

REFERENCE: R-5740

PROJECT: 50198

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5740	1	13

**STRUCTURE**  
**SUBSURFACE INVESTIGATION**

**CONTENTS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN - AREA 1
4	SITE PLAN - AREA 2
5-8	PROFILES
9-13	BORE LOGS

COUNTY PERQUIMANS  
PROJECT DESCRIPTION SR 1329 (WOODVILLE RD) FROM  
SR 1331 (RED BANK RD - NORTH END) TO SR 1300  
(NEW HOPE RD)  
SITE DESCRIPTION PROPOSED RETAINING WALLS ON  
-L- (SR 1329) AT AREA 1 OVER DEEP CREEK  
AND AREA 2 OVER MILLS CREEK

**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.

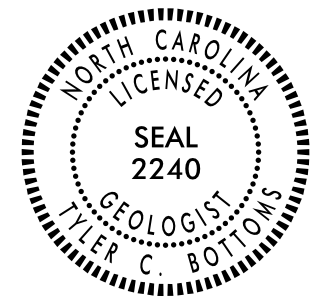
GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND 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  
C.J. CORNETTE  
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 MAY 2017



DocuSigned by:  
Tyler Bottoms 5/16/2017  
48A2D3BDC8D7478E DATE

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

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

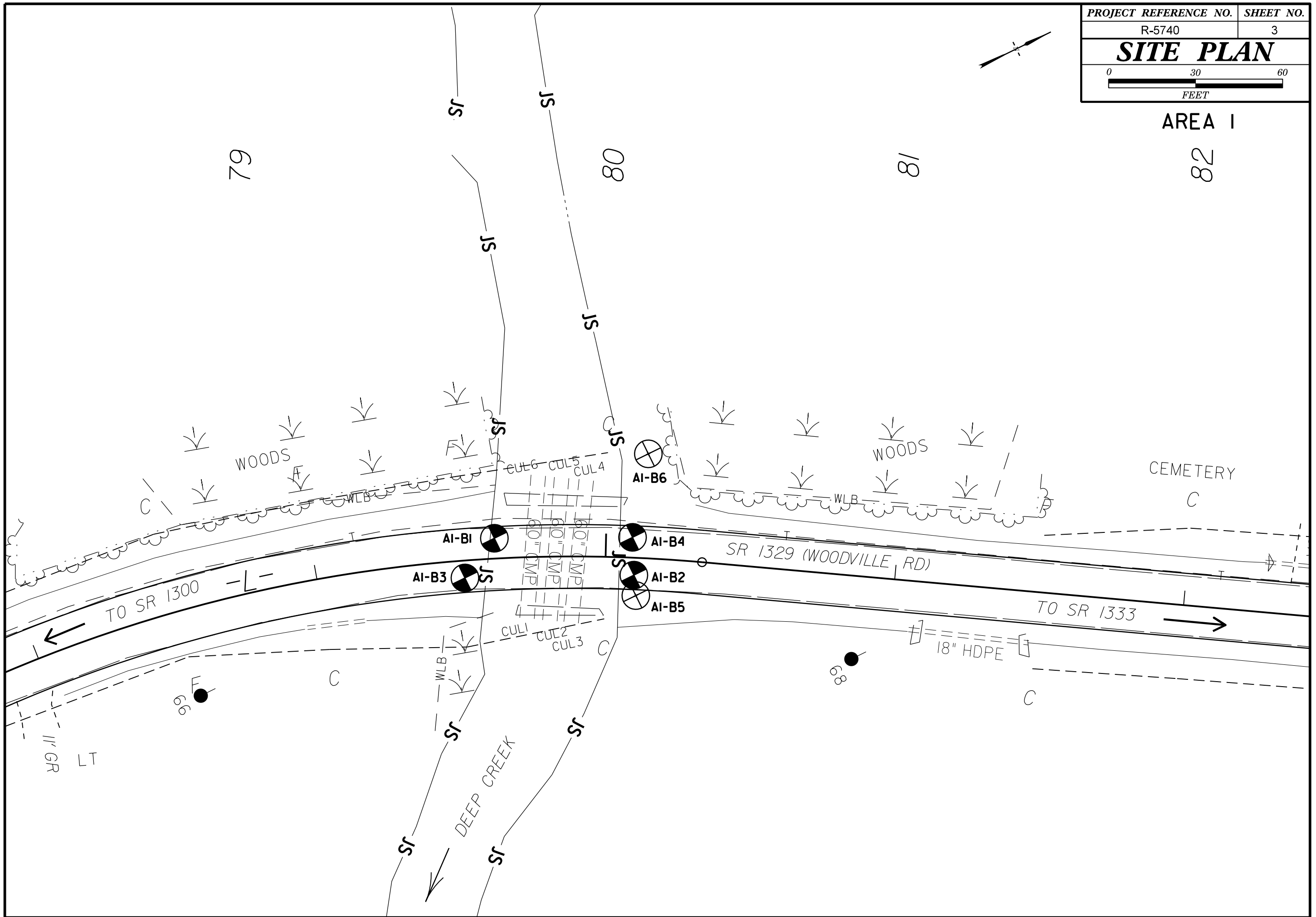
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table containing sections: SOIL DESCRIPTION, SOIL LEGEND AND AASHTO CLASSIFICATION, GRADATION, ANGULARITY OF GRAINS, MINERALOGICAL COMPOSITION, COMPRESSION, PERCENTAGE OF MATERIAL, GROUND WATER, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, ROCK DESCRIPTION, WEATHERING, ROCK HARDNESS, FRACTURE SPACING, BEDDING, INDURATION, and TERMS AND DEFINITIONS.

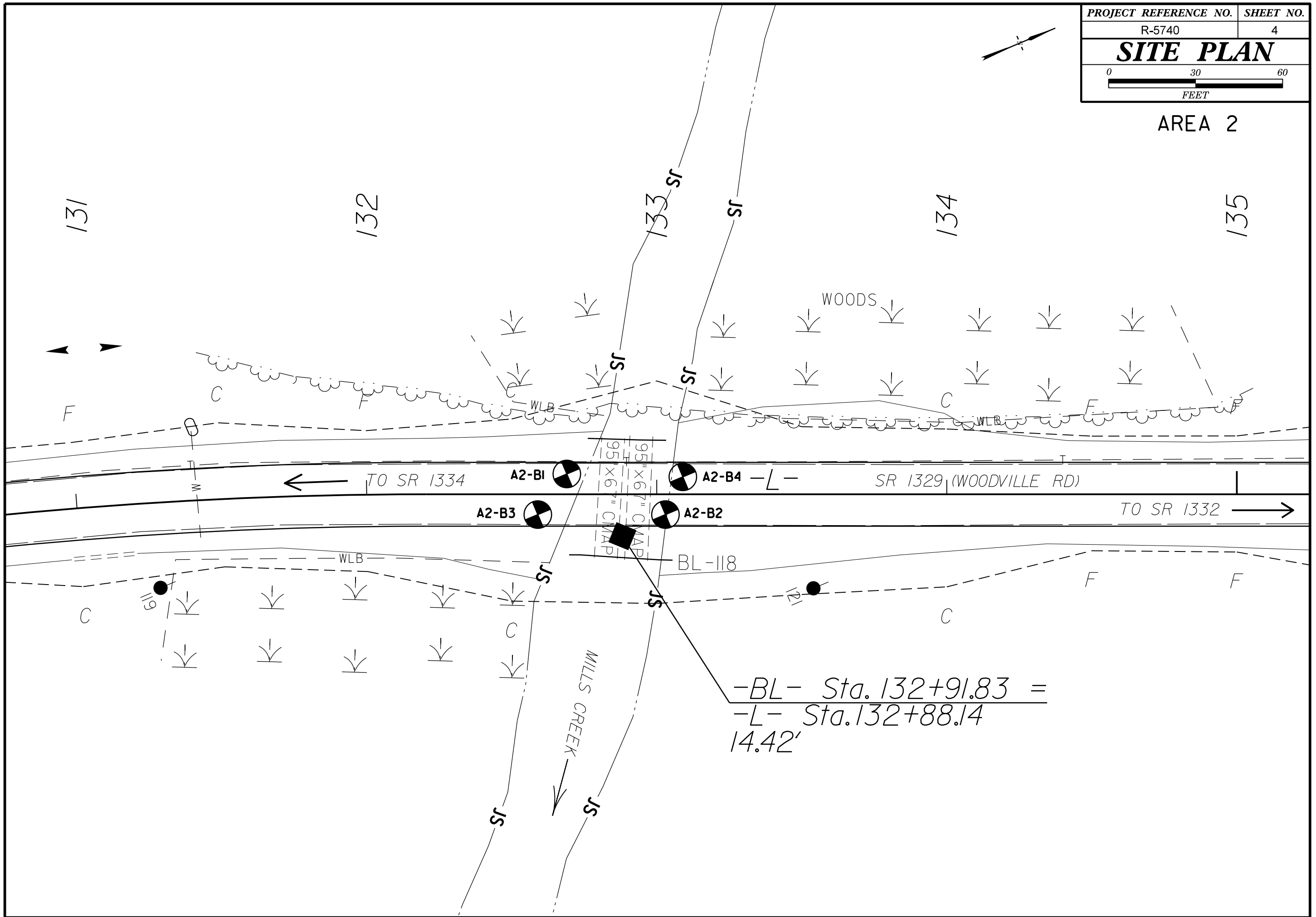
PROJECT REFERENCE NO.	SHEET NO.
R-5740	3
<b>SITE PLAN</b>	
 FEET	

**AREA I**

82



AREA 2



-BL- Sta. 132+91.83 =  
 -L- Sta. 132+88.14  
 14.42'

5/14/99

PROJECT REFERENCE NO. SHEET NO.

R-5740 5

ROADWAY DESIGN ENGINEER

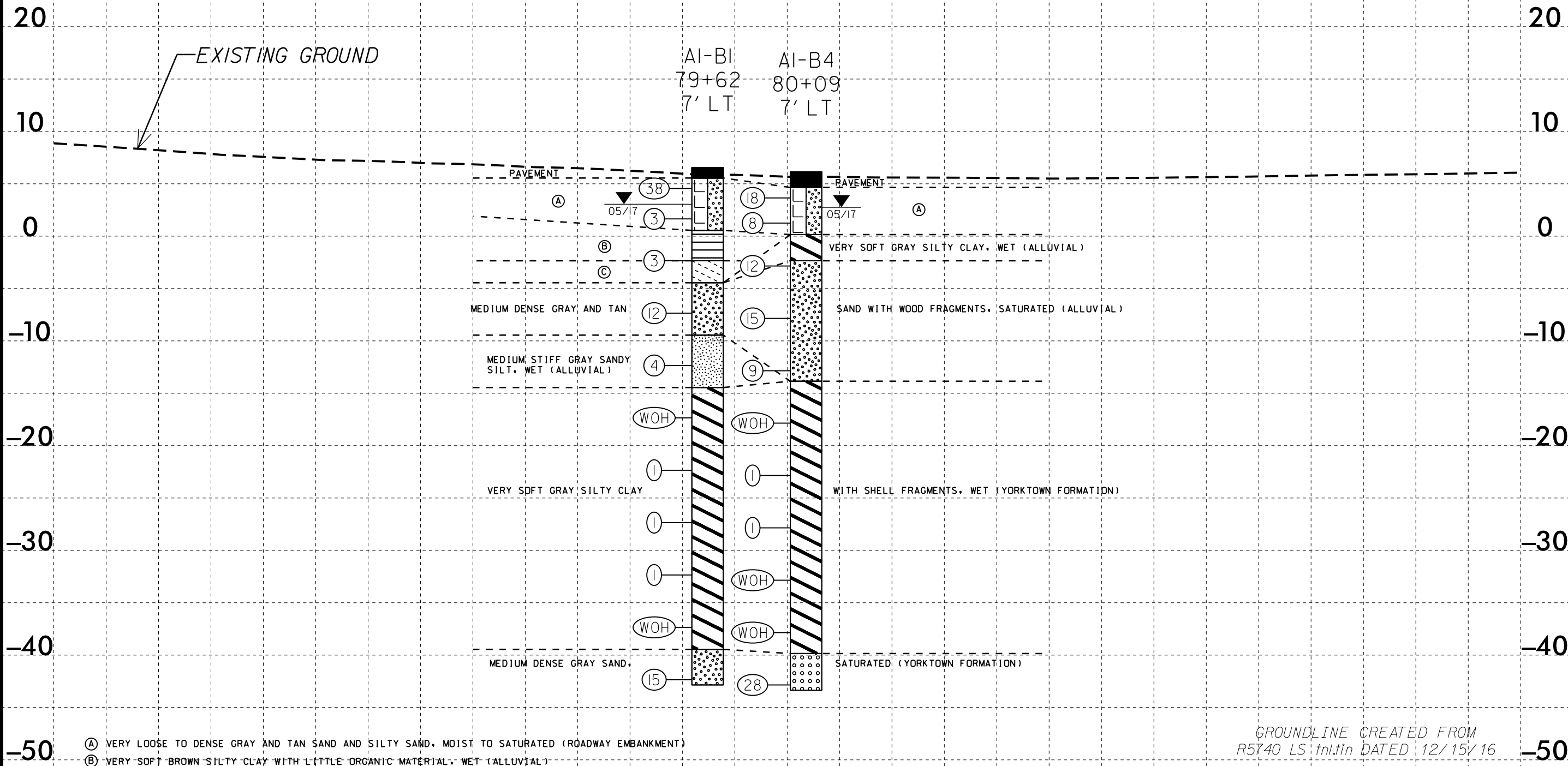
HYDRAULICS ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

VE:5

# PROFILE THROUGH LEFT LANE BORINGS PROJECTED ALONG -L- AT AREA 1



- (A) VERY LOOSE TO DENSE GRAY AND TAN SAND AND SILTY SAND, MOIST TO SATURATED (ROADWAY EMBANKMENT)
- (B) VERY SOFT BROWN SILTY CLAY WITH LITTLE ORGANIC MATERIAL, WET (ALLUVIAL)
- (C) VERY LOOSE BROWN SAND WITH LITTLE ORGANIC MATERIAL, SATURATED (ALLUVIAL)

GROUNDLINE CREATED FROM  
R5740 LS:tbl.tin DATED 12/15/16

I6-MAY-2017 10:18 S:\ER\CORP\greenhill\Investigation\TIP R5740\_GEO\RWALLS\CADD\GEO\TECH\PlanProf\R5740\_rdy.plt.dgn

77 78 79 80 81 82 83

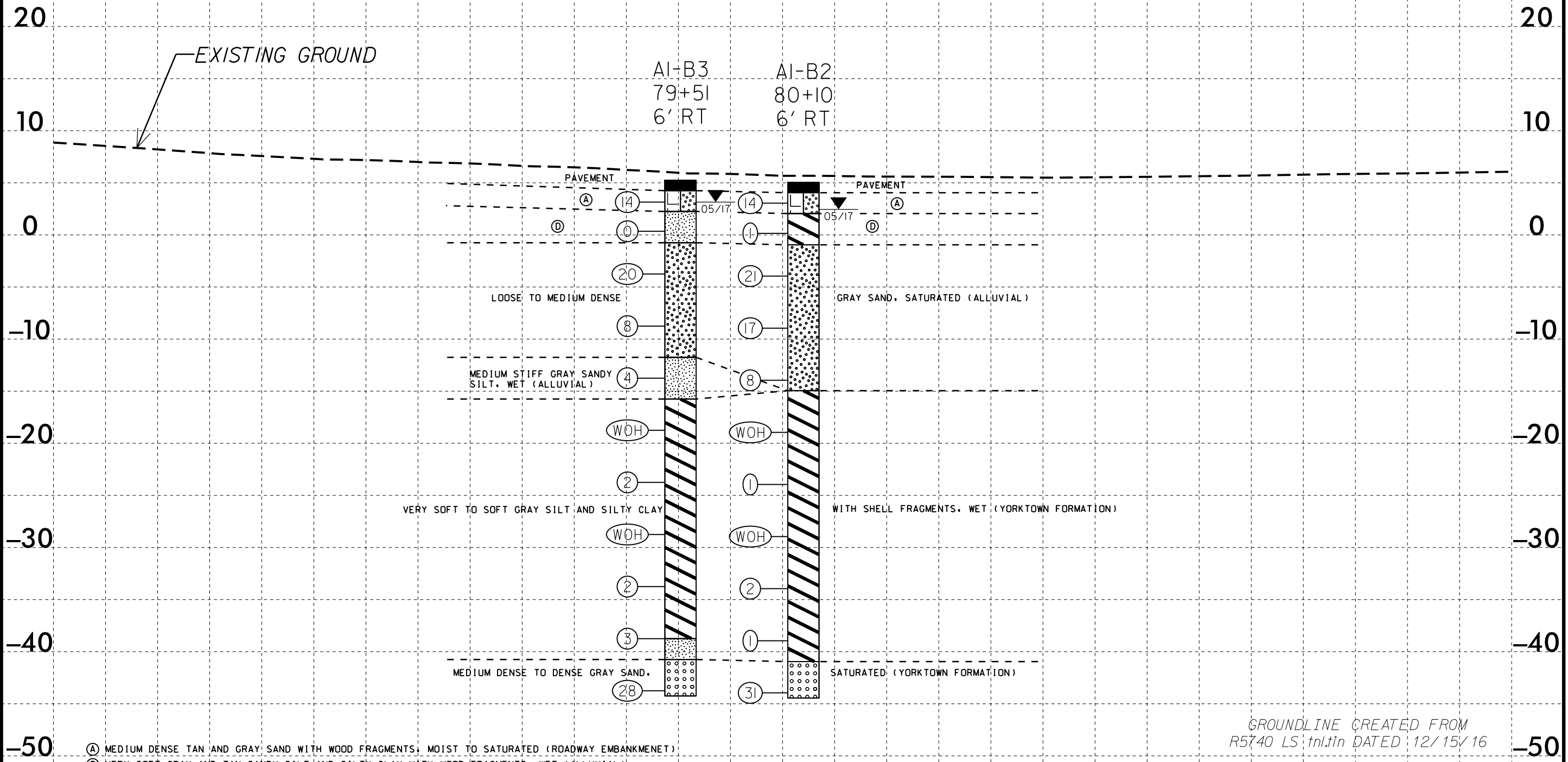
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PROJECT REFERENCE NO. <b>R-5740</b>	SHEET NO. <b>6</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

## PROFILE THROUGH RIGHT LANE BORINGS PROJECTED ALONG -L- AT AREA 1

VE:5

76



GROUNDLINE CREATED FROM  
R5740 LS.tbl DATED 12/15/16

77 78 79 80 81 82 83







# GEOTECHNICAL BORING REPORT

## BORE LOG

WBS 50198.1.1		TIP R-5740		COUNTY PERQUIMANS		GEOLOGIST Cornette, CJ									
SITE DESCRIPTION PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK							GROUND WTR (ft)								
BORING NO. A1-B1		STATION 79+62		OFFSET 7 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 6.6 ft		TOTAL DEPTH 49.4 ft		NORTHING 893,117		EASTING 2,792,073									
DRILL RIG/HAMMER EFF./DATE GFO0075 CME-45C 83% 04/11/2016			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER Smith, R. E.		START DATE 05/02/17		COMP. DATE 05/02/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
10															
5	5.6	1.0	15	19	19									6.6	GROUND SURFACE 0.0
														5.6	PAVEMENT 1.0
	2.7	3.9	3	2	1									0.6	ROADWAY EMBANKMENT 6.0
0														-2.3	GRAY AND TAN SAND, MOIST TO SATURATED
	-1.3	7.9	WOH	WOH	3									-4.4	ALLUVIAL 8.9
														-9.4	BROWN SILTY CLAY WITH LITTLE ORGANIC MATERIAL, WET
-5														-11.0	BROWN SAND WITH LITTLE ORGANIC MATERIAL, SATURATED
	-6.3	12.9	6	7	5									-16.0	GRAY SAND, SATURATED
														-21.0	GRAY SANDY SILT, WET
-10														-21.4	COASTAL PLAIN 21.0
	-11.3	17.9	4	2	2										GRAY SILTY CLAY WITH SHELL FRAGMENTS, WET (YORKTOWN FORMATION)
-15															
	-16.3	22.9	WOH	WOH	WOH										
-20															
	-21.3	27.9	WOH	WOH	1										
-25															
	-26.3	32.9	WOH	WOH	1										
-30															
	-31.3	37.9	WOH	WOH	1										
-35															
	-36.3	42.9	WOH	WOH	WOH										
-40															
	-41.3	47.9	5	7	8									-39.4	COASTAL PLAIN 46.0
														-42.8	GRAY SAND, SATURATED (YORKTOWN FORMATION) 49.4
															Boring Terminated at Elevation -42.8 ft in Medium Dense Sand

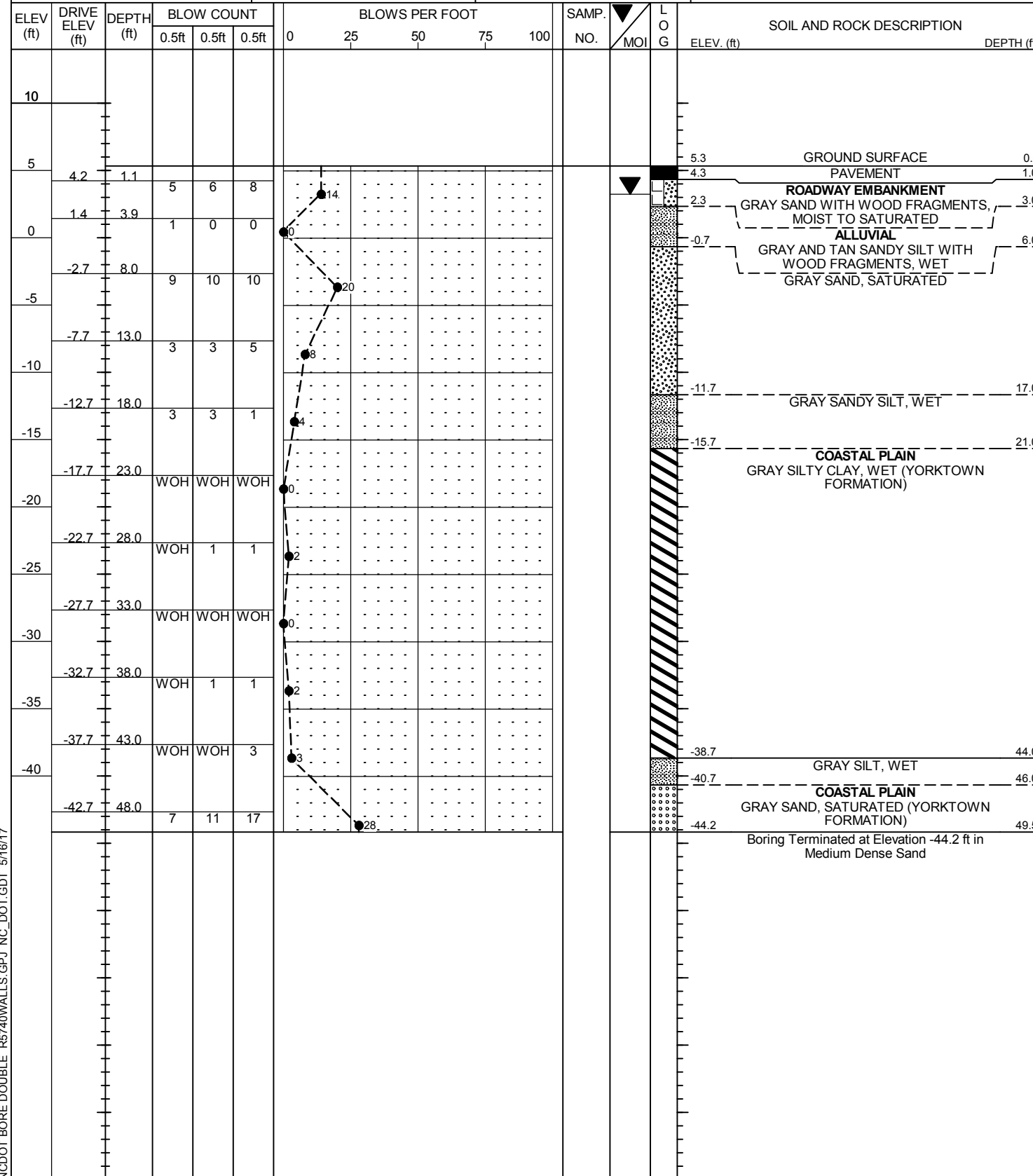
WBS 50198.1.1		TIP R-5740		COUNTY PERQUIMANS		GEOLOGIST Cornette, CJ									
SITE DESCRIPTION PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK							GROUND WTR (ft)								
BORING NO. A1-B2		STATION 80+10		OFFSET 6 ft RT		ALIGNMENT -L-									
COLLAR ELEV. 5.1 ft		TOTAL DEPTH 49.5 ft		NORTHING 893,155		EASTING 2,792,105									
DRILL RIG/HAMMER EFF./DATE GFO0075 CME-45C 83% 04/11/2016			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER Smith, R. E.		START DATE 05/02/17		COMP. DATE 05/02/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
10															
5	4.1	1.0	7	6	8									5.1	GROUND SURFACE 0.0
														2.1	PAVEMENT 1.0
	1.2	3.9	1	0	1									-0.9	ROADWAY EMBANKMENT 3.0
0														-2.9	TAN AND GRAY SAND, MOIST TO SATURATED
														-7.9	ALLUVIAL 6.0
														-14.9	GRAY SILTY CLAY WITH WOOD FRAGMENTS, WET
-5															GRAY SAND, SATURATED
	-2.9	8.0	6	11	10										
-10															
	-7.9	13.0	7	9	8										
-15															
	-12.9	18.0	3	4	4										
-20															
	-17.9	23.0	WOH	WOH	WOH										
-25															
	-22.9	28.0	WOH	WOH	1										
-30															
	-27.9	33.0	WOH	WOH	WOH										
-35															
	-32.9	38.0	WOH	1	1										
-40															
	-37.9	43.0	WOH	WOH	1										
	-42.9	48.0	5	12	19									-40.9	COASTAL PLAIN 46.0
														-44.4	GRAY SAND, SATURATED (YORKTOWN FORMATION) 49.5
															Boring Terminated at Elevation -44.4 ft in Dense Sand

NCDOT BORE DOUBLE R5740WALLS.GPJ NC\_DOT.GDT 5/16/17

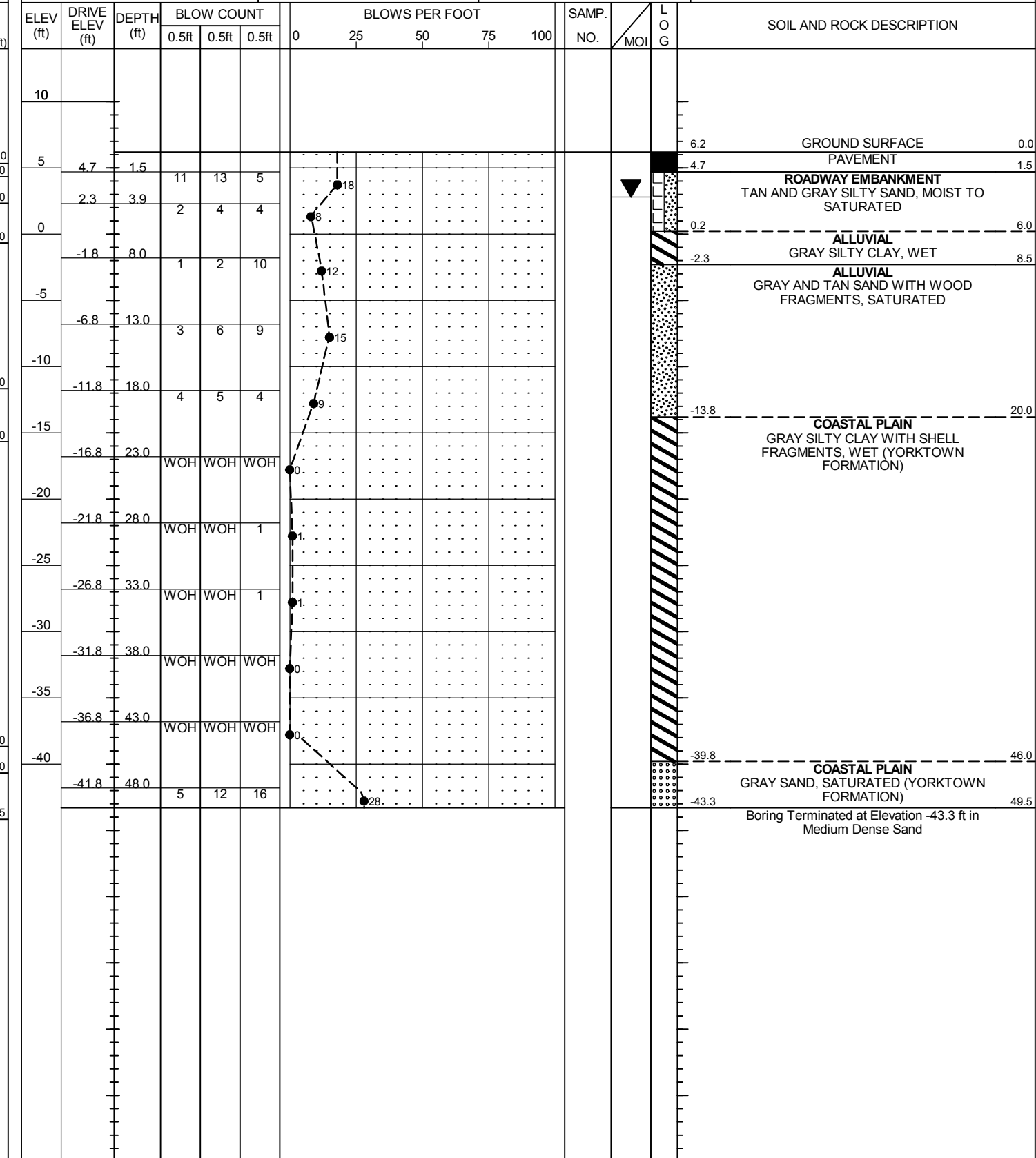
# GEOTECHNICAL BORING REPORT

## BORE LOG

<b>WBS</b> 50198.1.1	<b>TIP</b> R-5740	<b>COUNTY</b> PERQUIMANS	<b>GEOLOGIST</b> Cornette, CJ
<b>SITE DESCRIPTION</b> PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK			<b>GROUND WTR (ft)</b>
<b>BORING NO.</b> A1-B3	<b>STATION</b> 79+51	<b>OFFSET</b> 6 ft RT	<b>ALIGNMENT</b> -L-
<b>COLLAR ELEV.</b> 5.3 ft	<b>TOTAL DEPTH</b> 49.5 ft	<b>NORTHING</b> 893,102	<b>EASTING</b> 2,792,080
<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> 05/02/17	<b>COMP. DATE</b> 05/02/17	<b>SURFACE WATER DEPTH</b> N/A



<b>WBS</b> 50198.1.1	<b>TIP</b> R-5740	<b>COUNTY</b> PERQUIMANS	<b>GEOLOGIST</b> Cornette, CJ
<b>SITE DESCRIPTION</b> PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK			<b>GROUND WTR (ft)</b>
<b>BORING NO.</b> A1-B4	<b>STATION</b> 80+09	<b>OFFSET</b> 7 ft LT	<b>ALIGNMENT</b> -L-
<b>COLLAR ELEV.</b> 6.2 ft	<b>TOTAL DEPTH</b> 49.5 ft	<b>NORTHING</b> 893,160	<b>EASTING</b> 2,792,093
<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> 05/02/17	<b>COMP. DATE</b> 05/02/17	<b>SURFACE WATER DEPTH</b> N/A



NCDOT BORE DOUBLE R5740WALLS.GPJ NC\_DOT.GDT 5/16/17

# GEOTECHNICAL BORING REPORT

## BORE LOG

WBS 50198.1.1		TIP R-5740		COUNTY PERQUIMANS		GEOLOGIST Cornette, CJ	
SITE DESCRIPTION PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK							GROUND WTR (ft)
BORING NO. A1-B5		STATION 80+11		OFFSET 13 ft RT		ALIGNMENT -L-	
COLLAR ELEV. 3.9 ft		TOTAL DEPTH 6.0 ft		NORTHING 893,152		EASTING 2,792,112	
DRILL RIG/HAMMER EFF./DATE N/A		DRILL METHOD Hand Auger		HAMMER TYPE N/A			
DRILLER Smith, R. E.		START DATE 05/03/17		COMP. DATE 05/03/17		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						
5																
0																

GROUND SURFACE 0.0

ROADWAY EMBANKMENT 1.9

LOOSE BROWN SAND, MOIST 2.9

ALLUVIAL 1.4

SOFT GRAY AND BROWN SILTY CLAY, MOIST -0.6

LOOSE GRAY SAND, MOIST -2.1

SOFT GRAY SILTY CLAY WITH WOOD FRAGMENTS, WET

Boring Terminated at Elevation -2.1 ft in Very Soft Silty Clay

NCDOT BORE DOUBLE R5740WALLS.GPJ NC\_DOT.GDT 5/16/17

WBS 50198.1.1		TIP R-5740		COUNTY PERQUIMANS		GEOLOGIST Cornette, CJ	
SITE DESCRIPTION PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 1 OVER DEEP CREEK							GROUND WTR (ft)
BORING NO. A1-B6		STATION 80+13		OFFSET 36 ft LT		ALIGNMENT -L-	
COLLAR ELEV. 5.1 ft		TOTAL DEPTH 6.0 ft		NORTHING 893,178		EASTING 2,792,070	
DRILL RIG/HAMMER EFF./DATE N/A		DRILL METHOD Hand Auger		HAMMER TYPE N/A			
DRILLER Smith, R. E.		START DATE 05/03/17		COMP. DATE 05/03/17		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						
10																
5																
0																

GROUND SURFACE 0.0

ROADWAY EMBANKMENT 5.1

LOOSE BROWN SAND, MOIST 4.1

ALLUVIAL

SOFT GRAY SILTY CLAY WITH WOOD FRAGMENTS, MOIST TO WET 0.1

SOFT GRAY SILT, WET -0.9

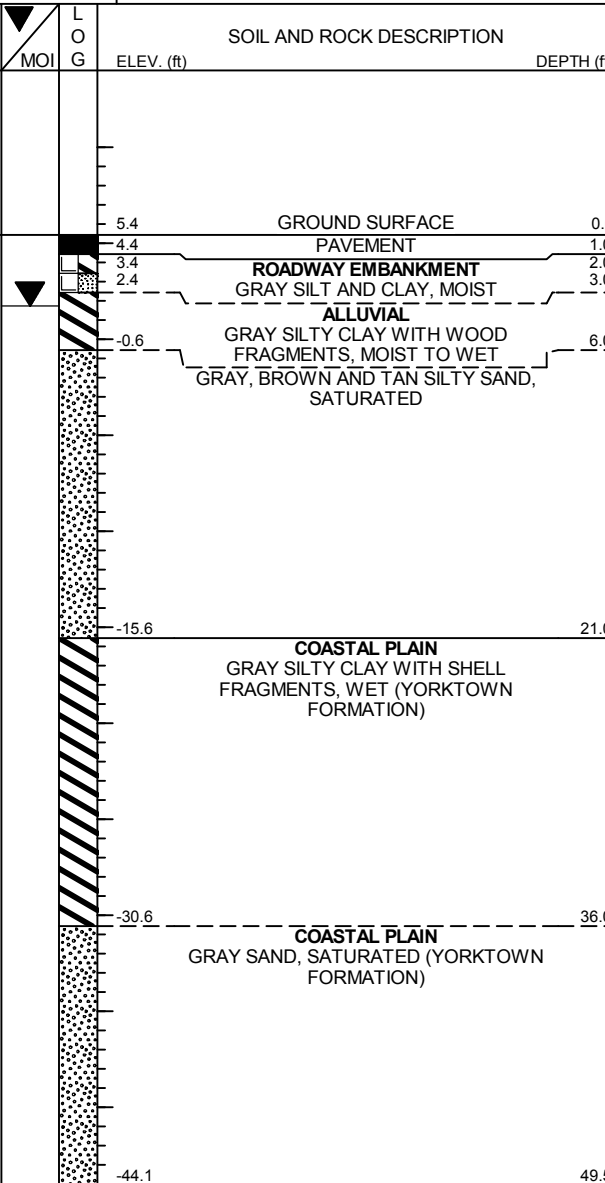
Boring Terminated at Elevation -0.9 ft in Very Soft Silt

# GEOTECHNICAL BORING REPORT

## BORE LOG

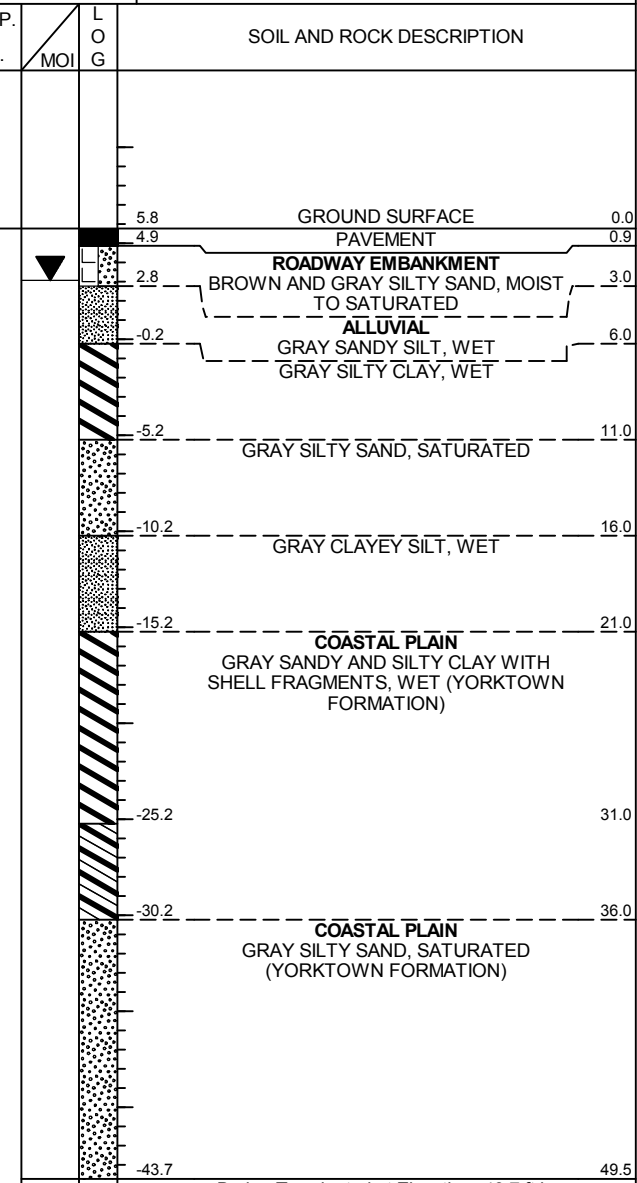
<b>WBS</b> 50198.1.1	<b>TIP</b> R-5740	<b>COUNTY</b> PERQUIMANS	<b>GEOLOGIST</b> Cornette, CJ
<b>SITE DESCRIPTION</b> PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 2 OVER MILLS CREEK			<b>GROUND WTR (ft)</b>
<b>BORING NO.</b> A2-B1	<b>STATION</b> 132+69	<b>OFFSET</b> 7 ft LT	<b>ALIGNMENT</b> -L-
<b>COLLAR ELEV.</b> 5.4 ft	<b>TOTAL DEPTH</b> 49.5 ft	<b>NORTHING</b> 897,394	<b>EASTING</b> 2,794,732
<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> 05/01/17	<b>COMP. DATE</b> 05/01/17	<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					
10															
5	4.4	1.0													
			5	7	8										
0	1.5	3.9	1	2	1										
-5	-2.6	8.0	3	6	6										
-10	-7.6	13.0	1	3	3										
-15	-12.6	18.0	1	3	2										
-20	-17.6	23.0	WOH	WOH	WOH										
-25	-22.6	28.0	WOH	WOH	WOH										
-30	-27.6	33.0	WOH	WOH	WOH										
-35	-32.6	38.0	2	8	14										
-40	-37.6	43.0	7	9	12										
-45	-42.6	48.0	10	15	15										



<b>WBS</b> 50198.1.1	<b>TIP</b> R-5740	<b>COUNTY</b> PERQUIMANS	<b>GEOLOGIST</b> Cornette, CJ
<b>SITE DESCRIPTION</b> PROPOSED RETAINING WALLS ON -L- (SR 1329) AT AREA 2 OVER MILLS CREEK			<b>GROUND WTR (ft)</b>
<b>BORING NO.</b> A2-B2	<b>STATION</b> 133+03	<b>OFFSET</b> 7 ft RT	<b>ALIGNMENT</b> -L-
<b>COLLAR ELEV.</b> 5.8 ft	<b>TOTAL DEPTH</b> 49.5 ft	<b>NORTHING</b> 897,421	<b>EASTING</b> 2,794,759
<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> 05/02/17	<b>COMP. DATE</b> 05/02/17	<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					
10															
5	4.9	0.9													
			10	11	8										
0	1.9	3.9	4	3	3										
-5	-2.2	8.0	2	2	4										
-10	-7.2	13.0	3	5	6										
-15	-12.2	18.0	2	1	0										
-20	-17.2	23.0	WOH	WOH	1										
-25	-22.2	28.0	WOH	WOH	1										
-30	-27.2	33.0	WOH	WOH	1										
-35	-32.2	38.0	1	1	2										
-40	-37.2	43.0	6	9	16										
-45	-42.2	48.0	9	16	21										



NCDOT BORE DOUBLE R5740WALLS.GPJ NC\_DOT.GDT 5/16/17

