SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

	COACATION	TERMS AND DEFINITIONS	ABBHE ATAITONS
SOIL DESCRIPTION	GRADATION WELL GRADED- INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARS		BLOR BOULDER P.L PLASTIC LIMIT
	UNIFORM- INDICATES A GOOD REPRESENTATION OF PARTICLE STREET HOST INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO	THE COVIDER THE COVER OF THE CO	CL CLAY P.I PLASTICITY INDEX
VITH A CONTINUOUS FLIGHT POVER AUGER, AND WHICH YIELDS LESS THAN 1880 BLOYS ACCORDING TO STANDARD PENETRATION		APPARENT DIP - THE DIP OF ROCK STRATA NOT PERPENDICULAR TO STRIKE.	n - PORCETTY
TEST (ASTH D-1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM AND BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE:	GAP-TRADED- INDICATES A MIXTURE OF UNIFORM PARTICLES OF IND OR MORE SIZES.	AQUIFER - A WATER BEARING FORMATION OR STRATA	COO. COULT
CONSISTENCY. COLOR. TEXTURE, MOISTURE, AASHTO CLASSIFICATION AND OTHER PERTINENT FACTORS. SUCH AS, MINERALOGICAL	ANGULARITY OF GRAINS	AUGER REFUSAL (A.R.) - POINT AT WHICH POWER AUGERS WILL NOT PENETRATE.	CSE COARSE SD SAND
CONSISTENCE. LOCAR, TEXTORE, MOISTONE, MASKIN CONSISTENCE TO STATE OF CATA OF MASKET WITH INTERPEDIATE THE SAND	THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS ARE DESIGNATED BY THE TERMS: ANGULAR.	BEDDED - SOIL OR ROCK _YING IN A POSITION ESSENTIALLY PARALLEL.	EST ESTIMATED SAT SATURATED
COMPOSITION, ANGALARITY STRUCTURE, PLASTICITY, ETC. EXAMPLE: YERY STIFF, GRAY SUTY CLAY, MOST WITH INTERSECUED FINE SAND	SUBANGULAR, SUBROUNDED, OR ROUNDED.	BEDROCK - ROCK OF RELATIVELY GREAT THICKNESS AND EXTENT IN ITS ORIGINAL LOCATION.	F FINE SL. SILT, SILTY
WEES, HIGHU PUSTIC A7-6.	. MINERALOGICAL COMPOSITION .	CALCAREOUS (CALC.) - SDILS WHICH CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.	FOSS FOSSILIFEROUS SLI. V.SLIGHTLY
SOIL LEGEND AND AASHTO CLASSIFICATION	MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN	COHESIVE SOIL - A SOIL THAT WHEN UNCONFINED HAS CONSIDERABLE DRY STRENGTH AND	G SPECIFIC GRAVITY
GENERAL GRANULAR MATERIALS SILT-CLAY MATERIALS ORGANIC MATERIALS	DESCRIPTIONS WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE.	SIGNIFICANT COHESION WHEN SUBMERGED.	TO THE PROPERTY OF THE PROPERTY STORINGTH
CLASS. (≤ 35% PASSING •200) (> 35% PASSING •200)	COMPRESSIBILITY	COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT	
GROUP A-1 A-3 A-2 A-4 A-5 A-6 A-7 A-1, A-2 A-4, A-5	LOUIS LIVE I FOR THAN 20	BOTTOM OF SLOPE	L.L LIQUID LIMIT Y - UNIT WEIGHT (WET UNIT WEIGHT)
CLASS. A-1-AA-1-B A-2-4A-2-5A-2-6A-2-7 A-7-6 A-3 A-6, A-7	MODERATELY COMPRESSIBLE LIQUID LIMIT 31-50	CORE RECOVERY (% REC.) - TOTAL LENGTH OF ALL ROCK DIVIDED BY TOTAL LENGTH OF CORE	MED MEDIUM
SYMBOL BOOODSOOD	HIGHLY COMPRESSIBLE LIQUID LIMIT GREATER THAN 50	DIN AND EVEDERED AS A PERCENTAGE.	W - MOISTURE CONTENT SATURATED UNIT WEIGHT
50000000000000000000000000000000000000	ROCK DESCRIPTION	COQUINA - A ROCK TYPE COXPOSED ESSENTIALLY OF MARINE SHELLS CEMENTED BY CALCIUM CARBONATE.	MOT, MOTTLED e - VOID RATIO
Z PASSING GRANULAR SILT- MUCK.	IN THE BROADEST MEANING, HARD ROCK IS CONSIDERED THAT INDURATED EARTH MATERIAL WHICH CANNO	DIKE - IGNEOUS ROCK INTRUSION WHICH IS NARROW COMPARED WITH ITS OTHER DIMENSIONS.	OM -"OPTIMUM MOISTURE
• 10 50 MX • 40 30 MX50 MX51 MN SOILS CLAY PEAT	BE SAMPLED BY CONVENTIONAL SOIL SAMPLING TOOLS OR TECHNIQUES. THE BOUNDARY BETWEEN SOIL	DIR - THE ANGLE RETURNS A REDDING PLANE, JOINT PLANE OR FAULT PLANE AND THE WAR HELD IN	ORG ORGANIC V VERY
• 200, 15 MX25 MX10 MX35 MX35 MX35 MX35 MX36 MX36 MX36 MX36 MX36 MX	AND ROCK IS ARBITRARY TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK' FOR THE PURPOSE OF THIS INVESTIGATION, THESE MATERIALS ARE DIVIDED AS	HORIZONTAL, MEASURED PERPENDICULAR TO THE STRIKE.	military and the second second section with the second with the
	FOLLOWS: NOTE: THIS IS NOT APPLICABLE TO NON-INDURATED COASTAL PLAIN SAND AND GLAY DEPOSI	S.DUMPS - UNCOVERED DEPOSITS OF WASTE MATERIAL SUCH AS WOOD, MASONRY DEBRIS OR GARBAGE.	- The Control of the
LICUID LINIT 40 MX 41 MN 50 ILS VITH PLASTIC INDEX 6 MX N.P. 10 MX 10 MX 11 MN 11 MN 110 MX 110 MX 111 MN 11 MN 11 MN LITTLE OR HIGHLY	TOCKSTONE THE TOTAL THE TO	FAULT - A BREAK IN THE CONTINUITY OF A BODY OF ROCK, ATTENDED BY A MOVEMENT ON	CONTRACT STOTICE 18 WX 12 HX16 HX 19 HX MODERATE COMMIC
l l l l l l l l l l l l l l l l l l l	SOFT MATERIAL THAT CAN BE PENETRATED WITH SOME	EITHER OR BOTH SIDES OF THE BREAK	CAUTION NOTICE
GROUP INDEX 0 0 0 4 MX 8 MX 12 MX 15 HX NO MX MODERATE AMOUNTS OF SOILS	WEATHERED DIFFICULTY USING POWER AUGERS OR YIELDS	FINES - PORTIONS OF A SOIL FINER THAN NO. 200 U.S. STANDARD SIEVE.	AND CONTROL OF INVESTIGATION ON WHICH IT IS BASED WAS MADE
USUAL TYPES STONE FRAGS FINE SILTY OR CLAYEY SILTY CLAYEY ORGANIC	ROCK(SWR) SPT VALUES > 100 BLOWS BUT < SPT REFUSAL.	FISSILITY OR FISSILE - A PROPERTY OF SPLITTING EASILY ALONG CLOSELY SPACED PARALLEL	THE THE DURDOCT OF CTURY PLANNING AND DESIGN, AND NOT: FOR CONSTRUCTION
OF MAJOR GRAVEL AND SAND GRAVEL AND SAND SOILS SOILS MATTER	HARD MATERIAL THAT CAN BE PENETRATED WITH GREAT	PLANES.	COUR DATA OPTAINED MAY RE OMITTED FROM THIS RELEASE.
MATERIALS SAND	WEATHERED DIFFICULTYY USING POWER AUGERS OR YIELDS	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.	ADDITIONAL INFORMATION MAY BE AVAILABLE, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
AS A EXCELLENT TO GOOD FAIR TO POOR POOR UNSUITABLE	TOUR STORY STORY STORY STORY STATE CANNOT BE	FLOODPLAIN - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.	
SIRGROFE POUR	PENETRATED BY POWER AUGERS, EXCEPT IN THIN	THE PARTY OF THE P	FIELD BORING LOGS C
P.I. OF A-7-5 ≤ L.L 30 : P.I. OF A-7-5 > L.L 30	HOLK (HR) LINE LEDGES, AND REGURES ROCK CORING TOOLS FOR OBTAINING A SAME	E FORMATION - A MAPPABLE UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.	ROCK CORES TO DENGTO SOIL & ROCK TEST DATA: STANSWELL
CONSISTENCY OR DENSENESS		FRACTURE - A CRACK LARGE ENOUGH TO BE VISIBLE TO THE UNAIDED EYE.	The concrete of DCDODT to the DCCT of the
RANGE OF STANDARD RANGE OF UNCONFINED	• SPT REFUSAL ≤ 25 mm OF PENETRATION PER 50 BLOWS. •••AN INFERRED ROCK LINE INDICATES THE ESTIMATED BOUNDARY OF HARD ROCK AS JUDGED BY THE	FRIABLE - EASY TO BREAK OR CHUMBLE.	
PRIMARY SOIL TYPE COMPACTNESS OR PENETRATION RESISTENCE COMPRESSIVE STRENGTH N-VALUE COMPACTNESS OR N-VALUE COMPACTNESS OR (KN/m²)	ENGINEERING GEOLOGIST. A FULL DESCRIPTION OF ROCK IS GIVEN INCLUDING:	GRANULAR MATERIAL - SOIL THAT WHEN UNCONFINED HAS LITTLE OR NO DRY STRENGTH AND HAS	THIS INFORMATION MAY BE VIEWED BY APPOINTMENT BY CONTACTING THE N. C. DEPARTMENT OF
		LITTLE OR NO COHESION WHEN SUBMERGED.	THIS INFORMATION MAY BE VIEWED BY APPOINTMENT BY CONTINUE THE SUBSURFACE PLANS AND REPORTS, TRANSPORTATION, GEOTECHNICAL LINIT (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, TRANSPORTATION, GEOTECHNICAL LINIT (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, TRANSPORTATION, GEOTECHNICAL LINIT (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS,
VERY LOOSE	CORE RECOVERY (REC.)-TOTAL LENGTH OF ROCK RECOVERED IN THE CORE BARREL DIVIDE	GROUNDWATER (G.W.) - WATER THAT IS FREE TO MOVE THROUGH SOIL MASS UNDER THE INFLUENCE	TRANSPORTATION, GEOTECHNICAL UNIT & (919) 250-4088, NEITHER THE SUBSURFACE FEMALE, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA IS PART OF THE CONTRACT. 10 10 10
GENERALLY LOOSE 4 TO 10 N/A GRANULAR MEDIUM DENSE 10 TO 30 N/A		OF GRAVITY.	GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A
MATERIAL DENSE 30 TO 50	ROCK QUALITY DESIGNATION (ROD)-TOTAL LENGTH OF SOUND ROCK SEGMENTS RECOVERED	GROUNDWATER LEVEL - LEVEL OF WATER WITH RESPECT TO EXISTING GROUND SURFACE.	
VERY DENSE >50	THAT ARE LONGER THAN OR EQUAL TO 100 mm DIVIDED BY THE TOTAL LENGTH OF THE CORE RUN EXPRESSED	HARDPAN - A GENERAL TERM USED TO DESCRIBE A HARD CEMENTED SOIL LAYER WHICH DOES .	REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETTER BURGETHE IN SITE (IN-PLACE) TEST DATA CAN BE
VERY SOFT <2 <25	AS A PERCENTAGE.	1401 DOLLET WILLT	WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA ANOTHER STANDARD TEST METHOD. RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENTING THE STANDARD TEST METHOD. RELIED ON ONLY TO THE DEGREE OF RELIABILITY CONDITIONS INDICATED IN THE SUBSURFACE
SOFT 2 TO 4 25 TO 50	GROUNDWATER	INDURATED - EARTH MATERIAL HARDENED BY HEAT, PRESSURE OR CEMENTATION.	RELIED ON ONLY TO THE DEGREE OF RELIABILITY INTERNET ON THE SUBSURFACE THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE THE OBSERVED WATER LEVELS OR SOIL
GENERALLY MEDIUM STIFF 4 TO 8 50 TO 100	WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING.	INTERBEDDED - ALTERNATING LENSES OR LAYERS OF SOIL AND/OR ROCK MATERIALS.	THE OBSERVED WATER LEVELS OR SOIL MOISTORE CONDITIONS INDICATION. THESE WATER LEVELS OR SOIL INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL
SILT-CLAY STIFF 8 TO 15 100 TO 200 MATERIAL VERY STIFF 15 TO 30 200 TO 400	1 7 7	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.	
MATERIAL VERY STIFF 15 TO 30 200 10 400			
1 12.11 012.1	STATIC WATER LEVEL AFTER 14 HOURS.	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm.	TEMPERATURES, PRECIPITATION AND WING, AS WELL AS WALLY
HARD >30 >400	SIRILU WATER LEVEL AFTER	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm.	TEMPERATURES, PRECIPITATION AND MINU. AS HELD SO THAT DETAILS SHOWN ON THE SUBSURFACE PLANS
1 12.11 012.1	PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS.	TEMPERATURES, PRECIPITATION AND MINU. AS HELD AND THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS ARE DIFFERENT, FOR BIDDING
HARD >30 >400 TEXTURE OR GRAIN SIZE	STATIC WATER LEVEL AFTER	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm.	TEMPERATURES, PRECIPITATION AND MINU. AS WELL AS HALL SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS ARE DIFFERENT. FOR BIDDING ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN OF AND DOCIMENTS FOR FINAL DESIGN.
HARD >30 >400	PERCHED WATER. SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.	TEMPERATURES, PRECIPITATION AND THULL AS HELD SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR CUARANTEE THE SUFFICIENCY INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR CUARANTEE THE SUFFICIENCY
HARD >30 >400	PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. 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.	TEMPERATURES, PRECIPITATION AND THIND, AS WELL AS HOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND ODCUMENTS 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 OPTIONS OF THE OR ACCURACY OF THE INVESTIGATION MADE, AND CONTRIVENCE TO BE FENCINTERED. THE BIDDER OR
HARD >30 >400	PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA O-W- SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ST. SAMPLE	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. 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. MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN	TEMPERATURES, PRECIPITATION AND WIND. AS WELL SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT, THE DEPARTMENT DOES NOT WARRANTT OR CUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS TO BE ENCOUNTERED. THE BIDDER OR DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR
HARD >30	PERCHED WATER. SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ROADWAY EMBANKMENT WITH SOIL DESCRIPTION ST TEST BORING DESIGNATIONS ST TEST BORING DESIGNATIONS	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. 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. MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS.	TEMPERATURES, PRECIPITATION AND THAT DETAILS SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT[OR CUARANTEE THE SUFFICIENCY OF ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE OR ACCURACY OF THE INVESTIGATION AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS
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HARD 330 3400	PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ROADWAY EMBANKMENT WITH SOIL DESCRIPTION SERVIN SAMPLE POT TEST BORING DESIGNATIONS SERVIN SAMPLE POT TEST BORING SERVIN SAMPLE P	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. LEOGE - 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. MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS. MICACEOUS SOIL (MIC.) - A SOIL OR ROCK TYPE CONTAINING AN APPRECIABLE AMOUNT OF MICA.	TEMPERATURES, PRECIPITATION AND MINU, AS HELD STATES SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS AND DOCUMENTS FOR FINAL DESIGN AND CONSTRUCTION PURPOSES, REFERTO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE ON POTIONS OF THE OR ACCURACY OF THE INVESTIGATION AND ENOUTIONS TO BE ENCOUNTERED. THE BIDDER OR DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED ON THIS PROJECT. THE NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THIS PROJECT. THE NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE OCONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OF FOR AN EXTENSION OF TIME FOR CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OF FOR AN EXTENSION OF TIME FOR
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HARD 330 3400	PERCHED WATER. SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ROADWAY EMBANKMENT WITH SOIL DESCRIPTION SOIL SYMBOL ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS MAY BE SHOWN WITH SOIL SYMBOL INFERRED SOIL BOUNDARIES ALLUVIAL/RESIDUAL BOUNDARIES DIP DIRECTION AND DIP OF STRUCTURE SPICE MONITORING WELL PIEZOMETER INSTALLATION SOUNDING ROADWAY SOUNDING ROADWAY SOUNDING ROADWAY SOUNDING ROADWAY APPARENT DIP (NORMAL TO) SPT N-COUNT	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. LEGGE - 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. MARL - A NON-INDURATEG, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS. MICACEOUS SOIL (MIC.) - A SOIL OR ROCK TYPE CONTAINING AN APPRECIABLE AMOUNT OF MICA. MUCK (MK.) - A HIGHLY ORGANIC SOIL OF VERY SOFT CONSISTENCY, GENERALLY FOUND ON TIDAL FLATS, LAKE OR STREAM FLOODPLAINS. PEAT (PT) - A FIBROUS MASS OF ORGANIC MATTER IN VARIOUS STAGES OF DECOMPOSITION. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK - SEE LEGEND ROCK OUALITY DESIGNATION (R.O.D.) - A MEASURE OF ROCK QUALITY DESCRIBED BY, TOTAL LENGTH OF CORE RUN EXPRESSED AS A PÉRCENTAGE. SANITARY LANDFILLS - COMPACTED AND/OR COVERED LAYERS OF SOIL AND WASTE PRODUCTS. SAPROLITE (SAP.) - RESIDUAL SOIL WHICH RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. SAPROLITE (SAP.) - RESIDUAL SOIL WHICH RETAINS THE RELIC STRUCTURE OR FABRIC OF FABRIC OF THE PARENT ROCK.	TEMPERATURES, PRECIPITATION AND MINUTAS HELD SHOWN ON THE SUBSURFACE PLANS 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 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 OF ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE ORDERATMENT 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 OCONTRACTOR 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 OCONTRACTOR 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 IT IS CONSIDERED TO BE PART OF THE PLANS. SPECIFICATIONS. OR CONTRACT FOR THE PROJECT. NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY VAIVES 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:
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TEXTURE OR GRAIN SIZE U.S. STD. SIEVE SIZE OPENING (mim) 4.76 2.0 0.42 0.25 0.075 0.053 BOULDER COBBLE GRAVEL COARSE 1 - 1 - FINE SAND SAND SILT CLAY GRAIN, mm 305 75 2 0.6 0.425 0.2 0.075 0.002 GRAIN, mm 305 75 2 0.6 0.425 0.2 0.075 0.002 GRAIN, mm 305 75 2 0.6 0.425 0.2 0.075 0.002 GRAIN, mm 305 TEXTURE OR GRAIN SIZE COARSE - 1 - 1 - FINE SAND SAND SAND SAND SAND SAND SAND SAND	PERCHED WATER. SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ROADWAY EMBANKMENT WITH SOIL DESCRIPTION ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS MAY BE SHOWN WITH SOIL SYMBOL ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS MAY BE SHOWN WITH SOIL SYMBOL INFERRED SOIL BOUNDARIES ALLUVIAL/RESIDUAL BOUNDARIES DIP DIRECTION AND DIP OF STRUCTURE TOP INSTALLATION APPARENT DIP (NORMAL TO) POPT N-COUNT TORILL UNITS: AUGER TOOLS: MOBILE B G' (152 mm) CONTINUOUS FLIGHT BK-51 B* (203 mm) HOLLOW AUGERS HAND TOOLS: POST HOLE DIGGER	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. LEGGE - 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. MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS. MICACEOUS SOIL (MIC.) - A SOIL OR ROCK TYPE CONTAINING AN APPRECIABLE AMOUNT OF MICA. MUCK (MK.) - A HIGHLY ORGANIC SOIL OF VERY SOFT CONSISTENCY, GENERALLY FOUND ON TIDAL FLATS. LAKE OR STREAM FLOODPLAINS. PEAT (PT) - A FIBROUS MASS OF ORGANIC MATTER IN VARIOUS STAGES OF DECOMPOSITION. PERCHED WAITER WAITER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK - SEE LEGEND ROCK OUALITY DESIGNATION (R.O.D.) - A MEASURE OF ROCK GUALITY DESCRIBED BY: TOTAL LENGTH OF CORE RUN EXPRESSED AS A PÉRCENTAGE. SANITARY LANDFILLS - COMPACTED AND/OR COVERED LAYERS OF SOIL AND WASTE PRODUCTS. SAPROLITE (SAP.) - RESIDUAL SOIL WHICH RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. SILCKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLAIN. SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THICKNESS IS SLIGHT COMPARED TO ITS LATERAL EXTENT. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL.	TEMPERATURES, PRECIPITATION AND MINUTAND STREET SHOWN ON THE SUBSURFACE PLANS THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS AND DOCUMENTS FOR FINAL DESIGN 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 INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. HE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS 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 INPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS. SPECIFICATIONS. OR CONTRACT FOR THE PROJECT. NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY VAIVES 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:
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HARD 330 3400	PERCHED WATER. SATURATED ZONE OR WATER BEARING STRATA SPRING OR SEEPAGE MISCELLANEOUS SYMBOLS AND ABBREVIATIONS ROADWAY EMBANKMENT WITH SOIL DESCRIPTION SOIL SYMBOL ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS MAY BE SHOWN WITH SOIL SYMBOL INFERRED SOIL BOUNDARIES ALLUVIAL/RESIDUAL BOUNDARIES DIP DIRECTION AND DIP OF STRUCTURE SPT N-COUNT FOULPMENT USED ON SUBJECT PROJECT DRILL UNITS: AUGER TOOLS: MOBILE B 6' (152 mm) CONTINUOUS FLIGHT MOBILE B 6' (152 mm) CONTINUOUS FLIGHT MOBILE B 6' (152 mm) HOLLOW AUGERS HAND TOOLS: CME-45 HAND TOOLS: CME-45 HAND TOOLS: MOBILE DIGGER POST HOLE DIGGER HAND AUGER HAND AUGER	LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 25 mm. LAYER - SUBJECT MATERIAL GREATER THAN 25 mm IN THICKNESS. LEGGE - 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. MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS. MICACEOUS SOIL (MIC.) - A SOIL OR ROCK TYPE CONTAINING AN APPRECIABLE AMOUNT OF MICA. MUCK (MK.) - A HIGHLY ORGANIC SOIL OF VERY SOFT CONSISTENCY, GENERALLY FOUND ON TIDAL FLATS, LAKE OR STREAM FLOODPLAINS. PEAT (PT) - A FIBROUS MASS OF ORGANIC MATTER IN VARIOUS STAGES OF DECOMPOSITION. PEARLED WATER AUNTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK - SEE LEGEND ROCK - SEE LEGEND ROCK OUALITY DESIGNATION (R.O.O.) - A MEASURE OF ROCK GUALITY DESCRIBED BY: TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 100 mm DIVIDED BY THE TOTAL! LENGTH OF CORE RUN EXPRESSED AS A PERCENTAGE. SANITARY LANDFILLS - COMPACTED AND/OR COVERED LAYERS OF SOIL AND WASTE PRODUCTS. SAPROLITE (SAP.) - RESIDUAL SOIL WHICH RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PRAEENT ROCK. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLAIN. SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THICKNESS IS SLIGHT COMPARED TO ITS LATERAL EXTENT. SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS; (N) OF A 140 POUND (63.5 kg) HAMMER FALLING O.76 m REQUIRED TO PRODUCE A PENETRATION	TEMPERATURES, PRECIPITATION AND MINUTAS HELD SHOWN ON THE SUBSURFACE PLANS 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 INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE OR OPTIONS OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. HE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS 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 IT IS CONSIDERED TO BE PART OF THE PLANS. PRECIFICATIONS OR CONTRACT FOR THE PROJECT. NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY VAIVES 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:
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