ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

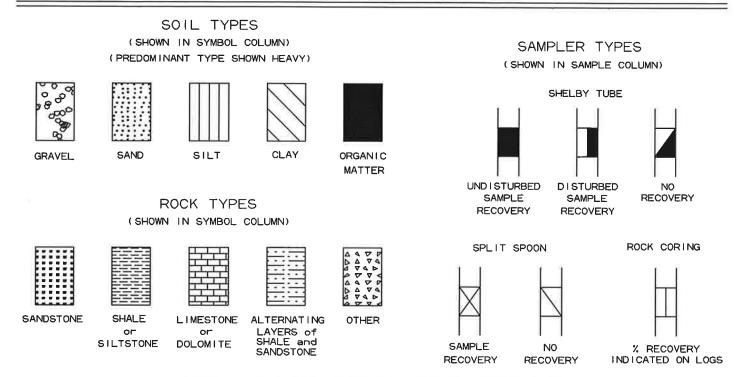


SUBSURFACE INVESTIGATION

STATE JOB NO		080423		
FEDERAL AID PROJEC	CT NO	NHPP-0071(30)		
	BEE B	BRANCH – NORTH (S)		
STATE HIGHWAY	65	SECTION	8	
IN		VAN BUREN	COUNT	Υ

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.

LEGEND



TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANL	JLAR SOIL		CLAY	CL/	AY-SHALE	8	SHALE
*N" Value	Density	"N" Value	Consistency	"N" Value	Consistency	*N° Value	Consistency
0-4	Very Loose	0-1	Very Soft	0-1	Very Soft		
5-10	Loose	2-4	Soft	2-4	Soft	31-60	Soft
11-30	Medium Dense	5-8	Medium Stiff	5-8	Medium Stiff	Over 60	
31-50	Dense	9-15	Stiff	9-15	Stiff	More than	2'
0ver 50	Very Dense	16-30	Very Stiff	16-30	Very Stiff	Penetratio	on
		31-60	Hard	31-60	Hard	in 60 Blow	vs: Medium Hard
		Over 60	Very Hard	0ver 60	Very Hard	Less than	2'
						Penetratio	on
						in 60 Blow	/s: Hard

- 1. Ground water elevations indicated on boring logs represent ground water elevations at date or time shown on boring log. Absence of water surface implies that no ground water data is available but does not necessarily mean that ground water will not be encountered at locations or within the vertical reaches of these borings.
- 2. Borings represent subsurface conditions at their respective locations for their respective depths. Variations in conditions between or adjacent to boring locations may be encountered.
- 3. Terms used for describing soils according to their texture or grain size distribution are in accordance with the Unified Soil Classification System.

Standard Penetration Test – Driving a 2.0" O.D., 1-3/8" I.D. sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and performing the test are recorded for each 6 inches of penetration on the drill log. The field "N" Value (N_f) can be obtained by

adding the bottom two numbers for example: $\frac{6}{8-9} \Rightarrow 8+9=17 blows/ft$. The "N" Value corrected to 60% efficiency (N₆₀) can be obtained by multiplying N_f by the hammer correction factor published on the boring log.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

June 24, 2013

TO:

Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT:

Job No. 080423

Bee Branch - North (S) Route 65 Section 8 Van Buren County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of replacing two existing bridges and widening approximately 8.1 miles of Highway 65 from three lanes to five lanes. Samples were obtained in the existing travel lanes, shoulders and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist of low to moderately plastic sandy clay containing varying amounts of sandstone and shale fragments. Construction grade line and cross-sections are not currently available, but it is anticipated that the construction grade line will closely match that of the existing grade line. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather during construction is favorable. Rock was encountered at several locations within the project limits, and Table 1 below lists station and depth to rock. Embankment and cut slope recommendations will be made when plans are further developed and cross-sections become available. There were no slide areas observed within the project limits.

Table 1 Depth of Rock

Station	Location from Centerline	Depth (ft.)
518+00	36 ' Rt	4.0
542+00	6', 15', 25' Lt	3.5, 4.0, 3.5
550+00	32' Rt	4.0
614+00	6', 25' Rt	4.0, 3.0
654+00	18' Lt	4.5
678+00	18', 28' Rt	4.5, 3.0
686+00	35' Lt	3.0
734+00	18', 25', 35' Lt	3.0, 3.0, 4.0
774+00	15', 25' Rt	4.0, 4.0
894+00	25', 35' Rt	4.5, 4.0

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

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

2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.4	94.6
Binder Course	4.5	95.5
Base Course	4.2	95.8

Michael C. Benson Materials Engineer

MCB:pt:bjj Attachment

CC:

State Constr. Eng. - Master File Copy

District 8 Engineer Planning Div.
G. C. File

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE	- 06/19/2013	SEOUENCE NO 1
	06/19/2013	SECUENCE NO I

JOB NUMBER - 080423 MATERIAL CODE - SSRVPS

SPEC. YEAR - 2003

SUPPLIER ID. - 1

COUNTY/STATE - 71

DISTRICT NO. - 08

JOB NAME - BEE BRANCH-NORTH (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 10

RESILIENT MODULUS

STA.566+00 6446 STA.662+00 6472

STA.838+00 6437

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.

080423

Material Code

SSRVPS

Date Sampled:	6/13/13	Station No.:	566+00
Date Tested:	June 14, 2013	Location:	36'RT.
Name of Project:	BEE BRANCH - NORTH (S)		
County:	Code: 71 Name: VAN BUREN		
Sampled By:	S.FAULKNE	Depth:	0-5
Lab No.:	20132585	AASHTO Class:	A-4(0)
		Material Type (1 or 2):	` '
Sample ID: LATITUDE:	RV1088 (2)	LONGITUDE:	-
LATITUDE.		LONGITUDE.	
1. Testing Inforn	nation:		
•	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
	Number of Load Sequences Completed (0-1	0)	10
2. Specimen Info	ormation:		
•	Specimen Diameter (in):		
	Тор		3.97
	Middle		3.96
			3.97
	Bottom		3.97
	Average		
	Membrane Thickness (in):		0.00
	Height of Specimen, Cap and Base (in):		8.01
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.01
	Initial Area, Ao (sq. in):		12.36
			98.99
	Initial Volume, AoLo (cu. in):		90.55
3. Soil Specimer	n Weight:		
•	Weight of Wet Soil Used (g):		3298.80
	g.,		
4. Soil Propertie	es:		
	Optimum Moisture Content (%):		14.5
	Maximum Dry Density (pcf):		112.1
	95% of MDD (pcf):		106.5
	In-Situ Moisture Content (%):		N/A
	m-old Moistare Content (70).		• •
5. Specimen Pro	operties:		
	Wet Weight (g):		3298.80
	Compaction Moisture content (%):		14.9
	Compaction Wet Density (pcf):		126.98
	Compaction Dry Density (pcf):		110.51
	Moisture Content After Mr Test (%):		14.6
	Moisture Content After Mr Test (%)		14.0
6. Quick Shear	Test (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	dulus, Mr:	7148(S	c)^-0.21010(S3)^0.44426
0.00 = 1			
8. Comments			

9. Tested By:	DT	Date: June 14, 2013	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

SSRVPS 566+00 36'RT.

Material Code Station No.: Location: BEE BRANCH - NORTH (S) June 14, 2013 6/13/13 080423 Date Sampled: Date Tested: Job No.

VAN BUREN Name: Code: 71 S.FAULKNE RV1088 (2) 20132585 Name of Project: Sampled By: Sample ID: Lab No.: County:

LATITUDE:

Material Type (1 or 2): 2 LONGITUDE:

A-4(0)

AASHTO Class:

Depth:

0-5

_		_		-				-					-		-			-			-
Resilient	Modulus				M	psi	13,718	12,509	11,776	10,457	9,734	11,744	10,077	9,045	8,638	8,283	8,488	7,610	6,807	6,575	6 446
Resilient	Strain				S _r	in/in	0.00013	0.00029	0.00046	0.00068	0600000	0.00015	0.00035	0.00058	0.00081	0.00104	0.00021	0.00045	0.00074	0.00102	0.00129
Average	Recov Def.	LVDT 1	and 2		Havg	Ŀ	0.00108	0.00234	0.00368	0.00544	0.00722	0.00124	0.00283	0.00464	0.00645	0.00835	0.00168	0.00362	0.00595	0.00816	0.01036
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	0.2	0.2	0.2	4.0	0.6
Actual A	Applied	Cyclic	Stress		Scyclic	psi	1.8	3.6	5.4	7.1	8.8	1.8	3.6	5.2	7.0	9.6	1.8	3.4	5.1	6.7	8.3
Actual	Applied	Мах.	Axial	Stress	S _{max}	psi	2.1	3.9	5.7	7.6	9.5	2.0	3.8	5,5	7.4	9.3	2.0	3.7	5.3	7.1	8.9
Actual	Applied	Contact	Load		P _{contact}	sql	2.6	2.7	3.6	6.2	8.7	2.7	2.8	2.9	5.4	7.9	2.8	2.9	2.9	4.6	7.1
Actual	Applied	Cyclic Load			P _{cyclic}	sql	22.8	45.1	8.99	87.7	108.4	22.4	44.0	64.8	85.9	106.7	22.0	42.5	62.5	82.8	103.0
Actual	Applied	Max. Axial	Load		P _{max}	sql	25.4	47.7	70.4	93.9	117.1	25.1	46.8	67.7	91.3	114.5	24.8	45.4	65.4	87.4	110.2
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	2.0	4.0	6.0	8.0	10.0
Chamber	Confining	Pressure			హ్	psi	0.9	0.9	0.9	0.9	0.9	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
		PARAMETER			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

June 14, 2013

DATE DATE

DT

REVIEWED BY

TESTED BY

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No.

080423

Material Code SSRVPS

Date Sampled:

6/13/13

Station No.: 566+00

Date Tested:

June 14, 2013

Location: 36'RT.

Name of Project: BEE BRANCH - NORTH (S)

County:

Code: 71

Name: VAN BUREN

Sampled By:

S.FAULKNE

Depth: 0-5

Lab No.:

AASHTO Class: A-4(0)

20132585

Sample ID:

RV1088 (2)

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

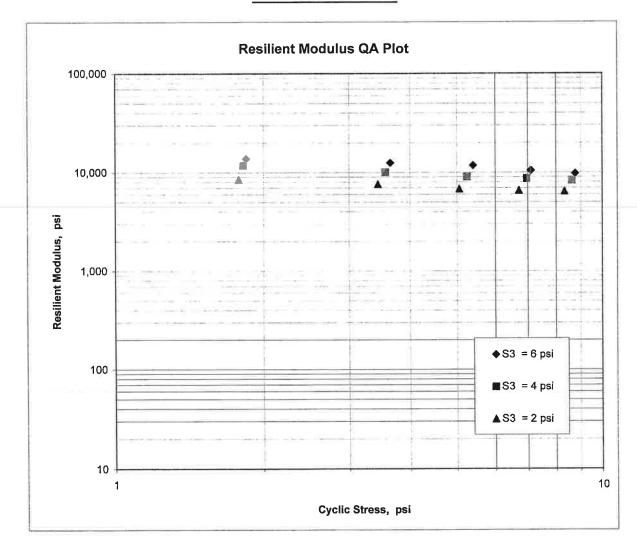
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

$$K1 = 7,148$$

$$K2 = -0.21010$$

$$K5 = 0.44426$$

$$R^2 = 0.99$$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No. Date Sampled: Date Tested:	080423 06/18/2013 June 18, 2013	Material Code Station No.:	SSRVPS 662+00
Name of Project:	June 18, 2013 BEE BRANCH - NORTH (S)	Location:	28'RT
County:	Code: 71 Name: VAN BUREN		
Sampled By:	FAULKNER	Depth:	0-5
Lab No.:	20132586	AASHTO Class:	A-4(4)
Sample ID:	RV1089	Material Type (1 or 2)	2
LATITUDE:		LONGITUDE:	
1. Testing Inforn	nation:	k	
	Preconditioning - Permanent Strain > 5% (Y	·	N
	Testing - Permanent Strain > 5% (Y=Yes or	-	N
	Number of Load Sequences Completed (0-1	5)	15
2. Specimen Info	ormation:		
	Specimen Diameter (in):		
	Тор		3.95
	Middle		3.96
	Bottom		3.95
	Average		3.95
	Membrane Thickness (in):		0.00
	Height of Specimen, Cap and Base (in):		8.03
	Height of Cap and Base (in):		0.00
	Initial Length, Lo (in):		8.03
	Initial Area, Ao (sq. in):		12.27
	Initial Volume, AoLo (cu. in):		98.57
3. Soil Specimer	n Weight:		
	Weight of Wet Soil Used (g):		3117.20
4. Soil Propertie	s:		
	Optimum Moisture Content (%)		16.7
	Maximum Dry Density (pcf):		107.2
	95% of MDD (pcf):		101.8
	In-Situ Moisture Content (%):		N/A
5. Specimen Pro	perties:		
•	Wet Weight (g):		3117.20
	Compaction Moisture content (%):		17.4
	Compaction Wet Density (pcf):		120.50
	Compaction Dry Density (pcf):		102.64
	Moisture Content After Mr Test (%):		17.4
6. Quick Shear 1	Test (Y=Yes, N=No, N/A=Not Applicable):		#VALUE!
7. Resilient Mod	ulus, Mr:	9278(S	c)^-0.29835(S3)^0.35965
9 Comments			
8. Comments			
. =			*
9. Tested By:	DEB	Date: June 18, 2013	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

SSRVPS 662+00 28'RT

Material Code Station No.:

Location:

Job No.080423Date Sampled:06/18/2013Date Tested:June 18, 2013Name of Project:BEE BRANCH - NORTH (S)

Name of Project: BEE BRANCH - NORTH (S)
County: Code: 71 Name:

VAN BUREN

Sampled By: FAULKNER
Lab No.: 20132586
Sample ID: RV1089

LATITUDE:

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

Material Type (1 or 2): LONGITUDE:

	_								_			_				_				_
Resilient Modulus				Σ̈	psi	14,490	12,927	11,483	9,624	8,670	12,675	10,795	9,425	8,360	7,685	9,223	8,424	7,548	9/8/9	6,472
Resilient Strain				ည်	in/in	0.00013	0.00028	0.00047	0.00073	0.00099	0.00014	0.00033	0.00056	0.00082	0.00110	0.00020	0.00042	0.00068	0.00097	0.00127
Average Recov Def.	LVDT1	and 2		Havg	.⊑	0.00102	0.00225	0.00376	0.00583	0.00794	0.00116	0.00266	0.00447	0.00660	0.00883	0.00157	0.00334	0.00542	0.00777	0.01023
Actual Applied	Contact	Stress		Scontact	psi	0.2	0.4	9.0	9.0	1.0	0.2	0.4	9.0	0.8	1.0	0.2	9.0	9.0	0.8	1.0
Actual Applied	Cyclic	Stress		Seyclic	psi	1.8	3.6	5.4	7.0	8.6	1.8	3.6	5.2	6.9	8.4	1.8	3.5	5.1	9.9	8.2
Actual Applied	Max.	Axial	Stress	S _{max}	psi	2.0	4.0	5.9	7.8	9.6	2.0	3.9	5.8	9.7	9.4	2.0	3.9	5.7	7.4	9.2
Actual Applied	Contact	Load		Pcontact	lbs	2.0	4.5	7.0	9.4	12.0	2.0	4.5	7.0	9.5	12.1	2.0	4.5	7.0	9.5	12.0
Actual Applied	Cyclic Load			P _{cyclic}	lps	22.5	44.5	62.9	85.8	105.2	22.4	43.8	64.4	84.3	103.7	22.1	43.0	62.5	81.6	101.2
Actual Apolied	-	Load		Р _{тах}	sql	24.5	49.0	72.9	95.2	117.3	24.4	48.3	71.4	93.8	115.8	24.1	47.4	69.5	91.1	113.2
Nominal	Axial	Stress		Seyelic	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	6.0	8.0	10.0
Confining	Pressure			လိ	psi	6.0	0.9	0.9	6.0	0.9	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
	PARAMETER			DESIGNATION	LINU	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	Sequence 15

June 18, 2013	
DATE	DATE
DEB	
TESTED BY	REVIEWED BY

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Job No.

080423

Material Code SSRVPS

Date Sampled:

06/18/2013

Station No.: 662+00

Date Tested:

June 18, 2013

Location: 28'RT

Name of Project: BEE BRANCH - NORTH (S)

County:

Code: 71

Name: VAN BUREN

Sampled By:

FAULKNER

Lab No.:

20132586

Depth: 0-5 **AASHTO Class:** A-4(4)

Sample ID:

RV1089

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

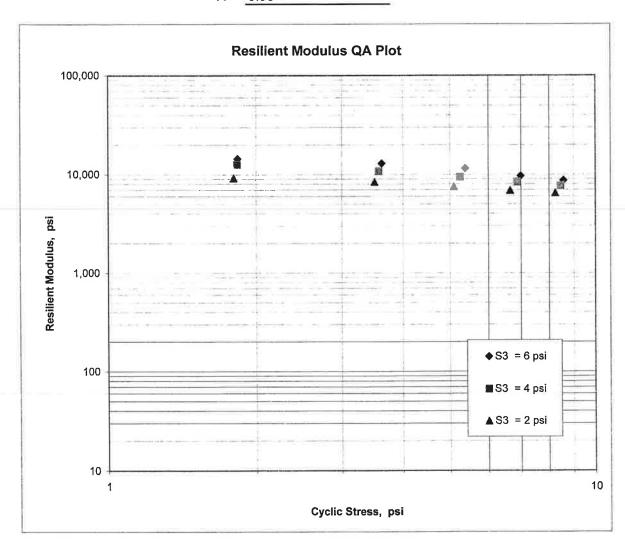
 $M_R = K1 (S_C)^{K2} (S_3)^{K5}$

K1 = 9,278

K2 = -0.29835

K5 = 0.35965

 $R^2 = 0.96$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

Material Code

SSRVPS

Job No.

080423

Date Sampled:	06/18/2013		Station No.:	838+00
Date Tested:	June 18, 2013		Location:	25'lT
Name of Project:		• •		
County:		ame: VAN BUREN		0.7
Sampled By:	FAULKNER		Depth:	0-5
Lab No.:	20132588		AASHTO Class:	A-6(1)
Sample ID:	RV1091		Material Type (1 or	2): 2
LATITUDE:			LONGITUDE:	
1. Testing Inform				
	Preconditioning - Perm	· · · · · · · · · · · · · · · · · · ·		N
	Testing - Permanent St	-		N
	Number of Load Seque	nces Completed (0-1	15)	15
2. Specimen Info	ormation:			
	Specimen Diameter (in)):		
	Тор			3.97
	Middle			3.96
	Bottom			3.97
	Average			3.97
	Membrane Thickness (i	n):		0.00
	Height of Specimen, Ca	-		8.04
	Height of Cap and Base			0.00
	Initial Length, Lo (in):			8.04
	Initial Area, Ao (sq. in):			12.36
	Initial Volume, AoLo (cu	ı. in):		99.36
3. Soil Specimer	n Weight:			
o. oon opecime	Weight of Wet Soil Use	q (a).		3248.30
	vvoight of vvot con ouc	G (g).		32 10.00
4. Soil Propertie				
	Optimum Moisture Conf			13.5
	Maximum Dry Density (pcf):		113.1
	95% of MDD (pcf):			107.4
	In-Situ Moisture Conten	nt (%):		N/A
5. Specimen Pro	perties:			
	Wet Weight (g):			3248.30
	Compaction Moisture co	ontent (%):		13.7
	Compaction Wet Densi	ty (pcf):		124.57
	Compaction Dry Density	y (pcf):		109.56
	Moisture Content After	Mr Test (%):		14.2
6. Quick Shear	Гest (Y=Yes, N=No, N/A=	=Not Applicable):		#VALUE!
7. Resilient Mod	lulus, Mr:		9208	(Sc)^-0.29835(S3)^0.35965
8. Comments				
9. Tested By:	DEB		Date: June 18, 2013	
			/	

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT MATERIALS DIVISION

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

SSRVPS 838+00

Material Code Station No.:

25'IT

Location:

BEE BRANCH - NORTH (S) June 18, 2013 06/18/2013 080423 Name of Project: Date Sampled: Date Tested: Job No.

Name: Code: 71 FAULKNER Sampled By: County:

VAN BUREN

20132588 RV1091 LATITUDE: Sample ID: Lab No.:

0-5 Depth:

AASHTO Class:

A-6(1) 2 Material Type (1 or 2):

LONGITUDE:

	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	Max. Axial Cyclic Load	Contact	Max.	Cyclic	Contact	LVDT 1		
		Stress	Load		Load	Axial	Stress	Stress	and 2		
						Stress					
DESIGNATION	Š	Soyalia	Р _{шах}	P _{cyclic}	Pcontact	S _{max}	Seyclic	Scontact	Havg	သွဲ	M
UNIT	psi	psi	sql	sql	sql	psi	psi	psi	Ë	in/in	psi
Sequence 1	0.9	2.0	24.5	22.5	2.0	2.0	1.8	0.2	0.00102	0.00013	14,411
Sequence 2	0.9	4.0	49.0	44.5	4.5	4.0	3.6	0.4	0.00225	0.00028	12,857
Sequence 3	0.9	0.9	72.9	62.9	7.0	5.9	5.3	9.0	0.00376	0.00047	11,420
Sequence 4	0.9	8.0	95.2	82.8	9.4	7.7	6.9	0.8	0.00583	0.00073	9,572
Sequence 5	0.0	10.0	117.3	105.2	12.0	9.5	8.5	1.0	0.00794	0.00099	8,622
Sequence 6	4.0	2.0	24.4	22.4	2.0	2.0	1.8	0.2	0.00116	0.00014	12,605
Sequence 7	4.0	4.0	48.3	43.8	4.5	3.9	3.5	0.4	0.00266	0.00033	10,736
Sequence 8	4.0	0.9	71.4	64.4	7.0	5.8	5.2	9.0	0.00447	0.00056	9,373
Sequence 9	4.0	8.0	93.8	84.3	9.5	7.6	6.8	0.8	0.00660	0.00082	8,314
Sequence 10	4.0	10.0	115.8	103.7	12.1	9.4	8.4	1.0	0.00883	0.00110	7,643
Sequence 11	2.0	2.0	24.1	22.1	2.0	2.0	1.8	0.2	0.00157	0.00019	9,173
Sequence 12	2.0	4.0	47.4	43.0	4.5	3.8	3.5	0.4	0.00334	0.00042	8,378
Sequence 13	2.0	0.9	69.5	62.5	7.0	5.6	5.1	9.0	0.00542	0.00067	7,506
Sequence 14	2.0	8.0	91.1	81.6	9.5	7.4	9.9	0.8	0.00777	0.00097	6,838
Sequence 15	2.0	10.0	113.2	101.2	12.0	9.2	8.2	1.0	0.01023	0.00127	6,437

DEB REVIEWED BY TESTED BY

June 18, 2013

DATE DATE

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

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

Job No.

080423

Material Code SSRVPS

Date Sampled:

06/18/2013

Station No.: 838+00

Date Tested:

June 18, 2013

Location: 25'lT

Name of Project: BEE BRANCH - NORTH (S)

County:

Code: 71

Name: VAN BUREN

Sampled By:

FAULKNER

Depth: 0-5

Lab No.:

20132588

AASHTO Class: A-6(1)

Sample ID:

RV1091

Material Type (1 or 2): 2

LATITUDE:

LONGITUDE:

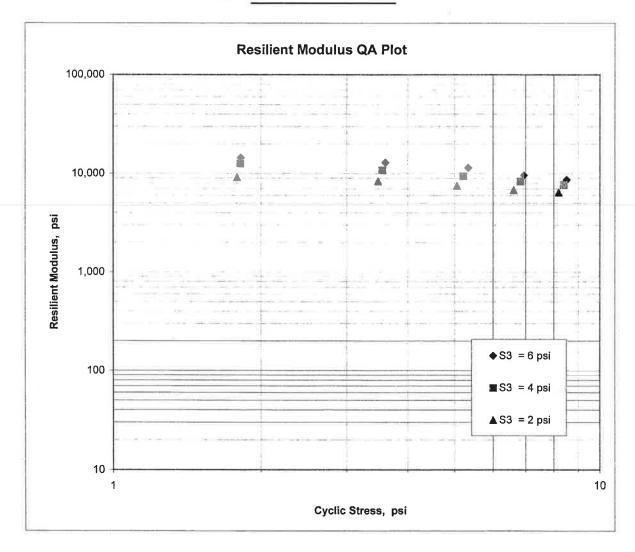
$$M_R = K1 (S_C)^{K2} (S_3)^{K5}$$

K1 = 9,208

K2 = -0.29835

K5 = 0.35965

 $R^2 = 0.96$



JOB: 080423

Arkansas State Highway _Transporation Department

Materials Division

JOB NAME: BEE BRANCH-NORTH (S)

COUNTY NO. 71 **DATE TESTED** 6/12/2013

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
502+00	15'RT	0-5	BROWN	ું કહે. (કહેલ	(;(3))	E	V .741 - 5	E Ś	23	5	A-4(0)	S935	14.9
502+00	23'RT	0-5	BROWN	. (2 6)	7. 7.5 1	ं चार्तिक हैं च	iV.	Z.V.Z.	22	4	A-4(0)	S936	15.8
510+00	06'LT	0-5	BROWN	(J.)	ું છે.	(30)	ાં કેલ્લ	ું વર્ષ	25	8	A-4(2)	S937	12.3
510+00	14'LT	0-5	BROWN	_ ,{° £};;	-(:) y	7./215	.77.5		28	10	A-4(4)	S938	18.6
518+00	15'RT	0-5	BROWN	ું કર્વે	(QV)	्रीः(a ^{r.र} ्		177%	24	6	A-4(3)	S939	17.4
518+00	25'RT	0-5	BROWN	-077F	: 90 ₇	1:92	7/88°	3: _}	22	5	A-4(0)	S940	18.4
518+00	36'RT	0-4Z	BROWN	(ov.)		π-1. V	-{; 0 =:	170) 3	ND	NP	A-4(0)	\$941	17.3
526+00	6'LT	0-5	BROWN	(0.5 ₇	95,	F-(2/E	(313)	(66)	30	12	A-6(6)	\$942	18.7
526+00	15'LT	0-5	BROWN	(log	i Ci	(: \$ [#] 15	177e -	72	26	8	A-4(1)	S943	15.2
526+00	27'LT	0-5	BROWN	1.6	्र <u>१</u> ५५	19.4	(cf:)	1566	26	8	A-4(3)	S944	20.8
534+00	15'RT	0-5	BROWN	40.5	(a.616-4.7	-73:2	17/2		25	10	A-4(2)	S945	15
534+00	26'RT	0-5	BROWN	4969 144	185	74.	7/2		24	9	A-4(2)	S946	15.5
542+00	6'LT	0-3.5Z	BROWN	-98	÷02	86	382		24	7	A-4(1)	S947	11.1
542+00	15'LT	0-4Z	BROWN	-yo ya k			/0,	1.55	24	7	A-4(0)	S948	9.3
542+00	25'LT	0-3.5Z	BROWN	E 69Fz	88	7/,	×(5(6)=	0.4	25	8	A-4(0)	S949	13.9
550+00	18'RT	0-5	BROWN	94	86	78%			ND	NP	A-4(2)	S950	8.6
550+00	25'RT	0-5	BROWN	96	88 51	(.0.4	62,		ND	NP	A-4(0)	S951	8.8
550+00	32'RT	0-4Z	BROWN	- Y.Q.	(8)	78	552	29	ND	NP	A-2-4(0)	S952	7.5
558+00	6'LT	0-5	RD/BR	7.71	#089 <u>-</u>	.00)	#: ! :#		25	8	A-4(2)	S953	10.4
558+00	18'LT	0-5	BROWN	(.v.*).		(() () () () ()	1:10 %	\mathcal{Y}^{\pm}	25	9	A-4(2)	S954	17.7
558+00	33'LT	0-5	BROWN	Q . V		- { <u>:</u> V.E.	= (6)Z=		24	6	A-4(0)	S955	10.2
566+00	36'RT	0-5	RD/BR	(i).	72	= (ate) √i	(નક્		ND	NP	A-4(0)	RV1088	
566+00	18'RT	0-5	RD/BR	e r 4_	(Ř 🖓	(en):	1.		ND	NP	A-4(0)	S956	12.8
566+00	26'RT	0-5	RD/BR	. 97	(ek)	្រែត្រូវ	-: [:∦	(J0) -	37	17	A-6(8)	S957	21.5
566+00	36'RT	0-5	RD/BR)d: =	(57)	, is:	ં સુંદ ^{ું}	\$(\$\frac{1}{2}\)	27	9	A-4(0)	S958	12.1
574+00	6'LT	0-5	BROWN		(0)		(:1/2)		ND	NP	A-4(0)	S959	13

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200 E \$	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
574+00	15'LT	0-5	BROWN	. (ey-	(2) /2	;; [; ў . ≥ :	ે કેલ્ડિક	100	23	6	A-4(1)	S960	13.5
574+00	32'LT	0-5	RD/BR	1 (2)0 ² 1	: (2)/ <i>€</i>	*(9(a) <u>*</u>	67,5	្រាះ 🗒	27	7	A-4(2)	S961	16.8
582+00	12'RT	0-5	BROWN	ં લ્વા	1:92	11/2	[5[5]]	1. 1. 4 p. 3.	20	3	A-4(0)	S962	10.2
582+00	27'RT	0-5	BROWN	્હ્રાજ્ય	(2)p	1:63	્(ફોર્ફ્સ્	14 m	23	7	A-4(1)	S963	10
582+00	40'RT	0-5	BROWN	77°	-(6 {≥ ′-	(5)(b)	等 。	3 45	24	8	A-2-4(0)	\$964	10.3
590+00	18'LT	0-5	BROWN	(1)s=	្សា	ાં ઉદ્ય	(3)	1875	27	13	A-6(2)	S965	15.1
590+00	26'LT	0-5	BROWN) (15) <u>.</u>	745	/_(3E), (E	lataku	(5).	20	5	A-4(0)	S966	16.3
590+00	40'LT	0-5	BROWN	(i): -	30%	7,51%	(3/2)	1. 7.5° .7°	22	6	A-4(0)	S967	13.3
598+00	6'RT	0-5	BR/RD		1 7 T	(* 1310 <u>-</u> 1	্বাট	· · · / · · · · ·	ND	NP	A-2-4(0)	S968	7.4
598+00	15'RT	0-5	BR/RD	Cs .	(:5)	777.1	\d(:\).	e / [0].*	19	4	A-4(0)	S969	6.1
598+00	26'RT	0-5	BROWN		, 80x=	75.5	= 30 5		ND	NP	A-2-4(0)	S970	7.7
606+00	18'LT	0-5	BROWN	e lane	/ S0#	ःहाः	(c)	45	17	4	A-4(0)	S971	18.8
606+00	25'LT	0-5	BROWN	0.5	() ()	s.80-	(6)2	3/49T	23	9	A-4(1)	S972	13.2
606+00	35'LT	0-5	BROWN	14.7.25 14.7.25	10K/2	2017	16.54	TV5-	22	10	A-4(1)	S973	12.8
614+00	6'RT	0-4Z	BROWN	7.072	84.	<i>5</i> 7	$V_{j} =$		ND	NP	A-2-4(0)	S974	8.1
614+00	15'RT	0-5	RD/BR	95		.76	1522		20	5	A-4(0)	S975	12
614+00	25'RT	0-3Z	BROWN	95	-90#	(./s)			ND	NP	A-2-4(0)	S976	6.3
622+00	15'LT	0-5	BROWN	(O.S.)	86	- 8i S	463	(40)	20	6	A-4(0)	S977	10.9
622+00	25'LT	0-5	BROWN	88	774	Kar.	्रवहार	6 36	20	4	A-4(0)	S978	10.6
622+00	35'LT	0-5	BROWN	(O) 61	, fis./	7.6%	ન લાક		21	5	A-4(0)	S979	11.1
630+00	6'RT	0-5	BROWN	200	1072	2 (1) (e) (f)	716	\$ 7.5 F.	ND	NP	A-4(0)	S980	16.1
630+00	15'RT	0-5	BROWN	76	50	:i07	42*	- 26	20	5	A-2-4(0)	S981	7.9
630+00	25'RT	0-5	BROWN	107.	Moles &	(: (: /:)	ଞ୍ଜେ		ND	NP	A-2-4(0)	S982	8.2
638+00	15'LT	0-5	BROWN	96	-0): kī	4. [6/2k 4	778	. (6%)= 1	27	8	A-4(3)	S983	14.8
638+00	25'LT	0-5	BROWN	ું હતા.	() () () () () () () () () () () () () (1 - 1.72			26	9	A-4(3)	S984	14.5
638+00	35'LT	0-5	BROWN	ៈ១០៩		7(: 5)	7/-	$=(i\overline{\gamma}_{\mathcal{E}_{i,j,k}})$	26	8	A-4(3)	S985	16.2
646+00	6'RT	0-5	BROWN	+66+	(e[a]:7	(FF)	ر آوران ا		29	9	A-4(5)	S986	16
646+00	18'RT	0-5	BROWN	(els)	- (8)3 <u>4</u>	(1)27 (2)	7.6		25	6	A-4(2)	S987	15

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200 E S	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
654+00	18'LT	0-4.5Z	BROWN	97	83	15		اد خاب	23	8	A-4(2)	S988	12.4
654+00	25'LT	0-5	BROWN	36	18,	(o);	\$\display \text{.}		24	9	A-4(1)	S989	9.9
654+00	35'LT	0-5	BROWN	-5}2	15(0)		(5)3	018	24	7	A-4(1)	S990	10.3
662+00	28'RT	0-5	RD/BR	. જુન	} ****	4.9		765	28	9	A-4(4)	RV1089	
662+00	6'RT	0-5	RD/BR	96	[] 3() [] 3()	6/4-	· (5/4-)	47.	15	3	A-4(0)	S991	6.7
662+00	18'RT	0-5	RD/BR	(3)		17	(5.1	58	17	3	A-4(0)	S992	9.9
662+00	28'RT	0-5	BR/RD		15/4:	\${5:	735 -	(\$92)	23	6	A-4(2)	S993	14.9
670+00	18'LT	0-5	BROWN	\$ / ₄	(86)	્	- 3/3	56	30	12	A-6(6)	S994	16.7
670+00	25'LT	0-5	BROWN	0 V s 1.	(A)	1882	(8(8)	54	21	7	A-4(1)	S995	9.1
670+00	35'LT	0-5	BROWN	(e)3,	215.	219	7 (3)	(3(6)	23	7	A-4(2)	S996	14.4
678+00	6'RT	0-5	BROWN	÷,	: {}] F\${9;- "	<i>'}}'</i>		26	8	A-4(2)	S997	12.1
678+00	18'RT	0-4.5Z	BROWN	(9.5)	15.6	76	(3V)	3.4	22	6	A-4(0)	S998	14.4
678+00	28'RT	0-3Z	BROWN	(å)(ĝ:	A S	(â' _t	(1 19#	(5)	21	4	A-4(0)	S999	11.9
686+00	35'LT	0-3Z	BROWN	2/6	(9)4)	13/	330	77	23	5	A-2-4(0)	S1000	5.1
694+00	6'RT	0-5	BROWN	9(5	8(8	7.6%	70)	16.5	29	8	A-4(3)	S1001	15.5
694+00	15'RT	0-5	BROWN	(gra	(3(1)	748	74	(3)	28	8	A-4(3)	S1002	12.6
694+00	25'RT	0-5	BROWN	<u>.</u>	୍ଥିବି -	/\$(ō	M.	(6)5	28	7	A-4(2)	S1003	13.6
702+00	15'LT	0-5	BROWN	(8%)	(4)	ଓଡ଼ିଆ	(6(0)	39	ND	NP	A-4(0)	S1004	8.4
702+00	25'LT	0-5	BROWN	36.5	. (a)3)	₹. (n	(\$/2.)	44	18	3	A-4(0)	S1005	8.2
702+00	35'LT	0-5	BROWN	(ev.	. 3ju	lo W	150	2.0	ND	NP	A-2-4(0)	S1006	10.5
710+00	6'RT	0-5	BROWN	୍ତି	13 (a) (a)	(8)	Ti ((56)	24	9	A-4(2)	S1007	11.3
710+00	15'RT	0-5	BROWN	(9/5)	-840	÷().	511)		22	6	A-4(0)	S1008	4.1
710+00	25'RT	0-5	BROWN	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(3)3	:810	75	ালাই	25	7	A-4(2)	S1009	6.5
718+00	15'LT	0-5	BROWN	00		12	(ঃশ্রন	177	24	6	A-4(1)	S1010	7.8
718+00	25'LT	0-5	BROWN	34	13(3)	1/3	\$57	: (5 13)	28	8	A-4(2)	S1011	8.6
718+00	35'LT	0-5	BR/GR	(1740) N	145	(7] o . -****	20%	22	22	4	A-1-B(0)	S1012	3.6
726+00	6'RT	0-5	BROWN	. 30	115(6)	N. 771	(6)	-5 (a)	27	9	A-4(3)	S1013	8.8
726+00	15'RT	0-5	BROWN		/(01)	(n72)			26	20	A-6(5)	S1014	13.9

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40 E	#80	#200 E S	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
726+00	25'RT	0-5	BROWN	13 (3 in 1	7e-3	72	(Glo)		26	19	A-6(7)	S1015	12.4
734+00	18'LT	0-3Z	BROWN	i (Shi)	(ate) : [†]	: . lā(e¹ ;: . t.,	:- P.T{	જ. લ⊍ેં ફું	21	6	A-4(0)	S1016	8.9
734+00	25'LT	0-3Z	BROWN	e(a **.	; -{\${0} -	3.7/(5); ·	(5(3)	3923	ND	NP	A-2-4(0)	\$1017	7.9
734+00	35'LT	0-4Z	BROWN	76V	115	ું (સુંકુ			ND	NP	A-2-4(0)	S1018	5.4
742+00	6'RT	0-5	BROWN	644	:}ō>	7.6	7/2	(3)	25	8	A-4(3)	S1019	13
742+00	15'RT	0-5	BROWN	OV.	r (2]0\f	(: 4)5 -		(i):\$	26	9	A-4(4)	S1020	13.5
742+00	25'RT	0-5	BROWN	ું ઊંજુ	. er:-	07	_1:{\$\	. (68) J	22	6	A-4(2)	S1021	12.6
750+00	18'LT	0-5	BROWN	= 0fa	(FE)	7 0 s	7(a).4	g/ei	27	13	A-6(7)	S1022	7.7
750+00	25'LT	0-5	BROWN	J.V.	-82	્રાસ ્	17.	ं उंति हैं	23	8	A-4(2)	S1023	10.4
750+00	35'LT	0-5	BROWN	-0s,	i kit	74.	7/2	\$ 102	27	9	A-4(4)	S1024	8.5
758+00	6'RT	0-5	BROWN	:(0, =	TATE	ાં (તે)	$\langle j \bar{j} \hat{\epsilon} \rangle$	19.5	24	7	A-4(1)	S1025	11.9
758+00	15'RT	0-5	BROWN	(9a)	:4:½	76.	(武)	(GG)	27	10	A-4(4)	S1026	19.6
758+00	25'RT	0-5	BROWN	(0)	80	-7K	168	65	26	7	A-4(2)	S1027	11.4
766+00	18'LT	0-5	BROWN	, (v) G	1:7	76	6	- 68	27	10	A-4(4)	S1028	17.7
766+00	25'LT	0-5	BROWN	(35	#75	. (X)	(50)	/50°=	23	8	A-4(1)	S1029	16.5
766+00	35'LT	0-5	BROWN	₹88 ¥	(1) (0 gr	69 K	(6) 0 fs	15 T	25	7	A-4(1)	S1030	16.4
774+00	6'RT	0-5	BROWN	10:	68	-86-	84	1.70%	27	11	A-6(7)	S1031	19.9
774+00	15'RT	0-4Z	BROWN	· 96 A	88	70	76	71	30	10	A-4(5)	S1032	17.9
774+00	25'RT	0-4Z	BROWN	96*	(6)	1:10	60	#157 _F /	24	7	A-4(1)	S1033	13.4
782+00	12'LT	0-5	BROWN	88	17.5	.35	Z.	(1)	22	5	A-4(0)	S1034	14.4
782+00	27'LT	0-5	BROWN	924	775	(5/2		(4),5	23	5	A-4(0)	S1035	13.8
782+00	40'LT	0-5	BROWN	97	10.5	7/1	(6 (9)),		24	8	A-4(2)	S1036	15.3
790+00	6'RT	0-5	BROWN	20714	1987)	. L7.	43 G %	g 285	38	21	A-6(17)	S1037	16.8
790+00	25'RT	0-5	BROWN	07.	toy th	1.64	£(0)	7747	34	19	A-6(13)	S1038	15.5
790+00	35'RT	0-5	BROWN	. (° ≘† ÷x	37(6g)	(66)	15(:		27	12	A-6(3)	\$1039	21.5
798+00	15'LT	0-5	RD/BR	(P/:	(:1	7.6%	i dei	170	20	7	A-4(0)	S1040	13.9
798+00	25'LT	0-5	BROWN	4.25	70±	=15√	/ {!:}	: \$1:\ 	ND	NP	A-4(0)	S1041	4.3
798+00	35'LT	0-5	BROWN	132	165	J.	50	- %f0j _m	20	3	A-2-4(0)	S1042	8.1

STA.#	LQC.	DEPTH	COLOR	#4	#10	#40	#80	#200 E S	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
806+00	15'RT	0-5	BROWN	30/24	-1362 -	£ . ₹9:	130%	. lo¥ °	25	8	A-4(2)	S1043	11.8
806+00	25'RT	0-5	RD/BR	ু হাক	્યું કોઇ ફ્ર	~ 74; 2 %		(C)	18	5	A-4(0)	S1044	11.1
806+00	36'RT	0-5	BROWN	* (10) ¹	[3]	์ ๆใรย์ ใ	ે (રિફેર્ક	(a) 0).	26	11	A-6(3)	S1045	14.5
814+00	15'LT	0-5	BROWN	(e)('; [:	_{គ្រ} ែក	792	্ি (১	(\$(0)	30	15	A-6(6)	S1046	14.1
814+00	25'LT	0-5	BROWN	(• //	# (: ½ [\$ -]	jili je	-(\${\$}).<	(3(0)	30	13	A-6(5)	S1047	13.5
814+00	35'LT	0-5	BROWN	j. (1): [1]	ું હતું :	/{:0*·	\.\{\pi_{\sigma}\}	/(g = 1)	29	12	A-6(1)	S1048	11.9
822+00	15'LT	0-5	BROWN	1.68		JC	. /(i 1	1547	34	20	A-6(8)	S1049	16.2
822+00	25'LT	0-5	BROWN	1066	- - 	4.67	7(5)	্রেটা	31	17	A-6(7)	S1050	18.4
822+00	35'LT	0-5	BROWN	1:72	78	ાં હોં	1507	(70)	28	12	A-6(3)	S1051	14.7
830+00	35'RT	0-5	RD/BR	7/2	1966.	100.4	7.5	- /E13	30	17	A-6(3)	RV1090	
830+00	15'RT	0-5	RD/BR	7.73.	97/1	:0°	50	16-5	21	5	A-4(0)	S1052	10.1
830+00	25'RT	0-5	RD/BR	e (cê)	: (P)		(((0))	15.5	25	10	A-4(1)	S1053	12.2
830+00	35'RT	0-5	RD/BR	(97.65 (97.65)	13 91=	((d +)	(ave.	Z(0,2%	24	10	A-4(1)	S1054	16.8
838+00	25'LT	0-5	BROWN		·研验	- 7 (s ·	77.		27	13	A-6(1)	RV1091	
838+00	6'LT	0-5	BROWN	815	(66)	(10)	(5)	7.3	23	9	A-2-4(0)	S1055	15.3
838+00	15'LT	0-5	BROWN	÷57/÷	7.1	(⊉/6€ <u>.</u>	788		28	13	A-2-6(0)	S1056	12.5
838+00	25'LT	0-5	BROWN	i kā	ું છે મા	(,5)	156	1 / V. cell	23	6	A-4(0)	S1057	17.3
846+00	18'RT	0-5	BROWN	98	(3)	7. Ch	-70) E	7/6/28	33	17	A-6(10)	S1058	27.2
846+00	25'RT	0-5	BROWN	87		2678	62	:6 <u>.</u>	26	11	A-6(3)	S1059	22.1
846+00	36'RT	0-5	BROWN	(ju)	88	77	.(a) E	12.	25	10	A-4(4)	S1060	18.1
854+00	6'LT	0-5	BR/RD	88	773	169	(37. F.	49)	23	10	A-4(2)	S1061	14
854+00	15'LT	0-5	BR/RD	89	$e^{i au / \sqrt{\eta}}$	v (sk.≝	(37 c)	75-1	23	9	A-4(1)	S1062	15.8
854+00	25'LT	0-5	BR/RD	÷:(°1÷	(3)	7.7	7/2	- Veis	23	4	A-4(0)	S1063	10.3
862+00	18'RT	0-5	BROWN	= 0(0 h	(G) E		627	794	21	8	A-4(0)	S1064	13.1
862+00	25'RT	0-5	BROWN	92);:{61	(a)	(d) >	ુલાનું યુ	ND	NP	A-4(0)	S1065	11.5
862+00	35'RT	0-5	BROWN	(i) a z	F. 7G;	(:0.)	7. 6%	-7.72	22	5	A-4(0)	S1066	12.1
870+00	6'LT	0-5	RD/BR	-0(0)		1/5	្រៅ	1-2795 35 4	19	5	A-4(0)	S1067	18.4
870+00	15'LT	0-5	BROWN	a:6	7.77,4		17 ² /2		19	6	A-4(0)	S1068	16

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	<i>LAB</i> #:	%MOISTURE
870+00	25'LT	0-5	BROWN	83	77A	E	(5(3) ² .	E 8	22	6	A-4(0)	S1069	16.1
878+00	15'RT	0-5	BROWN	81	66	49		30	21	5	A-2-4(0)	S1070	4.5
878+00	25'RT	0-5	BROWN	96	84	69	. [st.]	46	22	5	A-4(0)	S1071	13.7
878+00	35'RT	0-5	BR/RD	89	79	70	{\fok*;	48	24	9	A-4(1)	S1072	9.8
886+00	6'LT	0-5	RD/BR	91	83	76	(619-	50	18	4	A-4(0)	S1073	20.6
886+00	15'LT	0-5	BROWN	93	82	70	(a k s)	48	23	9	A-4(1)	S1074	17.5
886+00	25'LT	0-5	BROWN	74	66	55	/18 <u>5</u>	37	22	3	A-4(0)	S1075	9
894+00	15'RT	0-5	GRAY	84	71	63	(60)-	47	28	15	A-6(3)	S1076	18
894+00	25'RT	0-4.5Z	RD/BR	91	80	71	્રાસ્	50	27	14	A-6(3)	S1077	13.4
894+00	35'RT	0-4Z	RD/BR	72	60	50	_5 7 €	36	ND	NP	A-4(0)	S1078	8.7
902+00	15'LT	0-5	BR/GR	89	75	62	- (ដូទ	49	28	15	A-6(4)	S1079	28.6
902+00	25'LT	0-5	BR/GR	76	69	64	(a)	48	27	10	A-4(2)	\$1080	17.8
902+00	35'LT	0-5	RD/BR	87	81	79	77	69	36	17	A-6(10)	\$1081	23.4
910+00	15'RT	0-5	BROWN	94	94	69	6%	51	23	9	A-4(1)	S1082	14.4
910+00	25'RT	0-5	RD/BR	86	76	68	65	51	22	8	A-4(1)	S1083	18
910+00	35'RT	0-5	BROWN	82	66	51	47	35	25	11	A-2-6(0)	S1084	12.7
918+00	21'LT	0-5	BROWN	93	84	75	72	62	35	21	A-6(10)	S1085	18.4
918+00	30'LT	0-5	BROWN	81	67	56	350	45	29	15	A-6(3)	S1086	14.3
918+00	40'LT	0-5	BR/GR	86	77	70	4 (5 <u>4</u> £	57	29	14	A-6(5)	S1087	13,2

JOB NAM	JOB:
ME: BEE BRANCH-NORTH (S)	080423

Arkansas State Hignway 1 ransporation Department Materials Division

DATE TESTED 6/12/2013

Michael Benson, Materials Engineer

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STA.# LOC.

PAVEMENT SOUNDINGS

and the designation of the contesting of the	のでは、大学のは、大学のでは、大学のは、大学のは、大学のは、大学のは、大学のは、大学のは、大学のは、大学の		PATAMONTAN ONE OFFICE STREET,	September 1	феросократ
		12.0	6.5W		
		AGG.BASE CRS.CL-7	ACHMSC	25'RT	550+00
		8.0	11.5W		
		AGG.BASE CRS.CL-7	ACHMSC	18'RT	550+00
		1	1		
		AGG.BASE CRS.CL-7	ACHMSC	25'LT	542+00
		12.0	6.0W		
		AGG.BASE CRS.CL-7	ACHMSC	15'LT	542+00
		10.0	12.0WX		
		AGG.BASE CRS.CL-7	ACHMSC	6'LT	542+00
		9.0	12.0WX		
		AGG.BASE CRS.CL-7	ACHMSC	26'RT	534+00
		9.0	12.0W		
		AGG.BASE CRS.CL-7	ACHMSC	15'RT	534+00
		1	1		
		AGG.BASE CRS.CL-7	ACHMSC	27'LT	526+00
	8.0		9.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	526+00
	10.0	2.75	12.75W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'LT	526+00
	I	1			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	36'RT	518+00
		9.0	11.5W	72.27	010+010
		ACC BASE CBS CI Z		1	
		9.0	12.0W	3	0
		AGG.BASE CRS.CL-7	ACHMSC	15 D	518+00
		10.0	12.0W	į	0
		AGG.BASE CRS.CL-7	ACHMSC	14'I T	510+00
	10.0		9.0WX		0
	AGG.BASE CRS.CL-7	ACHMBC /	ACHMSC	064 T	510+00
	9.0		10.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	23'RT	502+00
	8.0		12.5XW		
	AGG.BASE CRS.CL-7	ACHMBC /	ACHMSC	15'RT	502+00

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Friday, June 21, 2013

F. 1 11 2013	JGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	/=MULTIPLE LAY	- 1	comments:
		1	I		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	26'RT	598+00
	12.0	I	5.75W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	598+00
	13.0	9.0W	6.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	598+00
		I	Ī		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	40'LT	590+00
	10.0	I	4,5		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	26'LT	590+00
	6.0	5.5WX	7.5WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	590+00
		2	ł		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	40'RT	582+00
	12.0	l	5.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	27'RT	582+00
	10.0	8.5W	5.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	12'RT	582+00
	1	1			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	32'LT	574+00
	12.0	1	9.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	574+00
	11.0	8.0W	7.0WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'LT	574+00
		ļ	I		
		AGG.BASE CRS.CL-7	ACHMSC	36'RT	566+00
		11.0	4.5W		
		AGG.BASE CRS.CL-7	ACHMSC	26'RT	566+00
		11.0	12.0W		
		AGG.BASE CRS.CL-7	ACHMSC	18'RT	566+00
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	33'LT	558+00
	10.0	3.0	9.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	558+00
	10.0	2.5W	12.5W		1
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6/LT	558+00
				1	000
		AGG BASE CRS CI -7	ACHMSC	33'BT	750±00
PAVEMENT SOUNDINGS	PA			LOC.	STA.#

71 7012		AUGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	V=MULTIPLE LAY	- 1	comments:
		10.0	-	2.5		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	654+00
		10.0	10.5W	5.5W		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	654+00
		12.0	1	9.0WX		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'RT	646+00
		12.0	8.0WX	7.0WX		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	646+00
		Į	I	I		
	7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	638+00
		10.0	I	4.5W		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	638+00
		10.0	6.25W	5.0WX		
	7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	638+00
		ľ	1	ļ		
	7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	630+00
		13.0	l	5.0W		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	630+00
		12.0	7.5WX	5.50W		
	L-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	630+00
		1	I	1		
	2-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	622+00
		12.0	I	3.25		
	-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	622+00
		11.0	5.5WX	6.25WX		
	-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	622+00
		1	1	-		
	1-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	614+00
		12.0	I	5.5W		
		AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	614+00
		12.0	8.0WX	5.0W		
		AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	614+00
				İ		
		AGG,BASE CRS,CL-7	ACHMBC	ACHMSC	35'LT	606+00
		13.0	I	6.0WX		
	-7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	606+00
		13.0	8.0WX	6.0WX		
	7	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	606+00

PAVEMENT SOUNDINGS

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Friday, June 21, 2013

1	GER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	/=MULTIPLE LAY	Í	Comments:
	12.0		4.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	710+00
	10.0	AA0.9	5.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	710+00
	1		l		
		AGG.BASE CRS.CL-7	ACHMSC	35'LT	702+00
	12.0	I	4.0		
		AGG.BASE CRS.CL-7	ACHMSC	25'LT	702+00
	10.0	6.0WX	8.0WX		
		AGG.BASE CRS.CL-7	ACHMSC	15'LT	702+00
	l	I	I		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	694+00
	13.0	2.0	5.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	694+00
	12.0	6.0W	8.25W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	694+00
		1	1		
		AGG.BASE CRS.CL-7	ACHMSC	35'LT	686+00
		1	1		
		AGG.BASE CRS.CL-7	ACHMSC	28'RT	678+00
		12.0	5.25W		
		AGG.BASE CRS.CL-7	ACHMSC	18'RT	678+00
	2.0	8.0WX	7.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	678+00
	-	ł			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	670+00
	10.0	1	8.0WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	670+00
	8.0		13.25W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	670+00
		I			
	AGG.BASE CRS.CL-7	ACHVIBC	ACHMSC	28'RT	662+00
	14.0	1.5WX	5.5WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'RT	662+00
	13.0	7.0WX	7.0WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	662+00
		I	-		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	654+00

PAVEMENT SOUNDINGS

FJ 11 1012	:=AUGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	V=MULTIPLE LAY	- 1	comments:
		1			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	758+00
	10.0	I	4.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	758+00
	11.0	8.0W	6.0W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	758+00
	I	1	i		
	AGG.BASE CRS.CL-7	ACHMSC	ACHMSC	35'LT	750+00
	10.0	I	3.25		
	AGG.BASE CRS.CL-7	ACHMSC	ACHMSC	25'LT	750+00
	6.0	7.0WX	6.0WX		
	AGG.BASE CRS.CL-7	ACHMSC	ACHMSC	18'LT	750+00
	į	I	ľ		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	742+00
	11.0	Ĭ	5.25W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	742+00
	12.0	5.0W	6.75W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	742+00
	1	1			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	734+00
	10.0	1	4.25		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	734+00
	12.0	3.5W	9.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	18'LT	734+00
	1	1			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	726+00
	12.0	I	6.0WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	726+00
	8.0	8.5W	5.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	726+00
	1	I	I		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	718+00
	11.0		4.0		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	718+00
	11.0	7.07/	5.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	718+00
	1	I	I		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	710+00

PAVEMENT SOUNDINGS

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Friday, June 21, 2013

12.0	8.0W	7.0W		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	814+00
	1	1		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	36'RT	806+00
12.0	1	2.25		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	806+00
10.0	14.0W	4.0W		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	806+00
-	-	I		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	798+00
12.0	I	2.5		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	798+00
10.0	9.0W	6.0W		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	798+00
	!	•		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	790+00
I	1	6.0WX		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	790+00
10.0	9.0W	6.75W		
AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	790+00
	AGG.BASE CRS.CL-7	ACHMSC	40'LT	782+00
	12.0	4.5		
	AGG.BASE CRS.CL-7	ACHMSC	27'LT	782+00
	12.0	12.0W		
	AGG.BASE CRS.CL-7	ACHMSC	12'LT	782+00
1	-	1		
AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	774+00
11.0	9.0W	7.0WX		
AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	774+00
10.0	7.5W	12.0W		
AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	6'RT	774+00
	I	1		
AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	766+00
4.0		4.0		
AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	766+00
4.0	8.0W	5.0W		Š
AGG BASE CRS CI -7	ACHMRO	ACHMSC	1 2 1 1	766+00

PAVEMENT SOUNDINGS

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Friday, June 21, 2013	JGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	/=MULTIPLE LAYE	-	comments:
	10.0	İ	5.25W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	862+00
	8.0	7.0W	6.0W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	18'RT	862+00
		1	l		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	854+00
	13.0	1	7.0W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	854+00
	12.0	8.0W	6.5W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	6'LT	854+00
	I				
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	36'RT	846+00
	10.0	1	6.0WX		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	846+00
	10.0	8.0W	7.5WX		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	18'RT	846+00
	I		I		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	838+00
	12.0	1	6.0WX		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	838+00
	12.0	7.0W	6.75WX		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	6'LT	838+00
	1	ľ			
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	830+00
	10.0		7.5WX		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	830+00
	12.0	8.0W	7.5W		
	AGG.BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	830+00
		I	I		
	7	AGG. BASE CRS.CL-7	ACHMSC	35'LT	822+00
		14.0	2.0		
	7	AGG. BASE CRS.CL-7	ACHMSC	25'LT	822+00
		14.0	15.5W		
	7	AGG. BASE CRS.CL-7	ACHMSC	15'LT	822+00
		a-ration.	I		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	814+00
	AGG. BASE CRO.CL-/	ACHIVIBO	4.0	17.67	874+00
	700 000 000 000 000 000 000 000 000 000	ACHURO			

PAVEMENT SOUNDINGS

Friday, June 21, 2013	=AUGER REFUSAL	W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL	⁄=MULTIPLE LAY	1	comments:
	-	ı	ı		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	910+00
	14.0	I	2.5		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	910+00
	12.0	7.5W	11.5W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	910+00
	1	I	1		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'LT	902+00
	12.0	1	2.5		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	902+00
	12.0	10.25W	4.5W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	902+00
	I	I	I		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	894+00
	14.0		2.5X		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	894+00
	6.0	6.5W	7.0W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	894+00
]	-	-		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	886+00
	14.0	1	2.75		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	886+00
	13.0	4.5W	9.25WX		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	6'LT	886+00
	I	I	ĺ		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	878+00
	10.0	(Constant)	2.5W		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	25'RT	878+00
	12.0	8.0WX	2.5WX		
	AGG, BASE CRS.CL-7	ACHMBC	ACHMSC	15'RT	878+00
		!			
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	25'LT	870+00
	12.0	1.25	3.5		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	15'LT	870+00
	12.0	7.25W	4.75W		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	6년	870+00
		l	1		
	AGG. BASE CRS.CL-7	ACHMBC	ACHMSC	35'RT	862+00

PAVEMENT SOUNDINGS

Friday, June 21, 2013

STA.# LOC.	LOC.			PAVEMENT SOUNDINGS
918+00 21'LT	21'LT	ACHMSC	ACHMBC	AGG. BASE CRS.CL-7
		5.0W	11.5W	11.0
918+00 30'LT	30'LT	ACHMSC	ACHMBC	AGG. BASE CRS.CL-7
		2.75	1	12.0
918+00 40'LT	40'LT	ACHMSC	ACHMBC	AGG. BASE CRS.CL-7

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comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Friday, June 21, 2013

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E SAMPLED BY - D.DICK SAMPLE FROM - TEST	BE ASSI L SURVE SPECIFI TE BEE BRAN IOT APPL ISAS BUREN CO	Y SAMPLE CATION CHI CH-NORTH LICABLE				CODE - S AR - 2 ID 1 FATE - 7 NO 0 PLED - 0 EIVED - 0	SSRVPS :003 :1 :08 :05/22/13
MATERIAL DESC SO		EY - R VA	LUE- PAVI	EME	ENT SOUNDI	1110	70/12/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	SEC - IN - IN - IN - IN - IN - IN - IN - IN	20132432 S935 INFORMAT: 502+00 15'RT 0-5 BROWN	ION ONLY	- - -	20132433 S936 INFORMATI 502+00 23'RT 0-5 BROWN	 510+00 06'LT 0-5 BROWN	TION ONLY 7 32.20 4 21.10
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC AGG.BASE CRS.CL-7	- - -	23 5 A-4(0) 14.9 12.5XW	ī		22 4 A-4(0) 15.8 10.0W 9.0	25 8 A-4(2) 12.3 9.0WX 4.0WX 10.0	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

	DOIL	DORVET / .		50	CINDING 110.				
DATE - 06/1 JOB NUMBER - 0804 FEDERAL AID NO TO E PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - BE PROJECT ENGINEER - NO PIT/QUARRY - ARKANS	23 BE ASSI SURVE SPECIFI SE BRAN DT APPI	Y SAMPLE CATION CHI CH-NORTH LICABLE				MATERIA SPEC. SUPPLIA COUNTY DISTRIC	AL YEA ER /ST CT	ID 1 PATE - 71 NO 08	3
LOCATION - VAN BU		OUNTY						PLED - 05/	
SAMPLED BY - D.DICKI								EIVED - 05/ TED - 06/	
SAMPLE FROM - TEST F MATERIAL DESC SOI		317 D 177	TIE DATE	DMT.	מאים פטנואוט או		E51	LED - 06/	12/13
MATERIAL DESC SOI.	L SURVI	SY - R VA	LUE- PAV.	FIATE	INI POONDIN	GD			
LAB NUMBER	-	20132435			20132436		-	20132437	
SAMPLE ID	-				S939			S940	
TEST STATUS	_	INFORMAT	ION ONLY	-	INFORMATIO	ON ONLY			N ONLY
STATION	_	510+00		=	518+00		-	518+00	
LOCATION	-	14 'LT		-	15'RT		-	25'RT	
DEPTH IN FEET	-	0-5		-	0-5		_	0-5	
MAT'L COLOR	_	BROWN			BROWN		_	BROWN	
MAT'L TYPE	-			-			-		
LATITUDE DEG-MIN-S	SEC -	35 27	32.10	-	35 27	37.70	-	35 27	37.70
LONGITUDE DEG-MIN-S	SEC -	92 24	21.10		92 24	27.60		92 24	27.50
% PASSING 2	IN								
1 1/2				_			2		
•		100		_	100		-		
•	IN	99		_	99			100	
•	4 -	93		-	96		=	97	
NO.	10 -	87		-	92		-	90	
	40 -	78		-	86		-	82	
NO.	80 -	74		_	84		_	78	
	200 -	64		_	77		:==:	58	
110. 2	200	04							
LIQUID LIMIT	-	28		$-\overline{\pi}$	24		-	22	
PLASTICITY INDEX	-	10		_	U		-	5	
AASHTO SOIL	-	A-4(4)		-	A-4(3)		-	A-4(0)	
UNIFIED SOIL	-			-			-		
% MOISTURE CONTENT	-	18.6			17.4			18.4	
ACHMSC	(IN) -	12.0W			12.0W		_	11.5W	
AGG.BASE CRS.CL-7	(IN) -	10.0		-	9.0		-	9.0	
	· -			-			-		
	-			-			-		
	_			-			-		
	_			_			_		
	_			_			_		
	_			_			-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/3 JOB NUMBER - 080/4 FEDERAL AID NO TO 1 PURPOSE - SOID SPEC. REMARKS - NO 3 SUPPLIER NAME - STAM NAME OF PROJECT - BO PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - VAN BO	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPL SAS UREN CO	Y SAMPLE CATION CHEC CH-NORTH (: ICABLE				SPEC. Y. SUPPLIE COUNTY/ DISTRIC	L CODE EAR R ID. STATE T NO.	- SSRVPS - 2003 - 1 - 71 - 08
SAMPLE BY - D.DICK SAMPLE FROM - TEST I MATERIAL DESC SOI	HOLE	77 D 777 T	TTE DATE	nveta	NT COINIDIN	DATE TE		- 05/28/13 - 06/12/13
MATERIAL DESC SOI	L SURVE	Y - R VAL	UE- PAVE	ME	NI SOUNDIN	IGS		
LAB NUMBER	-	20132438		-	20132439		2013	2440
SAMPLE ID	-	S941			S942		- S943	
TEST STATUS	-		ON ONLY	-				RMATION ONLY
STATION	_			_	526+00		526+	
LOCATION DEPTH IN FEET		36'RT		_	6'LT		15'L' 0-5	T
		0-4Z BROWN		-	0-5 BROWN		_ U-S BROW	NT .
MAT'L COLOR MAT'L TYPE	_	BROWN		_	BROWN		_ BROW.	N
LATITUDE DEG-MIN-S	SEC -	35 27	37.80	_	35 27	43.20	_ 35	27 43.20
LONGITUDE DEG-MIN-	SEC -	92 24	27.40		92 24	33.60	92	24 33.70
% PASSING 2	IN			_			-	
1 1/2	IN			-			-	
3/4	IN	100		-			100	
·		99		_	100		99	
	4 -			_	98		_ 96	
NO.		89		-	95		_ 89	
	40 -	84		-	92		_ 83	
NO.	80 - 200 -	80 59		-	88 66		- 79 52	
	200 -							
LIQUID LIMIT	-	ND		-	30		- 26 - 8	
PLASTICITY INDEX AASHTO SOIL	-			_	12			(1)
UNIFIED SOIL	_	A-4(0)		_	A-6(6)		A-4	(1)
% MOISTURE CONTENT	_	17.3		-	18.7		- 1	5.2
ACHMSC	(IN) -				12.75W		_ 0	OW
ACHMBC	(IN) -			2	2.75			
AGG.BASE CRS.CL-7	(IN) -			-	10.0		- 8.	
	-			-			-	
	7. 2.			::= '`⊆			15 2	
	_			2			_	
	-						-	
				//55 (V25)			22 22	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/12/3 JOB NUMBER - 080423 FEDERAL AID NO TO BE A PURPOSE - SOIL SU SPEC. REMARKS - NO SPEC SUPPLIER NAME - STATE NAME OF PROJECT - BEE A PROJECT ENGINEER - NOT A PIT/QUARRY - ARKANSAS LOCATION - VAN BUREA	ASSI IRVE ZIFI BRAN APPI	Y SAMPLE CATION CHECK ICH-NORTH (S) LICABLE			MATERIAI SPEC. YE SUPPLIEF COUNTY/S DISTRICT	R ID 1 STATE - 71	
SAMPLED BY - D.DICKERS SAMPLE FROM - TEST HOLD MATERIAL DESC SOIL S	ON E		EME	NT SOUNDIN	DATE RE	CEIVED - 05/28/13	
	OICV.	THE VIEW OF THE VIEW					
LAB NUMBER	-	20132441		20132442		20132443	
SAMPLE ID	-	S944		S945		S946	_
TEST STATUS	-					INFORMATION ONLY	٤
STATION		526+00		534+00 15'RT		534+00 26'RT	
LOCATION		27'LT 0-5	-	0-5	-	0-5	
DEPTH IN FEET			-	U-5 BROWN	-	BROWN	
MAT'L COLOR MAT'L TYPE	-	BROWN	-	BROWN	-	. BROWN	
LATITUDE DEG-MIN-SEC	-	35 27 43.10	-			. 35 27 49.90	
LONGITUDE DEG-MIN-SEC	-	92 24 33.90		92 24	38.50	92 24 38.40	
% PASSING 2 IN	. –		_		-		
1 1/2 IN			-		-		
3/4 IN		100	-	100	-	100	
3/8 IN		98	-	99	-	22	
NO. 4	-	96	_	93	15	95	
NO. 10	_	95	_	86	-	. 85	
NO. 40	-	92	-	78	-	. 77	
NO. 80	-	88	-	72	25		
NO. 200	-	66		50		53	
LIQUID LIMIT	-		¥	25	5 3	24	
PLASTICITY INDEX	-	8	-	10		- 9 - A-4(2)	
AASHTO SOIL	-	A-4(3)	_	A-4(2)	2	A-4(2)	
UNIFIED SOIL	_	20.8	-	15.0	59	15.5	
% MOISTURE CONTENT	_	20.8					
ACHMSC (IN			-	12.0W		12.0WX	
AGG.BASE CRS.CL-7 (IN	() – –		_	9.0		9.0	
	_		_			=	
	-		-			=	
	-		-			=:	
	-		-			-	
	_		_			-, -	
	_		_			_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

JOB NUMBER - 08 FEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - ST NAME OF PROJECT - SP PROJECT ENGINEER - ST	BE ASSI IL SURVE SPECIFI ATE BEE BRAN NOT APPI	Y SAMPLECATION	CHECK			SPEC. YEA	CODE - S AR ~ 2 ID 1 FATE - 7	003
PIT/QUARRY - ARKA								- /00 /00
LOCATION - VAN 3 SAMPLED BY - D.DIC	BUREN CO	ONTY		98			PLED - 0 EIVED - 0	
SAMPLE FROM - TEST						DATE REC		6/12/13
MATERIAL DESC SO		EY - R	VALUE- PAV	EME	NT SOUNDI		TED 0	0/12/13
LAB NUMBER								
		201324	44		20132445 S948		20132446 S949	
SAMPLE ID TEST STATUS	-	S947	ATTON ONLY			ON ONLY		V.TMO MOT
STATION	_		AIION ONLI		542+00	LON ONLI	542+00	TON ONTI
LOCATION	_			-	15'LT		25'LT	
DEPTH IN FEET	_	0-3.5Z		-	0-4Z	-	0-3.5Z	
MAT'L COLOR	_	BROWN		_	BROWN	-	BROWN	
MAT'L TYPE	-			_		-		
LATITUDE DEG-MIN	-SEC -	35	27 56.10	-	35 27	56.10	35 27	56.10
LONGITUDE DEG-MIN	-SEC -	92	24 43.20		92 24	43.30	92 24	43.40
% PASSING 2	IN					_		
1 1/:	2 IN			$\widehat{\boldsymbol{x}} = \boldsymbol{x}$		-		
3/4	4 IN			-		-	100	
3/1	8 IN	100		=	100	_	95	
NO.	4 -	98		_	97	_	89	
NO.		92		-	90	_	83	
NO.		86		***	84	_	75	
NO.		82		-	79	-	66	
NO.	200 -	53			45		39	
LIQUID LIMIT	-	24		-	24		25	
PLASTICITY INDEX	-	7		-	7		8	
AASHTO SOIL	-	A-4 (1)	-	A-4(0)	-	A-4(0)	
UNIFIED SOIL	~			_		-		
% MOISTURE CONTENT	Γ -	11.	1		9.3		13.9	
ACHMSC	(IN) ~	12.0	WX	055	6.0W	=		
AGG.BASE CRS.CL-7	(IN) -	10.0		1.7	12.0	=		
	_			12		-		
	_			-		_		
	_			-				
	_			12		=		
	_			-		-		
	_			36		=		
	_					□ □		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

RVPS 03 //22/13 //28/13
/12/13
ON ONLY
3.10 47.50

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E	423 BE ASSI L SURVE SPECIFI TE SEE BRAN OT APPI	Y SAMPI CATION CH-NORT	CHE					CODE - AR - ID IATE - NO	2003 1 71 08
SAMPLED BY - D.DICH SAMPLE FROM - TEST MATERIAL DESC SO	HOLE	EY - R	VA	LUE- PAV	EME	ENT SOUNDI	DATE TES		05/28/13 06/12/13
LAB NUMBER SAMPLE ID TEST STATUS	- - -	201324 S953		ON ONLY	-	20132451 S954 TNFORMAT	- ION ONLY -	201324 S955 INFORM	52
STATION LOCATION DEPTH IN FEET	-	558+00 6'LT		.01. 01.21		558+00 18'LT 0-5		558+00 33'LT 0-5	
MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	- - SEC -	RD/BR	28	10.40	*	BROWN 35 28	10.40	BROWN 35	28 10.40
LONGITUDE DEG-MIN-		92		53.90			54.10	92	24 54.30
3/4	IN	100			2 2 3	100 99	-	100 95	
NO.		100 97 93			3 1 1	97 94 92	=	93 88 84	
NO. NO.		90 88 55			1	90 52	-	82 51	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL	- - -	25 8 A-4 (2)		- - -	25 9 A-4(2)	- - -	24 6 A-4 (0)
% MOISTURE CONTENT	· -	10	. 4		-	17.7	_	10	. 2
ACHMSC ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) -	12. 2.5 10.	W		-	9.5W 3.0 10.0	-		5 5
	-				-		- -	- - -	
	- - -				-			- -	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

		,							
DATE - 06,	/12/13					SEQUENCE	NO 8		
JOB NUMBER - 080	0423					MATERIAL	CODE - S	SRVPS	
FEDERAL AID NO TO	SPEC. YE	AR - 2	003						
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1									
SPEC. REMARKS - NO	SPECIFI	CATION C	HECK			COUNTY/S	TATE - 7	1	
SUPPLIER NAME - ST	ATE					DISTRICT	NO 0	8	
NAME OF PROJECT - I			(S)						
PROJECT ENGINEER - 1	NOT APPI	LICABLE							
PIT/QUARRY - ARKAI	NSAS								
LOCATION - VAN I	BUREN CO	UNTY				DATE SAM	IPLED - 0	5/22/13	
SAMPLED BY - D.DIC	KERSON						EIVED - 0		
SAMPLE FROM - TEST	HOLE					DATE TES	STED - 0	6/12/13	
MATERIAL DESC SO	IL SURV	EY - R V	ALUE- PAV	EME	ENT SOUNDI	NGS			
LAB NUMBER	-	2013245	3	-	20132454	-	20132455		
SAMPLE ID	_	S956		_	S957	-	S958		
TEST STATUS	_	INFORMA	TION ONLY	-	INFORMATI	CON ONLY -	INFORMAT	ION ONLY	
STATION	_	566+00		-	566+00	-	566+00		
LOCATION	_	18'RT		-	26'RT	_	36'RT		
DEPTH IN FEET	-	0-5		-	0-5	-	0-5		
MAT'L COLOR	_	RD/BR		_	RD/BR	_	RD/BR		
MAT'L TYPE	-			_		_			
LATITUDE DEG-MIN-			8 16.60		35 28	16.70 -	35 28	16.70	
LONGITUDE DEG-MIN-	-SEC -	92 2	4 59.70		92 24	59.60	92 24	59.50	
% PASSING 2	IN			<u> </u>		-			
1 1/2	2 IN			-		8=	100		
3/4	1 IN: -			-		:=	94		
3/8	3 IN	100		=	100	-	81		
NO.	4 -	97		Ē	97	(S)	68		
NO.	10 -	93			93	_	62		
NO.	40 -	90		_	90		58		
NO.	80 -	88		4	88	78	55		
NO.	200 -	52			60		36		
LIQUID LIMIT	_	ND		_	37	-	27		
PLASTICITY INDEX	_	NP		_	17	5	9		
AASHTO SOIL	_	A-4(0)		-	A-6(8)	2	A-4(0)		
UNIFIED SOIL	_	, - ,		-		_			
% MOISTURE CONTENT	r -	12.8		-	21.5	-	12.1		
ACHMSC	(IN) -	12.0W	ī	-	4.5W	i -			
AGG.BASE CRS.CL-7	(IN) -	11.0		-	11.0				
	.==.,	· -		•		-	8		
	-			-		-	ă.		
	-			-		-	6		
	924			-		i 	e S		
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	-			-		:-			
	S.#F			-		_	E		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/12/13 SEQUENCE NO. - 9

JOB NUMBER - 080423 MATERIAL CODE - SSRVPS

FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003

PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1

SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 71

SUPPLIER NAME - STATE DISTRICT NO. - 08

NAME OF PROJECT - BEE BRANCH-NORTH (S)

PROJECT ENGINEER - NOT APPLICABLE

PIT/QUARRY - ARKANSAS

LOCATION - VAN BUREN COUNTY

SAMPLED BY - D.DICKERSON

DATE SAMPLED - 05/22/13

SAMPLE FROM - TEST HOLE

DATE TESTED - 06/12/13

MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

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 * PASSING 2 IN 3/4 IN 3/4 IN 3/8 IN NO. 4 NO. 10 NO. 40 NO. 80 NO. 200	 100 - 98	- 20132457 - S960 - INFORMATION ONLY - 574+00 - 15'LT - 0-5 - BROWN - 35 28 22.50 - 92 25 6.20 	- 20132458 - S961 - INFORMATION ONLY - 574+00 - 32'LT - 0-5 - RD/BR - 35 28 22.40 - 92 25 6.40 - 100 - 99 - 97 - 96 - 94 - 58
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL * MOISTURE CONTENT ACHMSC (IN ACHMBC (IN AGG.BASE CRS.CL-7 (IN	n) - 8.0W	- 23 - 6 - A-4(1) - 13.5 - 9.0W - 12.0	- 27 - 7 - A-4(2) - 16.8

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

			'							
DATE - 06/	/12/13							SEQUENC	Œ	NO 10
JOB NUMBER - 080	0423							MATERI <i>I</i>	ΛŢ	CODE - SSRVPS
FEDERAL AID NO TO	EDERAL AID NO TO BE ASSIGNED							SPEC. Y	Œ	AR - 2003
PURPOSE - SOI	PURPOSE - SOIL SURVEY SAMPLE									ID 1
SPEC. REMARKS - NO			COUNTY	/s:	TATE - 71					
										NO 08
NAME OF PROJECT - I	BEE BRAN	ICH-NOR'	TH ((S)						
PROJECT ENGINEER - 1	NOT APPI	ICABLE								
PIT/QUARRY - ARKAN	NSAS									
LOCATION - VAN H	BUREN CO	YTMU						DATE S.	MA	PLED - 05/22/13
SAMPLED BY - D.DIC	KERSON							DATE R	EC:	EIVED - 05/28/13
SAMPLE FROM - TEST	HOLE							DATE T	ES'	TED - 06/12/13
MATERIAL DESC SO	IL SURVE	EY - R	. VAI	LUE- PAV	EME	NT SOU	NDI	NGS		
LAB NUMBER	#0	201324	150		_	201324	160		_	20132461
SAMPLE ID		S962	±33			S963	100			S964
TEST STATUS			M Δ ጥ T	ON ONLY			רידעו	ON ONLY		
STATION		582+00		ON ONE	_	582+00		OIL OILDI	_	582+00
LOCATION		12'RT	•		-	27'RT	-		-	40'RT
DEPTH IN FEET		0-5			-	0-5			_	0-5
MAT'L COLOR	_				-	BROWN			-	BROWN
MAT'L TYPE	=	Ditonii			_				_	
LATITUDE DEG-MIN-	-SEC =	35	28	28.80	_	35	28	28.90	_	35 28 29.00
LONGITUDE DEG-MIN-	-SEC -	92	25	12.10		92	25	11.90		92 25 11.80
% PASSING 2	IN				_				_	
1 1/2	2 IN				-				_	
·	1 IN	100			-				-	100
	3 IN	95			-	100			-	88
·	4 -	91			-	96			-	77
NO.	10 -	82			-	90			_	68
NO.		74			_	83			_	61
NO.	80 -	55			_	66			_	47
NO.	200 -	41				52				35
I TOUTD I TMITT		2.0				2.2				24
LIQUID LIMIT PLASTICITY INDEX	-	20 3			_	23 7			_	8
AASHTO SOIL	_	-	٥١		-	•	11		_	A-2-4(0)
UNIFIED SOIL	_	A-4 (0)		=	A-4(Τ,		_	A-2-4(0)
% MOISTURE CONTENT	- -	10	2		_	10	0		-	10.3
										10.5
ACHMSC	(IN) -	5.5			_	5.0			_	
ACHMBC	(IN) -	8.5			_				_	
AGG.BASE CRS.CL-7	(IN) -	10.	U		_	12.	U		_	
	-				_				-	
	-				-				-	
	-				-				-	
	-				-				-	
	_				_				_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - I PROJECT ENGINEER - I PIT/QUARRY - ARKAI	BE ASSIL SURVE SPECIFIATE BEE BRAN NOT APPINSAS	Y SAMPLE CATION CH ICH-NORTH ICABLE				SPEC. YE. SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC	CODE - S AR - 2 ID 1 IATE - 7 NO 0 IPLED - 0 EVELUED - 0	003 1 8 5/22/13 5/28/13
SAMPLE FROM - TEST HOLE DATE TESTED - 06/12/13 MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS								
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	-	20132462 S965 INFORMAT 590+00 18'LT 0-5		- - -	20132463 S966 INFORMATI 590+00 26'LT 0-5	-	590+00 40'LT 0-5	
MAT'L COLOR MAT'L TYPE	-	BROWN		-	BROWN	-	BROWN	
LATITUDE DEG-MIN- LONGITUDE DEG-MIN			34.70 18.40	-	35 28 92 25	34.70 - 18.50		34.60 18.60
3/3 3/3 NO. NO. NO.	40 -	100 97 95 91 88 58 43			100 96 85 75 69 56 37	- - - - - - - - - - - - - - - - - - -	100 96 88 80 73 62 45	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTEN	- - - -	27 13 A-6(2)		-	20 5 A-4(0) 16.3	7 2 2	22 6 A-4(0)	
ACHMSC ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) - - -	7.5WX 5.5WX 6.0		-	4.5 10.0			
	241			_		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

	POIL BO	KAEI / E	Averma	500	ONDING IND	I KHIOKI		
JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - I PROJECT ENGINEER - I PIT/QUARRY - ARKAI	BE ASSIGN IL SURVEY SPECIFICA ATE BEE BRANCH NOT APPLICA NSAS BUREN COUN KERSON HOLE	SAMPLE ATION CHE H-NORTH (CABLE NTY	(S)	EME	NT SOUNDIN	MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT DATE SAN DATE REC DATE TES	AR - 2003 ID 1 TATE - 71 NO 08 IPLED - 05/22 EIVED - 05/28	/13 /13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	- S - I - 5 - 6 - 0 - B -	398+00 5'RT 0-5 BR/RD 35 28		-	20132466 S969 INFORMATI 598+00 15'RT 0-5 BR/RD	-	20132467 S970 INFORMATION 0 598+00 26'RT 0-5 BROWN 35 28 40. 92 25 23.	60
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	IN 2 IN 4 IN 3 IN 4 - 10 - 40 -	100 98 92 84 80 60 34			100 93 83 74 58 40	(7) (2) (3) (4) (4) (4) (5)	100 96 87 80 75 50 31	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC AGG.BASE CRS.CL-7	- - - (IN) - (IN) - - - - -	ND NP A-2-4(0) 7.4 6.0W 9.0W 13.0			19 4 A-4(0) 6.1 5.75W 12.0	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	ND NP A-2-4(0)	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B SAMPLED BY - D.DICK SAMPLE FROM - TEST	423 BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CHECK TE EE BRANCH-NORTH (S) OT APPLICABLE SAS UREN COUNTY	SUPPLIER ID COUNTY/STATE - DISTRICT NO DATE SAMPLED - DATE RECEIVED - DATE TESTED -	SSRVPS 2003 1 71 08
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	- 606+00 - 18'LT - 0-5 - BROWN	- 606+00 - 606+00 - 25'LT - 35'LT - 0-5 - 0-5 - BROWN - BROWN	MATION ONLY
LONGITUDE DEG-MIN- % PASSING 2 1 1/2 3/4	SEC - 92 25 30.00 IN IN IN 100 IN 99 4 - 96 10 - 90 40 - 85 80 - 61	92 25 30.10 92	25 30.20
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC AGG.BASE CRS.CL-7	- 17 - 4 - A-4(0) - 18.8 (IN) - 6.0WX (IN) - 8.0WX (IN) - 13.0	- 23 - 22 - 9 - 10 - A-4(1) - A-4(1) - 13.2 12 - 6.0WX - 13.0 - 13.0	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B SAMPLED BY - D.DICK SAMPLE FROM - TEST	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPL SAS UREN CO	Y SAMPLE CATION CHECK CH-NORTH (S) LICABLE			DISTRICT DATE SAM	CODE - SSRVPS AR - 2003 ID 1 FATE - 71 NO 08 PLED - 05/22/13 EIVED - 05/28/13
MATERIAL DESC SOI		EY - R VALUE- PAV	/EME	ENT SOUNDIN		160 - 00/12/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	-	614+00 6'RT 0-4Z BROWN 35 28 53.80	-	614+00 15'RT 0-5 RD/BR	_	20132473 S976 INFORMATION ONLY 614+00 25'RT 0-3Z BROWN
LONGITUDE DEG-MIN-	SEC -	92 25 34.70		92 25	34.50	92 25 34.40
3/4 3/8 NO. NO. NO.	40 -	100 99 92 84 78 47	111111111	100 95 85 78 52 37		100 99 95 90 84 54
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - -	ND NP A-2-4(0)		20 5 A-4(0)	- - - -	ND NP A-2-4(0)
ACHMSC ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) - (IN) - - - - -	5.0W 8.0WX 12.0	-	5.5W 12.0	- - - - - - -	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E	423 BE ASSI L SURVE SPECIFI TE BEE BRAN OT APPL	Y SAMPLE CATION CH CH-NORTH ICABLE				SEQUENCE MATERIAL SPEC. YEZ SUPPLIER COUNTY/ST DISTRICT	CODE - S AR - 2 ID 1 TATE - 7	SRVPS 003 1 8
SAMPLED BY - D.DICE SAMPLE FROM - TEST MATERIAL DESC SO	HOLE	EY - R VA	LUE- PAV	EME	ENT SOUNDI	DATE REC	EIVED - 0	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-	SEC -	622+00 15'LT 0-5 BROWN 35 29		-	20132475 S978 INFORMATI 622+00 25'LT 0-5 BROWN 35 29 92 25	ON ONLY - - - - 1.90 - 37.90	622+00 35'LT 0-5 BROWN	ION ONLY
3/4 3/8	IN 4 - 10 - 40 - 80 -	100 99 93 86 81 63 39			100 88 77 68 55 36	- - - - - - -	100 98 91 83 78 61 38	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	20 6 A-4(0)			20 4 A-4(0)	-	21 5 A-4(0)	
ACHMSC ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) - (IN) - - - - -	6.25WX 5.5WX 11.0			3.25	- - - - - - -	2222	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPI SAS UREN CO ERSON HOLE	Y SAMPLE CATION CHE ICH-NORTH LICABLE OUNTY	(S)	EME	NT SOUNDIN	SPEC. YEAR SUPPLIER COUNTY/ST DISTRICT DATE SAM DATE REC DATE TES	CODE - SSRVPS AR - 2003 ID 1 FATE - 71 NO 08 PLED - 05/22/13 EIVED - 05/28/13
LAB NUMBER	-	20132477		*	20132478	-	20132479
SAMPLE ID	_	S980		-	S981	-	S982
TEST STATUS	-	INFORMATI	ON ONLY	-	INFORMATIO	ON ONLY -	INFORMATION ONLY
STATION	-	630+00		-	630+00	-	630+00
LOCATION	-	6'RT		_	15'RT		25'RT
DEPTH IN FEET		0-5		-	0-5	=	0-5
MAT'L COLOR	-	BROWN		~	BROWN	-	BROWN
MAT'L TYPE	_	25 22	0.40	-	25 22	-	25 20 0 40
LATITUDE DEG-MIN-		35 29		=	35 29		35 29 9.40 92 25 38.60
LONGITUDE DEG-MIN-	SEC -	92 25	38.80		92 25	38.70	92 25 38.60
3/4 3/8 NO. NO. NO.	4 - 10 - 40 -	100 96 92 89 79 45			100 92 76 59 50 42 28	-	100 97 90 83 63 33
LIQUID LIMIT	-	ND		-	20	·	ND
PLASTICITY INDEX	-	NP		-	5	(E)	NP
AASHTO SOIL	-	A-4(0)		_	A-2-4(0)		A-2-4(0)
UNIFIED SOIL	-			_		= 2	
% MOISTURE CONTENT	-	16.1			7.9		8.2
ACHMSC	(IN) -	5.50W		-	5.0W	-	
ACHMBC	(IN) -	7.5WX		-		-	
AGG.BASE CRS.CL-7	(IN) -	12.0		_	13.0	-	
	_			_		_	
	_			_		_	
	-			-		-	
	-			-		-	
	_			-		-	
	-			_		_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E SAMPLED BY - D.DICE SAMPLE FROM - TEST MATERIAL DESC SOI	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPL SAS UREN CO CERSON HOLE	Y SAMPLE CATION CE CH-NORTH ICABLE OUNTY	(S)	EME	ent soundi.	DISTRICT DATE SAM DATE REC DATE TES	CODE - S AR - 2 ID 1 FATE - 7 NO 0	1 8 5/22/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2	- - - - - - SEC - SEC -	20132480 S983 INFORMAT 638+00 15'LT 0-5 BROWN		- -	20132481 S984 INFORMAT: 638+00 25'LT 0-5 BROWN		638+00 35'LT 0-5 BROWN	TION ONLY 17.20 41.50
3/4	10 - 40 - 80 -	100 96 88 82 77 64			100 99 96 90 84 77 65	- - - - - -	100 98 90 83 78 74 62	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC	(IN) -	27 8 A-4(3) 14.8 5.0WX			26 9 A-4(3) 14.5 4.5W	26 14 26 26 26	26 8 A-4(3) 16.2	
ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) - - - - -	6.25W 10.0	х	-	10.0	-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E SAMPLED BY - D.DICK SAMPLE FROM - TEST				COUNTY/ST DISTRICT DATE SAM	CODE - SAR - 20 ID 1 IATE - 7 NO 0 PLED - 09 EIVED - 09	SRVPS 003 1 8 5/22/13		
MATERIAL DESC SO		EY - R V	ALUE- PAV	EME	ENT SOUNDI		TED 0	0/12/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2 1 1/2	SEC - IN	20132483 S986 INFORMAT 646+00 6'RT 0-5 BROWN 35 29 92 25	GION ONLY 3 24.80	•	20132484 S987 INFORMATI 646+00 18'RT 0-5 BROWN 35 29 92 25	=	654+00 18'LT 0-4.5Z BROWN 35 29	32.60 41.10
•	IN	100 99		2	100 99	=	100	
·	4 -	96		-	95	-	97	
NO.	10 -	90		_	88	-	83	
NO.	40 -	85		2	82	72.0 72.0	76	
NO.	80 -	82		*	78	2	71	
NO.	200 -	74			63		56	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	29 9 A-4(5)			25 6 A-4(2) 15.0	-	23 8 A-4(2)	
ACHMSC	(IN) -	7.0WX		_	9.0WX	_	5.5W	
ACHMBC	(IN) -	8.0WX		_	5.0WA	-	10.5W	
AGG.BASE CRS.CL-7	(IN) -	12.0		-	12.0	-	10.0	
111111111111111111111111111111111111111	,	,		-		1-	_0.0	
	-			-		ST.		
	-			-		(E		
	_			_		_		
	_			_		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA	BE ASSI L SURVE SPECIFI ATE BEE BRAN NOT APPI	Y SAMPLE CATION C	CHECK			SPEC. YE SUPPLIER	CODE - S: AR - 2: ID 1 FATE - 7	SRVPS 003 1
LOCATION - VAN E SAMPLED BY - D.DICE SAMPLE FROM - TEST MATERIAL DESC SO	HOLE		VALUE- PAV	EME	NT SOUNDI	DATE REC	PLED - 0 EIVED - 0 TED - 0	
	II DONVI					_	00120100	
LAB NUMBER	-	2013248	6	-	20132487 S990	=======================================	20132488 S991	
SAMPLE ID TEST STATUS	_	S989	TTON ONLY	15		ION ONLY -		TON ONLY
STATION		654+00	TITON ONLY		654+00	- LOW ONL!	662+00	TOM OMIT
LOCATION	_	25'LT			35'LT	1,000	6'RT	
DEPTH IN FEET	_	0-5		-	0-5	-	0-5	
MAT'L COLOR	_	BROWN		-	BROWN		RD/BR	
MAT'L TYPE	-			-		-		
LATITUDE DEG-MIN-	·SEC -	35 2	9 32.60	-	35 29	32.70 -	35 29	40.30
LONGITUDE DEG-MIN-	-SEC -	92 2	5 41.20		92 25	41.30	92 25	37.50
% PASSING 2	IN			_		_		
	IN			_	100	_		
	IN			-	96	-		
	IN	100		-	93	-	100	
NO.	4 -	91		-	88	-	96	
NO.	10 -	78		_	80	_	90	
NO.	40 -	63		-	74	-	84	
NO.	80 -	57		-	69	-	64	
NO.	200 -	47			56		47	
LIQUID LIMIT	-	24		_	24		15	
PLASTICITY INDEX	_	9		-	7	-	3	
AASHTO SOIL	-	A-4(1))	-	A-4(1)	· -	A-4(0)	
UNIFIED SOIL	-			-		-		
% MOISTURE CONTENT		9.	9	_	10.3		6.7	
ACHMSC	(IN) -	2.5		-		2	7.0WX	
ACHMBC	(IN) -	10.0		_			7.0WX 13.0	
AGG.BASE CRS.CL-7	(IN) -	10.0		_		-	€ 13.0	
	-			-			5	
	-			-		=	9	
	-			-				
	_			-		-	e. 6	
	_			_		-	·- 2	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/18/13 SEQUENCE NO. - 20

JOB NUMBER - 080423 MATERIAL CODE - SSRVPS

FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003

PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1

SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 71

SUPPLIER NAME - STATE DISTRICT NO. - 08

NAME OF PROJECT - BEE BRANCH-NORTH (S)

PROJECT ENGINEER - NOT APPLICABLE

PIT/QUARRY - ARKANSAS

LOCATION - VAN BUREN COUNTY

SAMPLED BY - D.DICKERSON

DATE SAMPLED - 05/22/13

SAMPLE FROM - TEST HOLE

DATE TESTED - 06/12/13

MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

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	- 662+00 - 18'RT - 0-5 - RD/BR - 35 29	ON ONLY	S993	- 20132491 - S994 - INFORMATION ONLY - 670+00 - 18'LT - 0-5 - BROWN - 35 29 47.60 92 25 34.60
% PASSING 2 IN. 1 1/2 IN. 3/4 IN. 3/8 IN. NO. 4 NO. 10 NO. 40 NO. 80 NO. 200	- - 100 - 96		100 96 87 82 80 75	- - 100 - 98 - 94 - 85 - 79 - 75 66
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC (IN ACHMBC (IN AGG.BASE CRS.CL-7 (IN	- 1.5WX	-	23 6 A-4(2) 14.9	- 30 - 12 - A-6(6) - 16.7 - 13.25W - 8.0
	- - - -	7) 21 41 42 42		-

REMARKS - W-MULTIPLE LAYERS, X-STRIPPED, Z-AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/1 JOB NUMBER - 0804 FEDERAL AID NO TO B PURPOSE - SOIL SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - BE PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - VAN BU SAMPLED BY - D.DICKE SAMPLE FROM - TEST H MATERIAL DESC SOIL	23 E ASSIC SURVEY PECIFIC E BRANC T APPL EAS FREN COL	SAMPLE CATION CHECK CH-NORTH (S) ICABLE UNTY Y - R VALUE- PA		MATERIAL SPEC. YE SUPPLIES COUNTY/S DISTRICS DATE SA DATE RE DATE TE	R ID 1 STATE - 71 I NO 08 MPLED - 05/22/13 CEIVED - 05/28/13 STED - 06/12/13
LAB NUMBER SAMPLE ID TEST STATUS STATION	-		- 670+0	MATION ONLY	20132494 - S997 - INFORMATION ONLY - 678+00
LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE	- - -	0-5	- 35'L] - 0-5 _ BROW]	9	6'RT 0-5 BROWN
LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S		35 29 47.60 92 25 34.70		29 47.60 25 34.80	35 29 55.30 92 25 32.80
1 1/2 3/4 3/8 NO. NO. NO. NO.	IN IN 4 - 10 - 40 -	100 99 95 88 82 66 54	- - 100 - 98 - 95 - 90 - 75 66	5 5 8 9 8 9 8 8	100 98 94 88 80 71
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - -	21 7 A-4(1) 9.1	- 23 - 7 - A-4 - 1	(2) 4.4	- 26 - 8 - A-4(2) - 12.1
ACHMBC	(IN) - (IN) - - - - - -	8.0WX 10.0	- ## - ## 		- 7.5W - 8.0WX - 2.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

	•				
DATE - 06/18/13		SEQUENCE	NO 22		
JOB NUMBER - 080423		MATERIAL CODE - SSRVPS			
FEDERAL AID NO TO BE ASSIGNED		SPEC. YEA	IR - 2003		
PURPOSE - SOIL SURVEY SAMPI	Æ	SUPPLIER	ID 1		
SPEC. REMARKS - NO SPECIFICATION	CHECK	COUNTY/SI	ATE - 71		
SUPPLIER NAME - STATE		DISTRICT	NO 08		
NAME OF PROJECT - BEE BRANCH-NORT	TH (S)				
PROJECT ENGINEER - NOT APPLICABLE					
PIT/QUARRY - ARKANSAS					
LOCATION - VAN BUREN COUNTY		DATE SAM	PLED - 05/22/13		
SAMPLED BY - D.DICKERSON		DATE RECI	EIVED - 05/28/13		
SAMPLE FROM - TEST HOLE		DATE TEST	TED - 06/12/13		
MATERIAL DESC SOIL SURVEY - R	VALUE- PAVEMENT SO	UNDINGS			
			00720400		
LAB NUMBER - 201324			20132497		
SAMPLE ID - S998	_ S999		S1000		
	MATION ONLY - INFO				
STATION - 678+00			686+00		
LOCATION - 18'RT	- 28'R	_	35'LT		
DEPTH IN FEET - 0-4.52	_	-	0-3Z		
MAT'L COLOR - BROWN	_ BROW	N _	BROWN		
MAT'L TYPE -	_	-			
		29 55.30 -	35 30 2.60		
LONGITUDE DEG-MIN-SEC - 92	25 32.60 92	25 32.40	92 25 35.30		
% PASSING 2 IN	_	 /			
1 1/2 IN	_	=			
3/4 IN 100	- 100	H			
3/8 IN 97	- 93	=	100		
NO. 4 - 93	- 86	5 :	93		
NO. 10 - 85	- 76	-	83		
NO. 40 - 76	_ _ 67	-	57		
NO. 80 - 64	_ 50	-	30		
NO. 200 - 53	36		27		
			0.3		
LIQUID LIMIT - 22	= 21	-	23		
PLASTICITY INDEX - 6	- 4		5		
AASHTO SOIL - A-4(O) A-4	1(0)	A-2-4(0)		
UNIFIED SOIL -	10 -2	-			
% MOISTURE CONTENT - 14	. 4	11.9	5.1		
ACHMSC (IN) - 5.2	5W	-			
AGG.BASE CRS.CL-7 (IN) - 12.	0	-			
_	_	-			
-	-	-			
	<u>-</u>	-			
	-	_			
_		-			
-	_	-			
	_	_			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

423 BE ASSI L SURVE SPECIFI TE BEE BRAN OT APPL	Y SAMPLE CATION CHI CCH-NORTH ICABLE		MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT	CODE - AR - ID TATE - NO	8 0			
SAMPLED BY - D.DICKERSON DATE RECEIVED - SAMPLE FROM - TEST HOLE DATE TESTED - MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS								
	694+00	ION ONLY	-	S1002 INFORMATI 694+00	ON ONLY -	S1003 INFORMA 694+00	0 TION ONLY	
- - -	0-5 BROWN		- - -	0-5 BROWN	- - -	0-5 BROWN		
			-	35 30 92 25	10.40 - 36.70		0 10.40 5 36.50	
IN: - IN: - 4 - 10 - 40 -	100 95 86 75 70 63			100 97 90 78 73 67	: - 	100 96 92 86 80 68 60		
- - -	8 A-4(3)			8 A-4(3)	-	7 A-4(2)		
(IN) - (IN) - (IN) - - - - -	8.25W 6.0W 12.0			5.0W 2.0 13.0	- - - - -			
	SPECIFICATE BEE BRANGIOT APPLISAS BUREN CO KERSON HOLE IL SURVE	### ### ##############################	BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CHECK TE BEE BRANCH-NORTH (S) NOT APPLICABLE ISAS BUREN COUNTY KERSON HOLE L SURVEY - R VALUE- PAVI - 20132498 - S1001 - INFORMATION ONLY - 694+00 - 6'RT - 0-5 - BROWN - SEC - 35 30 10.40 SEC - 92 25 36.80 IN	BE ASSIGNED EL SURVEY SAMPLE SPECIFICATION CHECK ATE BEE BRANCH-NORTH (S) HOT APPLICABLE HISAS BUREN COUNTY KERSON HOLE HOLE LL SURVEY - R VALUE- PAVEME - 20132498 S1001 INFORMATION ONLY 694+00 6'RT 0-5 BROWN 8EC - 35 30 10.40 SEC - 92 25 36.80 IN I	BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CHECK LTE BEE BRANCH-NORTH (S) IOT APPLICABLE ISAS BUREN COUNTY KERSON HOLE L SURVEY - R VALUE- PAVEMENT SOUNDIN - 20132498 - 20132499 - S1001 - S1002 - INFORMATION ONLY - INFORMATI - 694+00 - 694+00 - 6'RT - 15'RT - 0-5 - 0-5 - BROWN - BROWN - SEC - 35 30 10.40 - 35 30 SEC - 92 25 36.80 92 25 IN	MATERIAL BE ASSIGNED SPEC. YE LI SURVEY SAMPLE SUPPLIER SPECIFICATION CHECK COUNTY/S ATTEMATICAL BEE BRANCH-NORTH (S) NOT APPLICABLE ISAS BUREN COUNTY DATE SAM CERSON DATE REC HOLE DATE TES LI SURVEY - R VALUE- PAVEMENT SOUNDINGS - 20132498 - 20132499 - S1001 - S1002 - INFORMATION ONLY - INFORMATION ONLY - 694+00 - 694+00 - 6'RT - 15'RT - 0-5 - 0-5 - BROWN - BROWN - SEC - 35 30 10.40 - 35 30 10.40 - SEC - 35 30 10.40 - 35 30 10.40 - SEC - 92 25 36.80 92 25 36.70 IN	MATERIAL CODE - SPEC. YEAR - SUPPLIER ID SPEC. YEAR - SUPPLIER ID COUNTY/STATE - DISTRICT NO DISTRICT	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

5		, 111121111				
DATE - 06/13/	13				SEQUENCE	NO 24
JOB NUMBER - 080423					MATERIAL	CODE - SSRVPS
FEDERAL AID NO TO BE	ASSI	GNED			SPEC. YEA	AR - 2003
PURPOSE - SOIL S	URVE	Y SAMPLE			SUPPLIER	ID 1
SPEC. REMARKS - NO SPE	CIFI	CATION CHECK			COUNTY/ST	TATE - 71
SUPPLIER NAME - STATE					DISTRICT	NO 08
NAME OF PROJECT - BEE	BRAN	ICH-NORTH (S)				
PROJECT ENGINEER - NOT	APPI	ICABLE				
PIT/QUARRY - ARKANSAS						
LOCATION - VAN BURE		UNTY				PLED - 05/22/13
SAMPLED BY - D.DICKERS	ON					EIVED - 05/28/13
SAMPLE FROM - TEST HOL	E				DATE TES	TED - 06/12/13
MATERIAL DESC SOIL S	URV	EY - R VALUE- PAV	EME	ENT SOUNDIN	IGS	
LAB NUMBER	_	20132501	-	20132502	_	20132503
SAMPLE ID	-	S1004	_	S1005	_	S1006
TEST STATUS	_	INFORMATION ONLY	-	INFORMATI	ON ONLY -	INFORMATION ONLY
STATION	_	702+00	_	702+00	-	702+00
LOCATION	_	15'LT	-	25'LT	-	35'LT
DEPTH IN FEET	_	0-5	-	0-5	-	0-5
MAT'L COLOR	_	BROWN	_	BROWN	_	BROWN
MAT'L TYPE	-		_		-	
LATITUDE DEG-MIN-SEC	_	35 30 18.30	_	35 30	18.30 -	35 30 18.30
LONGITUDE DEG-MIN-SEC	-	92 25 36.30		92 25	36.40	92 25 36.50
% PASSING 2 IN			_			
1 1/2 IN			_		-	
3/4 IN		100	-	100	-	
3/8 IN		99	-	97	=	100
NO. 4	_	94	_	91		94
NO. 10	_	91	_	85	_	90
NO. 40	_	90	_	78	_	87
NO. 80	-	60	-	62	<u>=</u>	45
NO. 200	-	39		41		21
LIQUID LIMIT	_	ND	_	18	=	ND
PLASTICITY INDEX	_	NP	-	3	=	NP
AASHTO SOIL	_	A-4(0)	-	A-4(0)	=0	A-2-4(0)
UNIFIED SOIL	_		-		-	
% MOISTURE CONTENT	_	8.4	-	8.2	-	10.5
ACHMSC (I	4) –	8.0WX	_	4.0		
	4) –	6.0WX	-		_	2222
	-	10.0	-	12.0	-	
	-		-		-	
	-		-		_	
	_		_		-	
	_		_		-	
	_		_		_	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

			•						
DATE - 06/	18/13						SEQUENCE	NO 25	
JOB NUMBER - 080	423						MATERIAL	CODE - SS	RVPS
FEDERAL AID NO TO	BE ASS	IGNED					SPEC. YE	AR - 20	03
PURPOSE - SOI	L SURV	EY SAMP	LE					ID 1	
SPEC. REMARKS - NO	SPECIF	ICATION	CHI	ECK			COUNTY/S'		
SUPPLIER NAME - STA	TE						DISTRICT		
NAME OF PROJECT - E		NCH-NOR	TH	(S)					
PROJECT ENGINEER - N									
PIT/OUARRY - ARKAN									
LOCATION - VAN E		OUNTY					DATE SAM	IPLED - 05	/22/13
SAMPLED BY - D.DICE								EIVED - 05	
SAMPLE FROM - TEST							DATE TES		/12/13
MATERIAL DESC SO		7EV - E	772	T.TTE - PAW	e.ME	TOMIOS TW		125	,,
	LII DORV			LOD LAW.					
LAB NUMBER	-	20132	504			20132505	-	20132506	
SAMPLE ID	-	S1007			-	S1008	-	S1009	
TEST STATUS	-	INFOR	MAT)	ON ONLY	-	INFORMATI	ON ONLY -	INFORMATI	ON ONLY
STATION	-	710+0	0		-	710+00	-	710+00	
LOCATION	_	6'RT			-	15'RT	-	25'RT	
DEPTH IN FEET	-	0-5			-	0-5	_	0-5	
MAT'L COLOR	_	BROWN			_	BROWN	_	BROWN	
MAT'L TYPE	_				_		_		
LATITUDE DEG-MIN-	SEC -	35	30	25.60	_	35 30	25.60 -	35 30	25.60
LONGITUDE DEG-MIN-		92	25	36.20		92 25	36.10	92 25	36.00
% PASSING 2	IN				-		-		
	IN -				-		-		
•	IN				_	100	_		
·	IN				_	98	_	100	
	4 -				_	92	_	97	
NO.					-	81	-	88	
NO.	40 -	82			-	70	-	80	
NO.	80 -	71			-	64	-	73	
NO.	200 -	59				51		66	
LIQUID LIMIT	_	24			_	22	_	25	
PLASTICITY INDEX	_				_	6	_	7	
AASHTO SOIL	_		2)		_	A-4(0)	-	A-4(2)	
UNIFIED SOIL	_	11 1 (4 /	×	-	11 1(0)	-	11 1(2)	
% MOISTURE CONTENT	, _	11	3		-	4.1	-	6.5	
								0.5	
ACHMSC	(IN) -				-	4.5W	-		
ACHMBC	(IN) -				-		-		
AGG.BASE CRS.CL-7	(IN) -	10.	. 0		_	12.0			
	_				_		_		
	_				_		_		
	-				_		-		
	-				_		_	•	
	-				-		_		
	_						_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - I PROJECT ENGINEER - I PIT/QUARRY - ARKAI	BE ASSIL SURVE SPECIFI ATE BEE BRAN NOT APPI NSAS BUREN CO	EY SAMPI CATION NCH-NOR LICABLE			SEQUENCE MATERIAL SPEC. YE SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC DATE TES	CODE - AR - ID IATE - NO IPLED - EIVED -	71 08 05/22/13		
MATERIAL DESC SO		EY - R	VA	LUE- PAV	EME	ENT SOUNDI		122	00, 12, 13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2 1 1/2 3/4	-SEC - IN	201329 S1010 INFORM 718+00 15'LT 0-5 BROWN 35 92	507 MATI 0		=	20132508 S1011 INFORMATI 718+00 25'LT 0-5 BROWN 35 30 92 25		718+00 35'LT 0-5 BR/GR 35 3 92 2	9 TION ONLY 0 31.60 5 42.20
· ·	3 IN	100			-	100	-	96 74	
NO. NO.	4 - 10 -	99 86			-	94 85	-	74 45	
NO.		72			_	73	=	29	
NO.	80 -	65			_	67	-	25	
NO.	200 -	57				58		22	
LIQUID LIMIT	-	24			-	28	-	22 4	
PLASTICITY INDEX AASHTO SOIL	_	6 A-4 (1 \		_	8 A-4 (2)	=	4 А-1-В(0)
UNIFIED SOIL	_	21 1	_,		-	11 1 (2)	-		• ,
% MOISTURE CONTENT	r -	7	.8		-	8.6	~	3.6	
ACHMSC	(IN) -	5.5	W		:	4.0	-		
ACHMBC	(IN) -	7.0			-		_		
AGG.BASE CRS.CL-7	(IN) -	11.	0		: T	11.0	_		
	-				=		-		
	-				-		-		
	_				-		_		
	_				-		_		
	_						-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

	20		, -						
DATE - 06/	13/13						SEQUENCE	NO 3	27
JOB NUMBER - 080	423						MATERIAL	CODE - S	SSRVPS
FEDERAL AID NO TO	BE ASSI	GNED					SPEC. YEA	AR - 2	2003
PURPOSE - SOI	L SURVE	Y SAMP	LE				SUPPLIER	ID.	L
SPEC. REMARKS - NO	SPECIFI	CATION	CHE	CK			COUNTY/ST	rate - '	71
SUPPLIER NAME - STA	TE						DISTRICT		
NAME OF PROJECT - E	BEE BRAN	ICH-NOR	TH ((S)					
PROJECT ENGINEER - N									
PIT/QUARRY - ARKAN									
LOCATION - VAN E		UNTY					DATE SAM	PLED - (5/22/13
SAMPLED BY - D.DICI							DATE REC		
SAMPLE FROM - TEST							DATE TES		
MATERIAL DESC SO		ΣΥ - R	VA	LUE- PAV	EME	ENT SOUNDIN			
LAB NUMBER	-	201325	510			20132511		2013251	2
SAMPLE ID	-	S1013				S1014		S1015	
TEST STATUS	-	INFORI	ITAN	ON ONLY		INFORMATI			TION ONLY
STATION	-	726+0	0		-	726+00	-	726+00	
LOCATION	_	6'RT			_	15'RT	_	25'RT	
DEPTH IN FEET	-	0-5			_	0-5	_	0-5	
MAT'L COLOR	_	BROWN			_	BROWN	_	BROWN	
MAT'L TYPE	_				_		_		
LATITUDE DEG-MIN-	SEC -	35	30	36.50	_	35 30	36.60 -	35 3	36.70
LONGITUDE DEG-MIN-	-SEC -	92	25	49.50		92 25	49.50	92 2	5 49.50
% PASSING 2	IN				12		_		
	2 IN				-		_		
	IN				-	100	-	100	
-	3 IN	100			-	90	-	92	
·	4 -	90			-	79	-	86	
NO.		80			-	70	-	79	
NO.		71			-	64	-	72	
NO.		65			2	56	_	65	
=	200 -	58				47		57	
	200								
LIQUID LIMIT	_	27			-		-	26	
PLASTICITY INDEX	-	9			-	20	_	19	
AASHTO SOIL	-	A-4 (3)		-	A-6(5)	_	A-6(7)	
UNIFIED SOIL	-				-		_		
% MOISTURE CONTENT	r –	8	.8			13.9		12.4	
ACHMSC	(IN) -	5.5	W		-	6.0WX	-		
ACHMBC	(IN) -	8.5	W		-		-		
AGG.BASE CRS.CL-7	(IN) -	8.0)		-	12.0	_		
	-				-		_	•	
	-				_		-		
	-				_		_		
	_				_		_		
	_				_		-	•	
	_				_		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/1	3/13					SEQUENC	E NO.	- 28
JOB NUMBER - 0804	23				MATERIAL CODE - SSRVPS			- SSRVPS
FEDERAL AID NO TO B	BE ASSI	GNED				SPEC. Y	EAR	- 2003
PURPOSE - SOII	SURVE	Y SAMPLE				SUPPLIE	R ID.	- 1
SPEC. REMARKS - NO S	SPECIFI	CATION CHE	CK			COUNTY/	STATE	- 71
SUPPLIER NAME - STAT						DISTRIC		
NAME OF PROJECT - BE		ICH-NORTH	(S)					
PROJECT ENGINEER - NO								
PIT/QUARRY - ARKANS								
LOCATION - VAN BU		איזוויי				DATE SA	MPTÆD	- 05/22/13
SAMPLED BY - D.DICKI		01111						- 05/28/13
SAMPLE FROM - TEST H								- 06/12/13
MATERIAL DESC SOI		7V - P WA	LIE DAW	F!MT	NT SOUNDING			00/ ==/ ==
MATERIAL DESC SOI	n Bokvi	I - K VA	DOE- FAV					
LAB NUMBER	-	20132513		-	20132514		2013	2515
SAMPLE ID	-	S1016			S1017		- S101	
TEST STATUS	-	INFORMATI	ON ONLY	-	INFORMATIO	ON ONLY	- INFO	RMATION ONLY
STATION	_	734+00		-	734+00		734+	00
LOCATION	-	18'LT		-	25'LT		_ 35'L	T
DEPTH IN FEET	_	0-3Z		-	0-3Z		0-4Z	
MAT'L COLOR	_	BROWN		_	BROWN		_ BROW	N
MAT'L TYPE	-			_			_	
LATITUDE DEG-MIN-S	SEC -	35 30	42.50	_	35 30	42.40	_ 35	30 42.30
LONGITUDE DEG-MIN-S		92 25	55.60		92 25	55.70	92	25 55.80
% PASSING 2	IN			-			-	
1 1/2				77				
·	IN			20 20	100		100	
· · · · · · · · · · · · · · · · · · ·	IN	91		20	97		97	
NO.	4 -	81		-	90		87	
NO.	10 -	69		-	80		_ 75	
NO.	40 -	59		-	75		_ 68	
NO.	80 -	51		-	58		- 54	
NO.	200 -	39			32		31	
LIQUID LIMIT	_	21		-	ND		- ND	
PLASTICITY INDEX	_						- NP	
AASHTO SOIL	_	A-4(0)		-			A-2	-4(0)
UNIFIED SOIL	_	11 1(0)		_			⊕ :	(, ,
% MOISTURE CONTENT		8.9		-	7.9		-	5.4
* MOISTURE CONTENT	_							3, 1
ACHMSC	(IN) -	9.5W		-	4.25			
ACHMBC	(IN) -	3.5W		-			-	*** :
AGG.BASE CRS.CL-7	(IN) _	12.0		_	10.0		_ =	
	-			_			.=	
	-			_			=	
	-			_			~	
	=			-			e m	
	-			-			=	
				_			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN	Y SAMPI CATION ICH-NOR			SPEC. SUPPLI	AL YEZ ER /S]	CODE - SSRVPS AR - 2003 ID 1 CATE - 71				
LOCATION - VAN E SAMPLED BY - D.DICH SAMPLE FROM - TEST MATERIAL DESC SO	LUE- PAV	EME	ENT SOUND	DATE F	EC:	PLED - 05/22/1 BIVED - 05/28/1 FED - 06/12/1	.3			
LAB NUMBER SAMPLE ID TEST STATUS		201325 S1019		ON ONLY	=	2013251 S1020		-	20132518 S1021 INFORMATION ON	IT.V
STATION LOCATION DEPTH IN FEET	- -	742+00 6'RT 0-5)	ON ONLI	-	742+00 15'RT 0-5	IION ONLI		742+00 25'RT 0-5	
MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-		35		47.20	-		0 47.30	•	BROWN 35 30 47.40	
LONGITUDE DEG-MIN-		92	26	4.70		92 2	6 4.70		92 26 4.60	0
3/4 3/8 NO. NO. NO.	IN IN IN 10 - 40 -	100 99 94 85 76 72 66				100 97 90 84 77 68			100 97 97 96 91 87 83 69	
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL MOISTURE CONTENT	- - -	8 A-4 ()			-	9 A-4(4)			6 A-4(2)	
ACHMSC ACHMBC AGG.BASE CRS.CL-7	(IN) - (IN) - (IN) - - - - -	6.7 5.0 12.	W			5.25W 11.0				
	_				_			_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

	2011	,							
DATE - 06/	13/13					SEQUENCE	NO	30	
JOB NUMBER - 080	423					MATERIAL	CODE -	SSRVPS	
FEDERAL AID NO TO	BE ASSI	GNED				SPEC. YE	AR -	2003	
PURPOSE - SOI	L SURVE	Y SAMPLE				SUPPLIER	ID	1	
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 71									
SUPPLIER NAME - STA	TE					DISTRICT	NO	08	
NAME OF PROJECT - B	EE BRAN	CH-NORTH	(S)						
PROJECT ENGINEER - N	OT APPI	ICABLE							
PIT/QUARRY - ARKAN	SAS								
LOCATION - VAN B	UREN CO	UNTY				DATE SAM	IPLED -	- 05/22/13	
SAMPLED BY - D.DICK	ERSON							05/28/13	
SAMPLE FROM - TEST	HOLE							06/12/13	
MATERIAL DESC SOI		EY - R VA	LUE- PAV	EME	NT SOUNDIN			,	
LAB NUMBER	-	20132519			20132520		201325	521	
SAMPLE ID	-	S1022			S1023		S1024		
TEST STATUS	-	INFORMAT	ION ONLY	-	INFORMATI	ON ONLY -		MATION ONLY	
STATION	-	750+00		-	750+00	-	750+00	ס	
LOCATION	-	18'LT		-	25'LT	_	35'LT		
DEPTH IN FEET	-	0-5		_	0-5		0-5		
MAT'L COLOR	_	BROWN		_	BROWN	_	BROWN		
MAT'L TYPE	-			_		_			
LATITUDE DEG-MIN-	SEC -	35 30	51.10	_	35 30	51.00 -	35	30 50.90	
LONGITUDE DEG-MIN-	SEC -	92 26	13.00		92 26	13.10	92	26 13.20	
a programa									
% PASSING 2	IN			-		-			
	IN			_	100		100		
	IN			-	100	_	100		
	IN	100		1	99	_	98		
•	4 -	96		-	94	_	93		
NO.		87		-	82	_	84		
NO.		79			63	-	74		
NO.		76		-	61	-	72		
NO.	200 -	73			56		70		
LIOUID LIMIT	_	27		- 2	23	_	27		
PLASTICITY INDEX	_	13		-	8	_	9		
AASHTO SOIL	_	A-6(7)		-	A-4(2)	-	A-4 (4)	
UNIFIED SOIL	_	A-0(//		-	11 1(2)	-		-/	
		7.7		-	10.4	-	o	.5	
% MOISTURE CONTENT	_	/ . /			10.4		Ü		
ACHMSC	(IN) -	6.0WX		-	3.25			-	
ACHMSC	(IN) -	7.0WX		-				(-)	
AGG.BASE CRS.CL-7	(IN) -	6.0		-	10.0			-	
				-			- 00		
	_			_			-		
				_			20		
	200 200			_			=:		
	-			_			-0;		
	-			-			70		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/	13/13			SEQUENCE	NO 31
JOB NUMBER - 080	423			MATERIAL	CODE - SSRVPS
FEDERAL AID NO TO	BE ASSI	GNED		SPEC. YEA	AR - 2003
PURPOSE - SOI	L SURVE	Y SAMPLE		SUPPLIER	ID 1
SPEC. REMARKS - NO					TATE - 71
SUPPLIER NAME - STA					NO 08
NAME OF PROJECT - B		CH-NORTH (S)			
PROJECT ENGINEER - N					
PIT/QUARRY - ARKAN		20.22			
LOCATION - VAN B		VTVATI		DATE SAM	PLED - 05/22/13
SAMPLED BY - D.DICK		01123			EIVED - 05/28/13
SAMPLE FROM - TEST					TED - 06/12/13
MATERIAL DESC SOI		ימם בחוומנים ב עי	JEMENT SOUNDIN		30, 11, 10
MATERIAL DESC SOI	.u SUKVI	SI - K VALIOE- FA			
LAB NUMBER	-	20132522	- 20132523	-	20132524
SAMPLE ID	_	S1025	_ S1026		S1027
TEST STATUS	-	INFORMATION ONLY	- INFORMATI	ON ONLY -	INFORMATION ONLY
STATION	-	758+00	758+00	-	758+00
LOCATION	-	6'RT	_ 15'RT	-	25'RT
DEPTH IN FEET	_	0-5	- 0-5	_	0-5
MAT'L COLOR	_	BROWN	BROWN	_	BROWN
MAT'L TYPE	_		_	_	
LATITUDE DEG-MIN-	SEC -	35 30 58.00	- 35 30	58.00 -	35 30 58.00
LONGITUDE DEG-MIN-		92 26 17.80	92 26	17.70	92 26 17.60
% PASSING 2			-	-	
•	IN			_	
	IN		100	-	100
	IN	98	99	_	97
NO.	4 -	90	91	_	89
NO.		77	82	_	80
NO.	40 -	61	- 71	-	71
NO.		57	<u> </u>	_	68
NO.	200 -	54	66		65
LIQUID LIMIT	_	24	- 27	_	26
PLASTICITY INDEX	_	7	- 10	-	7
AASHTO SOIL	_	A-4(1)	- A-4(4)	-	A-4(2)
UNIFIED SOIL	_		-	-	
% MOISTURE CONTENT		11.9	- 19.6	-	11.4
* MOISTORE CONTENT					
ACHMSC	(IN) -	6.0W	- 4.5W	-	
ACHMBC	(IN) -	8.0W		_	
AGG.BASE CRS.CL-7	(IN) -	11.0	= 10.0	_	~===
	_		-	_	
	_			_	
	-		=	-	
	-		? ≅	-	
	-		: 	-	
			17.000	_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/3 JOB NUMBER - 0804 FEDERAL AID NO TO H PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - BI PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - VAN BI SAMPLED BY - D.DICK SAMPLE FROM - TEST I MATERIAL DESC SOI	MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAM DATE RECI DATE TEST	AR - 2003 ID 1 PATE - 71 NO 08 PLED - 05/22/13 EIVED - 05/28/13				
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-S LONGITUDE DEG-MIN-S * PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	- 20 - S: - II - 76 - 18 - 0 BI - SEC - IN IN IN IN 1N 4 - 10 - 40 -	0132525 1028 NFORMATION ONL 56+00 8'LT -5 ROWN 35 31 5.70 92 26 19.30 100 98 94 87 79 76 68	-	20132526 S1029	-	20132527 \$1030 INFORMATION ONLY 766+00 35'LT 0-5 BROWN 35 31 5.70 92 26 19.50 100 96 88 80 69 60 53
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC AGG.BASE CRS.CL-7	-	27 10 A-4(4) 17.7 5.0W 8.0W 4.0	-	23 8 A-4(1) 16.5 4.0		25 7 A-4(1) 16.4

REMARKS W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

	* POIT	SURVEY /	PAVEMENT	50	UNDING TES.	I REPORT "		
JOB NUMBER - 080 FEDERAL AID NO TO	BE ASSI L SURVE SPECIFI ATE BEE BRAN HOT APPI HSAS	Y SAMPLE CATION CE ICH-NORTH LICABLE	IECK			MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT	NO 3 CODE - S AR - 2 ID 1 TATE - 7 NO 0	SRVPS 003 1 18
SAMPLED BY - D.DICE							EIVED - C	
SAMPLE FROM - TEST MATERIAL DESC SO		PV - P 177	אז.וופר באזו.	c M E	מדרותווסם יינואי	DATE TES	TED - C	6/12/13
LAB NUMBER SAMPLE ID	-				20132529 S1032		20132530 S1033	1
TEST STATUS	_		ION ONLY		INFORMATIO			TION ONLY
STATION	_			-	774+00	-	774+00	
LOCATION	_	6'RT		$\overline{}$	15'RT	-	25'RT	
DEPTH IN FEET	-	• -		2	0-4Z	=	0 - 4 Z	
MAT'L COLOR MAT'L TYPE	-	BROWN		-	BROWN	-	BROWN	
LATITUDE DEG-MIN-	SEC -			T.				13.60
LONGITUDE DEG-MIN-	-SEC -	92 26	19.60		92 26	19.40	92 26	19.30
% PASSING 2	IN			=		-		
-	! IN			-		-		
•	IN	400		2	100	-	100	
•	3 IN 4 -			-	99 96	-	96	
	10 -			~	88	-	89	
· -	40 -	86		770	79	- 5	80	
NO.		84		2		=	68	
	200 -	79			71		57	
LIQUID LIMIT	_	27		-	30		24	
PLASTICITY INDEX	_			-	10	=	7	
AASHTO SOIL	-	A-6(7)		770	A-4(5)	-	A-4(1)	
UNIFIED SOIL	-			_		-		
% MOISTURE CONTENT		19.9			17.9		13.4	
ACHMSC	(IN) -	12.0W		-	7.0WX	_		
ACHMBC	(IN) -	7.5W		_	9.0W	_		
AGG.BASE CRS.CL-7	(IN) -	10.0		-	11.0	-		
	-			-		1-	•	
				-		-		
	-			_		_	•	
	-			_		-		
				_		_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

		,						
DATE - 06/	13/13						NO 34	
JOB NUMBER - 080	423					MATERIAL	CODE - SSRV	PS
FEDERAL AID NO TO	BE ASSI	GNED				SPEC. YEA	AR - 2003	
PURPOSE - SOI	L SURVE	Y SAMPLE				SUPPLIER	ID 1	
SPEC. REMARKS - NO	SPECIFI	CATION CHE	ECK			COUNTY/ST	TATE - 71	
SUPPLIER NAME - STA						DISTRICT	NO 08	
NAME OF PROJECT - B	EE BRAN	CH-NORTH	(S)					
PROJECT ENGINEER - N	OT APPL	ICABLE						
PIT/QUARRY - ARKAN	SAS							
LOCATION - VAN B	UREN CO	UNTY					PLED - 05/2	
SAMPLED BY - D.DICK	ERSON					DATE REC	EIVED - 05/2	-
SAMPLE FROM - TEST	HOLE					DATE TES	TED - 06/1	2/13
MATERIAL DESC SOI	L SURVE	Y - R VA	LUE- PAV	EME	NT SOUNDIN	IGS		
LAB NUMBER	-	20132531		-	20132532	-	20132533	
SAMPLE ID	_	S1034		20	S1035	-	S1036	
TEST STATUS	_		ON ONLY			ON ONLY -	INFORMATION	ONLY
STATION	_	782+00			782+00	_	782+00	
LOCATION		12'LT		-	27'LT	-	40'LT	
DEPTH IN FEET		0-5		-	0-5	-	0-5	
MAT'L COLOR		BROWN		-	BROWN	-	BROWN	
MAT'L TYPE	_	BROWN		2		-		
LATITUDE DEG-MIN-	SEC -	35 31	21.50	2	35 31	21.50 -	35 31 23	L.50
LONGITUDE DEG-MIN-	SEC -	92 26	20.60		92 26	20.60	92 26 2	08.0
% PASSING 2				-				
1 1/2	IN			-		=		
3/4	IN	100		-		12		
3/8	IN	98		-	100	_	100	
NO.	4 -	88		_	92		92	
NO.	10 -	73		_	77	=	85	
NO.	40 -	55		_	62	-	74	
NO.	80 -	48		-	53	-	69	
NO.	200 -	40			41		58	
LIQUID LIMIT	_	22		-	23	30	24	
PLASTICITY INDEX	_	5		-	5	-	8	
AASHTO SOIL	-	A-4(0)		-	A-4(0)	=	A-4(2)	
UNIFIED SOIL	-			-		=		
% MOISTURE CONTENT	-	14.4		-	13.8	_	15.3	
ACHMSC	(IN) -	12.0W		_	4.5	_		
AGG.BASE CRS.CL-7	(IN) -	12.0		-	12.0	_		
	_		2	-		-		
	-			-		-		
	-			-		_		
	-			-		-		
	_			_		_		
	_			_		_		
						_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN E SAMPLED BY - D.DICK SAMPLE FROM - TEST	MATERIAL SPEC. YE SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC DATE TES	SEQUENCE NO 35 MATERIAL CODE - SSRVPS SPEC. YEAR - 2003 SUPPLIER ID 1 COUNTY/STATE - 71 DISTRICT NO 08 DATE SAMPLED - 05/22/13 DATE RECEIVED - 05/28/13 DATE TESTED - 06/12/13 IGS						
MATERIAL DESC SO	IL SURV	EY - R	VALUE-	PAVEME	ENT SOUNDI	NGS		
LAB NUMBER	-	201325	34		20132535	300	20132536	
SAMPLE ID	_	S1037	AMITON O		S1038	ON ONLY -	S1039 INFORMAT	TON ONLY
TEST STATUS STATION	_				790+00	TON ONLY	790+00	TON ONTI
LOCATION	_	6'RT		-	750+00 25'RT	*	35'RT	
DEPTH IN FEET	_	0-5		-	0-5	-	0-5	
MAT'L COLOR	_	BROWN		_	BROWN	**	BROWN	
MAT'L TYPE	-			_		-		
LATITUDE DEG-MIN-			31 29.4			29.50 -		29.50
LONGITUDE DEG-MIN-	·SEC -	92	26 22.9	90	92 26	22.80	92 26	22.70
% PASSING 2	IN			_		=		
·	IN			-		920		
•	IN -	100		_		-	100	
	BIN	99		_	100	======================================	99	
	4 -	97		-	97	=	89	
NO.		93		-	91 82	**	76 63	
NO.		87 85		-	80	(7)	58	
	200 -	83		_	77	_	51	
							27	
LIQUID LIMIT	-	38 21		_	34 19	_	27 12	
PLASTICITY INDEX AASHTO SOIL	_	A-6(1	7)	_	A-6(13)	-	A-6(3)	
UNIFIED SOIL	_	A-0 (1	- / /	-	A 0(15)	-	A 0 (3)	
% MOISTURE CONTENT		16.	. 8	-	15.5	-	21.5	
ACHMSC	(IN) -	6.75	5 TAT	_	6.0WX	_		
ACHMBC	(IN) -	9.0		_	0.0W2k	_		
AGG. BASE CRS.CL-7	(IN) -	10.0		-				
	· · · -			-		-		
	_			_		_		
	-			_		-		
	-			-		-		
	-			-		_		
	-			-		_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

DATE - 06/3	13/13					SEQUENCE	NO 3	6
JOB NUMBER - 0804	423					MATERIAL	CODE - S	SRVPS
FEDERAL AID NO TO	BE ASSI	GNED				SPEC. YE	AR - 2	003
PURPOSE - SOII				SUPPLIER ID 1				
SPEC. REMARKS - NO	SPECIFI	CATION CHE	ECK			COUNTY/S	TATE - 7	1
SUPPLIER NAME - STA	ГE							8
NAME OF PROJECT - B		CH-NORTH	(S)					
PROJECT ENGINEER - NO								
PIT/QUARRY - ARKAN								
LOCATION - VAN B		UNTY				DATE SAI	MPLED - 0	5/22/13
SAMPLED BY - D.DICK							CEIVED - 0	
SAMPLE FROM - TEST						DATE TE		6/12/13
MATERIAL DESC SOI		CV - R VA	TIE- PAVI	EME	NT SOUNDIN			
LAB NUMBER	-	20132537			20132538		20132539	
SAMPLE ID	-	S1040			S1041		S1042	
TEST STATUS	-	INFORMATI	ON ONLY		INFORMATIO			ION ONLY
STATION	-	798+00		-	798+00	(A	798+00	
LOCATION		15'LT		_	25'LT	_	35'LT	
DEPTH IN FEET	-	0-5		_	9-50.32	_	0-5	
MAT'L COLOR	-	RD/BR		_	BROWN	1. -	BROWN	
MAT'L TYPE	-			_		02		
LATITUDE DEG-MIN-	SEC -	35 31	36.20	-	35 31			36.10
LONGITUDE DEG-MIN-	SEC -	92 26	27.50		92 26	27.60	92 26	27.80
% PASSING 2	IN			_		-		
	IN			-		-		
	IN	100		-	100	-	100	
	IN	98		-	99	-	97	
•	4 -	92		-	94	-	82	
NO.		81		-	79		65	
NO.		73		_	57		55	
NO.	80 -	69		_	48	-	50	
-	200 -	50			38		30	
	_ • •						2.0	
LIQUID LIMIT	-	20					20 3	
PLASTICITY INDEX	-	7		-				
AASHTO SOIL	-	A-4(0)		_	A-4(0)		A-2-4())
UNIFIED SOIL	-			-				
% MOISTURE CONTENT	-	13.9			4.3		8.1	
ACHMSC	(IN) -	6.0W		-	2.5			
ACHMBC	(IN) -	9.0W		-				
AGG. BASE CRS.CL-7	(IN) -	10.0		-	12.0			
	705			_			_ _	
	155 152			_			_	
	-			_			_	
	100			-			_	
	-			-			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN	423 BE ASSI L SURVE SPECIFI TE BEE BRAN HOT APPL	Y SAMPLE CATION CHE CH-NORTH LCABLE				SEQUENCE MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT	CODE - AR - ID IATE - NO	SSRVPS 2003 1 71 08
LOCATION - VAN BUREN COUNTY SAMPLED BY - D.DICKERSON DATE SAMPLED - 05/22/1 SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS DATE SAMPLED - 05/28/1 DATE TESTED - 06/12/1								
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2		806+00 15'RT 0-5 BROWN	CON ONLY	-	806+00 25'RT 0-5 RD/BR	CON ONLY	INFORMA 806+00 36'RT 0-5 BROWN	2 TION ONLY 1 43.70 6 30.70
3/4	IN IN IN 10 - 40 - 80 -	100 92 82 72 69 57			100 95 86 78 64 46	- - - - -	100 95 90 81 75 68 56	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	25 8 A-4(2)			18 5 A-4(0)	-	26 11 A-6(3)	
ACHMSC ACHMBC AGG. BASE CRS.CL-7	(IN) - (IN) - (IN) - - - - -	4.0W 14.0W 10.0			2.25	- - - - - - -	 	35

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

			,					
DATE - 06/	18/13					SEQUENCE	NO 3	8
JOB NUMBER - 080	423					MATERIAL	CODE - S	SRVPS
FEDERAL AID NO TO	BE ASS	GNED				SPEC. YE	AR - 2	003
PURPOSE - SOI	L SURVE	EY SAMPI	ĿΕ			SUPPLIER	ID 1	
SPEC. REMARKS - NO	SPECIF	CATION	CHECK			COUNTY/S	rate - 7	1
SUPPLIER NAME - STA	ATE						NO 0	
NAME OF PROJECT - F	BEE BRAI	NCH-NORT	TH (S)					
PROJECT ENGINEER - 1	OT APPI	LICABLE						
PIT/QUARRY - ARKAN	ISAS							
LOCATION - VAN E	BUREN CO	YTNUC				DATE SAM	PLED - 0	5/22/13
SAMPLED BY - D.DIC	KERSON						EIVED - 0	
SAMPLE FROM - TEST	HOLE						TED - 0	
MATERIAL DESC SO		EY - R	VALUE- 1	PAVEME	NT SOUNDI			
LAB NUMBER		201325	343		20132544		20132545	
SAMPLE ID	-				S1047		S1048	
TEST STATUS	-					ON ONLY -		TON ONLY
STATION		814+00	•	=======================================	814+00	_	814+00	
LOCATION		15'LT		373 3 <u>44</u>	25'LT	_	35'LT	
DEPTH IN FEET	-	0-5		-	0-5	_	0-5	
MAT'L COLOR	-	BROWN		1, 10	BROWN	-	BROWN	
MAT'L TYPE	-			-		_		
LATITUDE DEG-MIN-			31 51.10			51.00 -	35 31	
LONGITUDE DEG-MIN-	-SEC -	92	26 34.0	0	92 26	34.20	92 26	34.40
% PASSING 2	IN			_		_		
	2 IN			_		-		
	IN	100		_	100	-	100	
-	3 IN	99		-	99	-	82	
·	4 -	91		-	94	-	68	
NO.		81		-	84		56	
NO.		72		_	74	_	48	
NO.	-	68		_	69	_	45	
	200 -	60			60		40	
LIQUID LIMIT	-	30		25	30	-	29	
PLASTICITY INDEX	-			(-	13	-	_~	
AASHTO SOIL	-	A-6(5)	-	A-6(5)	-	A-6(1)	
UNIFIED SOIL	_					-		
% MOISTURE CONTENT	- 1	14	.1		13.5		11.9	
ACHMSC	(IN) -	7.0	W	-	4.0	-		
ACHMBC	(IN) -	8.0	W	-		-		
AGG. BASE CRS.CL-7	(IN) -	12.	0	-	12.0	-		
	=			-		-		
	7			_		-		
	_			_		_		
	_			_		_		
	-			_		-		
						_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/3 JOB NUMBER - 0804 FEDERAL AID NO TO 1 PURPOSE - SOI3 SPEC. REMARKS - NO 3 SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - NO PIT/QUARRY - ARKAN LOCATION - VAN B	Y SAMPI CATION ICH-NOR ICABLE				MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC	L E# R ST	ID 1 TATE - 71			
SAMPLED BY - D.DICKERSON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SURVEY - R VALUE- PAVEMENT SOUNDIN								DATE RECEIVED - 05/28/13 DATE TESTED - 06/12/13		
MATERIAL DESC SOI	L SURVI	5Y - R	. VA	LUE- PAV.	FIME	ENT SOUND	IINGS			
LAB NUMBER	-	20132	546		-	2013254	7	-	20132548	
SAMPLE ID	-	S1049			•	S1050		_	S1051	
TEST STATUS	_	INFOR	TAM	ON ONLY	_	INFORMA	TION ONLY	-	INFORMATION ONLY	
STATION	_	822+0	0			822+00		-	822+00	
LOCATION	_	15'LT			3.7	25'LT		-	35'LT	
DEPTH IN FEET	_	0-5			-	0-5		_	0-5	
MAT'L COLOR	-	BROWN			-	BROWN		_	BROWN	
MAT'L TYPE	-				-			-	21 50 00	
LATITUDE DEG-MIN-		35		59.10	-		1 59.10	-	35 31 59.00	
LONGITUDE DEG-MIN-	SEC -	92	26	34.70		92 2	6 35.10		92 26 35.20	
% PASSING 2	IN -				_			-		
1 1/2	IN				-			-		
· · · · · · · · · · · · · · · · · · ·	IN	100			-	100		-	100	
•	IN	98			-	97		_	89	
NO.	4 -	93			-	93		-	82	
NO.	10 -	85			_	89		_	73	
NO.		79			_	85		_	66	
NO.	80 -	70			-	76		-	59	
	200 -	57				60			50	
LIQUID LIMIT	-	34			-	31		-	28	
PLASTICITY INDEX	-	20			-	17		-	12	
AASHTO SOIL	-	A-6(8)		-	A-6(7)	ı	-	A-6(3)	
UNIFIED SOIL	-				_			-		
% MOISTURE CONTENT	-	16	.2		-	18.4	<u> </u>	272	14.7	
ACHMSC	(IN) -	15.	5₩		-	2.0		-		
AGG. BASE CRS.CL-7	(IN) -	14	0		-	14.0				
	-				-			-		
	-				-					
	-				_			=		
	_				_			_		
	_				_			=		
	-				_			-		
	_				_			_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

	BOIL BORVET / FAVE	MENI BOONDING TEST RE	IORI
SPEC. REMARKS - NO SUPPLIER NAME - STATE NAME OF PROJECT - BUT PROJECT ENGINEER - NO PIT/QUARRY - ARKAN	423 BE ASSIGNED L SURVEY SAMPLE SPECIFICATION CHECK TE EE BRANCH-NORTH (S) OT APPLICABLE SAS UREN COUNTY ERSON HOLE	MA SP SU CO DI DA DA	QUENCE NO 40 TERIAL CODE - SSRVPS EC. YEAR - 2003 PPLIER ID 1 UNTY/STATE - 71 STRICT NO 08 ATE SAMPLED - 05/22/13 ATE RECEIVED - 05/28/13 ATE TESTED - 06/12/13
3/4 3/8 NO. NO. NO.	- 830+00 - 15'RT - 0-5 - RD/BR - SEC - 35 31 6 SEC - 92 26 36 IN IN IN IN 100 IN 95 4 - 87	- 830+00 - 25'RT - 0-5 - RD/BR - .90 - 35 31 6.	- 20132551 - S1054 ONLY - INFORMATION ONLY - 830+00 - 35'RT - 0-5 - RD/BR - 90 - 35 31 7.00 92 26 36.00 - - - 100 - 98 - 94 - 89 - 89 - 81 - 67 40
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL * MOISTURE CONTENT ACHMSC ACHMBC AGG.BASE CRS.CL-7	- 21 - 5 - A-4(0) - 10.1 (IN) - 7.5W (IN) - 8.0W (IN) - 12.0	- 25 - 10 - A-4(1) - 12.2 - 7.5WX - 10.0	- 24 - 10 - A-4(1) - 16.8

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/21/13 SEQUENCE NO 41 JOB NUMBER - 080423 MATERIAL CODE - SSRVPS FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2003 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 71 SUPPLIER NAME - STATE DISTRICT NO 08 NAME OF PROJECT - BEE BRANCH-NORTH (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - VAN BUREN COUNTY DATE SAMPLED - 05/22/1: SAMPLED BY - D.DICKERSON DATE RECEIVED - 05/28/1: SAMPLE FROM - TEST HOLE DATE TESTED - 06/12/1: MATERIAL DESC SOIL SURVEY - R VALUE - PAVEMENT SOUNDINGS LAB NUMBER - 20132552 - 20132553 - 20132554								
	_				_	20122554		
	_			S1056		20132554 S1057		
SAMPLE ID TEST STATUS	-	S1055				INFORMATION ONLY		
STATION	_			838+00		838+00		
LOCATION		6'LT	_	15'LT	-	25'LT		
DEPTH IN FEET	_		-	0-5	_	0-5		
MAT'L COLOR		BROWN	*	BROWN	-	BROWN		
MAT'L COLOR MAT'L TYPE	_	BROWN	-	Ditgnit	_			
LATITUDE DEG-MIN-SE	C -	35 32 14.50	-	35 32 14.40	_	35 32 14.30		
LONGITUDE DEG-MIN-SE		92 26 39.10		92 26 39.20		92 26 39.30		
	N		200	100				
1 1/2 1			-	100	-	100		
3/4 I		100	-	94	-	100 99		
3/8 I		95	-	68 57		93		
- 13/	4 -	81	-	51	-	81		
	.0 –	63 50	-	46	-	65		
			-	43	-	56		
NO. 8 NO. 20	0 -	45 34	-	34	==	44		
NO. 20	-	34		24		11		
LIQUID LIMIT	-	23	177	28	-	23		
PLASTICITY INDEX	_	9	-	13	-	6		
AASHTO SOIL	-	A-2-4(0)	-	A 2 0 (0)	_	A-4(0)		
UNIFIED SOIL	-		-		_			
% MOISTURE CONTENT	-	15.3		12.5		17.3		
ACHMSC (IN) -	6.75WX	_	6.0WX	-			
	IN) -	7.0W	-		-			
AGG. BASE CRS.CL-7 (IN) -	12.0	-	12.0	-			
			-		-			
			_		_			
	-		_		_			
	₹//		-		-			
	20		-		-			
	=		-		-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

			, -						
	21/13						SEQUENCE		
JOB NUMBER - 080							MATERIAL	CODE =	SSRVPS
FEDERAL AID NO TO							SPEC. YE	AR -	2003
PURPOSE - SOI							SUPPLIER		1
SPEC. REMARKS - NO		CATION	CHE	CK			COUNTY/S		71
SUPPLIER NAME - STA				\			DISTRICT	NO.	08
NAME OF PROJECT - H			CH (S)					
PROJECT ENGINEER - 1		LICABLE							
PIT/QUARRY - ARKAN		NT TATITUS E					DAGE 634	DI DD	05/00/11
LOCATION - VAN E	BUREN CO	UNII							05/22/13 05/28/13
SAMPLE FROM - TEST	_								06/12/13
MATERIAL DESC SO		ZV - 12	7/21	TIE- DAV	F!MT	NT SOUNDE		TED	00/12/13
	II DOKV								
LAB NUMBER	_	201325	55			20132556		201325	57
SAMPLE ID		S1058				S1059		S1060	AMTON ONLY
TEST STATUS	-			ON ONLY			ON ONLY -	846+00	ATTON ONLY
STATION LOCATION	-	010.00)		-	846+00 25'RT	_	36'RT	
DEPTH IN FEET		18'RT 0-5			90	0-5	-	0-5	
		BROWN			**	BROWN	-	BROWN	
MAT'L COLOR MAT'L TYPE	_	DROWN			=	ВКОМИ	_	BROWN	
LATITUDE DEG-MIN-	-SEC -			22.10	_	35 32	22.10 -		32 22.20
LONGITUDE DEG-MIN-	-SEC -	92	26	41.30		92 26	41.30	92 :	26 41.20
% PASSING 2	IN				-		_		
1 1/2	2 IN				\overline{a}	100	-		
3/4	IN	100			12	98	-	100	
3/8	3 IN	98			-	95	-	98	
NO.	4 -	93				87	_	90	
NO.		88			=	77	_	83	
NO.		83			-	67	-	75	
NO.		79			-	62	-	69	
NO.	200 -	72				55		64	
LIQUID LIMIT	-	33			=	26	-	25	
PLASTICITY INDEX	-	17			=		-	10	
AASHTO SOIL	-	A-6(1	10)		=	A-6(3)	_	A-4 (4)
UNIFIED SOIL	_				-		_		
% MOISTURE CONTENT		27				22.1		18.	1
ACHMSC	(IN) -	7.5			-	6.0WX	-		
ACHMBC	(IN) -	8.01							
AGG. BASE CRS.CL-7	(IN) -	10.	O		-	10.0	_	I	
	_				-		-		
	-				-		-		
	-				-		_		
	_				-		_		
	-				_		-		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

	5014	,			0.11.0 1.00			
DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B	423 BE ASSION SURVE SPECIFION TE EE BRANOT APPLOSAS	Y SAMPLE CATION CH CH-NORTH ICABLE	ECK			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT	ID 1 FATE - 7 NO 0	SRVPS 003 1 8
SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	ERSON HOLE		ALUE - PAV	EME	ENT SOUNDIN	DATE REC	PLED - 0 EIVED - 0 TED - 0	5/28/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- \$ PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.	SEC - IN - IN - IN - IN - 10 - 40 -	20132558 S1061 INFORMAT 854+00 6'LT 0-5 BR/RD	ION ONLY		20132559 \$1062 INFORMATION 854+00 15'LT 0-5 BR/RD	- ON ONLY - - - - - 29.30 -	854+00 25'LT 0-5 BR/RD 35 32 92 26 100 97 89 83 77	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC AGG. BASE CRS.CL-7	(IN) - (IN)	23 10 A-4(2) 14.0 6.5W 8.0W 12.0			23 9 A-4(1) 15.8 7.0W 13.0		23 4 A-4(0) 10.3	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

	DOIL DOR	VIII / INVENDENT	DOONDING 1115	I KEIOKI	
SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - E PROJECT ENGINEER - N PIT/QUARRY - ARKAN	423 BE ASSIGNED L SURVEY SOUTH TE EE BRANCH-OT APPLICA SAS UREN COUNT ERSON HOLE	AMPLE ION CHECK NORTH (S) BLE	EMENT SOUNDIN	SPEC. YEAR SUPPLIER I COUNTY/STA DISTRICT N DATE SAMPI DATE RECEI DATE TESTE	ODE - SSRVPS - 2003 D 1 TE - 71 O 08 AED - 05/22/13 EVED - 05/28/13
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2	- 203 - S16 - IN1 - 863 - 18 - 0-9 - BR6 -	132561 064 FORMATION ONLY 2+00 'RT	- 20132562 - S1065 - INFORMATION 862+00 - 25'RT - 0-5 - BROWN	- 2 - 5 ON ONLY - 1 - 8 - 3 - 0 - 1	20132563 31066 INFORMATION ONLY 362+00 35'RT 0-5 BROWN 35 32 37.30 92 26 46.30
3/4 3/8 NO. NO. NO.	IN 10 IN 9 4 - 9 10 - 4 40 - 9	00 97 90 83 77 52	- 100 - 97 - 92 - 86 - 81 - 60 38	3 2 6 8 3 3 6	100 97 86 76 69 61 42
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC ACHMBC	-		- ND - NP - A-4(0) - 11.5 - 5.25W	- - - - - - - - - - - - - - - - - - -	22 5 A-4(0) 12.1
AGG. BASE CRS.CL-7	(IN) - - - - - -	8.0	10.0		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

DATE - 06/21/13 JOB NUMBER - 080423 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - BEE BRANCH-NORTH (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS						SEQUENCE MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT	CODE - S AR - 2 ID 1 TATE - 7 NO 0	003 1 8
LOCATION - VAN E SAMPLED BY - D.DICE SAMPLE FROM - TEST MATERIAL DESC SOI	CERSON HOLE		LUE- PAVI	EME	ENT SOUNDIN	DATE REC	PLED - 0 EIVED - 0 TED - 0	
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- % PASSING 2 1 1/2 3/4 3/8	SEC - IN IN	20132564 S1067 INFORMATI 870+00 6'LT 0-5 RD/BR 35 32 92 26	ON ONLY	<u>2</u>	20132565 S1068 INFORMATI 870+00 15'LT 0-5 BROWN 35 32 92 26	24	870+00 25'LT 0-5 BROWN	44.80 49.70
NO. NO. NO. NO.	40 - 80 -	90 81 75 58 40			86 75 65 54 38	- - -	83 77 74 69 46	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - -	19 5 A-4(0)		-	19 6 A-4(0) 16.0	- - - -	22 6 A-4(0) 16.1	
ACHMSC ACHMBC AGG. BASE CRS.CL-7	(IN) - (IN) - (IN) -	4.75W 7.25W 12.0			3.5 1.25 12.0	- - - - - -		*

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

77-7 7333-7 7 333	
DATE - 06/21/13	SEQUENCE NO 46
JOB NUMBER - 080423	MATERIAL CODE - SSRVPS
FEDERAL AID NO TO BE ASSIGNED	SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 71
SUPPLIER NAME - STATE	DISTRICT NO 08
NAME OF PROJECT - BEE BRANCH-NORTH (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - VAN BUREN COUNTY	DATE SAMPLED - 05/22/13
SAMPLED BY - D.DICKERSON	DATE RECEIVED - 05/28/13
SAMPLE FROM - TEST HOLE	DATE TESTED - 06/12/13
MATERIAL DESC SOIL SURVEY - R VALUE	
LAB NUMBER - 20132567	- 20132568 - 20132569
SAMPLE ID - S1070	_ S1071 _ S1072
	ONLY - INFORMATION ONLY - INFORMATION ONLY
STATION - 878+00	878+00 878+00
LOCATION - 15'RT	25'RT 35'RT
DEPTH IN FEET - 0-5	0-5
MAT'L COLOR - BROWN	BROWN BR/RD
MAT'L TYPE -	
LATITUDE DEG-MIN-SEC - 35 32 52	
LONGITUDE DEG-MIN-SEC - 92 26 52	2.40 92 26 52.30 92 26 52.20
% PASSING 2 IN	
1 1/2 IN	-
3/4 IN 100	- 100
3/8 IN 93	100 98
NO. 4 - 81	96 89
NO. 10 - 66	84 79
NO. 40 - 49	_ 69 _ 70
NO. 80 - 40	- 58 - 62
NO. 200 - 30	46 48
NO. 200 30	
LIQUID LIMIT - 21	- 22 - 24
PLASTICITY INDEX - 5	- 5 - 9
AASHTO SOIL - A-2-4(0)	- A-4(0) - A-4(1)
UNIFIED SOIL -	
% MOISTURE CONTENT - 4.5	13.7 9.8
ACHMSC (IN) - 2.5WX	- 2.5W
ACHMBC (IN) - 8.0WX	T
AGG. BASE CRS.CL-7 (IN) 12.0	10.0
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-	
-	#) = = = = = = = = = = = = = = = = = = =
- -	500)

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B SAMPLED BY - D.DICK	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPL SAS UREN CO	Y SAMPLE CATION CHECK CH-NORTH (S) ICABLE			MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAMI DATE RECE	ID 1 PATE - 71 NO 08 PLED - 05/22/13 EIVED - 05/28/13
SAMPLE FROM - TEST MATERIAL DESC SOI		TY - R VALUE-	- PAVEME	ENT SOUNDING	DATE TEST	TED - 06/12/13
	IVAÇE II.					
LAB NUMBER	=	20132570		20132571		20132572
SAMPLE ID	<u> </u>	S1073		S1074		S1075
TEST STATUS	-			1NFORMATIO		INFORMATION ONLY 886+00
STATION LOCATION	=	886+00 6'LT	-	886+00 15'LT	_	25'LT
DEPTH IN FEET	2	0-5	-	0-5	-	0-5
MAT'L COLOR		RD/BR	-	BROWN	-	BROWN
MAT'L TYPE	-	1127 211	_		_	
LATITUDE DEG-MIN-	SEC -	35 32 59	.50 –	35 32 5	9.40 -	35 32 59.40
LONGITUDE DEG-MIN-	SEC -	92 26 56	.10	92 26 9	56.30	92 26 56.40
3/4 3/8 NO. NO. NO. NO.	IN 4 - 10 - 40 -	100 98 91 83 76 69		100 99 93 82 70 63 48	1 1 (6 3 1 6 5 3 3	100 89 74 66 55 48 37
LIQUID LIMIT	-	18	-	23	_	22 3
PLASTICITY INDEX	-	4	±	9 A-4(1)	_	A-4(0)
AASHTO SOIL	-	A-4(0)	2		_	A-4(0)
UNIFIED SOIL % MOISTURE CONTENT	_	20.6	÷	17.5	-	9.0
ACHMSC ACHMBC	(IN) -	9.25WX 4.5W	_	2.75	_	
AGG. BASE CRS.CL-7	(IN) -	13.0	-	14.0	_	
AGG. DADE CKG.CE	(111)	13.0	-	14.0	-	
	_		-		-	
	-		_		_	
	_		_		_	
	-		-		-	
	_		_		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/21/13 JOB NUMBER - 080423 FEDERAL AID NO TO BE AS PURPOSE - SOIL SUR SPEC. REMARKS - NO SPECI SUPPLIER NAME - STATE NAME OF PROJECT - BEE BR PROJECT ENGINEER - NOT AP PIT/QUARRY - ARKANSAS LOCATION - VAN BUREN SAMPLED BY - D.DICKERSON SAMPLE FROM - TEST HOLE MATERIAL DESC SOIL SUR	SSIGNED RVEY SAMPLE IFICATION CHECK RANCH-NORTH (S) PPLICABLE COUNTY		SEQUENCE NO 48 MATERIAL CODE - SSRVPS SPEC. YEAR - 2003 SUPPLIER ID 1 COUNTY/STATE - 71 DISTRICT NO 08 DATE SAMPLED - 05/22/13 DATE RECEIVED - 05/28/13 DATE TESTED - 06/12/13 S
LAB NUMBER	20132573	20132574	- 20132575
	= S1076	= S1077	- S1078
			N ONLY - INFORMATION ONLY
	= 894+00	894+00	- 894+00
	- 15'RT	= 25'RT	- 35'RT
DEPTH IN FEET	- 0-5	0-4.5Z	- 0-4Z
	= GRAY	RD/BR	- RD/BR
MAT'L TYPE	**	-	-
LATITUDE DEG-MIN-SEC	35 33 7.40	35 33	7.40 - 35 33 7.40
LONGITUDE DEG-MIN-SEC			88.20 92 26 58.10
% PASSING 2 IN.		æ æ	=
1 1/2 IN.		-	- 100
3/4 IN. 3/8 IN.		100	100 93
		- 100 - 91	72
	- 84	80	= 72 60
NO. 10 NO. 40			50
		- 71 - 66	- 51
	- 60	50	36
NO. 200	- 47	50	36
LIQUID LIMIT	- 28	- 27	ND
PLASTICITY INDEX	- 15	= 14	- NP
AASHTO SOIL	- A-6(3)	A-6(3)	A-4(0)
UNIFIED SOIL	i w	•	-
% MOISTURE CONTENT	- 18.0	13.4	8.7
ACHMSC (IN)	- 7.OW	- 2.5X	
ACHMBC (IN)			= =====
AGG. BASE CRS.CL-7 (IN)		- 14.0	
	-	-	-
	=	-	
	<u> </u>	_	-
	#	_	
	=	_	₹
	3	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

		,						
	21/13						NO 45	
JOB NUMBER - 080423					MATERIAL CODE - SSRVPS			
FEDERAL AID NO TO						SPEC. YE	AR - 20	003
PURPOSE - SOI						SUPPLIER		
SPEC. REMARKS - NO		CATION C	CHEÇK				TATE - 7	
SUPPLIER NAME - STA			- (-)			DISTRICT	NO 0	3
NAME OF PROJECT - F			I (S)					
PROJECT ENGINEER - 1		LICABLE						
PIT/QUARRY - ARKAN								- 1 1
LOCATION - VAN E SAMPLED BY - D.DIC		DOWLA					IPLED - 05	
							EIVED - 05	
SAMPLE FROM - TEST MATERIAL DESC SO		- V D 1	TATITE DAY	TONE	NUT COLINIDA		TED - 06	0/12/13
	TH SOKAI	rt - K	VALUE- PAV	E-IAI	INI SOUNDII			
LAB NUMBER	-	2013257	6		20132577		20132578	
SAMPLE ID	_	S1079			S1080		S1081	
TEST STATUS	-		TION ONLY			ON ONLY -		CON ONLY
STATION		902+00		_	902+00	-	902+00	
LOCATION		15'LT		2	25'LT	2	35'LT	
DEPTH IN FEET		0-5		-	0-5	-	0-5	
MAT'L COLOR MAT'L TYPE	-	BR/GR			BR/GR	-	RD/BR	
LATITUDE DEG-MIN-	SEC -	35 3	3 15.20	-	35 33	15.20 =	35 33	15.20
LONGITUDE DEG-MIN-	SEC -	92 2	6 58.50		92 26	58.70	92 26	58.80
% PASSING 2				-		-		
·	: IN			=		-		
· · · · · · · · · · · · · · · · · · ·	IN	100		- T	100	_	100	
•	IN	97		-	93	_	95	
	4 -	89		**	76	-	87	
NO.		75		=	69	-	81	
NO.		62		-	64	-	79 77	
NO.	80 - 200 -	61		-	61 48	-	7 / 69	
NO.	200 -	49						
LIQUID LIMIT	-	28		-	27	=	36	
PLASTICITY INDEX	-	15		-	10		17	
AASHTO SOIL	-	A-6(4)		_	A-4(2)	-	A-6(10)	
UNIFIED SOIL	-			_	:	=		
% MOISTURE CONTENT		28.6			17.8		23.4	
ACHMSC	(IN) -	4.5W		-	2.5			
ACHMBC	(IN) -	10.25	o W	_	10.0	-		
AGG. BASE CRS.CL-7	(IN) -	12.0		_	12.0	-	1	
	F77.			-		2.5	9,	
	-			-		72	ii .	
	141			-			ě.	
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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

**	* SOIL	SURVEY / PAVEMENT	SO	UNDING TEST	r REPORT *	· * *
DATE - 06/ JOB NUMBER - 080 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - B PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - VAN B SAMPLED BY - D.DICK SAMPLE FROM - TEST MATERIAL DESC SOI	423 BE ASSI L SURVE SPECIFI TE EE BRAN OT APPL SAS UREN CO ERSON HOLE	Y SAMPLE CATION CHECK CH-NORTH (S) ICABLE UNTY	EME	INT SOUNDING	MATERIAL SPEC. YE SUPPLIER COUNTY/S DISTRICT DATE SAM DATE REC DATE TES	NO 50 CODE - SSRVPS AR - 2003 ID 1 TATE - 71 NO 08 MPLED - 05/22/13 CEIVED - 05/28/13 STED - 06/12/13
3/4 3/8 NO. NO. NO.	SEC - SEC - IN IN IN 10 4 - 10 - 40 -	S1082 INFORMATION ONLY 910+00 15'RT 0-5 BROWN 35 33 23.60 92 26 57.70 100 99 94 94 69 64		910+00 25'RT 0-5 RD/BR	DN ONLY - - - - - -	20132581 S1084 INFORMATION ONLY 910+00 35'RT 0-5 BROWN 35 33 23.60 92 26 57.50 100 93 82 66 51 47 35
LIQUID LIMIT	-	23	2	22	-	25
PLASTICITY INDEX	_	-	-	8	-	11
AASHTO SOIL UNIFIED SOIL	_	A-4 (1)	-	A-4(1)	-	A-2-6(0)
% MOISTURE CONTENT	_	14.4	=	18.0	-	12.7
ACHMSC	(IN) -	11.5W	=	2.5	_	and and date
ACHMBC	(IN) -	7.5W	-		-	
AGG. BASE CRS.CL-7	(IN) -	12.0	===	14.0	-	a mark
	- -		2			i.
	-		-			,
	-		77.		-	
	-		-		-	-
	-		_		-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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

DATE - 06/21/13 JOB NUMBER - 080423 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - BEE BRANCH-NORTH (S) PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - VAN BUREN COUNTY SAMPLED BY - D.DICKERSON SAMPLE FROM - TEST HOLE						SEQUENCE MATERIAL SPEC. YEX SUPPLIER COUNTY/S' DISTRICT DATE SAM DATE REC DATE TES	CODE - AR - ID IATE - NO PLED - EIVED -	SSRVPS 2003 1 71 08
MATERIAL DESC SO	IL SURV	EY - R VAL	UE- PAVE	ME	NT SOUNDIN	GS		
LAB NUMBER SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN- * PASSING 2		918+00 21'LT 0-5	ON ONLY	+-	20132583 S1086 INFORMATIO 918+00 30'LT 0-5 BROWN 35 33 92 26	ON ONLY - - - - - -	918+00 40'LT 0-5 BR/GR	
1 1/2 3/4	IN IN IN IN 4 - 10 - 40 - 80 -	100 99 93 84 75 72 62			100 94 81 67 56 51 45	- - - - -	100 97 86 77 70 64 57	
LIQUID LIMIT	-	35		-	29	-	29	
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - -	21 A-6(10) 18.4			13	-	14 A-6(5	
ACHMSC	(IN) -	5.0W			2.75	_		
ACHMBC	(IN) -	11.5W			2.75	_		e e
AGG. BASE CRS.CL-7	(IN) -	11.0		-	12.0	-		è
	-			-		-		
	_			-		_		
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	_			-		-		
	-			-		-		
	_			-		_		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

AASHTO TESTS : T24 T88 T89 T90 T265

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