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REFERENCE: I-5710

PROJECT: 50125

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

**STRUCTURE**  
**SUBSURFACE INVESTIGATION**

COUNTY WAKE  
PROJECT DESCRIPTION WESTBOUND RAMPS ALONG  
I-540 AT SR 1839 (LEESVILLE ROAD), NC 50  
(CREEDMOOR ROAD), SR 1005 (SIX FORKS ROAD),  
AND SR 2000 (FALLS OF NEUSE ROAD)  
SITE DESCRIPTION WESTBOUND RAMP ALONG I-540  
AND SR 2000 (FALLS OF NEUSE ROAD)

**CONTENTS**

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2	LEGEND
3	SITE PLAN/PROFILE
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N.C.	I-5710	1	4

**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.

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PERSONNEL

ALEXANDER, M. J.  
EKLUND, M. A.  
CORY, K. W.

INVESTIGATED BY TERRACON CONSULTANTS  
DRAWN BY FIELDS, W. D.  
CHECKED BY ALEXANDER, M. J.  
SUBMITTED BY TERRACON CONSULTANTS  
DATE MAY 2016



DocuSigned by:  
Matthew J. Alexander 10/2016  
AC113DDE6101413  
SIGNATURE DATE

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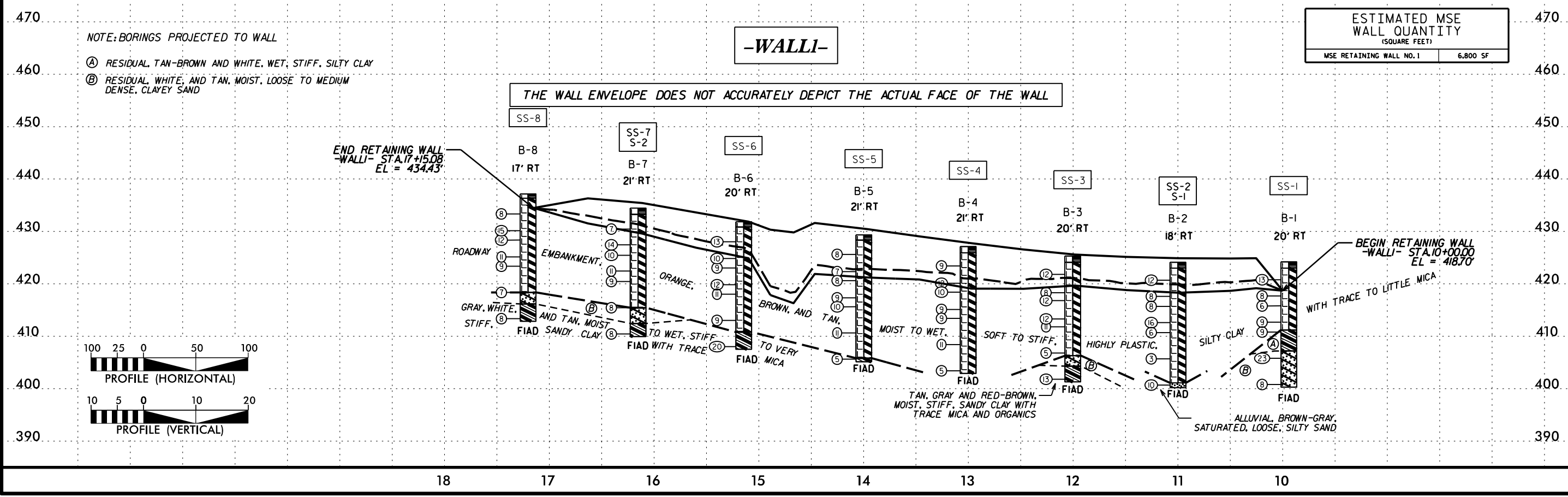
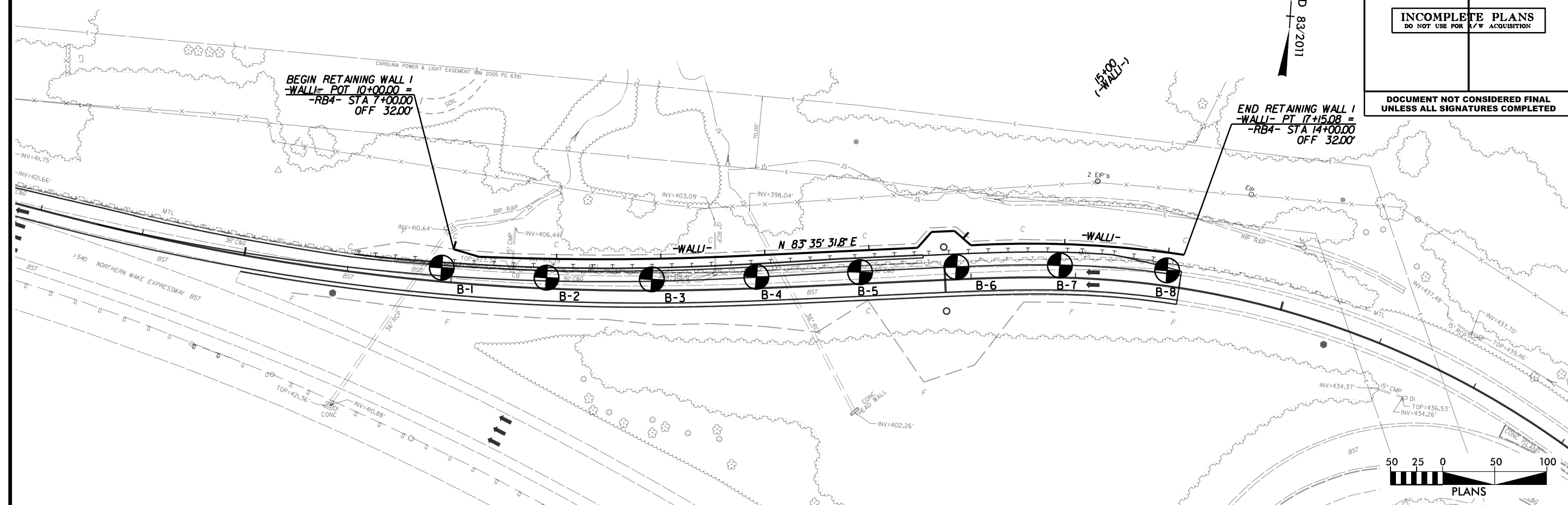




# RETAINING WALL DETAIL -WALL1-

PROJECT REFERENCE NO.	SHEET NO.
1-5710	3
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION	
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NAD 83/2011



### SOIL LABORATORY TESTING SUMMARY

**PROJECT NUMBER:** 50125.1.FS1

**ID (TIP):** I-5710

**COUNTY:** Wake

**DESCRIPTION:** Retaining Wall 1 along Ramp -RB4- from SR 2000 (Falls of Neuse Road) to Westbound I-540

Boring No.	Sample No.	Alignment	Station	Offset (feet)	Depth Interval (feet)	AASHTO Class.	L.L.	P.I.	% by Weight				% Retained #4 Sieve	% Passing (sieves)			% Moisture	% Organic
									Coarse Sand	Fine Sand	Silt	Clay		#10	#40	#200		
B-1	SS-1	-WALL1-	10+00	13 RT	10.5 - 12.0	A-7-6 (24)	63	37	8.2	26.9	16.5	48.4	2	97	92	67	31.5	-
B-2	SS-2	-WALL1-	11+00	18 RT	7.4 - 8.9	A-7-6(24)	64	39	6.7	31.3	13.6	48.4	1	98	95	65	29.0	-
B-3	SS-3	-WALL1-	12+00	19 RT	11.0 - 12.5	A-7-5 (26)	74	39	12.5	20.7	12.2	54.6	3	93	85	66	32.8	-
B-4	SS-4	-WALL1-	13+00	21 RT	7.7 - 9.2	A-7-6 (15)	55	26	8.0	29.9	19.4	42.7	5	92	88	63	27.4	-
B-5	SS-5	-WALL1-	14+00	21 RT	12.7 - 14.2	A-7-6 (23)	64	41	11.1	28.0	11.7	49.2	1	95	88	61	29.6	-
B-6	SS-6	-WALL1-	15+15	21 RT	22.8 - 24.3	A-6 (3)	38	25	13.8	54.6	7.5	24.1	4	96	93	36	17.0	-
B-7	SS-7	-WALL1-	16+15	21 RT	6.0 - 7.5	A-7-6 (25)	66	42	7.3	28.0	16.2	48.5	5	94	90	64	28.8	-
B-8	SS-8	-WALL1-	17+20	17 RT	11.0 - 12.5	A-7-6 (14)	55	30	13.2	33.6	11.4	41.8	2	95	88	55	21.4	-
B-2	S-1	-WALL1-	11+00	18 RT	3.0 - 9.0	A-7-5 (8)	50	16	11.5	32.1	25.5	30.9	7	93	87	57	30.5	-
B-7	S-2	-WALL1-	16+15	21 RT	3.0 - 8.0	A-7-6 (12)	51	22	10.7	28.6	18.5	42.2	6	94	88	60	28.2	-

S-1 AND S-2 TESTED BY GEOTECHNICS.

*Stephanie H. Huffman*

Certified Lab Technician Signature

114-01-1203  
Certification Number