

REFERENCE: R-5819/R-5820

PROJECT: 47091

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY COLUMBUS

PROJECT DESCRIPTION SR 1740 (OLD LAKE RD.)
CONVERT AT-GRADE INTERSECTION TO GRADE
SEPARATION AND SR 1735 (CHAUNCEY TOWN
ROAD) CONVERT AT-GRADE INTERSECTION
TO INTERCHANGE

SITE DESCRIPTION CULVERT ON -Y7- (SR 1738)
OVER CREEK BRANCH NORTH AT STA. 65+70

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5819/R-5820	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

N.O. MOORE

D.G. PINTER

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INVESTIGATED BY T.C. BOTTOMS

DRAWN BY T.C. BOTTOMS

CHECKED BY D.N. ARGENBRIGHT

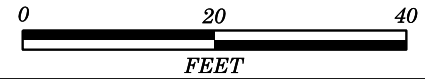
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DATE MARCH 2022

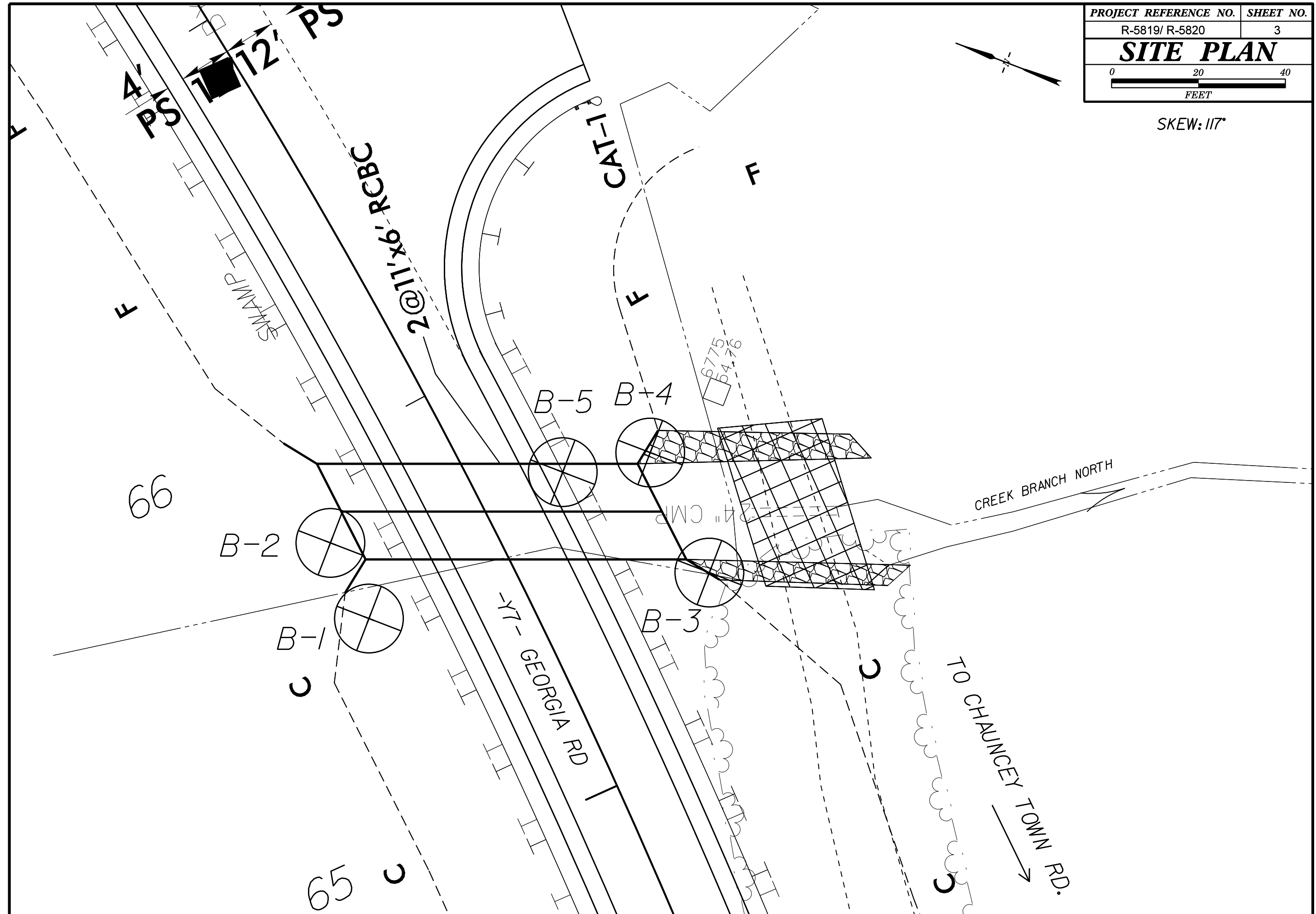


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Tyler Bottoms 03/16/2022
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SITE PLAN



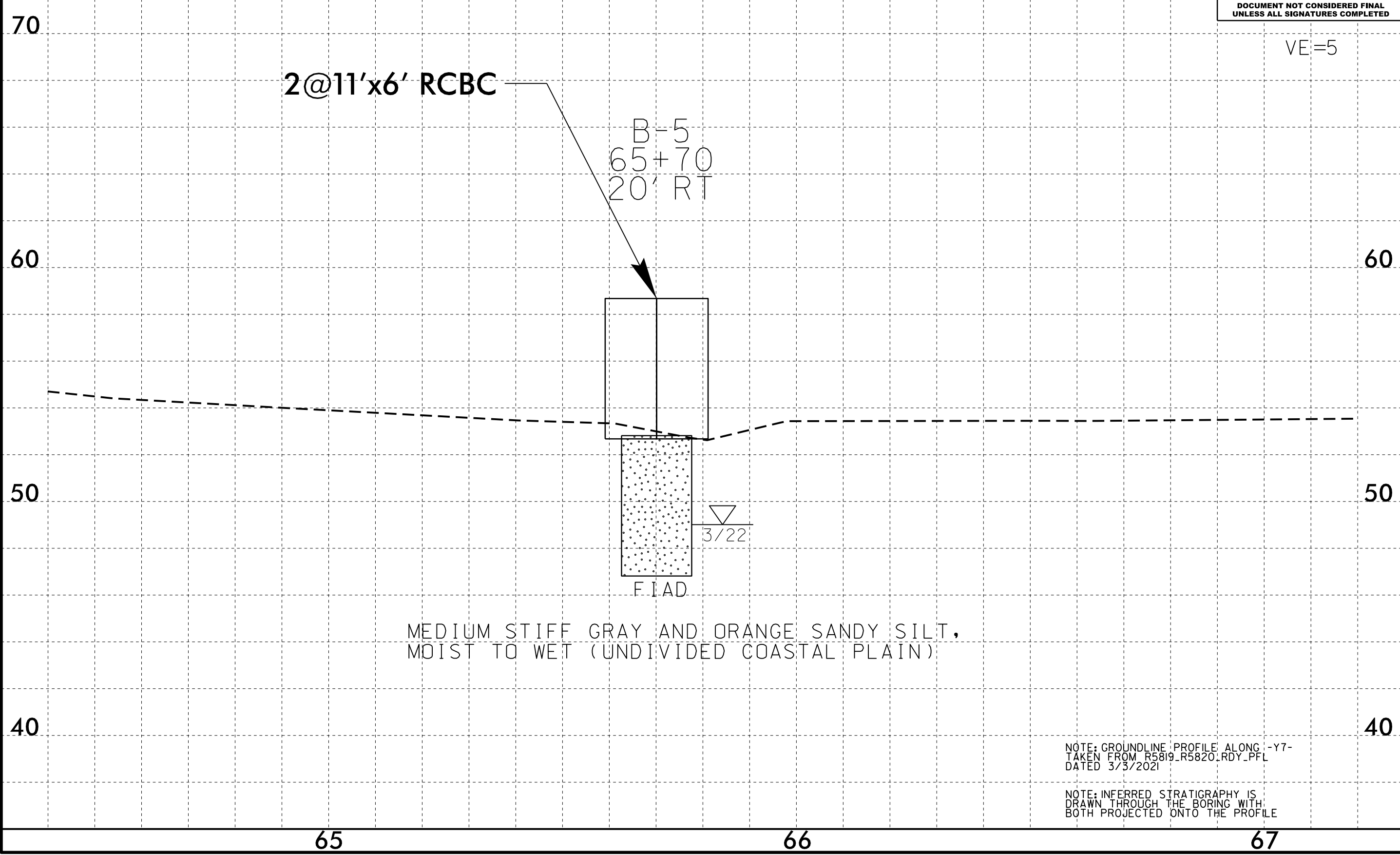
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PROJECT REFERENCE NO. R-5819/ R-5820	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROFILE THROUGH BORINGS PROJECTED ALONG -Y7-



GEOTECHNICAL BORING REPORT

BORE LOG

WBS 47091.1.1	TIP R-5819/ R-5820	COUNTY COLUMBUS	GEOLOGIST Moore, N. O.
SITE DESCRIPTION CULVERT ON -Y7- (SR 1738) OVER CREEK BRANCH NORTH AT STA. 65+70			GROUND WTR (ft)
BORING NO. B-3	STATION 65+35	OFFSET 40 ft RT	ALIGNMENT -Y7-
COLLAR ELEV. 52.8 ft	TOTAL DEPTH 6.0 ft	NORTHING 213,541	EASTING 2,149,531
DRILL RIGHAMMER EFF./DATE NA		DRILL METHOD Hand Auger	HAMMER TYPE NA
DRILLER Pinter, D. G.	START DATE 03/02/22	COMP. DATE 03/02/22	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
55															
														GROUND SURFACE	0.0
														UNDIVIDED COASTAL PLAIN MEDIUM STIFF GRAY AND ORANGE SANDY SILT, MOIST TO WET	
50														Boring Terminated at Elevation 46.8 ft in Medium Stiff Silt	6.0

WBS 47091.1.1	TIP R-5819/ R-5820	COUNTY COLUMBUS	GEOLOGIST Moore, N. O.
SITE DESCRIPTION CULVERT ON -Y7- (SR 1738) OVER CREEK BRANCH NORTH AT STA. 65+70			GROUND WTR (ft)
BORING NO. B-1	STATION 65+60	OFFSET 35 ft LT	ALIGNMENT -Y7-
COLLAR ELEV. 53.6 ft	TOTAL DEPTH 6.0 ft	NORTHING 213,611	EASTING 2,149,493
DRILL RIGHAMMER EFF./DATE NA		DRILL METHOD Hand Auger	HAMMER TYPE NA
DRILLER Pinter, D. G.	START DATE 03/02/22	COMP. DATE 03/02/22	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
55															
														GROUND SURFACE	0.0
											S-1	15%		UNDIVIDED COASTAL PLAIN MEDIUM STIFF GRAY AND ORANGE SANDY SILT, MOIST TO WET	
50														Boring Terminated at Elevation 47.6 ft in Medium Stiff Silt	6.0

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 47091.1.1		TIP R-5819/ R-5820		COUNTY COLUMBUS		GEOLOGIST Moore, N. O.										
SITE DESCRIPTION CULVERT ON -Y7- (SR 1738) OVER CREEK BRANCH NORTH AT STA. 65+70							GROUND WTR (ft)									
BORING NO. B-4		STATION 65+65		OFFSET 40 ft RT		ALIGNMENT -Y7-										
COLLAR ELEV. 52.7 ft		TOTAL DEPTH 6.0 ft		NORTHING 213,564		EASTING 2,149,552										
DRILL RIGHAMMER EFF./DATE N/A		DRILL METHOD Hand Auger		HAMMER TYPE N/A												
DRILLER Pinter, D. G.		START DATE 03/02/22		COMP. DATE 03/02/22		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
55																
															52.7	GROUND SURFACE 0.0
																UNDIVIDED COASTAL PLAIN MEDIUM STIFF GRAY AND ORANGE SANDY SILT, MOIST TO WET
															46.7	Boring Terminated at Elevation 46.7 ft in Medium Stiff Silt 6.0

WBS 47091.1.1		TIP R-5819/ R-5820		COUNTY COLUMBUS		GEOLOGIST Moore, N. O.										
SITE DESCRIPTION CULVERT ON -Y7- (SR 1738) OVER CREEK BRANCH NORTH AT STA. 65+70							GROUND WTR (ft)									
BORING NO. B-5		STATION 65+70		OFFSET 20 ft RT		ALIGNMENT -Y7-										
COLLAR ELEV. 52.9 ft		TOTAL DEPTH 6.0 ft		NORTHING 213,581		EASTING 2,149,540										
DRILL RIGHAMMER EFF./DATE N/A		DRILL METHOD Hand Auger		HAMMER TYPE N/A												
DRILLER Pinter, D. G.		START DATE 03/02/22		COMP. DATE 03/02/22		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
55																
															52.9	GROUND SURFACE 0.0
																UNDIVIDED COASTAL PLAIN MEDIUM STIFF GRAY AND ORANGE SANDY SILT, MOIST TO WET
															46.9	Boring Terminated at Elevation 46.9 ft in Medium Stiff Silt 6.0

NCDOT BORE DOUBLE R6819_R5820_GEO_CUL_Y7.GPJ NC_DOT.GDT 3/9/22

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 47091.1.1		TIP R-5819/ R-5820		COUNTY COLUMBUS		GEOLOGIST Moore, N. O.										
SITE DESCRIPTION CULVERT ON -Y7- (SR 1738) OVER CREEK BRANCH NORTH AT STA. 65+70							GROUND WTR (ft)									
BORING NO. B-2		STATION 65+80		OFFSET 35 ft LT		ALIGNMENT -Y7-										
COLLAR ELEV. 53.2 ft		TOTAL DEPTH 6.0 ft		NORTHING 213,611		EASTING 2,149,493										
DRILL RIGHAMMER EFF./DATE N/A				DRILL METHOD Hand Auger		HAMMER TYPE N/A										
DRILLER Pinter, D. G.		START DATE 03/02/22		COMP. DATE 03/02/22		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			ELEV. (ft)	DEPTH (ft)		
55														53.2	GROUND SURFACE	0.0
50														47.2	UNDIVIDED COASTAL PLAIN MEDIUM STIFF GRAY AND ORANGE SANDY SILT, MOIST TO WET	6.0
															Boring Terminated at Elevation 47.2 ft in Medium Stiff Silt	

NCDOT BORE DOUBLE R6819_R5820_GEO_CUL_Y7.GPJ NC_DOT.GDT 3/9/22

R-5819/R-5820

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SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
								C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-1	-Y7-	35' LT	65+60	0.5-1.5	A-4(1)	20	6	13.1	30.4	40.4	16.1	97	92	59	15.7	-