ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO.			
FEDERAL AID PROJ	ECT NO. NH	PP-40-1(94)0	
OKLAH	OMA STATE LINE -	EAST (I-40 & I-540) (S	EL. SECS.) (S)
STATE HIGHWAY	I-540 & I-40	SECTION	1, 2 & 11
IN	CRAWFO	ORD & SEBASTIAN	COUNTY

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

June 21, 2016

TO:

Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT:

Job No. BB0401

Oklahoma St. Line - Ark. Mo. R.R. Overpass (S)

Route 40 Section 11 **Crawford County**

Transmitted herewith is the requested Pavement Sounding information for the above The project consists of milling and overlaying the existing asphalt for approximately 6.9 miles of Interstate 40. Cores were taken at quarter-mile increments alternating between inside and outside lanes. Locations were measured from centerline of construction and should be noted as such on the logs.

Materials personnel reviewed the pavement cores for the above job. distresses were discovered that would sacrifice the integrity of the pavement structure. Minor stripping was observed in the top two inches of surface course at isolated locations, but should not cause instability for the overlay. It is recommended that two inches of existing asphalt be milled in order to restore the desired cross section before paving.

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

1. Asphalt Concrete Hot Mix

PG	64	-22
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Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.4	94.6
Binder Course	4.5	95.5
Base Course	4.2	95.8

PG 70-22

Туре	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.5	94.5
Binder Course	4.5	95.5
Base Course	4.2	95.8

Michael C. Benson

Materials Engineer

MCB:pt:bjj Attachment

State Constr. Eng. – Master File Copy CC:

District 4 Engineer

System Information and Research Division

G. C. File

MICHAEL BENSON, MATERIALS ENGINEER

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

	BOIL BORVET	/ IAVENERI D	SONDING IEDI	REL OIL	
SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN	401 BE ASSIGNED L SURVEY SAMP SPECIFICATION TE KLAHOMA STATE OT APPLICABLE SAS ORD, COUNTY	CHECK LINE - ARK.	MO.RR OVERPA	MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT SS DATE SAM	PLED - 08/26/15
MATERIAL DESC PAV		IGS ONLY			
LAB NUMBER	- 20152	636 -	20152637	-	20152638
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.	- 10+00 - 25'LT - - SEC - 35 SEC - 94 IN IN IN IN 10 4 - 10 - 40 -	- - - - - - - - - - - - - - - - - - -	24+20 25'LT 35 27 2 94 26	- - - -	INFORMATION ONLY 36+50 40'LT 35 27 31.50 94 26 .10
NO.	200 -				
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	- - - -	, = 2 2		15 12 14 15	
ACHMSC ACHMBC	(IN) - 4.2 (IN) - 9.0 		4.5W 10.0W		4.0W 6.0W
REMARKS - W=MULTIPI -	E LAYERS, X=S	TRIPPED			

AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

	. DOID D	SKVET / FAVERENT	. BOUNDING IEB	I KEPOKI "	
DATE - 06/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	401 BE ASSIGN L SURVEY SPECIFICA TE KLAHOMA A OT APPLIA SAS ORD, COUNTER	SAMPLE ATION CHECK STATE LINE - ARP CABLE		MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT ASS DATE SAM	EIVED - 08/26/15
MATERIAL DESC PAV	EMENT SO	UNDINGS ONLY			
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.	SEC - IN IN IN 10 -	20152639 INFORMATION ONLY 19+70 10'RT 35 27 37.90	- 20152640 - INFORMATI - 49+70 - 70'LT 35 27	ON ONLY -	
	40 =		=	-	
NO.			2	建	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT ACHMSC	- - - - (IN) -	7.75W	- - - - 4.0W	-	8.5W
ACHMBC	(IN) -	11.0W	10.0W	=	6.5W
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REMARKS - W=MULTIPI	E LAYERS	, X=STRIPPED			

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - C PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWE SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE OKLAHOMA STATE LINE - ARK. NOT APPLICABLE NSAS FORD, COUNTY ZIER	SEQUENCE NO 3 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 MO.RR OVERPASS DATE SAMPLED - DATE RECEIVED - 08/26/15 DATE TESTED -
LAB NUMBER	- 20152642	= 20152643
SAMPLE ID	-	20132011
TEST STATUS	- INFORMATION ONLY	INFORMATION ONLY - INFORMATION ONLY
STATION	- 62+50	76+00 - 75+50
LOCATION	- 65'LT	85'RT - 85'LT
DEPTH IN FEET	_	(a)
MAT'L COLOR	_	En :
MAT'L TYPE	-	-
LATITUDE DEG-MIN-	SEC - 35 27 43.20	35 27 43.30 - 35 27 45.20
LONGITUDE DEG-MIN-	-SEC - 94 25 32.00	94 25 15.30 94 25 16.30
% PASSING 2	IN	
	IN	- E
	IN	- -
	IN	
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	10 -	•
	40 -	= ===================================
	80 -	高 - 森 - 全 - 安
5	200 -	-
LIQUID LIMIT	-	· ~
PLASTICITY INDEX	-	章 - 原 - 度
AASHTO SOIL	-	
UNIFIED SOIL		¥ ,=
% MOISTURE CONTENT	-	
ACHMSC	(IN) - 3.25W	- 4.0WX - 4.25W
ACHMBC	(IN) - 7.0W	- 9.0W - 9.0W
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/1 JOB NUMBER - BB04 FEDERAL AID NO TO B PURPOSE - SOIL SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - OK PROJECT ENGINEER - NO PIT/QUARRY - ARKANS	01 E ASSI SURVE PECIFI E LAHOMA T APPL	Y SAMP CATION STATE	CHE	ECK	. м	O.RR C)VER1	MATER SPEC. SUPPL COUNT DISTR	IAL YEA IER Y/ST	NO CODE - AR - ID TATE - NO	PS 20 1 17	14	
LOCATION - CRAWFO SAMPLED BY - T.FRAZI SAMPLE FROM - TEST H MATERIAL DESC PAVE	RD, CO ER OLE		IGS (ONLY				DATE DATE DATE	RECI	EIVED	- - 08 -	/26/1	.5
LAB NUMBER	-	20152	645		-	20152	646		4	20152	647		
SAMPLE ID	-				-				=				
TEST STATUS	-		LTAM	ON ONLY				ON ONLY				ON ON	1LA
STATION		88+70			_	88+70			_	102+3			
LOCATION DEPTH IN FEET	_	74'RT			_	74'LT			=	88'RT			
MAT'L COLOR	_				-				: . €.:				
MAT'L COLOR MAT'L TYPE	_				-				; =				
LATITUDE DEG-MIN-S	EC -	35	27	44.90	_	35	27	46.20).TX	35	27	45.80	0
LONGITUDE DEG-MIN-S						94	25	.50		94		43.6	
% PASSING 2	IN				_								
1 1/2					=				_				
	IN				_				-				
	IN				-				-				
NO.	4 -				=				_				
NO.	10 -				2				_				
NO.	40 -				=				_				
NO.					-				-				
NO. 2	00 -												
LIQUID LIMIT	-				=				-				
PLASTICITY INDEX	-				2				-				
AASHTO SOIL	-				2) =				
UNIFIED SOIL	-				-				2				
% MOISTURE CONTENT	-												
ACHMSC	(IN) -	4.5	W		-	5.5	W		=	5.0	W		
ACHMBC	(IN) -	9.7	5W		2	7.0	W		-	9.0	W		
	0 =				-				-				
	2				=				_				
	2				-				-				
	0.00				-				-				
	8 .5 925				**				-				
	(E)				2				_				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

	DOIL	DORVEL , I	717111111	50	ONDING IDD	. KEIOKI		
JOB NUMBER FEDERAL AID NO. PURPOSE SPEC. REMARKS SUPPLIER NAME NAME OF PROJECT PROJECT ENGINEES PIT/QUARRY	- SOIL SURVE - NO SPECIFI - STATE - OKLAHOMA R - NOT APPL ARKANSAS CRAWFORD, CO	GNED Y SAMPLE CATION CHE STATE LIN ICABLE	ск		O.RR OVERPA	SEQUEN MATERI SPEC. SUPPLI COUNTY DISTRI ASS	AL YEA ER /SI CT	PLED -
SAMPLE FROM -						DATE T		EIVED - 08/26/15 FED -
MATERIAL DESC.	- PAVEMENT S	OUNDINGS O	ONLY					
LAB NUMBER	-	20152648		= 3	20152649		-	20152650
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE		101+50 88'LT			117+10 26'RT			INFORMATION ONLY 117+10 76'LT
LATITUDE DEG LONGITUDE DEG				_	35 27 ⁴ 94 24	46.10 27.60	-	35 27 47.40 94 24 29.30
% PASSING	2 IN 1 1/2 IN 3/4 IN 3/8 IN NO. 4 - NO. 10 - NO. 40 - NO. 80 - NO. 200 -					27.00		
LIQUID LIMIT PLASTICITY IN AASHTO SOIL UNIFIED SOIL % MOISTURE CO	-							
ACHMSC ACHMBC	(IN) - (IN) - - - - - - -	4.5W 8.0W			3.0 9.25W			4.5W 8.5W
REMARKS - W-MT	ספעמו פוסדיתוו	ס ע_פייסדנ	משמט					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/15/16 SEQUENCE NO 6 JOB NUMBER - BB0401 MATERIAL CODE - PSO FEDERAL AID NO TO BE ASSIGNED SPEC. YEAR - 2014 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID 1 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 17 SUPPLIER NAME - STATE DISTRICT NO 04 NAME OF PROJECT - OKLAHOMA STATE LINE - ARK. MO.RR OVERPASS PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - CRAWFORD, COUNTY DATE SAMPLED - SAMPLED BY - T.FRAZIER DATE RECEIVED - 08/26/15 SAMPLE FROM - TEST HOLE									
MATERIAL DESC PAY	VEMENT SOUNDINGS ON	ILY							
LAB NUMBER	- 20152651	-	20152652	= 2	20152653				
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	- - INFORMATION - 129+30 - 76'RT	N ONLY - - - -	INFORMATION 129+30 86'LT	* 1	INFORMATION ONLY 141+90 36'RT				
MAT'L COLOR	_	-							
MAT'L TYPE	-	-							
LATITUDE DEG-MIN-			35 27 42.		35 27 34.60				
LONGITUDE DEG-MIN-	SEC - 94 24 1	.3.60	94 24 14	.80	94 23 59.20				
3/4	10 - 40 - 80 -								
I TOUTD I TMT	554								
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	5) 5) 6) 1			5 4 5 5					
ACHMSC	(IN) - 5.0WX		5.75W		E EVV				
ACHMBC	(IN) - 9.0W	-	7.50W		5.5WX 8.0WX				
	W. 1020	-	-	340					
	=) -		=:					
	≅ =	:=: 							
	-	-		940					
	-	-		(#2)					
	5 2	555 522							
REMARKS - W=MULTIPI	LE LAYERS, X=STRIPP	PED							

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - C PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T. FRAZ SAMPLE FROM - TEST	401 BE ASSI L SURVE SPECIFI TE OKLAHOMA OT APPL ISAS ORD, CO ZIER HOLE	Y SAMPLE CATION CHECK STATE LINE - A ICABLE UNTY	RK. M	O.RR OVEI	SEQUEN MATERI SPEC. SUPPLI COUNTY DISTRI RPASS DATE S DATE R DATE T	AL YEA ER /ST CT SAME	CODE - R - ID ATE - NO PLED -	PS 20 1 17 04	14
MATERIAL DESC PAY	EMENT S								
LAB NUMBER	-	20152654	÷	20152655	5	-	20152	556	
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	-	139+90	LY -		TION ONLY		INFORI 167+20 15'RT		ON ONLY
MAT'L COLOR	-		-:			-			
MAT'L TYPE			=,			-			
LATITUDE DEG-MIN-					34.10	-			34.90
LONGITUDE DEG-MIN-	SEC -	94 24 .90		94 23	3 45.10		94	23	29.20
% PASSING 2			*						
	IN					-			
	IN IN		2			2			
·	4 -		-						
NO.						7			
	40 -		=======================================			-			
NO.	80 -		~			-			
NO.	200 -								
LIQUID LIMIT	_		-			-			
PLASTICITY INDEX	-		===			-			
AASHTO SOIL	-		-			_			
UNIFIED SOIL	-		_			-			
% MOISTURE CONTENT	-								
ACHMSC	(IN) - =	4.5W	-	NO TES	ST	-	4.2	5W	
ACHMBC	(IN) -	16.0W	-			-	15.	WO	
			_			_			
	-		-			-			
	12 12		-			-			
			_			-			
	-		-			-			
	-		-			-			

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - BEFEDERAL AID NO TO PURPOSE - SO SPEC. REMARKS - NO SUPPLIER NAME - ST NAME OF PROJECT - PROJECT ENGINEER - PIT/QUARRY - ARKE	D BE ASSI DIL SURVE D SPECIFI TATE OKLAHOMA NOT APPL	Y SAMPLE CATION CHECK STATE LINE - ARK ICABLE	М	MA SP SU CO DI O.RR OVERPASS	TERIAL PEC. YEA PPLIER UNTY/ST	NO 8 CODE - PSO AR - 2014 ID 1 FATE - 17 NO 04
SAMPLED BY - T.FR. SAMPLE FROM - TEST MATERIAL DESC P.	AZIER I HOLE			D.F	ATE SAM ATE REC: ATE TES'	EIVED - 08/26/15
	AVENENT 2					
LAB NUMBER	_	20152657	-	20152658		20152659
SAMPLE ID TEST STATUS	_	TNEODMATTON ONLY	_	TNEODMATTON (ONT V TIME	INFORMATION ONLY
STATION	_		_	180+10		192+80
LOCATION		90'LT	-	55'RT	70	76'RT
DEPTH IN FEET			-		0.7	, 0
MAT'L COLOR	_		_		12	
MAT'L TYPE	_		_		_	
LATITUDE DEG-MIN	I-SEC -	35 27 35.90	-	35 27 40.	40	35 27 49.20
LONGITUDE DEG-MIN	-SEC -	94 23 29.20		94 23 15.	00	94 23 3.30
% PASSING 2	IN		_		_	
1 1/	2 IN		_		_	
•	4 IN		-		-	
	'8 IN. =		-		-	
NO.	4 -		_		-	
	10 -		_		-	
NO.	40 -		-		-	
	80 -		-		-	
NO.	200 -					
LIQUID LIMIT	=		-		350	
PLASTICITY INDEX	-		=2		9	
AASHTO SOIL	=		3		FE	
UNIFIED SOIL	-				-	
% MOISTURE CONTEN	T -					
ACHMSC	(IN) -	4.25W	_	6.0W	-	5.0W
ACHMBC	(IN) -	12.50W	-	10.0W	= 1	14.0W
	:: **		-		-	
	3 5		-		2	
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	32		_			
	-		-		=	
	10 5		-		-	
	17	¥	-		=	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - FEDERAL AID NO PURPOSE - SPEC. REMARKS - SUPPLIER NAME - NAME OF PROJECT PROJECT ENGINEER PIT/QUARRY - F	SOIL NO SP STATE - OKL	1 ASSI SURVE ECIFI AHOMA APPL S	Y SAMP CATION STATE	CHI	ECK	ARK.	М	o.RR C)VER1	MATER SPEC. SUPPL COUNT DISTR	IAL YE <i>I</i> IER Y/ST	NO. CODE AR ID. CATE NO. CATE	- PS - 20 - 1)14	
SAMPLE BY - T SAMPLE FROM - T MATERIAL DESC	rest ho	LE	COUNTRY	זמפ	ONIT.V	7				DATE DATE			- 08 -	3/26/15	5
LAB NUMBER		EMI S	20152		ONLI	•	1	20152	661		=	20152	662		
SAMPLE ID		90					_				1/4		002		
TEST STATUS		μ.			ION (ONLY	-	INFOR	MATI	ON ONLY	100	INFOR	ITAM	ON ONI	ĽΥ
STATION			193+9				:=5 :::::::::::::::::::::::::::::::::::	206+4				206+4	0		
LOCATION		=	76'RT				- To	66'RT	ı		(E)	106'L	T		
DEPTH IN FEET		77					-				1044				
MAT'L COLOR MAT'L TYPE		_					**				*				
LATITUDE DEG-	MIN-SE		35	27	50.	90	-	35	2.7	55.30) <u>=</u> :	35	27	57.20	
LONGITUDE DEG-						40		94		49.30		94		49.80	
		N					_								
	. 1/2 II						_				-				
	3/4 II						-				-				
	3/8 II						-				-				
	NO.	4 =					_				_				
	NO. 1						_				-				
	NO. 4	-					-				-				
	NO. 20						-				-				
LIQUID LIMIT		표													
PLASTICITY IND	EX	- E					_				(27) (2)				
AASHTO SOIL		=					_				-				
UNIFIED SOIL		35					-				36				
% MOISTURE CON	TENT	848					-				177				
ACHMSC	(I	(N) -	6.2	5W			-77	5.0	W		-	6.5	W		
ACHMBC		(N) -	9.2	5W			-	11.	OW		2	7.0			
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST MATERIAL DESC PAX	401 BE ASSI L SURVE SPECIFI TE OKLAHOMA OT APPL (SAS ORD, CO	Y SAMPLE CATION CHECK STATE LINE - AR ICABLE UNTY	₹K. M	O.RR OVERPA	SPEC. YEA SUPPLIER COUNTY/SI DISTRICT ASS	CODE - PSO AR - 2014 ID 1 FATE - 17 NO 04 PLED - 08/26/15
LAB NUMBER	-	20152663	-	20152664	-	20152665
SAMPLE ID	_		_		<u>.</u> .	
TEST STATUS	-	INFORMATION ONL	Y -	INFORMATIO	N ONLY	INFORMATION ONLY
STATION	-	199+80	-	199+00	=	232+90
LOCATION	-	86'RT	-	86'LT	=	98'RT
DEPTH IN FEET	-		_		==1	
MAT'L COLOR MAT'L TYPE	-		-		549	
LATITUDE DEG-MIN-	CEC -	35 27 55 00	=	35 27 5	56.50 -	35 27 52.60
LONGITUDE DEG-MIN-					56.50 - 34.50	94 22 18.20
		31 22 33.30		2 2 2 .	34.50	J1 22 10.20
% PASSING 2					-	
	IN IN		-			
	IN		14		=	
NO.					-	
NO.			100		3 = 3	
NO.			72		프라 프라	
NO.	80 -		2000		======================================	
NO.	200 -					
LIQUID LIMIT	_		-		-	
PLASTICITY INDEX	_		S.=		-	
AASHTO SOIL	-		=		-	
UNIFIED SOIL	-		200		_	
% MOISTURE CONTENT	-				_	
ACHMSC	(IN) -	4.5W	=	4.75W	res	4.5W
ACHMBC	(IN) -	8.75W	=	9.25W	1/2	8.0W
	-		2		72	
	_		_		-	
	-		=		(3)	
	-		25		12	
	_		2		: = :	
	-		=		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - C PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWI SAMPLED BY - T.FRA	BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE OKLAHOMA STATE LINE - ARK NOT APPLICABLE NSAS FORD, COUNTY ZIER	SEQUENCE NO 11 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 K. MO.RR OVERPASS DATE SAMPLED - DATE RECEIVED - 08/26/15
SAMPLE FROM - TEST MATERIAL DESC PA	HOLE VEMENT SOUNDINGS ONLY	DATE TESTED -
LAB NUMBER SAMPLE ID	20152666	- 20152667 - 20152668
TEST STATUS STATION LOCATION DEPTH IN FEET	- 232+90 - 98'LT	INFORMATION ONLY - INFORMATION ONLY - 246+10 - 246+10 - 76'LT
MAT'L COLOR MAT'L TYPE		
	-SEC - 94 22 18.70	
3/4 3/8 NO. NO. NO. NO.	10 - 40 - 80 -	
LIQUID LIMIT PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT	† † + **	
ACHMSC ACHMBC	(IN) - 4.25W (IN) - 8.25W - - - - - - -	- 5.5W - 4.0WX - 6.5W - 8.0W

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

	DOLL BORVEL , LIVEREN	DOGNOTING TEST RELIGION
SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - C PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWA SAMPLED BY - T.FRAM SAMPLE FROM - TEST	D401 BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE DKLAHOMA STATE LINE - ARK. NOT APPLICABLE NSAS FORD, COUNTY ZIER	SEQUENCE NO 12 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 MO.RR OVERPASS DATE SAMPLED - DATE RECEIVED - 08/26/15 DATE TESTED -
LAB NUMBER	20152669	= 20152670 - 20152671
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	- INFORMATION ONLY	- 20152670 - 20152671 - INFORMATION ONLY - INFORMATION ONLY - 271+20 - 271+20 - 76'RT - 76'LT
MAT'L COLOR	*	(#) -
MAT'L TYPE	त्तः	
LATITUDE DEG-MIN-		
LONGITUDE DEG-MIN-	-SEC = 94 21 47.00	94 21 32.00 94 21 30.50
3/4 3/8 NO. NO. NO.	IN 2 IN 3 IN 4 - 10 - 40 - 80 - 200 -	
LIOUID LIMIT	= 1	
PLASTICITY INDEX	= ·	
AASHTO SOIL	=	=====================================
UNIFIED SOIL	5 7	-
% MOISTURE CONTENT	=	:≘: -
ACHMSC	(IN) - 3.5W	A FW
ACHMBC		- 4.5WX
ACITIBLE	(IN) - 9.0W	- 15.0W - 10.0W
	e.:	- *:
		- #2
	=	-
		<u>-</u> ₩
	-	= =: =: =: =: =: =: =: =: =: =: =: =: =:
	=	-
PEMARKS - W-MII.TID	T.E T.AVERS Y-STRING	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	0401 BE ASSIGNED IL SURVEY SAMPLE SPECIFICATION CHECK ATE OKLAHOMA STATE LINE - ARI NOT APPLICABLE NSAS FORD, COUNTY ZIER	K. MO.RR OVERPA	SEQUENCE NO 13 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 SS DATE SAMPLED - DATE RECEIVED - 08/26/15 DATE TESTED -
LAB NUMBER		<i>₹</i> 20152673	20152674
SAMPLE ID	- 20152672 -	20152673	20152674
TEST STATUS STATION LOCATION DEPTH IN FEET	- INFORMATION ONLY - 204+80 - 88'RT	- INFORMATIO - 284+80 - 88'LT	N ONLY - INFORMATION ONLY - 298+30 - 76'RT
MAT'L COLOR	-		: =
	SEC - 35 27 44.10 SEC - 94 21 16.40		- 15.80 - 35 27 42.60 14.70 94 21 .60
		J. 21 .	14.70
3/4 3/8 NO. NO. NO.	IN IN IN IN 4 - 10 - 40 -		
LIQUID LIMIT	-	_	
PLASTICITY INDEX	-	_	<u> </u>
AASHTO SOIL	=	-	700
UNIFIED SOIL	:(=	-	-
% MOISTURE CONTENT	_	-	.=
ACHMSC	(IN) - 4.0W	- 5.0W	- 4.25WX
ACHMBC	(IN) - 13.5W	- 11.5	- 9.0W
	12	-	<u>=</u>
	:= :-	_	-
		-	-
	7 <u>=</u>	=	=
	9 =	_	<u> </u>
	8 11 182	-	-
		-	
PEMARKS - W-MIII.TIDI	LE LAVEDO Y-CTDIDED		

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

JOB NUMBER - B FEDERAL AID NO T PURPOSE - S SPEC. REMARKS - N SUPPLIER NAME - S NAME OF PROJECT - PROJECT ENGINEER - PIT/QUARRY - ARK	O BE ASSI OIL SURVE O SPECIFI TATE OKLAHOMA NOT APPL ANSAS WFORD, CO	Y SAMPLE CATION CHECK STATE LINE - ARK ICABLE UNTY	. М	SEQUENCE NO 14 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 MO.RR OVERPASS DATE SAMPLED - 08/26/15 DATE TESTED - 08/26/15
LAB NUMBER	-	20152675	=	20152676 - 20152677
SAMPLE ID	2	20132073		201320//
TEST STATUS	=	INFORMATION ONLY	=	INFORMATION ONLY - INFORMATION ONLY
STATION		298+30	•	311+20 - 311+20
LOCATION	=	76'LT	990	88'RT - 88'LT
DEPTH IN FEET	-		₩:	-
MAT'L COLOR			_	- -
MAT'L TYPE	-		-	-
		35 27 43.80		35 27 40.80 - 35 27 42.60
LONGITUDE DEG-MI	N-SEC -	94 20 59,10		94 20 44.80 94 20 43.10
% PASSING 2	IN		_	變
1 1	/2 IN. =		-	7 8
3	/4 IN		-	::e
	/8 IN. =		-	
	· 4 =		_	·
	10 =		-	*
	40 =		-	(B)
	. 80 -		-	<u> -</u>
NO	200 -			
LIQUID LIMIT	=		= 0	188
PLASTICITY INDEX			(###.) (##.)	₩ 7
AASHTO SOIL	-		2	18
UNIFIED SOIL	NTM -		-	16 4
% MOISTURE CONTE	NI -			
ACHMSC	(IN) -	6.0W	-	4.0WX - 4.0W
ACHMBC	(IN) -	6.5W	_	9.0W - 7.0W
	-		_	
			-	-
	9		-	-
	19 2		-	-
	·		-	- -
	3.7		_	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

SPEC. REMARKS - NO SUPPLIER NAME - ST NAME OF PROJECT - O PROJECT ENGINEER - D PIT/QUARRY - ARKA	0401 BE ASSIGNATE SPECIFICATE OKLAHOMA NOT APPLINSAS FORD, COU ZIER HOLE	SAMPLE ATION CHECK STATE LINE - ARK CABLE NTY	. MO.RR O	MATERI SPEC. SUPPLI COUNTY DISTRI VERPASS DATE S	ICE NO. TAL CODE YEAR TER ID. TOTALE TOTALE TOTALE TESTED	- PSO - 2014 - 1 - 17 - 04
LAB NUMBER			20152	679	- 2015	:2600
SAMPLE ID	- ;	20152678	50 ZU15Z	6/9	2015	32680
TEST STATUS		INFORMATION ONLY	- TNFOR	V.TIAO MOTTAM	- TNFO	ORMATTON ONLY
STATION		325+30	325+3		⇒ 3384	
LOCATION		76'RT	76'LT		78'F	
DEPTH IN FEET	_	, 5	40		-	
MAT'L COLOR	_		4		:#E	
MAT'L TYPE	-				-	
LATITUDE DEG-MIN	-SEC -	35 27 39.40	35	27 40.90	- 35	37.50
LONGITUDE DEG-MIN	-SEC -	94 20 27.70	94	20 28.90	94	20 11.80
% PASSING 2	IN		_		_	
	2 IN		_		_	
	1 IN		_		-	
	3 IN		-		_	
•	4 -		_		-	
	10 -		_		-	
	40 -		_		-	
NO.	80 -		_		_	
NO.	200 -					
I TOUTD I IMIT					122	
LIQUID LIMIT PLASTICITY INDEX	_		=			
AASHTO SOIL	_		=0		:ee	
UNIFIED SOIL	_		(40)		(1 11)	
% MOISTURE CONTENT	г _				· _	
		4 077				
ACHMSC	(IN) -	4 · 0W		5WX		.75W
ACHMBC	(IN) -	7 • OW	6.5	W	-	. OW
	-		=		-	
	-		=		-	
	-		-		-	
	_		-		_	
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	_		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	401 BE ASSI L SURVE SPECIFI TE OKLAHOMA OT APPL ISAS ORD, CO ZIER HOLE	Y SAMPLE CATION C . STATE I ICABLE UNTY	CHECK LINE - ARK	. М	O.RR O	VERE	MATER: SPEC. SUPPL: COUNTY DISTR: PASS	IAL YEA IER Y/ST ICT SAMI RECI		PS 20 1 17 04	14	
MATERIAL DESC PAV LAB NUMBER	EMENT S				00150	600						
SAMPLE ID	_	2015268	1	_	20152	682		_	20152	683		
TEST STATUS	_	INFORMA	TION ONLY	_	TNFOR	МАТТ	ON ONLY	_	INFOR	MATI	ON ONLY	r
STATION	-	338+70		-	352+1				352+1			
LOCATION	-	78'LT		=	46'RT			-	46'LT			
DEPTH IN FEET	-			_				_				
MAT'L COLOR	-			_				_				
MAT'L TYPE	-	25 2	7 20-50	-	2.5		24 00	-	2.5	0.7	25 40	
LATITUDE DEG-MIN- LONGITUDE DEG-MIN-							34.00 56.40				35.40 57.90	
		J4 2	0 13.10		74	19	30.40		74	19	57.90	
% PASSING 2				÷				:=:				
	IN			=				-				
	IN IN			-				5 <u>4</u> 5				
·	4 -			*				-				
NO.												
	40 -			=								
NO.	80 -			-				(4)				
NO.	200 -											
LIQUID LIMIT	-			-				_				
PLASTICITY INDEX	-			-				-				
AASHTO SOIL	-			~				-				
UNIFIED SOIL	-			-				_				
% MOISTURE CONTENT	-			777								
ACHMSC	(IN) -	3.25	J		4.7	5W		=	5.5	WX		
ACHMBC	(IN) -	7.500	J	-	12.	25W		=	6.5	W		
				-				=				
	: = :			-				-				
	-			-				7				
	54			-				-				
	:=: :=:			-				-				
	-			_				77				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 06/1 JOB NUMBER - BB04 FEDERAL AID NO TO E PURPOSE - SOIL SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - OF PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - CRAWFO SAMPLED BY - T.FRAZI SAMPLE FROM - TEST H	HO1 BE ASSI L SURVE EPECIFI TE KLAHOMA DT APPL BAS DRD, CO IER	Y SAMPLE CATION CHECK STATE LINE ICABLE	3	10.RR OVERPA	MATERIAL CODE SPEC. YEAR SUPPLIER ID. COUNTY/STATE DISTRICT NO.	- PSO - 2014 - 1 - 17 - 04
MATERIAL DESC PAVE	EMENT S	OUNDINGS ONI	ΓĀ			
LAB NUMBER	_	20152684	_	20152685	_	
SAMPLE ID	_		_		-	
TEST STATUS	_	INFORMATION	ONLY -	INFORMATIO:	N ONLY -	
STATION		365+30		365+30	-	
LOCATION	_	48'RT	-	48'LT	-	
DEPTH IN FEET	_		-		-	
MAT'L COLOR	_		-		-	
MAT'L TYPE	-		_		-	
LATITUDE DEG-MIN-S	SEC -	35 27 27	7.90 -	35 27 3	0.20 -	
LONGITUDE DEG-MIN-S	SEC -	94 19 42	2.40	94 19 4	14.80	
% PASSING 2	IN.		_		_	
1 1/2			=		-	
	IN		<u> </u>		2	
-	IN		¥		3#6	
NO.			**		(-	
NO.					=	
	40 -		_		=	
	80 =		_		-	
	00 -			27.		
LIQUID LIMIT	-				-	
PLASTICITY INDEX	-		=		<u>-</u>	
AASHTO SOIL	85		_		_	
UNIFIED SOIL			_		_	
% MOISTURE CONTENT	-					
ACHMSC	(IN) -	3.5W	=	4.25W	=	
ACHMBC	(IN) -	14.5W	-	8.50W	22	
	-		- s		=	
	-		-		>	
	_		_		= 2	
	_		_		= =	
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

September 2, 2015

TO: Mr. Michael Kelly, Division Head – System Information and Research

SUBJECT: Pavement Soundings

BB0401

Oklahoma St. Line - Ark. Mo. RR Overpass (F)

Route 40 Section 11 Crawford County

Attached is the pavement sounding information conducted for the above mention job requested by your office. Samples were taken at ½ mile increments in the Outside and Inside Wheel Path of the existing travel lanes between log miles 0.0 to 6.9. Stations are noted as log miles and indicate East and West bound travel lanes. Locations are shown as RIWP = Right Inside Wheel Path, ROWP = Right Outside Wheel Path, LIWP = Left Inside Wheel Path, and LOWP = Left Outside Wheel Path.

Michael C. Berlson Materials Engineer

MCB:bi

G.C. File

Arkansas State Highway Transporation Department

Materials Division

 $JOB\ NAME$: OKLAHOMA STATE LINE TO ARK. NO.RR OVERPASS

COUNTY NO.

BB0401

JOB:

Michael Benson, Materials Engineer

PAVEMENT SOUNDINGS ACHMBC ACHMBC ACHMBC ACHIMBC ACHMBC ACHIMBC ACHIMBC 8.5W ACHIMBC ACHMBC ACHMBC ACHIMBC ACHMBC ACHIMBC ACHMBC ACHIMBC ACHMBC ACHIMBC 15.0W 16.0W 8.0WX 7.50W 9.25W 11.0W 10.0W 9.75W 12.50 7.0W 9.0W 9.0W 8.0W 9.0W ACHIMSC ACHMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC NO TEST ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHIMSC ACHMSC ACHIMSC ACHIMSC ACHIMSC 5.5WX 4.25W 4.25W 5.75W 5.0WX 4.25W 6.25W 4.5W 4.25W 4.5W 6.0W 4.5W 5.0W 5.5W 4.5W 5.0W ROWP ROWP ROWP ROWP LOWP LOWP LOWP LOWP RIWP RIWP RIWP RIWP RIWP RIWP LIWP LIWP LIWP STA.# LOC. 1.90 EB 15 WB 3.40 EB 3.15 EB 2.65 EB 2.40 EB 3.90 EB 1.65 EB 3.15 W 2.65 W 2.15 W 3.65 W 1.90 W 2.90 W 2.40 W 1.40 W 1.65 W

W=MULTIPLE LAYERS, X=STRIPPED

comments:

Tuesday, September 01, 2015

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W=MULTIPLE LAYERS, X=STRIPPED	=MULTIPLE		comments:
ACHMBC 6.5W	ACHMSC 6.0W	8 RIWP	5.65WB
9.0W	4.0WX		
ACHIMBC	ACHIMSC	B ROWP	5.90 EB
ACHMBC 7.0W	ACHIMSC 4.0W	LOWP	5.90 W
7.0W	4.0W		
ACHIMBC	ACHMSC	B LIWP	6.15 EB
6.5W	4.25WX		
ACHIMBC	ACHIMSC	RIWP	6.15 W
9.0W	4.75W		
ACHIMBC	ACHIMSC	B ROWP	6.40 EB
7.50W	3.25W		
ACHIMBC	ACHIMSC	LOWP	6.40 W
12.25	4.75W		
ACHIMBC	ACHIMSC	B LIMP	6.65 EB
6.5W	5.5WX		
ACHIMBC	ACHIMSC	RINP	6.65 W
14.5W	3.5W		
ACHMBC	ACHIMSC	3 ROWP	6.90 EB
ACHMBC	ACHMSC	3 ROWP	5.40 EB
9.25W	3.0		
ACHMBC	ACHIMSC	3 LIWP	2.15 EB
10.0W	4.5W		
ACHMBC	ACHIMSC	3 LOWP	.40 WB
6.0W	4.0W		
ACHIMBC	ACHIMSC	3 RIWP	.65 WB
11.0W	7.75W		
ACHIMBC	ACHIMSC	ROWP	.9 EB
10.0W	4.0W		
ACHMBC	ACHMSC	LOWP	.9 WB
ACHINDC 6.5W	8.5W	- LIVVP	
ACHMBC 7.0W	ACHMSC 3.25W	RIWP	1.15 W
9.0W	4.0WX		
ACHIMBC	ACHIMSC	3 ROWP	1.40 EB

Page 2 of 3

PAVEMENT SOUNDINGS														
	ACHMBC 14.0W	ACHMBC 11.5	ACHMBC 8.50W	ACHMBC 10.0W	ACHMBC 15.0W	ACHMBC 9.0W	ACHMBC 8.0W	ACHMBC 6.5W	ACHMBC 8.25W	ACHMBC 8.0W	ACHMBC 9.25W	ACHMBC 8.75W	ACHMBC 7.0W	ACHMBC 9.0W
	ACHMSC 5.0W	ACHIMSC 5.0W	ACHMSC 4.25W	ACHMSC 4.5WX	ACHMSC 4.5W	ACHMSC 3.5W	ACHIMSC 4.0WX	ACHIMSC 5.5W	ACHIMSC 4.25W	ACHIMSC 4.5W	ACHIMSC 4.75W	ACHMSC 4.5W	ACHIMSC 6.5W	ACHMSC 4.25WX
LOC.	LIWP	LOWP	LOWP	RIWP	LIWP	ROWP	RIMP	LIWP	LOWP	ROWP	RIWP	LIWP	LOWP	LIWP
STA.# LOC.	3.65 EB	5.40 W	6.90 W	5.15 W	5.15 EB	4.90 EB	4.65 W	4.65 EB	4.40 W	4.40 EB	4.15 W	4.15 EB	3.90 W	5.65 EB

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 09/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - O PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST MATERIAL DESC PAN	401 BE ASSI L SURVE SPECIFI TE KLAHOMA OT APPI SAS ORD, CO GIER HOLE	Y SAMPLE CATION CHECK STATE LINE TICABLE OUNTY	ro ark.	MAT SPE SUP COU DIS NO.RR OVERPASS DAT	ERIAL C. YEA PLIER NTY/SI TRICT	NO 1 CODE - PSO AR - 2014 ID 1 PATE - 17 NO 04 PLED - 08/26/15 FED - 08/26/15
LAB NUMBER	_	20152636	=	20152637	-	20152638
SAMPLE ID	-		200		(m)	
TEST STATUS	-	INFORMATION				INFORMATION ONLY
STATION		.15 WB	==	.40 WB		.65 WB
LOCATION	-	RIWP		LOWP	-	RIWP
DEPTH IN FEET	-		-		-	
MAT'L COLOR MAT'L TYPE	-		40		_	
LATITUDE DEG-MIN-	- 9FC -	35 27 12	30	35 27 22.50	1	35 27 31.50
LONGITUDE DEG-MIN-	SEC -	94 26 21	.50 ==	94 26 11.3		94 26 .10
				7- 20 11.5	O	20 .10
% PASSING 2			80		_	
	IN		-		_	
•	IN		a 1		_	
·	4 -		<u> </u>		-	
	10 =		<u> </u>		-	
	40		-		_	
NO.	80 -		5		_	
NO.	200 -					
LIQUID LIMIT			¥1		-	
PLASTICITY INDEX	-		<u>⇔</u>);		-	
AASHTO SOIL	-		= 1		-	
UNIFIED SOIL	40				_	
% MOISTURE CONTENT	#0		_			
ACHMSC	(IN) -	4.25W	540	4.5W	-	4.0W
ACHMBC	(IN) =	9.0W	j==:	10.0W	-	6.0W
	= 0		7 70.		-	
	-		-		_	
	770				_	
	3				-	
	20		-		_	
			(#) (#)		_	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/ JOB NUMBER - BBG FEDERAL AID NO - TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - 2 PROJECT ENGINEER - 1 PIT/QUARRY - ARKAM LOCATION - CRAWN SAMPLED BY - T.FRA SAMPLE FROM - TEST MATERIAL DESC PA	BE ASSICATE SPECIFICATE CXXXX NOT APPL ISAS FORD, CO ZIER HOLE	Y SAMPLE CATION CHECK ICABLE UNTY		MAT SPE SUP COU DIS DAT	ERIAL C. YEF PLIER NTY/ST TRICT	EIVED - 08/26/15
LAB NUMBER	-	20152639	i ii	20152640	¥8	20152641
SAMPLE ID	_		4		-	
TEST STATUS	-	INFORMATION ONLY	77	INFORMATION ON	LY =	INFORMATION ONLY
STATION	-	.9 EB	77	.9 WB	***	1.15 EB
LOCATION	_	ROWP	-	ĻOWP	-	LIWP
DEPTH IN FEET	-		_		-	
MAT'L COLOR	-		=			
MAT'L TYPE	_		2		*	
LATITUDE DEG-MIN-				35 27 38.9		
LONGITUDE DEG-MIN-	·SEC -	94 25 46.30		94 25 47.0	0	94 25 31.30
% PASSING 2	IN		~		-	
1 1/2	! IN		-		-	
	IN				-	
·	3 IN		_		_	
	4 -		-		_	
NO.			-		-	
NO.			-		-	
NO.			-		-	
110.	200 -					
LIQUID LIMIT	_		72		***	
PLASTICITY INDEX	-				-	
AASHTO SOIL	_				=	
UNIFIED SOIL	-		7		-	
% MOISTURE CONTENT	-					
ACHMSC	(IN) -	7.75W	-	4.0W	_	8.5W
ACHMBC	(IN) -	11.0W	_	10.0W	-	6.5W
	_		_			
	_		-		22	
	-		-		-	
	_		_		-	
	_		- ~		-	
	_		_		34	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/2 JOB NUMBER - BB04 FEDERAL AID NO TO F PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - XX PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - CRAWFO SAMPLED BY - T. FRAZ SAMPLE FROM - TEST F MATERIAL DESC PAV	401 BE ASSI SURVE SPECIFI FE XXXX OT APPL SAS ORD, CC IER HOLE	Y SAMPLE CATION CHECK ICABLE UNTY		MATE SPEC SUPE COUN DIST DATE	RIAL YEA LIER TY/ST RICT E SAM	NO 3 CODE - PSO AR - 2014 ID 1 FATE - 17 NO 04 PLED - EIVED - 08/26/15 TED -
LAB NUMBER	_	20152642	-	20152643	390	20152644
SAMPLE ID	-				-	
TEST STATUS	-	INFORMATION ONLY	=	INFORMATION ON	Y -	INFORMATION ONLY
STATION	-	1.15 WB	-	1.40 EB	-	1.40 WB
LOCATION	-	RIWP	_	ROWP	-	LOWP
DEPTH IN FEET	-		-		-	
MAT'L COLOR	-		2		_	
MAT'L TYPE	-		-			
LATITUDE DEG-MIN-S		35 27 43 20	Ħ	35 27 43.30		35 27 45.20
LONGITUDE DEG-MIN-S	SEC -	94 25 32.00		94 25 15.30)	94 25 16.30
% PASSING 2	IN		100 100 100 100 100 100 100 100 100 100		-	
1 1/2			=		-	
	IN: -		-			
·	IN		- 2		=	
	4 -		_		-	
	10 -		*			
	40 -				: = 3	
NO. 2	- 08		ä		-	
NO. 2	200 -					
LIQUID LIMIT			-		\$ - \$	
PLASTICITY INDEX	-		-		155 152	
AASHTO SOIL	-		_		-	
UNIFIED SOIL	-		_		-	
% MOISTURE CONTENT	-					
ACHMSC	(IN) =	3.25W	-	4.OWX	34	4.25W
ACHMBC	(IN) =	7 OW	-	9.0W	-	9.0W
	50 50		_		15	
	S E		_		I de	
	-		-		36	
	=		-		100	
			-			
			_		-	

REMARKS 👻 W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

**	* SOIL	SURVEY / :	PAVEMENT	SO	UNDING TEST	REPORT	* * *		
DATE - 08/ JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - X PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST MATERIAL DESC PAX	401 BE ASSI L SURVE SPECIFI TE XXXX OT APPL ISAS FORD, CO ZIER HOLE	Y SAMPLE CATION CH: ICABLE UNTY	ECK			SEQUENCE MATERIA SPEC. Y SUPPLIE COUNTY/ DISTRIC DATE SA DATE RE DATE TE	L CODE EAR R ID. STATE T NO. MPLED CCEIVED	- PS - 20 - 1 - 17 - 04	014 7 4
LAB NUMBER	_	20152645		-	20152646		- 2015	2647	
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET	- - -			- -	INFORMATION 1.65 WB	ON ONLY	_	RMAT	ION ONLY
MAT'L COLOR	-			_			_		
MAT'L TYPE LATITUDE DEG-MIN- LONGITUDE DEG-MIN-		35 27 94 24			35 27 94 25	46.20 .50			45.80 43.60
% PASSING 2	IN			24			ž:		
1 1/2	IN			-			= ₹		
	IN						=0		
	IN			2			€: -26		
	4 -			-			#		
	10 - 40 -			77			u c		
	80 -			# =			- 0		
NO.	200 -								
LIQUID LIMIT				-			=		
PLASTICITY INDEX AASHTO SOIL	_			-			Z. = :		
UNIFIED SOIL	_			=					
% MOISTURE CONTENT	_			-			-:		
ACHMSC	(IN) -	4.5W			5.5W		_ E	. OW	
ACHMBC	(IN) -	9.75W		***	7.0W			.OW	
110111.120	(221)	3.73.		-	,		4	.011	
	-			-			=		
	-			-			_		
	-			-			(T)		
				-			2		
	-			*			-		
	27.			-			=		
REMARKS - W=MULTIP	LE LAYER	RS, X=STRI	PPED						

AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

	. POIL	SURVEI / PA	4 A EMEM I	50	ONDING IESI	. KEPOKI			
DATE - 08/ JOB NUMBER - BB C FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - D PROJECT ENGINEER - D PIT/QUARRY - ARKAM LOCATION - CRAWN SAMPLED BY - T.FRA SAMPLE FROM - TEST MATERIAL DESC PA	BE ASSI L SURVE SPECIFI ATE XXXXX NOT APPI VSAS FORD, CO ZIER HOLE	Y SAMPLE CATION CHEC				MATERI SPEC. SUPPLI COUNTY DISTRI	AL YEA ER /SI CT	NO 5 CODE - PSO R - 201 ID 1 PATE - 17 NO 04 PLED - EIVED - 08/	4
LAB NUMBER	-	20152648		-	20152649		-	20152650	
SAMPLE ID	_	20132040			20132013			20132030	
		TATEODAADET	NI ONT 17	77	T11000111000		-	THODANAMIC	NT
TEST STATUS			ON ONLY	=======================================					N ONLY
STATION		1.90 WB		4	2.15 EB			2.15 WB	
LOCATION	-	LOWP			LIWP		-	RIWP	
DEPTH IN FEET	-						-		
MAT'L COLOR	-			0.0			22		
MAT'L TYPE	-			-			-		
LATITUDE DEG-MIN-	·SEC -	35 27			35 27		-		
LONGITUDE DEG-MIN-	-SEC -	94 24	44.70		94 24	27.60		94 24 3	29.30
% PASSING 2	IN			22			-		
	IN			-			_		
	IN			-			-		
	3 IN			π_{i}^{*}			200		
	4 -			<u></u>			-		
	10 -			2			-		
	40 -			-			**		
	80 -			= ::					
	200 -			_			7		
NO.	200 -								
LIQUID LIMIT	-			-			-		
PLASTICITY INDEX	-			-			-		
AASHTO SOIL	-			\overline{x}			-		
UNIFIED SOIL	-			ī			_		
% MOISTURE CONTENT				-			_		
ACHMSC	(IN) -	4.5W		20	3.0			4.5W	
ACHMBC	(IN) -	8.0W		-	9.25W		-		
ACHMBC	(III)	0.0W		-	9.45W			8.5W	
	=			±10			02		
	-			\approx			-		
	=			-			-		
	=			(77.0)			100		
	=			_			64		
	-			~					
	=			-			-		

REMARKS = W=MULTIPLE LAYERS, X=STRIPPED

#10 #10

MICHAEL BENSON, MATERIALS ENGINEER

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

* *	* SOIL	SURVEY / PAVEMENT	SOUNDING TI	EST REPORT *	* *
DATE - 08/ JOB NUMBER - BBC FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - S PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWE	401 BE ASSI L SURVE SPECIFI TE XXXX IOT APPL	Y SAMPLE CATION CHECK ICABLE		MATERIAL SPEC. YEA SUPPLIER COUNTY/S	NO 6 CODE - PSO AR - 2014 ID 1 FATE - 17 NO 04
SAMPLED BY - T.FRA					EIVED - 08/26/15
SAMPLE FROM - TEST	HOLE			DATE TES	TED -
MATERIAL DESC PA	JEMENT S	SOUNDINGS ONLY			
LAB NUMBER	-	20152651	= 20152652	2	20152653
SAMPLE ID	-		=	×	
TEST STATUS					INFORMATION ONLY
STATION		2.40 EB	- 2.40 WB	=	2.65 EB LIWP
LOCATION DEPTH IN FEET	_	ROWP	= LOWP	=	TIME
MAT'L COLOR	_		<u> </u>	*	
MAT'L TYPE	_		-	-	
LATITUDE DEG-MIN-	SEC -	35 27 40.00	= 35 27	7 42.60	35 27 34.60
LONGITUDE DEG-MIN-	SEC -	94 24 13.60	94 24	1 14.80	94 23 59.20
% PASSING 2	IN		20	=	
1 1/2	IN e		¥	*	
-	IN		=	=	
	IN		## ##		
	4 - 10 -		2	=	
	40 -		#	=	
	80 -		5 2		
	200 -				
LIQUID LIMIT	_		<u> </u>	:=:	
PLASTICITY INDEX	_		-		
AASHTO SOIL	-			=	
UNIFIED SOIL	_		ž	-	
% MOISTURE CONTENT	-				
ACHMSC	(IN) -	5.0WX	- 5.75W	:-	5.5WX
ACHMBC	(IN) -	9.0W	7.50W	: := ::=	8.0WX
	= =		755 445	(B	
	-		= :	:=	
	77		 .	8.5	
	<u>=</u>		# ()	()	
	-		-	_	
	=		= :	100	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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MICHAEL BENSON, MATERIALS ENGINEER

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

	5011	, III			1121 0111	
DATE - 0	9/01/15				SEQUENCE	NO 7
JOB NUMBER - B	B0401				MATERIAL	CODE - PSO
FEDERAL AID NO T	O BE ASSI	GNED		SPEC. YEA	AR - 2014	
PURPOSE - S					SUPPLIER	ID 1
SPEC. REMARKS - N	O SPECIFI	CATION CHECK			COUNTY/ST	ATE - 17
SUPPLIER NAME - S	TATE				DISTRICT	NO 04
NAME OF PROJECT -	OKLAHOMA	STATE LINE TO	ARK.	NO.RR OVERP	ASS	
PROJECT ENGINEER -	NOT APPL	ICABLE				
PIT/QUARRY - ARK	ANSAS					
	WFORD, CO	UNTY			DATE SAM	PLED -
SAMPLED BY - T.FR	AZIER				DATE REC	EIVED - 08/26/15
SAMPLE FROM - TES	T HOLE				DATE TEST	red -
MATERIAL DESC F	PAVEMENT S	OUNDINGS ONLY				
LAB NUMBER	=	20152654	Ξ.	20152655	·=:	20152656
SAMPLE ID	_		-		5-3	
TEST STATUS	_	INFORMATION ON	LY -	INFORMATIO	N ONLY -	INFORMATION ONLY
STATION	_	2.65 WB	27	2.90 WB	.c.,	3.15 EB
LOCATION		RIWP	22	LOWP	2	LIWP
DEPTH IN FEET	_		-		-	
MAT'L COLOR	_		=		-	
MAT'L TYPE	-		⊒		. 	
LATITUDE DEG-MI	N-SEC -	35 27 36.20) =	35 27 3	34.10	35 27 34.90
LONGITUDE DEG-MI		94 24 .90			45.10	94 23 29.20
% PASSING 2			=		₩	
	/2 IN		= =		(E)	
	/4 IN		_		-	
	/8 IN		=			
	. 4 -		<u></u>			
_	10 -		22		-	
	. 40 -		-		-	
	80 -		=		·==	
NO	200 -					
LIQUID LIMIT	-		=		(20)	
PLASTICITY INDEX	-		=======================================		-	
AASHTO SOIL	-		-		= 1.5	
UNIFIED SOIL	_					
% MOISTURE CONTE	NT -		ā			
ACHMSC	(IN) -	4.5W	48	NO TEST	_	4.25W
ACHMBC	(IN) -	16.0W	#3		-	15.0W
	=		==0		-	
	20		-		-	
	¥		-		-	
	-				_	
	2 2				_	
	_		-		_	
	-				-	
DEMANDED to see or	TOT EL T N 17 P.P.	a w ampipula				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/28/ JOB NUMBER - BB0401 FEDERAL AID NO TO BE PURPOSE - SOIL S SPEC. REMARKS - NO SPE SUPPLIER NAME - STATE NAME OF PROJECT - XXXX PROJECT ENGINEER - NOT PIT/QUARRY - ARKANSAS LOCATION - CRAWFORL SAMPLED BY - T.FRAZIEL SAMPLE FROM - TEST HOL	ASSIGNED SURVEY SAMPLE ECIFICATION CHECK XX APPLICABLE S D, COUNTY R	SEQUENCE NO 8 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 DATE SAMPLED - 08/26/15 DATE TESTED - 08/26/15
MATERIAL DESC PAVEM	ENT SOUNDINGS ONLY	
LAB NUMBER	- 20152657	- 20152658 - 20152659
SAMPLE ID	-	#: #:
TEST STATUS		- INFORMATION ONLY - INFORMATION ONLY
STATION	- 3.15 WB	3.40 EB
LOCATION	- RIWP	ROWP
DEPTH IN FEET	-	₹. ≔
MAT'L COLOR MAT'L TYPE	-	E
LATITUDE DEG-MIN-SEC	35	- 35 27 40.40 - 35 27 49.20
	C - 94 23 29.20	_,
		21 23 13.00
	N	# %
1 1/2 IN		
3/4 IN		* -
3/8 IN NO. 4		= -
NO. 10		-
NO. 40		÷ -
	0 -	
NO. 200		
LIQUID LIMIT	_	
PLASTICITY INDEX	_	- *
AASHTO SOIL	_	- /=
UNIFIED SOIL	_	-
% MOISTURE CONTENT	-	-
ACHMSC (I	(N) - 4.25W	- 6.0W - 5.0W
	(N) - 12.50W	- 10.0W - 14.0W
, <u> </u>	_	***
	-	<u> </u>
	- -	
	-	*
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	-	E .
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

LAB NUMBER
SAMPLE ID
MAT'L TYPE
LATITUDE DEG-MIN-SEC - 35 27 50.90 - 35 27 55.30 - 35 27 57.20 LONGITUDE DEG-MIN-SEC - 94 23 3.40 - 94 22 49.30 - 94 22 49.80 % PASSING 2 IN
LONGITUDE DEG-MIN-SEC - 94 23 3.40 94 22 49.30 94 22 49.80 * PASSING 2 IN
<pre>% PASSING 2 IN</pre>
1 1/2 IN
3/4 IN
3/8 IN NO. 4 - NO. 10 - NO. 40 - NO. 80 - NO. 200 - LIQUID LIMIT - PLASTICITY INDEX - AASHTO SOIL - UNIFIED SOIL - WHOISTURE CONTENT - ACHMSC (IN) - 6.25W - 5.0W - 6.5W
NO. 4 -
NO. 10 - NO. 40 - NO. 80 - NO. 200 - LIQUID LIMIT - PLASTICITY INDEX - AASHTO SOIL - UNIFIED SOIL - WOISTURE CONTENT - ACHMSC (IN) - 6.25W - 5.0W - 6.5W
NO. 40 -
NO. 200 - LIQUID LIMIT
NO. 200 - LIQUID LIMIT
PLASTICITY INDEX
PLASTICITY INDEX
AASHTO SOIL
* MOISTURE CONTENT -
ACHMSC (IN) - 6.25W - 5.0W - 6.5W
ACHMBC (IN) - 9.25W - 11.0W - 7.0W
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/28/15 JOB NUMBER - BB0401 FEDERAL AID NO TO BE ASSIGNED PURPOSE - SOIL SURVEY SAMPLE SPEC. REMARKS - NO SPECIFICATION CHECK SUPPLIER NAME - STATE NAME OF PROJECT - XXXXX PROJECT ENGINEER - NOT APPLICABLE PIT/QUARRY - ARKANSAS LOCATION - CRAWFORD, COUNTY SAMPLED BY - T.FRAZIER SAMPLE FROM - TEST HOLE MATERIAL DESC PAVEMENT SOUNDINGS ONLY	SEQUENCE NO 10 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 DATE SAMPLED - 08/26/15 DATE TESTED - 08/26/15
LAB NUMBER - 20152663	= 20152664 = 20152665
SAMPLE ID -	2 28
	- INFORMATION ONLY - INFORMATION ONLY
STATION - 4.15 EB	- 4.15 WB - 4.40 EB
LOCATION - LIWP	T RIWP TOWP
DEPTH IN FEET -	-
MAT'L COLOR -	e es
MAT'L TYPE - LATITUDE DEG-MIN-SEC - 35 27 55.00	= 35 27 56.50 = 35 27 52.60
LONGITUDE DEG-MIN-SEC - 94 22 33.90	94 22 34.50 94 22 18.20
	51 22 54.30
% PASSING 2 IN	-
1 1/2 IN 3/4 IN	
3/4 IN	-
NO. 4 -	18 ·
NO. 10 -	7E
NO. 40 -	- 13 - 2 2
NO. 80 -	
NO. 200 -	
LIQUID LIMIT -	
PLASTICITY INDEX -	· ·
AASHTO SOIL -	±
UNIFIED SOIL -	# 50
% MOISTURE CONTENT -	
ACHMSC (IN) - 4.5W	- 4.75W - 4.5W
ACHMBC (IN) - 8.75W	- 9.25W - 8.0W
-	
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 2	¥ **
*	₩
# 12	
5 2	- 50 (주) - 일

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/ JOB NUMBER - BBO FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - X PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	401 BE ASSI L SURVE SPECIFI TE XXXX OT APPI ISAS ORD, CO	Y SAMPLE CATION CHECK ICABLE		SPEC. YEA SUPPLIER COUNTY/ST DISTRICT	CODE - PSO AR - 2014 ID 1 FATE - 17 NO 04 PLED - 08/26/15
MATERIAL DESC PAV	JEMENT S	SOUNDINGS ONLY			
LAB NUMBER SAMPLE ID TEST STATUS STATION	- - -		- 20152667 - LY - INFORMATION - 4.65 EB	ON ONLY -	20152668 INFORMATION ONLY 4.65 WB
LOCATION	=0	LOWP	LIWP	~	RIWP
DEPTH IN FEET	27		_	-	
MAT'L COLOR MAT'L TYPE	≅8 22		-	-	
LATITUDE DEG-MIN-	SEC -	35 27 54.60	- - 35 27	50.70 -	35 27 52.10
LONGITUDE DEG-MIN-				2.50	94 22 3.00
% PASSING 2 1 1/2 3/4 3/8 NO. NO. NO.			7 2 2 7 7 2 2 4		
LIQUID LIMIT	#3		₩	-	
PLASTICITY INDEX	27		-	₩.	
AASHTO SOIL	= 1			1574	
UNIFIED SOIL	<u>=</u>		5 2	-	
% MOISTURE CONTENT	-				
ACHMSC ACHMBC	(IN) - (IN) -	4.25W 8.25W	- 5.5W - 6.5W - - - -		4.0WX 8.0W

REMARKS W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

• •	, 20IT	SURVEI / PAVEMENI	50	ONDING TEST REPORT """	
DATE - 08/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - X PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST MATERIAL DESC PAX	401 BE ASSI L SURVE SPECIFI TE XXXX OT APPL ISAS ORD, CO	Y SAMPLE CATION CHECK ICABLE UNTY		SEQUENCE NO 12 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 DATE SAMPLED - 08/26/15 DATE TESTED - 08/26/15	
LAB NUMBER	-	20152669	*	20152670 = 20152671	
SAMPLE ID	_	20132009		20132071	
	_	TATEODMA ELONI ONI V	-	TATEODMARITON ONLY THEODMARION ONLY	1,7
TEST STATUS STATION				INFORMATION ONLY - INFORMATION ONLY 5.15 EB 5.15 WB	I
			94.0	LIWP RIWP	
LOCATION	_	ROWP	**	TIMP RIMP	
DEPTH IN FEET	-		=	=	
MAT'L COLOR	=		=	=	
MAT'L TYPE	-	25 25 42 22	=0	25 07 45 50	
LATITUDE DEG-MIN-					
LONGITUDE DEG-MIN-	SEC -	94 21 47.00		94 21 32.00 94 21 30.50	
% PASSING 2	IN		-	-	
1 1/2	IN		2	-	
3/4	IN		-	-	
	IN		57	-	
·	4 -		Ē	-	
	10 -		-	-	
	40 -		_	-	
NO.			<u></u>	- -	
NO.					
LIQUID LIMIT	-		-	:=:	
PLASTICITY INDEX	-		-	(表) 1884	
AASHTO SOIL	-		_		
UNIFIED SOIL	-		_	=	
% MOISTURE CONTENT	-				
ACHMSC	(IN) -	3.5W	-	4.5W - 4.5WX	
ACHMBC	(IN) -	9.0W		15.0W - 10.0W	
	= ($\overline{}$	=======================================	
	2		-	-	
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	5 1. ≘		**	-	
	2		575 120		
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	-			-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/2 JOB NUMBER - BB04 FEDERAL AID NO TO F PURPOSE - SOII SPEC. REMARKS - NO S SUPPLIER NAME - STAT NAME OF PROJECT - XX PROJECT ENGINEER - NO PIT/QUARRY - ARKANS LOCATION - CRAWFO SAMPLED BY - T.FRAZ SAMPLE FROM - TEST F MATERIAL DESC PAV	NO1 BE ASSI SURVE SPECIFI FE KXXX DT APPL SAS DRD, CO IER HOLE	Y SAMPLE CATION CHECK ICABLE UNTY		SEQUENCE NO 13 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 DATE SAMPLED - DATE RECEIVED - 08/26/15 DATE TESTED -	5
LAB NUMBER	-	20152672	=	20152673 - 20152674	
SAMPLE ID	-		æ.,	-	
TEST STATUS	<u> </u>	INFORMATION ONLY	-	INFORMATION ONLY - INFORMATION ON	LΥ
STATION		5.40 EB	<u>~</u>	5.40 WB - 5.65 EB	
LOCATION		ROWP		LOWP _ LIWP	
DEPTH IN FEET	=		<u></u>	-	
MAT'L COLOR MAT'L TYPE	20		*	-	
LATITUDE DEG-MIN-S	EFC =	35 27 44.10	-	- 35 27 45.80 - 35 27 42.60	ı
LONGITUDE DEG-MIN-S			=	94 21 14.70 94 21 .60	
% PASSING 2 1 1/2	IN		-	-	
	IN		-	-	
-	IN.		-	壸	
	4 -		=	<u> </u>	
	10 -		-	*	
NO.	40 -		- 2		
NO.	80 -		Ξ.	₩ ₩	
NO. 2	200 =				
LIQUID LIMIT	-		*	-	
PLASTICITY INDEX	=		77	**	
AASHTO SOIL	**		7	**************************************	
UNIFIED SOIL	-			-	
% MOISTURE CONTENT	=		_		
ACHMSC	(IN) -	4.0W	-	5.0W = 4.25WX	
ACHMBC	(IN) -	13.5W	77	11.5 9.0W	
	=		-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	-		-	· · · · · · · · · · · · · · · · · · ·	
	=		-)	
			_	·	
			-	(A)	
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REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

MICHAEL BENSON, MATERIALS ENGINEER

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

	DOIL	BORVET / TITVERIEN	1 DOUNDING 11D	I KELLOKI	
DATE - 08/ JOB NUMBER - BB0 FEDERAL AID NO TO PURPOSE - SOI SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - X PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST MATERIAL DESC PAX	401 BE ASSI L SURVE SPECIFI TE XXXX OT APPI SAS ORD, CO ZIER HOLE	Y SAMPLE CATION CHECK ICABLE OUNTY		MATERIAL SPEC. YEA SUPPLIER COUNTY/ST DISTRICT DATE SAM	EIVED - 08/26/15
LAB NUMBER	-	20152675	- 20152676	# 3	20152677
SAMPLE ID	_		_		
TEST STATUS		TNEODMATION ON	Z TNEODMATT	ON ONLY -	INFORMATION ONLY
	=	INFORMATION ONL			5.90 WB
STATION		5.65WB	5.90 EB	_	
LOCATION	-	RIWP	ROWP	-	LOWP
DEPTH IN FEET	-		_	-	
MAT'L COLOR	-		=		
MAT'L TYPE	-		2	940	
LATITUDE DEG-MIN-	SEC -	35 27 43.80	- 35 27	40.80	35 27 42.60
LONGITUDE DEG-MIN-	SEC -	94 20 59.10	94 20	44.80	94 20 43.10
% PASSING 2			-	30	
	IN		_	= 0	
3/4	IN		-	· ·	
3/8	IN		-		
NO.	4 -		_	=).	
NO.	10 -		_		
	40 -		_		
NO.	80 -		_		
NO.					
LIQUID LIMIT	-		=	-	
PLASTICITY INDEX	-		+	_	
AASHTO SOIL	-			-	
UNIFIED SOIL	-			-	
% MOISTURE CONTENT	-		-		
ACHMSC	(IN) -	6.0W	- 4.0WX	-	4.0W
ACHMBC	(IN) -	6.5W	9.0W	-	7.0W
ACHIBC	(TIV)	0.5%	9.0W	<u> </u>	7.0W
	=		(20) (21)		
			34 1	-	
	=	O.	H.	5 -	
	=		50	-	
	-		2 0	192	
	-		×.	170	
	==		= 0	186	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

#3 #3

MICHAEL BENSON, MATERIALS ENGINEER

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

	POIL	DORVET /	EMVENENT	50	ONDING IED.	REFOR	Τ		
JOB NUMBER - BBO FEDERAL AID NO TO	BE ASSIL SURVE SPECIFIATE (XXXX NOT APPI NSAS FORD, CO ZIER HOLE	Y SAMPLE CATION CH LICABLE DUNTY				MATERI SPEC. SUPPLI COUNTY DISTRI	TAL YEA TER T/ST TCT SAMT	ID CATE - NO	PSO 2014 1 17 04
LAB NUMBER	-	20152678		125	20152679		-	2015268	0
SAMPLE ID	22			_					-
		TNFORMAT	TON ONLY	2	INFORMATIO	V.TMO MC	4	TNFORMA	VINO NOTT
STATION		6.15 EB	ION ONLI	22	6.15 WB	ON ONLI		6.40 EB	1101 01111
LOCATION		LIWP		**	RIWP			ROWP	
DEPTH IN FEET	-	TITME		=	KIVI		=	ROWF	
				2			-		
MAT'L COLOR MAT'L TYPE	#			***			-		
		35 37	20.40	**	25 05	40.00		25 2	7 27 50
LATITUDE DEG-MIN-		35 27		77	35 27		300		7 37.50
LONGITUDE DEG-MIN-	-SEC -	94 20	27.70		94 20	28.90		94 2	0 11.80
% PASSING 2	IN			_			_		
1 1/2	! IN			-			_		
	IN			-			-		
	3 IN			-			~		
	4 -			-			-		
	10 -			-			-		
	40 -			_			-		
NO.	80 =			_			_		
NO.									
LIQUID LIMIT	=======================================			-			-		
PLASTICITY INDEX	-			-			-		
AASHTO SOIL	-			-					
UNIFIED SOIL	H			-					
% MOISTURE CONTENT				-					
ACHMSC	(IN) -	4.0W		_	4.25WX		-	4.75W	†
ACHMBC	(IN) -	7.0W		-	6.5W			9.0W	
110111120	(114)	7.011		2	-0.511		-	J. 0W	
	-			<u></u>			-		
	-			*					
	-			77			-		
	-			=			-		
	-			22			-		
	-			-			-		
	_			-					

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

5 57 57

AASHTO TESTS : T24 T88 T89 T90 T265

MICHAEL BENSON, MATERIALS ENGINEER

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

**	* SOIL SURVEY / PAVEMENT	SOUNDING TEST REPORT ***		
SPEC. REMARKS - NO SUPPLIER NAME - STA NAME OF PROJECT - X PROJECT ENGINEER - N PIT/QUARRY - ARKAN LOCATION - CRAWF SAMPLED BY - T.FRAZ SAMPLE FROM - TEST	0401 BE ASSIGNED LL SURVEY SAMPLE SPECIFICATION CHECK ATE KXXXX NOT APPLICABLE NSAS FORD, COUNTY	SEQUENCE NO 16 MATERIAL CODE - PSO SPEC. YEAR - 2014 SUPPLIER ID 1 COUNTY/STATE - 17 DISTRICT NO 04 DATE SAMPLED - DATE RECEIVED - 08/26/15 DATE TESTED -		
LAB NUMBER	- 20152681	- 20152682 - 20152683		
SAMPLE ID TEST STATUS STATION LOCATION DEPTH IN FEET MAT'L COLOR MAT'L TYPE LATITUDE DEG-MIN-	-	- INFORMATION ONLY - INFORMATION ONLY - 6.65 EB - 6.65 WB - LIWP - RINP		
LONGITUDE DEG-MIN-	SEC - 94 20 13.10	94 19 56.40 94 19 57.90		
3/4 3/8 NO. NO. NO.	IN IN IN IN IN IN IN 4 - 10 - 40 - 80 - 200 -			
LIQUID LIMIT	æ≀.	<u>.</u>		
PLASTICITY INDEX AASHTO SOIL UNIFIED SOIL % MOISTURE CONTENT		# ## ## ## ## ## ## ## ## ## ## ## ## #		
ACHMSC	(IN) - 3.25W	- 4.75W - 5.5WX		
ACHMBC	(IN) = 7.50W	- 12.25W - 6.5W		
	=			
	=			
	=	8 8		
	<u>~</u> 	25 25 25 25 25 25 25 25 25 25 25 25 25 2		
	-			
	<u>x</u>	a: 15		
REMARKS - W=MULTIPLE LAYERS, X=STRIPPED				

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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MICHAEL BENSON, MATERIALS ENGINEER

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

WWW DOID DORVEI / PAVEMENT	DOGNDING TEBT REPORT
DATE - 08/28/15	SEQUENCE NO. = 17
JOB NUMBER - BB0401	MATERIAL CODE - PSO
FEDERAL AID NO TO BE ASSIGNED	SPEC. YEAR - 2014
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID 1
SPEC. REMARKS - NO SPECIFICATION CHECK	
SUPPLIER NAME - STATE	DISTRICT NO 04
NAME OF PROJECT - XXXXX	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CRAWFORD, COUNTY	DATE SAMPLED -
SAMPLED BY - T.FRAZIER	DATE RECEIVED - 08/26/15
SAMPLE FROM - TEST HOLE	DATE TESTED
MATERIAL DESC PAVEMENT SOUNDINGS ONLY	
LAB NUMBER - 20152684	= 20152685 = =
SAMPLE ID -	
TEST STATUS - INFORMATION ONLY	
	- 6.90 WB
LOCATION - ROWP	LOWP
DEPTH IN FEET -	∞ ∰
MAT'L COLOR -	± ±
MAT'L TYPE -	
LATITUDE DEG-MIN-SEC - 35 27 27.90	- 35 27 30.20 -
LONGITUDE DEG-MIN-SEC - 94 19 42.40	94 19 44.80
% PASSING 2 IN	<u>.</u>
1 1/2 IN	
3/4 IN	3 5
3/8 IN	# E
NO. 4 -	± ±
NO. 10 -	. **
NO. 40 -	
NO. 80 -	<u> </u>
NO. 200 -	
LIQUID LIMIT	÷ 51
PLASTICITY INDEX -	
AASHTO SOIL -	
UNIFIED SOIL -	- 3
% MOISTURE CONTENT	
ACHMSC (IN) = 3.5W	- 4.25W
ACHMBC (IN) 14.5W	- 8.50W
=	(2)
÷	HA NH
	#X (##
	(R)
- -	
-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

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AASHTO TESTS : T24 T88 T89 T90 T265

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