

REFERENCE: I-5883

PROJECT: 53083

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY HARNETT
PROJECT DESCRIPTION IMPROVE I-95 INTERCHANGES
AT SR 1808 (JONESBORO RD.) AND SR 1709 (HODGES
CHAPEL RD.)
SITE DESCRIPTION BRIDGE NO. 80 ON -YI- (SR 1808)
OVER -L- (I-95)

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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5883	1	15

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

E.G. BLONSHINE

M.S. HAYES

G.H. GOSLIN

T.J. WHITE

K.S. HARDEE

INVESTIGATED BY J.R. SWARTLEY

DRAWN BY J.R. SWARTLEY

CHECKED BY S.S. LANEY

SUBMITTED BY S.S. LANEY

DATE FEBRUARY 2018

 3201 SPRING FOREST ROAD
RALEIGH, NC 27616
(919) 872-2660



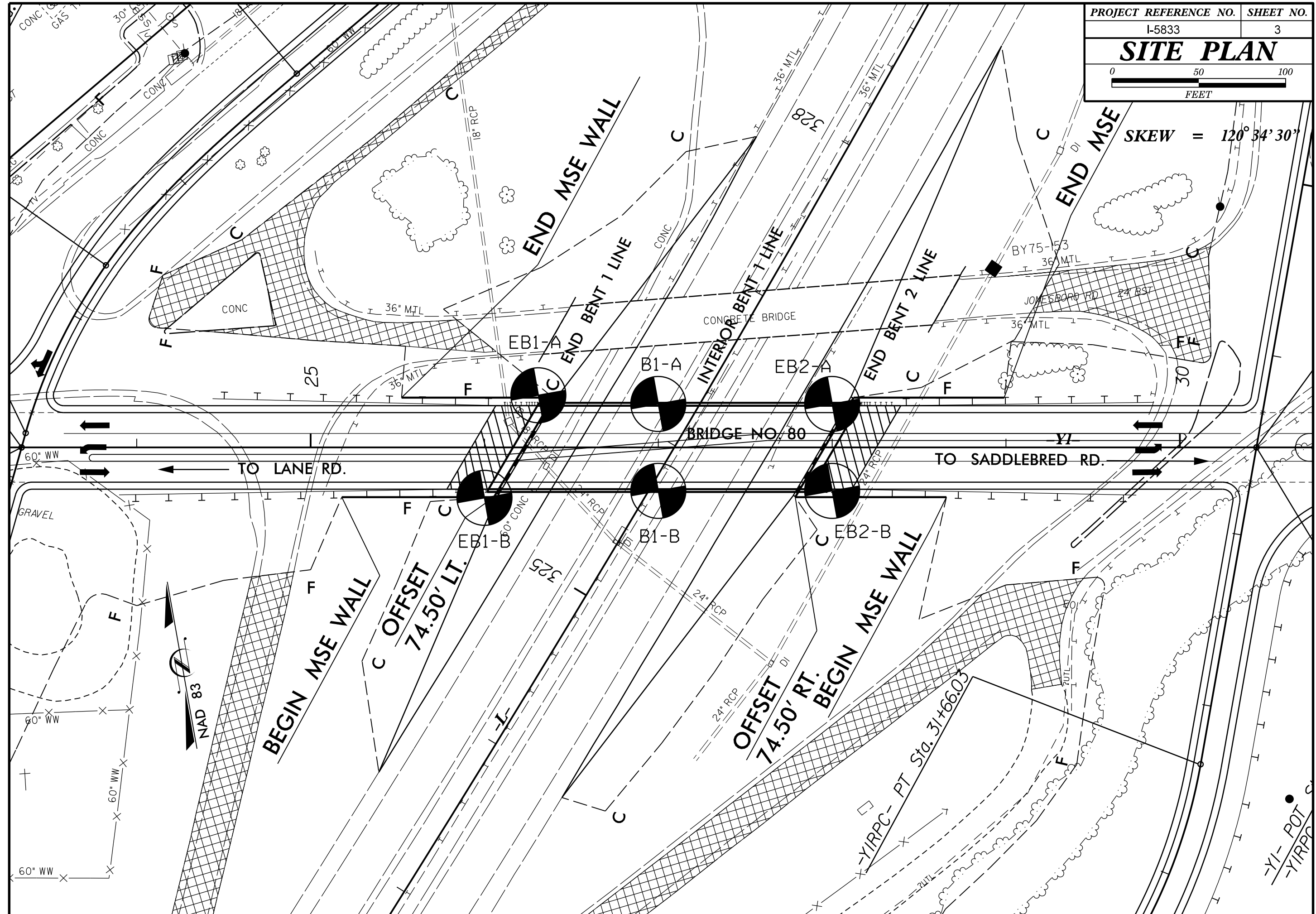
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Jarett R. Swartley 7/23/2018
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

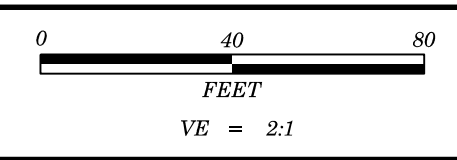
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS**

SOIL DESCRIPTION										GRADATION										ROCK DESCRIPTION										TERMS AND DEFINITIONS																																																																																																																																																																															
<p>SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, <i>VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6</i></p>										<p>WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.</p>										<p>HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED, AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK. ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:</p>										<p>ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA. ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC. ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE. CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES. FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL. FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. FORMATION (FM) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD. JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT. LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS. MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS. STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.</p>																																																																																																																																																																															
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										PERCENTAGE OF MATERIAL										COASTAL PLAIN SEDIMENTARY ROCK (CP)										COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.																																																																																																																																																																															
										GROUND WATER										WEATHERING										WEATHERING																																																																																																																																																																															
										MISCELLANEOUS SYMBOLS										FRESH										ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.																																																																																																																																																																															
										RECOMMENDATION SYMBOLS										VERY SLIGHT (IV SLI.)										ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN. CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.																																																																																																																																																																															
										ABBREVIATIONS										SLIGHT (SLI.)										ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.																																																																																																																																																																															
										EQUIPMENT USED ON SUBJECT PROJECT										MODERATE (MOD.)										SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.																																																																																																																																																																															
										PLASTICITY										MODERATELY SEVERE (MOD. SEV.)										ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. IF TESTED, WOULD YIELD SPT REFUSAL																																																																																																																																																																															
										COLOR										SEVERE (SEV.)										ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF																																																																																																																																																																															
										TEXTURE OR GRAIN SIZE										VERY SEVERE (IV SEV.)										ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										COMPLETE										ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.																																																																																																																																																																															
										PLASTICITY										ROCK HARDNESS										VERY HARD										CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.																																																																																																																																																																					
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										SOIL MOISTURE - CORRELATION OF TERMS										MODERATELY HARD										CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										MEDIUM HARD										CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PIECES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.																																																																																																																																																																															
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										SOIL MOISTURE - CORRELATION OF TERMS										FRACATURE SPACING										BEDDING																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										VERY WIDE										VERY THICKLY BEDDED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										WIDE										THICKLY BEDDED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										MODERATELY CLOSE										THINLY BEDDED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										CLOSE										VERY THINLY BEDDED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										VERY CLOSE										THICKLY LAMINATED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATION										INDURATION																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										EXTREMELY INDURATED										FRIBLE																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										MODERATELY INDURATED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										INDURATED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										EXTREMELY INDURATED																																																																																																																																																																															
										SOIL MOISTURE - CORRELATION OF TERMS										INDURATED										SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.																																																																																																																																																																															

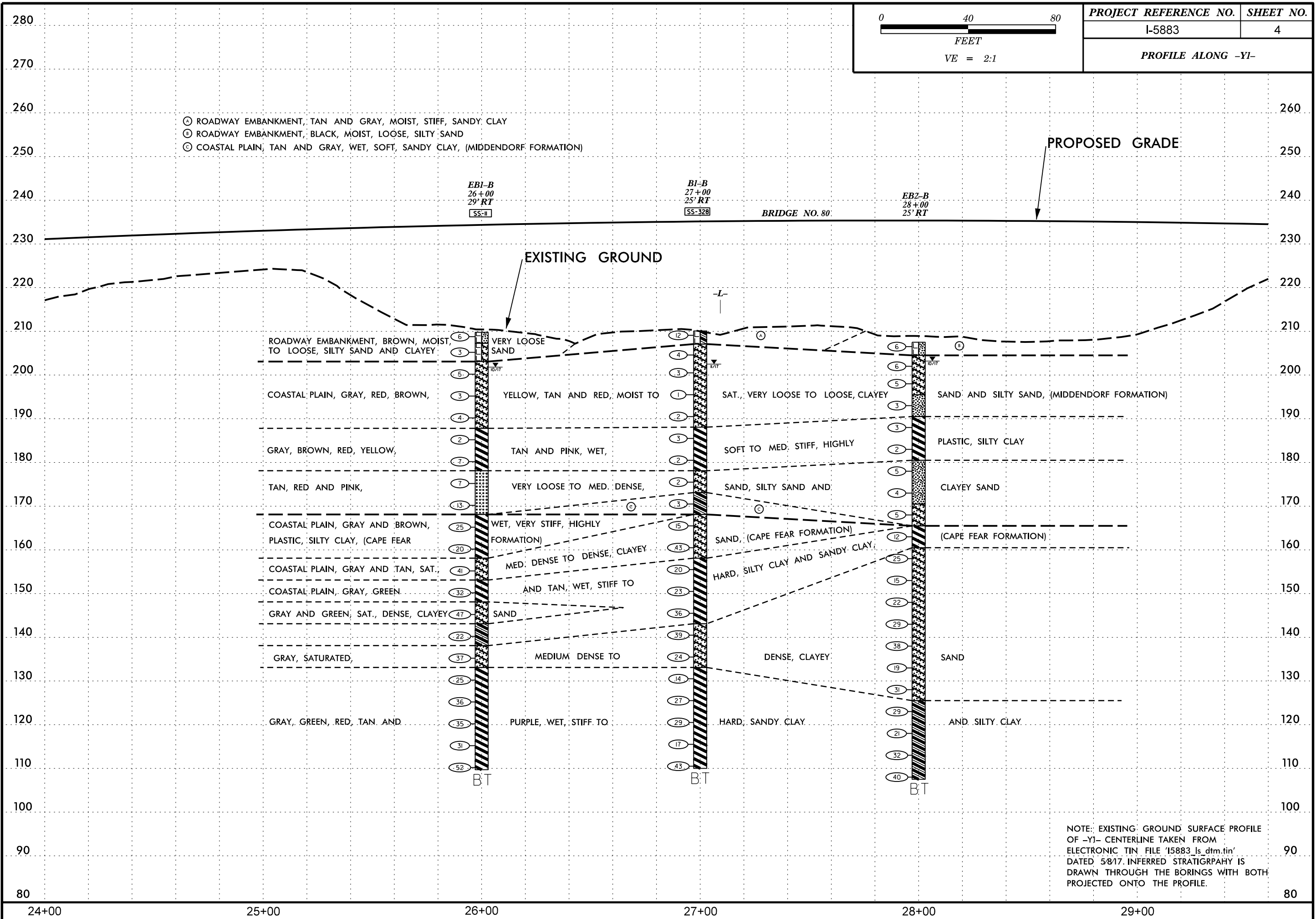
SKEW = 120° 34' 30"



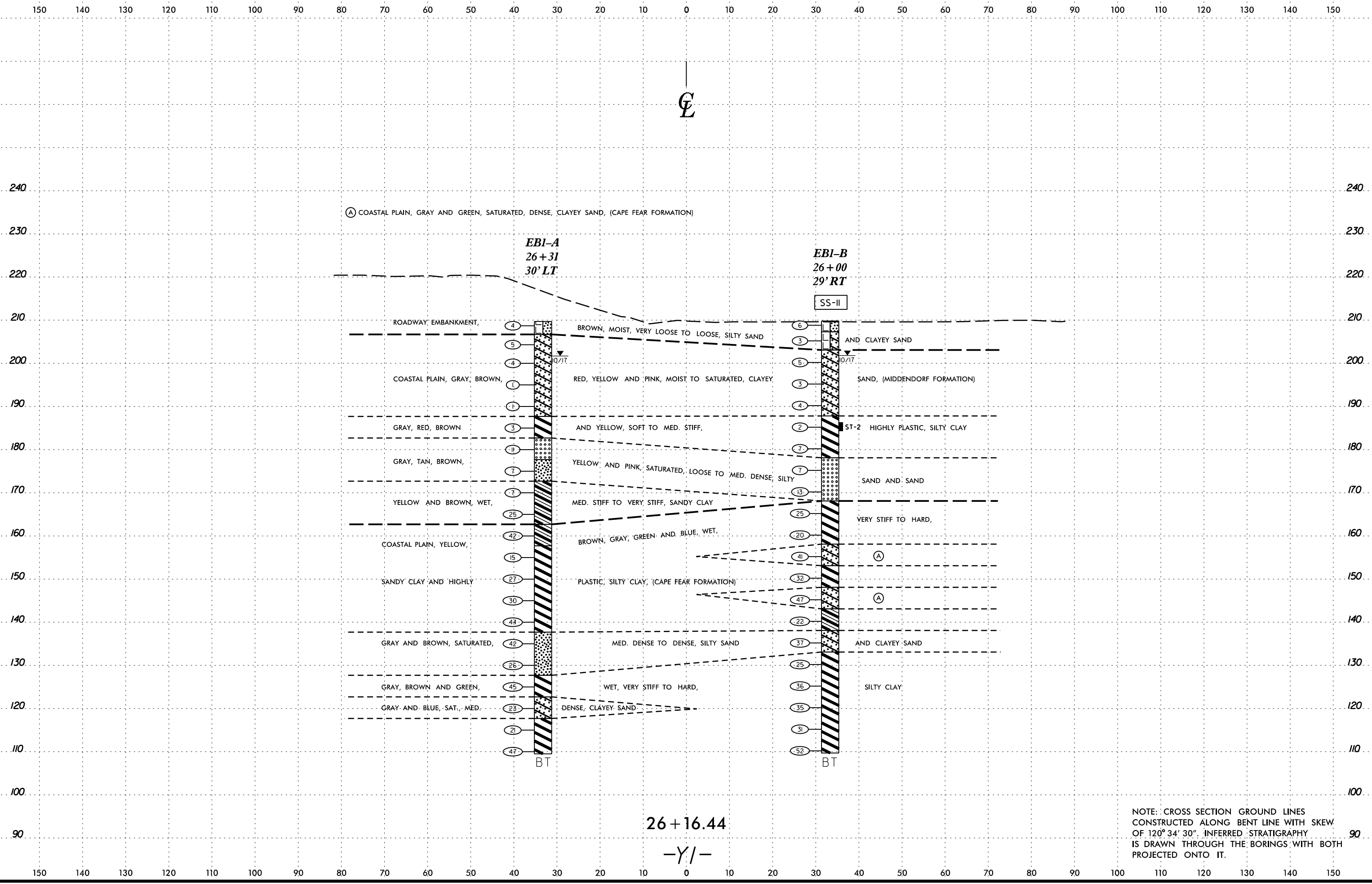
5/14/99



PROJECT REFERENCE NO.	SHEET NO.
I-5883	4
PROFILE ALONG -Y1-	



NOTE: EXISTING GROUND SURFACE PROFILE OF -Y1- CENTERLINE TAKEN FROM ELECTRONIC TIN FILE 'I5883_Is_dtm.tin' DATED 5/8/17. INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ONTO THE PROFILE.



(A) COASTAL PLAIN, GRAY AND GREEN, SATURATED, DENSE, CLAYEY SAND, (CAPE FEAR FORMATION)

NOTE: CROSS SECTION GROUND LINES CONSTRUCTED ALONG BENT LINE WITH SKEW OF 120° 34' 30". INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ONTO IT.

DATE: 6/23/16
DRAWN BY: [unreadable]
CHECKED BY: [unreadable]
SCALE: AS SHOWN

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Goslin, G.H.									
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)								
BORING NO. EB1-A		STATION 26+31		OFFSET 30 ft LT		ALIGNMENT -Y1-									
COLLAR ELEV. 209.7 ft		TOTAL DEPTH 100.2 ft		NORTHING 570,707		EASTING 2,126,942									
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER White, T.J.		START DATE 10/12/17		COMP. DATE 10/13/17		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					
210	209.7	0.0	2	2	2								M	GROUND SURFACE	0.0
													M	ROADWAY EMBANKMENT BROWN, SILTY SAND	3.0
205	205.3	4.4	3	2	3								M	COASTAL PLAIN GRAY, BROWN, RED, YELLOW AND PINK, CLAYEY SAND (MIDDENDORF FORMATION)	
200	201.0	8.7	2	2	2								Sat.		
195	196.0	13.7	1	0	1								Sat.		
190	191.0	18.7	WOH	WOH	1								Sat.		
185	186.0	23.7	WOH	1	2								W	GRAY, RED AND BROWN, SILTY CLAY	22.0
180	181.0	28.7	WOH	5	6								Sat.	GRAY, TAN, BROWN AND YELLOW, SAND AND SILTY SAND	27.0
175	176.0	33.7	3	3	4								Sat.		32.0
170	171.0	38.7	3	3	4								W	YELLOW AND BROWN, SANDY CLAY	37.0
165	166.0	43.7	9	9	16								W		47.0
160	161.0	48.7	6	14	28								W	COASTAL PLAIN YELLOW, BROWN, GRAY, GREEN AND BLUE, SANDY CLAY AND SILTY CLAY (CAPE FEAR FORMATION)	52.0
155	156.0	53.7	6	7	8								W		
150	151.0	58.7	9	12	15								W		
145	146.0	63.7	9	13	17								W		
140	141.0	68.7	15	17	27								W		
135	136.0	73.7	14	19	23								Sat.		72.0
130	131.0	78.7	9	14	12								Sat.	GRAY AND BROWN, SILTY SAND	

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Goslin, G.H.									
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)								
BORING NO. EB1-A		STATION 26+31		OFFSET 30 ft LT		ALIGNMENT -Y1-									
COLLAR ELEV. 209.7 ft		TOTAL DEPTH 100.2 ft		NORTHING 570,707		EASTING 2,126,942									
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic										
DRILLER White, T.J.		START DATE 10/12/17		COMP. DATE 10/13/17		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					
130															
125	126.0	83.7	11	17	28								W	GRAY AND BROWN, SILTY SAND (continued) GRAY AND BROWN, SILTY CLAY	82.0
120	121.0	88.7	5	10	13								Sat.	GRAY AND BLUE, CLAYEY SAND	87.0
115	116.0	93.7	8	9	12								W	GRAY AND GREEN, SILTY CLAY	92.0
110	111.0	98.7	12	20	27								W		100.2
Boring Terminated at Elevation 109.5 ft IN HARD SILTY CLAY (COASTAL PLAIN)															

NCDOT BORE DOUBLE I5833_GEO_BRDG0080_SPT_BORINGS.GPJ NC_DOT_GDT 7/23/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Hayes, M.S.										
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)									
BORING NO. B1-A		STATION 27+00		OFFSET 25 ft LT		ALIGNMENT -Y1-										
COLLAR ELEV. 210.3 ft		TOTAL DEPTH 100.3 ft		NORTHING 570,690		EASTING 2,127,009										
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 11/01/17		COMP. DATE 11/02/17		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						
215																
210	210.3	0.0	3	4	5											210.3 GROUND SURFACE 0.0
205	205.3	5.0	2	2	2											207.3 ROADWAY EMBANKMENT BROWN AND TAN, CLAYEY SAND 3.0
200	201.5	8.8	1	2	3											198.3 COASTAL PLAIN GRAY, TAN AND RED, SANDY CLAY (MIDDENDORF FORMATION) 12.0
195	196.5	13.8	WOH	1	1											198.3 TAN AND RED, CLAYEY SAND 12.0
190	191.5	18.8	1	0	1											188.3 GRAY, RED AND TAN, SILTY CLAY AND SANDY CLAY 22.0
185	186.5	23.8	WOH	1	2											183.3 27.0
180	181.5	28.8	2	1	2											179.3 TAN AND RED, SAND 31.0
175	176.5	33.8	3	3	4											173.3 TAN AND GRAY, SANDY CLAY 37.0
170	171.5	38.8	3	2	3											168.3 COASTAL PLAIN TAN AND GRAY, SILTY CLAY (CAPE FEAR FORMATION) 42.0
165	166.5	43.8	3	6	7											
160	161.5	48.8	12	23	38											
155	156.5	53.8	9	12	19											
150	151.5	58.8	9	11	14											
145	146.5	63.8	16	21	31											148.3 GRAY, CLAYEY SAND 62.0
140	141.5	68.8	11	11	13											143.3 GRAY, SILTY CLAY 67.0
135	136.5	73.8	16	16	12											138.3 GRAY, CLAYEY SAND 72.0

NCDOT BORE DOUBLE I5833_GEO_BRDG0080_SPT_BORINGS.GPJ NC_DOT_GDT 7/23/18

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Hayes, M.S.										
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)									
BORING NO. B1-A		STATION 27+00		OFFSET 25 ft LT		ALIGNMENT -Y1-										
COLLAR ELEV. 210.3 ft		TOTAL DEPTH 100.3 ft		NORTHING 570,690		EASTING 2,127,009										
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 11/01/17		COMP. DATE 11/02/17		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						
135																
130	131.5	78.8	11	18	24											133.3 GRAY, CLAYEY SAND (continued) 77.0
125	126.5	83.8	12	14	17											
120	121.5	88.8	9	12	16											
115	116.5	93.8	8	12	14											
110	111.5	98.8	12	14	23											110.0 Boring Terminated at Elevation 110.0 ft IN HARD SILTY CLAY (COASTAL PLAIN) 100.3

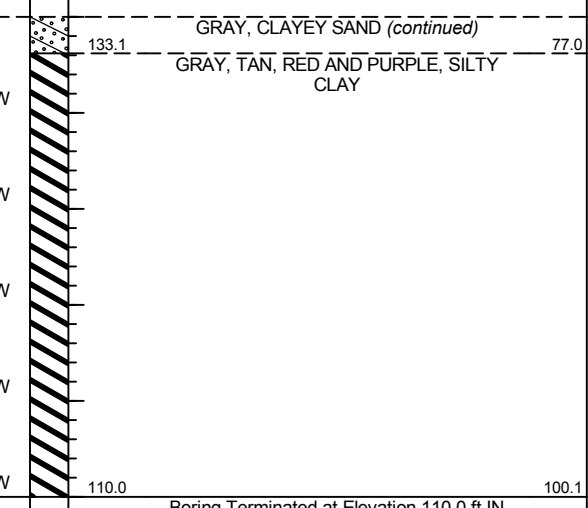
GEOTECHNICAL BORING REPORT

BORE LOG

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Hayes, M.S.										
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)									
BORING NO. B1-B		STATION 27+00		OFFSET 25 ft RT		ALIGNMENT -Y1-										
COLLAR ELEV. 210.1 ft		TOTAL DEPTH 100.1 ft		NORTHING 570,641		EASTING 2,127,000										
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 11/02/17		COMP. DATE 11/03/17		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						
215																
210	210.1	0.0													210.1	GROUND SURFACE
205	205.6	4.5	2	5	7										207.1	ROADWAY EMBANKMENT TAN AND GRAY, SANDY CLAY
200	201.5	8.6	1	2	2											COASTAL PLAIN GRAY, TAN AND RED, CLAYEY SAND (MIDDENDORF FORMATION)
195	196.5	13.6	1	0	1											
190	191.5	18.6	1	1	1											
185	186.5	23.6	WOH	1	2											
180	181.5	28.6	WOH	1	1											
175	176.5	33.6	1	1	1											
170	171.5	38.6	4	1	2											
165	166.5	43.6	4	6	9											
160	161.5	48.6	5	16	27											
155	156.5	53.6	4	7	13											
150	151.5	58.6	4	7	16											
145	146.5	63.6	2	16	20											
140	141.5	68.6	10	16	23											
135	136.5	73.6	7	8	16											

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Hayes, M.S.										
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)									
BORING NO. B1-B		STATION 27+00		OFFSET 25 ft RT		ALIGNMENT -Y1-										
COLLAR ELEV. 210.1 ft		TOTAL DEPTH 100.1 ft		NORTHING 570,641		EASTING 2,127,000										
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 11/02/17		COMP. DATE 11/03/17		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						
135																
130	131.5	78.6	4	5	9											
125	126.5	83.6	10	11	16											
120	121.5	88.6	10	12	17											
115	116.5	93.6	6	7	10											
110	111.5	98.6	12	18	25											

NCDOT BORE DOUBLE I5833_GEO_BRDG0080_SPT_BORINGS.GPJ NC_DOT_GDT 7/23/18



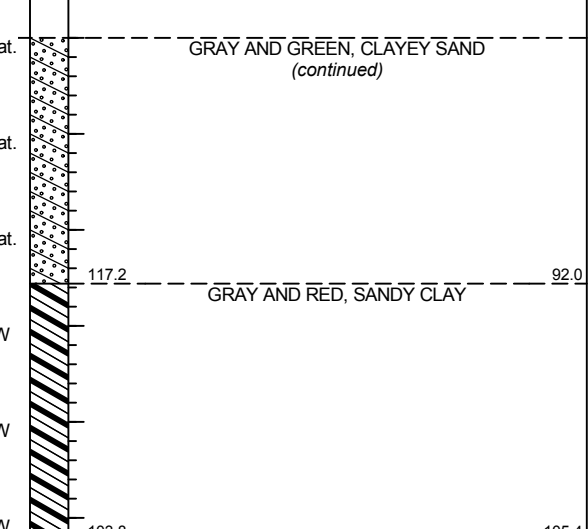
GEOTECHNICAL BORING REPORT

BORE LOG

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Blonshine, E.G.											
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)										
BORING NO. EB2-A		STATION 28+00		OFFSET 25 ft LT		ALIGNMENT -Y1-											
COLLAR ELEV. 209.2 ft		TOTAL DEPTH 105.4 ft		NORTHING 570,672		EASTING 2,127,108											
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 10/16/17		COMP. DATE 10/17/17		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			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)		
210	209.2	0.0														209.2	0.0
			4	4	3												
205	204.9	4.3	WOH			2	2										
200	200.3	8.9	1	2	2												
195	195.3	13.9	2	1	2												
190	190.3	18.9	1	0	1												
185	185.3	23.9	1	1	0												
180	180.3	28.9	3	2	2												
175	175.3	33.9	4	4	3												
170	170.3	38.9	3	3	4												
165	165.3	43.9	3	4	4												
160	160.3	48.9	3	5	7												
155	155.3	53.9	4	7	9												
150	150.3	58.9	4	6	9												
145	145.3	63.9	14	13	16												
140	140.3	68.9	9	7	11												
135	135.3	73.9	8	10	12												
130	130.3	78.9															

NCDOT BORE DOUBLE I5833 GEO_BRDG0080_SPT_BORINGS.GPJ NC_DOT_GDT_7/23/18

WBS 53083.1.1		TIP I-5883		COUNTY HARNETT		GEOLOGIST Blonshine, E.G.											
SITE DESCRIPTION BRIDGE NO. 80 ON -Y1- (SR 1808) OVER -L- (I-95)							GROUND WTR (ft)										
BORING NO. EB2-A		STATION 28+00		OFFSET 25 ft LT		ALIGNMENT -Y1-											
COLLAR ELEV. 209.2 ft		TOTAL DEPTH 105.4 ft		NORTHING 570,672		EASTING 2,127,108											
DRILL RIG/HAMMER EFF./DATE SME9563 CME-550X 88% 8/10/2017				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER White, T.J.		START DATE 10/16/17		COMP. DATE 10/17/17		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			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)		
130																	
			6	10	12												
125	125.3	83.9	7	11	21												
120	120.3	88.9	8	9	10												
115	115.3	93.9	10	12	15												
110	110.3	98.9	19	24	30												
105	105.3	103.9	13	16	22												



Boring Terminated at Elevation 103.8 ft IN HARD SANDY CLAY (COASTAL PLAIN)

SITE PHOTOGRAPH

Bridge No. 80 on -Y1- (SR 1808) over -L- (I-95)



Looking West towards End Bent 1