

REFERENCE: U-5757

PROJECT: 54035

SEE SHEET 3 FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

COUNTY DAVIDSON PROJECT DESCRIPTION NC 8 (WINSTON ROAD) WIDENING FROM US 29 /70 | BUS. 85 TO SR 1408 (BIESECKER RD.) IN LEXINGTON

RECOMMENDATIONS

CONTENTS

Table with columns: LINE, STATION, PROFILE. Row: -L-, 26+00.00 - 48+00.00, 4,5

CROSS SECTIONS

Table with columns: LINE, STATION, SHEETS. Rows: -L-, 26+00.00 - 28+50.00 (6,7); -L-, 42+00.00 - 48+00.00 (8-II)

Table with columns: STATE (N.C.), STATE PROJECT REFERENCE NO. (U-5757), SHEET NO. (1), TOTAL SHEETS

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 SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

- NOTES: 1. 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. 2. 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.

PERSONNEL TRIGON EXPLORATION GOODNIGHT, D.J.

INVESTIGATED BY FALCON ENG. DRAWN BY HILL, M.J. CHECKED BY HUNSBERGER, W.S. SUBMITTED BY FALCON ENG. DATE APRIL 2024



SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 208, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, <i>VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6</i>		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.		HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED, AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK. ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:		ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA. 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 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 WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE. CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. 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. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. 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 SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES. FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLOGGED FROM PARENT MATERIAL. FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. FORMATION (FM) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD. JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. 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. MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. 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. SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND 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 OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (IN OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 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. STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. 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.	
SOIL LEGEND AND AASHTO CLASSIFICATION				MINERALOGICAL COMPOSITION			
GRANULAR MATERIALS (≤ 35% PASSING #200) A-1, A-2, A-3, A-4, A-5, A-6, A-7		SILT-CLAY MATERIALS (> 35% PASSING #200) A-1, A-2, A-3, A-4, A-5, A-6, A-7		MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.		COMPRESSIBILITY SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50 HIGHLY COMPRESSIBLE LL > 50	
CONSISTENCY OR DENSENESS				GROUND WATER			
PRIMARY SOIL TYPE GENERALLY GRANULAR MATERIAL (NON-COHESIVE) GENERALLY SILT-CLAY MATERIAL (COHESIVE)		RANGE OF STANDARD PENETRATION RESISTANCE (N-VALUE) VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE		RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/FT ²) N/A < 0.25 0.25 TO 0.5 0.5 TO 1.0 1 TO 2 2 TO 4 > 4		WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING STATIC WATER LEVEL AFTER 24 HOURS PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA SPRING OR SEEP	
TEXTURE OR GRAIN SIZE				MISCELLANEOUS SYMBOLS			
U.S. STD. SIEVE SIZE OPENING (MM) 4, 10, 40, 60, 200, 270 4.75, 2.00, 0.42, 0.25, 0.075, 0.053		BOULDER (BLDR.), COBBLE (COB.), GRAVEL (GR.), COARSE SAND (CSE. SD.), FINE SAND (F SD.), SILT (SL.), CLAY (CL.)		ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION SOIL SYMBOL ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT INFERRED SOIL BOUNDARY INFERRED ROCK LINE ALLUVIAL SOIL BOUNDARY		DIP & DIP DIRECTION OF ROCK STRUCTURES SPT TEST BORING AUGER BORING CORE BORING MONITORING WELL PIEZOMETER INSTALLATION SLOPE INDICATOR INSTALLATION CONE PENETROMETER TEST SOUNDING ROD TEST BORING WITH CORE SPT N-VALUE	
SOIL MOISTURE - CORRELATION OF TERMS				RECOMMENDATION SYMBOLS			
SOIL MOISTURE SCALE (ATTERBERG LIMITS) FIELD MOISTURE DESCRIPTION GUIDE FOR FIELD MOISTURE DESCRIPTION - SATURATED - (SAT.) USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE - WET - (W) SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE - MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE - DRY - (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE		UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE UNCLASSIFIED EXCAVATION - ACCEPTABLE DEGRADABLE ROCK UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FEET OF EMBANKMENT OR BACKFILL		AR - AUGER REFUSAL BT - BORING TERMINATED CL - CLAY CPT - COPE PENETRATION TEST CSE - COARSE DMT - DILATOMETER TEST DPT - DYNAMIC PENETRATION TEST e - VOID RATIO F - FINE FOSS. - FOSSILIFEROUS FRAC. - FRACTURED, FRACTURES FRAGS. - FRAGMENTS HI. - HIGHLY MED. - MEDIUM MICA. - MICACEOUS MOD. - MODERATELY NP - NON PLASTIC ORG. - ORGANIC PMT - PRESSUREMETER TEST SAP. - SAPROLITIC SD. - SAND, SANDY SL. - SILT, SILTY SLI. - SLIGHTLY TCR - TRICONE REFUSAL w - MOISTURE CONTENT V - VERY VST - VANE SHEAR TEST WEA. - WEATHERED UG - UNIT WEIGHT UG - DRY UNIT WEIGHT SAMPLE ABBREVIATIONS S - BULK SS - SPLIT SPOON ST - SHELBY TUBE RS - ROCK RT - RECOMPACTED TRIAXIAL CBR - CALIFORNIA BEARING RATIO			
PLASTICITY				ABBREVIATIONS			
NON PLASTIC SLIGHTLY PLASTIC MODERATELY PLASTIC HIGHLY PLASTIC		PLASTICITY INDEX (PI) 0-5 6-15 16-25 26 OR MORE		DRY STRENGTH VERY LOW SLIGHT MEDIUM HIGH		AR - AUGER REFUSAL BT - BORING TERMINATED CL - CLAY CPT - COPE PENETRATION TEST CSE - COARSE DMT - DILATOMETER TEST DPT - DYNAMIC PENETRATION TEST e - VOID RATIO F - FINE FOSS. - FOSSILIFEROUS FRAC. - FRACTURED, FRACTURES FRAGS. - FRAGMENTS HI. - HIGHLY MED. - MEDIUM MICA. - MICACEOUS MOD. - MODERATELY NP - NON PLASTIC ORG. - ORGANIC PMT - PRESSUREMETER TEST SAP. - SAPROLITIC SD. - SAND, SANDY SL. - SILT, SILTY SLI. - SLIGHTLY TCR - TRICONE REFUSAL w - MOISTURE CONTENT V - VERY VST - VANE SHEAR TEST WEA. - WEATHERED UG - UNIT WEIGHT UG - DRY UNIT WEIGHT SAMPLE ABBREVIATIONS S - BULK SS - SPLIT SPOON ST - SHELBY TUBE RS - ROCK RT - RECOMPACTED TRIAXIAL CBR - CALIFORNIA BEARING RATIO	
COLOR				EQUIPMENT USED ON SUBJECT PROJECT			
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-BROWN). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.				DRILL UNITS: <input type="checkbox"/> CME-45C <input type="checkbox"/> CME-55 <input type="checkbox"/> CME-550 <input type="checkbox"/> VANE SHEAR TEST <input type="checkbox"/> PORTABLE HOIST <input checked="" type="checkbox"/> MOBILE B-57		ADVANCING TOOLS: <input type="checkbox"/> CLAY BITS <input type="checkbox"/> 6" CONTINUOUS FLIGHT AUGER <input checked="" type="checkbox"/> 8" HOLLOW AUGERS <input type="checkbox"/> HARD FACED FINGER BITS <input type="checkbox"/> TUNG-CARBIDE INSERTS <input type="checkbox"/> CASING <input type="checkbox"/> W/ ADVANCER <input type="checkbox"/> TRICONE *STEEL TEETH <input type="checkbox"/> TRICONE *TUNG-CARB. <input type="checkbox"/> CORE BIT	
FRACTURE SPACING		BEDDING		INDURATION			
TERM VERY WIDE WIDE MODERATELY CLOSE CLOSE VERY CLOSE	SPACING MORE THAN 10 FEET 3 TO 10 FEET 1 TO 3 FEET 0.16 TO 1 FOOT LESS THAN 0.16 FEET	TERM VERY THICKLY BEDDED THICKLY BEDDED THINLY BEDDED VERY THINLY BEDDED THICKLY LAMINATED THINLY LAMINATED	THICKNESS 4 FEET 1.5 - 4 FEET 0.16 - 1.5 FEET 0.03 - 0.16 FEET 0.008 - 0.03 FEET < 0.008 FEET	FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. FRIABLE MODERATELY INDURATED INDURATED EXTREMELY INDURATED			
BENCH MARK:		BORING ELEVATIONS TAKEN FROM U5757-Is_tin_1807II_tin		DATED 11/6/2018 ELEVATION: FEET			
NOTES: FIAD - FILLED IMMEDIATELY AFTER DRILLING							

26-APR-2024 15:05 C:\Users\scadmach\OneDrive\Documents\2024\G24026\GEO\RDWY\CADD\GEO\TECH\Plan\U-5757_GEO_+Sh.dgn 09/08/99

TIP PROJECT: U-5757

CONTRACT: 54035

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

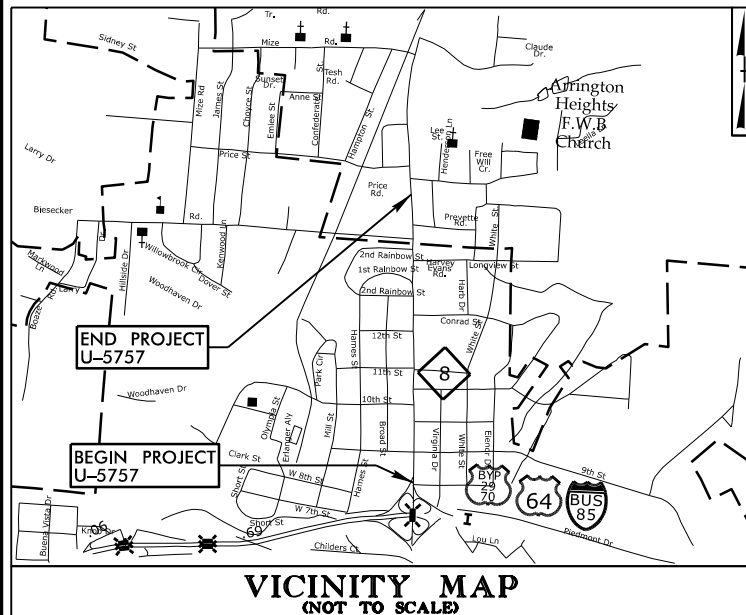
DAVIDSON COUNTY

LOCATION: NC 8 (WINSTON ROAD) WIDENING FROM US 2970 BUS 85 TO SR 1408 (BIESECKER ROAD) IN LEXINGTON

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL, AND SIGNAL UPGRADES

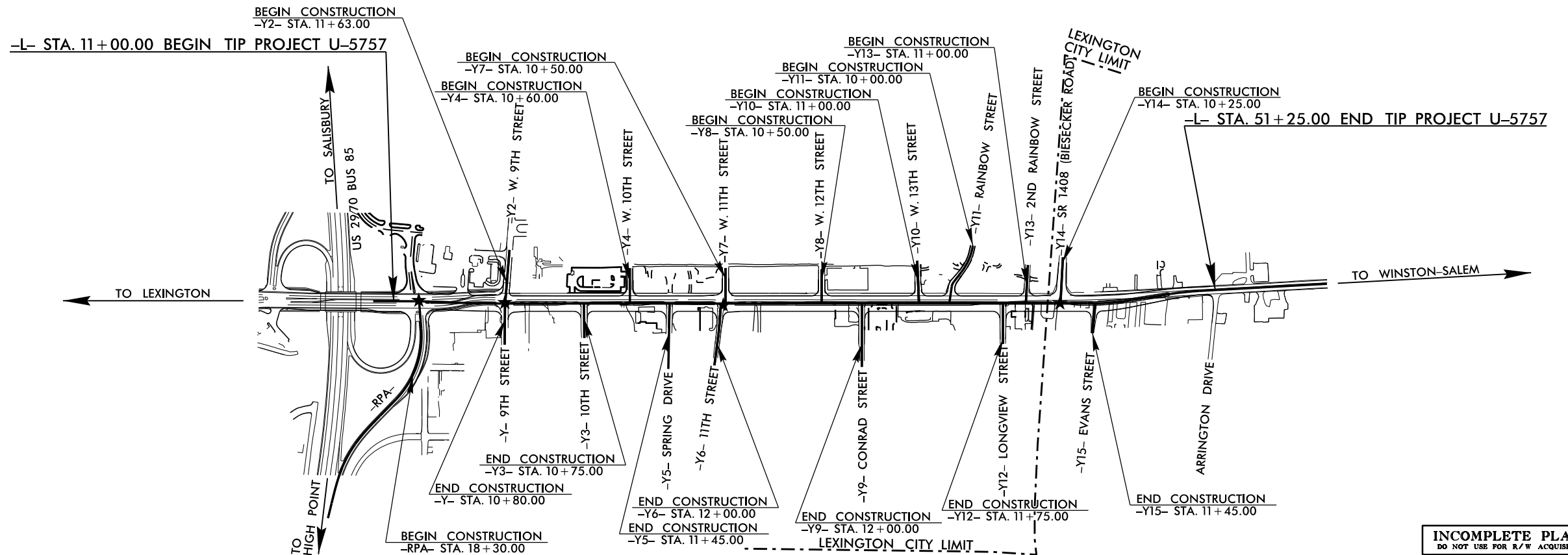
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5757	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54035.1.1	N/A	PE	

★ NEW SIGNAL AND SIGNAL UPGRADES



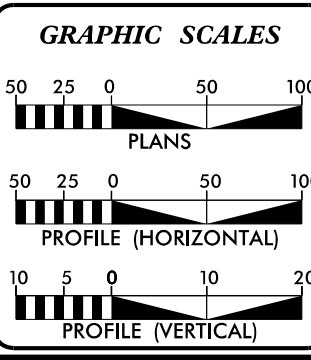
VICINITY MAP
(NOT TO SCALE)

25% PLANS



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF LEXINGTON. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2016 =	18800
ADT 2040 =	23800
K =	9 %
D =	55 %
T =	5 % *
V =	40 MPH
* TTST =	2% DUAL = 3%
FUNC CLASS =	PRINCIPAL ARTERIAL
	"REGIONAL TIER"

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5757 =	0.762 MILES
TOTAL LENGTH TIP PROJECT U-5757 =	0.762 MILES

Prepared in the Office of:

SEPI
ENGINEERING & CONSTRUCTION
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-5977
Fax: 919-789-0591
License: C-2197

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 30, 2019

LETTING DATE:
JULY 21, 2020

ROBBIE KIRK, PE
PROJECT ENGINEER

DANIEL W. GARDNER, JR., PE
PROJECT DESIGN ENGINEER

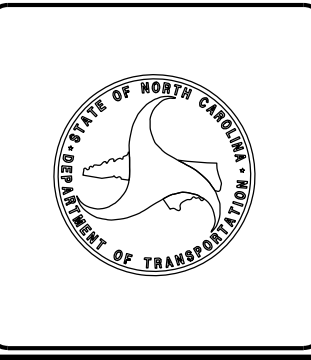
AL BLANTON, PE, PLS
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

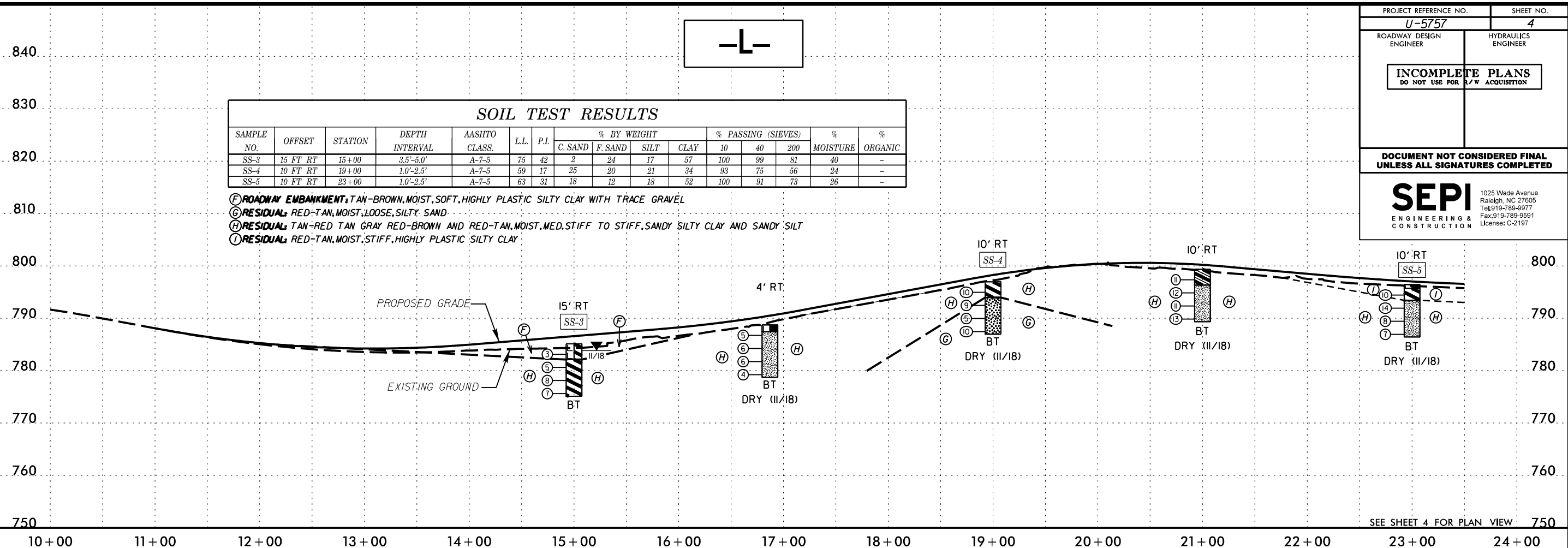
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-3	15 FT RT	15+00	3.5'-5.0'	A-7-5	75	42	2	24	17	57	100	99	81	40	-
SS-4	10 FT RT	19+00	1.0'-2.5'	A-7-5	59	17	25	20	21	34	93	75	56	24	-
SS-5	10 FT RT	23+00	1.0'-2.5'	A-7-5	63	31	18	12	18	52	100	91	73	26	-

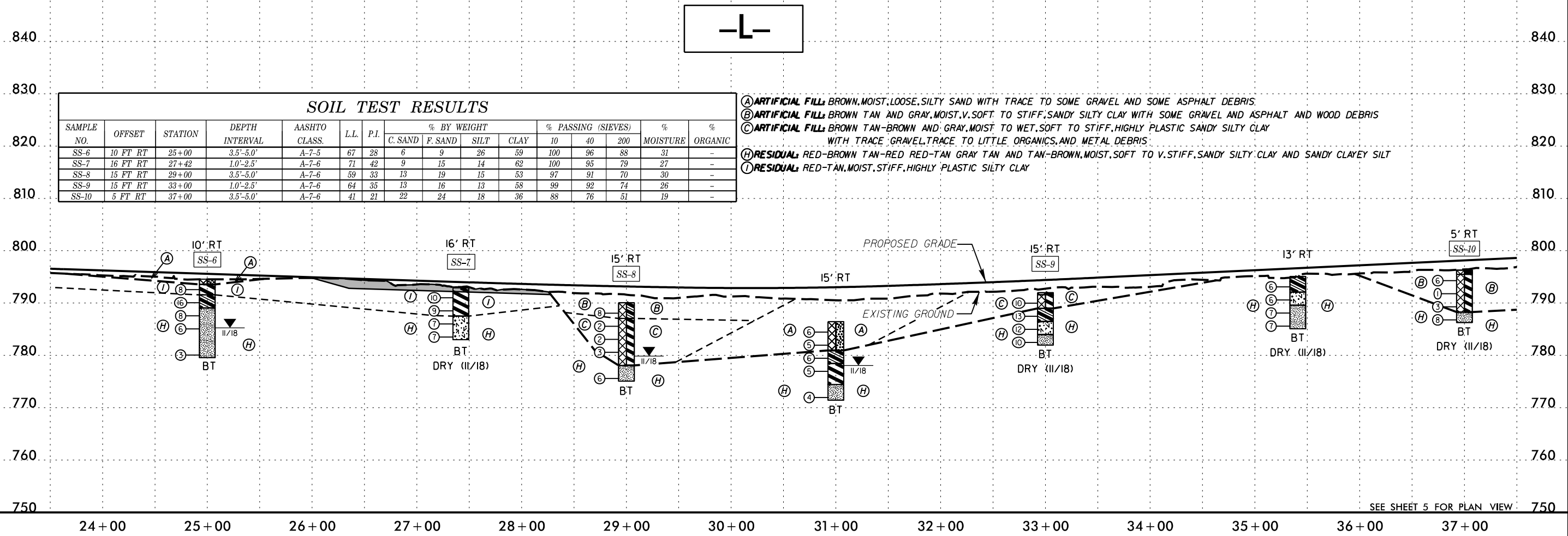
- (F) ROADWAY EMBANKMENT: TAN-BROWN, MOIST, SOFT, HIGHLY PLASTIC SILTY CLAY WITH TRACE GRAVEL
- (G) RESIDUAL: RED-TAN, MOIST, LOOSE, SILTY SAND
- (H) RESIDUAL: TAN-RED TAN GRAY RED-BROWN AND RED-TAN, MOIST, MED. STIFF TO STIFF, SANDY SILTY CLAY AND SANDY SILT
- (I) RESIDUAL: RED-TAN, MOIST, STIFF, HIGHLY PLASTIC SILTY CLAY



SEE SHEET 4 FOR PLAN VIEW

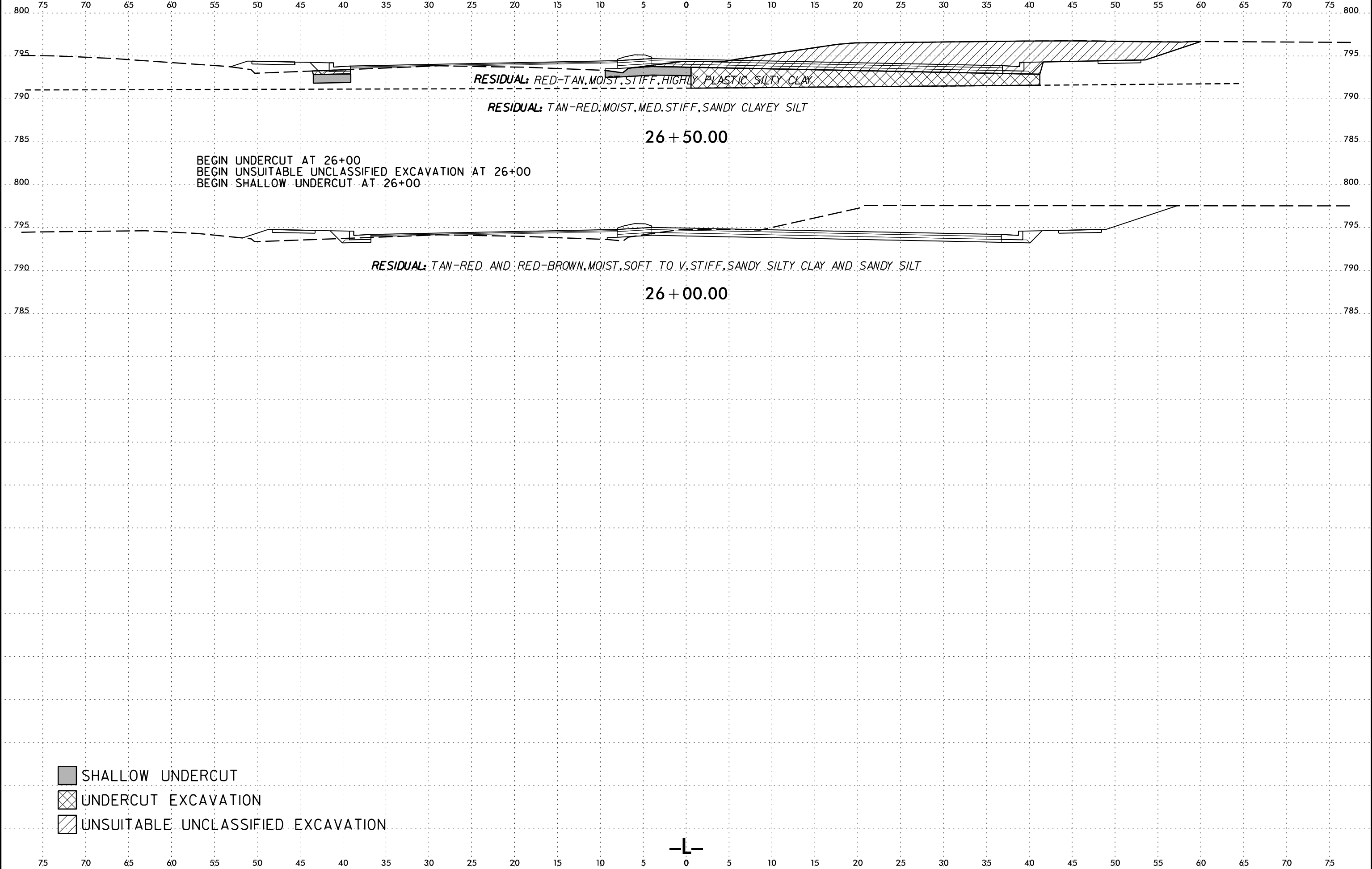
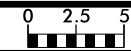
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-6	10 FT RT	25+00	3.5'-5.0'	A-7-5	67	28	6	9	26	59	100	96	88	31	-
SS-7	16 FT RT	27+42	1.0'-2.5'	A-7-6	71	42	9	15	14	62	100	95	79	27	-
SS-8	15 FT RT	29+00	3.5'-5.0'	A-7-6	59	33	13	19	15	53	97	91	70	30	-
SS-9	15 FT RT	33+00	1.0'-2.5'	A-7-6	64	35	13	16	13	58	99	92	74	26	-
SS-10	5 FT RT	37+00	3.5'-5.0'	A-7-6	41	21	22	24	18	36	88	76	51	19	-




- (A) ARTIFICIAL FILL: BROWN, MOIST, LOOSE, SILTY SAND WITH TRACE TO SOME GRAVEL AND SOME ASPHALT DEBRIS
- (B) ARTIFICIAL FILL: BROWN TAN AND GRAY, MOIST, V. SOFT TO STIFF, SANDY SILTY CLAY WITH SOME GRAVEL AND ASPHALT AND WOOD DEBRIS
- (C) ARTIFICIAL FILL: BROWN TAN-BROWN AND GRAY, MOIST TO WET, SOFT TO STIFF, HIGHLY PLASTIC SANDY SILTY CLAY WITH TRACE GRAVEL, TRACE TO LITTLE ORGANICS, AND METAL DEBRIS
- (H) RESIDUAL: RED-BROWN TAN-RED RED-TAN GRAY TAN AND TAN-BROWN, MOIST, SOFT TO V. STIFF, SANDY SILTY CLAY AND SANDY CLAYEY SILT
- (I) RESIDUAL: RED-TAN, MOIST, STIFF, HIGHLY PLASTIC SILTY CLAY



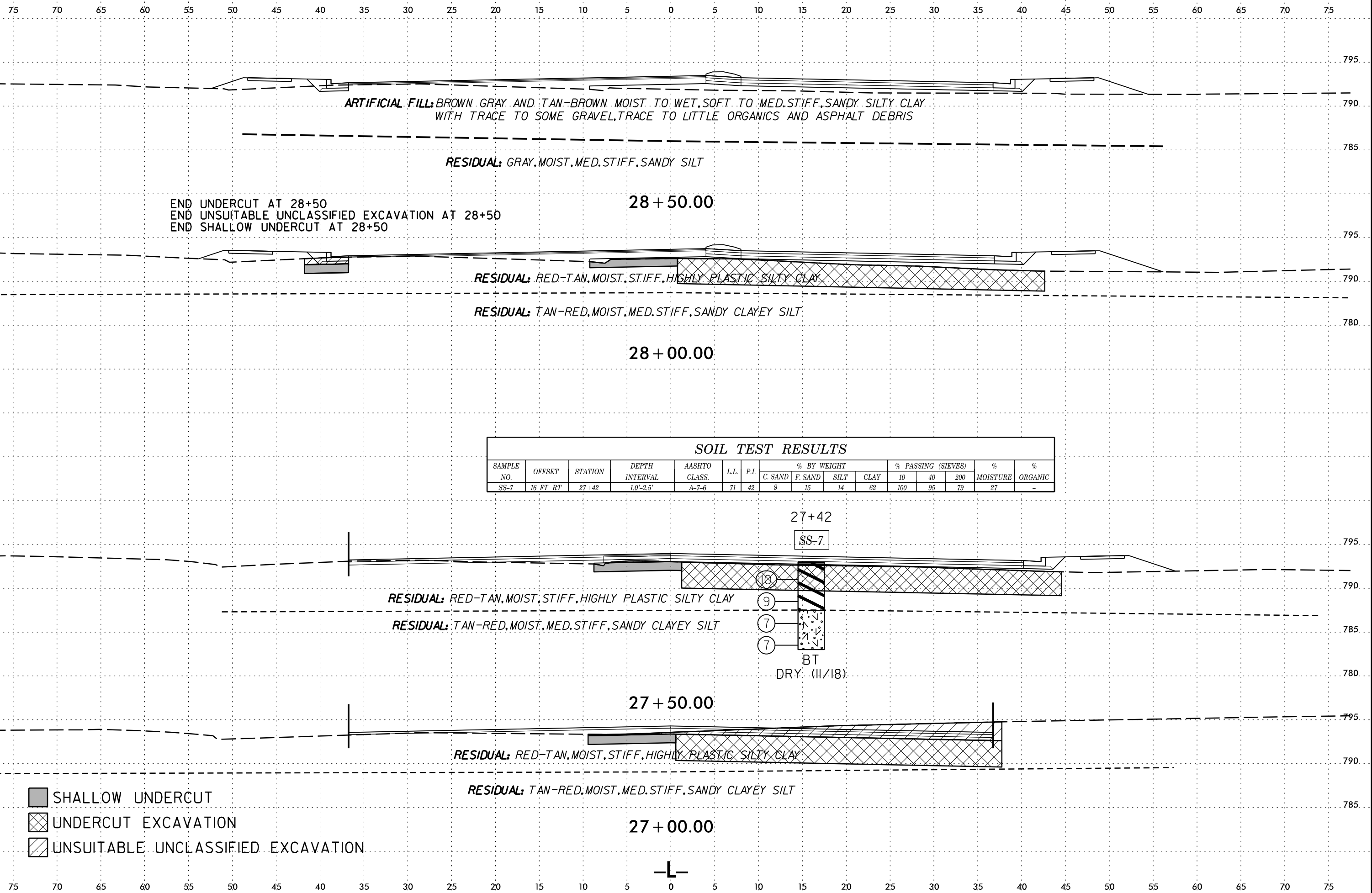
SEE SHEET 5 FOR PLAN VIEW

5/28/99
 12-DEC-2018 13:27:18 NCDOT GEU U-5757 NC 8 Widening in Lexington\U5757_GEO_RDWY\CADD_GEO\TECH\Plan\Prof\U-5757_GEO_pf104 - RECS.dgn
 12-DEC-2018 13:27:18 NCDOT GEU U-5757 NC 8 Widening in Lexington\U5757_GEO_RDWY\CADD_GEO\TECH\Plan\Prof\U-5757_GEO_pf104 - RECS.dgn






-  SHALLOW UNDERCUT
-  UNDERCUT EXCAVATION
-  UNSUITABLE UNCLASSIFIED EXCAVATION





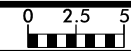
END UNDERCUT AT 28+50
 END UNSUITABLE UNCLASSIFIED EXCAVATION AT 28+50
 END SHALLOW UNDERCUT AT 28+50

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-7	16 FT RT	27+42	1.0'-2.5'	A-7-6	71	42	9	15	14	62	100	95	79	27	-

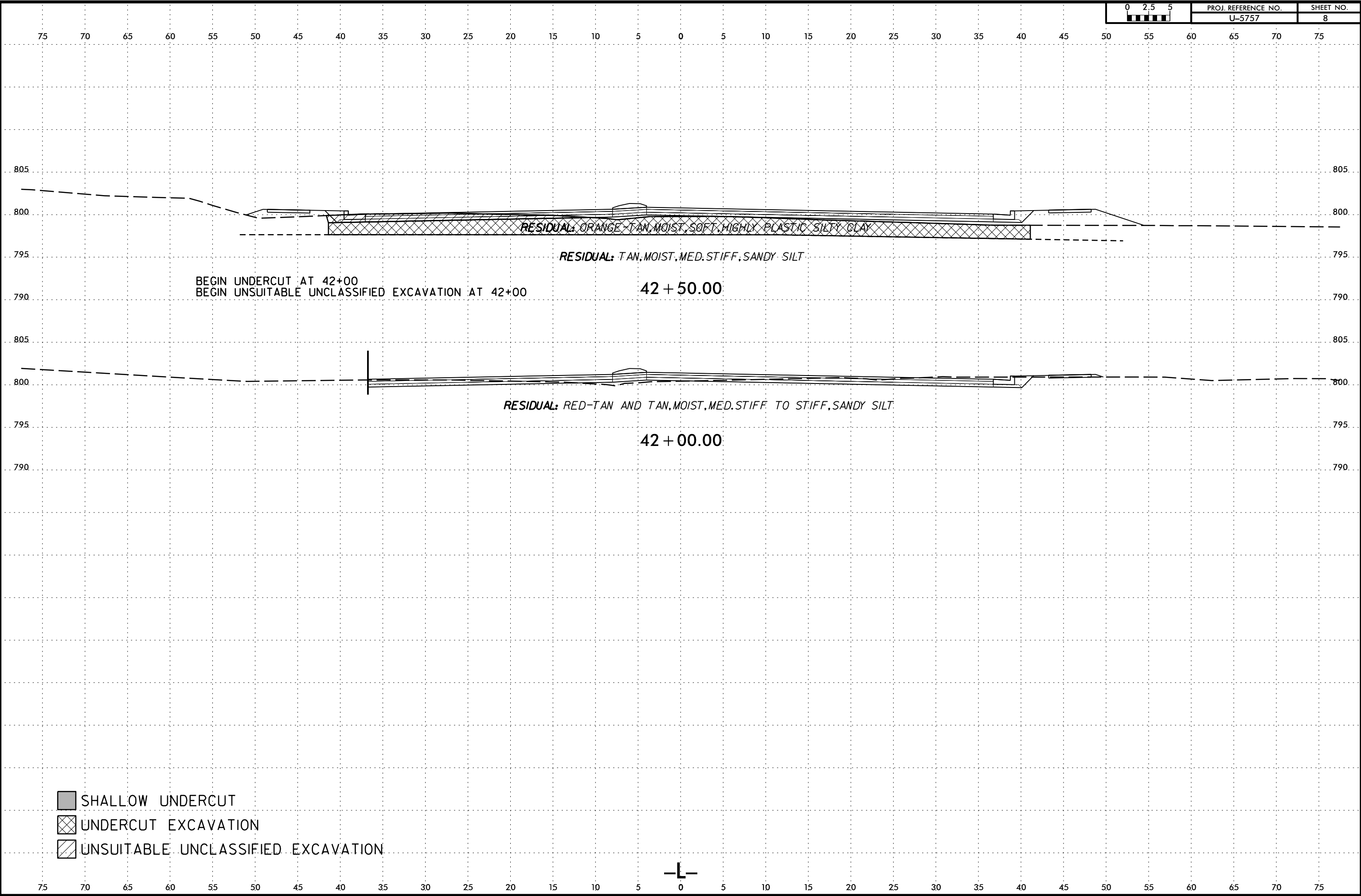
-  SHALLOW UNDERCUT
-  UNDERCUT EXCAVATION
-  UNSUITABLE UNCLASSIFIED EXCAVATION




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 6/23/16
 cadman

6/23/16
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caddmchne AT CAD01

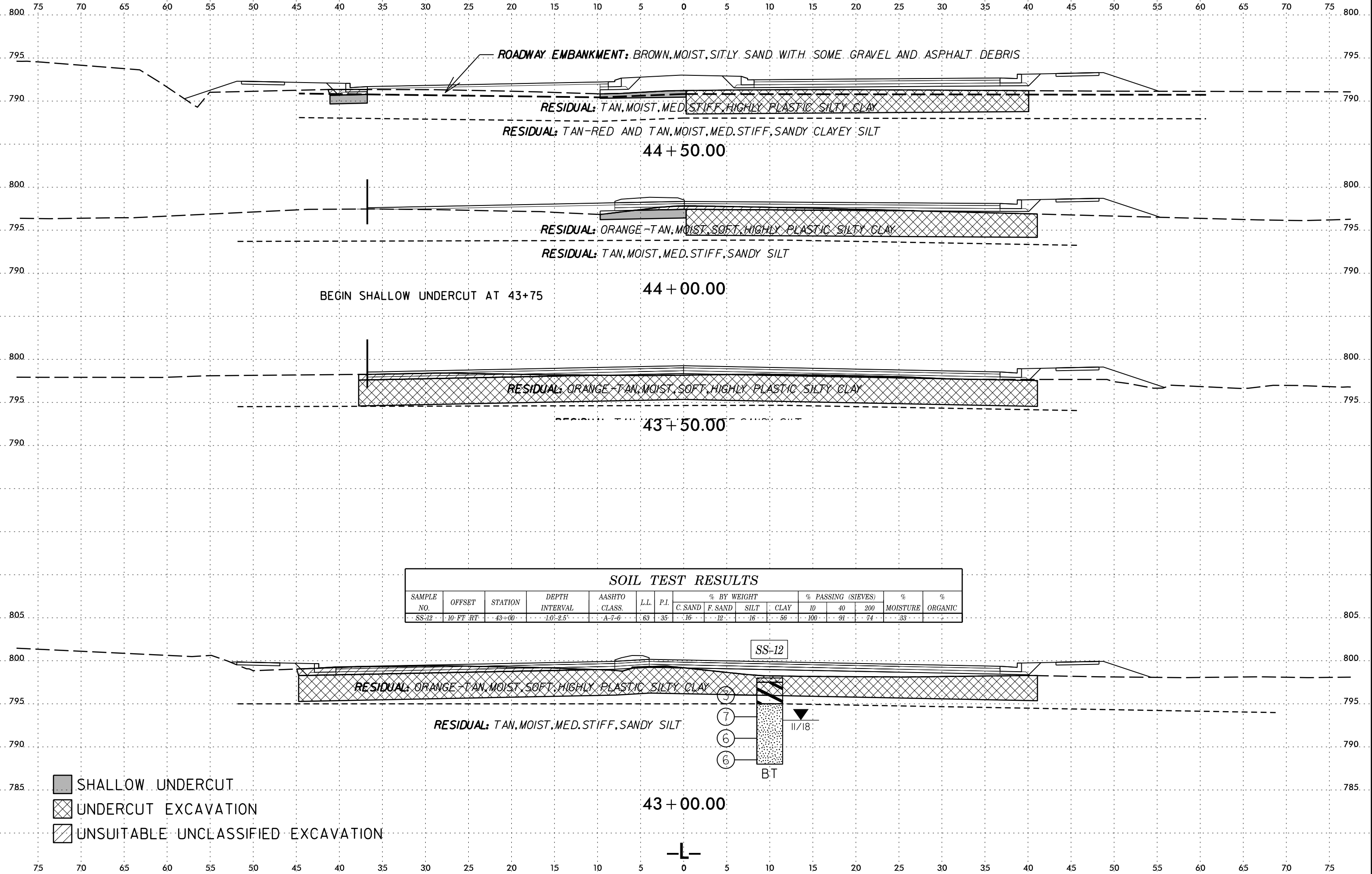


PROJ. REFERENCE NO.	SHEET NO.
U-5757	8



-  SHALLOW UNDERCUT
-  UNDERCUT EXCAVATION
-  UNSUITABLE UNCLASSIFIED EXCAVATION

I:\Projects\2018\08\07\00 NCDOT GEU U-5757 NC 8 Widening in Lexington\U5757_GEO_RDWY\CADD_GEO\U5757_GEO_XPR_L.dgn 6/23/16



ROADWAY EMBANKMENT: BROWN, MOIST, SILTY SAND WITH SOME GRAVEL AND ASPHALT DEBRIS

RESIDUAL: TAN, MOIST, MED STIFF, HIGHLY PLASTIC SILTY CLAY

RESIDUAL: TAN-RED AND TAN, MOIST, MED STIFF, SANDY CLAYEY SILT

44 + 50.00

RESIDUAL: ORANGE-TAN, MOIST, SOFT, HIGHLY PLASTIC SILTY CLAY

RESIDUAL: TAN, MOIST, MED STIFF, SANDY SILT

44 + 00.00

BEGIN SHALLOW UNDERCUT AT 43+75

RESIDUAL: ORANGE-TAN, MOIST, SOFT, HIGHLY PLASTIC SILTY CLAY

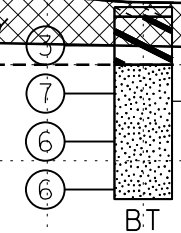
43 + 50.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-12	10 FT RT	43+00	10'-2.5'	A-7-6	63	35	16	12	16	56	100	91	74	33	

SS-12

RESIDUAL: ORANGE-TAN, MOIST, SOFT, HIGHLY PLASTIC SILTY CLAY

RESIDUAL: TAN, MOIST, MED STIFF, SANDY SILT



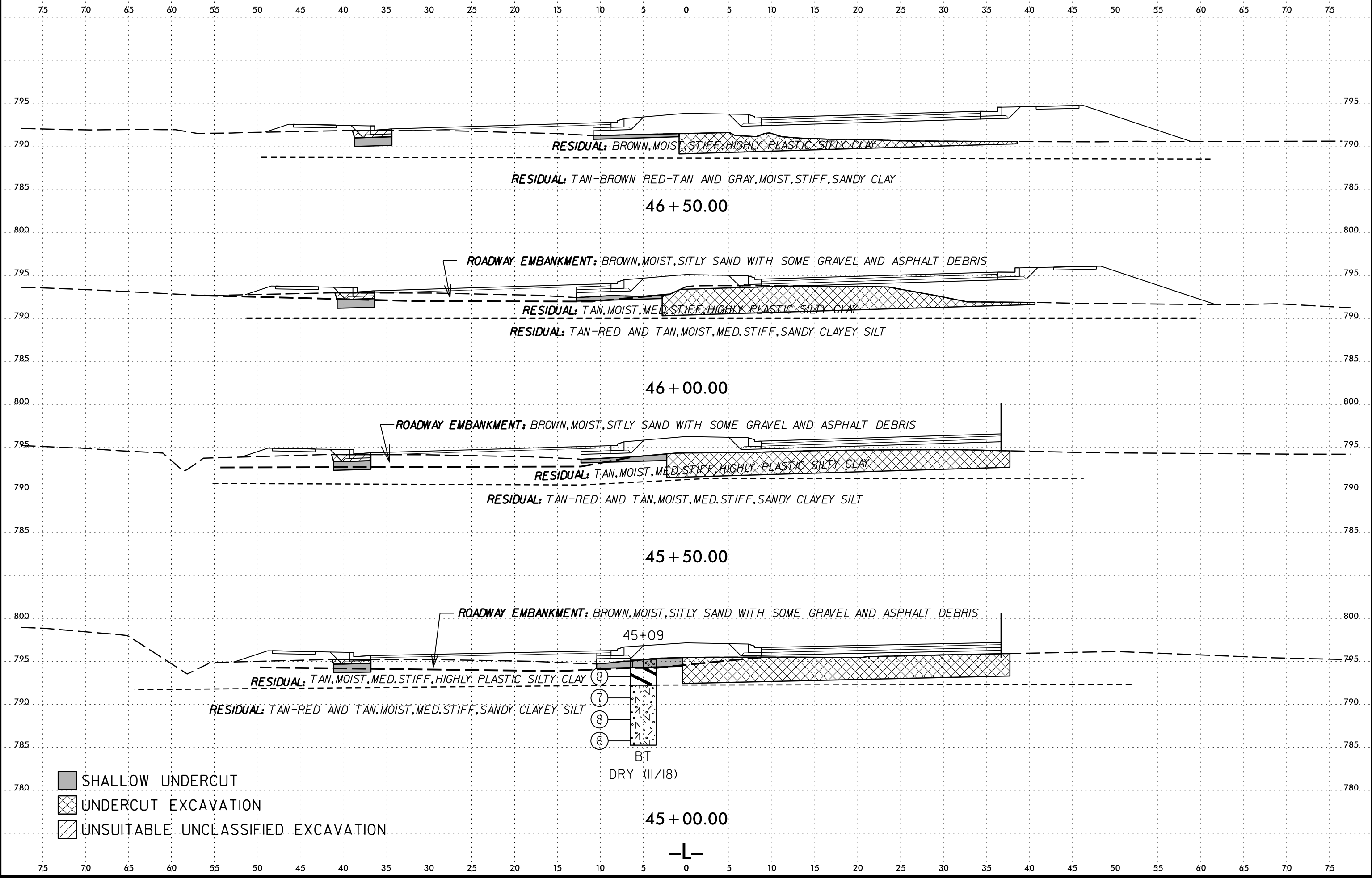
BT

43 + 00.00

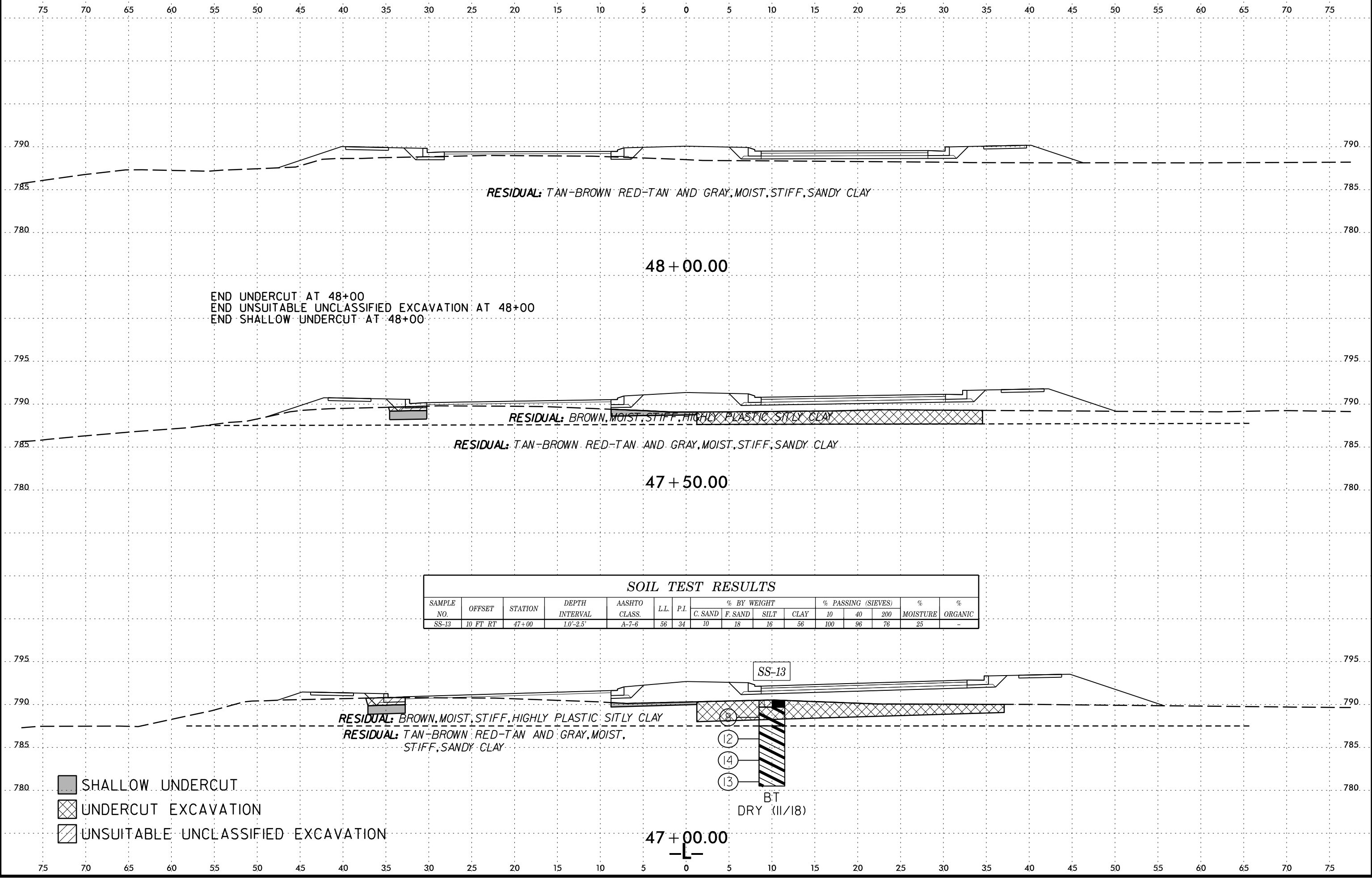
- SHALLOW UNDERCUT
- UNDERCUT EXCAVATION
- UNSUITABLE UNCLASSIFIED EXCAVATION



6/23/16
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geotechnical



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 6/23/16
 12-DEC-2016 14:15
 AT CAD01



END UNDERCUT AT 48+00
 END UNSUITABLE UNCLASSIFIED EXCAVATION AT 48+00
 END SHALLOW UNDERCUT AT 48+00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-13	10 FT RT	47+00	1.0'-2.5'	A-7-6	56	34	10	18	16	56	100	96	76	25	-

- SHALLOW UNDERCUT
- UNDERCUT EXCAVATION
- UNSUITABLE UNCLASSIFIED EXCAVATION

