

PROJECT: 17BP.4.R.91

REFERENCE: B-4840

CONTENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	SITE PLAN
4	PROFILE
5-6	BORE LOG(S)
7	SOIL TEST RESULTS
8	SITE PHOTOGRAPH

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

STRUCTURE

SUBSURFACE INVESTIGATION

COUNTY WAYNE

PROJECT DESCRIPTION BRIDGE NO. 264 ON SR 1117

(THUNDER SWAMP RD.) OVER THUNDER SWAMP

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4840	1	8

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

NCDOT PERSONNEL

-

-

-

-

-

-

INVESTIGATED BY NCDOT

DRAWN BY J.L. STONE PG

CHECKED BY S. HUDSON PG

SUBMITTED BY J.L. STONE PG

DATE AUGUST 2018



SIGNATUREDATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

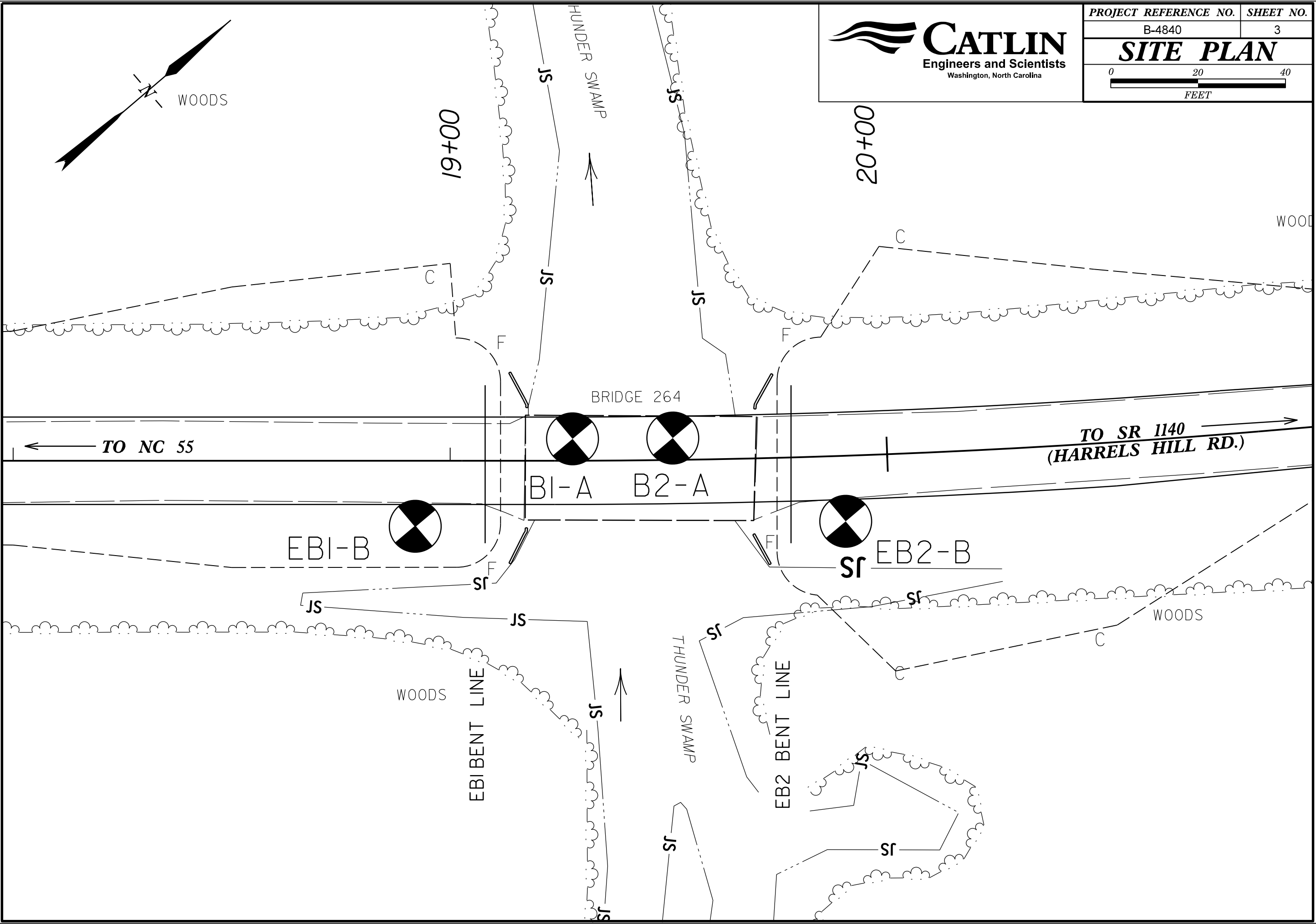
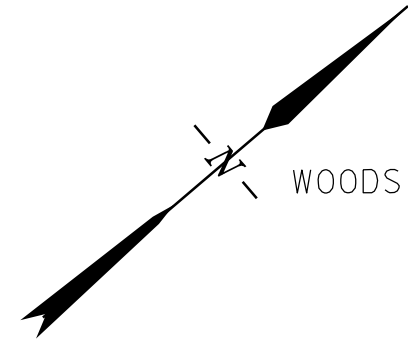
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

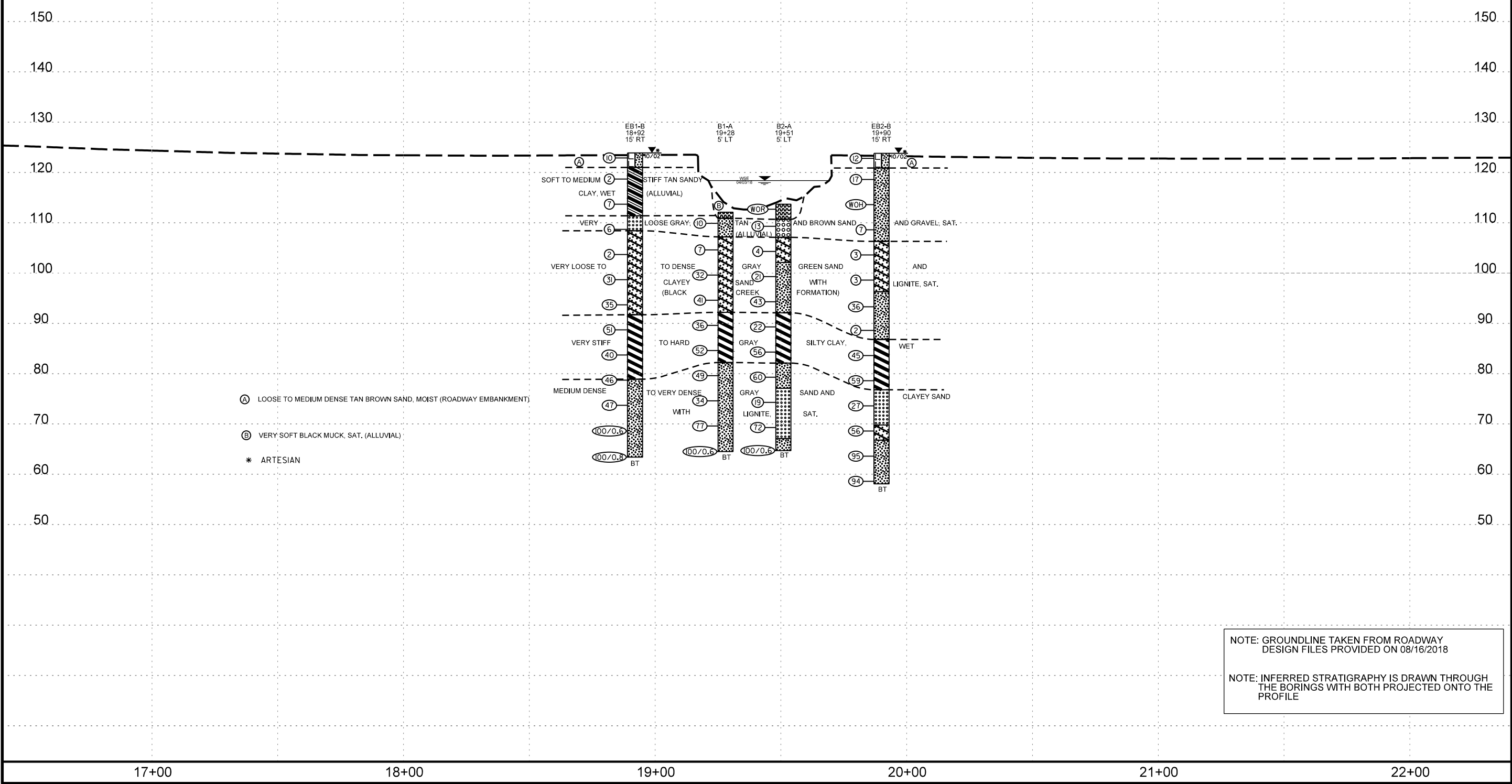
SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION										GRADATION										ROCK DESCRIPTION										TERMS AND DEFINITIONS									
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>										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.										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: WEATHERED ROCK (WR) CRYSTALLINE ROCK (CR) NON-CRYSTALLINE ROCK (NCR) COASTAL PLAIN SEDIMENTARY ROCK (CP)										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 DISLOGGED 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.									
SOIL LEGEND AND AASHTO CLASSIFICATION										MINERALOGICAL COMPOSITION										WEATHERING																			
GENERAL CLASS.										MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.										FRESH VERY SLIGHT (V SL.) SLIGHT (SL.) MODERATE (MOD.) MODERATELY SEVERE (MOD. SEV.) SEVERE (SEV.) VERY SEVERE (V SEV.) COMPLETE																			
SILT-CLAY MATERIALS (> 35% PASSING #200)										COMPRESSIBILITY										ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE. 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. 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. 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. 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. <i>IF TESTED, WOULD YIELD SPT REFUSAL</i> 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. <i>IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF</i> 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. <i>IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF</i> 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.																			
GRANULAR MATERIALS (< 35% PASSING #200)										PERCENTAGE OF MATERIAL																													
GROUP CLASS.										GROUND WATER																													
SYMBOL										MISCELLANEOUS SYMBOLS																													
Z PASSING #10 #40 #200										RECOMMENDATION SYMBOLS																													
MATERIAL PASSING #40 LL PI										ABBREVIATIONS																													
GROUP INDEX										EQUIPMENT USED ON SUBJECT PROJECT																													
USUAL TYPES OF MAJOR MATERIALS																																							
GEN. RATING AS SUBGRADE																																							
PI OF A-7-5 SUBGROUP IS < LL - 30; PI OF A-7-6 SUBGROUP IS > LL - 30																																							
CONSISTENCY OR DENSENESS																																							
PRIMARY SOIL TYPE																																							
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)																																							
GENERALLY SILT-CLAY MATERIAL (COHESIVE)																																							
TEXTURE OR GRAIN SIZE																																							
U.S. STD. SIEVE SIZE OPENING (MM)																																							
BOULDER (BLDR.) COBBLE (COB.) GRAVEL (GR.) COARSE SAND (CSE. SD.) FINE SAND (F SD.) SILT (SL.) CLAY (CL.)																																							
GRAIN SIZE MM IN.																																							
SOIL MOISTURE - CORRELATION OF TERMS																																							
SOIL MOISTURE SCALE (ATTERBERG LIMITS)																																							
FIELD MOISTURE DESCRIPTION																																							
GUIDE FOR FIELD MOISTURE DESCRIPTION																																							
LL LIQUID LIMIT																																							
PLASTIC RANGE (PI)																																							
PL PLASTIC LIMIT																																							
OM OPTIMUM MOISTURE SHRINKAGE LIMIT																																							
SL SHRINKAGE LIMIT																																							
PLASTICITY																																							
NON PLASTIC SLIGHTLY PLASTIC MODERATELY PLASTIC HIGHLY PLASTIC																																							
COLOR																																							
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.																																							



PROFILE THROUGH BORINGS PROJECTED ALONG -L-



PROJECT REFERENCE NO.	SHEET
B-4840	5

[illegible]

<i>PROJECT REFERENCE NO.</i>	<i>SHEET</i>
B-4840	6

WBS: 17BP.4.R.91			TIP: B-4840			COUNTY: WAYNE			GEOLOGIST: KEVIN B. MILLER					
SITE DESCRIPTION BRIDGE NO. 264 ON -L- (SR 1117) OVER THUNDER SWAMP AT -L- STA. 19+43									GROUND WTR (ft)					
BORING NO.: EB2-B			STATION: 19+90			OFFSET: 15 ft RT			ALIGNMENT: -L-			0 HR. N/A		
COLLAR ELEV.: 123.8 ft			TOTAL DEPTH: 65.7 ft			NORTHING: 531,973			EASTING: 2,266,308			24 HR. ARTESIAN		
DRILL RIG/HAMMER EFF./DATE: B-47						DRILL METHOD: Mud Rotary			HAMMER TYPE: MANUAL					
DRILLER: LWD			START DATE: 10/28/02			COMP. DATE: 10/29/02			SURFACE WATER DEPTH: N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. # RESULT	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
125														
	123.8	0.0	1	6	6	12	.	.	.	.				123.8 GROUND SURFACE 0.0
120	119.6	4.2	8	7	10	17	.	.	.	.	SS-22 A-2-4(0)			ROADWAY EMBANKMENT TAN BROWN SAND, MOIST 2.9
115	114.6	9.2	WOH	WOH	WOH	20	.	.	.	.	SS-23 A-2-4(0)			ALLUVIAL GRAY TAN AND BROWN SAND, SAT.
110	109.6	14.2	1	2	5	7	.	.	.	.	SS-24 A-2-4(0)			
105	104.6	19.2	1	1	2	3	.	.	.	.	SS-25 A-2-6(0)			COASTAL PLAIN GRAY GREEN SAND AND CLAYEY SAND WITH LIGNITE, SAT. (BLACK CREEK FORMATION)
100	99.6	24.2	0	1	2	3	.	.	.	.
95	94.6	29.2	7	14	22	36	.	.	.	.	SS-26 A-2-4(0)			
90	89.6	34.2	1	1	1	2	.	.	.	.
85	84.6	39.2	15	19	26	45	.	.	.	.	SS-27 A-7-6(0)	55%		GRAY SILTY CLAY, WET 37.0
80	79.6	44.2	11	18	41	59	.	.	.	.
75	74.6	49.2	4	10	17	27	.	.	.	.	SS-28 A-3(0)			GRAY SAND AND CLAYEY SAND WITH LIGNITE, SAT. 47.0
70	69.6	54.2	8	14	42	56	.	.	.	.	SS-29 A-2-6(1)			
65	64.6	59.2	17	32	63	95	.	.	.	.	SS-30 A-2-4(0)			
60	59.6	64.2	32	53	41	94	.	.	.	.				BORING TERMINATED AT ELEVATION 58.1 ft IN VERY DENSE SAND ARTESIAN HEAD ELEVATION = 124.6'

EB1-B SOIL TEST RESULTS															
SAMPLE NUMBER	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-14	15 ft RT	18+92	4.2 - 5.7	A-6(2)	33	14	22.8	40.3	8.7	28.2	100	90	41	-	-
SS-15	15 ft RT	18+92	14.2 - 15.5	A-3(0)	20	NP	54.6	36.6	0.7	8.1	83	60	9	-	-
SS-16	15 ft RT	18+92	19.2 - 20.7	A-2-6(0)	35	15	68.0	16.7	1.1	14.1	95	50	16	-	-
SS-17	15 ft RT	18+92	29.2 - 30.7	A-2-6(0)	33	13	49.2	19.8	12.9	18.1	76	52	25	-	-
SS-18	15 ft RT	18+92	34.2 - 35.7	A-7-6(22)	60	32	1.0	39.9	24.8	34.3	100	99	69	49	-
SS-19	15 ft RT	18+92	44.2 - 45.4	A-7-5(16)	55	25	14.7	27.6	27.4	30.2	100	96	66	-	-
SS-20	15 ft RT	18+92	49.2 - 50.7	A-2-4(0)	22	NP	52.0	32.6	6.4	9.1	100	87	18	-	-
SS-21	15 ft RT	18+92	59.2 - 60.5	A-2-4(0)	22	NP	50.8	39.5	4.6	5	100	81	12	-	-

B1-A SOIL TEST RESULTS															
SAMPLE NUMBER	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-8	5 ft LT	19+28	1.2 - 2.7	A-2-4(0)	21	NP	30.4	61.6	1.9	6	100	96	13	-	-
SS-9	5 ft LT	19+28	6.5 - 8.0	A-2-6(0)	36	14	59.5	19.8	4.6	16.1	94	55	20	-	-
SS-10	5 ft LT	19+28	16.5 - 18.0	A-2-6(0)	32	14	53.2	20.8	7.9	18.1	90	60	25	-	-
SS-11	5 ft LT	19+28	21.5 - 23.0	A-7-5(60)	97	64	1.8	27.4	24.4	46.4	100	99	83	52	-
SS-12	5 ft LT	19+28	31.5 - 33.0	A-2-4(0)	18	NP	64.4	28.0	3.5	4	100	81	11	-	-
SS-13	5 ft LT	19+28	41.5 - 43.0	A-2-4(0)	21	NP	65.5	23.7	4.7	6	100	74	12	-	-

B2-A SOIL TEST RESULTS															
SAMPLE NUMBER	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-1	5 ft LT	19+51	3.4 - 4.9	-	-	-	87.9	5.8	0.2	6	81	19	5	-	-
SS-2	5 ft LT	19+51	8.4 - 9.9	A-2-6(0)	36	14	59.7	21.0	7.3	12.1	96	56	20	-	-
SS-3	5 ft LT	19+51	13.4 - 14.9	A-2-4(0)	29	10	55.8	22.6	5.4	16.1	97	66	23	-	-
SS-4	5 ft LT	19+51	23.4 - 24.9	A-7-5(23)	60	30	6.7	28.2	22.8	42.3	96	93	73	54	-
SS-5	5 ft LT	19+51	33.4 - 34.9	A-2-4(0)	23	NP	43.8	39.7	6.5	10.1	100	90	20	-	-
SS-6	5 ft LT	19+51	38.4 - 39.9	A-3(0)	17	NP	75.9	18.3	0.7	5	100	74	6	-	-
SS-7	5 ft LT	19+51	48.4 - 49.0	A-2-4(0)	24	NP	44.2	42.8	5.9	7.1	100	89	14	-	-

EB2-B SOIL TEST RESULTS															
SAMPLE NUMBER	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-22	15 ft RT	19+90	4.2 - 5.7	A-2-4(0)	20	NP	19.7	66.6	5.7	8	100	94	20	-	-
SS-23	15 ft RT	19+90	9.2 - 10.7	A-2-4(0)	57	NP	16.9	59.8	15.3	8	100	92	27	-	-
SS-24	15 ft RT	19+90	14.2 - 15.7	A-2-4(0)	26	4	19.9	56.8	9.3	14	99	90	30	-	-
SS-25	15 ft RT	19+90	19.2 - 20.7	A-2-6(0)	35	16	61.4	21.3	9.3	8	98	59	19	-	-
SS-26	15 ft RT	19+90	29.2 - 30.7	A-2-4(0)	32	10	59.8	17.7	8.5	14	93	57	22	-	-
SS-27	15 ft RT	19+90	39.2 - 40.7	A-7-6(0)	52	25	2.6	35.3	22	40.1	100	99	71	55	-
SS-28	15 ft RT	19+90	49.2 - 50.7	A-3(0)	21	NP	73.2	19.0	2.8	5	100	75	8	-	-
SS-29	15 ft RT	19+90	54.2 - 55.7	A-2-6(1)	35	16	36.3	32.9	18.8	12	99	85	34	-	-
SS-30	15 ft RT	19+90	59.2 - 60.7	A-2-4(0)	21	NP	27.3	50.6	14.1	8	99	90	24	-	-

BRIDGE NO. 264 ON SR 1117 OVER THUNDER SWAMP



LOOKING EAST TOWARD END BENT 2