NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

M. ADMINISTRATION OF THE CONTROL AND A SECURITY CONTROL AND A SECU		SOIL DES	SCRIPTION				l G	RADATION		TERMS AND DEFINITIONS
Company Comp	SOIL IS CONSIDERED TO BE T			TERIALS VHICH	CAN BE PENET	RATED	WELL GRADED- INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.			
### CONTINUE AND ADDRESS OF ADDRE	WITH A CONTINUOUS FLIGHT P	POWER AUGER, AND WHICH YIELDS LI	ess than 100 blows accordin	g to standard	PENETRATION					
## Advantage Control C	TEST (ASTM D-1586). SOIL C	Classification is based on the A	ashto system and basic descr	IPTIONS GENERA	ALLY SHALL IN	ICLUDE:	GAP-GRADED INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.			
Security Company Com	CONSISTENCY: COLOR: TEXT	TURE, MOISTURE, AASHTO CLASSIF	ICATION AND OTHER PERTINENT	FACTORS+ SUC	H AS• MINER	ALOGICAL				
STATE FERRING AND ADDRESS TOTAL PRINTED STATE STATE STATE TOTAL PRINTED STATE STATE STATE TOTAL PRINTED STATE	1	STRUCTURE, PLASTICITY, ETC. E	XAMPLE: VERY STIFF. GRAY SILTY (CLAY, MOIST WITH I	NTERBEDDED FA	IE SAND				
Miles 1.5 Miles	LAYERS, HIGHLY PLASTIC, A-7-6.									
Second Column C										
COMPANIES						IALS	1			
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1.00 1.00	0000000000			Miller.			d		LIGOID LIMIT GREATER THAN 50	
Section December Section Sec				GRANULAI		MUCK.		Total Control of the State of t	T MATERIAL WHICH CANNOT RE	
Column C	◆ 4Ø 3Ø MX5Ø MX51 MN			SUILS		PEAT				
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March					WITH		1	THE PURPOSE OF TH	IS INVESTIGATION, THESE	DUMPS - UNCOVERED DEPOSITS OF WASTE MATERIAL SUCH AS WOOD, MASONRY DEBRIS OR GARBAGE.
### Company of the Co					LITTLE OR HIGHLY					
Secretary Secr			8 MX 12 MX 16 MX NO M				SUF!			1
### SECURITY 19 200 19 19 19 19 19 19 19		FINE SILTY OR CLAYEY	SILTY CLAYEY	ORGAN	IC	30123	BULK programmy BULK			
Part		SAND GRAVEL AND SAND	SOILS SOILS	MATTE	R		(SWR) HARD			PLANES.
Part	GEN. RATING	<u></u>	 	FAIR TO			WEMITIENE!			
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PRINTED THE COPINITION OF STATE COPINITION THE PRINT OF STATE COPINITION OF ST		OF A-7-5 ≤ L.L 30	: P.I. OF A-7-6 >	L.L 3	 8Ø	l			PT IN THIN LEDGES, AND REQUIRES	
Married Composition Comp										
PRINCIPAL VERY LODGE 15 10 10 10 10 10 10 10									II AUCEDO COULD NO LONGED	1
Control Cont	PRIMARI SOIL TIFE	CONSISTENCY				CNOIN				
CRESHELY COUNTY		VERY LOOSE	4				DEPTH CORED. A DESCRIPTION OF ROCK IS GIVEN INCLUDING:			
### TEXTURE OR GRAIN SIZE Sept. 10			4 TO 10	N/0			CORE RECOVERY (REC.)- TOTAL LENGTH OF ROCK RECOVERED IN THE CORE BARREL DIVIDED			GROUNDWATER (G.W.) - WATER THAT IS FREE TO MOVE THROUGH SOIL MASS UNDER THE INFLUENCE
MEN CONSTITUTION FOR THE NAME OF THE STORY O					IV FI		BY THE TOT	AL LENGTH OF THE	CORE RUN TIMES 100%.	
STILL HIGHT STIPE CALL STILL CARP STIL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
CROUND WATER 1977 1977 1977 1977 1977 1977 1970										
##ITER/LAY STIFF 10 10 20 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 10 40 20 20 10 40 20 10 40 20 20 10 40 20 10 40 20 20 10 40 20 10 40 20 20 10 40 20 20 10 40 20 20 10 40 20 20 10 40 20 20 10 40 20 20 10 40 20 20 10 40 20 20 20 20 20 20 20 20 20 20 20 20 20	GENERALLY		23 10 30				GR	OUND WATER		INDURATED - EARTH MATERIAL HARDENED BY HEAT, PRESSURE OR CEMENTATION.
STATE VARIES LIVEL AFTER 24 ALUES. TEXTURE OR GRAIN SIZE U.S. STOL SIZE 512 4 10 46 6 200 728 SPRING OR SEPTED. SPRING OR SPRING OR SEPTED. SPRING OR SPRIN	SILT-CLAY STIFF						WATER LEVEL IN BORE H	DLE IMMEDIATELY AF	FTER DRILLING.	INTERBEDDED - ALTERNATING LENSES OR LAYERS OF SOIL AND/OR ROCK MATERIALS.
U.S. STD. SEVE SIZE	MATERIAL				200 TO 400		▼ STATIC WATER LEVEL AFTER 24 HOURS.			JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
U.S. STD. SIEVE SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE 4. 10 4.8 6. 20 270 DORATION CHIEF SIZE DORATION							<u> </u>			LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN I CM.
DESCRIPTION	TEXTURE OR GRAIN SIZE						1			LAYER - SUBJECT MATERIAL GREATER THAN ICM IN THICKNESS.
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BOULDER COBRE CAN'EL CLAY SAND SAND SAND SAND SAND SAND SAND SAND	OPENING (MM)	4.76 2.0	0.42 0.25 0.07	75 0.053			MISCELLANEOUS	SYMBOLS AND	ABBREVIATIONS	
SAND SAND SAND SAND SAND SAND SAND SAND	BOULDER COL	BRIE GRAVEI				ΔΥ				
GRAIN MY 305 75 2.0 0.25 0.65 0.600 SOIL MOISTURE - CORRELATION OF TERMS SOIL MOISTURE SCALE FILLD MOISTURE CORRELATION OF TERMS SOIL MOISTURE SCALE FILLD MOISTURE CORRECT CORRECT FILLD MOISTURE CORRECT CORRECT CORRECT CORRECT FILLD MOISTURE CORRECT	l boolben con	JOEE STATE	SAND SAND	' '	"""			DPT TEST		
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SOL MOISTURE - CORRELATION OF TERMS SOL MOISTURE SCALE SOL FIELD MOISTURE DISTRE GUIDE FOR FIELD MOISTURE DESCRIPTION SOL MOISTURE SCALE SOL MOISTURE							SOIL STRIBUL			
SOIL MOISTURE SCALE (ATTERERO LIMITS) SOIL MOISTURE (AST.) SATURATED SATURATED (SAT.) SEMBLY LIQUID LIMIT (SAT.) SEMBLY LIQUID LIMIT L	SOIL MOISTURE - CORRELATION OF TERMS						ARTIFICIAL FILL OTHER THAN CORE PARAME SAMPLE			
INFERRED SOIL BOUNDARIES INFERRED SOIL BOUN	SOIL MOISTURE SCALE FIELD MOISTURE GUIDE FOR FIELD MOISTURE DESCRIPTION					CRIPTION	ST- SHELBY TUBE			1
SATURATED USUALLY 1001D UNTY WET, USUALLY 1001D VERY W	(ATTERBERG LIM	ITS) DESCRIP	PTION PTION				MONITORING WELL			
INSTALLATION SENISOLIDI REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WET - (W) SENISOLIDI REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WET - (W) SENISOLIDI REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - WET - (W) ATTAIN OPT - WET - (W) ATTAIN OPTIMUM MOISTURE - WET - (W) ATTAIN OPTIMU		- SATURA	ATED - USUALLY I	IQUID: VERY WET, USUALLY		JSUALLY	ALLINIA (PECIDIA) POLISIDARIES			i e e e e e e e e e e e e e e e e e e e
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- DRY - (D) ATTAIN OPTIMUM MOISTURE MOBILE B57 6' (52 mm) CONTINUOUS FLIGHT AUTOMATIC MANUAL	SL + SHITING	HOL LIMIT	DEOUTDEC			TO.	T			7
PLASTICITY PLASTICITY PLASTICITY INDEX DRY STRENGTH NONPLASTIC PLASTICITY G-5 VERY LOW PLASTICITY G-15 SLIGHT MED. PLASTICITY G-15 SLIGHT MED. PLASTICITY MAMMER FALLING O.76 METERAL EXTRICTION RESISTANCE) (SPT) - NUMBER OF 5% TO 30% OF SUBJECT MATERIAL. SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THICKNESS IS SLIGHT COMPARED TO SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THICKNESS IS SLIGHT COMPARED TO SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THE INCLINE. SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THE INCLINE. SILL - AN IGNEOUS		- DRY -							1	FAULT OR SLIP PLAIN.
PLASTICITY INDEX DRY STRENGTH NONPLASTIC NAMINE PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. STANDARD PENETRATION CESSTANCE (SPI) - NUMBER OF BLOWS (N) OF A 63.5 Kg HAND TOOLS THAN 15 - SUBJECT MATERIAL. STANDARD PENETRATION CESSTANCE (SPI) - NUMBER		DI AC	TICITY				. MOBILE B57 6' (152 mr	n) CONTINUOUS FLIGHT	N 101011112	l
NONPLASTIC 0-5 VERY LOW PLASTICITY 6-15 SLIGHT SLIGHT 6-15 SLIGHT MED. PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 26 OR MORE HIGH PLASTICITY 26 OR MORE HIGH PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 26 OR MORE H				DRY STRENGTH			BK-51 8" (203 m	m) HOLLOW AUGERS	CORE BORING TOOLS:	
LOW PLASTICITY 6-15 SLIGHT MED. PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 26 OR MORE HIGH PLASTICITY COLOR DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	NONIDI ACTIC							ACED FINGER RITS	-AX -BX N-NWD	
MED. PLASTICITY 16-25 MEDJUM HIGH HIGH PORTABLE HOIST CLAY BITS DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. MEDJUM CME-550 TUNG CARBIDE INSERTS HAND TOOLS: POST HOLE DIGGER HAND AUGER HAND AUGER SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURAL PLANE. SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM. TOPSOIL (T. S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.			SLIGHT							HAMMER FALLING 0.76 METERS REQUIRED TO PRODUCE A PENETRATION OF 30 cm INTO SOIL WITH A
PORTABLE HOIST COLOR DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN. RED. YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.	1		≥5				CME-550 X TUNG.	CARBIDE INSERTS		
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. OTHER	HIGH PLASTICITY						PORTABLE HOIST CLAY B	TS ST	POST HOLE DIGGER	STRIKE - THE DIRECTION OR BEARING OF A HORIZONTAL LINE IN THE PLANE OF AN
MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.			LUK				1 <u> </u>		HAND AUGER	
TIOS TELO SOCI AS ETOIT OF THE OF THE OSE TO BESTELLE AT LANGUE.	ł .						DTHER OUTRACT OTHER		SOUNDING ROD	
	MODIFIERS SUCH AS L	IGHT, DARK, MOTTLED, S	STREAKED, ETC. ARE U	SED TO DES	SCRIBE AP	PEARANCE.	OTHER		VANE SHEAR TEST	IRACE - PRESENCE OF LESS THAN 5% OF SUBJECT MATERIAL.

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ABBREVIATIONS PL - PLASTIC LIMIT CL. - CLAY PI - PLASTICITY INDEX COB. - COBBLE n - POROSITY CSE. - COARSE SD. - SAND EST. - ESTIMATED SAT. - SATURATED F. - FINE SL. - SILT, SILTY FOSS. - FOSSILIFEROUS SLI. - SLIGHTLY FRAC. - FRACTURED G_{S} - SPECIFIC GRAVITY GR. - GRAVEL qu - UNCONFINED COMPRESSIVE STRENGTH LL - LIQUID LIMIT y - UNIT WEIGHT (WET UNIT WEIGHT) MED. - MEDIUM 7d - DRY UNIT WEIGHT W - MOISTURE CONTENT 7SAT - SATURATED UNIT WEIGHT MOT. - MOTTLED e - VOID RATIO OM - OPTIMUM MOISTURE ORG. - ORGANIC V. - VERY

CAUTION NOTICE:

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WAS MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES, SOME DATA OBTAINED MAY BE OMITTED FROM THIS RELEASE.

ADDITIONAL INFORMATION MAY BE AVAILABLE, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

FIELD BORING LOGS ROCK CORES SOIL & ROCK TEST DATA SUBSURFACE REPORT

THIS INFORMATION MAY BE VIEWED BY APPOINTMENT BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL UNIT @ (919) 250-4088, NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA IS 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 UIN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED 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 WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPINIONS OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS 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 THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IS IT CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

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.

NOTES:

REVISED NOVEMBER II, 1998