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<u>SHEET</u>	NO.
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450010

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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

COUNTY HERTFORD

PROJECT DESCRIPTION BRIDGE NUMBER 10 ON -L-(SR 1311) OVER MEHERRIN RIVER AT STA. 16+84

P1.R003 R PROJEC

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SF-450010	1	12

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 REVEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-6800. 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 UN-FLACE)TEST DATA CAN BE RELIED ON ONLY TO THE DECREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOLI MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOLI 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 CAUTONED 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 DOS NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERRETATIONS MADE, OR OPNION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONSTROST TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY IMINSELF 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 ACUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTES:

- TES: 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 REDUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAVES ANY CLAIMS FOR INCREASED COMPENSATION OR STETNSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE. 2.

PERSONNEL

S.N. ZIMARINO

T.W. MILLER

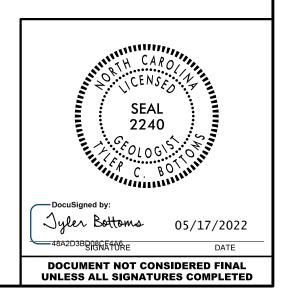
R.E. SMITH

D.G. PINTER

C.M. WALKER

INVESTIGATED BY _____. BOTTOMS DRAWN BY _ T.W. MILLER CHECKED BY ______. D.N. ARGENBRIGHT SUBMITTED BY ______. ARGENBRIGHT

DATE <u>MAY</u> 2022



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

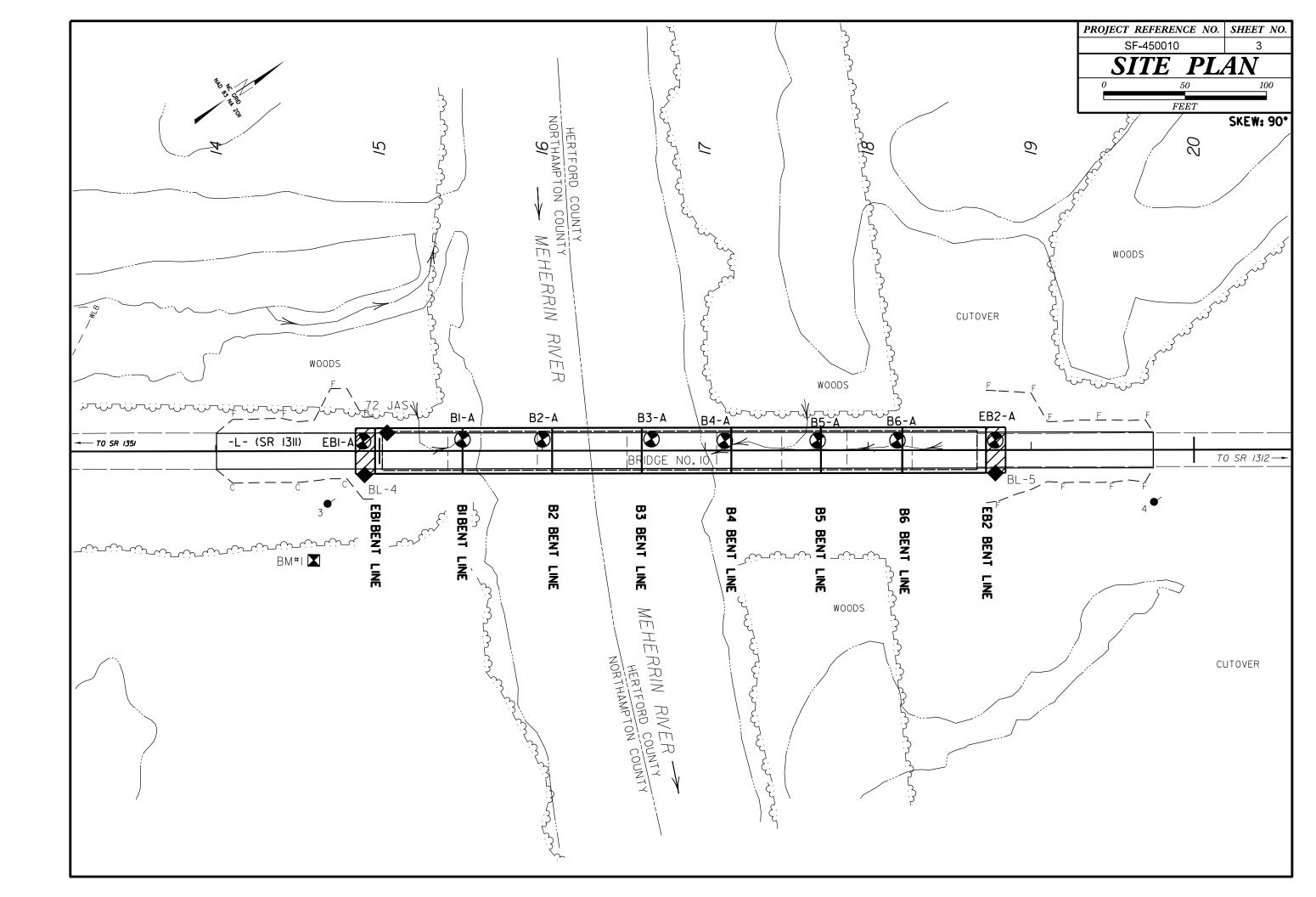
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

			SOIL D	ESCRIPT	ION				T		GF	RADATION						ROCK DE	SCRIPTION	
BE PENET ACCORDI IS B CONSISTE	TRATED WITH ING TO THE BASED ON TH ENCY, COLOR,	H A CONTINUC STANDARD PI HE AASHTO S TEXTURE,MO	ATED, SEMI-CON IUS FLIGHT POV ENETRATION TES YSTEM, BASIC D ISTURE, AASHTO	VER AUGER AN ST (AASHTO 1 DESCRIPTIONS CLASSIFICA1	ND YIELD LESS 206, ASTM DI GENERALLY IN ION, AND OTHE	5 THAN 100 1586), SOIO NCLUDE TH R PERTINE	Ø BLOWS PI L CLASSIFI HE FOLLOWI ENT FACTOF	ER FOOT CATION NG: RS SUCH	WELL GRADED - INDICAT UNIFORMLY GRADED - IN GAP-GRADED - INDICATE	NDICATE	S THAT SOIL	PARTICLES ARE AL	L APPROXIM ZES OF TWO	ATELY THE SAME SIZE.	ROCK LINE IN SPT REFUSAL BLOWS IN NO REPRESENTED	DICATES IS PENE N-COASTA BY A ZO	THE LEVEL TRATION B AL PLAIN D ONE OF WEA	_ AT WHICH NON-COA Y A SPLIT SPOON SA	WOULD YIELD SPT REFUSAL IF T STAL PLAIN MATERIAL WOULD Y AMPLER EQUAL TO OR LESS THA ANSITION BETWEEN SOIL AND R	YIELD AN Ø.
AS V	S MINERALO VERY STIFF.G	GICAL COMPO RAY,SILTY CLAY	SITION, ANGULAR MOIST WITH INT	ERBEDDED FIN	RE, PLASTICITY E SAND LAYERS	Y,ETC.FO <i>HIGHLY PLA</i>	R EXAMPLE ASTIC.A-7-6	•				SOIL GRAINS IS D	SIGNATED E	BY THE TERMS:	WEATHERED			3	YS: IN MATERIAL THAT WOULD YIELD	
			END AND	AASHTO	CLASSIFI	CATION	1		ANGULAR, SUBAN			ICAL COMPOS			ROCK (WR)			100 BLOWS PER FO		5 51 1
GENERAL CLASS.		GRANULAR MATE ≤ 35% PASSING			MATERIALS	OR	GANIC MATER	IALS	MINERAL NAM			Z, FELDSPAR, MICA, T		ETC.	CRYSTALLINE	i i			GRAIN IGNEOUS AND METAMORPHI REFUSAL IF TESTED. ROCK TYP	
GROUP	A-1	A-3	A-2		A-6 A-7	A-1, A-2	A-4, A-5		ARE USED IN	1 DESCP		N THEY ARE CONSID	ERED OF SI	GNIFICANCE.	ROCK (CR)		<u>IC.IC.</u>	GNEISS, GABBRO, SO	GRAIN METAMORPHIC AND NON-CO	OASTA
0	A-1-a A-1-b	A-2-4	-2-5 A-2-6 A-2-		A-7-5, A-7-6	A-3	A-6, A-7		SI IGI		OMPRESSIBLE	RESSIBILITY	LL < 31		NON-CRYSTAL			SEDIMENTARY ROCK	K THAT WOULD YEILD SPT REFU DES PHYLLITE, SLATE, SANDSTONE	JSAL
SYMBOL				X					MODE	RATELY	COMPRESSIBLE	LE	LL = 31 · LL > 50	- 50	COASTAL PLA SEDIMENTARY			COASTAL PLAIN SE	EDIMENTS CEMENTED INTO ROCK, CK TYPE INCLUDES LIMESTONE, S	, BUT
	50 MX					GRANULAR	SILT- CLAY	MUCK,				GE OF MATEF			(CP)	_		SHELL BEDS, ETC.	HERING	
	30 MX 50 MX 15 MX 25 MX		85 MX 35 MX 35 M	1X 36 MN 36 MI	N 36 MN 36 MN	SOILS	SOILS	PEAT	ORGANIC MATERIAL	_	GRANULAR SOILS	SILT - CLAY SOILS	OTHE	R MATERIAL	FRESH		ESH CRYSTA		TS MAY SHOW SLIGHT STAINING. F	
MATERIAL PASSING *40 LL PI	_ 6 MX		41 MN 40 MX 41 M 0 MX 11 MN 11 M				5 WITH LE OR	HIGHLY	TRACE OF ORGANIC MU LITTLE ORGANIC MATT MODERATELY ORGANIC HIGHLY ORGANIC	ATTER TER	2 - 3% 3 - 5% 5 - 10% > 10%	3 - 5% 5 - 12% 12 - 20% > 20%	TRACE LITTLE SOME HIGHLY	1 - 10% 10 - 20% 20 - 35% 35% AND ABOVE		HAMMER I ROCK GEN CRYSTALS	IF CRYSTAL NERALLY FR S ON A BRO	LINE. RESH, JOINTS STAINED, DKEN SPECIMEN FACE	SOME JOINTS MAY SHOW THIN CL SHINE BRIGHTLY. ROCK RINGS UND	LAY C
GROUP INDEX	0	0 0	4 MX				ERATE NTS OF	ORGANIC				UND WATER			SLIGHT		YSTALLINE I		AND DISCOLORATION EXTENDS INT	
USUAL TYPES S OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		TY OR CLAYEY WEL AND SAND	SILTY SOILS	CLAYEY SOILS	ORC	GANIC TTER	SOILS				BORE HOLE IMMEDIA		DRILLING	(SLI.) MODERATE	1 INCH. O CRYSTALS	OPEN JOINTS S ARE DULL	S MAY CONTAIN CLAY. AND DISCOLORED. CF	IN GRANITOID ROCKS SOME OCCAS RYSTALLINE ROCKS RING UNDER HA SCOLORATION AND WEATHERING EF	SIONA
GEN. RATING AS SUBGRADE		EXCELLENT TO	GOOD	FAIR	to poor	Fair to Poor	POOR	UNSUITABLE		PERC	CHED WATER, S	SATURATED ZONE, OF		RING STRATA	(MOD.)	GRANITOI	ID ROCKS, MO	OST FELDSPARS ARE D	DULL AND DISCOLORED, SOME SHOW SHOWS SIGNIFICANT LOSS OF STRE	W CLA
			BGROUP IS ≤ LL			> LL - 30			- O-W-		ING OR SEEP					ALL ROCK	К ЕХСЕРТ О		R STAINED. IN GRANITOID ROCKS,	
			NSISTENC		STANDARD	RAN	GE OF UNC		<u> </u>		MISCELLA	NEOUS SYMBO	<u>ILS</u>		SEVERE (MOD. SEV.)				KAOLINIZATION. ROCK SHOWS SEVE ST'S PICK. ROCK GIVES "CLUNK" SO	
PRIMARY S		CONS	TNESS OR STENCY	PENETRATIO	N RESISTENCE (ALUE)	COMP	RESSIVE S (TONS/F)	STRENGTH	L ROADWAY EMB			OF ROCK STRU OF ROCK STRU		SLOPE INDICATOR	SEVERE (SEV.)	ALL ROCK REDUCED	K EXCEPT O IN STRENG	TH TO STRONG SOIL.	R STAINED. ROCK FABRIC CLEAR A IN GRANITOID ROCKS ALL FELDSPO	
GENERAL GRANULA	AR		DOSE M DENSE		FO 10/ TO 30/		N/A					VST PMT		INSTALLATION				OME FRAGMENTS OF S <u>TELD SPT N VALUES</u>	TRONG ROCK USUALLY REMAIN. > 100 BPF	
MATERIA (NON-CO		DE	NSE DENSE SOFT	>	TO 50 50		< 0.25		ARTIFICIAL FI	Y EMBA	алкмелт प	AUGER BORING	@ 。	CONE PENETROMETER TEST SOUNDING ROD	VERY SEVERE (V SEV.)	BUT MASS	S IS EFFEC	TIVELY REDUCED TO S	R STAINED. ROCK FABRIC ELEMEN' SOIL STATUS, WITH ONLY FRAGMEN F ROCK WEATHERED TO A DEGREE	NTS O
GENERAL SILT-CL MATERIA (COHESI)	AY AL	S MEDIU S	OFT M STIFF IFF STIFF	2 4 8	TO 4 TO 8 TO 15 TO 30		0.25 TO 0.5 TO 1 TO 2 2 TO 4	0.5 1.0					ill 🔶	TEST BORING WITH CORE	COMPLETE	ROCK RED SCATTERE	DUCED TO S ED CONCENT	OIL. ROCK FABRIC NO	AIN. <u>IF TESTED, WOULD YIELD SP</u> T DISCERNIBLE, OR DISCERNIBLE (Y BE PRESENT AS DIKES OR STRI	ONLY
CORESIN	VE)	н	ARD	>	30		> 4	•	ALLUVIAL SOI			INSTALLATION		- SPT N-VALUE		ALSU AN	EXAMPLE.	воск н	ARDNESS	
			TEXTURE	OR GRAI	N SIZE							DATION SYMB			VERY HARD	CANNOT E	BE SCRATCH		RP PICK. BREAKING OF HAND SPEC	CIMEN
U.S. STD. SIE OPENING (MN			4 10 4.76 2.00	40 0.42	60 200 0.25 0.075						ICLASSIFIED E ISUITABLE WAS		ACCEPT است‴∗	SSIFIED EXCAVATION - ABLE, BUT NOT TO BE	HARD			IS OF THE GEOLOGIST	′S PICK. NLY WITH DIFFICULTY. HARD HAMM	
BOULDEF	R CO	BBLE	GRAVEL	COARSE	FINE		SILT	CLAY	SHALLOW UNDERCUT		CLASSIFIED E	XCAVATION - GRADABLE ROCK		N THE TOP 3 FEET OF (MENT OR BACKFILL	TIAND		CH HAND SP			
(BLDR.) GRAIN MM	(C	(OB.) 75	(GR.) 2.0	SAND (CSE. SD.)	SAND (F SD. 0.25		(SL.) 0.005	(CL.)	AR - AUGER REFUSAL		MED	REVIATIONS MEDIUM	VST	- VANE SHEAR TEST	MODERATELY HARD	EXCAVATE		BLOW OF A GEOLOGI	OUGES OR GROOVES TO 0.25 INCH ST'S PICK. HAND SPECIMENS CAN	
SIZE IN.		3							BT - BORING TERMINATED	J		 MICACEOUS MODERATELY 		- WEATHERED UNIT WEIGHT	MEDIUM HARD				DEEP BY FIRM PRESSURE OF KN PEICES 1 INCH MAXIMUM SIZE BY I	
	MOISTURE	SCALE	FIELD MC	DISTURE	GUIDE FOR F			SCRIPTION	CPT - CONE PENETRATION CSE COARSE		NP - M ORG	NON PLASTIC ORGANIC	Ϋ́d-	DRY UNIT WEIGHT	SOFT	POINT OF	F A GEOLOGI	IST'S PICK.	KNIFE OR PICK. CAN BE EXCAVATE	
	ERBERG LI	MITS)	- SATURA	TED -	USUALLY LIC	DUID; VERY	WET, USU	ALLY	DMT - DILATOMETER TES DPT - DYNAMIC PENETRA e - VOID RATIO		EST SAP	PRESSUREMETER TI SAPROLITIC SAND, SANDY	S - E	MPLE ABBREVIATIONS BULK SPLIT SPOON	VERY	PIECES C	CAN BE BROK	KEN BY FINGER PRESS	BY MODERATE BLOWS OF A PICK SURE. AVATED READILY WITH POINT OF	
LL _ PLASTIC		LIMIT	(SAT.)		FROM BELOW				F - FINE FOSS FOSSILIFEROUS FRAC FRACTURED, FRAC	TURES	SLI	SILT, SILTY SLIGHTLY TRICONE REFUSAL	RS -	SHELBY TUBE ROCK RECOMPACTED TRIAXIAL	SOFT	OR MORE FINGERNA	IN THICKNE AIL.	ESS CAN BE BROKEN I	BY FINGER PRESSURE. CAN BE SCF	RATCH
RANGE <			- WET -	(W)	ATTAIN OPTI				FRAGS FRAGMENTS HI HIGHLY		<i>w</i> - м V - VE	IOISTURE CONTENT	CBR	- CALIFORNIA BEARING RATIO	F TERM	RACTU	JRE SPA	ACING SPACING	BEDDII TERM	NG
ОМ		M MOISTURE	- MOIST	- (M)	SOLID; AT OF	r near oi	PTIMUM MC	DISTURE	EQU DRILL UNITS:		ENT USED	ON SUBJECT		-	VERY WIDE WIDE MODERATEI		3	THAN 10 FEET TO 10 FEET TO 3 FEET	VERY THICKLY BEDDED THICKLY BEDDED THINLY BEDDED	1 Ø.
32			- DRY -	(D)	REQUIRES AD			D	X CME-45C		CLAY BITS 6" CONTINUOU	S FLIGHT AUGER	CORE SIZ	TOMATIC MANUAL	CLOSE VERY CLOS	SE		16 TO 1 FOOT THAN 0.16 FEET	VERY THINLY BEDDED THICKLY LAMINATED THINLY LAMINATED	0.0 0.00 <
	1		PLA	STICITY							8 HOLLOW AU		□-в_	н					RATION	
	PLASTIC		PLAST	0-5 6-15	(PI)	DI	RY STRENC VERY LOW SLIGHT		CME-550		HARD FACED	DE INSERTS			FOR SEDIMEN		.KS, INDURA	RUBBING WITH	NING OF MATERIAL BY CEMENTIN FINGER FREES NUMEROUS GRAIN BY HAMMER DISINTEGRATES SAM	NS;
MOD	ERATELY PLASTI	LASTIC		16-25 6 OR MORE			MEDIUM					W∕ ADVANCER 2_ ¹⁵ ∕16•STEEL TEETH	P09	ST HOLE DIGGER	MODER	ATELY INC	IDURATED	GRAINS CAN BE	E SEPARATED FROM SAMPLE WIT Y WHEN HIT WITH HAMMER.	
			(COLOR					1		TRICONE	* TUNGCARB.		JNDING ROD	INDURA	TED			IFFICULT TO SEPARATE WITH ST BREAK WITH HAMMER.	TEEL
			OR OR COLOR T, DARK, STREA								CORE BIT			NE SHEAR TEST	EXTRE	MELY INDU	URATED	SHARP HAMMER	BLOWS REQUIRED TO BREAK SA	AMPL

project reference no. SF-450010

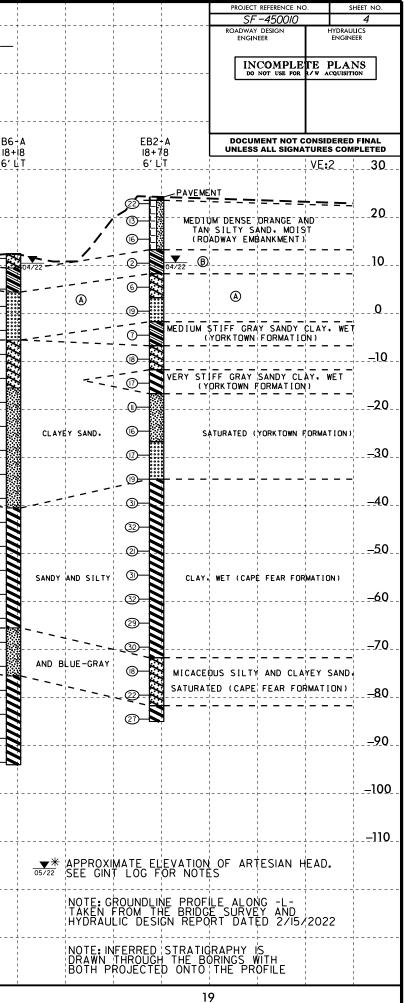


	TERMS AND DEFINITIONS
ED. AN INFERRED SPT REFUSAL.	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.
I FOOT PER 60	AQUIFER - A WATER BEARING FORMATION OR STRATA.
IS OFTEN	ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.
	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING
N VALUES >	A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.
N VHLUES /	ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT
ICK THAT	WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND
CLUDES GRANITE.	SURFACE.
	CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
AL PLAIN IF TESTED.	COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM
C.	OF SLOPE.
MAY NOT YIELD STONE, CEMENTED	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED
TONE, CEMENTED	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
RINGS UNDER	ROCKS OR CUTS MASSIVE ROCK.
	<u>DIP</u> - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.
OATINGS IF OPEN,	
AMMER BLOWS IF	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
ICK UP TO	SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
L FELDSPAR R BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
S. IN	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM
Y. ROCK HAS	PARENT MATERIAL.
AS COMPARED	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
ELDSPARS DULL	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
OSS OF STRENGTH WHEN STRUCK.	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
WHEN STROCK.	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO
VIDENT BUT	LEDGE " A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE INICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.
ARE KAOLINIZED	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.
RE DISCERNIBLE F STRONG ROCK	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE
ONLY MINOR	OF AN INTERVENING IMPERVIOUS STRATUM.
ALUES < 100 BPF	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
IN SMALL AND	ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF
5. SAPROLITE IS	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
S REQUIRES	ROCK.
	SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND
LOWS REQUIRED	RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
EEP CAN BE	<u>SLICKENSIDE</u> - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.
ETACHED	STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF
R PICK POINT.	A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL
BLOWS OF THE	WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL
	TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.
FRAGMENTS	STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
T. SMALL, THIN	
PIECES 1 INCH	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
ED READILY BY	THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.
	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
	DENCH MARK. 72 IAS
THICKNESS	BENCH MARK: 72 JAS
4 FEET	<u>X=2543504.9830</u> Y=1015970.8858 ELEVATION: 25.17 FEET
.5 - 4 FEET	
16 - 1.5 FEET 13 - 0.16 FEET	NOTES:
08 - 0.03 FEET	
0.008 FEET	-
AT, PRESSURE, ETC.	
EEL PROBE:	
PROBE;	
·	
1	DATE: 8-15-14



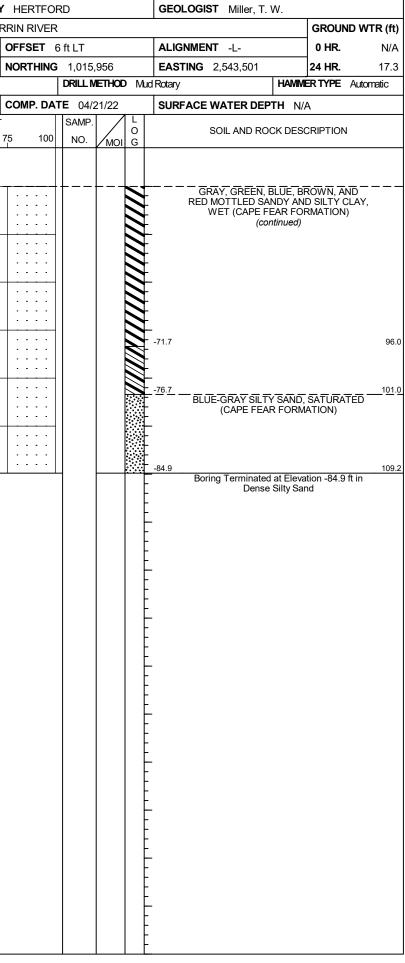
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_30		EBI-A 14+90 6' LT		BI-A I5+5I 7′ LT	B2-A I6+00 7′ LT		B3+A 16+∕67 71 ⊥ T 05/22	*	B4-A I7+I2 6' LT	B5-A I7+69 6' L T	
	-LOOSE-TAN-AND-ORANG SILTY SAND, MOIST (ROADWAY EMBANKMENT	SE©⊑∦` ') @⊑									
_10	VERY SOFT GRAY SILTY - CLAY, MOIST CALLUVIAL	,	<u>-</u>	- \ \		FACE 05/22		0			
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10	VERY STIFF GRAY SAND AND SILTY CLAY, WET - (YORKTOWN-FORMATION				- <u>-</u>						·
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	STIFF TO	32-	HARD GRAY.		3-1	BROWN, RED, TAN	3-	AND PURPLE	SILT AND		TTLED
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	RY LOOSE TO MEDIUM DENS DWN SAND, SILTY SAND AN D WOOD FRACMENTS, MDIST	SE GRAY. TAN. ORANGE	E AND GRAVEL	I I I I I I I I I	37-		37-122				
	 		UVIAL) 	, , ,	·						·
B VE SA	RY SOFT TO MEDIUM STIFF NDY CLAY, MOIST TO WET	GRAY SILT AND (ALLUVIAL)									
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-	BP1.R003.1 DESCRIPTION	ייחס			P SF-450							GEC	DLOGIST Miller, T. W.	000			BP1.R		ppip			P SF-450			
			JGE N		•	,								_	JND WTR (ft)					GE N			R 1311) OVI		-
	NG NO. EB1-			_	TATION 1		~					_		0 HR			NG NO.							<i>c</i> .	0
	AR ELEV. 24					TH 109.2	ft	NORTHING			<u> </u>		TING 2,543,501	24 HR			AR ELE						PTH 109.2	ft	N
	. RIG/HAMMER EF		E GFC					1	DRILLI						E Automatic					= GFC			%11/23/2021		—
DRIL	LER Walker, (E 04/12/2		COMP. DA			.	SUR	FACE WATER DEPTH N	I/A			LER W						FE 04/12/2		C
ELEV (ft)	DRIVE ELEV (ft) DEPTH	BLC			0		PER FOOT		SAMP	17	Ō		SOIL AND ROCK DES	SCRIPTIC	DN	ELEV (ft)	DRIVE ELEV	DEPTH (ft)	BLO	W CO		0		PER FOO	
(11)	(ft) (II)	0.5π	0.5ft	0.5ft	0	25	50	75 100	NO.		I G	ELEV.	(ft)		DEPTH (ft)	(11)	(ft)	(14)	0.5π	0.5ft	0.5π	0	25	50	75
25												-24.3	GROUND SURF		0.0	-55							Mato	h Line	
	23.5 - 0.8	6	4	4								- 23.5	PAVEMENT ROADWAY EMBAN					-					: <i> </i> ::::		:
20	20.3 + 4.0				: [: : : :							-	TAN AND ORANGE SILTY		MOIST	-60	-58.4 -	82.7	8	10	15		25		:
	+	4	3	3	6 ,						L	-				-00	+	-					· <u> </u>		.
	16.6 - 7.7				:\:::							-					-63.4	- - 87.7				· · · ·	: :\. : :		:
15	+	4	5	5	10							-				-65	-	-	11	14	23				<u>·</u>
	t				./ /							13.3			<u>11.0</u>		1	-				· · ·	: //:::		:
	11.6 + 12.7	wон	WOH	1	<i> i</i> ::::							-	GRAY SILTY CLAY			-	-68.4	92.7	8	9	13		· / · · · ·		:
10	\pm											-				-70	-	-	Ŭ	Ŭ	10		● 22		+
	. Ŧ											8.3	ORANGE AND BROWN		AND, <u>16.0</u>			-							.
5	<u>6.6</u> + 17.7	3	3	4	7						-	-	MOIST TO SATUR	RATED		-75	-73.4 -	97.7	8	11	16		27		:
-	Ŧ				- 							- 3.3			21.0		1	-							
	1.6 + 22.7				:៉ុ::						0000		GRAY SAND WITH SATURATE	GRAVEL	,		-78.4	- - 102.7				· · · ·	: : X. : :		:
0	‡	6	6	6	12						0000	-	0, 11 01 01 11 2			-80	4	-	6	16	25		• • • • • • • • • • • • • • • • • • • •		
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	-3.4 - 27.7	16	11	13	``							4.4			28.7		-83.4	107.7	12	17	20		· · · · ·		
-5	+						<u> </u>					-	COASTAL PL/ GRAY SILTY AND SAND					-			-		•37		
	-84 - 327											-6.7	(YORKTOWN FOR	MATION)	WEI 31.0		-	-							
-10	<u>-8.4</u> + 32.7 +	5	8	12		20						-					-	-							
	Ŧ											- - <u>-11.7</u>			36.0		-	-							
	-13.4 - 37.7			- 10	:::;			· · · · · ·				-	BLUE-GRAY AND GREEN SILTY SAND, SATURATED	N MICACI D (YORK	EOUS TOWN		1	-							
-15	‡	8	7	10	<u> </u>	7						-	FORMATION				+	-							
	‡							· · · · · ·				-					1	-							
	-18.4 + 42.7	5	8	9								-					+	-							
-20	+				<u>- · · · ·</u>							-					-	-							
	-23.4 + 47.7				: : : : :			.				-					1	-							
-25	<u></u>	5	7	9	10	6	· · · ·					-					_	-							
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	-28.4 - 52.7	0	6	10				.				-					1	-							
-30	+	8	6	10	•1e	6						-					4	-							
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25	-33.4 + 57.7	7	9	13		22						-					+	-							
-35	+				 i	•~~ 	· · · ·								61.0		4	-							
-30 -35 -40	-38.4 + 62.7				<i> </i> . 								GRAY, GREEN, BLUE, E		AND		1	-							
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	Ŧ					<u> </u>						-					-	-							
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SHEET 5 OF 12



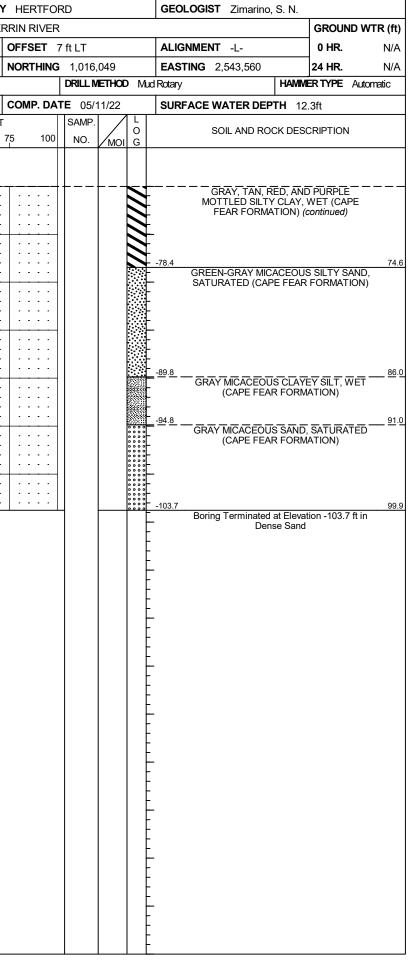
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WBS	BP1.R0	003.1			TI	P SF-4	15001	0	COUNT	Y HERT	FOR	D			GE	OLOGIST Zimaring	, S. N.	1	_	S BP1.F	R003.1			TI	P SF-450	010	COUNT	۲Y
SITE	DESCRIF	PTION	BRI	DGE N	IO. 10 (ON -L- (SR 13	811) OVE	ER MEHE	RRIN RIV	/ER							GROUND WTR (f) SIT	E DESCR	IPTION	BRID	DGE N	0. 10 0	ON -L- (SR	1311) OVE	ER MEHE	ΞR
BORI	NG NO.	B1-A			S	TATION	15+	51		OFFSET	F 7	ft LT			AL	IGNMENT -L-		0 HR. N/.	BO	ring no.	B1-A			ST	TATION 1	5+51		0
COLL		V. 5.0) ft		т	OTAL D	EPTH	105.0	ft	NORTH	ING	1,016	6,008		EA	STING 2,543,534		24 HR. N/.		LAR EL	EV. 5.	0 ft		тс	DTAL DEP	TH 105.0	ft	N
DRILL	RIG/HAMI	VIER EF	F./DAT	E GFO	20075 C	ME-45C	87%11	/23/2021		1		DRILLI	METHO	DD M	lud Rota	ſy	HAMM	ER TYPE Automatic	DRI	L RIG/HAI	VIMER EF	F./DAT	E GFC	20075 C	ME-45C 87%	611/23/2021		_
DRIL	LER Wa	alker, C	C. M.		S	TART D	ATE	05/09/2	2	COMP.	DAT	E 05/	/10/22		SU	RFACE WATER DEI		3ft	DRI	LLER V	Valker, 0	C. M.		ST	ART DAT	E 05/09/2	22	0
				w co					PER FOO			SAMP							ELE	, DRIVE			w co				PER FOO	
(ft)	ELEV (ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	:	50	75 1	00	NO.	Имо	O I G	ELEV	SOIL AND RC	OCK DES	CRIPTION DEPTH	(ft)	ELEV (ft)	(ft)		0.5ft	0.5ft	0	25	50	7
10																			-70							Mate	ch Line	
	+														F					+	+		+	+		7	<u> </u>	.
	‡														Ę			5/00/22)		-73.5	+ + 78.5							
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0	0.3	. 4.7	2	2	1	3					-			0000					-80		ŧ				· · · · ·	Q 28	<u> </u>	-
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-5	-3.5 +	8.5	5	8	9	_```	1 7							0000 0000 0000	È				-85	-83.5	<u>+ 88.5</u> _	12	15	18		•33		
	Ŧ														<u>-6.0</u>			IN1	.0		Ŧ							
	-8.5 +	13.5					- - -			.	-				-	BLUE-GRAY MIC SATURATED (YO	ACEOUS	SILTY SAND,		-88.5	93.5							•
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	-18.5 +	23.5					: <i>i</i>	· · · · ·							-					-98 5	+ + 103.5					<u>:</u> /:::		
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40	-38.5 +	43.5	7	9	10						:				ŧ	CLAY, WET (CAF	C FEAR	FURIVIA HUN)			‡							
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-70								20	1				-		L						L	I	I	· · · · ·				

SHEET 6 OF 12

HERTFOF	RD			GEOLO	GIST Zimarino,	S. N.			
RRIN RIVER							GROUN	ID WTI	R (ft)
OFFSET 7	' ft LT			ALIGNN	IENT -L-		0 HR.		N/A
NORTHING	1,016,	800		EASTIN	G 2,543,534		24 HR.		N/A
	DRILL M) Muc	Rotary		HAMIME	RTYPE	Automa	atic
COMP. DAT	E 05/1	0/22		SURFAC	E WATER DEP	TH 0.8	ft		
	SAMP.		L O	•	SOIL AND ROO		RIPTION		
75 100	NO.	моі	G						
	 		$ \downarrow $	-71.0					76.0
					GRAY CLAYEY SIL FORM		(CAPE F	EAR	_ 10.0
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+				-81.0					86.0
					GREEN-GRAY MIC ILTY SAND, SATU FORM		S SAND / (CAPE F	AND EAR	
· · · ·			E		FORM	/ATION)			
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			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-100.0					105.0
	1		-		oring Terminated		ion -100.0) ft in	100.0
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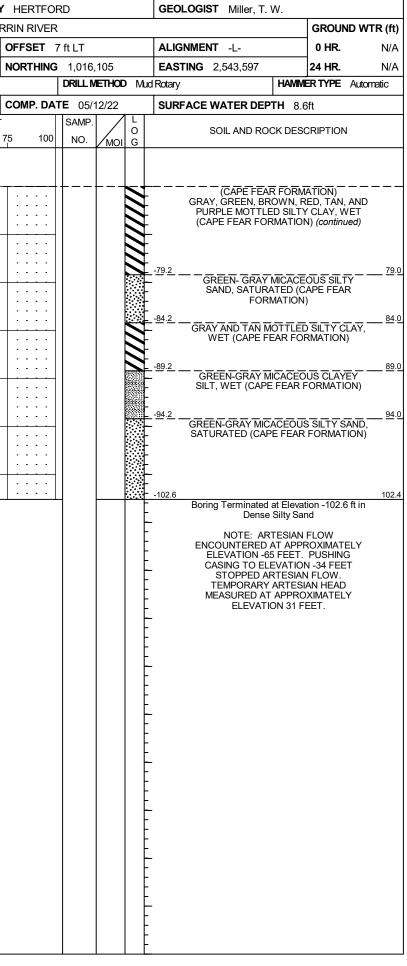
DBL.B.P.MAREPERANE COUNT OF EARLY PARAMET VER. AUXION PARAMET VER. AUXION DBL.B.P.MARE.P.C.M.E. 0.000 DEPART PARA COUNT OF EARLY PARAMET VER. AUXION DBL.B.P.MARE.P.C.M.E. 0.000 DEPART PARA COUNT OF EARLY PARAMET VER. AUXION DBL.B.P.MARE.P.C.M.E. DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART PARA DEPART PARA DEPART PARA DEPART PARA DEPART PARA S.S. DEPART								1																,		
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COLLARE LIV	SITE	DESCR	RIPTION	BRII	DGE N	0.10	ON -L- (SR 1311) OV	ER MEHE	RRIN RIVEF	8			1			ft)	SITE	DESCR	IPTION	BRID	GE NC). 10 C)N -L- (SR 1	311) OVE	R MEHE	
DRL BOWWEETTONE DRL BOWEETTONE DRL BO															0 HR. N	/A						_				<u>_</u> 0
DBILLER PUICE D DIARTO ANTE 65:02 COMPOSITION CONTRACT NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO ANTE 65:02 DIARTO ANTE 65:02 NN DIARTO MUNICIPACIONE DIARTO MUNICIPACIONE DIARTO MUNICIPACIONE NN DIARTO MUNICIPACIONE DIARTO MUNICIPACIONE DIARTO MUNICIPACIONE </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>t</td> <td>NORTHING</td> <td></td> <td>N</td>								t	NORTHING																	N
naver Control (1) 1000 (2000) 1000 (2000) 1000 (2000) (200	DRILL	. RIG/HAI	VIMER EF	F./DAT	E GFO	20075 (CME-45C 87% 11/23/2021			DRILL N	/IETHOD	M	ud Rotary	HAMM	ER TYPE Automatic		DRILL	. RIG/HAN	IMER EF	-F./DATE	GFO	0075 CN	√E-45C 87%1	1/23/2021		
III IIII IIII IIII IIII IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						S	TART DATE 05/10/2	2	COMP. DA	TE 05/	11/22		SURFACE WATER DEP	TH 12	.3ft		DRIL	LER Pi	nter, D	. G.		ST	ART DATE	05/10/22	2	С
01 01 00 05 03 0.5 01 01 01 01	ELEV	DRIVE	DEPTH	BLC			4	PER FOO	T	SAMP.		L						DRIVE	DEPTH	BLO	w cou	NT		BLOWS F	PER FOO	π
3 3 3 5 <td>(ft)</td> <td></td> <td>(ft)</td> <td>0.5ft</td> <td>0.5ft</td> <td>0.5ft</td> <td>0 25</td> <td>50</td> <td>75 100</td> <td>NO.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(ft)</td> <td>(ft)</td> <td>(ft)</td> <td>(ft)</td> <td>0.5ft</td> <td>0.5ft</td> <td>0.5ft</td> <td>0 25</td> <td>5 5</td> <td>50</td> <td>75</td>	(ft)		(ft)	0.5ft	0.5ft	0.5ft	0 25	50	75 100	NO.						(ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0 25	5 5	50	75
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SITE DESCRIPTION BRIDGE NO. 10 ON -L- (SR 1311) OVER MEHERRIN RIVER GROUND WTR (ft) SITE DESCRIPTION BRIDGE NO. 10 ON -L- (SR 1311) OVER MEHERRIN RIVER BORING NO. B3-A STATION 16+67 OFFSET 7 ft LT ALIGNMENT -L- 0 HR. N/A COLLAR ELEV0.2 ft TOTAL DEPTH 102.4 ft NORTHING 1.016,105 EASTING 2.543,597 24 HR. N/A BORING NO. B3-A STAT DRILLRGHAMMER EFF.DATE RF00074 OME55 92% (10/12/20 DRILLER/HOD MLd Rotay HAMMER TYPE Automatic DRILLER FILEV0.2 ft TOTAL DRILLER Pinter, D.G. START DATE 05/10/22 COMP. DATE 05/12/22 SURFACE WATER DEPTH 8.6ft DRILLER Pinter, D.G. STAR ELEV DEPTH BLOW COUNT BLOWS PER FOOT SOL AND ROCK DESCRIPTION DRILLER Pinter, D.G. STAR 10 0.51 0.5ft	F-450010 COUNTY - (SR 1311) OVER MEHERF DN 16+67 C . DEPTH 102.4 ft N
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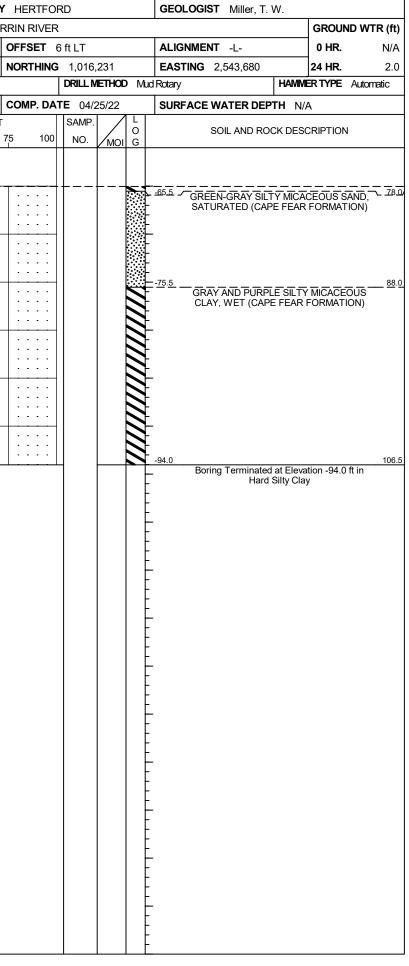
SHEET 9 OF 12

' HERTFORD		GEOLOGIST Miller, T. V	N		
RRIN RIVER				GROUN	ID WTR (ft)
OFFSET 6 ft LT		ALIGNMENT -L-		0 HR.	N/A
NORTHING 1,016,142		EASTING 2,543,622		24 HR.	2.3
DRILL METHOD	Mud	Rotary	HAMME	RTYPE	Automatic
COMP. DATE 05/10/22		SURFACE WATER DEPT	TH N/A	Ą	
75 100 NO. MOI	L O G	SOIL AND ROC	K DESC	RIPTION	
COMP. DATE 05/10/22 SAMP.		SURFACE WATER DEPT SOIL AND ROC SOIL AND ROC GREN-GRAY MICA SATURATED (CAPE -73.6 GRAY-GREEN MICA SATURATED (CAPE -78.6 GRAY-GREEN MICA SATURATED (CAPE -93.6 GRAY-GREEN MICA SATURATED (CAPE -93.6 GRAY-GREEN MICA SATURATED (CAPE -93.6 GRAY-GREEN MICA SATURATED (CAPE -97.8 Boring Terminated		CRIPTION CRIPTION SILTY S. FORMAT CLAY, WE ATION) SILTY S. FORMAT , AND RE WET (C/ DN) SILTY S. FORMAT	AND, ION) T
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WBS BP1.R003.1 TIP SF-450010 O SITE DESCRIPTION BRIDGE NO. 10 ON -L- (SR 1311) OVER <										HERT		D				GEC	DLOGIS	ST Mill	ler, T. V	۷.			WBS BP1.R003.1						TIP SF-450010 COUNTY 10 01							
																		-	ND WTR (ft)							D. 10 ON -L- (SR 1311) OVER MEHE										
	BORING NO. B5-A					_	STATION 17+69					_						ALIGNMENT -L- 0 HR. N/A									STATION 17+69				0					
		R ELEV.					TOTAL DEPTH 110.1 ft 0075 CME-45C 87% 11/23/2021						NORTHING 1,016,190 DRILL METHOD Mud					2,543,653 24 HR. 2.0 HAMMER TYPE Automatic					. EV. 1				OTAL D				NC					
					GFC													Mu							Automatic			MMER E		E GFO						C
DR		R Walke						ATE					COMP. DATE				22		SUR	RFACE	WATE	R DEPT	H N/.	Ą		DRIL		Nalker, (
ELE (ft)		RIVE LEV (ft)	лн t)		W COU 0.5ft		0	2	BLC 5	WS P 5	PER FC	оот 7	5	100	SAMF	17		ŏ			SOIL AN	ND ROC	K DES	CRIPTION		ELEV (ft)		DEPTH		DW CO	UNT 0.5ft		25		50 PER FOC	
()	-	(ft) (1		0.511	0.511	0.51		2	.J	5	і —		J	100	NO.	+	NOI	G	ELEV.	(ft)					DEPTH (ft)	(,	(ft)	(,	0.51	0.51	0.51		25		<u> </u>	75
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l																		Ŀ	11.3		C	ROUND		ACE	0.0		-67.3	78.6	7	10	13		· · /			•
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HERTFOR	RD			GEOLOGIST Miller, T. V	,											
RRIN RIVER						GROUND WTR (ft)										
OFFSET 6	ft LT			ALIGNMENT -L-		0 HR.	N/A									
NORTHING	1,016,			EASTING 2,543,653		24 HR.	2.0									
	DRILL M	ETHOD) Muc	d Rotary	Hamme	RTYPE	Automatic									
COMP. DAT	E 04/2	27/22		SURFACE WATER DEPT	'H N/A	λ										
75 100	SAMP.		L O	SOIL AND ROCK DESCRIPTION												
75 100	NO.	<u>/ MOI</u>	G													
<u> </u>	+						77.0									
				SATURATED (CAPE	E FEAR	FORMAT	, ION)									
				-70.7			82.0									
· · · ·				GREEN-GRAY S (CAPE FEAR			T									
				GRAY MICACEO		TY SAND	87.0									
				SATURATED (CAPE	FEAR	FORMAT	ÍON)									
· · · ·			-	-												
			-	02.2			94.6									
			N	-83.3 GRAY, RED, AND C			AY,									
				- WET (CAPE FE	AR FUF	MATION)									
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				GRAY MICACEC	บริราม	TY SAND	<u>107.0</u>									
				-98.8 SATURATED (CAPE			110.1									
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WBS	BP1.R003.1		TI	P SF-450	010	COUNT	Y HERTFO	RD			GEC	LOGIST Miller, T. W.			WBS BP1.R003.1						TIP SF-450010 COUNTY					
SITE DESCRIPTION BRIDGE NO. 10 ON -L- (SR 1311) OVER MEHER									र					GROUND WT	R (ft)	SITE	DESCR		BRID	DGE N	0. 10 0	10 ON -L- (SR 1311) OVER MEHEI				
BORI	BORING NO. B6-A STATION 18+18							OFFSET	6 ft LT			ALIC	ALIGNMENT -L- 0 HR.			BOR	NG NO.	B6-A			ST	STATION 18+18				
								NORTHING					EASTING 2,543,680 24 HR.			COL	AR EL	EV. 12	2.5 ft		тс	TOTAL DEPTH 106.5 ft				
DRILL	RIG/HAMMER EF	F./DATE	GFC	0075 C	ME-45C 87%	611/23/2021			DRILL	METHO	DМ	ud Rotary	Rotary HAMMER TYPE Automatic			DRILL	. RIG/HAI	VIMER E	FF./DATE	E GFC	20075 C	ME-45C 87%	11/23/2021			
	LER Walker, C			ST	FART DATI	E 04/21/2	22	COMP. DA	TE 04	/25/22		SUR	SURFACE WATER DEPTH N/A			DRIL	LER V	Valker,	С. М.		ST	START DATE 04/21/22				
ELEV	DRIVE ELEV DEPTH	BLO	N COL	JNT		BLOWS	PER FOO	T	SAMP	P. 💙/	L		SOIL AND ROCK DES			ELEV	DRIVE ELEV	DEPTH	BLO	W CO	UNT		BLOWS F	PER FOO	דע.	
(ft)	(ft) (ft)	0.5ft	0.5ft	0.5ft	0	25	50	75 100	NO.	мо		ELEV.			PTH (ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25 5	50	75	
15																-65		L					Matc	h Line		
	+ 12.5 + 0.0											- - 12.5	GROUND SURF	ACE	0.0		67.5	+ 80.0					1::::	· · ·	:	
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10	+				 							9.5	MOIST TO SATUR	RATED	3.0	-70	-	Ŧ				i	\ <u></u>	· · · ·	+	
	Ŧ												GRAY SANDY CLA	Y, WET			-72.5	85.0	8	11	16					
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	-2.5 + 15.0							· · · · · · ·			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-					-82.5	+ + 95.0					/::::		:	
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	-7.5 + 20.0	5	7	9							//	F	BLUE-GRAY AND GREEN SILTY SAND, SATURATED	I CLAYEY AND			-87.5	+ 100.0	10	12	15			· · · ·	:	
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COLLAR ELEV. 24.3 ft TOTAL DEPTH 109.3 ft NORTHING 1,016,281 EASTING 2,543,712 24 HR. 13.7 DRILL RIGHAMMER EFF./DATE GF00075 CWE-45C 87%11/23/2021 DRILL METHOD Mud Rotary HAMMER TYPE Automatic DRILL RIGHAMMER EFF./DATE GF00075 CWE-45C 87%11/23/2021 NORTHING 1,016,281 EASTING 2,543,712 24 HR. 13.7 COLLAR ELEV. 24.3 ft TOTAL DEPTH 109.3 ft N DRILL RIGHAMMER EFF./DATE GF00075 CWE-45C 87%11/23/2021 DRILL METHOD Mud Rotary HAMMER TYPE Automatic DRILL RIGHAMMER EFF./DATE GF00075 CWE-45C 87%11/23/2021 DRILLER Walker, C. M. START DATE 04/11/22 SURFACE WATER DEPTH N/A DRILLER Walker, C. M. START DATE 04/11/22 C ELEV DRIVE DEPTH BLOW COUNT BLOW SPER FOOT SOUL AND BOCK DESCRIPTION ELEV DRIVE DEPTH BLOW COUNT BLOW SPER FOOT									-					1		ı ——													
BORRE DO. BLOA STATION 110-71 OFFERT 101.1 ALLONDERT 1 OPR NAL STATION 110-72 OTTON 110-72 OTTON 110-72 OTTON 110-72 DECK 2002 ND 562/2 STATION 110-72 DECK 2002 ND 562/2 STATION 110-72 DECK 2002 ND 562/2 DECK 2002 ND							IP SF-450	0010	COUNT					GEO	LOGIST Miller, T. W.								TIP SF-450010						
COLLAR LEV. 24.16 TOTAL DEPTH 190.8 MORTHME 1.109.28 TOTAL DEPTH 190.8 TOTAL DEPTH	SITE DESCRIPTION BRIDGE NO. 10 ON -L- (5						ON -L- (SF	יס (1311 א	VER MEHE	RRIN RIVER						GROUND WTR (ft)					DGE N	-		R MEHE	RR				
DRL.BR.WHEEPFANE COUND OLE-LICE	BORING NO. EB2-A						TATION	18+78							NMENT -L-	0 HR. N/A	BOR	ing no.	EB2-/	A		ST	ATION 18		0				
DERLER DEALER Main Dealer <		COLLAR ELEV. 24.3 ft												1	EASTING 2,543,712 24 HR. 13.7				COLLAR ELEV. 24.3 ft TOTAL DEPTH 109.3 ft										
Number LLCW COMM LLCW COMM <thlcw comm<="" th=""> <thlcw comm<="" th=""> <thlcw co<="" td=""><td>DRILL</td><td>rig/Han</td><td>IMER EF</td><td>F./DATI</td><td>E GFC</td><td>0075 (</td><td>CME-45C 87</td><td>%11/23/202</td><td>1</td><td></td><td colspan="4">DRILL METHOD Mud F</td><td>Hamme</td><td>ER TYPE Automatic</td><td colspan="11">DRILL RIG/HAMMER EFF/DATE GF00075 CME-45C 87%11/23/2021</td></thlcw></thlcw></thlcw>	DRILL	rig/Han	IMER EF	F./DATI	E GFC	0075 (CME-45C 87	%11/23/202	1		DRILL METHOD Mud F				Hamme	ER TYPE Automatic	DRILL RIG/HAMMER EFF/DATE GF00075 CME-45C 87%11/23/2021												
Int I	DRILL	ER W	/alker, C	C. M.		S	TART DAT	FE 04/11	/22	COMP. DATE 04/12/22				SUR	ACE WATER DEPTH N/A	٩	DRIL	LER W	/alker, 0	С. М.		ST	ART DATE	04/11/22	2	C			
Int I	ELEV	DRIVE FL FV	DEPTH	BLC	w col	JNT		BLOWS	S PER FOO	T	SAMP.		L			CRIPTION		DRIVE	DEPTH	BLC	w co	UNT		BLOWS P	ER FOOT	ŗ			
23.1 44 10 02 10.2000 00000000000000000000000000000000	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75 100	NO.	моі		ELEV. ((ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0 2	5 5	0	75			
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