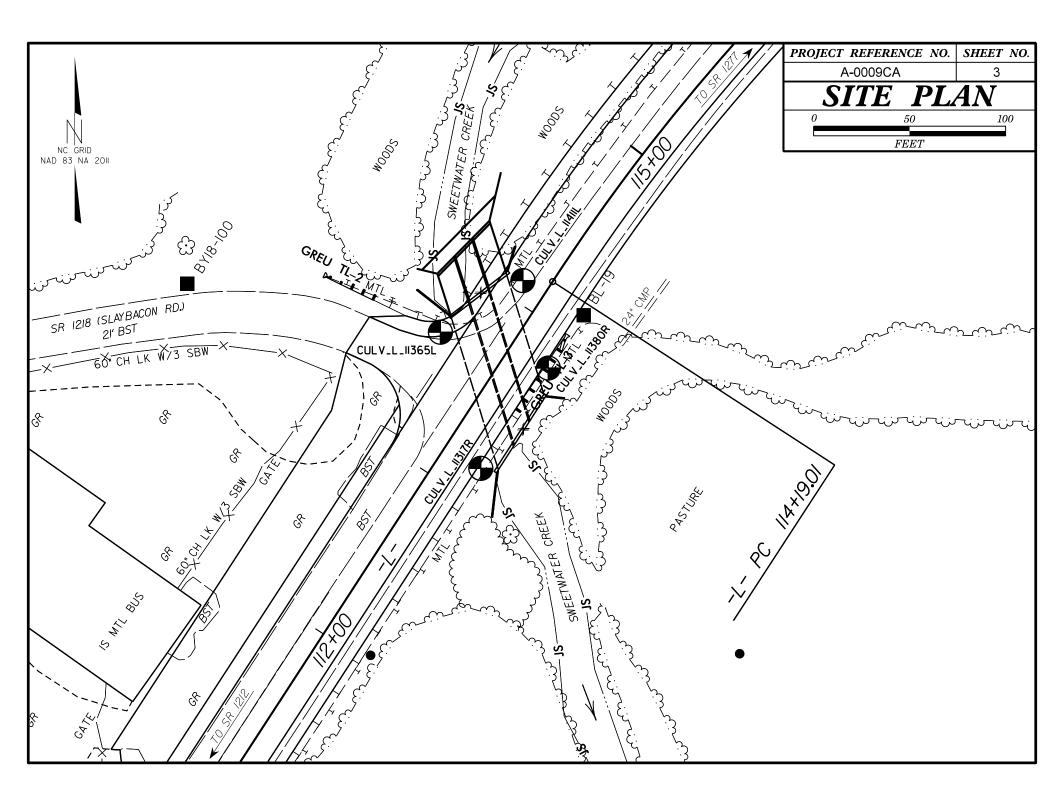
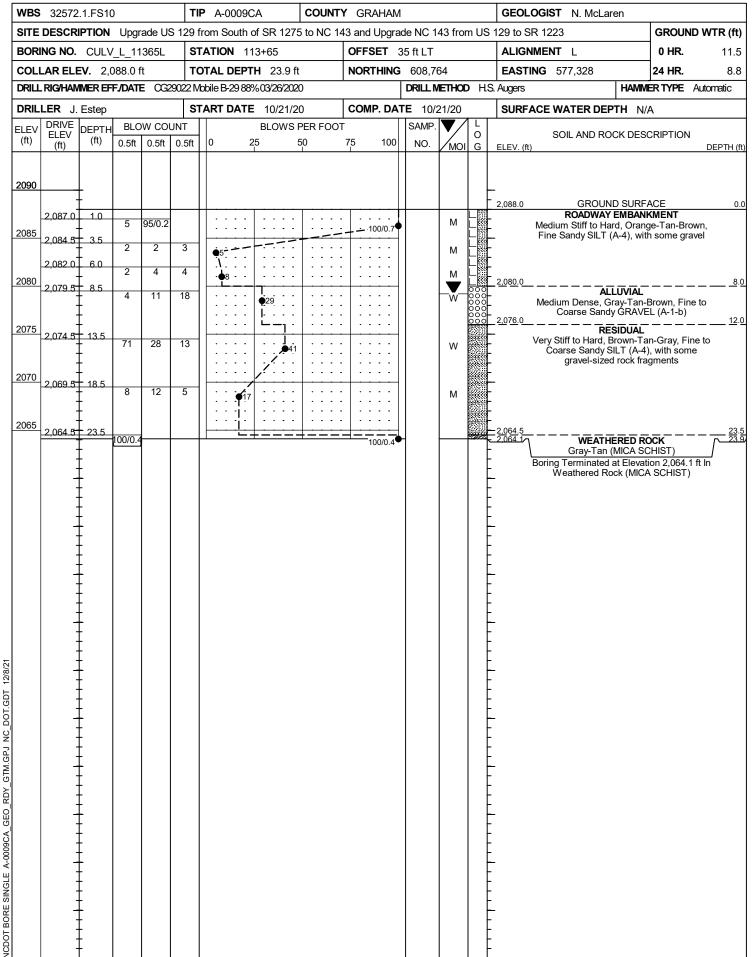


	PROJECT REFERENCE NO.	SHEET NO.									
	A-0009CA	2									
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT											
SUBSURFACE IN	<b>VVESTIGATION</b>										
SOIL AND ROCK LEGEND, TERMS, S (PAGE 1		S									
SOIL DESCRIPTION	GRADATION										
BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT	WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES F UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIM GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO ANGULARITY OF GRAINS	MATELY THE SAME SIZE. O OR MORE SIZES.									
VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6	THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED I ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.	BY THE TERMS:									
SOIL LEGEND AND AASHTO CLASSIFICATION	MINERALOGICAL COMPOSITION										
CLASS.         (<35%, PASSING *200)         (>35%, PASSING *200)         (>35%, PASSING *200)         Underlie	MINERAL NAMES SUCH AS QUARTZ,FELDSPAR,MICA,TALC,KAOLIN ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SI										
CLASS. A-1-a A-1-b A-2-4 A-2-5 A-2-6 A-2-7 A-74 000000000000000000000000000000000000	COMPRESSIBILITY SLIGHTLY COMPRESSIBLE LL < 31										
	MODERATELY COMPRESSIBLE LL = 31 HIGHLY COMPRESSIBLE LL > 50	- 50									
*10 50 MX GRANULAR SILI- MUCK, GRANULAR CLAY PEAT	PERCENTAGE OF MATERIAL										
■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 <u>ORGANIC MATERIAL</u> TRACE OF ORGANIC MATTER 2 - 3% 3 - 5% TRACE	<u>R MATERIAL</u> 1 - 10%									
MATERIAL PASSING *40 LL 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 50LS WITH	LITLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE MODERATELY ORGANIC 5 - 10% 12 - 20% SOME										
PI 6 MX NP 10 MX 10 MX 11 MN 11 MN 10 MX 10 MX 11 MN 11 MN HI MN MODERATE OPENALC	HIGHLY ORGANIC > 10% > 20% HIGHLY										
GROUP INDEX 0 0 0 4 MX 8 MX 12 MX 16 MX NU MX AMUUNIS UP SOILS	GROUND WATER         V       WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING         V       STATIC WATER LEVEL AFTER 24 HOURS         V       PPW         PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA										
OF MAJOR GRAVEL, AND SAND GRAVEL AND SAND SOILS SOILS											
GEN. RATING EXCELLENT TO GOOD EATE TO POOR FAIR TO POOR LINSUITABLE											
AS SUBGRADE         LACLELENT TO 0000         Min TO 0001         POOR         TOUR         Min TO 0001           PI OF A-7-5 SUBGROUP IS ≤ LL - 30         PI OF A-7-6 SUBGROUP IS > LL - 30         P	SPRING OR SEEP										
CONSISTENCY OR DENSENESS	MISCELLANEOUS SYMBOLS										
PRIMARY SOIL TYPE COMPACTNESS OR CONSISTENCY CONSISTENCY (N-VALUE) (NCONFINED CONSISTENCY (N-VALUE) (NCONFIRED) (N-VALUE) (TONS/FT <sup>2</sup> )	ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION SOIL SYMBOL ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT HAN ROADWAY HAN ROADWAY HAN ROADWAY HAN ROADWAY HAN ROADWAY										
VERY LOOSE < 4											
GRANULAR LOOSE 4 TO 10 MATERIAL MEDIUM DENSE 10 TO 30 N/A											
(NON-COHESIVE) DENSE 30 TO 50 (NON-COHESIVE) VERY DENSE > 50											
VERY SOFT         < 2         < 0.25         -           GENERALLY         SOFT         2 TO 4         0.25 TO 0.5         -	INFERRED SOIL BOUNDARY										
MATERIAL STIFF 8 TO 15 1 TO 2											
(COHESIVE)         VERY STIFF         15 TO 30         2 TO 4         +           HARD         > 30         > 4         +	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT										
TEXTURE OR GRAIN SIZE	RECOMMENDATION SYMBOLS										
U.S. STD. SIEVE SIZE 4 10 40 60 200 270 DPENING (MM) 4.76 2.00 0.42 0.25 0.075 0.053		SSIFIED EXCAVATION - TABLE,BUT NOT TO BE IN THE TOP 3 FEET OF									
BOULDER COBBLE GRAVEL COARSE FINE SAND SAND (SL,) (CL,)		KMENT OR BACKFILL									
SIZE IN. 12 3	T - BORING TERMINATED MICA MICACEOUS WEA.	- VANE SHEAR TEST									
SOIL MOISTURE - CORRELATION OF TERMS	PT - CONE PENETRATION TEST NP - NON PLASTIC $\dot{\gamma}_{d}$ -	UNIT WEIGHT DRY UNIT WEIGHT									
(ATTERBERG LIMITS) DESCRIPTION GUIDE FOR FIELD MOISTORE DESCRIPTION DE		AMPLE ABBREVIATIONS									
- SATURATED - USUALLY LIQUID; VERY WET, USUALLY e	- VOID RATIO SD SAND, SANDY SS -	BULK · SPLIT SPOON · SHELBY TUBE									
	OSS FOSSILIFEROUS SLI SLIGHTLY RS -	· SHELBY TUBE · ROCK · RECOMPACTED TRIAXIAL									
RANGE C - WET - (W) SEMISULU; REUDIRES DRYING TO		- CALIFORNIA BEARING RATIO									
	EQUIPMENT USED ON SUBJECT PROJE										
OM _ OPTIMUM MOISTURE FOILT (H) SUED HI ON NEAR OF HOUSTONE OF	RILL UNITS:         ADVANCING TOOLS:         HAMMER           CME-45C         CLAY BITS         X AU	TYPE:									
- DRY - (D) REQUIRES ADDITIONAL WATER TO											
PLASTICITY	Image: Children and Childre	О-н									
PLASTICITY INDEX (PI)         DRY STRENGTH           NON PLASTIC         0-5         VERY LOW	CME-550 HARD FACED FINGER BITS										
SLIGHTLY PLASTIC 6-15 SLIGHT MODERATELY PLASTIC 16-25 MDJUM	VANE SHEAR TEST   CASING W/ ADVANCER   HAND TO										
HIGHLY PLASTIC 26 OR MORE HIGH		IST HOLE DIGGER									
	X MOBILE B-29	UNDING 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.		NE SHEAR TEST									

				PROJECT REFERENCE NO.	SHEET NO.				
				A-0009CA	2A				
			DIVISION OF	ent of transportation highways <b>GINEERING UNIT</b>					
		ULUI							
				<b>VESTIGATION</b> SYMBOLS, AND ABBREVIATIONS OF 2)	Y				
	10 1.01. 001071. D. 11		SCRIPTION OULD YIELD SPT REFUSAL IF TESTED. AN INFERRED	TERMS AND DEFINITIONS					
ROCK LINE: SPT REFUSA BLOWS IN N REPRESENTE ROCK MATER ROCK (WR) CRYSTALLIN ROCK (CR) NON-CRYSTA ROCK (NCR) COASTAL PL SEDIMENTAR (CP) FRESH	INDICATES THE LEVEL L SPENETRATION BUD ION-COASTAL PLAIN 1 D BY A ZONE OF WEE IIALS ARE TYPICALLY E LLINE AIN ROCK FRESH, CRYSTAL HAMMER IF CRYSTAL ROCK GENERALLY FR I INCH, OFEN JOINTS	AT WHICH NON-COA A SPLIT SPOON SA MATERIAL, THE TRA THERED ROCK. DIVIDED AS FOLLOW NON-COASTAL PLAI 100 BLOWS PER FC FINE TO COARSE C WOULD YIELD SPT GNEISS, GABBRO, SC SEDIMENTARY ROCK COASTAL PLAIN SE SPT REFUSAL. ROC COASTAL PLAIN SE SPT REFUSAL. ROC SHELL BEOS.ETC. WEATH S BRIGHT, FEW JOINT SH, JOINTS STAINED. (K) SPECIENEN FACE S JATURE. SH, JOINTS STAINED. (K) STAINED.	STAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. MPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 SUITION BETWEEN SOIL AND ROCK IS OFTEN SI N MATERIAL THAT WOULD YIELD SPT N VALUES > OT IF TESTED. RAIN IGNEOUS AND METAMORPHIC ROCK THAT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE,	ALLUVIUM (ALLUY) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AUTOR AND	Y MINERALS, OR HAVING ATE, ETC. ABOVE THE LEVEL AT ABOVE THE GROUND UM CARBONATE. SLOPE OR AT BOTTOM E CORE BARREL DIVIDED URE OF ADJACENT ED FROM THE TAL TRACE OF THE SPLACEMENT OF THE				
MODERATE (MOD.) MODERATELY SEVERE (MOD. SEV.) SEVERE (SEV.)	GRANITOID ROCKS, MC DULL SOUND UNDER I WITH FRESH ROCK. ALL ROCK EXCEPT DI AND DISCOLORED AND AND CAN BE EXCAVA IF TESTED, WOULD Y, ALL ROCK EXCEPT DI	ST FELDSPARS ARE E HAMMER BLOWS AND S JARTZ DISCOLORED OF A MAJORITY SHOW A FED WITH A GEOLOGIS FELD SPT REFUSAL JARTZ DISCOLORED OF	COLORATION AND WEATHERING EFFECTS. IN ULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS HOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED IS STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL (ADLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH T'S PICK. ROCK GIVES 'CLUNK' SOUND WHEN STRUCK. IS STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT N GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED	FLOAT       - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM         PARENT MATERIAL.       FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.         FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE         FIELD.         JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.         LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO         ITS LATERAL EXTENT.         LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.         MOTILED (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 SEGMENTS EQUAL TO OR OREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE					
VERY SEVERE (V SEV.) COMPLETE	TO SOME EXTENT. SO IF TESTED, WOULD Y, ALL ROCK EXCEPT O BUT MASS IS EFFEC REMAINING, SAPROLII VESTIGES OF ORIGIN. ROCK REDUCED TO SI	ME FRAGMENTS OF S <u>FELD SPT N VALUES</u> JARTZ DISCOLORED OF TIVELY REDUCED TO S E IS AN EXAMPLE OF AL ROCK FABRIC REMA DIL. ROCK FABRIC NO	FRONG ROCK USUALLY REMAIN.						
	HEJO HA EXHILE.	ROCK H	ARDNESS	RUN AND EXPRESSED AS A PERCENTAGE. <u>SAPROLITE (SAP.)</u> - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR	FABRIC OF THE PARENT				
VERY HARD HARD	Several Hard Blow Can be scratched To detach Hand Spi	S OF THE GEOLOGIST' BY KNIFE OR PICK ON ECIMEN.	LY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED	ROCK. <u>SILL</u> - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM T RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMP THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.	THICKNESS AND PLACED PARALLEL TO				
MODERATELY HARD		BLOW OF A GEOLOGI	DUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE ST'S PICK. HAND SPECIMENS CAN BE DETACHED	SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRIC OR SLIP PLANE. STANDARD REMETRATION TEST (REMETRATION RESISTANCE) (RDT) - NUMBER OF					
MEDIUM HARD	CAN BE GROOVED OR CAN BE EXCAVATED	GOUGED 0.05 INCHES IN SMALL CHIPS TO F	DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. EICES I INCH MAXIMUM SIZE BY HARD BLOWS OF THE	STANDARD PENETRATION TEST (PENETRATION RESISTANCE)(SPI) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB HAMMER FALLING 30 NUCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPON SAMPLER, SPT REFUSAL IS PENETRATION EQUAL					
SOFT	FROM CHIPS TO SEVE	GOUGED READILY BY P RAL INCHES IN SIZE	NIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN	TO OR LESS THAN 0.1 FOOT PER 60 BLOWS. <u>STRATA CORE RECOVERY (SREC.)</u> - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.					
VERY SOFT	CAN BE CARVED WITH OR MORE IN THICKNE FINGERNAIL.	SS CAN BE BROKEN E	WATED READILY WITH POINT OF PICK. PIECES 1 INCH Y FINGER PRESSURE. CAN BE SCRATCHED READILY BY	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. <u>TOPSOIL (TS.)</u> - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.					
TERM	FRACTURE SPA	CING SPACING	BEDDING	BENCH MARK: N/A					
VERY WID WIDE MODERATI CLOSE VERY CLO	3 ELY CLOSE 1 0.1 DSE LESS NTARY ROCKS, INDURA	THAN 10 FEET TO 10 FEET TO 3 FEET S TO 1 FOOT THAN 0.16 FEET INDUF TION IS THE HARDEN RUBBING WITH	VERY THICKLY BEDDED 4 FEET THICKLY BEDDED 1.5 - 4 FEET THICKLY BEDDED 0.16 - 1.5 FEET VERY THINLY BEDDED 0.63 - 0.16 FEET THICKLY LAMINATED 0.000 - 0.03 FEET THICKLY LAMINATED < 0.000 FEET ATION ATION ING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. FINGER FREES NUMEROUS GRAINS; 3Y HAMMER DISINTEGRATES SAMPLE.	ELEVATION NOTES: ROADWAY DESIGN FILES DATED 7/11/2021 PROVIDED BY T FIAD = FILLED IMMEDIATELY AFTER DRILLING					
MODE	RATELY INDURATED		SEPARATED FROM SAMPLE WITH STEEL PROBE: WHEN HIT WITH HAMMER.						
INDUF	ATED		FFICULT TO SEPARATE WITH STEEL PROBE: BREAK WITH HAMMER.						
EXTR	EMELY INDURATED		BLOWS REQUIRED TO BREAK SAMPLE; S ACROSS GRAINS.		DATE: 8-15-14				



													UG			1	
WBS	32572	2.1.FS1	0		T	IP A-	0009C	A	COL	JNTY	GR/	AHAM				GEOLOGIST N. McLaren	1
SITE	DESCR	IPTION	l Upg	rade U	S 129	from S	outh o	f SR 12	75 to N	IC 14	3 and	Upgra	de NC 1	43 fro	m US	129 to SR 1223	GROUND WTR (ff
BORI	NG NO.	CUL	V_L_1	1317R	S	ΤΑΤΙΟ	<b>N</b> 11	3+17			OFFS	ET 2	22 ft RT			ALIGNMENT L	<b>0 HR.</b> 9.
COLI	AR ELI	<b>EV.</b> 2,	,086.9	ft	Т	OTAL	DEPTI	<b>H</b> 25.0	ft		NORT	HING	608,6	93		EASTING 577,349	24 HR. 10.1
DRILL	. RIG/HAN	/IMER EI	FF./DAT	E CG	29022 1	/bbile B	-29 88%	603/26/20	020	I			DRILL	<b>IETHO</b>	DHS	Augers HAMIN	LER TYPE Automatic
DRIL	LER J.	Fstep			S	TART	DATE	10/21	/20		COM	P. DA	TE 10/:	21/20			Ά
	DRIVE	DEPTH	BLO	ow co					S PER F				SAMP.		1 - 1	•	
(ft)	ELEV (ft)	(ft)	0.5ft		1	0	2		50		75	100	NO.	Имо	O I G	SOIL AND ROCK DES	CRIPTION DEPTH
	()																
0000																	
2090		ŧ															
	-	Ł														2,086.9 GROUND SURF	ACE
2085	2,085.9	1.0	4	4	5									м	LŁ	ROADWAY EMBAN Stiff, Red-Brown, Fine to 0	
	2,083.4	3.5	3			<u>ד</u> י						: :				2.083.9 Silty CLAY (A-7-5), with ALLUVIAL	
	2,080.9	6.0	3	4	2	<b>6</b>			.					M	F	Very Soft to Medium Stiff, G	ray-Tan, Fine to
2080	-2,000.9-	F 0.0	1	WOH	1	<b>6</b> 1					· ·			w		Coarse Sandy SILT (A-4 organics	), with trace
	2,078.4	8.5	WOH	1 1	2			· · · · · ·		· · ·		::		<b>N</b>			
075	-	ţ							:   : :			::		<b></b>			
2075	2.073.4	- 125				- <b>1</b>					<u> </u>					.2,074.9	12
	2,073.4	13.5	4	3	7		10		:   : :			::		м	E State	Stiff to Very Stiff, Tan-Brov Sandy SILT (A-4), with	
2070	-	ł					\· ·		.						<b>-</b>	(···), ·····	
	2,068.4	18.5					<u>,</u>					• •			F		
		ŧ	5	8	11		<b>Q</b> 19		:   : :			::		м			
2065	-	ŧ					- 1				· ·						
	2,063.4	23.5	7	10	13		: il	· · · · · ·	:   : :	· · ·		::					
		<u> </u>	, '		10		•	23					_	M		2,061.9 Boring Terminated at Eleva	25 tion 2,061.9 ft In
	-	ŧ														Residual Fine Sandy	Silt (Á-4)
	-	Ŧ													I F	Notes:	ad at 1.7
	-	ŧ													F	Boulders Encountere	au al 1.7
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WBS	32572	.1.FS1	)		TI	IP A-0009	)CA	COUNTY	GRAHAM				GEOLOGIST N. McLaren		
SITE	DESCR	PTION	Upgr	ade U	S 129	from South	of SR 1275	5 to NC 14	3 and Upgra	de NC 1	43 fror	n US	3 129 to SR 1223	GROU	ND WTR (ft)
BOR	NG NO.	CULV	/_L_11	380R	S	TATION	113+80		OFFSET 2	23 ft RT			ALIGNMENT L	0 HR.	6.8
COL	AR ELE	<b>IV.</b> 2,0	087.5 f	ť	т	OTAL DEP	<b>PTH</b> 25.0 ft	:	NORTHING	608,74	45		EASTING 577,384	24 HR.	9.9
DRILL	. RIG/HAN	MER EF	F./DATI	E CG2	29022 N	/bbile B-298	8%03/26/2020	0		DRILL N	<b>IETHOD</b>	) Н	S. Augers HA	AMMER TYPE	Automatic
DRIL	LER J.	Estep			S	TART DAT	E 10/21/2	0	COMP. DAT	<b>TE</b> 10/2	21/20		SURFACE WATER DEPTH	N/A	
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLC 0.5ft	W CO 0.5ft	UNT 0.5ft	0		PER FOOT	75 100	SAMP. NO.	МОІ	L O G	SOIL AND ROCK I	DESCRIPTION	N DEPTH (ft)
2090 2085	2,086.5	-	4	3	3	↓ ↓ ∳6.		· · · · ·			M		2,087.5 GROUND SI ROADWAY EMI Medium Stiff, Orange- Coarse Sandy SILT (A-	BANKMENT Fan-Brown, Fi	
0000	2,081.5	-	1	2	3				· · · · · · · · · · · · · · · · · · ·		M W				<u>5.5</u>
2080	2,079.0	8.5		WOH		$ \begin{array}{c}                                     $	· · · · ·	  	· · · · · · · · · · · · · · · · · · ·		Sat.		Very Soft, Red-Brown-C Fine to Coarse Sandy S pebble-sized roc	ILT (A-4), with	i trace
2075	2,074.0	- <u>13.5</u> 	3	3	4	•1•••			· · · · · · · · · · · · · · · · · · ·		w		<u>2.075.5</u> <b>RESID</b> Medium Stiff to Hard, G to Coarse Sandy SILT some gravel-sized ro	ray-Tan-Black (A-4), with tra	ce to
2070	2,069.0	- 	11	22	16		· · · · · · · · · · · · · · · · · · ·	· · · · ·	· · · · ·		м		trace m		
2065	2,064.0	23.5	25	53	34				· · · · · · · · · · · · · · · · · · ·		м		- 2,062.5		25.0
													Boring Terminated at El Residual Fine to Coars		

								BURE		G		1	
WBS	32572	2.1.FS1	0		Т	P A-0009CA	A COUN	NTY GRAH	AM			GEOLOGIST N. McLaren	-
SITE	DESCR	IPTION	Upgi	rade U	S 129	from South of	SR 1275 to NC	143 and Up	grade N	IC 143 fro	m US <sup>·</sup>	129 to SR 1223	GROUND WTR (ft
BORI	NG NO.	CUL\	/_L_11	1411L	S	TATION 114	+11	OFFSET	T 13 ft	LT		ALIGNMENT L	0 HR. 8.5
COLL	AR ELE	<b>EV.</b> 2,	088.6	ft	Т	OTAL DEPTH	24.8 ft	NORTH	<b>NG</b> 60	)8,791		EASTING 577,371	24 HR. 11.0
RILL	RIG/HAN	/IMER EF	F./DAT	E CG	29022 N	/bbile B-29 88%	03/26/2020		DR	ILL METHO	D H.S.	Augers HAMM	ERTYPE Automatic
RILI	ER J.	Esten			S	TART DATE	10/21/20	COMP.		10/21/20		SURFACE WATER DEPTH N/	Δ
LEV	DRIVE	DEPTH	BLC	ow co			BLOWS PER FO			MP. V	1-1		
(ft)	ELEV (ft)	(ft)	0.5ft	-	-	0 25				10. MO	O I G	SOIL AND ROCK DES	CRIPTION DEPTH (
	. ,												DEITIN
2000													
2090		ŧ										2,088.6 GROUND SURF	ACE
-	2,087.6-	1.0	7	8	6		· · · · · · · ·		:	м	- X	ROADWAY EMBAN Medium Stiff to Stiff, Oran	
2085	2.085.1	3.5				· · <b>/</b> <sup>14</sup>			-	M		Fine to Coarse Sandy SILT	
	-	Ŧ	4	3	5	. • • 8 • •				м	L	gravel	
	2,082.6-	<u>+ 6.0</u> +	4	3	2	]			:	м	L		
2080	2,080.1	8.5	1	1	2							2,080.6	8
	-	ŧ	'		2		· · · ·   · ·		:			Soft, Gray-Brown, Fine to SILT (A-4)	Coarse Sandy
	-	ł					<u></u>		:			2,076.6 Dense, Gray-Tan-Black, F	ine to Coarse 12
2075	2,075.1	13.5	23	30	18					м		Sandy GRAVEL (A	4-1-b)
	-	Ŧ					· · · · <b> </b>		:			0.074.0	
070	2.070.1	+ + 10 5					:::: <b>\</b> +÷÷	.ד.   .ד.	:			2,071.6 <b>RESIDUAL</b>	17
	<u>- 2,070. </u>	- 10.5	18	19	49			••68 • • •		w		Very Dense, Gray-Tan-Brov Coarse SAND (A-2-4),	vn, Silty Fine to with some
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