CONTENTS SHEET NO. 4 2 -3 **—** 00 - 5 6,7 4 Ω REFERENCE 4 Ò С ∞ \mathbf{M}

PROJEC

DESCRIPTION

TITLE SHEET

CROSS SECTIONS

SITE PHOTOGRAPH

LEGEND

PROFILE

SITE PLAN

BORE LOGS

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** GEOTECHNICAL ENGINEERING UNIT

STRUCTURE SUBSURFACE INVESTIGATION

COUNTY SAMPSON

PROJECT DESCRIPTION BRIDGE NO. 104 OVER LITTLE COHARIE CREEK ON SR 1233 (AUTRYVILLE ROAD)

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4814	1	8

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOLI TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-6860. THE SUBSIFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CALITORIED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPHIONO OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONSTRUCTIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDENSION OR FOR AN 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 WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

E. MAYR, PE

TRIGON

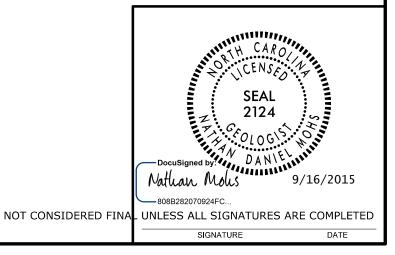
INVESTIGATED BY N. MOHS, LG

DRAWN BY N. MOHS, LG

CHECKED BY D. BROWN, PE

SUBMITTED BY _____ BROWN, PE

DATE SEPTEMBER 2015



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

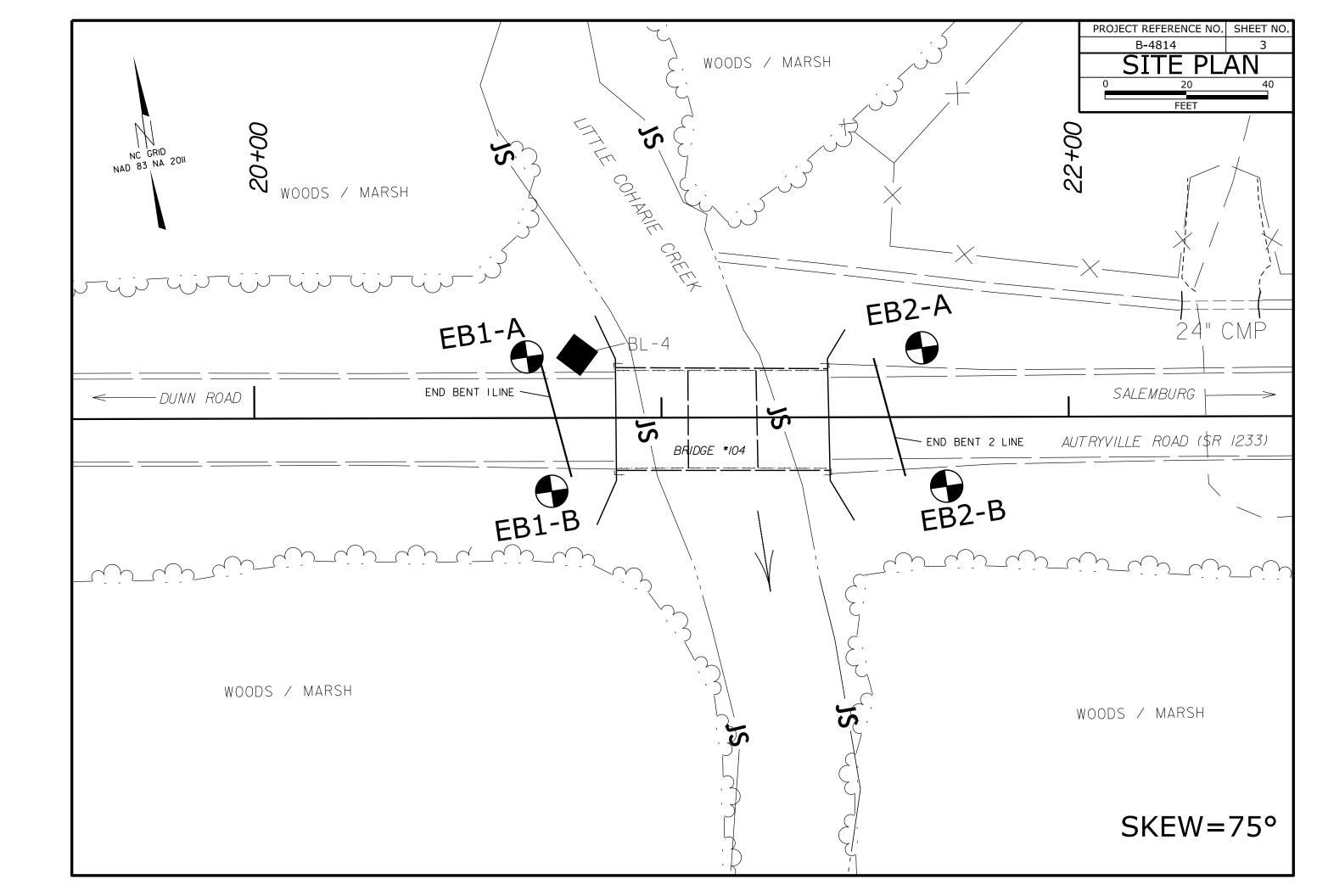
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

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									ORGANIC MATERIA	ALS					N FTC		e 🎾				
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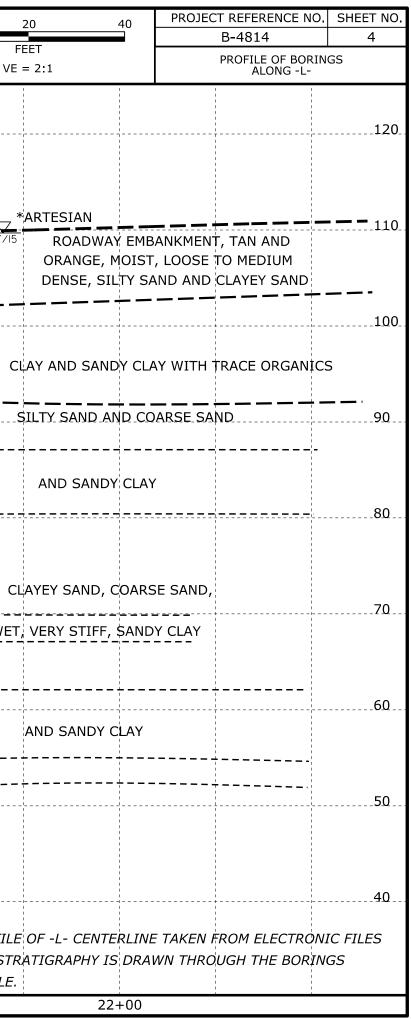
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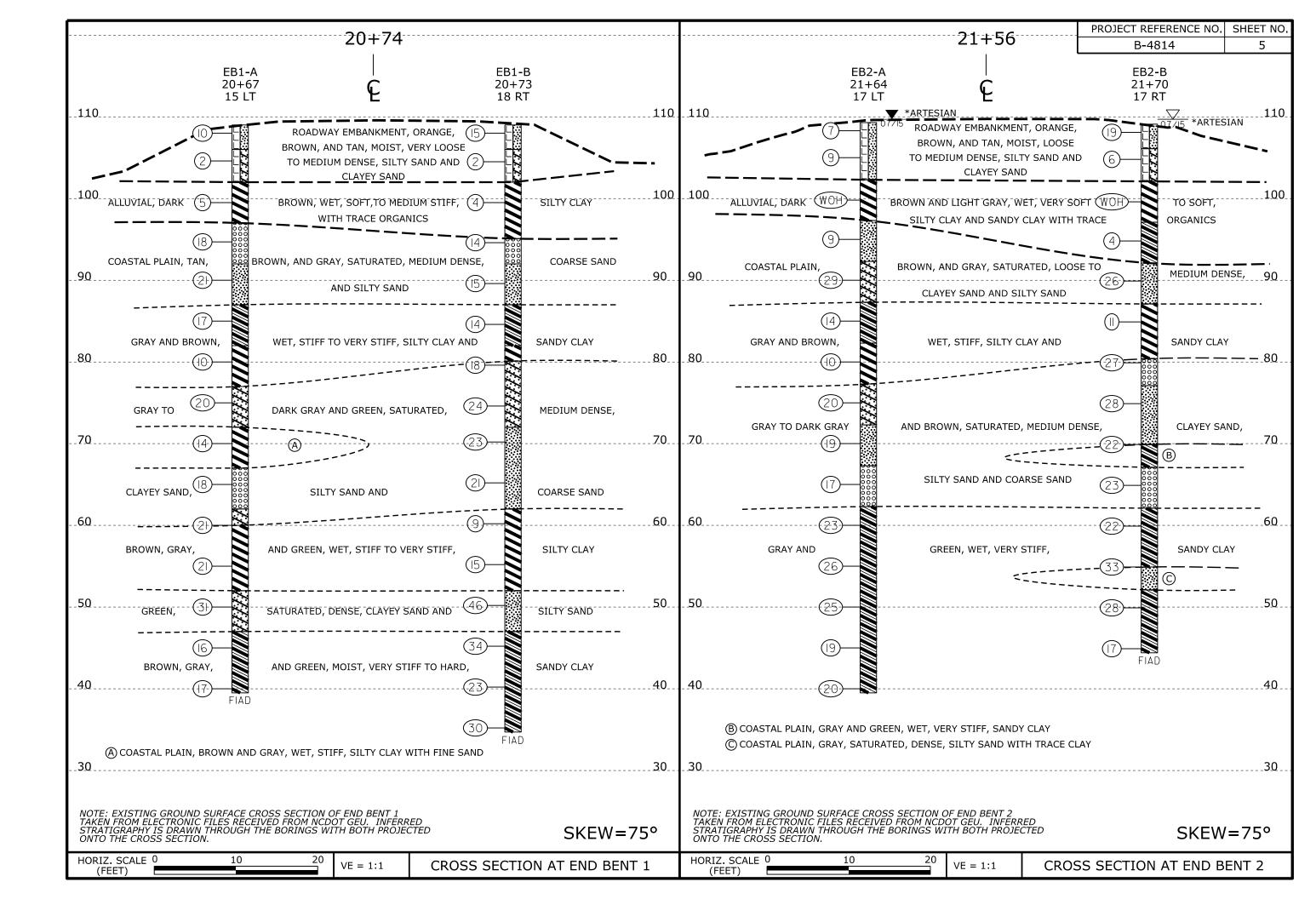


	TERMS AND DEFINITIONS
TED. AN INFERRED	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.
.D SPT REFUSAL. 0.1 FOOT PER 60	AQUIFER - A WATER BEARING FORMATION OR STRATA.
< IS OFTEN	ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.
PT N VALUES >	ARGILLACEOUS - 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.
ROCK THAT	ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND
INCLUDES GRANITE,	SURFACE. CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
TAL PLAIN . IF TESTED. TC.	<u>COLLUVIUM</u> - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
T MAY NOT YIELD DSTONE, 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.
	$\underline{\text{DIKE}}$ - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.
K 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.
ROCK UP TO NAL FELDSPAR	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
ER 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.
TH 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.
EVIDENT BUT ARE KAOLINIZED	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.
	LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS. MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS
ARE DISCERNIBLE	USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.
OF STRONG ROCK	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.
VALUES < 100 BPF	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
Y IN SMALL AND RS. SAPROLITE IS	ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
	SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
INS REQUIRES	Sill - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
DEEP CAN BE DETACHED	SLICKENSIDE - 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.
IN FRAGMENTS INT. SMALL, THIN	<u>STRATA CORE RECOVERY (SREC.)</u> - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
K. PIECES 1 INCH CHED READILY BY	STRATA ROCK QUALITY DESIGNATION (SRQD)- A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.
	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
T. 10/0/500	BENCH MARK: BL-4: N:46096I.07, E:2138238.48
THICKNESS 4 FEET	
1.5 - 4 FEET	ELEVATION: 108.74 FEET
0.16 - 1.5 FEET .03 - 0.16 FEET	NOTES:
008 - 0.03 FEET < 0.008 FEET	FIAD= FILLED IMMEDIATELY AFTER DRILLING
HEAT, PRESSURE, ETC.	
Ε.	
STEEL PROBE:	



			0
120			
		EB1-B 20+73 18 RT	EB2-B 21+70 17 RT
.110	ROADWAY EMBANKMENT, TAN BROWN, AND		
	ORANGE, MOIST, VERY LOOSE TO MEDIUM		
100	ALLUVIAL, BROWN AND LIGHT GRAY		TO DARK GRAY, WET, VERY SOFT TO SOFT, SILTY
-90	COASTAL PLAIN, LIGHT BROWN, LIGHT GRAY		TO DARK GRAY, WET TO SATURATED, MEDIUM DENSE, 26
		(14)	
_80	GRAY AND BROWN TO DARK BROWN,		WET,STIFF, SILTY CLAY
	GRAY TO DARK GRAY AND GREEN,) 24- 1	WET TO SATURATED, MEDIUM DENSE, SILTY SAND,
_70	GRAT TO DARK GRAT AND GREEN,	23	<pre><====================================</pre>
		2)	23-000
_60	BROWN, GRAY AND GREEN,	(15)	WET , STIFF TO VERY STIFF, SILTY CLAY
		46	SATURATED, DENSE, SILTY SAND
	GRAY AND GREEN,	34	
.40	GRAY AND GREEN,	23	WET , VERY STIFF TO HARD, SANDY CLAY
		30 FIAD	NOTE: EXISTING GROUND SURFACE PROF RECEIVED FROM NCDOT GEU. INFERRED WITH BOTH PROJECTED ONTO THE PROFI
	20+00	1	21+00





GEOTECHNICAL BORING REPORT BORE LOG

14/5	0050	4 4 0				D D 404 /									14/20	00504.4						001111-	
	38584					P B-4814			Y SAMPS		/		GEOLOGIST MAYR, E.			38584.1.				P B-4814			
				DGEN					REEK ON S				,					RIDGE			ITTLE CO	NAKIE C	_
	ING NO					TATION 2			OFFSET				ALIGNMENT -L-	0 HR. N/A		ING NO. E		-		TATION 2			0
							TH 69.5 ft		NORTHIN	1			EASTING 2,138,226	24 HR. FIAD		LAR ELEV.					TH 74.3 ft		N
			-				6 02/20/2015					D Mud F	,	IER TYPE Automatic							% 02/20/2015		Τ-
DRIL	LER V	1					E 08/03/1		COMP. DA			<u>ا</u> ا	SURFACE WATER DEPTH N	/A	DRIL						E 07/31/1		C
ELEV (ft)	DRIVE ELEV	DEPTH (ft)						PER FOOT 50	75 100	SAMP.	17	Ō	SOIL AND ROCK DES		ELEV (ft)				-			PER FOOT 50	T 75
(,	(ft)	(,	0.5π	0.5ft	0.5π		20 0		15 100	NO.		G EL	.EV. (ft)	DEPTH (ft)	(,	(ft)	0.5	ft 0.5ft	0.5ft		25 (50	
110	109.0	- 0.0											9.0 GROUND SURF.	ACE 0.0	110	109.0 (.0						
		+	7	5	5	· • • 10 ·					М		ROADWAY EMBAN ORANGE, BROWN, AND TA				4	8	7	· · • 15			
105	105.6	- 3.4				1		· · · · ·	· · · · ·				6.0 ORANGE AND BROWN, C	3.0	105	105.5 + 3	.5						:
	-	ŧ	1	1	1	¢2					M						3	1	1	6 2			
		‡				$ \cdot \cdot \cdot \cdot \cdot $							2 <u>.0</u>	7.0		ļ ļ							:
100	100.5	+ 8.5 +	1	3	2	<u> </u>	· · · ·		· · · · ·		w		DARK BROWN, SILTY CLA		100	100.5 + 8	.5	2	2		· · · ·	· · · ·	·
		‡				■ ³						N.	ORGANICS			+							:
05	95.7	+ 13.3				$\begin{vmatrix} \cdot & \lambda & \cdot \\ \cdot & \cdot & \lambda & \cdot \end{vmatrix}$						97 0000- 000-	COASTAL PLA			95.6 + 1	3.4			:`\::			:
95	-	‡	7	9	9	18	8		+	11	Sat.	000 000 000	TAN, COARSE S	AND	95	+	wo	H 5	9	14	+	<u> </u>	+
		ŧ				ļ:::ζ						000 000 92	.0	<u>17.0</u>		±							•
90	91.0	18.0	4	9	12		 21				Sat.		GRAY, SILTY S	AND	90	90.6 + 1	3.4	7	8				·
		ŧ				· · · Ĭ · · · I										±				1			
	86.0	23.0				::: / :							.0	DY CLAY 22.0		 	3.4						:
85	-	ł	5	7	10	↓ ↓ 17		<u> </u>			w				85		4	6	8	1 4		+	+
		±										82		27.0		Ī							·
80	81.0	28.0	3	4	6		· · · ·		••••		w	N	BROWN, SILTY		80	80.6 2	3.4	7	11	$ \cdot \cdot$			·
] .	Ŧ										N				ļ					8		·T
	76.0	+ + 33.0				:::,:							0 DARK GRAY, CLAYE	32.0		ļ † .				:::;			.
75		+	5	9	11	•	20	· · · ·	· · · · ·		Sat.		Diat Oldi, OLAIL		75	<u>75.6 + 3</u>	3.4 6	10	14	'	• <u>· · · ·</u>		· - -
		Ŧ				· · · /·						72	.0	37.0		‡							.
70	71.0	38.0	3	5	9	$\left \left \begin{array}{c} \cdot \cdot \cdot \eta \\ \cdot \cdot \eta \end{array} \right $			· · · · ·		1.47	\mathbf{N}^{\prime}	GRAY-BROWN, SILT		70	71.2 3	7.8	10	13		1		:
	1 .	ŧ	Ŭ	Ĭ	v	14- • • •	· · · ·			11	W					‡					•23 • • • •		.
	66.0	+ 43.0										<u> </u>	.0 GRAY TO DARK GRAY, C			66.2 4	2.8			$\left \left \begin{array}{c} \cdot \cdot \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} \right \right $:
65	- 00.0	+ +3.0	3	7	11	· · · · · ·	8	· · · ·			Sat.		WITH TRACE C		65		6	8	13	1 ⊢ ;	1 · · · · 21		·
		‡				::: ` ;						0000 0000 0000 62	0	47.0		‡				:::/:			:
60	61.0	48.0	5	10	11			· · · ·					GRAY, CLAYEY S	SAND 49.0	60	61.2 4	7.8	4	5				:
5	1 .	‡	5	10	11	•	21				W		GRAY, SILTY CLAY W	49.0 ITH SAND		‡				- 9	<u> </u>		. †
55		‡				:::;		· · · · ·								56.2 5	2.8			::\::			:
55		<u> </u>	6	8	13		· · · ·				w				55		2.8	6	9	 15.	· · · ·		÷
		‡				$\left \left \begin{array}{c} \cdot \cdot$	χ					\mathbf{N}	0			‡							:
50	51.0	58.0	_	40	40		N: III						GREEN, CLAYEY	SAND57.0		51.2 5	7.8	2 22	24				:
50 I	-	‡	5	13	18		31	· · · ·			Sat.				50			. 22	24		+ ` •	46	+
50		‡					/::::					47		<u>62.0</u>							: : <i>j</i> :		:
45	46.0	63.0	6	7	9	16-	· · · ·				w		BROWN-GRAY, SAN	DY CLAY	45	<u>46.2 </u> 6	<u>2.8</u> 8	16	18	1			·
		±																			1		:[
1	41.0	68.0														41.2 6	7.8		10		1		:
		<u>+</u>	5	7	10	1 7				Ц	w	39	.5 Boring Terminated at Eleva	69.5	40	\pm	6	10	13		\$ 23		+
		ŧ										E	Sandy Clay	auon 39.3 n 11		Ī							·
i		£										Ē			35	<u>36.2 T 7</u>	2.8	12	18		30		•
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1		£										E				Ŧ							
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SHEET 6

SAMPSC	N			GEOLOGIST MAYR, E.	
EEK ON SP	R 1233 (AUTR	YVI	LLE ROAD)	GROUND WTR (ft)
OFFSET 1	18 ft RT			ALIGNMENT -L-	0 HR. N/A
NORTHING	460,9	29		EASTING 2,138,228	24 HR. FIAD
) М		IAMMER TYPE Automatic
COMP. DA				SURFACE WATER DEPTI	
	SAMP.		L		
75 100	NO.	моі	O G	SOIL AND ROCK	DESCRIPTION
-					
				109.0 GROUND	
		М		ROADWAY EN TAN-BROWN,	SILTY SAND
					3.0
<u> </u>		М		-	
				- <u>102.0</u>	<u>7.0</u>
		w	\mathbf{Y}	ALLU BROWN, SI	
		vv		-	
			V	-	
<u> </u>		Sat.	000		13.9 L PLAIN
				LIGHT BROWN,	COARSE SAND
			õŏŏ	 GRAY TO DARK GRAY	
+		Sat.		TRACE CLAY	
				- - 	22.0
			Ś	GRAY-BROWN	SANDY CLAY
<u> </u>		W	Ì	_	
					<u>27</u> .0
			V	DARK BROWN	I, SILTY CLAY 28.9
<u> </u>		Sat.	\sim	DARK GRAY, C	CLAYEY SAND
				-	
		Sat.	~~~~	-	
$\left\lfloor \cdot \cdot \cdot \right ceil$		ડત્વા.	\sim	-	
			\sim	 	SIL TY SAND 37.0
<u> </u>		Sat.			
				-	
				-	
+		Sat.		_	
				- 	47.0
		W	$\mathbf{\nabla}$	BROWN, GRAY, AND	GREEN, SILTY CLAY
<u> </u>		vv	3	WITH :	3MINU
			\mathbf{N}	-	
		w		-	
<u> </u>			S	-	
					TX SAND 57.0
<u> </u>		Sat.		GREEN, SII	LIT SAND
				-	
					NDY CLAY
<u> </u>		W			
				-	
				-	
+		W		_	
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+	-	vv	Ň	- 34.7 - Boring Terminated at	
				- Sandy	
				-	

GEOTECHNICAL BORING REPORT BORE LOG

									URE L															
	38584					P B-4814		1	Y SAMPS				OLOGIST MAYR, E.	1		38584					IP B-4814		COUN	
				DGE N				HARIE C	REEK ON S				,	GROUND WTR (ft)					DGE		04 OVER L		HARIE	
BORI	NG NO). EB2	-A		S	TATION 2	21+64		OFFSET	17 ft LT		AL	GNMENT -L-	0 HR. N/A	BOR	ING NO.	EB2	-В		S	TATION 2	1+70		0
COLL	AR EL	. EV. 10	09.3 ft		T	OTAL DEP	TH 69.8 f	ť	NORTHIN	G 460,9	951	EA	STING 2,138,323	24 HR. -0.4	COLI	LAR ELI	EV. 10	09.1 ft		т	OTAL DEP	TH 64.7 f	t	N
DRILL	RIG/HA	MMER E	FF./DA	TE TR	10055	CME-55 68%	6 02/20/201	5		DRILL	METHOD	Mud Rota	ary HAMN	IER TYPE Automatic	DRILL	RIG/HA	MMER E	FF./DAT	TE TF	RI0055	CME-55 68%	6 02/20/201	5	
DRILL	LER V	VHICH/	ARD, ۱	N.	S	TART DAT	E 07/29/1	5	COMP. DA	ATE 07/	/29/15	SU	RFACE WATER DEPTH N	/A	DRIL	LER W	/HICH/	ARD, W	/.	S	TART DATI	E 07/29/1	15	С
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	' 	OW COL 0.5ft		0		PER FOOT 50	75 100	SAMP. NO.		L O G ELEV	SOIL AND ROCK DES . (ft)	CRIPTION DEPTH (ft)	ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	' 	W COU 0.5ft	1	0	BLOWS 25	PER FOC 50	ОТ 75
110	109.3	<u> </u> <u>-</u> 0.0	5	4	3	 1: · ·	····	1 • • • •	-		M L	- 109.3	GROUND SURF. ROADWAY EMBAN		110	109.1	0.0	12	11	8	 			<u> </u>
105	106.0	- <u>3.3</u>	3	4	5	 			· · · · · · ·	-			ORANGE-BROWN, SI		105	105.8	3.3	4	3	3		9	· · · · ·	· · ·
100	100.8	+ + - 8.5	WOH	WOH	WOH				· · · · · ·		w		ALLUVIAL DARK BROWN, SILTY CLA ORGANICS	<u>7.0</u> Y WITH TRACE	100	100.6	- - - <u>8.5</u>	WOH	WOH	WOH				· · ·
95	96.0	- - 13.3 -	2	4	5	· · · · · · · · · · · · · · · · · · ·			· · · · · ·	_	Sat.	9 <u>7.3</u>	COASTAL PLA BROWN, SILTY S	<u>12.0</u> NN SAND	95	- 95.8 -	- - 13.3	WOH	1	3		· · · · · · · · · · · · · · · · · · ·	· · · · ·	
90	91.0	- - 18.3 -	8	13	16		29				Sat.	92.3 92.3	GRAY, CLAYEY S	SAND <u>17.0</u>	90	90.9	18.2	7	11	15		26		· · ·
85	86.0	23.3	3	6	8	· · · · · · · · · · · · · · · · · · ·		· · · · ·			%.%.«///// ♥	87.3_	GRAY-BROWN, SAN	DY CLAY 22.0	85	85.9	23.2	2	5	6		/ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·
80	81.0	+ - 28.3	3	4	6	· · / · · · · / · · · · / · · · · / · ·			· · · · · · · · · · · · · · · · · · ·		w	82.3		CLAY 27.0	80	80.9	28.2	6	13	14		27	· · · · · · · · · · · · · · · · · · ·	· · ·
75	76.0	+ - 33.3	4	9	11		20		· · · · · · · · · · · · · · · · · · ·		Sat.	77.3	GRAY-BROWN, CLAY		75	75.9	33.2	7	11	17		• • • • • • • • • • • • • • •		
70	71.0	- - - 38.3	5	9	10		· · · · · · · · · · · · · · · · · · ·				Sat.	72.3	GRAY, SILTY SAND WITH	TRACE CLAY 37.0	70	70.9	38.2	5	9	13		22	· · · · · · · · · · · · · · · · · · ·	
65	66.0	43.3	4	7	10		 		· · · · · · · · · · · · · · · · · · ·		Sat. 0	<u>67.3</u> 00- 00- 00-	GRAY, COARSE	SAND 42.0	65	65.9	43.2	6	10	13				- - - -
60	61.0	+ + + + + 48.3	8	12	11	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		w	00- 00- 62.3	GRAY-GREEN, SANI	DY CLAY 47.0	60	60.9	48.2	9	9	13			· · · · · · · · · · · · · · · · · · ·	
55	56.0	53.3	5	9	17				· · · · · · · · · · · · · · · · · · ·		w				55	55.9	53.2	4	15	18			· · · · · · · · · · · · · · · · · · ·	
50	51.0	- - - 58.3	9	12	13				· · · · · · · · · · · · · · · · · · ·		w				50	50.9	58.2	6	12	16		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • •
45	46.0	63.3	4	8	11		/ · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		w				45	45.9	63.2	5	7	10				
40	41.0	68.3	5	9	11		20		· · · · · · · · · · · · · · · · · · ·		w	39.5		80.8		-						4		
						⊢						-	Boring Terminated at Elev. Sandy Clay *24 HOUR ARTESIAN WAT 109.7 FEET	ation 39.5 ft in ER ELEVATION		- - - - -								
40	41.0	- 68.3 - 68.3 	5	9	11		20		.		w	39.5	Sandy Clay *24 HOUR ARTESIAN WAT	ER ELEVATION										

SHEET 7

SAMPSO	N			GEOLOGIST MAYR, E.	
EEK ON SR	R 1233 (YVI	LE ROAD)	GROUND WTR (ft)
OFFSET 1	7 ft RT			ALIGNMENT -L-	0 HR. -0.6
		16		EASTING 2,138,324	24 HR. FIAD
NORTHING	-			· · ·	
	DRILL N	IFIHO		ud Rotary	IAMMER TYPE Automatic
COMP. DAT	E 07/3	30/15		SURFACE WATER DEPTH	H N/A
75 100	SAMP. NO.	моі	L O G	SOIL AND ROCK	DESCRIPTION
				T109.1 GROUND S	
		М	L	Roadway En Tan, silt	Y SAND
				_ <u>106.1</u> ORANGE, CL	AYEY SAND
		М	∟_		
				<u>102.1</u>	7.0
				LIGHT GRAY, SILTY	CLAY WITH TRACE
		W	\overline{I}	ORGA	NICS
			\boldsymbol{N}		
				ORGA	
				<u>92.1</u> COASTAI	<u>17.0</u>
		w		GRAY, SIL	TY SAND
				- 07.4	22.0
				BROWN-GRAY	, SILTY CLAY 22.0
		w		_	
			\boldsymbol{Z}		28.7
		W	000 000 000	GRAY, COA	RSE SAND
			000	77.1 DARK GRAY, SILTY S	
		Sat.		DARK GRAT, SILTTS	
		Sat.			
				67.1	42.0
				DARK GRAY, COARSI	E SAND WITH CLAY
		Sat.	000	-	
			000	<u></u> <u>62.1</u>	
		w			IDY CLAY
· · · ·		w			54.2 TY SAND
				GRAT, SIL	57.0
				GRAY-GREEN,	SANDY CLAY
		W		-	
		w			
				- 44.4 Boring Terminated at	
				Sandy	Clay
				*0 HOUR ARTESIAN V 	
				_	
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SITE PHOTOGRAPH FLOW

VIEW ALONG NORTH SIDE OF BRIDGE LOOKING SOUTHWEST

	PROJECT REFERENCE NO.	SHEET NO.
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	A CARLON AND	