

ARKANSAS DEPARTMENT OF TRANSPORTATION



SUBSURFACE INVESTIGATION

STATE JOB NO. _____ **A80011** _____

FEDERAL AID PROJECT NO. _____ **ACNHPP-0058(58)** _____

_____ **PINEY CREEK BRANCH STR. & APPRS. (S)** _____

STATE HIGHWAY _____ **333** _____ **SECTION** _____ **1** _____

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

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

March 31, 2020

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 080613
Piney Creek Branch Str. & Apprs. (S)
Route 333 Section 1
Pope County

Attached is the requested soil survey test results for the above referenced job. The project consists of replacing the Piney Creek Branch bridge with a box culvert on new location on Highway 333. Samples were taken in the existing travel lanes and ditch line. There were no paved shoulders within the project limits.

The subgrade soils consist primarily of low plasticity clayey sands 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. Rock was encountered at station 116+00 6 and 24 feet left of centerline at depths of 2.0 and 2.5 feet respectively.

Currently available cross sections are acceptable as shown. The embankment may be constructed with locally available unspecified material.

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 Lamar.

- 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

JOB: 080613

Arkansas State Highway Transportation Department

JOB NAME: PINEY CREEK BRANCH STR. & APPRS. (S)

Materials Division

COUNTY NO. 58 DATE TESTED 3/9/2020

Michael Benson, Materials Engineer

STA.#	LOC.	DEPTH	COLOR						L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				#4	#10	#40	#80	#200					
				S	I	E	V	E	S				
102+00	06 RT	0-5	BROWN	97	91	85	80	57	27	10	A-4(3)	S90	15.7
102+00	24 RT	0-5	BROWN	96	89	82	77	57	25	9	A-4(2)	S91	12.8
116+00	06 LT	0-2Z	BROWN	95	89	82	79	60	26	8	A-4(2)	S92	11.7
116+00	24 LT	0-2.5Z	BROWN	93	86	79	77	60	28	10	A-4(4)	S93	10.4

comments: Z=AUGER REFUSAL

Monday, March 30, 2020

JOB: 080613

Arkansas State Highway Transportation Department

DATE TESTED

JOB NAME: PINEY CREEK BRANCH STR. & APPRS. (S)

Materials Division

3/9/2020

COUNTY NO. 58

Michael Benson, Materials Engineer

STA.# LOC.

PAVEMENT SOUNDINGS

102+00	06 RT	CHIP SEAL 1.25	ACHM BC ---	AGG. BASE CRS. CL-7 8.0
102+00	24 RT	CHIP SEAL ---	ACHM BC ---	AGG. BASE CRS. CL-7 ---
116+00	06 LT	CHIP SEAL 1.0	ACHM BC 4.0	AGG. BASE CRS. CL-7 5.0
116+00	24 LT	CHIP SEAL ---	ACHM BC ---	AGG. BASE CRS. CL-7 ---

comments: Z=AUGER REFUSAL

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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 03/09/20	SEQUENCE NO.	- 1
JOB NUMBER	- 080613	MATERIAL CODE	- SSPS
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	- PINEY CREEK BRANCH STR. & APPRS. (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- POPE, COUNTY		
SAMPLED BY	- THORNTON/MCKINNEY		
SAMPLE FROM	- TEST HOLE		
MATERIAL DESC.	- SOIL SURVEY PAVEMENT SOUNDINGS		
LAB NUMBER	- 20200438	- 20200439	- 20200440
SAMPLE ID	- S90	- S91	- S92
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 102+00	- 102+00	- 116+00
LOCATION	- 06 RT	- 24 RT	- 06 LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-2Z
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 24 51.70	- 35 24 51.60	- 35 24 50.50
LONGITUDE DEG-MIN-SEC	- 93 13 23.00	- 93 13 22.90	- 93 13 6.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	100
	3/8 IN. - 100	99	98
	NO. 4 - 97	96	95
	NO. 10 - 91	89	89
	NO. 40 - 85	82	82
	NO. 80 - 80	77	79
	NO. 200 - 57	57	60
LIQUID LIMIT	- 27	- 25	- 26
PLASTICITY INDEX	- 10	- 9	- 8
AASHTO SOIL	- A-4 (3)	- A-4 (2)	- A-4 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.7	- 12.8	- 11.7
CHIP SEAL (IN)	- 1.25	- ---	- 1.0
ACHM BC (IN)	- ---	- ---	- 4.0
AGG. BASE CRS. CL-7 (IN)	- 8.0	- ---	- 5.0
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - Z=AUGER REFUSAL

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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

MICHAEL BENSON, MATERIALS ENGINEER

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

DATE	- 03/09/20	SEQUENCE NO.	- 2
JOB NUMBER	- 080613	MATERIAL CODE	- SSPS
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	- PINEY CREEK BRANCH STR. & APPRS. (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- POPE, COUNTY	DATE SAMPLED	- 02/13/20
SAMPLED BY	- THORNTON/MCKINNEY	DATE RECEIVED	- 02/13/20
SAMPLE FROM	- TEST HOLE	DATE TESTED	- 03/09/20
MATERIAL DESC.	- SOIL SURVEY PAVEMENT SOUNDINGS		

LAB NUMBER	- 20200441	-	-
SAMPLE ID	- S93	-	-
TEST STATUS	- INFORMATION ONLY	-	-
STATION	- 116+00	-	-
LOCATION	- 24 LT	-	-
DEPTH IN FEET	- 0-2.5Z	-	-
MAT'L COLOR	- BROWN	-	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 24 50.70	-	-
LONGITUDE DEG-MIN-SEC	- 93 13 6.30	-	-
% PASSING	2 IN.	-	-
	1 1/2 IN.	-	-
	3/4 IN.	- 100	-
	3/8 IN.	- 98	-
	NO. 4	- 93	-
	NO. 10	- 86	-
	NO. 40	- 79	-
	NO. 80	- 77	-
	NO. 200	- 60	-
LIQUID LIMIT	- 28	-	-
PLASTICITY INDEX	- 10	-	-
AASHTO SOIL	- A-4 (4)	-	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 10.4	-	-
CHIP SEAL	(IN) - ---	-	-
ACHM BC	(IN) - ---	-	-
AGG. BASE CRS. CL-7	(IN) - ---	-	-
	-	-	-
	-	-	-
	-	-	-
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	-	-	-
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REMARKS - Z=AUGER REFUSAL
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AASHTO TESTS : T24 T88 T89 T90 T265
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