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REFERENCE

DESCRIPTION TITLE SHEET LEGEND (SOIL & ROCK) SITE PLAN PROFILE BORE LOGS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT**

STRUCTURE SUBSURFACE INVESTIGATION

ROBESON

COUNTY _ PROJECT DESCRIPTION I-95 FROM SOUTH OF US 301 TO SOUTH OF NC 20. WIDEN TO EIGHT LANES.

SITE DESCRIPTION NOISE WALL & RIGHT OF -YIRPA-

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I–5987A	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 SOLI TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-680. THE SUBSIFICACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

CENERAL 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 UNI-FLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DECREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOL MOISTURE CONDITIONS MAY YARY 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 VIBSURFACE 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 WARANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPNION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONSTRUCTION STO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OF FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FOM THE ACTUAL CONDENSATION.

- NOTES: I, THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR CUARANTEED 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 REDUCETED 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.

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

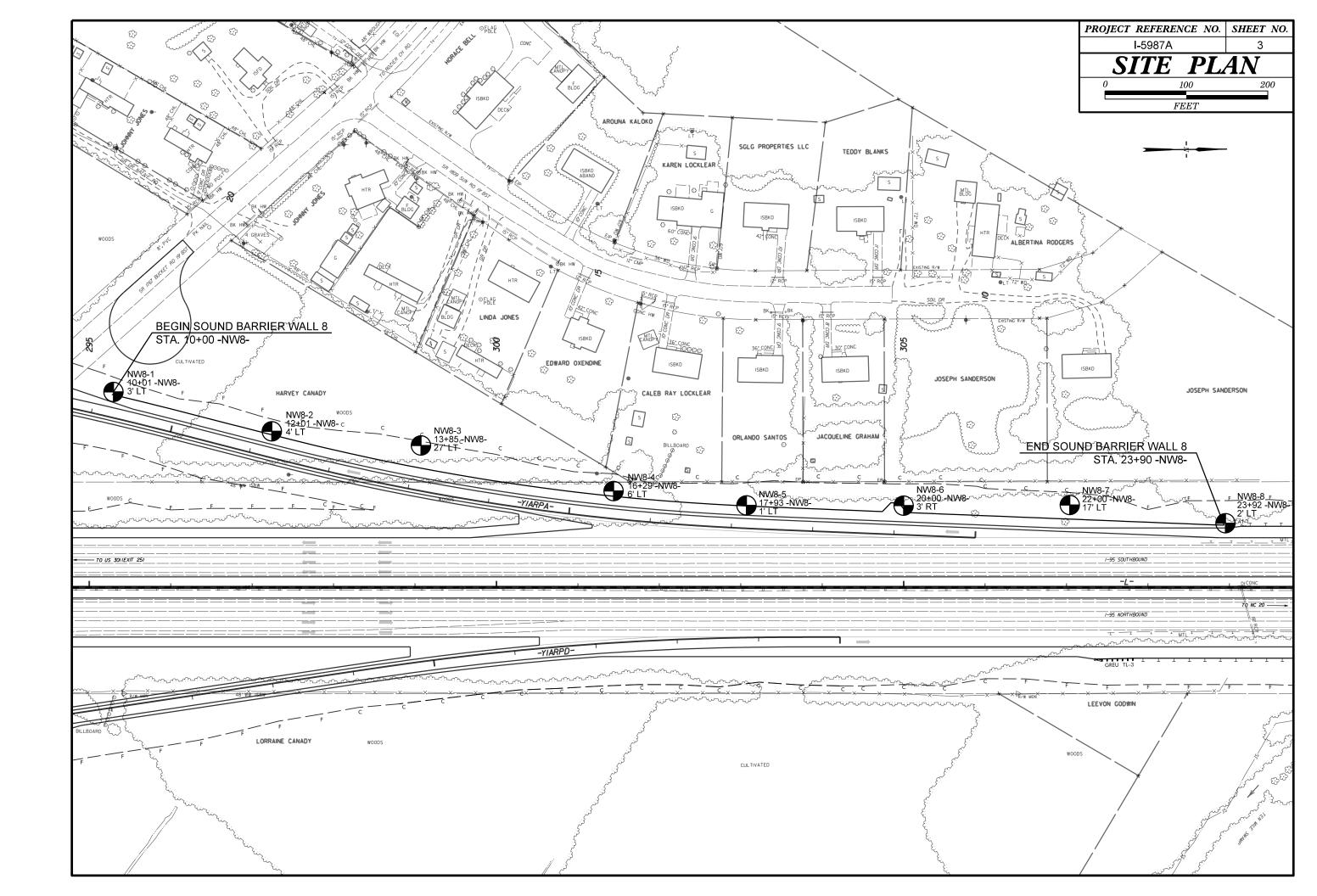
			SOIL C	DESCR	RIPTIO	N						GF	RADATION						ROCK D	ESCRIPTION	
BE PENETRA ACCORDING IS BAS	ATED WITH 5 TO THE 5 5ED ON THE	UNCONSOLIDA A CONTINUOU STANDARD PEN E AASHTO SYS TEXTURE, MOIS	S FLIGHT PO ETRATION TE STEM. BASIC	WER AUG EST (AAS) DESCRIPT	ER AND HTO T 21 TIONS GE	YIELD LES 26,ASTM D NERALLY I	5 THAN 100 1586). SOIL NCLUDE THE	BLOWS PE CLASSIFIC E FOLLOWIN	R FOOT ATION IG:	<u>WELL GRADED</u> - INDICAT <u>UNIFORMLY GRADED</u> - IN <u>GAP-GRADED</u> - INDICATE	NDICATES ES A MIXT	THAT SOIL TURE OF UNI	PARTICLES ARE AL	LL APPROXIM	ATELY THE SAME SIZE.	ROCK LINE SPT REFUSA BLOWS IN N	INDICATE AL IS PE NON-COAS	S THE LEVE NETRATION B STAL PLAIN	L AT WHICH NON-C	T WOULD YIELD SPT R OASTAL PLAIN MATER SAMPLER EQUAL TO O RANSITION BETWEEN	NAL WOULD YIELD
AS N	MINERALOG	ICAL COMPOSI	TION, ANGULA	ARITY, STR	RUCTURE,	PLASTICIT	Y,ETC. FOR	EXAMPLE,		THE ANGULARIT			SOIL GRAINS IS D		BY THE TERMS:		RIALS AR	E TYPICALLY	DIVIDED AS FOLL		
VEP			ND AND					5110.4-1-0		ANGULAR, SUBAN						WEATHERED ROCK (WR)				AIN MATERIAL THAT	WOULD YIELD SP
GENERAL CLASS.	(<	Granular Mater ≤ 35% Passing ■	200)	(>	.T-CLAY MA 35% PASSI	NG \$200)		GANIC MATERIA	ALS		MES SUCH	H AS QUARTZ	CAL COMPOS	TALC, KAOLIN		CRYSTALLIN ROCK (CR)	IE		FINE TO COARSE WOULD YIELD SF GNEISS, GABBRO,	E GRAIN IGNEOUS AND PT REFUSAL IF TESTE SCHIST.FTC.	METAMORPHIC RO D. ROCK TYPE IN
GROUP CLASS. A-1-	A-1	A-3 A-2-4 A-	A-2 2-5 A-2-6 A-2	_	A-5	A-6 A-7 A-7-5 A-7-6	A-1, A-2 A-3	A-4. A-5 A-6. A-7					RESSIBILITY			NON-CRYSTA	ALLINE		FINE TO COARSE	GRAIN METAMORPHIC	
				S								MPRESSIBLE COMPRESSIBL	F	LL < 31 LL = 31	- 50	COASTAL PL			ROCK TYPE INCL	UDES PHYLLITE, SLAT	TE, SANDSTONE, ET
% PASSING	<u></u>							SILT-			LY COMPR	RESSIBLE		LL > 50		SEDIMENTAR (CP)	ROCK			ROCK TYPE INCLUDES	
*10 50 *40 30	MX MX 50 MX 5	51 MN					GRANULAR SOILS	CLAY	MUCK, PEAT				GE OF MATER	RIAL						THERING	
*200 15 t		Ø MX 35 MX 35	MX 35 MX 35	MX 36 MN	36 MN 3	5 MN 36 MN		SOILS	_	ORGANIC MATERIAL	-	GRANULAR SOILS	SILT - CLAY		R MATERIAL	FRESH				INTS MAY SHOW SLIGH	T STAINING. ROCK
MATERIAL PASSING 40 LL	40 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 50LS WITH CORDENTED CONCERNIC MATTER 3 - 5 MODERATELY ORGANIC 5 - 10 UTTE DR												3 - 5% 5 - 12% 12 - 20%	TRACE LITTLE SOME	20 - 35%	VERY SLIGHT	т воск о		RESH, JOINTS STAINE	ED, SOME JOINTS MAY S E SHINE BRIGHTLY. ROO	
			MX 11 MN 11 M	_			MODER	RATE	HIGHLY ORGANIC	HIGHLY ORGANIC		> 10%	> 20%	HIGHLY	35% AND ABOVE	-		CRYSTALLINE			
	INE FRAGS.		4 MX	SIL	LTY	S MX NO MX	AMOUN ORGA MATI	anic	SOILS		WATER		BORE HOLE IMMEDI	ATELY AFTE	R DRILLING	SLIGHT (SLI.)	1 INCH.	OPEN JOINTS	5 MAY CONTAIN CLA	ED AND DISCOLORATION Y. IN GRANITOID ROCKS CRYSTALLINE ROCKS R	S SOME OCCASIONA
	SAND	SAND GRAV	el and sand	SO	ILS	SOILS							VEL AFTER 24			MODERATE				DISCOLORATION AND WE	
GEN. RATING AS SUBGRADE		XCELLENT TO GO			FAIR TO		Fair to Poor	POOR	UNSUITABLE	: - ────		ED WATER,S G OR SEEP	ATURATED ZONE, OF	R WATER BE	ARING STRATA	(MOD.)	DULL S			E DULL AND DISCOLORE D SHOWS SIGNIFICANT L	
	P	1 OF A-7-5 SUBG	ROUP IS ≤ LL				> LL - 30				м		NEOUS SYMB			MODERATELY SEVERE				OR STAINED. IN GRANI W KAOLINIZATION. ROCK	
		COMPACT		RAN	NGE OF S	TANDARD		E OF UNCO				2E /0	0F			(MOD. SEV.)	AND C4	AN BE EXCAVA	ATED WITH A GEOLO	GIST'S PICK. ROCK GIVE	
GENERALLY		CONSIS	TENCY	PENET	RATION F (N-VAL) < 4		COMPF	RESSIVE S (TONS/FT		L ROADWAY EMB WITH SOIL DE SOIL SYMBOL		איי	DIP & DIP DIF OF ROCK STRU		SLOPE INDICATOR	SEVERE (SEV.)	ALL RO	DCK EXCEPT (ED IN STRENG	TH TO STRONG SOIL	OR STAINED. ROCK FA	ALL FELDSPARS
GRANULAR		LOC MEDIUM		Í -	4 TO 10 TO			N/A					VST PMT		INSTALLATION				OME FRAGMENTS OF <u>(IELD SPT N VALUE</u> S	' STRONG ROCK USUALL <u>S > <i>100 BPF</i></u>	Y REMAIN.
	ATERIAL DENSE 30 TO 50 VERY DENSE >50 VERY SOFT < 2										Y EMBANK		-) AUGER BORING	, <u>A</u>	CONE PENETROMETER TEST SOUNDING ROD	VERY SEVERE (V SEV.)	BUT M REMAIN	ASS IS EFFEC	TIVELY REDUCED TO TE IS AN EXAMPLE	OR STAINED. ROCK FA D SOIL STATUS, WITH O OF ROCK WEATHERED 1	ONLY FRAGMENTS O TO A DEGREE THAT
GENERALLY SILT-CLAY MATERIAL	,	SOI MEDIUM STI	STIFF FF		2 TO 4 TO 8 TO	8 15		0.25 TO 0 0.5 TO 1 1 TO 2	.0	INFERRED ROOM	CK LINE	MWC) MONITORING W PIEZOMETER		HEST BORING	COMPLETE	ROCK F	REDUCED TO S	SOIL. ROCK FABRIC	EMAIN. <u>IF TESTED, WOU</u> NOT DISCERNIBLE,OR D MAY BE PRESENT AS DI	DISCERNIBLE ONLY
(COHESIVE))	VERY HAI		l l	15 TO > 30			2 TO 4 > 4		ALLUVIAL SOI	L BOUNDA	ARY 🛆	INSTALLATION)— SPT N-VALUE		ALSO 4	AN EXAMPLE.	BOCK		
		Т	EXTURE	OR G	RAIN	SIZE					RE	ECOMMEN	DATION SYME	30LS		VERY HARD	CANNO	T BE SCRATCH		HARDNESS HARP PICK. BREAKING (OF HAND SPECIMEN
U.S. STD. SIEVE OPENING (MM)	E SIZE		4 10 4.76 2.00	40 0.4			270 5 0.053					LASSIFIED E UITABLE WAS			SSIFIED EXCAVATION - TABLE,BUT NOT TO BE		SEVERA	AL HARD BLOW	S OF THE GEOLOGI	ST'S PICK.	
BOULDER	СОВ	BLE GF	RAVEL	COAR SAN	SE	FINE	s	SILT	CLAY	SHALLOW UNDERCUT		LASSIFIED E			IN THE TOP 3 FEET OF KMENT OR BACKFILL	HARD MODERATELY	TO DET	TACH HAND SF	PECIMEN.	ONLY WITH DIFFICULTY	
(BLDR.) GRAIN MM	305	75	(GR.) 2.0	(CSE.	SD.) Ø.:	(F SD	.) ⁽¹ 0.05	SL.) 0.005	(CL.)	AR - AUGER REFUSAL			MEDIUM	VST	- VANE SHEAR TEST	HARD	EXCAVA		BLOW OF A GEOLO	DGIST'S PICK. HAND SPE	
SIZE IN.	12 S(3 DIL MOIS	TURE -	CORRI	ELATI	ON OF	TERMS			BT - BORING TERMINATED CL CLAY CPT - CONE PENETRATION		MOD	MICACEOUS MODERATELY NON PLASTIC	γ-	- WEATHERED UNIT WEIGHT DRY UNIT WEIGHT	MEDIUM HARD	CAN BE		IN SMALL CHIPS TO	HES DEEP BY FIRM PRE D PEICES 1 INCH MAXIM	
	DISTURE S RBERG LIM		FIELD MI DESCRI		GL	JIDE FOR	FIELD MOIS	STURE DES	CRIPTION	CSE COARSE DMT - DILATOMETER TES DPT - DYNAMIC PENETRA		PMT -	ORGANIC PRESSUREMETER T SAPROLITIC	rest <u>S</u>	AMPLE ABBREVIATIONS BULK	SOF T	FROM	CHIPS TO SEV		Y KNIFE OR PICK. CAN ZE BY MODERATE BLOW	
	_ LIQUID I	LIMIT .	- SATUR (SAT.				DUID:VERY			e - VOID RATIO F - FINE - FOSS FOSSILIFEROUS		SL S	SAND, SANDY SILT, SILTY SLIGHTLY	ST -	SPLIT SPOON SHELBY TUBE ROCK	VERY SOF T	CAN BE	E CARVED WIT RE IN THICKN	H KNIFE. CAN BE E	XCAVATED READILY WIT	
PLASTIC RANGE <			- WET -	(W)			REQUIRES D IMUM MOIS			FRAC FRACTURED, FRAC FRAGS FRAGMENTS	TURES	TCR - <i>w</i> - M0	TRICONE REFUSAL DISTURE CONTENT	RT -	RECOMPACTED TRIAXIAL		FINGER	NAIL. TURE SP4	ACING		BEDDING
										HI HIGHLY			ON SUBJEC		RATIO	VERY WI		MORE	SPACING THAN 10 FEET	VERY THICKLY	
	SLSHRINKAGE LIMIT									DRILL UNITS:		ICING TOOLS: CLAY BITS	UN SUBJEC		WIDE	TELY CLO	3 ISE 1	TO 10 FEET TO 3 FEET 16 TO 1 FOOT	THICKLY BEDI THINLY BEDDI VERY THINLY	DED 1 ED 0.	
			- DRY -	(D)			DDITIONAL IMUM MOIS			CME-55	6	6" CONTINUOUS	S FLIGHT AUGER	CORE SI		VERY CL	OSE		THAN 0.16 FEET	THICKLY LAM THINLY LAMIN	IINATED 0.00
			PL	ASTIC	ITY							8 HOLLOW AU		□-в_	П-н			00000 10000			
	LASTIC		PLAST	0-5 6-15		<u>)</u>		VERY LOW		CME-550	📋 י	HARD FACED				FOR SEDIME		UUKS, INDURA	RUBBING WIT	DENING OF MATERIAL I IH FINGER FREES NUM W BY HAMMER DISINTE	EROUS GRAINS;
MODER	ATELY PL	ASTIC		16-25 26 OR M	i ORE			MEDIUM					W/ ADVANCER	, 🗌 🗖 PO	IST HOLE DIGGER	MODE	RATELY	INDURATED		BE SEPARATED FROM ILY WHEN HIT WITH H	
				COLOF	٦					X DIEDRICH D-50	י 🗌 ו		' TUNGCARB.		UNDING ROD	INDU	RATED			DIFFICULT TO SEPAR	
		NCLUDE COLO CH AS LIGHT,										CORE BIT			NE SHEAR TEST	EXTR	EMELY I	NDURATED	SHARP HAMM	U BREAK WITH HAMME ER BLOWS REQUIRED AKS ACROSS GRAINS.	

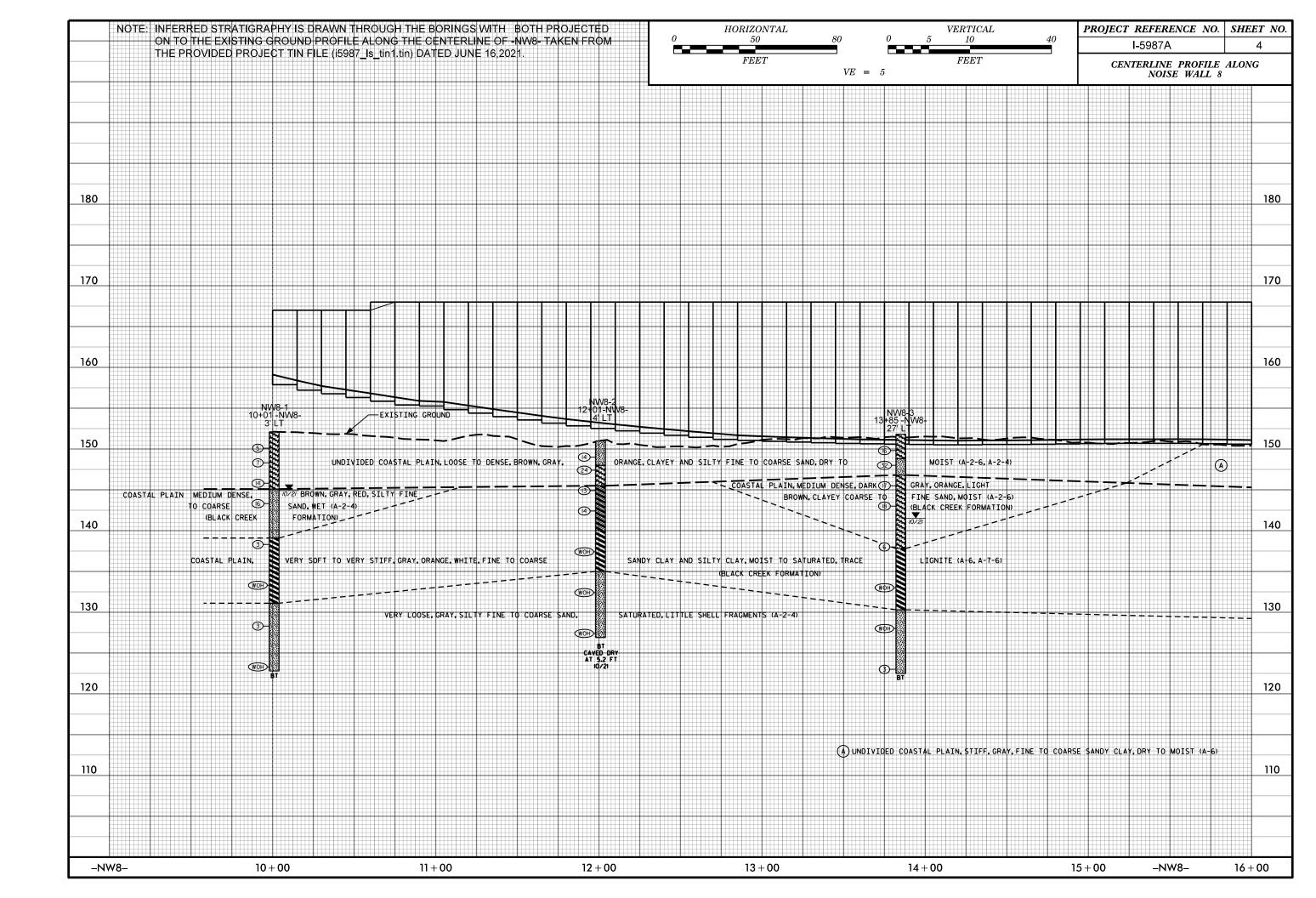
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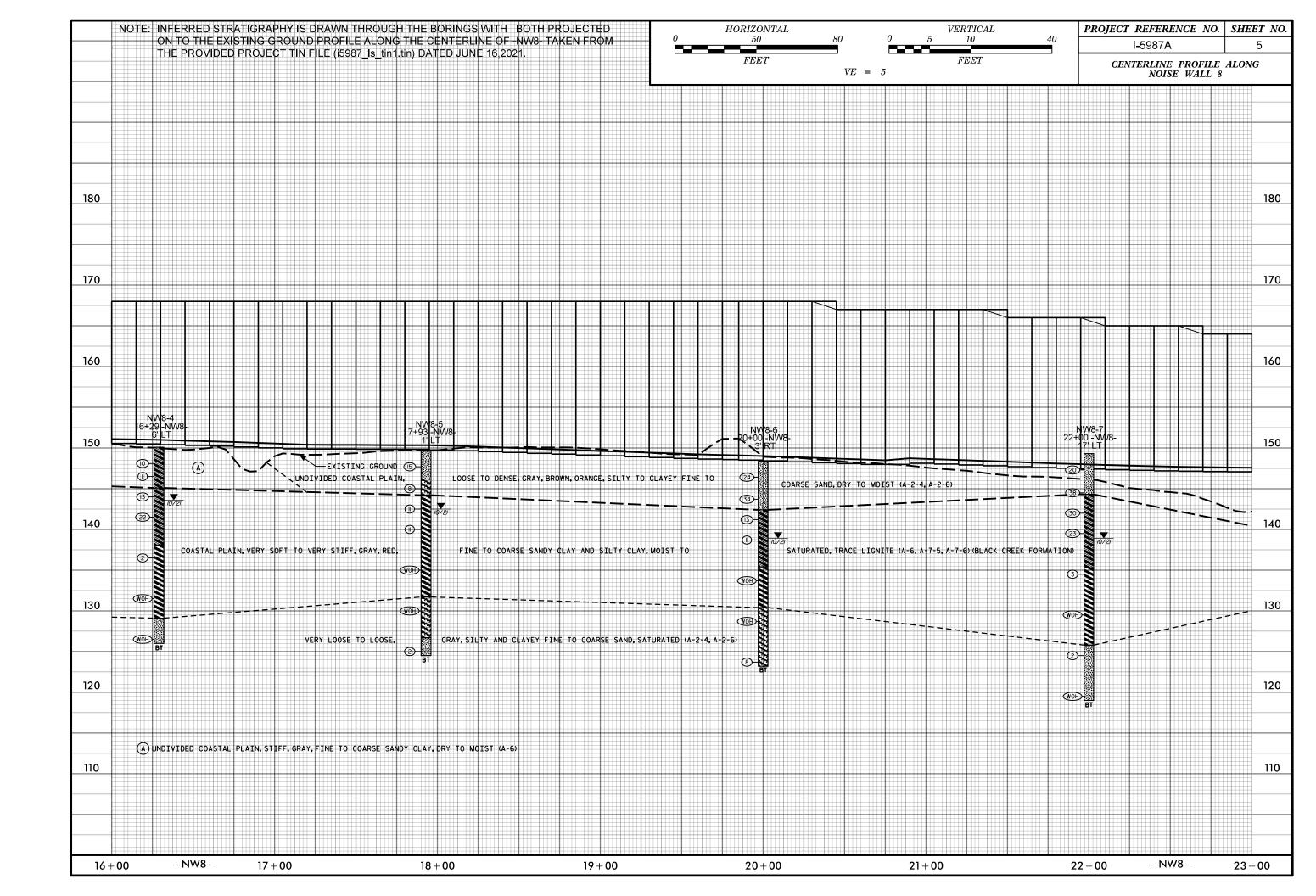


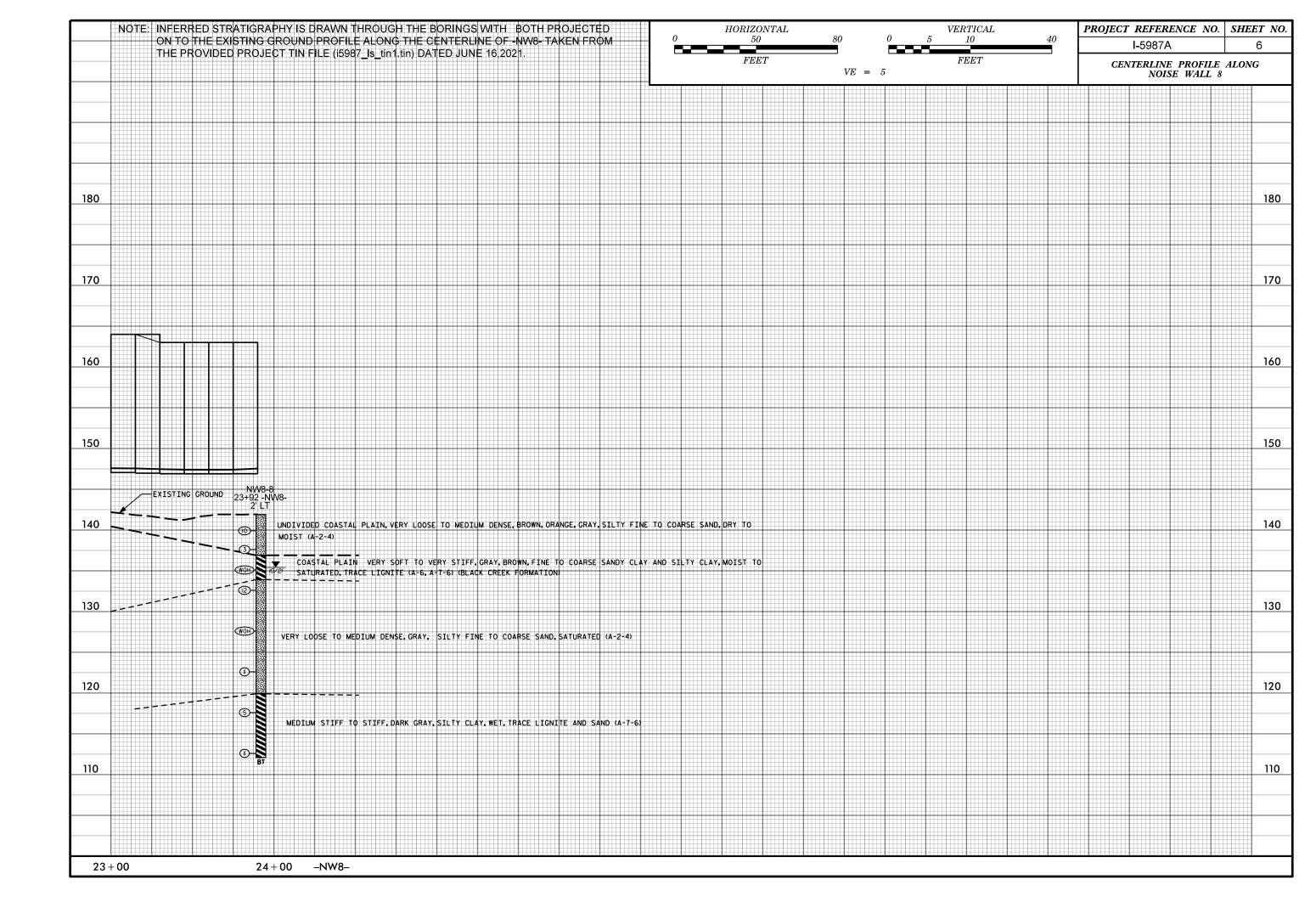
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	TERMS AND DEFINITIONS
ED. AN INFERRED D SPT REFUSAL.	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.
1 FOOT PER 60 IS OFTEN	AQUIFER - A WATER BEARING FORMATION OR STRATA.
	ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.
T N VALUES >	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.
OCK THAT NCLUDES GRANITE,	A <u>PIESIAN</u> - 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.
AL PLAIN IF TESTED. IC.	$\underline{\text{COLLUVIUM}}$ - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
T MAY NOT YIELD STONE, CEMENTED	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.
RINGS UNDER	$\underline{\text{DIP}}$ - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.
COATINGS IF OPEN, HAMMER BLOWS IF	DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
ock up to Al Feldspar	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
R BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
TS. IN AY. ROCK HAS	<u>FLOAT</u> - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.
h as compared	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
FELDSPARS DULL LOSS OF STRENGTH	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
WHEN STRUCK.	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
EVIDENT BUT ARE KAOLINIZED	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
RE DISCERNIBLE	USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.
DF STRONG ROCK T ONLY MINOR VALUES < 100 BPF	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.
IN SMALL AND	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
IS. SAPROLITE IS	ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUALITO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
NS REQUIRES	$\underline{SAPROLITE}$ - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
BLOWS REQUIRED	<u>SILL</u> - 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.
DEEP CAN BE DETACHED	<u>SLICKENSIDE</u> - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.
OR PICK POINT. D BLOWS OF THE	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.
N FRAGMENTS NT. SMALL, THIN	STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
. PIECES 1 INCH	<u>STRATA ROCK QUALITY DESIGNATION (SROD)</u> - 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.
HED READILY BY	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
	BENCH MARK: TOP OF BORING ELEVATIONS DETERMINED USING PROJECT
THICKNESS 4 FEET	TIN FILE (15987_1s_tin1.tin) DATED 6/15/2021.
1.5 - 4 FEET	ELEVATION: N/A FEET
.16 - 1.5 FEET 03 - 0.16 FEET	NOTES:
08 - 0.03 FEET	
< 0.008 FEET	
EAT, PRESSURE, ETC.	
TEEL PROBE;	
PROBE:	
.E;	











WBS 47533.1.2 TIP I-5987A COUNT	Y ROBESON	GEOLOGIST DEGON, A.	WBS 475	533.1.2		ТІ	IP I-5987A	COUN	ITY ROBES	ON		GEOLOGIST DEGON,	A.		
SITE DESCRIPTION I-5987A NOISE WALL 8	1		GROUND WTR (ft)	SITE DES	CRIPTION	I-5987A	NOISE	WALL 8						GROUN	D WTR (ft)
BORING NO. NW8-1 STATION 10+01	OFFSET 3 ft LT	ALIGNMENT NW8	0 HR. N/A	BORING N	NO. NW8-	2	S	TATION 12	2+01	OFFSET			ALIGNMENT NW8	0 HR.	N/A
COLLAR ELEV. 152.1 ft TOTAL DEPTH 29.3 ft	NORTHING 354,439	EASTING 2,000,547	24 HR. 7.2	COLLAR				OTAL DEPT		NORTHIN			EASTING 2,000,597	24 HR.	Caved
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 95% 02/06/2021		· · · · · · · · · · · · · · · · · · ·	MER TYPE Automatic						50 95% 02/06/2021	1			,	HAMMER TYPE	Automatic
DRILLER TURNAGE, J. R. START DATE 10/21/21 ELEV DRIVE DEDTU BLOW COUNT BLOWS PER FOOT	COMP. DATE 10/21/21		N/A					TART DATE			- -	/21	SURFACE WATER DEP	TH N/A	
ELEV (ft)DRIVE ELEV (ft)DEPTHBLOW COUNTBLOWS PER FOOT(ft)0.5ft0.5ft0.5ft02550	75 100 NO. MOI G	SOIL AND ROCK DES		ELEV DRIV (ft) CRIV ELE		BLOW C	_		BLOWS PER FOO	75 100	SAMP.	MOI G		K DESCRIPTION	
		ΕLEV. (π)	DEPTH (ft))				1	I		MOIG			
155				155											
		-		100	+								-		
		152.1 GROUND SURF UNDIVIDED COAST.			‡								- 151.0 GROUND	SURFACE	0.0
	M	LOOSE TO MEDIUM DEI GRAY, ORANGE, CLAY	NSE, BROWN,		.0 1.0	6 7	7				-	D		OASTAL PLAIN E, GRAY, BROWN,	I
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M	COARSE SAND, MOI		148.	4 7 2.6	11 11	13		24			M	148.0 ORANGE, SILTY FIN		
		145.1	7.0	145	9 5.1	6 6	7					M		, GRAY, BROWN,	l, <u>5.5</u>
	: : : : : w	COASTAL PL MEDIUM DENSE, BROWI	N, GRAY, RED,	143	.4 7.6	5 6	8		 				SAND, MC	DIST (A-2-6) AL PLAIN	
		SILTY FINE TO COARSE (A-2-4) (BLACK CREEK		140	±				· · · · · · · · ·			*	STIFF, GRAY, ORAN	NGE, WHITE, FINE	
		139.1 VERY SOFT TO SOFT, DAI		140	4 - 12.6			 					140.0 COARSE SANDY C (A-6) (BLACK CR	EEK FORMATION	1) (
	· · · · · 	CLAY, WET TO SOFT, DAI CLAY, WET TO SATURA LIGNITE, HIGHLY PLA	ATED, TRACE	150.		woн wo	H WOH		 	· · · · ·		Sat.	SATURATED, TRAC		, HLY
			STIC (A-7-0)	135	+								135.0	IC (A-7-6) ARK GRAY, SILTY	<u> </u>
	Sat.	-		133.	.4 + 17.6	woн wo	н мон		· · · · · · · · · ·			Sat.	COARSE TO FINE	SAND, SATURATE	ED,
		131.1 VERY LOOSE, GRAY, SIL	TY COARSE TO 21.0	130	‡				 					VAGIVIENTS (A-2-4	4)
		FINE SAND, SATURA			4 22.6					· · · · ·					
		-			_ 	woн wo	H WOH	• 0			└┨ ┠╵	Sat.	126.9 Boring Terminated a	at Elevation 126.9 f	24.1 ft IN
125 124.3 27.8 WOH WOH WOH					ΞI								COAŠTAL PLAIN CI	LAYEY SAND (BLA ORMATION)	ACK
	Sat.	_ 122.8 _ Boring Terminated at Eleva	29.3 ation 122.8 ft IN		±								-) DRY AT 5.2'	
		- COĂSTAL PLAIN SILTY : - CREEK FORMA	SAND (BLACK		±								-		
		-	,		‡								-		
		-			‡								-		
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SHEET 7 OF 10



Const	ilting En	gineers a	and Sci	entists					E	UR		.0G																						
WBS	WBS 47533.1.2 SITE DESCRIPTION I-5987A NO			ТІ	P 1-598	7A		COUN	ry RC	DBESC	N			G	BEOL	.OGIS	T DEG	GON, A.				WBS	4753	33.1.2				TIP	l-5987	A	cc	OUNT	/ F	
SITE	DESCF	RIPTION	I 1-59	87A N	OISE	WALL 8														G	ROUND	WTR (ft)	SITE	DESC	RIPTIC	DN 1-5	987A	NOIS	SE V	VALL 8				
BORI	NG NO	. NW8	3-3		S	TATION	13+8	5		OFF	SET 2	27 ft LT			A	LIGN	MEN	T NW8	3	0	0 HR.	N/A	BOR	ING NO) . NW	/8-4			ST	ATION	16+29			OF
COLL	AR EL	EV. 15	51.8 ft		т	DTAL DE	PTH	29.3 ft		NOR	THING	3 354,8	816		E	AST	ING 2	2,000,6	16	24	4 HR.	10.3	COL	LAR EI	LEV.	150.1 f	ť		то	TAL DEP	TH 24	.1 ft		NO
DRILL	RIG/HA	MMER E	FF./DA	TE TE	ER373 [DIEDRICH	D-50 9	95% 02/	06/2021	1		DRILL	METHO	OD	Mud R	otary			HAI	MMER	TYPE A	utomatic	DRIL	RIG/H	AMMER	EFF./D	ATE	TER37	73 DI	IEDRICH D)-50 95%	02/06/2		
DRIL	FR T	URNA	GE J	R	S		TF 1	10/21/2	1	CON		TE 10/							DEPTH						TURNA					ART DAT				со
	DRIVE	1	-	W CO					' PER FOO	_		SAMP.								11/7				DRIVE	- 1	-		COUNT				VS PER		
ELEV (ft)	ELEV (ft)	DEPTH (ft)	' 	0.5ft		0	25		50 	75	100	NO.	17	O DI G		EV. (ft)		Soil Ani) ROCK DE	ESCRI	IPTION	DEPTH (ft)	ELEV (ft)	ELEV (ft)		···	_	ift 0.5		0	25 	50 50		75
155																		C D			-		155		+									
150	150.8	1.0				J	· ·							~~	<u>151</u>	1.8		UNDIVI	OUND SUP	TAL F	PLAIN	0.0	150		‡									
150	149.0	2.8	3	6	10	→	116						D	<u>/</u> ~/~	148	3.8			DENSE, BR LAYEY CC		, GRAY, E TO FINE	3.0	150	149.1	1.0		6							T
	146.5	+ + 5.3	11	12	20			32 · ·					D		<u>14</u> 6	5 <u>.8</u>		SA WHITI	ND, DRY (A-2-6)) N ORANG	E, <u>r 5.0</u>		147.5	2.6	6	6		+ 7	· • 10 ·	. .			-
145	_	t	6	8	9		17						м	/~./·	÷		SIL	TY FINE	TO COAR	SE SA	AND, DRY		145	145.0	5.1					9 ¹¹ .				
	144.0	7.8	7	8	10		1.0							<i></i>	÷		`	<u>-</u>	(A-2-4) DASTAL P					440 5	1	3	5	8	3	· · • 13·	.			-
140	139.0	 						· · · · · · ·		· · ·				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	┝╺┿╸┿╸┿╺┽		LIG	HT BROV SAND, M	VN, CLAYE	EY CC 6) (BL	(, ORANGE DARSE TO ACK CREE	,	140	142.5	<u>7.6</u>	8	11	1	1		•22	.	· · · ·	
		ł	4	3	3	∳ 6• •							W		137	7.8			FT TO ME	,	STIFE	14.0		137.5	+ 12.6	3 2	1	1						.
135		Ŧ				j											GRI	EEN-GR	AY, SILTY	CLAY			135		Ŧ		'	'	'					
	134.0	17.8	WOH	WOH	WOH	<i>j</i>							Sat.				SAT		, TRACE L LASTIC (A		E, NIGRL I				Ŧ					<u>i</u> .				1
		ŧ			WOIT	•0····		· · · · · ·					Sat.											132.5	+ 17.6		H WO	н wo	л .		· · · · ·		•••	-
130		‡					· ·			• •					130	0 <u>.3</u>	.		SE, DARK			21.5	130		‡					••••••		· ·		<u> </u>
-	129.0	22.8	WOH	WOH	WOH		· ·	· · ·	 				Sat.						FINE SAN	ID, SA	TURATED			107 5	+ 22.6						. .			
125		ł				T · · ·			 										(A-2-4)					_127.5		woi	H WO	н wc	ЭН	0				
	-	27.8 	1	2	1	1 ∳ 3		· · · · · ·					Sat.		- 122 	2.5		ĂSTAL P		Y SAN	n 122.5 ft IN ID (BLACK N)													
	-	+ + + + + + + + + + + + + + + + + + + +																																
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SHEET 8 OF 10

7	r ROI	BESC	DN			GEC	DLOGIST	DEGON,	Α.			
										GROUN	D WTR (f	t)
	OFFS	ET (6 ft LT			ALIO	GNMENT	NW8		0 HR.	N/2	A
	NORT	HING	3 55,0)52		EAS	STING 2,	000,674		24 HR.	6.	5
_			DRILL N	NETHO	DM	ud Rota	ry		HAMME	ER TYPE	Automatic	
	COMF	P. DA	TE 10/			SUR	RFACE WA	ATER DEP	TH N//	4		
Г	75	100	SAMP. NO.		L O		SC	IL AND ROO	CK DESC	RIPTION		
			110.	/моі	G							
						-						
						-						
			.CE . Plain	(0.0							
•				D		-	STIFF,	GRAY, FINE CLAY, DRY	E TO COA	ARSE SAN	IDY	
•	· · · ·	· ·		М		- 145.1	(LAT, DRT		T (A-0)	ţ	5.0
						-	STIFE	COAST TO VERY S	TIFE GR			
•		· ·		м		-	COA	RSE SANDY	CLAY, N	IOIST (A-		
•		•••				-	(L			IATION)		
•						138.1		SOFT, LIG			Y. <u>12</u>	<u>2.0</u>
•				Sat.		-	SILT	Y CLAY, SA	TURATE	d, highl`	Ý	
					\square	-				/		
•				Sat.	\square	-						
-	+					129.1					2	1.0
•	· ·	· ·		0-4		-		Y LOOSE, D SE TO FINE	SAND, S		ED	
-			-	Sat.		126.0	Boring	A) Terminated	∖-2-4) at Elevati	on 126.0 f		1.1
						-		TAL PLAIN CREEK F	SILTY SA	AND (BLAC		
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WBS 47533.1.2	TIP I-5987A C	GEOLOGIST DEGON, A.	WB	S 4753	33.1.2			TIP I-	5987A COUN	ITY ROBES	ON		GEOLOGIST DEGON,	A.		
SITE DESCRIPTION I-5987A NC				GROUND WTR (ft)	SITI	E DESC	RIPTION	I 1-598	37A NC	DISE WAL	.L 8				1	GROUND WTR (ft)
BORING NO. NW8-5	STATION 17+93	OFFSET 1 ft LT	ALIGNMENT NW8	0 HR. N/A			D. NW8			STATIO	ON 20+00	OFFSET			ALIGNMENT NW8	0 HR. N/A
COLLAR ELEV. 149.7 ft	TOTAL DEPTH 25.2 ft	NORTHING 355,215	EASTING 2,000,693	24 HR. 7.2			_EV. 14	-			DEPTH 25.2 ft	NORTHIN			EASTING 2,000,695	24 HR. 9.5
DRILL RIG/HAMMER EFF./DATE TER			·	MER TYPE Automatic						-	RICH D-50 95% 02/06/2021				Mud Rotary	HAMMER TYPE Automatic
DRILLER TURNAGE, J. R.	START DATE 10/20/21	COMP. DATE 10/20/21		N/A	DRI			-			DATE 10/20/21	COMP. DA		0/21	SURFACE WATER DEP	TH N/A
ELEV DRIVE ELEV (ft) 0.5ft 0.5ft 0			SOIL AND ROCK DES		ELE\ (ft)		DEPTH		W COUN		BLOWS PER FOO 25 50	OT 75 100	SAMP.	/ o	SOIL AND ROO	CK DESCRIPTION
(ft) (ft) 0.5ft 0.5ft		75 100 NO. MOI G	ELEV. (ft)	DEPTH (ft)		(ft)		0.51	0.511	0.511				MOI G		
150					150											
1487 - 10			L 149.7 GROUND SURF UNDIVIDED COAST	AL PLAIN	150		+								- 148.4 GROUNE	0.0 SURFACE 0.0
		· · · · · · · M	MEDIUM DENSE, GRAY, 146.2 COARSE SAND, MO			147.4	1.0	12	13	11		· · · · ·		D		COASTAL PLAIN
	4 · / · · · · · · · · · · · · · ·	M	LOOSE, GRAY, CLAYEY FI		145	144.7	<u> </u>	17		10			-			NE TO COÁRSE SAND, IOIST (A-2-4)
143.5 + 6.2 + 4 6	5		COASTAL PL VERY SOFT TO STIFF,			142.2	+ _{6.2}		22		···· □ · · · · · · · · · · · · · · · ·	· · · · · ·		М	- 142.4	6.0
140 4 5			CLAY, MOIST TO WET, TF SAND. TRACE LIGNITE. H	RACE TO LITTLE	140		87	5	-	8 .		· · · · ·			STIFF, GRAY, REI	AL PLAIN D, COARSE TO FINE
			(A-7-6) (BLACK CREEK			1.59.7	<u> </u>	5	5	6 .	P 11 : : : : : : : : : : : : : : : : : :] -			T (A-6) (BLACK CREEK //ATION)
136.0 13.7			4. 4.				Ŧ				/ 				135.4	13.0
135 WOH WOH V	WOH •	<u></u> " C	↓		135	134.7	+ 13.7	WOH	WOH V	ион	····		-	w	VERY SOFT, DARK	(GRAY, SILTY CLAY, ITE, HIGHLY PLASTIC
			131.7	18.0			‡			•	· · · · · · · · · ·			Ë		-7-6)
130 18.7 WOH WOH V	WOH 0	· · · Sat.	VERY LOOSE, DARK GRA TO COARSE SAND, SATU	IRATED, TRACE	130	129.7	+ 18.7				· · · · · · · · · ·	· · · · ·				DOSE, GRAY, CLAYEY
			LIGNITE (A-2				ŧ	WOH	WOH V	NOH NOH	· · · · · · · · · ·			Sat.	COARSE TO FINE	SAND, SATURATED -2-6)
125 23.7 1 1		· · · · · · · · · · · · · · · · · · ·			125		+				· · · · · · · · ·			Sat.		,
	•		- 124.5 COARSE TO FINE SAND	LIGNITE (A-2-4)		- 124.7	<u> </u>	3	3	5	8			Sat. 🕺		25.2
			Boring Terminated at Elev COASTAL PLAIN SILTY	SAND (BLACK			Ŧ								COAŠTAL PLAIN C	at Elevation 123.2 ft IN LAYEY SAND (BLACK
			CREEK FORMA	TION)			Ŧ								CREEK F	ORMATION)
			-				Ŧ									
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WBS 47533.1.2							TIP I-5987A COUNTY ROBESON									GE	OLOGIST DEGON	, A.			WBS	47533	5.1.2			ТІ	P 1-59	87A		COUNT
S	SITE DESCRIPTION 1-5987A NOISE WALL 8															GROUND WT	R (ft)	SITE	DESCR	IPTION	I I-59	87A N	OISE	WALL 8	3					
В	ORIN	IG NO	. NW8	3-7		S	TAT	ION 2	2+00			OFFSET	17 ft LT			AL	IGNMENT NW8		0 HR.	N/A	BOR	ING NO.	NW8	-8		ST	ATION	23+	92	
С	OLL	AR ELI	EV. 14	19.3 ft		Т	ΌΤΑ	L DEP	TH 30.3	3 ft	1	NORTHING	3 355,	612		EA	STING 2,000,696		24 HR.	10.4	COLI	AR ELE	EV. 14	1.9 ft		т	DTAL D	EPTH	29.8 f	t
D	RILL I	rig/hai	MMER E	FF./DA	TE TE	R373	DIED	RICH D-	-50 95% (02/06/2	2021		DRILL	METH	OD I	Mud Rot	ary	HAMM	ER TYPE Autom	atic	DRILL	. RIG/HAN	MMER E	FF./DA	TE TE	R373 E	DIEDRIC	H D-50	95% 02/	/06/2021
D	RILL	ER T	URNA	GE, J.	R.	S	TAR		E 10/20)/21		COMP. DA	TE 10	/20/21	1	SU	RFACE WATER DEF	PTH N/	Ά		DRIL	LER TU	URNAC	GE, J.	R.	ST	ART D	ATE	10/20/2	21
	. EV	DRIVE ELEV	DEPTH	·	ow co				BLOW				SAMP	. V			SOIL AND RO	CK DES	CRIPTION		ELEV	DRIVE ELEV	DEPTH		w col					PER FOOT
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0		25	50	7	75 100	NO.	Имс			′. (ft)		DEF	TH (ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25		50
1	50		-													149.3	GROUN	D SURF	ACE	0.0	145		-							
	_	148.3	1.0 1	10	11	9			20					D		<u></u>	UNDIVIDED MEDIUM DENSE					-	-							
1	45 -	145.5 ·	- - <u>3.8</u>			10	_ :				· · · · · ·	· · · · ·					RED-BROWN, SIL SAND, DRY				140	140.9	- 1.0	7	6	4	· [
		143.0	- - - 6.3	17	20	18			Г	3				M		144.3	COAS	TAL PLA	IN	5.0		138.6 -	- 3.3			1		0		
		-	F	10	15	15	1 :		→ 30 ·		· · · ·			м			VERY STIFF, GRA	Y CLAY, I	MOIST (A-6)			136.1	5.8	4	2	1	• 3 :			
1	40 -	140.5 -	<u>+ 8.8</u> 	10	12	11	1⊢:		23		· · · ·	· · · · ·				F	(BLACK CRE	MATION)		135	-	L	WOH	WOH	WOH	•0		· · · ·		
		-	Ŧ													-						133.6 -	- 8.3	3	5	7		 12 [.]		
1	35 -	135.5 -	13.8								· · · ·	· · · · ·				135.3				14.0	130	-	-				· / · /·			
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