

REFERENCE: 250008

PROJECT: 41665

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY CUMBERLAND
 PROJECT DESCRIPTION DIVISION 6 - I-95 BUSINESS
AND US 301 ROADWAY IMPROVEMENTS

SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER
I-95 BUSINESS LOOP SOUTHBOUND LANE

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	LEGEND
3	SITE PLAN
4-5	CROSS SECTIONS
6-9	BORE LOGS
10	SITE PHOTOGRAPHS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	41665	1	10

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

WERITZ, M. A.

FRAWLEY, M. H.

TURNAGE, J. R.

RIGGS, JR., A. F.

RIST, S. A.

HOEVEN, J. H.

INVESTIGATED BY TERRACON CONSULTANTS

DRAWN BY FIELDS, W. D.

CHECKED BY RIGGS, JR., A. F.

SUBMITTED BY TERRACON CONSULTANTS

DATE OCTOBER 2017

Prepared in the Office of:

Terracon
 Consulting Engineers & Scientists
 2401 BRENTWOOD ROAD, SUITE 107
 RALEIGH, NORTH CAROLINA 27604
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 NC REGISTERED FIRM: F-0869



DocuSigned by:

Abner Riggs

11/9/2017

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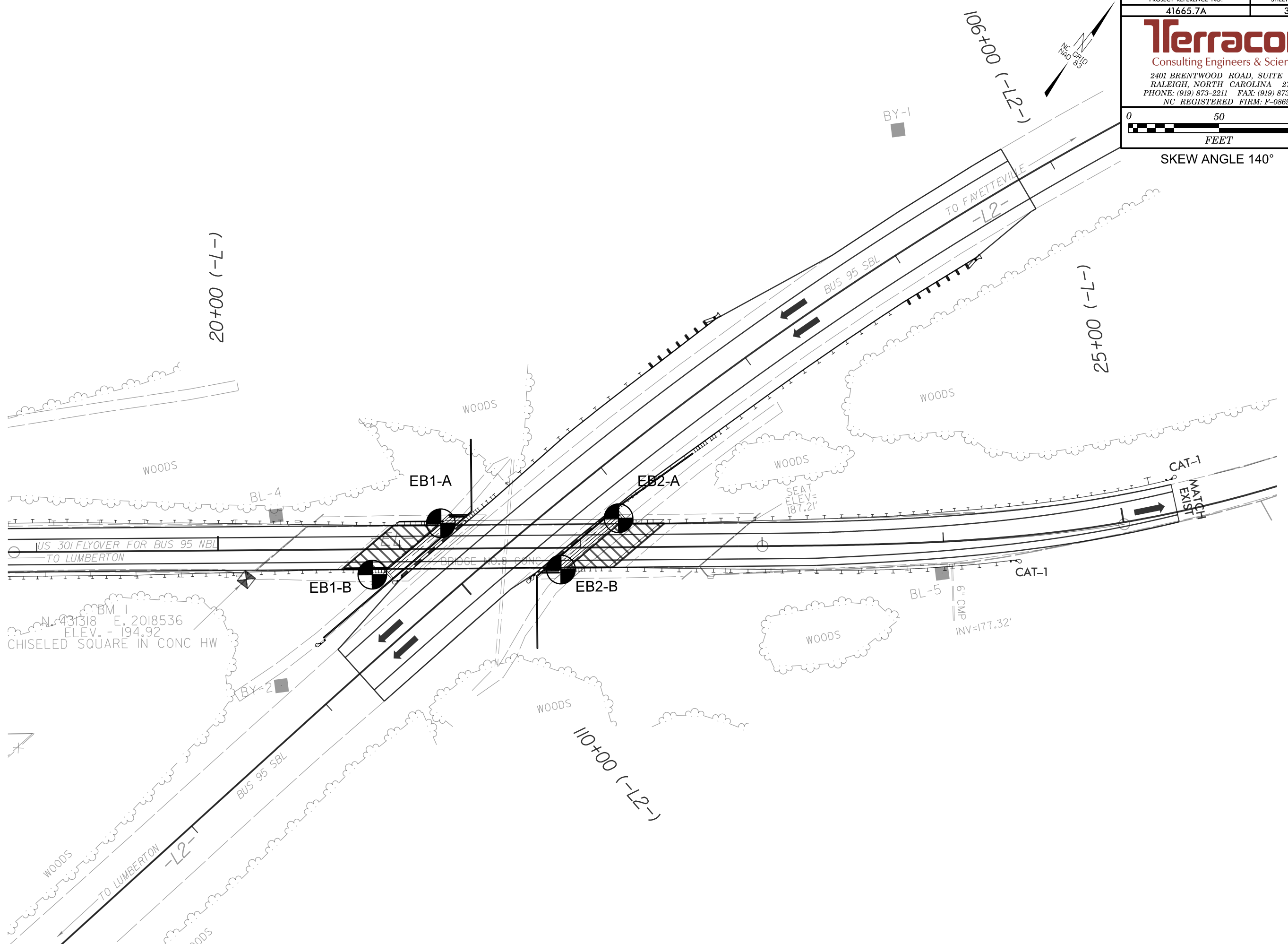
SIGNATURE

DATE

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

PROJECT REFERENCE NO. 41665.7A	SHEET NO. 3
Terracon	
Consulting Engineers & Scientists	
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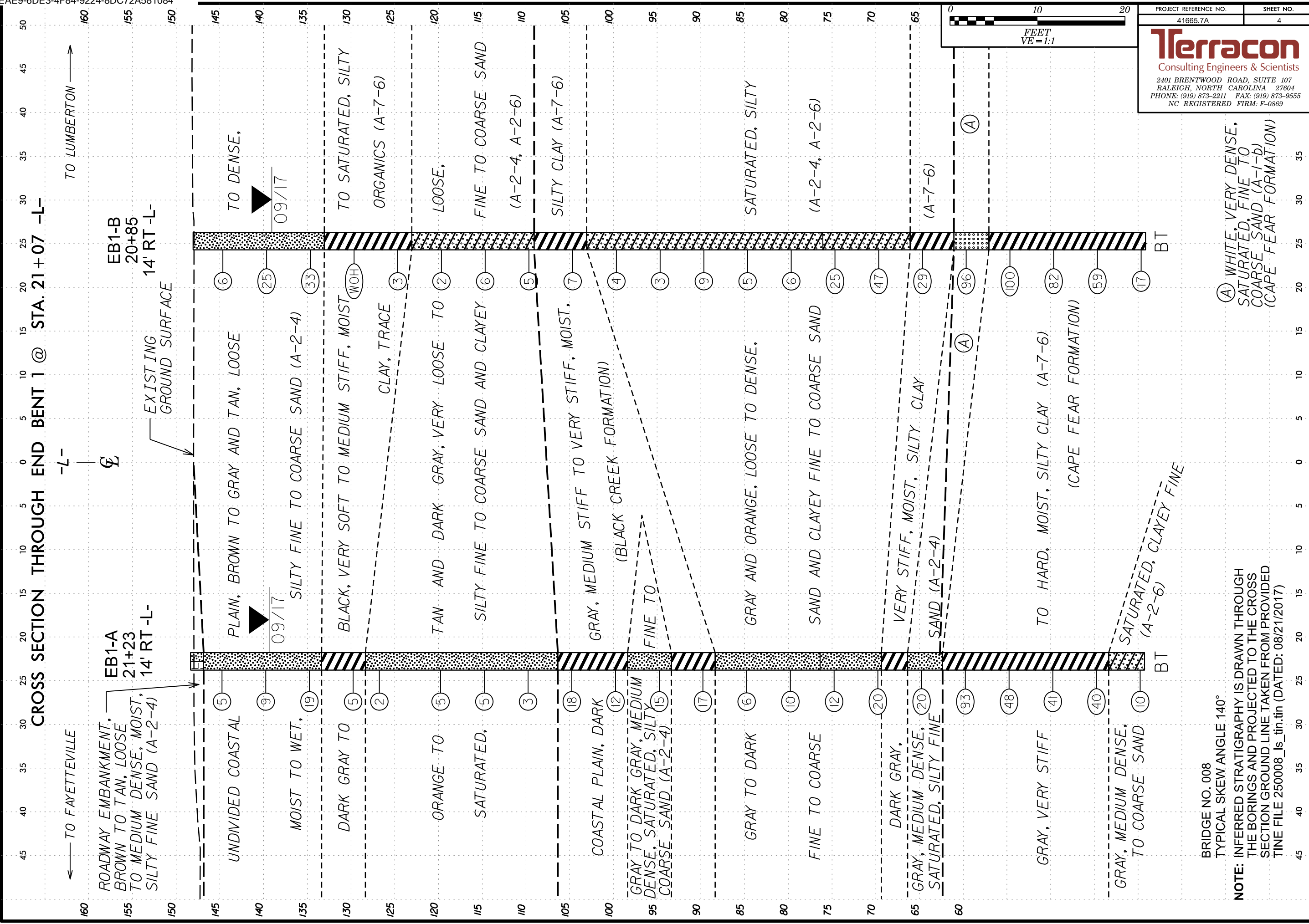
SKWEV ANGLE 140°



BM 1
N. 431318 E. 2018536
ELEV. = 194.92
CHISELED SQUARE IN CONC HW

BL-5
6" CMP
INV=177.32'

SEAT
ELEV =
187.21'



PROJECT REFERENCE NO. 41665.7A	SHEET NO. 4
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CROSS SECTION THROUGH END BENT 1 @ STA. 21+07 -L-

← TO FAYETTEVILLE

TO LUMBERTON →

ROADWAY EMBANKMENT, EB1-A
BROWN TO TAN, LOOSE TO MEDIUM DENSE, MOIST, SILTY FINE SAND (A-2-4)

ROADWAY EMBANKMENT, EB1-B
20+85
14' RT -L-

EXISTING GROUND SURFACE

UNDIVIDED COASTAL

PLAIN, BROWN TO GRAY AND TAN, LOOSE

MOIST TO WET,

SILTY FINE TO COARSE SAND (A-2-4)

DARK GRAY TO

BLACK, VERY SOFT TO MEDIUM STIFF, MOIST, CLAY, TRACE

ORANGE TO

TAN AND DARK GRAY, VERY LOOSE TO

SATURATED,

SILTY FINE TO COARSE SAND AND CLAYEY

COASTAL PLAIN, DARK

GRAY, MEDIUM STIFF TO VERY STIFF, MOIST, (BLACK CREEK FORMATION)

GRAY TO DARK GRAY, MEDIUM DENSE, SATURATED, SILTY COARSE SAND (A-2-4)

GRAY TO DARK

GRAY AND ORANGE, LOOSE TO DENSE,

FINE TO COARSE

SAND AND CLAYEY FINE TO COARSE SAND

DARK GRAY,

VERY STIFF, MOIST, SILTY CLAY

GRAY, MEDIUM DENSE, SATURATED, SILTY FINE

SAND (A-2-4)

GRAY, VERY STIFF

TO HARD, MOIST, SILTY CLAY (A-7-6)

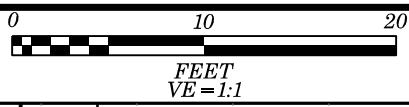
GRAY, MEDIUM DENSE, TO COARSE SAND

SATURATED, CLAYEY FINE (A-2-6)

BRIDGE NO. 008
TYPICAL SKEW ANGLE 140°

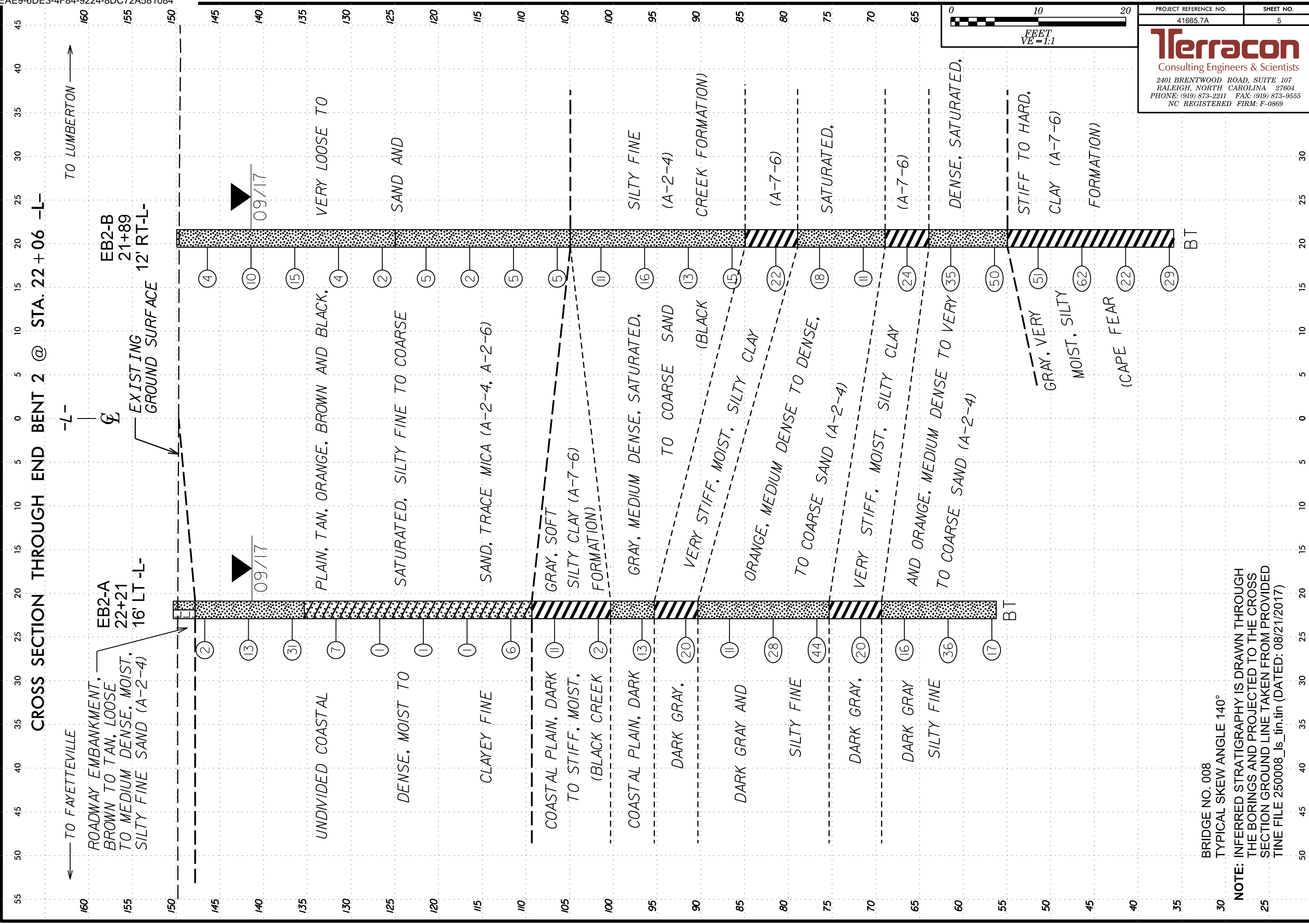
NOTE: INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS AND PROJECTED TO THE CROSS SECTION GROUND LINE TAKEN FROM PROVIDED TINE FILE 250008_ls_tin.tin (DATED: 08/21/2017)

(A) WHITE, VERY DENSE, SATURATED, FINE TO COARSE SAND (A-1-b) (CAPE FEAR FORMATION)



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GEOTECHNICAL BORING REPORT

BORE LOG

WBS 41665.7A		TIP 250008		COUNTY CUMBERLAND		GEOLOGIST FRAWLEY, M. H.									
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE							GROUND WTR (ft)								
BORING NO. EB1-A		STATION 21+23		OFFSET 14 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 173.8 ft		TOTAL DEPTH 109.1 ft		NORTHING 431,408		EASTING 2,018,602									
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER TURNAGE, J. R.		START DATE 09/15/17		COMP. DATE 09/15/17		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					
175														173.8 GROUND SURFACE 0.0	
	171.2	2.6	2	2	3								M	172.3 ROADWAY EMBANKMENT 1.5	
170														UNDIVIDED COASTAL PLAIN 5	
	166.2	7.6	3	4	5									BROWN TO GRAY, SILTY FINE TO COARSE SAND	
165															
	161.2	12.6	7	7	12										
160															
	156.2	17.6	WOH	2	3										
155															
	153.2	20.6	WOH	1	1										
150															
	146.2	27.6		1	2	3									
145															
	141.2	32.6	WOH	2	3										
140															
	136.2	37.6		2	2	1									
135															
	131.2	42.6		4	6	12									
130															
	126.2	47.6		5	6	6									
125															
	121.2	52.6		5	7	8									
120															
	116.2	57.6		4	8	9									
115															
	111.2	62.6		3	3	3									
110															
	106.2	67.6		3	5	5									
105															
	101.2	72.6		10	7	5									
100															
	96.2	77.6		8	8	12									
95															

WBS 41665.7A		TIP 250008		COUNTY CUMBERLAND		GEOLOGIST FRAWLEY, M. H.									
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE							GROUND WTR (ft)								
BORING NO. EB1-A		STATION 21+23		OFFSET 14 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 173.8 ft		TOTAL DEPTH 109.1 ft		NORTHING 431,408		EASTING 2,018,602									
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER TURNAGE, J. R.		START DATE 09/15/17		COMP. DATE 09/15/17		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					
95															
	91.2	82.6	8	9	11										
90															
	86.2	87.6	25	47	46										
85															
	81.2	92.6	10	18	30										
80															
	76.2	97.6	13	18	23										
75															
	71.2	102.6	13	18	22										
70															
	66.2	107.6	4	4	6										
65															

NCDOT BORE DOUBLE 70175152_GEO_BRDG008.GPJ_NC_DOT.GDT 10/17/17

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 41665.7A		TIP 250008		COUNTY CUMBERLAND		GEOLOGIST FRAWLEY, M. H.										
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE							GROUND WTR (ft)									
BORING NO. EB1-B		STATION 20+85		OFFSET 14 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 173.5 ft		TOTAL DEPTH 108.9 ft		NORTHING 431,362		EASTING 2,018,590										
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER TURNAGE, J. R.		START DATE 09/16/17		COMP. DATE 09/16/17		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						
175																
170	171.1	2.4	3	3	3								M		173.5	0.0
165	166.1	7.4	6	11	14											
160	161.1	12.4	12	16	17								W		158.5	15.0
155	156.1	17.4	WOH	WOH	WOH								M			
150	151.1	22.4	WOH	1	2								Sat.		148.5	25.0
145	146.1	27.4	WOH	1	1								Sat.			
140	141.1	32.4	2	3	3								Sat.			
135	136.1	37.4	1	2	3								Sat.		134.5	39.0
130	131.1	42.4	2	3	4								M		128.5	45.0
125	126.1	47.4	2	2	2								Sat.			
120	121.1	52.4	WOH	1	2								Sat.			
115	116.1	57.4	4	5	4								Sat.			
110	111.1	62.4	2	2	3								Sat.			
105	106.1	67.4	3	3	3								Sat.			
100	101.1	72.4	12	12	13								Sat.		101.5	72.0
95	96.1	77.4	15	25	22								Sat.			

WBS 41665.7A		TIP 250008		COUNTY CUMBERLAND		GEOLOGIST FRAWLEY, M. H.										
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE							GROUND WTR (ft)									
BORING NO. EB1-B		STATION 20+85		OFFSET 14 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 173.5 ft		TOTAL DEPTH 108.9 ft		NORTHING 431,362		EASTING 2,018,590										
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER TURNAGE, J. R.		START DATE 09/16/17		COMP. DATE 09/16/17		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						
95																
90	91.1	82.4	14	14	15								M		91.5	82.0
85	86.1	87.4	21	46	50								Sat.		86.5	87.0
80	81.1	92.4	22	42	58								M		82.5	91.0
75	76.1	97.4	27	46	36								M			
70	71.1	102.4	16	23	36								M			
65	66.1	107.4	8	7	10								M		64.6	108.9

NCDOT BORE DOUBLE 70175152_GEO_BRDGO08.GPJ_NC_DOT.GDT 10/17/17

Match Line

Boring Terminated at Elevation 64.6 ft IN
COASTAL PLAIN (SILTY CLAY)
(CAPE FEAR FORMATION)

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 41665.7A	TIP 250008	COUNTY CUMBERLAND	GEOLOGIST FRAWLEY, M. H.												
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE			GROUND WTR (ft)												
BORING NO. EB2-A	STATION 22+21	OFFSET 16 ft LT	ALIGNMENT -L-												
COLLAR ELEV. 174.4 ft	TOTAL DEPTH 94.1 ft	NORTHING 431,470	EASTING 2,018,678												
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary	HAMMER TYPE Automatic												
DRILLER TURNAGE, J. R.		START DATE 09/13/17	COMP. DATE 09/13/17												
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 ELEV. (ft) DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
175															174.4 GROUND SURFACE 0.0
	171.8	2.6	1	1	1								M		171.9 ROADWAY EMBANKMENT TAN TO BROWN SILTY FINE SAND 2.5
170															UNDIVIDED COASTAL PLAIN TAN TO ORANGE, SILTY FINE TO COARSE SAND
	166.8	7.6	6	6	7										
165															
	161.8	12.6	13	12	19								Sat.		
160															
	156.8	17.6	3	4	3										159.4 BLACK, CLAYEY FINE SAND, TRACE MICA 15.0
155															
	151.8	22.6	WOH	1	0										
150															
	146.8	27.6	WOH	WOH	1										
145															
	141.8	32.6	WOH	1	0										
140															
	136.8	37.6	1	1	5										
135															
	131.8	42.6	4	4	7										133.4 DARK GRAY, SILTY CLAY (BLACK CREEK FORMATION) 41.0
130															
	126.8	47.6	2	1	1										124.4 DARK GRAY, SILTY FINE TO COARSE SAND 50.0
125															
	121.8	52.6	8	7	6										119.4 DARK GRAY, SILTY CLAY 55.0
120															
	116.8	57.6	5	9	11										114.4 DARK GRAY, SILTY FINE TO COARSE SAND 60.0
115															
	111.8	62.6	3	4	7										
110															
	106.8	67.6	10	12	16										
105															
	101.8	72.6	12	19	25										
100															
	96.8	77.6	8	9	11										99.4 DARK GRAY, SILTY CLAY 75.0
95															

NCDOT BORE DOUBLE 70175152 GEO_BRDG008.GPJ NC_DOT.GDT 10/17/17

WBS 41665.7A	TIP 250008	COUNTY CUMBERLAND	GEOLOGIST FRAWLEY, M. H.												
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE			GROUND WTR (ft)												
BORING NO. EB2-A	STATION 22+21	OFFSET 16 ft LT	ALIGNMENT -L-												
COLLAR ELEV. 174.4 ft	TOTAL DEPTH 94.1 ft	NORTHING 431,470	EASTING 2,018,678												
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary	HAMMER TYPE Automatic												
DRILLER TURNAGE, J. R.		START DATE 09/13/17	COMP. DATE 09/13/17												
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 ELEV. (ft) DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
95															
	91.8	82.6	6	8	8										93.4 DARK GRAY, SILTY CLAY (continued) 81.0 DARK GRAY, SILTY FINE TO COARSE SAND
90															
	86.8	87.6	26	20	16										
85															
	81.8	92.6	5	6	11										80.3 Boring Terminated at Elevation 80.3 ft IN COASTAL PLAIN (SILTY SAND) (CAPE FEAR FORMATION) 94.1

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 41665.7A		TIP 250008		COUNTY CUMBERLAND		GEOLOGIST FRAWLEY, M. H.								
SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE						GROUND WTR (ft)								
BORING NO. EB2-B		STATION 21+89		OFFSET 12 ft RT		ALIGNMENT -L-								
COLLAR ELEV. 174.0 ft		TOTAL DEPTH 114.0 ft		NORTHING 431,428		EASTING 2,018,670								
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER TURNAGE, J. R.		START DATE 09/14/17		COMP. DATE 09/14/17		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	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
175														174.0 GROUND SURFACE
	171.5	2.5	1	1	3								M	UNDIVIDED COASTAL PLAIN TAN AND ORANGE TO BROWN, SILTY FINE SAND, TRACE WOOD FRAGMENTS @ 17.5'
170														
	166.5	7.5	3	4	6									
165														
	161.5	12.5	7	8	7								Sat.	
160														
	156.5	17.5	4	2	2									
155														
	151.5	22.5	1	1	1									
150														
	146.5	27.5	1	2	3									149.0 GRAY-TAN, SILTY FINE TO COARSE SAND, TRACE MICA
145														
	141.5	32.5	WOH	1	1									
140														
	136.5	37.5	2	2	3									
135														
	131.5	42.5	2	2	3									
130														
	126.5	47.5	4	5	6									128.0 COASTAL PLAIN DARK GRAY, SILTY FINE TO COARSE SAND (BLACK CREEK FORMATION)
125														
	121.5	52.5	4	6	10									
120														
	116.5	57.5	6	7	6									
115														
	111.5	62.5	4	5	10									
110														
	106.5	67.5	6	10	12									109.0 DARK GRAY, SILTY CLAY
105														
	101.5	72.5	5	8	10									103.0 ORANGE, SILTY FINE TO COARSE SAND
100														
	96.5	77.5	6	5	6									
95														

NCDOT BORE DOUBLE 70175152_GEO_BRDG008.GPJ_NC_DOT.GDT 10/17/17

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SITE DESCRIPTION BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SOUTHBOUND LANE						GROUND WTR (ft)								
BORING NO. EB2-B		STATION 21+89		OFFSET 12 ft RT		ALIGNMENT -L-								
COLLAR ELEV. 174.0 ft		TOTAL DEPTH 114.0 ft		NORTHING 431,428		EASTING 2,018,670								
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 99% 03/09/2017		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER TURNAGE, J. R.		START DATE 09/14/17		COMP. DATE 09/14/17		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	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
95														93.0 ORANGE, SILTY FINE TO COARSE SAND (continued)
	91.5	82.5	8	10	14								M	81.0 DARK GRAY, SILTY CLAY
90														
	86.5	87.5	8	14	21								Sat.	88.0 ORANGE, SILTY COARSE SAND
85														
	81.5	92.5	14	22	28								Sat.	79.0 GRAY, SILTY CLAY (CAPE FEAR FORMATION)
80														
	76.5	97.5	16	22	29									
75														
	71.5	102.5	25	30	32									
70														
	66.5	107.5	10	11	11									
65														
	61.5	112.5	10	15	14									
60														60.0 Boring Terminated at Elevation 60.0 ft IN COASTAL PLAIN (SILTY CLAY) (CAPE FEAR FORMATION)

SITE PHOTOGRAPHS
BRIDGE NO. 008 ON US 301 OVER I-95 BUSINESS LOOP SBL



PHOTOGRAPH NO. 1: WEST APPROACH TO END BENT NO. 1 ON
-L- ALIGNMENT, LOOKING EAST



PHOTOGRAPH NO. 3: ON -L2- ALIGNMENT, NORTH OF -L- ALIGNMENT,
LOOKING SOUTH



PHOTOGRAPH NO. 2: ON -L2- ALIGNMENT, SOUTH OF -L- ALIGNMENT,
LOOKING NORTH



PHOTOGRAPH NO. 4: EAST APPROACH TO END BENT NO.2 ON
-L- ALIGNMENT, LOOKING WEST