, Materials Engineer

DATE TESTED
 9/28/2017

COUNTY NO. 62

STA.# LOC.

PAVEMENT SOUNDINGS

33+00	06 RT	ACHMSC	PCCP	6.0	AGG.BASE CRS CL-5
		6.75W			3.0
33+00	18 RT	ACHMSC	PCCP		AGG.BASE CRS CL-5
					6.0
44+00	18 LT	ACHMSC	PCCP	6.0	AGG.BASE CRS CL-5
		5.25W			
44+00	60 LT	ACHMSC	PCCP		AGG.BASE CRS CL-5
					5.5
49+00	06 RT	ACHMSC	PCCP	5.5	
		5.25W			
49+00	18 RT	ACHMSC	PCCP		
57+00	06 LT	ACHMSC	PCCP	6.5	
		2.0X			
65+00	06 RT	ACHMSC	PCCP	6.75	
		5.5W			
65+00	33 RT	ACHMSC	PCCP		
73+00	06 LT	ACHMSC	PCCP	6.0	
		6.0W			
81+00	06 RT	ACHMSC	PCCP	6.0	
		5.0W			
89+00	06 LT	ACHMSC	PCCP	5.5	
		6.75W			

Comments: W=MULTIPLE LAYERS,X=STRIPPED

Tuesday, October 03, 2017

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 09/28/17	SEQUENCE NO.	- 1
JOB NUMBER	- 061508	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 62
SUPPLIER NAME	- STATE	DISTRICT NO.	- 06
NAME OF PROJECT	- I30 - ALCOA RD. (BENTON) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- SALINE, COUNTY	DATE SAMPLED	- 09/11/17
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 09/14/17
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/28/17
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20172849	- 20172850	- 20172851
SAMPLE ID	- S565	- S566	- S567
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 33+00	- 33+00	- 44+00
LOCATION	- 06 RT	- 18 RT	- 18 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RED	- RED	- RD/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 36 5.70	- 34 36 5.70	- 34 36 11.20
LONGITUDE DEG-MIN-SEC	- 92 32 58.60	- 92 32 58.60	- 92 32 51.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 93	- 98	- 93
	NO. 10 - 85	- 88	- 87
	NO. 40 - 77	- 77	- 81
	NO. 80 - 69	- 70	- 72
	NO. 200 - 47	- 46	- 42
LIQUID LIMIT	- 35	- ND	- ND
PLASTICITY INDEX	- 17	- NP	- NP
AASHTO SOIL	- A-6(4)	- A-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.8	- 17.0	- 17.7
ACHMSC (IN)	- 6.75W	- ---	- 5.25W
PCCP (IN)	- 6.0	- ---	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 09/28/17	SEQUENCE NO.	- 2
JOB NUMBER	- 061508	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 62
SUPPLIER NAME	- STATE	DISTRICT NO.	- 06
NAME OF PROJECT	- I30 - ALCOA RD. (BENTON) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- SALINE, COUNTY	DATE SAMPLED	- 09/11/17
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 09/14/17
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/28/17
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20172852	-	20172853	-	20172854
SAMPLE ID	-	S568	-	S569	-	S570
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	44+00	-	49+00	-	49+00
LOCATION	-	60 LT	-	06 RT	-	18 RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	RED	-	RD/BR	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	34 36 11.10	-	34 36 15.80	-	34 36 15.80
LONGITUDE DEG-MIN-SEC	-	92 32 51.70	-	92 32 43.90	-	92 32 43.90
% PASSING	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	100
	3/8	IN.	-	90	-	90
	NO. 4		-	84	-	73
	NO. 10		-	79	-	68
	NO. 40		-	70	-	56
	NO. 80		-	61	-	48
	NO. 200		-	39	-	33
LIQUID LIMIT	-	38	-	35	-	25
PLASTICITY INDEX	-	18	-	22	-	9
AASHTO SOIL	-	A-6 (6)	-	A-6 (4)	-	A-2-4 (0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	14.4	-	18.9	-	14.0
ACHMSC	(IN)	---	-	5.25W	-	---
ACHMSC	(IN)	---	-	---	-	---
PCCP	(IN)	---	-	5.5	-	---
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 09/28/17	SEQUENCE NO.	- 3
JOB NUMBER	- 061508	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 62
SUPPLIER NAME	- STATE	DISTRICT NO.	- 06
NAME OF PROJECT	- I30 - ALCOA RD. (BENTON) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- SALINE, COUNTY	DATE SAMPLED	- 09/11/17
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 09/14/17
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/28/17
MATERIAL DESC.	- SOIL SURVEY - R. VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20172855	- 20172856	- 20172857
SAMPLE ID	- S571	- S572	- S573
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 57+00	- 65+00	- 65+00
LOCATION	- 06 LT	- 06 RT	- 33 RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- RD/BR	- RED	- RED
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 34 36 20.30	- 34 36 25.60	- 34 36 25.50
LONGITUDE DEG-MIN-SEC	- 92 32 35.90	- 92 32 28.80	- 92 32 28.70
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	100	100
3/8 IN.	100	98	96
NO. 4	99	95	91
NO. 10	99	92	82
NO. 40	99	89	72
NO. 80	98	74	64
NO. 200	21	33	25
LIQUID LIMIT	- ND	- 29	- ND
PLASTICITY INDEX	- NP	- 14	- NP
AASHTO SOIL	- A-2-4 (0)	- A-2-6 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.3	- 17.6	- 22.9
ACHMSC (IN)	- 2.0X	- 5.5W	- ---
ACHMSC (IN)	- 4.0W	- 6.75	- ---
PCCP (IN)	- 6.5	- ---	- ---

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 09/28/17 SEQUENCE NO. - 4
JOB NUMBER - 061508 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 62
SUPPLIER NAME - STATE DISTRICT NO. - 06
NAME OF PROJECT - I30 - ALCOA RD. (BENTON) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - SALINE, COUNTY DATE SAMPLED - 09/11/17
SAMPLED BY - THORNTON/BATES DATE RECEIVED - 09/14/17
SAMPLE FROM - TEST HOLE DATE TESTED - 09/28/17
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20172858	20172859	20172860
SAMPLE ID	S574	S575	S576
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	73+00	81+00	89+00
LOCATION	06 LT	06 RT	06 LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	RD/BR	BROWN	RD/BR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	34 36 30.80	34 36 35.30	34 36 39.60
LONGITUDE DEG-MIN-SEC	92 32 21.70	92 32 13.60	92 32 5.60
% PASSING			
2 IN.			
1 1/2 IN.			
3/4 IN.		100	100
3/8 IN.	100	98	95
NO. 4	97	96	84
NO. 10	87	92	73
NO. 40	73	83	63
NO. 80	65	72	55
NO. 200	52	56	41
LIQUID LIMIT	30	ND	20
PLASTICITY INDEX	15	NP	7
AASHTO SOIL	A-6(4)	A-4(0)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	18.8	15.7	12.7
ACHMSC (IN)	6.0W	5.0W	6.75W
PCCP (IN)	6.0	6.0	5.5
AGG.BASE CRS CL-5 (IN)	3.0	---	---

REMARKS - W=MULTIPLE LAYERS,X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 09/28/17	SEQUENCE NO.	- 1
JOB NUMBER	- 061508	MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 62
SUPPLIER NAME	- STATE	DISTRICT NO.	- 06
NAME OF PROJECT	- I30 - ALCOA RD. (BENTON) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- SALINE, COUNTY	DATE SAMPLED	- 09/11/17
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 09/14/17
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/28/17
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	-	20172861	-	-
SAMPLE ID	-	RV577	-	-
TEST STATUS	-	INFORMATION ONLY	-	-
STATION	-	65+00	-	-
LOCATION	-	33 RT	-	-
DEPTH IN FEET	-	0-5	-	-
MAT'L COLOR	-	RD/BR	-	-
MAT'L TYPE	-		-	-
LATITUDE DEG-MIN-SEC	-	34 36 25.50	-	-
LONGITUDE DEG-MIN-SEC	-	92 32 28.70	-	-
% PASSING	2	IN.	-	-
	1 1/2	IN.	-	-
	3/4	IN.	-	100
	3/8	IN.	-	97
	NO. 4		-	82
	NO. 10		-	69
	NO. 40		-	58
	NO. 80		-	48
	NO. 200		-	24
LIQUID LIMIT	-	ND	-	-
PLASTICITY INDEX	-	NP	-	-
AASHTO SOIL	-	A-2-4(0)	-	-
UNIFIED SOIL	-		-	-
% MOISTURE CONTENT	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED