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.
TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 020586
Main Ditch Str. & Apprs. (S)
Route 144 Section 2
Chicot County

Transmitted herewith is the requested Soil Survey test results for the above referenced job. The project consists of replacing a bridge on Highway 144. Samples were obtained in the existing travel lanes and ditch line. There were no paved shoulders within the project.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of highly plastic clay. The subgrade soils are expected to provide a stable working platform with normal drying and compactive efforts, if the weather is favorable during construction. If soil remediation is needed to allow construction to proceed during adverse weather conditions or if a stable working platform cannot be obtained with normal drying and compactive effort, stabilization with lime is the most appropriate remediation technique. It is recommended that the addition of 3% lime (by dry weight) mixed to a depth of 16" be used for soil stabilization quantity estimation purposes; however, if the Engineer determines that stabilization is necessary, field trials or local experience may dictate that a stable working platform can be achieved at a lower lime content.

The currently available cross sections are acceptable as shown.

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 at the river port in Greenville, MS.

2. Asphalt Concrete Hot Mix

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<tr>
<th>Type</th>
<th>Asphalt Cement %</th>
<th>Mineral Aggregate %</th>
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<tr>
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<td>Base Course</td>
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<td>96.5</td>
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MCB:pt:bjj
Attachment
cc: State Constr. Eng. – Master File Copy
    District 2 Engineer
    System Information and Research Div.
    G. C. File

Michael C. Benson
Materials Engineer
**SOIL SURVEY STRENGTH TEST REPORT**

**DATE** - 03/09/2017
**JOB NUMBER** - 020586

**SEQUENCE NO.** - 1
**MATERIAL CODE** - SSRV
**SPEC. YEAR** - 2014
**SUPPLIER ID.** - 1
**COUNTY/STATE** - 09
**DISTRICT NO.** - 02

**JOB NAME** - MAIN DITCH STR. & APPRS. (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB LESS THAN 5

RESILIENT MODULUS
121+00 7174

**REMARKS** -

AASHTO TESTS: T190
AROKANS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No. 020586 Material Code SSRVPS
Date Sampled: 2/13/17 Station No.: 121+00
Date Tested: March 8, 2017 Location: 15LT
Name of Project: MAIN DITCH STR. & APPRS. (S)
County: Code: 9 Name: CHICOT
Sampled By: THORNTON/TAYLOR Depth: 0-5
Lab No.: 20170530 AASHTO Class: A-7-6(31)
Sample ID: RV129 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 3.98
       Average 3.98
   Membrane Thickness (in): 0.00
   Height of Specimen, Cap and Base (in): 8.01
   Height of Cap and Base (in): 0.00
   Initial Length, Lo (in): 8.01
   Initial Area, Ao (sq. in): 12.44
   Initial Volume, AoLo (cu. in): 99.65

3. Soil Specimen Weight:
   Weight of Wet Soil Used (g): 3034.50

4. Soil Properties:
   Optimum Moisture Content (%): 18.7
   Maximum Dry Density (pcf): 102.7
   95% of MDD (pcf): 97.6
   In-Situ Moisture Content (%): N/A

5. Specimen Properties:
   Wet Weight (g): 3034.50
   Compaction Moisture content (%): 19.7
   Compaction Wet Density (pcf): 116.02
   Compaction Dry Density (pcf): 96.93
   Moisture Content After Mr Test (%): 19.7

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

7. Resilient Modulus, Mr:
   11313(Sc)^-0.24496(S3)^0.12859

8. Comments

9. Tested By: GW Date: March 8, 2017
# ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
## MATERIALS DIVISION

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

- **Job No.:** 020586
- **Date Sampled:** 2/13/17
- **Date Tested:** March 8, 2017
- **Name of Project:** MAIN DITCH STR. & APPRS. (S)
- **County:** Code: 9 Name: CHICOT
- **Sampled By:** THORNTON/TAYLOR
- **Lab No.:** 20170530
- **Sample ID:** RV129
- **Material Type (1 or 2):** 2

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<th>Chamber Confining Pressure</th>
<th>Nominal Maximum Axial Stress</th>
<th>Actual Applied Max. Axial Load</th>
<th>Actual Applied Cyclic Load</th>
<th>Actual Applied Contact Load</th>
<th>Actual Applied Max. Axial Stress</th>
<th>Actual Applied Cyclic Stress</th>
<th>Actual Applied Contact Stress</th>
<th>Average Recov Def. LVDT 1 and 2</th>
<th>Resilient Strain</th>
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<td><strong>S cyclic</strong></td>
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**Tested By:** GW  
**Reviewed By:**  
**Date:** March 8, 2017
ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No. 020586  Material Code SSRVPS
Date Sampled: 2/13/17  Station No.: 121+00
Date Tested: March 8, 2017  Location: 15LT
Name of Project: MAIN DITCH STR. & APPRS. (S)
County: Code: 9  Name: CHICOT
Sampled By: THORNTON/TAYLOR
Lab No.: 20170530
Sample ID: RV129
LATITUDE: Depth: 0-5

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

$$K_1 = 11.313$$
$$K_2 = -0.24496$$
$$K_5 = 0.12859$$
$$R^2 = 0.88$$

Resilient Modulus QA Plot

Cyclic Stress, psi

Resilient Modulus, psi

- S3 = 6 psi
- S3 = 4 psi
- S3 = 2 psi
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<th>LOC. DEPTH</th>
<th>COLOR</th>
<th>#4</th>
<th>#10</th>
<th>#40</th>
<th>#80</th>
<th>#200</th>
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<th>P.I.</th>
<th>SOIL CLASS</th>
<th>LAB #</th>
<th>%MOISTURE</th>
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<td>15LT</td>
<td>0-5</td>
<td>GRAY</td>
<td>100</td>
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<td></td>
<td>47</td>
<td>34</td>
<td>A-7-8(31)</td>
<td>RV129</td>
<td></td>
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<tr>
<td>115+00</td>
<td>04RT</td>
<td>0-5</td>
<td>BROWN</td>
<td>97</td>
<td>96</td>
<td>55</td>
<td>94</td>
<td>31</td>
<td>07</td>
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<td>S125</td>
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<td>98</td>
<td>97</td>
<td>94</td>
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<td>S126</td>
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Comments: W=MULTIPLE LAYERS, X=STRIPPED
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<td>SA ASPHALT</td>
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<td>SA ASPHALT</td>
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**Comments:**

W = MULTIPLE LAYERS, X = STRIPPED
### Soil Survey / Pavement Sounding Test Report

**Date:** 03/03/17  
**Sequence No.:** 1  
**Job Number:** 020586  
**Material Code:** SSRVPS  
**Federal Aid No.:** To Be Assigned  
**Spec. Year:** 2014  
**Purpose:** Soil Survey Sample  
**Spec. Remarks:** No Specification Check  
**Supplier Name:** State  
**County/State:** 09  
**Name of Project:** Main Ditch Str. & Apprs. (S)  
**District No.:** 02  
**Project Engineer:** Not Applicable  
**Location:** Chicot County  
**Sampled By:** Thornton/Taylor  
**Sample From:** Test Hole  
**Date Sampled:** 02/13/17  
**Date Received:** 02/14/17  
**Date Tested:** 03/03/17

### Material Description - Soil Survey - R Value - Pavement Soundings

| Lab Number | Sample ID | Test Status | Station | Location | Depth in Feet | Mat'l Color | Mat'l Type | Latitude Deg-Min-Sec | Longitude Deg-Min-Sec | % Passing 2 IN. | % Passing 1 1/2 IN. | % Passing 3/4 IN. | % Passing 3/8 IN. | No. 4 | No. 10 | No. 40 | No. 80 | No. 200 | Liquid Limit | Plasticity Index | AASHTO Soil | Unified Soil | % Moisture Content | ACHMSC (IN) | SA Asphalt (IN) |
|------------|-----------|-------------|---------|----------|---------------|-------------|------------|---------------------|---------------------|----------------|-------------------|----------------|---------------|-------|-------|-------|-------|-------|-------------|---------------|-------------|------------|-------------|----------------|-----------|----------------|
| 20170526   | S125      | Information Only | 115+00  | 04RT    | 0-5           | Brown       | Gray       | 33 23 16.90          | 91 22 19.20          | -              | -                  | -               | 100            | 97    | 96    | 95    | 94    | 85    | 31          | 07             | A-4(6)       | A-6(21)     | 23.9         | 5.0W        | 1.0              |
| 20170527   | S126      | Information Only | 115+00  | 24RT    | 0-5           | Brown       | Gray       | 33 23 16.70          | 91 22 19.20          | -              | -                  | -               | 100            | 98    | 98    | 97    | 94    | 85    | 40          | 25             | A-6(21)      | A-6(21)     | 30.1         | -            | -                |
| 20170528   | S127      | Information Only | 121+00  | 04LT    | 0-5           | Gray        | -          | 33 23 16.90          | 91 22 12.10          | -              | -                  | -               | -              | -     | -     | -     | -     | -     | 37          | 37             | -            | -           | -             | 5.0WX       | -                |

**Remarks:** W=Multiple Layers, X=Stripped

AASHTO Tests: T24 T88 T89 T90 T265
**SOIL SURVEY / PAVEMENT SOUNCING TEST REPORT**

**DATE** - 03/03/17  
**SEQUENCE NO.** - 2  
**JOB NUMBER** - 020586  
**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** - 09  
**SUPPLIER NAME** - STATE  
**DISTRICT NO.** - 02  
**NAME OF PROJECT** - MAIN DITCH STR. & APPRS. (S)  
**PROJECT ENGINEER** - NOT APPLICABLE  
**PIT/QUARRY** - ARKANSAS  
**LOCATION** - CHICOT COUNTY  
**DATE SAMPLED** - 02/13/17  
**SAMPLED BY** - THORNTON/TAYLOR  
**DATE RECEIVED** - 02/14/17  
**SAMPLE FROM** - TEST HOLE  
**DATE TESTED** - 03/03/17  
**MATERIAL DESC.** - SOIL SURVEY - R VALUE - PAVEMENT SOUNDINGS  

| LAB NUMBER | 20170529  |
| SAMPLE ID  | S128     |
| TEST STATUS| INFORMATION ONLY |
| STATION  | 121+00 |
| LOCATION  | 15LT |
| DEPTH IN FEET | 0-5 |
| MAT'L COLOR | GRAY |
| MAT'L TYPE | - |
| LATITUDE Deg-Min-SEC | 33 23 17.00 |
| LONGITUDE Deg-Min-SEC | 91 22 12.10 |

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<td>1 1/2 IN. -</td>
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<td>3/4 IN. -</td>
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<td>3/8 IN. - 100</td>
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<td>NO. 4 - 99</td>
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<td>NO. 10 - 98</td>
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| LIQUID LIMIT | 41 |
| PLASTICITY INDEX | 27 |
| AASHTO SOIL | A-7-6(23) |
| UNIFIED SOIL | |

| % MOISTURE CONTENT | 23.2 |

**REMARKS** - W=MULTIPLE LAYERS, X=STRIPPED  
**AASHTO TESTS** : T24 T88 T89 T90 T265
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</tr>
<tr>
<td><strong>LOCATION</strong></td>
<td>CHICOT COUNTY</td>
<td><strong>SAMPLE FROM</strong></td>
<td>TEST HOLE</td>
</tr>
<tr>
<td><strong>SAMPLED BY</strong></td>
<td>THORNTON/TAYLOR</td>
<td><strong>MATERIAL DESC.</strong></td>
<td>SOIL SURVEY - RESISTANCE R-VALUE ACTUAL RESULTS</td>
</tr>
</tbody>
</table>

**LAB NUMBER** | 20170530 |
**SAMPLE ID** | RV129 |
**TEST STATUS** | INFORMATION ONLY |
**STATION** | 121+00 |
**LOCATION** | 151T |
**DEPTH IN FEET** | 0-5 |
**MAT'L COLOR** | GRAY |
**MAT'L TYPE** | |
**LATITUDE DEG-MIN-SEC** | 33 23 17.00 |
**LONGITUDE DEG-MIN-SEC** | 91 22 12.20 |
**% PASSING** | |
2 IN. | |
1 1/2 IN. | |
3/4 IN. | |
3/8 IN. | |
NO. 4 | 100 |
NO. 10 | |
NO. 40 | |
NO. 80 | |
NO. 200 | 90 |
**LIQUID LIMIT** | 47 |
**PLASTICITY INDEX** | 34 |
**AASHTO SOIL** | A-7-6(31) |
**UNIFIED SOIL** | |
**% MOISTURE CONTENT** | |
| | |
**REMARKS** | W-MULTIPLE LAYERS, X-STRIPPED |
**AASHTO TESTS** : T24 T88 T89 T90 T265