

ARKANSAS DEPARTMENT OF TRANSPORTATION



**SUBSURFACE INVESTIGATION**

STATE JOB NO. 110799

FEDERAL AID PROJECT NO. NHPP-55-1(145)

LAKE DAVID - MISSISSIPPI CO. LINE (S)

STATE HIGHWAY I-55 SECTION 11

IN CRITTENDEN COUNTY

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



ARKANSAS DEPARTMENT OF TRANSPORTATION

ArDOT.gov | IDriveArkansas.com | Lorie H. Tudor, P.E., Director

MATERIALS DIVISION

11301 West Baseline Road | P.O. Box 2261 | Little Rock, AR 72203-2261 | Phone: 501.569.2185 | Fax: 501.569.2368

November 5, 2020

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

**SUBJECT:** Job No. 110799  
Lake David – Mississippi Co. Line (S)  
Route 55 Section 11  
Crittenden County

Attached is the requested pavement sounding data for the above referenced job. Eight cores were taken in the outside travel lanes of Interstate 55. Included with the data are photos of the pavement cores.

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

Asphalt Concrete Hot Mix

<u>Type</u>	<u>Asphalt Cement %</u>	<u>Mineral Aggregate %</u>
Surface Course	5.2	94.8
Binder Course	4.2	95.8
Base Course	4.0	96.0

  
Jonathan A. Annable  
Materials Engineer

JAA:yz:bjj  
Attachment

cc: State Constr. Eng. – Master File Copy  
District 1 Engineer  
System Information and Research Div.  
G. C. File

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

JONATHAN A. ANNABLE, MATERIALS ENGINEER

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

DATE	- 11/02/20	SEQUENCE NO.	- 1
JOB NUMBER	- 110799	MATERIAL CODE	- PSO
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 18
SUPPLIER NAME	- STATE	DISTRICT NO.	- 01
NAME OF PROJECT	- LAKE DAVID - MISSISSIPPI CO. LINE (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CRITTENDEN, COUNTY	DATE SAMPLED	- 10/27/20
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 11/02/20
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/02/20
MATERIAL DESC.	- PAVEMENT SOUNDINGS ONLY		

LAB NUMBER	- 20202172	- 20202173	- 20202174
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 23.91	- 24.67	- 24.84
LOCATION	- 06RT NB	- 06LT SB	- 06RT NB
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 23 44.80	- 35 24 5.30	- 35 24 24.40
LONGITUDE DEG-MIN-SEC	- 90 15 57.30	- 90 15 21.90	- 90 14 40.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 -	-	-
	NO. 10 -	-	-
	NO. 40 -	-	-
	NO. 80 -	-	-
	NO. 200 -	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
ACHMSC	(IN) - 4.0	- 4.0	- 4.0
ACHMBC	(IN) - 4.0W	- 10.5W	- 9.0W
SAND ASPHALT	(IN) - 4.0	- ---	- ---
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
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REMARKS - W=MULTIPLE LAYERS  
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AASHTO TESTS : T24 T88 T89 T90 T265  
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
MATERIALS DIVISION

JONATHAN A. ANNABLE, MATERIALS ENGINEER

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

DATE	- 11/02/20	SEQUENCE NO.	- 2
JOB NUMBER	- 110799	MATERIAL CODE	- PSO
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 18
SUPPLIER NAME	- STATE	DISTRICT NO.	- 01
NAME OF PROJECT	- LAKE DAVID - MISSISSIPPI CO. LINE (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CRITTENDEN, COUNTY	DATE SAMPLED	- 10/27/20
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 11/02/20
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/02/20
MATERIAL DESC.	- PAVEMENT SOUNDINGS ONLY		

LAB NUMBER	- 20202175	- 20202176	- 20202177
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 25.72	- 26.64	- 26.76
LOCATION	- 06LT SB	- 06LT SB	- 06RT NB
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 24 35.80	- 35 25 17.90	- 35 25 23.50
LONGITUDE DEG-MIN-SEC	- 90 14 26.60	- 90 13 59.60	- 90 13 55.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 -	-	-
	NO. 10 -	-	-
	NO. 40 -	-	-
	NO. 80 -	-	-
	NO. 200 -	-	-

LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-

ACHMSC	(IN) -	3.5	-	3.5	-	4.0
ACHMBC	(IN) -	9.0W	-	14.5W	-	9.25W
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

REMARKS - W=MULTIPLE LAYERS  
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AASHTO TESTS : T24 T88 T89 T90 T265  
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ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS  
 MATERIALS DIVISION

JONATHAN A. ANNABLE, MATERIALS ENGINEER

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

DATE	- 11/02/20	SEQUENCE NO.	- 3
JOB NUMBER	- 110799	MATERIAL CODE	- PSO
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2014
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 18
SUPPLIER NAME	- STATE	DISTRICT NO.	- 01
NAME OF PROJECT	- LAKE DAVID - MISSISSIPPI CO. LINE (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CRITTENDEN, COUNTY	DATE SAMPLED	- 10/27/20
SAMPLED BY	- THORNTON/BATES	DATE RECEIVED	- 11/02/20
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/02/20
MATERIAL DESC.	- PAVEMENT SOUNDINGS ONLY		

LAB NUMBER	- 20202178	- 20202179	-
SAMPLE ID	-	-	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- 27.41	- 27.47	-
LOCATION	- 06RT NB	- 06LT SB	-
DEPTH IN FEET	-	-	-
MAT'L COLOR	-	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 25 53.80	- 35 25 56.90	-
LONGITUDE DEG-MIN-SEC	- 90 13 37.20	- 90 13 36.80	-
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. -	-	-
	NO. 4 -	-	-
	NO. 10 -	-	-
	NO. 40 -	-	-
	NO. 80 -	-	-
	NO. 200 -	-	-
LIQUID LIMIT	-	-	-
PLASTICITY INDEX	-	-	-
AASHTO SOIL	-	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
ACHMSC	(IN) - 4.5	- 4.5	-
ACHMBC	(IN) - 8.5W	- 9.0W	-
	-	-	-
	-	-	-
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	-	-	-
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REMARKS - W=MULTIPLE LAYERS  
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