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. 090342
Mill Creek Str. & Apprs. (S)
Route 14 Section 3
Marion County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of replacing the existing bridge crossing Mill Creek on Highway 14 on new location. Samples were obtained in the travel lanes, ditch line and along the new alignment. Locations were measured from centerline of construction and should be noted as such on the logs.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of sandy clay with varying amounts of dolomite fragments. Isolated locations of highly plastic clay were encountered within the project limits. Subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. Rock was encountered at stations 901+00 23 feet left of centerline at a depth of 2.5 feet, and at 913+00 10 feet right of centerline at a depth of 3.2 feet.

Cut slope recommendations will be made after the subsurface investigation has been completed.

Between stations 917+00 to 918+00 is a proposed embankment of approximately 35 feet in height. Based on current cross-sections the toe of the slope will encroach into Mill Creek. It is recommended that the embankment be constructed using material meeting the Rock Fill Special Provision dated 2/27/2014. These slopes can be constructed utilizing a 1.5:1 slope configuration. The remaining embankments may be constructed with locally available unspecified material using a 3:1 slope configuration.

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 Mountain Home.

2. Asphalt Concrete Hot Mix

<table>
<thead>
<tr>
<th>Type</th>
<th>Asphalt Cement %</th>
<th>Mineral Aggregate %</th>
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<tbody>
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<td>Surface Course</td>
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<td>Base Course</td>
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Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment
cc: State Constr. Eng. – Master File Copy
    District 9 Engineer
    Transportation Planning and Policy Div.
    G. C. File
DATE - 03/13/2014
JOB NUMBER - 090342

JOE NAME - MILL CREEK STR. & APPRS. (S)

BEGIN JOB - END JOB 8

REMARKS -

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

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

<table>
<thead>
<tr>
<th>Job No.</th>
<th>090342</th>
<th>Material Code</th>
<th>SSRVPS</th>
</tr>
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<tbody>
<tr>
<td>Date Sampled:</td>
<td>3/11/14</td>
<td>Station No.</td>
<td>913+00</td>
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<tr>
<td>Date Tested:</td>
<td>March 11, 2014</td>
<td>Location:</td>
<td>10'RT</td>
</tr>
<tr>
<td>Name of Project:</td>
<td>MILL CREEK STR. &amp; APPRS.(S)</td>
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<tr>
<td>County:</td>
<td>FAULKNER</td>
<td></td>
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<tr>
<td>Sampled By:</td>
<td>Code: 45  Name: MARION</td>
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<td>Lab No.:</td>
<td>20140595</td>
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<td>Sample ID:</td>
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<td></td>
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</tr>
<tr>
<td>LATITUDE:</td>
<td></td>
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1. Testing Information:
   - Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)  N
   - Testing - Permanent Strain > 5% (Y=Yes or N=No)            N
   - Number of Load Sequences Completed (0-15)                  15

2. Specimen Information:
   - Specimen Diameter (in):
     - Top                                               3.97
     - Middle                                             3.97
     - Bottom                                             3.98
     - Average                                            3.97
   - Membrane Thickness (in):                            0.01
   - Height of Specimen, Cap and Base (in):              8.03
   - Height of Cap and Base (in):                        0.00
   - Initial Length, Lo (in):                            8.03
   - Initial Area, Ao (sq. in):                          12.33
   - Initial Volume, AoLo (cu. in):                      99.02

3. Soil Specimen Weight:
   - Weight of Wet Soil Used (g):                        3244.80

4. Soil Properties:
   - Optimum Moisture Content (%):                       13.8
   - Maximum Dry Density (pcf):                          111.2
   - 95% of MDD (pcf):                                   105.6
   - In-Situ Moisture Content (%):                       N/A

5. Specimen Properties:
   - Wet Weight (g):                                     3244.80
   - Compaction Moisture content (%):                   13.8
   - Compaction Wet Density (pcf):                       124.86
   - Compaction Dry Density (pcf):                      109.72
   - Moisture Content After Mr Test (%):                13.5

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

7. Resilient Modulus, Mr:                             

8. Comments

9. Tested By: DEB                                      Date: March 11, 2014
## ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
### MATERIALS DIVISION

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

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<td>Location:</td>
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<td>Depth:</td>
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<td>AASHTO Class:</td>
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<td>Material Type (1 or 2):</td>
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**TESTED BY** DEB  **DATE** March 11, 2014

**REVIEWED BY**  **DATE**
ARAKANS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION

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

Job No.: 090342
Date Sampled: 3/11/14
Date Tested: March 11, 2014
Name of Project: MILL CREEK STR. & APPRS.(S)
County: Faulkner
Sampled By: FAULKNER
Lab No.: 20140595
Sample ID: RV204
Material Code: SSRVPS
Station No.: 913+00
Location: 10' RT

Depth: 0-5
AASHTO Class: A-6(7)
Material Type (1 or 2): 2

\[ M_R = K_1 (S_0)^{K_2} (S_3)^{K_5} \]

\[ \begin{align*}
K_1 &= 10,315 \\
K_2 &= 0.20870 \\
K_5 &= 0.36523 \\
R^2 &= 0.96
\end{align*} \]

Resilient Modulus QA Plot

\( S_3 = 6 \text{ psi} \)
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<th>LOC</th>
<th>DEPTH</th>
<th>COLOR</th>
<th>#4</th>
<th>#10</th>
<th>#40</th>
<th>#80</th>
<th>#200</th>
<th>L.L.</th>
<th>P.I.</th>
<th>SOIL CLASS</th>
<th>LAB #</th>
<th>%MOISTURE</th>
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<td>14</td>
<td>A-7(7)</td>
<td>RV204</td>
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<td>0-5</td>
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<td>15</td>
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**Comments:** LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY
Z=AUGER REFUSAL, W=MULTIPLE LAYERS

Thursday, March 13, 2014
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**Comments:** LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY
Z=AUGER REFUSAL, W=MULTIPLE LAYERS
**ARICKANS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS**
**MATERIALS DIVISION**

**MICHAEL BENSON, MATERIALS ENGINEER**

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

**DATE** - 03/13/14  
**JOE NUMBER** - 090342  
**FEDERAL AID NO.** - TO BE ASSIGNED  
**PURPOSE** - SOIL SURVEY SAMPLE  
**SPEC. REMARKS** - NO SPECIFICATION CHECK  
**SUPPLIER NAME** - STATE  
**NAME OF PROJECT** - MILL CREEK STR. & APPRS. (S)  
**PROJECT ENGINEER** - NOT APPLICABLE  
**PIT/QUARRY** - ARKANSAS  
**LOCATION** - MARION COUNTY  
**SAMPLE BY** - PAULKNER/BOUGHNER  
**SAMPLE FROM** - TEST HOLE  
**DATE SAMPLED** - 02/20/14  
**DATE RECEIVED** - 02/21/14  
**DATE TESTED** - 03/10/14

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

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<tr>
<th>LAB NUMBER</th>
<th>SAMPLE ID</th>
<th>TEST STATUS</th>
<th>STATION</th>
<th>LOCATION</th>
<th>DEPTH IN FEET</th>
<th>MAT'L COLOR</th>
<th>MAT'L TYPE</th>
<th>LATITUDE DEG-MIN-SEC</th>
<th>LONGITUDE DEG-MIN-SEC</th>
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**% PASSING**

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- 1 1/2 IN. - 98
- 3/4 IN. - 83
- 3/8 IN. - 71
- NO. 4 - 61
- NO. 10 - 51
- NO. 20 - 45

**LIQUID LIMIT**

- 29

**PLASTICITY INDEX**

- 15

**AASHTO SOIL**

- A-6(3)

**UNIFIED SOIL**

- A-7-6(25)

**% MOISTURE CONTENT**

- 20.5

**ACHMSc**

(IN) - 8.5W

**AGG.BASE CRS.CL-7**

(IN) - 6

**REMARKS** - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY
- Z=AUGER REFUSAL, W=MULTIPLE LAYERS

**AASHTO TESTS** : T24 T88 T69 T90 T265
ARIZONA STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 03/10/14  
SEQUENCE NO. - 2
JOB NUMBER - 090342  
MATERIAL CODE - SSRVPS
FEDERAL AID NO.- TO BE ASSIGNED  
SPEC. YEAR - 2003
PURPOSE - SOIL SURVBY SAMPLE  
SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK  
COUNTY/STATE - 45
SUPPLIER NAME - STATE  
DISTRICT NO. - 09
NAME OF PROJECT - MILL CREEK STR. & APPRS. (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MARION COUNTY  
DATE SAMPLED - 02/20/14
SAMPLED BY - PAULKNER/BOUGHNER  
DATE RECEIVED - 02/21/14
SAMPLE FROM - TEST HOLE  
DATE TESTED - 03/10/14

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

<table>
<thead>
<tr>
<th>LAB NUMBER</th>
<th>SAMPLE ID</th>
<th>TEST STATUS</th>
<th>STATION</th>
<th>LOCATION</th>
<th>DEPTH IN FEET</th>
<th>MAT'L COLOR</th>
<th>MAT'L TYPE</th>
<th>LATITUDE DEG-MIN-SEC</th>
<th>LONGITUDE DEG-MIN-SEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>20140593</td>
<td>S202</td>
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<td>913+00</td>
<td>10rt</td>
<td>0-5</td>
<td>BROWN</td>
<td></td>
<td>36 11 35.50</td>
<td>92 40 43.90</td>
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<td>BROWN</td>
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<td>36 11 37.30</td>
<td>92 40 39.60</td>
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</tbody>
</table>

% PASSING

IN.  
1 1/2 IN.  
3/4 IN.  
3/8 IN.  
NO. 4  
NO. 10  
NO. 40  
NO. 80  
NO. 200  

LIQUID LIMIT - 23  
PLASTICITY INDEX - 10  
AASHTO SOIL - A-4(4)  
UNIFIED SOIL -  
% MOISTURE CONTENT - 20.7  

ACHMSE (IN) -  
AGG. BASE CRS.CL-7 (IN) -  

AASHO TESTS: T24 T88 T89 T90 T265

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY
- Z=AUGER REFUSAL, W=MULTIPLE LAYERS
-
DATE - 03/10/14
JOB NUMBER - 090342
FEDERAL AID NO. - TO BE ASSIGNED
PURPOSE - SOIL SURVEY SAMPLE
SPEC. REMARKS - NO SPECIFICATION CHECK
SUPPLIER NAME - STATE
NAME OF PROJECT - MILL CREEK STR. & APPRS. (S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - MARION COUNTY
SAMPLED BY - PAULKNER/BOUGHNER
SAMPLE FROM - TEST HOLE
DATE SAMPLED - 02/20/14
DATE RECEIVED - 02/21/14
DATE TESTED - 03/10/14

LAB NUMBER - 20140595
SAMPLE ID - RV204
TEST STATUS - INFORMATION ONLY
STATION - 913+00
LOCATION - 10r
DEPTH IN FEET - 0-3.2z
MAT'L COLOR - BROWN
MAT'L TYPE
LATITUDE DEG-MIN-SEC - 36 11 35.50
LONGITUDE DEG-MIN-SEC - 92 40 43.90

% PASSING
2 IN. -
1 1/2 IN. -
3/4 IN. - 100
3/8 IN. - 97
NO. 4 - 95
NO. 10 - 93
NO. 40 - 88
NO. 80 - 74
NO. 200 - 69
LIQUID LIMIT - 29
PLASTICITY INDEX - 14
AASHTO SOIL - A-6(7)
UNIFIED SOIL
% MOISTURE CONTENT

REMARKS - LOCATIONS MEASURED FROM CENTERLINE OF EXISTING ROADWAY
- Z=AUGER REFUSAL, W=MULTIPLE LAYERS
AASHTO TESTS: T24 T88 T89 T90 T265