

REFERENCE: B-3186/B-5898

PROJECT: 38332/48030

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

**STRUCTURE
SUBSURFACE INVESTIGATION**

COUNTY HAYWOOD
PROJECT DESCRIPTION US 23/US 74/US 19 (GREAT
SMOKY MOUNTAIN HWY) FROM WEST OF NC
209(CRABTREE RD.) TO EAST OF RUSS AVE.
SITE DESCRIPTION RETAINING WALL #8
FROM -DET01 EB- STA. 34+83.83 TO 29+30.48

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN
4	PROFILE
5-9	BORE LOGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3186/B-5898	1	9

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:
- 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
R. DUGGER
N. YACOBI
GEOTECHNOLOGY, INC.

INVESTIGATED BY C. SWAFFORD
DRAWN BY T. LYNN
CHECKED BY K. BUSSEY
SUBMITTED BY HDR
DATE NOVEMBER 2021

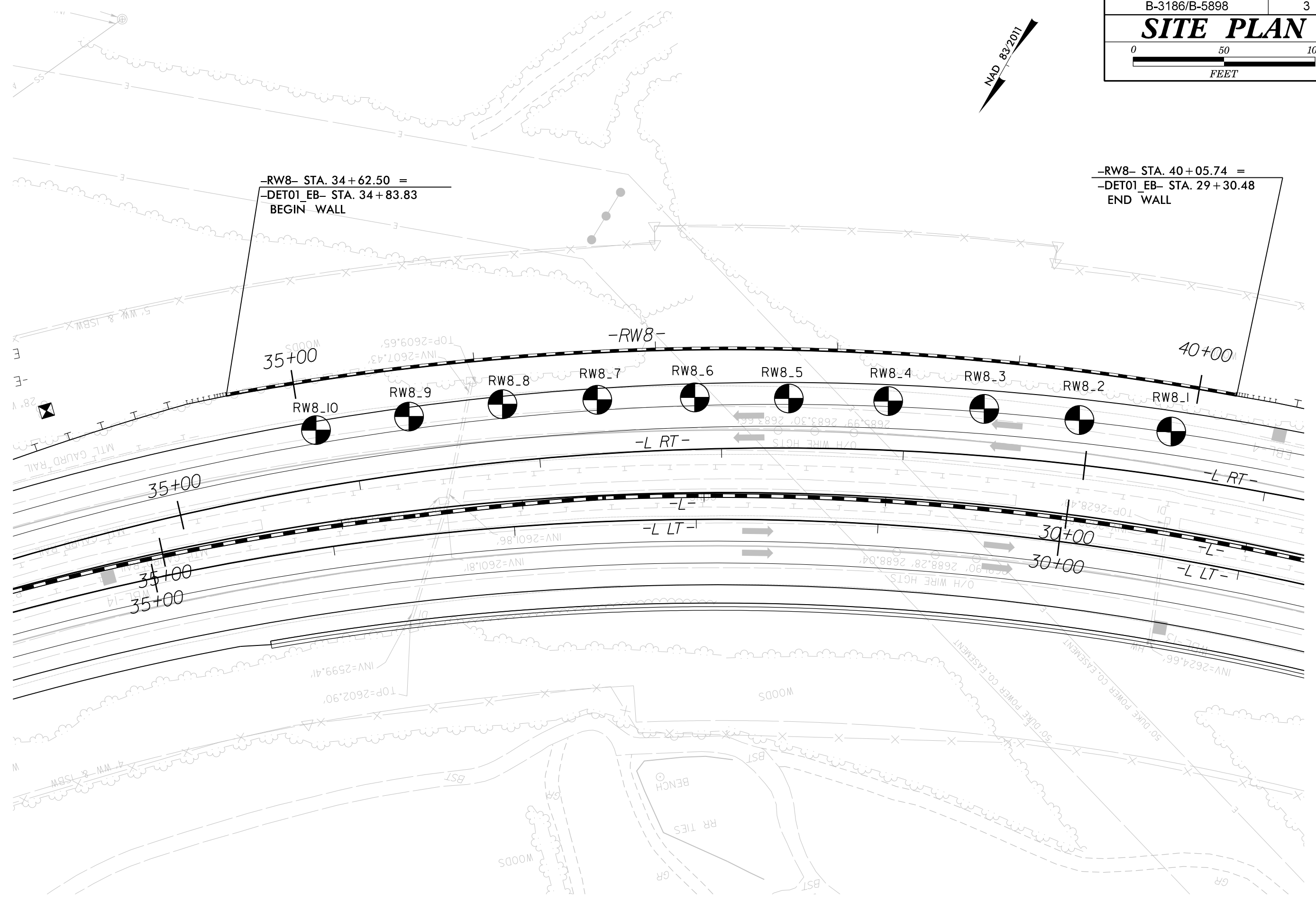
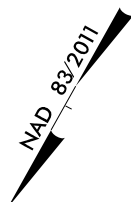
HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-01116



Kenneth R. Bussey, Jr. 9/6/2023
SIGNATURE DATE

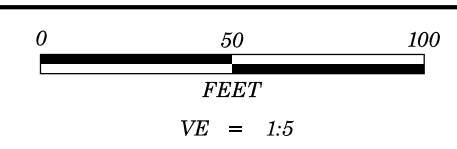
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UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. B-3186/B-5898	SHEET NO. 3
<h1>SITE PLAN</h1>	
<p>0 50 100 FEET</p>	



-RW8- STA. 34+62.50 =
-DET01_EB- STA. 34+83.83
BEGIN WALL

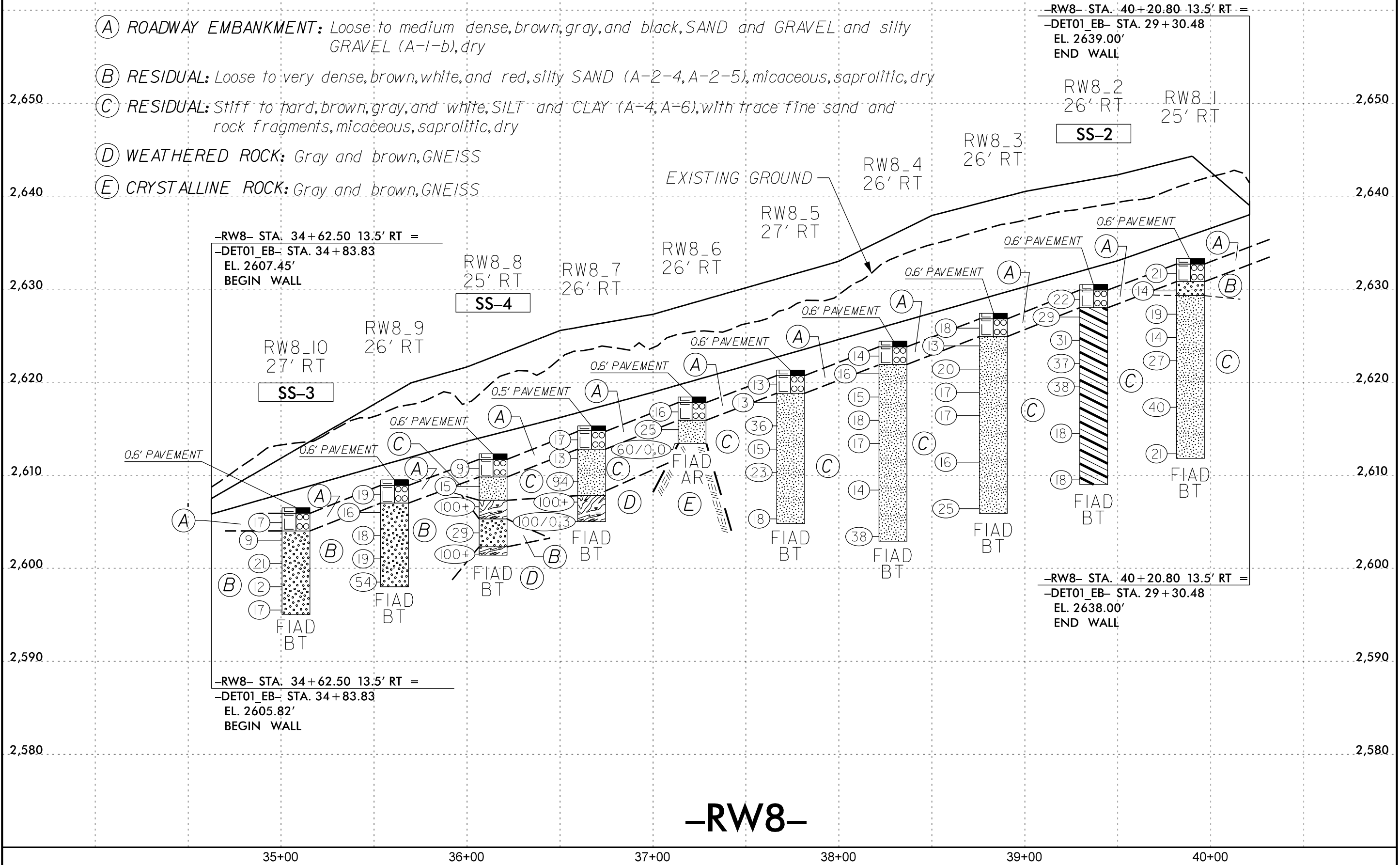
-RW8- STA. 40+05.74 =
-DET01_EB- STA. 29+30.48
END WALL



PROJECT REFERENCE NO.	SHEET NO.
B-3186/B-5898	4
-RW8- PROFILE	

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-3	27' RT	35+08	2.5' - 4.0'	A-2-5	44	7	54.2	24.3	14.6	6.9	95.1	55.9	25.7	26	-
SS-4	25' RT	36+14	7.5' - 9.0'	A-2-4	28	6	54.4	23.4	15.4	6.8	87.7	50.7	24.3	10	-
SS-2	26' RT	39+37	2.5' - 4.0'	A-6 (2)	34	13	33.6	31.1	30.2	5.1	96.0	76.0	41.0	15	-

- (A) ROADWAY EMBANKMENT: Loose to medium dense, brown, gray, and black, SAND and GRAVEL and silty GRAVEL (A-1-b), dry
- (B) RESIDUAL: Loose to very dense, brown, white, and red, silty SAND (A-2-4, A-2-5), micaceous, saprolitic, dry
- (C) RESIDUAL: Stiff to hard, brown, gray, and white, SILT and CLAY (A-4, A-6), with trace fine sand and rock fragments, micaceous, saprolitic, dry
- (D) WEATHERED ROCK: Gray and brown, GNEISS
- (E) CRYSTALLINE ROCK: Gray and brown, GNEISS



-RW8-

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_10		STATION 35+08		OFFSET 27 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,606.5 ft		TOTAL DEPTH 11.5 ft		NORTHING 665,687		EASTING 818,414								
DRILL RIGHAMMER EFF/DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/26/21		COMP. DATE 01/26/21		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				
2610														
2605	2,605.9	0.6	7	10	7									GROUND SURFACE 0.0
	2,604.0	2.5	4	4	5									0.6' PAVEMENT 0.6
	2,601.5	5.0	6	8	13									ROADWAY EMBANKMENT 2.5
	2,599.0	7.5	5	5	7									Medium dense, gray and brown, SAND and GRAVEL (A-1-b)
	2,596.5	10.0	6	7	10									RESIDUAL
2595														Loose to medium dense, white, brown and red, fine to coarse SAND (A-2-5) with little silt and trace clay, micaceous, saprolitic
Boring Terminated at Elevation 2,595.0 ft in SAND														

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_9		STATION 35+61		OFFSET 26 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,609.5 ft		TOTAL DEPTH 11.5 ft		NORTHING 665,656		EASTING 818,373								
DRILL RIGHAMMER EFF/DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		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				
2610														
	2,608.9	0.6	7	11	8									GROUND SURFACE 0.0
	2,607.0	2.5	4	9	7									0.6' PAVEMENT 0.6
2605	2,604.5	5.0	8	8	10									ROADWAY EMBANKMENT 2.5
	2,602.0	7.5	4	8	11									Medium dense, gray and brown, SAND and GRAVEL (A-1-b)
2600	2,599.5	10.0	16	32	22									RESIDUAL
														Medium dense to very dense, brown, white and black, silty SAND (A-2-4), with trace rock fragments, micaceous
														Boring Terminated at Elevation 2,598.0 ft in SAND

NCDOT BORE DOUBLE B3186_GEO_SPT.GPJ NC_DOT.GDT 5/26/21

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi										
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)									
BORING NO. RW8_8		STATION 36+14		OFFSET 25 ft RT		ALIGNMENT -RW8-										
COLLAR ELEV. 2,612.3 ft		TOTAL DEPTH 10.9 ft		NORTHING 665,625		EASTING 818,331										
DRILL RIGHAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
2615																
	2,611.7	0.6	6	4	5											2,612.3
	2,609.8	2.5	8	7	8											2,611.7
2610																2,609.8
	2,607.3	5.0	64	54/0.5												2,607.3
2605																2,605.3
	2,604.8	7.5	10	15	14											2,605.3
	2,602.3	10.0	24	100/0.4												2,602.3
																2,601.4

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi										
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)									
BORING NO. RW8_7		STATION 36+67		OFFSET 26 ft RT		ALIGNMENT -RW8-										
COLLAR ELEV. 2,615.3 ft		TOTAL DEPTH 10.3 ft		NORTHING 665,597		EASTING 818,287										
DRILL RIGHAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
2620																
	2,614.8	0.5	6	8	9											2,615.3
2615																2,614.8
	2,612.8	2.5	5	6	7											2,612.8
2610																2,610.3
	2,610.3	5.0	10	53	41											2,610.3
	2,607.8	7.5	32	100/0.4												2,607.8
2605																2,605.3
		10.0	100/0.3													2,605.0

NCDOT BORE DOUBLE B3186_GEO_SPT.GPJ NC_DOT.GDT 5/26/21

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_6		STATION 37+21		OFFSET 26 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,618.4 ft		TOTAL DEPTH 5.0 ft		NORTHING 665,570		EASTING 818,241								
DRILL RIG/HAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		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				
2620														
	2,617.8	0.6	9	6	10									2,618.4 GROUND SURFACE 0.0
	2,615.9	2.5												2,617.8 0.6
2615			9	10	15									2,615.9 ROADWAY EMBANKMENT 2.5
	2,613.4	5.0	60/0.0											2,613.4 GRAVEL (A-1-b) 5.0
														RESIDUAL 5.0
														Very stiff, brown, black, and gray, SILT (A-4), saprolitic
														Boring Terminated with Standard Penetration Test Refusal at Elevation 2,613.4 ft on Crystalline Rock (GNEISS)

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_5		STATION 37+74		OFFSET 27 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,621.3 ft		TOTAL DEPTH 16.5 ft		NORTHING 665,545		EASTING 818,196								
DRILL RIG/HAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		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				
2625														
	2,620.7	0.6												2,621.3 GROUND SURFACE 0.0
2620			6	6	7									2,620.7 0.6
	2,618.8	2.5	8	6	7									2,618.8 ROADWAY EMBANKMENT 2.5
	2,616.3	5.0	18	21	15									2,616.3 GRAVEL (A-1-b) 5.0
2615			5	5	10									RESIDUAL 5.0
	2,613.8	7.5												Stiff to hard, white, gray and brown, SILT (A-4), with trace clay, micaceous, saprolitic
	2,611.3	10.0	8	10	13									
2610														
	2,606.3	15.0	5	7	11									
2605														
														Boring Terminated at Elevation 2,604.8 ft in SILT

NCDOT BORE DOUBLE B3186_GEO_SPT.GPJ NC_DOT.GDT 5/26/21

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi										
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)									
BORING NO. RW8_4		STATION 38+29		OFFSET 26 ft RT		ALIGNMENT -RW8-										
COLLAR ELEV. 2,624.4 ft		TOTAL DEPTH 21.5 ft		NORTHING 665,520		EASTING 818,149										
DRILL RIGHAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		SURFACE WATER DEPTH 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						
2625	2,623.8	0.6	6	7	7											
	2,621.9	2.5	7	8	8											
2620	2,619.4	5.0	4	6	9											
	2,616.9	7.5	10	10	8											
2615	2,614.4	10.0	7	7	10											
2610	2,609.4	15.0	6	6	8											
2605	2,604.4	20.0	12	15	23											

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi										
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)									
BORING NO. RW8_3		STATION 38+83		OFFSET 26 ft RT		ALIGNMENT -RW8-										
COLLAR ELEV. 2,627.4 ft		TOTAL DEPTH 21.5 ft		NORTHING 665,498		EASTING 818,099										
DRILL RIGHAMMER EFF./DATE GTC CME550X 9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER L. Wanstrath		START DATE 01/27/21		COMP. DATE 01/27/21		SURFACE WATER DEPTH 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						
2630	2,627.4	0.0														
	2,626.8	0.6	10	10	8											
2625	2,624.9	2.5	8	7	6											
	2,622.4	5.0	9	9	11											
2620	2,619.9	7.5	7	8	9											
	2,617.4	10.0	8	8	9											
2615	2,612.4	15.0	8	8	8											
2610	2,607.4	20.0	12	13	12											

NCDOT BORE DOUBLE B3186_GEO_SPT.GPJ NC_DOT.GDT 5/26/21

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_2		STATION 39+37		OFFSET 26 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,630.5 ft		TOTAL DEPTH 21.5 ft		NORTHING 665,477		EASTING 818,051								
DRILL RIG/HAMMER EFF./DATE GTC/CME550X/9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/26/21		COMP. DATE 01/27/21		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				
2635														
2630	2,629.9	0.6	11	12	10									2,630.5 GROUND SURFACE 0.0 2,629.9 0.6
	2,628.0	2.5	8	12	17									2,628.0 ROADWAY EMBANKMENT 2.5 Medium dense, gray and brown, SAND and GRAVEL (A-1-b)
2625	2,625.5	5.0	9	15	16									RESIDUAL Very stiff to hard, brown, silty, fine to coarse sandy CLAY (A-6)(2), micaceous, saprolitic
	2,623.0	7.5	11	16	21									
2620	2,620.5	10.0	15	17	21									
2615	2,615.5	15.0	6	9	9									
2610	2,610.5	20.0	8	7	11									
														Boring Terminated at Elevation 2,609.0 ft in CLAY

WBS 38330.1.FS1		TIP B-3186 / B-5898		COUNTY HAYWOOD		GEOLOGIST N. Yacobi								
SITE DESCRIPTION Retaining Wall No. 8 from -DET01_EB- STA 34+83.83 to 29+30.48							GROUND WTR (ft)							
BORING NO. RW8_1		STATION 39+89		OFFSET 25 ft RT		ALIGNMENT -RW8-								
COLLAR ELEV. 2,633.3 ft		TOTAL DEPTH 21.5 ft		NORTHING 665,458		EASTING 818,003								
DRILL RIG/HAMMER EFF./DATE GTC/CME550X/9083			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER L. Wanstrath		START DATE 01/26/21		COMP. DATE 01/26/21		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				
2635														
2630	2,632.7	0.6	10	11	10									2,633.3 GROUND SURFACE 0.0 2,632.7 0.6
	2,630.8	2.5	8	6	8									2,631.3 ROADWAY EMBANKMENT 2.0 Medium dense, gray and brown, silty GRAVEL (A-1-b)
	2,628.3	5.0	7	9	10									2,629.3 RESIDUAL 4.0 Medium dense, tan and brown, silty SAND (A-2-4), micaceous
2625	2,625.8	7.5	5	8	6									Stiff to hard, brown, tan and white, SILT (A-4), with trace sand, micaceous, saprolitic
	2,623.3	10.0	4	12	15									
2620	2,618.3	15.0	12	17	23									
2615	2,613.3	20.0	9	10	11									
														Boring Terminated at Elevation 2,611.8 ft in SILT

NCDOT BORE DOUBLE B3186_GEO_SPT.GPJ NC_DOT.GDT 5/26/21