ARKANSAS DEPARTMENT OF TRANSPORTATION

SUBSURFACE INVESTIGATION

STATE JOB NO. CA0801

FEDERAL AID PROJECT NO. ACNHPP-0071(31)

HWY. 110 – CLINTON (WIDENING) (S)

STATE HIGHWAY 65 **SECTION** 7

IN VAN BUREN **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

October 28, 2015

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: CA0801
Hwy. 110 – Clinton (Widening) (S)
Route 65 Section 7
Van Buren County

Transmitted herewith are the requested Soil Survey, Strength Data, and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 8.1 miles of Highway 65 to 4 lanes with a painted median. Samples were obtained in the existing travel lanes, shoulder and ditch line.

Based on laboratory results of samples obtained, the subgrade soils consist primarily low to highly plastic sandy clay with varying amounts of sandstone fragments. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction.

The preliminary cross sections indicate very large cuts and fills. If conventional cut slopes and fill slopes are utilized extreme right-of-way limits will be required and large quantities of excavation and fill will be needed. The attached drawings show alternatives to conventional methods that may be utilized on this project to minimize the right-of-way impacts. The first method is to use Gabion baskets and/or MSE Walls for the construction of cut and embankment slopes. Figure 1 demonstrates this application. The second method is to use internally reinforced embankments with a 1:1 slope configuration. Soil nail reinforced cut slopes could be used for a near vertical slope configuration. Figure 2 demonstrates this application. The Geotechnical Section is available to discuss these at your convenience. A site specific subsurface investigation for any of these alternatives will be required to make the final design recommendations.

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 Bee Branch.

2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.5	94.5
Binder Course	4.6	95.4
Base Course	4.3	95.7

Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment
cc: State Constr. Eng. – Master File Copy
District 8 Engineer
System Information and Research Div.
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE - 10/06/2015
JOB NUMBER - CA0801

SEQUENCE NO. - 1
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

JOB NAME - HWY.110-CLINTON (WIDENING) (S)

STATION LIMITS	R-VALUE AT 240 psi
BEGIN JOB - END JOB	LESS THAN 5
RESILIENT MODULUS	
STA.523+00	11954
STA.563+00	6991
STA.651+00	13191
STA.659+00	11090
STA.739+00	4470

REMARKS - STA.828+00 6365
- STA.892+00 8774

AASHTO TESTS : T190

JOB: CA0801

JOB NAME: HWY.110-CLINTON (WIDENING) (S)

COUNTY NO. 71 **DATE TESTED** 9/29/2015

Arkansas State Highway Transporation Department

Materials Division

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
523+00	46LT	0-5	BROWN	87	72	68	63	51	29	16	A-4(2)	RV381	
563+00	46RT	0-5	BROWN	90	86	83	81	78	52	30	A-7-6(24)	RV382	
651+00	32LT	0-5	BROWN	92	90	87	73	55	21	08	A-4(1)	RV383	
659+00	37RT	0-5	BROWN	85	81	75	62	52	28	14	A-6(4)	RV384	
739+00	38 RT	0-5	BROWN	94	93	91	87	85	68	42	A-7-6(39)	RV385	
788+00	37RT	0-5	BR/GR	100	100	100	100	94	73	46	A-7-6(50)	RV386	
828+00	26LT	0-5	BROWN	79	74	69	64	62	52	28	A-7-6(15)	RV387	
892+00	26LT	0-5	BROWN	95	92	90	89	88	56	32	A-7-6(31)	RV388	
500+00	16RT	0-5	BROWN	98	95	91	88	81	40	22	A-6(17)	S229	17.9
500+00	28RT	0-5	BROWN	99	94	88	83	77	32	15	A-6(10)	S230	18.3
500+00	36RT	0-5	BROWN	95	92	87	84	80	41	22	A-7-6(17)	S231	17.9
507+00	06LT	0-5	BR/GR	96	89	82	63	39	19	02	A-4(0)	S232	9.3
507+00	20LT	0-3.5Z	BR/GR	97	85	79	65	38	19	03	A-4(0)	S233	7.6
507+00	31LT	0-2.5Z	BROWN	99	97	95	88	49	ND	NP	A-4(0)	S234	6.8
515+00	19RT	0-5	BROWN	84	73	68	62	47	24	08	A-4(1)	S235	11.8
515+00	29RT	0-5	BROWN	97	89	82	75	50	21	06	A-4(0)	S236	13.9
515+00	46RT	0-5	BROWN	98	92	85	72	50	22	08	A-4(1)	S237	17
523+00	06LT	0-5	BR/GR	95	88	84	79	66	29	12	A-6(6)	S238	16.2
523+00	16LT	0-3Z	BR/GR	89	80	74	66	45	19	05	A-4(0)	S239	16.2
523+00	46LT	0-5	BROWN	93	88	83	77	60	31	15	A-6(6)	S240	15.7
531+00	17RT	0-5	RD/BR	98	93	88	77	65	27	12	A-6(5)	S241	31
531+00	30RT	0-5	RD/BR	97	92	87	84	78	49	24	A-7-6(19)	S242	24.4
531+00	47RT	0-5	RD/BR	88	79	76	75	73	48	26	A-7-6(18)	S243	26.6
539+00	06LT	0-5	BR/GR	94	86	77	67	54	28	13	A-6(4)	S244	15.2
539+00	17LT	0-5	BR/GR	96	91	87	81	70	33	17	A-6(10)	S245	20.4
539+00	33LT	0-1.5Z	BR/GR	92	87	78	67	43	22	04	A-4(0)	S246	18.8

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

Thursday, October 08, 2015

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
543+00	18RT	0-5	RD/BR	99	96	91	79	66	39	20	A-6(11)	S247	22.2
543+00	30RT	0-5	BROWN	96	90	84	72	57	33	15	A-6(6)	S248	25.2
543+00	55RT	0-3Z	BROWN	97	92	87	80	69	34	16	A-6(9)	S249	20.6
555+00	06LT	0-3.5Z	BR/GR	96	92	86	79	48	18	03	A-4(0)	S250	9.9
555+00	19LT	0-3.5Z	GRAY	86	78	73	58	38	17	02	A-4(0)	S251	12.1
555+00	33LT	0-3Z	BROWN	93	80	64	64	46	23	06	A-4(0)	S252	13.1
563+00	18RT	0-5	BROWN	98	88	76	67	58	30	13	A-6(5)	S253	25.9
563+00	28RT	0-5	BROWN	97	92	88	78	61	38	19	A-6(9)	S254	21.2
563+00	46RT	0-5	BROWN	99	96	93	90	84	47	22	A-7-6(20)	S255	30.1
571+00	08LT	0-5	BROWN	99	97	93	78	67	39	19	A-6(11)	S256	32.1
571+00	28LT	0-5	BR/GR	99	96	90	83	76	37	16	A-6(11)	S257	20
571+00	31LT	0-5	BROWN	96	88	81	66	44	26	11	A-6(1)	S258	21
579+00	16RT	0-5	BR/GR	92	84	75	66	59	26	12	A-6(4)	S259	16.9
579+00	27RT	0-5	BR/GR	95	90	85	69	53	24	11	A-6(3)	S260	18.1
579+00	38RT	0-3Z	BR/GR	94	88	81	70	59	34	16	A-6(7)	S261	13.6
587+00	06LT	0-5	BR/GR	97	92	86	73	58	33	15	A-6(6)	S262	24.6
587+00	18LT	0-5	BR/GR	97	92	88	74	60	34	17	A-6(7)	S263	23.1
587+00	33LT	0-5	BR/GR	97	94	88	82	72	40	22	A-6(14)	S264	22
595+00	18RT	0-5	BR/GR	95	89	85	74	66	32	14	A-6(7)	S265	20.8
595+00	29RT	0-5	BR/GR	99	98	94	63	44	24	10	A-4(1)	S266	25.8
595+00	41RT	0-5	BROWN	98	97	95	86	80	49	28	A-7-6(23)	S267	29.1
603+00	07LT	0-5	BR/GR	98	94	90	74	61	29	14	A-6(6)	S268	20.4
603+00	17LT	0-5	BROWN	95	89	82	63	49	22	08	A-4(1)	S269	33.1
603+00	25LT	0-5	BROWN	100	99	95	83	76	52	29	A-7-6(22)	S270	20.7
611+00	06RT	0-4.5Z	BR/GR	99	90	74	57	41	22	08	A-4(0)	S271	9.2
611+00	20RT	0-5	BR/GR	98	95	87	69	50	25	12	A-6(3)	S272	19.3
611+00	31RT	0-5	BR/GR	98	95	81	57	40	25	11	A-6(1)	S273	17.8
619+00	06LT	0-4.5Z	BR/GR	95	90	82	68	56	30	16	A-6(6)	S274	19.5

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

Thursday, October 08, 2015

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
619+00	19LT	0-5	BR/GR	95	85	75	67	61	34	19	A-6(9)	S275	24.6
619+00	26LT	0-5	BROWN	99	96	91	83	77	35	18	A-6(12)	S276	20.9
627+00	19RT	0-2Z	GRAY	94	87	80	48	28	ND	NP	A-2-4(0)	S277	12
627+00	28RT	0-5	BR/GR	96	92	86	72	57	24	10	A-4(3)	S278	19.2
627+00	36RT	0-5	BR/GR	100	100	100	100	91	51	27	A-7-6(27)	S279	17
635+00	06LT	0-5	BROWN	93	88	81	73	53	21	07	A-4(1)	S280	12.1
635+00	19LT	0-5	BR/GR	95	89	81	71	55	24	10	A-4(2)	S281	17.7
635+00	26LT	0-5	BROWN	90	85	80	65	45	22	09	A-4(1)	S282	13.8
643+00	19RT	0-4Z	BROWN	96	91	86	74	47	20	05	A-4(0)	S283	10
643+00	28RT	0-2.5Z	BR/GR	92	83	76	53	30	ND	NP	A-2-4(0)	S284	6.5
643+00	36RT	0-2.5Z	BROWN	93	85	77	58	33	ND	NP	A-2-4(0)	S285	11.9
651+00	08LT	0-5	GRAY	96	93	89	71	46	17	03	A-4(0)	S286	15.2
651+00	18LT	0-5	GRAY	99	97	94	81	62	22	09	A-4(3)	S287	10.1
651+00	32LT	0-5	BROWN	97	92	85	70	52	ND	NP	A-4(0)	S288	17.2
659+00	18RT	0-5	BROWN	96	91	86	73	58	25	10	A-4(3)	S289	20.3
659+00	27RT	0-5	BR/GR	96	88	80	63	46	20	05	A-4(0)	S290	15.9
659+00	37RT	0-5	BROWN	93	88	81	63	47	22	07	A-4(0)	S291	20.6
667+00	09LT	0-5	BR/GR	97	94	86	58	41	20	06	A-4(0)	S292	15.6
667+00	18LT	0-5	BR/GR	97	92	82	57	38	21	07	A-4(0)	S293	14.1
667+00	26LT	0-5	BROWN	99	97	83	52	44	32	16	A-6(3)	S294	15.9
675+00	18RT	0-5	BROWN	98	92	85	64	51	22	08	A-4(1)	S295	16.4
675+00	30RT	0-3.5Z	BROWN	94	91	86	63	49	22	07	A-4(1)	S296	22.2
675+00	38RT	0-5	BROWN	89	83	76	42	25	ND	NP	A-2-4(0)	S297	12.6
683+00	06LT	0-5	RD/BR	95	90	85	64	52	27	13	A-6(13)	S298	16.7
683+00	17LT	0-5	RD/BR	94	88	82	54	40	21	07	A-4(0)	S299	11.2
683+00	30LT	0-5	RD/BR	99	98	91	63	55	27	11	A-6(3)	S300	22.3
691+00	19RT	0-5	BROWN	96	81	80	71	58	28	11	A-6(4)	S301	22.9
691+00	30RT	0-4Z	BROWN	96	92	87	68	58	28	13	A-6(5)	S302	20.6

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

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
691+00	39RT	0-5	BROWN	90	85	77	67	58	33	16	A-6(6)	S303	18.9
700+00	06LT	0-5	BR/GR	91	84	78	68	51	27	11	A-6(3)	S304	18.2
700+00	17LT	0-5	BROWN	96	90	84	62	45	23	09	A-4(1)	S305	16.3
700+00	26LT	0-5	BR/GR	95	90	86	83	48	23	10	A-4(1)	S306	14.1
707+00	06RT	0-4Z	BROWN	99	96	91	50	31	ND	NP	A-2-4(0)	S307	7.9
707+00	18RT	0-3.5Z	BROWN	97	94	91	61	32	ND	NP	A-2-4(0)	S308	7.5
715+00	07LT	0-5	BR/GR	99	97	93	73	54	20	07	A-4(1)	S309	13.3
715+00	17LT	0-5	BR/GR	94	88	82	66	51	25	12	A-6(3)	S310	20.1
715+00	29LT	0-5	BR/GR	98	96	94	74	58	24	10	A-4(3)	S311	18.3
723+00	17 RT	0-5	BR/GR	98	94	90	75	57	18	04	A-4(0)	S312	16.4
723+00	27 RT	0-5	BROWN	99	96	93	75	63	27	14	A-6(16)	S313	20.1
723+00	40 RT	0-2.5	BROWN	92	88	84	67	53	22	09	A-4(2)	S314	15.2
731+00	08 LT	0-5	BROWN	98	95	91	56	32	ND	NP	A-2-4(0)	S315	10.5
731+00	18 LT	0-5	BR/GR	98	96	92	63	42	17	03	A-4(0)	S316	23.6
731+00	28 LT	0-5	BROWN	98	98	94	68	58	25	13	A-6(4)	S317	18.8
739+00	17 RT	0-5	BROWN	97	94	90	84	74	35	19	A-6(12)	S318	28.2
739+00	28 RT	0-5	BROWN	99	96	91	88	86	49	29	A-7-6(26)	S319	34.5
739+00	38 RT	0-5	BROWN	95	92	86	77	72	42	24	A-7-6(16)	S320	35.5
748+00	07 LT	0-5	BROWN	99	97	93	79	70	38	19	A-6(12)	S321	21.7
748+00	14 LT	0-5	BROWN	96	90	84	67	53	24	09	A-4(2)	S322	21.4
748+00	28 LT	0-5	BROWN	99	98	95	86	82	54	29	A-7-6(25)	S323	28.2
755+00	07 RT	0-5	BROWN	98	91	83	68	54	22	08	A-4(1)	S324	15.4
755+00	28 RT	0-5	BROWN	99	95	90	73	60	20	07	A-4(1)	S325	18.2
755+00	35 RT	0-5	BROWN	99	97	90	71	59	26	14	A-6(5)	S326	12.2
763+00	08LT	0-5	BR/GR	95	84	72	52	34	23	09	A-2-4(0)	S327	15.8
763+00	18LT	0-4.5Z	BR/GR	98	95	91	58	40	25	12	A-6(1)	S328	14.4
763+00	26LT	0-3Z	BR/GR	96	89	81	66	54	30	15	A-6(5)	S329	20
772+00	07RT	0-5	GRAY	97	86	71	60	52	29	12	A-6(3)	S330	16

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

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
772+00	18RT	0-5	BR/GR	94	86	80	55	42	20	07	A-4(0)	S331	23.8
772+00	27RT	0-5	BR/GR	95	85	77	64	58	37	20	A-6(9)	S332	21.9
780+00	06LT	0-4Z	BR/GR	97	92	84	57	45	22	09	A-4(1)	S333	15.3
780+00	17LT	0-3.5Z	BR/GR	93	83	71	54	36	19	04	A-4(0)	S334	20.5
780+00	31LT	0-3Z	BR/GR	98	94	89	57	42	18	04	A-4(0)	S335	12.2
788+00	07RT	0-5	BROWN	99	96	93	91	87	53	27	A-7-6(26)	S336	32.5
788+00	19RT	0-5	BROWN	94	88	83	67	55	41	20	A-7-6(8)	S337	24.7
788+00	37RT	0-5	BR/GR	100	100	100	100	98	66	36	A-7-5(42)	S338	29.1
796+00	06LT	0-5	BR/GR	99	96	92	79	60	29	16	A-6(6)	S339	21.8
796+00	19LT	0-5	BR/GR	96	91	87	67	44	24	11	A-6(1)	S340	19.4
796+00	30LT	0-5	BR/GR	95	92	88	77	67	35	19	A-6(10)	S341	23.2
804+00	16RT	0-5	BROWN	99	91	84	60	49	24	11	A-6(2)	S342	16.7
812+00	05LT	0-5	BR/GR	93	86	77	65	55	35	16	A-6(6)	S343	28.2
812+00	16LT	0-5	BR/GR	98	94	89	82	73	35	15	A-6(10)	S344	25.4
812+00	26LT	0-5	GRAY	100	100	100	100	92	48	22	A-7-6(23)	S345	19.9
820+00	18RT	0-5	BR/GR	99	98	91	64	53	25	12	A-6(3)	S346	23.5
820+00	26RT	0-5	BR/GR	96	93	85	56	45	21	07	A-4(0)	S347	23.3
828+00	06LT	0-5	BR/GR	98	95	89	78	64	28	12	A-6(5)	S348	23.1
828+00	18LT	0-5	BR/GR	91	84	80	70	55	24	07	A-4(1)	S349	24.6
828+00	26LT	0-5	BROWN	100	100	100	100	92	48	22	A-7-6(23)	S350	29.1
836+00	06RT	0-5	BR/GR	100	100	100	100	62	29	13	A-6(5)	S351	20.6
836+00	18RT	0-5	BROWN	98	90	80	63	47	24	08	A-4(1)	S352	21.3
836+00	26RT	0-5	BR/GR	86	84	75	64	59	21	01	A-4(0)	S353	20.5
844+00	06LT	0-5	BROWN	99	97	92	87	80	38	17	A-6(13)	S354	17.2
844+00	16LT	0-5	BROWN	96	93	89	80	69	36	17	A-6(10)	S355	16.4
844+00	25LT	0-5	BROWN	97	96	91	87	85	50	27	A-7-6(24)	S356	19.8
853+00	06RT	0-5	BR/GR	97	91	80	68	57	28	14	A-6(5)	S357	19.1
853+00	18RT	0-5	BROWN	96	91	83	66	55	27	15	A-6(5)	S358	18.4

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

Thursday, October 08, 2015

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E S					
853+00	26RT	0-5	BROWN	97	94	85	64	50	27	14	A-6(3)	S359	18.6
860+00	06LT	0-5	BR/GR	97	94	87	85	47	20	08	A-4(1)	S360	19.3
860+00	19LT	0-5	BR/GR	99	96	88	72	53	22	12	A-6(3)	S361	17
860+00	30LT	0-5	BROWN	99	97	90	72	63	32	18	A-6(8)	S362	17.2
868+00	06RT	0-5	GRAY	97	96	92	73	60	24	11	A-6(3)	S363	16.7
868+00	16RT	0-5	BR/GR	100	98	93	78	62	22	09	A-4(3)	S364	17.5
868+00	26RT	0-5	BROWN	100	99	96	86	69	29	15	A-6(8)	S365	20.7
876+00	06LT	0-2.5Z	GRAY	94	89	84	60	42	20	05	A-4(0)	S366	16.1
876+00	18LT	0-5	BR/GR	95	91	84	67	51	23	10	A-4(2)	S367	14.8
876+00	25LT	0-2Z	GRAY	88	81	69	53	41	24	09	A-4(0)	S368	18.8
884+00	07RT	0-4.5Z	GRAY	97	94	89	70	54	24	09	A-4(2)	S369	19.9
884+00	18RT	0-4.5Z	GRAY	98	97	93	79	71	35	20	A-6(12)	S370	28.2
884+00	29RT	0-4Z	GRAY	92	87	82	69	62	30	16	A-6(7)	S371	18.8
892+00	06LT	0-5	GRAY	97	93	87	68	54	23	10	A-4(2)	S372	22.8
892+00	17LT	0-5	BR/GR	98	98	91	84	80	55	32	A-7-6(27)	S373	26
892+00	26LT	0-5	BR/GR	99	96	90	73	58	22	07	A-4(1)	S374	24.1
900+00	06RT	0-2Z	GRAY	97	92	87	50	27	ND	NP	A-2-4(0)	S375	11.3
900+00	16RT	0-5	BR/GR	96	88	80	74	67	30	14	A-6(7)	S376	28.2
900+00	26RT	0-5	BR/GR	91	86	81	69	63	32	16	A-6(7)	S377	29.3
908+00	09LT	0-4Z	BR/GR	87	75	67	56	48	20	06	A-4(0)	S378	10.2
908+00	20LT	0-5	BR/GR	80	70	60	52	47	27	10	A-4(2)	S379	13.7
908+00	31LT	0-5	BR/GR	93	85	77	58	40	19	05	A-4(0)	S380	11.7

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

Thursday, October 08, 2015

JOB: CA0801
JOB NAME: HWY.110-CLINTON (WIDENING) (S)
COUNTY NO. 71

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

DATE TESTED
9/29/2015

PAVEMENT SOUNDINGS

STA.#	LOC.			
500+00	28RT	ACHMSC	AGG.BASE CRS CL-7	
		6.5	**12.0**	
500+00	36RT	ACHMSC	AGG.BASE CRS CL-7	
		--	--	
500+00	16RT	ACHMSC	AGG.BASE CRS CL-7	
		13.0W	**6.0**	
507+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.25	**3.0**	**6.0**
507+00	20LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		4.75W	--	**3.0**
507+00	31LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
515+00	46RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
515+00	19RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.0	**2.5**	**5.0**
515+00	29RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.75	--	**6.0**
523+00	46LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
523+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		8.5	**3.0**	**5.0**
523+00	16LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**3.0**
531+00	17RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.5	**2.25**	**7.0**
531+00	30RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**4.0**
531+00	47RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
539+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.25	**2.0**	**7.0**
539+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0	--	**6.0**

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

Thursday, October 08, 2015

539+00	33LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
543+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.5	**2.5**	**7.0**
543+00	55RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
543+00	30RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.5W	--	**6.0**
555+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.0	**1.5**	**7.0**
555+00	19LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.25	--	**3.0**
555+00	33LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
563+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		10.0	**2.5**	**8.0**
563+00	28RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.25	--	**7.0**
563+00	46RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
571+00	08LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		10.0	**2.0**	**5.0**
571+00	28LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.5	--	**5.0**
571+00	31LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
579+00	16RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.75W	**3.0**	**6.0**
579+00	27RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.25W	--	**5.0**
579+00	38RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
587+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.75W	**2.0**	**6.0**
587+00	18LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**6.0**
587+00	33LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--

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

595+00	41RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		--	--	--	
595+00	29RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		6.25	--	**5.0**	
595+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		9.75W	**5.0**	**6.0**	
603+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		7.0W	--	**10.0**	
603+00	25LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		--	--	--	
603+00	07LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		8.75W	**2.5**	**7.0**	
611+00	06RT	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS CL-7
		2.5	**3.0X**	**6.0**	**9.0**
611+00	20RT	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS CL-7
		5.75W	--	--	**7.0**
611+00	31RT	ACHMSC	ACHMSC	ACHMSC	AGG.BASE CRS CL-7
		--	--	--	--
619+00	26LT	ACHMSC	AHCMBC	AGG.BASE CRS CL-7	
		--	--	--	
619+00	06LT	ACHMSC	AHCMBC	AGG.BASE CRS CL-7	
		9.75W	**2.25**	**5.0**	
619+00	19LT	ACHMSC	AHCMBC	AGG.BASE CRS CL-7	
		6.0W	--	**6.0**	
627+00	36RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		--	--	--	
627+00	19RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		8.0W	**3.0**	**8.0**	
627+00	28RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		6.25W	--	**4.0**	
635+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		9.25W	**2.25**	**7.0**	
635+00	19LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		7.0W	--	**5.0**	
635+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		--	--	--	
643+00	36RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7	
		--	--	--	

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

643+00	19RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		8.0W	**3.0**	**9.0**		
643+00	28RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.0W	--	**11.0**		
651+00	32LT	ACHMSC	ACHMSC	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--	--	--
651+00	18LT	ACHMSC	ACHMSC	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.0W	--	--	--	**7.0**
651+00	08LT	ACHMSC	ACHMSC	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		2.0	**2.0X**	**4.5**	**1.75**	**7.0**
659+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		9.5	**2.5**	**4.0**		
659+00	27RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.25W	--	**6.0**		
659+00	37RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
667+00	09LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		8.75W	**2.0**	**6.0**		
667+00	18LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.5W	--	**6.0**		
667+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
675+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		7.75W	**3.5**	**11.0**		
675+00	30RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.25W	--	**4.0**		
675+00	38RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
683+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		9.0W	**2.0**	**7.0**		
683+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		7.0W	--	**4.0**		
683+00	30LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
691+00	39RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
691+00	19RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		8.5W	**3.0**	**5.0**		

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

STA.#	LOC.	PAVEMENT SOUNDINGS		
691+00	30RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**4.0**
700+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.5W	--	**5.0**
700+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
700+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.5W	**1.5**	**5.0**
707+00	06RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.5W	**2.0**	**5.0**
707+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**5.0**
715+00	07LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.0W	**2.25**	**5.0**
715+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.0W	--	**3.0**
715+00	29LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
723+00	40 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
723+00	17 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		8.75W	**2.5**	**9.0**
723+00	27 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	--	**4.0**
731+00	28 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
731+00	08 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		9.5W	**2.25**	**6.0**
731+00	18 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.75W	--	**2.0**
739+00	17 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		10.5W	**2.5**	**6.0**
739+00	28 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		8.0W	--	**6.0**
739+00	38 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
748+00	28 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--

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

748+00	07 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		9.5W	**2.5**	**3.0**		
748+00	14 LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		8.5W	--	**2.0**		
755+00	35 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
755+00	28 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.0W	--	**7.0**		
755+00	07 RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		9.25W	**2.25**	**8.0**		
763+00	08LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.25W	**6.0W**	**7.0**		
763+00	18LT	ACHMSC	ACHMBC	ACHMBC	ACHMBC	AGG.BASE CRS CL-7
		8.0W	--	--	--	**3.0**
763+00	26LT	ACHMSC	ACHMBC	ACHMBC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--	--	--
772+00	07RT	ACHMSC	ACHMBC	ACHMBC	ACHMBC	AGG.BASE CRS CL-7
		6.3W	**2.0**	**2.0X**	**3.5**	**9.0**
772+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		4.0	--	**8.0**		
772+00	27RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
780+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		4.75	**2.0**	**3.0**		
780+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		3.5	--	**6.0**		
780+00	31LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
788+00	07RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		6.5W	**2.5**	**8.0**		
788+00	19RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		4.25	--	**8.0**		
788+00	37RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		--	--	--		
796+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7		
		5.5	**2.0**	**6.0**		
796+00	19LT	ACHMSC	AGG.BASE CRS CL-7			
		3.5	**4.0**			

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

796+00	30LT	ACHMSC	AGG.BASE CRS CL-7	
		--	--	
804+00	16RT	ACHMSC	AGG.BASE CRS CL-7	
		4.0	**9.0**	
812+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
812+00	16LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		2.75	--	**7.0**
812+00	05LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.25	**4.0**	**5.0**
820+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		4.0	--	**9.0**
820+00	26RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
828+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		7.25W	**2.5**	**5.0**
828+00	18LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		2.25	--	**6.0**
828+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
836+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**9.0**
836+00	26RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
836+00	06RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.5	**2.0**	**6.0**
844+00	16LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		4.5W	--	--
844+00	25LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
844+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.75	**2.5**	**7.0**
853+00	06RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.5	**2.0**	**10.0**
853+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**11.0**
853+00	26RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--

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

860+00	19LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		4.0	--	--
860+00	30LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
860+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.75	**2.0**	**6.0**
868+00	06RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.25	**1.75**	**5.0**
868+00	16RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**7.0**
868+00	26RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
876+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		5.5	**1.5**	**6.0**
876+00	18LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**6.0**
876+00	25LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
884+00	18RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		4.5	--	**9.0**
884+00	29RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
884+00	07RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0W	**2.0**	**9.0**
892+00	17LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**3.0**
892+00	26LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
892+00	06LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0	**2.0**	--
900+00	06RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		6.0	**1.5**	**8.0**
900+00	16RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		3.5	--	**10.0**
900+00	26RT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		--	--	--
908+00	31LT	ACHMSC	AGG.BASE CRS CL-7	
		--	--	

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

908+00	09LT	ACHMSC	ACHMBC	AGG.BASE CRS CL-7
		10.0W	**2.25**	**10.0**
908+00	20LT	ACHMSC	AGG.BASE CRS CL-7	
		12.0W	**6.0**	

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

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	523+00
Date Tested:	September 24, 2015	**Location:**	46'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152224	**AASHTO Class:**	A-4(2)
Sample ID:	RV381	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.97
Middle	3.97
Bottom	3.97
Average	3.97
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.01
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.01
Initial Area, Ao (sq. in):	12.29
Initial Volume, AoLo (cu. in):	98.48

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3292.30

4. Soil Properties:

Optimum Moisture Content (%):	15.1
Maximum Dry Density (pcf):	113.5
95% of MDD (pcf):	107.8
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3292.30
Compaction Moisture content (%):	15.1
Compaction Wet Density (pcf):	127.38
Compaction Dry Density (pcf):	110.67
Moisture Content After Mr Test (%):	14.6

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

7. Resilient Modulus, Mr: 20369(Sc)^-0.30425(S3)^0.19890

8. Comments _____

9. Tested By: DEB **Date:** September 24, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	523+00
Date Tested:	September 24, 2015	**Location:**	46'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152224	**AASHTO Class:**	A-4(2)
Sample ID:	RV381	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.3	22.5	2.8	2.1	1.8	0.2	0.00063	0.00008	23,334
Sequence 2	6.0	4.0	47.3	44.5	2.8	3.8	3.6	0.2	0.00139	0.00017	20,791
Sequence 3	6.0	6.0	70.0	66.2	3.7	5.7	5.4	0.3	0.00229	0.00029	18,887
Sequence 4	6.0	8.0	93.4	87.2	6.2	7.6	7.1	0.5	0.00356	0.00044	15,966
Sequence 5	6.0	10.0	115.7	107.0	8.7	9.4	8.7	0.7	0.00504	0.00063	13,826
Sequence 6	4.0	2.0	25.1	22.3	2.8	2.0	1.8	0.2	0.00067	0.00008	21,830
Sequence 7	4.0	4.0	47.1	44.2	2.8	3.8	3.6	0.2	0.00154	0.00019	18,694
Sequence 8	4.0	6.0	68.6	65.8	2.9	5.6	5.3	0.2	0.00258	0.00032	16,610
Sequence 9	4.0	8.0	91.9	86.5	5.4	7.5	7.0	0.4	0.00378	0.00047	14,893
Sequence 10	4.0	10.0	114.6	106.7	7.9	9.3	8.7	0.6	0.00527	0.00066	13,185
Sequence 11	2.0	2.0	25.0	22.2	2.8	2.0	1.8	0.2	0.00077	0.00010	18,742
Sequence 12	2.0	4.0	46.8	43.9	2.9	3.8	3.6	0.2	0.00177	0.00022	16,184
Sequence 13	2.0	6.0	68.1	65.2	2.9	5.5	5.3	0.2	0.00293	0.00037	14,476
Sequence 14	2.0	8.0	90.3	85.8	4.5	7.3	7.0	0.4	0.00425	0.00053	13,146
Sequence 15	2.0	10.0	112.7	105.7	7.0	9.2	8.6	0.6	0.00576	0.00072	11,954

TESTED BY DEB DATE September 24, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

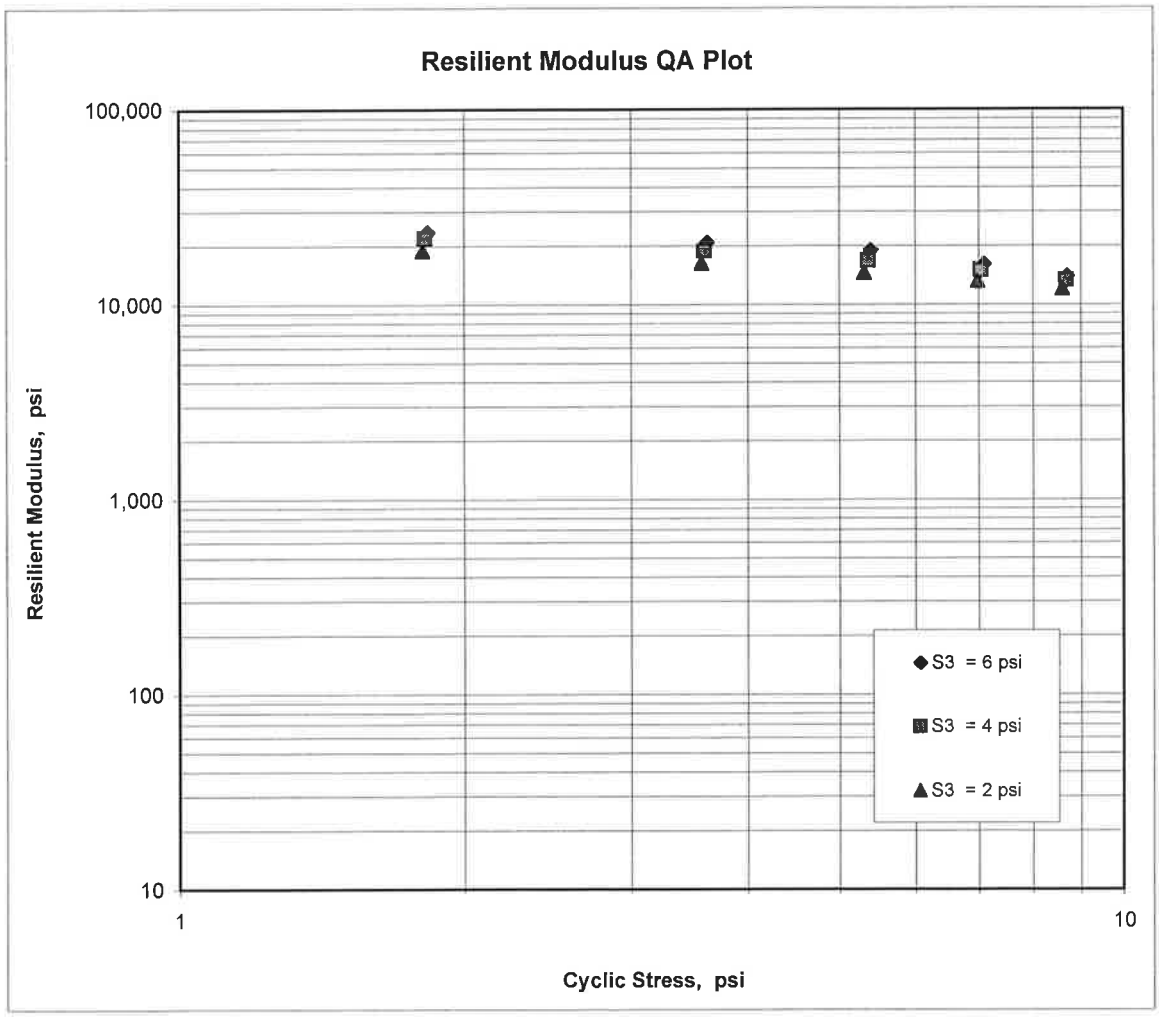
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	523+00
Date Tested:	September 24, 2015	**Location:**	46'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152224	**AASHTO Class:**	A-4(2)
Sample ID:	RV381	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

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

K1 = 20,369
K2 = -0.30425
K5 = 0.19890
R^2 = 0.95



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	563+00
Date Tested:	September 25, 2015	**Location:**	46'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152225	**AASHTO Class:**	A-7-6(24)
Sample ID:	RV382	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.96
Middle	3.97
Bottom	3.97
Average	3.97
Membrane Thickness (in):	0.01
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):	98.56

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	2932.70

4. Soil Properties:

Optimum Moisture Content (%):	24.1
Maximum Dry Density (pcf):	96.9
95% of MDD (pcf):	92.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	2932.70
Compaction Moisture content (%):	24.6
Compaction Wet Density (pcf):	113.38
Compaction Dry Density (pcf):	90.99
Moisture Content After Mr Test (%):	24.6

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

7. Resilient Modulus, Mr: 13898(Sc)^-0.33706(S3)^0.13102

8. Comments _____

_____

9. Tested By: DEB **Date:** September 25, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	563+00
Date Tested:	September 25, 2015	**Location:**	46'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152225	**AASHTO Class:**	A-7-6(24)
Sample ID:	RV382	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.2	22.5	2.7	2.1	1.8	0.2	0.00107	0.00013	13,676
Sequence 2	6.0	4.0	47.4	44.6	2.8	3.9	3.6	0.2	0.00235	0.00029	12,449
Sequence 3	6.0	6.0	69.7	65.9	3.7	5.7	5.4	0.3	0.00390	0.00049	11,056
Sequence 4	6.0	8.0	90.9	84.6	6.3	7.4	6.9	0.5	0.00617	0.00077	8,975
Sequence 5	6.0	10.0	110.9	102.1	8.8	9.0	8.3	0.7	0.00872	0.00109	7,660
Sequence 6	4.0	2.0	25.2	22.4	2.9	2.1	1.8	0.2	0.00117	0.00015	12,568
Sequence 7	4.0	4.0	47.2	44.2	2.9	3.8	3.6	0.2	0.00250	0.00031	11,567
Sequence 8	4.0	6.0	68.1	65.2	2.9	5.6	5.3	0.2	0.00417	0.00052	10,223
Sequence 9	4.0	8.0	89.8	84.4	5.5	7.3	6.9	0.4	0.00632	0.00079	8,726
Sequence 10	4.0	10.0	110.2	102.4	7.8	9.0	8.3	0.6	0.00889	0.00111	7,539
Sequence 11	2.0	2.0	25.2	22.3	2.8	2.0	1.8	0.2	0.00125	0.00016	11,658
Sequence 12	2.0	4.0	46.8	44.0	2.9	3.8	3.6	0.2	0.00273	0.00034	10,551
Sequence 13	2.0	6.0	67.6	64.7	2.8	5.5	5.3	0.2	0.00456	0.00057	9,292
Sequence 14	2.0	8.0	88.0	83.5	4.5	7.2	6.8	0.4	0.00682	0.00085	8,010
Sequence 15	2.0	10.0	108.7	101.8	6.9	8.9	8.3	0.6	0.00953	0.00119	6,991

TESTED BY DEB DATE September 25, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

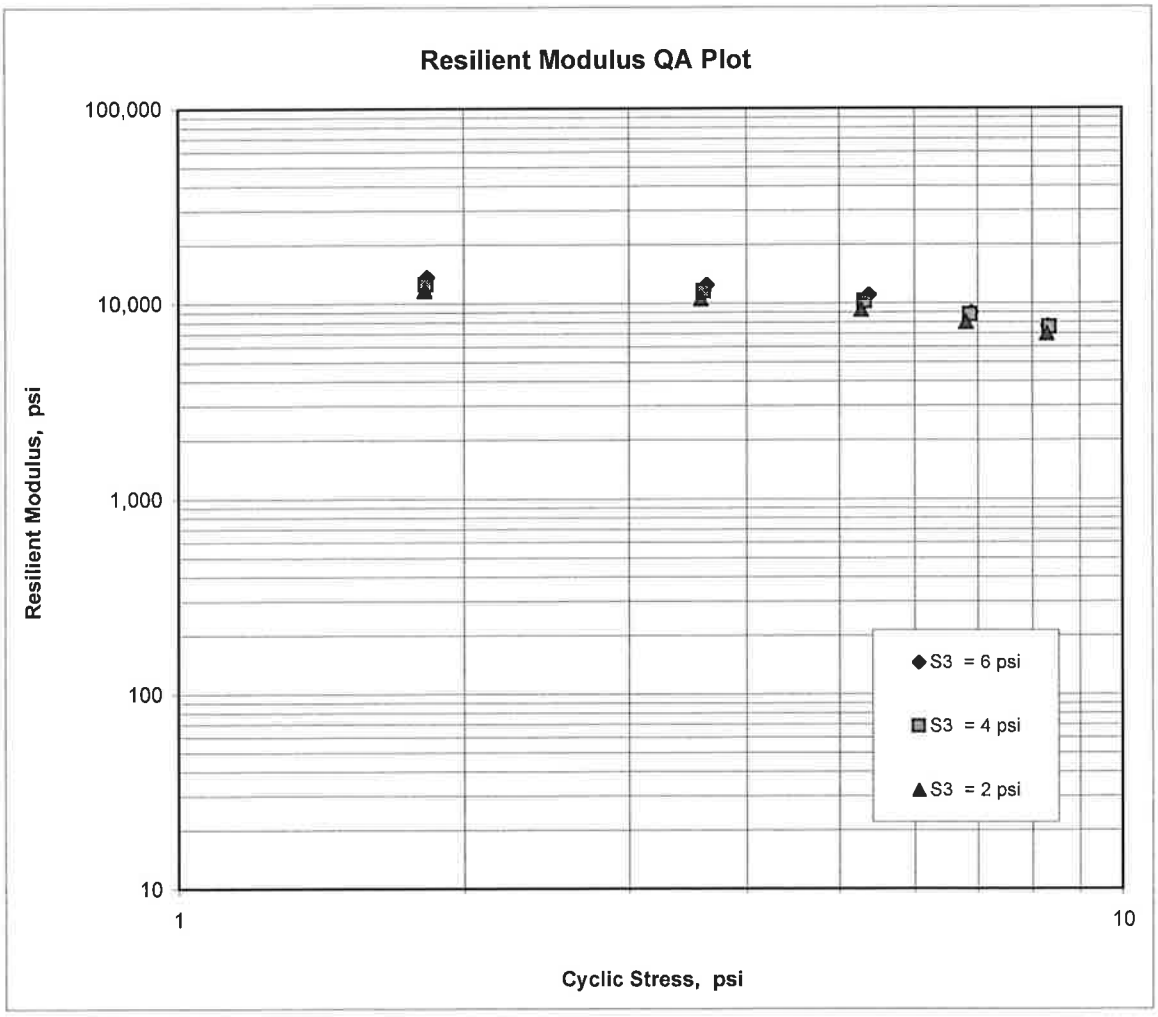
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	563+00
Date Tested:	September 25, 2015	**Location:**	46'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152225	**AASHTO Class:**	A-7-6(24)
Sample ID:	RV382	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

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

K1 = 13,898
K2 = -0.33706
K5 = 0.13102
R^2 = 0.88



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	651+00
Date Tested:	September 24, 2015	**Location:**	32'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152226	**AASHTO Class:**	A-4(1)
Sample ID:	RV383	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.97
Middle	3.96
Bottom	3.97
Average	3.97
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.01
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.01
Initial Area, Ao (sq. in):	12.27
Initial Volume, AoLo (cu. in):	98.31

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3209.00

4. Soil Properties:

Optimum Moisture Content (%):	11.7
Maximum Dry Density (pcf):	116
95% of MDD (pcf):	110.2
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3209.00
Compaction Moisture content (%):	11.3
Compaction Wet Density (pcf):	124.37
Compaction Dry Density (pcf):	111.74
Moisture Content After Mr Test (%):	11.2

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

7. Resilient Modulus, Mr: 16579(Sc)^-0.17743(S3)^0.22491

8. Comments _____

9. Tested By: DEB **Date:** September 24, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	651+00
Date Tested:	September 24, 2015	**Location:**	32'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152226	**AASHTO Class:**	A-4(1)
Sample ID:	RV383	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.3	22.5	2.7	2.1	1.8	0.2	0.00067	0.00008	21,951
Sequence 2	6.0	4.0	47.6	44.8	2.8	3.9	3.6	0.2	0.00142	0.00018	20,622
Sequence 3	6.0	6.0	70.4	66.7	3.7	5.7	5.4	0.3	0.00223	0.00028	19,510
Sequence 4	6.0	8.0	94.4	88.3	6.1	7.7	7.2	0.5	0.00328	0.00041	17,537
Sequence 5	6.0	10.0	118.1	109.4	8.6	9.6	8.9	0.7	0.00443	0.00055	16,116
Sequence 6	4.0	2.0	25.3	22.5	2.8	2.1	1.8	0.2	0.00074	0.00009	19,826
Sequence 7	4.0	4.0	47.3	44.5	2.8	3.9	3.6	0.2	0.00164	0.00020	17,747
Sequence 8	4.0	6.0	69.3	66.4	2.9	5.6	5.4	0.2	0.00260	0.00032	16,666
Sequence 9	4.0	8.0	93.3	88.0	5.2	7.6	7.2	0.4	0.00363	0.00045	15,823
Sequence 10	4.0	10.0	117.0	109.4	7.6	9.5	8.9	0.6	0.00476	0.00059	15,004
Sequence 11	2.0	2.0	25.1	22.3	2.8	2.0	1.8	0.2	0.00084	0.00010	17,399
Sequence 12	2.0	4.0	47.1	44.2	2.8	3.8	3.6	0.2	0.00186	0.00023	15,547
Sequence 13	2.0	6.0	68.7	65.9	2.9	5.6	5.4	0.2	0.00295	0.00037	14,547
Sequence 14	2.0	8.0	91.6	87.2	4.4	7.5	7.1	0.4	0.00411	0.00051	13,833
Sequence 15	2.0	10.0	114.9	108.0	6.8	9.4	8.8	0.6	0.00534	0.00067	13,191

TESTED BY DEB DATE September 24, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS

RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/24/15	**Station No.:**	651+00
Date Tested:	September 24, 2015	**Location:**	32'LT
Name of Project:	HWY.110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152226	**AASHTO Class:**	A-4(1)
Sample ID:	RV383	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

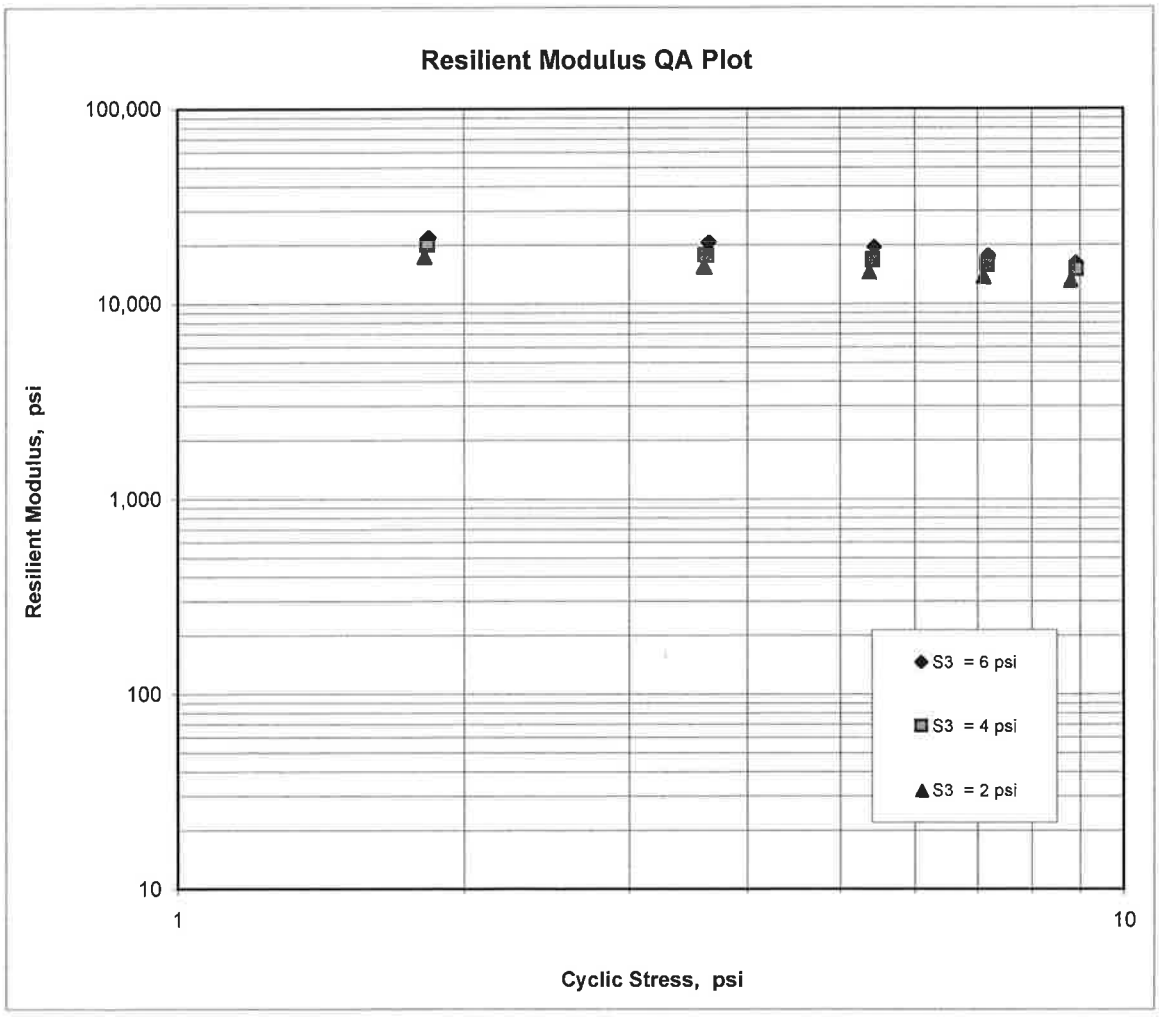
$$M_R = K1\ (S_C)^{K2}\ (S_3)^{K5}$$

K1 = 16,579

K2 = -0.17743

K5 = 0.22491

R^2 = 0.97



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	659+00
Date Tested:	September 25, 2015	**Location:**	37'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152227	**AASHTO Class:**	A-6(4)
Sample ID:	RV384	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.98
Middle	3.98
Bottom	3.97
Average	3.98
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.02
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.02
Initial Area, Ao (sq. in):	12.34
Initial Volume, AoLo (cu. in):	98.93

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3263.40

4. Soil Properties:

Optimum Moisture Content (%):	13.4
Maximum Dry Density (pcf):	116.4
95% of MDD (pcf):	110.6
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3263.40
Compaction Moisture content (%):	13.3
Compaction Wet Density (pcf):	125.68
Compaction Dry Density (pcf):	110.93
Moisture Content After Mr Test (%):	13.4

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

7. Resilient Modulus, Mr: 13569(Sc)^-0.16824(S3)^0.23594

8. Comments

9. Tested By: DEB **Date:** September 25, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	659+00
Date Tested:	September 25, 2015	**Location:**	37'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152227	**AASHTO Class:**	A-6(4)
Sample ID:	RV384	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.3	22.5	2.8	2.1	1.8	0.2	0.00080	0.00010	18,323
Sequence 2	6.0	4.0	47.6	44.7	2.8	3.9	3.6	0.2	0.00166	0.00021	17,556
Sequence 3	6.0	6.0	70.4	66.6	3.8	5.7	5.4	0.3	0.00258	0.00032	16,808
Sequence 4	6.0	8.0	93.8	87.6	6.2	7.6	7.1	0.5	0.00381	0.00048	14,935
Sequence 5	6.0	10.0	116.3	107.6	8.8	9.4	8.7	0.7	0.00519	0.00065	13,473
Sequence 6	4.0	2.0	25.1	22.3	2.8	2.0	1.8	0.2	0.00088	0.00011	16,537
Sequence 7	4.0	4.0	47.1	44.3	2.8	3.8	3.6	0.2	0.00189	0.00024	15,216
Sequence 8	4.0	6.0	68.7	65.8	2.9	5.6	5.3	0.2	0.00300	0.00037	14,272
Sequence 9	4.0	8.0	92.2	86.8	5.4	7.5	7.0	0.4	0.00420	0.00052	13,433
Sequence 10	4.0	10.0	115.3	107.4	7.9	9.3	8.7	0.6	0.00554	0.00069	12,607
Sequence 11	2.0	2.0	25.0	22.2	2.8	2.0	1.8	0.2	0.00102	0.00013	14,168
Sequence 12	2.0	4.0	46.6	43.7	2.8	3.8	3.5	0.2	0.00216	0.00027	13,170
Sequence 13	2.0	6.0	67.7	64.8	2.9	5.5	5.3	0.2	0.00342	0.00043	12,312
Sequence 14	2.0	8.0	90.1	85.6	4.5	7.3	6.9	0.4	0.00477	0.00059	11,678
Sequence 15	2.0	10.0	112.7	105.7	7.0	9.1	8.6	0.6	0.00619	0.00077	11,090

TESTED BY DEB DATE September 25, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS

RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/25/15	**Station No.:**	659+00
Date Tested:	September 25, 2015	**Location:**	37'RT
Name of Project:	HWY. 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152227	**AASHTO Class:**	A-6(4)
Sample ID:	RV384	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

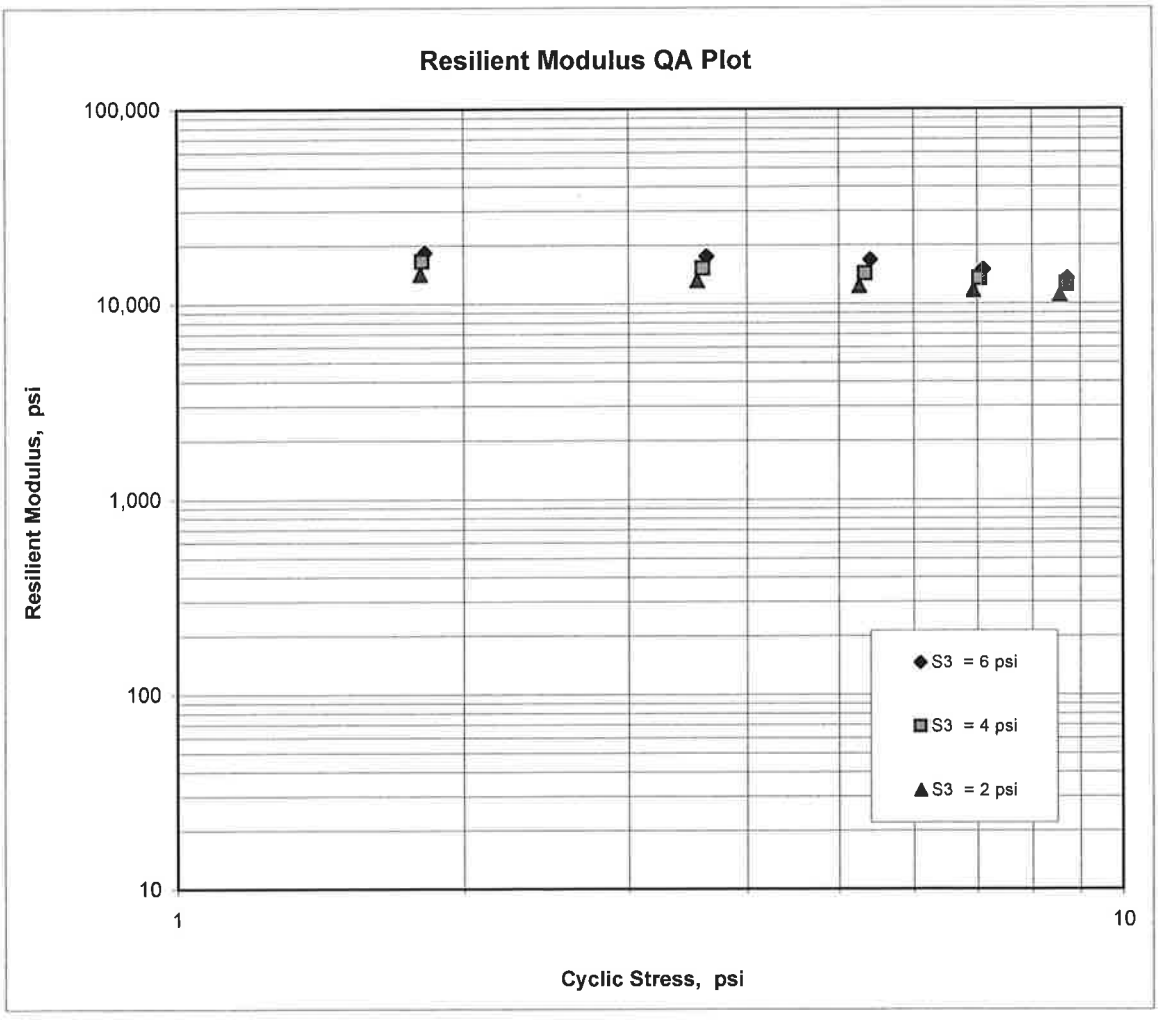
$$M_R = K1\ (S_C)^{K2}\ (S_3)^{K5}$$

K1 = 13,569

K2 = -0.16824

K5 = 0.23594

R^2 = 0.95



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	739+00
Date Tested:	September 29, 2015	**Location:**	38'RT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152228	**AASHTO Class:**	A-7-5(39)
Sample ID:	RV385	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.95
Middle	3.97
Bottom	3.97
Average	3.96
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8
Initial Area, Ao (sq. in):	12.26
Initial Volume, AoLo (cu. in):	98.05

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	2917.80

4. Soil Properties:

Optimum Moisture Content (%):	30.0
Maximum Dry Density (pcf):	89.6
95% of MDD (pcf):	85.1
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	2917.80
Compaction Moisture content (%):	30.0
Compaction Wet Density (pcf):	113.39
Compaction Dry Density (pcf):	87.22
Moisture Content After Mr Test (%):	29.9

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

7. Resilient Modulus, Mr: 7765(Sc)^-0.17784(S3)^0.13084

8. Comments

9. Tested By: DEB **Date:** September 29, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	739+00
Date Tested:	September 29, 2015	**Location:**	38'RT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152228	**AASHTO Class:**	A-7-5(39)
Sample ID:	RV385	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.2	22.3	2.8	2.1	1.8	0.2	0.00130	0.00016	11,190
Sequence 2	6.0	4.0	47.1	44.3	2.8	3.8	3.6	0.2	0.00282	0.00035	10,256
Sequence 3	6.0	6.0	69.0	65.2	3.7	5.6	5.3	0.3	0.00493	0.00062	8,643
Sequence 4	6.0	8.0	87.7	81.5	6.2	7.2	6.6	0.5	0.00878	0.00110	6,056
Sequence 5	6.0	10.0	104.5	95.7	8.8	8.5	7.8	0.7	0.01297	0.00162	4,817
Sequence 6	4.0	2.0	25.1	22.2	2.8	2.0	1.8	0.2	0.00138	0.00017	10,510
Sequence 7	4.0	4.0	46.8	43.9	2.9	3.8	3.6	0.2	0.00310	0.00039	9,243
Sequence 8	4.0	6.0	66.8	63.8	2.9	5.4	5.2	0.2	0.00546	0.00068	7,630
Sequence 9	4.0	8.0	86.5	81.1	5.4	7.1	6.6	0.4	0.00883	0.00110	5,996
Sequence 10	4.0	10.0	104.3	96.4	7.9	8.5	7.9	0.6	0.01325	0.00166	4,747
Sequence 11	2.0	2.0	25.1	22.2	2.9	2.0	1.8	0.2	0.00154	0.00019	9,389
Sequence 12	2.0	4.0	46.5	43.6	2.9	3.8	3.6	0.2	0.00341	0.00043	8,351
Sequence 13	2.0	6.0	66.1	63.1	2.9	5.4	5.2	0.2	0.00599	0.00075	6,877
Sequence 14	2.0	8.0	84.7	80.2	4.5	6.9	6.5	0.4	0.00952	0.00119	5,499
Sequence 15	2.0	10.0	102.7	95.7	7.0	8.4	7.8	0.6	0.01397	0.00175	4,470

TESTED BY DEB DATE September 29, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS

RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	739+00
Date Tested:	September 29, 2015	**Location:**	38'RT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152228	**AASHTO Class:**	A-7-5(39)
Sample ID:	RV385	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

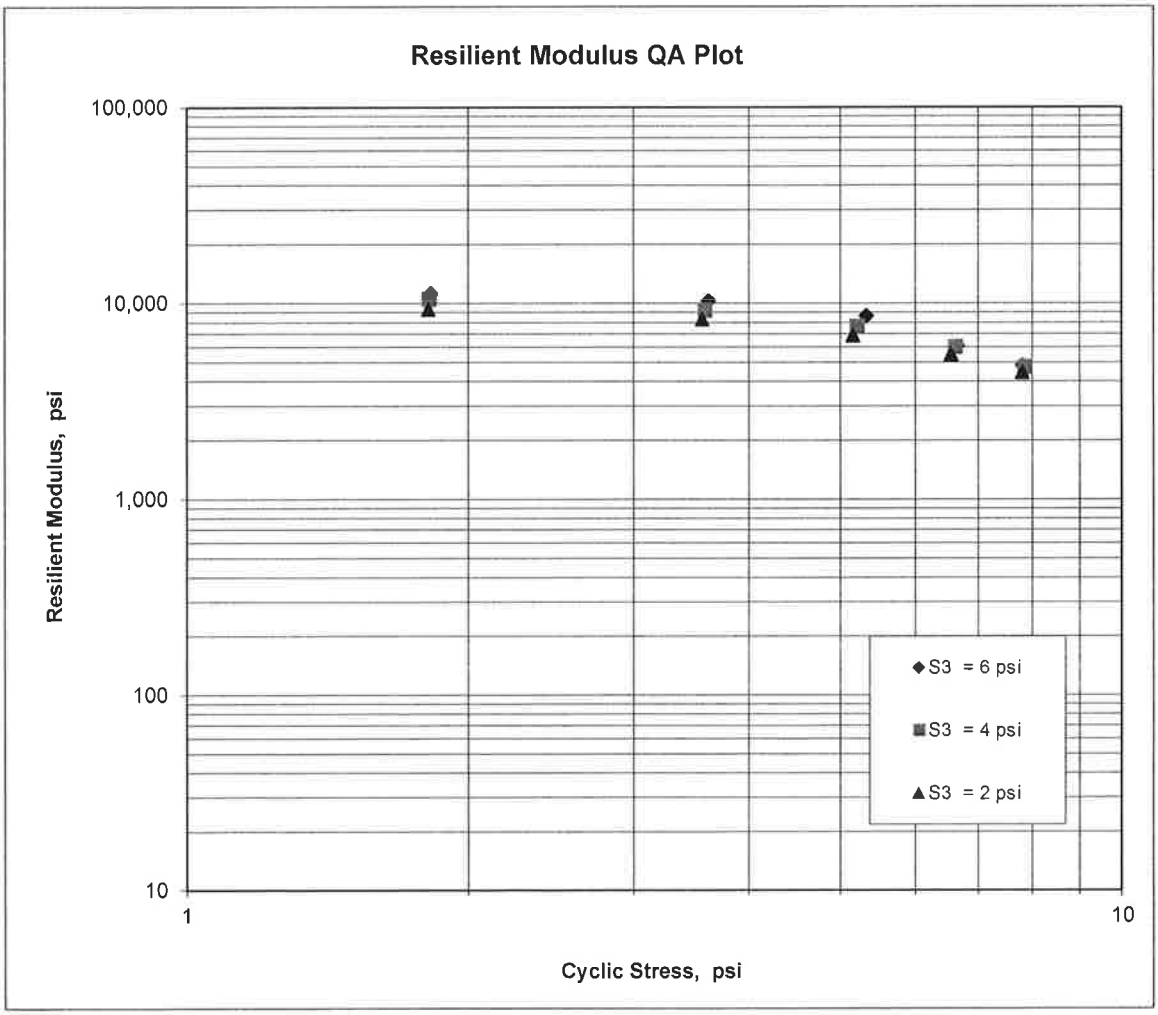
$$M_R = K1\ (S_C)^{K2}\ (S_3)^{K5}$$

K1 = 7,765

K2 = -0.17784

K5 = 0.13084

R^2 = 0.81



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	828+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152230	**AASHTO Class:**	A-7-5(15)
Sample ID:	RV387	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.94
Middle	3.94
Bottom	3.95
Average	3.94
Membrane Thickness (in):	0.01
Height of Specimen, Cap and Base (in):	8.03
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.03
Initial Area, Ao (sq. in):	12.13
Initial Volume, AoLo (cu. in):	97.42

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3068.90

4. Soil Properties:

Optimum Moisture Content (%):	23.2
Maximum Dry Density (pcf):	99.3
95% of MDD (pcf):	94.3
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3068.90
Compaction Moisture content (%):	23.8
Compaction Wet Density (pcf):	120.02
Compaction Dry Density (pcf):	96.95
Moisture Content After Mr Test (%):	23.4

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

7. Resilient Modulus, Mr: 14889(Sc)^-0.42355(S3)^0.14286

8. Comments

9. Tested By: DEB **Date:** September 29, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	828+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152230	**AASHTO Class:**	A-7-5(15)
Sample ID:	RV387	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.0	22.1	2.8	2.1	1.8	0.2	0.00106	0.00013	13,840
Sequence 2	6.0	4.0	46.6	43.7	2.9	3.8	3.6	0.2	0.00232	0.00029	12,477
Sequence 3	6.0	6.0	68.2	64.5	3.7	5.6	5.3	0.3	0.00404	0.00050	10,561
Sequence 4	6.0	8.0	89.1	82.9	6.1	7.3	6.8	0.5	0.00658	0.00082	8,346
Sequence 5	6.0	10.0	108.8	100.2	8.6	9.0	8.3	0.7	0.00935	0.00116	7,093
Sequence 6	4.0	2.0	24.9	22.0	2.8	2.0	1.8	0.2	0.00111	0.00014	13,111
Sequence 7	4.0	4.0	46.4	43.6	2.9	3.8	3.6	0.2	0.00254	0.00032	11,364
Sequence 8	4.0	6.0	66.5	63.6	2.9	5.5	5.2	0.2	0.00439	0.00055	9,598
Sequence 9	4.0	8.0	87.7	82.5	5.2	7.2	6.8	0.4	0.00685	0.00085	7,965
Sequence 10	4.0	10.0	107.7	100.0	7.7	8.9	8.2	0.6	0.00970	0.00121	6,823
Sequence 11	2.0	2.0	24.8	22.0	2.8	2.0	1.8	0.2	0.00121	0.00015	12,019
Sequence 12	2.0	4.0	46.0	43.1	2.9	3.8	3.6	0.2	0.00274	0.00034	10,409
Sequence 13	2.0	6.0	65.8	62.9	2.9	5.4	5.2	0.2	0.00479	0.00060	8,690
Sequence 14	2.0	8.0	85.5	81.1	4.4	7.0	6.7	0.4	0.00735	0.00091	7,308
Sequence 15	2.0	10.0	105.7	98.9	6.8	8.7	8.2	0.6	0.01028	0.00128	6,365

TESTED BY DEB DATE September 29, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS

RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	828+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152230	**AASHTO Class:**	A-7-5(15)
Sample ID:	RV387	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

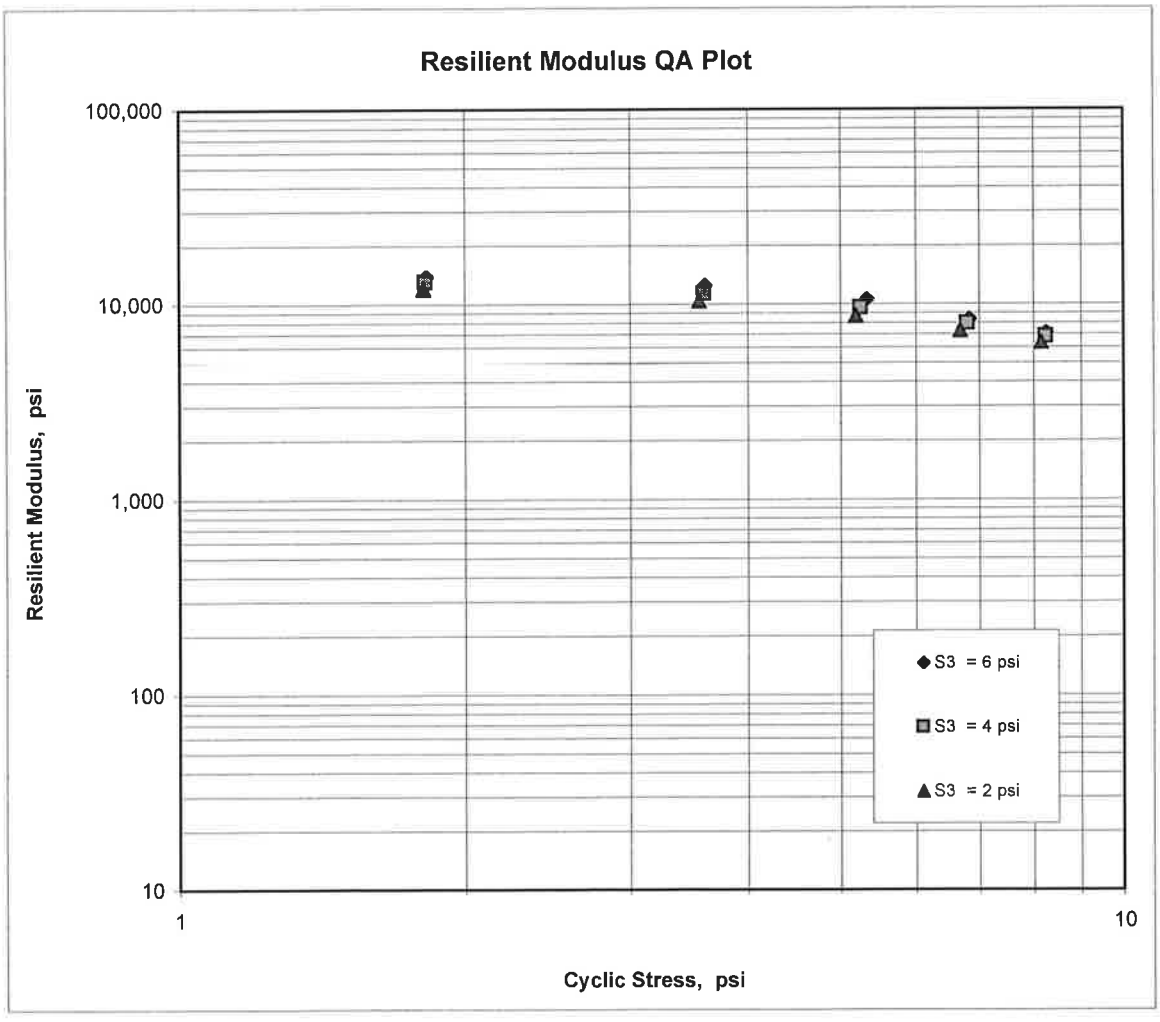
$$M_R = K1\ (S_C)^{K2}\ (S_3)^{K5}$$

K1 = 14,889

K2 = -0.42355

K5 = 0.14286

R^2 = 0.91



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	892+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152231	**AASHTO Class:**	A-7-5(31)
Sample ID:	RV388	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

1. Testing Information:

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

2. Specimen Information:

Specimen Diameter (in):	
Top	3.98
Middle	3.97
Bottom	3.98
Average	3.98
Membrane Thickness (in):	0.01
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):	12.34
Initial Volume, AoLo (cu. in):	99.08

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	2919.40

4. Soil Properties:

Optimum Moisture Content (%):	22.5
Maximum Dry Density (pcf):	97.1
95% of MDD (pcf):	92.2
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	2919.40
Compaction Moisture content (%):	22.5
Compaction Wet Density (pcf):	112.27
Compaction Dry Density (pcf):	91.65
Moisture Content After Mr Test (%):	23.0

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

7. Resilient Modulus, Mr: 15002(Sc)^-0.28286(S3)^0.15006

8. Comments

9. Tested By: DEB **Date:** September 29, 2015

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	892+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152231	**AASHTO Class:**	A-7-5(31)
Sample ID:	RV388	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

PARAMETER	*Chamber Confining Pressure*	*Nominal Maximum Axial Stress*	*Actual Applied Max. Axial Load*	*Actual Applied Cyclic Load*	*Actual Applied Contact Load*	*Actual Applied Max. Axial Stress*	*Actual Applied Cyclic Stress*	*Actual Applied Contact Stress*	*Average Recov Def. LVDT 1 and 2*	*Resilient Strain*	*Resilient Modulus*
DESIGNATION	S_3	S_{cyclic}	P_{max}	P_{cyclic}	$P_{contact}$	S_{max}	S_{cyclic}	$S_{contact}$	H_{avg}	ε_r	M_r
UNIT	psi	psi	lbs	lbs	lbs	psi	psi	psi	in	in/in	psi
Sequence 1	6.0	2.0	25.4	22.6	2.7	2.1	1.8	0.2	0.00092	0.00011	16,006
Sequence 2	6.0	4.0	47.6	44.9	2.8	3.9	3.6	0.2	0.00202	0.00025	14,427
Sequence 3	6.0	6.0	70.3	66.7	3.6	5.7	5.4	0.3	0.00332	0.00041	13,057
Sequence 4	6.0	8.0	93.0	86.8	6.2	7.5	7.0	0.5	0.00509	0.00063	11,099
Sequence 5	6.0	10.0	114.1	105.5	8.6	9.2	8.5	0.7	0.00700	0.00087	9,800
Sequence 6	4.0	2.0	25.3	22.6	2.7	2.0	1.8	0.2	0.00098	0.00012	14,946
Sequence 7	4.0	4.0	47.3	44.6	2.7	3.8	3.6	0.2	0.00215	0.00027	13,480
Sequence 8	4.0	6.0	68.8	66.0	2.8	5.6	5.3	0.2	0.00354	0.00044	12,137
Sequence 9	4.0	8.0	91.5	86.2	5.3	7.4	7.0	0.4	0.00522	0.00065	10,753
Sequence 10	4.0	10.0	113.1	105.3	7.8	9.2	8.5	0.6	0.00716	0.00089	9,567
Sequence 11	2.0	2.0	25.3	22.6	2.7	2.0	1.8	0.2	0.00111	0.00014	13,288
Sequence 12	2.0	4.0	47.2	44.4	2.7	3.8	3.6	0.2	0.00241	0.00030	11,990
Sequence 13	2.0	6.0	68.3	65.5	2.8	5.5	5.3	0.2	0.00394	0.00049	10,827
Sequence 14	2.0	8.0	89.6	85.2	4.4	7.3	6.9	0.4	0.00571	0.00071	9,712
Sequence 15	2.0	10.0	111.1	104.2	6.9	9.0	8.4	0.6	0.00773	0.00096	8,774

TESTED BY DEB DATE September 29, 2015

REVIEWED BY _____ DATE _____

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

MATERIALS DIVISION

AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS

RECOMPACTED / THINWALL TUBE SAMPLES

Job No.	CA0801	**Material Code**	SSRVPS
Date Sampled:	9/29/15	**Station No.:**	892+00
Date Tested:	September 29, 2015	**Location:**	26'LT
Name of Project:	HWY 110 - CLINTON (WIDENING)(S)		
County:	**Code:** 71 **Name:** VAN BUREN		
Sampled By:	FAULKNER	**Depth:**	0-5
Lab No.:	20152231	**AASHTO Class:**	A-7-5(31)
Sample ID:	RV388	**Material Type (1 or 2):**	2
LATITUDE:		**LONGITUDE:**	

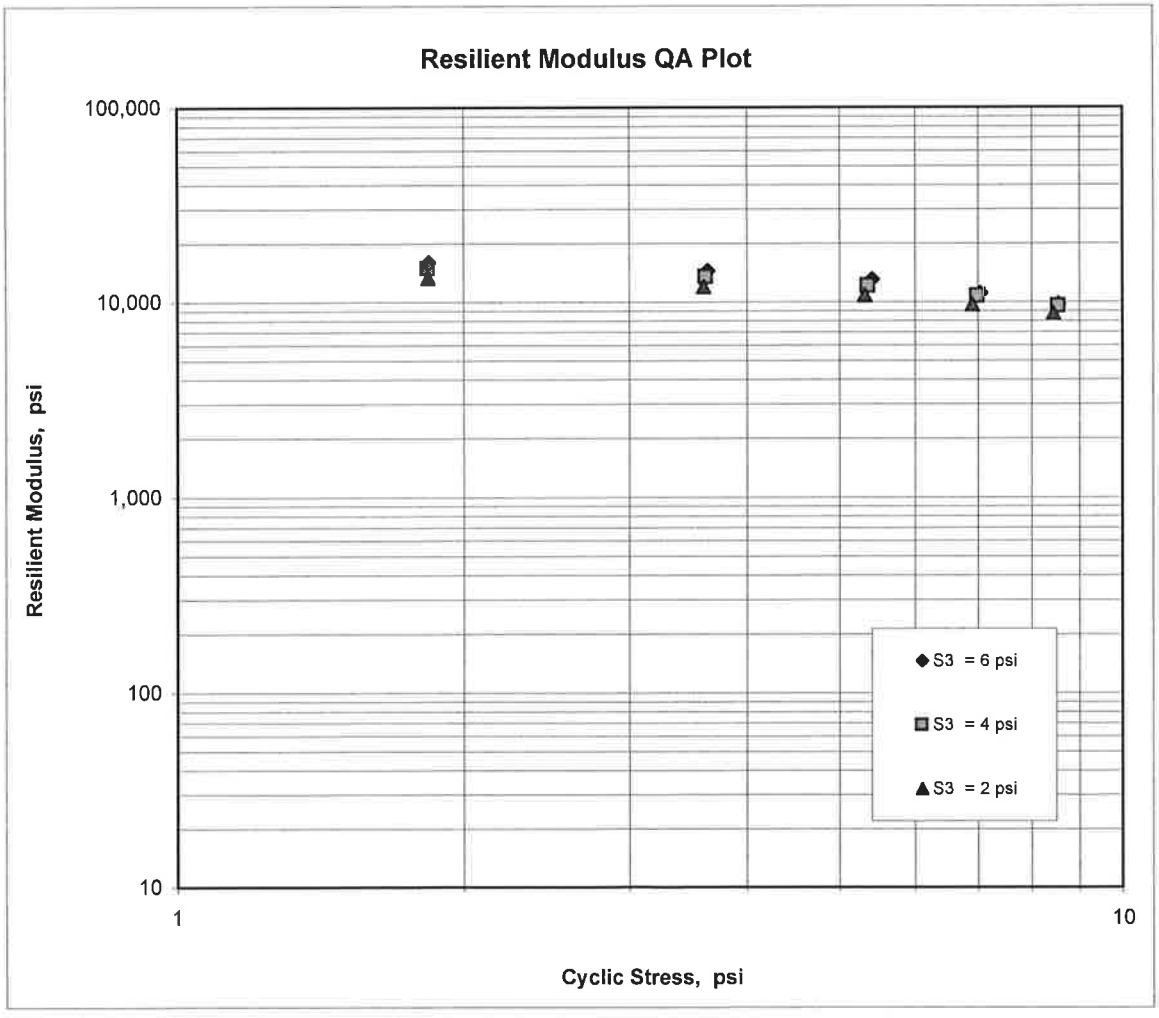
$$M_R = K1\ (S_C)^{K2}\ (S_3)^{K5}$$

K1 = 15,002

K2 = -0.28286

K5 = 0.15006

R^2 = 0.92



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/02/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 1
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152072	20152073	20152074
SAMPLE ID	S229	S230	S231
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	500+00	500+00	500+00
LOCATION	16RT	28RT	36RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 30.10	35 36 30.10	35 36 30.00
LONGITUDE DEG-MIN-SEC	92 27 24.00	92 27 23.90	92 27 23.80
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			100
3/8 IN.	100	100	98
NO. 4	98	99	95
NO. 10	95	94	92
NO. 40	91	88	87
NO. 80	88	83	84
NO. 200	81	77	80
LIQUID LIMIT	40	32	41
PLASTICITY INDEX	22	15	22
AASHTO SOIL	A-6(17)	A-6(10)	A-7-6(17)
UNIFIED SOIL			
% MOISTURE CONTENT	17.9	18.3	17.9
ACHMSC (IN)	13.0W	6.5	--
AGG.BASE CRS CL-7 (IN)	6.0	12.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 2
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152075	20152076	20152077
SAMPLE ID	S232	S233	S234
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	507+00	507+00	507+00
LOCATION	06LT	20LT	31LT
DEPTH IN FEET	0-5	0-3.5Z	0-2.5Z
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 36.70	35 36 36.70	35 36 36.70
LONGITUDE DEG-MIN-SEC	92 27 24.30	92 27 24.50	92 27 24.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	98	100
NO. 4	96	97	99
NO. 10	89	85	97
NO. 40	82	79	95
NO. 80	63	65	88
NO. 200	39	38	49
LIQUID LIMIT	19	19	ND
PLASTICITY INDEX	02	03	NP
AASHTO SOIL	A-4(0)	A-4(0)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	9.3	7.6	6.8
ACHMSC (IN)	9.25	4.75W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	6.0	3.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 3
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	20152078	20152079	20152080
SAMPLE ID	S235	S236	S237
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	515+00	515+00	515+00
LOCATION	19RT	29RT	46RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 43.90	35 36 44.00	35 36 44.00
LONGITUDE DEG-MIN-SEC	92 27 29.10	92 27 29.00	92 27 28.80
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	97	100	100
NO. 4	84	97	98
NO. 10	73	89	92
NO. 40	68	82	85
NO. 80	62	75	72
NO. 200	47	50	50
LIQUID LIMIT	24	21	22
PLASTICITY INDEX	08	06	08
AASHTO SOIL	A-4(1)	A-4(0)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	11.8	13.9	17.0
ACHMSC (IN)	9.0	6.75	--
ACHMBC (IN)	2.5	--	--
AGG.BASE CRS CL-7 (IN)	5.0	6.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 4
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152081	20152082	20152083
SAMPLE ID	S238	S239	S240
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	523+00	523+00	523+00
LOCATION	06LT	16LT	46LT
DEPTH IN FEET	0-5	0-3Z	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 50.50	35 36 50.40	35 36 50.40
LONGITUDE DEG-MIN-SEC	92 27 34.00	92 27 34.10	92 27 34.30
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	100
3/8 IN.	100	96	96
NO. 4	95	89	93
NO. 10	88	80	88
NO. 40	84	74	83
NO. 80	79	66	77
NO. 200	66	45	60
LIQUID LIMIT	29	19	31
PLASTICITY INDEX	12	05	15
AASHTO SOIL	A-6(6)	A-4(0)	A-6(6)
UNIFIED SOIL			
% MOISTURE CONTENT	16.2	16.2	15.7
ACHMSC (IN)	8.5	6.0W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	5.0	3.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 5
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152084	20152085	20152086
SAMPLE ID	S241	S242	S243
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	531+00	531+00	531+00
LOCATION	17RT	30RT	47RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	RD/BR	RD/BR	RD/BR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 58.40	35 36 58.40	35 36 58.40
LONGITUDE DEG-MIN-SEC	92 27 34.40	92 27 34.20	92 27 34.10
% PASSING 2 IN.			
1 1/2 IN.			100
3/4 IN.			94
3/8 IN.	100	100	93
NO. 4	98	97	88
NO. 10	93	92	79
NO. 40	88	87	76
NO. 80	77	84	75
NO. 200	65	78	73
LIQUID LIMIT	27	49	48
PLASTICITY INDEX	12	24	26
AASHTO SOIL	A-6(5)	A-7-6(19)	A-7-6(18)
UNIFIED SOIL			
% MOISTURE CONTENT	31.0	24.4	26.6
ACHMSC (IN)	9.5	6.0W	--
ACHMBC (IN)	2.25	--	--
AGG.BASE CRS CL-7 (IN)	7.0	4.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 6
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	- 20152087	- 20152088	- 20152089
SAMPLE ID	- S244	- S245	- S246
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 539+00	- 539+00	- 539+00
LOCATION	- 06LT	- 17LT	- 33LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-1.5Z
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 37 5.90	- 35 37 6.00	- 35 37 6.00
LONGITUDE DEG-MIN-SEC	- 92 27 32.20	92 27 32.30	92 27 32.50
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	- 100	- 100
3/8 IN.	- 99	- 99	- 99
NO. 4	- 94	- 96	- 92
NO. 10	- 86	- 91	- 87
NO. 40	- 77	- 87	- 78
NO. 80	- 67	- 81	- 67
NO. 200	- 54	70	43
LIQUID LIMIT	- 28	- 33	- 22
PLASTICITY INDEX	- 13	- 17	- 04
AASHTO SOIL	- A-6(4)	- A-6(10)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.2	20.4	18.8
ACHMSC (IN)	- 7.25	- 6.0	- --
ACHMBC (IN)	- 2.0	- --	- --
AGG.BASE CRS CL-7 (IN)	- 7.0	- 6.0	- --

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 10/02/15	SEQUENCE NO.	- 7
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	- 20152090	- 20152091	- 20152092
SAMPLE ID	- S247	- S248	- S249
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 543+00	- 543+00	- 543+00
LOCATION	- 18RT	- 30RT	- 55RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-3Z
MAT'L COLOR	- RD/BR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 37 13.60	- 35 37 13.50	- 35 37 13.50
LONGITUDE DEG-MIN-SEC	- 92 27 29.30	92 27 29.10	92 27 28.80
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	- 100	-
3/8 IN.	- 100	- 98	- 100
NO. 4	- 99	- 96	- 97
NO. 10	- 96	- 90	- 92
NO. 40	- 91	- 84	- 87
NO. 80	- 79	- 72	- 80
NO. 200	- 66	57	69
LIQUID LIMIT	- 39	- 33	- 34
PLASTICITY INDEX	- 20	- 15	- 16
AASHTO SOIL	- A-6(11)	- A-6(6)	- A-6(9)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 22.2	25.2	20.6
ACHMSC (IN)	- 9.5	- 7.5W	- --
ACHMBC (IN)	- 2.5	- --	- --
AGG.BASE CRS CL-7 (IN)	- 7.0	- 6.0	- --

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 8
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152093	20152094	20152095
SAMPLE ID	S250	S251	S252
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	555+00	555+00	555+00
LOCATION	06LT	19LT	33LT
DEPTH IN FEET	0-3.5Z	0-3.5Z	0-3Z
MAT'L COLOR	BR/GR	GRAY	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 37 21.30	35 37 21.40	35 37 21.40
LONGITUDE DEG-MIN-SEC	92 27 26.90	92 27 27.10	92 27 27.20
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	100
3/8 IN.	100	94	98
NO. 4	96	86	93
NO. 10	92	78	80
NO. 40	86	73	64
NO. 80	79	58	64
NO. 200	48	38	46
LIQUID LIMIT	18	17	23
PLASTICITY INDEX	03	02	06
AASHTO SOIL	A-4(0)	A-4(0)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	9.9	12.1	13.1
ACHMSC (IN)	9.0	7.25	--
ACHMBC (IN)	1.5	--	--
AGG.BASE CRS CL-7 (IN)	7.0	3.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 9
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152096	20152097	20152098
SAMPLE ID	S253	S254	S255
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	563+00	563+00	563+00
LOCATION	18RT	28RT	46RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 37 29.50	35 37 29.60	35 37 29.60
LONGITUDE DEG-MIN-SEC	92 27 25.90	92 27 25.80	92 27 25.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			
3/8 IN.	100	100	100
NO. 4	98	97	99
NO. 10	88	92	96
NO. 40	76	88	93
NO. 80	67	78	90
NO. 200	58	61	84
LIQUID LIMIT	30	38	47
PLASTICITY INDEX	13	19	22
AASHTO SOIL	A-6(5)	A-6(9)	A-7-6(20)
UNIFIED SOIL			
% MOISTURE CONTENT	25.9	21.2	30.1
ACHMSC (IN)	10.0	6.25	--
ACHMBC (IN)	2.5	--	--
AGG.BASE CRS CL-7 (IN)	8.0	7.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 10
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	- 20152099	- 20152100	- 20152101
SAMPLE ID	- S256	- S257	- S258
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 571+00	- 571+00	- 571+00
LOCATION	- 08LT	- 28LT	- 31LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 37 37.00	- 35 37 37.00	- 35 37 37.00
LONGITUDE DEG-MIN-SEC	- 92 27 27.00	92 27 27.00	92 27 27.20
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	- 100
NO. 4	- 99	- 99	- 96
NO. 10	- 97	- 96	- 88
NO. 40	- 93	- 90	- 81
NO. 80	- 78	- 83	- 66
NO. 200	- 67	76	44
LIQUID LIMIT	- 39	- 37	- 26
PLASTICITY INDEX	- 19	- 16	- 11
AASHTO SOIL	- A-6(11)	- A-6(11)	- A-6(1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 32.1	20.0	21.0
ACHMSC (IN)	- 10.0	- 5.5	- --
ACHMBC (IN)	- 2.0	- --	- --
AGG.BASE CRS CL-7 (IN)	- 5.0	- 5.0	- --

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 11
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152102	20152103	20152104
SAMPLE ID	S259	S260	S261
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	579+00	579+00	579+00
LOCATION	16RT	27RT	38RT
DEPTH IN FEET	0-5	0-5	0-3Z
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 37 45.20	35 37 45.20	35 37 45.20
LONGITUDE DEG-MIN-SEC	92 27 26.70	92 27 26.60	92 27 26.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	
3/8 IN.	98	99	100
NO. 4	92	95	94
NO. 10	84	90	88
NO. 40	75	85	81
NO. 80	66	69	70
NO. 200	59	53	59
LIQUID LIMIT	26	24	34
PLASTICITY INDEX	12	11	16
AASHTO SOIL	A-6(4)	A-6(3)	A-6(7)
UNIFIED SOIL			
% MOISTURE CONTENT	16.9	18.1	13.6
ACHMSC (IN)	9.75W	7.25W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	6.0	5.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 12
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	- 20152105	- 20152106	- 20152107
SAMPLE ID	- S262	- S263	- S264
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 587+00	- 587+00	- 587+00
LOCATION	- 06LT	- 18LT	- 33LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 37 51.40	- 35 37 51.30	- 35 37 51.20
LONGITUDE DEG-MIN-SEC	- 92 27 32.00	92 27 32.10	92 27 32.20
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	-	- 100
3/8 IN.	- 99	- 100	- 99
NO. 4	- 97	- 97	- 97
NO. 10	- 92	- 92	- 94
NO. 40	- 86	- 88	- 88
NO. 80	- 73	- 74	- 82
NO. 200	- 58	60	72
LIQUID LIMIT	- 33	- 34	- 40
PLASTICITY INDEX	- 15	- 17	- 22
AASHTO SOIL	- A-6(6)	- A-6(7)	- A-6(14)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 24.6	23.1	22.0
ACHMSC (IN)	- 7.75W	- 6.0W	- --
ACHMBC (IN)	- 2.0	- --	- --
AGG.BASE CRS CL-7 (IN)	- 6.0	- 6.0	- --

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 13
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	20152108	20152109	20152110
SAMPLE ID	S265	S266	S267
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	595+00	595+00	595+00
LOCATION	18RT	29RT	41RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 37 58.90	35 37 58.90	35 37 59.00
LONGITUDE DEG-MIN-SEC	92 27 36.20	92 27 36.10	92 27 36.00
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	100
NO. 4	95	99	98
NO. 10	89	98	97
NO. 40	85	94	95
NO. 80	74	63	86
NO. 200	66	44	80
LIQUID LIMIT	32	24	49
PLASTICITY INDEX	14	10	28
AASHTO SOIL	A-6(7)	A-4(1)	A-7-6(23)
UNIFIED SOIL			
% MOISTURE CONTENT	20.8	25.8	29.1
ACHMSC (IN)	9.75W	6.25	--
ACHMBC (IN)	5.0	--	--
AGG.BASE CRS CL-7 (IN)	6.0	5.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 09/30/15	SEQUENCE NO.	- 14
JOB NUMBER	- CA0801	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 71
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT	- HWY.110-CLINTON (WIDENING) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- VAN BUREN COUNTY	DATE SAMPLED	- 07/15/15
SAMPLED BY	- S.FAULKNER	DATE RECEIVED	- 07/16/15
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 09/29/15

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

LAB NUMBER	- 20152111	- 20152112	- 20152113
SAMPLE ID	- S268	- S269	- S270
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 603+00	- 603+00	- 603+00
LOCATION	- 07LT	- 17LT	- 25LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 38 6.30	- 35 38 6.30	- 35 38 6.30
LONGITUDE DEG-MIN-SEC	- 92 27 37.80	92 27 37.90	92 27 38.00
% PASSING 2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	- 100	-
3/8 IN.	- 100	- 99	-
NO. 4	- 98	- 95	- 100
NO. 10	- 94	- 89	- 99
NO. 40	- 90	- 82	- 95
NO. 80	- 74	- 63	- 83
NO. 200	- 61	49	76
LIQUID LIMIT	- 29	- 22	- 52
PLASTICITY INDEX	- 14	- 08	- 29
AASHTO SOIL	- A-6(6)	- A-4(1)	- A-7-6(22)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.4	33.1	20.7
ACHMSC (IN)	- 8.75W	- 7.0W	- --
ACHMBC (IN)	- 2.5	- --	- --
AGG.BASE CRS CL-7 (IN)	- 7.0	- 10.0	- --

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 15
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152114	20152115	20152116
SAMPLE ID	S271	S272	S273
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	611+00	611+00	611+00
LOCATION	06RT	20RT	31RT
DEPTH IN FEET	0-4.5Z	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 13.80	35 38 13.80	35 38 13.90
LONGITUDE DEG-MIN-SEC	92 27 40.70	92 27 40.70	92 27 40.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			
3/8 IN.	100	100	100
NO. 4	99	98	98
NO. 10	90	95	95
NO. 40	74	87	81
NO. 80	57	69	57
NO. 200	41	50	40
LIQUID LIMIT	22	25	25
PLASTICITY INDEX	08	12	11
AASHTO SOIL	A-4(0)	A-6(3)	A-6(1)
UNIFIED SOIL			
% MOISTURE CONTENT	9.2	19.3	17.8
ACHMSC (IN)	2.5	5.75W	--
ACHMSC (IN)	3.0X	--	--
ACHMSC (IN)	6.0	--	--
AGG.BASE CRS CL-7 (IN)	9.0	7.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 16
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152117	20152118	20152119
SAMPLE ID	S274	S275	S276
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	619+00	619+00	619+00
LOCATION	06LT	19LT	26LT
DEPTH IN FEET	0-4.5Z	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 20.50	35 38 20.50	35 38 20.50
LONGITUDE DEG-MIN-SEC	92 27 43.20	92 27 43.30	92 27 43.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	99	100
NO. 4	95	95	99
NO. 10	90	85	96
NO. 40	82	75	91
NO. 80	68	67	83
NO. 200	56	61	77
LIQUID LIMIT	30	34	35
PLASTICITY INDEX	16	19	18
AASHTO SOIL	A-6(6)	A-6(9)	A-6(12)
UNIFIED SOIL			
% MOISTURE CONTENT	19.5	24.6	20.9
ACHMSC (IN)	9.75W	6.0W	--
AHCMBC (IN)	2.25	--	--
AGG.BASE CRS CL-7 (IN)	5.0	6.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 17
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152120	20152121	20152122
SAMPLE ID	S277	S278	S279
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	627+00	627+00	627+00
LOCATION	19RT	28RT	36RT
DEPTH IN FEET	0-2Z	0-5	0-5
MAT'L COLOR	GRAY	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 28.60	35 38 28.50	35 38 28.50
LONGITUDE DEG-MIN-SEC	92 27 40.80	92 27 40.70	92 27 40.70
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	
3/8 IN.	99	98	
NO. 4	94	96	100
NO. 10	87	92	100
NO. 40	80	86	100
NO. 80	48	72	100
NO. 200	28	57	91
LIQUID LIMIT	ND	24	51
PLASTICITY INDEX	NP	10	27
AASHTO SOIL	A-2-4(0)	A-4(3)	A-7-6(27)
UNIFIED SOIL			
% MOISTURE CONTENT	12.0	19.2	17.0
ACHMSC (IN)	8.0W	6.25W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	8.0	4.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
SEQUENCE NO. - 18
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152123	20152124	20152125
SAMPLE ID	S280	S281	S282
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	635+00	635+00	635+00
LOCATION	06LT	19LT	26LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 37.00	35 38 37.00	35 38 37.00
LONGITUDE DEG-MIN-SEC	92 27 38.30	92 27 38.40	92 27 38.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	99	99	96
NO. 4	93	95	90
NO. 10	88	89	85
NO. 40	81	81	80
NO. 80	73	71	65
NO. 200	53	55	45
LIQUID LIMIT	21	24	22
PLASTICITY INDEX	07	10	09
AASHTO SOIL	A-4(1)	A-4(2)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	12.1	17.7	13.8
ACHMSC (IN)	9.25W	7.0W	--
ACHMBC (IN)	2.25	--	--
AGG.BASE CRS CL-7 (IN)	7.0	5.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 19
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152126	20152127	20152128
SAMPLE ID	S283	S284	S285
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	643+00	643+00	643+00
LOCATION	19RT	28RT	36RT
DEPTH IN FEET	0-4Z	0-2.5Z	0-2.5Z
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 44.30	35 38 44.30	35 38 44.30
LONGITUDE DEG-MIN-SEC	92 27 36.60	92 27 36.50	92 27 36.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	99	99	99
NO. 4	96	92	93
NO. 10	91	83	85
NO. 40	86	76	77
NO. 80	74	53	58
NO. 200	47	30	33
LIQUID LIMIT	20	ND	ND
PLASTICITY INDEX	05	NP	NP
AASHTO SOIL	A-4(0)	A-2-4(0)	A-2-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	10.0	6.5	11.9
ACHMSC (IN)	8.0W	6.0W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	9.0	11.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 20
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152129	20152130	20152131
SAMPLE ID	S286	S287	S288
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	651+00	651+00	651+00
LOCATION	08LT	18LT	32LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	GRAY	GRAY	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 38 52.40	35 38 52.40	35 38 52.50
LONGITUDE DEG-MIN-SEC	92 27 35.70	92 27 35.90	92 27 36.00
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		100
3/8 IN.	99	100	99
NO. 4	96	99	97
NO. 10	93	97	92
NO. 40	89	94	85
NO. 80	71	81	70
NO. 200	46	62	52
LIQUID LIMIT	17	22	ND
PLASTICITY INDEX	03	09	NP
AASHTO SOIL	A-4(0)	A-4(3)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	15.2	10.1	17.2

ACHMSC	(IN)	2.0	7.0W	--
ACHMSC	(IN)	2.0X	--	--
ACHMSC	(IN)	4.5	--	--
ACHMBC	(IN)	1.75	--	--
AGG.BASE CRS CL-7	(IN)	7.0	7.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 21
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152132	20152133	20152134
SAMPLE ID	S289	S290	S291
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	659+00	659+00	659+00
LOCATION	18RT	27RT	37RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 .20	35 39 .20	35 39 .10
LONGITUDE DEG-MIN-SEC	92 27 34.30	92 27 34.10	92 27 34.00
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	99	99	97
NO. 4	96	96	93
NO. 10	91	88	88
NO. 40	86	80	81
NO. 80	73	63	63
NO. 200	58	46	47
LIQUID LIMIT	25	20	22
PLASTICITY INDEX	10	05	07
AASHTO SOIL	A-4(3)	A-4(0)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	20.3	15.9	20.6
ACHMSC (IN)	9.5	6.25W	--
ACHMBC (IN)	2.5	--	--
AGG.BASE CRS CL-7 (IN)	4.0	6.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 22
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152135	20152136	20152137
SAMPLE ID	S292	S293	S294
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	667+00	667+00	667+00
LOCATION	09LT	18LT	26LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 7.80	35 39 7.80	35 39 7.80
LONGITUDE DEG-MIN-SEC	92 27 34.70	92 27 34.80	92 27 34.90
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	99	100
NO. 4	97	97	99
NO. 10	94	92	97
NO. 40	86	82	83
NO. 80	58	57	52
NO. 200	41	38	44
LIQUID LIMIT	20	21	32
PLASTICITY INDEX	06	07	16
AASHTO SOIL	A-4(0)	A-4(0)	A-6(3)
UNIFIED SOIL			
% MOISTURE CONTENT	15.6	14.1	15.9
ACHMSC (IN)	8.75W	6.5W	--
ACHMBC (IN)	2.0	--	--
AGG.BASE CRS CL-7 (IN)	6.0	6.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 23
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152138	20152139	20152140
SAMPLE ID	S295	S296	S297
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	675+00	675+00	675+00
LOCATION	18RT	30RT	38RT
DEPTH IN FEET	0-5	0-3.5Z	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 14.70	35 39 14.80	35 39 14.90
LONGITUDE DEG-MIN-SEC	92 27 39.60	92 27 39.60	92 27 39.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	100
3/8 IN.	100	99	93
NO. 4	98	94	89
NO. 10	92	91	83
NO. 40	85	86	76
NO. 80	64	63	42
NO. 200	51	49	25
LIQUID LIMIT	22	22	ND
PLASTICITY INDEX	08	07	NP
AASHTO SOIL	A-4(1)	A-4(1)	A-2-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	16.4	22.2	12.6
ACHMSC (IN)	7.75W	6.25W	--
ACHMBC (IN)	3.5	--	--
AGG.BASE CRS CL-7 (IN)	11.0	4.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 24
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152141	20152142	20152143
SAMPLE ID	S298	S299	S300
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	683+00	683+00	683+00
LOCATION	06LT	17LT	30LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	RD/BR	RD/BR	RD/BR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 20.20	35 39 20.20	35 39 20.10
LONGITUDE DEG-MIN-SEC	92 27 47.10	92 27 47.10	92 27 47.20
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	
3/8 IN.	99	99	100
NO. 4	95	94	99
NO. 10	90	88	98
NO. 40	85	82	91
NO. 80	64	54	63
NO. 200	52	40	55
LIQUID LIMIT	27	21	27
PLASTICITY INDEX	13	07	11
AASHTO SOIL	A-6(13)	A-4(0)	A-6(3)
UNIFIED SOIL			
% MOISTURE CONTENT	16.7	11.2	22.3
ACHMSC (IN)	9.0W	7.0W	--
ACHMBC (IN)	2.0	--	--
AGG.BASE CRS CL-7 (IN)	7.0	4.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 25
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152144	20152145	20152146
SAMPLE ID	S301	S302	S303
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	691+00	691+00	691+00
LOCATION	19RT	30RT	39RT
DEPTH IN FEET	0-5	0-4Z	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 25.10	35 39 25.20	35 39 25.30
LONGITUDE DEG-MIN-SEC	92 27 53.40	92 27 53.30	92 27 53.20
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	99	100
NO. 4	96	96	90
NO. 10	81	92	85
NO. 40	80	87	77
NO. 80	71	68	67
NO. 200	58	58	58
LIQUID LIMIT	28	28	33
PLASTICITY INDEX	11	13	16
AASHTO SOIL	A-6(4)	A-6(5)	A-6(6)
UNIFIED SOIL			
% MOISTURE CONTENT	22.9	20.6	18.9
ACHMSC (IN)	8.5W	6.0W	--
ACHMBC (IN)	3.0	--	--
AGG.BASE CRS CL-7 (IN)	5.0	4.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 26
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152147	20152148	20152149
SAMPLE ID	S304	S305	S306
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	700+00	700+00	700+00
LOCATION	06LT	17LT	26LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 27.90	35 39 27.80	35 39 27.70
LONGITUDE DEG-MIN-SEC	92 28 4.50	92 28 4.50	92 28 4.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		100
3/8 IN.	98	100	99
NO. 4	91	96	95
NO. 10	84	90	90
NO. 40	78	84	86
NO. 80	68	62	83
NO. 200	51	45	48
LIQUID LIMIT	27	23	23
PLASTICITY INDEX	11	09	10
AASHTO SOIL	A-6(3)	A-4(1)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	18.2	16.3	14.1
ACHMSC (IN)	9.5W	6.5W	--
ACHMBC (IN)	1.5	--	--
AGG.BASE CRS CL-7 (IN)	5.0	5.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 27
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152150	20152151	20152152
SAMPLE ID	S307	S308	S309
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	707+00	707+00	715+00
LOCATION	06RT	18RT	07LT
DEPTH IN FEET	0-4Z	0-3.5Z	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 26.70	35 39 28.70	35 39 33.00
LONGITUDE DEG-MIN-SEC	92 28 12.80	92 28 12.80	92 28 20.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	99	100
NO. 4	99	97	99
NO. 10	96	94	97
NO. 40	91	91	93
NO. 80	50	61	73
NO. 200	31	32	54
LIQUID LIMIT	ND	ND	20
PLASTICITY INDEX	NP	NP	07
AASHTO SOIL	A-2-4(0)	A-2-4(0)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	7.9	7.5	13.3
ACHMSC (IN)	9.5W	6.0W	9.0W
ACHMBC (IN)	2.0	--	2.25
AGG.BASE CRS CL-7 (IN)	5.0	5.0	5.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 28
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152153	20152154	20152155
SAMPLE ID	S310	S311	S312
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	715+00	715+00	723+00
LOCATION	17LT	29LT	17 RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 32.90	35 39 32.80	35 39 38.90
LONGITUDE DEG-MIN-SEC	92 28 20.50	92 28 20.60	92 28 26.10
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		100
3/8 IN.	98	100	99
NO. 4	94	98	98
NO. 10	88	96	94
NO. 40	82	94	90
NO. 80	66	74	75
NO. 200	51	58	57
LIQUID LIMIT	25	24	18
PLASTICITY INDEX	12	10	04
AASHTO SOIL	A-6(3)	A-4(3)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	20.1	18.3	16.4
ACHMSC (IN)	7.0W	--	8.75W
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	3.0	--	9.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 29
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152156	20152157	20152158
SAMPLE ID	S313	S314	S315
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	723+00	723+00	731+00
LOCATION	27 RT	40 RT	08 LT
DEPTH IN FEET	0-5	0-2.5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 39.00	35 39 39.10	35 39 45.70
LONGITUDE DEG-MIN-SEC	92 28 25.90	92 28 25.80	92 28 32.90
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	96	100
NO. 4	99	92	98
NO. 10	96	88	95
NO. 40	93	84	91
NO. 80	75	67	56
NO. 200	63	53	32
LIQUID LIMIT	27	22	ND
PLASTICITY INDEX	14	09	NP
AASHTO SOIL	A-6(16)	A-4(2)	A-2-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	20.1	15.2	10.5
ACHMSC (IN)	6.0W	--	9.5W
ACHMBC (IN)	--	--	2.25
AGG.BASE CRS CL-7 (IN)	4.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 30
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152159	20152160	20152161
SAMPLE ID	S316	S317	S318
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	731+00	731+00	739+00
LOCATION	18 LT	28 LT	17 RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 45.60	35 39 45.50	35 39 52.10
LONGITUDE DEG-MIN-SEC	92 28 33.00	92 28 33.10	92 28 37.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	99	100
NO. 4	98	98	97
NO. 10	96	98	94
NO. 40	92	94	90
NO. 80	63	68	84
NO. 200	42	58	74
LIQUID LIMIT	17	25	35
PLASTICITY INDEX	03	13	19
AASHTO SOIL	A-4(0)	A-6(4)	A-6(12)
UNIFIED SOIL			
% MOISTURE CONTENT	23.6	18.8	28.2
ACHMSC (IN)	6.75W	--	10.5W
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	2.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/08/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 31
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152162	20152163	20152164
SAMPLE ID	S319	S320	S321
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	739+00	739+00	748+00
LOCATION	28 RT	38 RT	07 LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 52.20	35 39 52.20	35 40 .10
LONGITUDE DEG-MIN-SEC	92 28 37.40	92 28 37.30	92 28 43.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	96	100
NO. 4	99	95	99
NO. 10	96	92	97
NO. 40	91	86	93
NO. 80	88	77	79
NO. 200	86	72	70
LIQUID LIMIT	49	42	38
PLASTICITY INDEX	29	24	19
AASHTO SOIL	A-7-6(26)	A-7-6(16)	A-6(12)
UNIFIED SOIL			
% MOISTURE CONTENT	34.5	35.5	21.7
ACHMSC (IN)	8.0W	--	9.5W
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	6.0	--	3.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 32
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152165	20152166	20152167
SAMPLE ID	S322	S323	S324
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	748+00	748+00	755+00
LOCATION	14 LT	28 LT	07 RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 .00	35 39 59.90	35 40 5.90
LONGITUDE DEG-MIN-SEC	92 28 43.70	92 28 43.80	92 28 47.70
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	98	100	100
NO. 4	96	99	98
NO. 10	90	98	91
NO. 40	84	95	83
NO. 80	67	86	68
NO. 200	53	82	54
LIQUID LIMIT	24	54	22
PLASTICITY INDEX	09	29	08
AASHTO SOIL	A-4(2)	A-7-6(25)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	21.4	28.2	15.4
ACHMSC (IN)	8.5W	--	9.25W
ACHMBC (IN)	--	--	2.25
AGG.BASE CRS CL-7 (IN)	2.0	--	8.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/08/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 33
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152168	20152169	20152170
SAMPLE ID	S325	S326	S327
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	755+00	755+00	763+00
LOCATION	28 RT	35 RT	08LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 6.00	35 40 6.10	35 40 11.40
LONGITUDE DEG-MIN-SEC	92 28 47.50	92 28 47.50	92 28 54.30
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			
3/8 IN.	100	100	100
NO. 4	99	99	95
NO. 10	95	97	84
NO. 40	90	90	72
NO. 80	73	71	52
NO. 200	60	59	34
LIQUID LIMIT	20	26	23
PLASTICITY INDEX	07	14	09
AASHTO SOIL	A-4(1)	A-6(5)	A-2-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	18.2	12.2	15.8
ACHMSC (IN)	6.0W	--	6.25W
ACHMBC (IN)	--	--	6.0W
AGG.BASE CRS CL-7 (IN)	7.0	--	7.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 34
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152171	20152172	20152173
SAMPLE ID	S328	S329	S330
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	763+00	763+00	772+00
LOCATION	18LT	26LT	07RT
DEPTH IN FEET	0-4.5Z	0-3Z	0-5
MAT'L COLOR	BR/GR	BR/GR	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 11.40	35 40 11.30	35 40 17.20
LONGITUDE DEG-MIN-SEC	92 28 54.40	92 28 54.40	92 29 2.20
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			
3/8 IN.	100	100	100
NO. 4	98	96	97
NO. 10	95	89	86
NO. 40	91	81	71
NO. 80	58	66	60
NO. 200	40	54	52
LIQUID LIMIT	25	30	29
PLASTICITY INDEX	12	15	12
AASHTO SOIL	A-6(1)	A-6(5)	A-6(3)
UNIFIED SOIL			
% MOISTURE CONTENT	14.4	20.0	16.0
ACHMSC (IN)	8.0W	--	6.3W
ACHMBC (IN)	--	--	2.0
ACHMBC (IN)	--	--	2.0X
ACHMBC (IN)	--	--	3.5
AGG.BASE CRS CL-7 (IN)	3.0	--	9.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 35
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152174	20152175	20152176
SAMPLE ID	S331	S332	S333
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	772+00	772+00	780+00
LOCATION	18RT	27RT	06LT
DEPTH IN FEET	0-5	0-5	0-4Z
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 17.30	35 40 17.30	35 40 23.20
LONGITUDE DEG-MIN-SEC	92 29 2.20	92 29 2.10	92 38 15.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	100
NO. 4	94	95	97
NO. 10	86	85	92
NO. 40	80	77	84
NO. 80	55	64	57
NO. 200	42	58	45
LIQUID LIMIT	20	37	22
PLASTICITY INDEX	07	20	09
AASHTO SOIL	A-4(0)	A-6(9)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	23.8	21.9	15.3
ACHMSC (IN)	4.0	--	4.75
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	8.0	--	3.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
SEQUENCE NO. - 36
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152177	20152178	20152179
SAMPLE ID	S334	S335	S336
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	780+00	780+00	788+00
LOCATION	17LT	31LT	07RT
DEPTH IN FEET	0-3.5Z	0-3Z	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 23.10	35 40 23.00	35 40 29.60
LONGITUDE DEG-MIN-SEC	92 29 9.40	92 29 9.50	92 29 14.90
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	100
NO. 4	93	98	99
NO. 10	83	94	96
NO. 40	71	89	93
NO. 80	54	57	91
NO. 200	36	42	87
LIQUID LIMIT	19	18	53
PLASTICITY INDEX	04	04	27
AASHTO SOIL	A-4(0)	A-4(0)	A-7-6(26)
UNIFIED SOIL			
% MOISTURE CONTENT	20.5	12.2	32.5
ACHMSC (IN)	3.5	--	6.5W
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	6.0	--	8.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 37
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152180	20152181	20152182
SAMPLE ID	S337	S338	S339
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	788+00	788+00	796+00
LOCATION	19RT	37RT	06LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 29.70	35 40 29.80	35 40 36.70
LONGITUDE DEG-MIN-SEC	92 29 14.70	92 29 14.60	92 29 21.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99		100
NO. 4	94	100	99
NO. 10	88	100	96
NO. 40	83	100	92
NO. 80	67	100	79
NO. 200	55	98	60
LIQUID LIMIT	41	66	29
PLASTICITY INDEX	20	36	16
AASHTO SOIL	A-7-6(8)	A-7-5(42)	A-6(6)
UNIFIED SOIL			
% MOISTURE CONTENT	24.7	29.1	21.8
ACHMSC (IN)	4.25	--	5.5
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	8.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 38
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152183	20152184	20152185
SAMPLE ID	S340	S341	S342
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	796+00	796+00	804+00
LOCATION	19LT	30LT	16RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 36.60	35 40 36.50	35 40 41.50
LONGITUDE DEG-MIN-SEC	92 29 21.50	92 29 21.60	92 29 27.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	
3/8 IN.	99	99	100
NO. 4	96	95	99
NO. 10	91	92	91
NO. 40	87	88	84
NO. 80	67	77	60
NO. 200	44	67	49
LIQUID LIMIT	24	35	24
PLASTICITY INDEX	11	19	11
AASHTO SOIL	A-6(1)	A-6(10)	A-6(2)
UNIFIED SOIL			
% MOISTURE CONTENT	19.4	23.2	16.7
ACHMSC (IN)	3.5	--	4.0
AGG.BASE CRS CL-7 (IN)	4.0	--	9.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 39
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152186	20152187	20152188
SAMPLE ID	S343	S344	S345
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	812+00	812+00	812+00
LOCATION	05LT	16LT	26LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 44.30	35 40 44.30	35 40 44.20
LONGITUDE DEG-MIN-SEC	92 29 36.20	92 29 36.30	92 29 36.30
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	
NO. 4	93	98	100
NO. 10	86	94	100
NO. 40	77	89	100
NO. 80	65	82	100
NO. 200	55	73	92
LIQUID LIMIT	35	35	48
PLASTICITY INDEX	16	15	22
AASHTO SOIL	A-6(6)	A-6(10)	A-7-6(23)
UNIFIED SOIL			
% MOISTURE CONTENT	28.2	25.4	19.9
ACHMSC (IN)	5.25	2.75	--
ACHMBC (IN)	4.0	--	--
AGG.BASE CRS CL-7 (IN)	5.0	7.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 40
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152189	20152190	20152191
SAMPLE ID	S346	S347	S348
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	820+00	820+00	828+00
LOCATION	18RT	26RT	06LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 47.10	35 40 47.20	35 40 51.20
LONGITUDE DEG-MIN-SEC	92 29 44.40	92 29 44.30	92 29 53.50
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	98	100
NO. 4	99	96	98
NO. 10	98	93	95
NO. 40	91	85	89
NO. 80	64	56	78
NO. 200	53	45	64
LIQUID LIMIT	25	21	28
PLASTICITY INDEX	12	07	12
AASHTO SOIL	A-6(3)	A-4(0)	A-6(5)
UNIFIED SOIL			
% MOISTURE CONTENT	23.5	23.3	23.1
ACHMSC (IN)	4.0	--	7.25W
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	9.0	--	5.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 41
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152192	20152193	20152194
SAMPLE ID	S349	S350	S351
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	828+00	828+00	836+00
LOCATION	18LT	26LT	06RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 51.10	35 40 51.10	35 40 51.30
LONGITUDE DEG-MIN-SEC	92 29 53.50	92 29 53.50	92 30 3.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99		
NO. 4	91	100	100
NO. 10	84	100	100
NO. 40	80	100	100
NO. 80	70	100	100
NO. 200	55	92	62
LIQUID LIMIT	24	48	29
PLASTICITY INDEX	07	22	13
AASHTO SOIL	A-4(1)	A-7-6(23)	A-6(5)
UNIFIED SOIL			
% MOISTURE CONTENT	24.6	29.1	20.6
ACHMSC (IN)	2.25	--	5.5
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	6.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/08/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 42
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152195	20152196	20152197
SAMPLE ID	S352	S353	S354
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	836+00	836+00	844+00
LOCATION	18RT	26RT	06LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 51.40	35 40 51.50	35 40 51.60
LONGITUDE DEG-MIN-SEC	92 30 3.60	92 30 3.60	92 30 12.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	97	100
NO. 4	98	86	99
NO. 10	90	84	97
NO. 40	80	75	92
NO. 80	63	64	87
NO. 200	47	59	80
LIQUID LIMIT	24	21	38
PLASTICITY INDEX	08	01	17
AASHTO SOIL	A-4(1)	A-4(0)	A-6(13)
UNIFIED SOIL			
% MOISTURE CONTENT	21.3	20.5	17.2
ACHMSC (IN)	3.5	--	6.75
ACHMBC (IN)	--	--	2.5
AGG.BASE CRS CL-7 (IN)	9.0	--	7.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 43
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152198	20152199	20152200
SAMPLE ID	S355	S356	S357
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	844+00	844+00	853+00
LOCATION	16LT	25LT	06RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 51.60	35 40 51.50	35 40 57.40
LONGITUDE DEG-MIN-SEC	92 30 12.70	92 30 12.70	92 30 20.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	98	98	99
NO. 4	96	97	97
NO. 10	93	96	91
NO. 40	89	91	80
NO. 80	80	87	68
NO. 200	69	85	57
LIQUID LIMIT	36	50	28
PLASTICITY INDEX	17	27	14
AASHTO SOIL	A-6(10)	A-7-6(24)	A-6(5)
UNIFIED SOIL			
% MOISTURE CONTENT	16.4	19.8	19.1
ACHMSC (IN)	4.5W	--	6.5
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	--	--	10.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 44
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152201	20152202	20152203
SAMPLE ID	S358	S359	S360
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	853+00	853+00	860+00
LOCATION	18RT	26RT	06LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 40 57.40	35 40 57.40	35 41 3.40
LONGITUDE DEG-MIN-SEC	92 30 20.50	92 30 20.40	92 30 25.00
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	100
3/8 IN.	99	98	99
NO. 4	96	97	97
NO. 10	91	94	94
NO. 40	83	85	87
NO. 80	66	64	85
NO. 200	55	50	47
LIQUID LIMIT	27	27	20
PLASTICITY INDEX	15	14	08
AASHTO SOIL	A-6(5)	A-6(3)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT	18.4	18.6	19.3
ACHMSC (IN)	3.5	--	5.75
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	11.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 45
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152204	20152205	20152206
SAMPLE ID	S361	S362	S363
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	860+00	860+00	868+00
LOCATION	19LT	30LT	06RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BROWN	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 3.30	35 41 3.30	35 41 11.20
LONGITUDE DEG-MIN-SEC	92 30 25.10	92 30 25.20	92 30 27.60
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			
3/8 IN.	100	100	100
NO. 4	99	99	97
NO. 10	96	97	96
NO. 40	88	90	92
NO. 80	72	72	73
NO. 200	53	63	60
LIQUID LIMIT	22	32	24
PLASTICITY INDEX	12	18	11
AASHTO SOIL	A-6(3)	A-6(8)	A-6(3)
UNIFIED SOIL			
% MOISTURE CONTENT	17.0	17.2	16.7
ACHMSC (IN)	4.0	--	5.25
ACHMBC (IN)	--	--	1.75
AGG.BASE CRS CL-7 (IN)	--	--	5.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/08/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 46
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152207	20152208	20152209
SAMPLE ID	S364	S365	S366
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	868+00	868+00	876+00
LOCATION	16RT	26RT	06LT
DEPTH IN FEET	0-5	0-5	0-2.5Z
MAT'L COLOR	BR/GR	BROWN	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 11.20	35 41 11.20	35 41 18.30
LONGITUDE DEG-MIN-SEC	92 30 27.50	92 30 27.40	92 30 30.80
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.			100
3/8 IN.			98
NO. 4	100	100	94
NO. 10	98	99	89
NO. 40	93	96	84
NO. 80	78	86	60
NO. 200	62	69	42
LIQUID LIMIT	22	29	20
PLASTICITY INDEX	09	15	05
AASHTO SOIL	A-4(3)	A-6(8)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	17.5	20.7	16.1
ACHMSC (IN)	3.5	--	5.5
ACHMBC (IN)	--	--	1.5
AGG.BASE CRS CL-7 (IN)	7.0	--	6.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 47
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152210	20152211	20152212
SAMPLE ID	S367	S368	S369
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	876+00	876+00	884+00
LOCATION	18LT	25LT	07RT
DEPTH IN FEET	0-5	0-2Z	0-4.5Z
MAT'L COLOR	BR/GR	GRAY	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 18.30	35 41 18.20	35 41 26.80
LONGITUDE DEG-MIN-SEC	92 30 30.90	92 30 31.00	92 30 37.20
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100	100	
3/8 IN.	99	97	100
NO. 4	95	88	97
NO. 10	91	81	94
NO. 40	84	69	89
NO. 80	67	53	70
NO. 200	51	41	54
LIQUID LIMIT	23	24	24
PLASTICITY INDEX	10	09	09
AASHTO SOIL	A-4(2)	A-4(0)	A-4(2)
UNIFIED SOIL			
% MOISTURE CONTENT	14.8	18.8	19.9
ACHMSC (IN)	3.5	--	6.0W
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	6.0	--	9.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 48
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152213	20152214	20152215
SAMPLE ID	S370	S371	S372
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	884+00	884+00	892+00
LOCATION	18RT	29RT	06LT
DEPTH IN FEET	0-4.5Z	0-4Z	0-5
MAT'L COLOR	GRAY	GRAY	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 26.90	35 41 26.90	35 41 31.80
LONGITUDE DEG-MIN-SEC	92 30 37.10	92 30 37.00	92 30 41.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	
3/8 IN.	100	97	100
NO. 4	98	92	97
NO. 10	97	87	93
NO. 40	93	82	87
NO. 80	79	69	68
NO. 200	71	62	54
LIQUID LIMIT	35	30	23
PLASTICITY INDEX	20	16	10
AASHTO SOIL	A-6(12)	A-6(7)	A-4(2)
UNIFIED SOIL			
% MOISTURE CONTENT	28.2	18.8	22.8
ACHMSC (IN)	4.5	--	6.0
ACHMBC (IN)	--	--	2.0
AGG.BASE CRS CL-7 (IN)	9.0	--	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 49
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152216	20152217	20152218
SAMPLE ID	S373	S374	S375
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	892+00	892+00	900+00
LOCATION	17LT	26LT	06RT
DEPTH IN FEET	0-5	0-5	0-2Z
MAT'L COLOR	BR/GR	BR/GR	GRAY
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 31.70	35 41 31.60	35 41 37.80
LONGITUDE DEG-MIN-SEC	92 30 41.50	92 30 41.60	92 30 47.00
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.	100		
3/8 IN.	99	100	100
NO. 4	98	99	97
NO. 10	98	96	92
NO. 40	91	90	87
NO. 80	84	73	50
NO. 200	80	58	27
LIQUID LIMIT	55	22	ND
PLASTICITY INDEX	32	07	NP
AASHTO SOIL	A-7-6(27)	A-4(1)	A-2-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	26.0	24.1	11.3
ACHMSC (IN)	3.5	--	6.0
ACHMBC (IN)	--	--	1.5
AGG.BASE CRS CL-7 (IN)	3.0	--	8.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
SEQUENCE NO. - 50
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20152219	20152220	20152221
SAMPLE ID	S376	S377	S378
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	900+00	900+00	908+00
LOCATION	16RT	26RT	09LT
DEPTH IN FEET	0-5	0-5	0-4Z
MAT'L COLOR	BR/GR	BR/GR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 41 37.90	35 41 37.90	35 41 44.10
LONGITUDE DEG-MIN-SEC	92 30 46.90	92 30 46.80	92 30 53.40
% PASSING 2 IN.			
1 1/2 IN.			
3/4 IN.		100	100
3/8 IN.	100	95	96
NO. 4	96	91	87
NO. 10	88	86	75
NO. 40	80	81	67
NO. 80	74	69	56
NO. 200	67	63	48
LIQUID LIMIT	30	32	20
PLASTICITY INDEX	14	16	06
AASHTO SOIL	A-6(7)	A-6(7)	A-4(0)
UNIFIED SOIL			
% MOISTURE CONTENT	28.2	29.3	10.2
ACHMSC (IN)	3.5	--	10.0W
ACHMBC (IN)	--	--	2.25
AGG.BASE CRS CL-7 (IN)	10.0	--	10.0

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

SEQUENCE NO. - 51
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152222	20152223
SAMPLE ID	S379	S380
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY
STATION	908+00	908+00
LOCATION	20LT	31LT
DEPTH IN FEET	0-5	0-5
MAT'L COLOR	BR/GR	BR/GR
MAT'L TYPE		
LATITUDE DEG-MIN-SEC	35 41 44.00	35 41 43.90
LONGITUDE DEG-MIN-SEC	92 30 53.50	92 30 53.60
% PASSING 2 IN.		
1 1/2 IN.		
3/4 IN.	100	
3/8 IN.	94	100
NO. 4	80	93
NO. 10	70	85
NO. 40	60	77
NO. 80	52	58
NO. 200	47	40
LIQUID LIMIT	27	19
PLASTICITY INDEX	10	05
AASHTO SOIL	A-4(2)	A-4(0)
UNIFIED SOIL		
% MOISTURE CONTENT	13.7	11.7
ACHMSC (IN)	12.0W	--
AGG.BASE CRS CL-7 (IN)	6.0	--

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS

SEQUENCE NO. - 1
MATERIAL CODE - RV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152224	20152225	20152226
SAMPLE ID	RV381	RV382	RV383
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	523+00	563+00	651+00
LOCATION	46LT	46RT	32LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 36 50.40	35 37 29.60	35 38 52.50
LONGITUDE DEG-MIN-SEC	92 27 34.30	92 27 25.60	92 27 36.00
% PASSING 2 IN.			
1 1/2 IN.		100	100
3/4 IN.	100	94	97
3/8 IN.	93	92	94
NO. 4	87	90	92
NO. 10	72	86	90
NO. 40	68	83	87
NO. 80	63	81	73
NO. 200	51	78	55
LIQUID LIMIT	29	52	21
PLASTICITY INDEX	16	30	08
AASHTO SOIL	A-4(2)	A-7-6(24)	A-4(1)
UNIFIED SOIL			
% MOISTURE CONTENT			

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 10/02/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE

SEQUENCE NO. - 2
MATERIAL CODE - RV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08

DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS

LAB NUMBER	20152227	20152228	20152229
SAMPLE ID	RV384	RV385	RV386
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	659+00	739+00	788+00
LOCATION	37RT	38 RT	37RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	35 39 .10	35 39 52.20	35 40 29.80
LONGITUDE DEG-MIN-SEC	92 27 34.00	92 28 37.30	92 29 14.60
% PASSING 2 IN.			
1 1/2 IN.	100		
3/4 IN.	89	100	
3/8 IN.	87	97	
NO. 4	85	94	100
NO. 10	81	93	100
NO. 40	75	91	100
NO. 80	62	87	100
NO. 200	52	85	94
LIQUID LIMIT	28	68	73
PLASTICITY INDEX	14	42	46
AASHTO SOIL	A-6(4)	A-7-6(39)	A-7-6(50)
UNIFIED SOIL			
% MOISTURE CONTENT			

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

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 09/30/15
JOB NUMBER - CA0801
FEDERAL AID NO.- TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - HWY.110-CLINTON (WIDENING) (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - VAN BUREN COUNTY
SAMPLED BY - S.FAULKNER
SAMPLE FROM - TEST HOLE
MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS

SEQUENCE NO. - 3
MATERIAL CODE - RV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 71
DISTRICT NO. - 08
DATE SAMPLED - 07/15/15
DATE RECEIVED - 07/16/15
DATE TESTED - 09/29/15

LAB NUMBER	20152230	20152231
SAMPLE ID	RV387	RV388
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY
STATION	828+00	892+00
LOCATION	26LT	26LT
DEPTH IN FEET	0-5	0-5
MAT'L COLOR	BROWN	BROWN
MAT'L TYPE		
LATITUDE DEG-MIN-SEC	35 40 51.10	35 41 31.60
LONGITUDE DEG-MIN-SEC	92 29 53.50	92 30 41.60
% PASSING 2 IN.		
1 1/2 IN.	100	
3/4 IN.	88	100
3/8 IN.	85	97
NO. 4	79	95
NO. 10	74	92
NO. 40	69	90
NO. 80	64	89
NO. 200	62	88
LIQUID LIMIT	52	56
PLASTICITY INDEX	28	32
AASHTO SOIL	A-7-6(15)	A-7-6(31)
UNIFIED SOIL		
% MOISTURE CONTENT		

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

AASHTO TESTS : T24 T88 T89 T90 T265