

REFERENCE: SF-930026

PROJECT: 44614

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**STATE OF NORTH CAROLINA**  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GEOTECHNICAL ENGINEERING UNIT

**STRUCTURE**  
**SUBSURFACE INVESTIGATION**

COUNTY WASHINGTON  
 PROJECT DESCRIPTION BRIDGE NO. 26 ON -L- (SR 1155) OVER SCUPPERNONG RIVER

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SF-930026	1	6

**CAUTION NOTICE**

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
  - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

D.N. ARGENBRIGHT  
J.K. CRENSHAW  
R.E. SMITH  
J.M. EDMONDSON

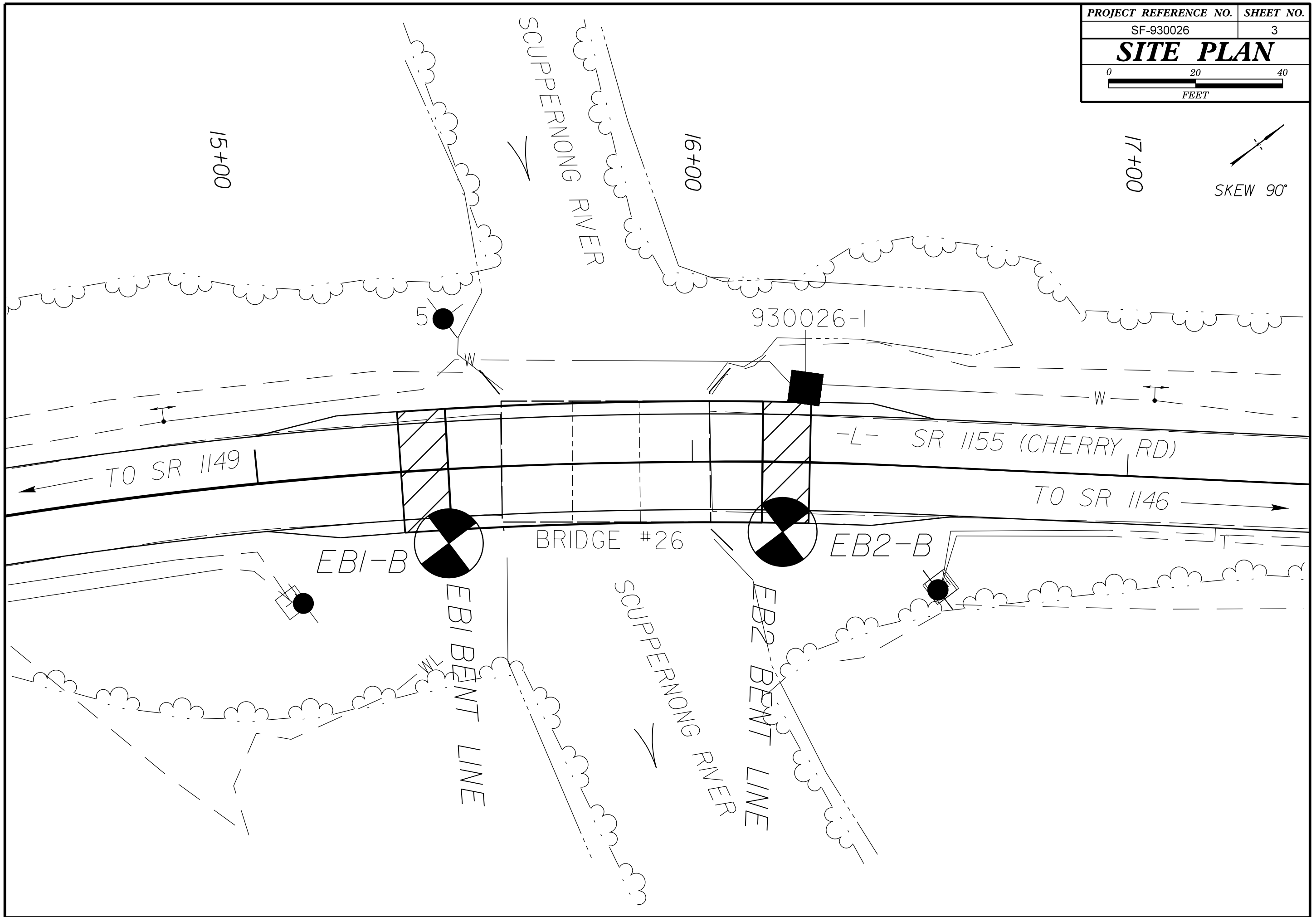
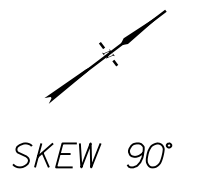
INVESTIGATED BY T.C. BOTTOMS  
 DRAWN BY T.C. BOTTOMS  
 CHECKED BY D.N. ARGENBRIGHT  
 SUBMITTED BY D.N. ARGENBRIGHT  
 DATE MARCH 2017



DocuSigned by:  
Tyler Bottoms 3/14/2017  
 48A2D3B800A70E DATE

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



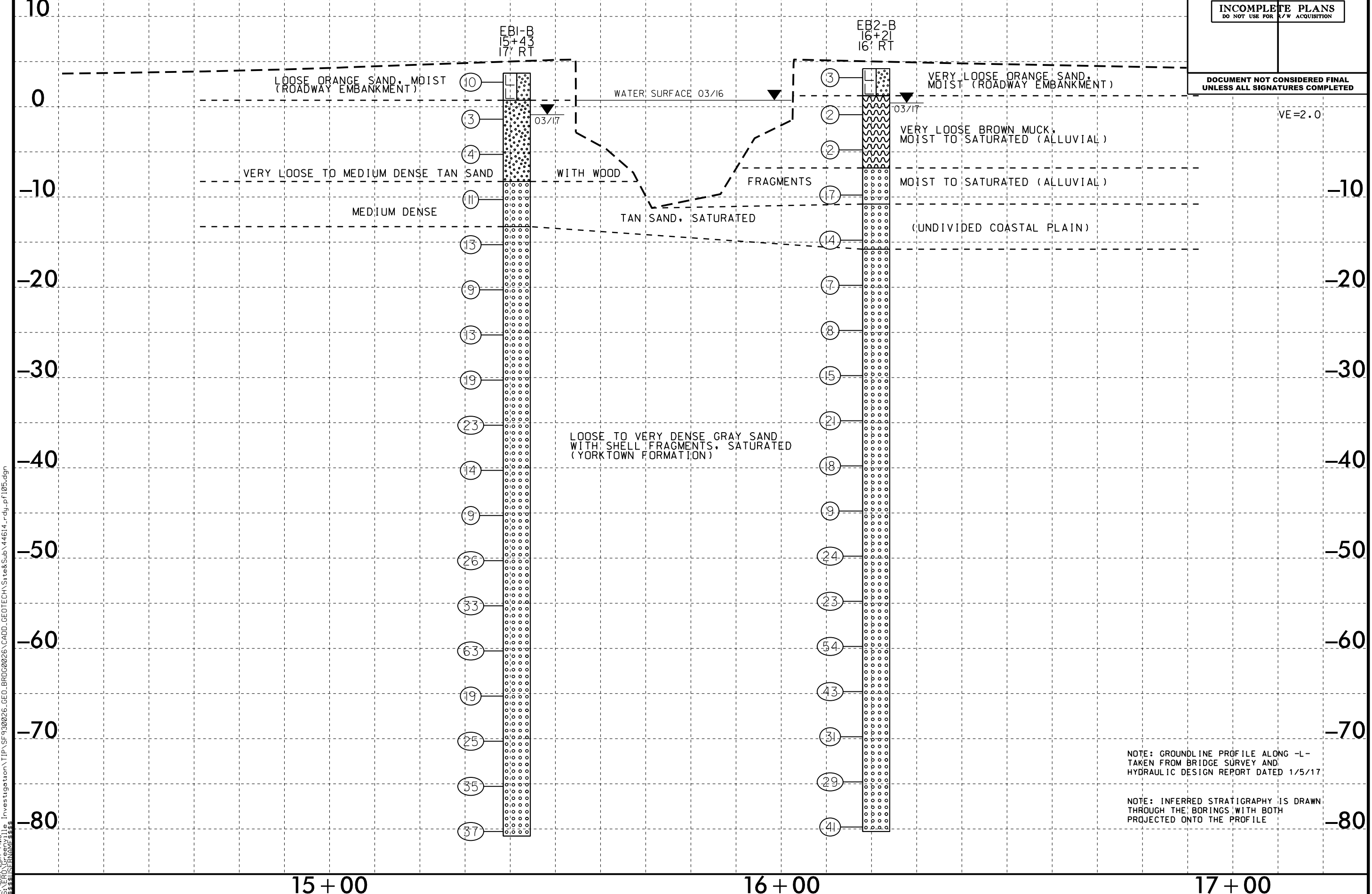


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PROJECT REFERENCE NO. <b>SF-930026</b>	SHEET NO. <b>4 OF 6</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	

# PROFILE THROUGH BORINGS PROJECTED ALONG -L-

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



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# GEOTECHNICAL BORING REPORT BORE LOG

<b>WBS</b> 44614	<b>TIP</b> SF-930026	<b>COUNTY</b> WASHINGTON	<b>GEOLOGIST</b> Crenshaw, J. K.
<b>SITE DESCRIPTION</b> BRIDGE NO. 26 ON -L- (SR 1155) OVER SCUPPERNONG RIVER			<b>GROUND WTR (ft)</b>
<b>BORING NO.</b> EB2-B	<b>STATION</b> 16+21	<b>OFFSET</b> 16 ft RT	<b>ALIGNMENT</b> -L-
<b>COLLAR ELEV.</b> 4.2 ft	<b>TOTAL DEPTH</b> 84.5 ft	<b>NORTHING</b> 775,454	<b>EASTING</b> 2,764,374
<b>DRILL RIG/HAMMER EFF./DATE</b> GFO0075 CME-45C 83% 04/11/2016		<b>DRILL METHOD</b> Mud Rotary	<b>HAMMER TYPE</b> Automatic
<b>DRILLER</b> Smith, R. E.	<b>START DATE</b> 03/02/17	<b>COMP. DATE</b> 03/02/17	<b>SURFACE WATER DEPTH</b> N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
5	4.2	0.0											GROUND SURFACE	0.0
			WOH	1	2								ROADWAY EMBANKMENT ORANGE SAND, MOIST	1.2
0	0.1	4.1	2	1	1								ALLUVIAL BROWN MUCK WITH WOOD FRAGMENTS, MOIST TO SATURATED	3.0
-5	-3.8	8.0	1	1	1									
-10	-8.8	13.0	3	7	10								ALLUVIAL TAN SAND WITH WOOD FRAGMENTS, SATURATED	11.0
-15	-13.8	18.0	6	5	9								UNDIVIDED COASTAL PLAIN TAN SAND, SATURATED	15.0
-20	-18.8	23.0	3	4	3								COASTAL PLAIN GRAY SAND WITH SHELL FRAGMENTS, SATURATED (YORKTOWN FORMATION)	20.0
-25	-23.8	28.0	6	4	4									
-30	-28.8	33.0	8	7	8									
-35	-33.8	38.0	10	9	12									
-40	-38.8	43.0	4	9	9									
-45	-43.8	48.0	4	4	5									
-50	-48.8	53.0	8	12	12									
-55	-53.8	58.0	5	9	14									
-60	-58.8	63.0	17	25	29									
-65	-63.8	68.0	7	17	26									
-70	-68.8	73.0	9	14	17									
-75	-73.8	78.0	11	11	18									

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ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
-75													Match Line	
-80	-78.8	83.0	13	17	24								COASTAL PLAIN GRAY SAND WITH SHELL FRAGMENTS, SATURATED (YORKTOWN FORMATION) (continued)	84.5
													Boring Terminated at Elevation -80.3 ft in Dense Sand	

NCDOT BORE DOUBLE\_SF930026\_GEO\_BRDG.GPJ\_NC\_DOT.GDT\_3/14/17