

REFERENCE: BR-0073

PROJECT: 67073

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY COLUMBUS
PROJECT DESCRIPTION BRIDGE NO. 5 ON -L- (US 76)
OVER GAPWAY SWAMP AT STA. 18+24.5

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN
4	PROFILE
5-8	BORE LOGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0073	1	8

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:
1. 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.
 2. 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

R.E. SMITH

D.G. PINTER

C.M. WALKER

T.W. MILLER

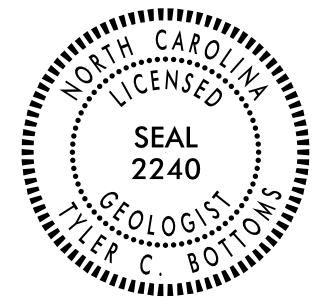
INVESTIGATED BY T.C. BOTTOMS

DRAWN BY T.C. BOTTOMS

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE APRIL 2022



DocuSigned by:
Tyler C. Bottoms 09/27/2022

48A2D3BD08CF448 SIGNATURE 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

Table with 4 main columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, and TERMS AND DEFINITIONS. It contains detailed technical specifications, classification charts, and symbols for soil and rock analysis.

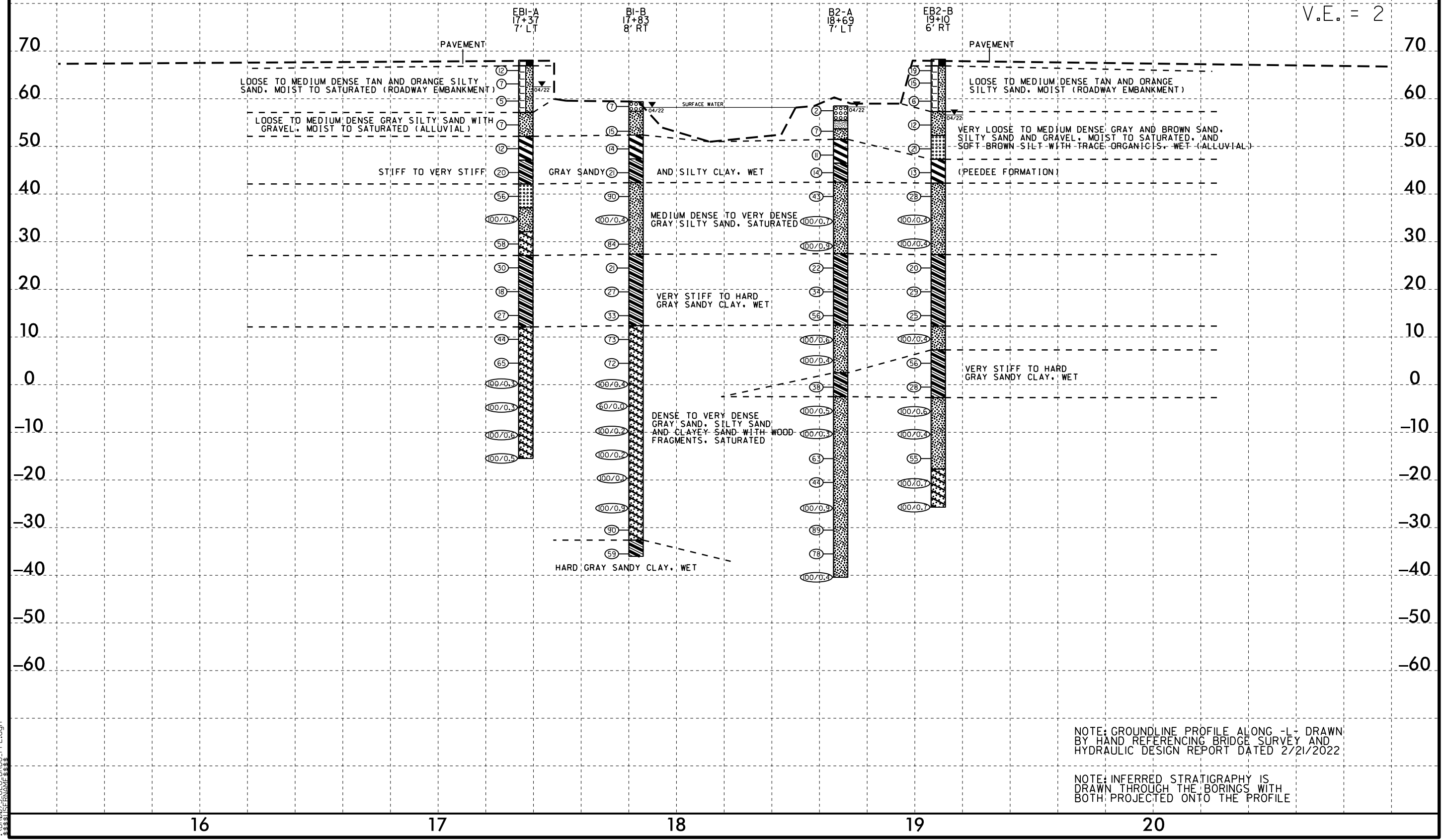
PROJECT REFERENCE NO.	SHEET NO.
BR-0073	3
SITE PLAN	
 0 20 40 FEET	

SKEW: 65°



PROFILE THROUGH BORINGS PROJECTED ALONG -L-

V.E. = 2



NOTE: GROUNDLINE PROFILE ALONG -L- DRAWN BY HAND REFERENCING BRIDGE SURVEY AND HYDRAULIC DESIGN REPORT DATED 2/21/2022

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

5/14/99

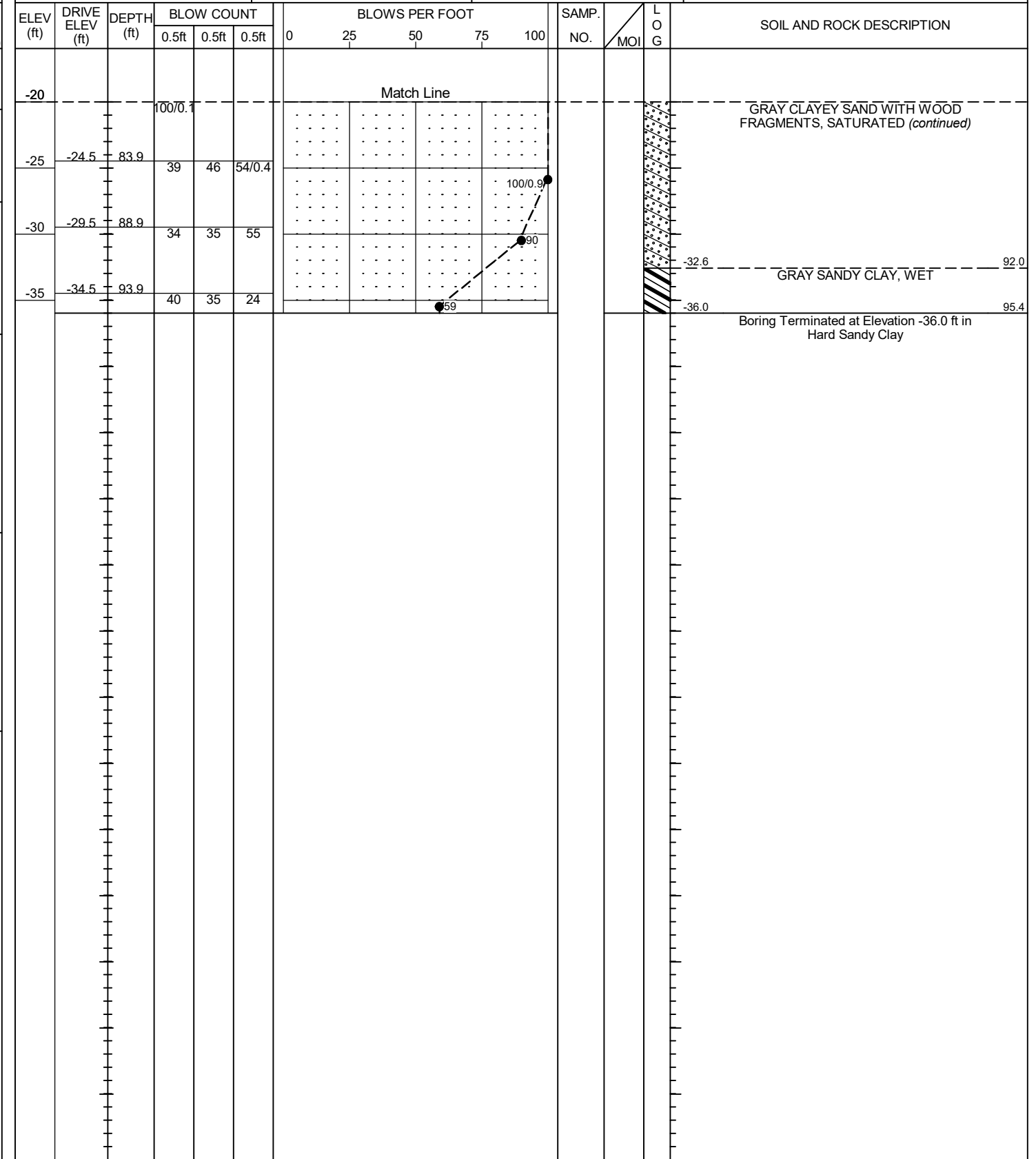
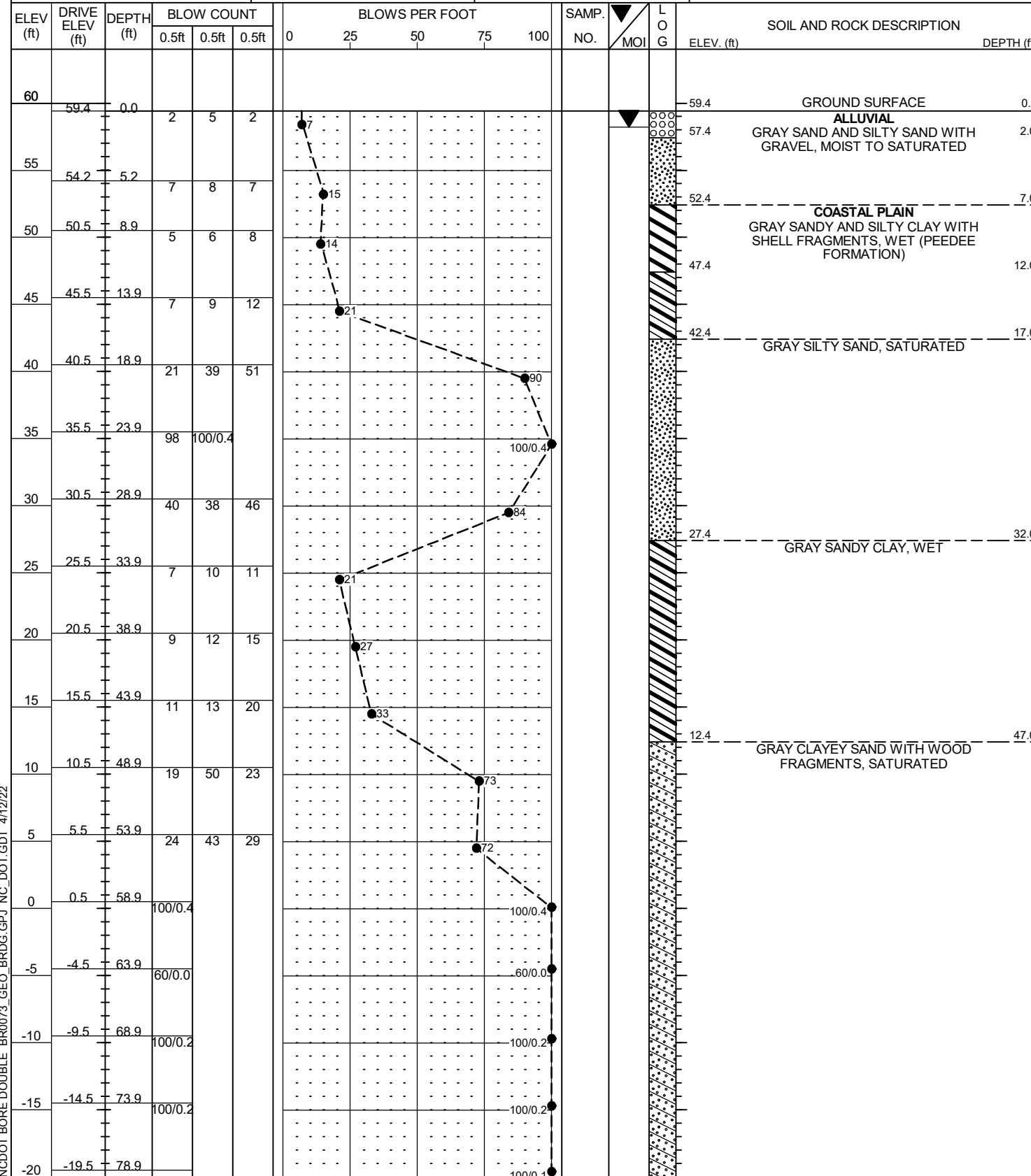
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GEOTECHNICAL BORING REPORT

BORE LOG

WBS 67073.1.1		TIP BR-0073		COUNTY COLUMBUS		GEOLOGIST Miller, T. W.	
SITE DESCRIPTION BRIDGE NO. 5 ON -L- (US 76) OVER GAPWAY SWAMP							GROUND WTR (ft)
BORING NO. B1-B		STATION 17+83		OFFSET 8 ft RT		ALIGNMENT -L-	
COLLAR ELEV. 59.4 ft		TOTAL DEPTH 95.4 ft		NORTHING 191,323		EASTING 1,987,437	
DRILL RIGHAMMER EFF./DATE GFC0075 CME-45C 87% 11/23/2021			DRILL METHOD Mud Rotary			HAMMER TYPE Automatic	
DRILLER Walker, C. M.		START DATE 04/06/22		COMP. DATE 04/06/22		SURFACE WATER DEPTH N/A	

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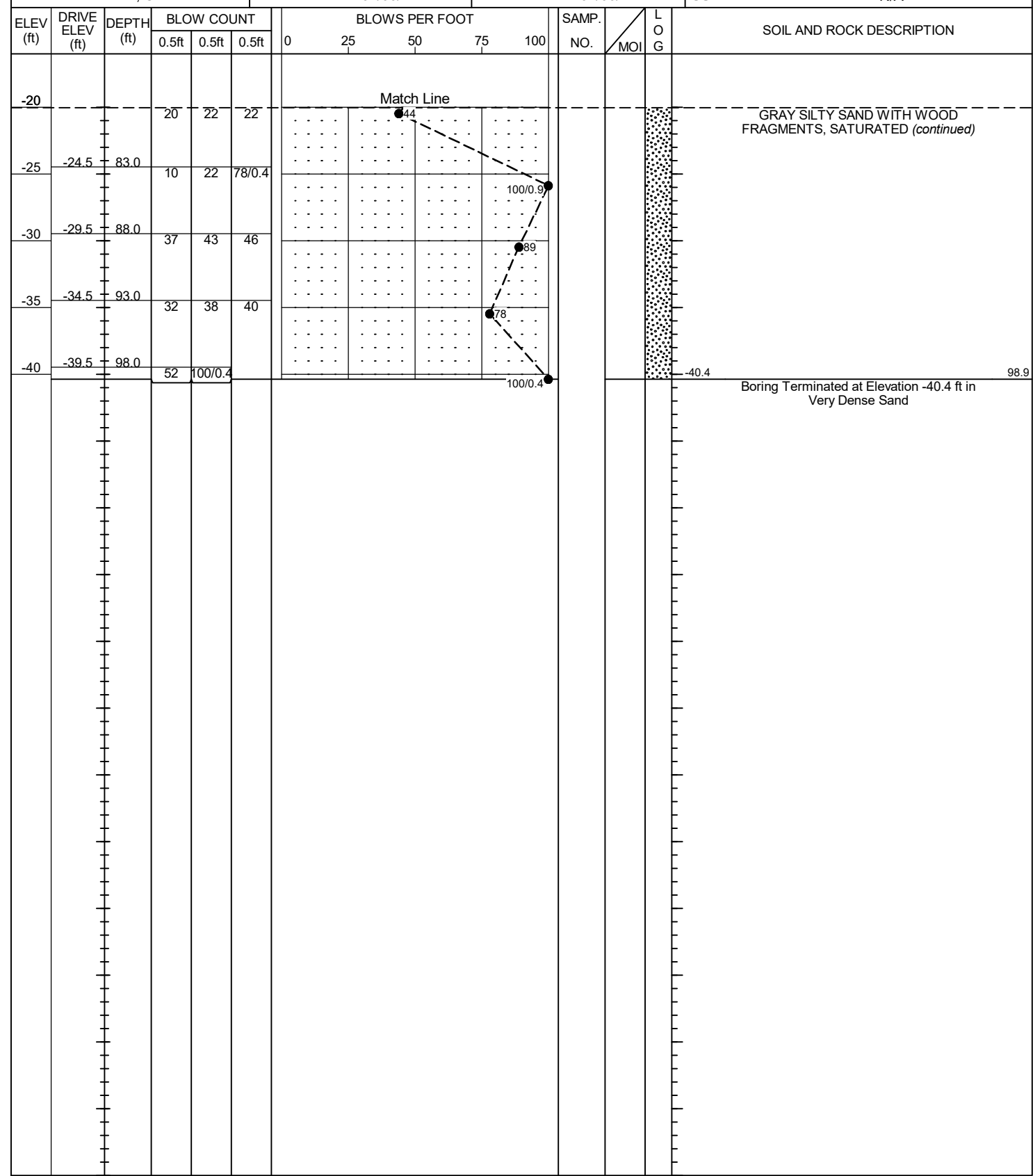
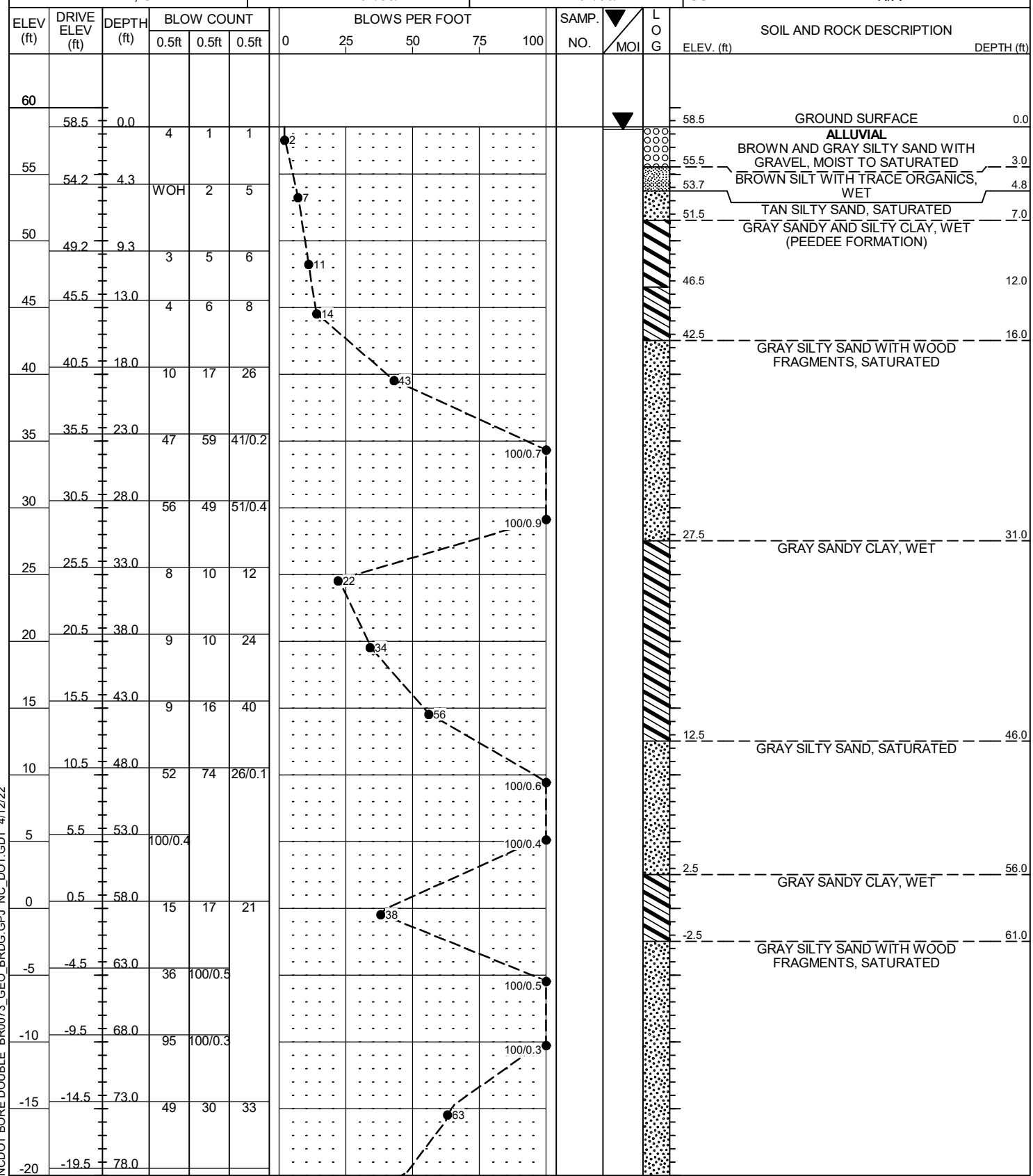
NCDOT BORE DOUBLE BR0073_GEO BRDG.GPJ_NC_DOT.GDT 4/12/22

GEOTECHNICAL BORING REPORT

BORE LOG

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SITE DESCRIPTION BRIDGE NO. 5 ON -L- (US 76) OVER GAPWAY SWAMP			GROUND WTR (ft)
BORING NO. B2-A	STATION 18+69	OFFSET 7 ft LT	ALIGNMENT -L-
COLLAR ELEV. 58.5 ft	TOTAL DEPTH 98.9 ft	NORTHING 191,403	EASTING 1,987,403
DRILL RIGHAMMER EFF./DATE GFC0075 CME-45C 87% 11/23/2021		DRILL METHOD Mud Rotary	HAMMER TYPE Automatic
DRILLER Walker, C. M.	START DATE 04/06/22	COMP. DATE 04/06/22	SURFACE WATER DEPTH N/A

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NCDOT BORE DOUBLE BR0073_GEO BRDG.GPJ_NC_DOT.GDT 4/12/22

