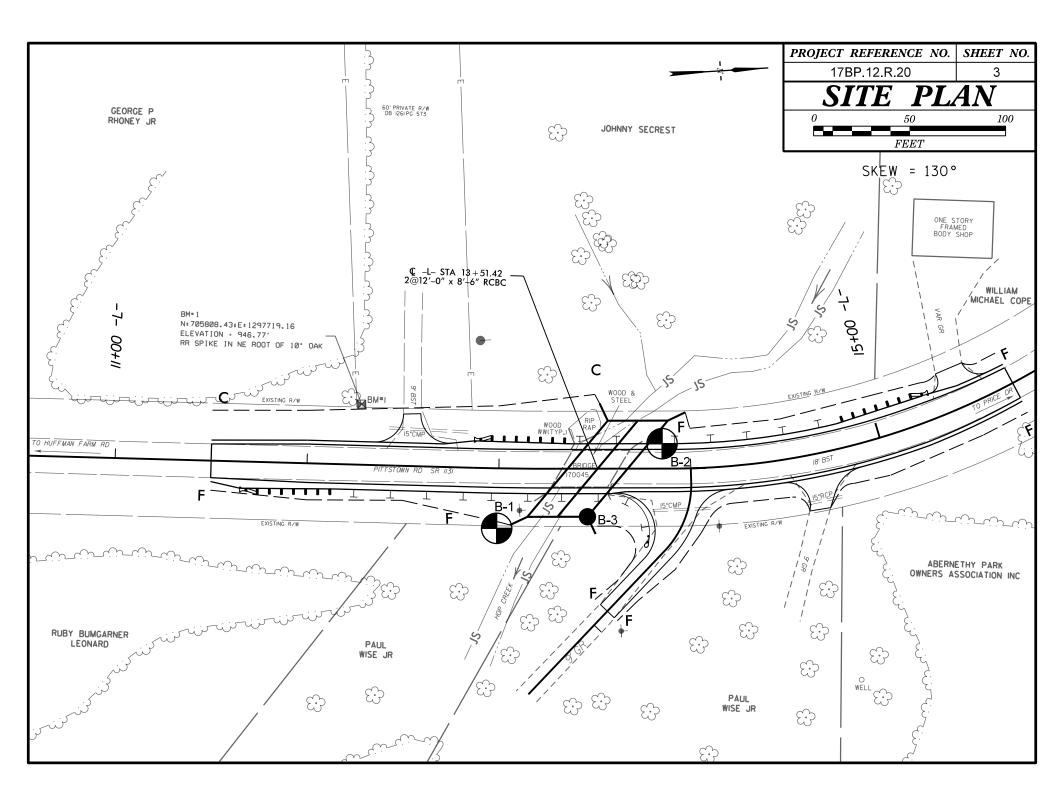


**REFERENCE: N/A** 

ROJECT: 17BP.12.R.2

	PROJECT REFERENCE NO. SHEET NO.								
	17BP.12.R.20 2								
NORTH CAROLINA DEPARTM DIVISION OF									
GEOTECHNICAL EN									
SUBSURFACE I	<b>NVESTIGATION</b>								
SOIL AND ROCK LEGEND, TERMS (PAGE )									
SOIL DESCRIPTION	GRADATION								
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	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.								
ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM DI506), SOLL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM, BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO LLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH	GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.								
AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, VERY STIFF.GRAY.SILTY CLAY.WOST WITH INTERBEDOED FINE SAND LWERS.HIGHLY PLASTIC.4-7-6	THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS:								
SOIL LEGEND AND AASHTO CLASSIFICATION	ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED. MINERALOGICAL COMPOSITION								
GENERAL GRANULAR MATERIALS SILT-CLAY MATERIALS ORGANIC MATERIALS LASS. ( ≤ 35% PASSING *200) (> 35% PASSING *200)	MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAQLIN, ETC, ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.								
GROUP         A-1         A-3         A-2         A-4         A-5         A-6         A-7         A-1, A-2         A-4, A-5           CLASS.         A-1-a         A-1-b         A-2-4         A-2-5         A-2-6         A-2-7         A-7, A-7, A-7, A-7, A-7, A-7, A-7, A-7,	ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.								
SYMBOL	SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50								
2. PASSING *10 50 MX GRANULAR SILT- MUCK,	HIGHLY COMPRESSIBLE LL > 50 PERCENTAGE OF MATERIAL								
*40 30 MX 50 MX 51 MN *200 15 MX 25 MX 10 MX 35 MX 35 MX 35 MX 35 MX 36 MN 36 MN 36 MN 36 MN	GRANULAR SILT - CLAY ORGANIC MATERIAL SOILS OTHER MATERIAL								
MATERIAL PASSING *40	TRACE OF ORGANIC MATTER 2 - 3½ 3 - 5½ TRACE 1 - 10% LITTLE ORGANIC MATTER 3 - 5½ 5 - 12½ LITTLE 10 - 20%								
LL – – 40 MX 41 MN 5ULLS WITH	MODERATELY ORGANIC 5 - 10% 12 - 20% SOME 20 - 35% HIGHLY ORGANIC > 10% > 20% HIGHLY 35% AND ABOVE								
GROUP INDEX         0         0         4         MX         8         MX         12         MX         16         MODERATE         OGGANIC         OGGANIC         OGGANIC         OGGANIC         SOILS         OUTSING         SOILS         OUTSING         OUTSING	GROUND WATER								
USUAL TYPES STONE FRAGS. FINE SILTY OR CLAYEY SILTY CLAYEY MATTER OF MAJOR GRAVEL, AND CAMP CRAVEL AND CAN SAND COLLS SOLLS	✓ WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING ✓ STATIC WATER LEVEL AFTER 24 HOURS								
MAILERIALS SANU	✓ STATIC WATER LEVEL AFTER <u>24</u> HOURS ✓ PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA								
AS SUBGRADE EXCELLENT TO GOUD FAIR TO POOR POOR POOR ONSULTABLE									
PI OF A-7-5 SUBGROUP IS $\leq$ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30 CONSISTENCY OR DENSENESS	MISCELLANEOUS SYMBOLS								
PRIMARY SOIL TYPE COMPACTNESS OR RANGE OF STANDARD RANGE OF UNCONFINED CONSISTENCY PENETRATION RESISTENCE COMPRESSIVE STRENGTH	ROADWAY EMBANKMENT (RE) 25/825 DIP & DIP DIRECTION								
UNSISTENCT (N-VALUE) (TONS/FT <sup>2</sup> )									
GENERALLY LOOSE 4 TO 10 GRANULAR MEDIUM DENSE 10 TO 30 N/O									
MATERIAL DENSE 30 TO 50 (NON-COHESIVE) VERY DENSE >50	ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT I AUGER BORING CONE PENETROMETE								
VERY SOFT         < 2         < 0.25           GENERALLY         SOFT         2 TO 4         0.25 TO 0.5	- INFERRED SOIL BOUNDARY - CORE BORING SOUNDING ROD								
GENERALLY         SDF1         2 10 4         0.25 10 0.5           SILT-CLAY         MEDIUM STIFF         4 T0 8         0.5 T0 1.0           MATERIAL         STIFF         8 T0 15         1 T0 2	TTEITE INFERRED ROCK LINE MUC MONITORING WELL TEST BORING WITH CORE								
Immediate         STIFF         0 10 13         110 2           (COHESIVE)         VERY STIFF         15 TO 30         2 TO 4           HARD         > 30         > 4	SPT N-VALUE								
TEXTURE OR GRAIN SIZE	RECOMMENDATION SYMBOLS								
U.S. STD. SIEVE SIZE 4 10 40 60 200 270 OPENING (MM) 4.76 2.00 0.42 0.25 0.075 0.053	UNDERCUT UNCLASSIFIED EXCAVATION - UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE ACCEPTABLE, BUT NOT TO BE								
BOULDER COBBLE GRAVEL COARSE FINE SILT CLAY	SHALLOW UNCLASSIFIED EXCAVATION - USED IN THE TOP 3 FEET OF ACCEPTABLE DEGRADABLE ROCK USED IN THE TOP 3 FEET OF								
(BLDR.) (CUB.) (GR.) (CSE. SD.) (F SD.) (SL.) (CL.)	ABBREVIATIONS								
GRAIN MM 305 75 2.0 0.25 0.05 0.005 SIZE IN. 12 3	AR - AUGER REFUSAL         MED MEDIUM         VST - VANE SHEAR TEST           BT - BORING TERMINATED         MICA MICACEOUS         WEA WEATHERED           CONDUCTORY         VEA WEATHERED         MICA MICACEOUS								
SOIL MOISTURE - CORRELATION OF TERMS	CL CLAY MOD MODERATELY $\gamma$ - UNIT WEIGHT CPT - CONE PENETRATION TEST NP - NON PLASTIC $\gamma_d$ - DRY UNIT WEIGHT CFE - COARPE								
SOIL MOISTURE SCALE FIELD MOISTURE (ATTERBERG LIMITS) DESCRIPTION GUIDE FOR FIELD MOISTURE DESCRIPTION	CSE COARSE ORG ORGANIC DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST SAMPLE ABBREVIATIONS DPT - DVMMLP PENETRATION TEST SAP - SAPON LITE SAP - SAPON LITE SAP								
- SATURATED - USUALLY LIQUID; VERY WET, USUALLY (SAT.) FROM BELOW THE GROUND WATER TABLE	OPT         DYNAMIC PENETRATION TEST         SAP SAPROLITIC         S - BULK           e         VOID RATIO         SD SAND, SANDY         SS - SPLIT SPOON           F         - FINE         SL SAID, SANDY         SS - SPLIT SPOON								
	FOSS FOSSILIFEROUS SLI SLIGHTLY RS - ROCK								
RANGE - WET - (W) SEMISULUI REQUIRES DATING TO	FRAC.         FRACTURED, FRACTURES         TCR         TRICONE         REFUSAL         RT         - RECOMPACTED         TRIXIA           FRAGS.         FRAGMENTS         W         MOISTURE <content< td="">         CBR         - CALIFORNIA         BEARING           HI.         HIGHLY         V         - VERY         RATIO         RATIO</content<>								
	EQUIPMENT USED ON SUBJECT PROJECT								
OM _ OPTIMUM MOISTURE _ MOIST - (M) _ SULLDENT ON NEAR OPTIMUM MOISTURE _ SULLDENT ON NEAR OPTIMUM MOISTURE _	DRILL UNITS:         ADVANCING TOOLS:         HAMMER TYPE:           CME-45C         CLAY BITS         X AUTOMATIC         MANUAL								
- DRY - (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE									
PLASTICITY	CME-55         8' HOLLOW AUGERS         -H								
PLASTICITY INDEX (PI)         DRY STRENGTH           NON PLASTIC         0-5         VERY LOW	CME-550     HARD FACED FINGER BITS								
SLIGHTLY PLASTIC 0-5 VERT LUW SLIGHTLY PLASTIC 6-15 SLIGHT MODERATELY PLASTIC 16-25 MEDIUM	VANE SHEAR TEST								
HIGHLY PLASTIC 26 OR MORE HIGH	PORTABLE HOIST X TRICONE 2 <sup>15</sup> / <sub>16</sub> STEEL TEETH HAND AUGER								
COLOR	X DIEDRICH D-50 TRICONE TUNGCARB. SOUNDING ROD								
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.									

			PROJECT REPERENCE NO.	SHEET NO.
			17BP.12.R.20	2A
	NORTH	CAROLINA DEPARTMI DIVISION OF	ENT OF TRANSPORTATION HIGHWAYS	
	GEO	TECHNICAL EN	GINEERING UNIT	
			<b>VESTIGATION</b> SYMBOLS, AND ABBREVIATION	
	SOIL AND I	(PAGE 2		45
		SCRIPTION	TERMS AND DEFINITIONS	
ROCK LINE I SPT REFUSA BLOWS IN N REPRESENTE	INDICATES THE LEVEL AT WHICH NON-CO AL IS PENETRATION BY A SPLIT SPOON 2 NON-COASTAL PLAIN MATERIAL. THE TR ED BY A ZONE OF WEATHERED ROCK. RIALS ARE TYPICALLY DIVIDED AS FOLLO CONTENTION	AIN MATERIAL THAT WOULD YIELD SPT N VALUES >	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. <u>AQUIFER</u> - A WATER BEARING FORMATION OR STRATA. <u>ARGULACEOUS</u> - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SANG <u>ARGULACEOUS</u> - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALL ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO R	CLAY MINERALS, OR HAVING E, SLATE, ETC.
CRYSTALLINE ROCK (CR)		GRAIN IGNEOUS AND METAMORPHIC ROCK THAT I REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE,	WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO SURFACE.	OR ABOVE THE GROUND
NON-CRYSTA ROCK (NCR) COASTAL PL SEDIMENTAR (CP)	ALLINE FINE TO COARSE SEDIMENTARY ROL ROCK TYPE INCLU	GRAIN METAMORPHIC AND NON-COASTAL PLAIN X: THAT WOULD YELLO SPT REFUSAL IF TESTED, JDES PHYLLITE, SLATE, SANDSTONE, ETC. SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD CK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED	CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF C COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY OF SLOPE. CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.	Y ON SLOPE OR AT BOTTOM
FRESH		HERING	DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STF ROCKS OR CUTS MASSIVE ROCK. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS IN	
VERY SLIGHT (V SLI.)		), SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF	HORIZONTAL. <u>DIP DIRECTION (DIP AZIMUTH)</u> - THE DIRECTION OR BEARING OF THE HOR	
SLIGHT	OF A CRYSTALLINE NATURE. ROCK GENERALLY FRESH, JOINTS STAINED	) AND DISCOLORATION EXTENDS INTO ROCK UP TO	LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEL EDDE BELATIVE TO DAY ANYTHER RADALEL TO THE ERACTURE	n displacement of the
(SLI.)	CRYSTALS ARE DULL AND DISCOLORED. C	. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR RYSTALLINE ROCKS RING UNDER HAMMER BLOWS.	SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. <u>FISSILE</u> - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL	
MODERATE (MOD.)	GRANITOID ROCKS, MOST FELDSPARS ARE DULL SOUND UNDER HAMMER BLOWS AND	ISCOLORATION AND WEATHERING EFFECTS. IN DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION PARENT MATERIAL. FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DE	
MODERATELY SEVERE (MOD. SEV.)	AND DISCOLORED AND A MAJORITY SHOW	OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH IST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK.	F <u>ORMATION (FM.)</u> - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZE FIELD. J <u>OINT</u> - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT H	D AND TRACED IN THE
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED		LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNES ITS LATERAL EXTENT. LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DI MOTILED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLO	RECTIONS.
VERY SEVERE (V SEV.)	BUT MASS IS EFFECTIVELY REDUCED TO REMAINING. SAPROLITE IS AN EXAMPLE (	OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR WAIN. JF TESTED, WOULD YIELD SPT N VALUES (100 BPF	USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. <u>PERCHED WATER</u> - WATER MAINTAINED ABOVE THE NORMAL GROUND WATE OF AN INTERVENING IMPERVIOUS STRATUM.	
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC N	OT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND AY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK OUALITY DESIGNATION (ROD) - A MEASURE OF ROCK OUALITY DESCR ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE	RIBED BY TOTAL LENGTH OF
	ROCK H		RUN AND EXPRESSED AS A PERCENTAGE. <u>SAPROLITE (SAP.</u> ) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE ROCK.	OR FABRIC OF THE PARENT
VERY HARD HARD	SEVERAL HARD BLOWS OF THE GEOLOGIS	ARP PICK. BREAKING OF HAND SPECIMENS REQUIRES T'S PICK. DNLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED	$\underline{SILL}$ - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFO RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT. THAT HAS BEEN	
MODERATELY	TO DETACH HAND SPECIMEN. CAN BE SCRATCHED BY KNIFE OR PICK.	GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE	THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. <u>SLICKENSIDE</u> - POLISHED AND STRIATED SURFACE THAT RESULTS FROM OR SLIP PLANE.	FRICTION ALONG A FAULT
HARD MEDIUM	BY MODERATE BLOWS.	SIST'S PICK. HAND SPECIMENS CAN BE DETACHED	STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETR	RATION OF 1 FOOT INTO SOIL
HARD	POINT OF A GEOLOGIST'S PICK.	PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE	WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL TO OR LESS THAN Ø.1 FOOT PER 60 BLOWS. STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL I	
SOFT		KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS E BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN SSURE.	TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALI	
VERY SOFT	OR MORE IN THICKNESS CAN BE BROKEN FINGERNAIL.	CAVATED READILY WITH POINT OF PICK. PIECES I INCH BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY	LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. <u>TOPSOIL (TS.)</u> - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	THAN 4 INCHES DIVIDED BY
TERM		BEDDING	BENCH MARK: BM#I - N: 705808.43; E: I2977I9.I6 (RR 5 10" 0AK)	
VERY WID WIDE MODERATI CLOSE VERY CLO	3 TO 10 FEET ELY CLOSE 1 TO 3 FEET 0.16 TO 1 FOOT OSE LESS THAN 0.16 FEET	VERY THICKLY BEDDED 4 FEET THICKLY BEDDED 1.5 - 4 FEET THINLY BEDDED 0.16 - 1.5 FEET VERY THINLY BEDDED 0.03 - 0.16 FEET THICKLY LAMINATED 0.008 - 0.03 FEET THINLY LAMINATED < 0.008 FEET	NOTES: FIAD - FILLED IMMEDIATELY AFTER DRILLING	TION: 946.77 FEET
FOR SEDIME	NTARY ROCKS, INDURATION IS THE HARDE	RATION	1	
FRIAE	GENTLE BLOW	H FINGER FREES NUMEROUS GRAINS; BY HAMMER DISINTEGRATES SAMPLE.		
	BREAKS EASIL	BE SEPARATED FROM SAMPLE WITH STEEL PROBE: Y WHEN HIT WITH HAMMER. DIFFICULT TO SEPARATE WITH STEEL PROBE:		
	RATED DIFFICULT TO	) BREAK WITH HAMMER. R BLOWS REQUIRED TO BREAK SAMPLE;		
EXTR		KS ACROSS GRAINS.		DATE: 8-15-14



## GEOTECHNICAL BORING REPORT BORE LOG

										L		<u>'E L</u>	UG							
WBS	17BP	.12.R.2	20		Т	ΊP	N/A			COUN	TY C/	ATAWE	BA			GEOLOGI	ST SCHLEN	ИМ, Т. S	 3.	
SITE	DESCR		BRI	DGE	17004	15 C	OVER HC	P CR	EEK	ON SF	1131	(PITTS	TOWN	ROA	D)				GROUNE	) WTR (ft
	NG NO.						<b>TION</b> 12				_	-	31 ft RT		,	ALIGNME	NT -L-		0 HR.	N/#
	AR ELI		36 9 ft				AL DEPT		1 ft		-		<b>7</b> 05,8				1,297,788		24 HR.	FIAD
				TE T			EDRICH D-			0/2017	1				D M	Iud Rotary	.,_0.,.00	НАММ	ER TYPE	
	ER E										0		TE 08/							atomatio
				N. DW CO							1	IF. DA	SAMP.		1 L	SURFACE	WATER DEF		A	
LEV (ft)	ELEV (ft)	DEPTH (ft)	0.5ft	0.5ft	-	- (	0 2	5	50 50	ER FOO	75	100	NO.	моі	0	ELEV. (ft)	SOIL AND RO	CK DESC	CRIPTION	DEPTH
940	-															936.9	GROUN	D SURFA	ACE	(
935	936.4	<u> </u>	9	13	10	T		23						w		- BF	ARTIF D BROWN, SIL	ICIAL FIL		۸F ،
	933.4	3.5	100/0 (					+		÷÷÷						- <u>934.4</u> RE	GI	RAVEL		
	930.9	E 6.0	100/0.3									100/0.3	'			930.9	(GRAY & V			6
Ī		- 0.0	60/0.1			╀╴	<u></u>					-60/0.1	7			930.8	CRYSTA GRAY & V			e
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## GEOTECHNICAL BORING REPORT BORE LOG

														<u>OG</u>							
WBS	17BP	.12.R.2	0		Т	IP N	I/A			COUN	VTY	CAT	FAWE	BA			GEOLOG	ST SCH	_EMM, T	. S.	
SITE	DESCR		BRI	DGE <sup>2</sup>	17004	5 OV	ER HC	P CR	EEK	ON S	R 11	131 (F	PITTS	TOWN	ROA	D)			_	GROUN	D WTR (ft
BORI	NG NO	. B-2			s	TATI	<b>ON</b> 13	3+85			0	OFFS	<b>ET</b> 1	13 ft LT			ALIGNME	NT -L-		0 HR.	N/A
COLL	AR ELI	<b>EV</b> . 94	10.2 ft		_		DEPT		3.5 ft					705,9	63		EASTING	1,297,74	9	24 HR.	FIAD
		MMER E		TF TF								-				D M	ud Rotary	, - ,		J IMER TYPE	
		KLUNE									_			TE 08/		-		WATER			
1		1								ER FO				SAMP.		1 L	JUNFACE			IN/A	
ELEV (ft)	ELEV (ft)	DEPTH (ft)	0.5ft	1	0.5ft	0	2	25	50 50		7	5	100	NO.	мо	0	ELEV. (ft)	SOIL AND	ROCK DE	SCRIPTION	DEPTH (
945																	_				
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935	936.7 ·	ł	4	2	2	] <b>  ∳</b> ₄						•••	•••		Sat.	LN	-				
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930	-	‡	5	5	20		· · >	25	•••		• •	· ·	• •		W		- 930.6 	OWN & DA	RK BROW	ÍN, SAPROLIT	IC, <u> </u>
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925	926.7 ·	+ 13.5 +	27	10	12	1 :	· · · · ]	· · 22 · ·	· ·		· ·	· · · ·	· ·	1	w		- 920.2		GRAVEL		
.20	-	ŧ						<del>.</del> .						1			BR(			VN, SAPROLIT	ГIC,
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	-	1	60/0										60/0 <sup>®</sup>				- Per			ith Standard at Elevation 92	1.7
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## GEOTECHNICAL BORING REPORT BORE LOG

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WBS	17BP.	12.R.2	0			TIP	N/A			COUN	TY C/	ATAWE	BA			GEOLOGI	ST SCHLEI	ИМ, Т. S	<u></u> Э.	
SITE I	DESCR	IPTION	BR	IDGE	1700	45	OVER HO	P CI	REEK	ON SF	1131	(PITTS	TOWN	ROA	D)				GROUND	WTR (ft
BORII	NG NO.	B-3			:	ST/	ATION 13	+46			OFF	SET 2	25 ft RT			ALIGNME	NT -L-		0 HR.	N/A
COLL	AR ELE	<b>EV.</b> 93	32.7 ft	t	ŀ	то	TAL DEPT	H 2	2.0 ft		NOF	THING	<b>7</b> 05,9	22		EASTING	1,297,785		24 HR.	N/A
RILL	RIG/HAI	MMER E	FF./DA		I/A								DRILL M	ИЕТНО	D R	od Sounding		HAMM	ER TYPE	
ORILL	ER N	/A			:	ST	ART DATE	08	8/19/17	7	CON	IP. DA	<b>TE</b> 08/	19/17		SURFACE	WATER DEI	TH N	Ά	
	DRIVE ELEV	DEPTH	· — —	ow co	DUNT			BLO	OWS P	ER FOC	T		SAMP.		L		SOIL AND RC			
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5f	ft	0 2	5	5	0	75	100	NO.	/моі	G	ELEV. (ft)				DEPTH (
935	-	+														- 022.7	CROUN			,
	-	<u>+</u>				+	• • • •	• •			• •					932.7	RED BROV	ID SURF/ VN, SILT		
	-	F				┢	••••						-			<u>- 930.7</u>	Boring Termina	ated with	Sound Rod	2
	-	ŧ														- Pen -	etration Refusa WEATHERD			ON
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