

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

STRUCTURE  
 SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 17BP.2.R.39 (SF-060013) F.A. PROJ. \_\_\_\_\_  
 COUNTY BEAUFORT  
 PROJECT DESCRIPTION BRIDGE NO. 13 ON SR 1100 (CORE POINT ROAD) OVER NEVIL CREEK AT -L- STA. 14+00

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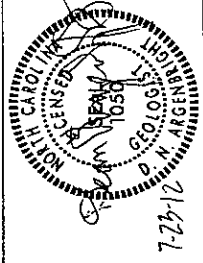
SHEET	DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	SITE PLAN
4	PROFILE
5-6	BORE LOGS

**CAUTION NOTICE**  
 THE SUBSURFACE INVESTIGATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE BY THE GEOTECHNICAL ENGINEERING UNIT OF THE DIVISION OF HIGHWAYS, DEPARTMENT OF TRANSPORTATION, STATE OF NORTH CAROLINA. THE INVESTIGATION WAS CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SUBSURFACE INVESTIGATION ACT, WHICH IS PART OF THE NORTH CAROLINA STATUTES, AND THE FIELD BOOKS, LOGS, AND OTHER RECORDS OF THE INVESTIGATION. THE INVESTIGATION WAS CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SUBSURFACE INVESTIGATION ACT, WHICH IS PART OF THE NORTH CAROLINA STATUTES, AND THE FIELD BOOKS, LOGS, AND OTHER RECORDS OF THE INVESTIGATION. THE INVESTIGATION WAS CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SUBSURFACE INVESTIGATION ACT, WHICH IS PART OF THE NORTH CAROLINA STATUTES, AND THE FIELD BOOKS, LOGS, AND OTHER RECORDS OF THE INVESTIGATION.

THE SCOPE OF THE INVESTIGATION IS LIMITED TO THE SUBSURFACE INVESTIGATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED. THE INVESTIGATION WAS CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SUBSURFACE INVESTIGATION ACT, WHICH IS PART OF THE NORTH CAROLINA STATUTES, AND THE FIELD BOOKS, LOGS, AND OTHER RECORDS OF THE INVESTIGATION. THE INVESTIGATION WAS CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SUBSURFACE INVESTIGATION ACT, WHICH IS PART OF THE NORTH CAROLINA STATUTES, AND THE FIELD BOOKS, LOGS, AND OTHER RECORDS OF THE INVESTIGATION.

PERSONNEL  
 C.M. WILKIE  
 SOME PERSONNEL

INVESTIGATED BY D.N. ARGENBRIGHT  
 CHECKED BY D.N. ARGENBRIGHT  
 SUBMITTED BY D.N. ARGENBRIGHT  
 DATE JULY 2002

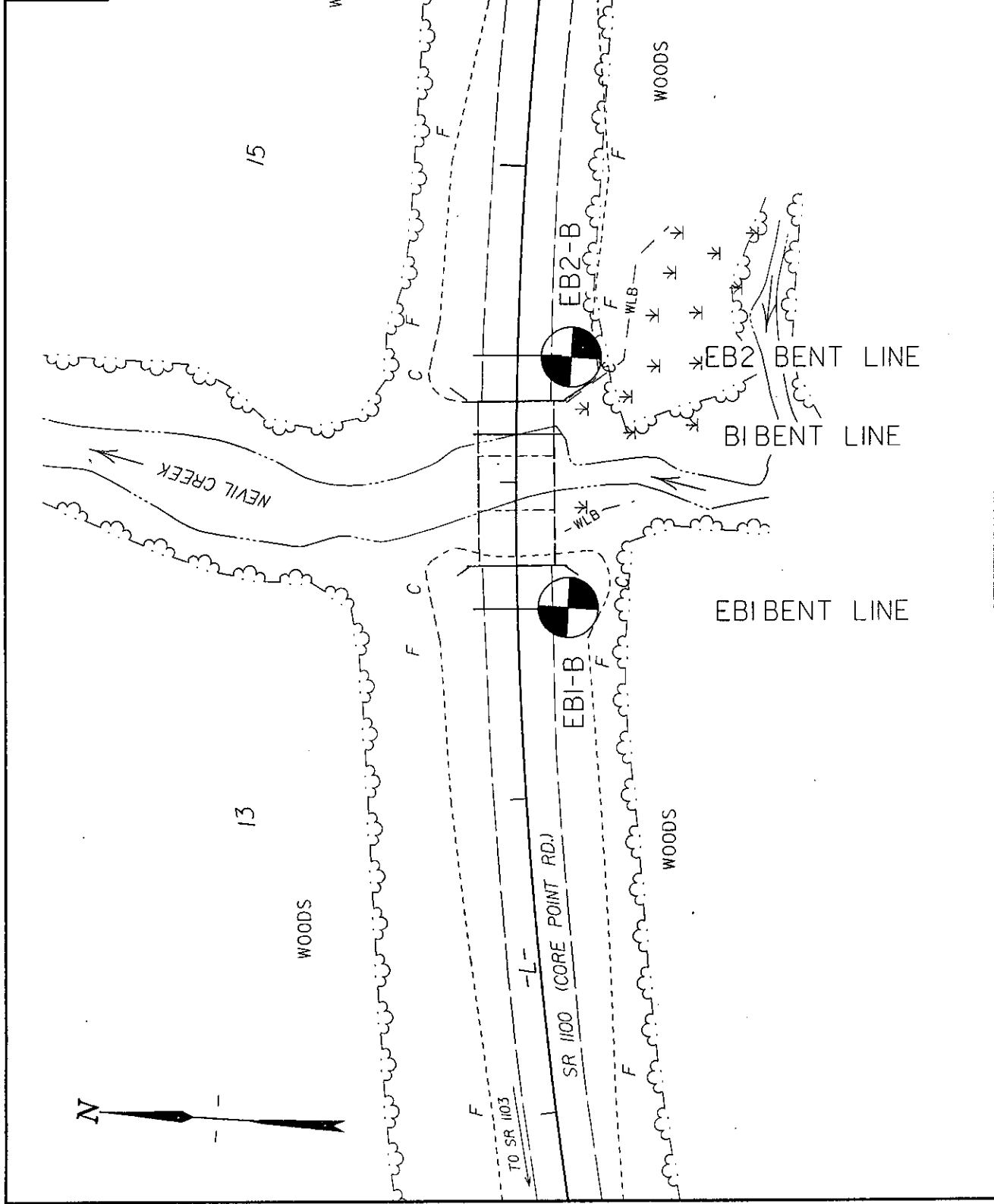


NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR UNPAID COMPENSATION OR EXTENSION OF TIME BASED ON DEFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

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DRAWN BY: C.P. TURNER







**NCDOT GEOTECHNICAL ENGINEERING UNIT**  
**BORELOG REPORT**

WBS 178P.2.R.39	TIP SF-060013	COUNTY BEAUFORT	GEOLOGIST White, C. M.
SITE DESCRIPTION BRIDGE NO. 13 ON SR 1100 OVER NEVIL CREEK		OFFSET 16 R RT	ALIGNMENT -L-
BORING NO. EB1-B	STATION 13+60	NORTHING 609.112	EASTING 2,622,248
COLLAR ELEV. 9.0 R	TOTAL DEPTH 100.0 R	DRILL METHOD Mod Rotary	HAMMER TYPE Automatic
DRILLER Consultant Driller		START DATE 06/22/12	COMP. DATE 06/22/12
SURFACE WATER DEPTH N/A		SOIL AND ROCK DESCRIPTION	
DRIVE ELEV (ft)	BLOW COUNT	BLOWS PER FOOT	SOIL AND ROCK DESCRIPTION
0 -70	4 9 12	0 25 50 75 100	COASTAL PLAIN GRAY SANDY LIMESTONE (CASTLE HAYNE FORMATION)
0 -75	9 10 12		
0 -80	14 10 23		
0 -85	15 19 29		
0 -90	20 23 28		
SAMP. NO. / MOI G 100 / G			
Boring Terminating at Elevation 91.0 ft in sandy limestone			

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SURFACE WATER DEPTH N/A		SOIL AND ROCK DESCRIPTION	
DRIVE ELEV (ft)	BLOW COUNT	BLOWS PER FOOT	SOIL AND ROCK DESCRIPTION
0 -10	11 4 4	0 25 50 75 100	GROUND SURFACE ROADWAY EMBANKMENT TAN SILTY SAND, MOIST
0 -5	2 1 2		ALLUVIAL TAN GRAY SILT WITH WOOD, MOIST TO WET
0 -0.5	4 5 5		ALLUVIAL TAN GRAY SAND, SAT.
0 -5	8 8 9		
0 -10	3 3 6		
0 -15	2 3 2		
0 -20	5 5 4		
0 -25	2 3 4		
0 -30	11 17 18		
0 -35	2 3 5		
0 -40	5 9 10		
0 -45	9 13 11		
0 -50	4 10 10		
0 -55	3 2 4		
0 -60	2 4 4		
0 -65	3 4 5		
0 -70			
SAMP. NO. / MOI G 100 / G			
Boring Terminating at Elevation 91.0 ft in sandy limestone			

NCDOT BORE DOUBLE 178P.2.R.39.GPJ NC DOT.GOT 7/20/12

**NCDOT GEOTECHNICAL ENGINEERING UNIT**  
**BORELOG REPORT**

WBS 17BP.2.R.39	TIP SF-060013	COUNTY BEAUFORT	GEOLOGIST Argenbright, D. N.
SITE DESCRIPTION BRIDGE NO. 13 ON SR 1100 OVER NEVIL CREEK		COUNTY BEAUFORT	
BORING NO. EB2-B	STATION 14+40	OFFSET 17 ft RT	ALIGNMENT -L-
COLLAR ELEV. 9.9 ft	TOTAL DEPTH 109.9 ft	NORTHING 609,116	EASTING 2,622,327
DRILL RIG/HAMMER EFF./DATE N/A	DRILL METHOD Mud Rotary	START DATE 06/21/12	COMP. DATE 06/21/12
DRILLER Consultant Driller	BLOW COUNT	BLOWS PER FOOT	SOIL AND ROCK DESCRIPTION
DRIVE ELEV (ft)	0.5ft 0.5ft 0.5ft	0 25 50 75 100	
DEPTH (ft)	0 8 11 20 22 28 30 41 50 60 65 70		
			Match Line
			COASTAL PLAIN GRAY SANDY LIMESTONE (CASTLEHAYNE FORMATION)(continued)
			Boring Terminates at Elevation -100.0 ft in sandy limestone

WBS 17BP.2.R.39	TIP SF-060013	COUNTY BEAUFORT	GEOLOGIST Argenbright, D. N.
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DRILLER Consultant Driller	BLOW COUNT	BLOWS PER FOOT	SOIL AND ROCK DESCRIPTION
DRIVE ELEV (ft)	0.5ft 0.5ft 0.5ft	0 25 50 75 100	
DEPTH (ft)	0 1 2 3 3.7 8.4 11 13 14 15 18.4 20 22 24 25 28.4 30 33.4 35 38.4 40 43.4 45 48.4 50 53.4 55 58.4 60 63.4 65 68.4 70 73.4 75 78.4		
			GROUND SURFACE ROADWAY EMBANKMENT TAN SILTY SAND, MOIST
			BROWN MEDIUM SILTY ORGANIC SAND WITH WOOD, MOIST TO SAT.
			ALLUVIAL GRAY BROWN SAND, SAT.
			ALLUVIAL BLACK PEAT, WET
			ALLUVIAL GRAY SAND, SAT.
			COASTAL PLAIN GRAY SAND WITH SHELL FRAGMENTS, SAT. (YORKTOWN FORMATION)
			COASTAL PLAIN GRAY SILT, WET (PUNGCO RIVER FORMATION)
			COASTAL PLAIN GRAY GREEN CLAYEY SAND, SAT. (PUNGCO RIVER FORMATION)
			COASTAL PLAIN GRAY GREEN SILTY CLAY, WET (PUNGCO RIVER FORMATION)
			COASTAL PLAIN GRAY SAND, SAT. (PUNGCO RIVER FORMATION)