NORTH CAROLINA DIVISION OF HIGHWAYS GEOTECHNICAL UNIT

SOIL AND ROCK CLASSIFICATION, LEGEND, AND ABBREVIATIONS

GENERAL CLASS.	BOIL LEGEN	ND AND I	AASHTU.	ULASSIF	ICATION		C0	ONSISTENC	CY OR	DENS	ENESS
CLH55.	GRANULAR (≤ 35% PAS			AY MATERIALS ASSING *200)	ORGANIC MATI	ERIALS	PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY		RESISTANCE	RANGE OF UNCONFINE COMPRESSIVE STRENGTH (q
GROUP CLASS.	A-1 A-3 A-1-a A-1-b A	A-2 -2-4 A-2-5 A-2-6	A-4 A-	-5 A-6 A-7 A-7-6	A-1,A-2 A-4,A-5 A-3 A-6,A-7			VERY LOOSE	(N - VA		(kN / m²)
SYMBOL	00000000						GENERALLY GRANULAR	LOOSE MEDIUM DENSE	4 TO 10 TO	10 30	N/A
% PASSING #10	50 MX				GRANULAR SILT- SOILS CLAY	MUCK. PEAT	MATERIAL	DENSE VERY DENSE	30 TO > 5		
#40 #200 PASSING •4 LL PI	4	0 MX 41 MN 40 MX	41 MN 40 MX 41	MN 36 MN 36 MN MN 40 MX 41 MN MX 11 MN 11 MN	SOILS WITH	HIGHLY	GENERALLY SILT-CLAY MATERIAL	VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF	< 2 2 TO 4 TO 8 TO 15 TO	4 8 15	\(25 \) \(25 \) \(10 \) \(50 \) \(100 \) \(1
GROUP INDE		0 4	MX 8 MX 12	MX 16 MX NO MX	MODERATE AMOUNTS OF ORGANIC	DRGANIC SDILS		HARD	> 3	0	> 400
OF MAJOR MATERIALS	S SAND	SILTY OR CLAY GRAVEL AND SA -7-5 < (LL-30):	AND SOILS	SOILS	MATTER		1		HOLE SOOI		AFTER DRILLING (I.A.) DRILLING (0 HRS
		TURE OR		SIZE			===	TIC WATER LEVEL			
BOULD	ER COBBLE	GRAVEL (COARSE SAND	FINE SAND	SILT C	LAY		THED WATER (PW).	SATURATED Z	ONE, OR	WATER BEARING STRATA
GRAIN (mr SIZE (IN	m) 305 75		0.25	0.05	0.005		MISCEL	LANEOUS SY	MBOLS	AND A	BBREVIATIONS
SO	IL MOISTU		RRĘLAT	ION OF 1	TERMS			AY EMBANKMENT WITH DESCRIPTION	H SPT VST	TEST BORI	ING SAMPLE DESIGNATIONS
	OISTURE SCALE BERG LIMITS)	FIELD MOIST	TURE GUIDE I	FOR FIELD MO	ISTURE DESCR	RIPTION	SOIL :	SYMBOL	⊕ Al	UGER BORI	
	1.10.115 1.14.17	-SATURATE (SAT.)		Y LIQUID; VER BELOW THE GF	Y WET, USUAL ROUND WATER	LY TABLE	_X ARTIFI	CIAL FILL OTHER THA BY EMBANKMENTS	Υ	ORE BORIN	ST-SHELBY TUE
PLASTIC F RANGE (PI) PL	LIQUID LIMIT PLASTIC LIMIT	-WET- (W)	SEMISO	OLID; REQUIRES UM MOISTURE			INFERF	RED SOIL BOUNDAR: E AND DIP	ES 🛆 IV	IEZOMETER ISTALLATIO OPE INDIC	ON RS-ROCK SAMPL :ATOR
OM - SL	OPTIMUM MOISTURE		M) SOLID	AT OR NEAR	OPTIMUM MOI	STURE	APPAR	ENT DIP	_	STALLATIO PT N-VALU	
		-DRY- (D)		RES ADDITIONA N OPTIMUM MO			● ROD \$	OUNDING	O M	ONITORING	WELL
	<u> </u>	ROCK D	DESCRIPT		· · · · · · · · · · · · · · · · · · ·		ABBREVIATIONS				
BE SAMPLED	DADEST MEANING, HARD I D BY CONVENTIONAL SOI ARY, TRANSITION BETWI THE PURPOSE OF TH	IL SAMPLING TOOL EEN SOIL AND RI	LS OR TECHNIQUE: OCK IS OFTEN R	S. THE BOUNDARY EPRESENTED BY	BETWEEN SOIL AND A ZONE OF "WEAT	D ROCK THERED	AR BLDR. CALC. CL. CLY.	AUGER REFUS BOULDER CALCAREOUS CLAY CLAYEY	AL MOT N NS ORG P.P.	BI NO S. Of	OTTLED LOWS / 30 CM O SAMPLE TAKEN RGANIC ICKET PENETROMETER
TERM HARD	SYMBOI CORED ROCK	LS INFERRED _	MATERIAL TH	DESCRIPT AT CANNOT BE PE		NWER	COB. CSE.	COBBLE COARSE	REF RES		EFER TO ESIDUAL
ROCK		ROCK LINE 2	, AUGERS, EXCEP	T IN THIN LEDG	ES, AND REQUIRE	S	DPT EST. F.	DYNAMIC PENETRATIO ESTIMATED		S(. S/	OFT ATURATED AND
(HR)		HARD	MATERIAL THA	T CAN BE PENET	N BE PENETRATED WITH GREAT WER AUGERS AND YIELDS SPT REF		1 .	FINE FILLED IMMED. AFTER DRILLIN FOSSILIFEROUS			
WEATHERED		WEATHERED ROCK (HWR)	I.		AND YIELDS SPT	1	FIAD FOSS.		RILLING SDY	'. S	ANDY EDIMENT(S)
			DIFFICULTY USI MATERIAL THA DIFFICULTY US		RATED WITH SOF	REFUSAL ME	FIAD FOSS. FRAC.	FOSSILIFEROUS FRACTURED	RILLING SDY	'. S/ (S). SE SI SI	ANDY
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- NOTE BY HAVING REQUESTED 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.