CONTENTS

DESCRIPTION

TITLE SHEET

SITE PHOTOGRAPH

LEGEND SITE PLAN

PROFILE CROSS SECTIONS BORE LOGS

<u>SHEET NO.</u>
1
2
3
4
5,6
7-11
12

524D

(

REFERENCE

STATE OF NORTH CAROLINA

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

STRUCTURE SUBSURFACE INVESTIGATION

COUNTY _GUILFORD

PROJECT DESCRIPTION GREENSBORO - WESTERN LOOP FROM NORTH OF US 220 (BATTLEGROUND AVENUE) TO SR 2302 (LAWNDALE DRIVE) SITE DESCRIPTION BRIDGE ON -Y6- OVER -L-(GREENSBORO WESTERN LOOP)

STATE	STATE PROJECT REPERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U–2524D	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 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.

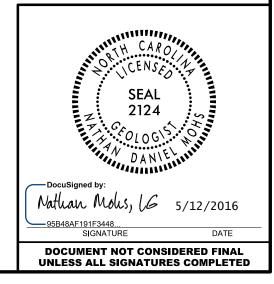
CENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSUFFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSUFFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DECREE OF RELIBULITY INHERENT IN THE SUBSUFFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THES SUBJFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THES WATER LEVELS OR SOL MOISTURE CONDITIONS MAY VARY CONSDERABLY WITH THE ACCOMPING OL CUMUTIC CONDITIONS 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 N. MOHS, LG TRIGON E. ESTEP T. PRESTON INVESTIGATED BY <u>N. MOHS, LG</u> DRAWN BY <u>N. MOHS</u>, LG CHECKED BY ______. D. BROWN, PE SUBMITTED BY <u>N. MOHS, LG</u>



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

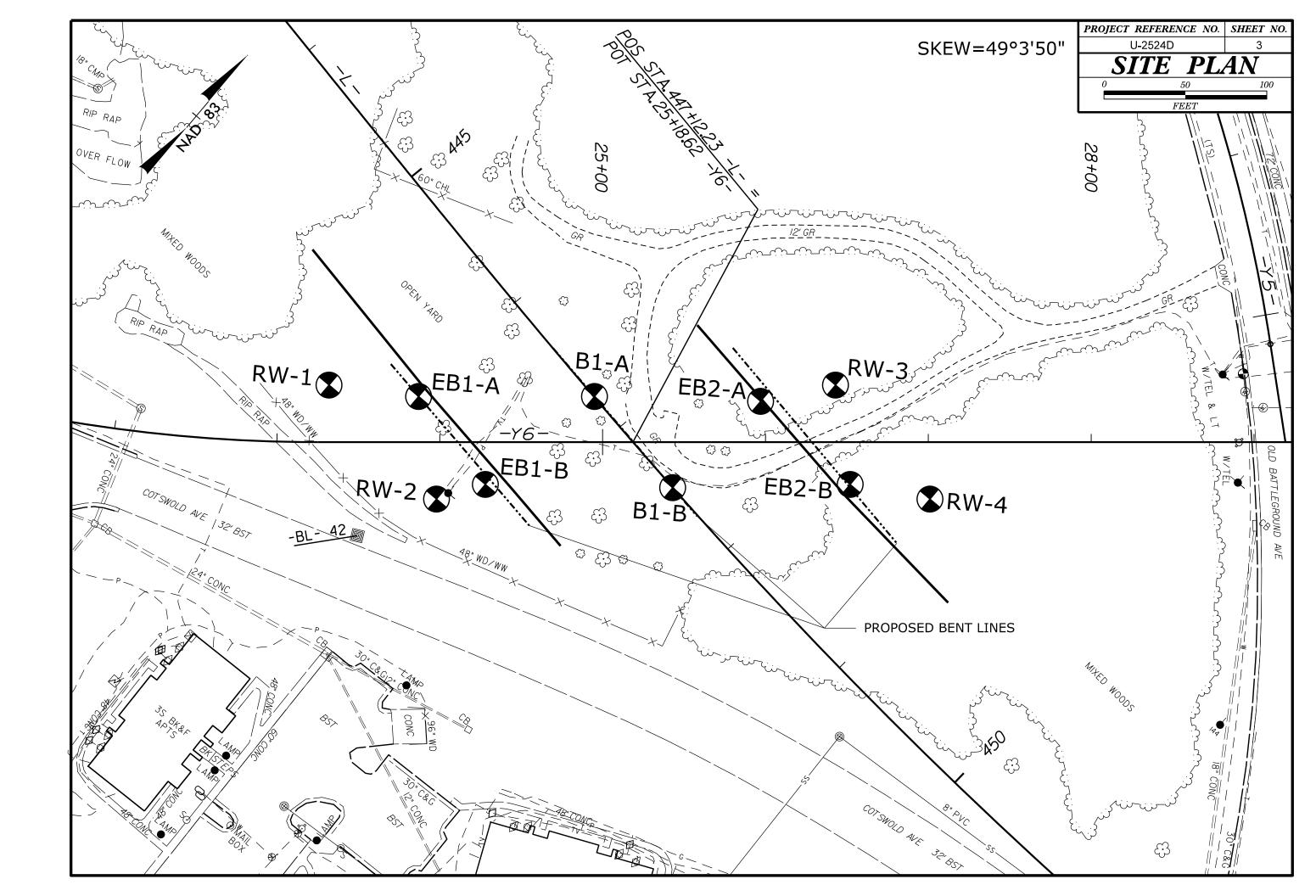
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

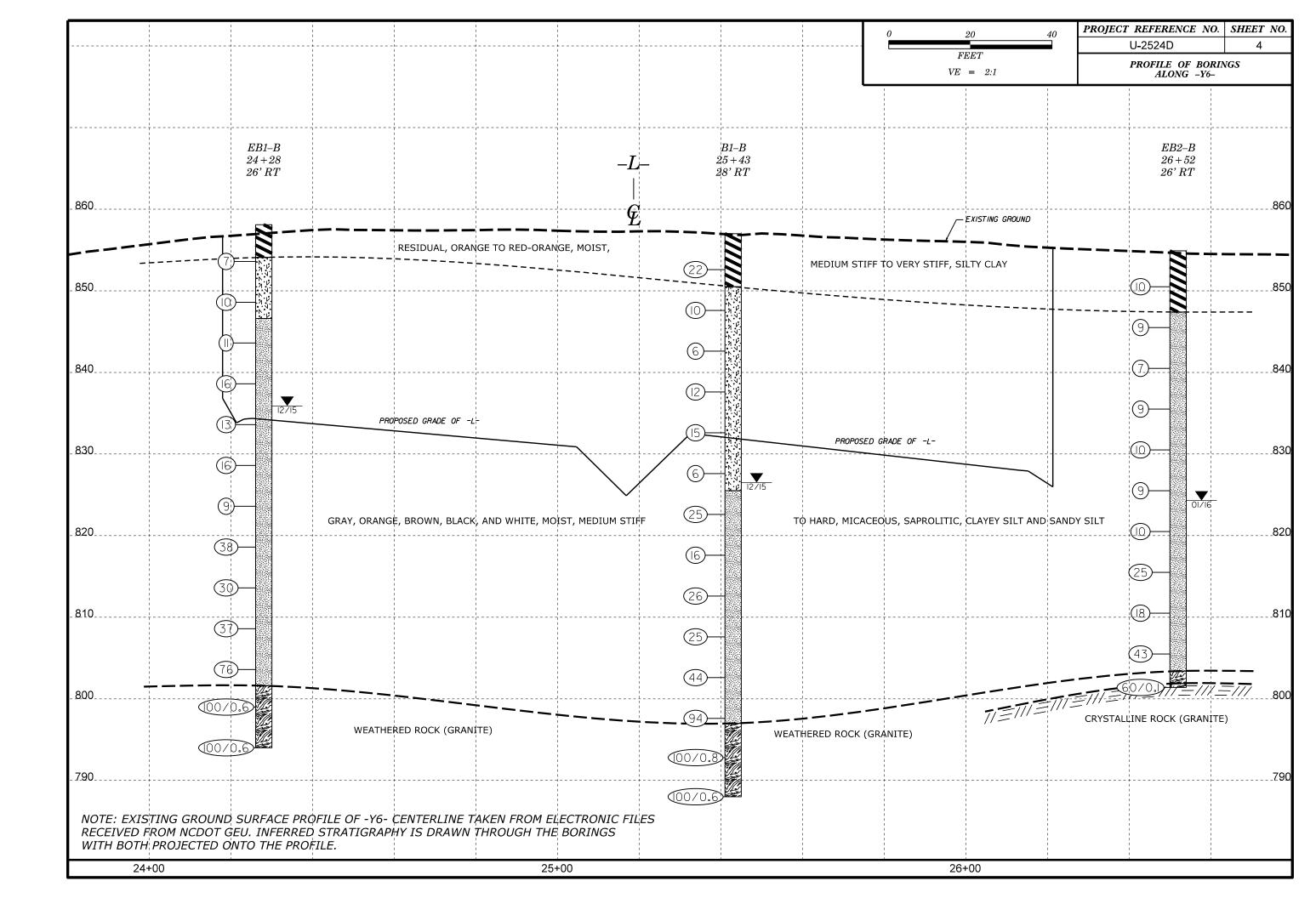
	SOIL DESCRIPTION	GRADATION	ROCK DESCRIPTION	TERMS AND DEFINITIONS
	SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT	AN WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.	HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. AN INFERRED	
	ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICA		SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60	AQUIFER - A WATER BEARING FORMATION OR STRATA.
	CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS		REPRESENTED BY A ZONE OF WEATHERED ROCK.	
			SI//ASI//A	
	SOIL LEGEND AND AASHTO CLASSIFICATION			
			CRISTING WAY A WOULD VIELD OF DEFUCAL TE TECTED DOOR TYPE INCLUDES CONNITE	
		ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.		CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
			POCK (NCP)	
	SYMBOL SOCOCOCOC	MODERATELY COMPRESSIBLE LL = 31 - 50	COASTAL PLAIN COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD	
			CP) SHELL BEDS, ETC.	BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
	*40 30 MX 50 MX 51 MN SOILS CLAY SOILS SOILS			DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.
	MM 36 MM			
	PASSING #40 SOTI S WITH		VERY SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN,	
	LL – – – 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN PI 6 MX NP 10 MX 10 MX 11 MN 11 MN 10 MX 10 MX 11 MN 11 MN MOREDATE	GHLY HIGHLY ORGANIC → 10%. → 20%. HIGHLY 35% AND ABOVE		
	GROUP INDEX Ø Ø Ø 4 MX 8 MX 12 MX 16 MX NO MX AMOUNTS OF			
	USUAL TYPES STURE FRAUS. FINE STITY OR CLAYEY STITY CLAYEY MATTER			
		▼ STATIC WATER LEVEL AFTER <u>24</u> HOURS		FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM
		ITABLE PW PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA		
CONSIDERT OF DERIVERS INFORMATION THEORY OF DERIVFUES INFORMATION THEORY				
		MISCELLANEOUS SYMBOLS		FIELD.
Market is in the second is	CONSISTENCY PENETRATION RESISTENCE COMPRESSIVE STR (N-VALUE) (TONS/FT ²)		SEVERE ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT	
Image: internet				LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
NH NH <th< td=""><td>MATERIAL MEDIUM DENSE 10 TO 30 N/A</td><td>8</td><td>IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF</td><td></td></th<>	MATERIAL MEDIUM DENSE 10 TO 30 N/A	8	IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF	
Multiple in the set of the set o	(NON-COHESTVE) DENSE 30 10 50			
Bit Size Marce Market Size Market Market Size Size Size Size Size Size Size Size		- INFERRED SOIL BOUNDARY CORE BORING SOUNDING ROD		
UNCLUE UNIT OF THE TOT OF				
Head 3.8 3.4 Control Build (AUD)				ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE
Text Up & UP LOWER DR LOW Size TEXT UP LOW SIZE	HARD > 30 > 4	INSTREET ION		1
Description Cost	TEXTURE OR GRAIN SIZE			
Object Constraint Constraint<		UNDERCUT I UNSUITABLE WASTE ACCEPTABLE, BUT NOT TO BE		
Instruct Stable Stabl	POUL DEP COPPLE CRAVEL COARSE FINE STUT	SHALLOW UNCLASSIFIED EXCAVATION - EMBANYMENT OF BACKELL		THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
Single is Cold	(BLDR.) (COR.) (CR.) SANU SANU (SL.)			
SOLL MOISTURE - CORRELATION OF TERMS Out- roce are frantation test Out- roce are frantation tes				
Solution Solution Color Color <td></td> <td> CL CLAY MOD MODERATELY γ- UNIT WEIGHT</td> <td></td> <td>WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL</td>		CL CLAY MOD MODERATELY γ - UNIT WEIGHT		WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL
WATTEREBOL LIMITS DBSC/IPTION UBJUEL LDB/LIMITS DBSC/IPTION UBJUEL TUBIO LIMITS OPTION DBS TO STREAM, INCES IN SIZE STAND DBSC/IPTION TOTAL LEGEN OF STANDARS AND COMPLEXATION STANDARS AND		CSE - COARSE ORG - ORGANIC		
Ling - Sampare - Sampare<		TION DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST <u>SAMPLE ABBREVIATIONS</u>	FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN	TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
LIAU LIAU LIAU LIAU LIAU LIAU LIAU LIAU		e - VOID RATIO SD SAND, SANDY SS - SPLIT SPOON		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
Have for the formation of the formatio the formation of the formation of the formation of the formation			SOFT OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY	
Image: Public Limit PLASTIC LIMIt PLASTIC LIMIt PLASTIC LIMIt PLASTIC LIMIt Image: Public Limit Image: Pu	BANGE - WET - (W) SEMISOLIDE REQUIRES DRIING TO			
OM OPTIMUM MOISTURE - MOIST - (M) SOLDA AT OR NEAR OPTIMUM MOISTURE DRLU WITS: ADVANCING TOOLS: HAMMER TYPE: ID 3 FEET THICKLY BEDDED 0.6 5 - 6 FEET THICKLY BEDDED 0.8 3 - 0.8 3 FEET SHRIMAGE LIMIT - DRY - (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE C CME-55C C CAY BITS AUTOMATIC MAMMER TYPE: AUTOMATIC MAMMER TYPE: MAMEMER	(PI) ATTAIN UPTIMUM MUISTURE			BENCH MARK: BL-42; N: 870184.5 E: 1749152.8
SL SHRINKAGE LIMIT MORE ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE Indicating of Construction State (CAP BITS) MORE ATTAIN OPTIMUM MOISTURE MORE ADDITIONAL WATER TO ATTAIN OPTIMUM ADDISTICE MORE ADDITIONAL WATER TO ADDITIONAL WATER TO ATTAIN OPTIMUM ADDISTICE MORE ADDITIONAL WATER TO ADDITIONAL WATER	ON OPTIMUM MOISTURE - MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOIS			ELEVATION: 858.04 FEET
- DRY - (D) ATTAIN OPTIMUM MOISTURE - DRY - (D) ATTAIN OPTIMUM MOISTURE - DRY - (D) ATTAIN OPTIMUM MOISTURE - OCCUP - OCCUP - O				NOTES:
PLASTICITY NOR STRENGTH CM-55 8 HOLLOW AUGERS -N INDURATION INDURATION NON PLASTIC 6-5 VERY LOW - - FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. NON PLASTIC 6-15 SLIGHT - FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. SLIGHTY PLASTIC 6-15 SLIGHT - FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. MODERATELY PLASTIC 6-25 MEDIUM - - FRIABLE CBNE of MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. MODERATELY PLASTIC 16-25 MEDIUM - - FRIABLE GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE. HIGHLY PLASTIC 26 OR MORE HIGH - PORTABLE HOIST X TRICONE -'TUNG, -CARB. MODERATELY INDURATED GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BRONN, BLUE-GRAYN, MOREN STERAPER ADD, STERAPE			VERY CLOSE LESS THAN 0.16 FEET THICKLY LAMINATED 0.008 - 0.03 FEET	
NEXPONENT Image: CME-150 merced m				
Image: Non PLastic 0-5 VERV 10W Image: Non PLastic 0-5 Non Plastic				1
SLIGHTLY PLASTIC 6-15 SLIGHT VANE SHEAR TEST CASING W/ AdVANCER HAND TOOLS: MODERATELY PLASTIC 16-25 MEDIUM PORTABLE HOIST CASING W/ AdVANCER POST HOLE DIGGER HIGHLY PLASTIC 26 OR MORE HIGH PORTABLE HOIST X TRICONE 27/8 STEEL TEETH POST HOLE DIGGER HAND TOOLS: PORTABLE HOIST X TRICONE 27/8 STEEL TEETH POST HOLE DIGGER MODERATELY INDURATED GRAINS CAN BE SEPARATE FROM SAMPLE. WITH STEEL PROBE; DESCRIPTIONS MAY INCLUDE COLOR OR COURD COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). TRICONE 'TUNG-CARB. SOUNDING ROD INDURATED OHAPHAGE BLOWS REQUIRED TO BREAK SAMPLE; MODERATELY INDURATED CORE BIT CORE BIT CORE BIT VANE SHEAR TEST SOUNDING ROD INDURATED SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE;	NON PLASTIC 0-5 VERY LOW		RUBBING WITH FINGER FREES NUMEROUS GRAINS;	
HIGHLY PLASTIC 26 OR MORE HIGH PORTABLE HOIST I TRICONE 27/8 STELE TEETH HOND AUGER MODERATELY INDURATED OHAINS CHAILED FRUID BESCHARTED OHAINS CHAILED FRUID BESCHART OHAINS CHAILED FR		VANE SHEAR TEST CASING W/ ADVANCER	GENILE BLUW BY HAMMER DISINIEGRATES SAMPLE.	
COLOR Image: Tricone Tricone </td <td>HIGHLY PLASTIC 26 OR MORE HIGH</td> <td></td> <td></td> <td></td>	HIGHLY PLASTIC 26 OR MORE HIGH			
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR CONDINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).	COLOR	TRICONE TUNGCARB. SOUNDING ROD		
	HUDIFIERS SUCH AS LIGHT, DAKK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.			DATE: 8-15-14

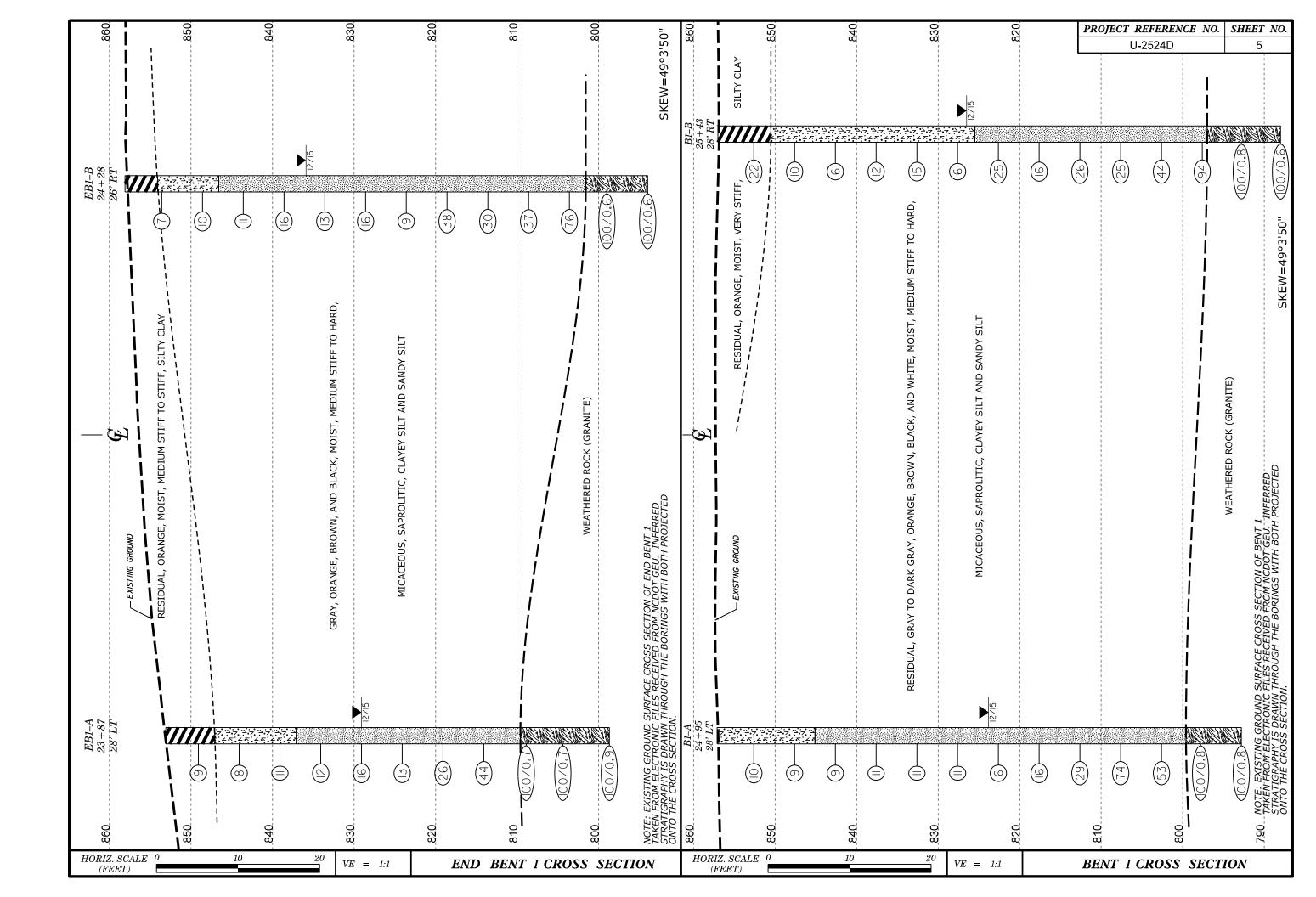
PROJECT REFERENCE NO.

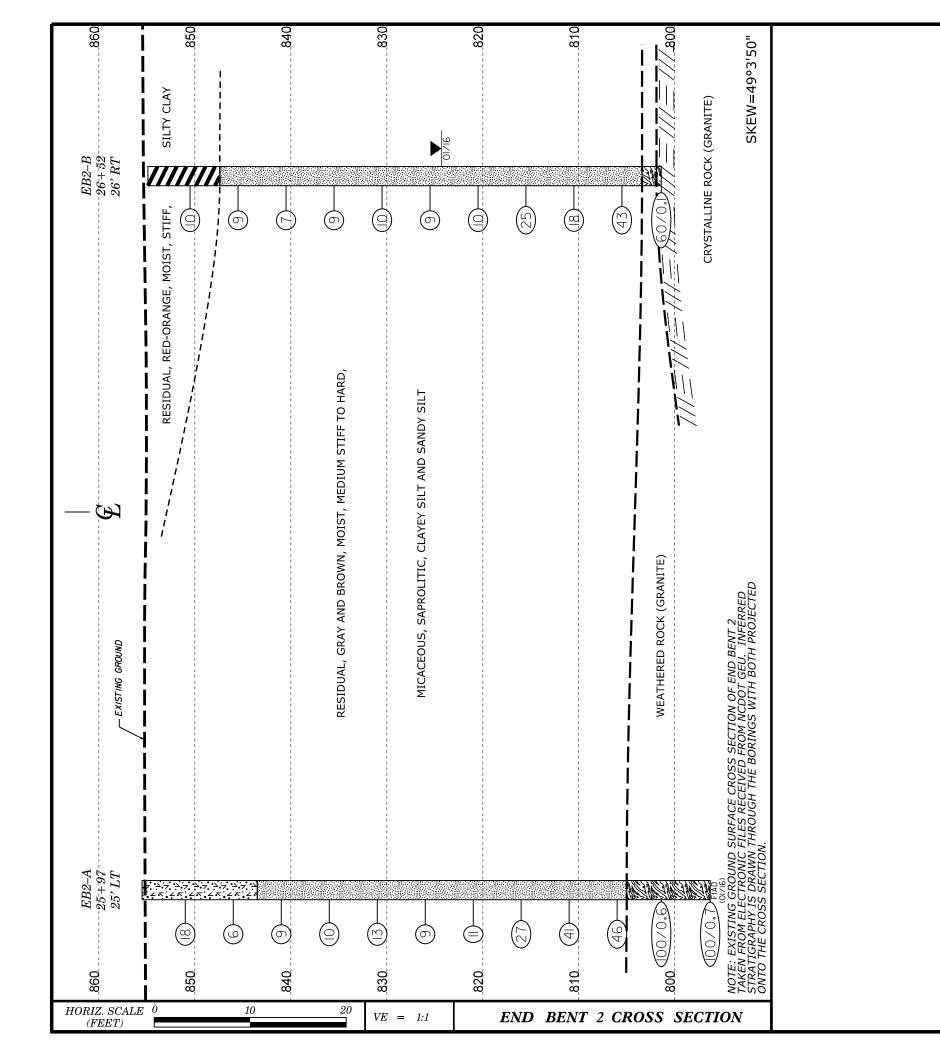
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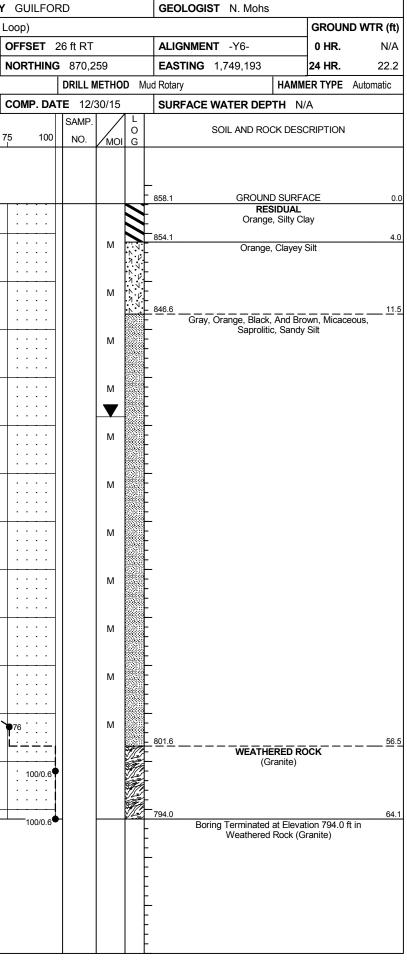




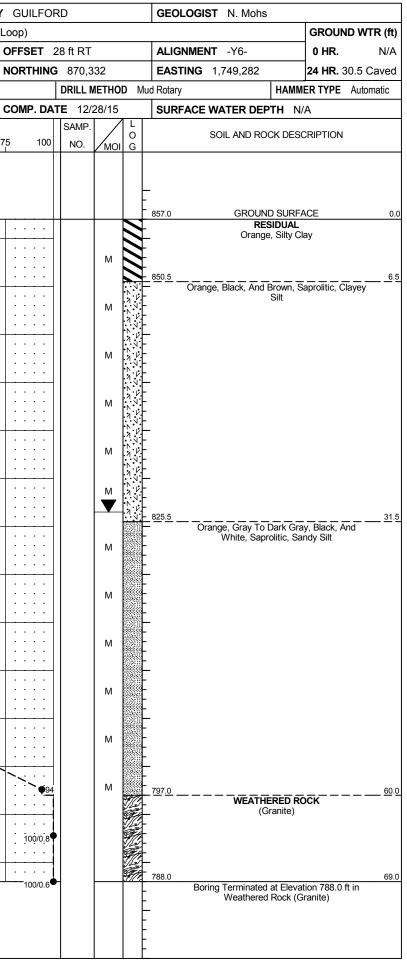


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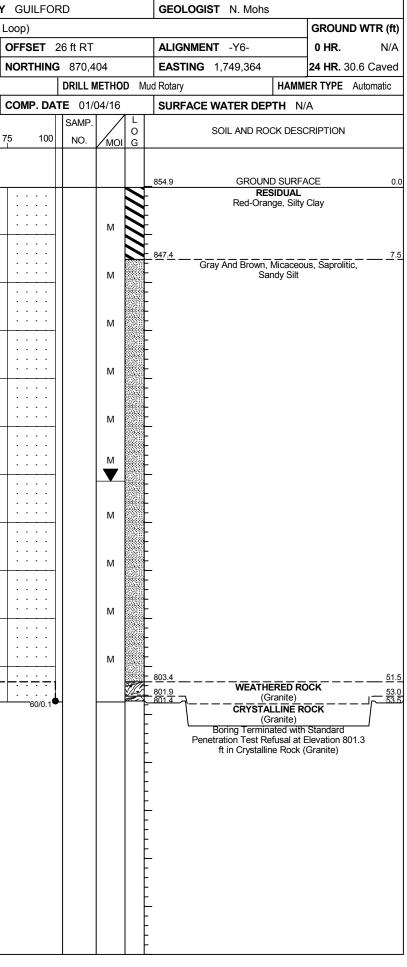
BORING N COLLAR I	820.1.2 SCRIPTION NO. EB1-, ELEV. 85		lge On		P U-252 Over -L- ((GUILFO	RD			GEOL	OGIST N. Mohs		WBS	3482	0.1.2			TII	P U-2524D)	COUN	ΤY
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COLLAR		A							• •						GROUND WTR (ft)					ge On		Over -L- (Gr		Wester	n Lo
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DRILL RIG/		3.1 ft		ТС	DTAL DEF	PTH 54.	4 ft		NORTHING	3 870,2	274		EAST	NG 1,749,126	24 HR. 24.0 Caved	COL	LAR EL	EV. 8	58.1 ft		ТС	OTAL DEPT	H 64.1 ft		N
	HAMMER EI	FF./DA	TE TR	RI0055 (CME-55 68	% 02/20/2	015			DRILL	NETHO	D M	lud Rotary	HAM	MER TYPE Automatic	DRIL	L RIG/HA	MMER E	FF./DAT	TE TR	10055 (CME-55 68%	02/20/2015		
DRILLER	E. ESTE	Р		ST	ART DAT	FE 12/29	9/15		COMP. DA	TE 12/	29/15		SURF	ACE WATER DEPTH	N/A	DRIL	LER E	E. ESTE	P		ST	ART DATE	12/30/1	5	c
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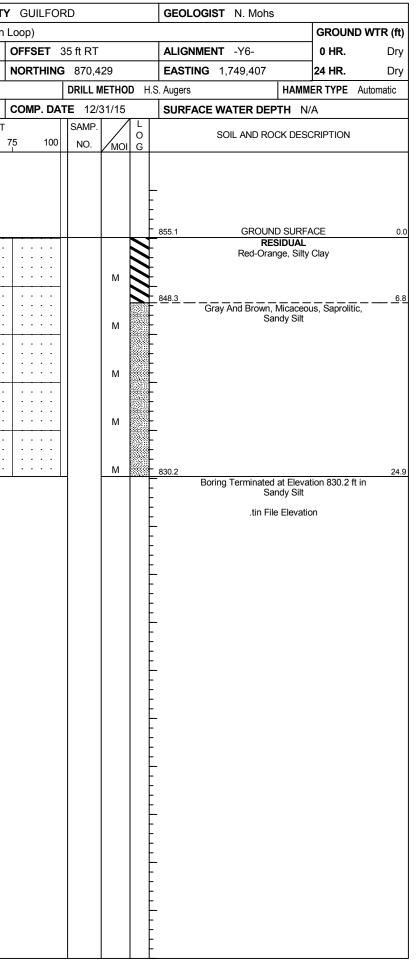
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BORING	NO.	RW-3	3		S	TATIC	DN 2	26+43	3			OFF	SET	35 ft L1	-		_	GNMENT -Y6-		0 HR.	Dry		ING NO.					ΤΑΤΙΟ			
COLLAR	RELEV	/. 85	4.3 ft		<u></u> Т	OTAL	DEP	тн	25.1	ft		NOR	THINC	3 870,	445		EA	TING 1,749,317	2	24 HR.	Dry	COL	LAR ELE	EV . 85	55.1 ft		Т	OTAL	DEPT	1 24.9 f	ť
RILL RIC	G/HAMN	MER EF	FF./DA	TE TR	10055	CME-5	55 68%	6 02/	/20/201	15				DRILL	METH	OD H	H.S. Aug	rs H/	AMME	R TYPE A	utomatic	DRILL	RIG/HAN	MMER E	FF./DA	TE TI	RI0055	CME-55	5 68%	02/20/2015	5
DRILLEF	R E.E	ESTER	Р		S	TART	DAT	E 1	2/31/	15		COM	IP. DA	TE 12	/31/1	5	SU	FACE WATER DEPTH	N/A	۱.		DRIL	LER E	. ESTE	P		S	TART	DATE	12/31/1	5
		EPTH		W COL				BL	LOWS	PER	FOOT			SAMF	P. ▼ ∕			SOIL AND ROCK I	DESCI	RIPTION		ELEV (ft)	DRIVE ELEV	DEPTH		ow co	_				PER FOOT
	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0		25		50 		75	100	NO.	Им		ELEV				DEPTH (ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	; ;	50
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SITE PHOTOGRAPH



VIEW LOOKING NORTH TOWARD BENT 1

PROJECT REFERENCE NO.	SHEET NO.
U-2524D	12

