

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. 080616

FEDERAL AID PROJECT NO. BFP-0058(51)

HWY. 124 STRS. & APPRS. (POPE CO.) (S)

STATE HIGHWAY 124 SECTION 2

IN POPE 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

AR DOT.gov | IDriveArkansas.com | Scott E. Bennett, 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 26, 2019

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 080616
Poll Creek Str. & Apprs. (S)
Route 124 Section 8
Pope County

Attached is the requested soil survey, strength data, and Resilient Modulus test results for the above referenced job. The project consists of replacing the bridge crossing Poll Creek on Highway 124. Samples were taken in the existing travel lanes, and ditch line. There are no paved shoulders within the project limits.

The subgrade soils consist primarily of low to moderately plastic clayey sand with varying amounts of shale. The subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction.

Earthwork recommendations will be made upon request when plans are further developed and cross sections are available.

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 in the vicinity of Russellville.

- 2. Asphalt Concrete Hot Mix

Table with 3 columns: Type, Asphalt Cement %, Mineral Aggregate %. Rows include Surface Course, Binder Course, and Base Course.

Handwritten signature of Michael C. Benson, Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. - Master File Copy
District 8 Engineer
System Information and Research Div.
G. C. File

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

DATE - 11/26/2019
JOB NUMBER - 080616

SEQUENCE NO. - 1
MATERIAL CODE - SSRV
SPEC. YEAR - 2014
SUPPLIER ID. - 1
COUNTY/STATE - 58
DISTRICT NO. - 08

JOB NAME - POLL CREEK STR. & APPRS. (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 11

RESILIENT MODULUS
LM 5.73 8033

REMARKS -
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AASHTO TESTS : T190

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 11/21/19	SEQUENCE NO.	- 2
JOB NUMBER	- 080616	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	- 58
SUPPLIER NAME	- STATE	DISTRICT NO.	- 08
NAME OF PROJECT - POLL CREEK STR. & APPRS. (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- POPE, COUNTY	DATE SAMPLED	- 07/23/19
SAMPLED BY	- FRAZIER/DICKERSON	DATE RECEIVED	- 07/25/19
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 11/19/19
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20192333	- 20192334	-
SAMPLE ID	- S767	- RV768	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- LM 5.73	- LM 5.73	-
LOCATION	- 15 LT	- 15 LT	-
DEPTH IN FEET	- 0-5	- 0-5	-
MAT'L COLOR	- BROWN	- BROWN	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 25 15.50	- 35 25 15.50	-
LONGITUDE DEG-MIN-SEC	- 92 52 22.20	- 92 52 22.20	-
% PASSING			
	2 IN. -	-	-
	1 1/2 IN. - 100	- 100	-
	3/4 IN. - 93	- 86	-
	3/8 IN. - 90	- 78	-
	NO. 4 - 88	- 67	-
	NO. 10 - 86	- 60	-
	NO. 40 - 83	- 53	-
	NO. 80 - 77	- 45	-
	NO. 200 - 61	- 33	-
LIQUID LIMIT	- 22	- ND	-
PLASTICITY INDEX	- 4	- NP	-
AASHTO SOIL	- A-4 (0)	- A-2-4 (0)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.6	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
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	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS
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AASHTO TESTS : T24 T88 T89 T90 T265
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