

PROJECT: BP2.R028

REFERENCE: N/A

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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3	SITE PLAN
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY BEAUFORT
PROJECT DESCRIPTION BRIDGE NO. 57 ON -L- (SR 1932)
OVER DURHAM CREEK AT STA. 15 + 78

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP2.R028	1	7

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 PERFORM INDEPENDENT SUBSURFACE INVESTIGATIONS AND MAKE INTERPRETATIONS AS NECESSARY TO CONFIRM CONDITIONS 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

S.N. ZIMARINO

T.W. MILLER

C.M. WALKER

J.M. EDMONDSON

INVESTIGATED BY T.C. BOTTOMS

DRAWN BY T.W. MILLER

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE NOVEMBER 2024



DocuSigned by:

Tyler Bottoms

06/06/2025

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DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

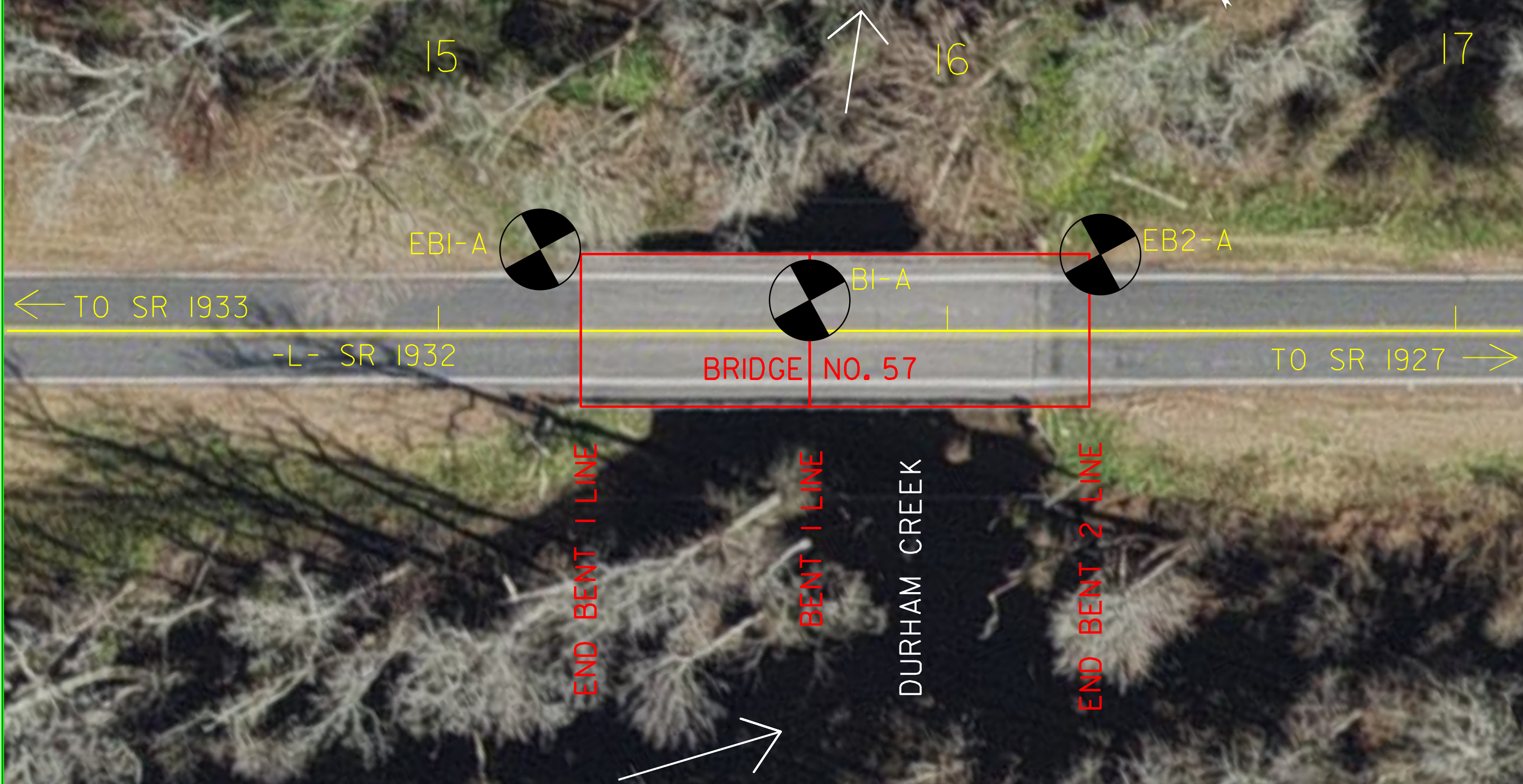
SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

[illegible]

PROJECT REFERENCE NO.	SHEET NO.
BP2.R028	3
SITE PLAN	
02040 FEET	

SKEW: 90°



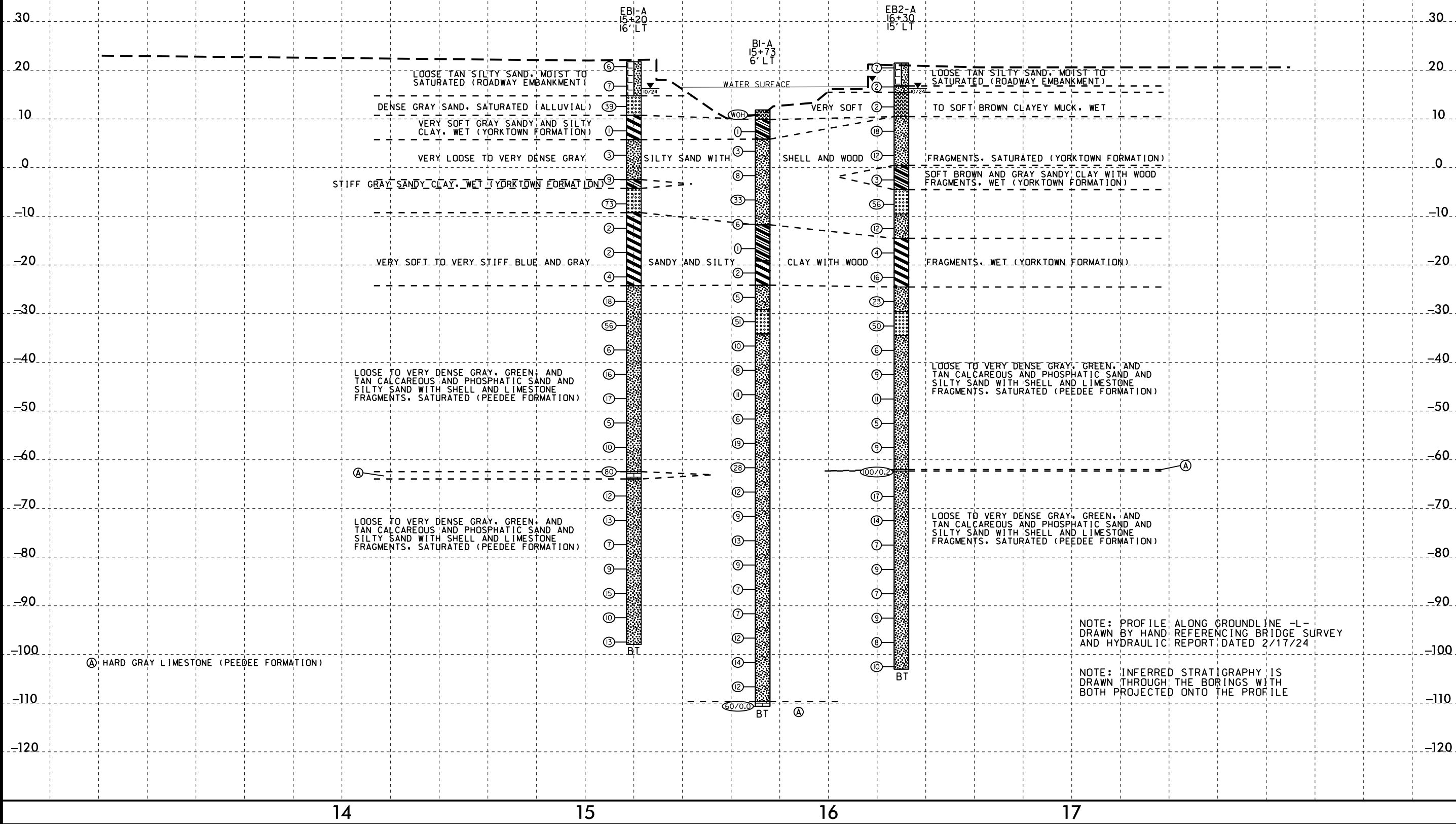
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PROFILE THROUGH BORINGS PROJECTED ALONG -L-

PROJECT REFERENCE NO. BP2.R028		SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

V.E. = 2



NOTE: PROFILE ALONG GROUNDLINE -L-
DRAWN BY HAND, REFERENCING BRIDGE SURVEY
AND HYDRAULIC REPORT DATED 2/17/24

NOTE: INFERRED STRATIGRAPHY IS
DRAWN THROUGH THE BORINGS WITH
BOTH PROJECTED ONTO THE PROFILE

NCDOT BORE DOUBLE BP2.R028_GEO_BRDG.GPJ NC_DOT.GDT 11/4/24

WBS BP2.R028				TIP N/A		COUNTY BEAUFORT			GEOLOGIST Zimarino, S. N.						
SITE DESCRIPTION Bridge No. 57 on -L- (SR 1932) over Durham Creek								GROUND WTR (ft)							
BORING NO. EB1-A			STATION 15+20			OFFSET 16 ft LT			ALIGNMENT -L-		0 HR. N/A				
COLLAR ELEV. 21.8 ft			TOTAL DEPTH 119.7 ft			NORTHING 560,893			EASTING 2,635,131		24 HR. 5.5				
DRILL RIG/HAMMER EFF./DATE GFC0075 CME-45C 90% 11/21/2022						DRILL METHOD Mud Rotary			HAMMER TYPE Automatic						
DRILLER Walker, C. M.			START DATE 10/23/24			COMP. DATE 10/23/24			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100	MOI				
-55						Match Line									
	-56.5	78.2	4	4	6	GRAY, GREEN, AND TAN CALCAREOUS SILTY SAND WITH WOOD AND SHELL FRAGMENTS, SATURATED (PEEDEE FORMATION) (<i>continued</i>)									
-60	-61.5	83.2	8	7	73								-62.5	84.2	
-65	-66.5	88.2	3	5	7								-64.0	85.7	
-70	-71.5	93.2	5	6	7										
-75	-76.5	98.2	2	3	4										
-80	-81.5	103.2	3	4	5										
-85	-86.5	108.2	4	6	9										
-90	-91.5	113.2	2	4	6										
-95	-96.5	118.2	3	5	8								-98.0	119.7	
														Boring Terminated at Elevation -98.0 ft in Medium Dense Silty Sand	

GEOTECHNICAL BORING REPORT
BORE LOG

WBS			BP2.R028			TIP			N/A			COUNTY			BEAUFORT			GEOLOGIST			Zimarino, S. N.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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COLLAR ELEV.					11.9 ft					TOTAL DEPTH					122.5 ft					NORTHING					560,859					EASTING					2,635,173					24 HR.		N/A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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DRILLER					Edmondson, J. M.					START DATE					10/28/24					COMP. DATE					10/28/24					SURFACE WATER DEPTH										4.7ft																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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COLLAR ELEV. 11.9 ft		TOTAL DEPTH 122.5 ft		NORTHING 560,859		EASTING 2,635,173		24 HR.	N/A					
DRILL RIG/HAMMER EFF./DATE GFC0075 CME-45C 90% 11/21/2022				DRILL METHOD Mud Rotary			HAMMER TYPE Automatic							
DRILLER Edmondson, J. M.		START DATE 10/28/24		COMP. DATE 10/28/24		SURFACE WATER DEPTH 4.7ft								
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
-65	-65.6	77.5	4	5	7	Match Line								GRAY AND GREEN SAND AND SILTY SAND WITH LIMESTONE FRAGMENTS, SATURATED (PEEDEE FORMATION) (continued)
-70	-70.6	82.5	3	3	6	12								
-75	-75.6	87.5	2	7	6	9								
-80	-80.6	92.5	3	4	5	13								
-85	-85.6	97.5	2	3	4	9								
-90	-90.6	102.5	3	3	4	7								
-95	-95.6	107.5	3	4	8	7								
-100	-100.6	112.5	5	7	7	12								
-105	-105.6	117.5	3	5	7	14								
-110	-110.6	122.5				12								
			60/0.0			60/0.0								

NCDOT BORE DOUBLE BP2.R028_GEO_BRDG.GPJ NC_DOT.GDT 11/4/24

NCDOT BORE DOUBLE BP2.R028 GEO BRDG.GPJ NC DOT.GDT 11/4/24[illegible]