

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



SUBSURFACE INVESTIGATION

STATE JOB NO. 070284

FEDERAL AID PROJECT NO. NHPP-0007(19)

HWY. 172-HAMPTON (S)

STATE HIGHWAY 167 SECTION 3

IN CALHOUN COUNTY

LETTING OF AUGUST 10, 2016

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

August 29, 2013

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 070284
Hwy. 172 - Hampton (S)
Route 167 Section 3
Calhoun County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of widening approximately 5.8 miles of Highway 167 to a four lane divided highway. Samples were obtained in the existing travel lanes, shoulders, and ditch line. Locations were measured from centerline of the existing Highway and should be noted as such on the logs.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of non-plastic silty sands. Based on currently available cross-sections, the construction grade line closely matches that of the existing roadway. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. However if a stable working platform cannot be achieved, then stabilization with Portland cement is the most appropriate remediation technique. The addition of 7% Portland cement (by dry weight) mixed to a depth of 16 inches may be used for quantity estimation purposes. However, if the Engineer determines stabilization is necessary; field trials or local experience may dictate that a stable working platform may be achieved at a lower cement content.

The embankment heights are five feet or less. The embankments will be placed in the ditch line of Highway 167. Prior to embankment construction the soft organic material will need to be undercut to a depth of stable material. Undercut requirements will vary based on seasonal conditions, but are anticipated to be no more than two feet. Undercut areas should be backfilled with material meeting the minimum requirements of Class SM-1 Selected Material, Section 302 of the Standard Specifications for Highway Construction, Edition 2003. The remainder of the embankment may be constructed with locally available unspecified material utilizing the 3:1 slope configuration shown in the currently available cross-sections.

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 Jones Mill and Little Rock.
2. Asphalt Concrete Hot Mix

<u>Type</u>	PG64-22	
	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.3	94.7
Binder Course	4.3	95.7
Base Course	3.8	96.2

PG70-22		
Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.4	94.6
Binder Course	4.4	95.6
Base Course	4.1	95.9

PG76-22		
Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.2	94.8
Binder Course	4.2	95.8
Base Course	3.9	96.1



Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
District 7 Engineer
Planning 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 - 08/27/2013
JOB NUMBER - 070284

SEQUENCE NO. - 1
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2003
SUPPLIER ID. - 1
COUNTY/STATE - 07
DISTRICT NO. - 07

JOB NAME - HWY.172- HAMPTON (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB	LESS THAN 5
RESILIENT MODULUS STA.567+00	6210

REMARKS -

AASHTO TESTS : T190

JOB: 070284

Arkansas State Highway Transportation Department

JOB NAME: HWY.172- HAMPTON (S)

Materials Division

COUNTY NO. 7 DATE TESTED 8/20/2013

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					
319+00	30'LT	0-5	GR/BR	101	86	75	62	58	ND	NP	A-2-4(0)	RV1580	
431+00	30'LT	0-5	GR/BR	103	79	73	60	40	ND	NP	A-4(0)	RV1581	
567+00	35'RT	0-5	BROWN	100	99	91	80	69	ND	NP	A-4(0)	RV1582	
311+00	6'RT	0-5	BROWN	97	92	81	61	58	ND	NP	A-4(0)	S1474	13.5
311+00	18'RT	0-5	BROWN	95	91	86	71	61	22	8	A-2-6(10)	S1475	13.5
311+00	30'RT	0-5	BROWN	86	78	72	67	26	ND	NP	A-2-4(0)	S1476	13.5
319+00	6'LT	0-5	GR/BR	99	98	93	70	73	ND	NP	A-4(0)	S1477	8
319+00	18'LT	0-5	GR/BR	90	87	83	66	22	ND	NP	A-4(0)	S1478	10.7
319+00	30'LT	0-5	BR/GR	65	57	49	33	1	ND	NP	A-1-B(0)	S1479	10
327+00	6'RT	0-5	GRAY	99	93	87	71	12	ND	NP	A-4(0)	S1480	14.8
327+00	18'RT	0-5	GRAY	95	89	88	71	5	ND	NP	A-4(0)	S1481	15.5
327+00	30'RT	0-5	BR/GR	95	90	82	53	39	19	6	A-4(0)	S1482	12.2
335+00	6'LT	0-5	BR/RD	86	78	67	51	42	15	2	A-4(0)	S1483	13
335+00	18'LT	0-5	BR/RD	97	94	87	68	57	27	11	A-6(3)	S1484	15.3
335+00	30'LT	0-5	BR/RD	92	86	76	56	43	ND	NP	A-4(0)	S1485	9.3
343+00	6'RT	0-5	BROWN	98	95	89	62	40	ND	NP	A-4(0)	S1486	12.2
343+00	18'RT	0-5	BROWN	97	98	88	63	38	ND	NP	A-4(0)	S1487	9.8
351+00	6'LT	0-5	BR/GR	99	96	93	79	66	ND	NP	A-4(0)	S1488	15.3
351+00	18'LT	0-5	GR/BR	94	88	83	62	52	ND	NP	A-4(0)	S1489	13.4
351+00	30'LT	0-5	BR/GR	93	87	78	62	16	ND	NP	A-4(0)	S1490	17.7
359+00	6'RT	0-5	GR/BR	97	93	88	65	69	ND	NP	A-4(0)	S1491	10.5
359+00	18'RT	0-5	GR/BR	95	90	83	65	20	14	2	A-4(0)	S1492	11.9
359+00	30'RT	0-5	GR/BR	89	84	78	48	13	17	5	A-2-4(0)	S1493	11.5
367+00	6'LT	0-5	GR/BR	98	96	93	77	54	ND	NP	A-4(0)	S1494	13.2
367+00	18'LT	0-5	GR/BR	97	95	93	71	3	ND	NP	A-4(0)	S1495	15.5
367+00	30'LT	0-5	BROWN	94	87	83	69	10	ND	NP	A-4(0)	S1496	16.3

comments: W=MULTIPLE LAYERS, X=STRIPPED
 LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

Thursday, August 29, 2013

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
375+00	6'RT	0-5	GR/BR	100	99	88	70	48	ND	NP	A-4(0)	S1497	15.4
375+00	18'RT	0-5	BROWN	90	88	79	70	72	ND	NP	A-4(0)	S1498	12.5
375+00	30'RT	0-5	BROWN	98	94	80	60	40	ND	NP	A-4(0)	S1499	9.6
383+00	6'LT	0-5	BROWN	93	89	87	70	40	ND	NP	A-4(0)	S1500	10.4
383+00	18'LT	0-5	BR/GR	91	85	85	60	40	ND	NP	A-4(0)	S1501	11.5
383+00	30'LT	0-5	BROWN	93	92	81	77	40	ND	NP	A-2-4(0)	S1502	13.8
391+00	6'RT	0-5	BR/GR	90	87	84	84	80	ND	NP	A-4(0)	S1503	15.3
391+00	18'RT	0-5	BR/GR	92	85	76	57	30	ND	NP	A-4(0)	S1504	11.8
391+00	30'RT	0-5	BR/GR	90	90	80	58	47	17	4	A-4(0)	S1505	14.2
399+00	6'LT	0-5	BROWN	97	93	91	65	32	ND	NP	A-2-4(0)	S1506	17.4
399+00	18'LT	0-5	BROWN	97	94	92	77	42	ND	NP	A-2-4(0)	S1507	16
399+00	30'LT	0-5	BR/GR	94	89	84	61	39	ND	NP	A-4(0)	S1508	14.7
407+00	6'RT	0-5	BR/GR	98	94	90	74	47	15	3	A-4(0)	S1509	13.3
407+00	18'RT	0-5	BROWN	94	88	82	59	39	19	6	A-4(0)	S1510	14.7
407+00	30'RT	0-5	GR/RD	92	87	81	68	41	17	2	A-4(0)	S1511	14.4
415+00	6'LT	0-5	BROWN	90	90	88	75	40	ND	NP	A-4(0)	S1512	22.5
415+00	18'LT	0-5	BROWN	91	87	85	77	40	ND	NP	A-4(0)	S1513	13.4
415+00	30'LT	0-5	BROWN	88	87	78	62	40	ND	NP	A-4(0)	S1514	11.4
423+00	6'RT	0-5	BROWN	99	95	89	77	54	16	4	A-4(0)	S1515	8.9
423+00	18'RT	0-5	BR/GR	95	88	87	66	43	ND	NP	A-4(0)	S1516	13.4
423+00	30'RT	0-5	BR/RD	96	93	90	78	64	19	4	A-4(0)	S1517	14.9
431+00	6'LT	0-5	GR/BR	96	95	92	79	59	ND	NP	A-4(0)	S1518	11.6
431+00	18'LT	0-5	BR/GR	100	99	98	85	68	ND	NP	A-4(0)	S1519	13.1
431+00	30'LT	0-5	GR/BR	93	91	86	65	43	ND	NP	A-4(0)	S1520	12.6
439+00	6'RT	0-5	BR/GR	98	93	85	67	37	ND	NP	A-4(0)	S1521	14.6
439+00	18'RT	0-5	BR/GR	98	95	90	72	39	ND	NP	A-4(0)	S1522	10.6
439+00	30'RT	0-5	BR/RD	95	90	84	59	30	18	3	A-4(0)	S1523	10.4
447+00	9'LT	0-5	GRAY	100	99	99	92	60	ND	NP	A-4(0)	S1524	13

comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

Thursday, August 29, 2013

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
447+00	21'LT	0-5	BR/GR	96	93	90	87	50	ND	NP	A-4(0)	S1525	16.5
447+00	33'LT	0-5	GR/BR	96	93	90	87	50	ND	NP	A-4(0)	S1526	13.9
455+00	9'RT	0-5	BR/GR	97	93	90	87	50	ND	NP	A-4(0)	S1527	14.5
455+00	18'RT	0-5	BR/GR	99			92		16	4	A-4(0)	S1528	12.7
455+00	30'RT	0-5	BR/GR	94	97		91		ND	NP	A-4(0)	S1529	19
463+00	15'LT	0-5	BR/GR	99	97	95	83	52	ND	NP	A-4(0)	S1530	16.4
463+00	24'LT	0-5	BR/GR	97	93	88	75	39	ND	NP	A-4(0)	S1531	17.8
463+00	6'RT	0-5	BR/GR	97	92	87	73	50	ND	NP	A-4(0)	S1532	13.5
471+00	15'RT	0-5	BROWN	90	84	79	65	47	ND	NP	A-4(0)	S1533	11.9
471+00	30'RT	0-5	BROWN	94	92	90	77	38	ND	NP	A-4(0)	S1534	14.2
478+00	18'LT	0-5	BR/GR	84	77	71	60	37	15	3	A-4(0)	S1535	15.6
478+00	27'LT	0-5	BR/GR	96	93	89	81	39	23	10	A-4(0)	S1536	15.1
478+00	36'LT	0-5	GR/BR	94	90	87	70	50	19	4	A-4(0)	S1537	12
487+00	6'RT	0-5	BROWN	87	83	79	53	37	19	4	A-4(0)	S1538	12.6
487+00	15'RT	0-5	BROWN	98	96	93	84	54	ND	NP	A-4(0)	S1539	12.4
487+00	30'RT	0-5	BROWN	97	93	92	85	58	19	5	A-4(0)	S1540	10.5
495+00	18'LT	0-5	BR/GR	94	90	86	74	56	ND	NP	A-4(0)	S1541	16.2
495+00	27'LT	0-5	BR/GR	95	91	86	65	48	16	3	A-4(0)	S1542	13.8
495+00	36'LT	0-5	BR/GR	93	88	82	64	45	16	3	A-4(0)	S1543	11
503+00	6'RT	0-5	BROWN	98	94	91	82	72	17	3	A-4(0)	S1544	21.6
503+00	15'RT	0-5	BROWN	91	84	76	62	35	18	5	A-4(0)	S1545	15.1
503+00	30'RT	0-5	BR/RD	76	64	61	47	37	ND	NP	A-4(0)	S1546	15.7
511+00	18'LT	0-5	BROWN	97	92	87	78	57	ND	NP	A-4(0)	S1547	11.9
511+00	27'LT	0-5	BROWN	97	91	85	69	52	15	2	A-4(0)	S1548	11.7
511+00	36'LT	0-5	BROWN	89	82	76	71	45	ND	NP	A-4(0)	S1549	13.9
519+00	6'RT	0-5	GR/BR	99	98	96	89	73	ND	NP	A-4(0)	S1550	13.6
519+00	15'RT	0-5	BROWN	93	87	78	67	41	16	3	A-2-4(0)	S1551	11.6
519+00	30'RT	0-5	GR/BR	90	86	82	70	51	ND	NP	A-4(0)	S1552	15.5

comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

Thursday, August 29, 2013

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
527+00	18'LT	0-5	GR/BR	89	92	77	67	57	ND	NP	A-4(0)	S1553	11.7
527+00	27'LT	0-5	BROWN	91	88	80	68	48	ND	NP	A-4(0)	S1554	13.9
527+00	32'LT	0-5	GR/BR	87	92	95	67	46	ND	NP	A-4(0)	S1555	12.4
535+00	6'RT	0-5	GR/BR	92	97	77	81	9	ND	NP	A-4(0)	S1556	11.2
535+00	15'RT	0-5	GR/BR	85	78	7	9	70	ND	NP	A-4(0)	S1557	12.5
535+00	30'RT	0-5	BROWN	92	91	88	74	50	ND	NP	A-4(0)	S1558	13.4
543+00	27'LT	0-5	GR/BR	98	8	0	7		18	5	A-4(0)	S1559	15.9
543+00	32'LT	0-5	BR/GR	94	90	7		62	17	3	A-4(0)	S1560	12.5
551+00	15'RT	0-5	GR/BR	93	87	81	65	44	ND	NP	A-4(0)	S1561	15.4
551+00	30'RT	0-5	BR/RD	93	86	81	62	33	19	5	A-2-4(0)	S1562	9.5
559+00	6'LT	0-5	GR/BR	98	95	83	74	62	17	4	A-4(0)	S1563	13.8
559+00	18'LT	0-5	BROWN	96	94	90	61	38	21	9	A-4(0)	S1564	14.6
559+00	30'LT	0-5	BROWN	88	84	80	7	37	22	9	A-4(0)	S1565	13.5
567+00	6'RT	0-5	BR/GR	99	97	97	78	56	ND	NP	A-4(0)	S1566	12.8
567+00	18'RT	0-5	BR/GR	93	91	89	76	44	ND	NP	A-4(0)	S1567	13.5
567+00	30'RT	0-5	BR/GR	98	96	95	82	60	ND	NP	A-4(0)	S1568	14.7
575+00	6'LT	0-5	BR/GR	99	96	92	82	57	ND	NP	A-4(0)	S1569	14.1
575+00	18'LT	0-5	BR/GR	94	88		66	47	16	2	A-4(0)	S1570	12
583+00	6'RT	0-5	BROWN	100	96	90	79	50	ND	NP	A-4(0)	S1571	13.2
583+00	18'RT	0-5	BROWN	95	92	88	77	49	ND	NP	A-4(0)	S1572	13.3
583+00	30'RT	0-5	BROWN	98	94	89	76	51	ND	NP	A-4(0)	S1573	13.7
591+00	6'LT	0-5	GR/BR	100	99	95	80	63	ND	NP	A-4(0)	S1574	14.6
591+00	18'LT	0-5	GR/BR	99	97	94	74	55	ND	NP	A-4(0)	S1575	14.5
591+00	30'LT	0-5	BROWN	90	85	80	66	41	ND	NP	A-4(0)	S1576	13.3
599+00	18'RT	0-5	BROWN	96	95	83	7	3	ND	NP	A-4(0)	S1577	13.5
607+00	6'LT	0-5	GRAY	99	98	96	71	50	ND	NP	A-4(0)	S1578	14
607+00	28'RT	0-5	BROWN	75	64	84	25	20	ND	NP	A-2-4(0)	S1579	7.6

comments: W=MULTIPLE LAYERS, X=STRIPPED

Thursday, August 29, 2013

JOB: 070284

JOB NAME: HWY. 172- HAMPTON (S)

Arkansas State Highway Transportation Department
Materials Division

DATE TESTED

8/20/2013

COUNTY NO. 7

Michael Benson, Materials Engineer

PAVEMENT SOUNDINGS

STA.# LOC.

311+00	6'RT	ACHMSC 16.0WX	AGG.BASE CRS. CL-5 6.0
311+00	18'RT	ACHMSC 4.75WX	AGG.BASE CRS. CL-5 6.0
311+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
319+00	6'LT	ACHMSC 15.0WX	AGG.BASE CRS. CL-5 5.0
319+00	18'LT	ACHMSC 9.0WX	AGG.BASE CRS. CL-5 5.0
319+00	30'LT	ACHMSC	AGG.BASE CRS. CL-5
327+00	6'RT	ACHMSC 14.0WX	AGG.BASE CRS. CL-5 6.0
327+00	18'RT	ACHMSC 4.25WX	AGG.BASE CRS. CL-5 6.0
327+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
335+00	6'LT	ACHMSC 15.0WX	AGG.BASE CRS. CL-5 4.0
335+00	18'LT	ACHMSC 7.0W	AGG.BASE CRS. CL-5 6.0
335+00	30'LT	ACHMSC	AGG.BASE CRS. CL-5
343+00	6'RT	ACHMSC 14.0WX	AGG.BASE CRS. CL-5 12.0
343+00	18'RT	ACHMSC 3.25WX	AGG.BASE CRS. CL-5 6.0
351+00	6'LT	ACHMSC 19.0WX	AGG.BASE CRS. CL-5 6.0
351+00	18'LT	ACHMSC 7.0WX	AGG.BASE CRS. CL-5 5.0
351+00	30'LT	ACHMSC	AGG.BASE CRS. CL-5

comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

PAVEMENT SOUNDINGS

STA.# LOC.

359+00	6'RT	ACHMSC 16.0WX	AGG.BASE CRS. CL-5 8.0
359+00	18'RT	ACHMSC 3.75WX	AGG.BASE CRS. CL-5 6.0
359+00	30'RT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
367+00	6'LT	ACHMSC 20.0WX	AGG.BASE CRS. CL-5 5.0
367+00	18'LT	ACHMSC 6.0WX	AGG.BASE CRS. CL-5 4.0
367+00	30'LT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
375+00	6'RT	ACHMSC 15.5WX	AGG.BASE CRS. CL-5 8.0
375+00	18'RT	ACHMSC 4.0WX	AGG.BASE CRS. CL-5 6.0
375+00	30'RT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
383+00	6'LT	ACHMSC 21.0WX	AGG.BASE CRS. CL-5 8.0
383+00	18'LT	ACHMSC 4.0WX	AGG.BASE CRS. CL-5 4.0
383+00	30'LT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
391+00	6'RT	ACHMSC 16.5WX	AGG.BASE CRS. CL-5 7.0
391+00	18'RT	ACHMSC 3.75WX	AGG.BASE CRS. CL-5 6.0
391+00	30'RT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
399+00	6'LT	ACHMSC 14.0WX	AGG.BASE CRS. CL-5 4.0
399+00	18'LT	ACHMSC 5.0WX	AGG.BASE CRS. CL-5 4.0
399+00	30'LT	ACHMSC ---	AGG.BASE CRS. CL-5 ---
407+00	6'RT	ACHMSC 16.5WX	AGG.BASE CRS. CL-5 6.0

Comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

PAVEMENT SOUNDINGS

STA.# LOC.

407+00	18'RT	ACHMSC 4.5WX	AGG.BASE CRS. CL-5 6.0
407+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
415+00	6'LT	ACHMSC 17.0WX	AGG.BASE CRS. CL-5 4.0
415+00	18'LT	ACHMSC 6.0WX	AGG.BASE CRS. CL-5 5.0
415+00	30'LT	ACHMSC	AGG.BASE CRS. CL-5
423+00	6'RT	ACHMSC 14.5WX	AGG.BASE CRS. CL-5 6.0
423+00	18'RT	ACHMSC 3.5X	AGG.BASE CRS. CL-5 4.0
423+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
431+00	6'LT	ACHMSC 18.0WX	AGG.BASE CRS. CL-5 6.0
431+00	18'LT	ACHMSC 6.0WX	AGG.BASE CRS. CL-5 4.0
431+00	30'LT	ACHMSC	AGG.BASE CRS. CL-5
439+00	6'RT	ACHMSC 17.0WX	AGG.BASE CRS. CL-5 9.0
439+00	18'RT	ACHMSC 4.0WX	AGG.BASE CRS. CL-5 4.0
439+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
447+00	9'LT	ACHMSC 21.5WX	AGG.BASE CRS. CL-5 6.0
447+00	21'LT	ACHMSC 8.0WX	AGG.BASE CRS. CL-5 5.0
447+00	33'LT	ACHMSC	AGG.BASE CRS. CL-5
455+00	9'RT	ACHMSC 17.0WX	AGG.BASE CRS. CL-5 6.0
455+00	18'RT	ACHMSC 5.0WX	AGG.BASE CRS. CL-5 6.0

Comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

PAVEMENT SOUNDINGS

STA.# LOC.

455+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
463+00	15'LT	ACHMSC	AGG.BASE CRS. CL-5
		14.0WX	8.0
463+00	24'LT	ACHMSC	AGG.BASE CRS. CL-5
		8.0X	5.0
463+00	6'RT	ACHMSC	AGG.BASE CRS. CL-5
		19.25WX	6.0
471+00	15'RT	ACHMSC	AGG.BASE CRS. CL-5
		6.0W	6.0
471+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
478+00	18'LT	ACHMSC	AGG.BASE CRS. CL-5
		8.0WX	6.0
478+00	27'LT	ACHMSC	AGG.BASE CRS. CL-5
		8.0WX	6.0
478+00	36'LT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
487+00	6'RT	ACHMSC	AGG.BASE CRS. CL-5
		27.0WX	4.0
487+00	15'RT	ACHMSC	AGG.BASE CRS. CL-5
		10.0W	6.0
487+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
495+00	18'LT	ACHMSC	AGG.BASE CRS. CL-5
		8.0W	6.0
495+00	27'LT	ACHMSC	AGG.BASE CRS. CL-5
		5.0WX	5.0
495+00	36'LT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
503+00	6'RT	ACHMSC	AGG.BASE CRS. CL-5
		17.0WX	6.0
503+00	15'RT	ACHMSC	AGG.BASE CRS. CL-5
		9.5WX	7.0
503+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
		---	---
511+00	18'LT	ACHMSC	AGG.BASE CRS. CL-5
		9.5W	6.0

Comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

STA.# LOC.

PAVEMENT SOUNDINGS

511+00	27'LT	ACHMSC 9.0W	AGG.BASE CRS. CL-5 6.0
511+00	36'LT	ACHMSC	AGG.BASE CRS. CL-5
519+00	6'RT	ACHMSC 26.0WX	AGG.BASE CRS. CL-5 6.0
519+00	15'RT	ACHMSC 9.75WX	AGG.BASE CRS. CL-5 6.0
519+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
527+00	18'LT	ACHMSC 8.75W	AGG.BASE CRS. CL-5 6.0
527+00	27'LT	ACHMSC 8.0WX	AGG.BASE CRS. CL-5 6.0
527+00	32'LT	ACHMSC	ACHMBC AGG.BASE CRS.CL-5
535+00	6'RT	ACHMSC 6.0WX	ACHMBC AGG.BASE CRS.CL-5 7.0
535+00	15'RT	ACHMSC 8.0WX	ACHMBC AGG.BASE CRS.CL-5 6.0
535+00	30'RT	ACHMSC	AGG.BASE CRS. CL-5
543+00	27'LT	ACHMSC 8.0WX	AGG.BASE CRS. CL-5 6.0
543+00	32'LT	ACHMSC	AGG.BASE CRS. CL-5
551+00	15'RT	ACHMSC 10.0WX	ACHMBC ACHMSC AGG.BASE CRS.CL-5 4.0
551+00	30'RT	ACHMSC	ACHMBC ACHMSC AGG.BASE CRS.CL-5
559+00	6'LT	ACHMSC 4.0WX	ACHMBC ACHMSC AGG.BASE CRS.CL-5 4.0WX
559+00	18'LT	ACHMSC 7.0WX	AGG.BASE CRS.CL-5 5.0
559+00	30'LT	ACHMSC	AGG.BASE CRS.CL-5
567+00	6'RT	ACHMSC 16.0WX	AGG.BASE CRS.CL-5 6.0

Comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

STA.# LOC.

PAVEMENT SOUNDINGS

567+00	18'RT	ACHMSC 4.5WX	ACHMBC	ACHMSC	AGG.BASE CRS.CL-5 6.5
567+00	30'RT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL-5
575+00	6'LT	ACHMSC 4.0WX	ACHMBC 4.0WX	ACHMSC 7.0WX	AGG.BASE CRS.CL-5 6.0
575+00	18'LT	ACHMSC 7.25WX	AGG.BASE CRS.CL-5 5.0		
583+00	6'RT	ACHMSC 17.0WX	AGG.BASE CRS.CL-5 4.0		
583+00	18'RT	ACHMSC 6.0WX	AGG.BASE CRS.CL-5 6.0		
583+00	30'RT	ACHMSC	ACHMBC	ACHMSC	AGG.BASE CRS.CL-5
591+00	6'LT	ACHMSC 4.0WX	ACHMBC 4.0WX	ACHMSC 7.0WX	AGG.BASE CRS.CL-5 6.0
591+00	18'LT	ACHMSC 7.0WX	ACHMBC	ACHMSC	AGG.BASE CRS.CL-5 7.0
591+00	30'LT	ACHMSC	AGG.BASE CRS.CL-5		
599+00	18'RT	ACHMSC 3.5WX	AGG.BASE CRS.CL-5 6.0		
607+00	6'LT	ACHMSC 7.0WX	AGG.BASE CRS.CL-5		

comments: W=MULTIPLE LAYERS, X=STRIPPED
LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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

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

Job No.	070284	Material Code	SSRVPS
Date Sampled:	7/2/13	Station No.:	567+00
Date Tested:	August 26, 2013	Location:	35'RT
Name of Project:	HWY.172 - HAMPTON (S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	Dickerson	Depth:	0-5
Lab No.:	20133494	AASHTO Class:	A-4(0)
Sample ID:	RV1582	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	3.99
Middle	3.99
Bottom	3.99
Average	3.99
Membrane Thickness (in):	0.00
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):	12.50
Initial Volume, AoLo (cu. in):	100.03

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3237.00
------------------------------	---------

4. Soil Properties:

Optimum Moisture Content (%):	11.3
Maximum Dry Density (pcf):	116.5
95% of MDD (pcf):	110.7
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3237.00
Compaction Moisture content (%):	11.3
Compaction Wet Density (pcf):	123.30
Compaction Dry Density (pcf):	110.78
Moisture Content After Mr Test (%):	11.0

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

#VALUE!

7. Resilient Modulus, Mr:

5043(S_c)^{-0.06403}(S₃)^{0.50361}

8. Comments

9. Tested By:

MW/RC

Date: August 26, 2013

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

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

Job No. 070284 **Material Code** SSRVPS
Date Sampled: 7/2/13 **Station No.:** 567+00
Date Tested: August 26, 2013 **Location:** 35RT
Name of Project: HWY.172 - HAMPTON (S) **Depth:** 0-5
County: Code: 7 **Name:** CALHOUN **AASHTO Class:** A-4(0)
Sampled By: Dickerson **Material Type (1 or 2):** 2
Lab No.: 20133494 **LONGITUDE:**
Sample ID: RV1582
LATITUDE:

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
	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.6	22.9	2.7	2.0	1.8	0.2	0.00120	0.00015	12,242
Sequence 2	6.0	4.0	48.3	45.5	2.8	3.9	3.6	0.2	0.00246	0.00031	11,832
Sequence 3	6.0	6.0	71.8	68.0	3.8	5.7	5.4	0.3	0.00378	0.00047	11,494
Sequence 4	6.0	8.0	96.3	89.9	6.3	7.7	7.2	0.5	0.00512	0.00064	11,227
Sequence 5	6.0	10.0	120.4	111.5	8.9	9.6	8.9	0.7	0.00662	0.00083	10,775
Sequence 6	4.0	2.0	25.2	22.5	2.7	2.0	1.8	0.2	0.00146	0.00018	9,846
Sequence 7	4.0	4.0	46.7	43.9	2.8	3.7	3.5	0.2	0.00316	0.00039	8,896
Sequence 8	4.0	6.0	68.2	65.3	2.9	5.5	5.2	0.2	0.00490	0.00061	8,529
Sequence 9	4.0	8.0	92.2	86.7	5.5	7.4	6.9	0.4	0.00652	0.00082	8,507
Sequence 10	4.0	10.0	116.9	108.9	8.0	9.3	8.7	0.6	0.00797	0.00100	8,738
Sequence 11	2.0	2.0	24.1	21.4	2.7	1.9	1.7	0.2	0.00192	0.00024	7,100
Sequence 12	2.0	4.0	44.0	41.3	2.8	3.5	3.3	0.2	0.00414	0.00052	6,370
Sequence 13	2.0	6.0	63.7	60.8	2.9	5.1	4.9	0.2	0.00626	0.00078	6,210
Sequence 14	2.0	8.0	86.8	82.1	4.7	6.9	6.6	0.4	0.00810	0.00101	6,484
Sequence 15	2.0	10.0	110.7	103.5	7.2	8.9	8.3	0.6	0.00968	0.00121	6,844

TESTED BY _____ **DATE** August 26, 2013
REVIEWED BY _____ **DATE** _____
MW/RC _____

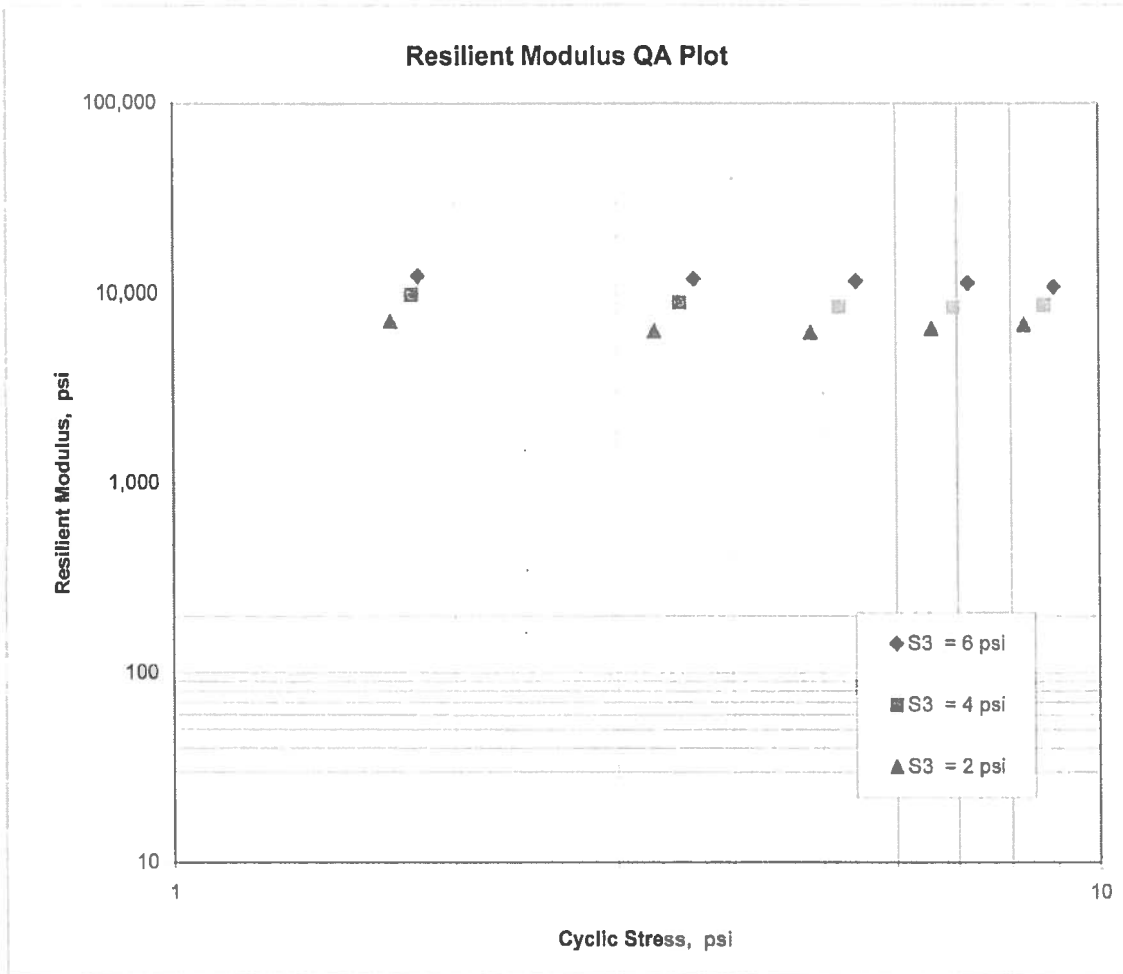
**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

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

Job No.	070284	Material Code	SSRVPS
Date Sampled:	7/2/13	Station No.:	567+00
Date Tested:	August 26, 2013	Location:	35'RT
Name of Project:	HWY.172 - HAMPTON (S)		
County:	Code: 7	Name:	CALHOUN
Sampled By:	Dickerson	Depth:	0-5
Lab No.:	20133494	AASHTO Class:	A-4(0)
Sample ID:	RV1582	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

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

K1 = 5,043
 K2 = -0.06403
 K5 = 0.50361
 R² = 0.97



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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 08/27/13	SEQUENCE NO.	- 1
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133386	- 20133387	- 20133388
SAMPLE ID	- S1474	- S1475	- S1476
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 311+00	- 311+00	- 311+00
LOCATION	- 6'RT	- 18'RT	- 30'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 27 10.20	- 33 27 10.20	- 33 27 10.20
LONGITUDE DEG-MIN-SEC	- 92 28 25.40	- 92 28 25.40	- 92 28 25.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	100
	3/8 IN. - 100	99	95
	NO. 4 - 97	95	86
	NO. 10 - 92	91	78
	NO. 40 - 81	86	72
	NO. 80 - 69	51	37
	NO. 200 - 53	35	26
LIQUID LIMIT	- ND	- 22	- ND
PLASTICITY INDEX	- NP	- 8	- NP
AASHTO SOIL	- A-4 (0)	- A-2-6 (10)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.5	- 13.5	- 13.5
ACHMSC (IN)	- 16.0WX	- 4.75WX	- ----
AGG.BASE CRS. CL-5 (IN)	- 6.0	- 6.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13	SEQUENCE NO. - 2
JOB NUMBER - 070284	MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED	SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 07
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CALHOUN COUNTY	DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON	DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE	DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	-	20133389	-	20133390	-	20133391
SAMPLE ID	-	S1477	-	S1478	-	S1479
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	319+00	-	319+00	-	319+00
LOCATION	-	6'LT	-	18'LT	-	30'LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	GR/BR	-	GR/BR	-	BR/GR
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 27 17.90	-	33 27 17.90	-	33 27 18.00
LONGITUDE DEG-MIN-SEC	-	92 28 23.90	-	92 28 24.00	-	92 28 24.20
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	100
	3/8	IN.	-	93	-	82
	NO. 4		-	99	-	65
	NO. 10		-	98	-	57
	NO. 40		-	93	-	49
	NO. 80		-	70	-	33
	NO. 200		-	44	-	21
LIQUID LIMIT	-	ND	-	ND	-	ND
PLASTICITY INDEX	-	NP	-	NP	-	NP
AASHTO SOIL	-	A-4(0)	-	A-4(0)	-	A-1-B(0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	8.0	-	10.7	-	10.0
ACHMSC (IN)	-	15.0WX	-	9.0WX	-	-----
AGG.BASE CRS. CL-5 (IN)	-	5.0	-	5.0	-	-----
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 3
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133392	- 20133393	- 20133394
SAMPLE ID	- S1480	- S1481	- S1482
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 327+00	- 327+00	- 327+00
LOCATION	- 6'RT	- 18'RT	- 30'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GRAY	- GRAY	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 27 25.60	- 33 27 25.60	- 33 27 25.60
LONGITUDE DEG-MIN-SEC	- 92 28 22.50	- 92 28 22.40	- 92 28 22.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	- 100	- 100
	3/8 IN. - 100	- 98	- 99
	NO. 4 - 99	- 95	- 95
	NO. 10 - 93	- 89	- 90
	NO. 40 - 87	- 83	- 82
	NO. 80 - 74	- 71	- 53
	NO. 200 - 62	- 58	- 39
LIQUID LIMIT	- ND	- ND	- 19
PLASTICITY INDEX	- NP	- NP	- 6
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.8	- 15.5	- 12.2
ACHMSC (IN)	- 14.0WX	- 4.25WX	- ----
AGG.BASE CRS. CL-5 (IN)	- 6.0	- 6.0	- ----
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 4
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133395	- 20133396	- 20133397
SAMPLE ID	- S1483	- S1484	- S1485
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 335+00	- 335+00	- 335+00
LOCATION	- 6'LT	- 18'LT	- 30'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/RD	- BR/RD	- BR/RD
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 27 33.50	- 33 27 33.50	- 33 27 33.50
LONGITUDE DEG-MIN-SEC	- 92 28 22.20	- 92 28 22.50	- 92 28 22.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 94	- 100	- 99
	NO. 4 - 86	- 97	- 92
	NO. 10 - 78	- 94	- 86
	NO. 40 - 67	- 87	- 76
	NO. 80 - 51	- 68	- 56
	NO. 200 - 42	- 57	- 43
LIQUID LIMIT	- 15	- 27	- ND
PLASTICITY INDEX	- 2	- 11	- NP
AASHTO SOIL	- A-4(0)	- A-6(3)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.0	- 15.3	- 9.3
ACHMSC (IN)	- 15.0WX	- 7.0W	- ----
AGG.BASE CRS. CL-5 (IN)	- 4.0	- 6.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 5
JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20133398	-	20133399	-	20133400
SAMPLE ID	-	S1486	-	S1487	-	S1488
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	343+00	-	343+00	-	351+00
LOCATION	-	6'RT	-	18'RT	-	6'LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BROWN	-	BROWN	-	BR/GR
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 27 41.50	-	33 27 41.50	-	33 27 49.50
LONGITUDE DEG-MIN-SEC	-	92 28 21.80	-	92 28 21.70	-	92 28 21.90
% PASSING						
2 IN.	-		-		-	
1 1/2 IN.	-		-		-	
3/4 IN.	-	100	-		-	
3/8 IN.	-	99	-	100	-	100
NO. 4	-	98	-	97	-	99
NO. 10	-	95	-	93	-	96
NO. 40	-	89	-	88	-	93
NO. 80	-	62	-	63	-	79
NO. 200	-	40	-	38	-	66
LIQUID LIMIT	-	ND	-	ND	-	ND
PLASTICITY INDEX	-	NP	-	NP	-	NP
AASHTO SOIL	-	A-4(0)	-	A-4(0)	-	A-4(0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	12.2	-	9.8	-	15.3
ACHMSC (IN)	-	14.0WX	-	3.25WX	-	19.0WX
AGG.BASE CRS. CL-5 (IN)	-	12.0	-	6.0	-	6.0
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	
	-		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 6
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.172- HAMPTON (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	-	20133401	-	20133402	-	20133403	
SAMPLE ID	-	S1489	-	S1490	-	S1491	
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY	
STATION	-	351+00	-	351+00	-	359+00	
LOCATION	-	18'LT	-	30'LT	-	6'RT	
DEPTH IN FEET	-	0-5	-	0-5	-	0-5	
MAT'L COLOR	-	GR/BR	-	BR/GR	-	GR/BR	
MAT'L TYPE	-	-	-	-	-	-	
LATITUDE DEG-MIN-SEC	-	33 27 49.50	-	33 27 49.50	-	33 27 57.30	
LONGITUDE DEG-MIN-SEC	-	92 28 21.90	-	92 28 22.00	-	92 28 21.20	
% PASSING	2	IN.	-	-	-	-	
	1 1/2	IN.	-	-	-	-	
	3/4	IN.	-	-	-	-	
	3/8	IN.	-	100	-	100	
	NO. 4	-	94	-	93	-	97
	NO. 10	-	88	-	87	-	83
	NO. 40	-	83	-	78	-	86
	NO. 80	-	66	-	59	-	55
	NO. 200	-	52	-	46	-	39
LIQUID LIMIT	-	ND	-	ND	-	ND	
PLASTICITY INDEX	-	NP	-	NP	-	NP	
AASHTO SOIL	-	A-4 (0)	-	A-4 (0)	-	A-4 (0)	
UNIFIED SOIL	-	-	-	-	-	-	
% MOISTURE CONTENT	-	13.4	-	17.7	-	10.5	
ACHMSC (IN)	-	7.0WX	-	----	-	16.0WX	
AGG.BASE CRS. CL-5 (IN)	-	5.0	-	----	-	8.0	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	
	-	-	-	-	-	-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 7
JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20133404	-	20133405	-	20133406
SAMPLE ID	-	S1492	-	S1493	-	S1494
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	359+00	-	359+00	-	367+00
LOCATION	-	18'RT	-	30'RT	-	6'LT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	GR/BR	-	GR/BR	-	GR/BR
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	33 27 57.30	-	33 27 57.30	-	33 28 5.20
LONGITUDE DEG-MIN-SEC	-	92 28 21.10	-	92 28 21.00	-	92 28 21.10
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	
	3/8	IN.	-	99	-	100
	NO. 4		-	95	-	98
	NO. 10		-	90	-	96
	NO. 40		-	83	-	93
	NO. 80		-	55	-	79
	NO. 200		-	40	-	54
LIQUID LIMIT	-	14	-	17	-	ND
PLASTICITY INDEX	-	2	-	5	-	NP
AASHTO SOIL	-	A-4 (0)	-	A-2-4 (0)	-	A-4 (0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	11.9	-	11.5	-	13.2
ACHMSC (IN)	-	3.75WX	-	----	-	20.0WX
AGG.BASE CRS. CL-5 (IN)	-	6.0	-	----	-	5.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 8
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133407	- 20133408	- 20133409
SAMPLE ID	- S1495	- S1496	- S1497
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 367+00	- 367+00	- 375+00
LOCATION	- 18'LT	- 30'LT	- 6'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GR/BR	- BROWN	- GR/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 5.20	- 33 28 5.20	- 33 28 13.40
LONGITUDE DEG-MIN-SEC	- 92 28 21.20	- 92 28 21.30	- 92 28 20.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 99	100	-
	NO. 4 - 97	94	100
	NO. 10 - 95	87	95
	NO. 40 - 93	83	88
	NO. 80 - 80	69	70
	NO. 200 - 56	50	49
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.5	- 16.3	- 15.4
ACHMSC (IN)	- 6.0WX	- ----	- 15.5WX
AGG.BASE CRS. CL-5 (IN)	- 4.0	- ----	- 8.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 9
 JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.172- HAMPTON (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
 SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
 SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20133410	20133411	20133412
SAMPLE ID	S1498	S1499	S1500
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	375+00	375+00	383+00
LOCATION	18'RT	30'RT	6'LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BROWN
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 28 13.30	33 28 13.30	33 28 21.10
LONGITUDE DEG-MIN-SEC	92 28 20.50	92 28 20.40	92 28 20.50
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	-	-
3/8 IN.	99	100	100
NO. 4	90	98	99
NO. 10	84	95	98
NO. 40	79	92	97
NO. 80	62	72	73
NO. 200	42	47	44
LIQUID LIMIT	ND	ND	ND
PLASTICITY INDEX	NP	NP	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL			
% MOISTURE CONTENT	12.5	9.6	10.4
ACHMSC (IN)	4.0WX	----	21.0WX
AGG.BASE CRS. CL-5 (IN)	6.0	----	8.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
 - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 10
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133413	- 20133414	- 20133415
SAMPLE ID	- S1501	- S1502	- S1503
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 383+00	- 383+00	- 391+00
LOCATION	- 18'LT	- 30'LT	- 6'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 21.10	- 33 28 21.10	- 33 28 28.80
LONGITUDE DEG-MIN-SEC	- 92 28 20.60	- 92 28 20.70	- 92 28 19.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	100	100
	NO. 4 - 98	99	99
	NO. 10 - 96	96	96
	NO. 40 - 95	92	96
	NO. 80 - 72	88	92
	NO. 200 - 41	54	84
		34	63
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-2-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.5	- 13.8	- 15.3
ACHMSC (IN)	- 4.0WX	-	- 16.5WX
AGG.BASE CRS. CL-5 (IN)	- 4.0	-	- 7.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 11
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133416	- 20133417	- 20133418
SAMPLE ID	- S1504	- S1505	- S1506
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 391+00	- 391+00	- 399+00
LOCATION	- 18'RT	- 30'RT	- 6'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 28.80	- 33 28 28.80	- 33 28 36.60
LONGITUDE DEG-MIN-SEC	- 92 28 19.90	- 92 28 19.70	- 92 28 19.80
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	- 100	-
3/8 IN.	- 98	- 98	- 100
NO. 4	- 92	- 90	- 97
NO. 10	- 85	- 90	- 93
NO. 40	- 76	- 80	- 91
NO. 80	- 57	- 58	- 65
NO. 200	- 38	- 37	- 32
LIQUID LIMIT	- ND	- 17	- ND
PLASTICITY INDEX	- NP	- 4	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.8	- 14.2	- 17.4
ACHMSC (IN)	- 3.75WX	- ----	- 14.0WX
AGG.BASE CRS. CL-5 (IN)	- 6.0	- ----	- 4.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 12
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133419	- 20133420	- 20133421
SAMPLE ID	- S1507	- S1508	- S1509
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 399+00	- 399+00	- 407+00
LOCATION	- 18'LT	- 30'LT	- 6'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 36.60	- 33 28 36.60	- 33 28 44.30
LONGITUDE DEG-MIN-SEC	- 92 28 20.00	- 92 28 20.10	- 92 28 19.40
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 97	- 94	- 98
	NO. 10 - 94	- 89	- 94
	NO. 40 - 92	- 84	- 90
	NO. 80 - 67	- 61	- 74
	NO. 200 - 32	- 39	- 47
LIQUID LIMIT	- ND	- ND	- 15
PLASTICITY INDEX	- NP	- NP	- 3
AASHTO SOIL	- A-2-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 16.0	- 14.7	- 13.3
ACHMSC (IN)	- 5.0WX	- ----	- 16.5WX
AGG.BASE CRS. CL-5 (IN)	- 4.0	- ----	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 13
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133422	- 20133423	- 20133424
SAMPLE ID	- S1510	- S1511	- S1512
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 407+00	- 407+00	- 415+00
LOCATION	- 18'RT	- 30'RT	- 6'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GR/RD	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 44.30	- 33 28 44.30	- 33 28 52.50
LONGITUDE DEG-MIN-SEC	- 92 28 19.30	- 92 28 19.20	- 92 28 19.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 97	- 98	- 100
	NO. 4 - 94	- 92	- 96
	NO. 10 - 88	- 87	- 90
	NO. 40 - 82	- 84	- 88
	NO. 80 - 59	- 66	- 75
	NO. 200 - 39	- 41	- 42
LIQUID LIMIT	- 19	- 17	- ND
PLASTICITY INDEX	- 6	- 2	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.7	- 14.4	- 22.5
ACHMSC (IN)	- 4.5WX	- ----	- 17.0WX
AGG.BASE CRS. CL-5 (IN)	- 6.0	- ----	- 4.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 14
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.172- HAMPTON (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20133425	- 20133426	- 20133427
SAMPLE ID	- S1513	- S1514	- S1515
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 415+00	- 415+00	- 423+00
LOCATION	- 18'LT	- 30'LT	- 6'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 28 52.50	- 33 28 52.50	- 33 29 .50
LONGITUDE DEG-MIN-SEC	- 92 28 19.40	- 92 28 19.50	- 92 28 18.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 96	- 100	- 100
	NO. 4 - 91	- 88	- 99
	NO. 10 - 87	- 82	- 95
	NO. 40 - 85	- 78	- 89
	NO. 80 - 75	- 62	- 77
	NO. 200 - 44	- 39	- 54
LIQUID LIMIT	- ND	- ND	- 16
PLASTICITY INDEX	- NP	- NP	- 4
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.4	- 11.4	- 8.9
ACHMSC (IN)	- 6.0WX	- ----	- 14.5WX
AGG.BASE CRS. CL-5 (IN)	- 5.0	- ----	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 15
JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20133428	20133429	20133430
SAMPLE ID	S1516	S1517	S1518
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	423+00	423+00	431+00
LOCATION	18'RT	30'RT	6'LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	BR/RD	GR/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	33 29 .50	33 29 .50	33 29 8.40
LONGITUDE DEG-MIN-SEC	92 28 18.60	92 28 18.50	92 28 18.60
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	100	-
3/8 IN.	99	99	100
NO. 4	95	96	98
NO. 10	88	93	95
NO. 40	87	90	92
NO. 80	66	78	79
NO. 200	43	54	59
LIQUID LIMIT	ND	19	ND
PLASTICITY INDEX	NP	4	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	13.4	14.9	11.6
ACHMSC (IN)	3.5X	----	18.0WX
AGG.BASE CRS. CL-5 (IN)	4.0	----	6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 16
JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20133431	-	20133432	-	20133433
SAMPLE ID	-	S1519	-	S1520	-	S1521
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	431+00	-	431+00	-	439+00
LOCATION	-	18'LT	-	30'LT	-	6'RT
DEPTH IN FEET	-	0-5	-	0-5	-	0-5
MAT'L COLOR	-	BR/GR	-	GR/BR	-	BR/GR
MAT'L TYPE	-	-	-	-	-	-
LATITUDE DEG-MIN-SEC	-	33 29 8.40	-	33 29 8.40	-	33 29 16.40
LONGITUDE DEG-MIN-SEC	-	92 28 18.70	-	92 28 18.90	-	92 28 18.20
% PASSING	2	IN.	-	-	-	-
	1 1/2	IN.	-	-	-	-
	3/4	IN.	-	100	-	-
	3/8	IN.	-	98	-	100
	NO. 4	-	100	93	-	98
	NO. 10	-	99	91	-	93
	NO. 40	-	98	86	-	85
	NO. 80	-	85	65	-	67
	NO. 200	-	63	43	-	37
LIQUID LIMIT	-	ND	-	ND	-	ND
PLASTICITY INDEX	-	NP	-	NP	-	NP
AASHTO SOIL	-	A-4 (0)	-	A-4 (0)	-	A-4 (0)
UNIFIED SOIL	-	-	-	-	-	-
% MOISTURE CONTENT	-	13.1	-	12.6	-	14.6
ACHMSC	(IN)	6.0WX	-	----	-	17.0WX
AGG.BASE CRS. CL-5	(IN)	4.0	-	----	-	9.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 17
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.172- HAMPTON (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20133434	- 20133435	- 20133436
SAMPLE ID	- S1522	- S1523	- S1524
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 439+00	- 439+00	- 447+00
LOCATION	- 18'RT	- 30'RT	- 9'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/RD	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 29 16.40	- 33 29 16.40	- 33 29 24.40
LONGITUDE DEG-MIN-SEC	- 92 28 18.00	- 92 28 17.90	- 92 28 18.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 98	- 95	- 100
	NO. 10 - 95	- 90	- 99
	NO. 40 - 90	- 84	- 99
	NO. 80 - 62	- 59	- 92
	NO. 200 - 39	- 36	- 68
LIQUID LIMIT	- ND	- 18	- ND
PLASTICITY INDEX	- NP	- 3	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.6	- 10.4	- 13.0
ACHMSC (IN)	- 4.0WX	- ----	- 21.5WX
AGG.BASE CRS. CL-5 (IN)	- 4.0	- ----	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 18
 JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.172- HAMPTON (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
 SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
 SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20133437	20133438	20133439
SAMPLE ID	S1525	S1526	S1527
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	447+00	447+00	455+00
LOCATION	21'LT	33'LT	9'RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BR/GR	GR/BR	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 29 24.40	33 29 24.40	33 29 32.30
LONGITUDE DEG-MIN-SEC	92 28 18.10	92 28 18.30	92 28 17.50
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	100	-
3/8 IN.	99	99	100
NO. 4	96	96	97
NO. 10	93	93	93
NO. 40	90	90	86
NO. 80	68	71	77
NO. 200	50	48	56
LIQUID LIMIT	ND	ND	ND
PLASTICITY INDEX	NP	NP	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL			
% MOISTURE CONTENT	16.5	13.9	14.5
ACHMSC (IN)	8.0WX	----	17.0WX
AGG.BASE CRS. CL-5 (IN)	5.0	----	6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
 - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 19
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	-	20133440	-	20133441	-	20133442
SAMPLE ID	-	S1528	-	S1529	-	S1530
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	455+00	-	455+00	-	463+00
LOCATION	-	18'RT	-	30'RT	-	15'LT
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	-	33 29 32.30	-	33 29 32.30	-	33 29 40.10
LONGITUDE DEG-MIN-SEC	-	92 28 17.40	-	92 28 17.30	-	92 28 17.50
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	
	3/8	IN.	-	99	-	100
	NO. 4		-	89	-	99
	NO. 10		-	83	-	97
	NO. 40		-	73	-	95
	NO. 80		-	62	-	83
	NO. 200		-	44	-	52
LIQUID LIMIT	-	16	-	ND	-	ND
PLASTICITY INDEX	-	4	-	NP	-	NP
AASHTO SOIL	-	A-4 (0)	-	A-4 (0)	-	A-4 (0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	12.7	-	19.0	-	16.4
ACHMSC	(IN)	5.0WX	-	----	-	14.0WX
AGG.BASE CRS. CL-5	(IN)	6.0	-	----	-	8.0
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 20
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133443	- 20133444	- 20133445
SAMPLE ID	- S1531	- S1532	- S1533
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 463+00	- 463+00	- 471+00
LOCATION	- 24'LT	- 6'RT	- 15'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BR/GR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 29 40.10	- 33 29 48.00	- 33 29 48.00
LONGITUDE DEG-MIN-SEC	- 92 28 17.50	- 92 28 16.80	- 92 28 16.80
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 99	- 99
	NO. 4 - 97	- 97	- 90
	NO. 10 - 93	- 94	- 84
	NO. 40 - 88	- 87	- 79
	NO. 80 - 75	- 73	- 63
	NO. 200 - 49	- 50	- 41
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 17.8	- 13.5	- 11.9
ACHMSC (IN)	- 8.0X	- 19.25WX	- 6.0W
AGG.BASE CRS. CL-5 (IN)	- 5.0	- 6.0	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 21
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133446	- 20133447	- 20133448
SAMPLE ID	- S1534	- S1535	- S1536
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 471+00	- 478+00	- 478+00
LOCATION	- 30'RT	- 18'LT	- 27'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 29 48.00	- 33 29 54.90	- 33 29 54.90
LONGITUDE DEG-MIN-SEC	- 92 28 16.60	- 92 28 16.90	- 92 28 17.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 97	- 94	- 99
	NO. 4 - 94	- 84	- 96
	NO. 10 - 92	- 77	- 93
	NO. 40 - 90	- 71	- 89
	NO. 80 - 77	- 60	- 61
	NO. 200 - 52	- 47	- 39
LIQUID LIMIT	- ND	- 15	- 23
PLASTICITY INDEX	- NP	- 3	- 10
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.2	- 15.6	- 15.1
ACHMSC (IN)	- ----	- 8.0WX	- 8.0WX
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 6.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 22
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT - HWY.172- HAMPTON (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20133449	- 20133450	- 20133451
SAMPLE ID	- S1537	- S1538	- S1539
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 478+00	- 487+00	- 487+00
LOCATION	- 36'LT	- 6'RT	- 15'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GR/BR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 29 54.90	- 33 30 3.70	- 33 30 3.60
LONGITUDE DEG-MIN-SEC	- 92 28 17.00	- 92 28 16.20	- 92 28 16.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 98	- 94	- 100
	NO. 4 - 94	- 87	- 98
	NO. 10 - 90	- 83	- 96
	NO. 40 - 87	- 79	- 93
	NO. 80 - 70	- 53	- 84
	NO. 200 - 50	- 37	- 64
LIQUID LIMIT	- 19	- 19	- ND
PLASTICITY INDEX	- 4	- 4	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 12.0	- 12.6	- 12.4
ACHMSC (IN)	- ----	- 27.0WX	- 10.0W
AGG.BASE CRS. CL-5 (IN)	- ----	- 4.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 23
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133452	- 20133453	- 20133454
SAMPLE ID	- S1540	- S1541	- S1542
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 487+00	- 495+00	- 495+00
LOCATION	- 30'RT	- 18'LT	- 27'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BR/GR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 3.60	- 33 30 10.90	- 33 30 11.00
LONGITUDE DEG-MIN-SEC	- 92 28 16.10	- 92 28 16.10	- 92 28 16.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	- 100
	3/8 IN. - 99	- 97	- 98
	NO. 4 - 97	- 94	- 95
	NO. 10 - 95	- 90	- 91
	NO. 40 - 92	- 86	- 86
	NO. 80 - 55	- 74	- 65
	NO. 200 - 38	- 56	- 48
LIQUID LIMIT	- 19	- ND	- 16
PLASTICITY INDEX	- 5	- NP	- 3
AASHTO SOIL	- A-4(0)	- A-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.5	- 16.2	- 13.8
ACHMSC (IN)	- ----	- 8.0W	- 5.0WX
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 5.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 24
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133455	- 20133456	- 20133457
SAMPLE ID	- S1543	- S1544	- S1545
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 495+00	- 503+00	- 503+00
LOCATION	- 36'LT	- 6'RT	- 15'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 11.00	- 33 30 19.20	- 33 30 19.20
LONGITUDE DEG-MIN-SEC	- 92 28 16.40	- 92 28 15.60	- 92 28 15.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	100
	3/8 IN. - 96	100	99
	NO. 4 - 93	98	91
	NO. 10 - 88	94	84
	NO. 40 - 82	91	76
	NO. 80 - 64	82	62
	NO. 200 - 46	72	45
LIQUID LIMIT	- 16	- 17	- 18
PLASTICITY INDEX	- 3	- 3	- 5
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 11.0	- 21.6	- 15.1
ACHMSC (IN)	- ----	- 17.0WX	- 9.5WX
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 7.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 25
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133458	- 20133459	- 20133460
SAMPLE ID	- S1546	- S1547	- S1548
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 503+00	- 511+00	- 511+00
LOCATION	- 30'RT	- 18'LT	- 27'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/RD	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 19.20	- 33 30 27.20	- 33 30 27.30
LONGITUDE DEG-MIN-SEC	- 92 28 15.50	- 92 28 15.50	- 92 28 15.70
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	-
	3/8 IN.	- 90	- 100
	NO. 4	- 71	- 97
	NO. 10	- 64	- 91
	NO. 40	- 61	- 85
	NO. 80	- 47	- 69
	NO. 200	- 37	- 52
LIQUID LIMIT	- ND	- ND	- 15
PLASTICITY INDEX	- NP	- NP	- 2
AASHTO SOIL	- A-4(0)	- A-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.7	- 11.9	- 11.7
ACHMSC (IN)	- ----	- 9.5W	- 9.0W
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 26
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133461	- 20133462	- 20133463
SAMPLE ID	- S1549	- S1550	- S1551
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 511+00	- 519+00	- 519+00
LOCATION	- 36'LT	- 6'RT	- 15'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GR/BR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 27.30	- 33 30 35.20	- 33 30 35.10
LONGITUDE DEG-MIN-SEC	- 92 28 15.80	- 92 28 15.00	- 92 28 14.90
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	-	-
3/8 IN.	- 99	- 100	- 100
NO. 4	- 89	- 99	- 93
NO. 10	- 82	- 98	- 87
NO. 40	- 76	- 96	- 78
NO. 80	- 61	- 89	- 37
NO. 200	- 45	- 73	- 19
LIQUID LIMIT	- ND	- ND	- 16
PLASTICITY INDEX	- NP	- NP	- 3
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.9	- 13.6	- 11.6
ACHMSC (IN)	- ----	- 26.0WX	- 9.75WX
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 27
JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	- 20133464	- 20133465	- 20133466
SAMPLE ID	- S1552	- S1553	- S1554
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 519+00	- 527+00	- 527+00
LOCATION	- 30'RT	- 18'LT	- 27'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GR/BR	- GR/BR	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 35.10	- 33 30 43.20	- 33 30 43.20
LONGITUDE DEG-MIN-SEC	- 92 28 14.80	- 92 28 14.80	- 92 28 15.10
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	- 100
	3/8 IN. - 94	- 100	- 98
	NO. 4 - 90	- 89	- 94
	NO. 10 - 86	- 82	- 88
	NO. 40 - 82	- 77	- 80
	NO. 80 - 70	- 62	- 64
	NO. 200 - 51	- 47	- 43
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.5	- 11.7	- 13.9
ACHMSC (IN)	- ----	- 8.75W	- 8.0WX
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 28
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133467	- 20133468	- 20133469
SAMPLE ID	- S1555	- S1556	- S1557
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 527+00	- 535+00	- 535+00
LOCATION	- 32'LT	- 6'RT	- 15'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GR/BR	- GR/BR	- GR/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 43.20	- 33 30 51.10	- 33 30 51.10
LONGITUDE DEG-MIN-SEC	- 92 28 15.10	- 92 28 14.30	- 92 28 14.30
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	-	- 100
3/8 IN.	- 99	- 100	- 94
NO. 4	- 96	- 99	- 85
NO. 10	- 92	- 97	- 78
NO. 40	- 85	- 95	- 73
NO. 80	- 67	- 81	- 59
NO. 200	- 45	- 49	- 40
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 12.4	- 11.2	- 12.5
ACHMSC (IN)	- ----	- 6.0WX	- 8.0WX
ACHMBC (IN)	- ----	- 7.0WX	- ----
AGG.BASE CRS.CL-5 (IN)	- ----	- 7.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 29
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133470	- 20133471	- 20133472
SAMPLE ID	- S1558	- S1559	- S1560
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 535+00	- 543+00	- 543+00
LOCATION	- 30'RT	- 27'LT	- 32'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- GR/BR	- BR/GR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 30 51.10	- 33 30 59.20	- 33 30 59.20
LONGITUDE DEG-MIN-SEC	- 92 28 14.20	- 92 28 14.40	- 92 28 14.50
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 99	- 98	- 100
	NO. 4 - 94	- 98	- 94
	NO. 10 - 91	- 93	- 90
	NO. 40 - 88	- 88	- 86
	NO. 80 - 74	- 78	- 77
	NO. 200 - 50	- 64	- 62
LIQUID LIMIT	- ND	- 18	- 17
PLASTICITY INDEX	- NP	- 5	- 3
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.4	- 15.9	- 12.5
ACHMSC (IN)	- ----	- 8.0WX	- ----
AGG.BASE CRS. CL-5 (IN)	- ----	- 6.0	- ----
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 30
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133473	- 20133474	- 20133475
SAMPLE ID	- S1561	- S1562	- S1563
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 551+00	- 551+00	- 559+00
LOCATION	- 15'RT	- 30'RT	- 6'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- GR/BR	- BR/RD	- GR/BR
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 31 7.10	- 33 31 7.10	- 33 31 15.00
LONGITUDE DEG-MIN-SEC	- 92 28 13.70	- 92 28 13.60	- 92 28 13.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 97	- 100	- 100
	NO. 4 - 93	- 93	- 98
	NO. 10 - 87	- 86	- 95
	NO. 40 - 81	- 81	- 89
	NO. 80 - 65	- 52	- 78
	NO. 200 - 44	- 33	- 62
LIQUID LIMIT	- ND	- 19	- 17
PLASTICITY INDEX	- NP	- 5	- 4
AASHTO SOIL	- A-4 (0)	- A-2-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.4	- 9.5	- 13.8
ACHMSC (IN)	- 10.0WX	- ----	- 4.0WX
ACHMBC (IN)	- ----	- ----	- 4.0WX
ACHMSC (IN)	- ----	- ----	- 4.0WX
AGG.BASE CRS.CL-5 (IN)	- 4.0	- ----	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 31
 JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.172- HAMPTON (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
 SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
 SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20133476	20133477	20133478
SAMPLE ID	S1564	S1565	S1566
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	559+00	559+00	567+00
LOCATION	18'LT	30'LT	6'RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BROWN	BR/GR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 31 15.00	33 31 15.00	33 31 22.90
LONGITUDE DEG-MIN-SEC	92 28 13.80	92 28 13.90	92 28 13.20
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	100	-
3/8 IN.	98	97	100
NO. 4	96	88	99
NO. 10	94	84	97
NO. 40	90	80	94
NO. 80	51	53	83
NO. 200	36	37	56
LIQUID LIMIT	21	22	ND
PLASTICITY INDEX	9	9	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL			
% MOISTURE CONTENT	14.6	13.5	12.8
ACHMSC (IN)	7.0WX	-	16.0WX
AGG.BASE CRS.CL-5 (IN)	5.0	-	6.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
 - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 32
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133479	- 20133480	- 20133481
SAMPLE ID	- S1567	- S1568	- S1569
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 567+00	- 567+00	- 575+00
LOCATION	- 18'RT	- 30'RT	- 6'LT
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	- 33 31 22.90	- 33 31 22.90	- 33 31 30.80
LONGITUDE DEG-MIN-SEC	- 92 28 13.10	- 92 28 13.00	- 92 28 13.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 94	- 100	- 100
	NO. 4 - 93	- 98	- 99
	NO. 10 - 91	- 96	- 96
	NO. 40 - 89	- 93	- 92
	NO. 80 - 76	- 82	- 82
	NO. 200 - 44	- 60	- 57
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4(0)	- A-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.5	- 14.7	- 14.1
ACHMSC (IN)	- 4.5WX	- ----	- 4.0WX
ACHMBC (IN)	- ----	- ----	- 4.0WX
ACHMSC (IN)	- ----	- ----	- 7.0WX
AGG.BASE CRS.CL-5 (IN)	- 6.5	- ----	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13	SEQUENCE NO. - 33
JOB NUMBER - 070284	MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED	SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE	SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK	COUNTY/STATE - 07
SUPPLIER NAME - STATE	DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)	
PROJECT ENGINEER - NOT APPLICABLE	
PIT/QUARRY - ARKANSAS	
LOCATION - CALHOUN COUNTY	DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON	DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE	DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS	

LAB NUMBER	- 20133482	- 20133483	- 20133484
SAMPLE ID	- S1570	- S1571	- S1572
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 575+00	- 583+00	- 583+00
LOCATION	- 18'LT	- 6'RT	- 18'RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 31 30.90	- 33 31 38.70	- 33 31 38.70
LONGITUDE DEG-MIN-SEC	- 92 28 13.10	- 92 28 12.50	- 92 28 12.40
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	- 100	-	- 100
3/8 IN.	- 99	-	- 99
NO. 4	- 94	- 100	- 95
NO. 10	- 88	- 96	- 92
NO. 40	- 81	- 90	- 88
NO. 80	- 66	- 79	- 77
NO. 200	- 47	- 50	- 49
LIQUID LIMIT	- 16	- ND	- ND
PLASTICITY INDEX	- 2	- NP	- NP
AASHTO SOIL	- A-4(0)	- A-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 12.0	- 13.2	- 13.3
ACHMSC (IN)	- 7.25WX	- 17.0WX	- 6.0WX
AGG.BASE CRS.CL-5 (IN)	- 5.0	- 4.0	- 6.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/27/13 SEQUENCE NO. - 34
 JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.172- HAMPTON (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
 SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
 SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20133485	20133486	20133487
SAMPLE ID	S1573	S1574	S1575
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	583+00	591+00	591+00
LOCATION	30'RT	6'LT	18'LT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	GR/BR	GR/BR
MAT'L TYPE			
LATITUDE DEG-MIN-SEC	33 31 38.70	33 31 46.50	33 31 46.60
LONGITUDE DEG-MIN-SEC	92 28 12.30	92 28 12.40	92 28 12.50
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	100	-	100
NO. 4	98	100	99
NO. 10	94	99	97
NO. 40	89	95	94
NO. 80	76	80	78
NO. 200	51	53	55
LIQUID LIMIT	ND	ND	ND
PLASTICITY INDEX	NP	NP	NP
AASHTO SOIL	A-4 (0)	A-4 (0)	A-4 (0)
UNIFIED SOIL			
% MOISTURE CONTENT	13.7	14.6	14.5
ACHMSC (IN)	----	4.0WX	7.0WX
ACHMBC (IN)	----	4.0WX	----
ACHMSC (IN)	----	7.0WX	----
AGG.BASE CRS.CL-5 (IN)	----	6.0	7.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
 - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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	- 08/27/13	SEQUENCE NO.	- 35
JOB NUMBER	- 070284	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 07
SUPPLIER NAME	- STATE	DISTRICT NO.	- 07
NAME OF PROJECT	- HWY.172- HAMPTON (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CALHOUN COUNTY	DATE SAMPLED	- 06/25/13
SAMPLED BY	- DICKERSON	DATE RECEIVED	- 07/09/13
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 08/20/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20133488	- 20133489	- 20133490
SAMPLE ID	- S1576	- S1577	- S1578
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 591+00	- 599+00	- 607+00
LOCATION	- 30'LT	- 18'RT	- 6'LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- GRAY
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 33 31 46.60	- 33 31 54.70	- 33 32 2.60
LONGITUDE DEG-MIN-SEC	- 92 28 12.60	- 92 28 11.90	- 92 28 11.90

% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	-
	3/8 IN.	- 95	- 100
	NO. 4	- 90	- 99
	NO. 10	- 85	- 95
	NO. 40	- 80	- 93
	NO. 80	- 66	- 84
	NO. 200	- 49	- 63

LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.3	- 13.5	- 14.0

ACHMSC	(IN)	-	- 3.5WX	-	- 7.0WX
AGG.BASE CRS.CL-5	(IN)	-	- 6.0	-	-
		-		-	
		-		-	
		-		-	
		-		-	
		-		-	
		-		-	

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

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 - 08/29/13 SEQUENCE NO. - 36
 JOB NUMBER - 070284 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
 SUPPLIER NAME - STATE DISTRICT NO. - 07
 NAME OF PROJECT - HWY.172- HAMPTON (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
 SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
 SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20133491	-	-
SAMPLE ID	-	S1579	-	-
TEST STATUS	-	INFORMATION ONLY	-	-
STATION	-	607+00	-	-
LOCATION	-	28'RT	-	-
DEPTH IN FEET	-	0-5	-	-
MAT'L COLOR	-	BROWN	-	-
MAT'L TYPE	-		-	-
LATITUDE DEG-MIN-SEC	-	33 32 10.70	-	-
LONGITUDE DEG-MIN-SEC	-	92 28 11.20	-	-
% PASSING	2	IN.	-	-
	1 1/2	IN.	-	100
	3/4	IN.	-	94
	3/8	IN.	-	87
	NO.	4	-	75
	NO.	10	-	64
	NO.	40	-	54
	NO.	80	-	29
	NO.	200	-	20
LIQUID LIMIT	-	ND	-	-
PLASTICITY INDEX	-	NP	-	-
AASHTO SOIL	-	A-2-4 (0)	-	-
UNIFIED SOIL	-		-	-
% MOISTURE CONTENT	-	7.6	-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-
	-		-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED

AASHTO TESTS : T24 T88 T89 T90 T265

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE - 08/27/13 SEQUENCE NO. - 1
JOB NUMBER - 070284 MATERIAL CODE - RV
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 07
SUPPLIER NAME - STATE DISTRICT NO. - 07
NAME OF PROJECT - HWY.172- HAMPTON (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CALHOUN COUNTY DATE SAMPLED - 06/25/13
SAMPLED BY - DICKERSON DATE RECEIVED - 07/09/13
SAMPLE FROM - TEST HOLE DATE TESTED - 08/20/13
MATERIAL DESC. - SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS

LAB NUMBER	20133492	20133493	20133494
SAMPLE ID	RV1580	RV1581	RV1582
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	319+00	431+00	567+00
LOCATION	30'LT	30'LT	35'RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	GR/BR	GR/BR	BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	33 27 18.00	33 29 8.40	33 31 22.90
LONGITUDE DEG-MIN-SEC	92 28 24.20	92 28 18.90	92 28 12.90
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	100	-
3/4 IN.	100	94	-
3/8 IN.	97	87	-
NO. 4	91	83	100
NO. 10	83	79	99
NO. 40	78	76	99
NO. 80	52	60	90
NO. 200	33	40	69
LIQUID LIMIT	ND	ND	ND
PLASTICITY INDEX	NP	NP	NP
AASHTO SOIL	A-2-4(0)	A-4(0)	A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
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	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED
- LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY.

AASHTO TESTS : T24 T88 T89 T90 T265