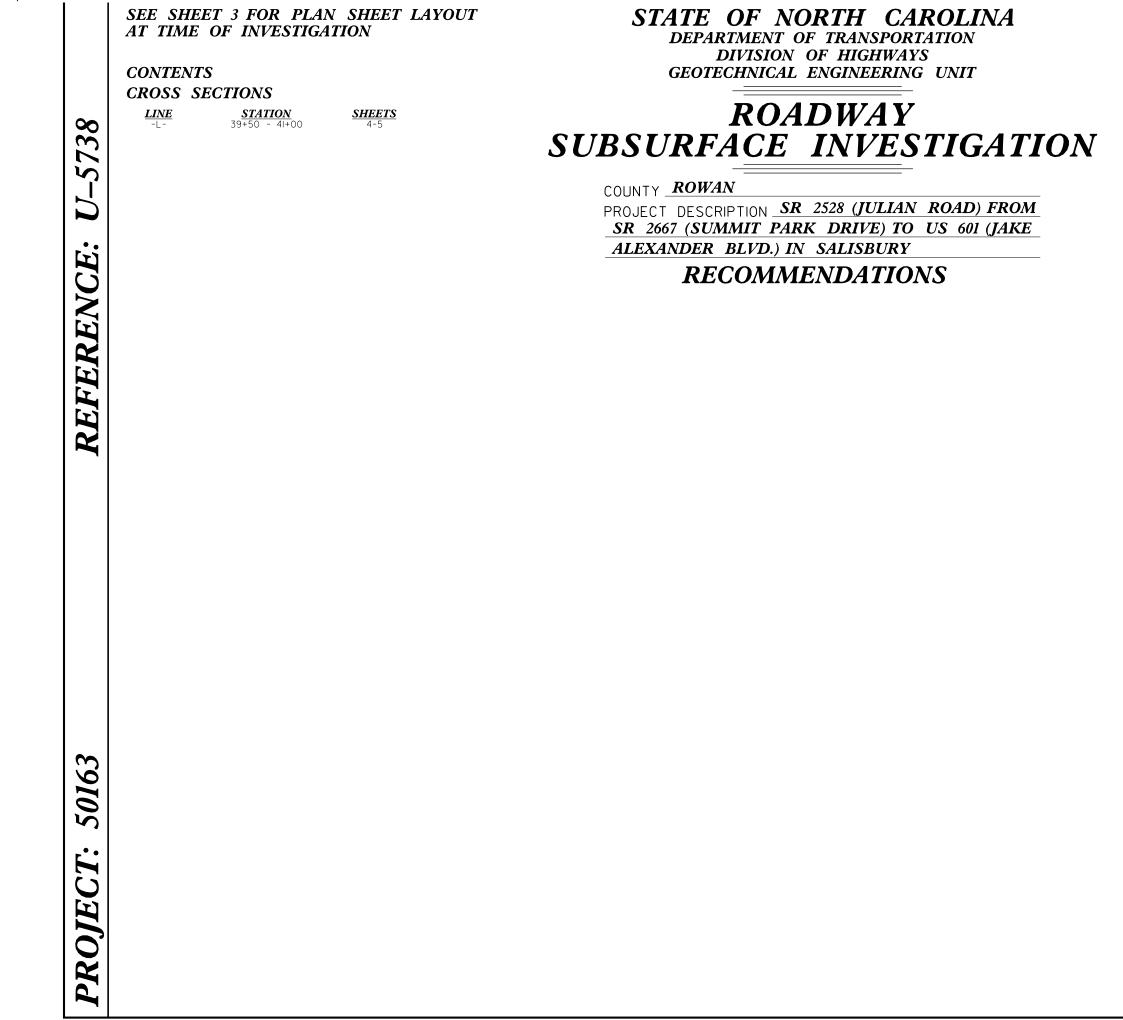
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CAUTION NOTICE

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 FILLD BORING LOGS, ROCK CORES AND SOLL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (99) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOLL TEST DATA ARE NOT PART OF THE CONTRACT.

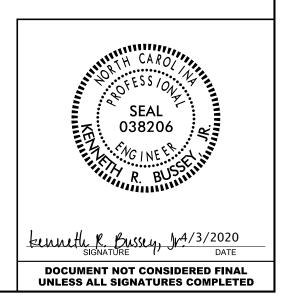
GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN STUI (IN-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 AND YARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUENCE ENDERDATIONS AND WAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUENCE ENDERDATIONS AND WART TO AND AS WELL AS OTHER DONLO WATTRE CARTORS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE UBSURFACE 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 OPINION OF THE DEPARTMENT DAVE NAMES 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 ADDITIONS TO BE ENCOUNTERED ON THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATIONS TO BE ENCOUNTERED ON THE PROJECT, THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONS TO BE ENCOUNTERED ON THE STRUCTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SIDE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES: I. 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 REQUESTED THS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

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| CHECKED BY M.G. BATTEN |
| SUBMITTED BY |
| DATE APRIL 2020 |



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

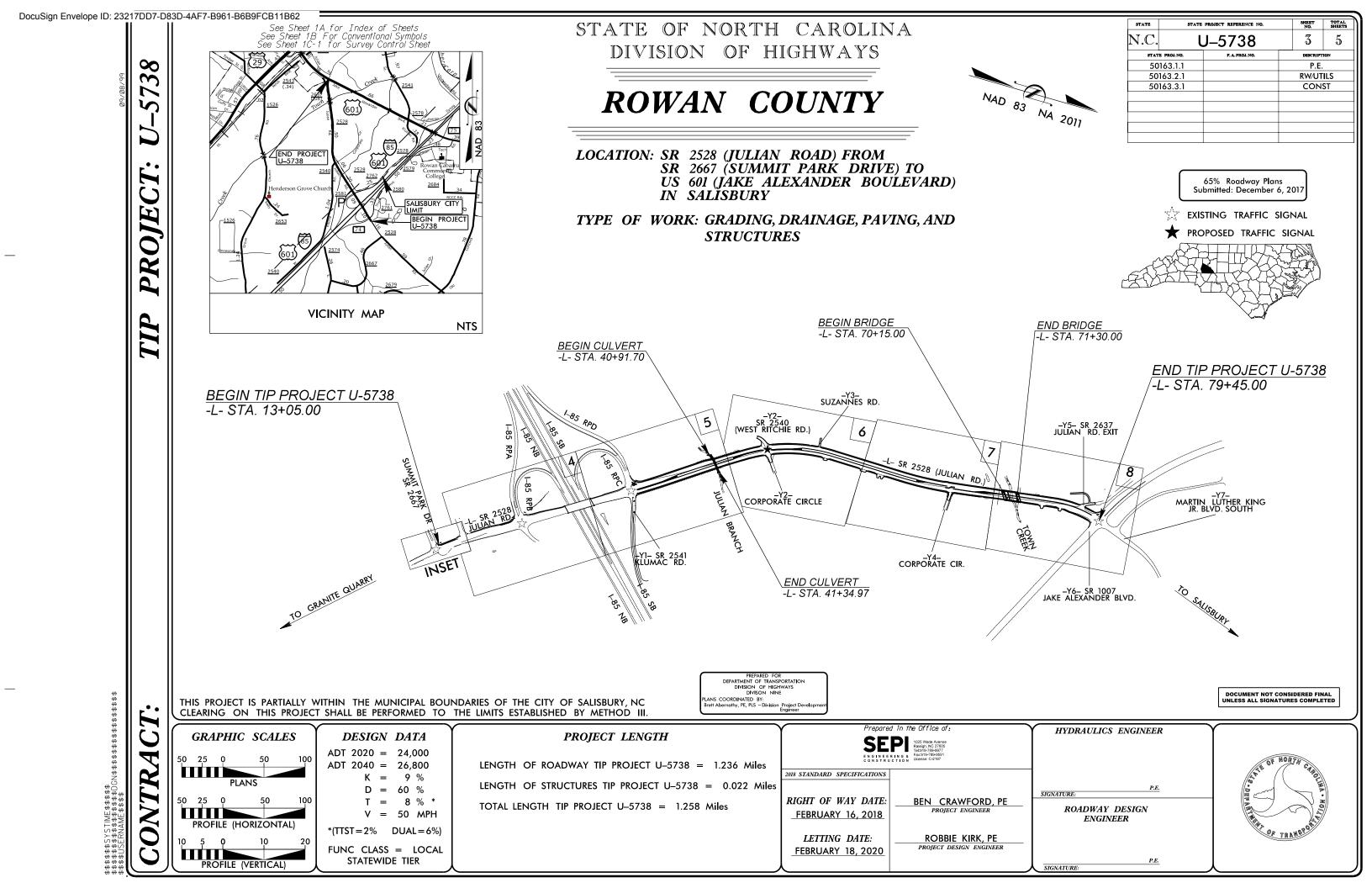
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

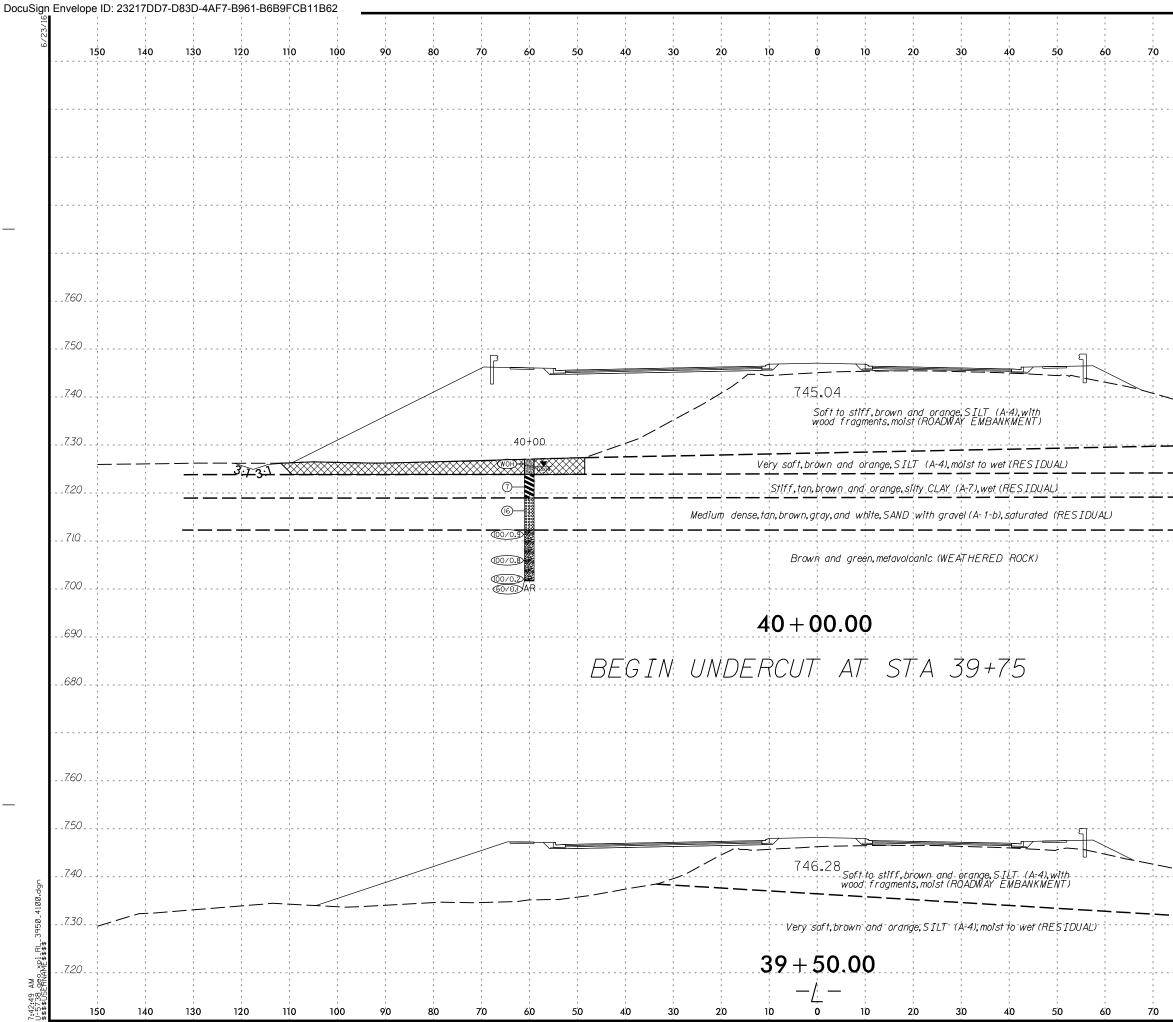
| SOIL | DESCRIPTION | GRADATION | ROCK DESCRIPTION | | |
|---|--|--|--|--|--|
| BE PENETRATED WITH A CONTINUOUS FLIGHT PC ACCORDING TO THE STANDARD PENETRATION TI IS BASED ON THE AASHTO SYSTEM, BASIC CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHT | WER AUGER AND YIELD LESS THAN 100 BLOWS PER FO ST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATIO DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: O CLASSIFICATION, AND OTHER PERTINENT FACTORS SU | WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES. ANGULARITY OF GRAINS | ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIEL SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN Ø BLOWS IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK REPRESENTED BY A ZONE OF WEATHERED ROCK. | | |
| | | THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: | 51//31//2 | | |
| SOIL LEGEND AND | AASHTO CLASSIFICATION | | ROCK (WR) 100 BLOWS PER FOOT IF TESTED. | | |
| GENERAL GRANULAR MATERIALS CLASS. (≤ 35% PASSING *200) | SILT-CLAY MATERIALS (> 35% PASSING #200) ORGANIC MATERIALS | | CRYSTALLINE FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC R | | |
| GROUP A-1 A-3 A-2 | | ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE. | ROCK (CR) GNEISS, GABBRO, SCHIST, ETC. | | |
| CLASS. A-1-a A-1-b A-2-4 A-2-5 A-2-6 A- | 2-7 A-75, A-3 A-6, A-7 | COMPRESSIBILITY | ROCK (NCR) | | |
| | | SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50 | COASTAL PLAIN COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT | | |
| % PASSING | SILT- | HIGHLY COMPRESSIBLE LL > 50 | SEDIMENTARY ROCK SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SAND | | |
| *10 50 MX *40 30 MX 50 MX 51 MN | SOLIS CLAY M | | WEATHERING | | |
| =200 15 MX 25 MX 10 MX 35 MX 35 MX 35 MX 35 | MX 36 MN 36 MN 36 MN 36 MN | | FRESH ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK | | |
| | | LITTLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE 10 - 20% MODERATELY ORGANIC 5 - 10% 12 - 20% SOME 20 - 35% | HAMMER IF CRYSTALINE. VERY SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY I (V SLI) CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER I | | |
| | MN 10 MX 10 MX 11 MN 11 MN MODERATE OR | | OF A CRYSTALLINE NATURE. | | |
| USUAL TYPES STONE FRAGS. OF MOTOR CRAVEL AND FINE SILTY OR CLAYEY | SILTY CLAYEY MATTER | WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING | SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO R (SLI.) I INCH, DPEN JOINTS MAY CONTAIN CLAY, IN GRANITOID ROCKS SOME OCCASION CRYSTALS ARE DULL AND DISCOLORED, CRYSTALLINE ROCKS RING UNDER HAMME | | |
| MATERIALS SAND SAND GRAVEL AND SAND | SUILS SUILS | | MODERATE SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFEC | | |
| GEN. RATING AS SUBGRADE EXCELLENT TO GOOD | PUUK | BLE | DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGT WITH FRESH ROCK. | | |
| | | | | | |
| COMPACTNESS OD | RANGE OF STANDARD RANGE OF UNCONFIN | | (MOD.SEV.) AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND | | |
| | (N-VALUE) (TONS/FT ²) | WITH SOIL DESCRIPTION OF ROCK STRUCTURES | SEVERE ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND (SEV.) REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS | | |
| GENERALLY LOOSE GRANULAR MEDIUM DENSE | | | | | |
| (NON-COHESIVE) VERY DENSE | 30 TO 50 | | SEVERE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS (| | |
| GENERALLY SOFT | | \downarrow | | | |
| SILT-CLAY MEDIUM STIFF MATERIAL STIFF (COHESIVE) VERY STIFF | 4 TO 8 0.5 TO 1.0 8 TO 15 1 TO 2 | | SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGER | | |
| HARD | > 30 > 4 | | | | |
| TEXTURE | OR GRAIN SIZE | | | | |
| | 0.42 0.25 0.075 0.053 | UNDERCOT ZZ UNSUITABLE WASTE ACCEPTABLE, BUT NOT TO BE | HARD CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER (| | |
| | SAND SAND SILT CLA | | MODERATELY CAN BE SCRATCHED BY KNIFE OR PICK, GOUGES OR GROOVES TO 0.25 INCHES D HARD EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK, HAND SPECIMENS CAN BE | | |
| GRAIN MM 305 75 2.0 SIZE IN. 12 3 | 0.25 0.05 0.005 | BT - BORING TERMINATED MICA MICACEOUS WEA WEATHERED | MEDIUM CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE | | |
| | | CPT - CONE PENETRATION TEST NP - NON PLASTIC $\dot{\gamma}_{ m d}$ - DRY UNIT WEIGHT | POINT OF A GEOLOGIST'S PICK. | | |
| | | IN DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST <u>SAMPLE ABBREVIATIONS</u> | FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POI | | |
| | | F - FINE SL SILT, SILTY ST - SHELBY TUBE | SOFT OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATC | | |
| PLASTIC RANGE < - WET - | | FRAC FRACTURED, FRACTURES TCR - TRICONE REFUSAL RT - RECOMPACTED TRIAXIAL FRAGS FRAGMENTS w - MOISTURE CONTENT CBR - CALIFORNIA BEARING | FRACTURE SPACING BEDDING | | |
| "" PLL + PLASTIC LIMIT | | | | | |
| UM _ UPTIMUM MUISTURE | - (M) SOLID; AT OR NEAR OPTIMUM MOISTUR | | WIDE 3 TO 10 FEET THICKLY BEDDED | | |
| SL SHRINKAGE LIMIT | | | CLOSE Ø.16 TO 1 FOOT VERY THINLY BEDDED Ø. | | |
| - DRY - | | 6' CONTINUOUS FLIGHT AUGER | | | |
| PI | ASTICITY | | | | |
| | | | | | |
| NON PLASTIC | 0-5 VERY LOW | TUNGCARBIDE INSERTS | | | |
| SLIGHTLY PLASTIC MODERATELY PLASTIC HIGHLY PLASTIC | 16-25 MEDIUM | X CASING W/ ADVANCER POST HOLE DIGGER | GRAINS CAN BE SEPARATED FROM SAMPLE WITH S | | |
| | | TRICONE TUNGCARB. | GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL | | |
| | | Image: A constraint of the state of the | | | |



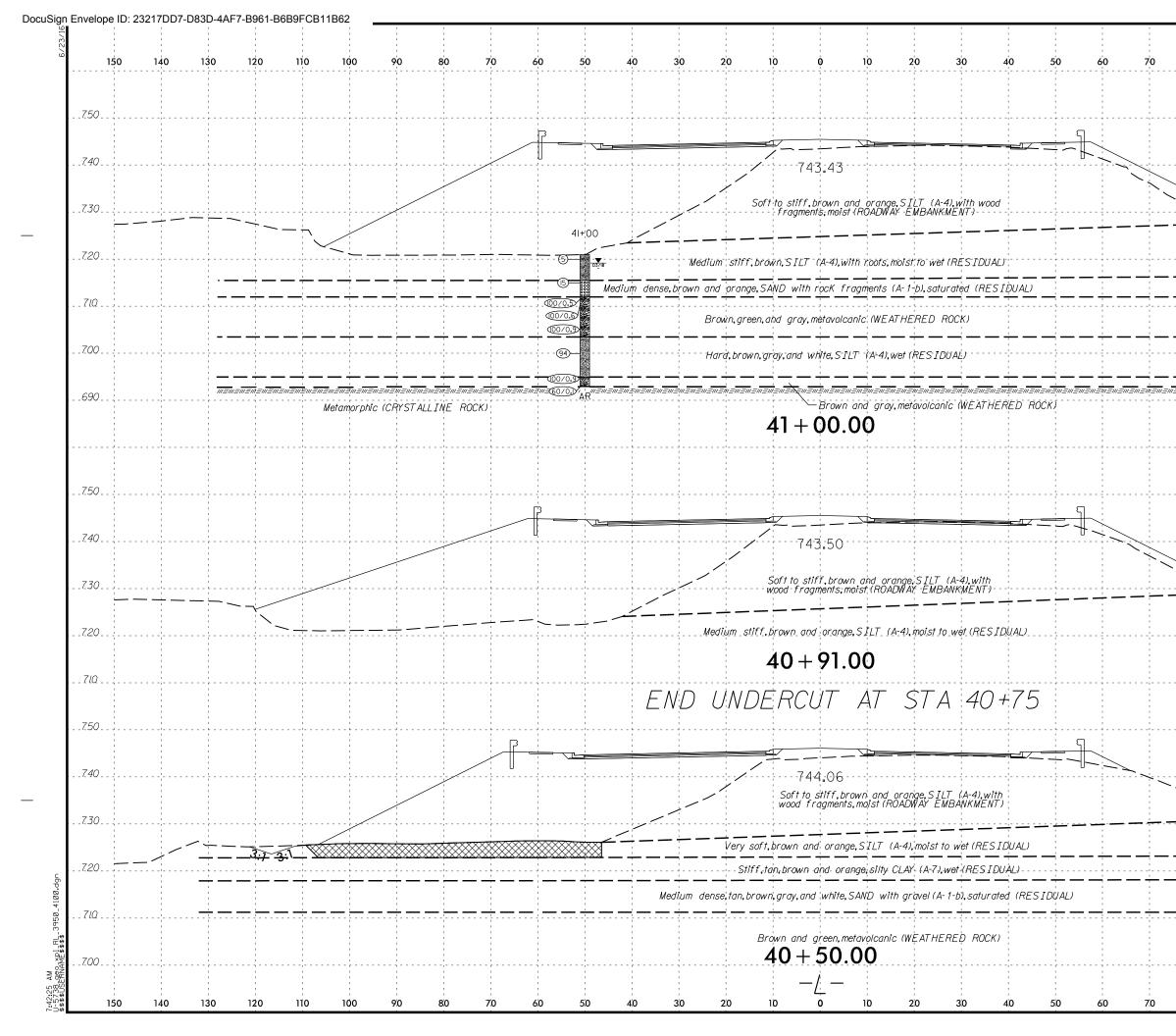


| | TERMS AND DEFINITIONS | | | | | |
|---|---|--|--|--|--|--|
| STED. AN INFERRED | ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. | | | | | |
| LD SPT REFUSAL. 0.1 FOOT PER 60 | AQUIFER - A WATER BEARING FORMATION OR STRATA. | | | | | |
| CK IS OFTEN | ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. | | | | | |
| | ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING | | | | | |
| SPT N VALUES > | A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC. ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT | | | | | |
| ROCK THAT INCLUDES GRANITE, | WHICH IT IS ENCOUNTERED.BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE. | | | | | |
| STAL PLAIN AL IF TESTED. ETC. | <u>CALCAREOUS (CALC.)</u> - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. <u>COLLUVIUM</u> - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. | | | | | |
| NDSTONE, 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. | | | | | |
| | DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK. | | | | | |
| CK RINGS UNDER | $\underline{\text{DIP}}$ - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. | | | | | |
| Y COATINGS IF OPEN, R HAMMER BLOWS IF | <u>DIP DIRECTION (DIP AZIMUTH)</u> - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. | | | | | |
| ROCK UP TO DNAL FELDSPAR MER BLOWS. | FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. FISSILE - A PROPERTY OF SPLITING ALONG CLOSELY SPACED PARALLEL PLANES. | | | | | |
| CTS. IN | FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM | | | | | |
| CLAY. ROCK HAS GTH AS COMPARED | PARENT MATERIAL. <u>FLOOD PLAIN (FP)</u> - LAND BORDERING A STREAM,BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. | | | | | |
| L FELDSPARS DULL | FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD. | | | | | |
| E LOSS OF STRENGTH ND WHEN STRUCK. | J <u>OINT</u> - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. | | | | | |
| D EVIDENT BUT | LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT. | | | | | |
| S ARE KAOLINIZED | 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 USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. | | | | | |
| ARE DISCERNIBLE S OF STRONG ROCK | PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE | | | | | |
| HAT ONLY MINOR | OF AN INTERVENING IMPERVIOUS STRATUM. | | | | | |
| <u>N VALUES < 100 BPF</u> LY IN SMALL AND | RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. | | | | | |
| ERS. SAPROLITE IS | ROCK QUALITY DESIGNATION (ROD) - 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. | | | | | |
| IENS REQUIRES | <u>SILL</u> - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND | | | | | |
| R BLOWS REQUIRED | RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT | | | | | |
| DEEP CAN BE E DETACHED | SLICKENSIDE - FOLISHED HNU SIMIHTED SUMPHICE IMHI RESULIS FNUM FALLION HLONG H FHULI OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE)(SPT) - NUMBER OF BLOWS (N OR BPF)OF | | | | | |
| E OR PICK POINT. RD BLOWS OF THE | A 140 LB HAMMER FALLING 30 INCHES REQUIRED TO PRODUCT A PERTATION OF I 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 OINT. 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. | | | | | |
| CK. PIECES 1 INCH TCHED READILY BY | 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 THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. | | | | | |
| | TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER. | | | | | |
| THICKNESS | BENCH MARK: SEE NOTE BELOW | | | | | |
| 4 FEET | ELEVATION: N/A FEET | | | | | |
| 1.5 - 4 FEET 0.16 - 1.5 FEET | NOTES: | | | | | |
| 0.03 - 0.16 FEET 0.008 - 0.03 FEET | FIAD - FILLED IMMEDIATELY AFTER DRILLING | | | | | |
| < 0.008 FEET | | | | | | |
| | BORING AND GROUND SURFACE ELEVATIONS ACQUIRED FROM 1/15738.DDC.tin1 RECEIVED ON 1/20/2018 | | | | | |
| HEAT, PRESSURE, ETC. | | | | | | |
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