REFERENCE: R-5808

PROJECT: 46972

SEE SHEET 3 FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

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CROSS SECTIONS

LINE	STATION	SHEET
-L-	18+00 TO 234+00	31-463

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

ROADWAY SUBSURFACE INVESTIGATION

COUNTY *GATES*

PROJECT DESCRIPTION *US 158 FROM THE INTERSECTION OF SR 1002 (ACORN HILL ROAD) AND US 158 TO THE PASQUOTANK COUNTY LINE*

INVENTORY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5808	1	463

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.

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 (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 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 OPINION 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 THE 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.

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

CATLIN PERSONNEL

INVESTIGATED BY *L. STONE PG*

DRAWN BY *L. STONE PG*

CHECKED BY *S. HUDSON PG*

SUBMITTED BY *L. STONE PG*

DATE *January 2023*

CATLIN
Engineers and Scientists
Washington, North Carolina

NORTH CAROLINA LICENSED SEAL 2007 GEOLOGIST JOSEPH L. STONE

DocuSigned by:
Joseph L. Stone
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SIGNATURE

2/15/2023
DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
R-5808	2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

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 206, 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,
VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5, A-7-6			
SYMBOL														
% PASSING #10	50 MX													
#40	30 MX	50 MX	51 MN											
#200	15 MX	25 MX	10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN	GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
MATERIAL PASSING #40														
LL	—		—	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
PI	6 MX		NP	10 MX	10 MX	11 MN	11 MN	10 MX	10 MX	11 MN	11 MN			
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	NO MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS				
GEN. RATING AS SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR				FAIR TO POOR	POOR	UNSUITABLE

PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH ($TONS/FT^2$)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE	< 4	
	LOOSE	4 TO 10	
	MEDIUM DENSE	10 TO 30	N/A
	DENSE	30 TO 50	
	VERY DENSE	> 50	
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT	< 2	< 0.25
	SOFT	2 TO 4	0.25 TO 0.5
	MEDIUM STIFF	4 TO 8	0.5 TO 1.0
	STIFF	8 TO 15	1 TO 2
	VERY STIFF	15 TO 30	2 TO 4
	HARD	> 30	> 4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	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.)

GRAIN SIZE	MM	305	75	2.0	0.25	0.05	0.005
	IN.	12	3				

SOIL MOISTURE - CORRELATION OF TERMS

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
LL — LIQUID LIMIT		
PLASTIC RANGE (PI)	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT		
OM — OPTIMUM MOISTURE	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
SL — SHRINKAGE LIMIT		
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NON PLASTIC	0-5	VERY LOW
SLIGHTLY PLASTIC	6-15	SLIGHT
MODERATELY PLASTIC	16-25	MEDIUM
HIGHLY PLASTIC	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

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

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

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

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS	OTHER MATERIAL	
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%	TRACE	1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE	10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME	20 - 35%
HIGHLY ORGANIC	> 10%	> 20%	HIGHLY	35% AND ABOVE

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
- STATIC WATER LEVEL AFTER 24 HOURS
- PW — PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA
- SPRING OR SEEP

MISCELLANEOUS SYMBOLS

- ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION
- SOIL SYMBOL
- ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT
- INFERRED SOIL BOUNDARY
- INFERRED ROCK LINE
- ALLUVIAL SOIL BOUNDARY
- 25/025 — DIP & DIP DIRECTION OF ROCK STRUCTURES
- SPT, DPT, DMT, VST PMT — TEST BORING
- AUGER BORING
- CORE BORING
- MW — MONITORING WELL
- PIEZOMETER INSTALLATION
- SLOPE INDICATOR INSTALLATION
- CONE PENETROMETER TEST
- SOUNDING ROD
- TEST BORING WITH CORE
- SPT N-VALUE

RECOMMENDATION SYMBOLS

- UNDERCUT
- SHALLOW UNDERCUT
- 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

ABBREVIATIONS

AR - AUGER REFUSAL
BT - BORING TERMINATED
CL. - CLAY
CPT - CONE 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
γ - UNIT WEIGHT
γ_d - DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS

S - BULK
SS - SPLIT SPOON
ST - SHELBY TUBE
RS - ROCK
RT - RECOMPACTED TRIAXIAL
CBR - CALIFORNIA BEARING RATIO

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- [ ] CME-45C
- [X] CME-55
- [ ] CME-550
- [ ] VANE SHEAR TEST
- [ ] PORTABLE HOIST
- [ ] _____
- [ ] _____

ADVANCING TOOLS:
- [ ] CLAY BITS
- [ ] 6" CONTINUOUS FLIGHT AUGER
- [ ] 8" HOLLOW AUGERS
- [ ] HARD FACED FINGER BITS
- [ ] TUNG.-CARBIDE INSERTS
- [X] CASING [ ] W/ ADVANCER
- [X] TRICONE 2 15/16 " STEEL TEETH
- [ ] TRICONE _____ " TUNG.-CARB.
- [ ] CORE BIT
- [ ] _____

HAMMER TYPE:
- [X] AUTOMATIC [ ] MANUAL

CORE SIZE:
- [ ] -B _____ [ ] -H _____
- [ ] -N _____

HAND TOOLS:
- [ ] POST HOLE DIGGER
- [X] HAND AUGER
- [ ] SOUNDING ROD
- [ ] VANE SHEAR TEST
- [X] SOIL PROBE

ROCK DESCRIPTION

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:

WEATHERED ROCK (WR)	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FOOT
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

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 DISLODGED 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 (RQD) - 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 (N 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 (SRQD) - 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.

BENCH MARK: r5808_QL2_lidar.tin

ELEVATION: _____ FEET

NOTES:

UNDIVIDED COASTAL PLAIN = UNDIVIDED C.P. = U.C.P.

NEM = NOT ENOUGH MATERIAL

BT = BORING TERMINATED

FIAD = FILLED IMMEDIATELY AFTER DRILLING

DATE: 8-15-14

09/08/56

TIP PROJECT: R-5808

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

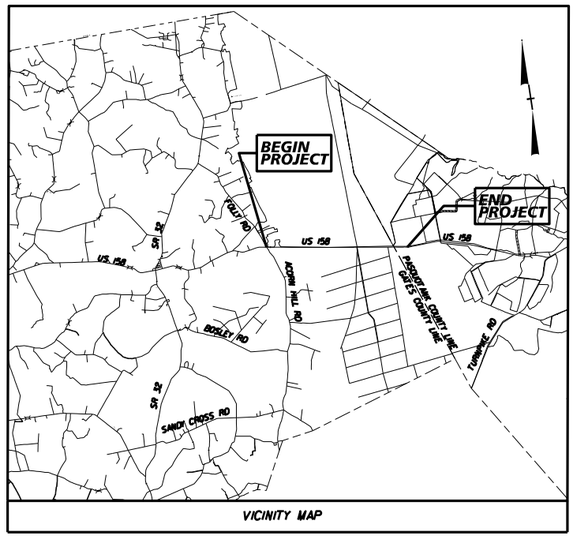
GATES COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5808	3	463

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
46972.1.1	NHP-0158(076)	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

65% PLANS



VICINITY MAP

LOCATION: *US 158 FROM THE INTERSECTION OF SR 1002 (ACORN HILL ROAD) AND US 158 TO THE PASQUOTANK COUNTY LINE*

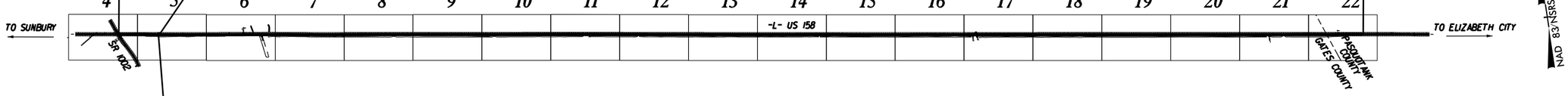
TYPE OF WORK: *GRADING, DRAINAGE, PAVING, WIDENING, AND CULVERT*

BEGIN TIP PROJECT R-5808
-L- STA 17+59.05

END BOX CULVERT
-L- STA 24+79.64

BEGIN BOX CULVERT
-L- STA 24+50.64

END TIP PROJECT R-5808
-L- STA 234+37.39



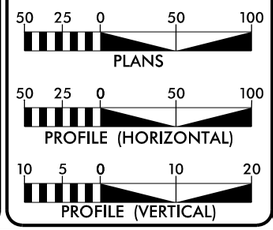
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SUBMITTAL:
DATE: June, 2022

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARY

GRAPHIC SCALES



DESIGN DATA

ADT 2023	=	4,300
ADT 2043	=	6,200
K	=	10%
D	=	55%
T	=	12%
V	=	60 MPH

CLASSIFICATION:
OTHER PRINCIPAL ARTERIAL
* 7% TTST 5% DUAL
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5808	=	4.101 MILES
LENGTH OF STRUCTURE TIP PROJECT R-5808	=	.005 MILES
TOTAL LENGTH TIP PROJECT R-5808	=	4.106 MILES

Prepared In the Office of:
Kimley»Horn © 2021
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NORTH CAROLINA 27601
PHONE: (919) 677-2000

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 23, 2022

LETTING DATE:
JULY 18, 2023

VINCENT RICCIO, PE
PROJECT ENGINEER

BRANDON GREGG, PE
PROJECT DESIGN ENGINEER

RYAN SHOOK
PROJECT MANAGER
NCDOT HIGHWAY DIVISION

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

SIGNATURE: *P.E.*

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION

$DATE$

WBS Number: 46972.1.1
TIP Number: R-5808
F.A .Project NHP-0158(076)
County: Gates
Description: US 158 from the Intersection of SR 1002 (Acorn Hill Rd.) and US 158 to the Pasquotank County Line

SUBJECT: Geotechnical Inventory Report

Project Description

This project begins near the existing intersection of US 158 and SR 1002 (Acorn Hill Rd.) in Gates County, NC and extends east along US 158 for approximately 4.1 miles. Proposed construction shifts the US 158 centerline approximately 7 feet to the south. This Geotechnical Investigation was confined to areas of proposed construction.

Fieldwork for this project was conducted in March of 2022. Standard Penetration Tests (SPT) borings, hand auger borings, and soil probes were completed along and at various offsets from the proposed project alignment. Representative soil samples have been collected for visual classification in the field and for laboratory analysis.

The following alignment was investigated. Subsurface profiles and selected cross sections of these alignments are included in this report.

Line	Station (±)
-L-	17+59 to 234+37

Areas of Special Geotechnical Interest

1) All but the following section of the project exhibits high groundwater (within 6 feet of the natural ground surface).

Line	Station (±)
-L-	28+00 to 44+00

2) The following sections contain organic soils that have the potential to cause embankment/subgrade and or slope stability problems during construction.

Line	Station (±)
-L-	24+50 to 27+96
-L-	44+65 to 234+37

3) The entire project was found to contain cohesive soils that have the potential to cause embankment/subgrade and or slope stability problems during construction.

Physiography and Geology

This project is located along the western edge of the Coastal Plain Physiographic Province. The topography along the project is nearly flat to very gently sloping, with ground elevations range from 19± to 43± feet above sea level.

Surficial soils in this area are generally classified as alluvial and undivided coastal plain sediments.

Ground Water

Ground water data was collected in March of 2023 and except for the one section noted above, was found to be within 6’ of natural ground throughout the project area.

Soils

This project area lies in the northeastern part of the North Carolina Coastal Plain Physiographic Province and is entirely underlain by Coastal Plain Soils. A summary of the major stratigraphic units identified follows.

- Roadway Embankment soils were identified beneath the existing US 158 roadway alignment and consists of 1± to 3± feet of loose silty sand (A-2-4) with 1± to 8± feet of very soft to very stiff clayey/sandy silt (A-4) and sandy clay (A-6) with thin intervals of soft organic soils ranging from soils with little organics to muck.

- Artificial fill consisting of 1± to 5± feet of medium stiff silty clay and sandy silt (A-6, A-4) with 2± feet of loose silty sand (A-2-4).

- Alluvial soils were found adjacent to a small creek that crosses the project corridor around -L- Sta. 24+50±. These soils are composed of 2± feet of soft to medium stiff silt with little organic matter.

- Undivided Coastal Plain (U.C.P) soil is found at the surface throughout the majority of the project area. These soils primarily consist of 9 or more feet of medium stiff sandy and silty clay (A-6, A-7-6), 5 or more feet of medium dense silty sand and silty sand with trace organics (A-2-4), 1± to 8± feet of very loose / very soft organic soils with little to moderate organic content and muck.

- The Yorktown Formation (Miocene/Pliocene) underlies the U.C.P. soil throughout the project area. It is primarily composed of 1 or more feet of loose to medium dense gray sand (A-2-4), with 4 or more feet of soft to stiff gray green sandy silt and sandy clay (A-4, A-6).

Culvert at -L- Sta. 24+65±

Natural ground elevations range from 18± feet along the bed of the creek to 26± feet along the adjacent US 158 embankment. Borings completed in the vicinity show approximately 5± feet roadway embankment composed of medium stiff sandy silt and sandy clay (A-4, A-6), underlain by 2± feet of soft to medium stiff silty clay with little organics, 7± feet of medium stiff sandy silt, and 5± feet of medium dense silty sand (A-2-4).

5/14/99

REVISIONS

-L-

PI Sta 16+15.38
△ = 0° 04' 44.4" (LT)
D = 0° 04' 45.0"
L = 99.80'
T = 49.90'
R = 72,370.32'

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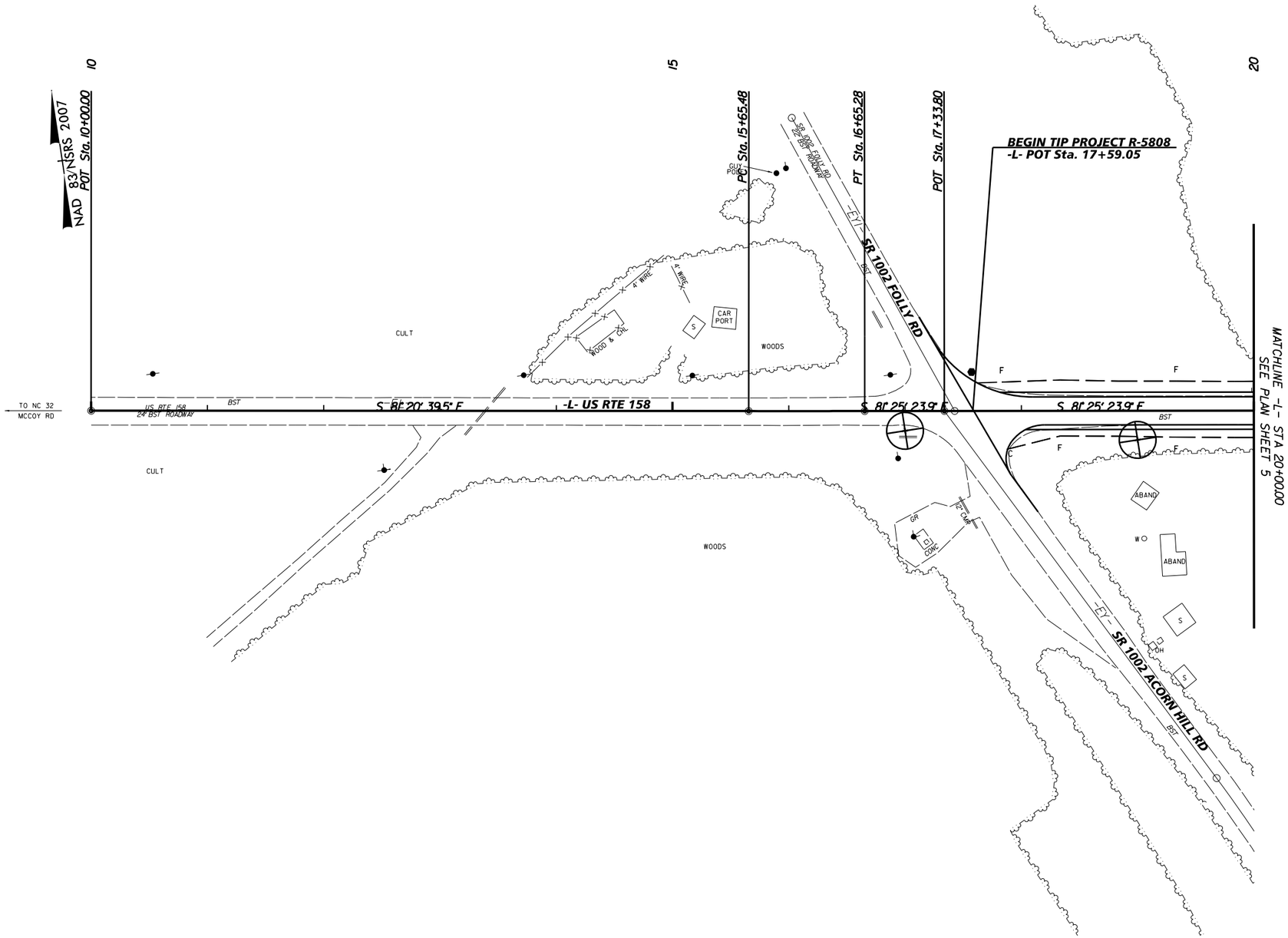
VIRGINIA BEACH, VA 23462

CATLIN
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.	SHEET NO.
R-5808	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



$DATE$

INCOMPLETE PLANS
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5/14/99

REVISIONS

-L-

PI Sta 21+61.22
Δ = 1° 34' 37.8" (RT)
D = 0° 29' 53.6"
L = 316.56'
T = 158.29'
R = 11,500.00'

PI Sta 24+74.63
Δ = 1° 32' 44.9" (LT)
D = 0° 29' 53.6"
L = 310.26'
T = 155.14'
R = 11,500.00'

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

20 25 30

NAD 83/NSRS 2007

PT Sta. 26+29.75

APPROXIMATE LIMIT OF ORGANIC SOILS

WOODS

-L1 US RTE 158

MATCHLINE -L- STA 20+00.00
SEE PLAN SHEET 4

MATCHLINE -L- STA 33+00.00
SEE PLAN SHEET 6

PC Sta. 20+02.93

PRC Sta. 23+19.49

$DATE$

INCOMPLETE PLANS
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REVISIONS

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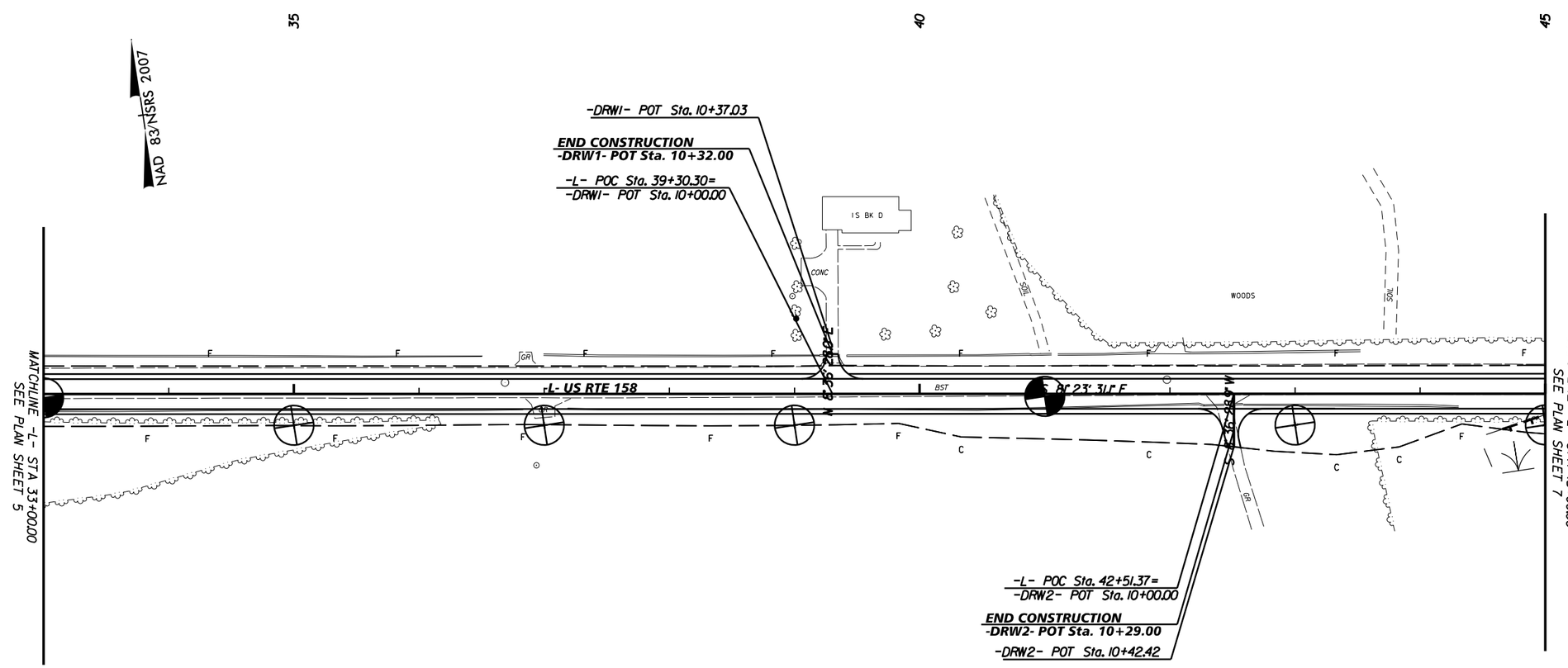
PROJECT REFERENCE NO.	SHEET NO.
R-5808	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET NO. 23 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

$DATE$

5/14/99

REVISIONS

-L-

PI Sta 56+83.31
Δ = 0° 25' 44.9" (LT)
D = 0° 25' 27.9"
L = 101.11'
T = 50.56'
R = 13,500.00'

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

45 50 55

NAD 83/NSRS 2007

PC Sta. 56+32.75

WOODS

APPROXIMATE LIMIT OF ORGANIC SOILS

MATCHLINE -L- STA 45+00.00
SEE PLAN SHEET 6

BST

-L- US RTE 158

WLB

WLB

BST

WOODS

MATCHLINE -L- STA 57+00.00
SEE PLAN SHEET 8

$DATE$

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

-L-

PI Sta 56+83.31
Δ = 0° 25' 44.9" (LT)
D = 0° 25' 27.9"
L = 101.11'
T = 50.56'
R = 13,500.00'

PI Sta 59+83.31
Δ = 0° 26' 17.4" (RT)
D = 0° 25' 27.9"
L = 103.24'
T = 51.62'
R = 13,500.00'

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

60

65

PT Sta. 57+33.86

NAD 83/NSRS 2007

PI Sta 56+83.31
Δ = 0° 25' 44.9" (LT)
D = 0° 25' 27.9"
L = 101.11'
T = 50.56'
R = 13,500.00'

PI Sta 59+83.31
Δ = 0° 26' 17.4" (RT)
D = 0° 25' 27.9"
L = 103.24'
T = 51.62'
R = 13,500.00'

4.5%

MATCHLINE -L- STA 57+00.00
SEE PLAN SHEET 7

S 81° 49' 16.07" E

-L- US RTE 158

637

MATCHLINE -L- STA 69+00.00
SEE PLAN SHEET 9

EB

WB

PC Sta. 59+31.69

PT Sta. 60+34.93

SEE SHEET NO. 24 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

$DATE$

5/14/99

REVISIONS

NAD 83/NSRS 2007

70 75 80

MATCHLINE -L- STA 69+00.00
SEE PLAN SHEET 8

WOODS

S 80°22'58"E

PCT

US RTE 158

WLB

WLB

WOODS

MATCHLINE -L- STA 81+00.00
SEE PLAN SHEET 10

$DATE$

SEE SHEET NO. 24 AND 25 FOR -L- PROFILE

INCOMPLETE PLANS
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PROJECT REFERENCE NO.	SHEET NO.
R-5808	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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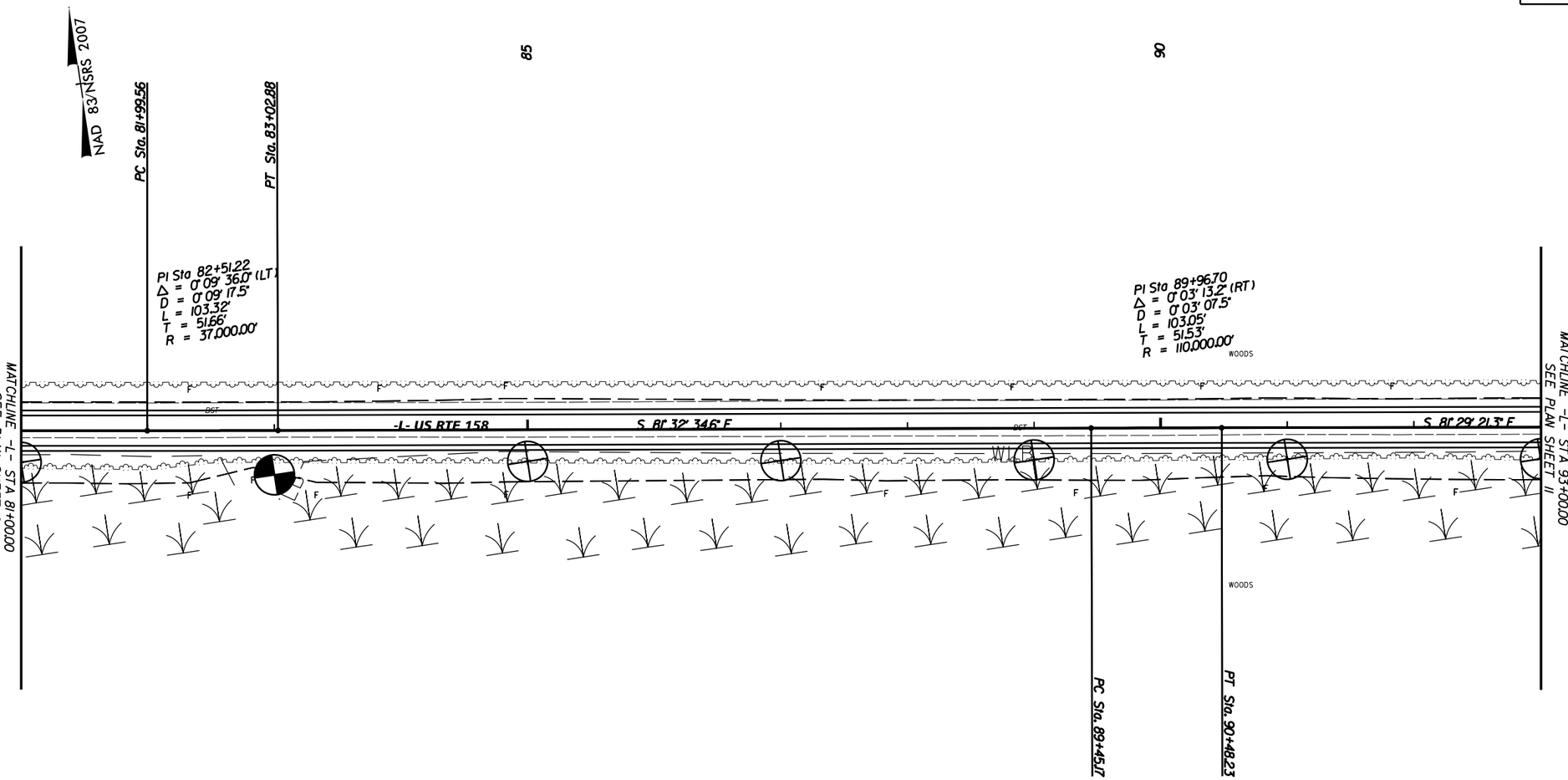
5/14/99

REVISIONS

-L-

PI Sta 82+51.22
Δ = 0° 09' 36.0" (LT)
D = 0° 09' 17.5"
L = 103.32'
T = 51.66'
R = 37,000.00'

PI Sta 89+96.70
Δ = 0° 03' 13.2" (RT)
D = 0° 03' 07.5"
L = 103.05'
T = 51.53'
R = 110,000.00'



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PROJECT REFERENCE NO.	SHEET NO.
R-5808	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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$DATE$

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

-L-

PI Sta 94+91.90
Δ = 0° 07' 12.6" (RT)
D = 0° 06' 52.5"
L = 104.87'
T = 52.44'
R = 50,000.00'

PI Sta 103+03.52
Δ = 0° 08' 23.7" (RT)
D = 0° 07' 59.7"
L = 105.00'
T = 52.50'
R = 43,000.00'

NAD 83/NSRS 2007

95 100 105

PI Sta 94+91.90
Δ = 0° 07' 12.6" (RT)
D = 0° 06' 52.5"
L = 104.87'
T = 52.44'
R = 50,000.00'

PI Sta 103+03.52
Δ = 0° 08' 23.7" (RT)
D = 0° 07' 59.7"
L = 105.00'
T = 52.50'
R = 43,000.00'

MATCHLINE -L- STA 93+00.00
SEE PLAN SHEET 10

MATCHLINE -L- STA 105+00.00
SEE PLAN SHEET 12

-L- US RTE 158

S 81° 22' 08.7" E

WLB

WLB

ABAND

PC Sta. 94+39.46

PT Sta. 95+44.33

PC Sta. 102+51.02

PT Sta. 103+56.02

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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SEE SHEET NO. 25 AND 26 FOR -L- PROFILE

INCOMPLETE PLANS
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$DATE$

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5808	12

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

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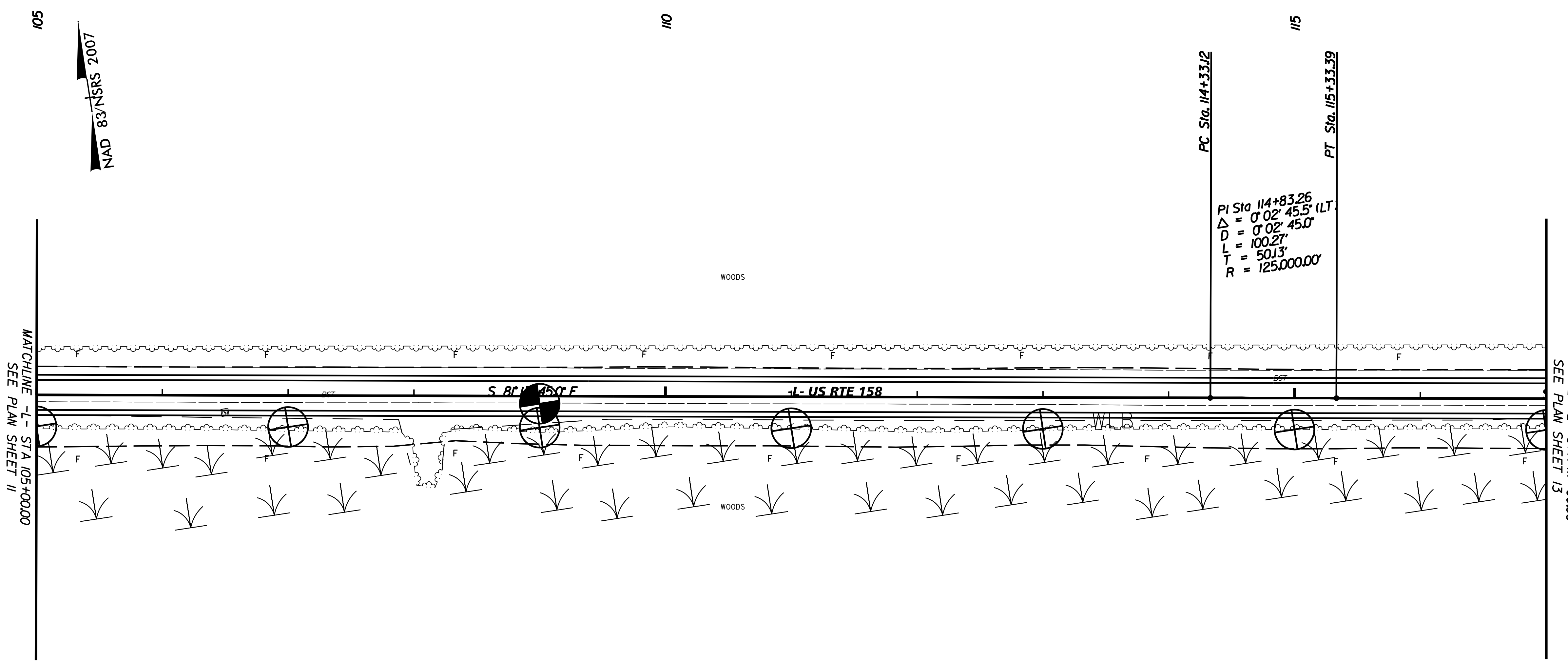
-L-

PI Sta 114+83.26
Δ = 0° 02' 45.5" (LT)
D = 0° 02' 45.0"
L = 100.27'
T = 50.13'
R = 125,000.00'



$DATE$

SEE SHEET NO. 26 FOR -L- PROFILE

INCOMPLETE PLANS
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5/14/99

REVISIONS

-L-

PI Sta 119+83.31
△ = 0° 07' 00.6" (LT)
D = 0° 06' 52.5"
L = 101.95'
T = 50.97'
R = 50,000.00'

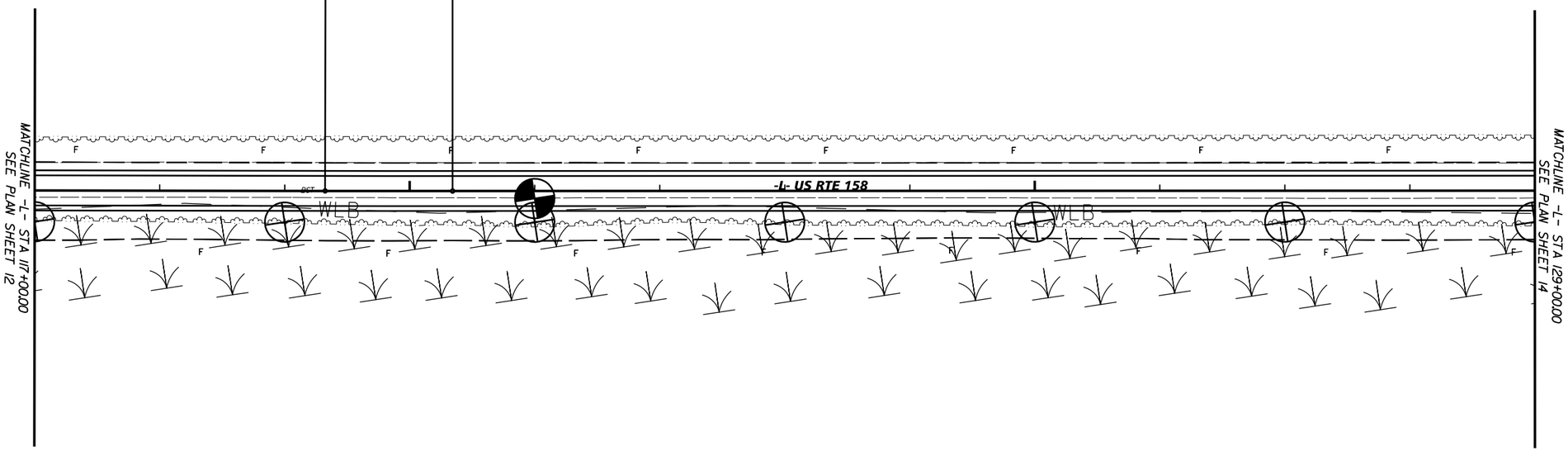
NAD 83/NSRS 2007

120

125

PC Sta. 119+32.33

PT Sta. 120+34.28



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PROJECT REFERENCE NO.	SHEET NO.
R-5808	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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SEE SHEET NO. 26 AND 27 FOR -L- PROFILE

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5/14/22

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/NSRS 2007

130 135 140

WOODS

MATCHLINE -L- STA 129+00.00
SEE PLAN SHEET 13

-L- US RTE 158

BST

WOODS

MATCHLINE -L- STA 141+00.00
SEE PLAN SHEET 15

SEE SHEET NO. 27 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

$DATE$

5/14/99

REVISIONS

NAD 83/NSRS 2007

145

150

WOODS

F

-L- US RTE 158

WLB

MATCHLINE -L- STA 141+00.00
SEE PLAN SHEET 14

MATCHLINE -L- STA 153+00.00
SEE PLAN SHEET 16

SEE SHEET NO. 27 FOR -L- PROFILE

$DATE$

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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UNLESS ALL SIGNATURES COMPLETED

INCOMPLETE PLANS
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REVISIONS

NAD 83/NSRS 2007

155

160

165

WOODS

MATCHLINE -L- STA 153+00.00
SEE PLAN SHEET 15

-L- US RTE 158

MATCHLINE -L- STA 165+00.00
SEE PLAN SHEET 17

WOODS

SEE SHEET NO. 27 AND 28 FOR -L- PROFILE

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$DATE$

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5808	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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165 170 175

NAD 83/NSRS 2007

-DRW4- POT Sta. 10+42.87

END CONSTRUCTION
-DRW4- POT Sta. 10+25.00

-L- POC Sta. 166+91.63=
-DRW4- POT Sta. 10+00.00

WOODS

MATCHLINE -L- STA 165+00.00
SEE PLAN SHEET 16

-L1 US RTE 158

S 81° 23' 31" E

MATCHLINE -L- STA 177+00.00
SEE PLAN SHEET 18

-L- POC Sta. 167+16.22=
-DRW5- POT Sta. 10+00.00

END CONSTRUCTION
-DRW5- POT Sta. 10+95.00

-DRW5- POT Sta. 11+00.11

-L- POC Sta. 116+36.91=
-DRW3- POT Sta. 10+00.00

END CONSTRUCTION
-DRW3- POT Sta. 11+00.28

-DRW3- POT Sta. 11+10.00

WOODS

SEE SHEET NO. 28 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

$DATE$

5/14/99

REVISIONS

NAD 83/NSRS 2007

180

185

WOODS

JS NONMIT

JS NONMIT

-L- US RTE 158

WLB

WLB

WOODS

MATCHLINE -L- STA 177+00.00
SEE PLAN SHEET 17

MATCHLINE -L- STA 189+00.00
SEE PLAN SHEET 19

SEE SHEET NO. 28 AND 29 FOR -L- PROFILE

INCOMPLETE PLANS
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$DATE$

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/NSRS 2007

190 195 200

WOODS

JS NONMIT

-L- US RTE 158

MATCHLINE -L- STA 189+00.00
SEE PLAN SHEET 18

MATCHLINE -L- STA 201+00.00
SEE PLAN SHEET 20

WOODS

$DATE$

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

NAD 83/NSRS 2007

205

210

MATCHLINE -L- STA 201+00.00
SEE PLAN SHEET 19

-L- US RTE 158

MATCHLINE -L- STA 213+00.00
SEE PLAN SHEET 21

SEE SHEET NO. 29 AND 30 FOR -L- PROFILE

$DATE$

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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INCOMPLETE PLANS
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5/14/99

REVISIONS

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4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

CATLIN
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.	SHEET NO.
R-5808	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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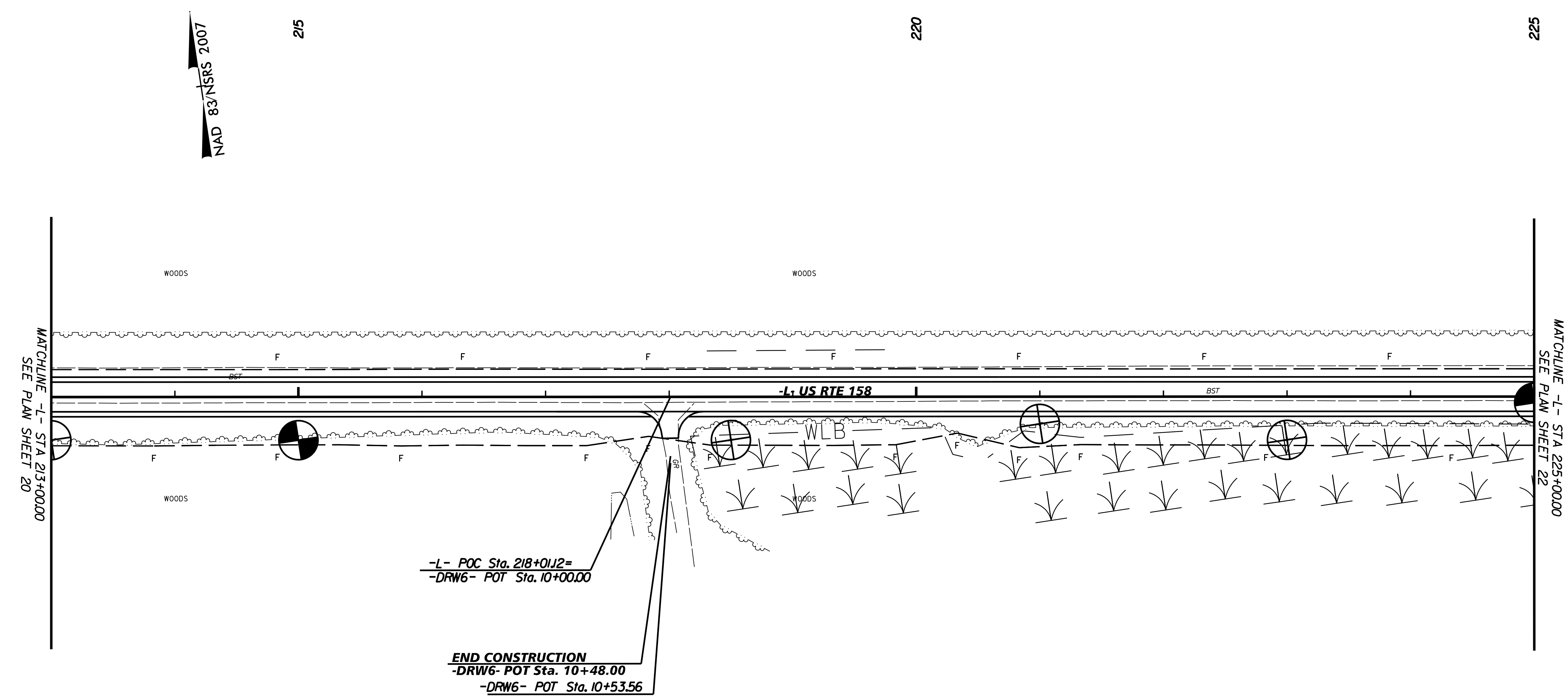

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PROJECT REFERENCE NO.	SHEET NO.
R-5808	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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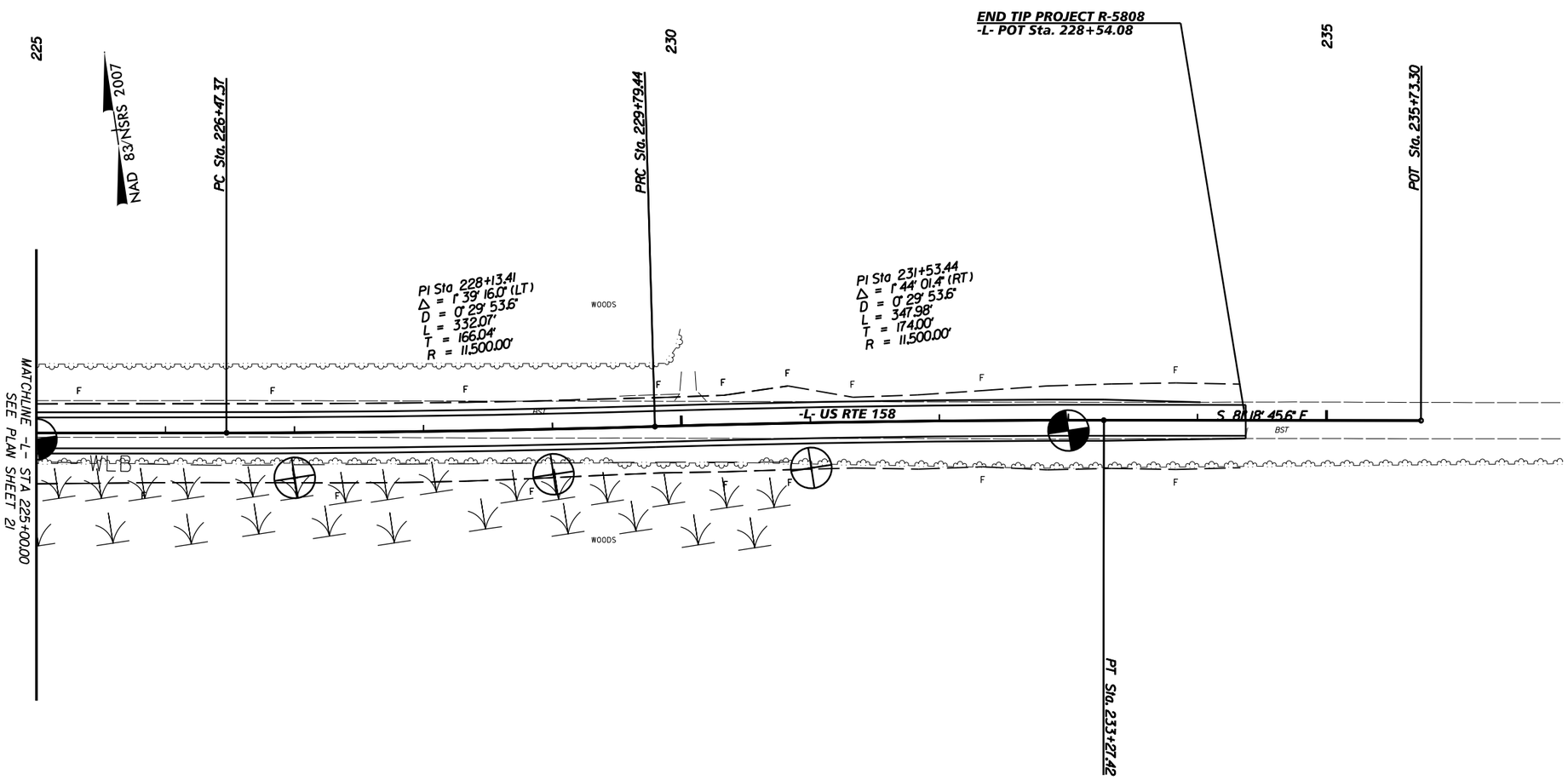
5/14/99

REVISIONS

$DATE$



SEE SHEET NO. 30 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

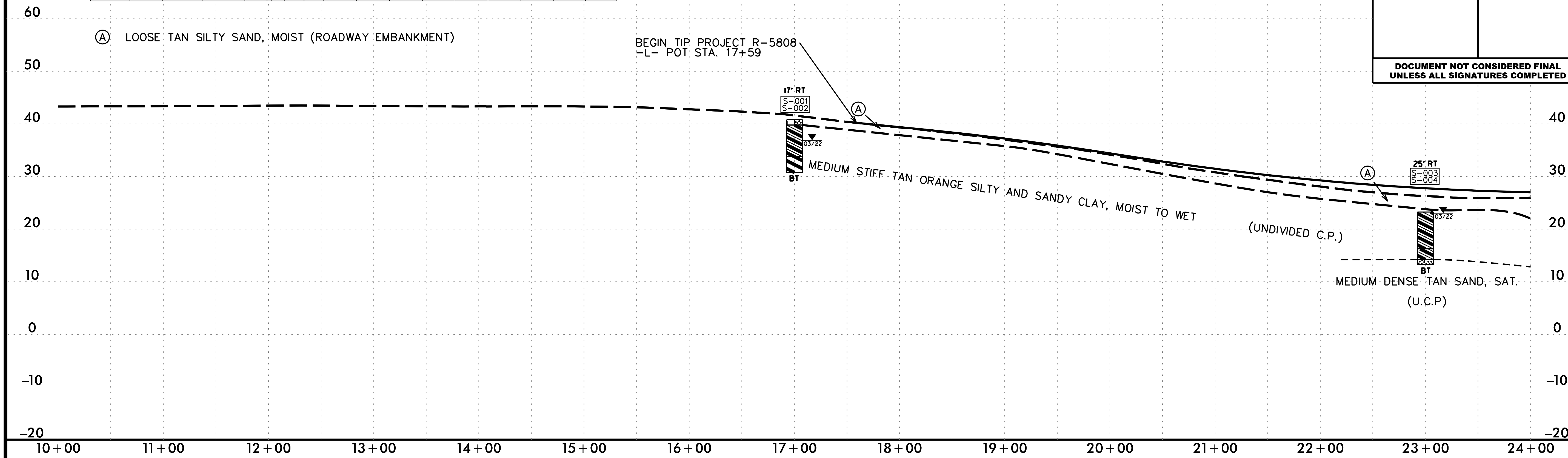
PROJECT REFERENCE NO.	SHEET NO.
R-5808	23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

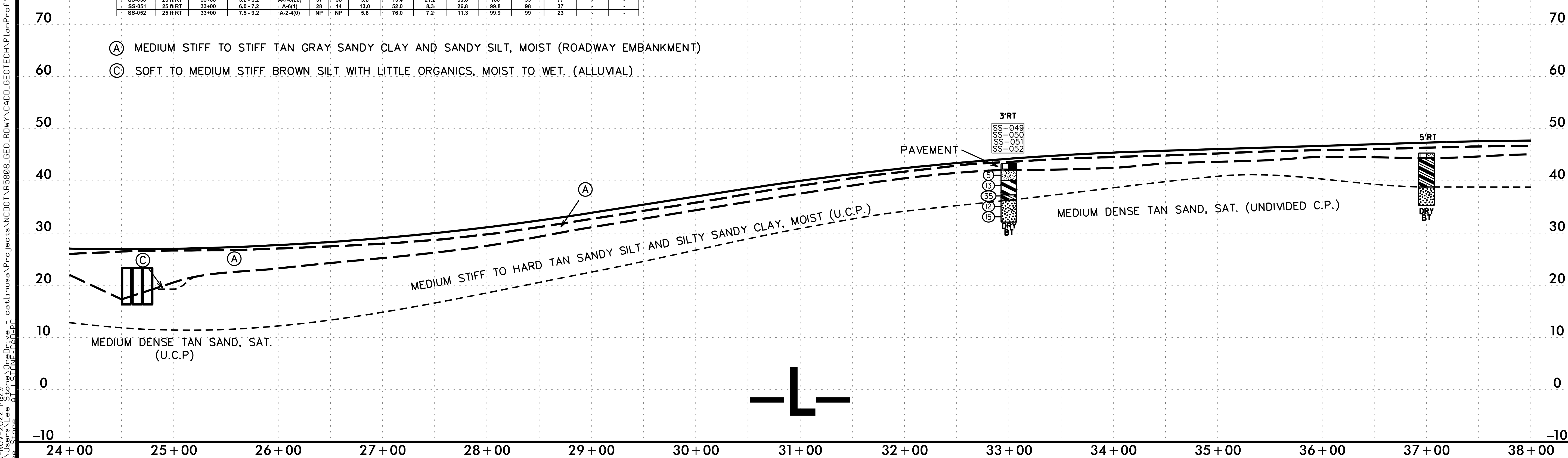
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-001	25 ft RT	17+00	1.0 - 7.0	A-6(11)	31	15	4.7	16.5	40.4	38.4	99.8	99	82	22	-
S-002	25 ft RT	17+00	7.0 - 10.0	A-7-6(15)	44	26	0.4	40.2	17.9	41.5	100	100	65	-	-
S-003	25 ft RT	23+00	0.0 - 7.0	A-6(18)	40	18	1.5	9.8	42.9	45.9	99.7	99	92	41	-
S-004	25 ft RT	23+00	7.0 - 9.0	A-6(9)	30	15	2.3	30.2	30.1	37.4	99.9	100	73	-	-



SOIL TEST RESULTS

SAMPLE NUMBER	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-049	25 ft RT	33+00	1.2 - 3.2	A-4(1)	22	9	26.3	29.7	21.9	22.1	97.6	94	45	-	-
SS-050	25 ft RT	33+00	3.2 - 5.2	A-7-6(28)	57	36	9.6	15.4	21.2	53.8	100	99	77	-	-
SS-051	25 ft RT	33+00	6.0 - 7.2	A-6(1)	28	14	13.0	52.0	8.3	26.8	99.8	98	37	-	-
SS-052	25 ft RT	33+00	7.5 - 9.2	A-2-4(0)	NP	NP	5.6	76.0	7.2	11.3	99.9	99	23	-	-



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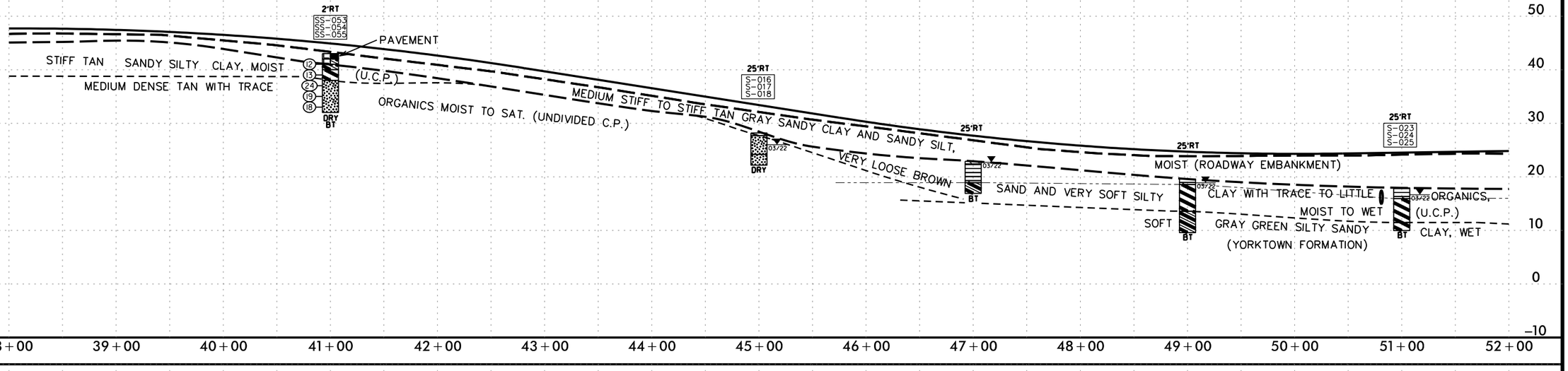
PROJECT REFERENCE NO.	SHEET NO.
R-5808	24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

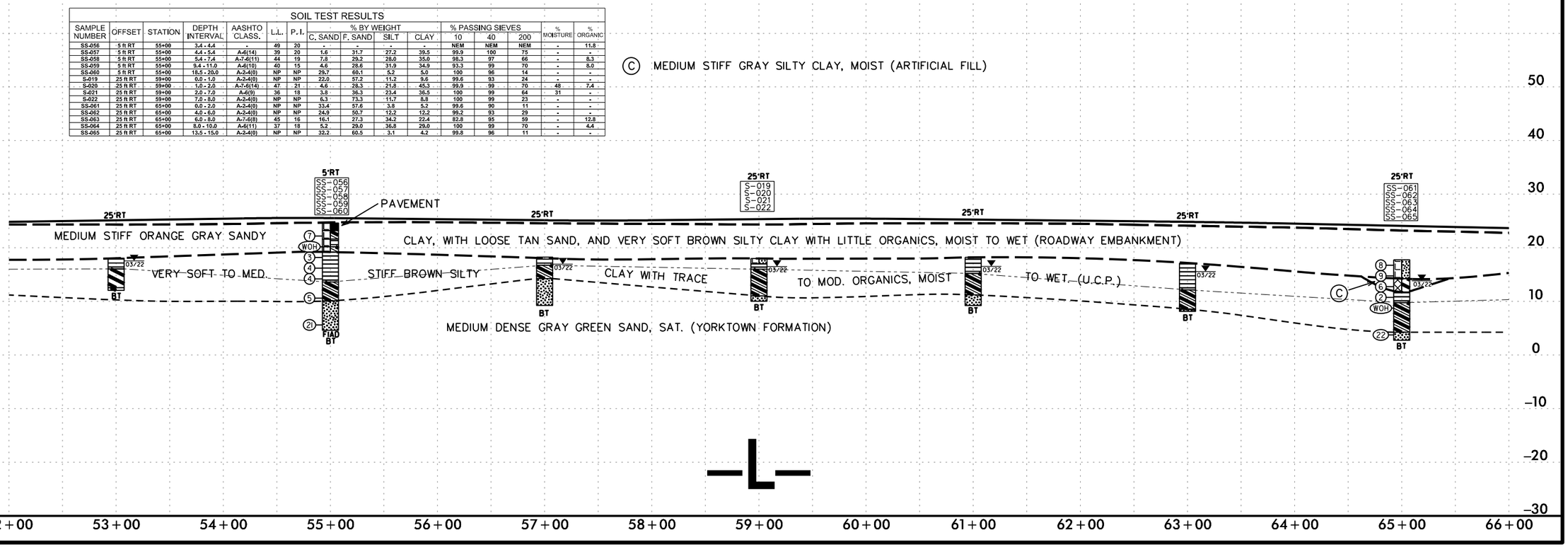
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-053	2 ft RT	41+00	1.5 - 3.0	A-6(9)	37	21	20.9	23.7	14.8	40.5	99.1	97	56	-	-
SS-054	2 ft RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	20.7	28.7	45.3	99.8	99	80	-	-
SS-055	2 ft RT	41+00	5.0 - 7.0	A-2-4(0)	25	6	4.4	67.7	5.6	22.3	100	99	32	-	-
S-016	25 ft RT	45+00	0.0 - 0.5	A-2-4(0)	NP	NP	18.6	52.5	25.2	3.7	99.1	97	32	73	6.7
S-017	25 ft RT	45+00	0.5 - 4.0	A-2-4(0)	NP	NP	25.8	56.5	8.0	9.8	99.9	94	19	-	1.7
S-018	25 ft RT	45+00	4.0 - 4.5	A-2-4(0)	NP	NP	29.2	54.8	6.7	9.4	100	93	18	-	-
S-023	25 ft RT	51+00	0.0 - 2.0	A-7-6(20)	49	21	2.8	12.5	40.9	43.8	99.9	99	86	52	9.0
S-024	25 ft RT	51+00	2.0 - 6.5	A-7-6(32)	55	31	1.3	6.6	26.1	66.0	99.9	100	93	43	-
S-025	25 ft RT	51+00	6.5 - 8.0	A-7-6(24)	45	26	0.9	17.3	31.1	50.7	99.9	100	89	-	-



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-056	5 ft RT	55+00	3.4 - 4.4	-	49	20	-	-	-	-	NEM	NEM	NEM	-	11.8
SS-057	5 ft RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	39.5	99.9	100	75	-	-
SS-058	5 ft RT	55+00	5.4 - 7.4	A-7-6(11)	44	19	7.8	29.2	28.0	35.0	98.3	97	66	-	8.3
SS-059	5 ft RT	55+00	9.4 - 11.0	A-6(10)	40	15	4.6	28.6	31.9	34.9	93.3	99	70	-	8.0
SS-060	5 ft RT	55+00	18.5 - 20.0	A-2-4(0)	NP	NP	29.7	60.1	5.2	5.0	100	96	14	-	-
S-019	25 ft RT	59+00	0.0 - 1.0	A-2-4(0)	NP	NP	22.0	57.2	11.2	9.6	99.6	93	24	-	-
S-020	25 ft RT	59+00	1.0 - 2.0	A-7-6(14)	47	21	4.6	28.3	21.8	45.3	99.9	99	70	48	7.4
S-021	25 ft RT	59+00	2.0 - 7.0	A-6(9)	36	18	3.8	36.3	23.4	36.5	100	99	64	31	-
S-022	25 ft RT	59+00	7.0 - 8.0	A-2-4(0)	NP	NP	6.3	73.3	11.7	8.8	100	99	23	-	-
SS-061	25 ft RT	65+00	0.0 - 2.0	A-2-4(0)	NP	NP	33.4	57.6	3.8	5.2	99.6	90	11	-	-
SS-062	25 ft RT	65+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.9	50.7	12.2	12.2	99.2	93	29	-	-
SS-063	25 ft RT	65+00	6.0 - 8.0	A-7-6(8)	45	16	16.1	27.3	34.2	22.4	82.8	95	59	-	12.8
SS-064	25 ft RT	65+00	8.0 - 10.0	A-6(11)	37	18	5.2	29.0	36.8	29.0	100	99	70	-	4.4
SS-065	25 ft RT	65+00	13.5 - 15.0	A-2-4(0)	NP	NP	32.2	60.5	3.1	4.2	99.8	96	11	-	-



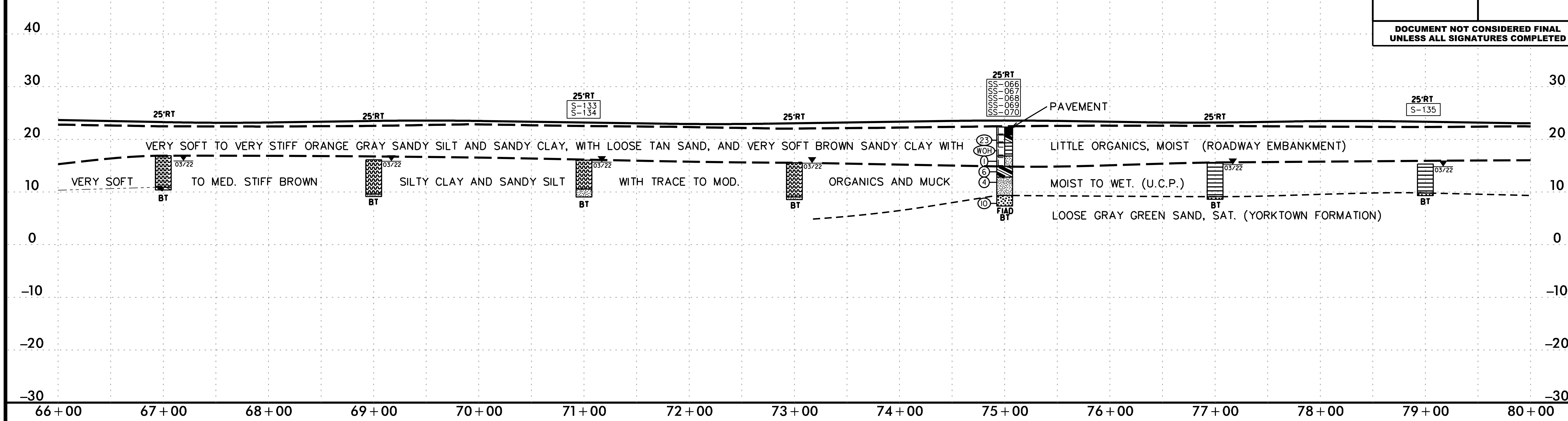
PROJECT REFERENCE NO.	SHEET NO.
R-5808	25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

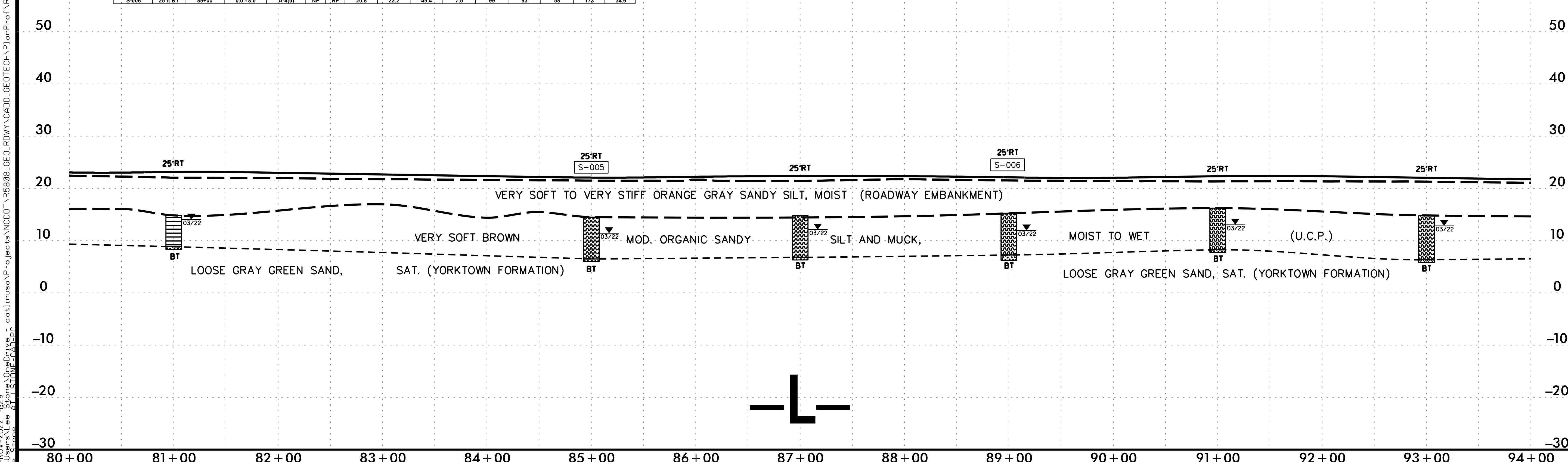
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-133	25 ft RT	71+00	0.0 - 5.5	A-2-4(0)	NP	NP	21.7	46.3	26.3	5.7	63.9	95	34	123	14.8
S-134	25 ft RT	71+00	5.5 - 7.0	A-4(0)	22	7	13.0	48.5	19.1	19.4	99.4	98	43	-	-
SS-066	25 ft RT	75+00	3.5 - 5.5	()	NEM	-	25.1	48.7	9.7	16.5	98.4	92	28	-	8.2
SS-067	25 ft RT	75+00	5.5 - 7.5	A-4(1)	24	9	10.3	50.1	20.9	18.7	99.9	98	43	-	3.6
SS-068	25 ft RT	75+00	7.5 - 9.5	A-6(2)	29	12	11.7	48.3	16.5	23.5	94.9	98	43	-	4.8
SS-069	25 ft RT	75+00	9.5 - 11.5	A-4(0)	25	7	13.1	49.6	14.7	22.6	99.7	97	41	-	4.5
SS-070	25 ft RT	75+00	13.5 - 15.0	A-2-4(0)	NP	NP	10.6	61.1	19.1	9.2	99.6	98	33	-	-
S-135	25 ft RT	79+00	0.0 - 5.5	A-4(0)	NP	NP	17.6	44.2	36.5	1.7	64.2	95	40	128	11.1



SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-005	25 ft RT	85+00	0.0 - 8.0	A-4(0)	NP	NP	8.9	14.8	65.6	10.7	100	95	77	391	29.3
S-006	25 ft RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	20.8	22.2	49.4	7.5	99	93	58	173	34.6



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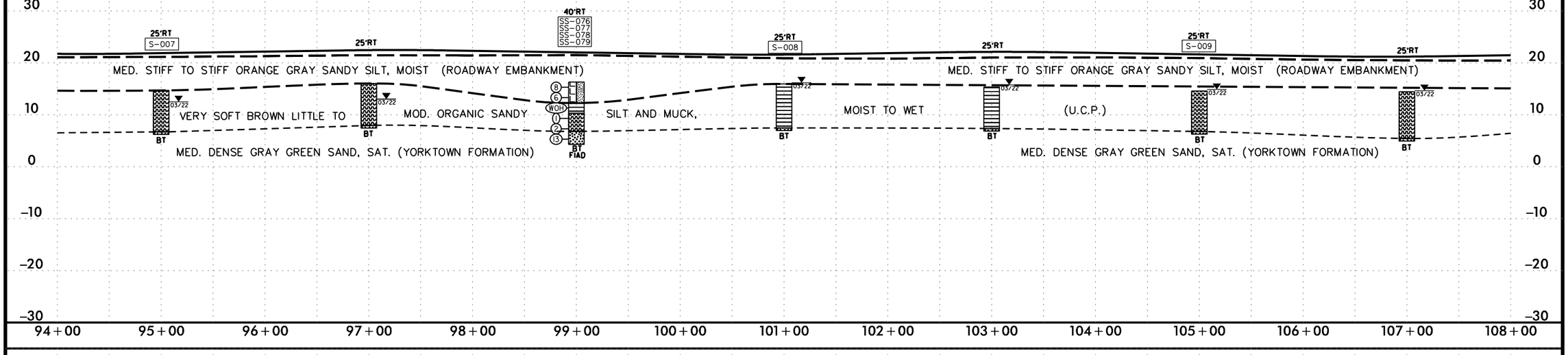
PROJECT REFERENCE NO.	SHEET NO.
R-5808	26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

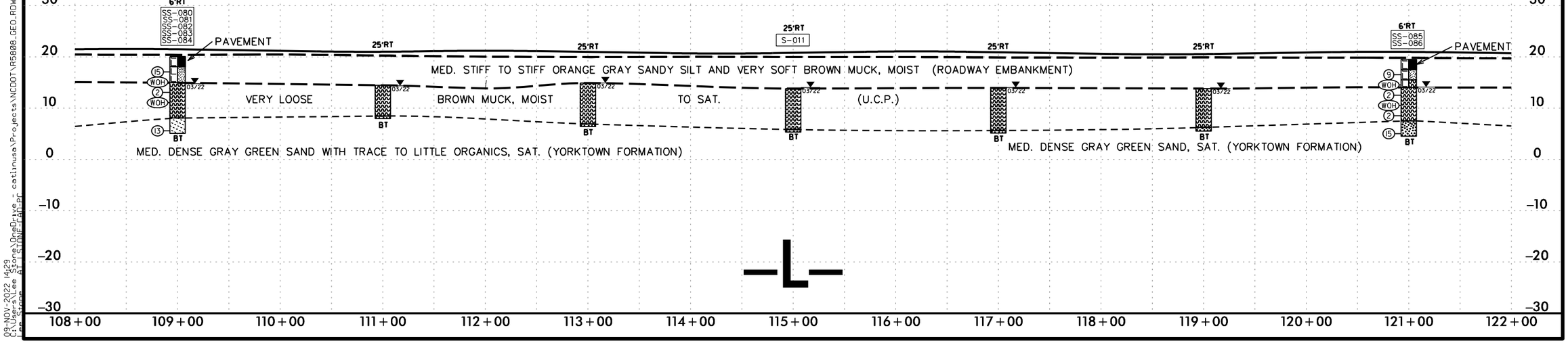
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
S-007	25 ft RT	95+00	0,0 - 8,0	A-4(0)	NP	NP	40,7	14,4	39,5	5,5	95,8	67	46	218	56,5
SS-076	25 ft RT	99+00	4,0 - 6,0	A-6(1)	29	11	21,5	40,7	21,1	16,6	97,5	93	41	-	6,0
SS-077	25 ft RT	99+00	6,0 - 8,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	52,1
SS-078	25 ft RT	99+00	8,0 - 9,5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	41,8
SS-079	25 ft RT	99+00	10,0 - 12,0	A-2-4(0)	NP	NP	37,8	51,0	6,6	4,6	100	91	14	-	-
S-008	25 ft RT	101+00	0,0 - 8,0	A-4(0)	NP	NP	27,5	38,9	27,1	6,5	99,6	89	36	71	16,6
S-009	25 ft RT	105+00	0,0 - 7,8	A-4(0)	NP	NP	34,5	18,1	40,3	7,1	99,8	74	49	231	56,6



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-080	6 ft RT	109+00	4,5 - 6,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72,3
SS-081	6 ft RT	109+00	6,0 - 8,0	A-2-4(0)	NP	NP	17,5	59,2	13,0	10,4	90,8	92	27	-	11,6
SS-082	6 ft RT	109+00	8,0 - 10,0	A-2-4(0)	NP	NP	22,8	50,9	18,4	7,8	87,1	86	29	-	20,2
SS-083	6 ft RT	109+00	10,0 - 12,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21,8
SS-084	6 ft RT	109+00	13,5 - 15,0	A-2-4(0)	25	6	24,5	45,2	20,0	10,3	97,0	92	33	-	3,7
S-011	25 ft RT	115+00	0,0 - 8,0	A-2-4(0)	NP	NP	25,4	45,4	24,8	4,5	99,3	89	32	278	21,7
SS-085	6 ft RT	121+00	4,0 - 6,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	10,5
SS-086	6 ft RT	121+00	6,0 - 8,0	-	NP	NP	-	-	-	-	NEM	NEM	NEM	-	50,2



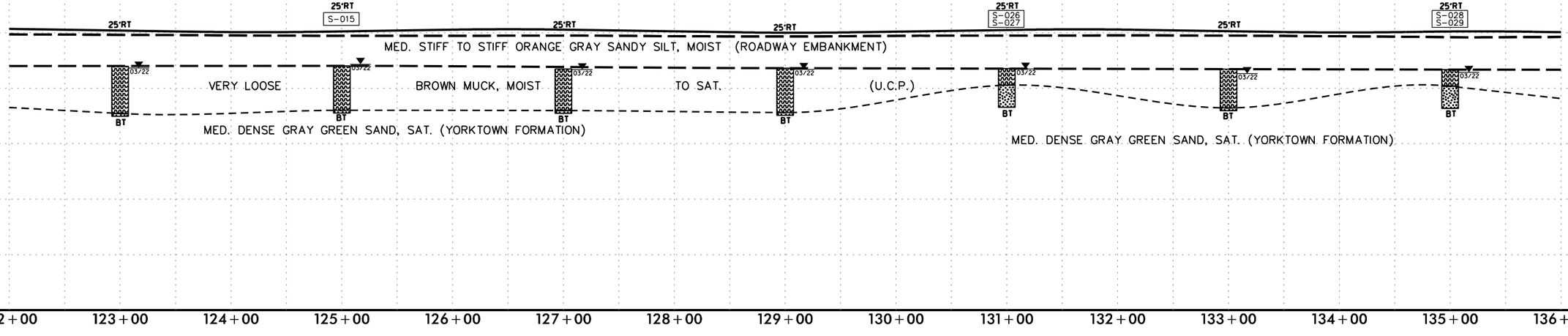
PROJECT REFERENCE NO.	SHEET NO.
R-5808	27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

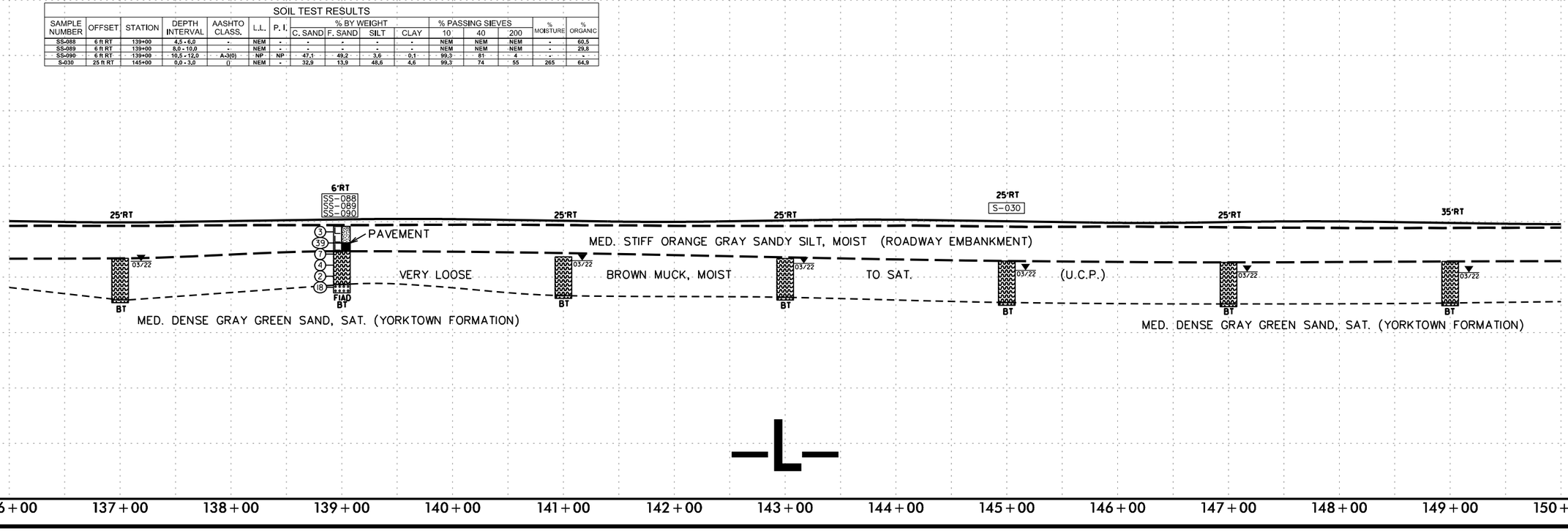
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
S-015	25 ft RT	125+00	0.0 - 8.0	A-2-4(0)	NP	NP	73.7	9.4	16.7	0.2	99.7	35	18	575	83.8
S-026	25 ft RT	131+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	.560	71.6
S-027	25 ft RT	131+00	3.0 - 7.0	A-2-4(0)	NP	NP	42.8	35.2	13.4	8.6	99.2	81	23	-	-
S-028	25 ft RT	135+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	74.1
S-029	25 ft RT	135+00	3.0 - 7.0	()	NEM	-	43.3	34.3	18.4	4.0	99.0	79	23	-	-



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-088	6 ft RT	139+00	4,5 - 6,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60,5
SS-089	6 ft RT	139+00	8,0 - 10,0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	29,8
SS-090	6 ft RT	139+00	10,5 - 12,0	A-3(0)	NP	NP	47,1	49,2	3,6	0,1	99,3	81	4	-	-
S-030	25 ft RT	145+00	0,0 - 3,0	()	NEM	-	32,9	13,9	48,6	4,6	99,3	74	55	265	64,9



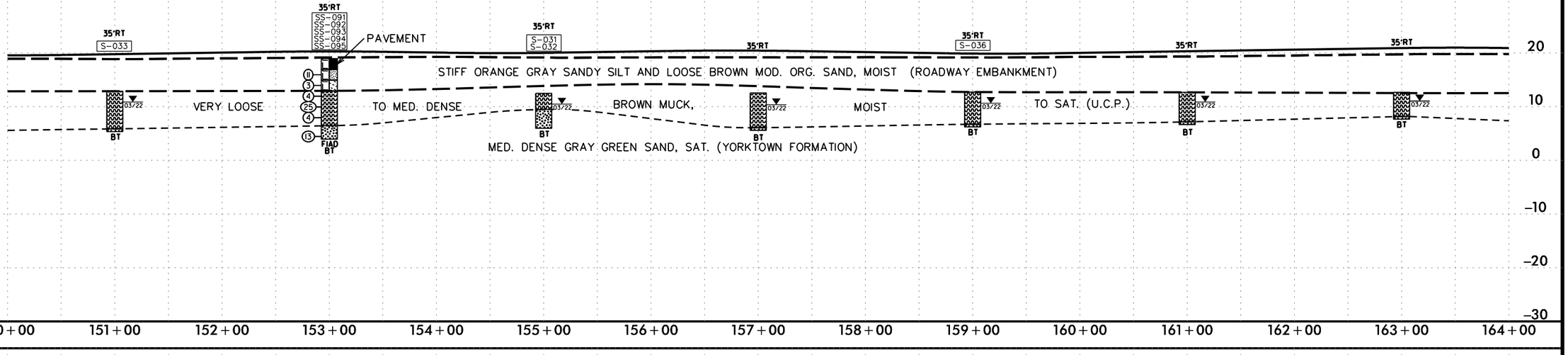
PROJECT REFERENCE NO.	SHEET NO.
R-5808	28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

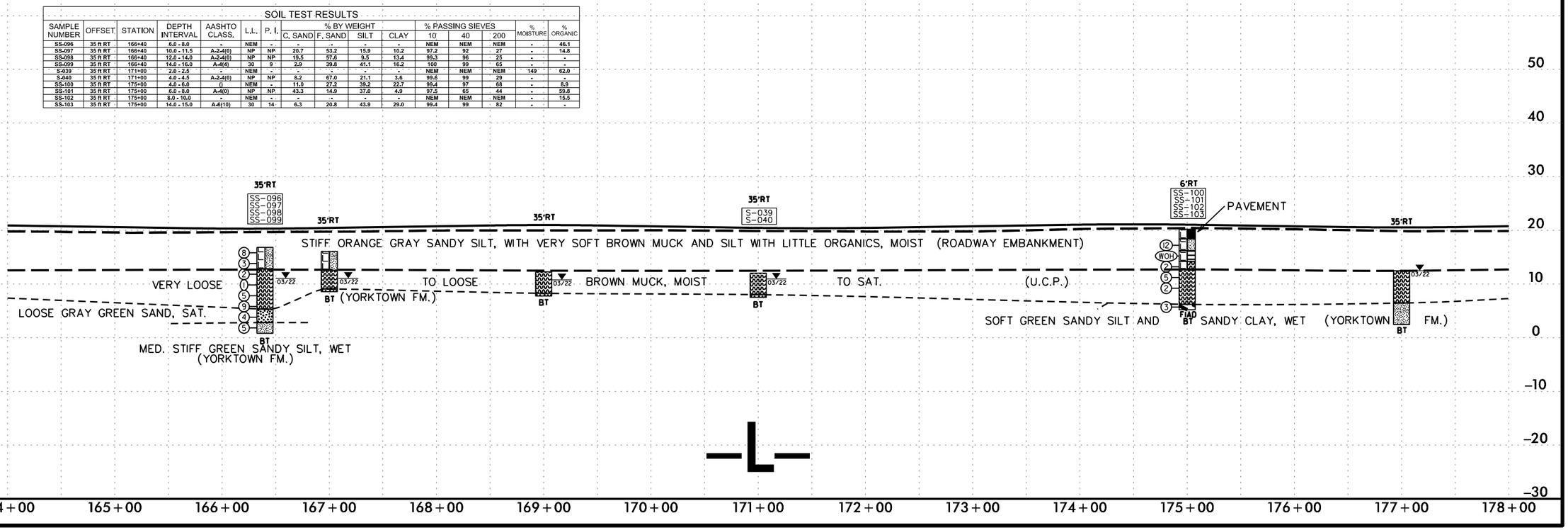
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
S-033	35 ft RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	436	73.4
SS-091	35 ft RT	153+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.4	48.1	19.0	8.4	97.2	90	31	-	7.8
SS-092	35 ft RT	153+00	6.0 - 8.0	()	NEM	-	22.5	20.3	52.8	4.4	91.0	84	60	-	44.0
SS-093	35 ft RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	51.8
SS-094	35 ft RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	73.9
SS-095	35 ft RT	153+00	13.5 - 15.0	A-2-4(0)	NP	NP	30.5	49.6	10.9	9.0	99	88	22	-	-
S-031	35 ft RT	155+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	78.7
S-032	35 ft RT	155+00	3.0 - 6.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99.8	97	11	-	-
S-036	35 ft RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	77.4



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-096	35 ft RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	46.1
SS-097	35 ft RT	166+40	10.0 - 11.5	A-2-4(0)	NP	NP	20.7	53.2	15.9	10.2	97.2	92	27	-	14.8
SS-098	35 ft RT	166+40	12.0 - 14.0	A-2-4(0)	NP	NP	19.5	57.6	9.5	13.4	99.3	96	25	-	-
SS-099	35 ft RT	166+40	14.0 - 16.0	A-4(4)	30	9	2.9	39.8	41.1	16.2	100	99	65	-	-
S-039	35 ft RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	149	62.0
S-040	35 ft RT	171+00	4.0 - 4.5	A-2-4(0)	NP	NP	8.2	67.0	21.1	3.6	99.6	99	29	-	-
SS-100	35 ft RT	175+00	4.0 - 6.0	()	NEM	-	11.0	27.2	39.2	22.7	99.4	97	68	-	8.9
SS-101	35 ft RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.0	4.9	97.5	65	44	-	59.8
SS-102	35 ft RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	15.5
SS-103	35 ft RT	175+00	14.0 - 15.0	A-6(10)	30	14	6.3	20.8	43.9	29.0	99.4	99	82	-	-



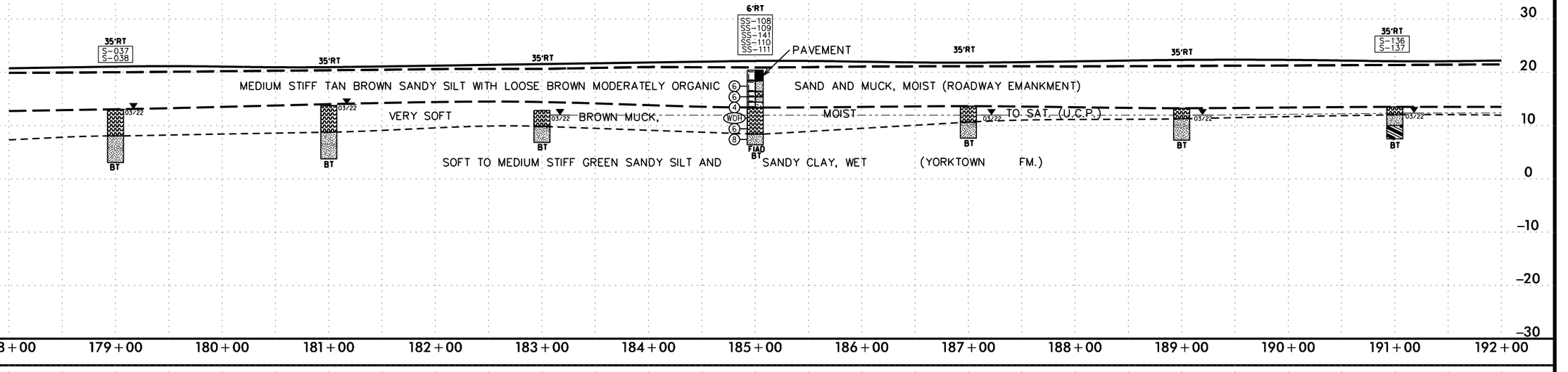
PROJECT REFERENCE NO.	SHEET NO.
R-5808	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

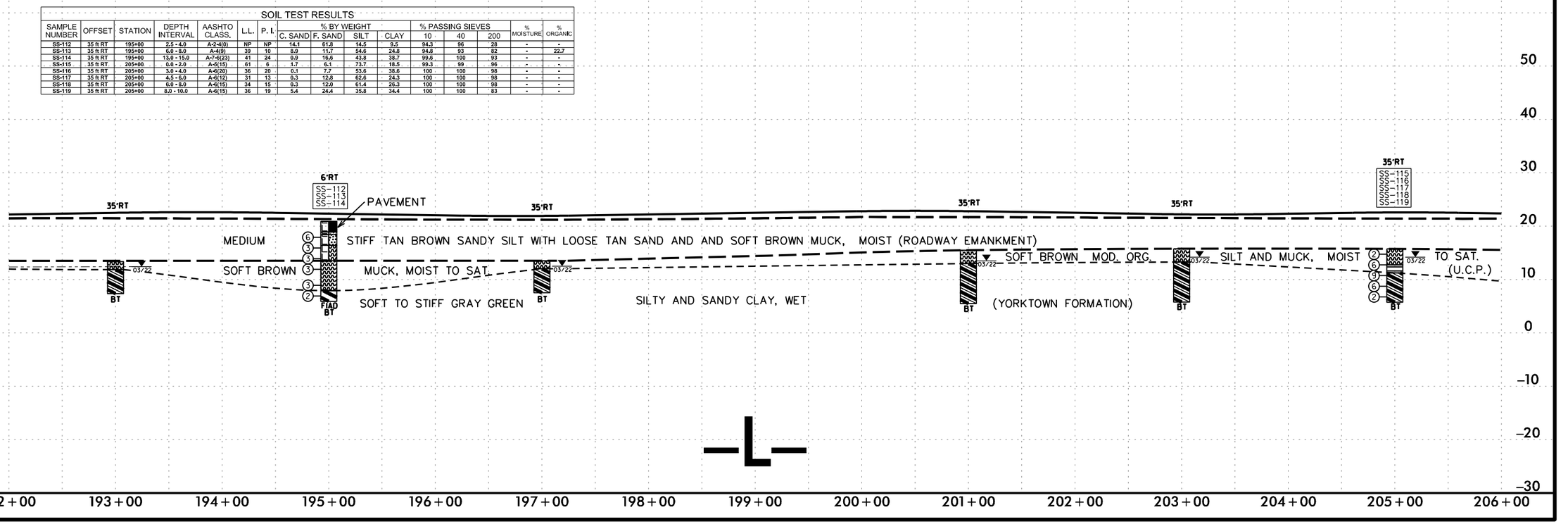
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
S-037	35 ft RT	179+00	3.0 - 3.5	()	NEM	-	19.8	8.2	64.8	7.2	99.4	90	73	292	73.0
S-038	35 ft RT	179+00	6.0 - 7.0	A-4(0)	25	2	2.3	34.8	55.2	7.7	99.9	99	80	-	-
SS-108	6 ft RT	185+00	2.5 - 4.0	A-4(0)	20	6	13.8	49.8	17.6	18.8	100	98	41	-	-
SS-109	6 ft RT	185+00	4.0 - 5.0	A-4(0)	NP	NP	25.3	12.0	45.4	17.2	89.6	82	65	-	20.9
SS-141	6 ft RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.0	44.4	29.6	12.9	99.4	99	48	-	-
SS-110	6 ft RT	185+00	6.0 - 7.0	A-2-4(0)	NP	NP	18.8	60.6	16.7	3.9	96.5	96	23	-	5.1
SS-111	6 ft RT	185+00	7.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	74.2
S-136	35 ft RT	191+00	1.0 - 1.5	A-5(22)	85	8	5.9	5.4	54.5	34.2	99.6	96	90	122	40.6
S-137	35 ft RT	191+00	4.0 - 4.5	A-6(10)	30	11	0.5	6.2	71.3	22.0	99.9	100	98	-	-



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-112	35 ft RT	195+00	2.5 - 4.0	A-2-4(0)	NP	NP	14.1	61.8	14.5	9.5	94.3	96	28	-	-
SS-113	35 ft RT	195+00	6.0 - 8.0	A-4(9)	39	10	8.9	11.7	54.6	24.8	94.8	93	82	-	22.7
SS-114	35 ft RT	195+00	13.0 - 15.0	A-7-6(23)	41	24	0.9	16.6	43.8	38.7	99.6	100	93	-	-
SS-115	35 ft RT	205+00	0.0 - 2.0	A-5(15)	61	6	1.7	6.1	73.7	18.5	99.3	99	96	-	-
SS-116	35 ft RT	205+00	3.0 - 4.0	A-6(20)	36	20	0.1	7.7	53.6	38.6	100	100	98	-	-
SS-117	35 ft RT	205+00	4.5 - 6.0	A-6(12)	31	13	0.3	12.8	62.6	24.3	100	100	98	-	-
SS-118	35 ft RT	205+00	6.0 - 8.0	A-6(15)	34	15	0.3	12.0	61.4	26.3	100	100	98	-	-
SS-119	35 ft RT	205+00	8.0 - 10.0	A-6(15)	36	19	5.4	24.4	35.8	34.4	100	100	83	-	-



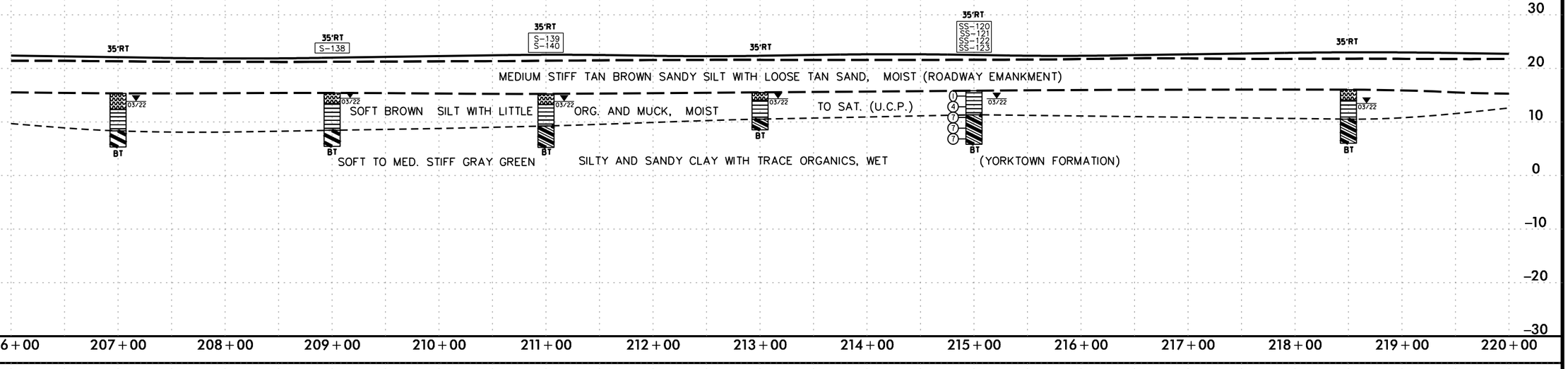
PROJECT REFERENCE NO.	SHEET NO.
R-5808	30
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

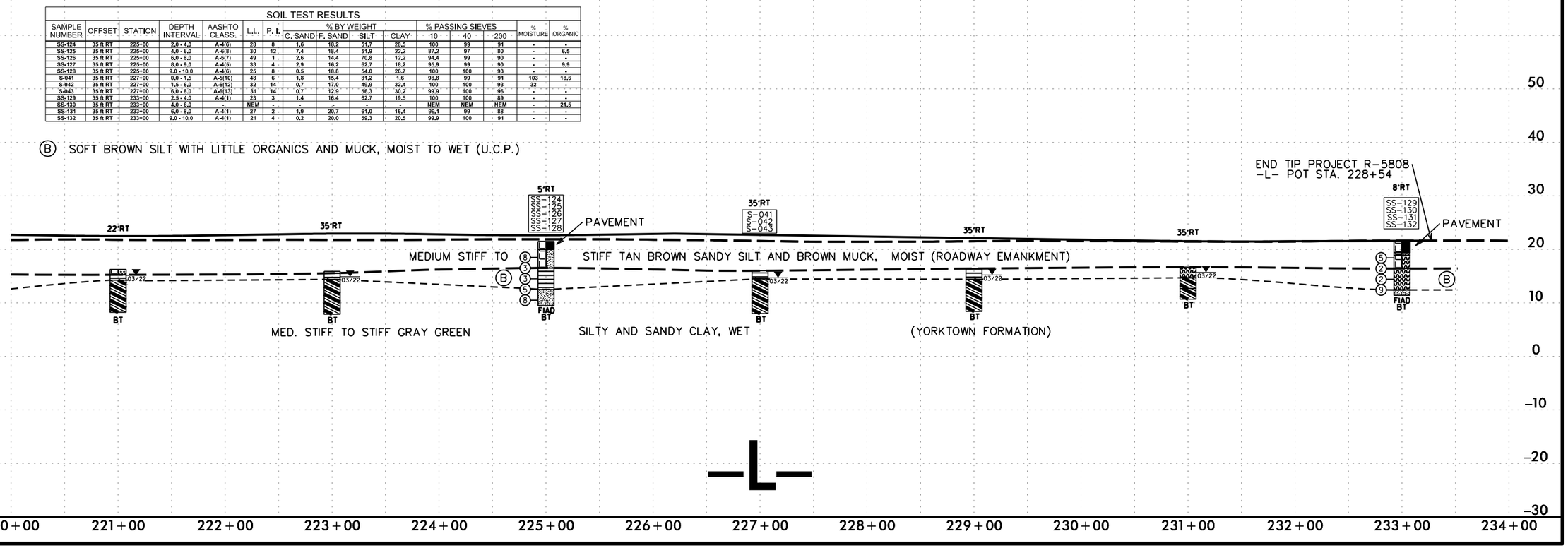
SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
S-138	35 ft RT	209+00	1.0 - 1.5	A-5(13)	62	3	1.3	3.4	76.4	18.9	100	99	97	99	32.3
S-139	35 ft RT	211+00	0.5 - 1.5	A-5(13)	58	4	1.5	4.9	79.6	14.0	99.2	99	97	90	24.4
S-140	35 ft RT	211+00	6.5 - 7.0	A-6(10)	28	11	0.1	11.8	64.1	23.9	99.9	100	98	-	-
SS-120	35 ft RT	215+00	0.0 - 2.0	A-4(5)	33	4	3.4	10.5	59.8	26.4	99.8	98	93	-	10.1
SS-121	35 ft RT	215+00	2.0 - 4.0	A-6(10)	29	12	1.0	9.8	52.5	36.6	99.9	100	96	-	4.6
SS-122	35 ft RT	215+00	4.5 - 6.0	A-6(13)	31	14	0.2	14.4	59.1	26.4	100	100	98	-	-
SS-123	35 ft RT	215+00	6.0 - 8.0	A-6(20)	38	20	0.6	12.4	54.5	32.5	100	100	97	-	-



SOIL TEST RESULTS

SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT C. SAND	F. SAND	SILT	CLAY	% PASSING SIEVES 10	40	200	% MOISTURE	% ORGANIC
SS-124	35 ft RT	225+00	2.0 - 4.0	A-4(6)	28	8	1.6	18.2	51.7	28.5	100	99	91	-	-
SS-125	35 ft RT	225+00	4.0 - 6.0	A-6(8)	30	12	7.4	18.4	51.9	22.2	97.2	97	80	-	6.5
SS-126	35 ft RT	225+00	6.0 - 8.0	A-5(7)	49	1	2.6	14.4	70.8	12.2	94.4	99	90	-	-
SS-127	35 ft RT	225+00	8.0 - 9.0	A-4(5)	33	4	2.9	16.2	62.7	18.2	95.9	99	90	-	9.9
SS-128	35 ft RT	225+00	9.0 - 10.0	A-4(6)	25	8	0.5	18.8	54.0	26.7	100	100	93	-	-
S-041	35 ft RT	227+00	0.0 - 1.5	A-5(10)	48	6	1.8	15.4	81.2	1.6	98.8	99	91	103	18.6
S-042	35 ft RT	227+00	1.5 - 6.0	A-6(12)	32	14	0.7	17.0	49.9	32.4	100	100	93	32	-
S-043	35 ft RT	227+00	6.0 - 8.0	A-6(13)	31	14	0.7	12.9	56.3	30.2	99.9	100	96	-	-
SS-129	35 ft RT	233+00	2.5 - 4.0	A-4(1)	23	3	1.4	16.4	62.7	19.5	100	100	89	-	-
SS-130	35 ft RT	233+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.5
SS-131	35 ft RT	233+00	6.0 - 8.0	A-4(1)	27	2	1.9	20.7	61.0	16.4	99.1	99	88	-	-
SS-132	35 ft RT	233+00	9.0 - 10.0	A-4(1)	21	4	0.2	20.0	59.3	20.5	99.9	100	91	-	-



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Lee Stone
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6/23/16

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70
65
60
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25
20
15

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

18+00.00

—L—

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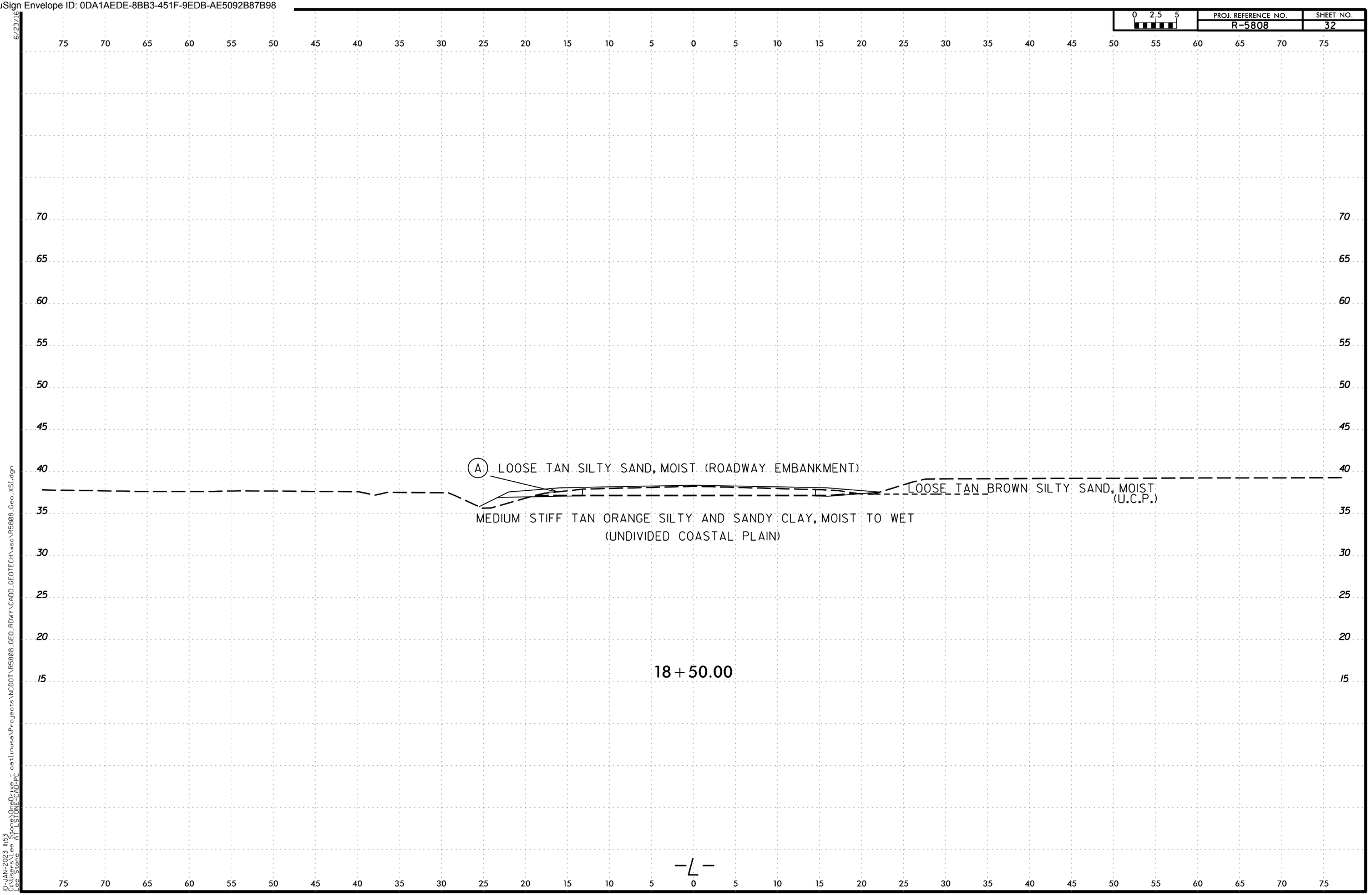

6/23/16

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	R-5808	33

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65 60 55 50 45 40 35 30 25 20 15 10

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY,

(UNDIVIDED COASTAL PLAIN)

LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

03/22

MOIST TO WET

BT

19+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	34

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65 60 55 50 45 40 35 30 25 20 15 10

Ⓐ LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

19 + 50.00

—L—

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Lee Stone AT LSTONE-CAD-PC

6/23/16

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65 60 55 50 45 40 35 30 25 20 15 10

LOOSE TAN BROWN SILTY SAND, MOIST (U.C.P.)

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

20+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	36

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65 60 55 50 45 40 35 30 25 20 15 10

A LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

20+50.00

-L-

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	37

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60 55 50 45 40 35 30 25 20 15 10 5

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

03/22

BT

21+00.00

—L—

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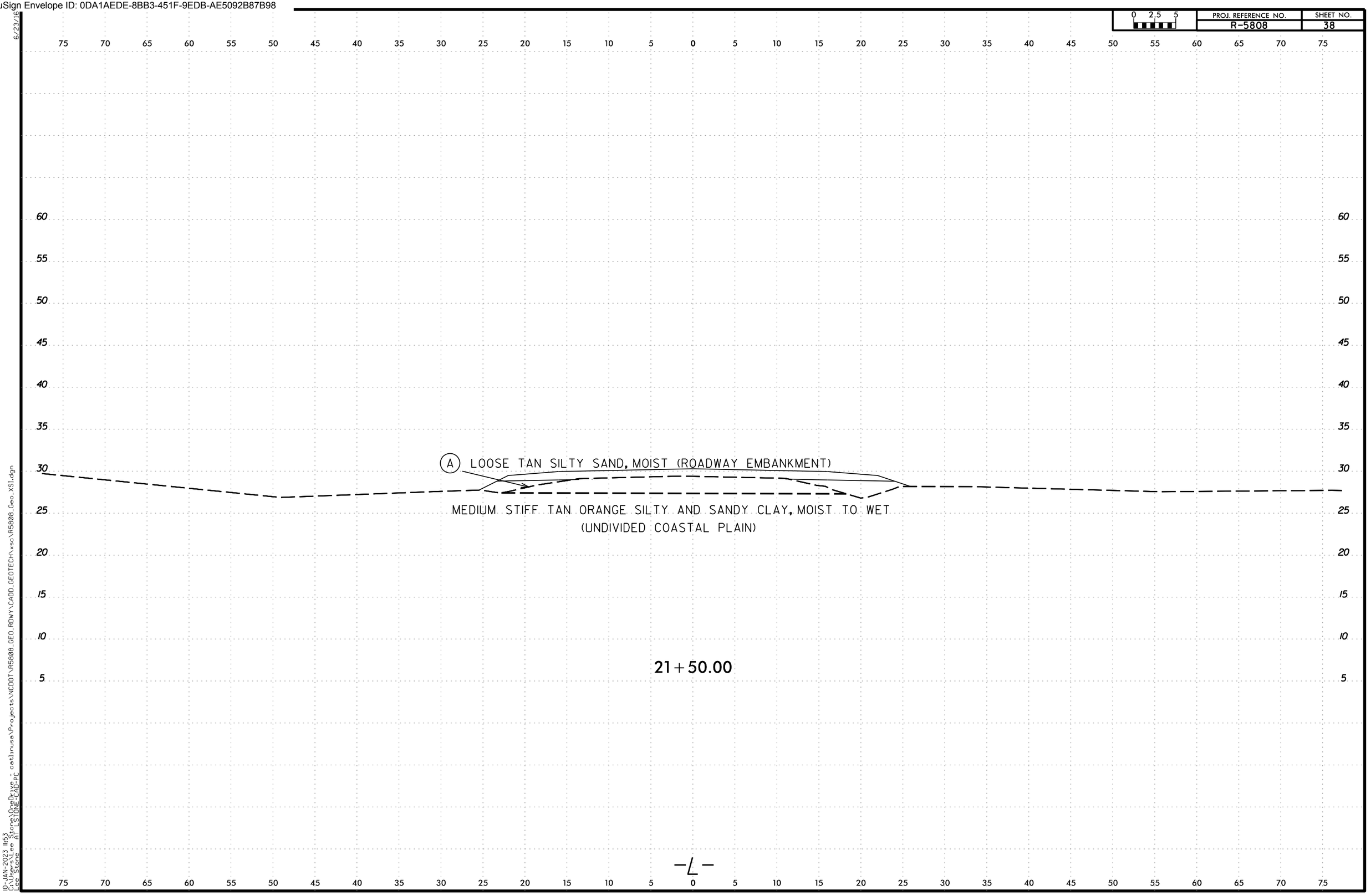
Lee Stone AT LSTONE CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	38



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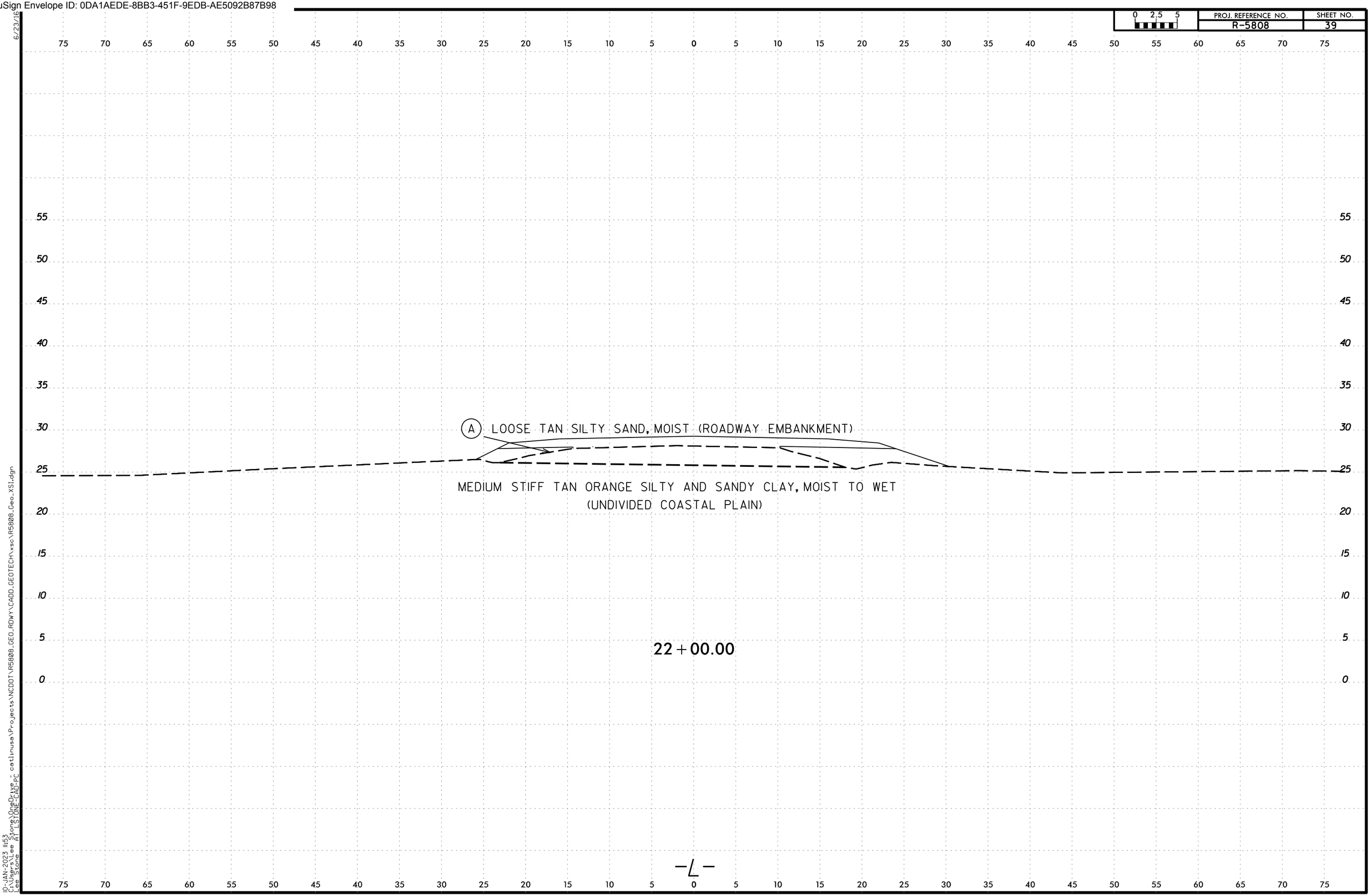

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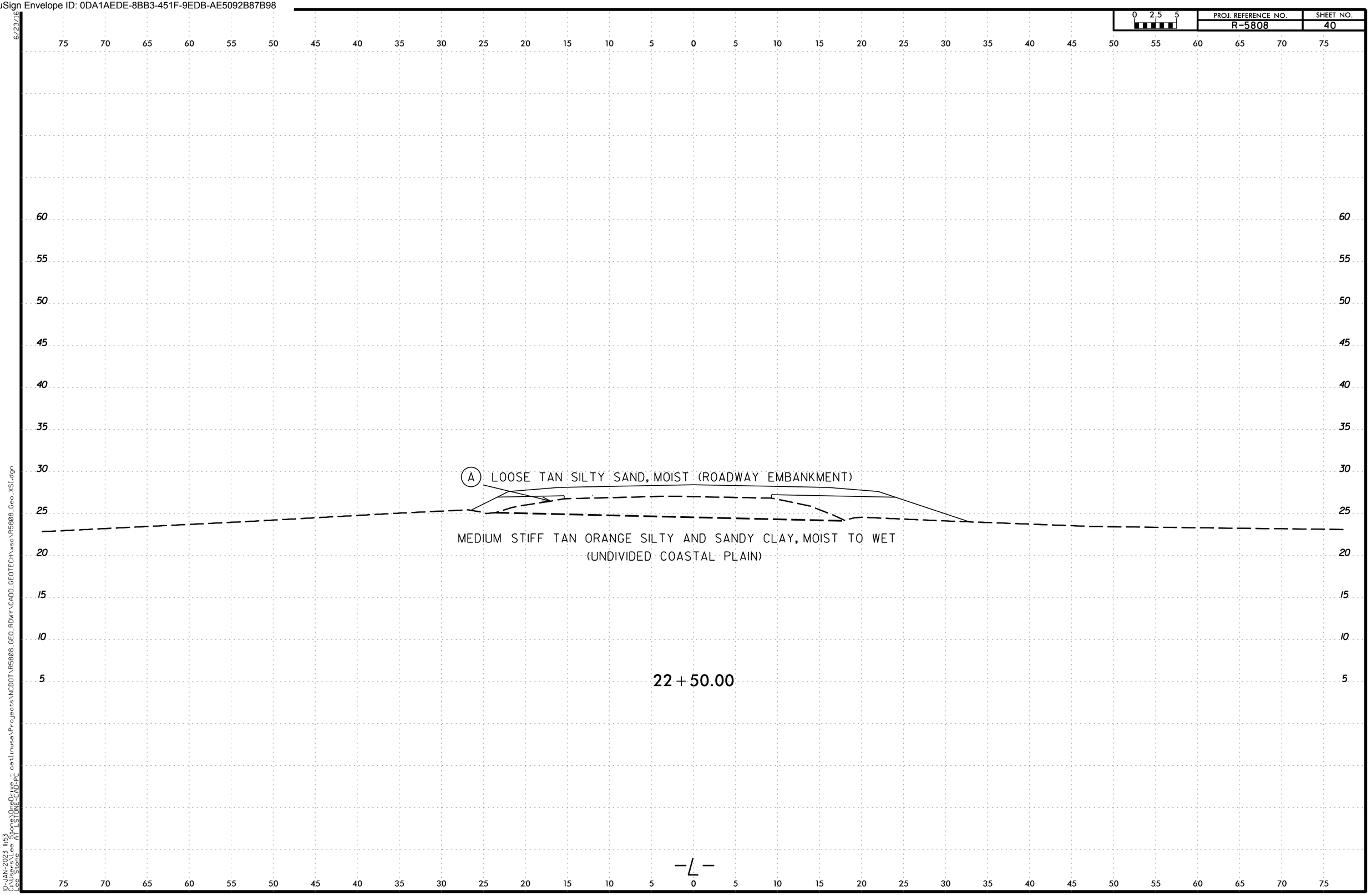

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	41

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55 50 45 40 35 30 25 20 15 10 5 0

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-003	25 ft RT	23+00	0.0 - 7.0	A-6(18)	40	18	1.5	9.8	42.9	45.9	99.7	99	92	41	-
S-004	25 ft RT	23+00	7.0 - 9.0	A-6(9)	30	15	2.3	30.2	30.1	37.4	99.9	100	73	-	-

(A) LOOSE TAN SILTY SAND, MOIST (ROADWAY EMBANKMENT)

S-003
S-004
03/22

MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET

(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

BT

23+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	42

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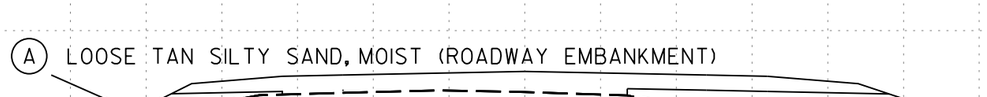


MEDIUM STIFF TAN ORANGE SILTY AND SANDY CLAY, MOIST TO WET

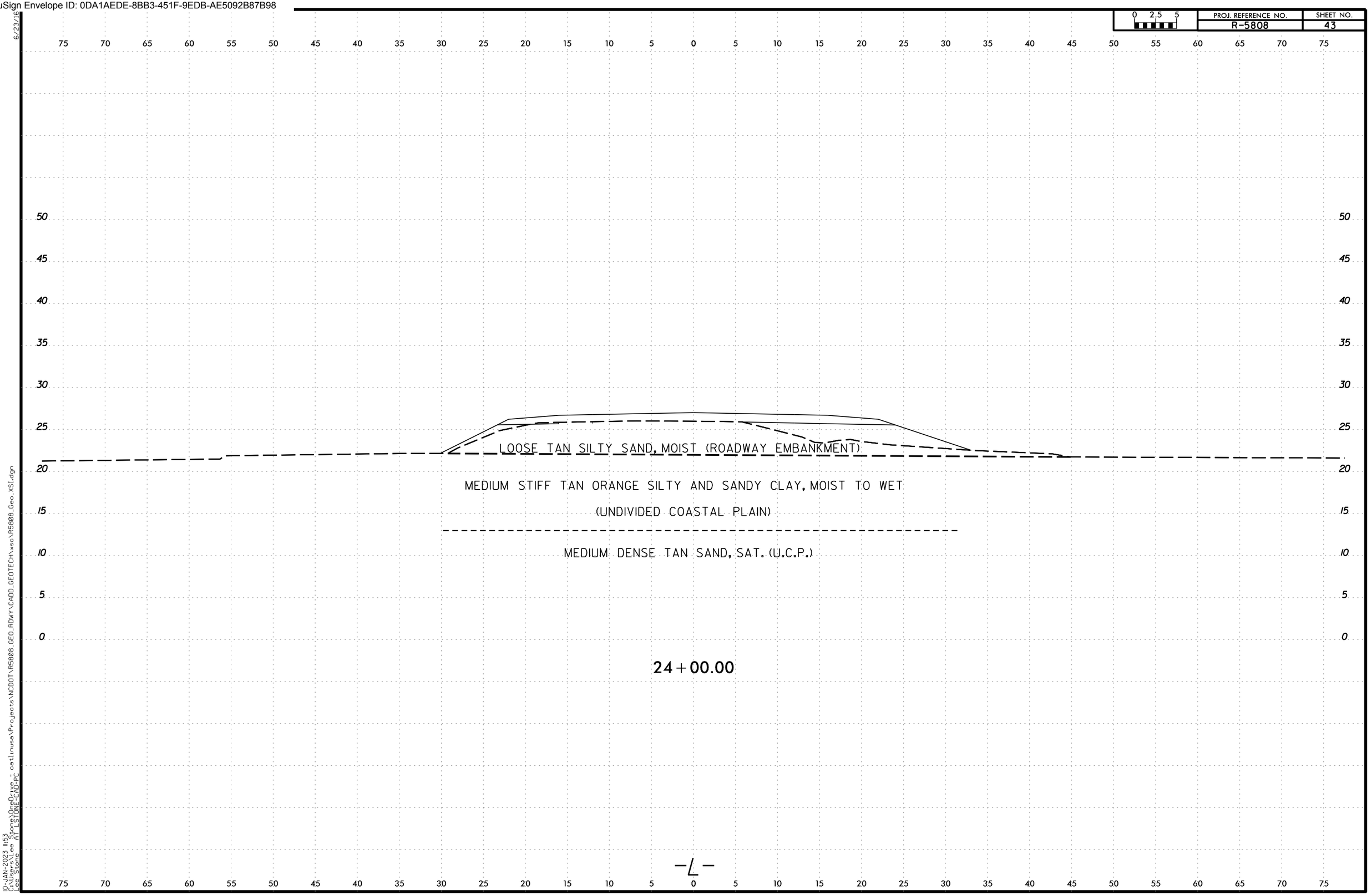
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

23+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	43



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN GRAY SANDY CLAY
AND SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

24+50.00

-L-

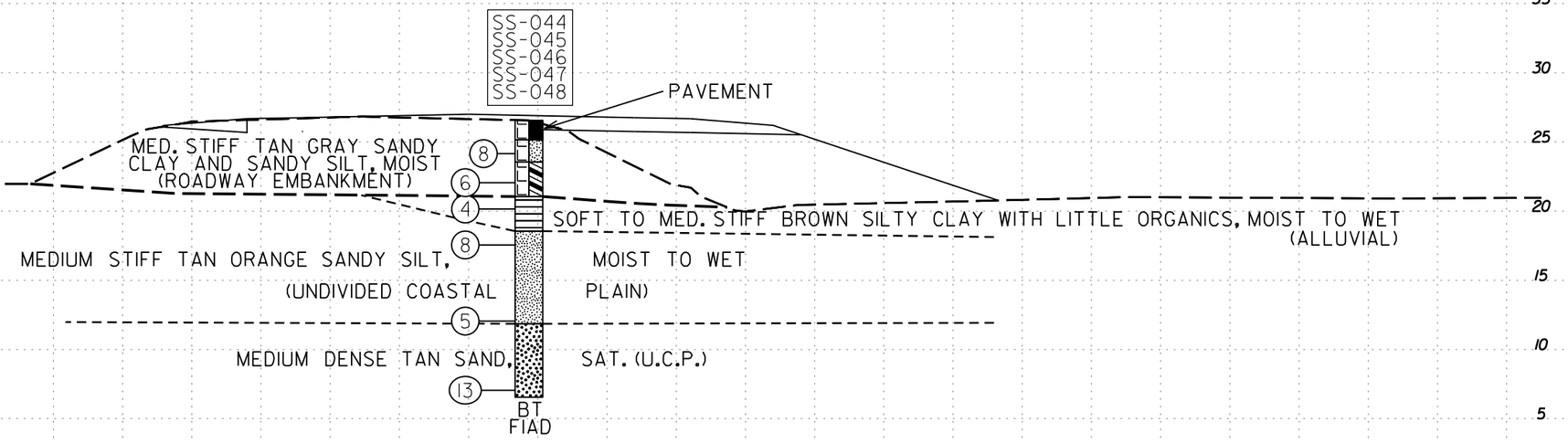
6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

SOIL TEST RESULTS

SAMPLE NUMBER	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-044	4 ft RT	25+00	1.4 - 3.4	A-4(1)	23	10	17.3	43.6	15.0	24.1	94.2	93	42	-	-
SS-045	4 ft RT	25+00	3.4 - 5.4	A-6(9)	35	20	10.0	33.1	22.2	34.6	99.1	98	60	-	-
SS-046	4 ft RT	25+00	6.0 - 8.0	A-7-6(16)	44	22	4.4	22.2	29.7	43.7	100	99	76	-	7.8
SS-047	4 ft RT	25+00	8.0 - 10.0	A-4(0)	17	2	7.8	53.7	19.2	19.3	99.9	98	42	-	-
SS-048	4 ft RT	25+00	12.5 - 14.7	A-2-4(0)	25	8	16.1	52.8	14.6	16.5	88.5	93	35	-	-



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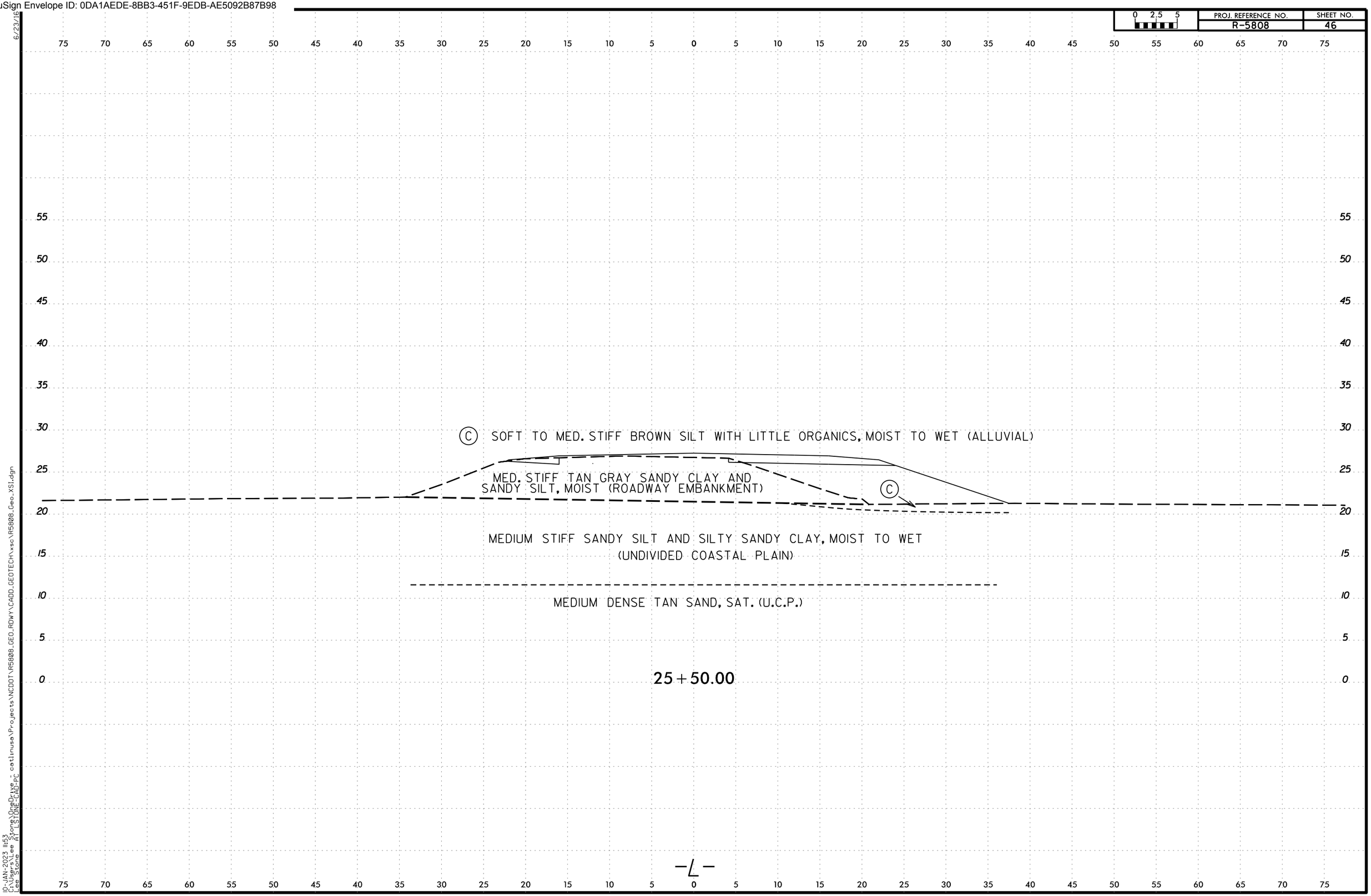
	R-5808	46



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55 50 45 40 35 30 25 20 15 10 5 0

Ⓒ SOFT TO MED. STIFF BROWN SILT WITH LITTLE ORGANICS, MOIST TO WET (ALLUVIAL)

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓒ

MEDIUM STIFF SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

26+00.00

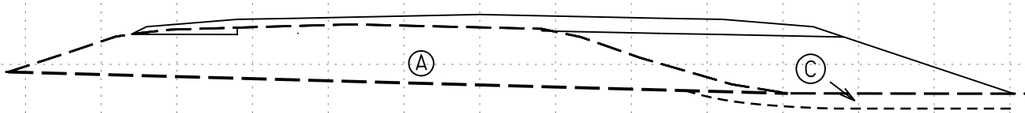
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	48

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓒ SOFT TO MED. STIFF BROWN SILT WITH LITTLE ORGANICS, MOIST TO WET (ALLUVIAL)



MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

26+50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

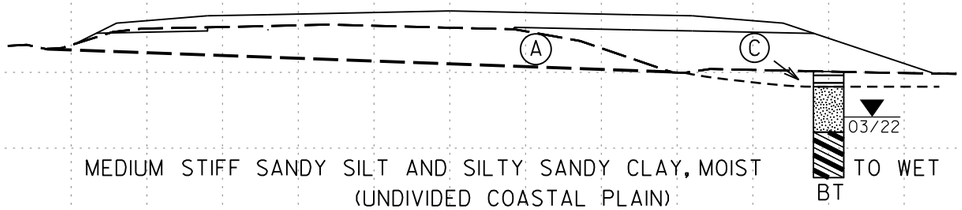
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	49

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

(C) SOFT TO MED. STIFF BROWN SILT WITH LITTLE ORGANICS, MOIST TO WET (ALLUVIAL)



MEDIUM STIFF SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

27+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	50

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

(C) SOFT TO MED. STIFF BROWN SILT WITH LITTLE ORGANICS, MOIST TO WET (ALLUVIAL)

MEDIUM STIFF SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

27+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	51

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

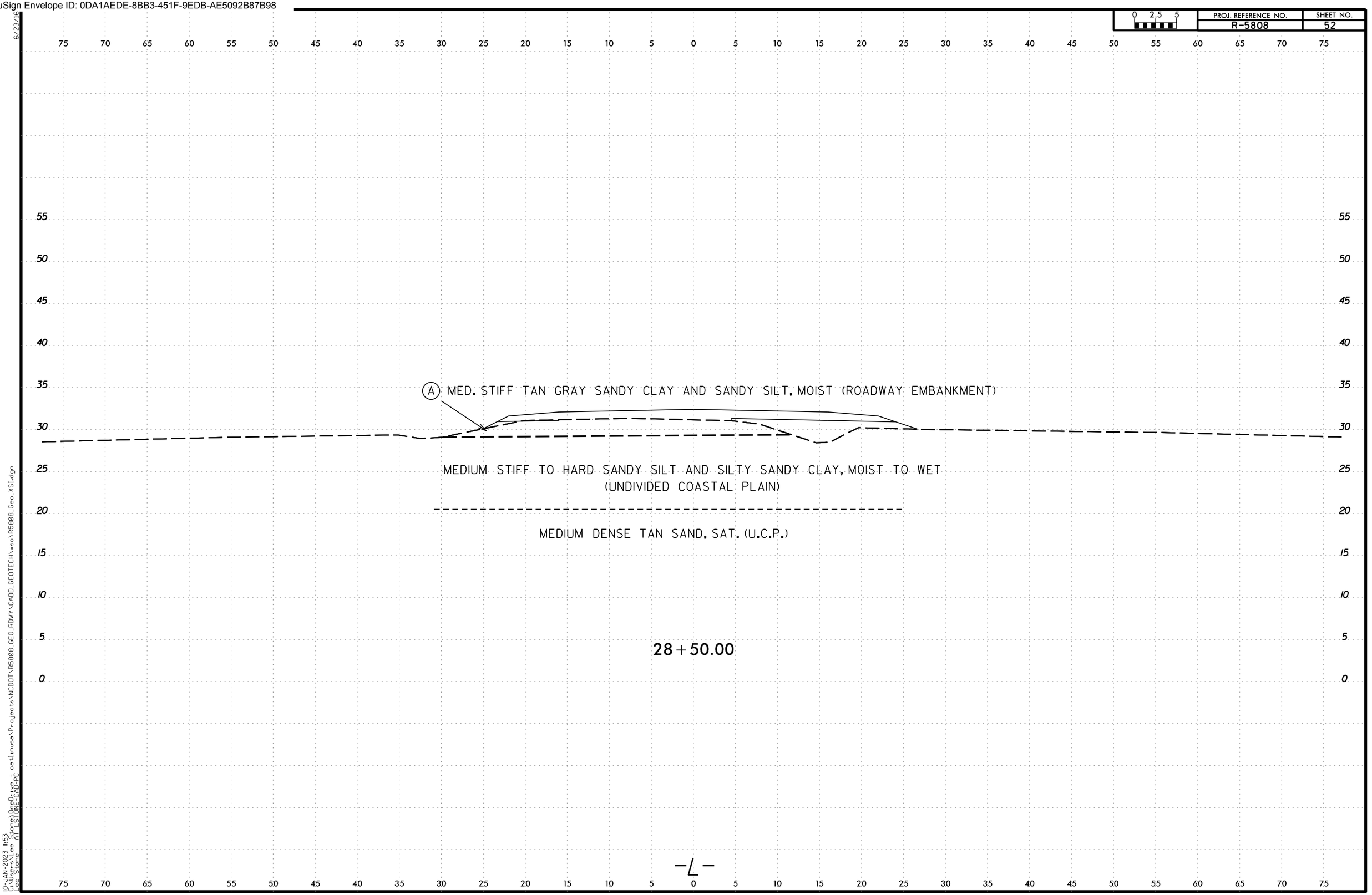
MEDIUM STIFF SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

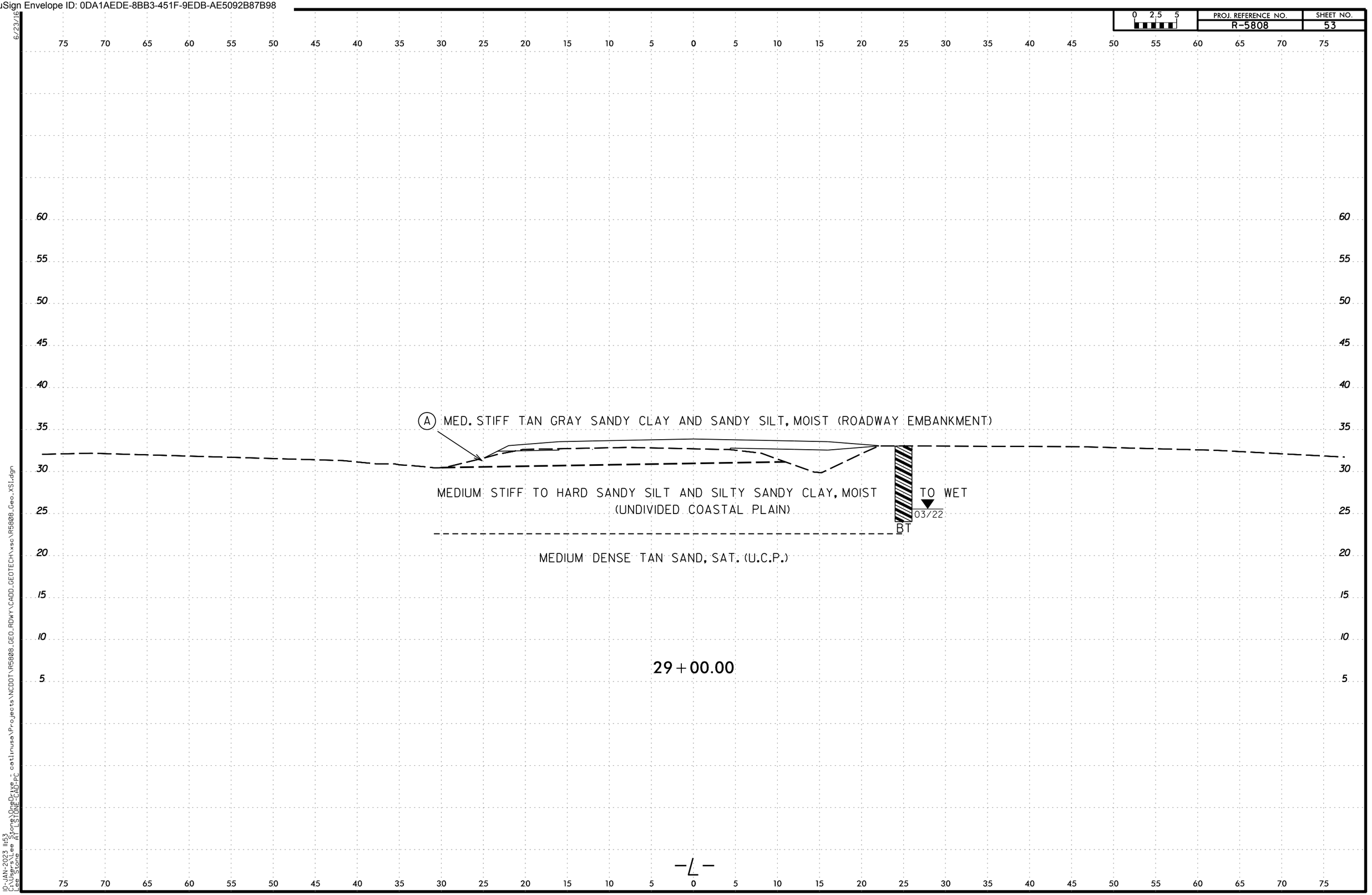
28+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	52



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	53



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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	54

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

60 55 50 45 40 35 30 25 20 15 10 5

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, SAT. (U.C.P.)

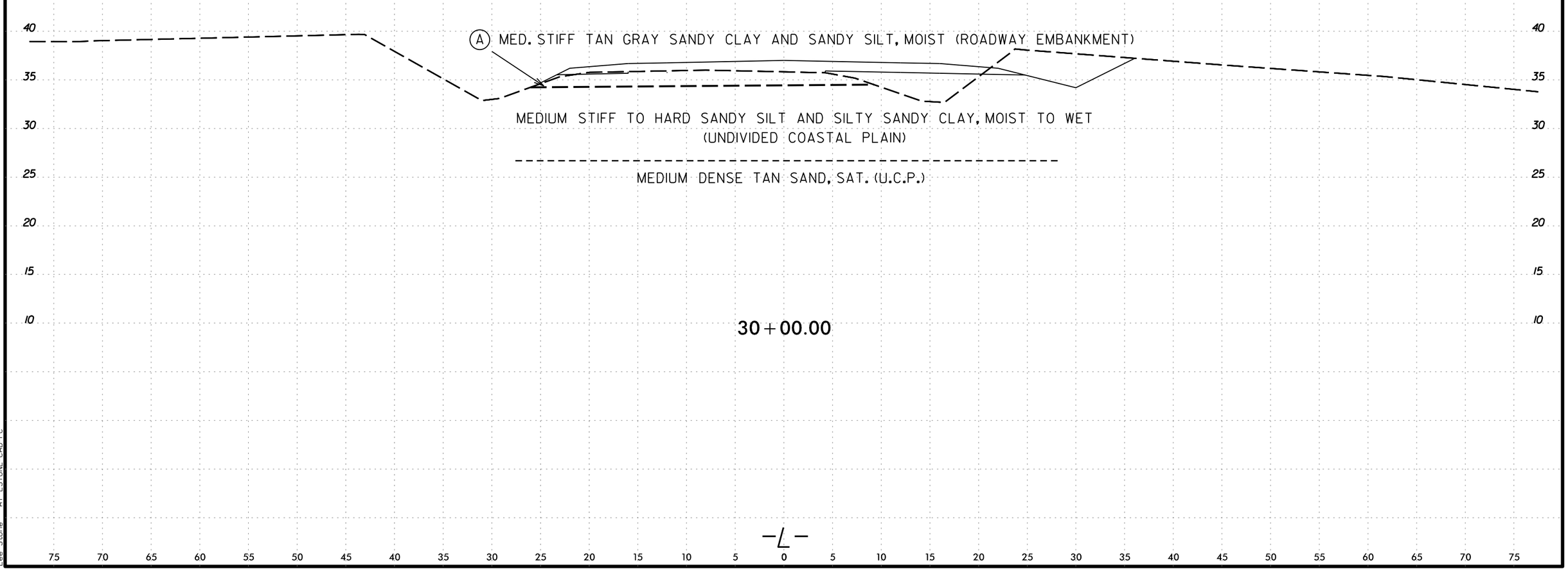
29+50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	55

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65 60 55 50 45 40 35 30 25 20 15 10



30+00.00

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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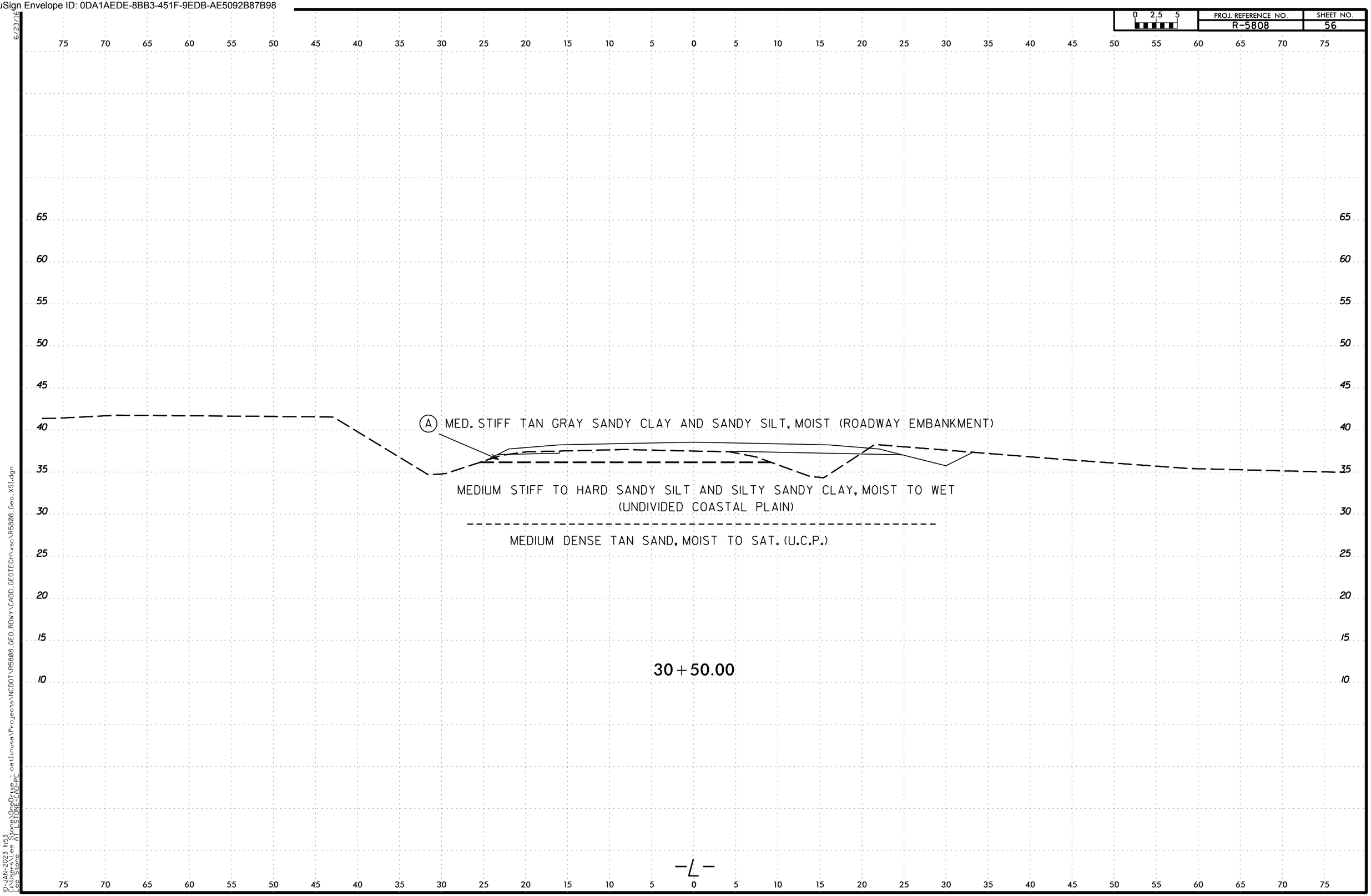
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	56



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	57

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65 60 55 50 45 40 35 30 25 20 15 10

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET

(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

BT
DRY

31+00.00

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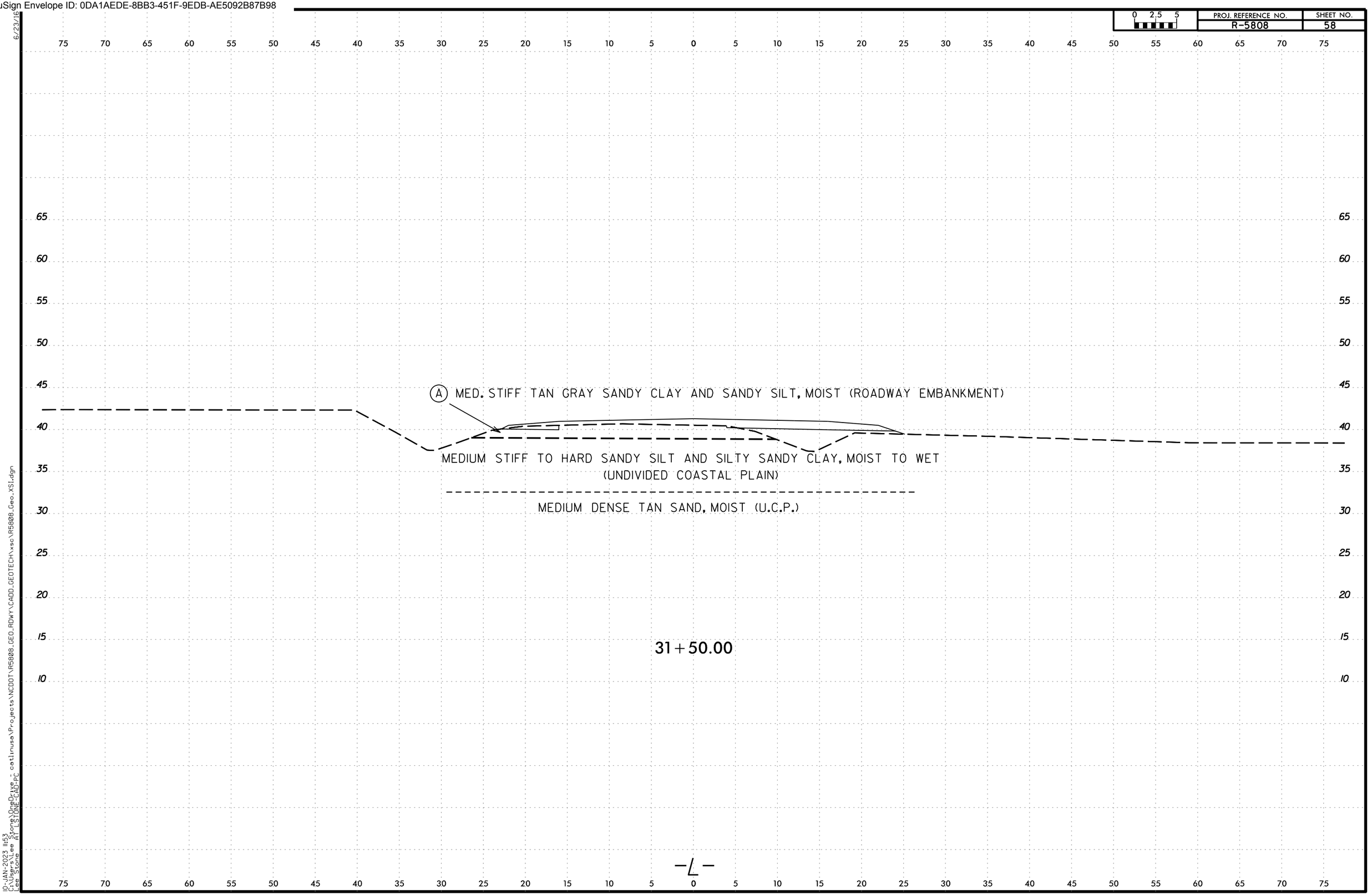
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	58



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	59

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

70 65 60 55 50 45 40 35 30 25 20 15

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

32 + 00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	60

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

70 65 60 55 50 45 40 35 30 25 20 15

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

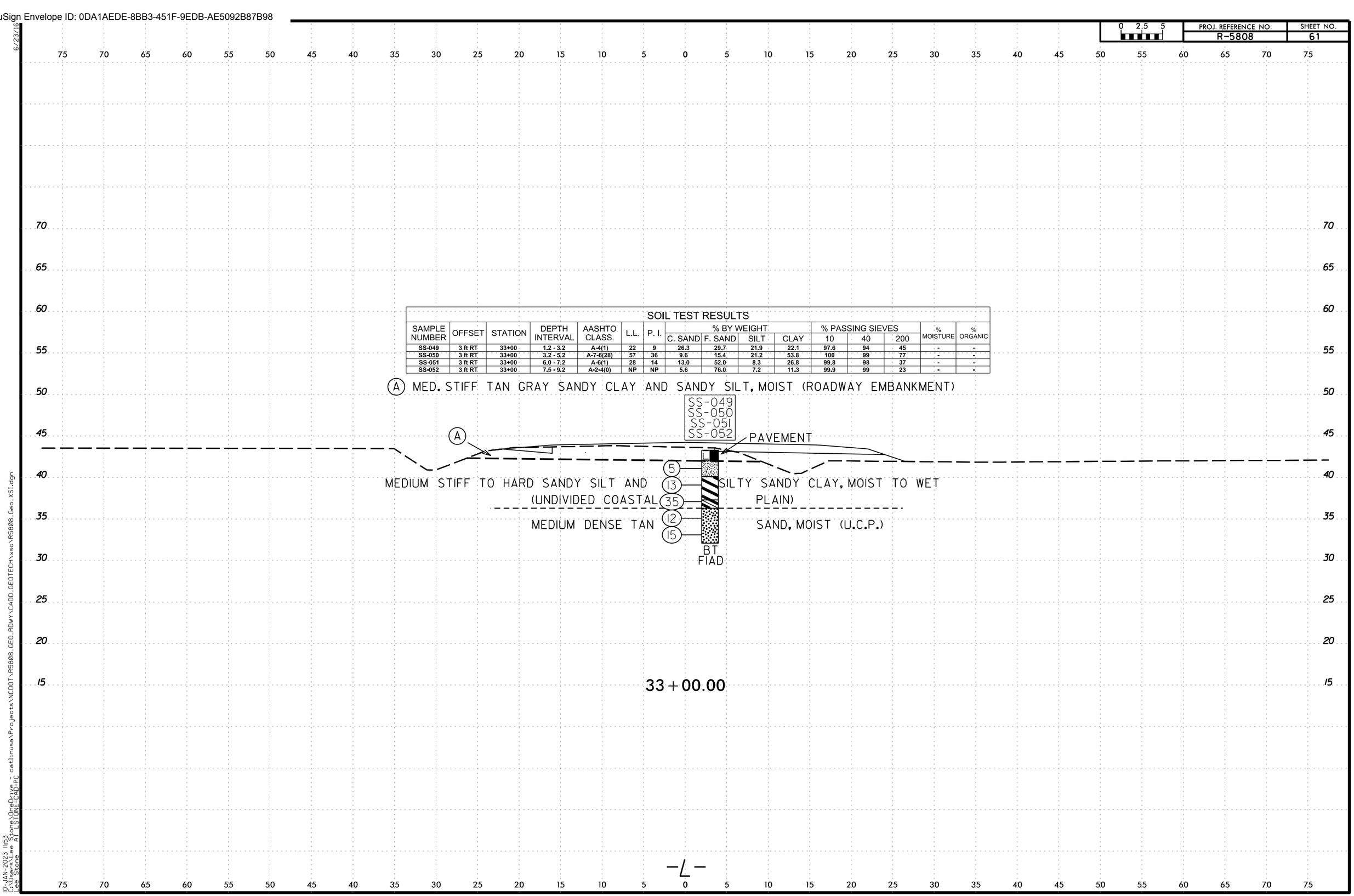
MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST TO WET
(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

32 + 50.00

SOIL TEST RESULTS

SAMPLE NUMBER	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-049	3 ft RT	33+00	1.2 - 3.2	A-4(1)	22	9	26.3	29.7	21.9	22.1	97.6	94	45	-	-
SS-050	3 ft RT	33+00	3.2 - 5.2	A-7-6(28)	57	36	9.6	15.4	21.2	53.8	100	99	77	-	-
SS-051	3 ft RT	33+00	6.0 - 7.2	A-6(1)	28	14	13.0	52.0	8.3	26.8	99.8	98	37	-	-
SS-052	3 ft RT	33+00	7.5 - 9.2	A-2-4(0)	NP	NP	5.6	76.0	7.2	11.3	99.9	99	23	-	-



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	62

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

70 65 60 55 50 45 40 35 30 25 20 15

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

33 + 50.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	63

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

70 65 60 55 50 45 40 35 30 25 20 15

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

34+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	64

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

34+50.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	65

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

BT
DRY

35+00.00

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	66

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

35+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	67

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

36+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	68

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

36+50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	69

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

BT
DRY

37+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	70

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

37+50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	71

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM STIFF TO HARD SANDY SILT AND SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND, MOIST (U.C.P.)

38+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	72

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

38+50.00

—L—

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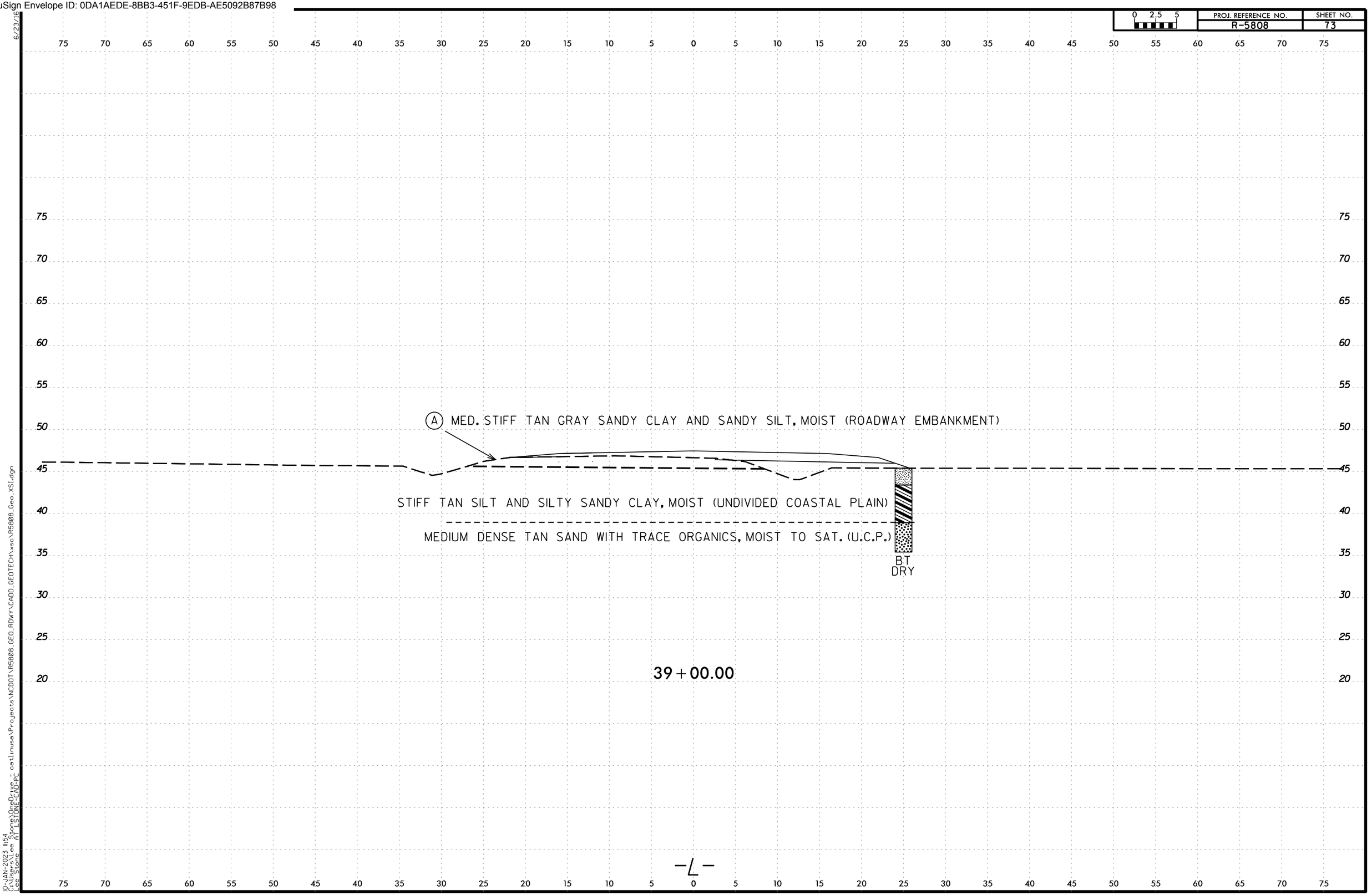
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	73



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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	74

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

39+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	75

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

40+00.00

-L-

6/23/16

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

40+50.00

-L-

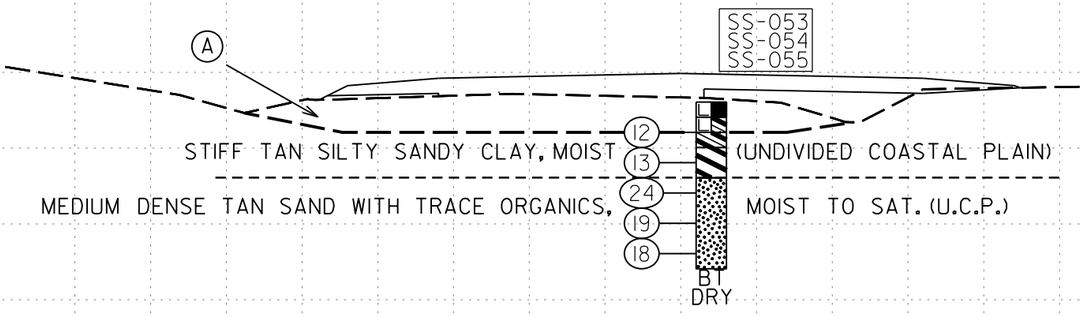
6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SOIL TEST RESULTS

SAMPLE NUMBER	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-053	2 ft RT	41+00	1.5 - 3.0	A-6(9)	37	21	20.9	23.7	14.8	40.5	99.1	97	56	-	-
SS-054	2 ft RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	20.7	28.7	45.3	99.8	99	80	-	-
SS-055	2 ft RT	41+00	5.0 - 7.0	A-2-4(0)	25	6	4.4	67.7	5.6	22.3	100	99	32	-	-

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)



41+00.00

75 70 65 60 55 50 45 40 35 30 25 20

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	78

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓐ

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

41+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	79

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65 60 55 50 45 40 35 30 25 20 15 10

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

(A)

STIFF TAN SILTY SANDY CLAY, MOIST (UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

42+00.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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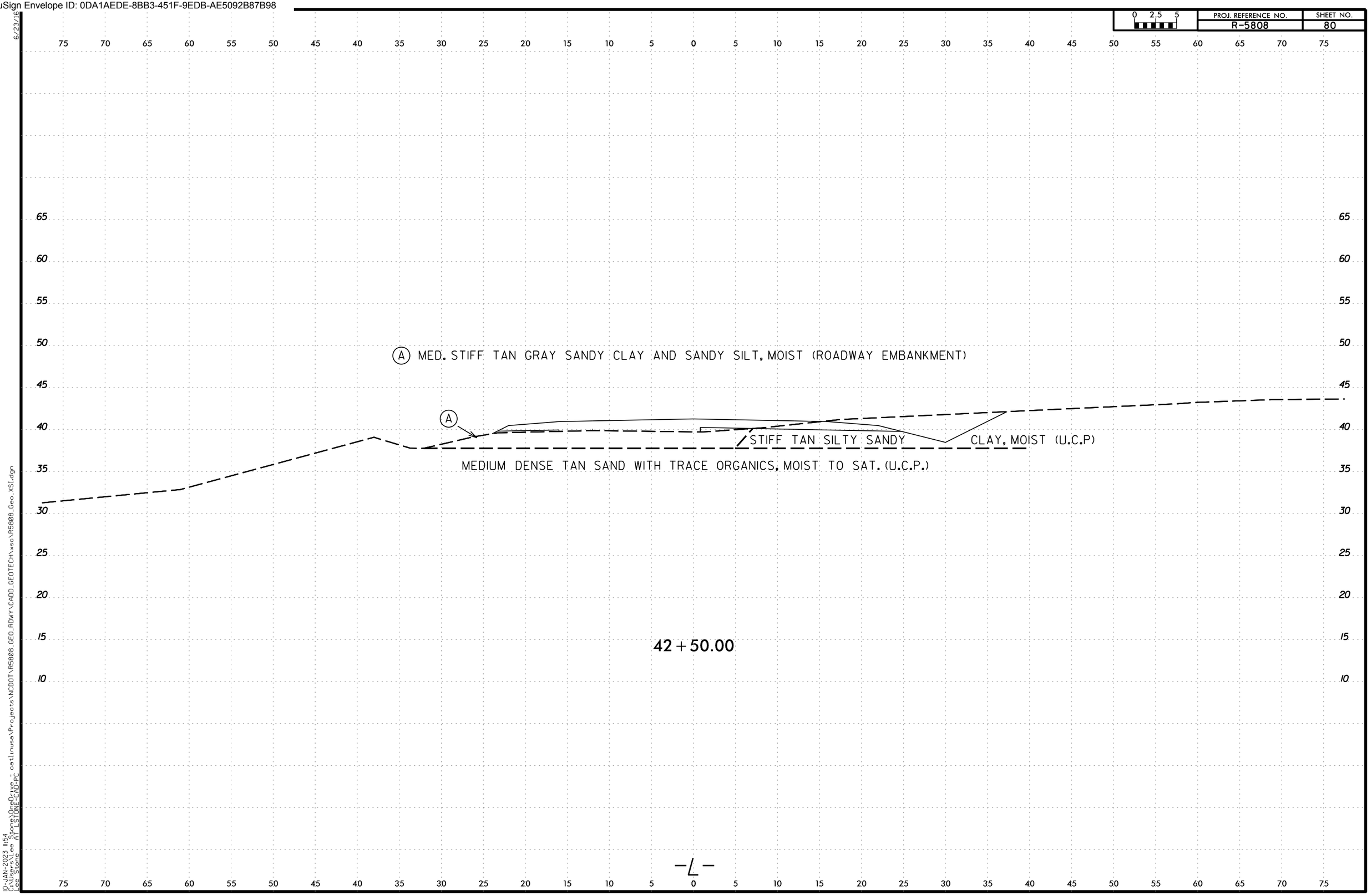
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	80



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	81

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70 65 60 55 50 45 40 35 30 25 20 15

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

(B) STIFF TAN SILTY SANDY CLAY, MOIST (U.C.P)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

MEDIUM MOIST

DENSE TAN TO SAT.

SAND WITH TRACE ORGANICS, (U.C.P.)

BT DRY

43+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	82

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

70 65 60 55 50 45 40 35 30 25 20 15

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

STIFF TAN SILTY SANDY CLAY, MOIST (U.C.P.)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

A

43 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	83

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65 60 55 50 45 40 35 30 25 20 15 10

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓐ

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

44+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	84

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

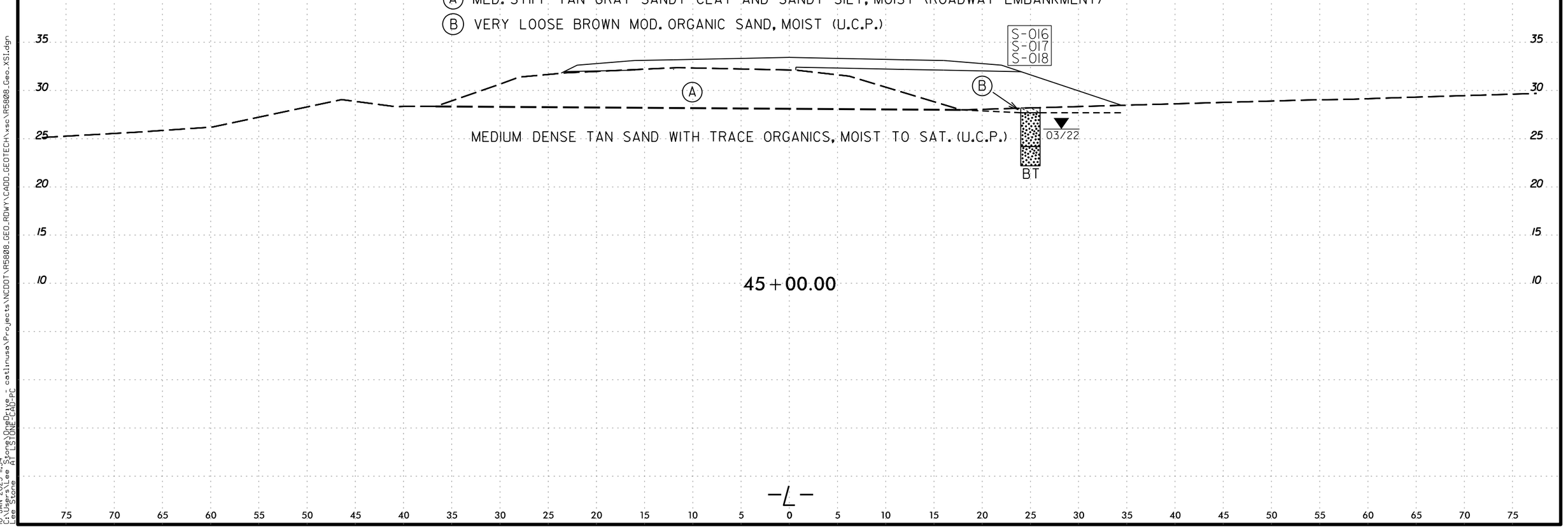
MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

44+50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65 60 55 50 45 40 35 30 25 20 15 10

SOIL TEST RESULTS															
SAMPLE NUMBER	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		
S-016	25 ft RT	45+00	0.0 - 0.5	A-2-4(0)	NP	NP	18.6	52.5	25.2	3.7	99.1	97	32	73	6.7
S-017	25 ft RT	45+00	0.5 - 4.0	A-2-4(0)	NP	NP	25.8	56.5	8.0	9.8	99.9	94	19	-	1.7
S-018	25 ft RT	45+00	4.0 - 4.5	A-2-4(0)	NP	NP	29.2	54.8	6.7	9.4	100	93	18	-	-



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	86

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

60 55 50 45 40 35 30 25 20 15 10 5

Ⓑ VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓑ

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

45+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	87

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

46+00.00

—L—

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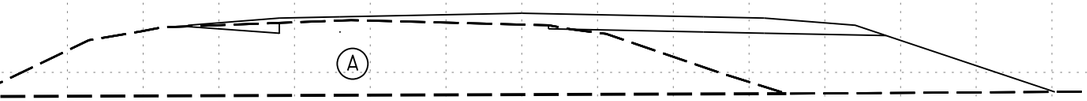
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)



VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS, MOIST TO SAT. (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

46+50.00

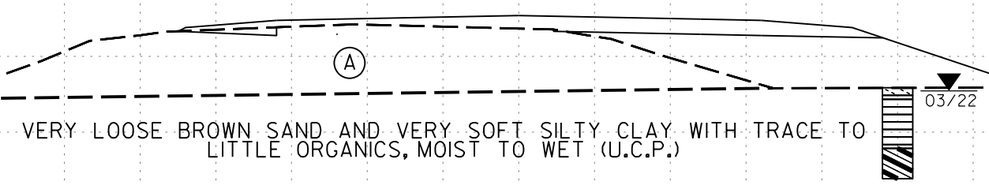
—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	89

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

55 50 45 40 35 30 25 20 15 10 5 0

(A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)



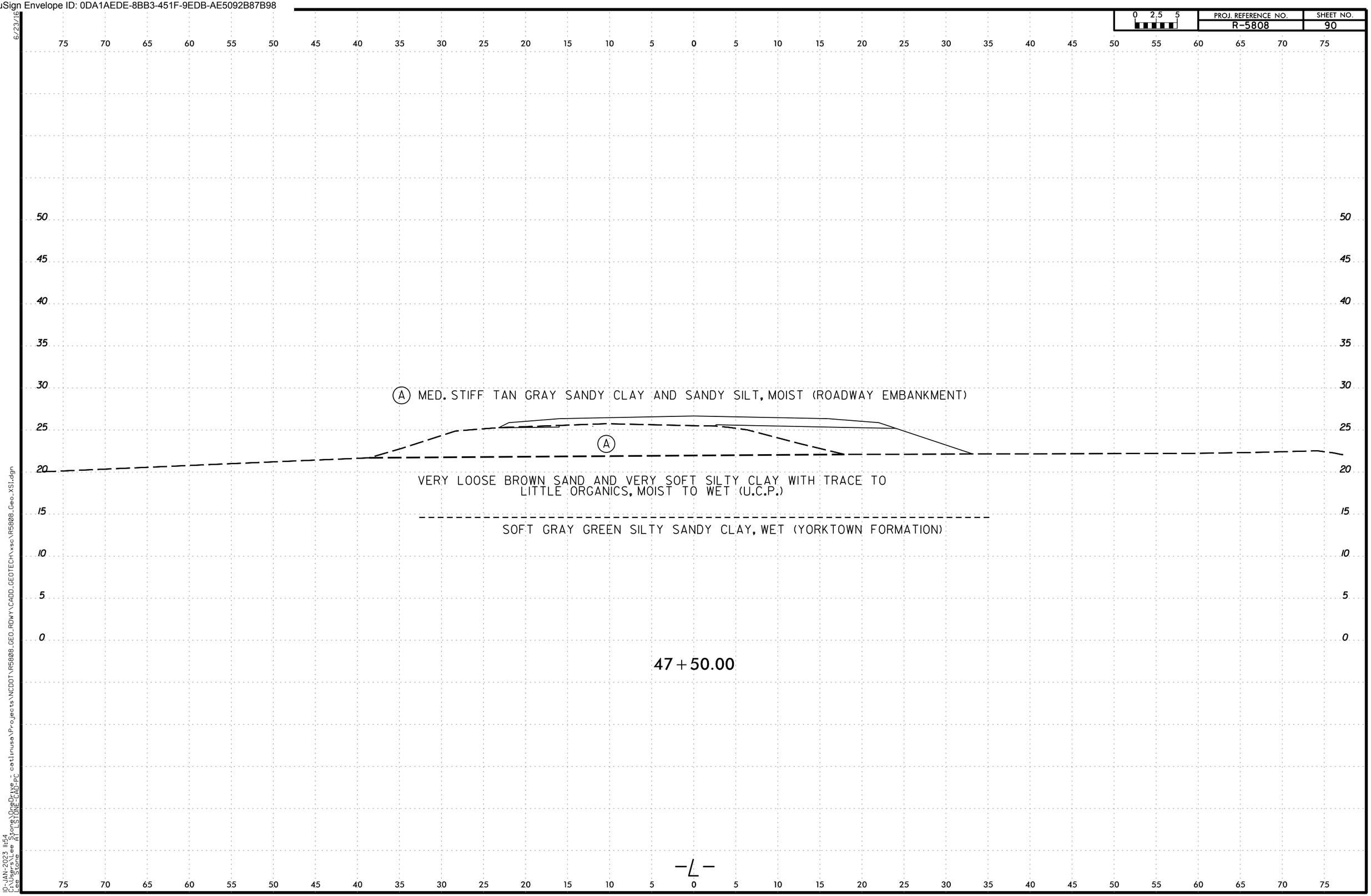
VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

47+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	90



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	91

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

48+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	92

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

48+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	93

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

BT

49+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	94

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

49+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	95

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50
45
40
35
30
25
20
15
10
5
0

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

50+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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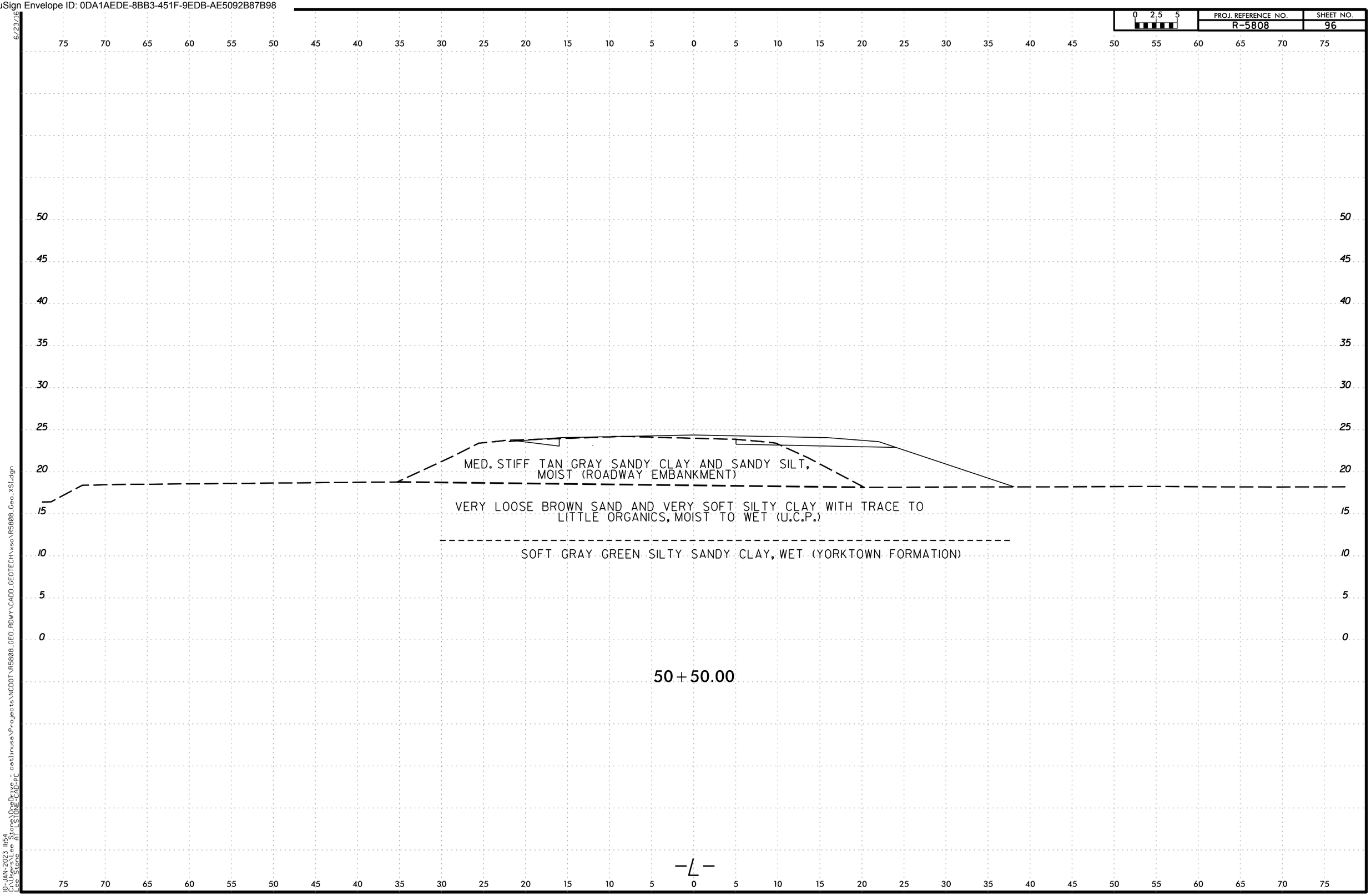
6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	96



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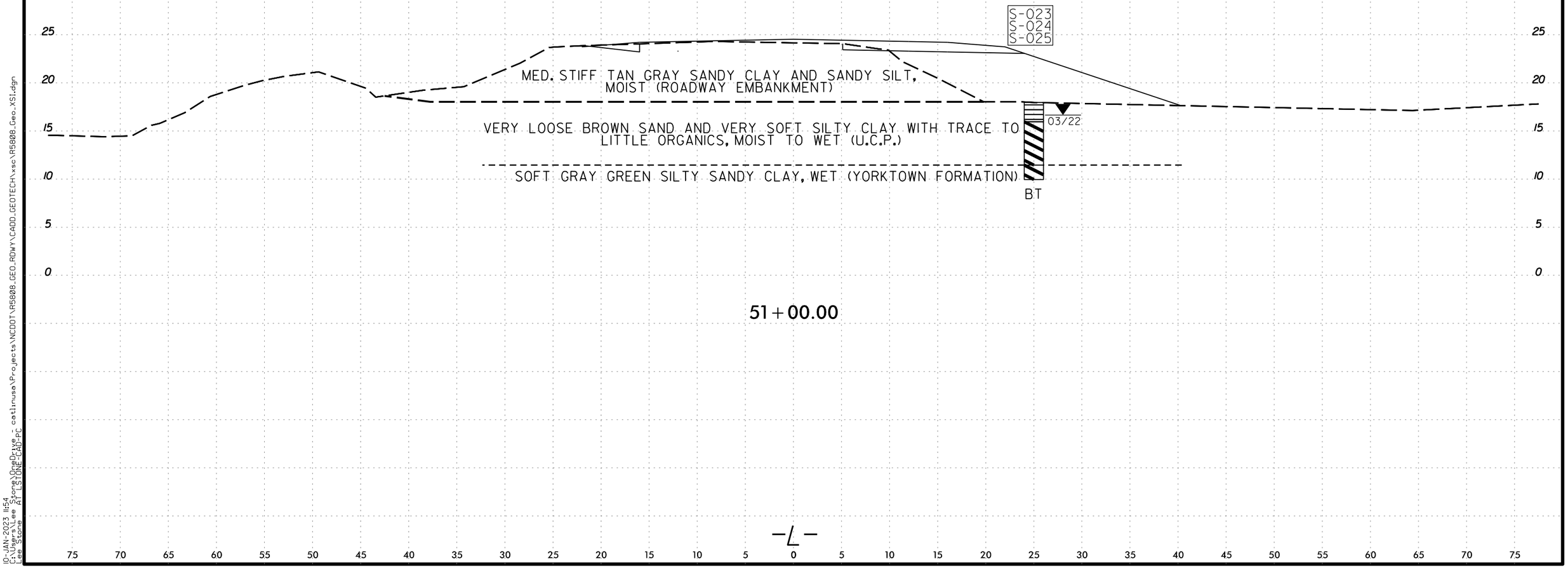
Lee Stone AT LEISTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-023	25 ft RT	51+00	0.0 - 2.0	A-7-6(20)	49	21	2.8	12.5	40.9	43.8	99.9	99	86	52	9.0
S-024	25 ft RT	51+00	2.0 - 6.5	A-7-6(32)	55	31	1.3	6.6	26.1	66.0	99.9	100	93	43	-
S-025	25 ft RT	51+00	6.5 - 8.0	A-7-6(24)	45	26	0.9	17.3	31.1	50.7	99.9	100	89	-	-



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	98

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

51 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	99

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN SAND AND VERY SOFT SILTY CLAY WITH TRACE TO LITTLE ORGANICS, MOIST TO WET (U.C.P.)

SOFT GRAY GREEN SILTY SANDY CLAY, WET (YORKTOWN FORMATION)

52+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	100

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

52+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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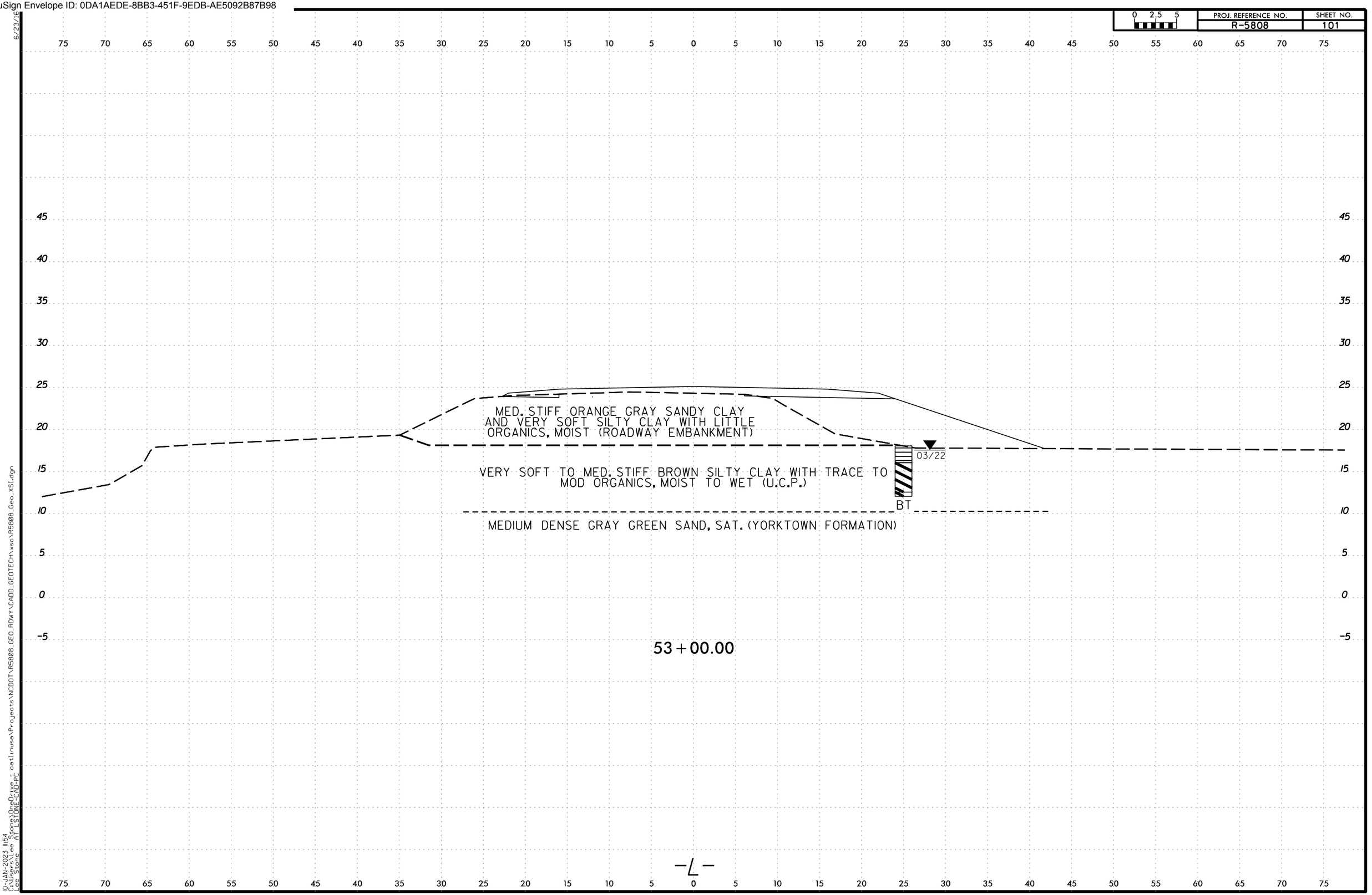
	R-5808	101



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	102

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

53+50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	103

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

54+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	104

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

54+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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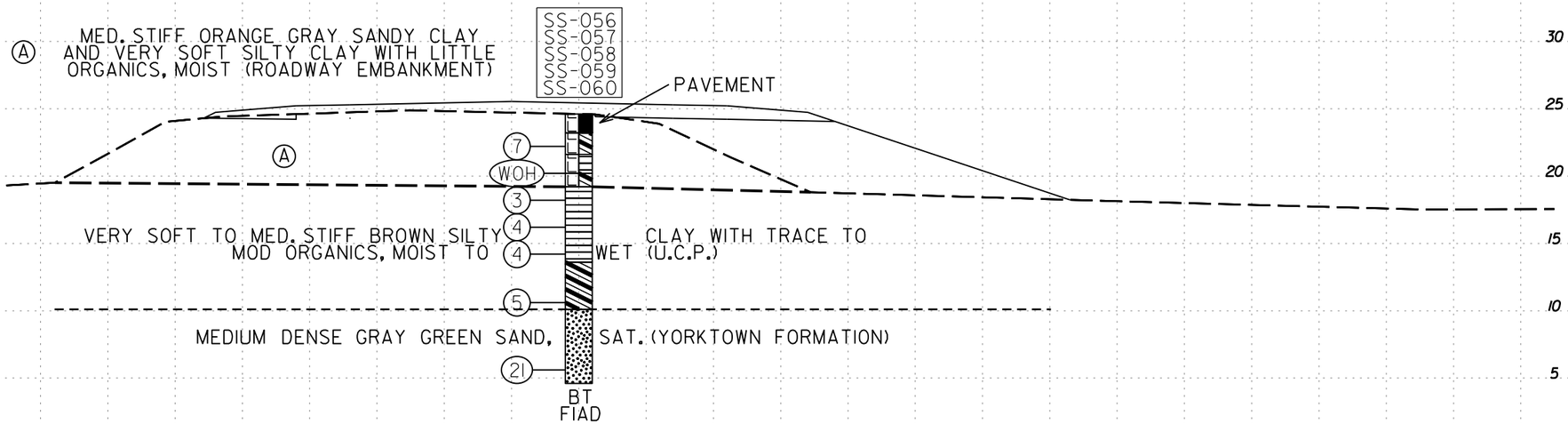
Lee Stone AT LSTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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-056	25 ft RT	55+00	3.4 - 4.4	-	49	20	-	-	-	-	NEM	NEM	NEM	-	11.8
SS-057	25 ft RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	39.5	99.9	100	75	-	-
SS-058	25 ft RT	55+00	5.4 - 7.4	A-7-6(11)	44	19	7.8	29.2	28.0	35.0	98.3	97	66	-	8.3
SS-059	25 ft RT	55+00	9.4 - 11.0	A-6(10)	40	15	4.6	28.6	31.9	34.9	93.3	99	70	-	8.0
SS-060	25 ft RT	55+00	18.5 - 20.0	A-2-4(0)	NP	NP	29.7	60.1	5.2	5.0	100	96	14	-	-



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	106

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

55+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	107

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

56+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	108

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

56+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	109

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

03/22

BT

57+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	110

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

57+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	111

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

58+00.00

—L—

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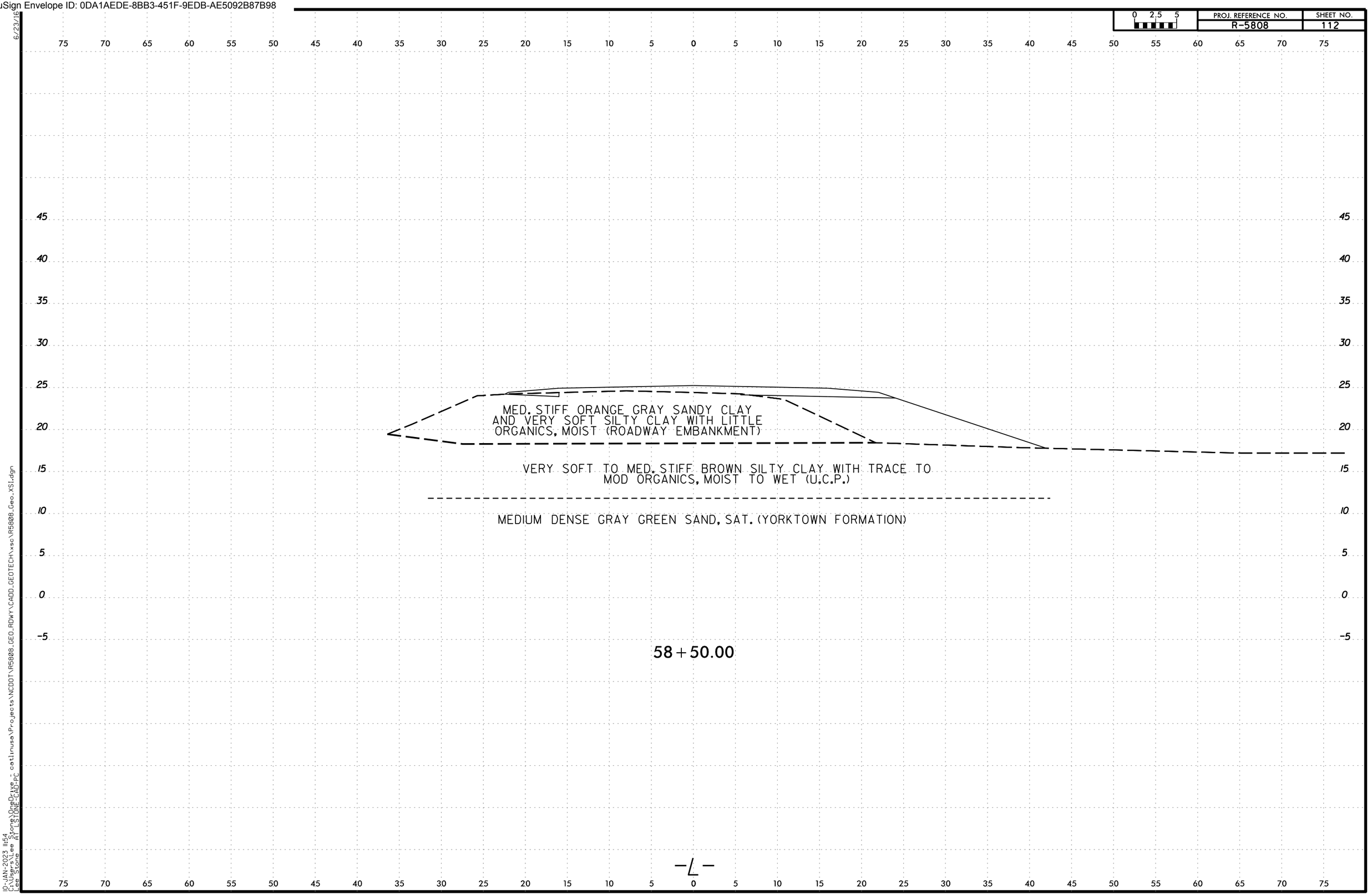
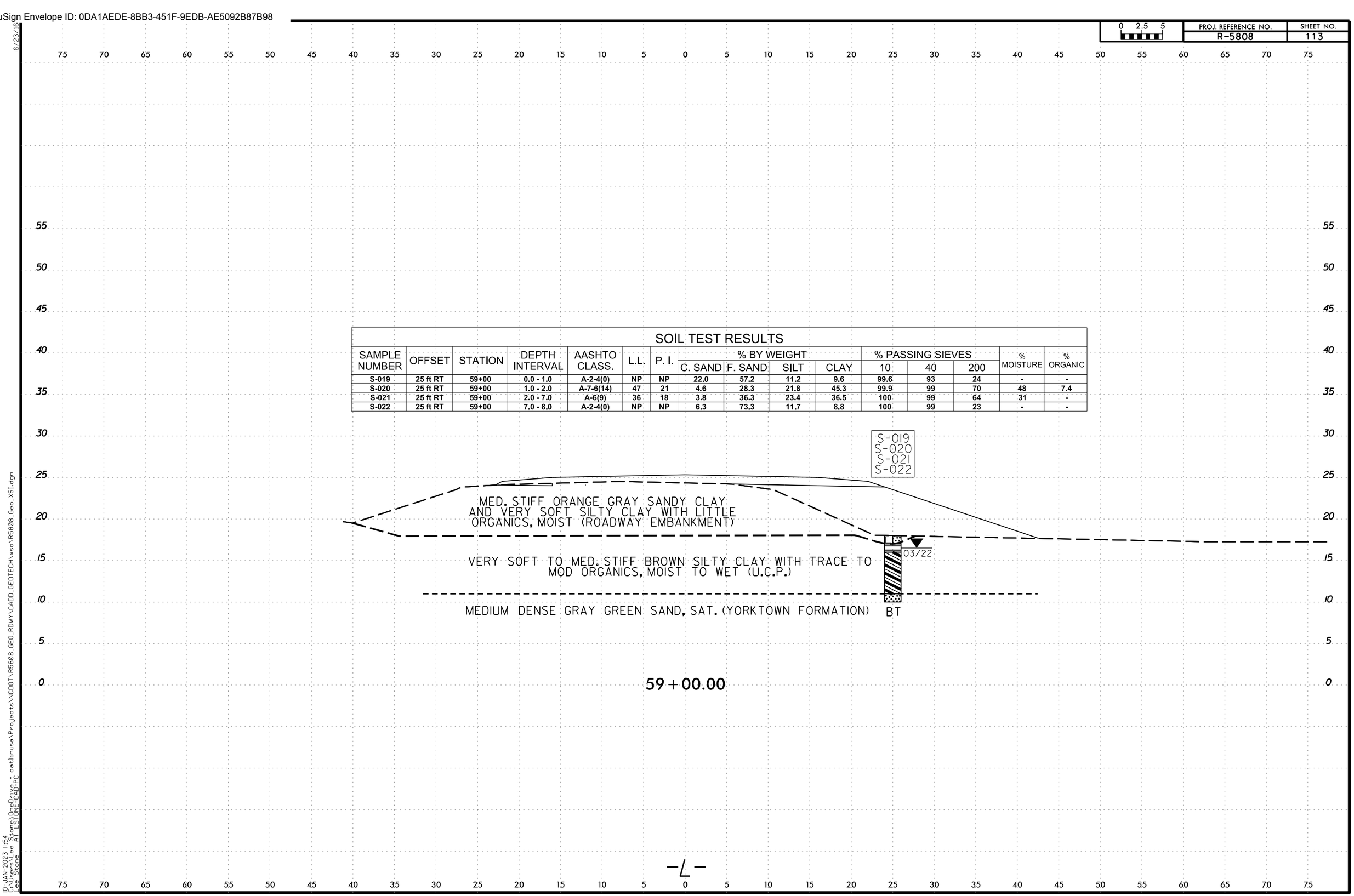
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	112



SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-019	25 ft RT	59+00	0.0 - 1.0	A-2-4(0)	NP	NP	22.0	57.2	11.2	9.6	99.6	93	24	-	-
S-020	25 ft RT	59+00	1.0 - 2.0	A-7-6(14)	47	21	4.6	28.3	21.8	45.3	99.9	99	70	48	7.4
S-021	25 ft RT	59+00	2.0 - 7.0	A-6(9)	36	18	3.8	36.3	23.4	36.5	100	99	64	31	-
S-022	25 ft RT	59+00	7.0 - 8.0	A-2-4(0)	NP	NP	6.3	73.3	11.7	8.8	100	99	23	-	-



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	114

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50
45
40
35
30
25
20
15
10
5
0
-5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

59+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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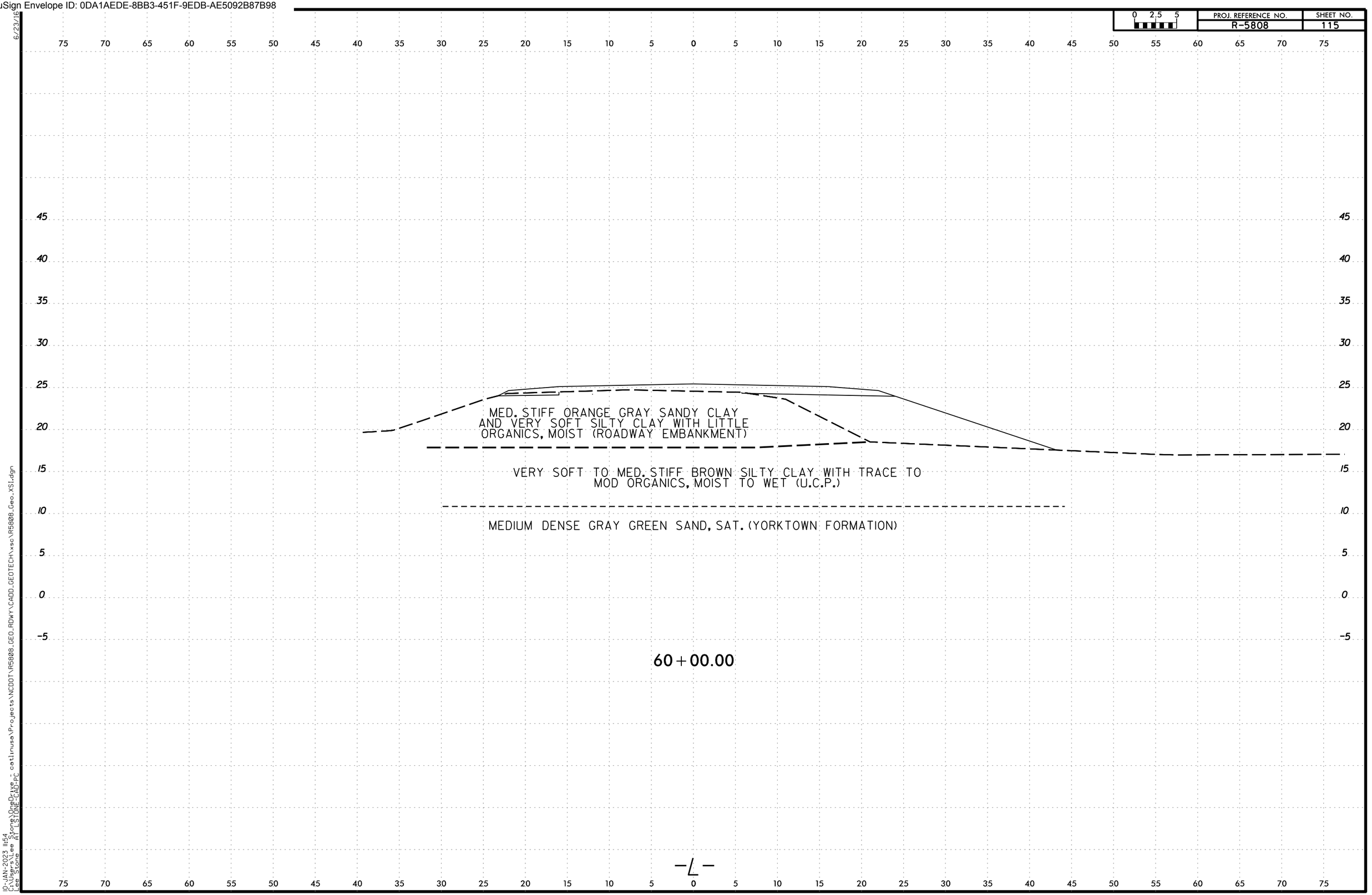
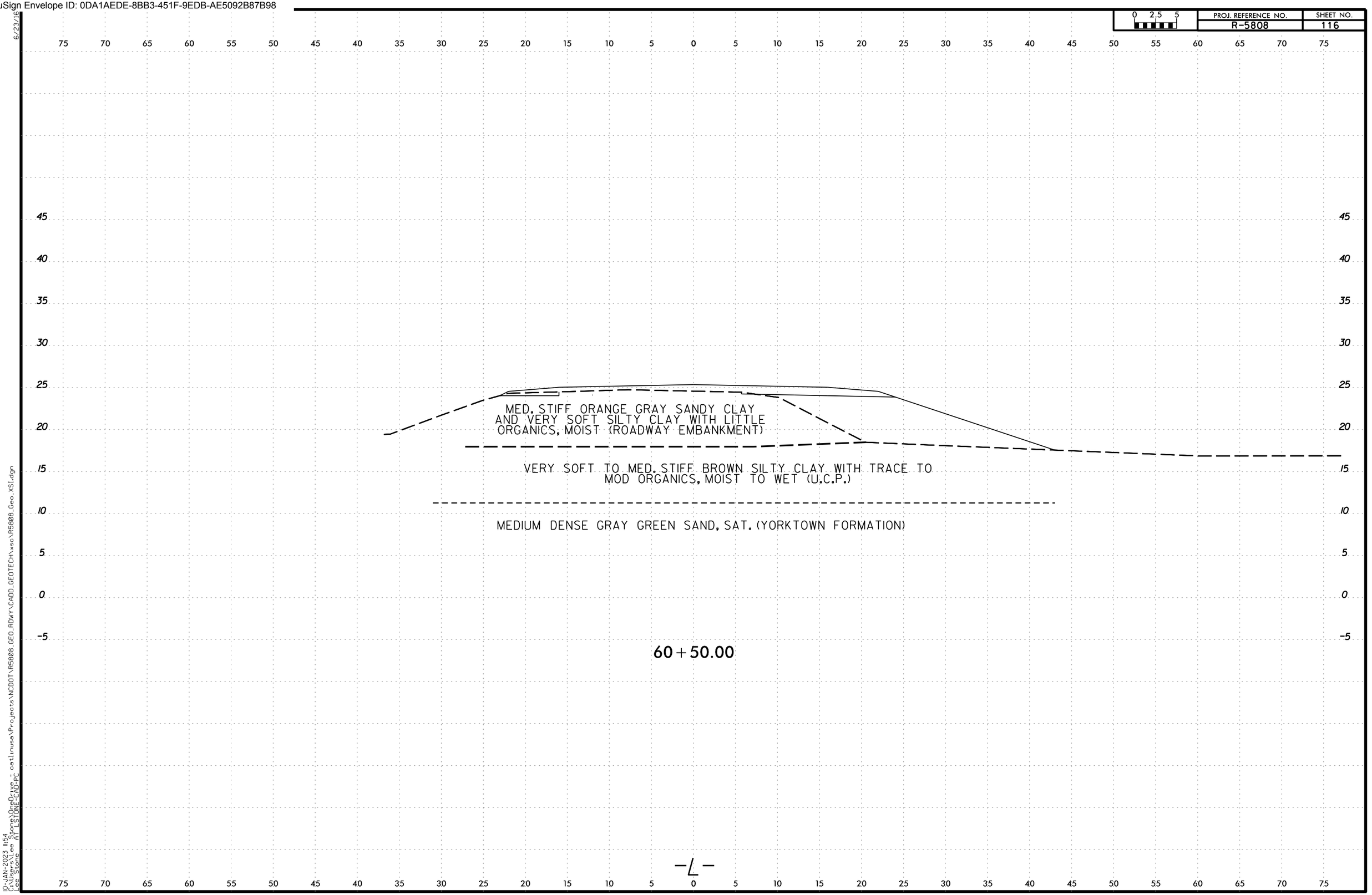
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	115



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	116



6/23/16

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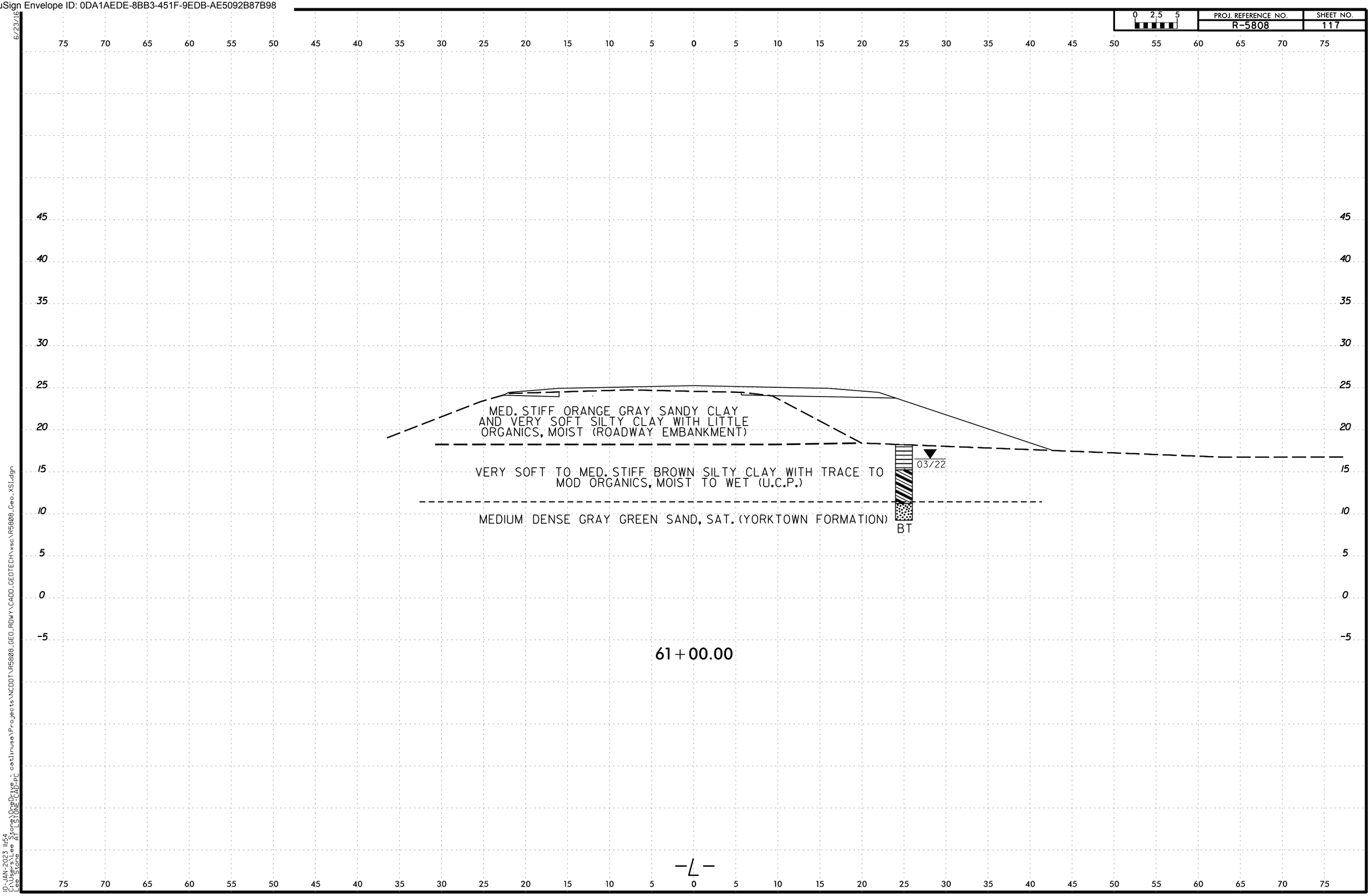
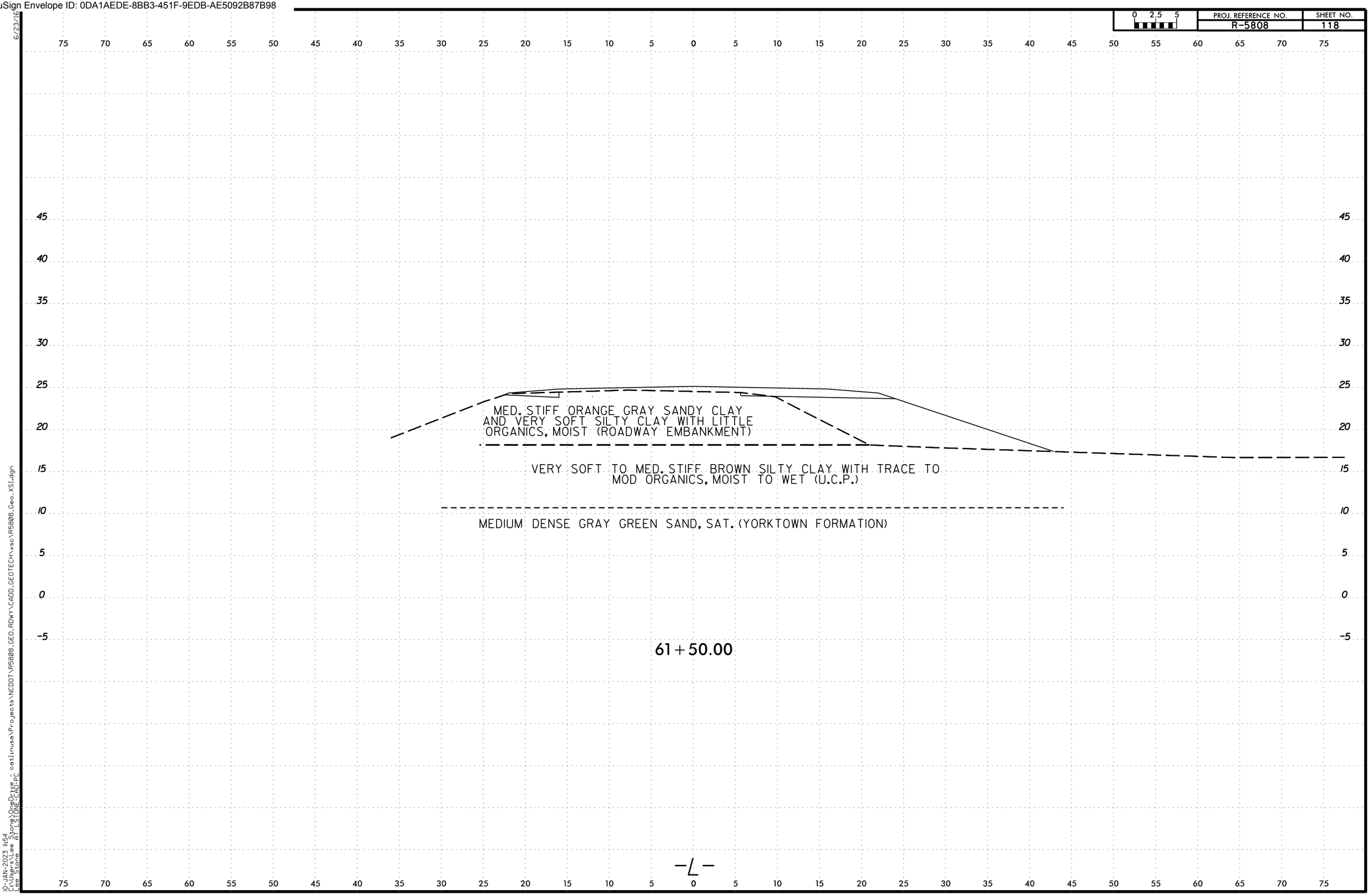
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	117



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	118



6/23/16

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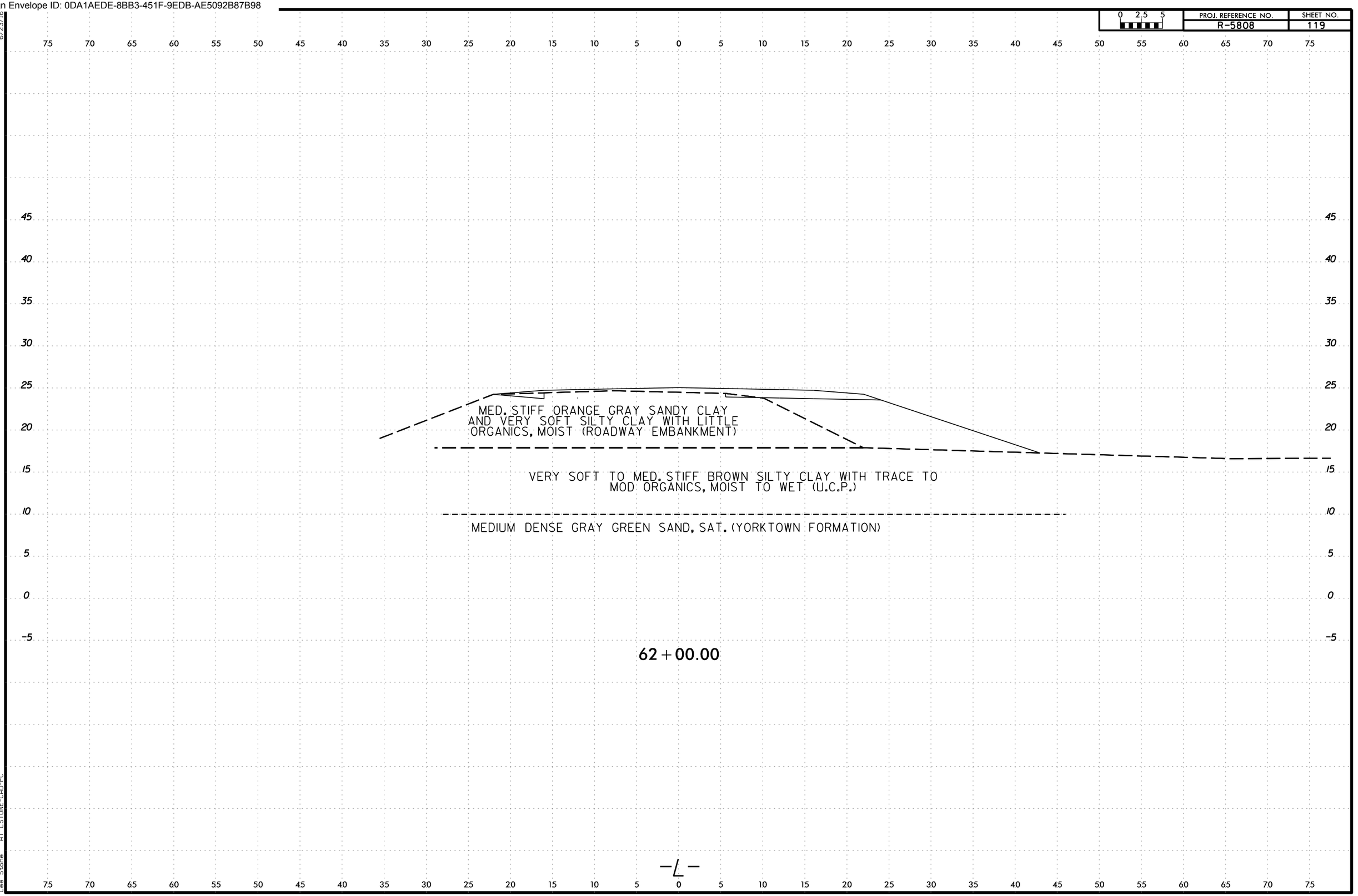
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	119



6/23/16

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Lee Stone AT LSTONE_CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	120

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

62+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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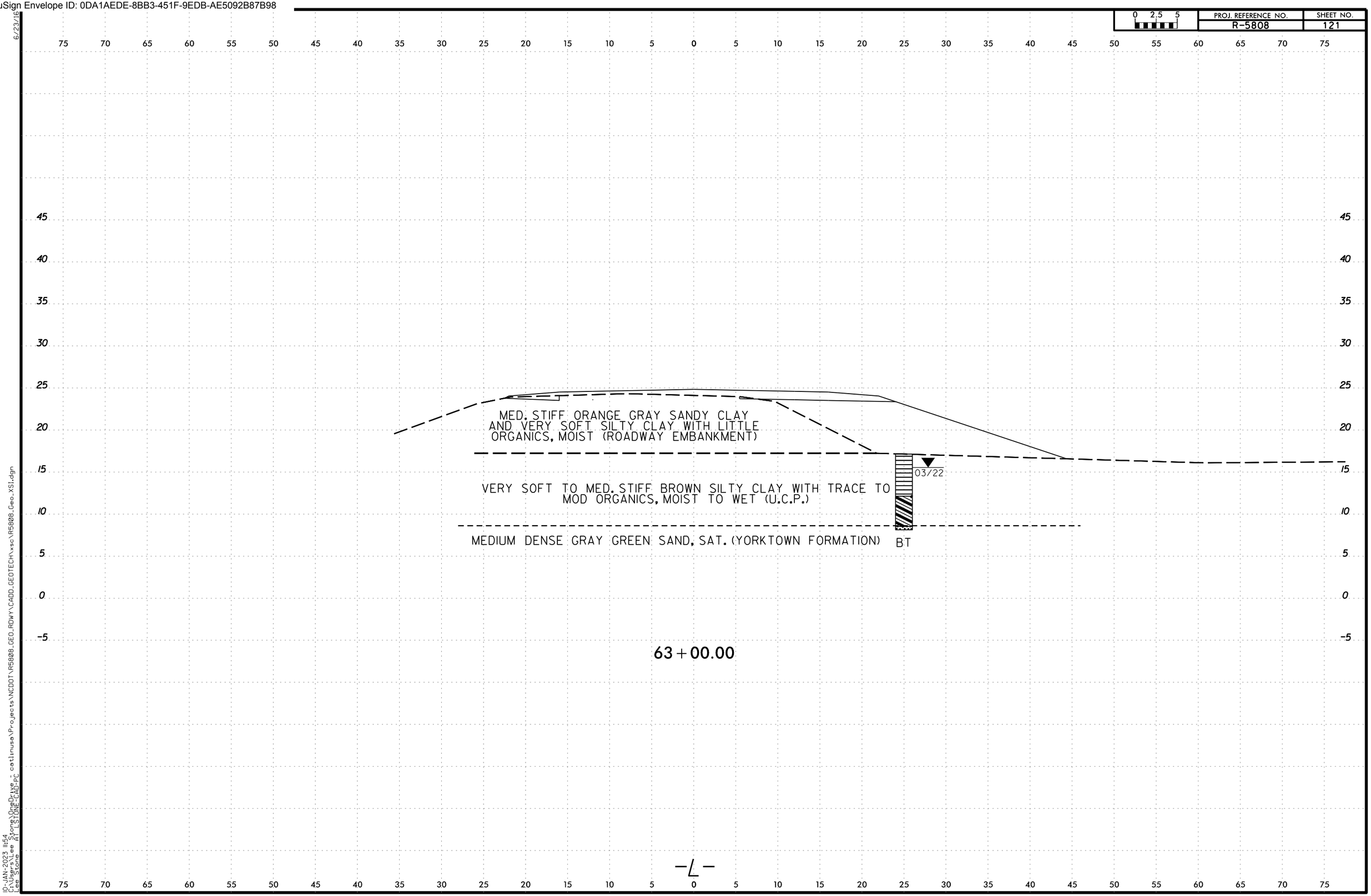
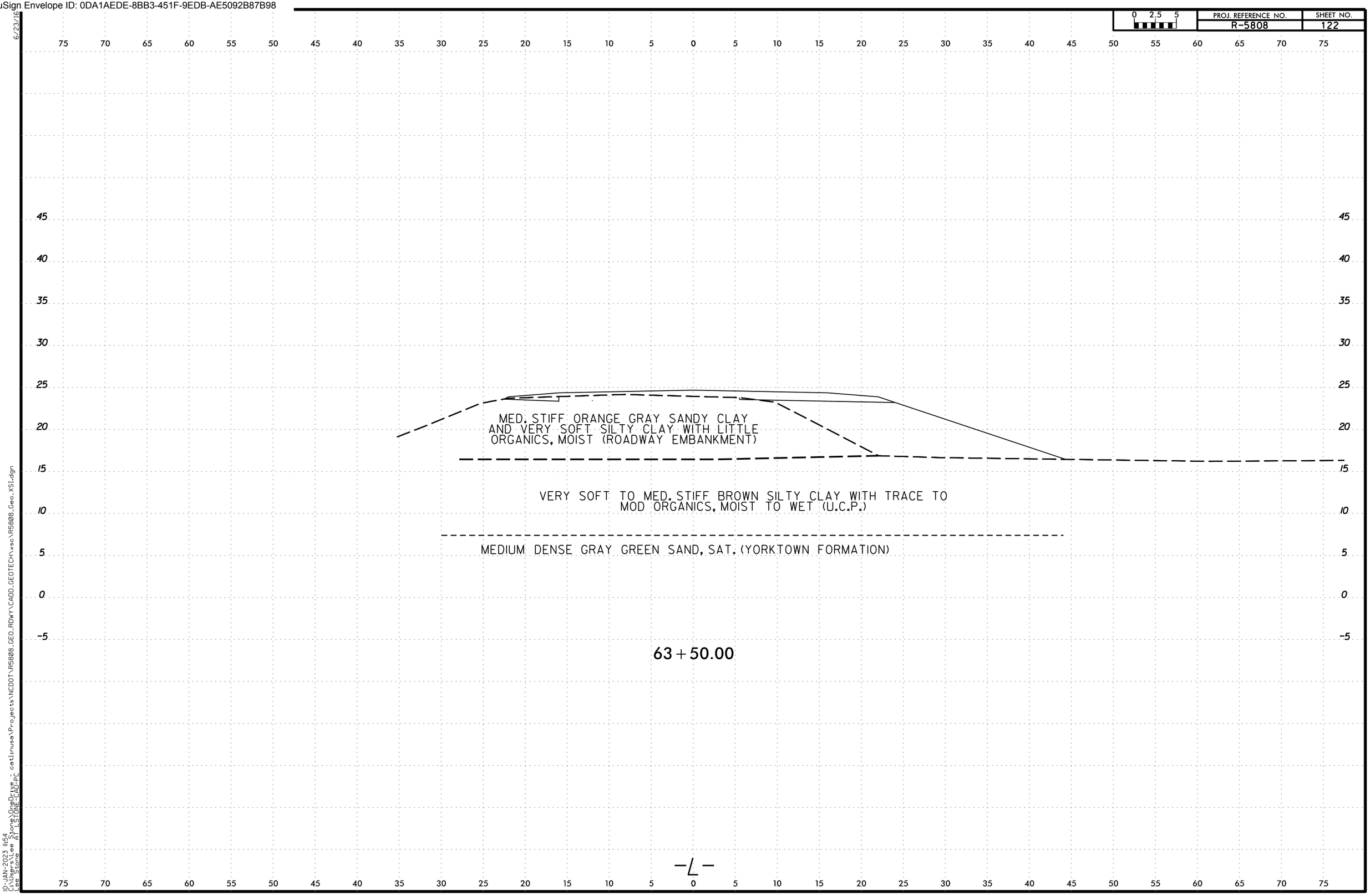
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	121



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	122



6/23/16

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	123

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY CLAY
AND VERY SOFT SILTY CLAY WITH LITTLE
ORGANICS, MOIST (ROADWAY EMBANKMENT)

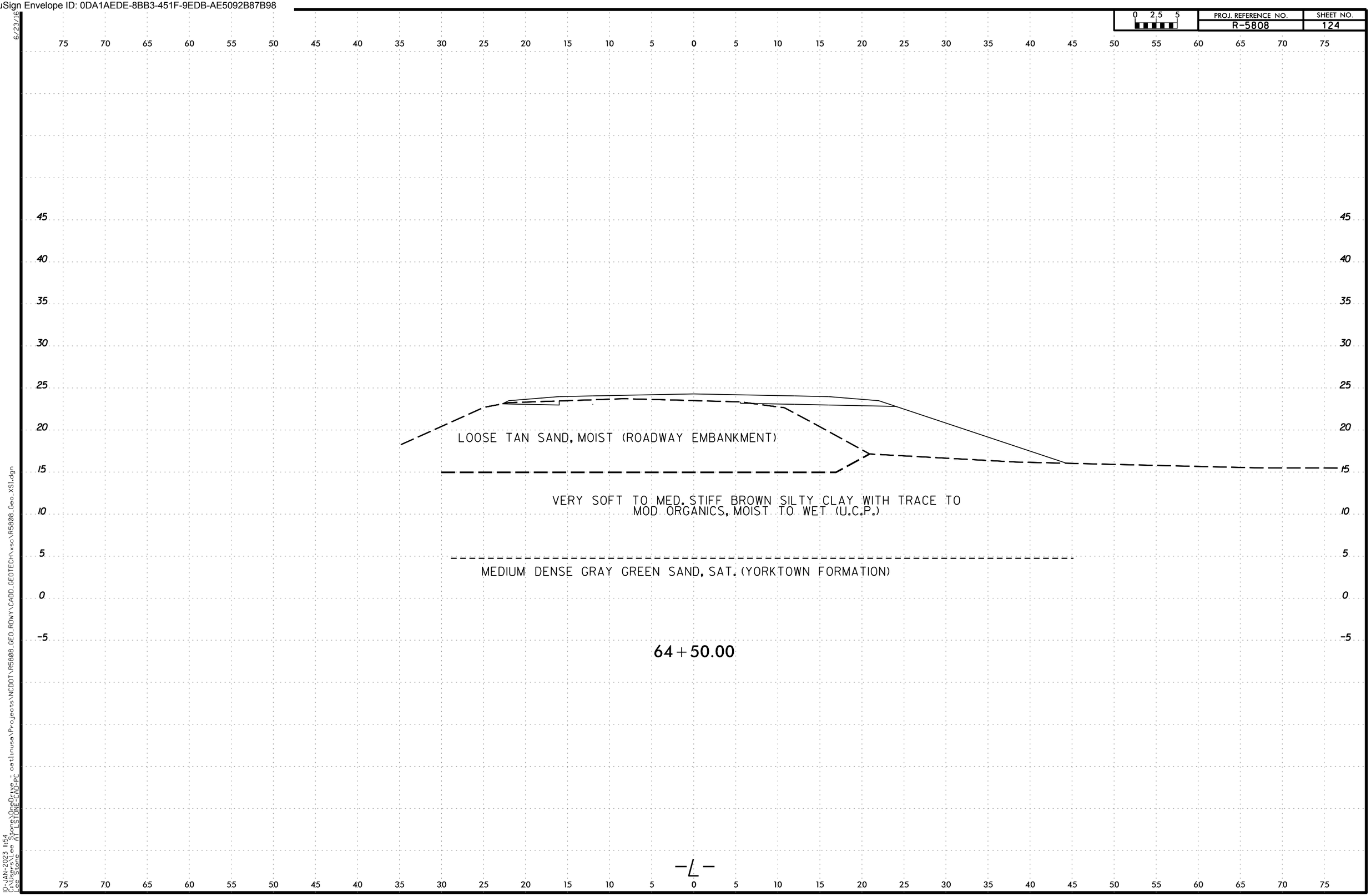
VERY SOFT TO MED. STIFF BROWN SILTY CLAY WITH TRACE TO
MOD ORGANICS, MOIST TO WET (U.C.P.)

MEDIUM DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

64+00.00

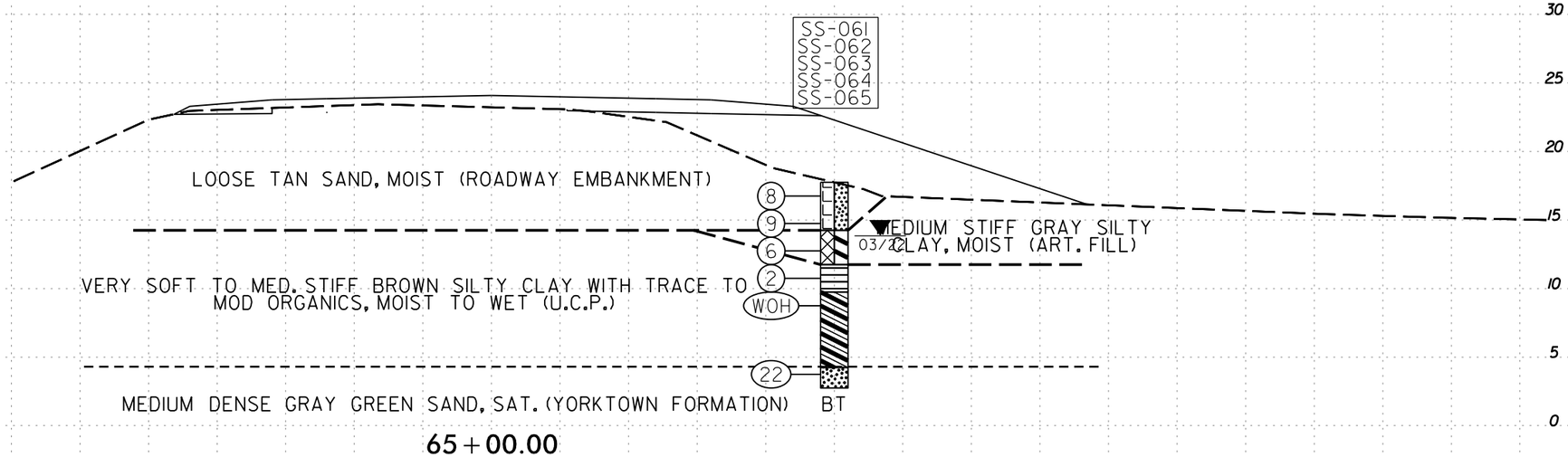
-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	124



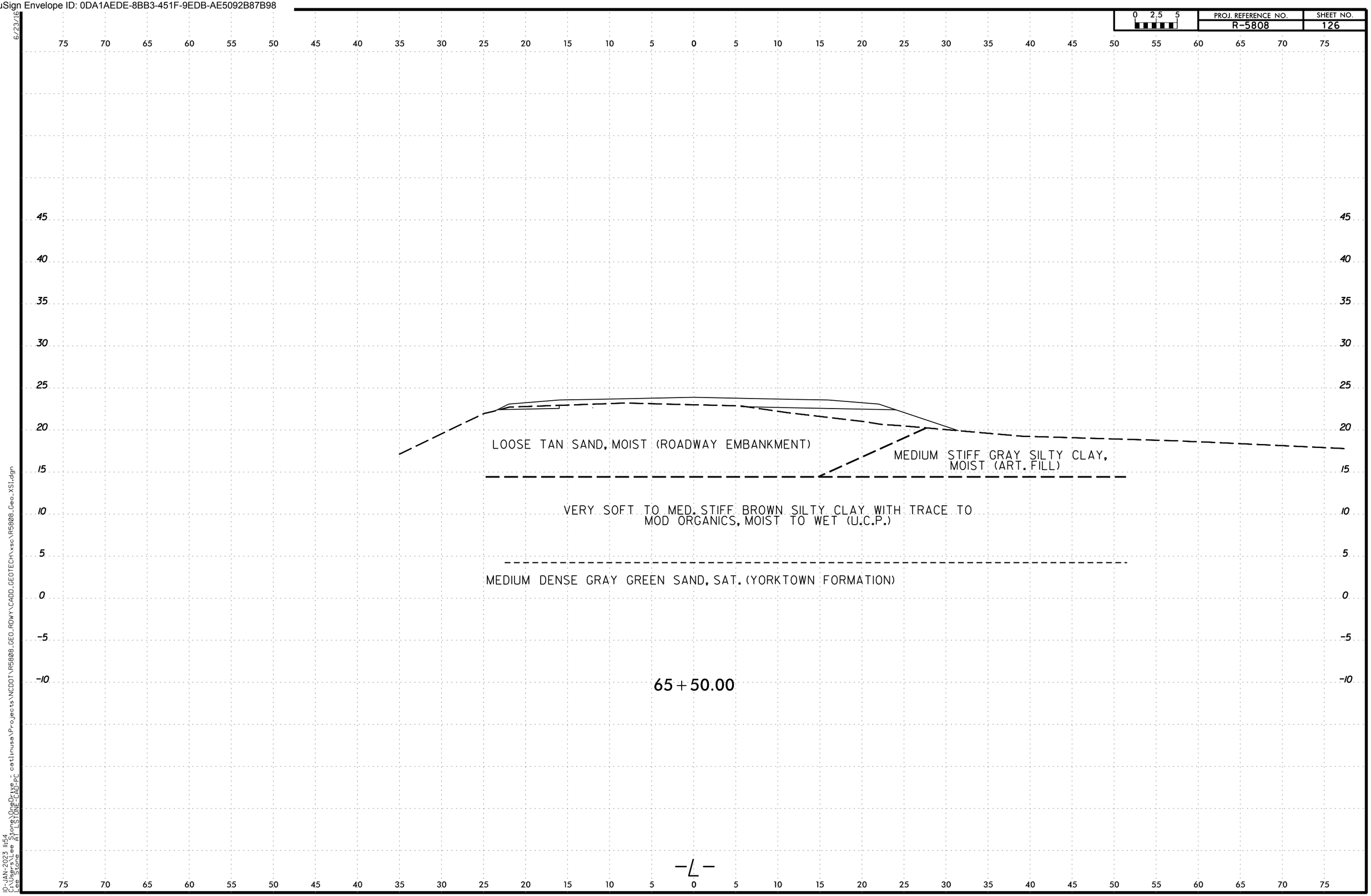
SOIL TEST RESULTS

SAMPLE NUMBER	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-061	25 ft RT	65+00	0.0 - 2.0	A-2-4(0)	NP	NP	33.4	57.6	3.8	5.2	99.6	90	11	-	-
SS-062	25 ft RT	65+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.9	50.7	12.2	12.2	99.2	93	29	-	-
SS-063	25 ft RT	65+00	6.0 - 8.0	A-7-6(8)	45	16	16.1	27.3	34.2	22.4	82.8	95	59	-	12.8
SS-064	25 ft RT	65+00	8.0 - 10.0	A-6(11)	37	18	5.2	29.0	36.8	29.0	100	99	70	-	4.4
SS-065	25 ft RT	65+00	13.5 - 15.0	A-2-4(0)	NP	NP	32.2	60.5	3.1	4.2	99.8	96	11	-	-



65+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	126



6/23/16

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Lee Stone AT LEISTONE-CAD-PC

6/23/16

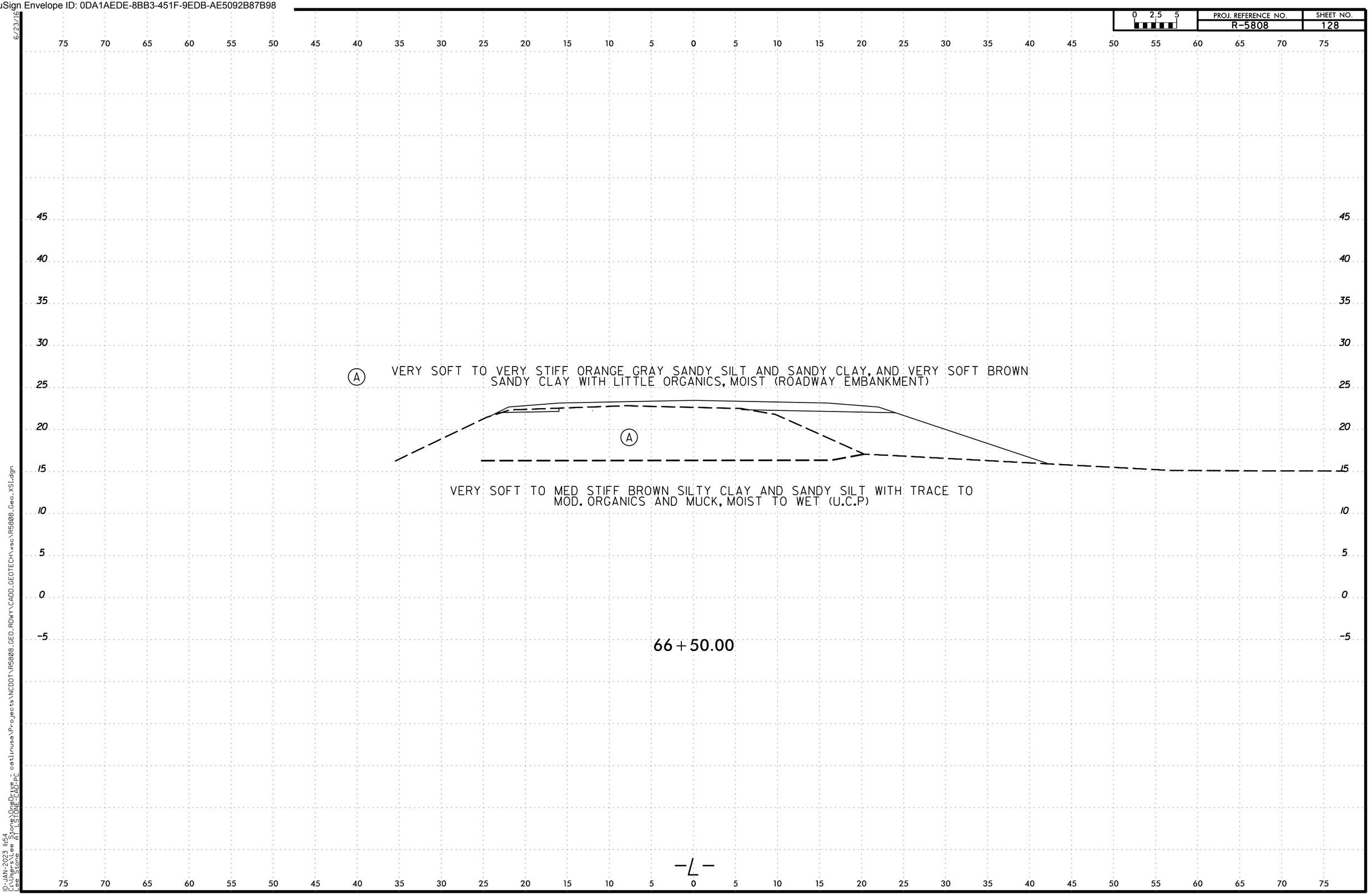
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	127

LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

66+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	128



6/23/16

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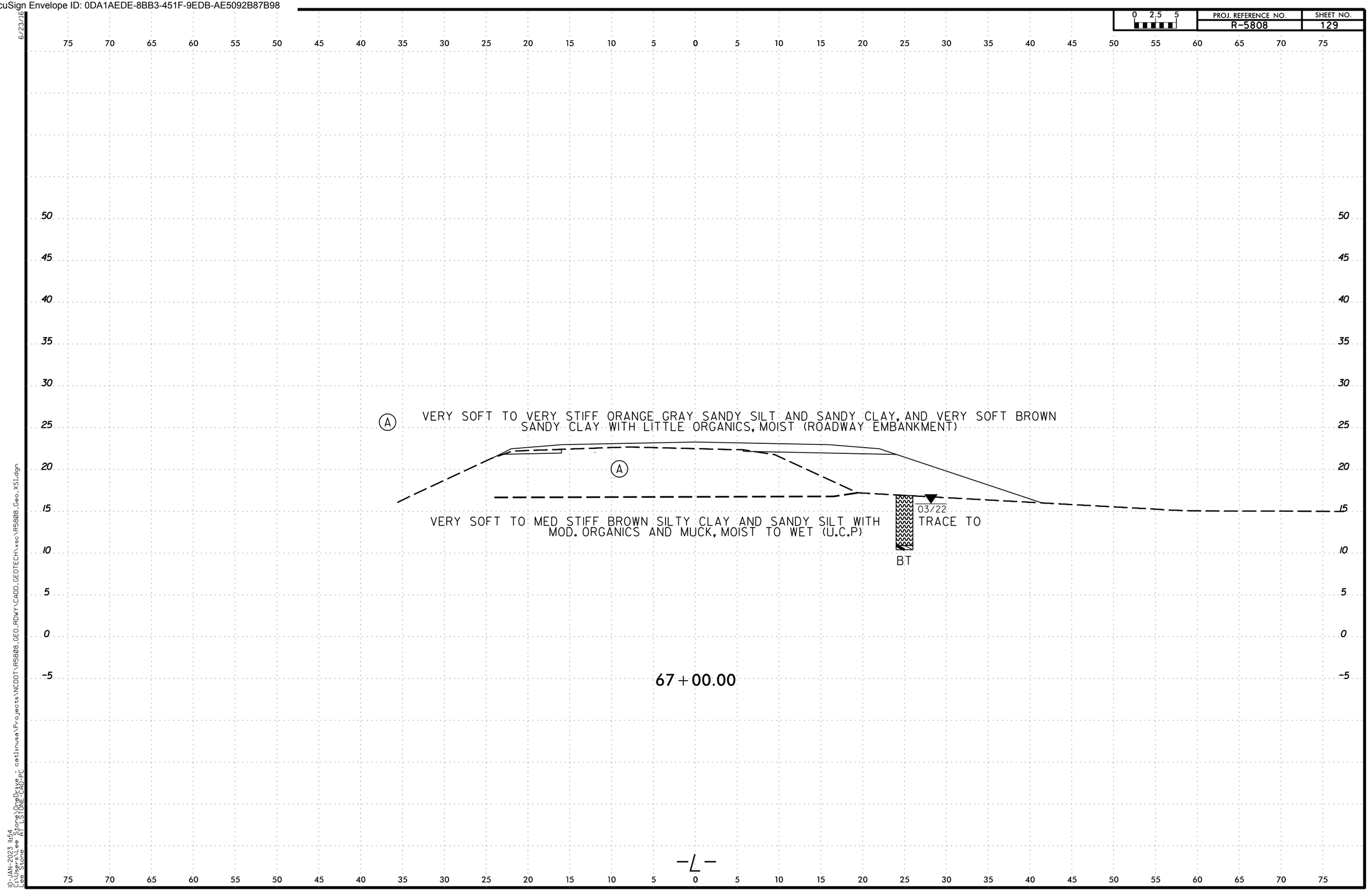
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	129

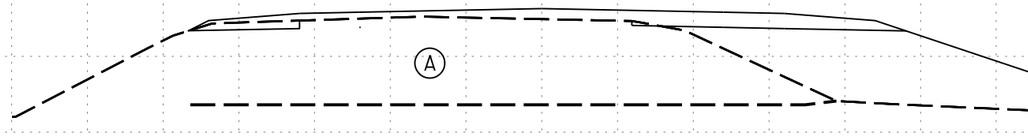


0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	130

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

67+50.00

-L-

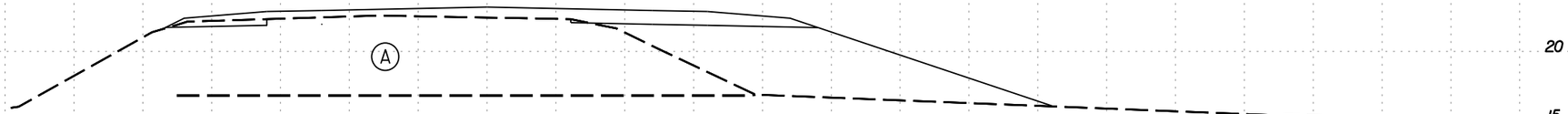
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	131

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

68+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

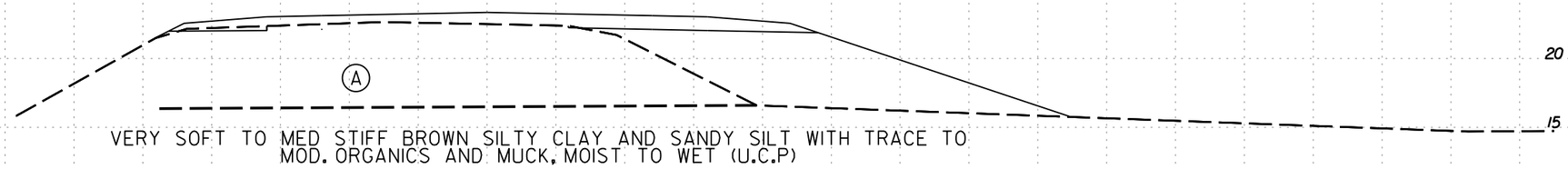
0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	132

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

68+50.00

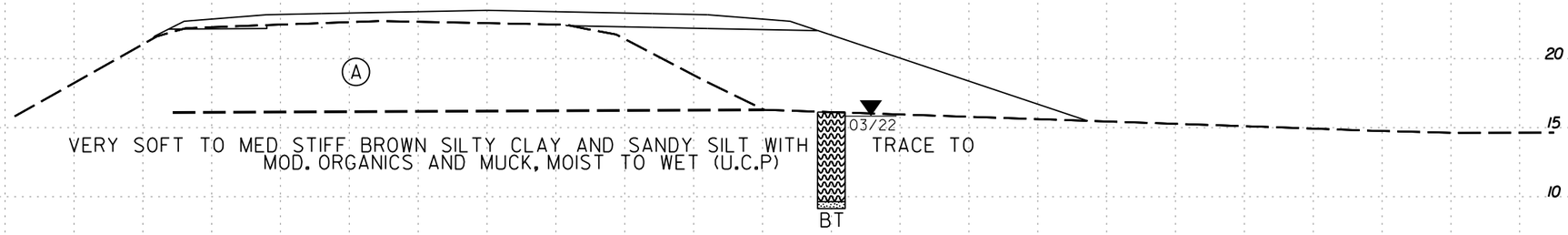
—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	133

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

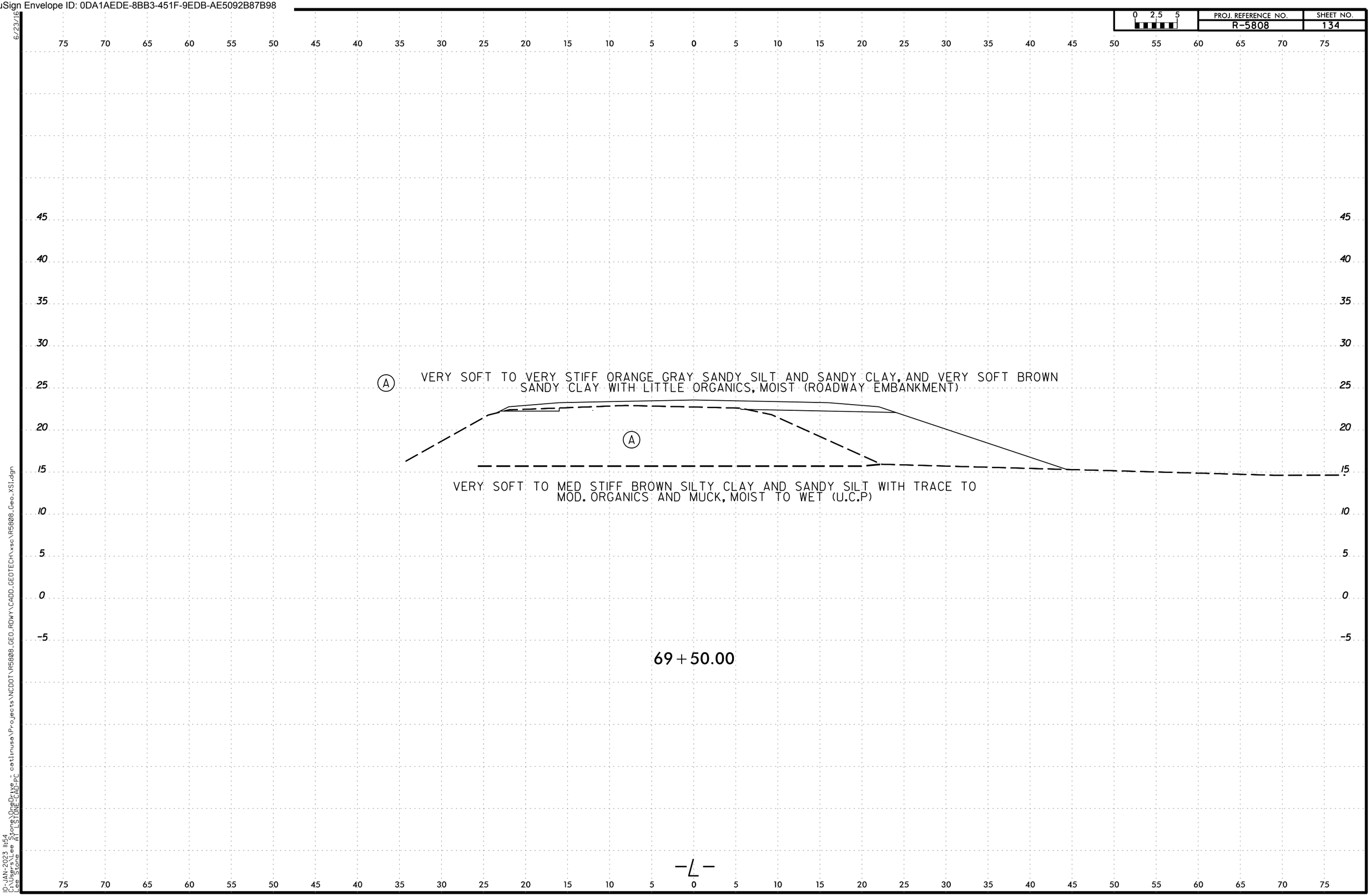


VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

69+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	134

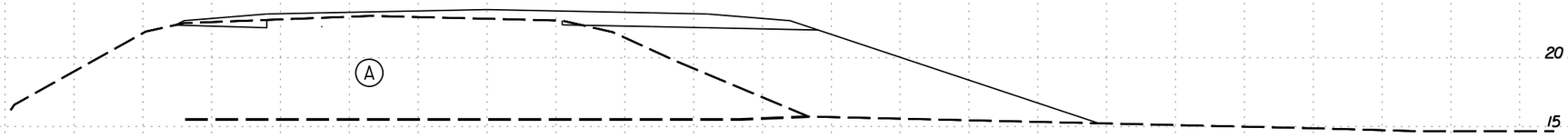


0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	135

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

70+00.00

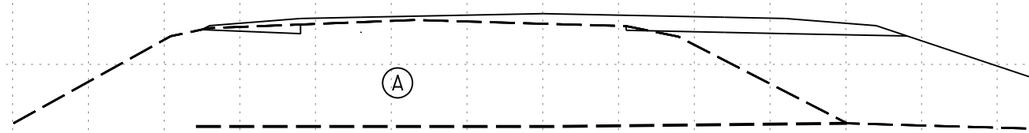
-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	136

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

70+50.00

—℄—

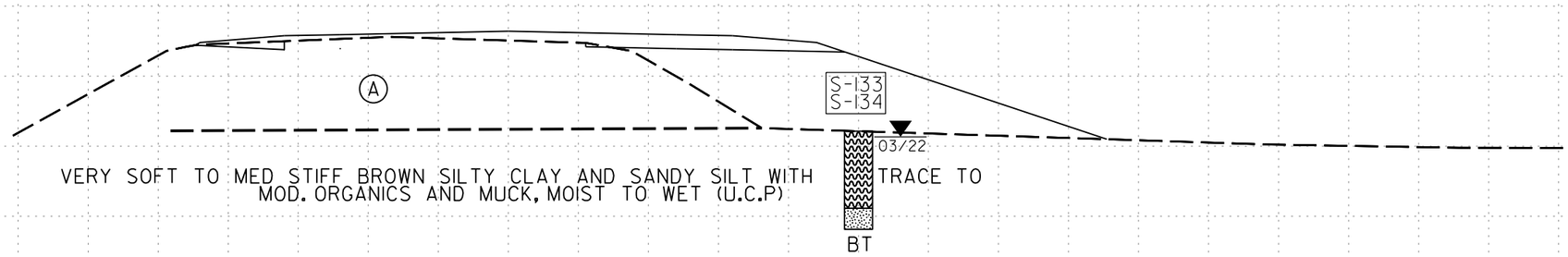
6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	137

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-133	25 ft RT	71+00	0.0 - 5.5	A-2-4(0)	NP	NP	21.7	46.3	26.3	5.7	63.9	95	34	123	14.8
S-134	25 ft RT	71+00	5.5 - 7.0	A-4(0)	22	7	13.0	48.5	19.1	19.4	99.4	98	43	-	-

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



71+00.00

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Lee Stone AT LSTONE_CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	138

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

71+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	139

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

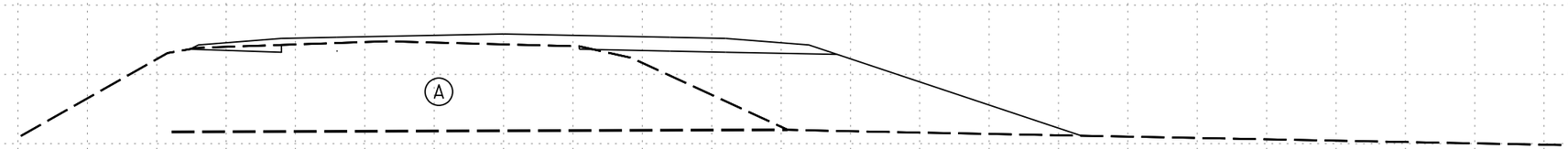
72+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	140

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

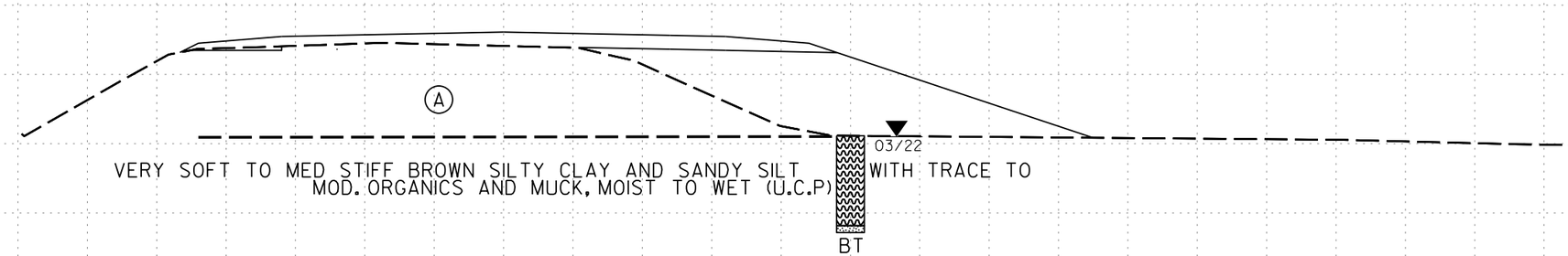
72 + 50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



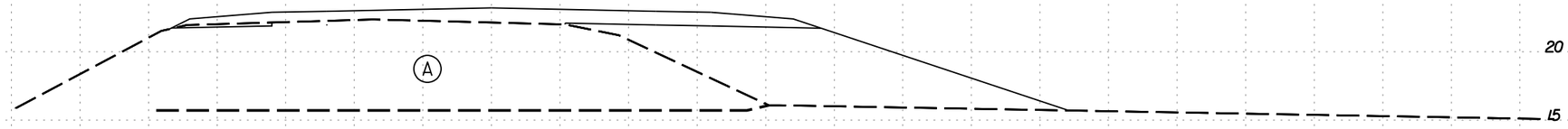
73+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	142

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

73+50.00

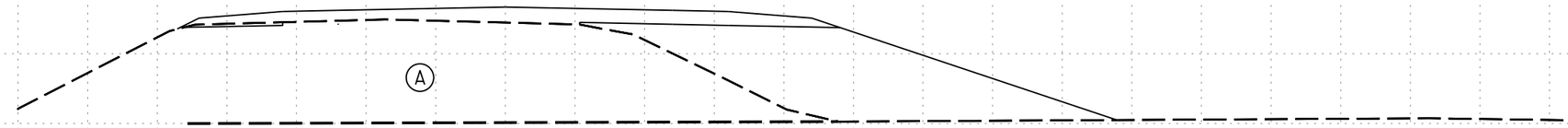
-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

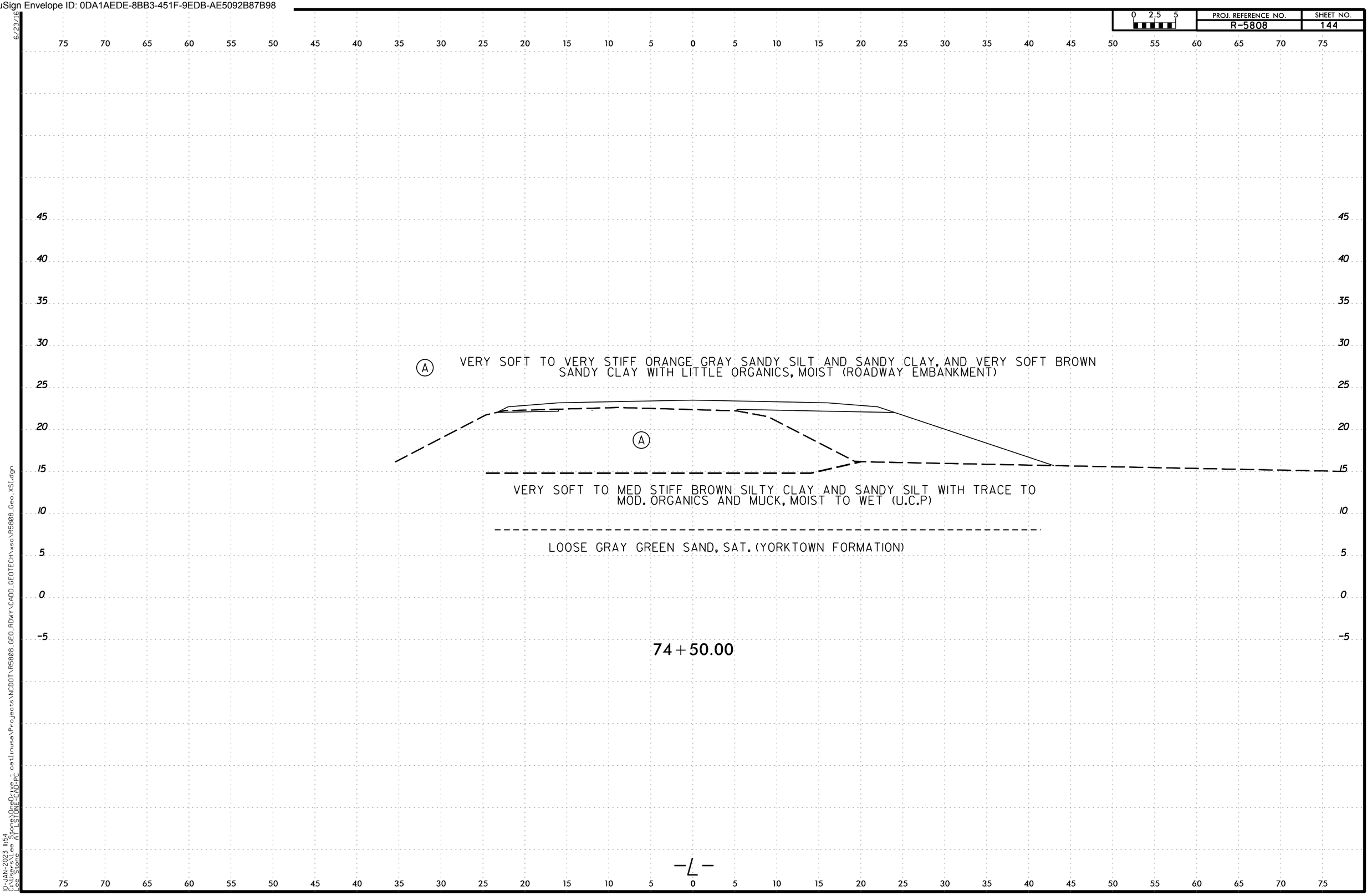


VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

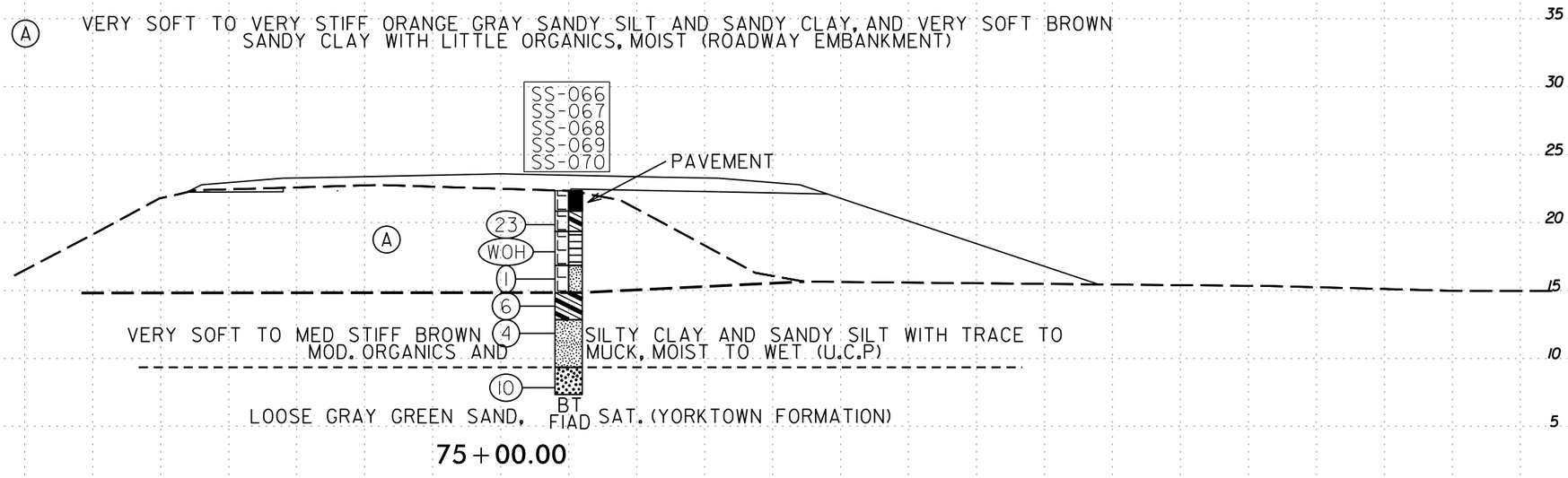
74+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	144



SOIL TEST RESULTS

SAMPLE NUMBER	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-066	25 ft RT	75+00	3.5 - 5.5	()	NEM	-	25.1	48.7	9.7	16.5	98.4	92	28	-	8.2
SS-067	25 ft RT	75+00	5.5 - 7.5	A-4(1)	24	9	10.3	50.1	20.9	18.7	99.9	98	43	-	3.6
SS-068	25 ft RT	75+00	7.5 - 9.5	A-6(2)	29	12	11.7	48.3	16.5	23.5	94.9	98	43	-	4.8
SS-069	25 ft RT	75+00	9.5 - 11.5	A-4(0)	25	7	13.1	49.6	14.7	22.6	99.7	97	41	-	4.5
SS-070	25 ft RT	75+00	13.5 - 15.0	A-2-4(0)	NP	NP	10.6	61.1	19.1	9.2	99.6	98	33	-	-

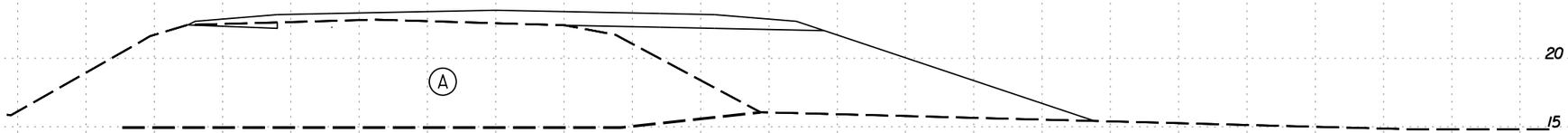


0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	146

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

75+50.00

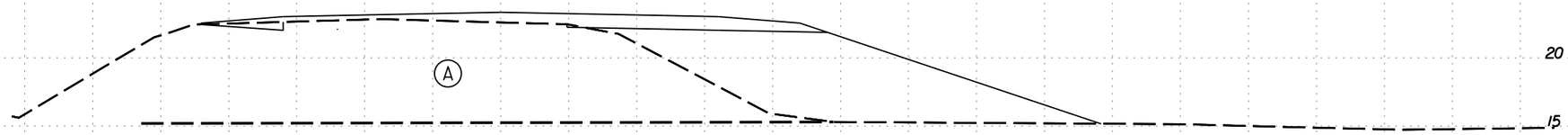
-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	147

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

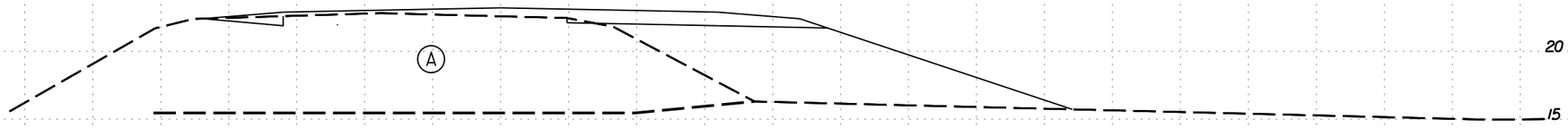
76+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	148

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

76+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	149

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

03/22

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

77+00.00

-L-

50 45 40 35 30 25 20 15 10 5 0

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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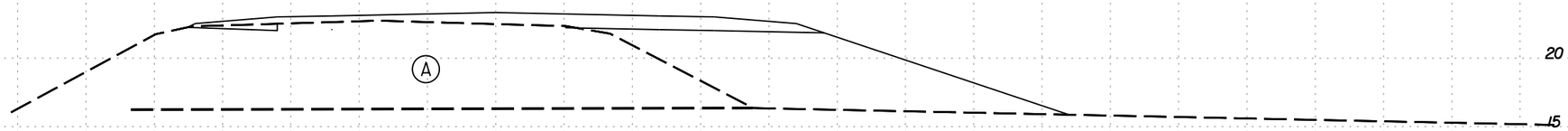
6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	150

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

77 + 50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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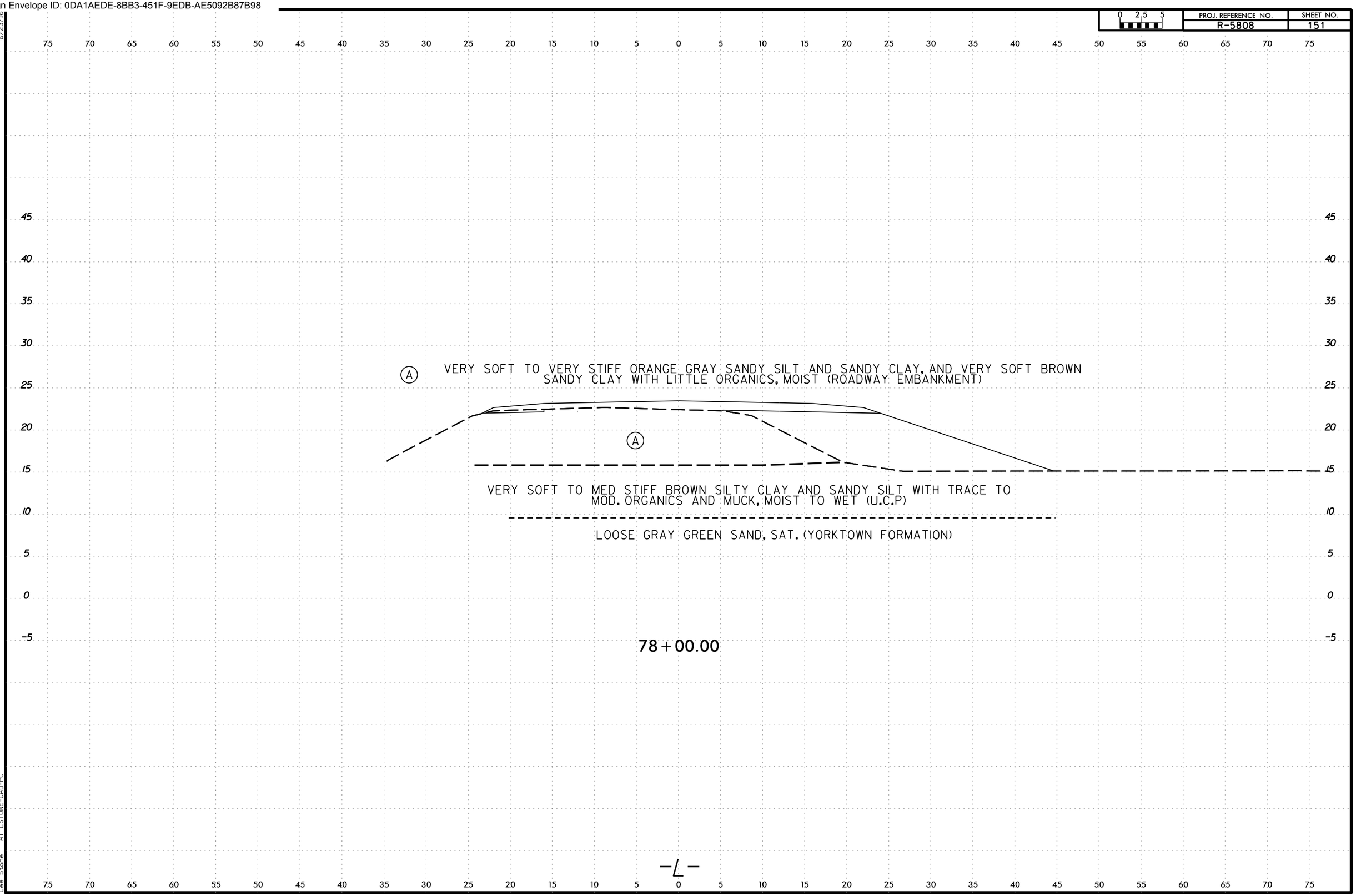
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	151



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	152

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

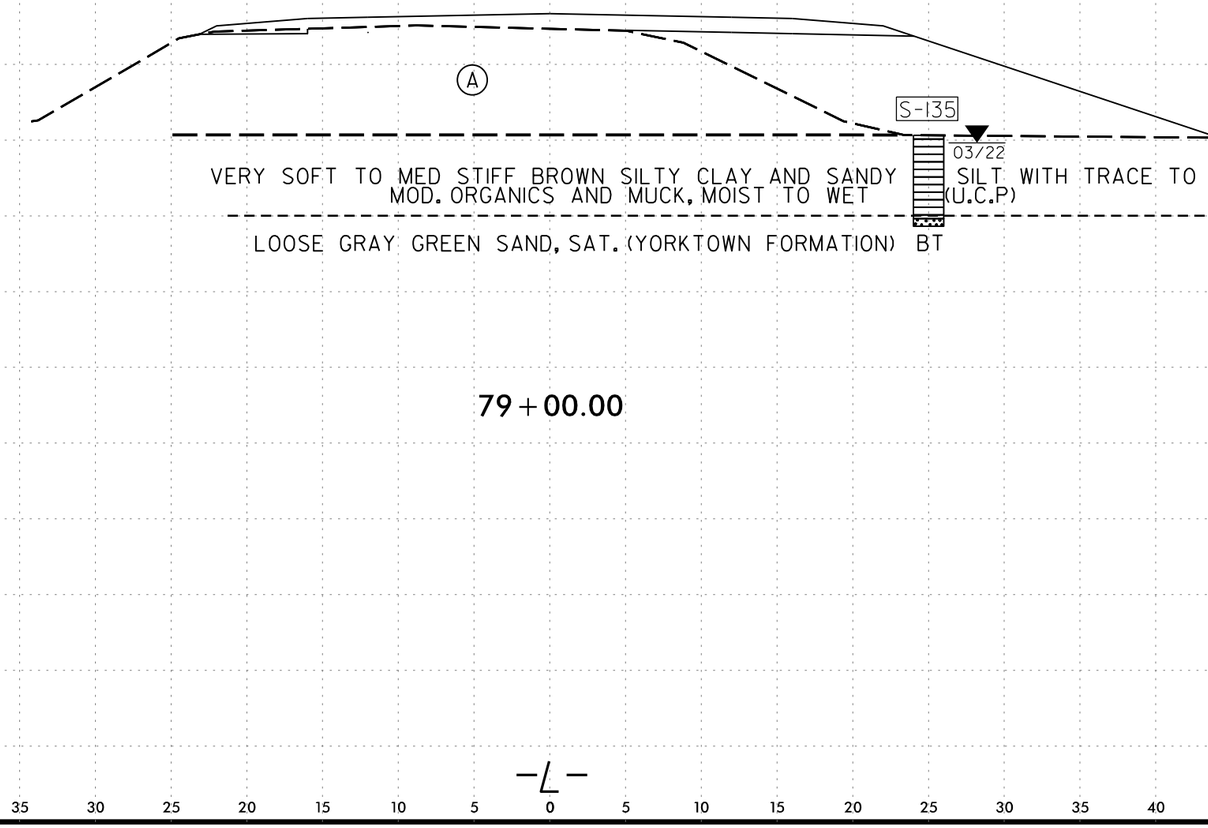
LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

78+50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-135	25 ft RT	79+00	0.0 - 5.5	A-4(0)	NP	NP	17.6	44.2	36.5	1.7	64.2	95	40	128	11.1



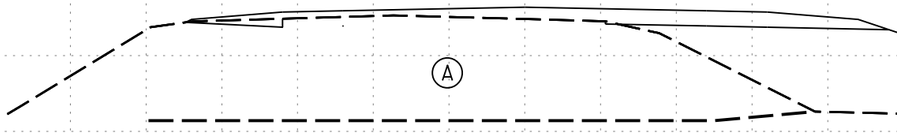
79 + 00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	154

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)



VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

79+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	155

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

Ⓐ VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT AND SANDY CLAY, AND VERY SOFT BROWN SANDY CLAY WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

Ⓐ

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY SILT WITH TRACE TO MOD. ORGANICS AND MUCK, MOIST TO WET (U.C.P)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

80+00.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	156

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

80 + 50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	157

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

BT

81+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	158

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

81+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	159

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

82 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	160

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

82+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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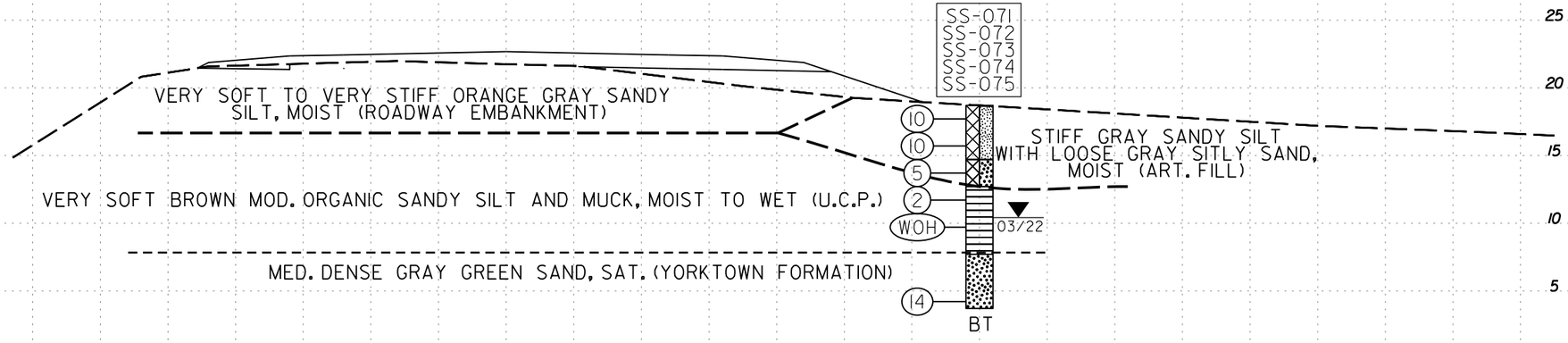
Lee Stone AT LSTONE-CAD-PC

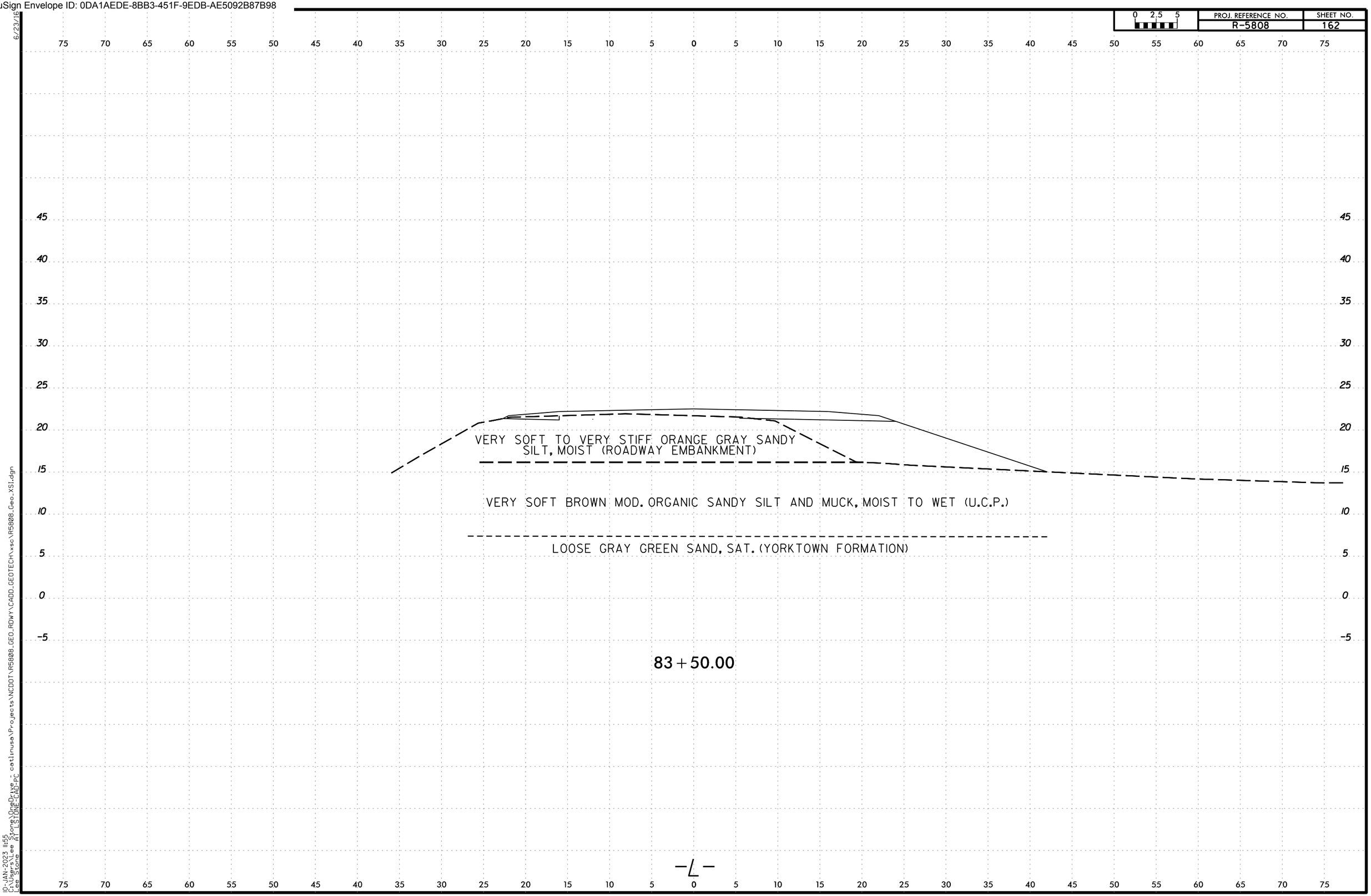
SOIL TEST RESULTS

SAMPLE NUMBER	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-071	25 ft RT	83+00	2.0 - 4.0	A-4(2)	23	8	11.4	37.5	28.9	22.2	97.8	96	58	-	-
SS-072	25 ft RT	83+00	4.0 - 6.0	A-2-4(0)	NP	NP	21.8	58.0	13.8	6.4	99.3	94	24	-	-
SS-073	25 ft RT	83+00	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	11.3
SS-074	25 ft RT	83+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	7.5
SS-075	25 ft RT	83+00	13.5 - 15.0	A-2-4(0)	NP	NP	33.8	49.0	7.1	10.1	100	90	20	-	-



83+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	162



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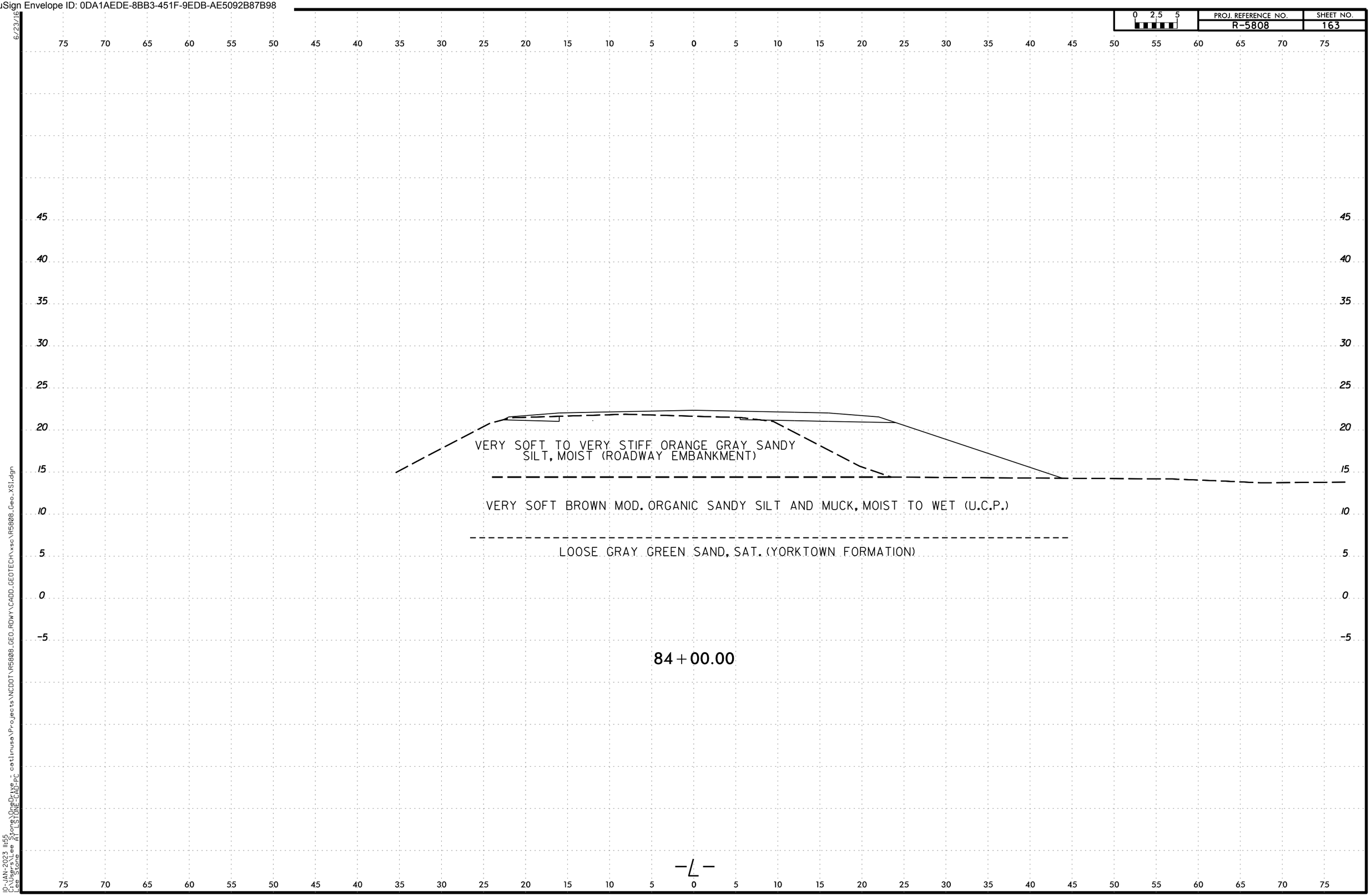
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	163



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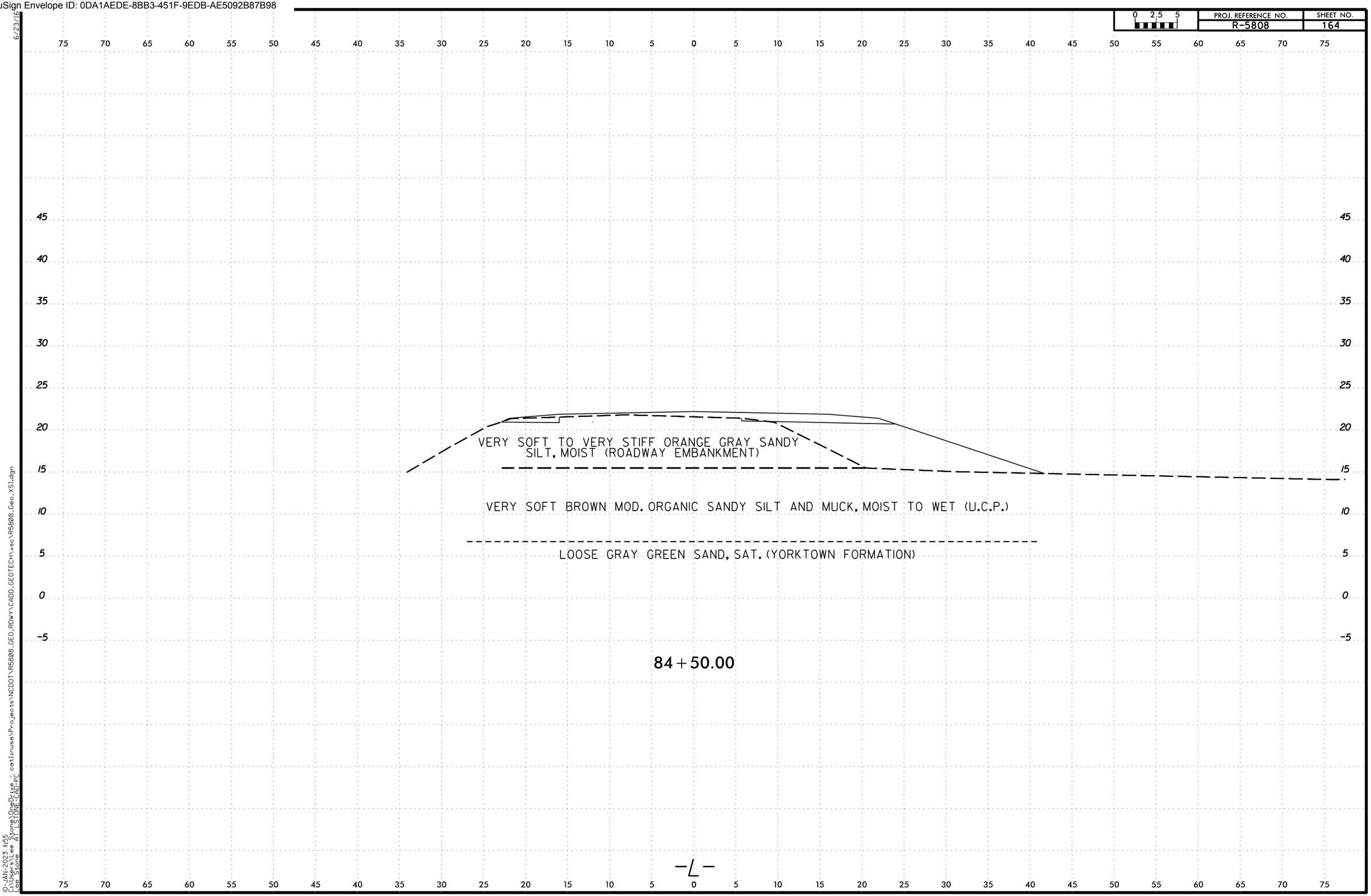
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	164



SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-005	25 ft RT	85+00	0.0 - 8.0	A-4(0)	NP	NP	8.9	14.8	65.6	10.7	100	95	77	391	29.3

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

S-005

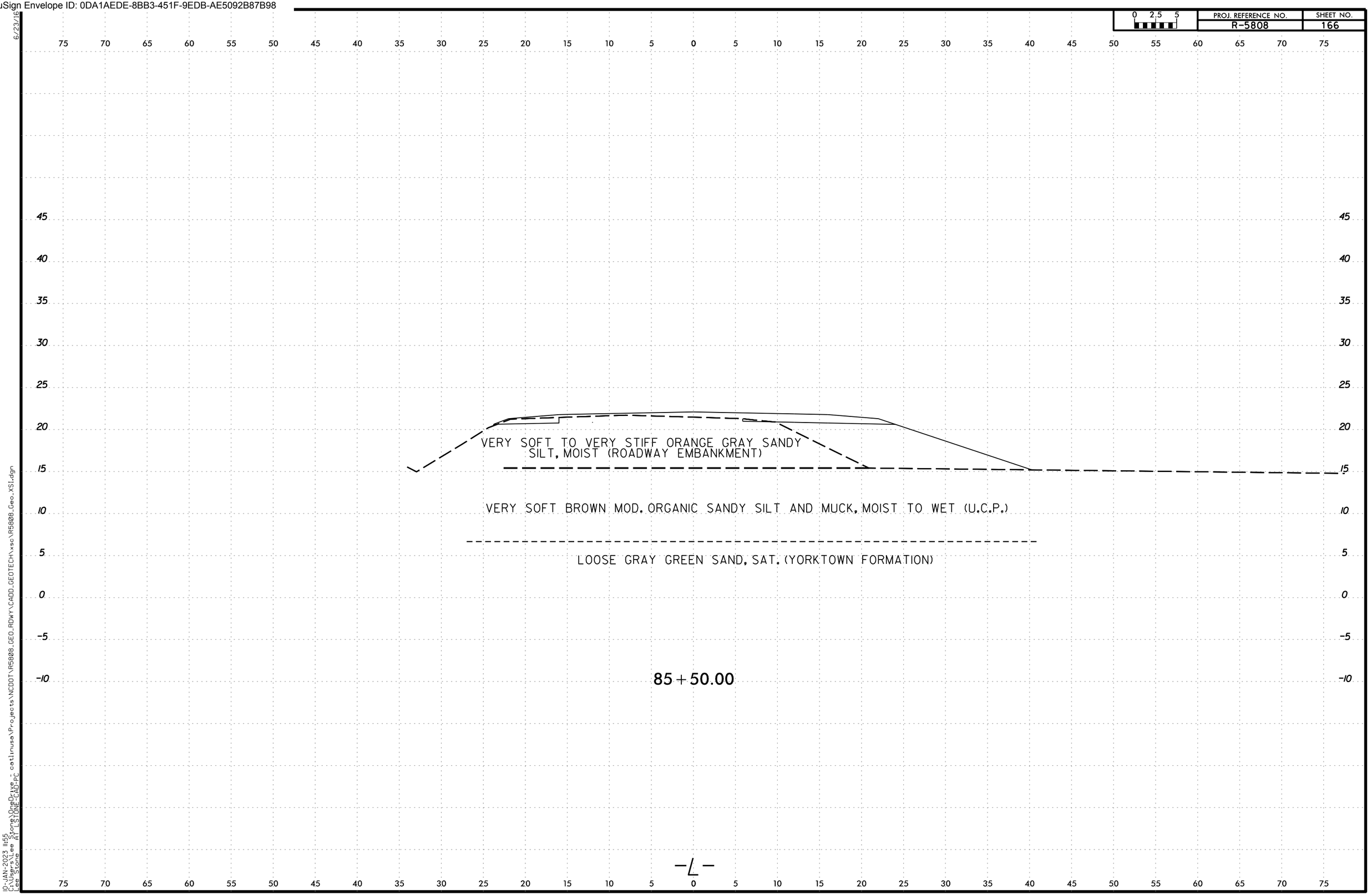
03/22

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

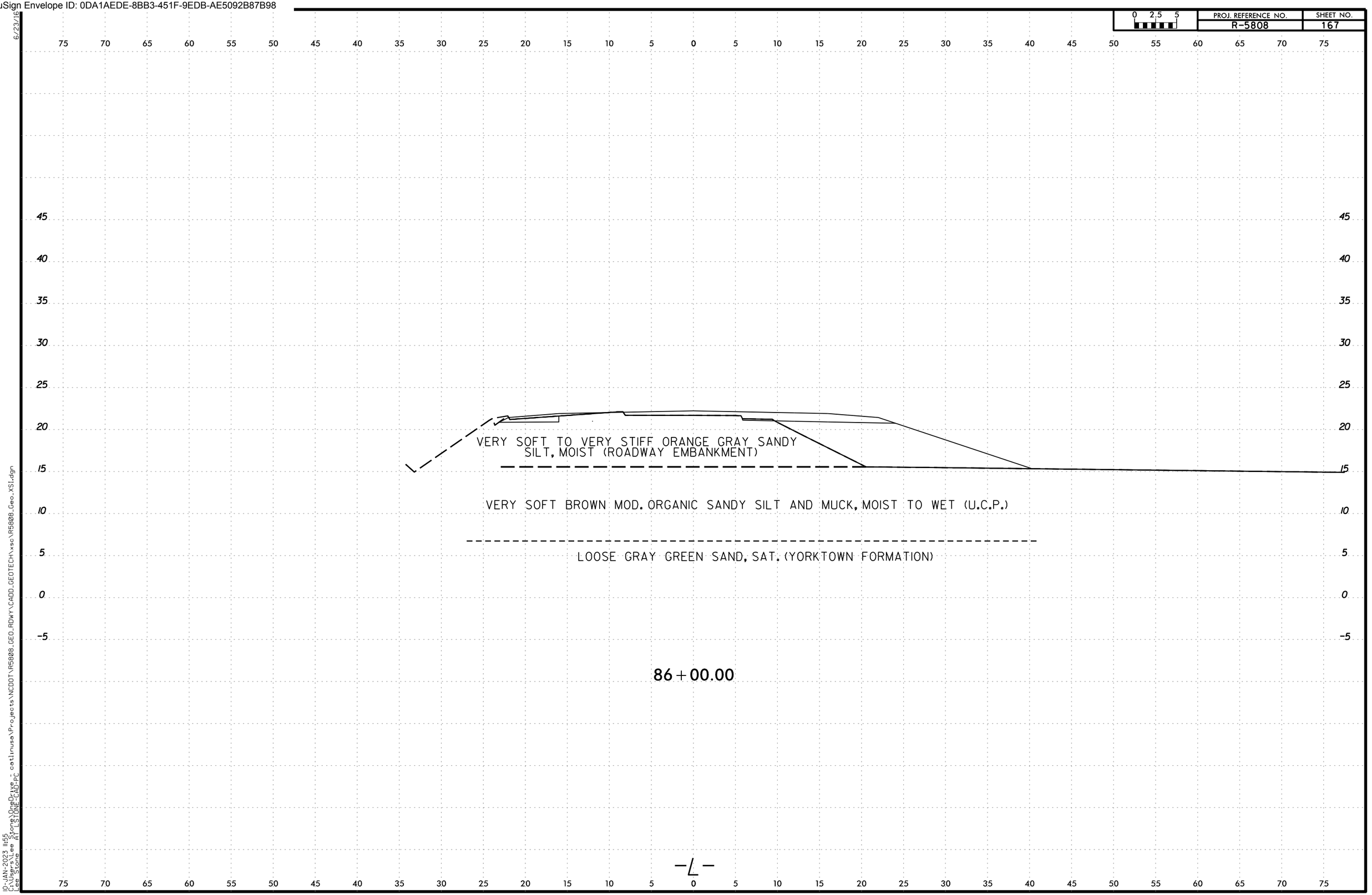
LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

85+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	166



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	167



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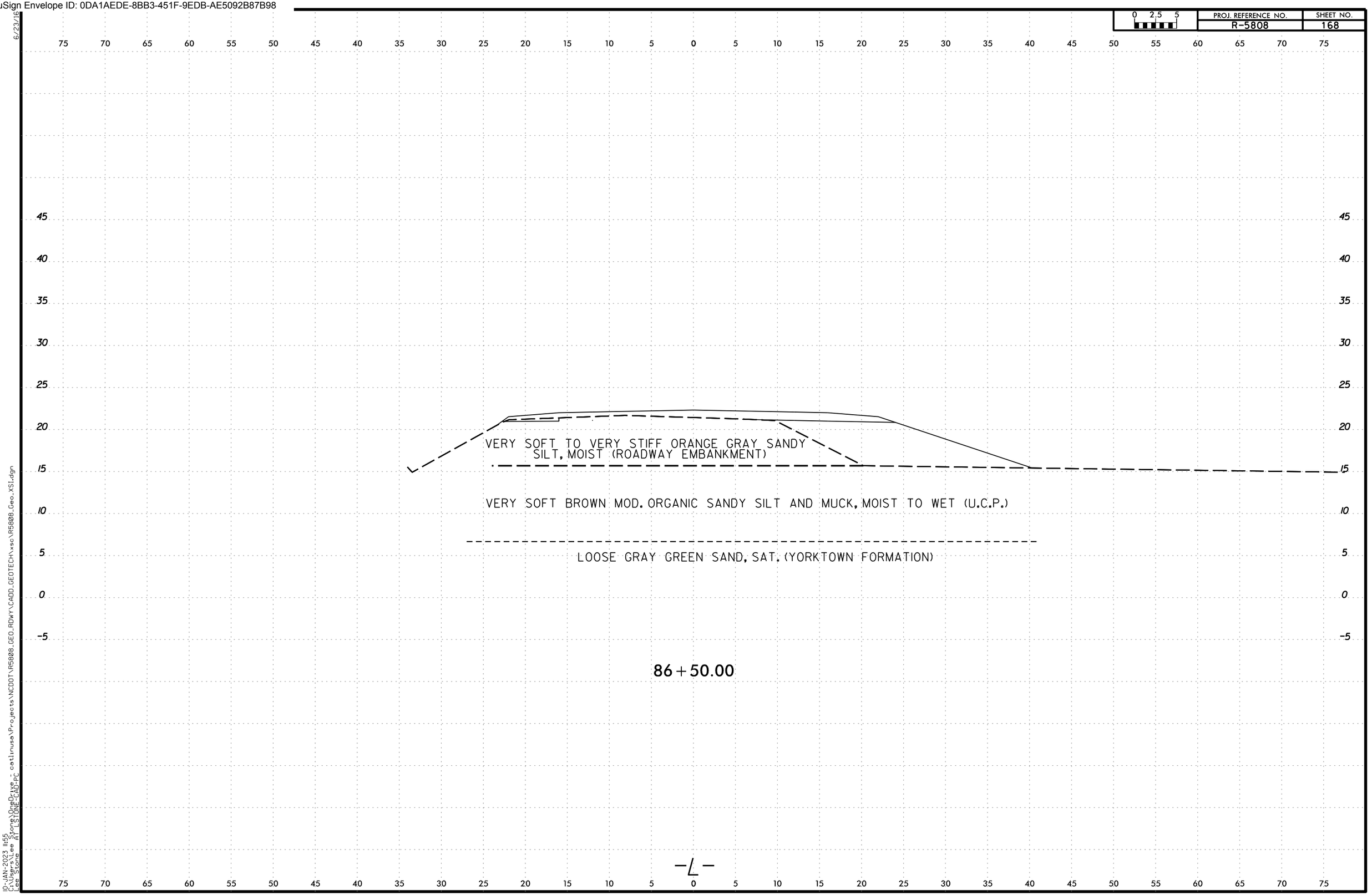
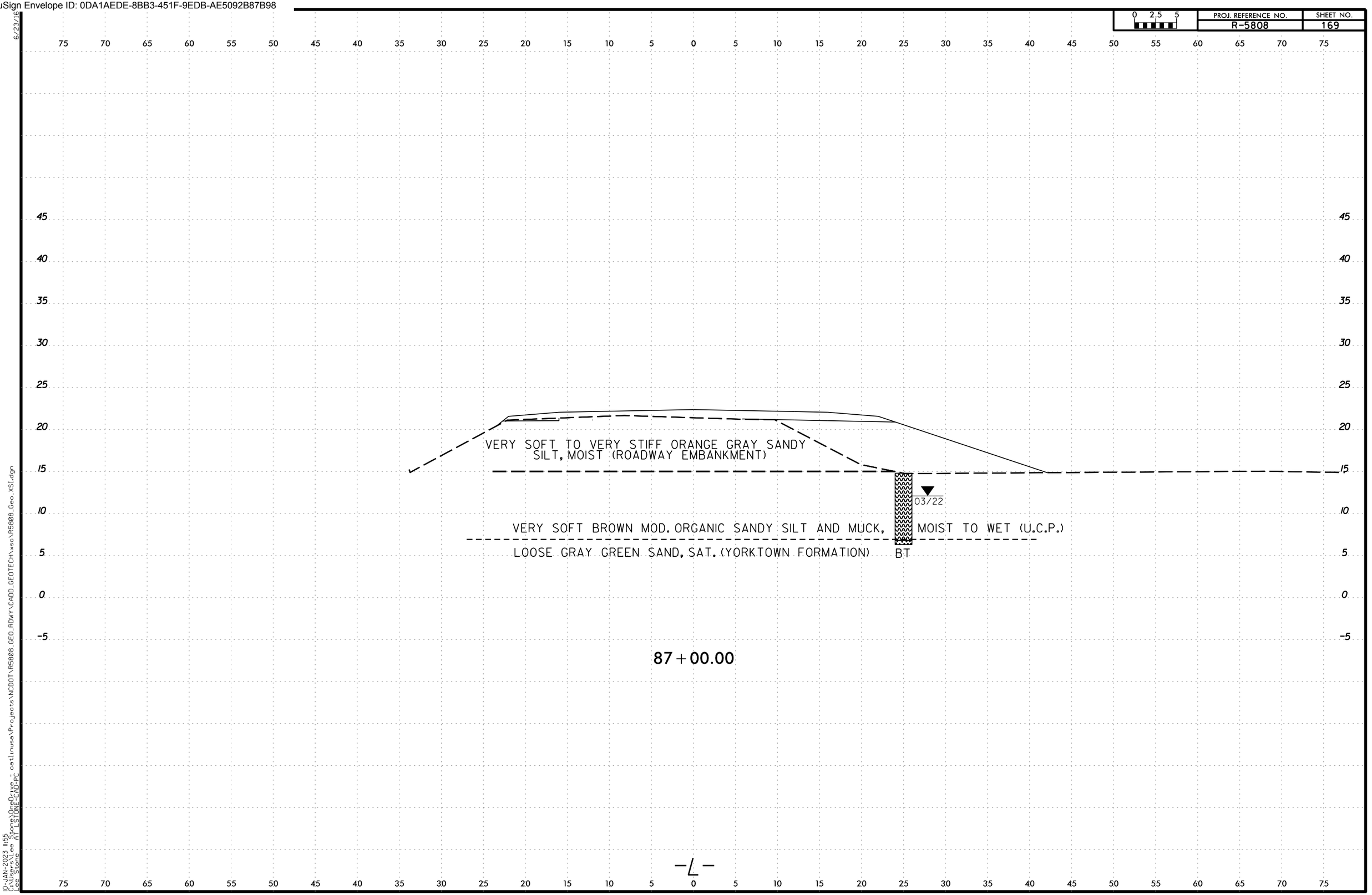
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	168



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	169



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Lee Stone AT LSTONE CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	170

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

87+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	171

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

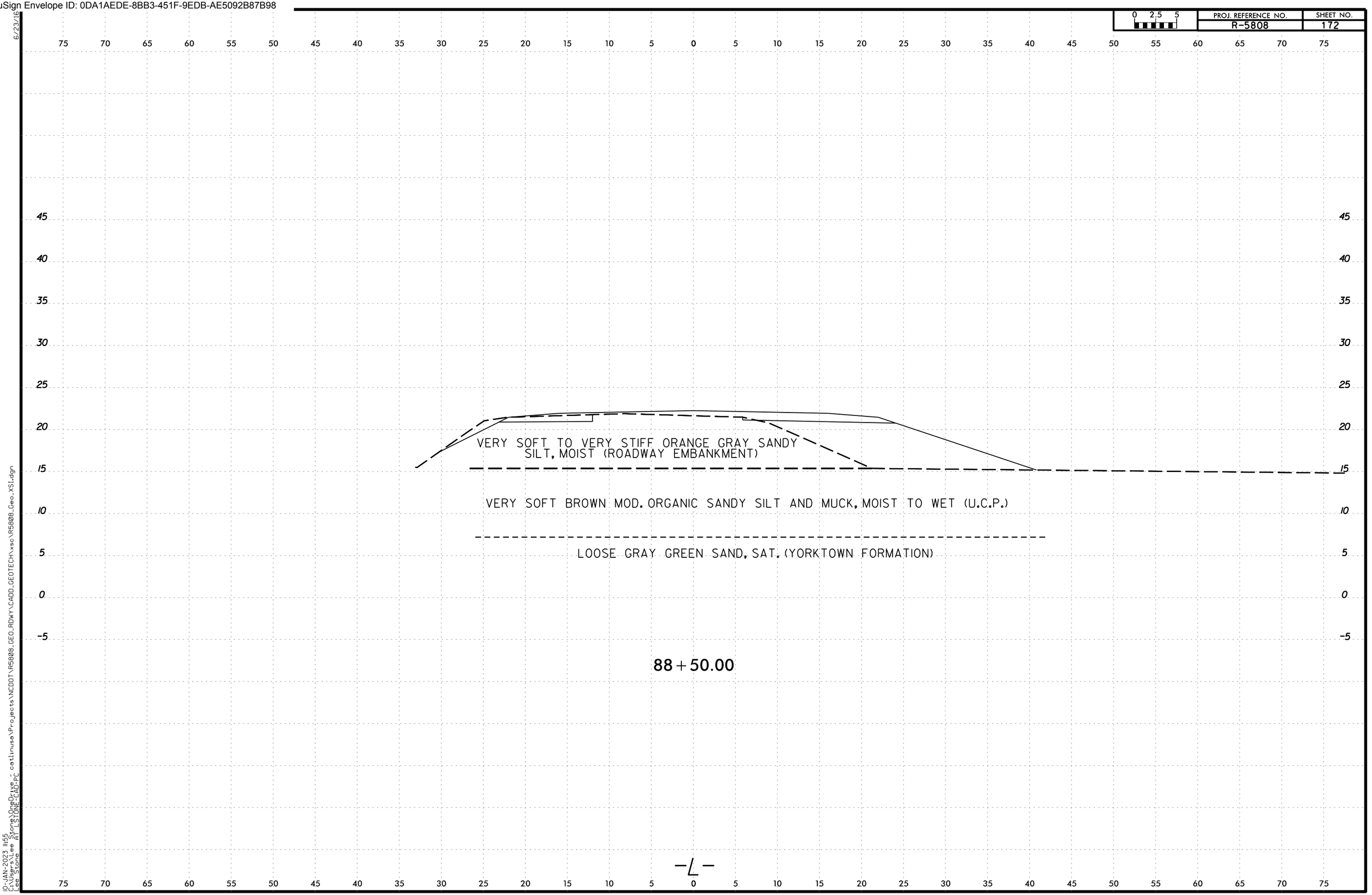
VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

88+00.00

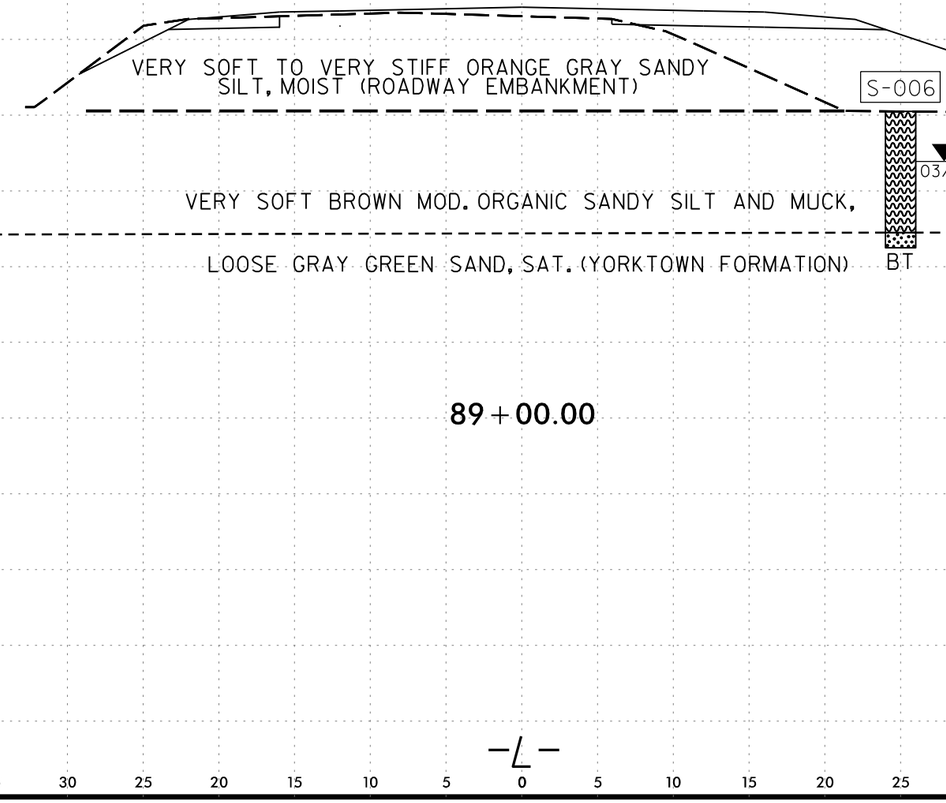
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	172



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	173

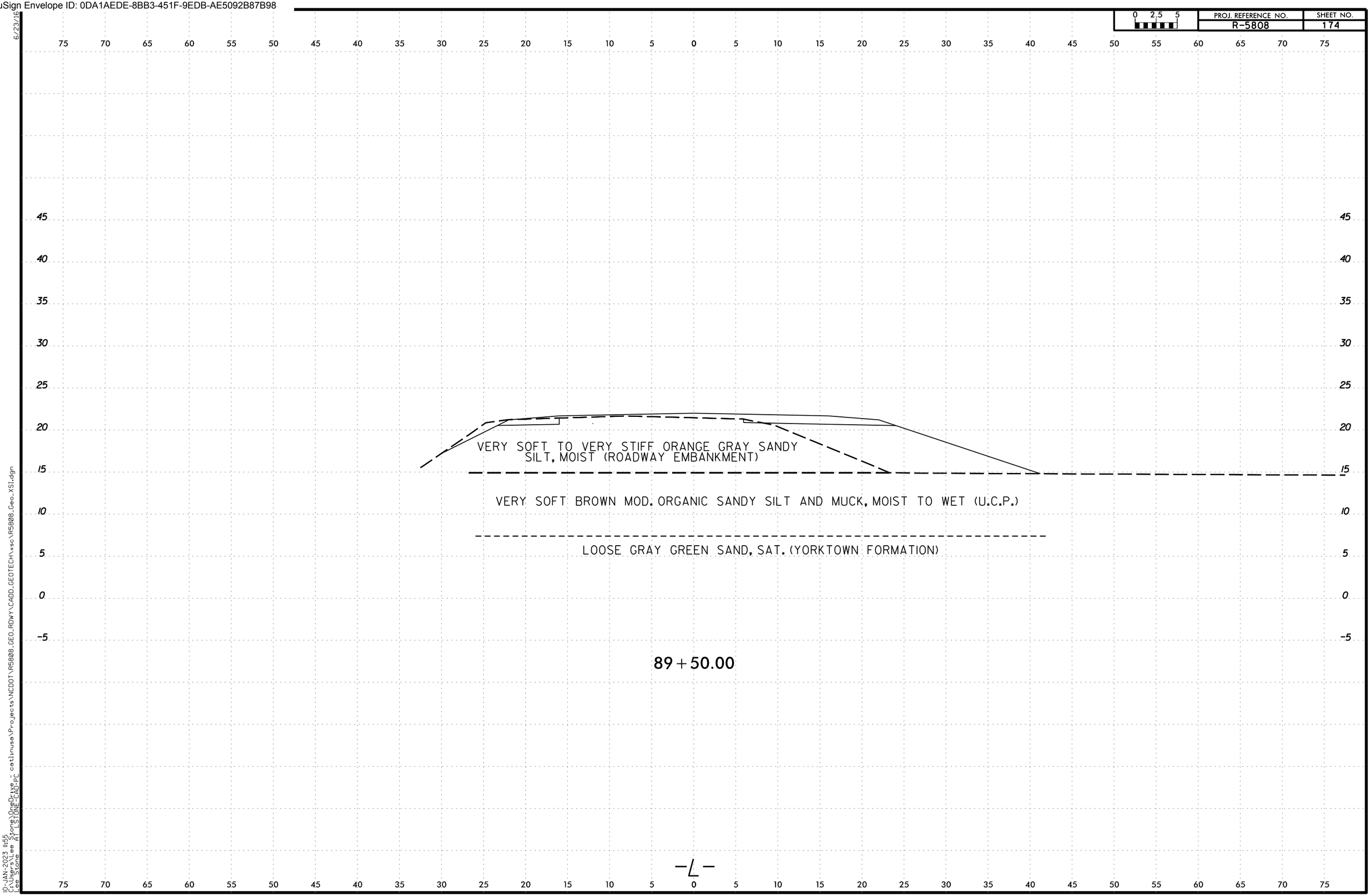
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-006	25 ft RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	20.8	22.2	49.4	7.5	99	93	58	173	34.6

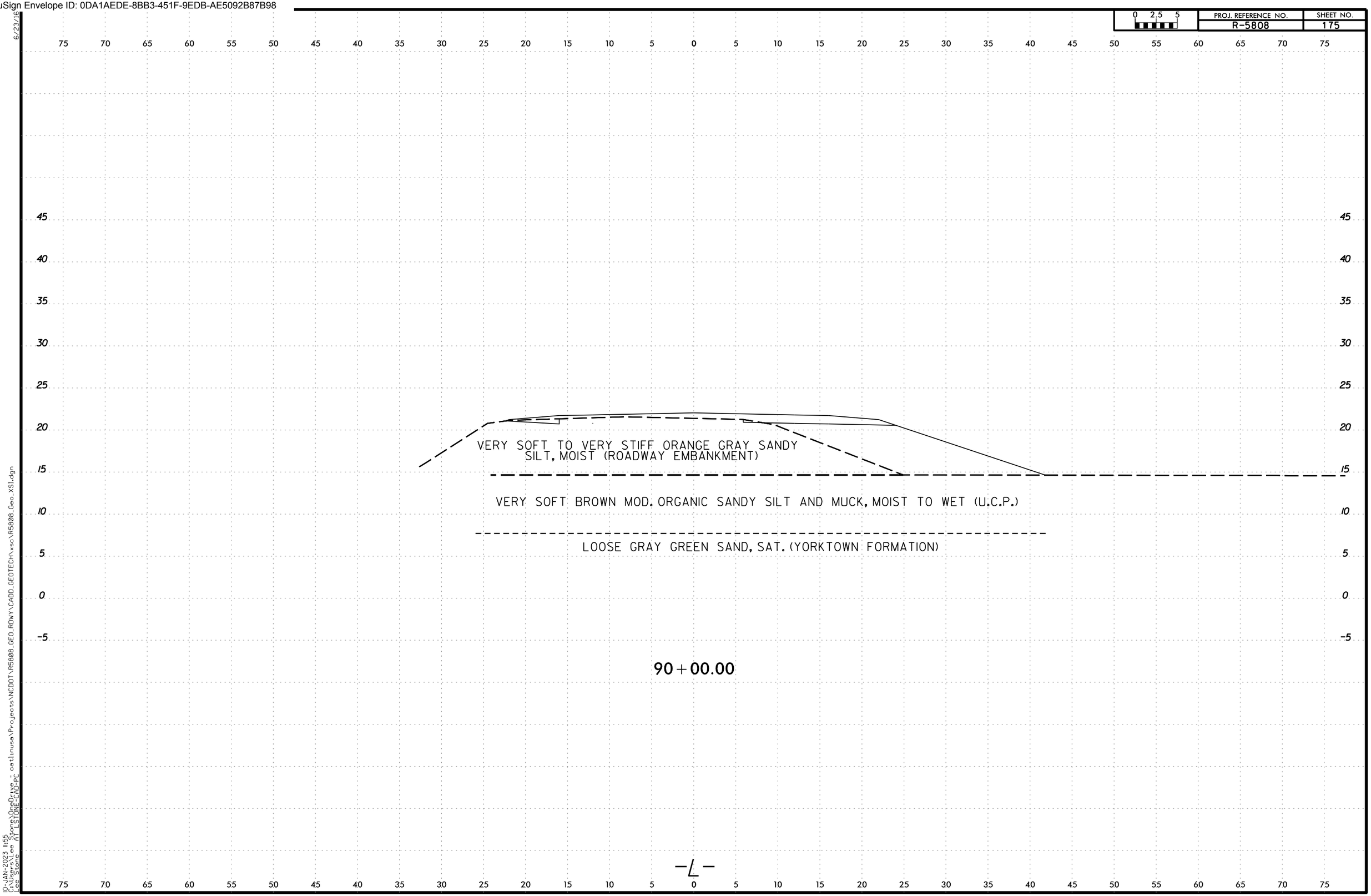


89+00.00

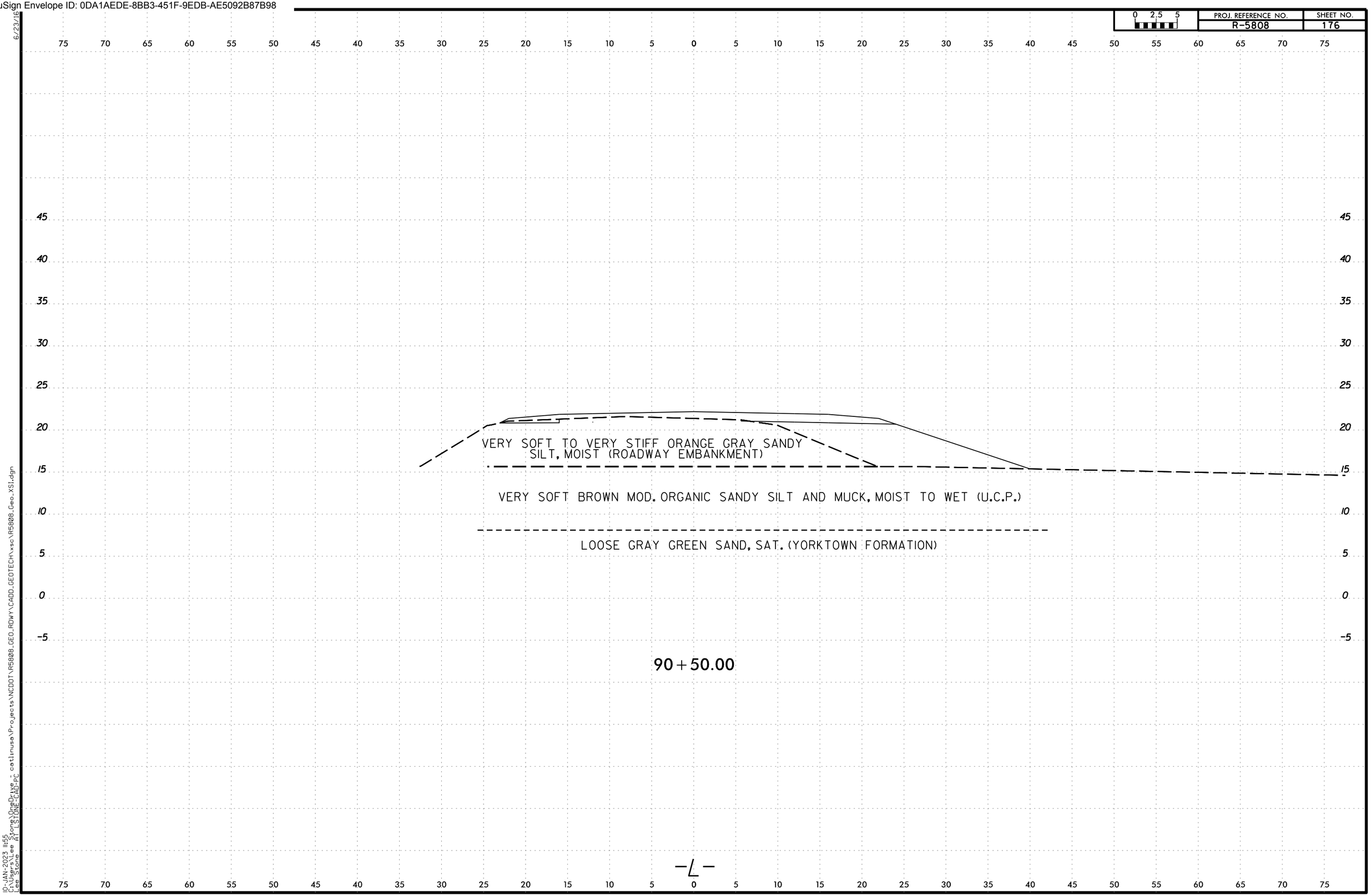
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	174



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	175



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	176



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	177

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

91+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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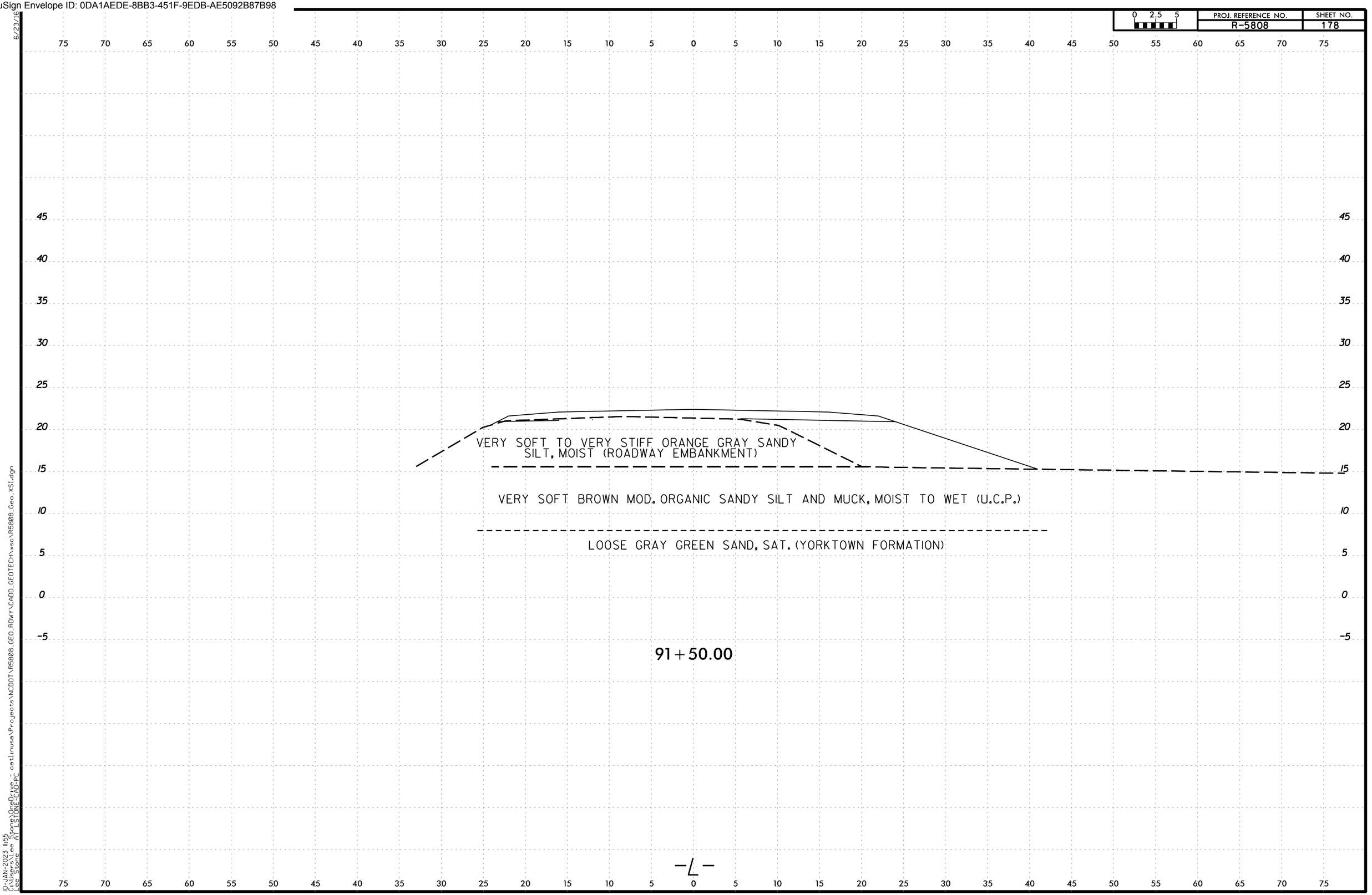
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	178



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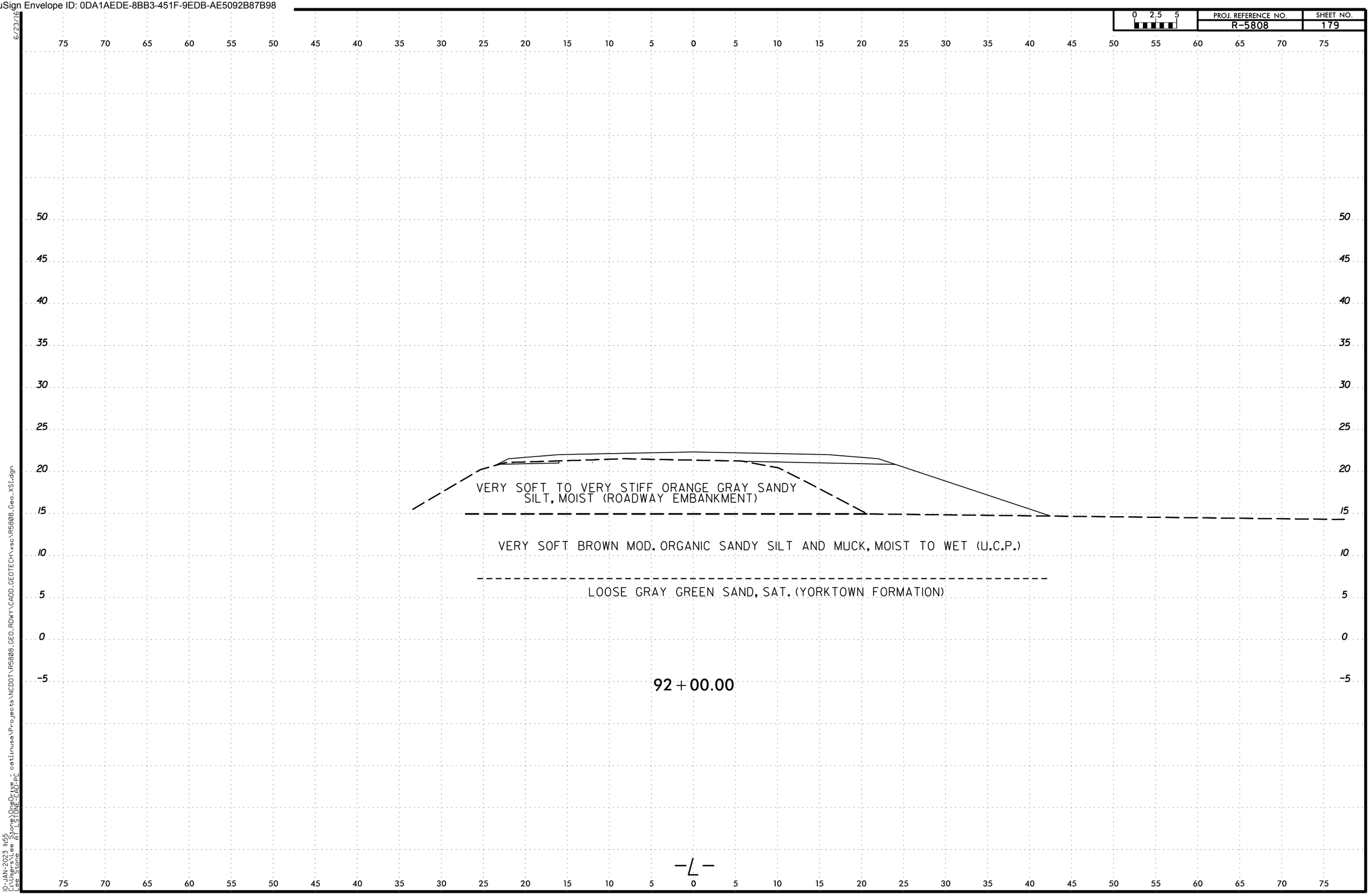
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	179



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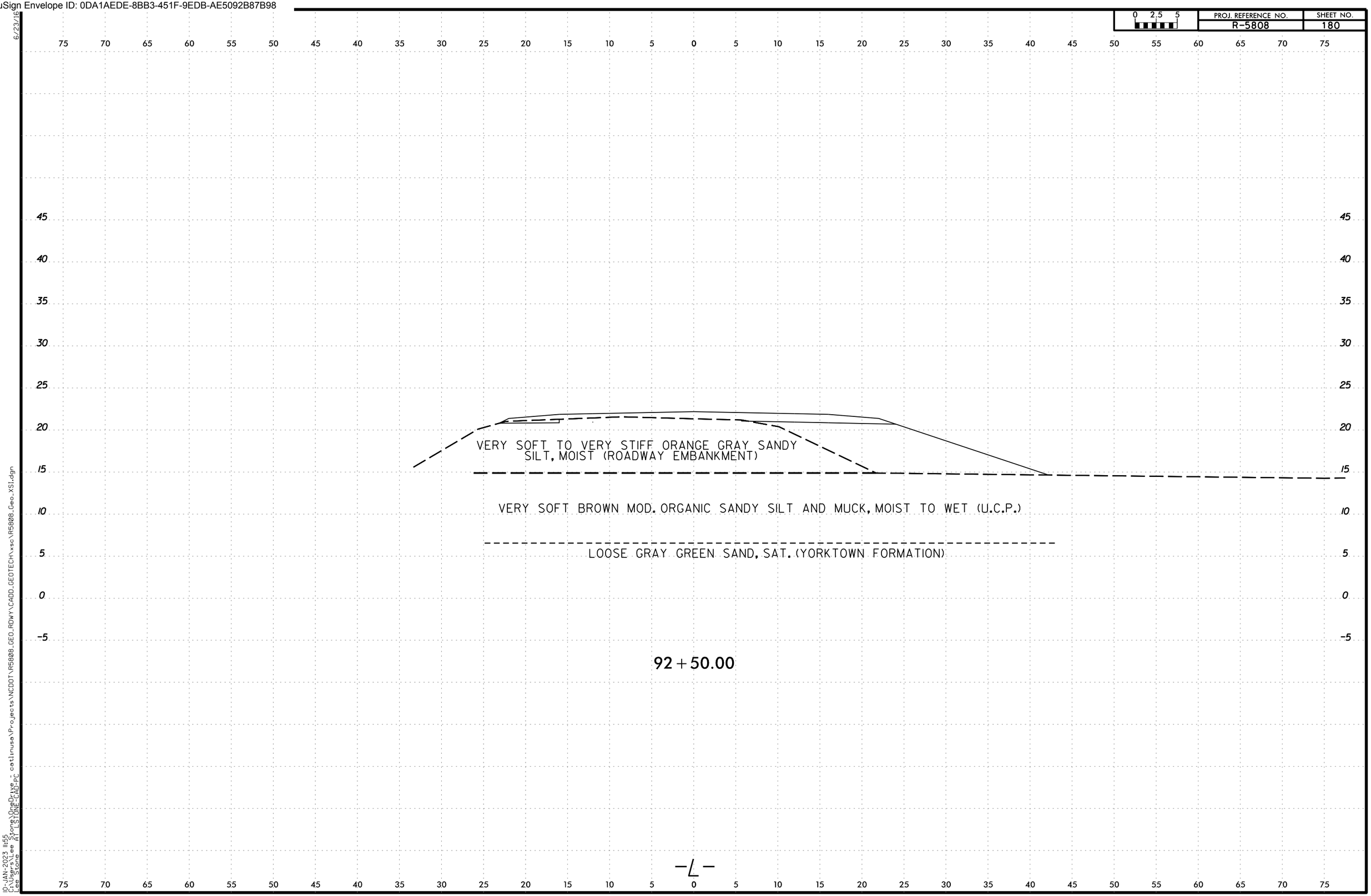
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	180



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	181

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45 40 35 30 25 20 15 10 5 0 -5

VERY SOFT TO VERY STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY SOFT BROWN MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

93+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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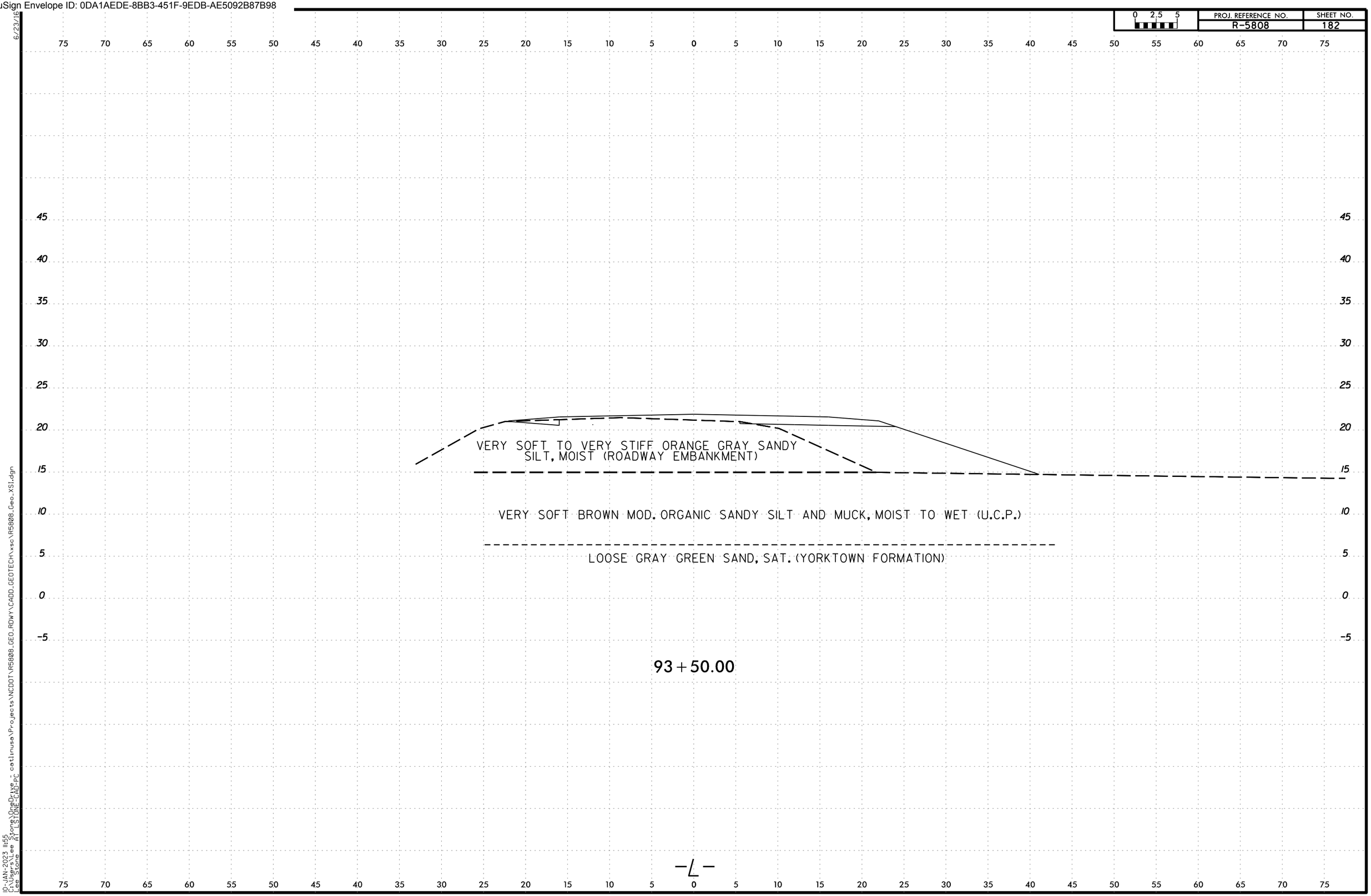
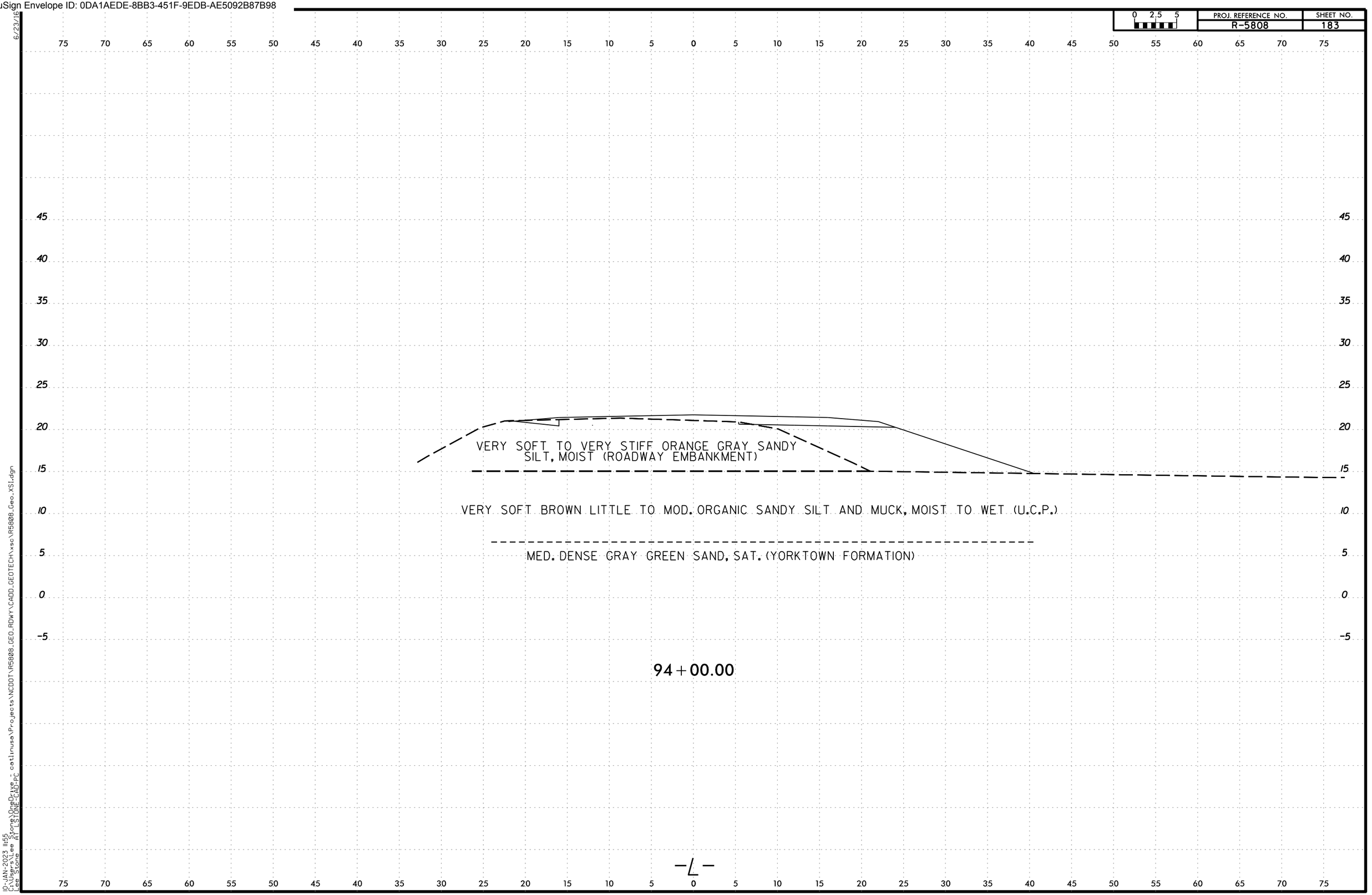
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	182



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	183



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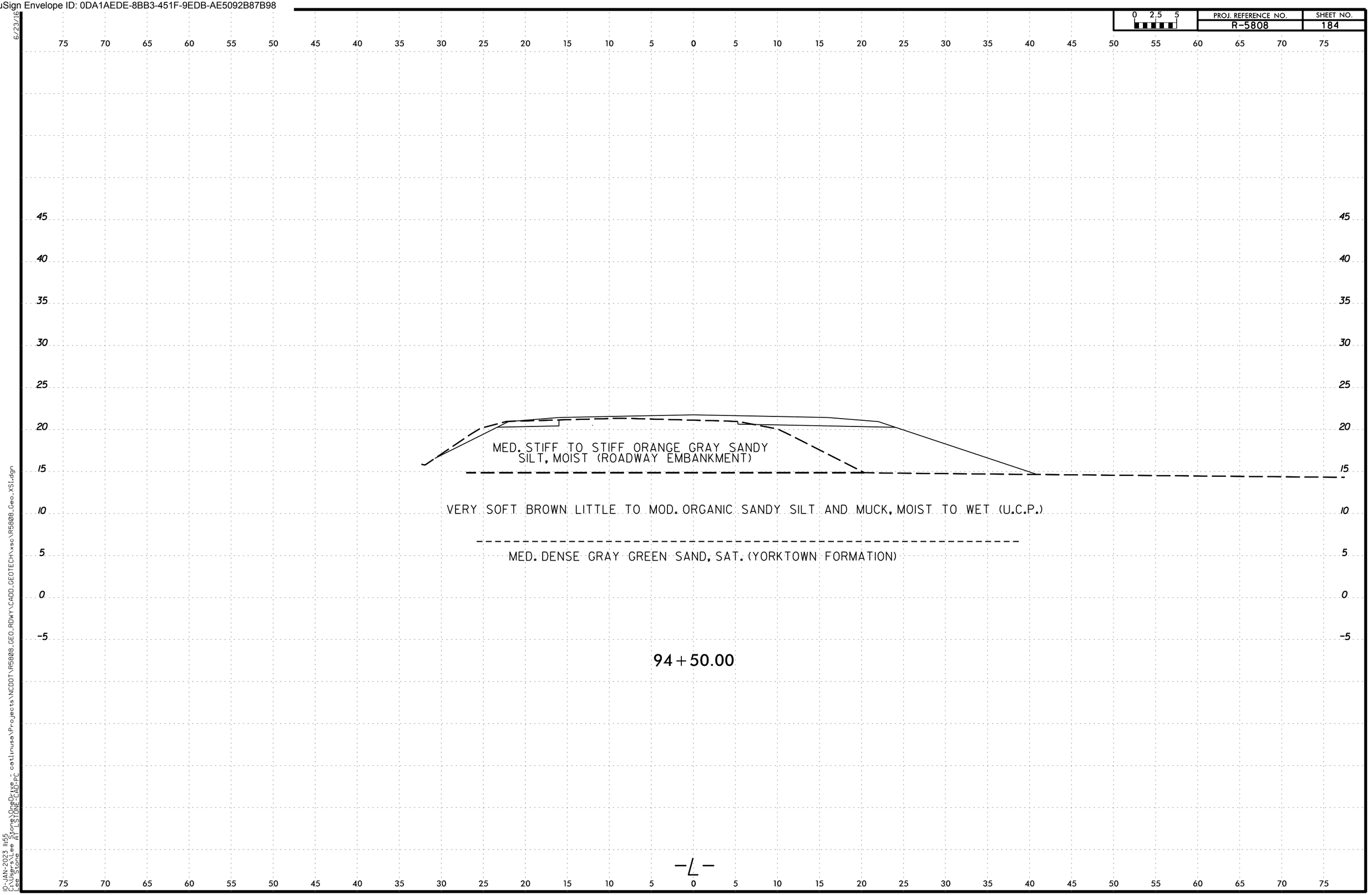
Lee Stone AT LEE STONE CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	184



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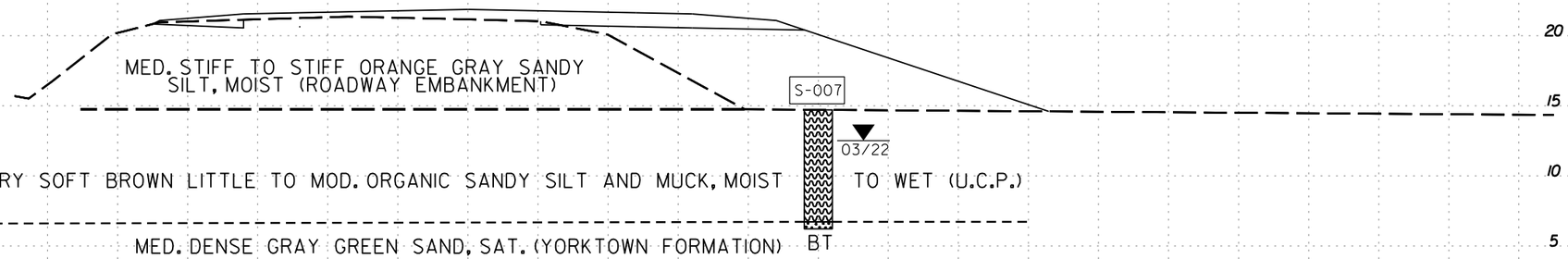
Lee Stone AT LSTONE-CAD-PC

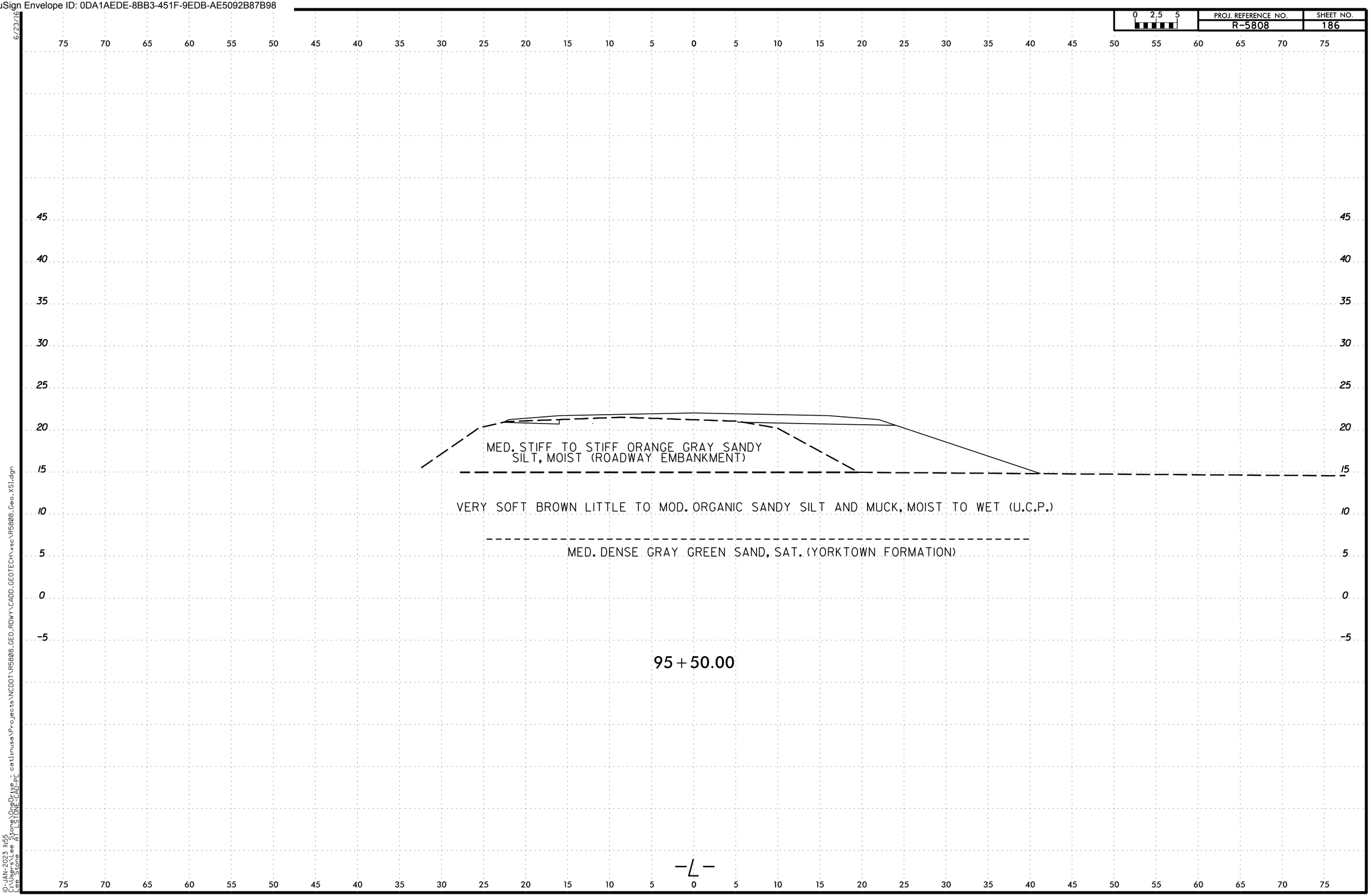
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-007	25 ft RT	95+00	0.0 - 8.0	A-4(0)	NP	NP	40.7	14.4	39.5	5.5	95.8	67	46	218	56.5



95+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	186



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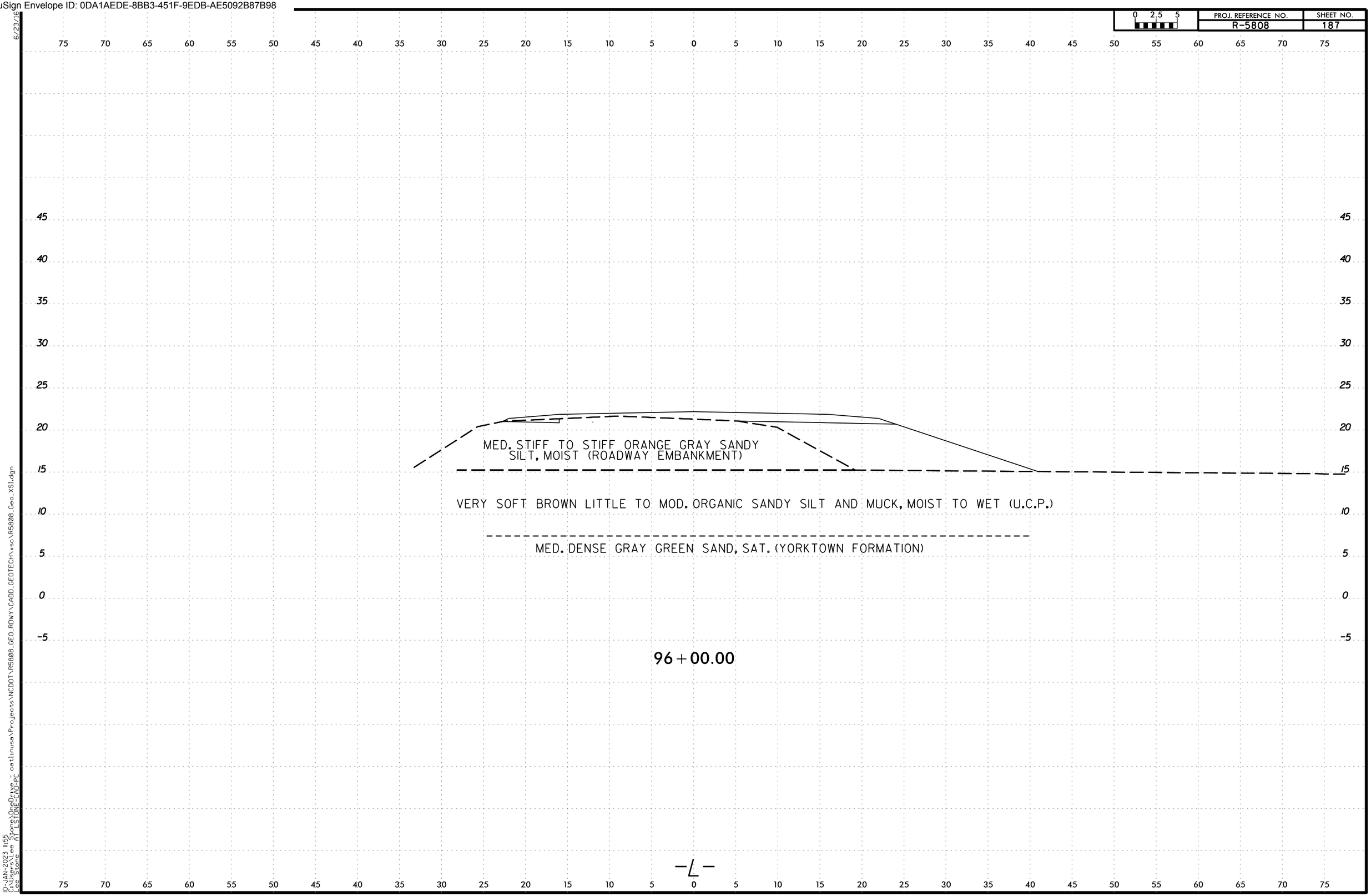
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	187



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	188

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

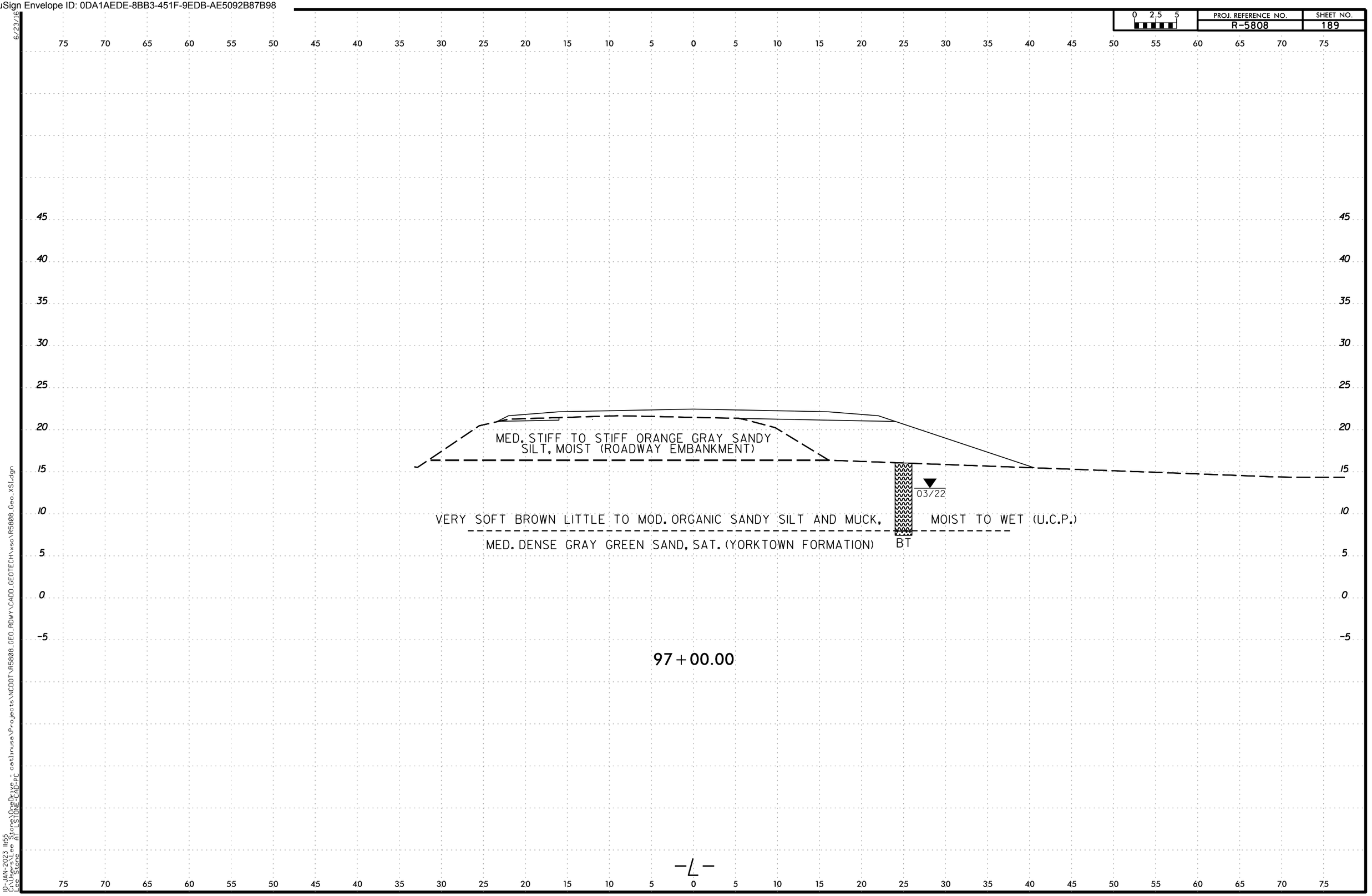
MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

96+50.00

-L-



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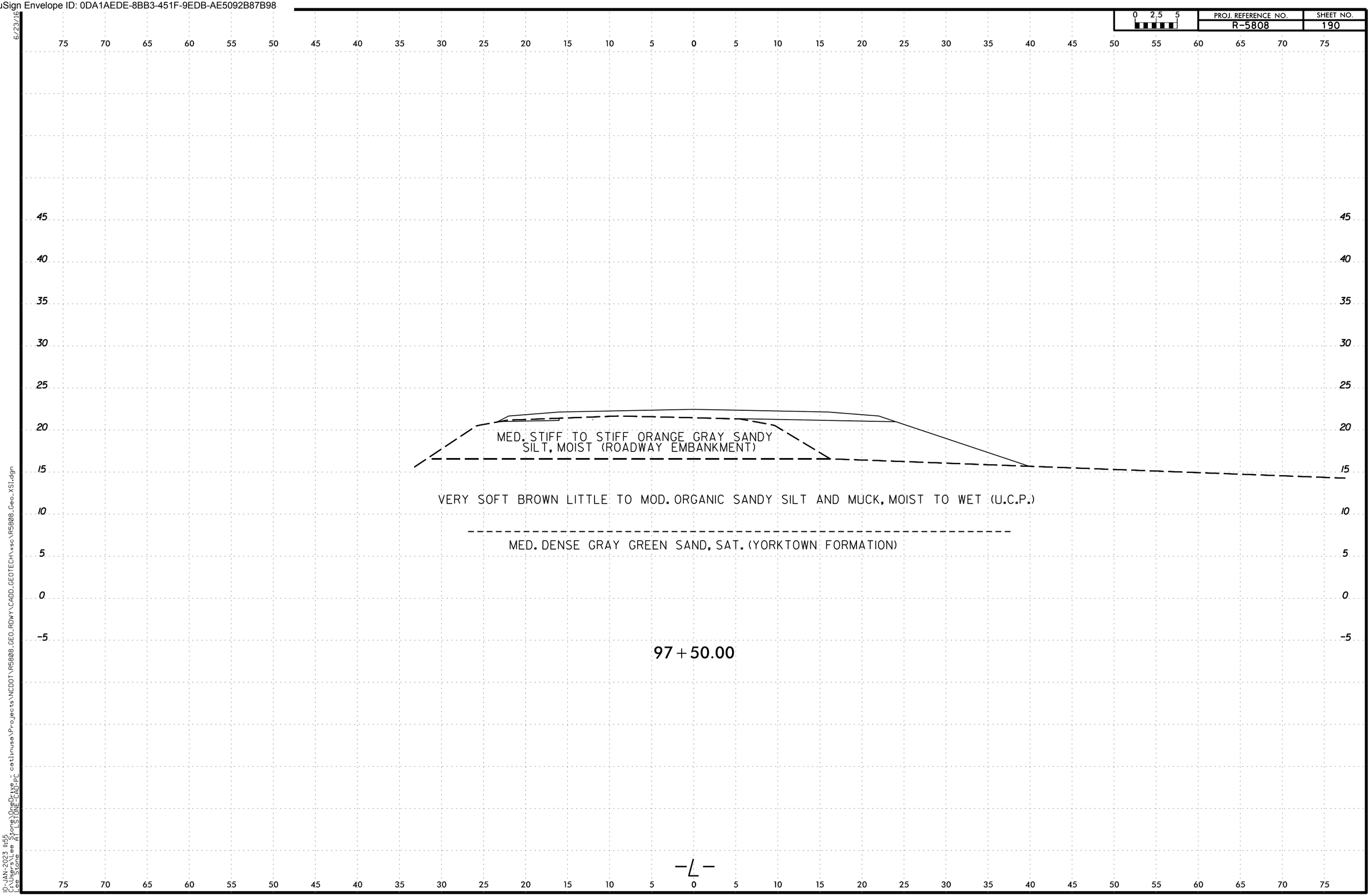
	R-5808	190



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	191

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

98+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	192

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

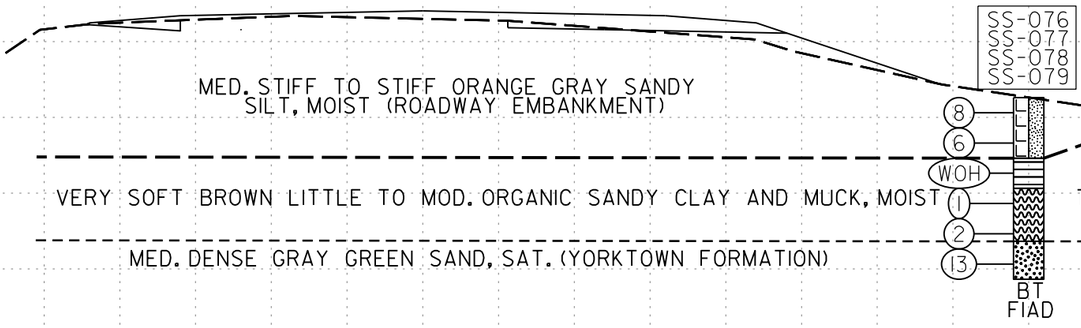
98+50.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	193

SOIL TEST RESULTS

SAMPLE NUMBER	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-076	25 ft RT	99+00	4.0 - 6.0	A-6(1)	29	11	21.5	40.7	21.1	16.6	97.5	93	41	-	6.0
SS-077	25 ft RT	99+00	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	52.1
SS-078	25 ft RT	99+00	8.0 - 9.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	41.8
SS-079	25 ft RT	99+00	10.0 - 12.0	A-2-4(0)	NP	NP	37.8	51.0	6.6	4.6	100	91	14	-	-



99+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	194

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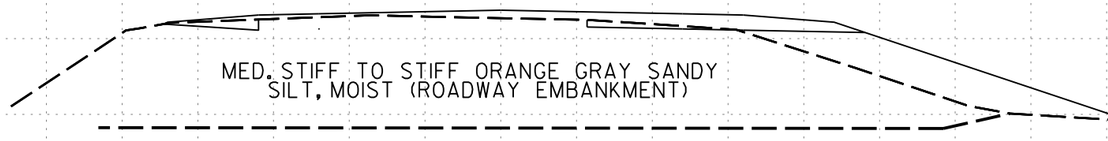
45 40 35 30 25 20 15 10 5 0 -5



99+50.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	195

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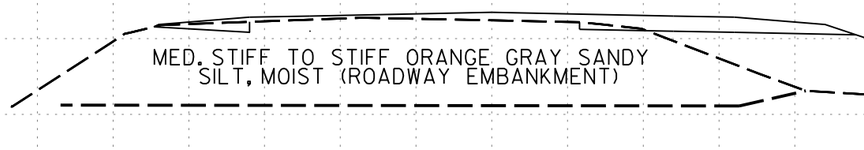
45 40 35 30 25 20 15 10 5 0 -5

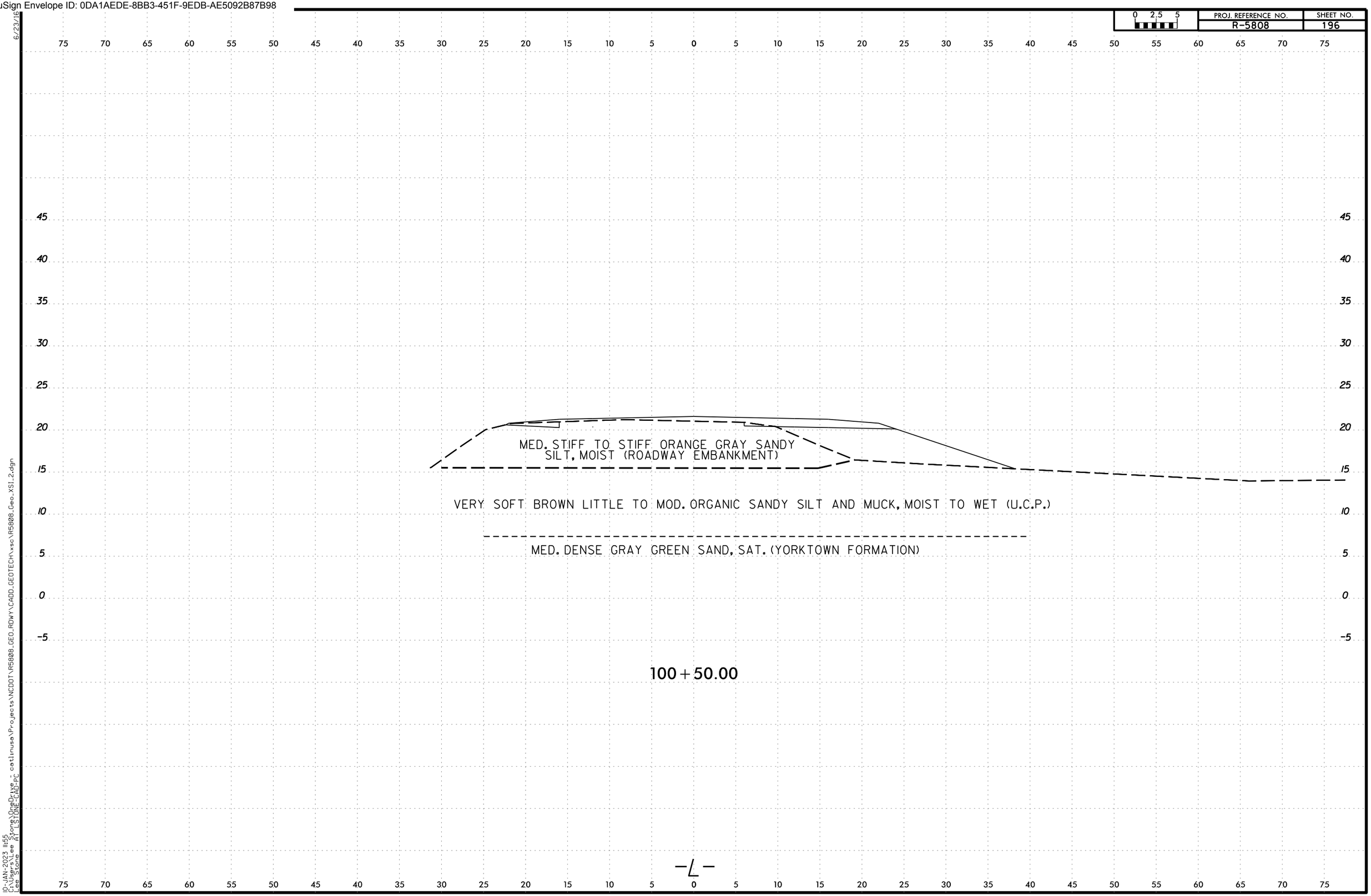


VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

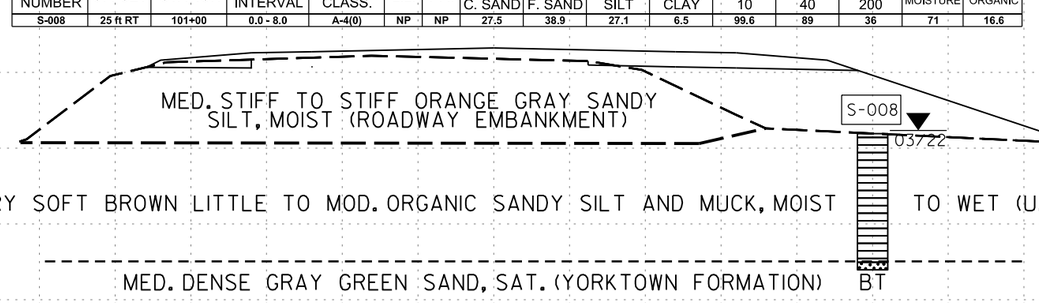
100+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	196



SOIL TEST RESULTS

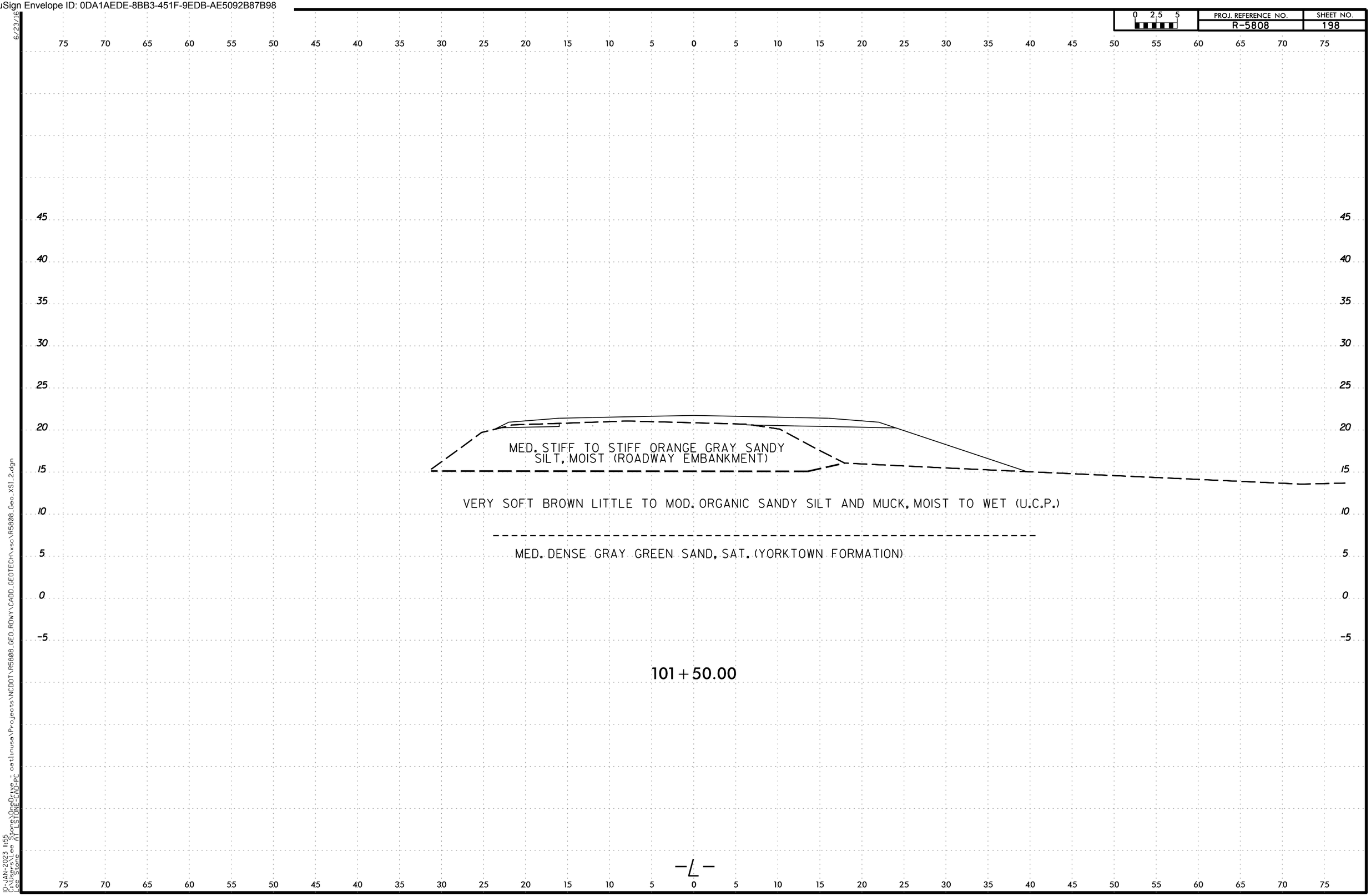
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-008	25 ft RT	101+00	0.0 - 8.0	A-4(0)	NP	NP	27.5	38.9	27.1	6.5	99.6	89	36	71	16.6



101+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	198



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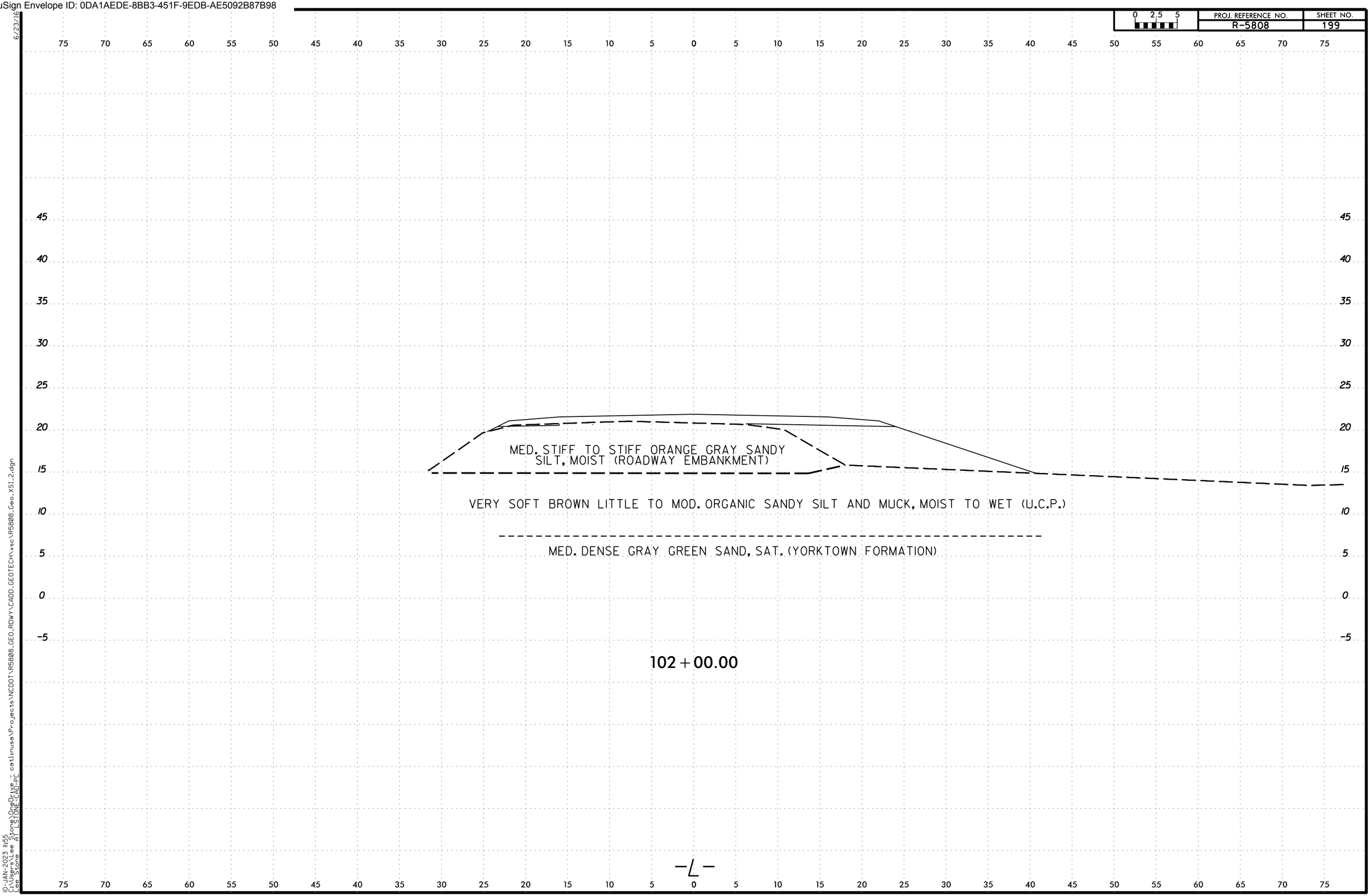
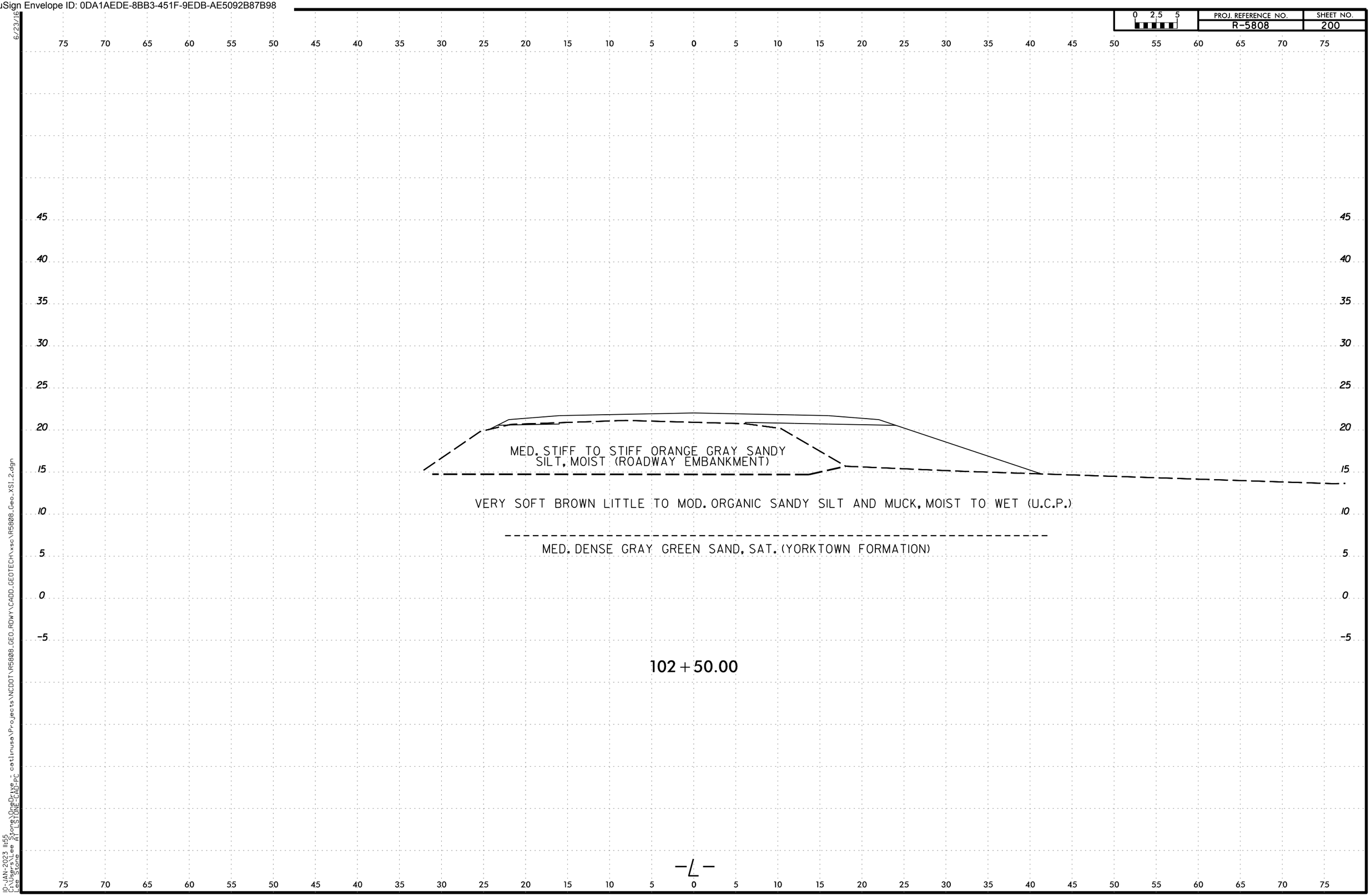
Lee Stone AT STONE-CAD-PC

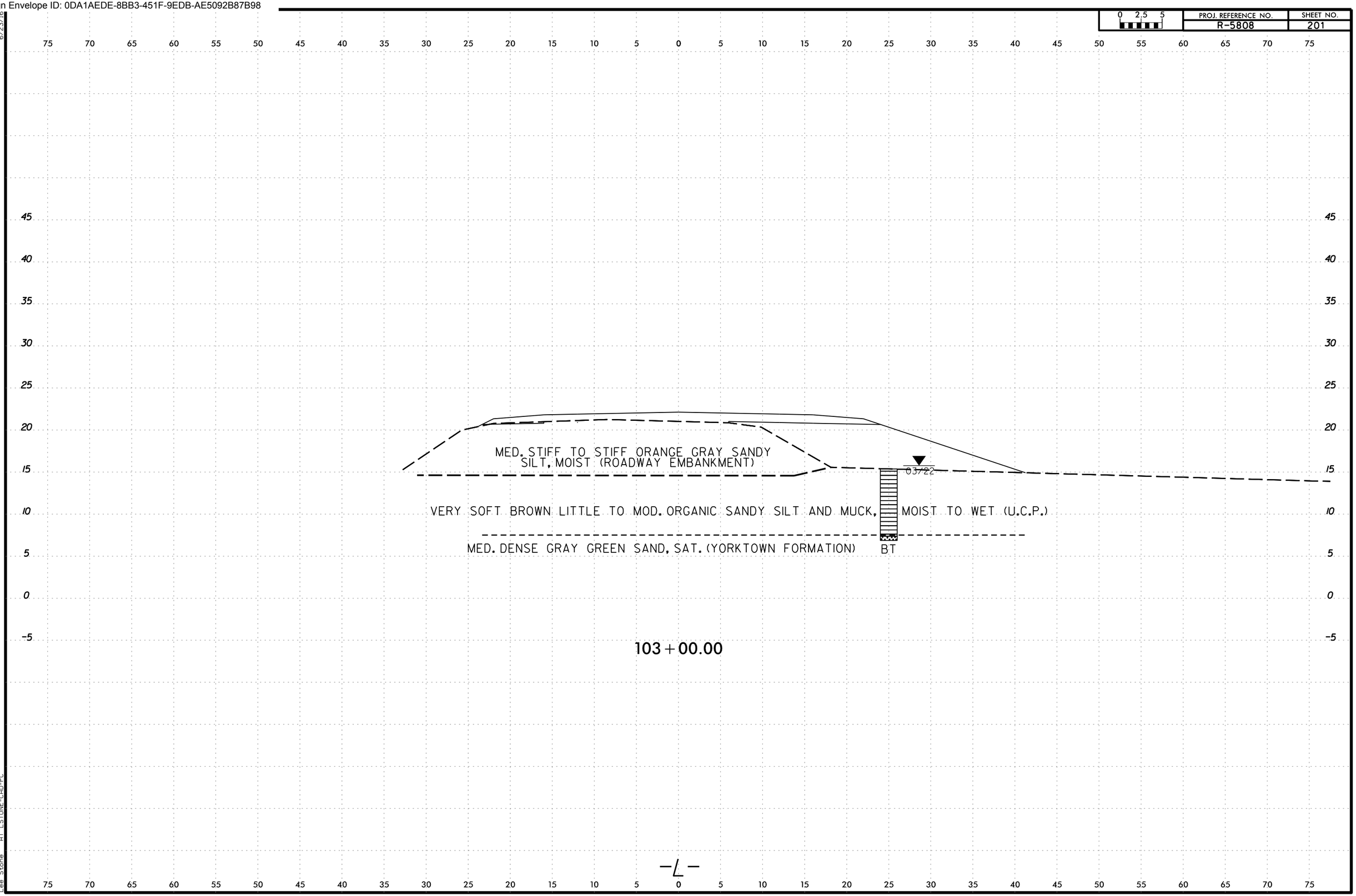
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	199



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	200



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	201



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	202

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

103+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	203

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

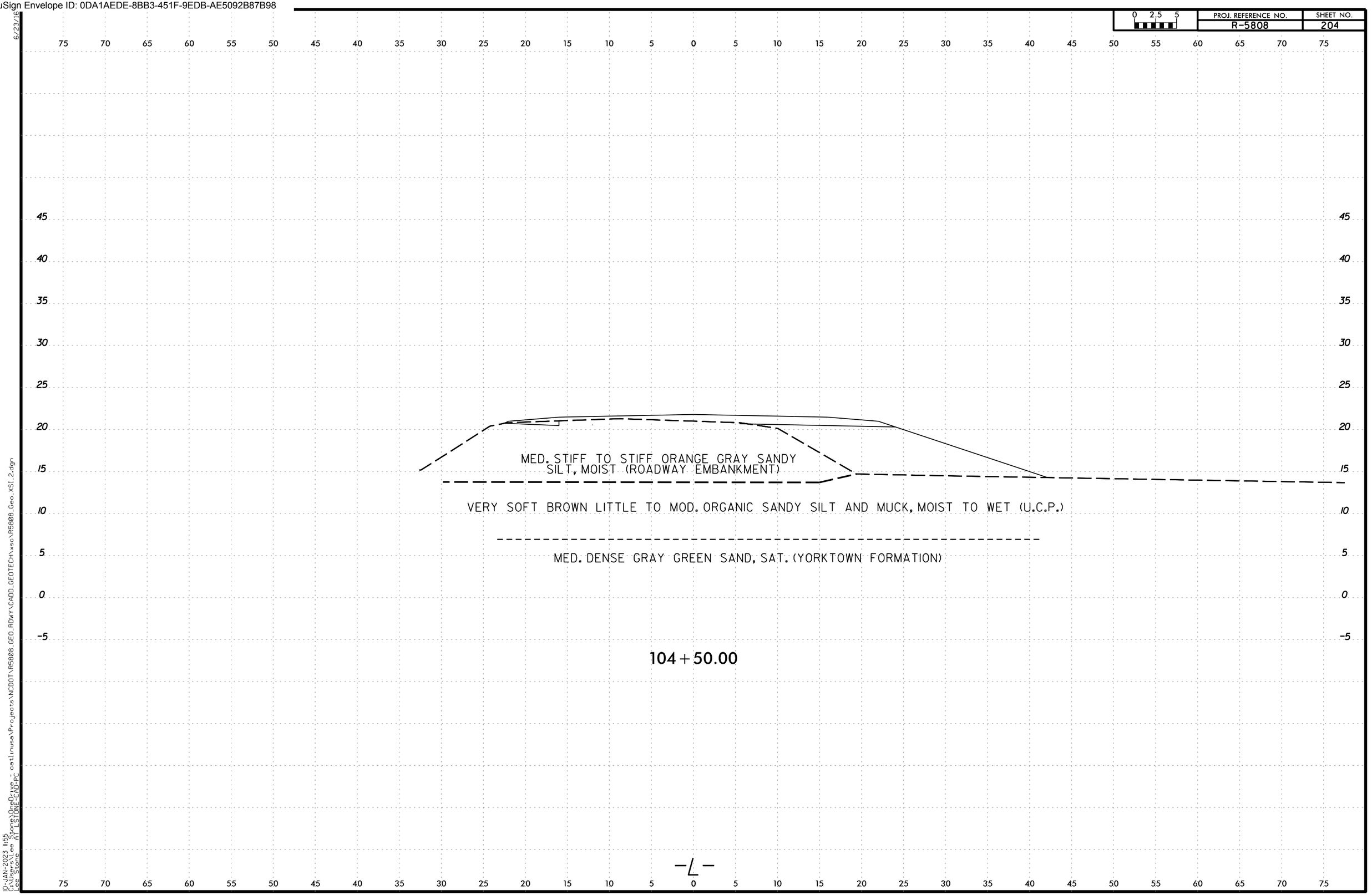
MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

104+00.00

-L-

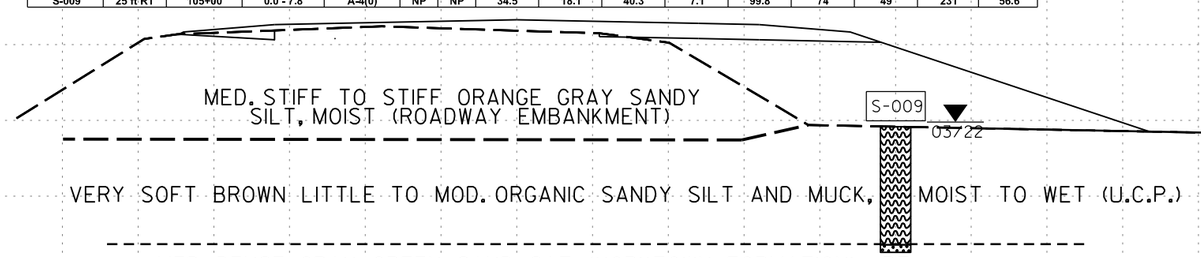
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	204



SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-009	25 ft RT	105+00	0.0 - 7.8	A-4(0)	NP	NP	34.5	18.1	40.3	7.1	99.8	74	49	231	56.6



105 + 00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	206

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

105+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	207

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

106 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	208

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

106 + 50.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	209

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03722

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

BT

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

107+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	210

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

107 + 50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	211

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ART. FILL)

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN LITTLE TO MOD. ORGANIC SANDY SILT AND MUCK, MOIST TO WET (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

108 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	212

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

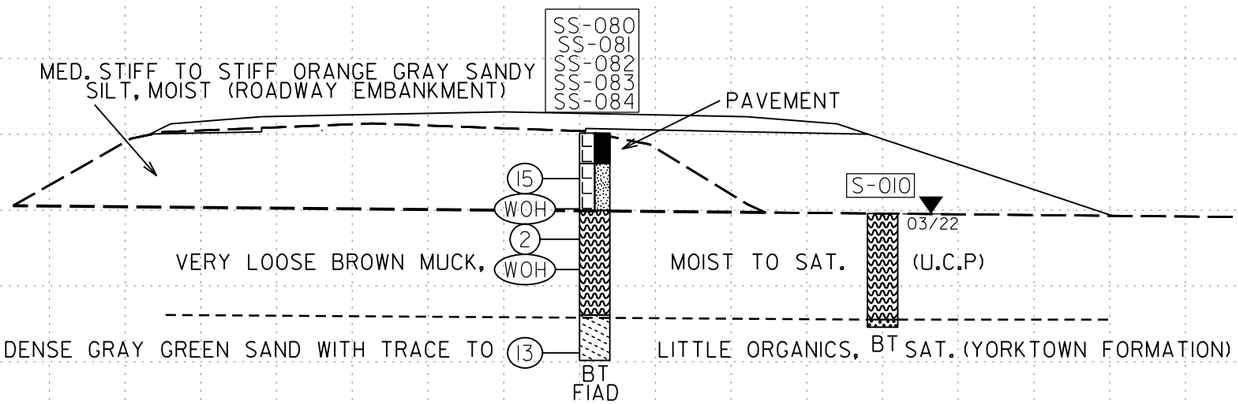
VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

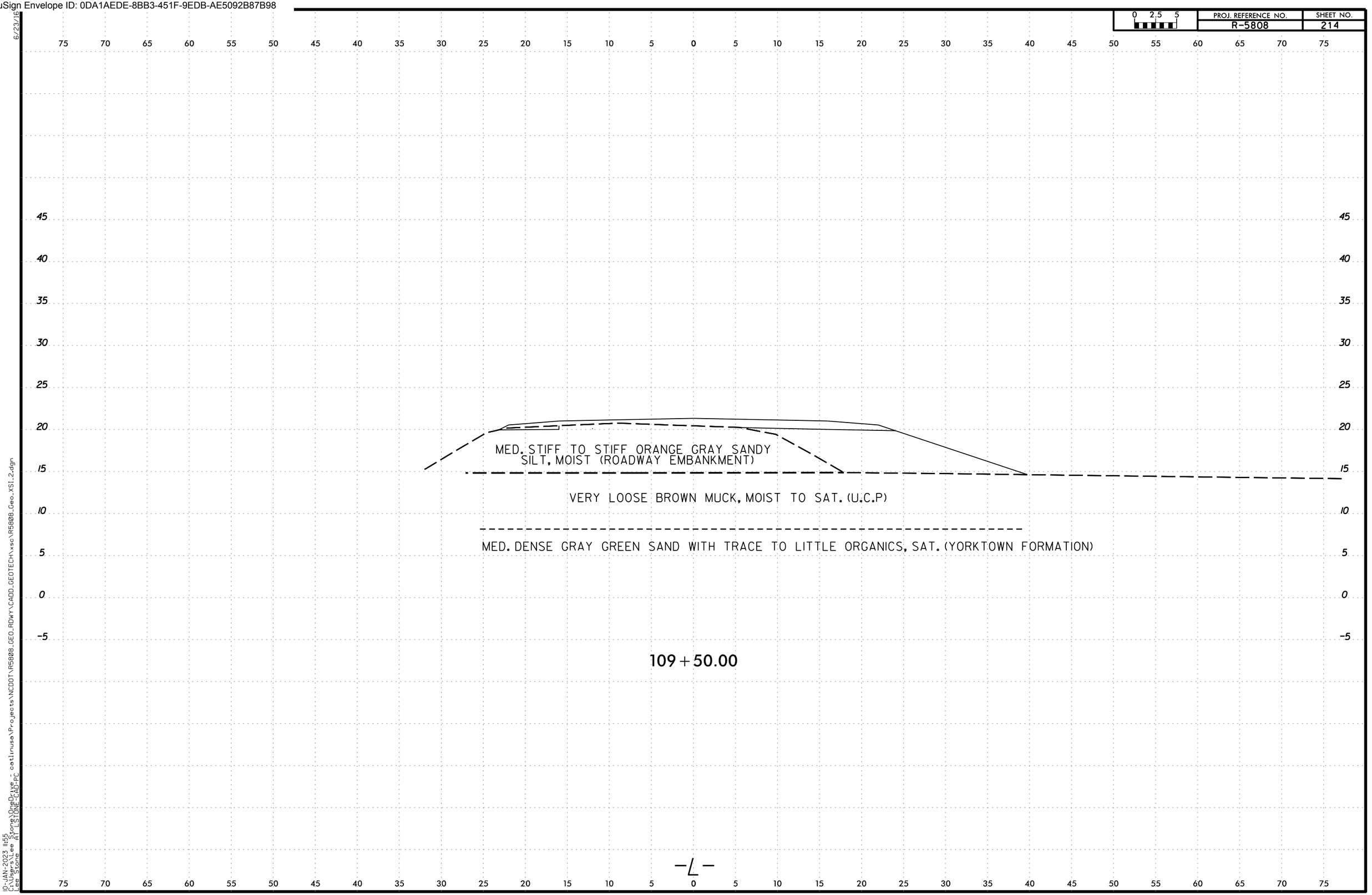
108+50.00

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-010	25 ft RT	109+00	0.0 - 7.0	A-4(0)	NP	NP	18.2	6.2	75.4	0.2	99.9	85	76	332	62.7
SS-080	6 ft RT	109+00	5.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72.3
SS-081	6 ft RT	109+00	6.0 - 8.0	A-2-4(0)	NP	NP	17.5	59.2	13.0	10.4	90.8	92	27	-	11.6
SS-082	6 ft RT	109+00	8.0 - 10.0	A-2-4(0)	NP	NP	22.8	50.9	18.4	7.8	87.1	86	29	-	20.2
SS-083	6 ft RT	109+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.8
SS-084	6 ft RT	109+00	13.5 - 15.0	A-2-4(0)	25	6	24.5	45.2	20.0	10.3	97.0	92	33	-	3.7



109+00.00



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	215

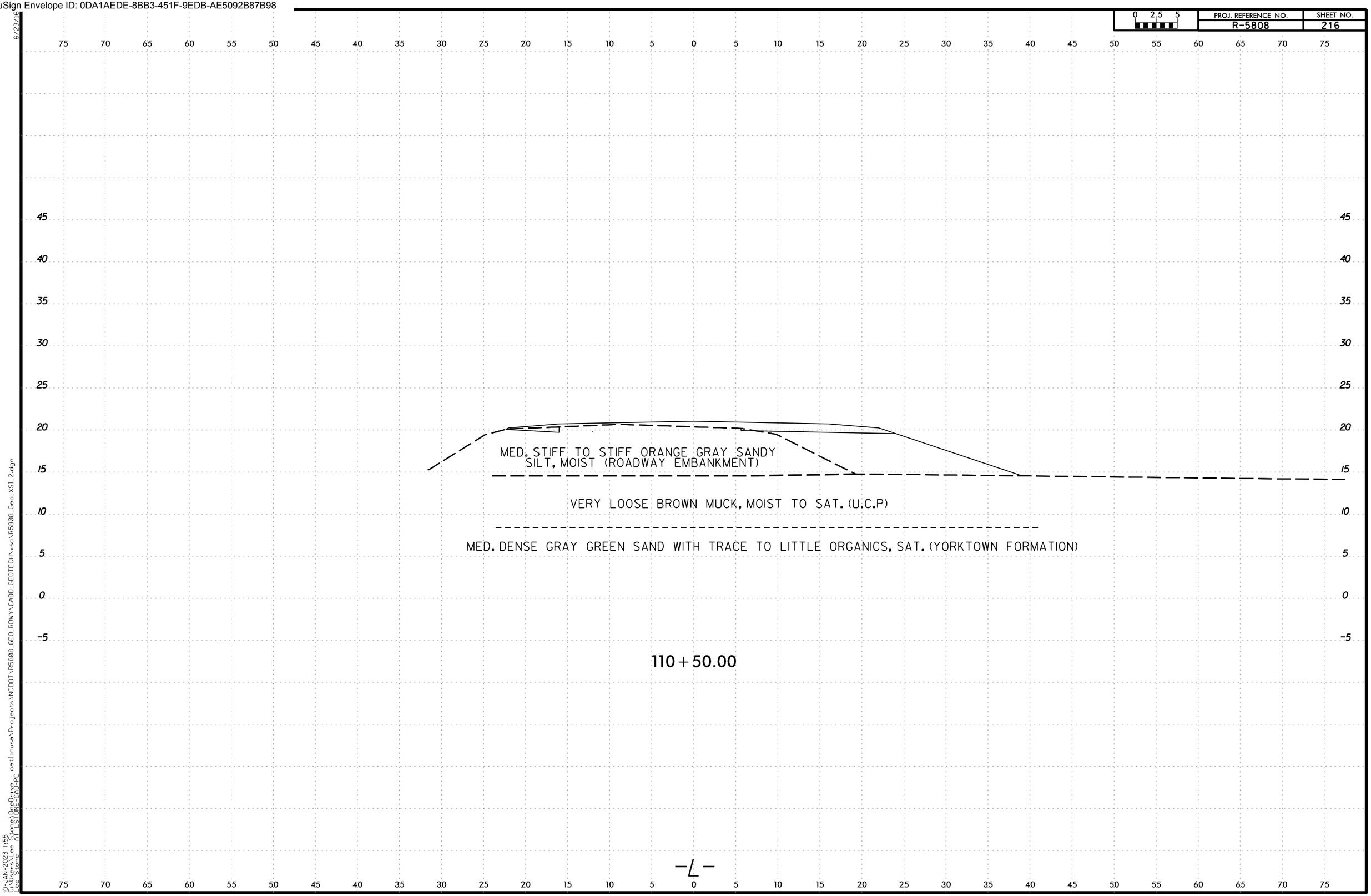
MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

110+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	216



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	217

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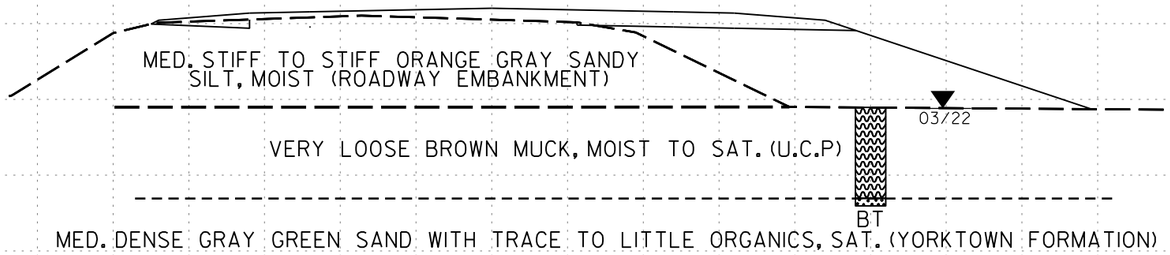
45 40 35 30 25 20 15 10 5 0 -5



111+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	218

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

111+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone ATLSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	219

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

112 + 00.00

—L—

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Lee Stone ATLSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	220

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

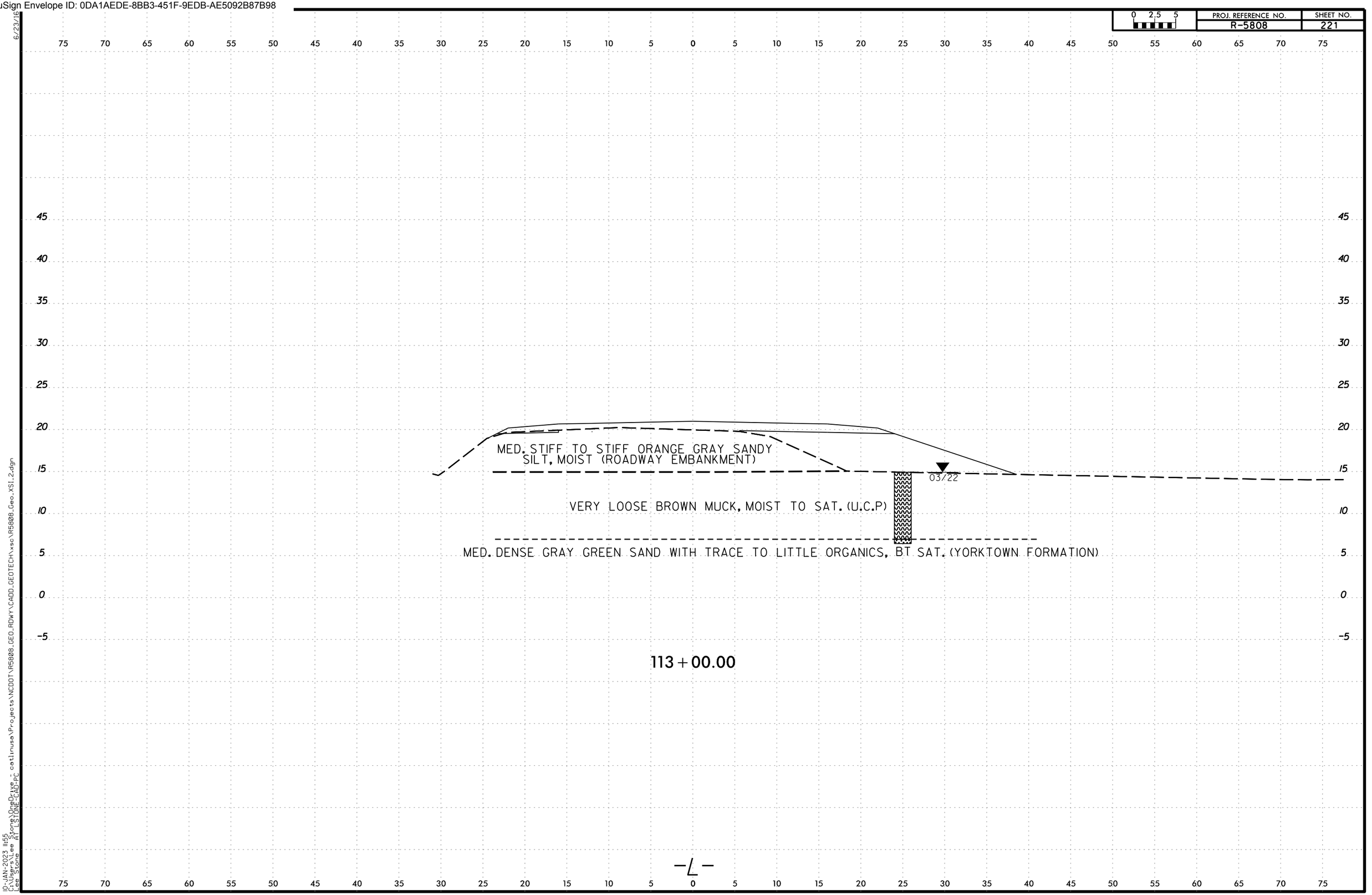
VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

112 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	221



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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	222

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

113 + 50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	223

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

114 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	224

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND WITH TRACE TO LITTLE ORGANICS, SAT. (YORKTOWN FORMATION)

114 + 50.00

—L—

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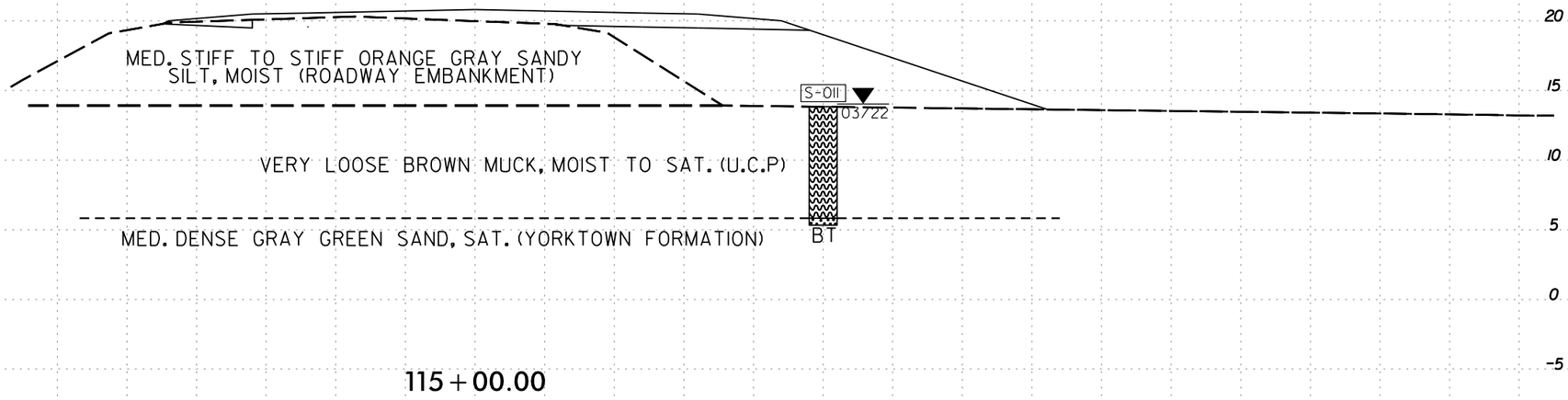
Lee Stone AT LSTONE-CAD-PC

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	225

SOIL TEST RESULTS

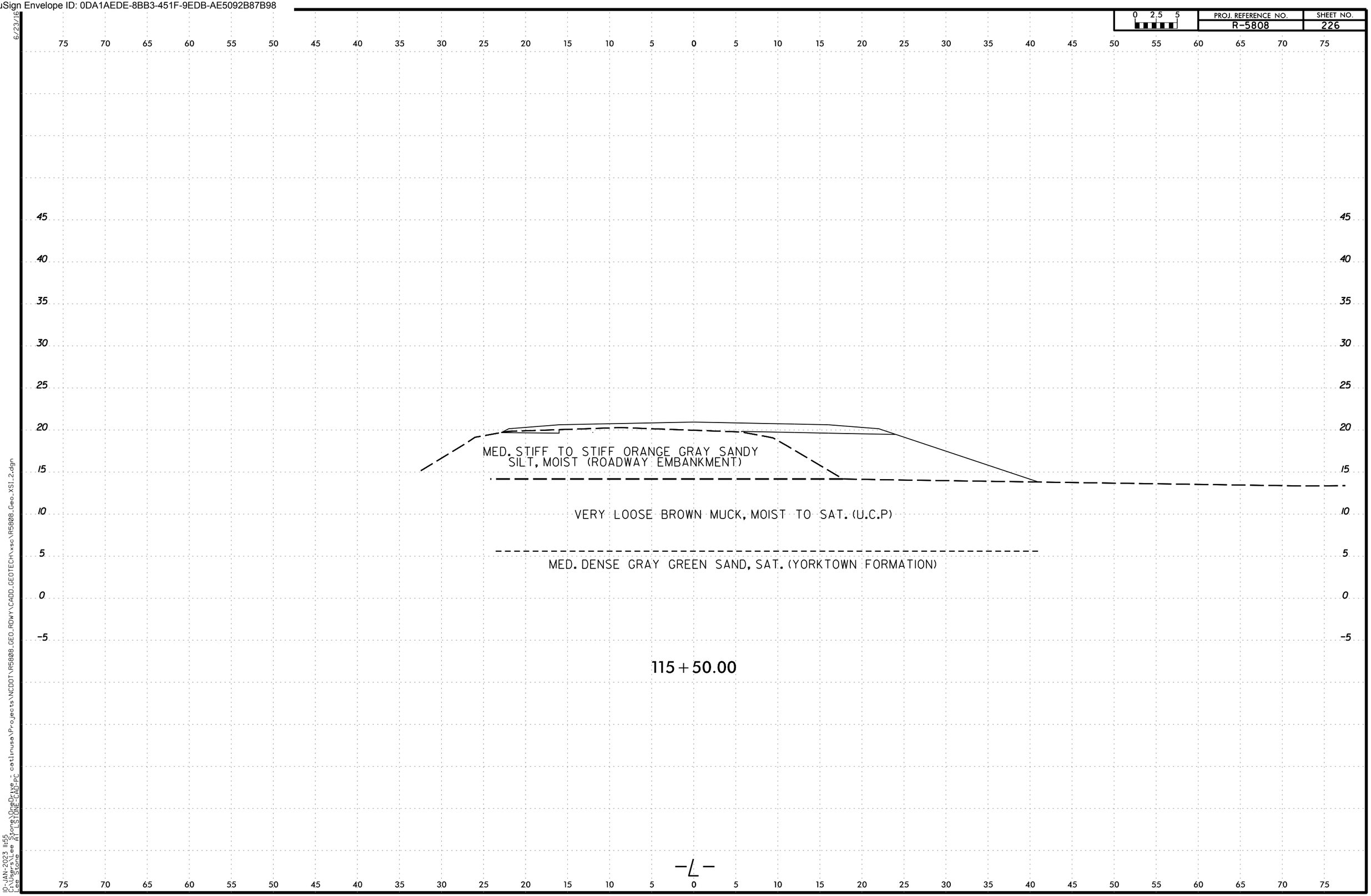
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-011	25 ft RT	115+00	0.0 - 8.0	A-2-4(0)	NP	NP	25.4	45.4	24.8	4.5	99.3	89	32	278	21.7



115 + 00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	226



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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	227

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

116 + 00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	228

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

116+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	229

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN BT FORMATION)

117+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	230

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

117 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	231

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

118+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	232

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

118 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	233

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

BT

119 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	234

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

119 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	235

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

120+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	236

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

120+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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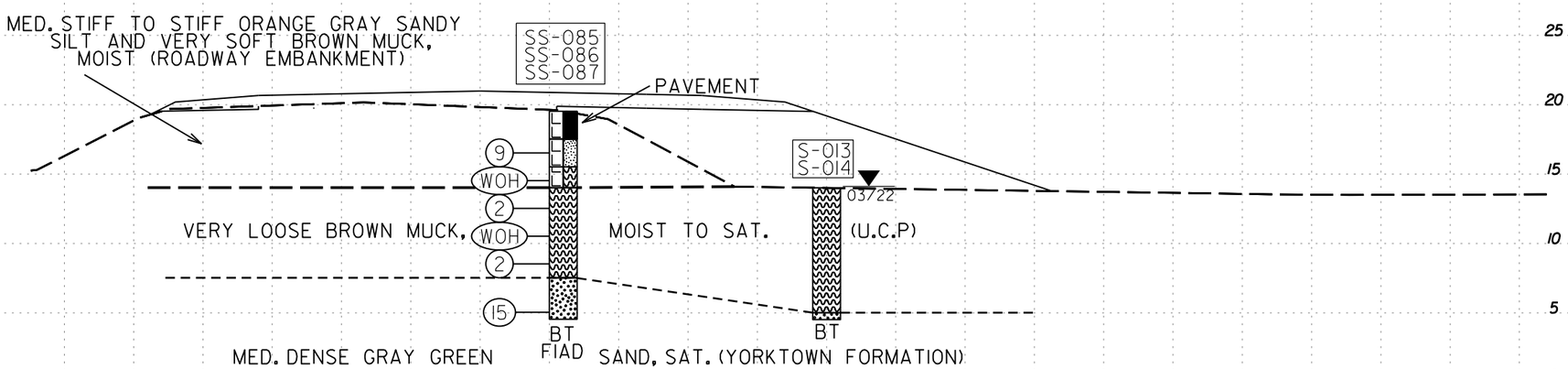
Lee Stone AT LSTONE_CAD-PC

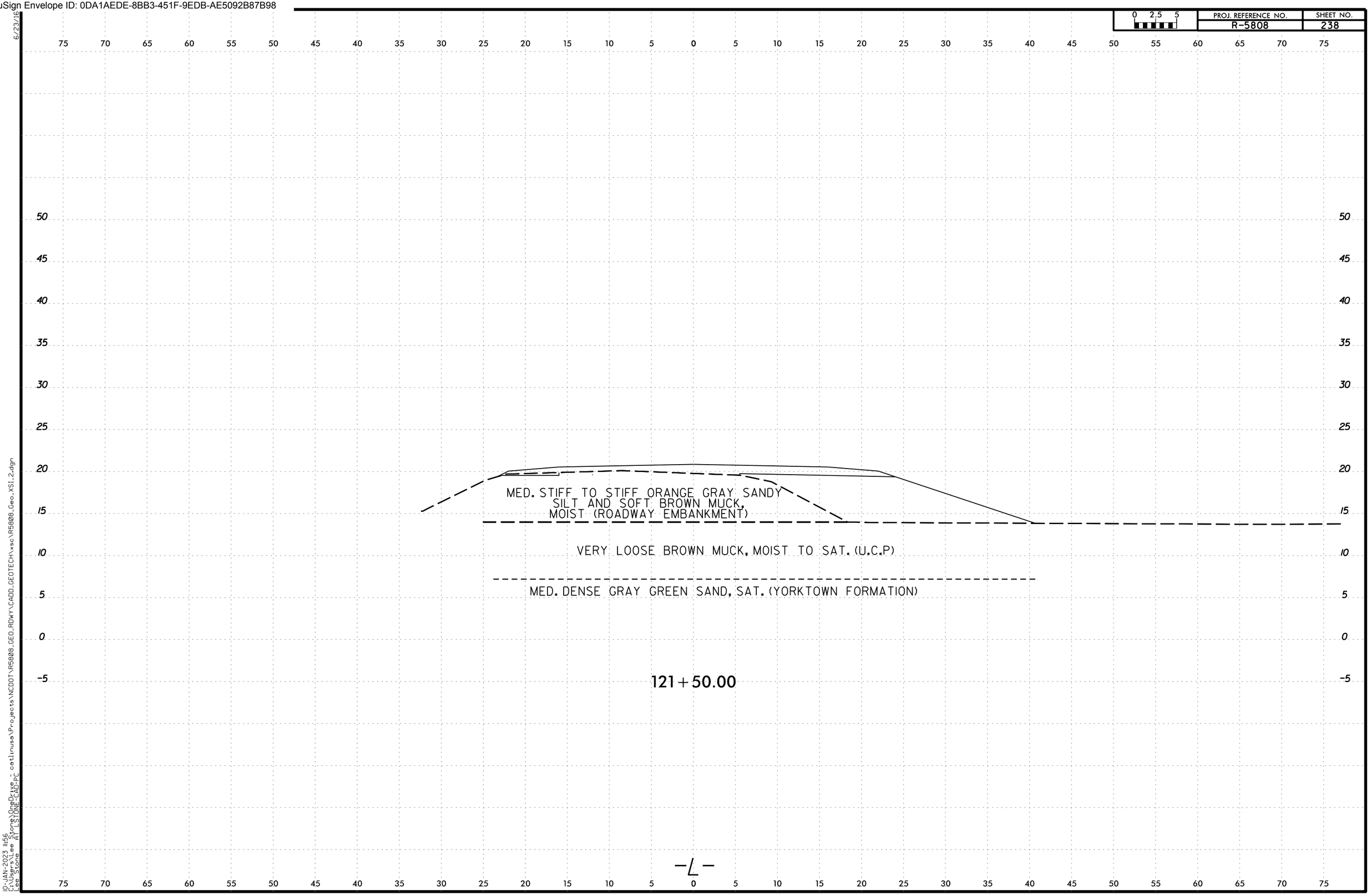
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-013	25 ft RT	121+00	0.0 - 9.0	()	NEM	-	55.2	14.5	30.2	0.1	70.4	55	32	254	85.7
S-014	25 ft RT	121+00	9.0 - 9.5	A-2-4(0)	NEM	NEM	34.9	44.7	8.1	12.4	99	84	24	-	-
SS-085	25 ft RT	121+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	10.5
SS-086	25 ft RT	121+00	6.0 - 8.0	-	NP	NP	-	-	-	-	NEM	NEM	NEM	-	50.2
SS-087	25 ft RT	121+00	14.0 - 15.0	A-2-4(0)	NP	NP	36.3	48.9	10.0	4.8	99.7	88	20	-	-



121+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	238



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	239

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

122 + 00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	240

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

122 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	241

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

BT

123+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	242

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

123+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	243

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

124+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	244

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

124+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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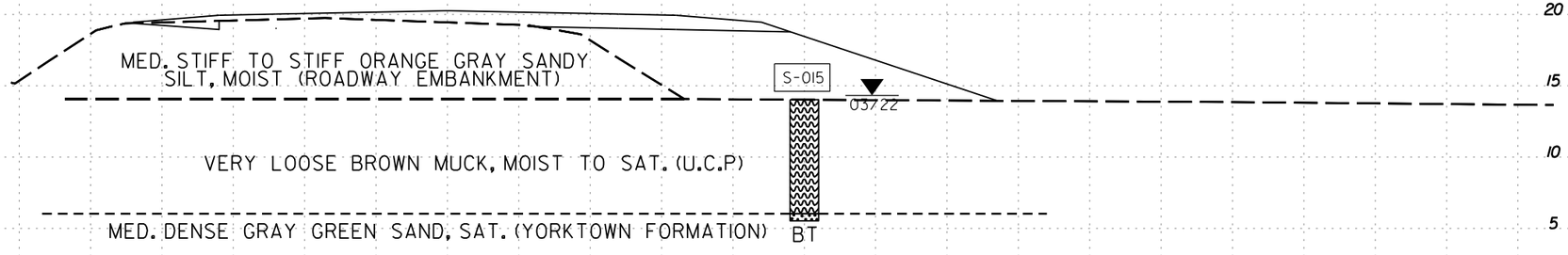
Lee Stone AT LSTONE_CAD_PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-015	25 ft RT	125+00	0.0 - 8.0	A-2-4(0)	NP	NP	73.7	9.4	16.7	0.2	99.7	35	18	575	83.8



125+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	246

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

125+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	247

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

126+00.00

$-\not{L}-$

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	248

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

126 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	249

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

127+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	250

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

127+50.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	251

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

128+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	252

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

128 + 50.00

$-\mathit{L}-$

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	253

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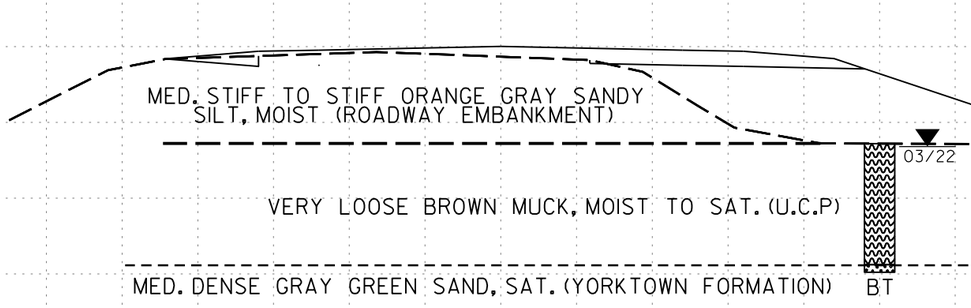

129 + 00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	254

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

129+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	255

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

130+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10-JAN-2023 11:56
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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	256

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

130+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	257

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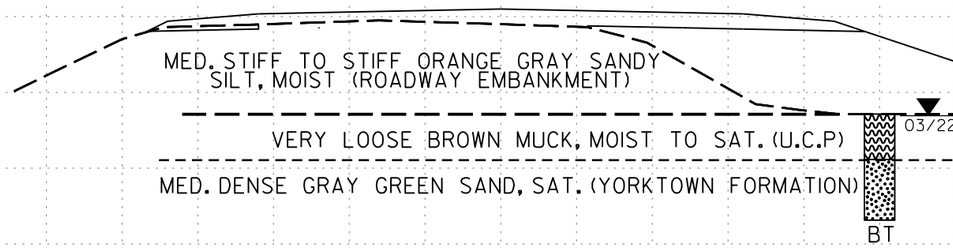
45 40 35 30 25 20 15 10 5 0 -5



131+00.00

—L—

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	258

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

131+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	259

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

132 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	260

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

132 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	261

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION) BT

133+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	262

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45
40
35
30
25
20
15
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5
0
-5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

133 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	263

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

134+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	264

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

134 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	265

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

03/22

BT

135+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	266

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

135+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	267

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TO STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

136+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	268

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

136 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

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45 40 35 30 25 20 15 10 5 0 -5

137 + 00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	270

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

137 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	271

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

138+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	272

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45
40
35
30
25
20
15
10
5
0
-5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

138+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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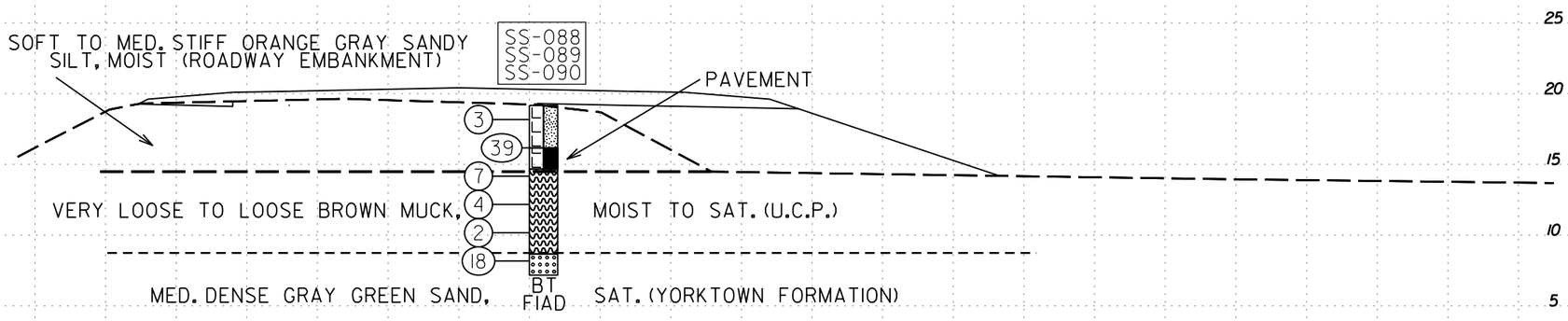
Lee Stone AT LSTONE_CAD_PC

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

SOIL TEST RESULTS

SAMPLE NUMBER	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-088	6 ft RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60.5
SS-089	6 ft RT	139+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	29.8
SS-090	6 ft RT	139+00	10.5 - 12.0	A-3(0)	NP	NP	47.1	49.2	3.6	0.1	99.3	81	4	-	-



139+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	274

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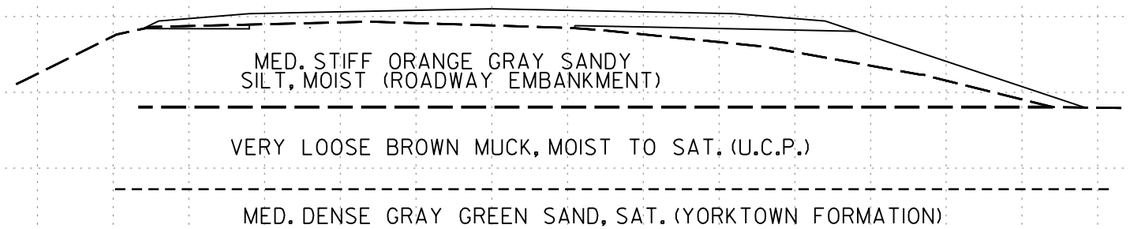
45 40 35 30 25 20 15 10 5 0 -5



139 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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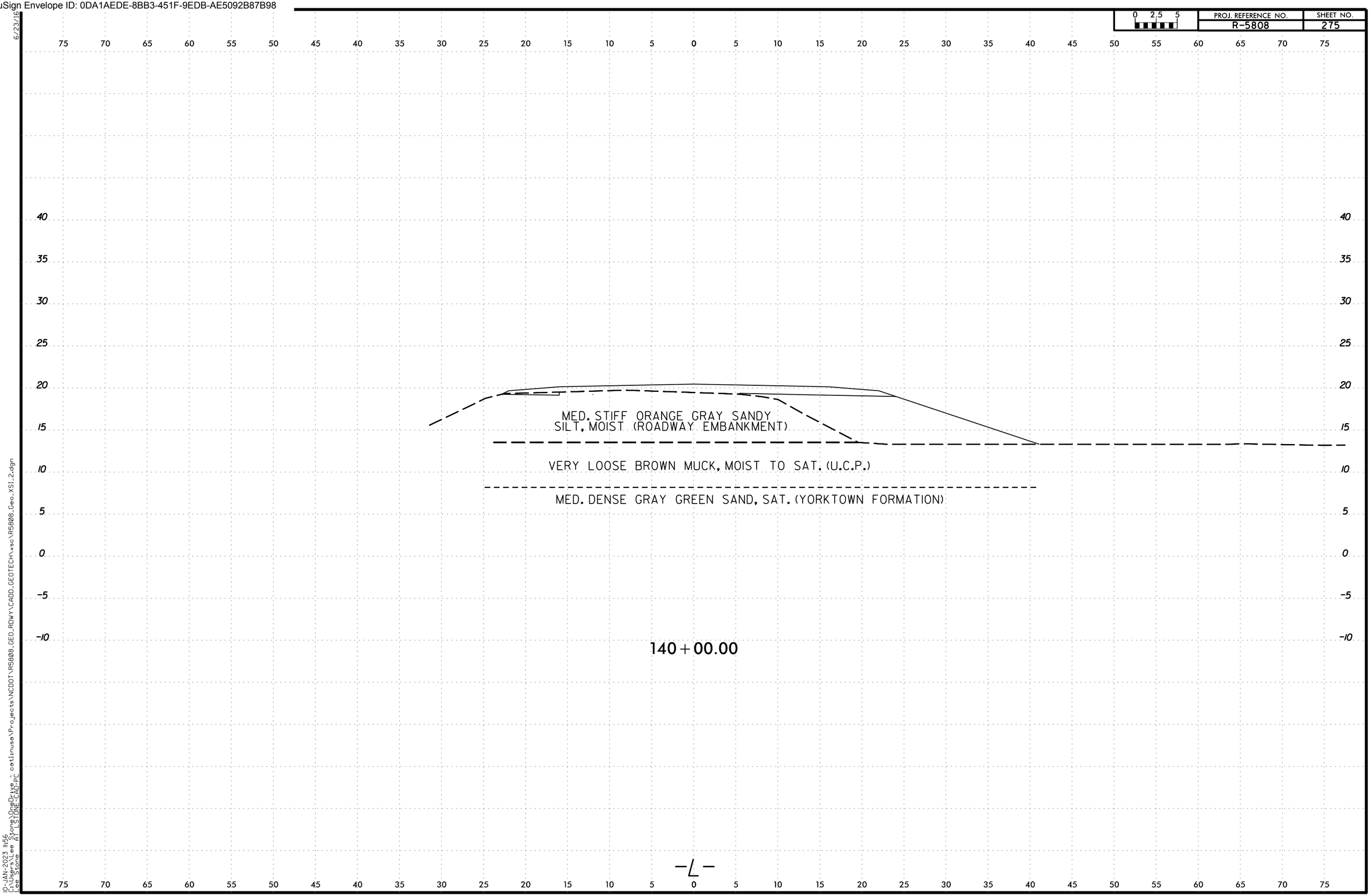
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	275



6/23/16

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	276

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

140+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	277

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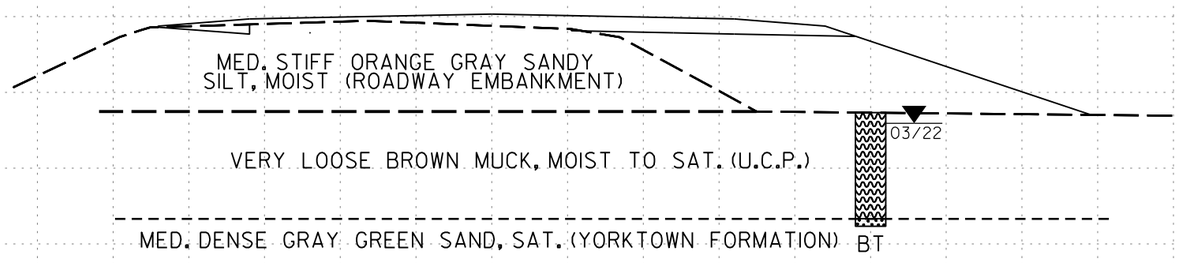
45 40 35 30 25 20 15 10 5 0 -5



141+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	278

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

141+50.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	279

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

142 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10-JAN-2023 11:56
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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	280

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

142 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	281

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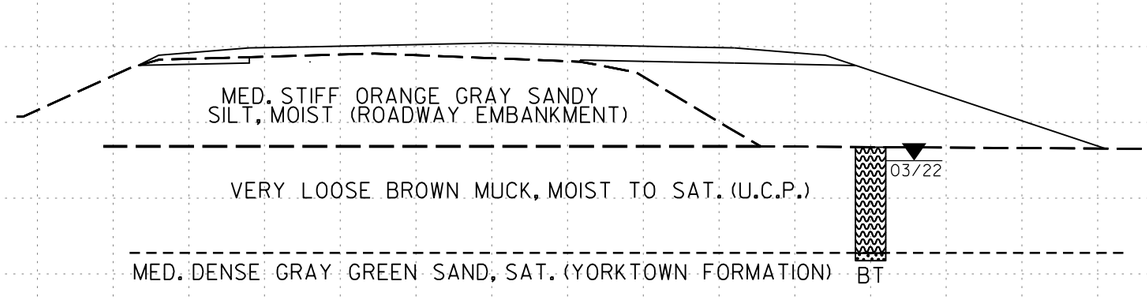
45 40 35 30 25 20 15 10 5 0 -5



143 + 00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	282

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

143 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	283

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

144+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	284

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

144+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	285

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-030	25 ft RT	145+00	0.0 - 3.0	()	NEM	-	32.9	13.9	48.6	4.6	99.3	74	55	265	64.9

145+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

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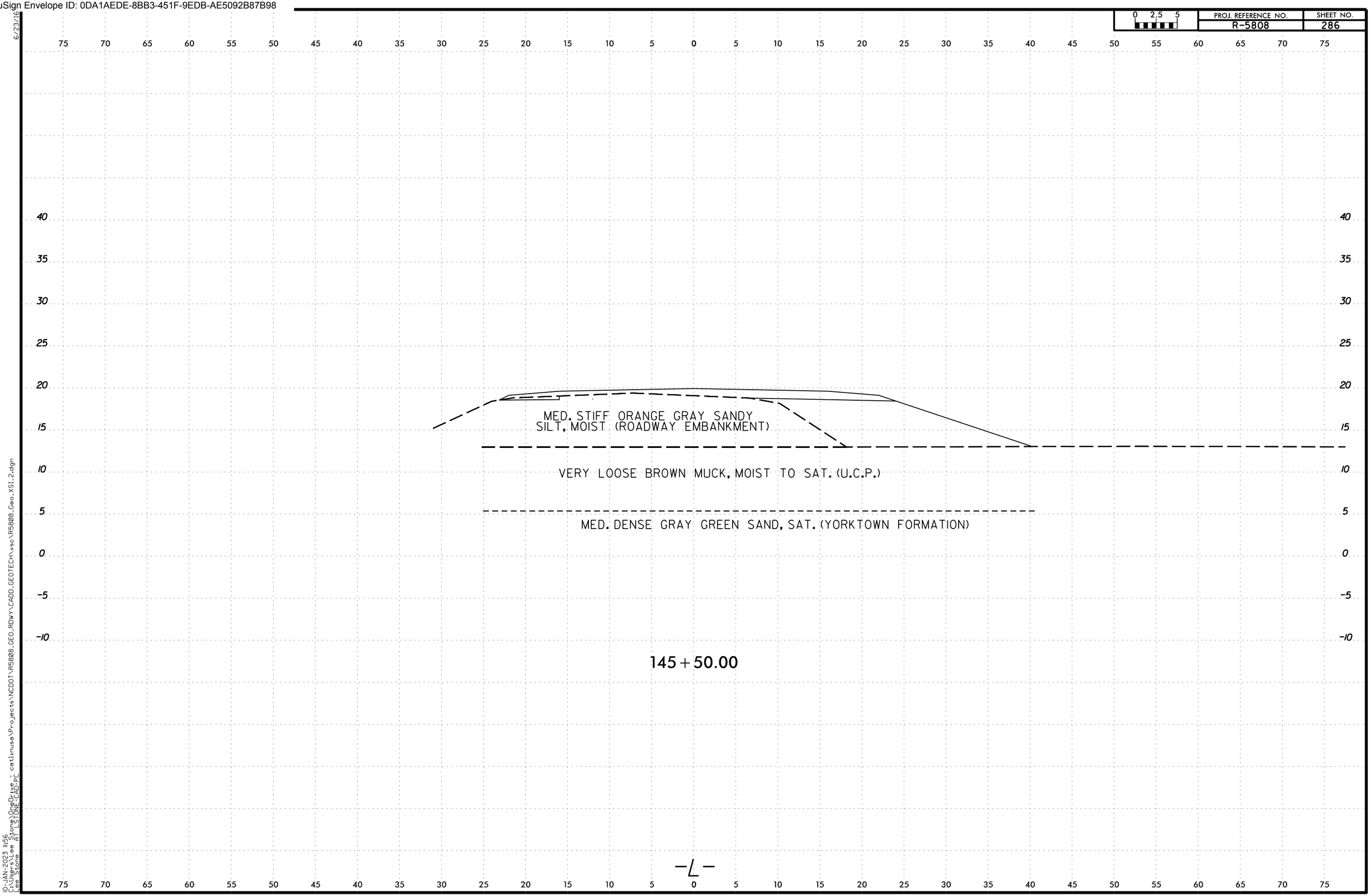
	R-5808	286



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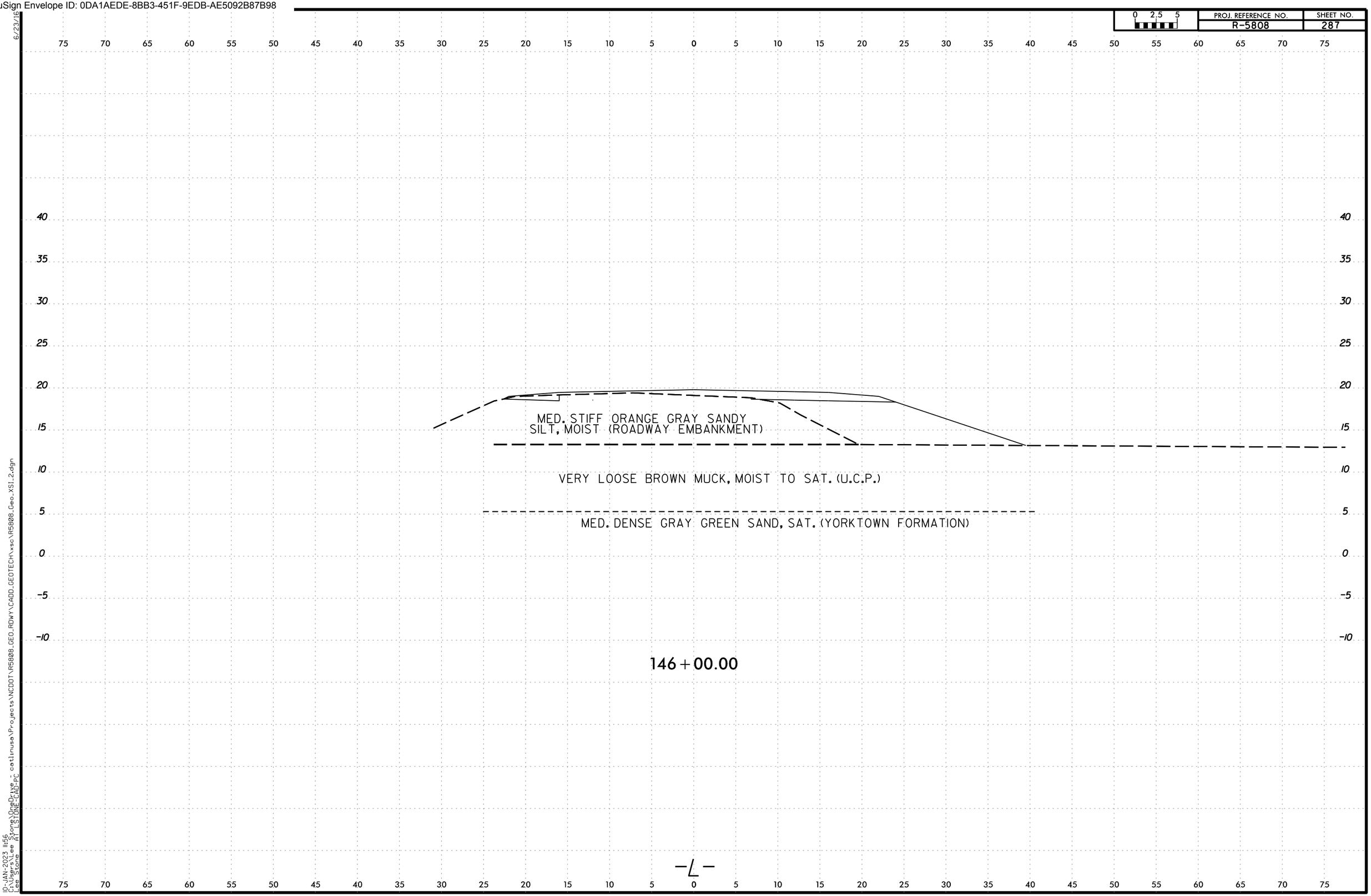

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	288

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

146+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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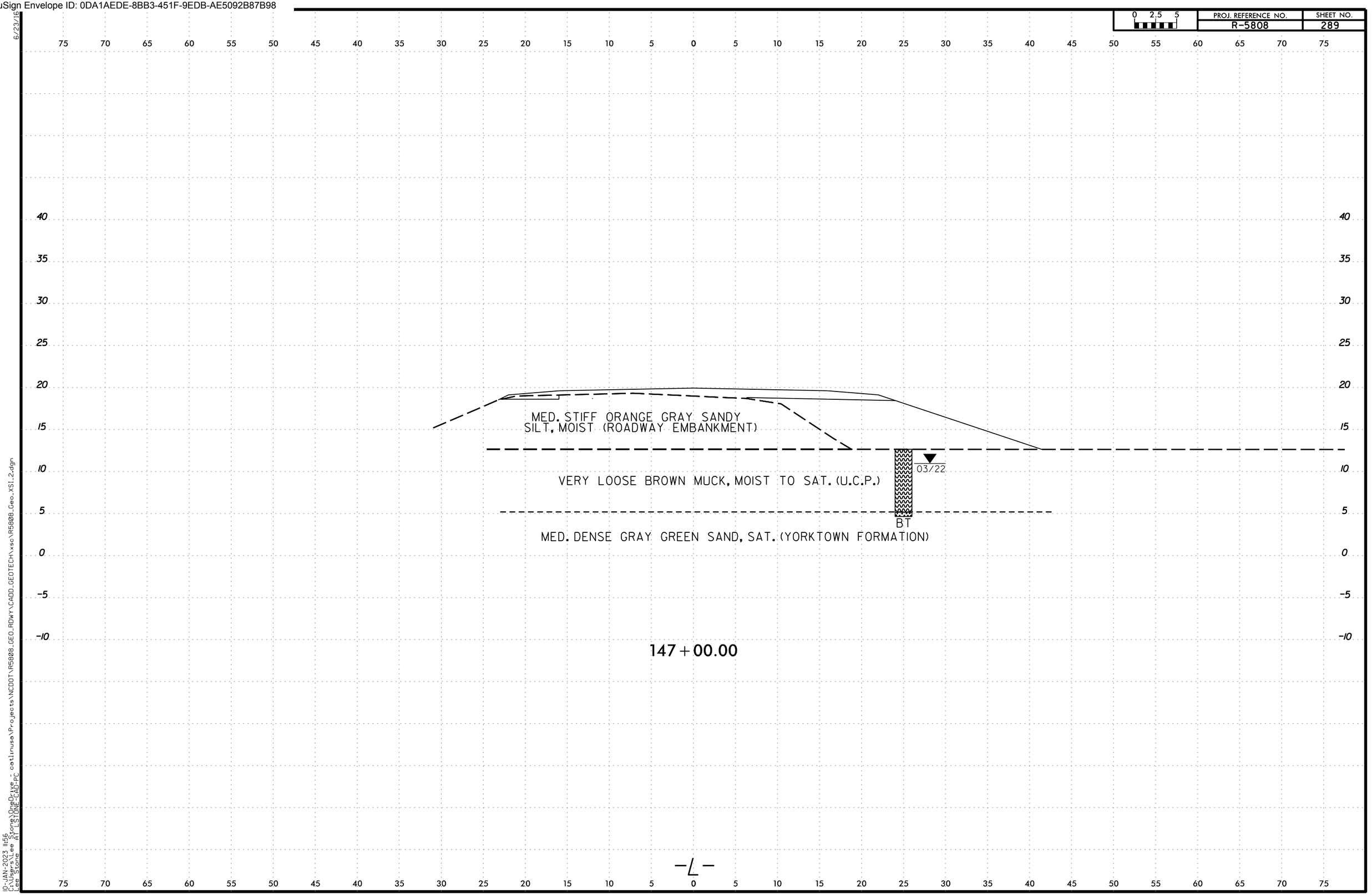
Lee Stone AT LSTONE-CAD-PC



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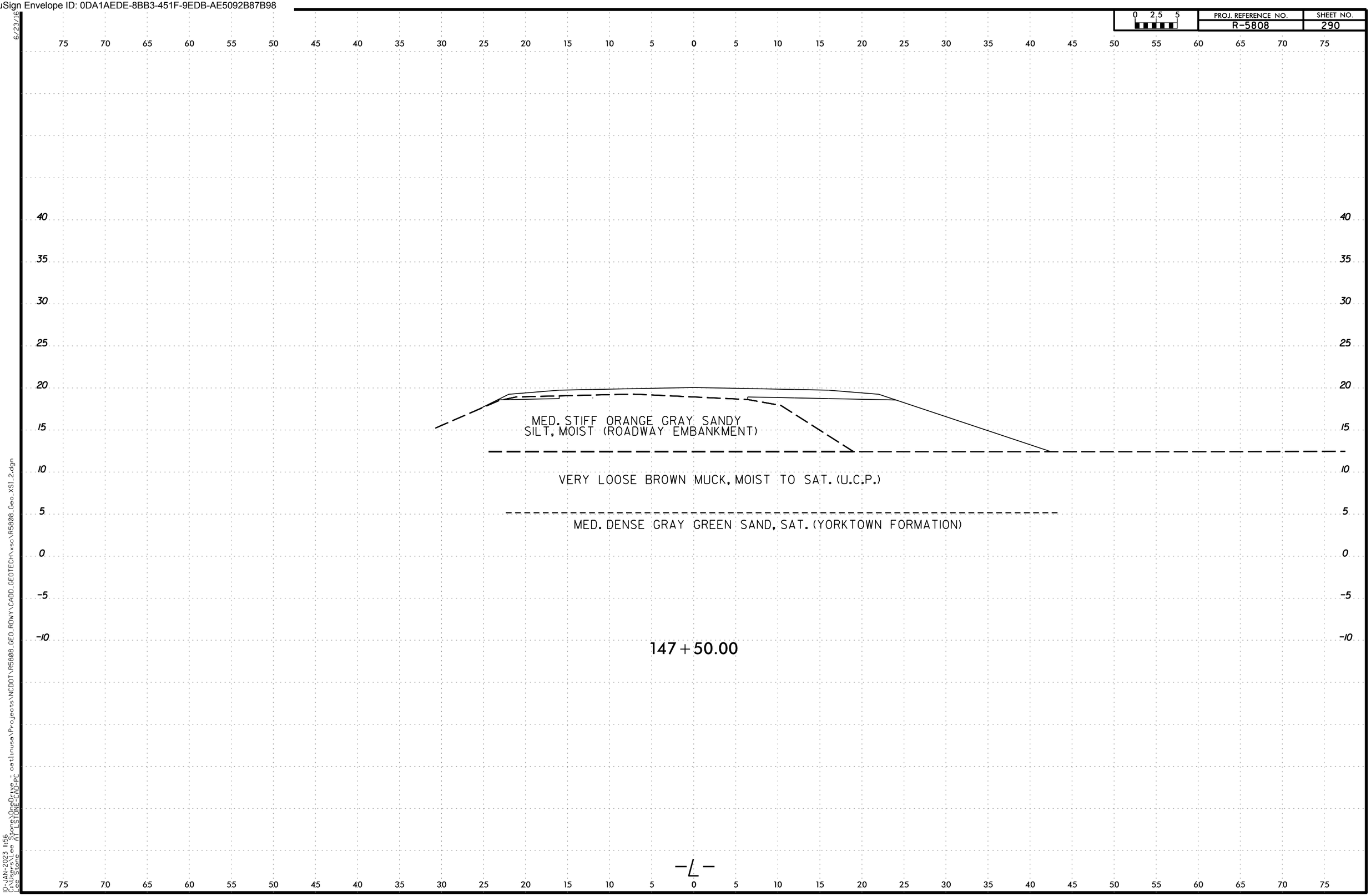

6/23/16

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Lee Stone RT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	291

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

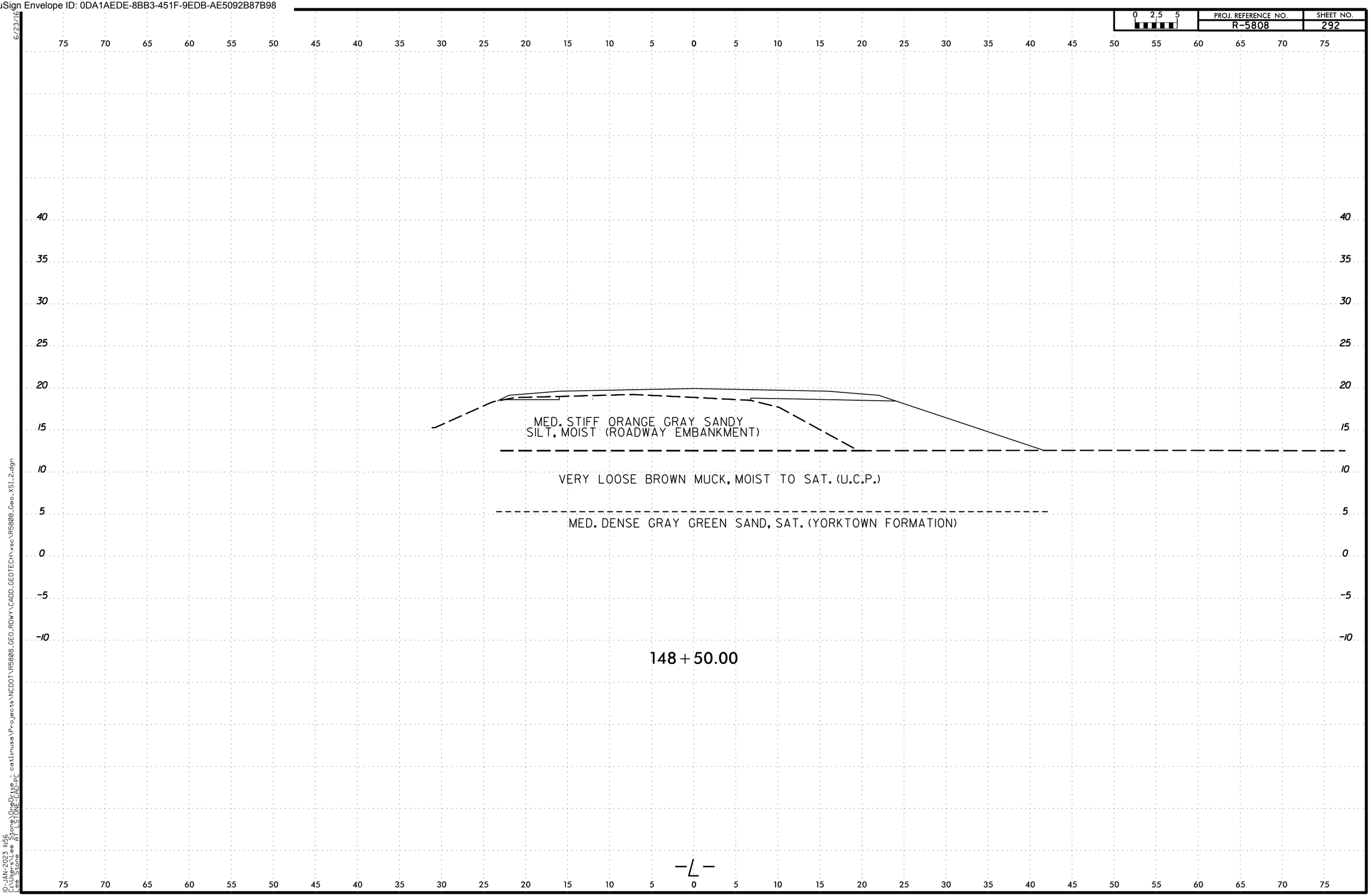
148 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10-JAN-2023 11:56
C:\Users\Lee Stone\OneDrive - catlinusa\Projects\NCDOT\R5808_GEO_RDWY\CADD_GEOTECH\xsc\R5808_Geo_XSI_2.dgn
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	292



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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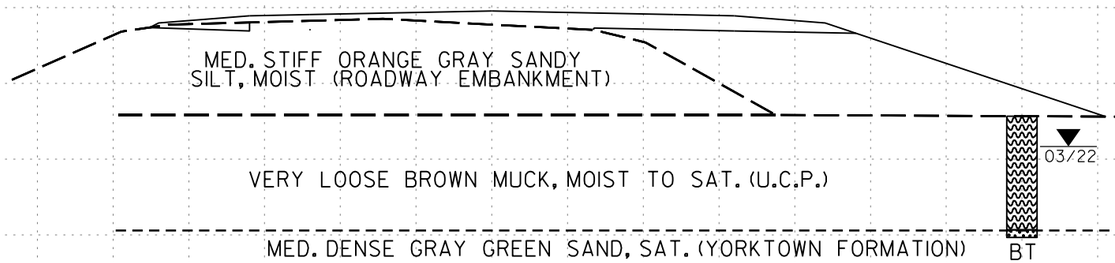
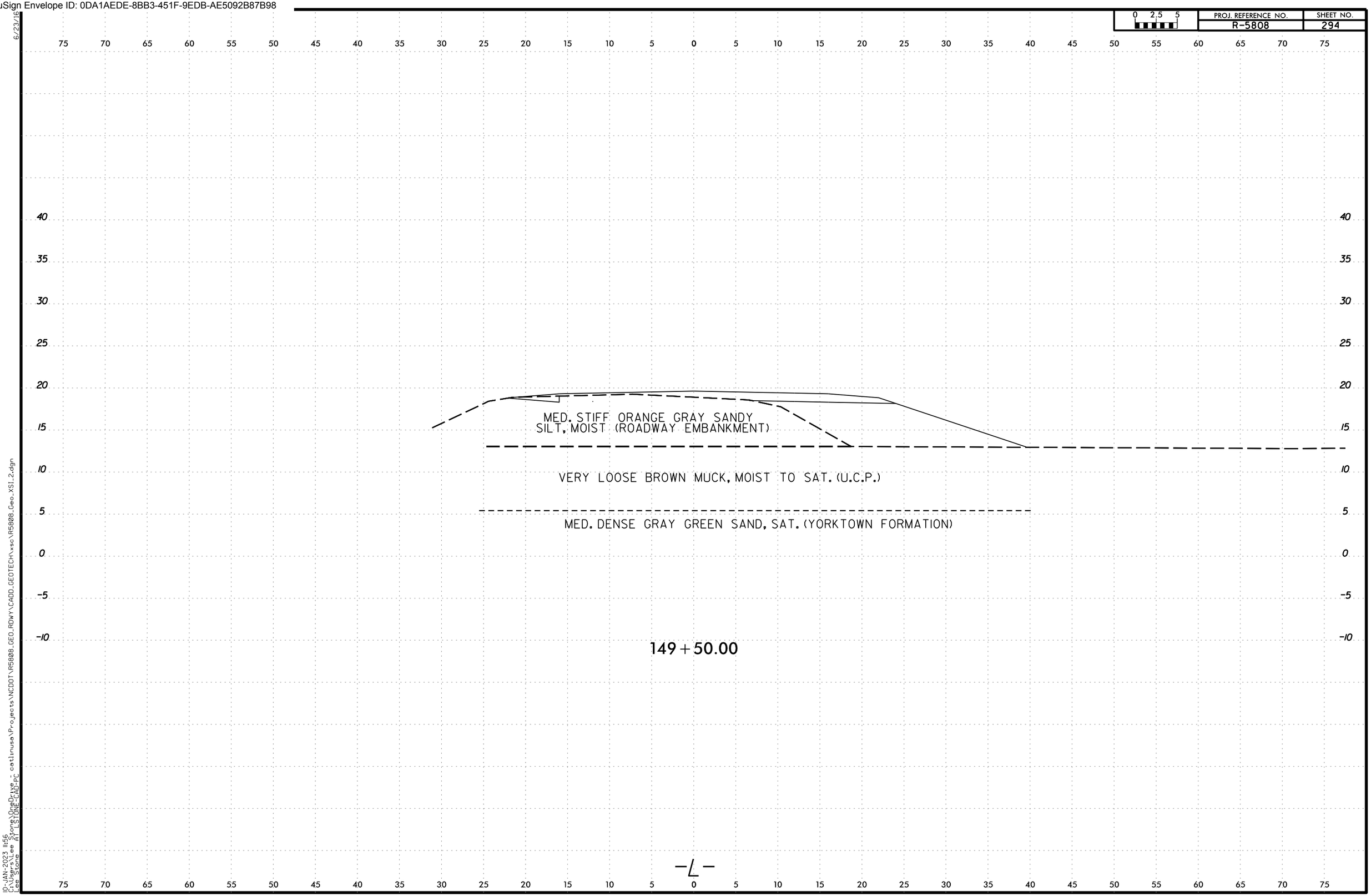


149 + 00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	294



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	295

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF ORANGE GRAY SANDY
SILT, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

150+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	296

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

150+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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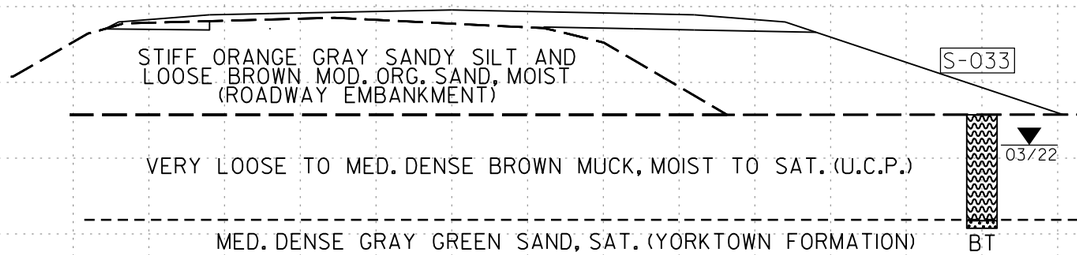
Lee Stone AT STONE CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-033	35 ft RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	436	73.4



151+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	298

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

151+50.00

-L-

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	299

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45 40 35 30 25 20 15 10 5 0 -5 -10

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

152+00.00

-L-

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	300

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

152 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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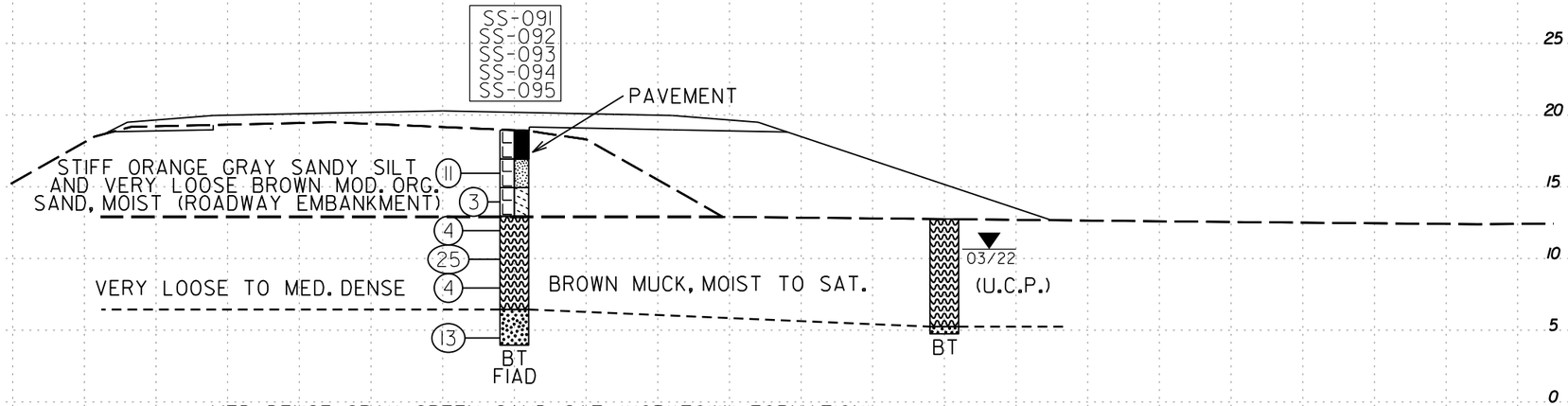
Lee Stone AT LSTONE_CAD_PC

SOIL TEST RESULTS

SAMPLE NUMBER	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-091	35 ft RT	153+00	4.0 - 6.0	A-2-4(0)	NP	NP	24.4	48.1	19.0	8.4	97.2	90	31	-	7.8
SS-092	35 ft RT	153+00	6.0 - 8.0	()	NEM	-	22.5	20.3	52.8	4.4	91.0	84	60	-	44.0
SS-093	35 ft RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	51.8
SS-094	35 ft RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	73.9
SS-095	35 ft RT	153+00	13.5 - 15.0	A-2-4(0)	NP	NP	30.5	49.6	10.9	9.0	99	88	22	-	-



153+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	302

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

153 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	303

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

154 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	304

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

154 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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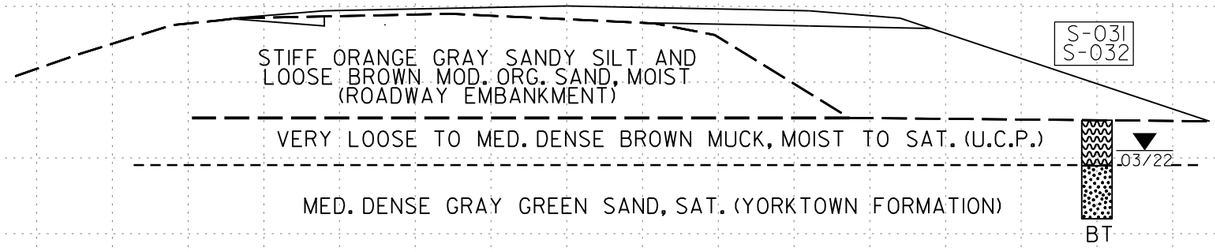
Lee Stone AT LSTONE_CAD_PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-031	35 ft RT	155+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	78.7
S-032	35 ft RT	155+00	3.0 - 6.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99.8	97	11	-	-



155+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	306

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

155 + 50.00

-L-

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	307

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

156 + 00.00

-L-

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	308

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

156 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	309

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

03/22

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

BT

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

157+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	310

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

157+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	311

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50 45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

158+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	312

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STIFF ORANGE GRAY SANDY SILT AND
LOOSE BROWN MOD. ORG. SAND, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

158+50.00

-L-

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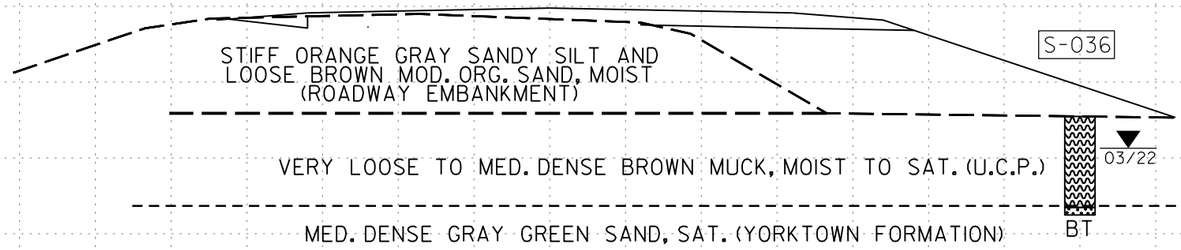
Lee Stone AT LSTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-036	35 ft RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	77.4



159+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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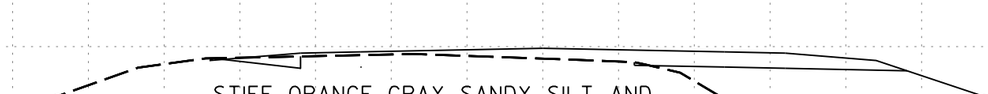

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

159+50.00

-L-

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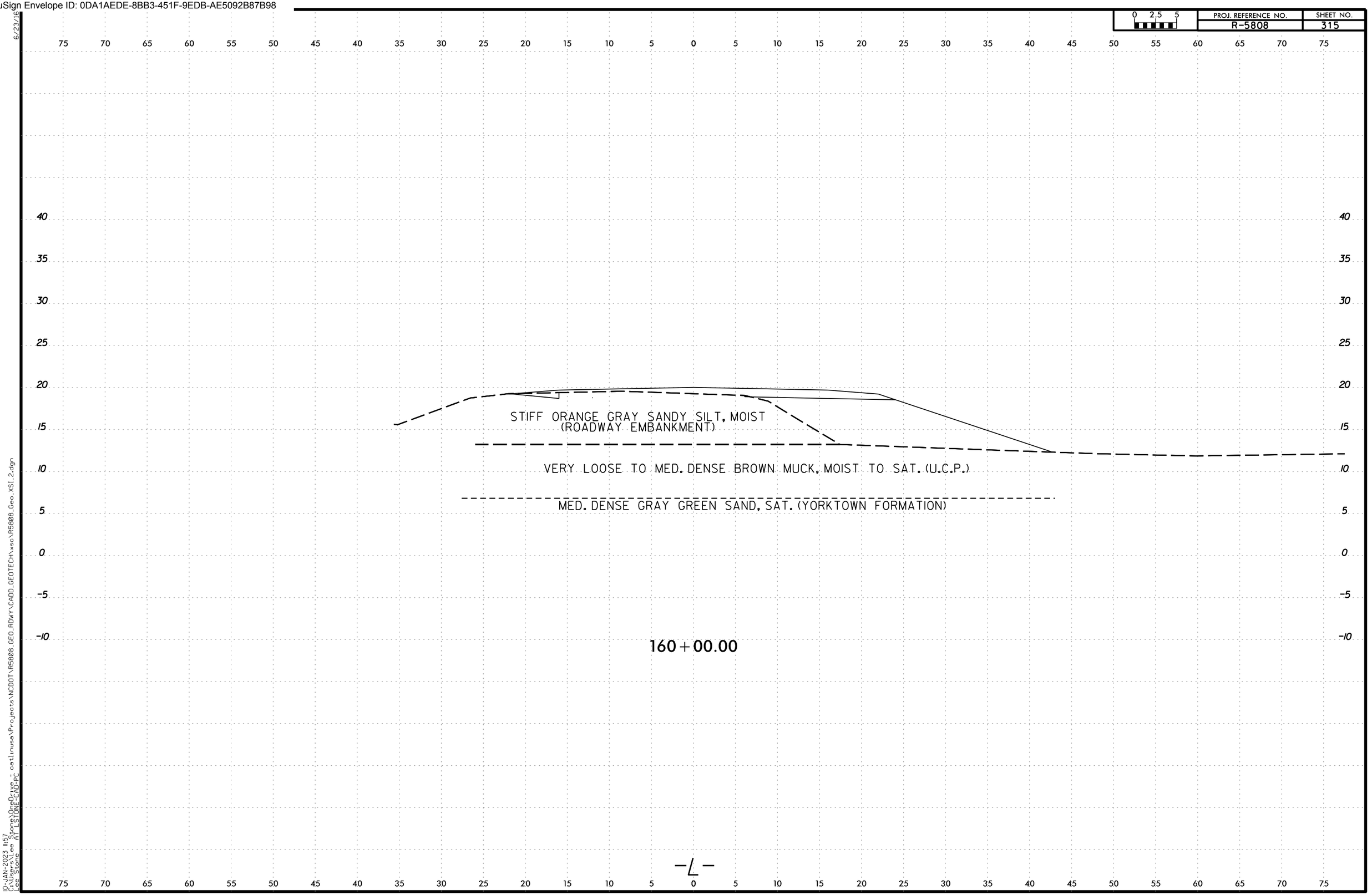

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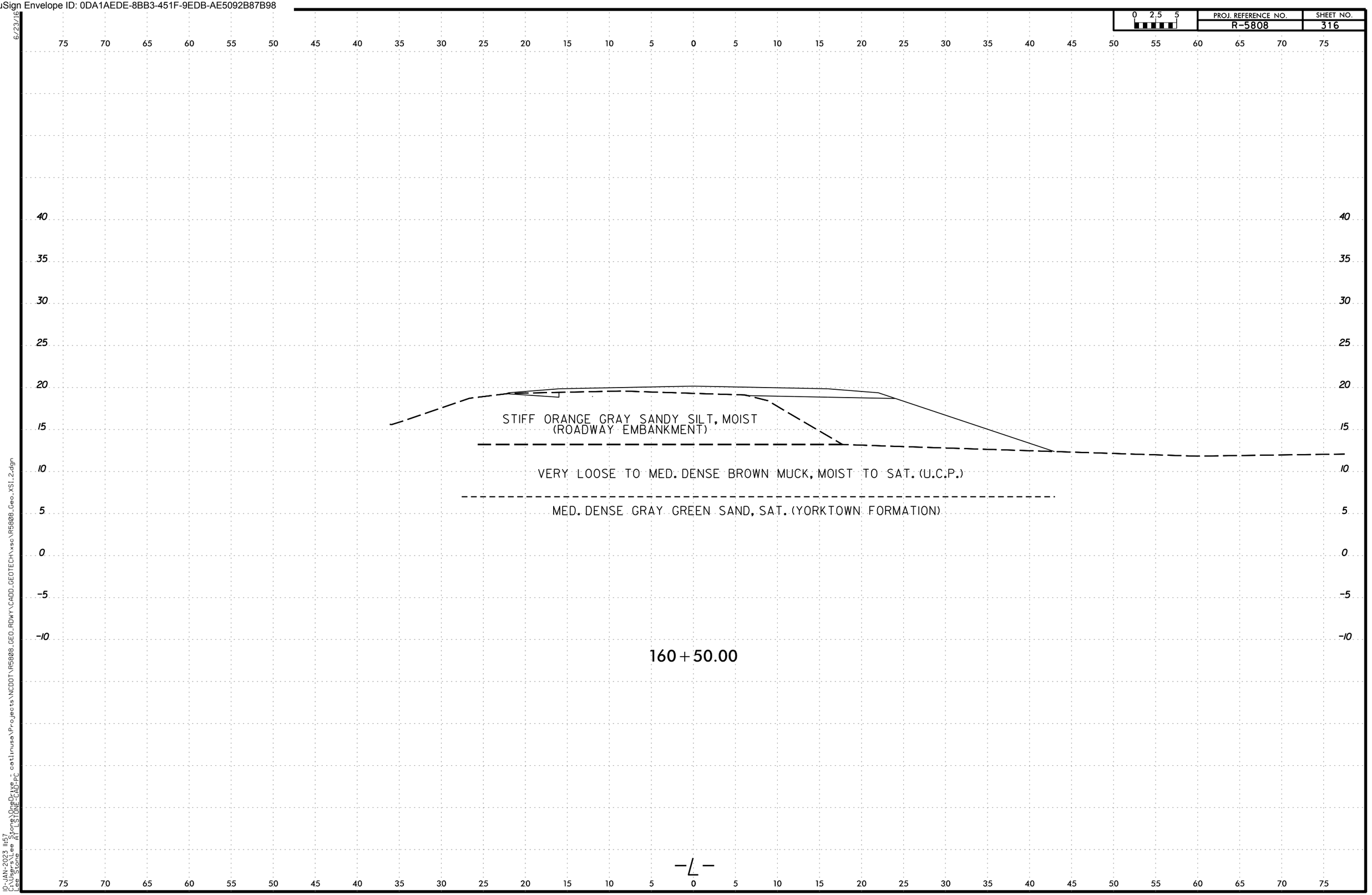
	R-5808	316



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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	317

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

03/22

BT

161+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	318

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

161+50.00

-L-

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Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	319

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

162 + 00.00

$-\mathit{L}-$

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	320

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

162 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	321

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

03/22

BT

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

163 + 00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	322

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

163 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	323

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO MED. DENSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

MED. DENSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

164+00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	324

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

164+50.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

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	R-5808	325

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

165+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	326

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

165+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	327

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

MED. STIFF GREEN SANDY CLAY, WET. (YORKTOWN FORMATION)

166 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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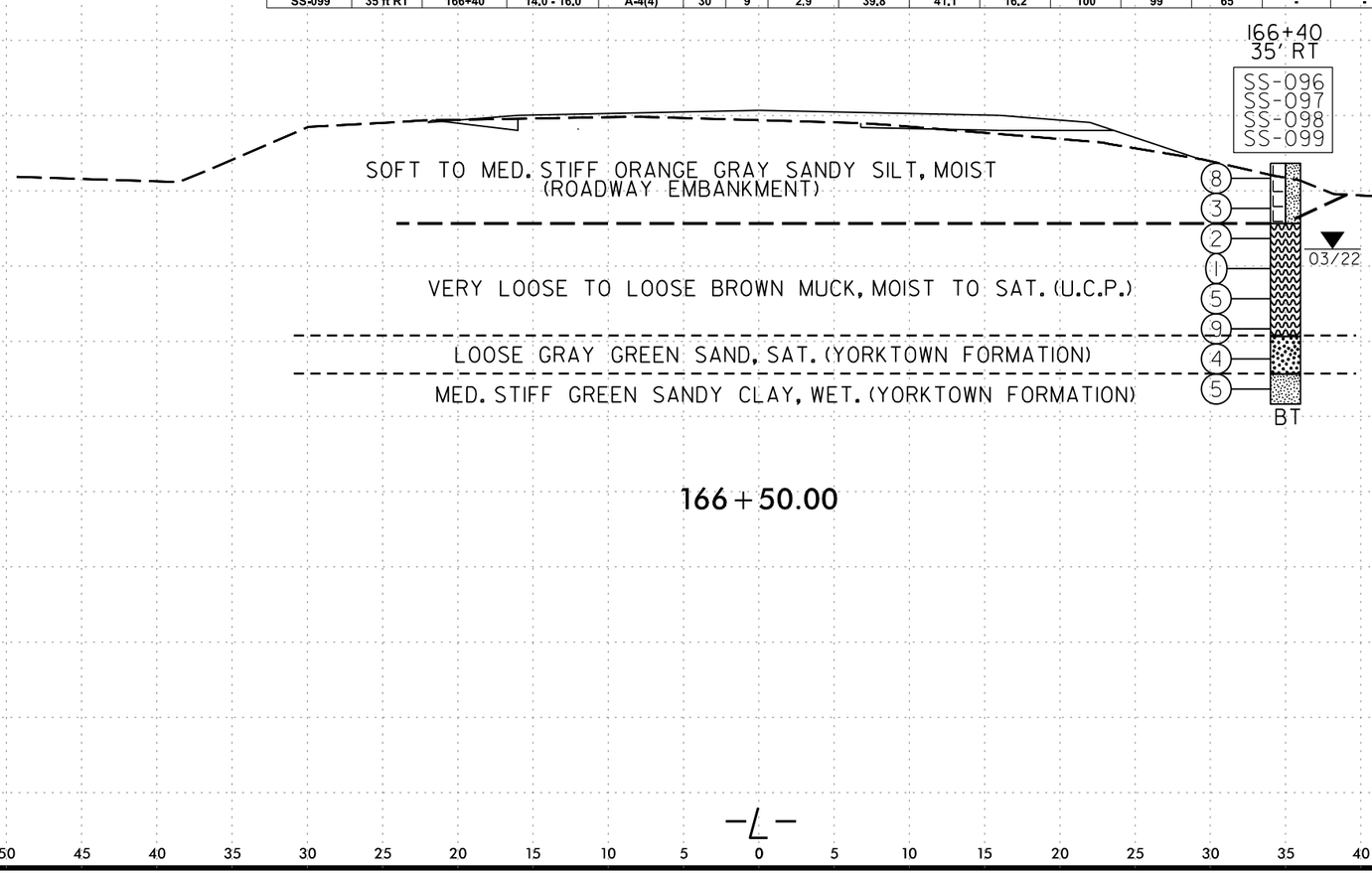
Lee Stone AT LSTONE_CAD_PC

SOIL TEST RESULTS

SAMPLE NUMBER	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-096	35 ft RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	46.1
SS-097	35 ft RT	166+40	10.0 - 11.5	A-2-4(0)	NP	NP	20.7	53.2	15.9	10.2	97.2	92	27	-	14.8
SS-098	35 ft RT	166+40	12.0 - 14.0	A-2-4(0)	NP	NP	19.5	57.6	9.5	13.4	99.3	96	25	-	-
SS-099	35 ft RT	166+40	14.0 - 16.0	A-4(4)	30	9	2.9	39.8	41.1	16.2	100	99	65	-	-



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	329

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

03/22

BT

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

167+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	330

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

167+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	331

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

168 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	332

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

168 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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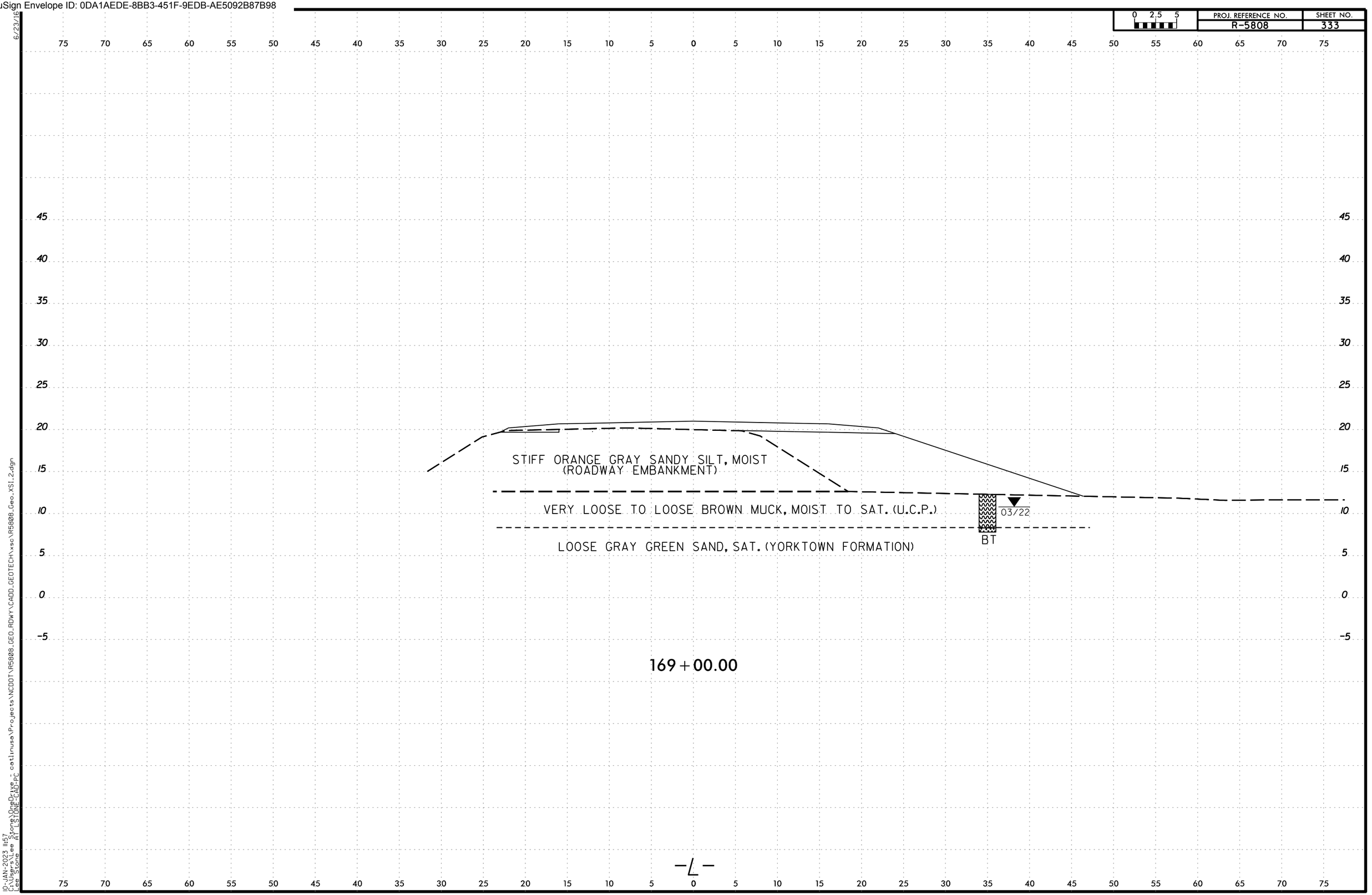
Lee Stone AT LSTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	333



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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	334

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

169 + 50.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	335

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

170+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	336

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

170 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	337

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-039	35 ft RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM	149	62.0
S-040	35 ft RT	171+00	4.0 - 4.5	A-2-4(0)	NP	NP	8.2	67.0	21.1	3.6	99.6	99	29	-	-

171+00.00

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	338

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

171+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	339

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

172 + 00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	340

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

172 + 50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	341

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT, MOIST
(ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

03/22

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION) BT

173+00.00

-L-

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Lee Stone AT LSTONE_CAD_PC

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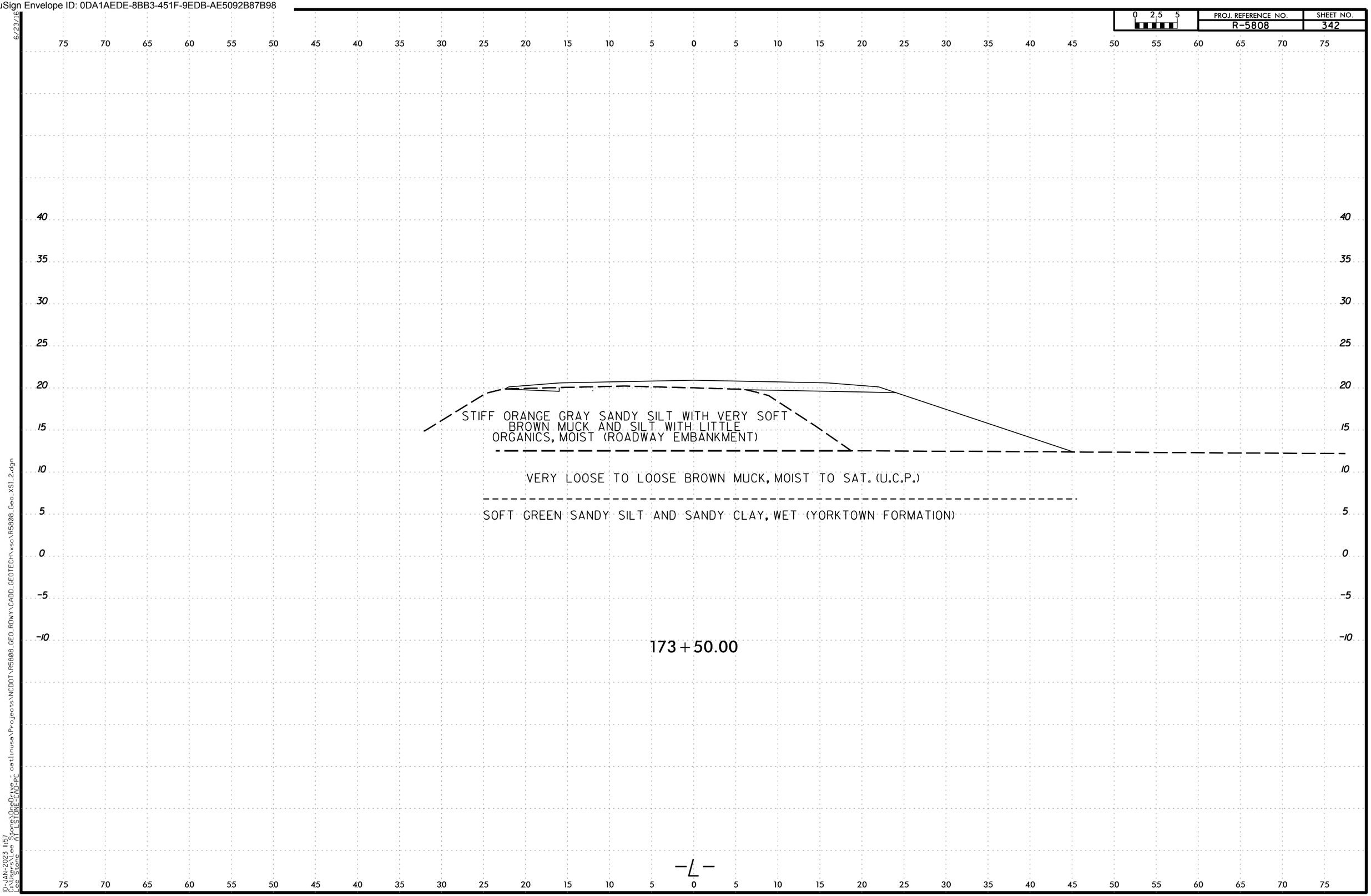

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	343

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45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

174+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT STONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	344

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

174+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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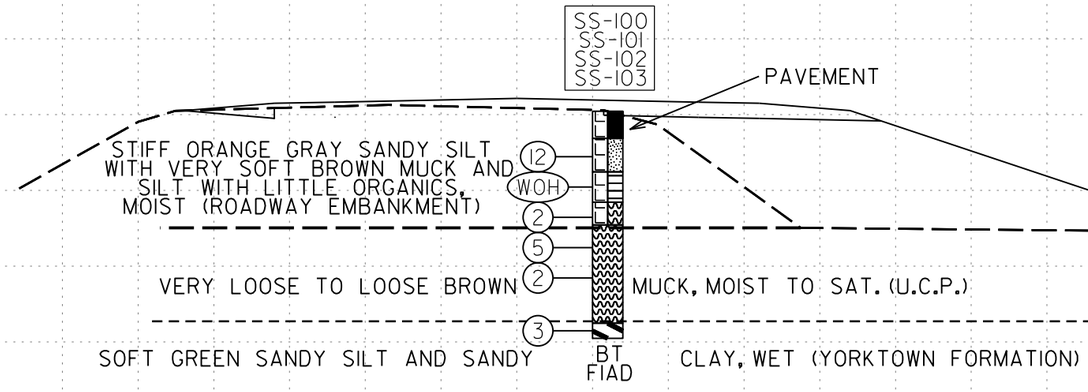
Lee Stone AT STONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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-100	35 ft RT	175+00	4.0 - 6.0	()	NEM	-	11.0	27.2	39.2	22.7	99.4	97	68	-	8.9
SS-101	35 ft RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.0	4.9	97.5	65	44	-	59.8
SS-102	35 ft RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	15.5
SS-103	35 ft RT	175+00	14.0 - 15.0	A-6(10)	30	14	6.3	20.8	43.9	29.0	99.4	99	82	-	-



175+00.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	346

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

175+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	347

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

176+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	348

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45 40 35 30 25 20 15 10 5 0 -5 -10

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

176+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE-CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	349

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

03/22

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT, WET (YORKTOWN FORMATION)

BT

177+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	350

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

STIFF ORANGE GRAY SANDY SILT WITH VERY SOFT BROWN MUCK AND SILT WITH LITTLE ORGANICS, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT, WET (YORKTOWN FORMATION)

177+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	351

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY LOOSE TO LOOSE BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT, WET (YORKTOWN FORMATION)

178+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	352

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT GREEN SANDY SILT, WET (YORKTOWN FORMATION)

178+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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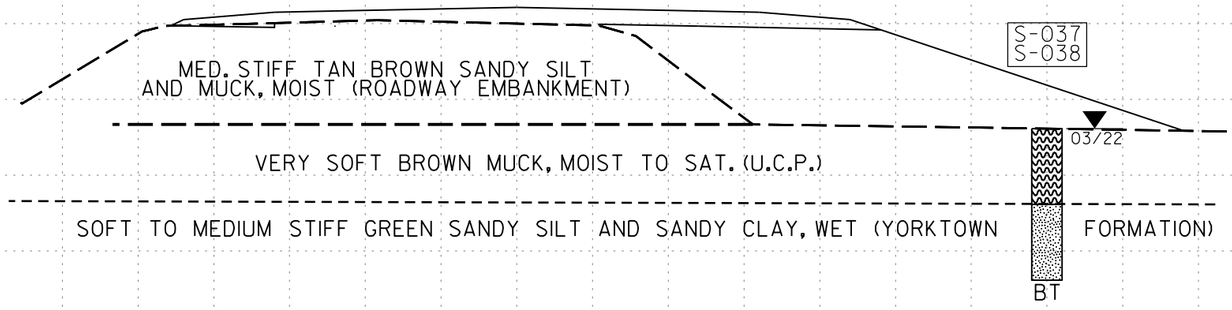
Lee Stone AT LSTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-037	35 ft RT	179+00	3.0 - 3.5	()	NEM	-	19.8	8.2	64.8	7.2	99.4	90	73	292	73.0
S-038	35 ft RT	179+00	6.0 - 7.0	A-4(0)	25	2	2.3	34.8	55.2	7.7	99.9	99	80	-	-



179+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	354

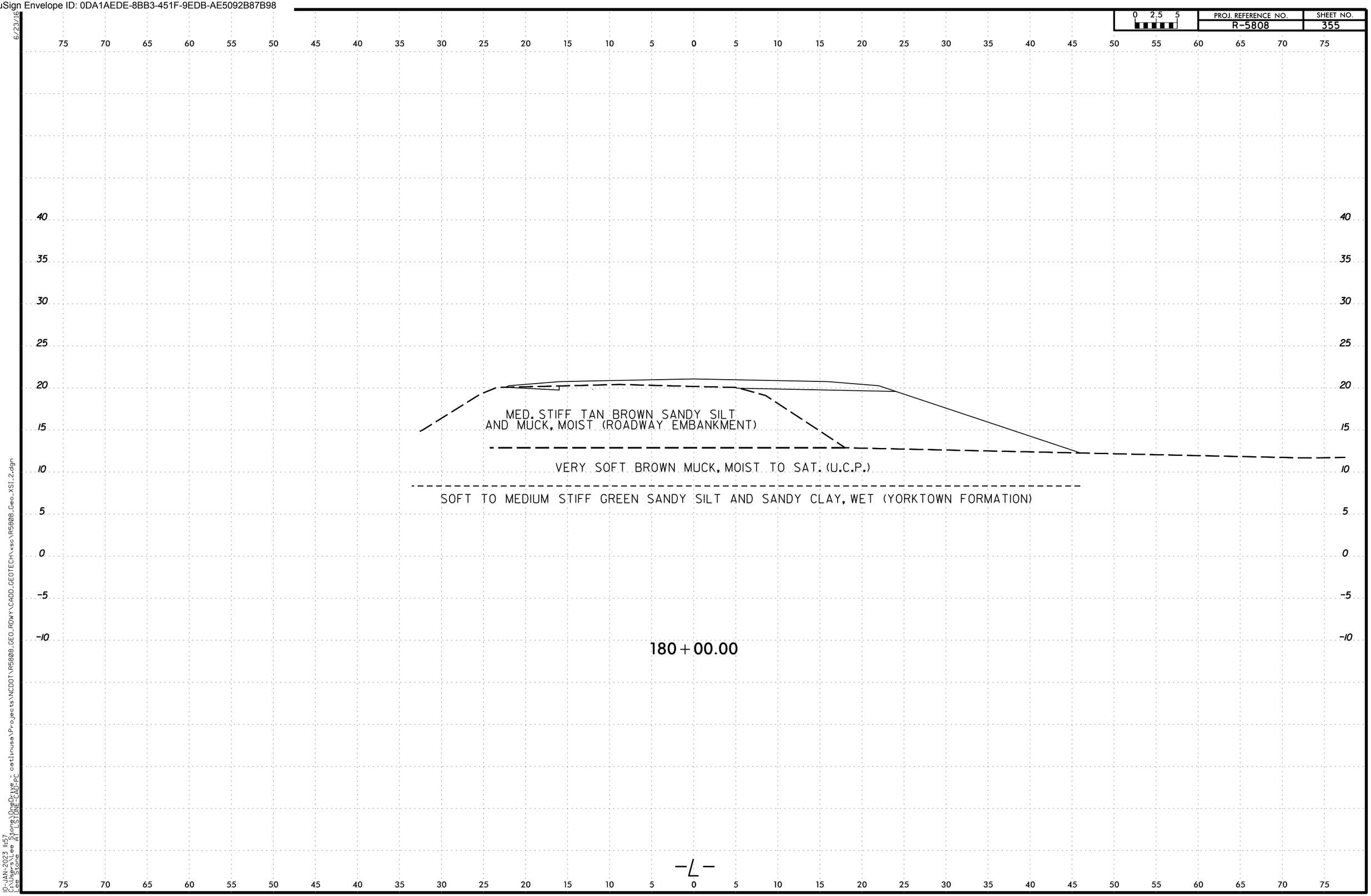
MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

179+50.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	355



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	356

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

180+50.00

-L-

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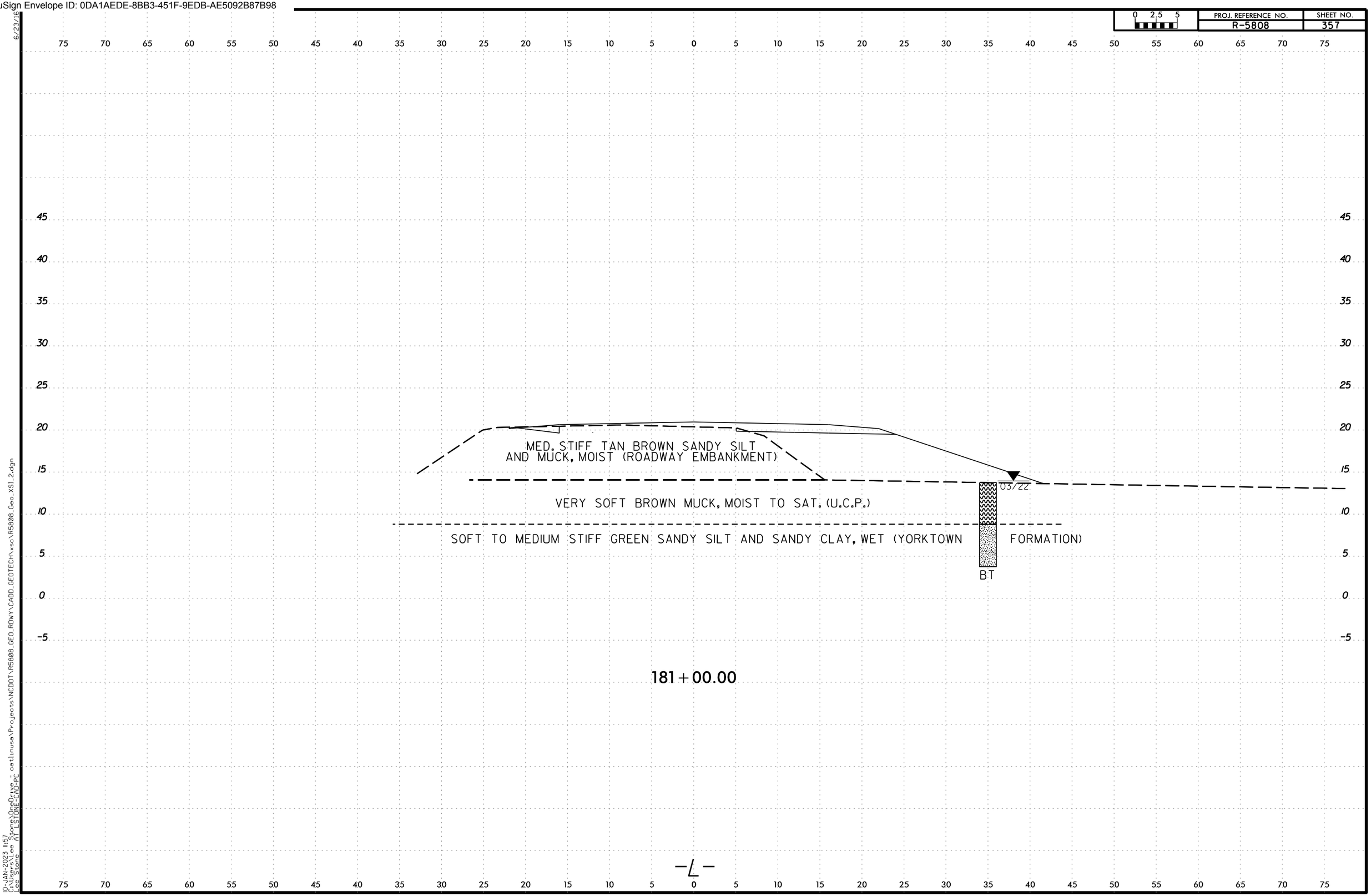
Lee Stone AT LSTONE_CAD-PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	357



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Lee Stone AT LSTONE_CAD-PC

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	358

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

181+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	359

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

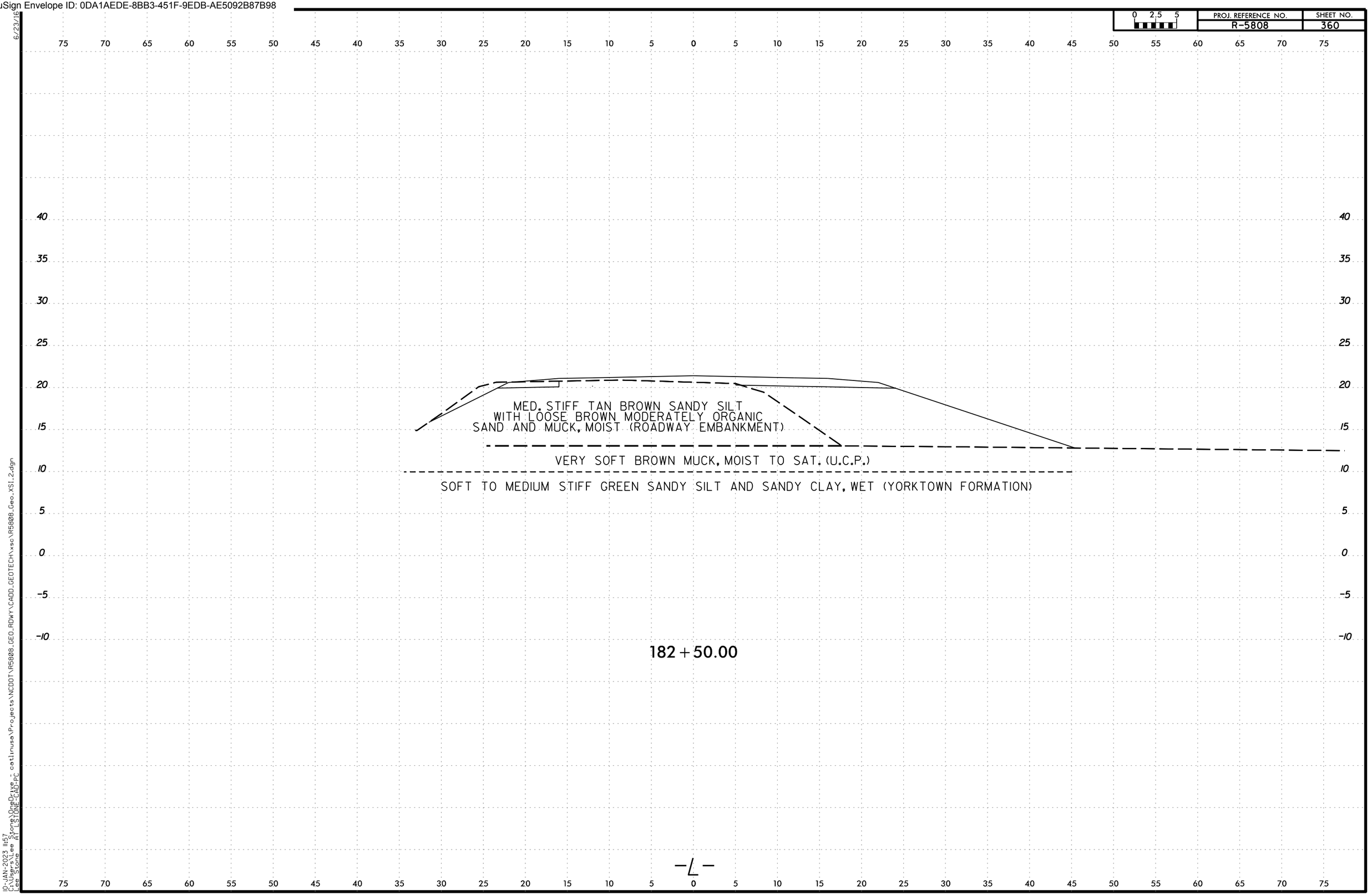
MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

182 + 00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	360



6/23/16

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	361

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

03/22

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

BT

183+00.00

-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	362

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

183+50.00

-L-

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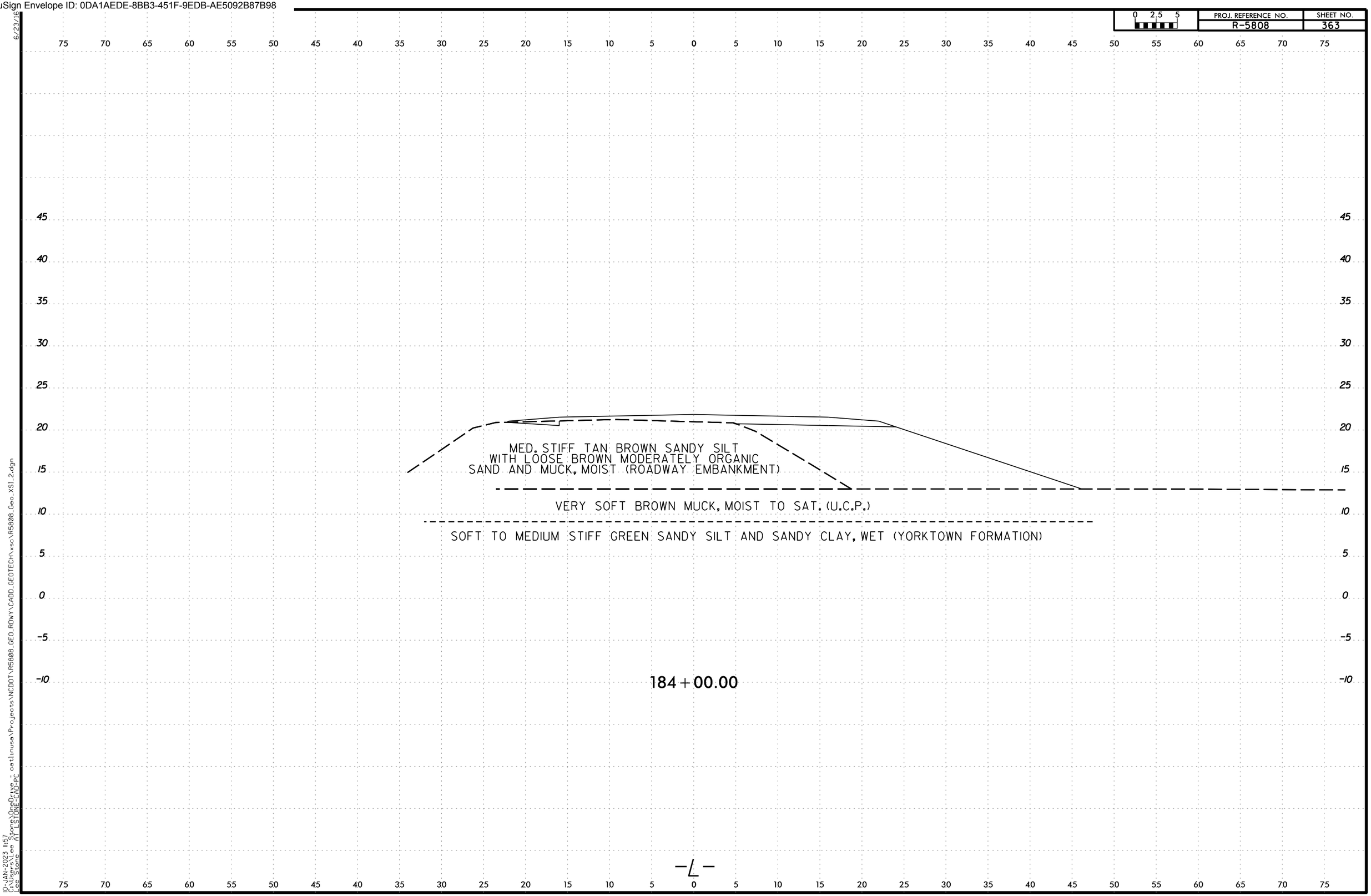
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	363



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	364

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

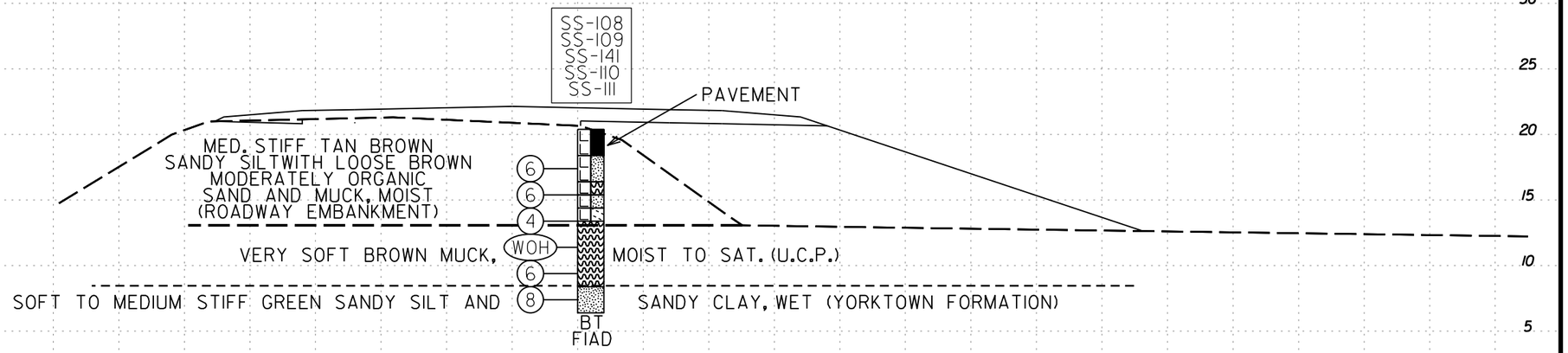
SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

184 + 50.00

-L-

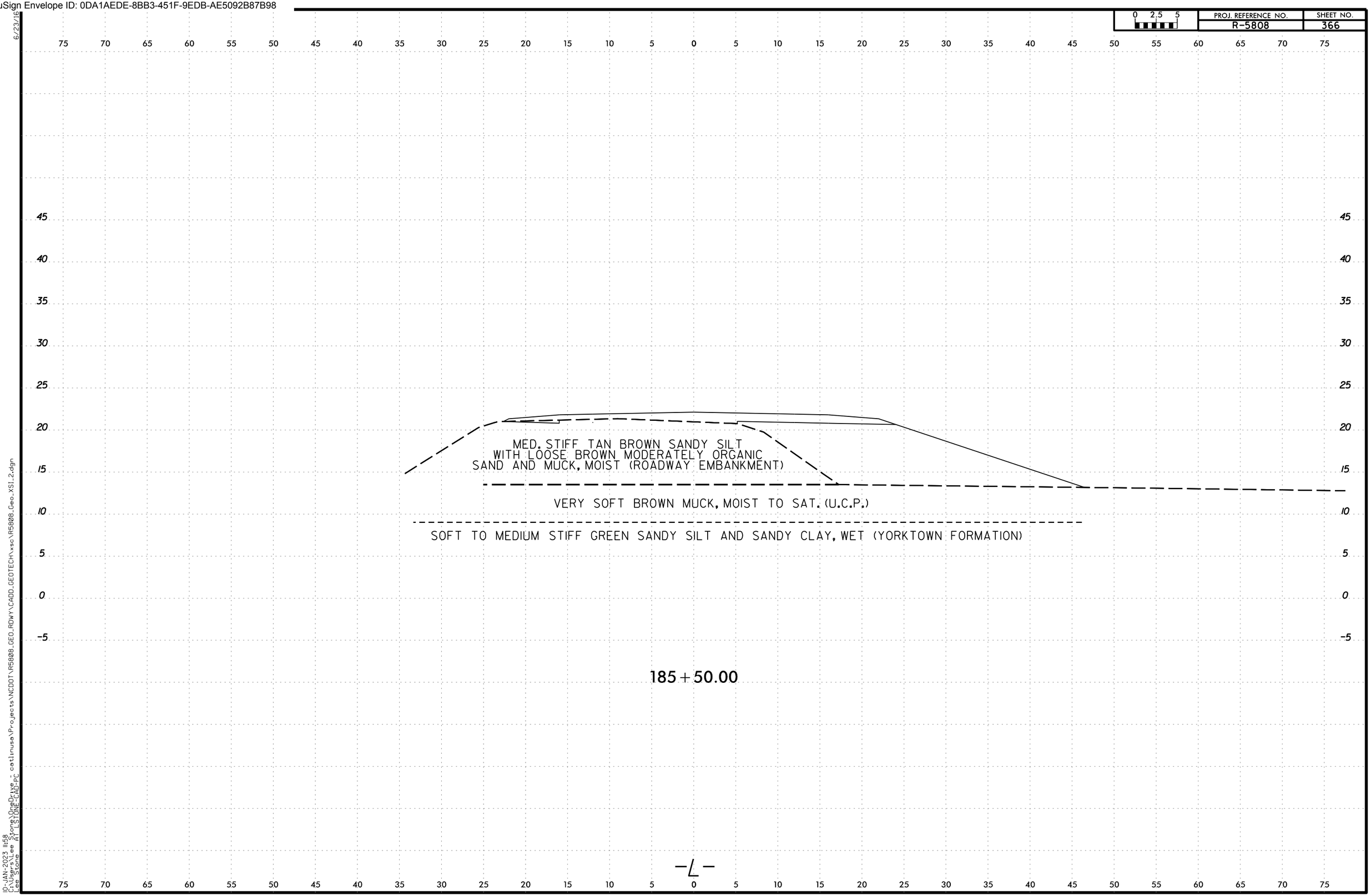
SOIL TEST RESULTS

SAMPLE NUMBER	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-108	6 ft RT	185+00	2.5 - 4.0	A-4(0)	20	6	13.8	49.8	17.6	18.8	100	98	41	-	-
SS-109	6 ft RT	185+00	4.0 - 5.0	A-4(0)	NP	NP	25.3	12.0	45.4	17.2	89.6	82	65	-	20.9
SS-141	6 ft RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.0	44.4	29.6	12.9	99.4	99	48	-	-
SS-110	6 ft RT	185+00	6.0 - 7.0	A-2-4(0)	NP	NP	18.8	60.6	16.7	3.9	96.5	96	23	-	5.1
SS-111	6 ft RT	185+00	7.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	74.2



185+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	366



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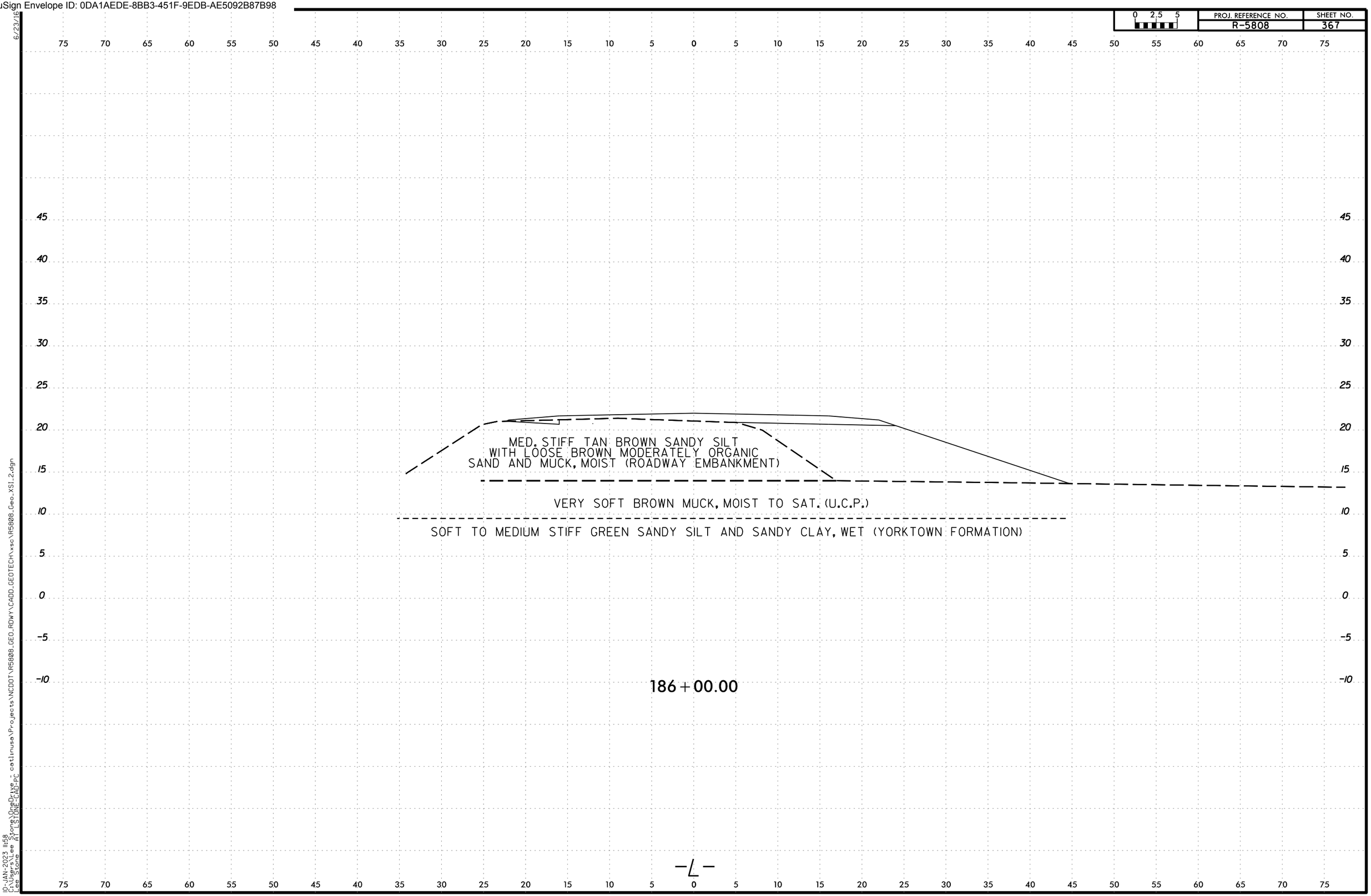
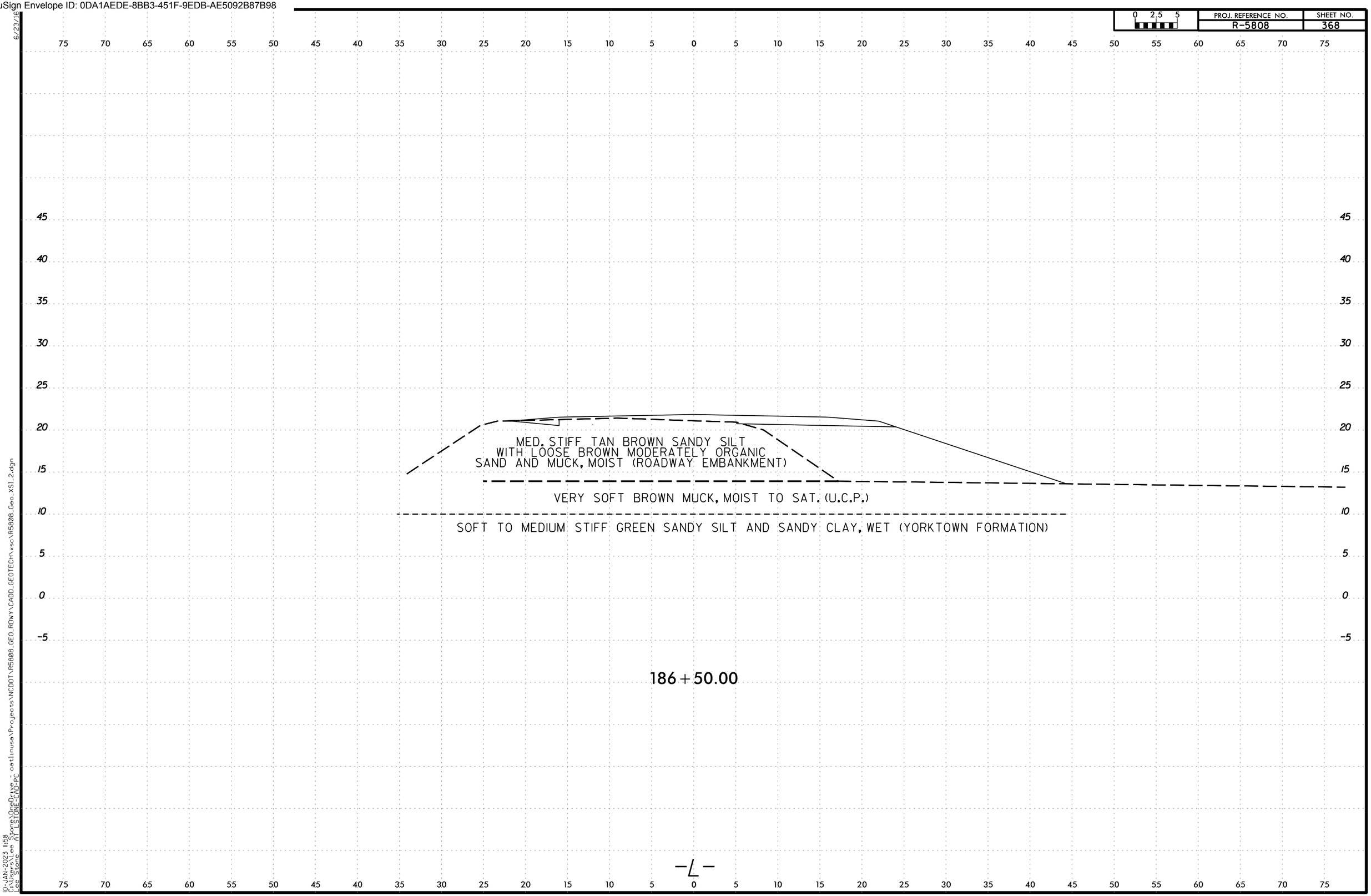
	R-5808	367



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	368



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	369

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40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

03/22

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

BT

187+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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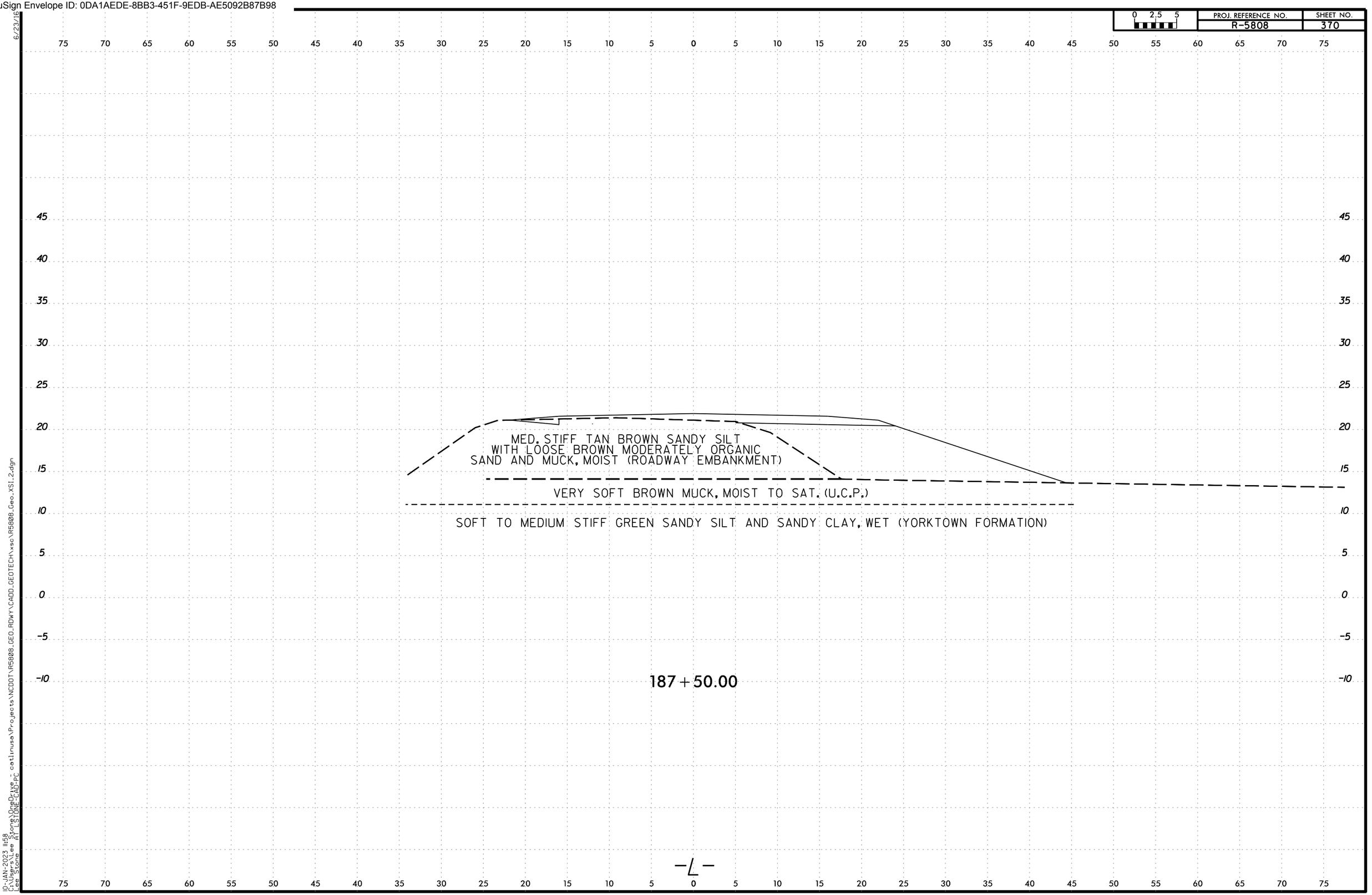
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	370



0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5808	371

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT
WITH LOOSE BROWN MODERATELY ORGANIC
SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

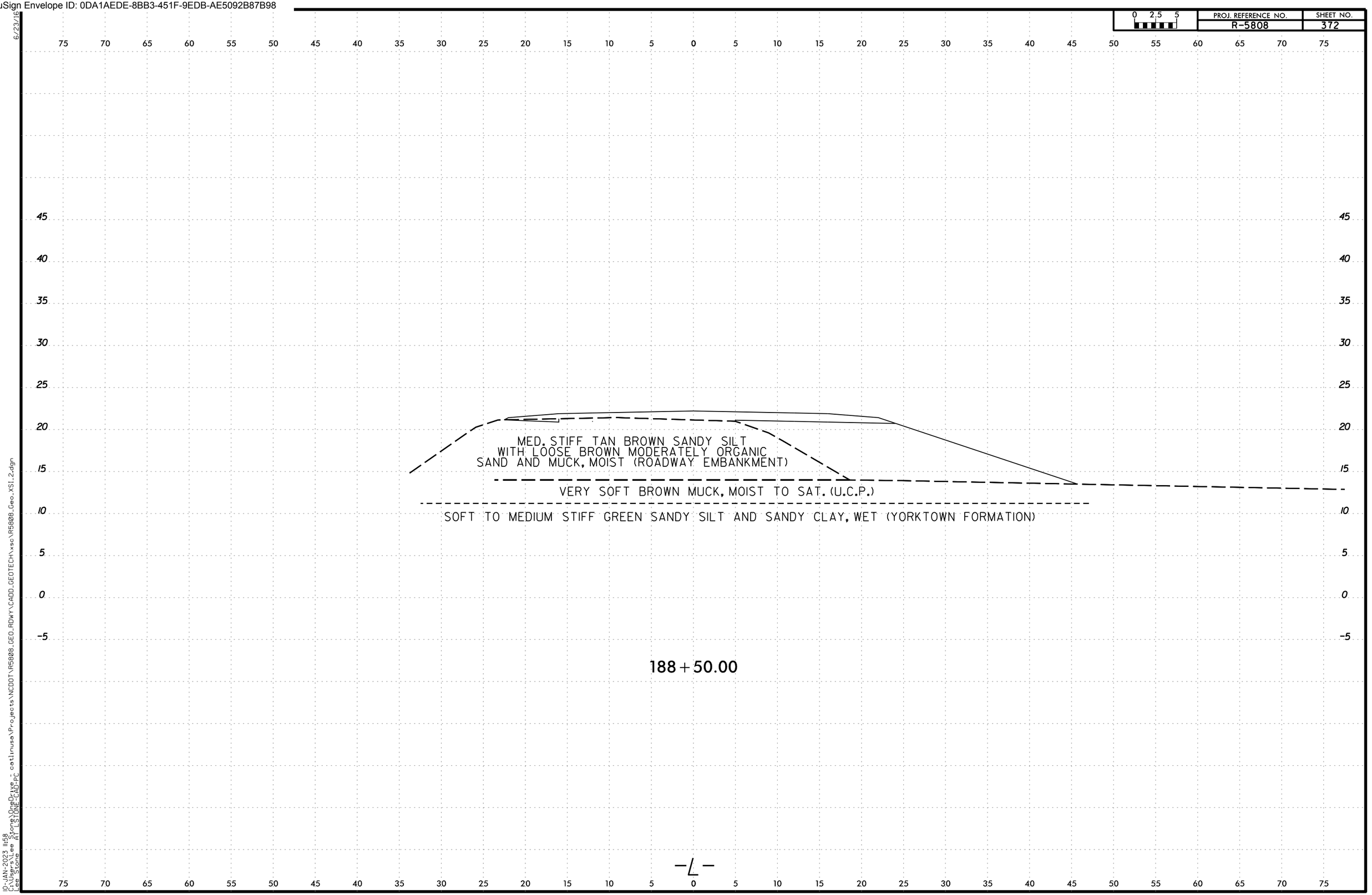
VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

188+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	372



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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	373

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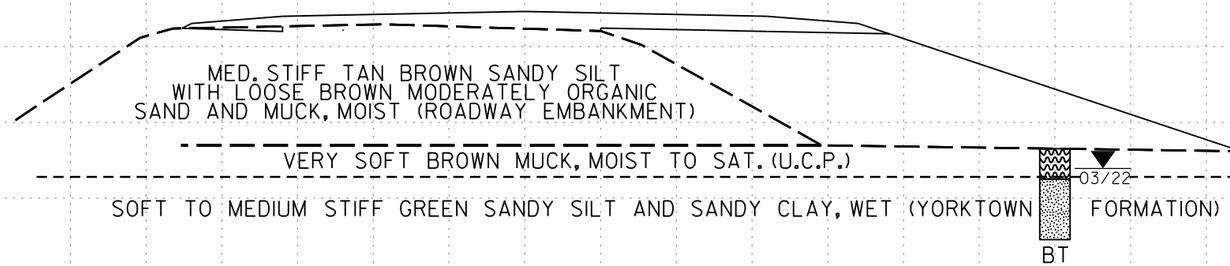
45 40 35 30 25 20 15 10 5 0 -5



189 + 00.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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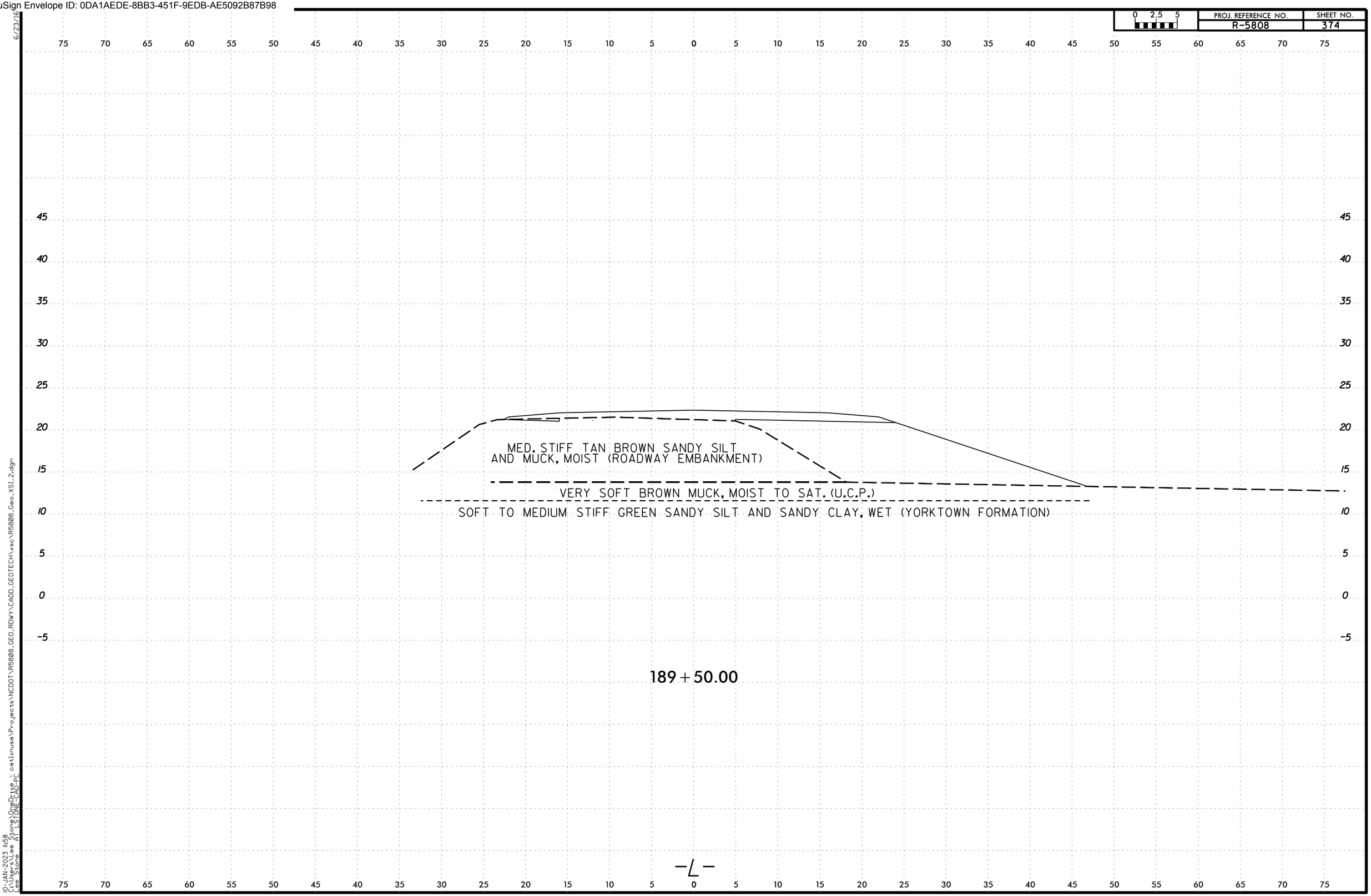

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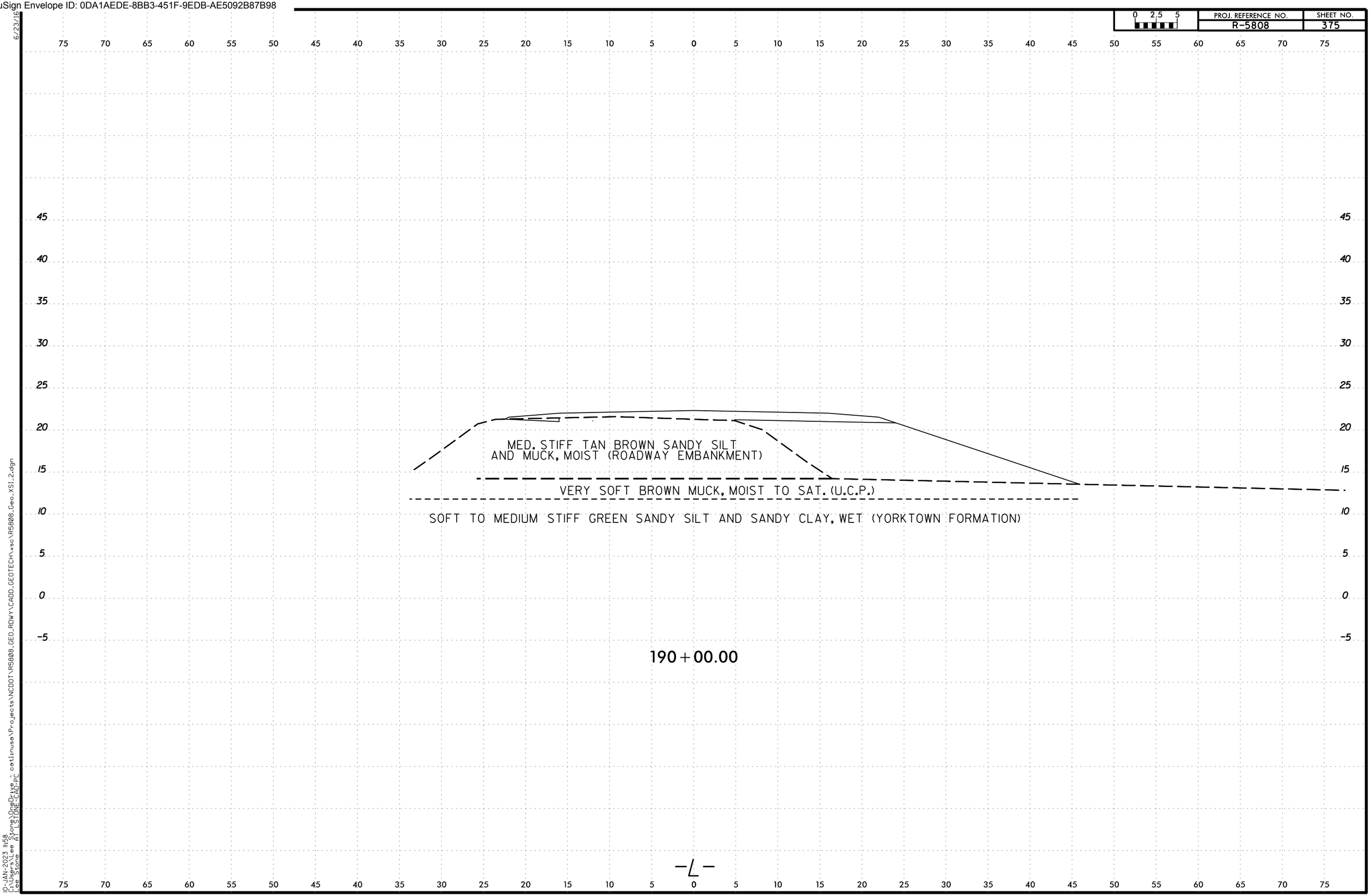
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	375



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Lee Stone AT LSTONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	376

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT
AND MUCK, MOIST (ROADWAY EMBANKMENT)

VERY SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO MEDIUM STIFF GREEN SANDY SILT AND SANDY CLAY, WET (YORKTOWN FORMATION)

190+50.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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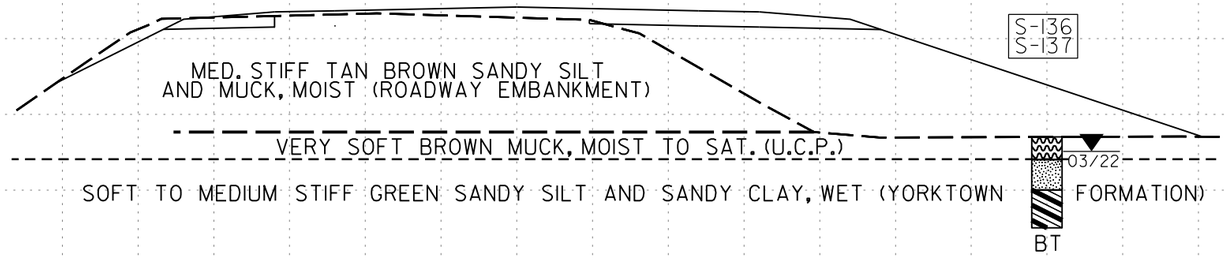
Lee Stone AT LSTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-136	35 ft RT	191+00	1.0 - 1.5	A-5(22)	85	8	5.9	5.4	54.5	34.2	99.6	96	90	122	40.6
S-137	35 ft RT	191+00	4.0 - 4.5	A-6(10)	30	11	0.5	6.2	71.3	22.0	99.9	100	98	-	-



191+00.00

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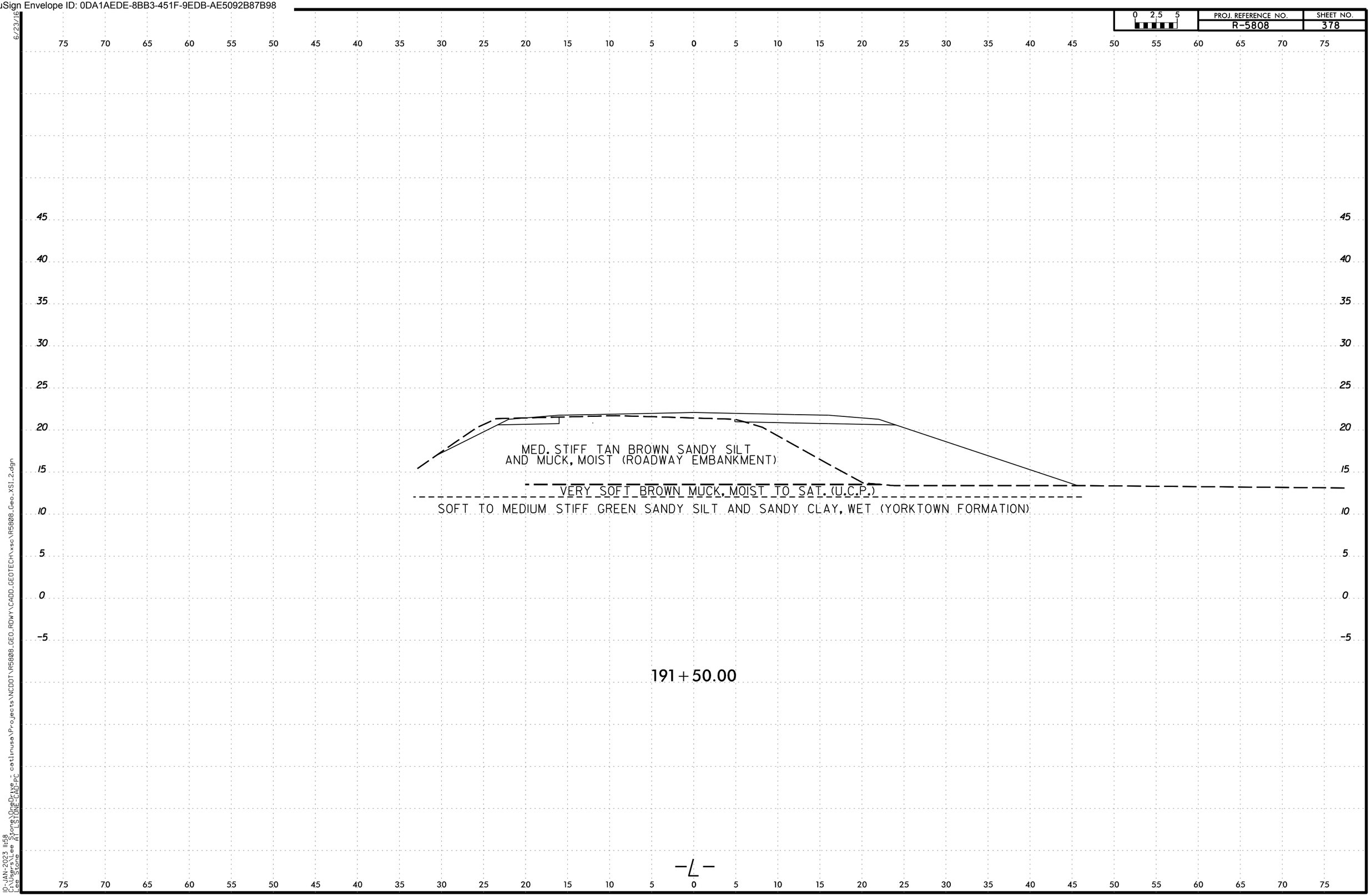

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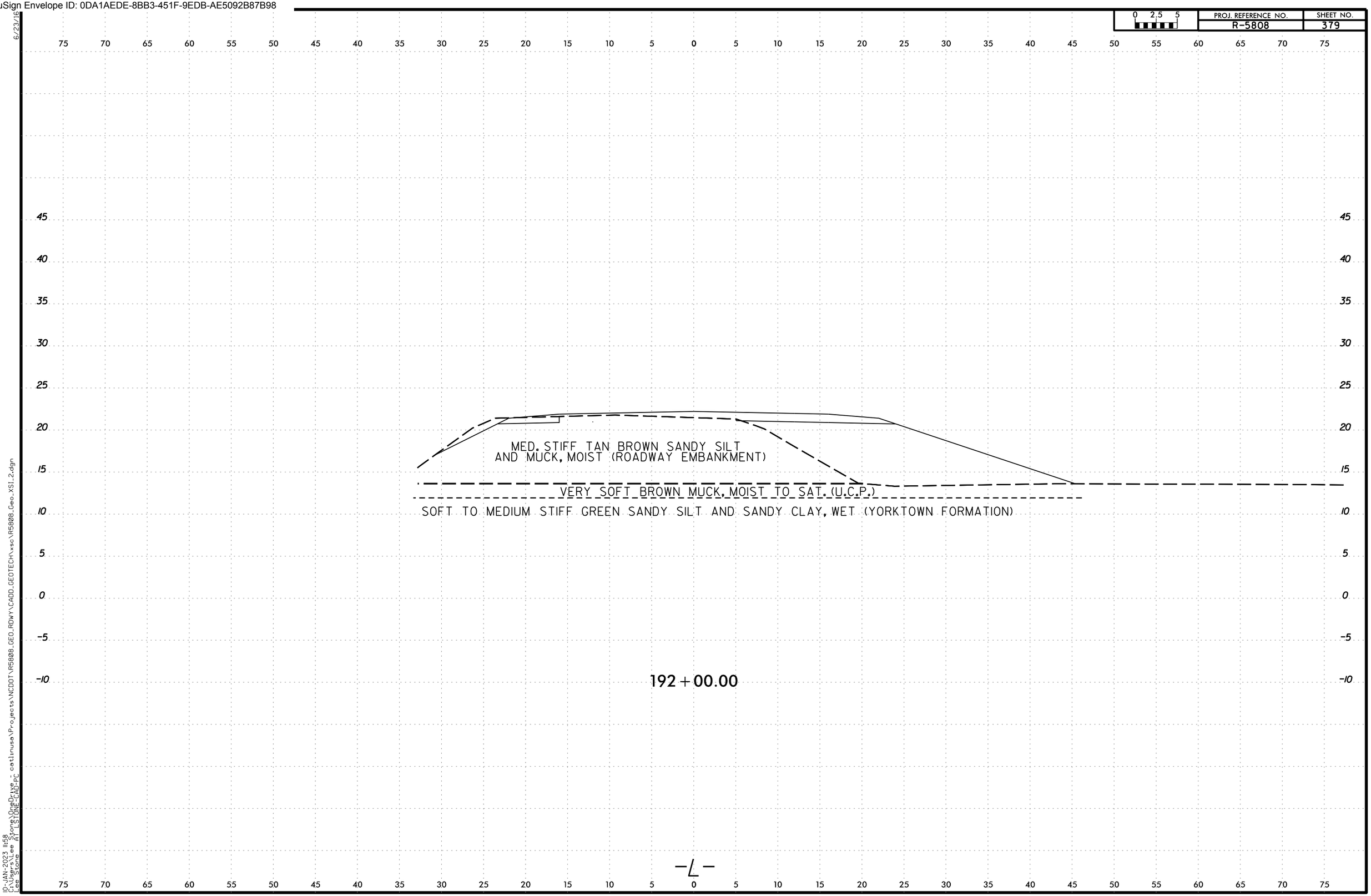

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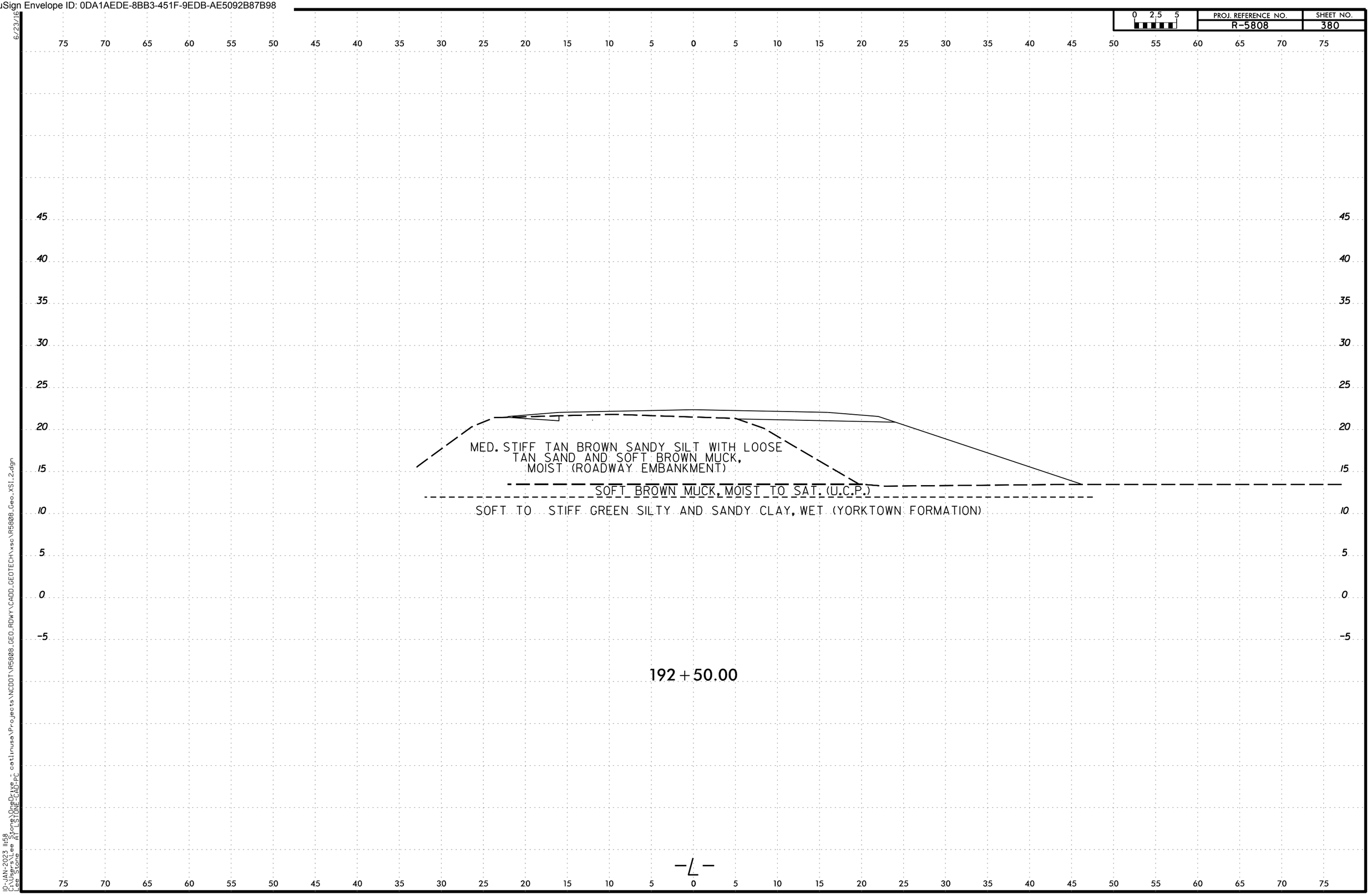
	R-5808	380



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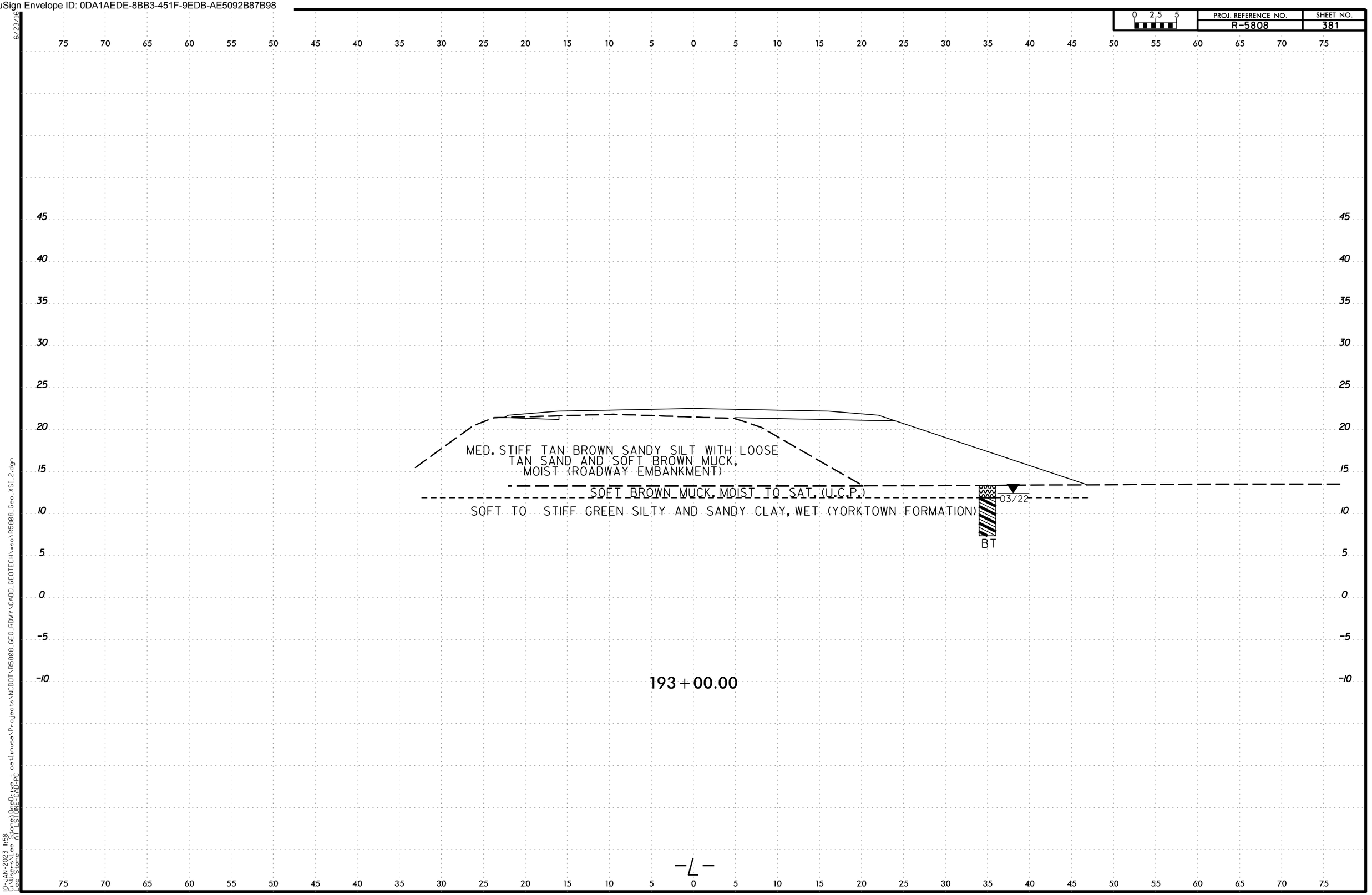
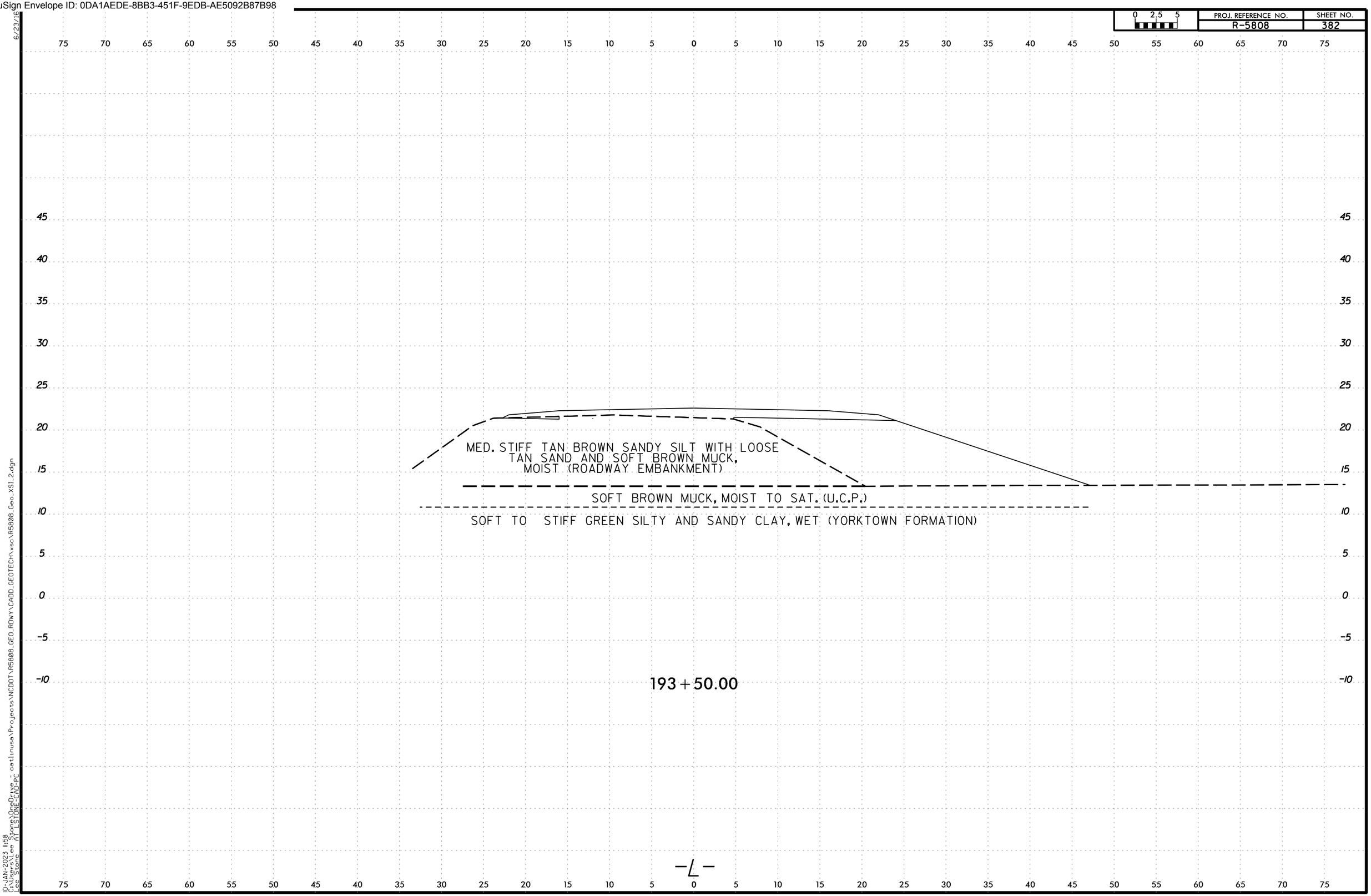


0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	382



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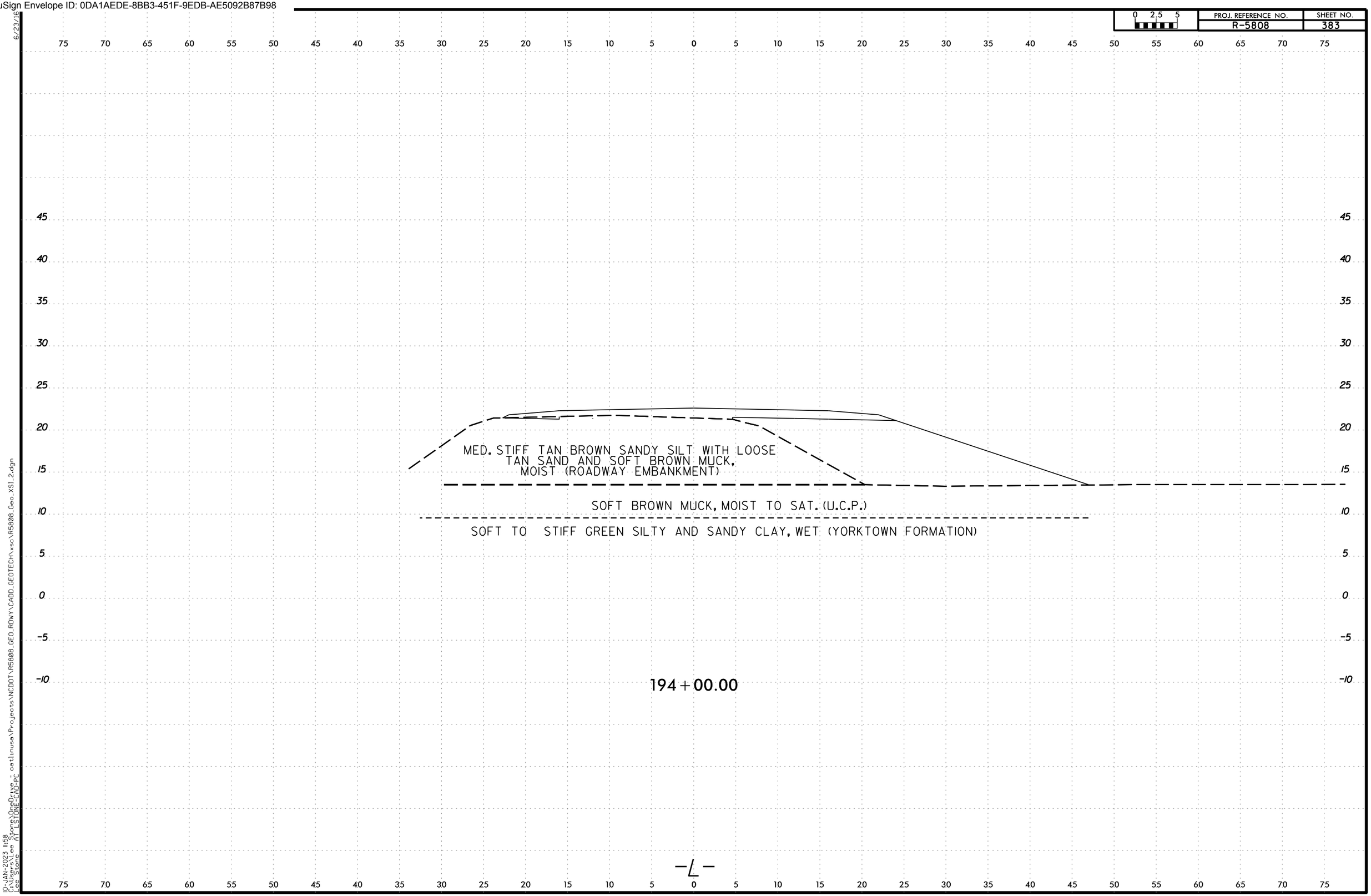
Lee Stone ATLESTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	383



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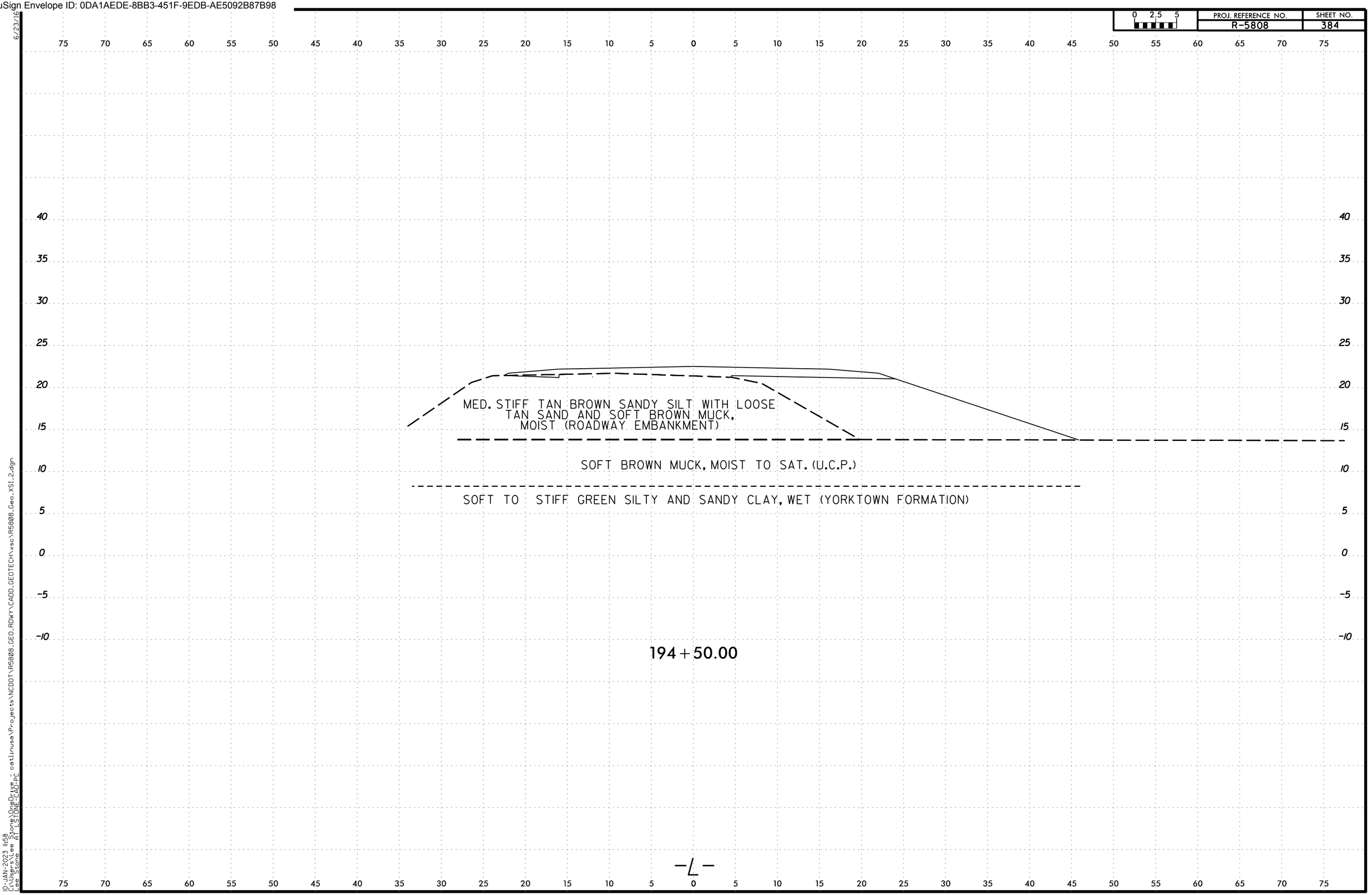
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	384



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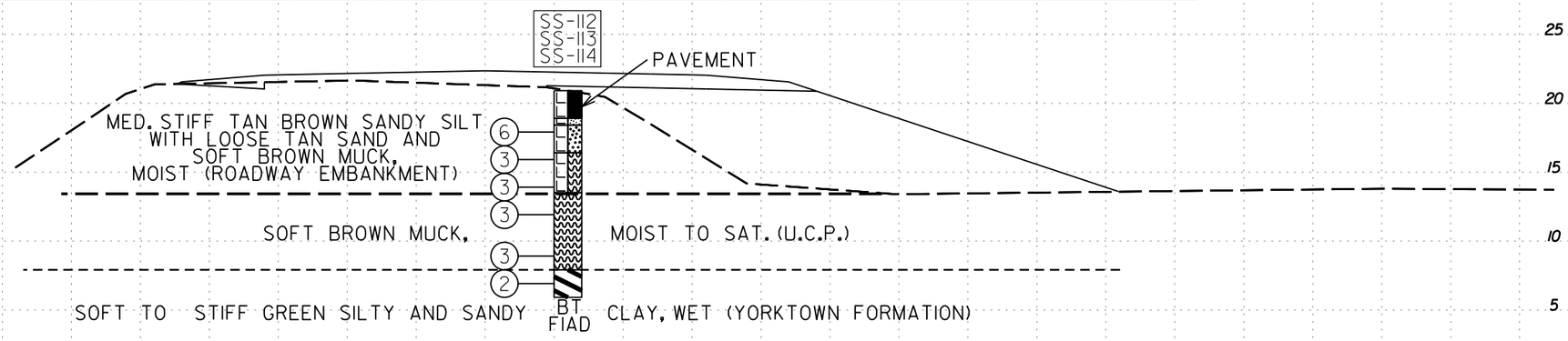
Lee Stone AT LSTONE-CAD-PC

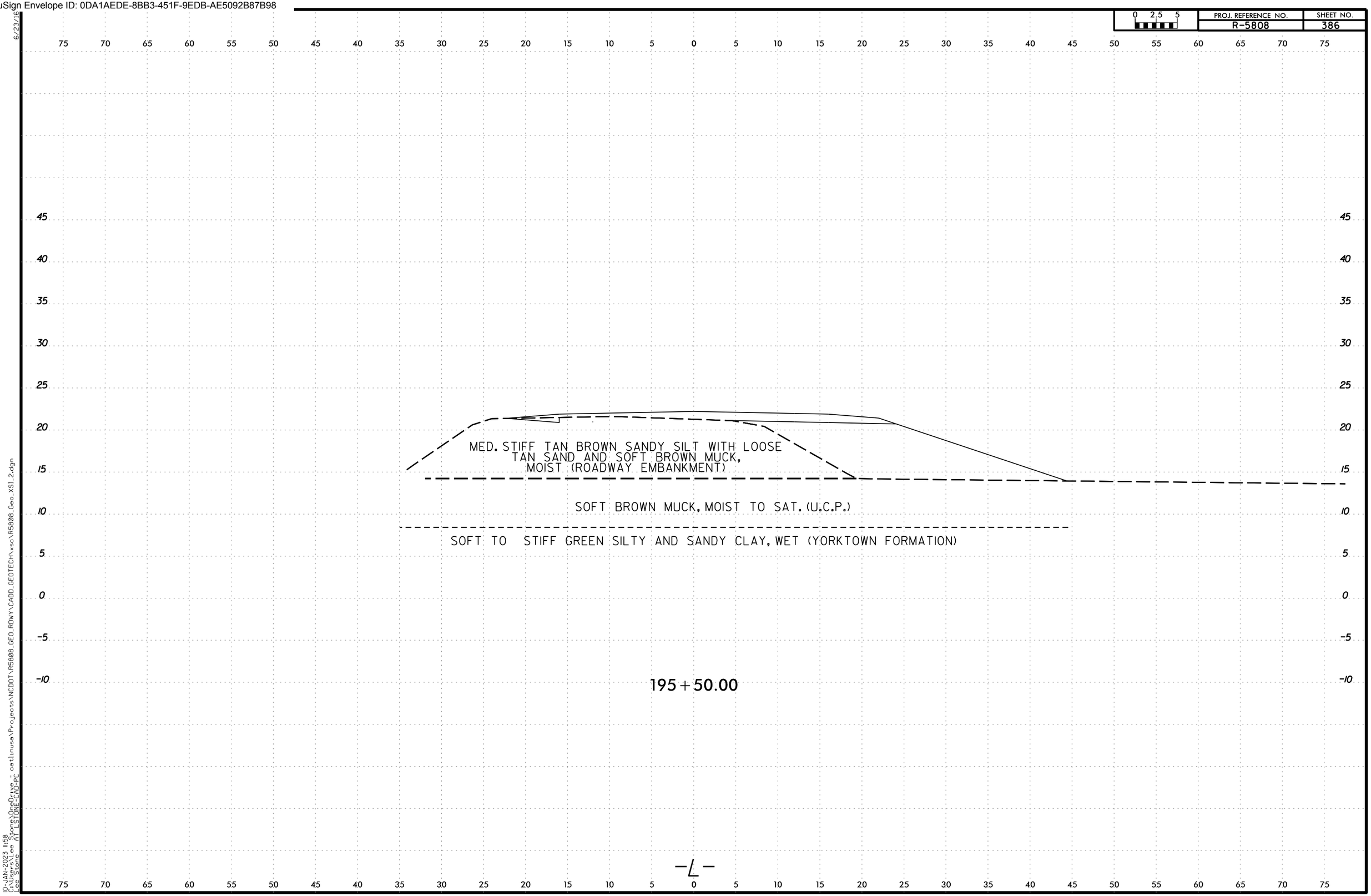
SOIL TEST RESULTS

SAMPLE NUMBER	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-112	35 ft RT	195+00	2.5 - 4.0	A-2-4(0)	NP	NP	14.1	61.8	14.5	9.5	94.3	96	28	-	-
SS-113	35 ft RT	195+00	6.0 - 8.0	A-4(9)	39	10	8.9	11.7	54.6	24.8	94.8	93	82	-	22.7
SS-114	35 ft RT	195+00	13.0 - 15.0	A-7-6(23)	41	24	0.9	16.6	43.8	38.7	99.6	100	93	-	-



195+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	386



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Lee Stone ATLESTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	387

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

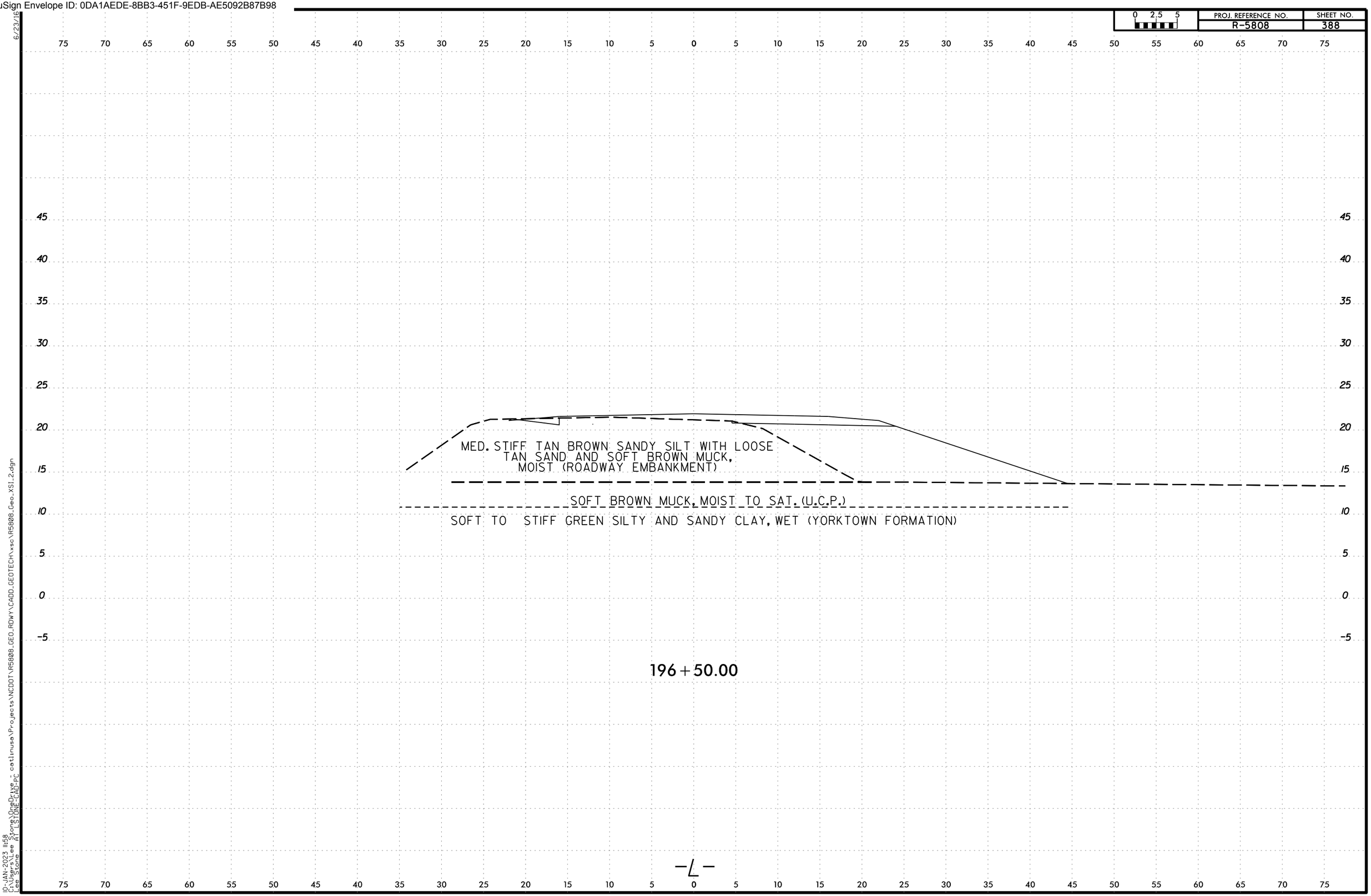
SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

196+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	388



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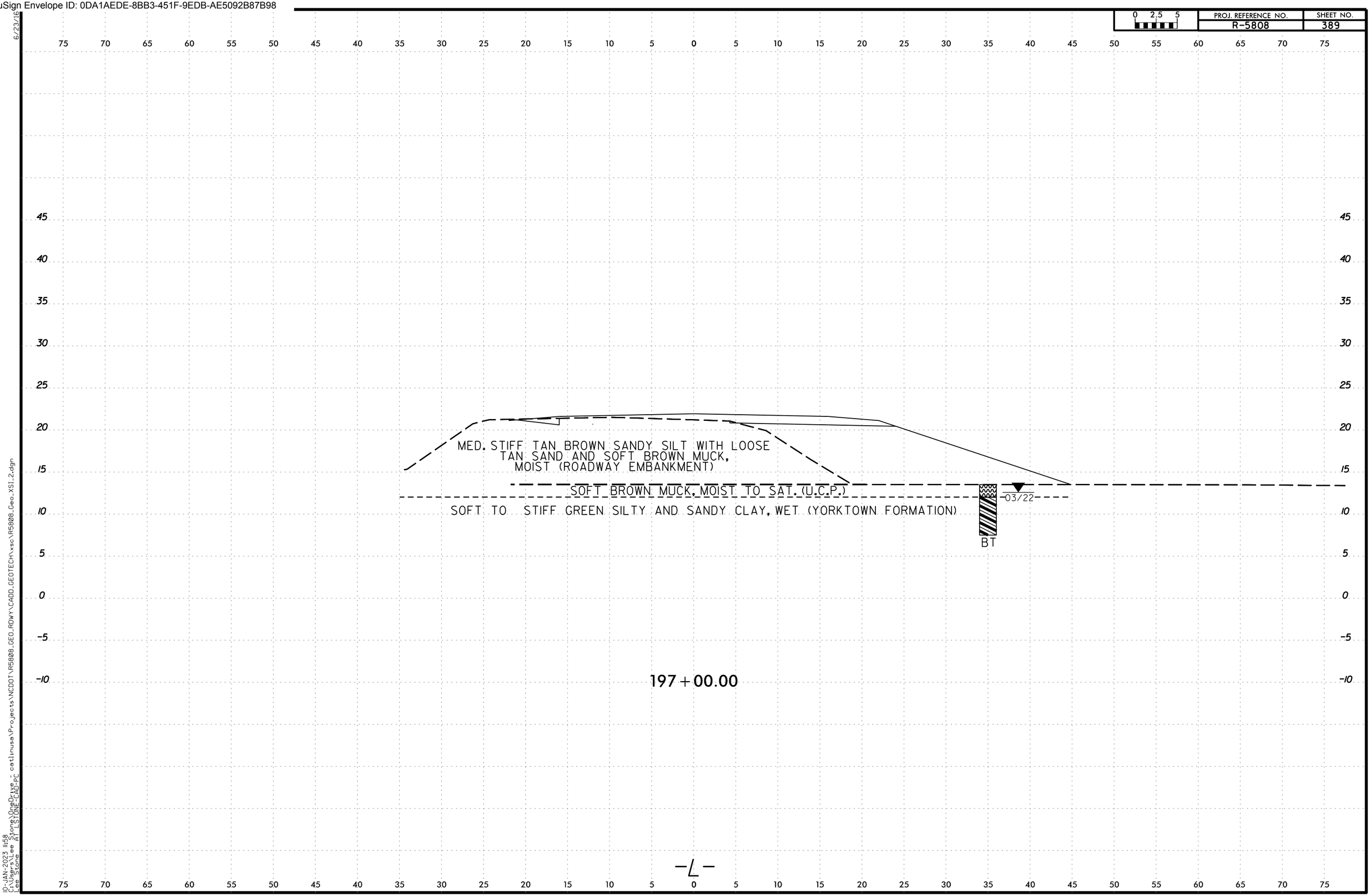
Lee Stone ATLESTONE_CAD_PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	389



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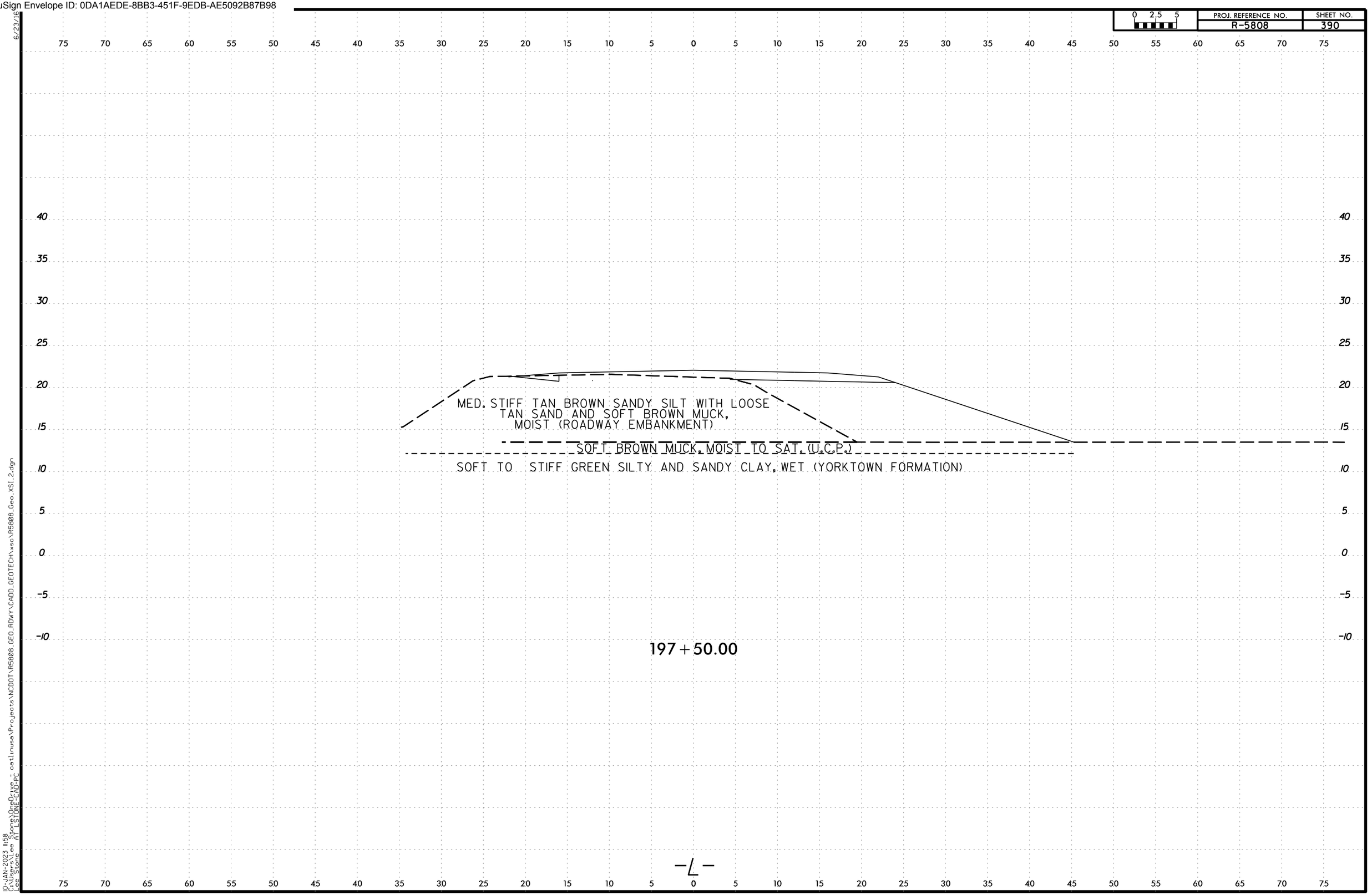
	R-5808	390



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	391

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20 15 10 5 0 -5 -10

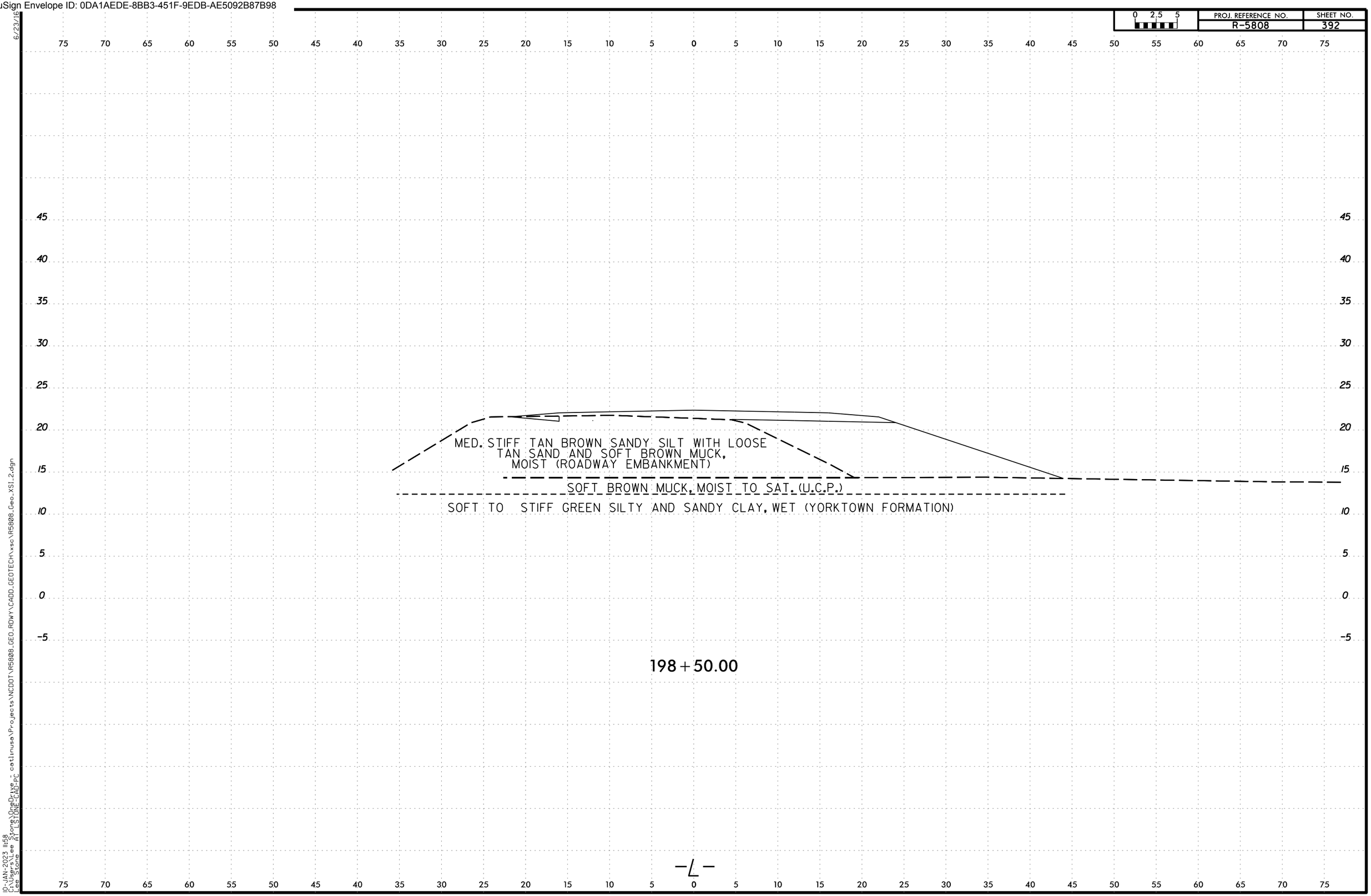
MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

198+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	392



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Lee Stone
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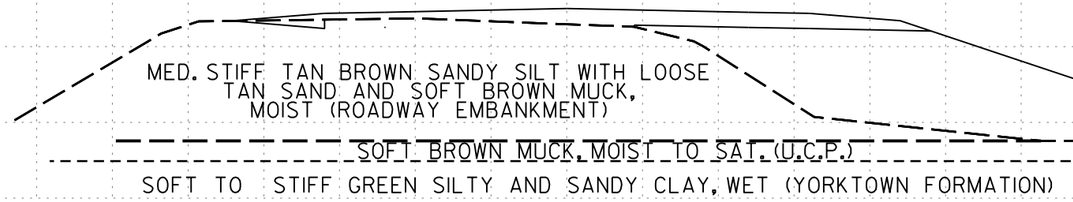
6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	393

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10



199+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	394

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

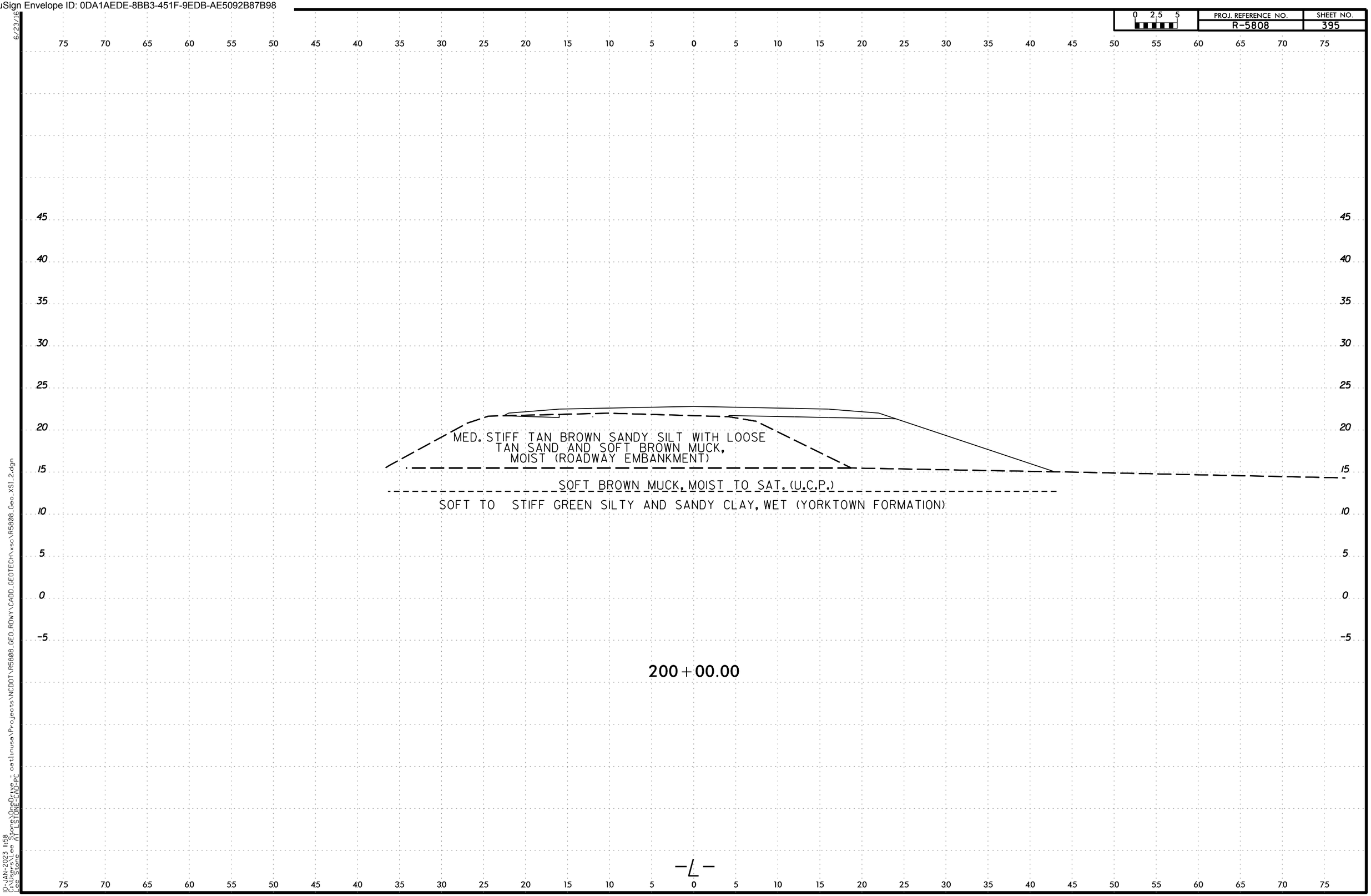
MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

199+50.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	395



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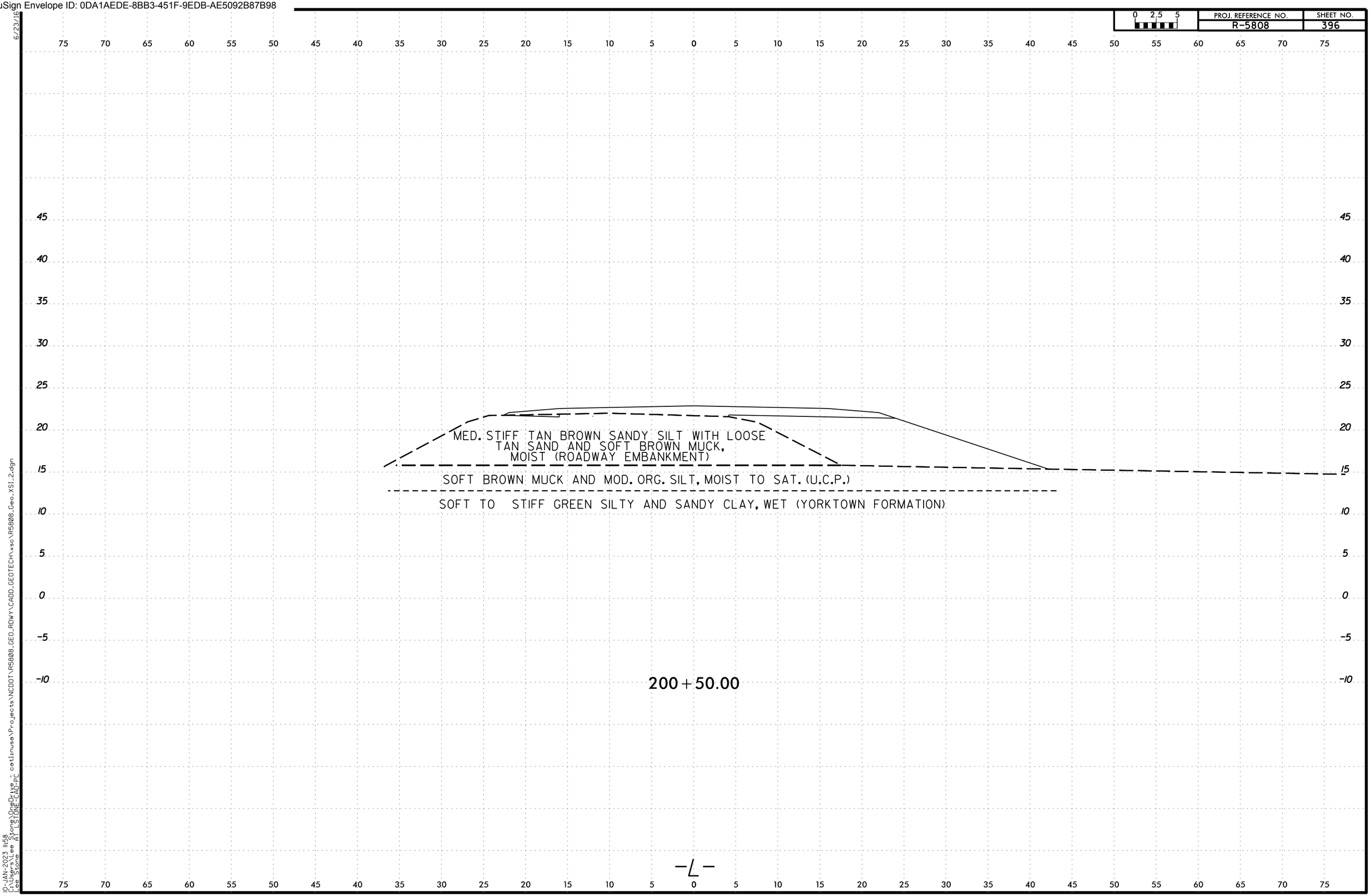
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	396



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	397

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45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE
TAN SAND AND SOFT BROWN MUCK,
MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

03/22

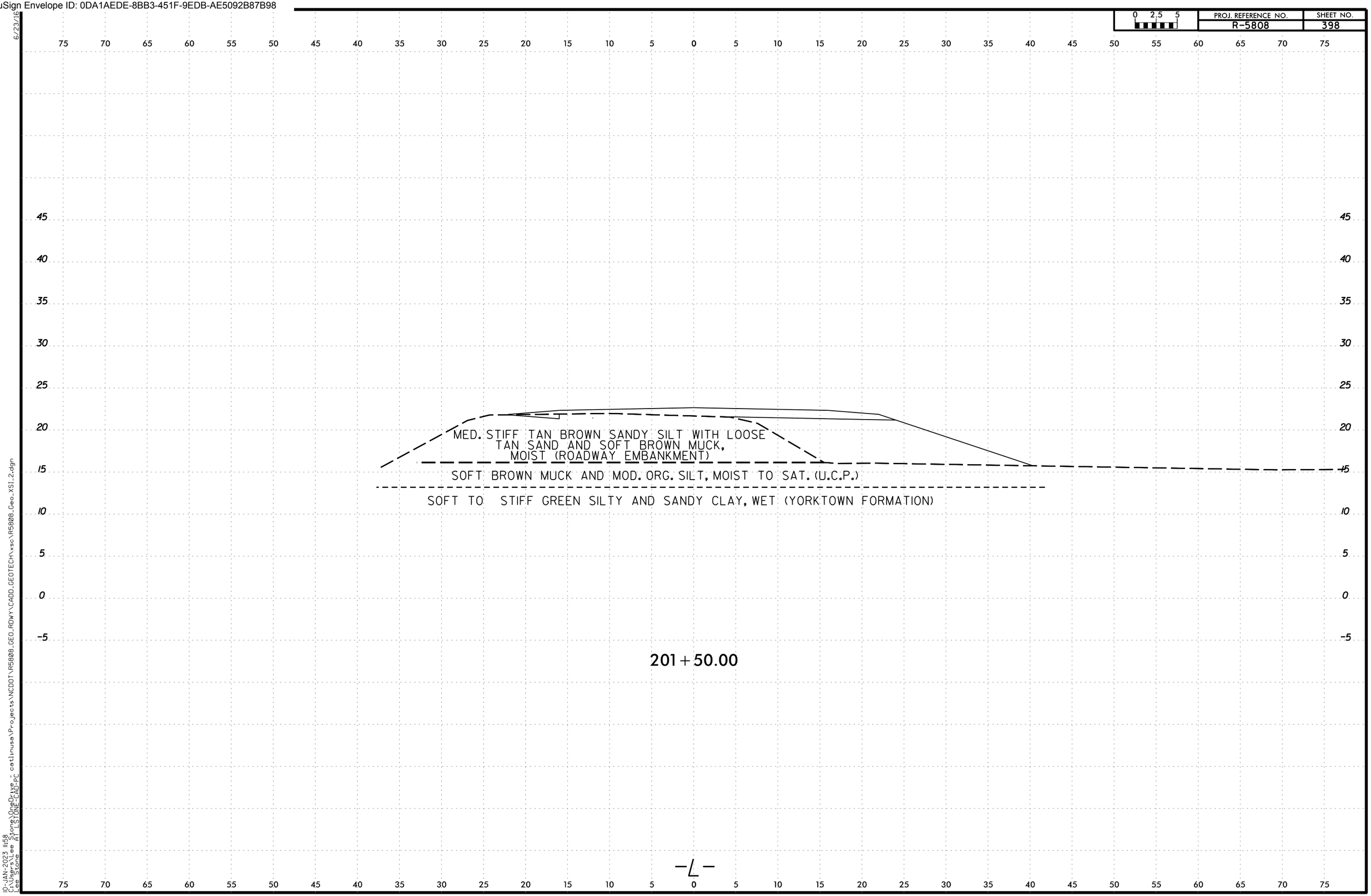
BT

201+00.00

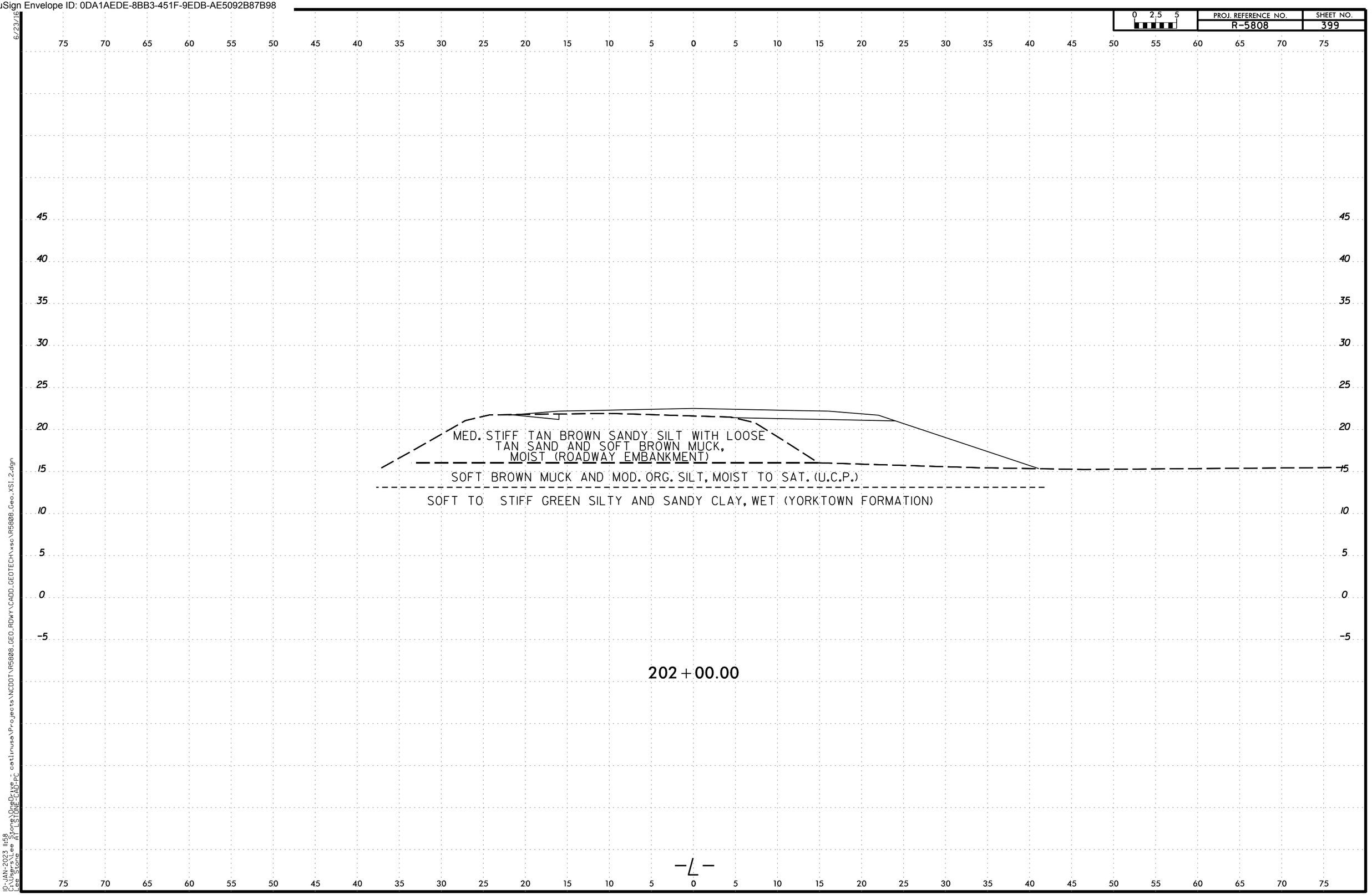
-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	398



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	399



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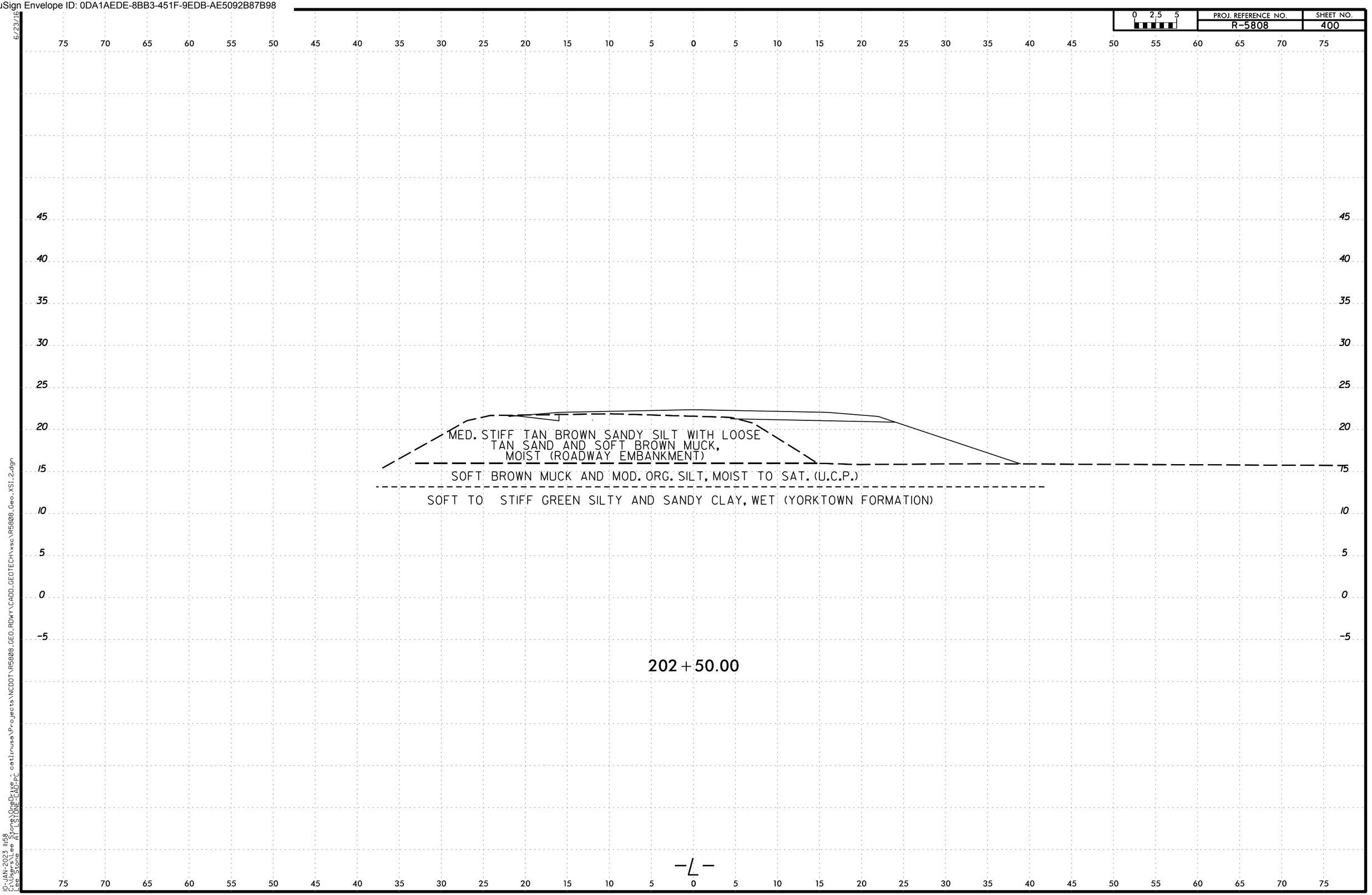
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	400



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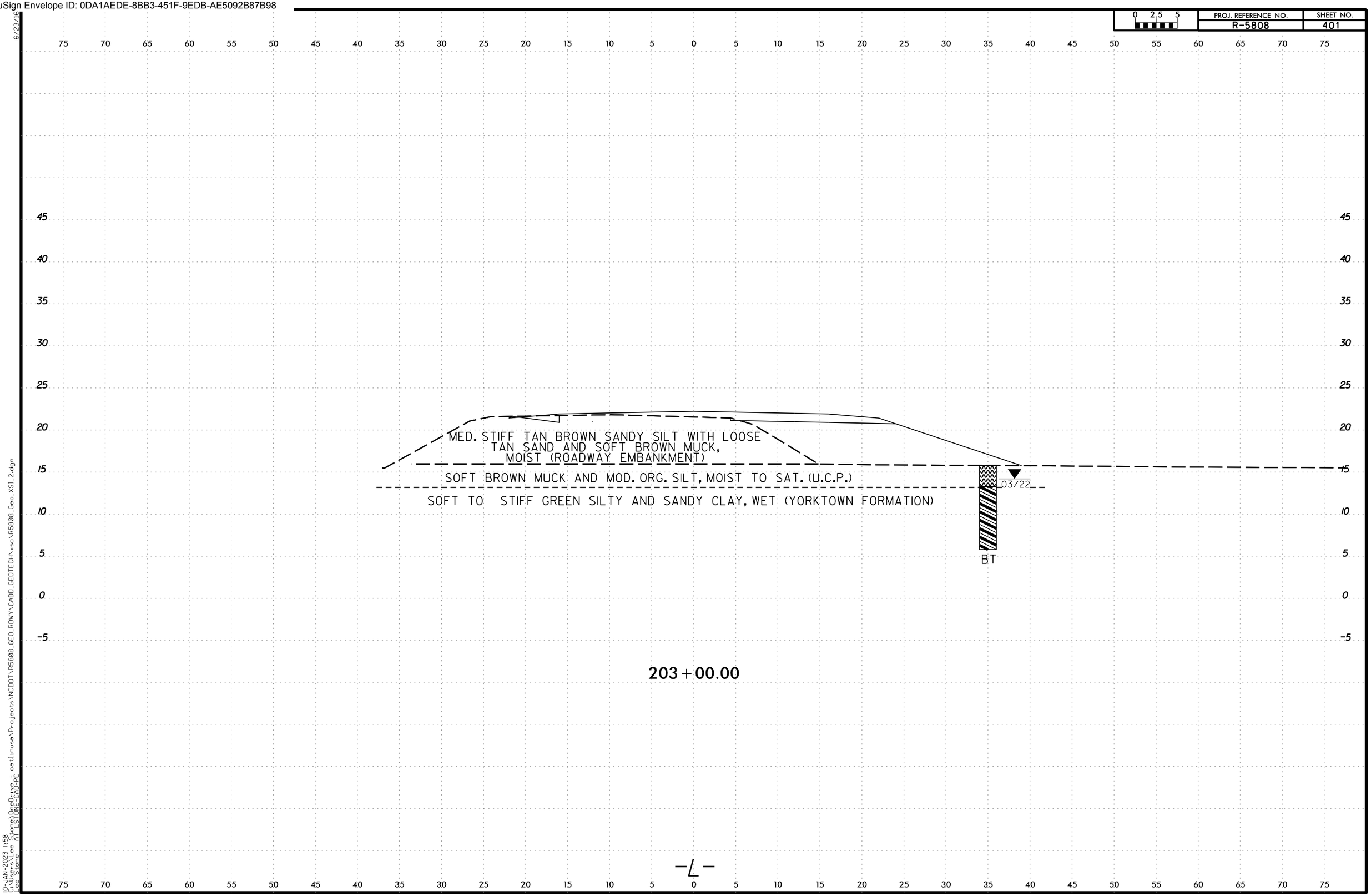
Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	401



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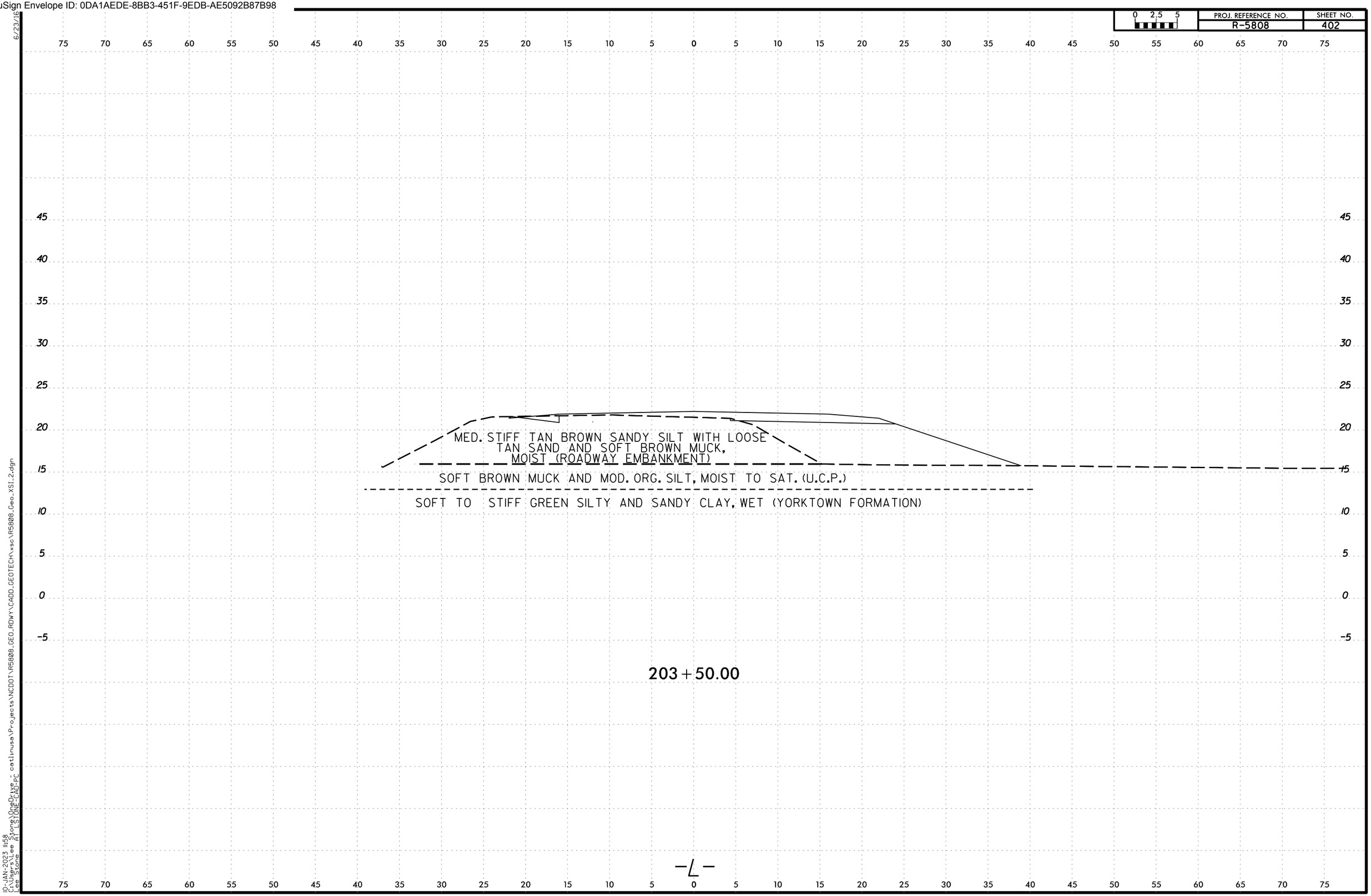
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	402



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	403

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40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

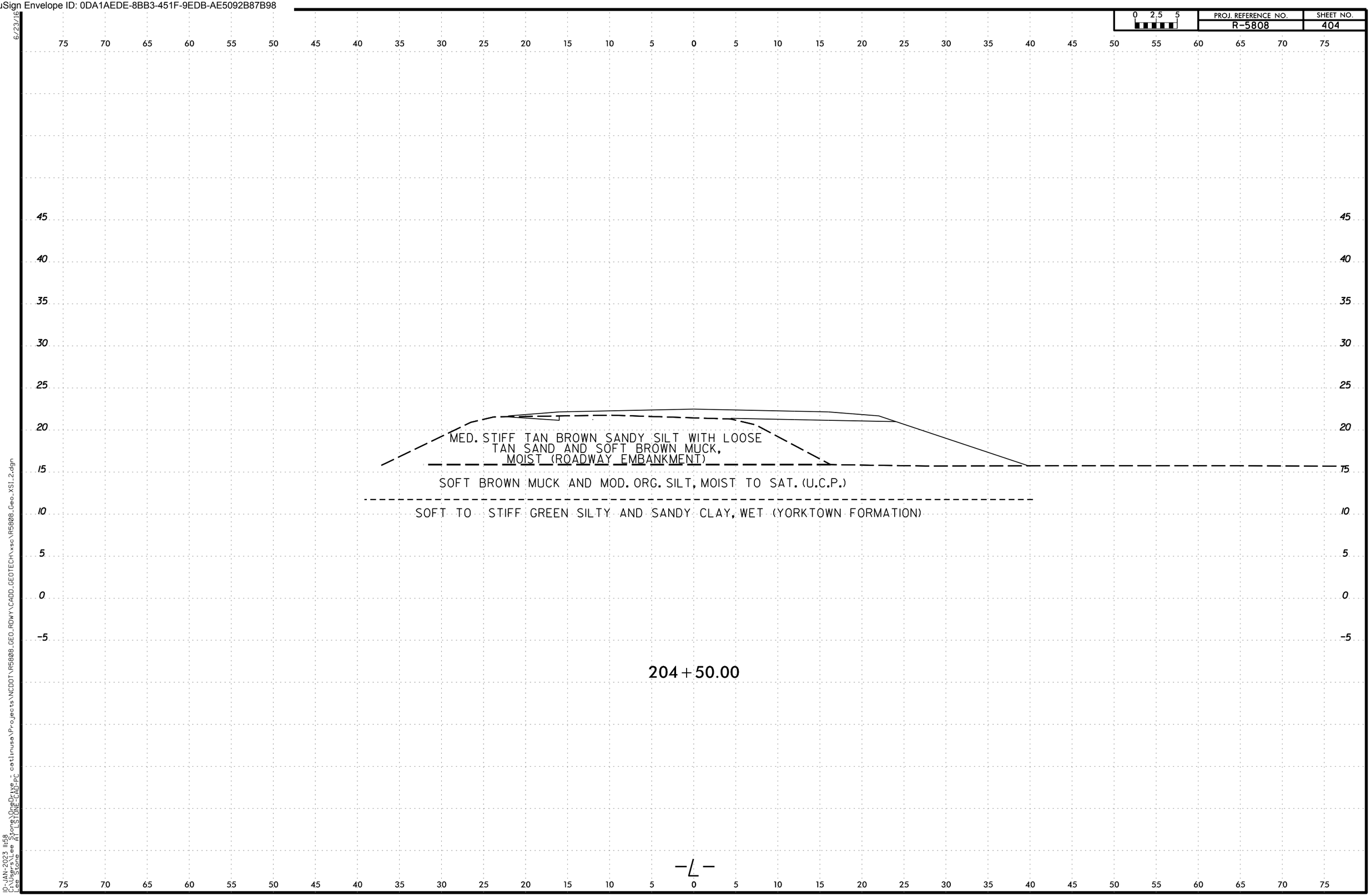
SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

204+00.00

-L-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	404



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6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

SOIL TEST RESULTS

SAMPLE NUMBER	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-115	35 ft RT	205+00	0.0 - 2.0	A-5(15)	61	6	1.7	6.1	73.7	18.5	99.3	99	96	-	-
SS-116	35 ft RT	205+00	3.0 - 4.0	A-6(20)	36	20	0.1	7.7	53.6	38.6	100	100	98	-	-
SS-117	35 ft RT	205+00	4.5 - 6.0	A-6(12)	31	13	0.3	12.8	62.6	24.3	100	100	98	-	-
SS-118	35 ft RT	205+00	6.0 - 8.0	A-6(15)	34	15	0.3	12.0	61.4	26.3	100	100	98	-	-
SS-119	35 ft RT	205+00	8.0 - 10.0	A-6(15)	36	19	5.4	24.4	35.8	34.4	100	100	83	-	-

SS-115
SS-116
SS-117
SS-118
SS-119

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND SOFT BROWN MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO STIFF GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

2
6
9
6
2

03/22

BT

205+00.00

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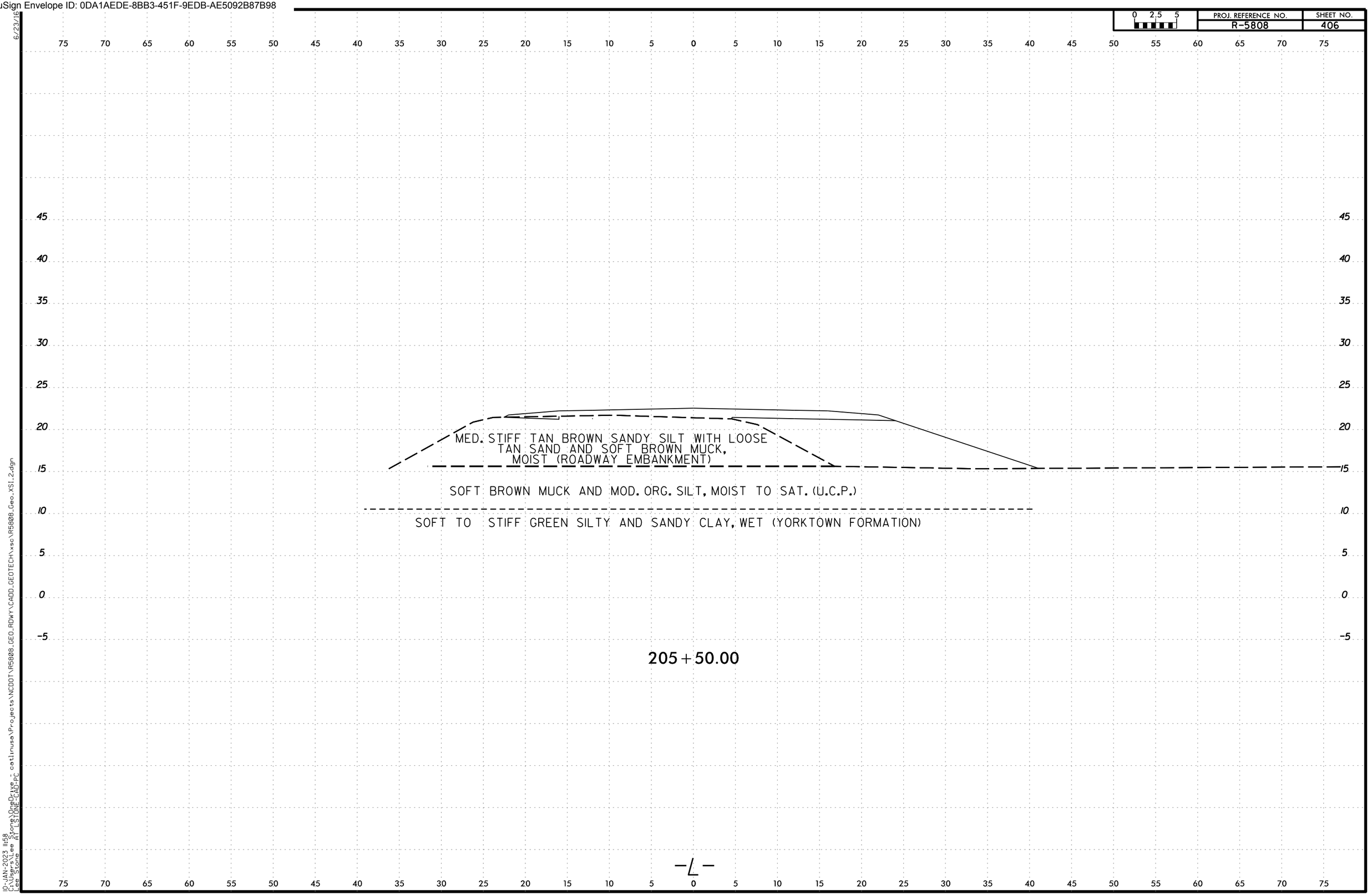
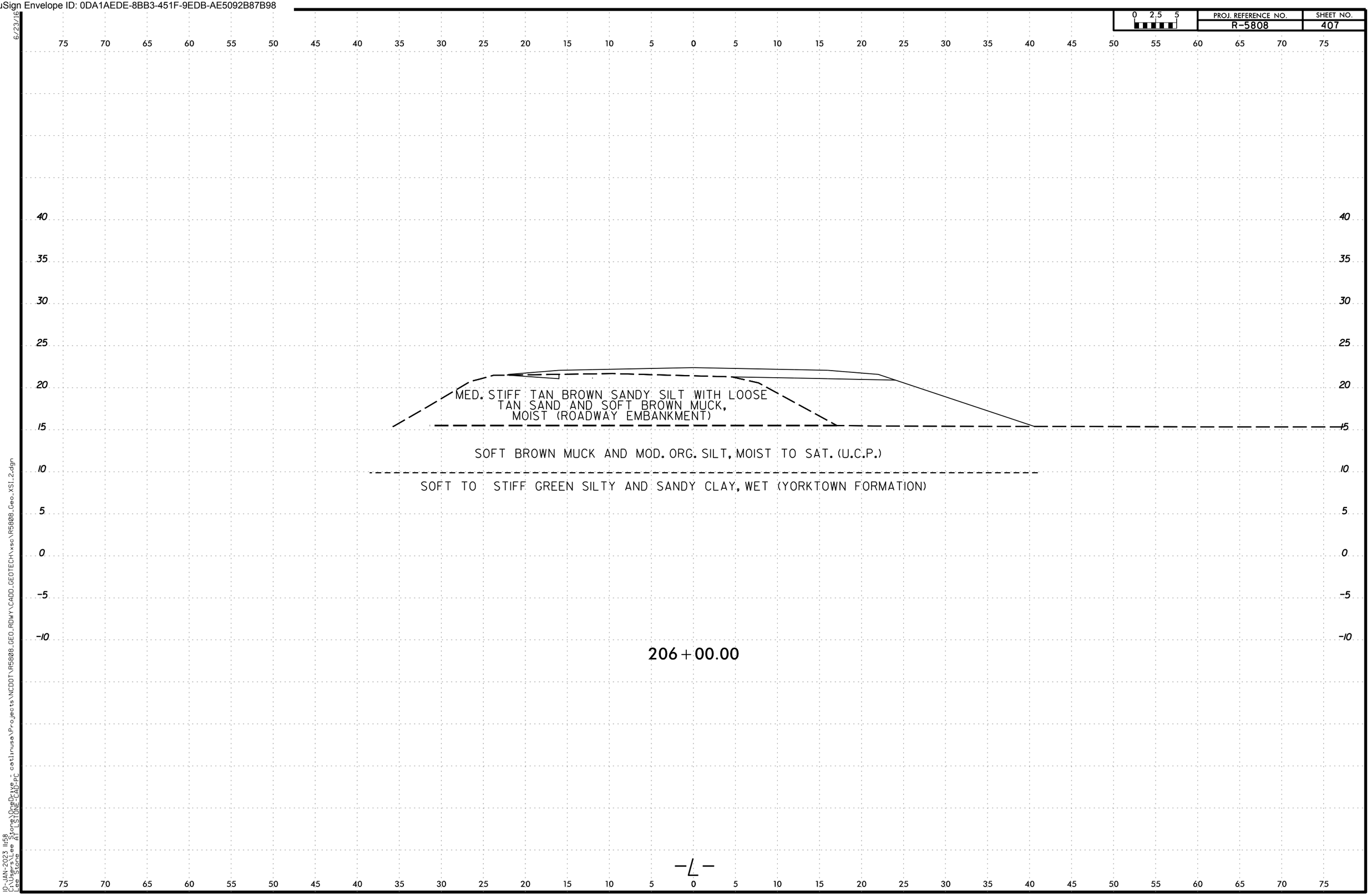
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	406



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	407



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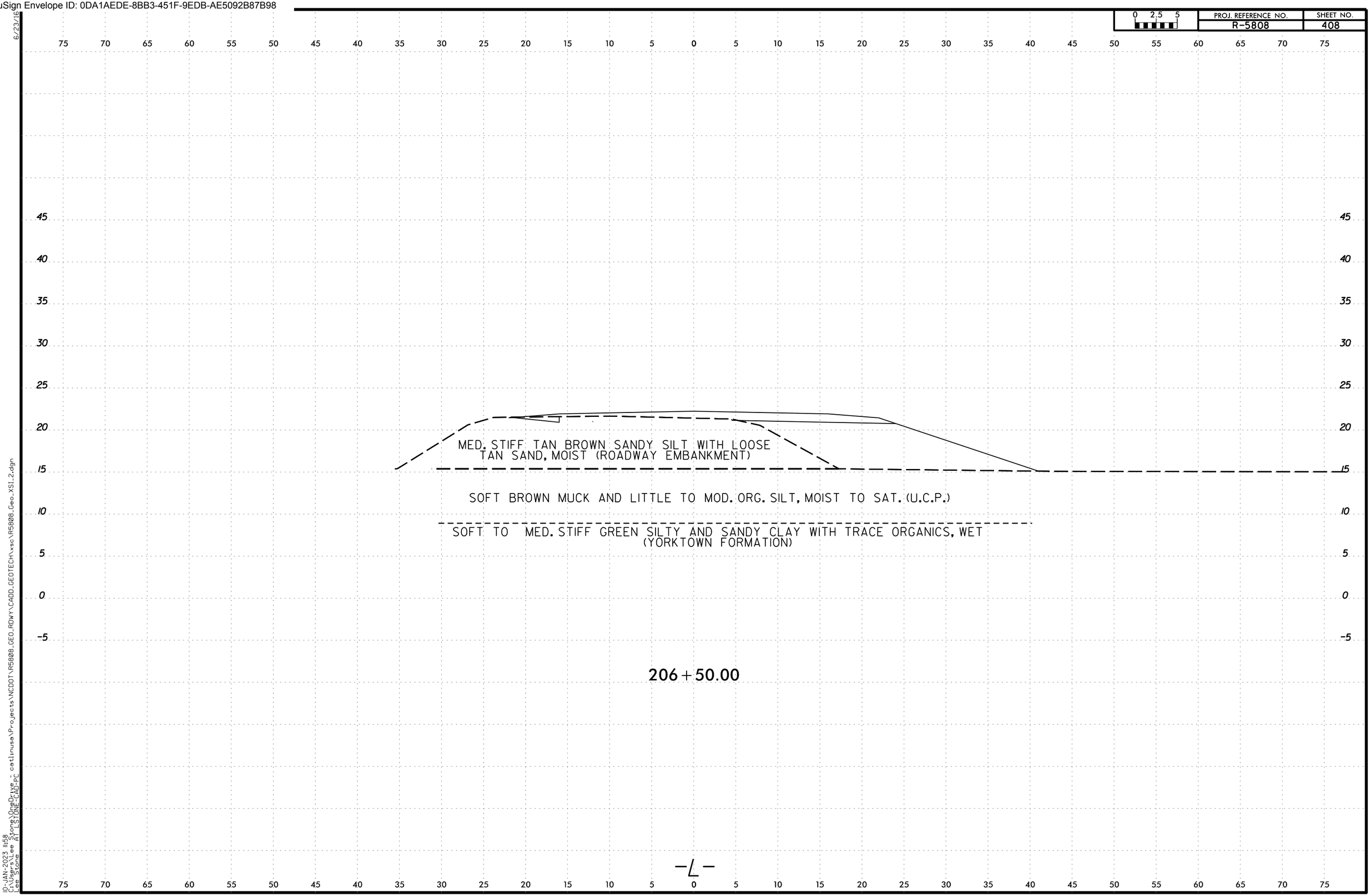
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	408



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Lee Stone AT STONE_CAD_PC

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	409

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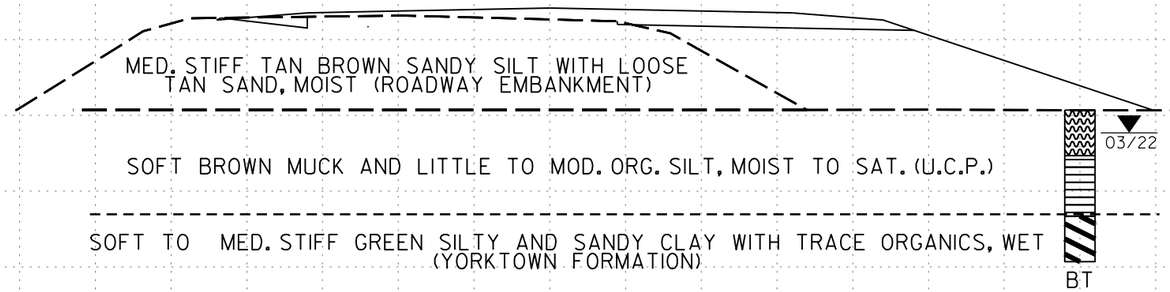
45 40 35 30 25 20 15 10 5 0 -5 -10



207+00.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	410

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40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET
(YORKTOWN FORMATION)

207+50.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	411

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

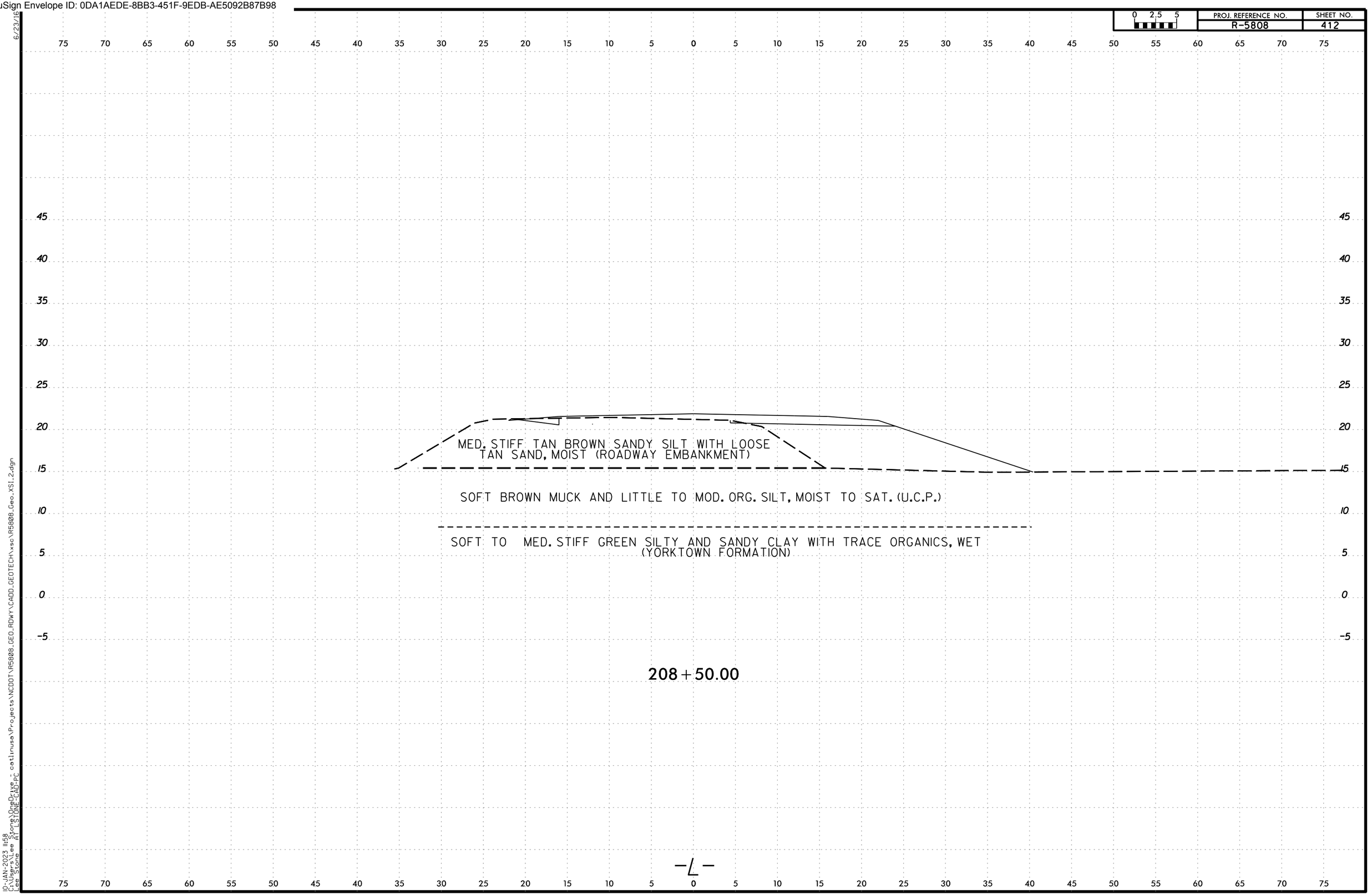
SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

208+00.00

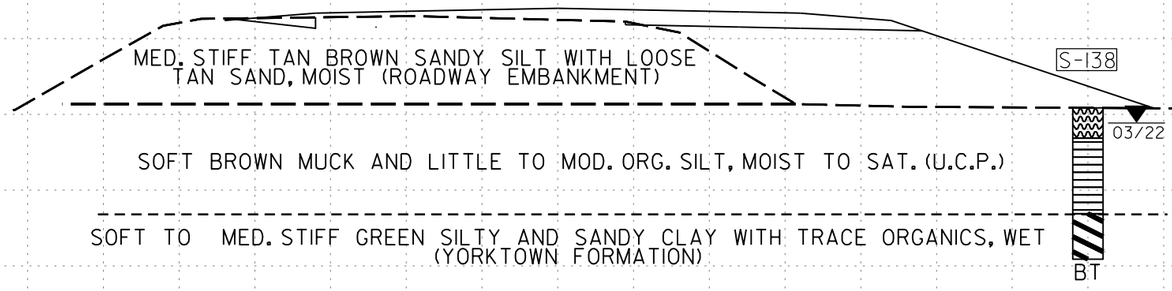
-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	412



SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-138	35 ft RT	209+00	1.0 - 1.5	A-5(13)	62	3	1.3	3.4	76.4	18.9	100	99	97	99	32.3



209+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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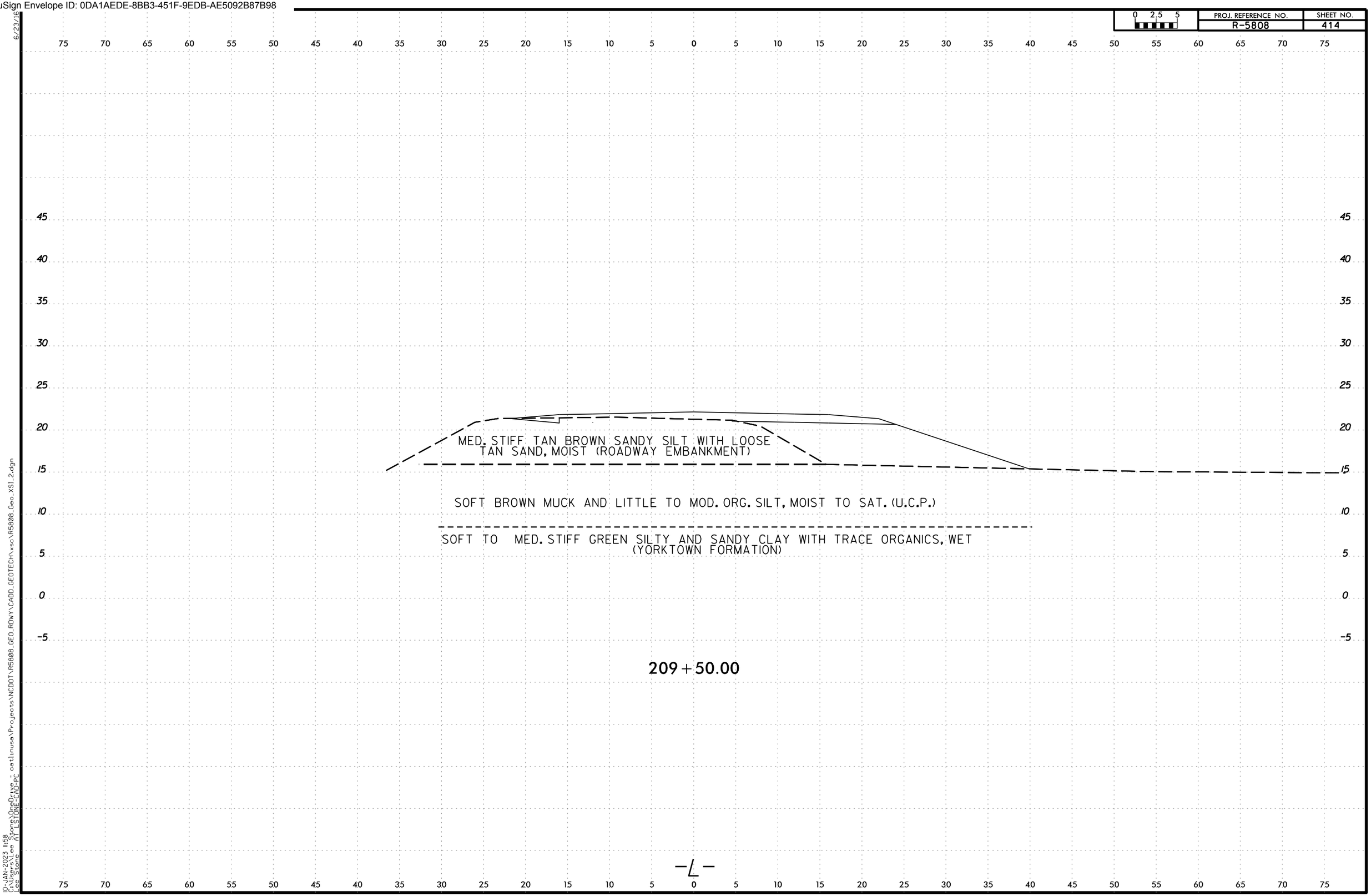

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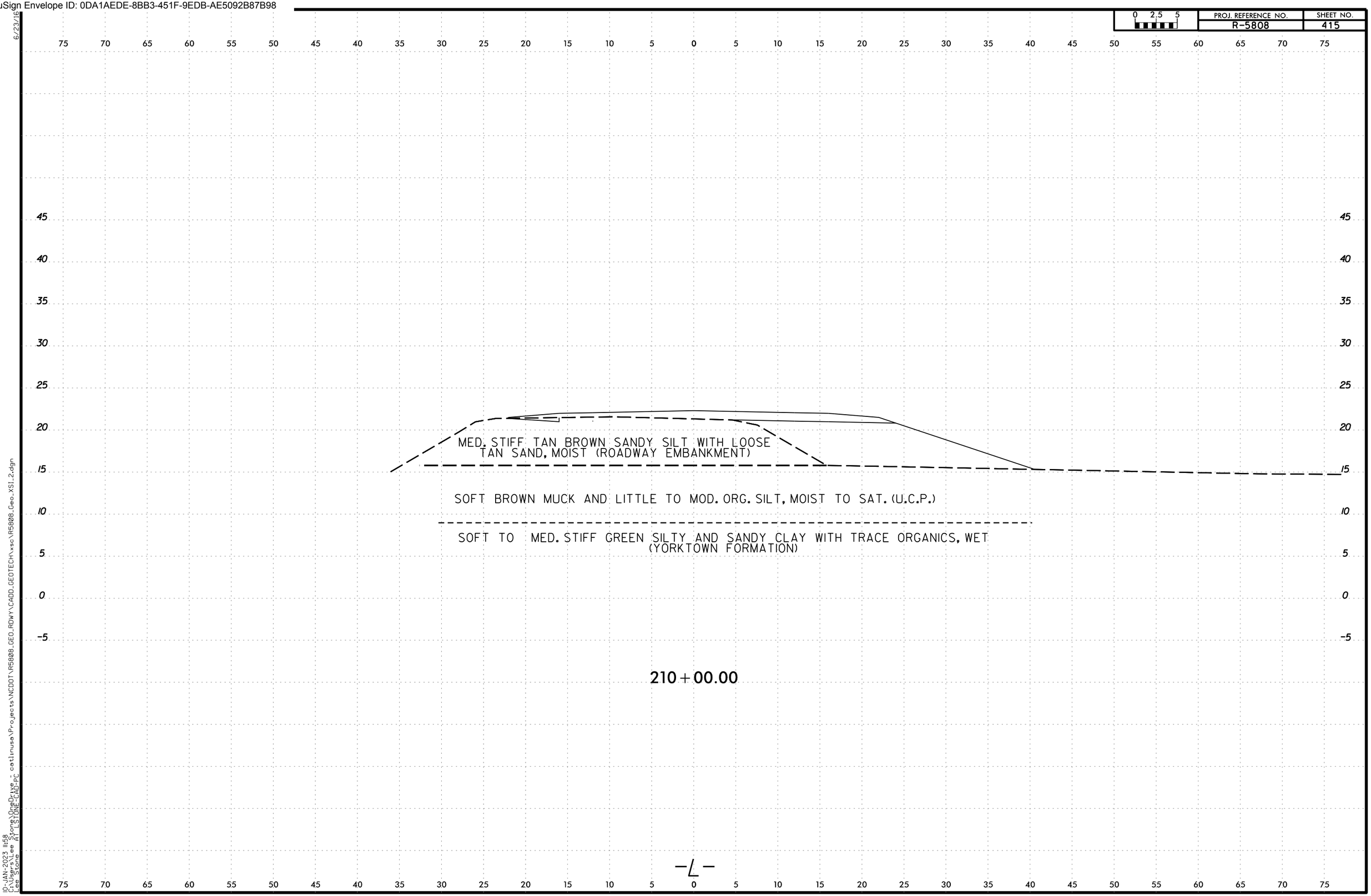
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	415



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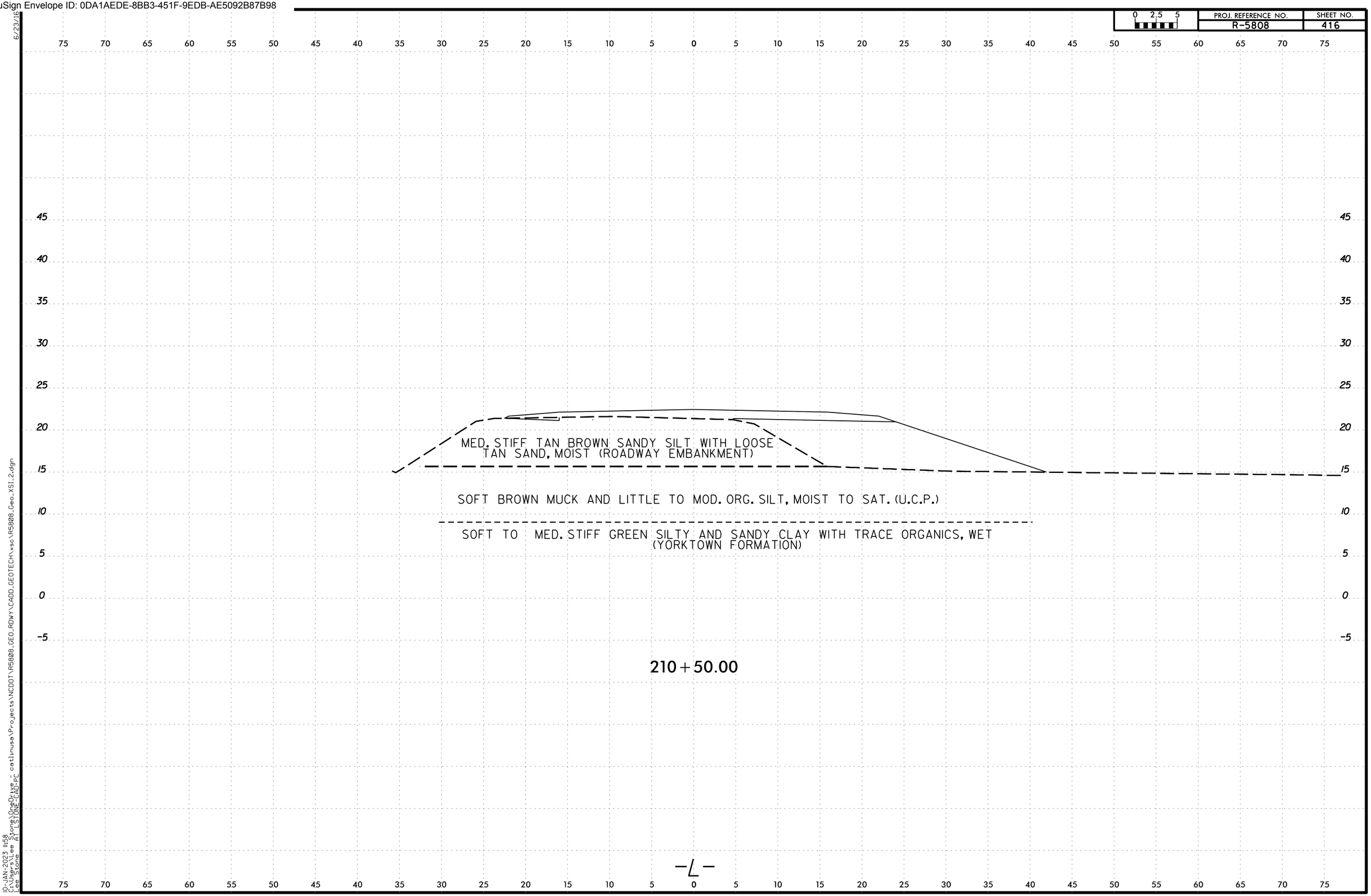

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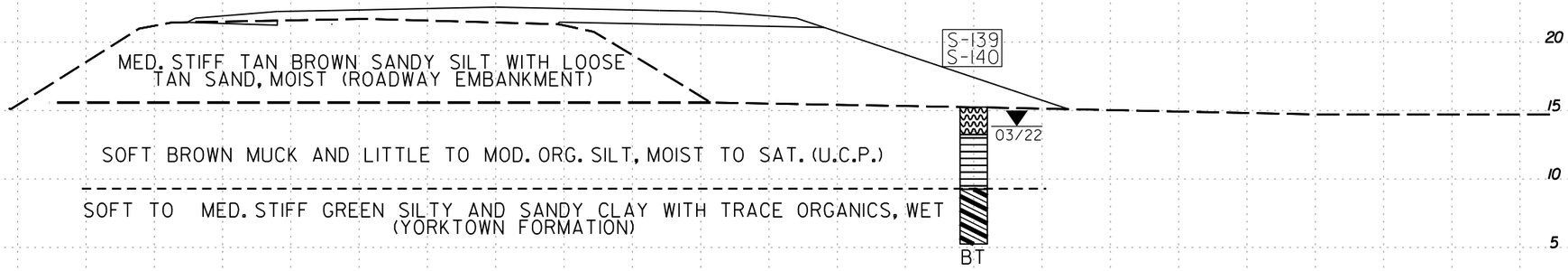
Lee Stone AT LSTONE-CAD-PC

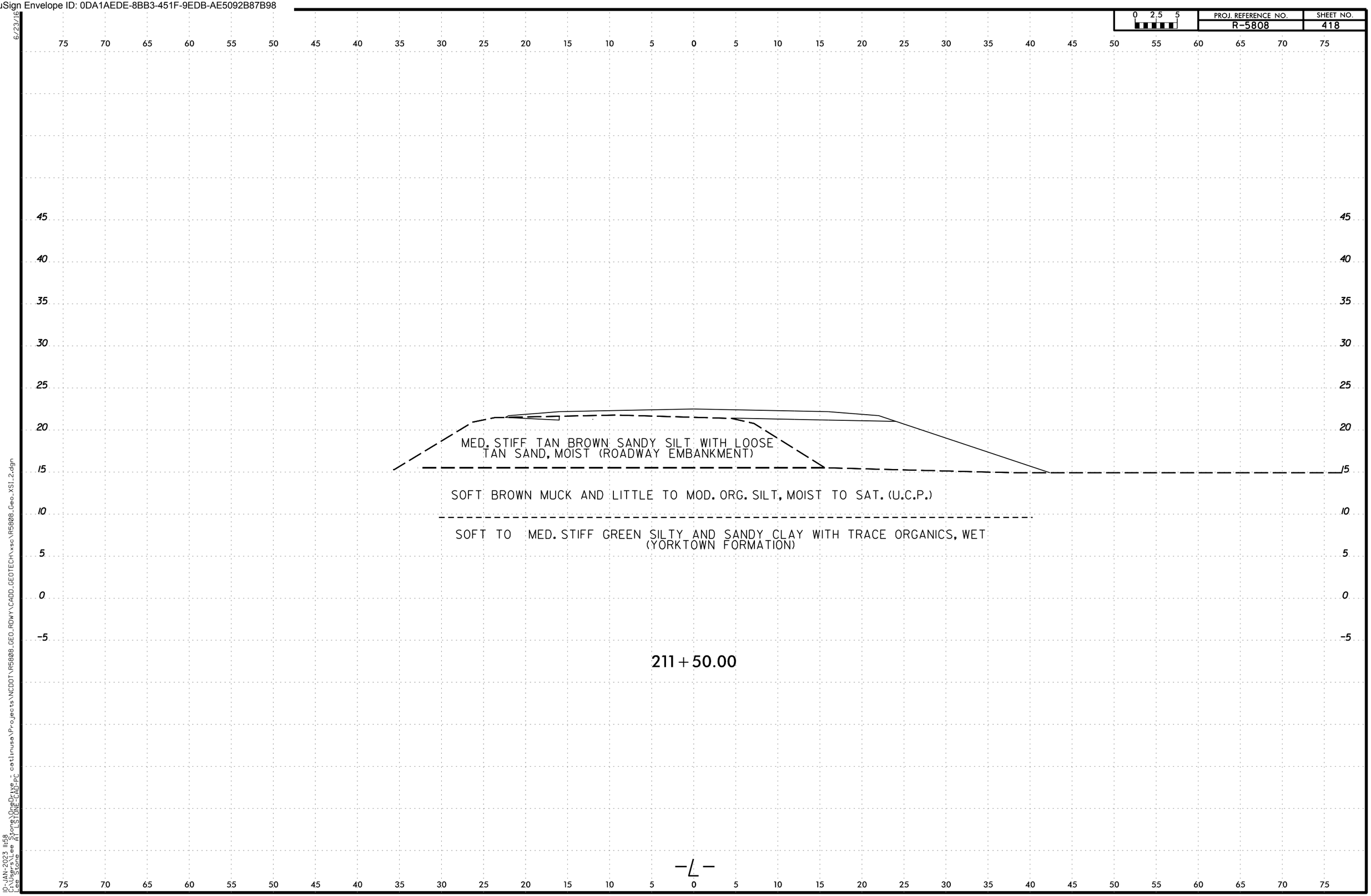
SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-139	35 ft RT	211+00	0.5 - 1.5	A-5(13)	58	4	1.5	4.9	79.6	14.0	99.2	99	97	90	24.4
S-140	35 ft RT	211+00	6.5 - 7.0	A-6(10)	28	11	0.1	11.8	64.1	23.9	99.9	100	98	-	-



211+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	418



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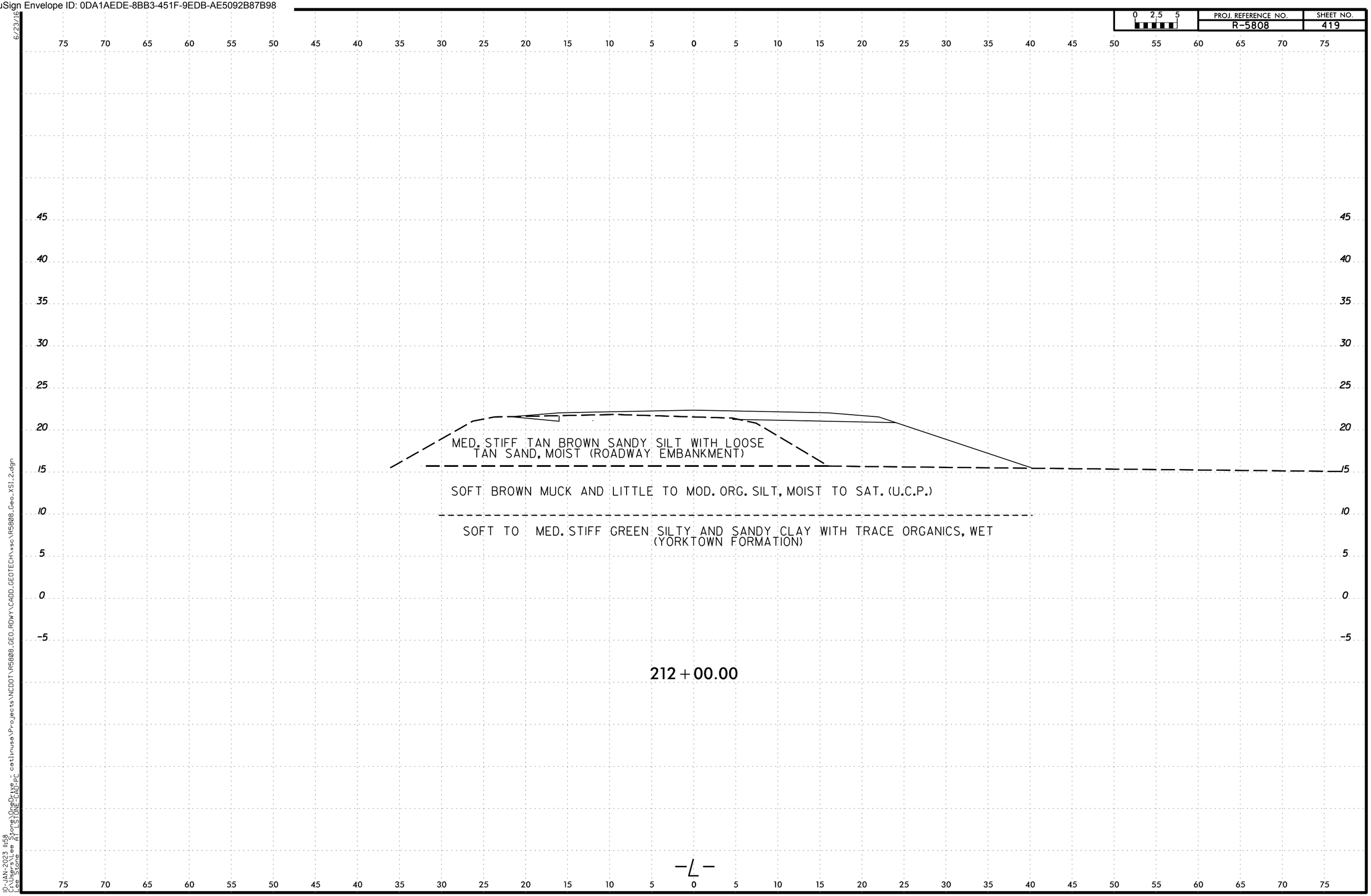

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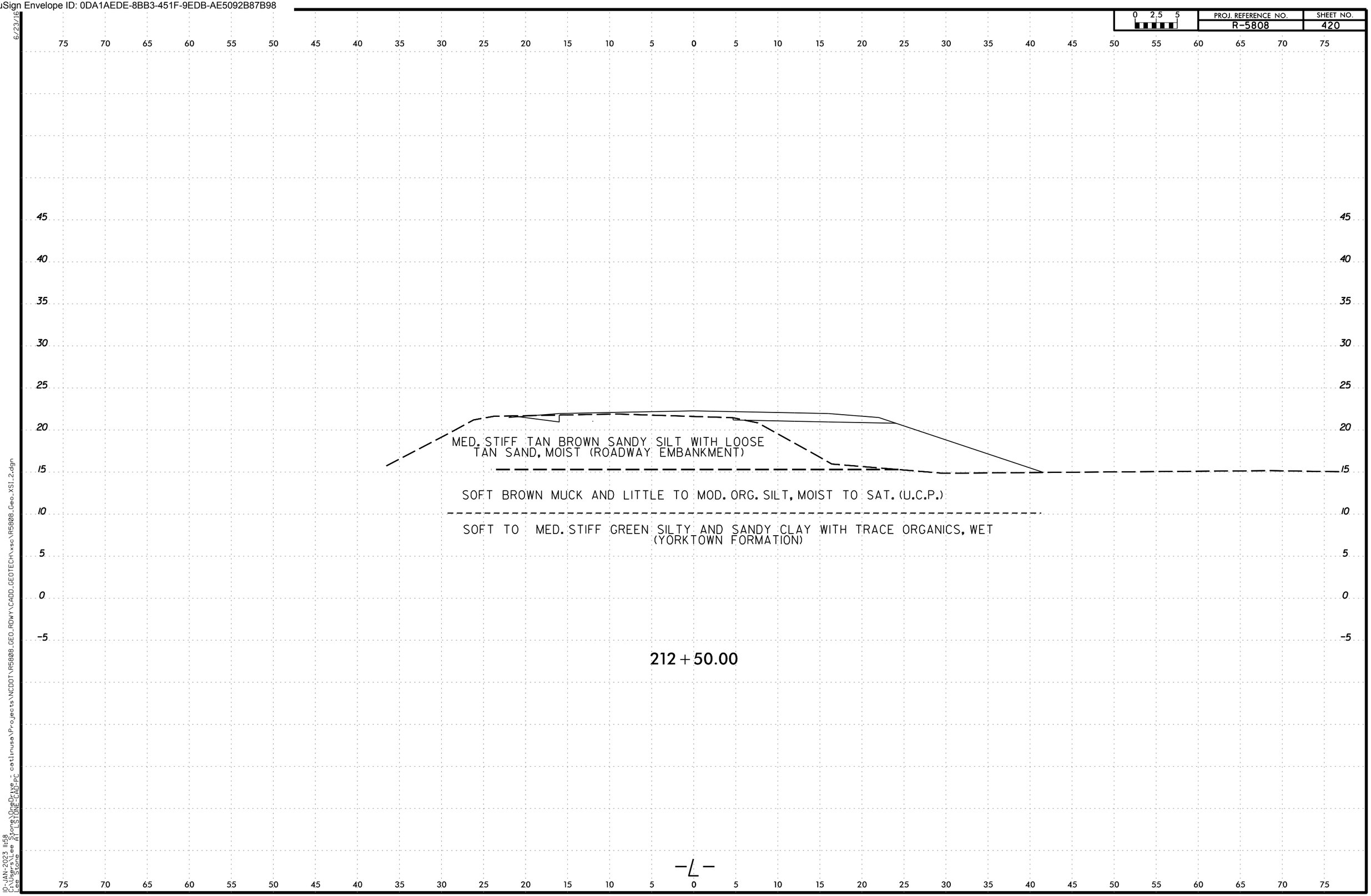
	R-5808	420



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	421

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

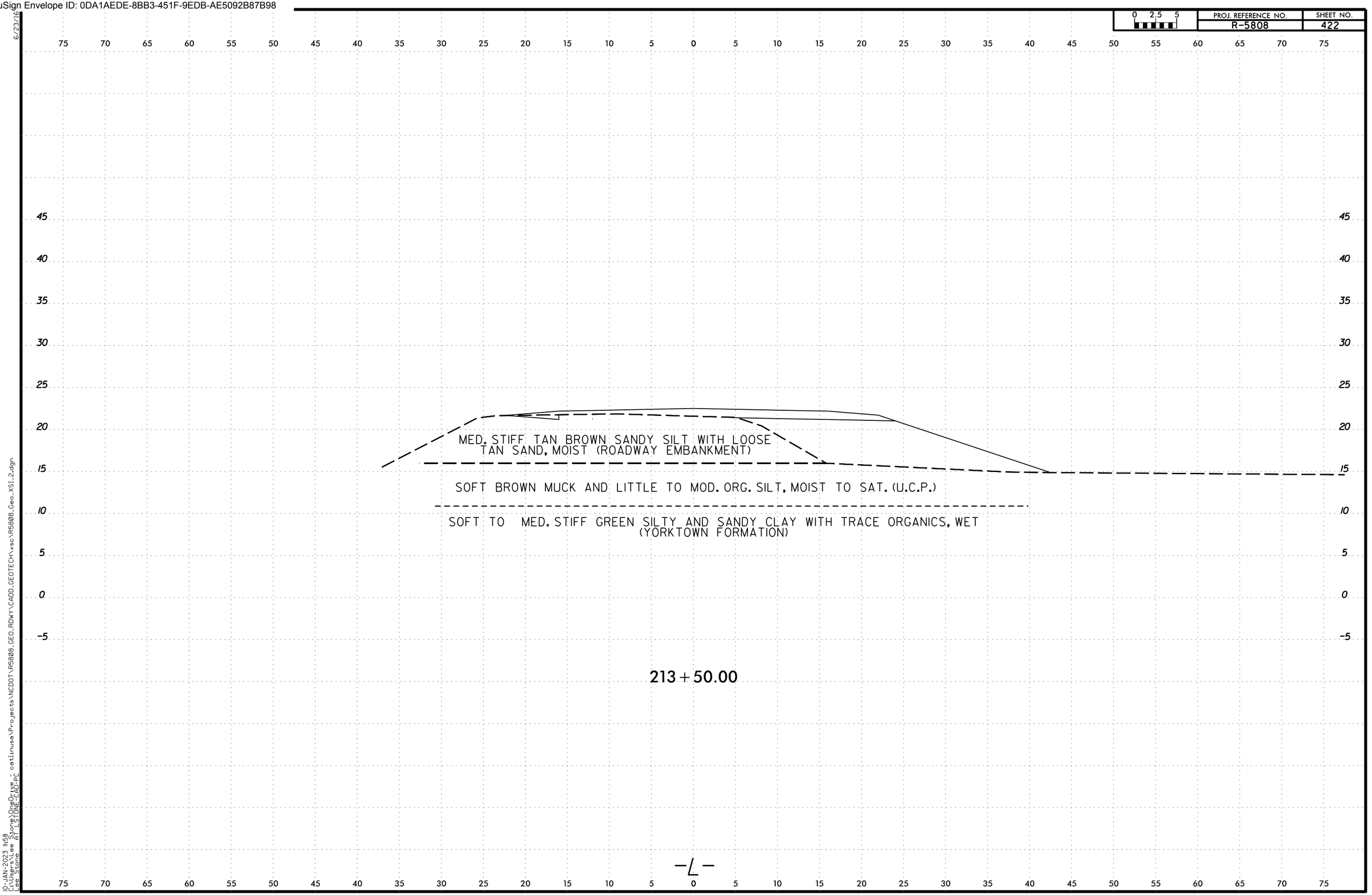
03/22

BT

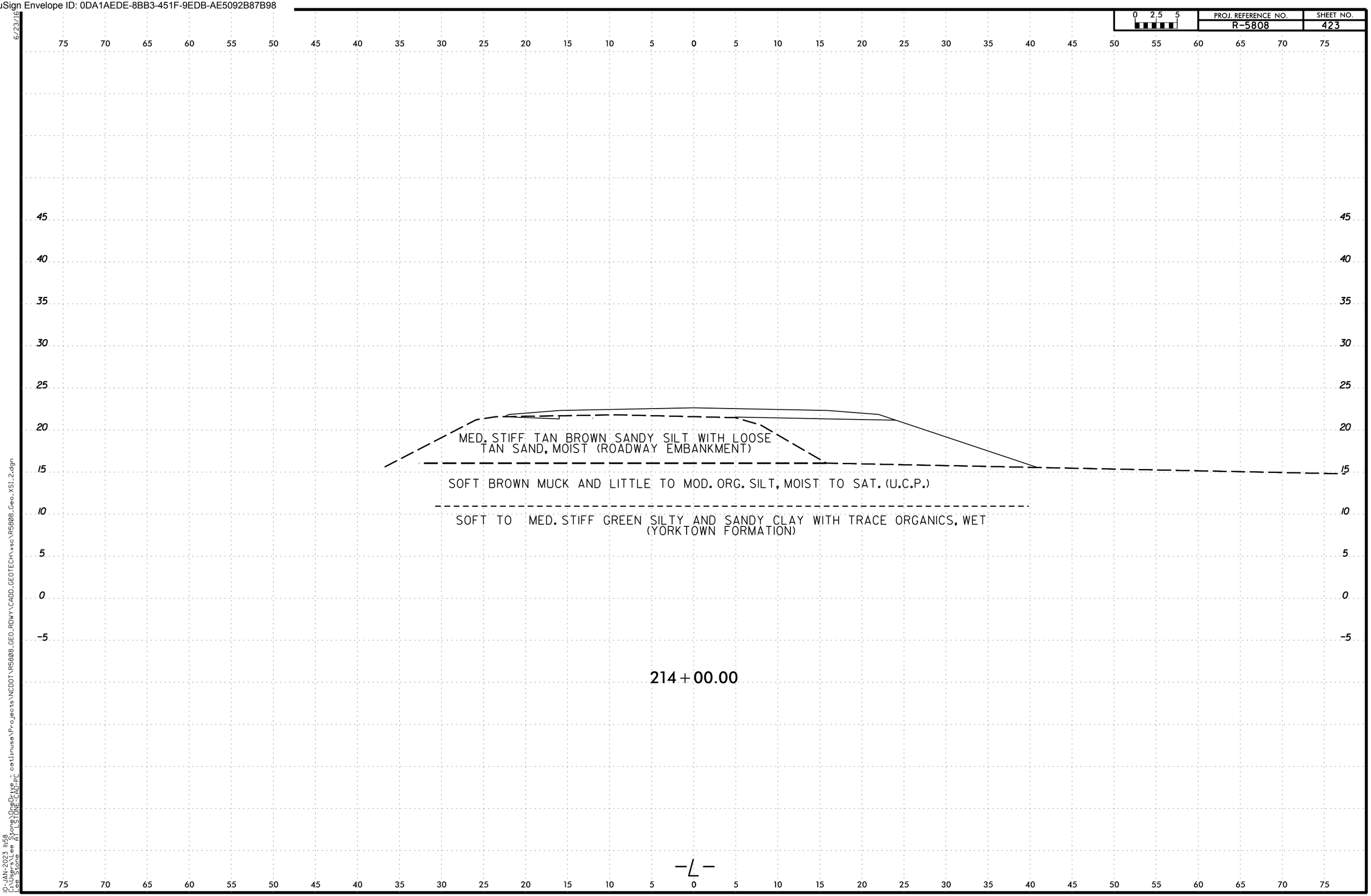
213+00.00

-L-

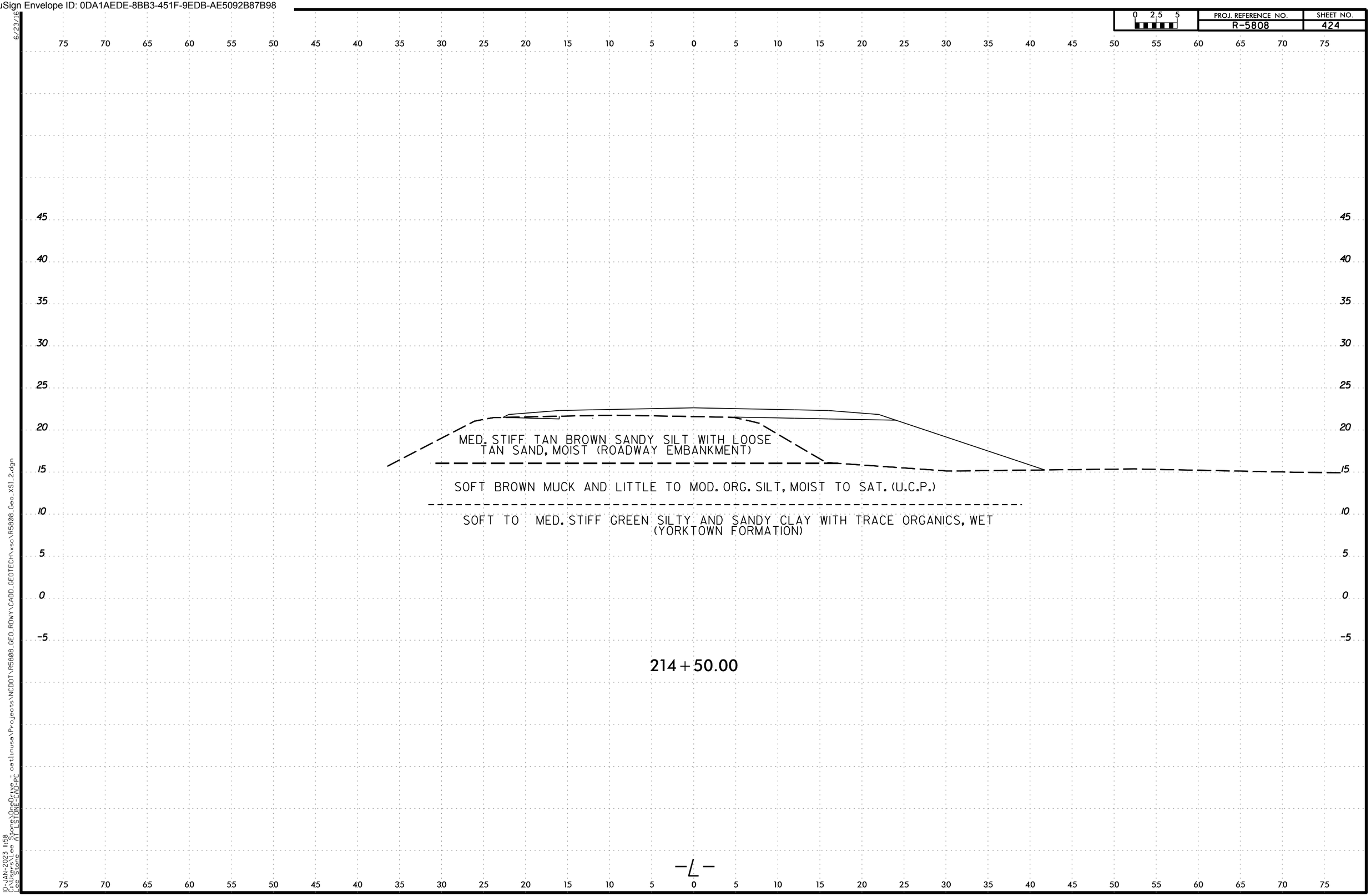
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	422



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	423

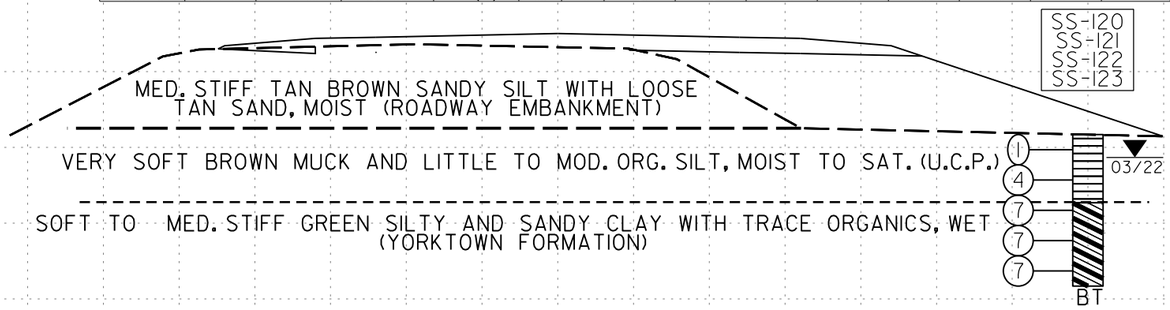


0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	424



SOIL TEST RESULTS

SAMPLE NUMBER	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-120	35 ft RT	215+00	0.0 - 2.0	A-4(5)	33	4	3.4	10.5	59.8	26.4	99.8	98	93	-	10.1
SS-121	35 ft RT	215+00	2.0 - 4.0	A-6(10)	29	12	1.0	9.8	52.5	36.6	99.9	100	96	-	4.6
SS-122	35 ft RT	215+00	4.5 - 6.0	A-6(13)	31	14	0.2	14.4	59.1	26.4	100	100	98	-	-
SS-123	35 ft RT	215+00	6.0 - 8.0	A-6(20)	38	20	0.6	12.4	54.5	32.5	100	100	97	-	-



215+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	426

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

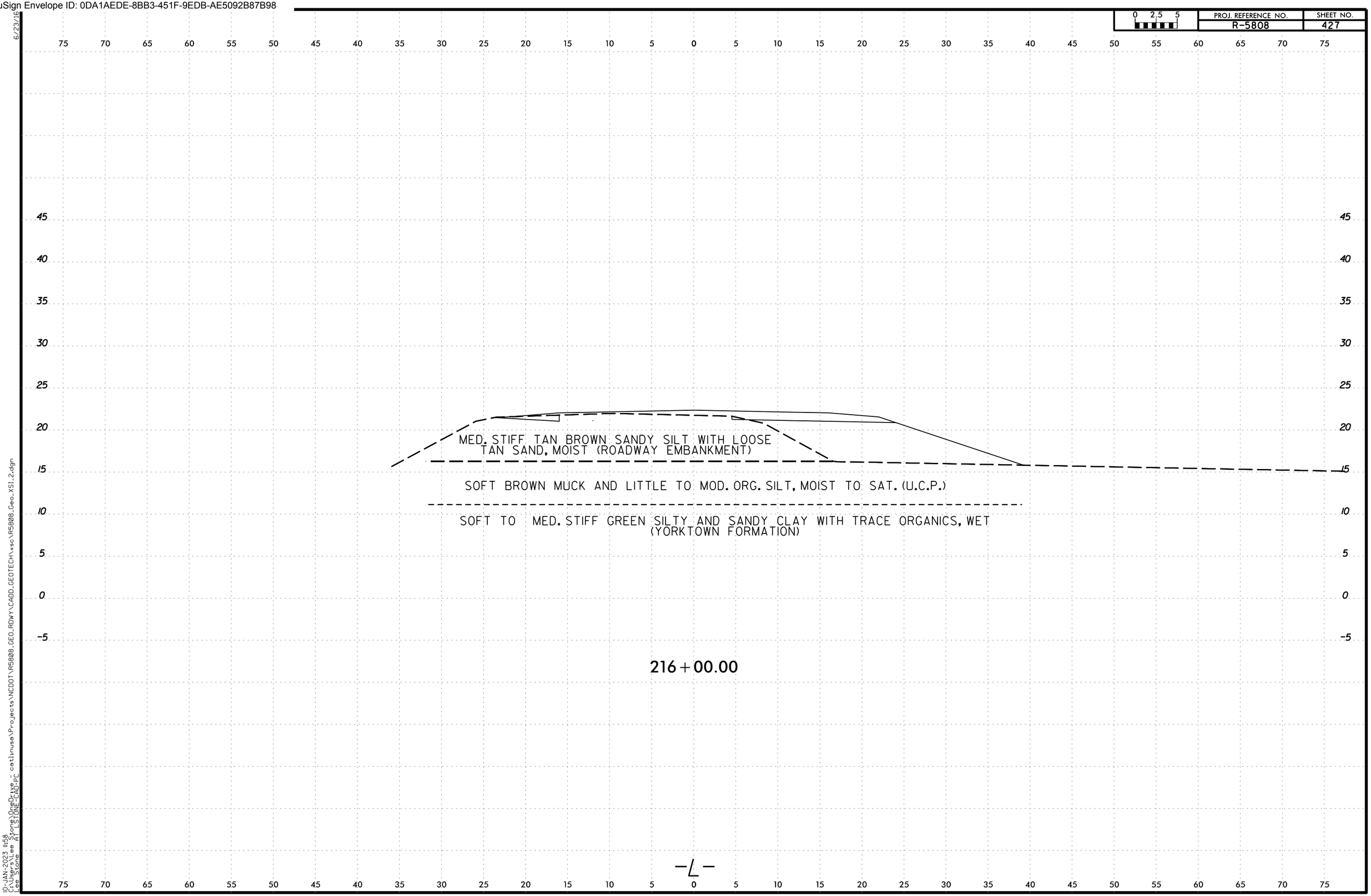
SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

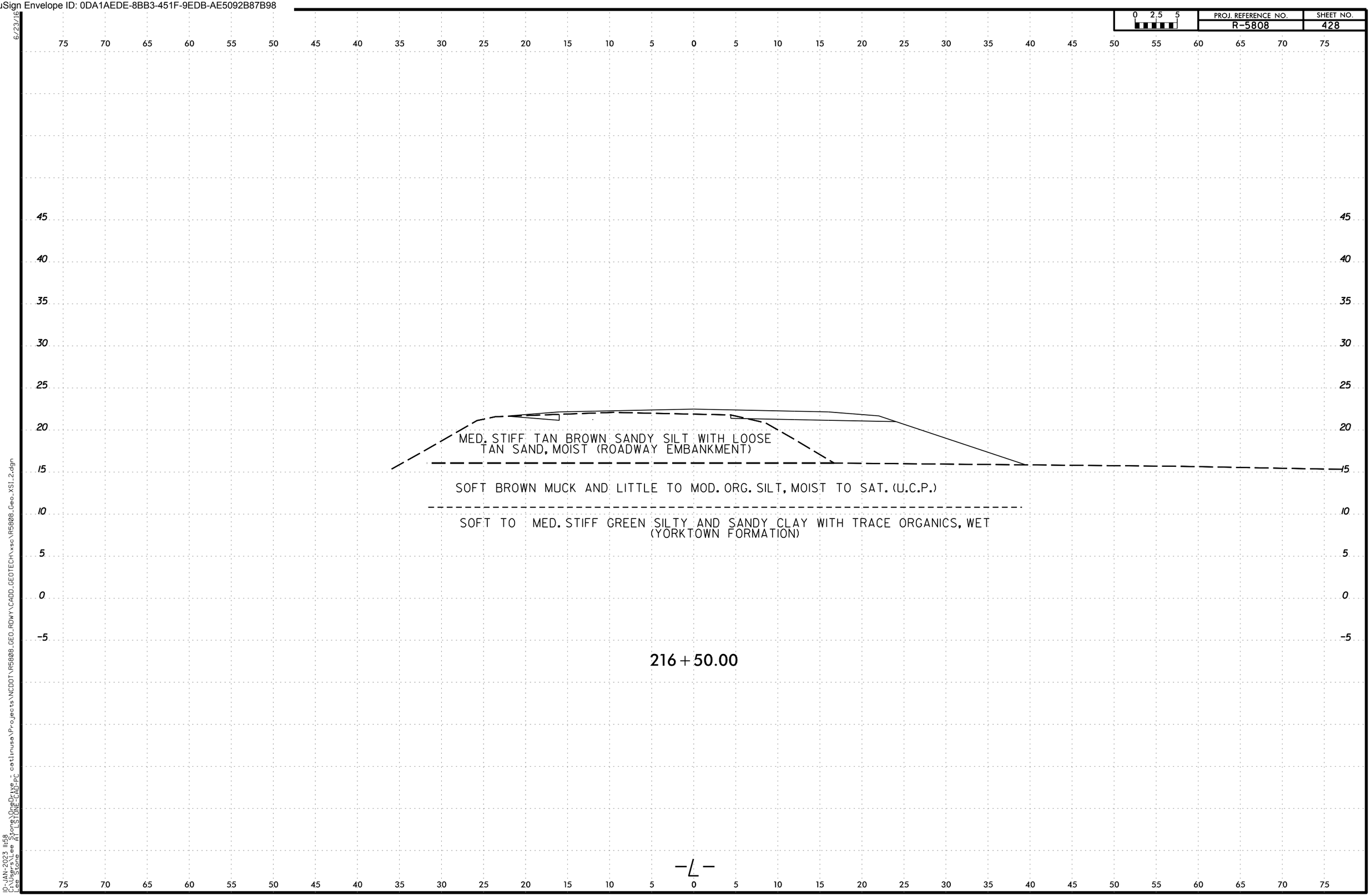
215+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	427



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	428



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	429

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

217+00.00

—L—

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	430

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

45 40 35 30 25 20 15 10 5 0 -5 -10

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

217+50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	431

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

218+00.00

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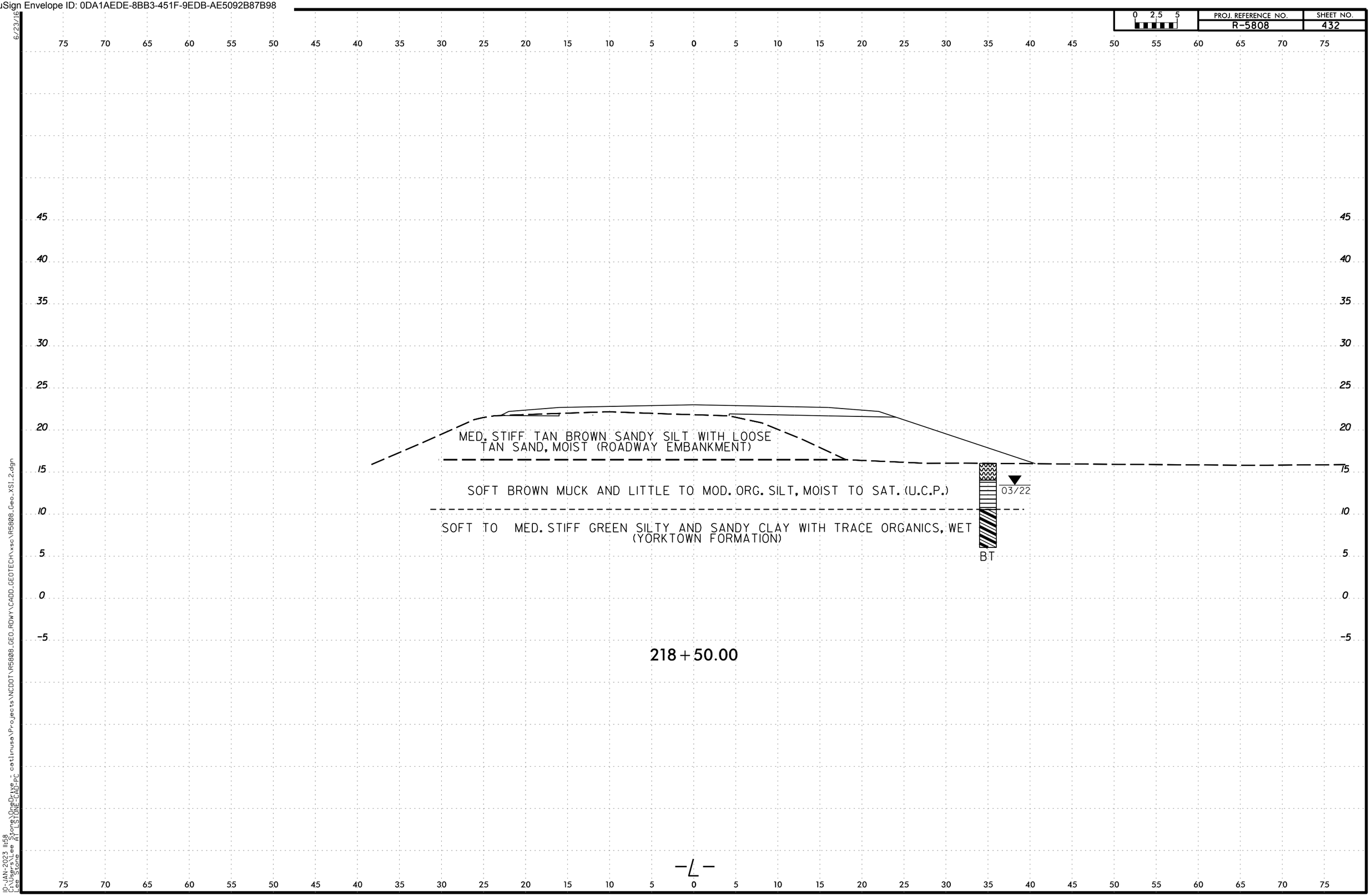
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	432



0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	433

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	434

6/23/16

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50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

SOFT TO MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

219+50.00

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	435

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN MUCK AND LITTLE TO MOD. ORG. SILT, MOIST TO SAT. (U.C.P.)

MED. STIFF GREEN SILTY AND SANDY CLAY WITH TRACE ORGANICS, WET (YORKTOWN FORMATION)

220+00.00

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	436

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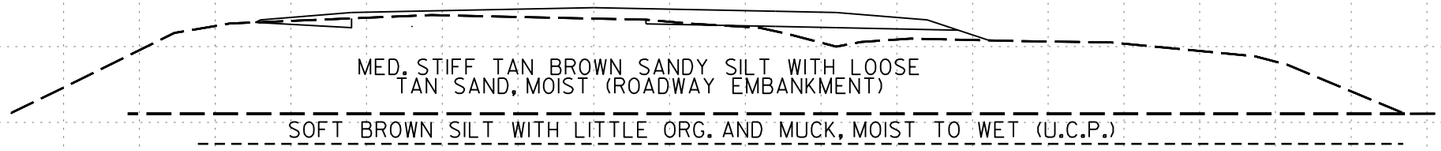
45 40 35 30 25 20 15 10 5 0 -5



220+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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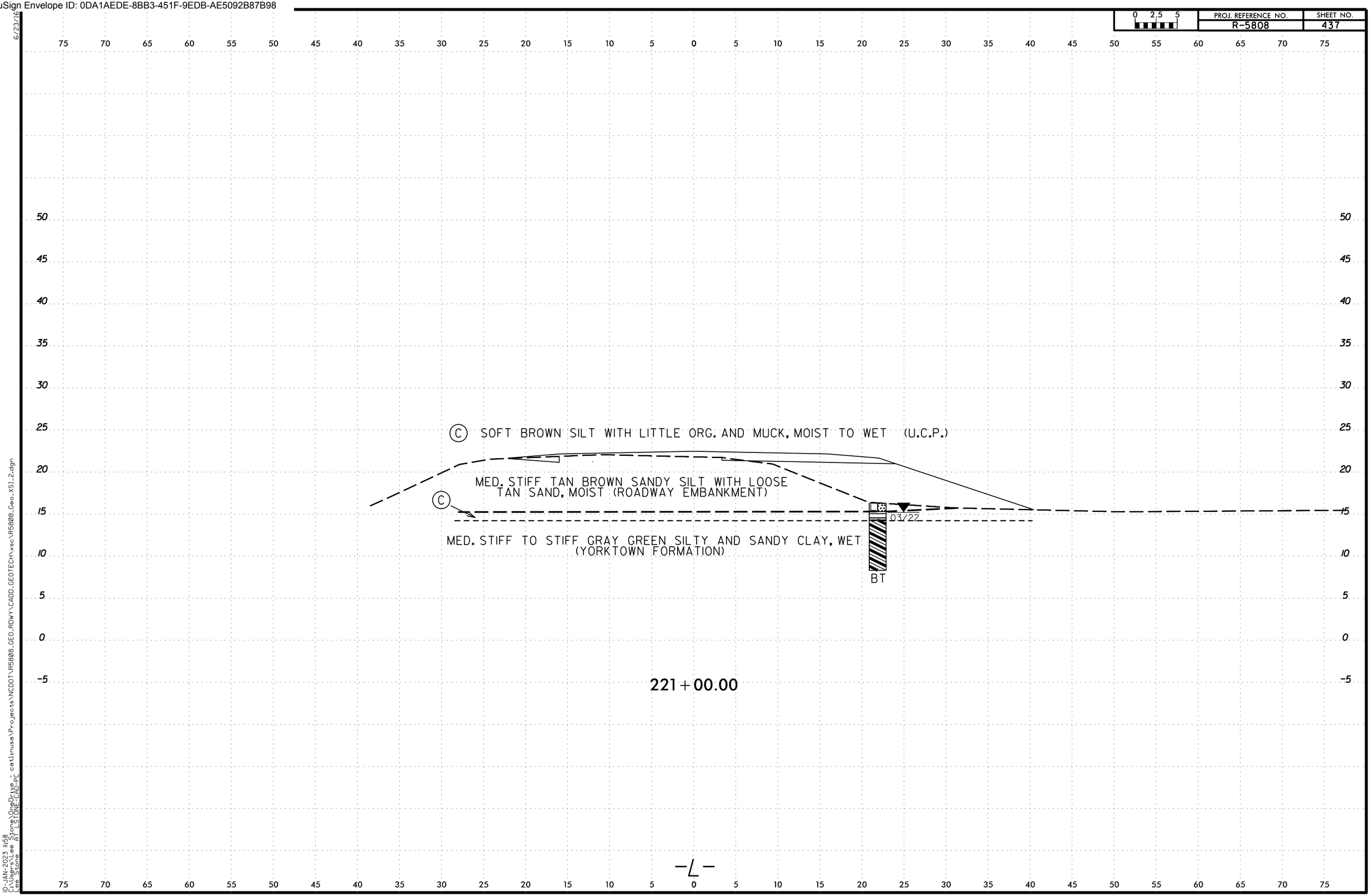

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50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

221+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	439

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

222+00.00

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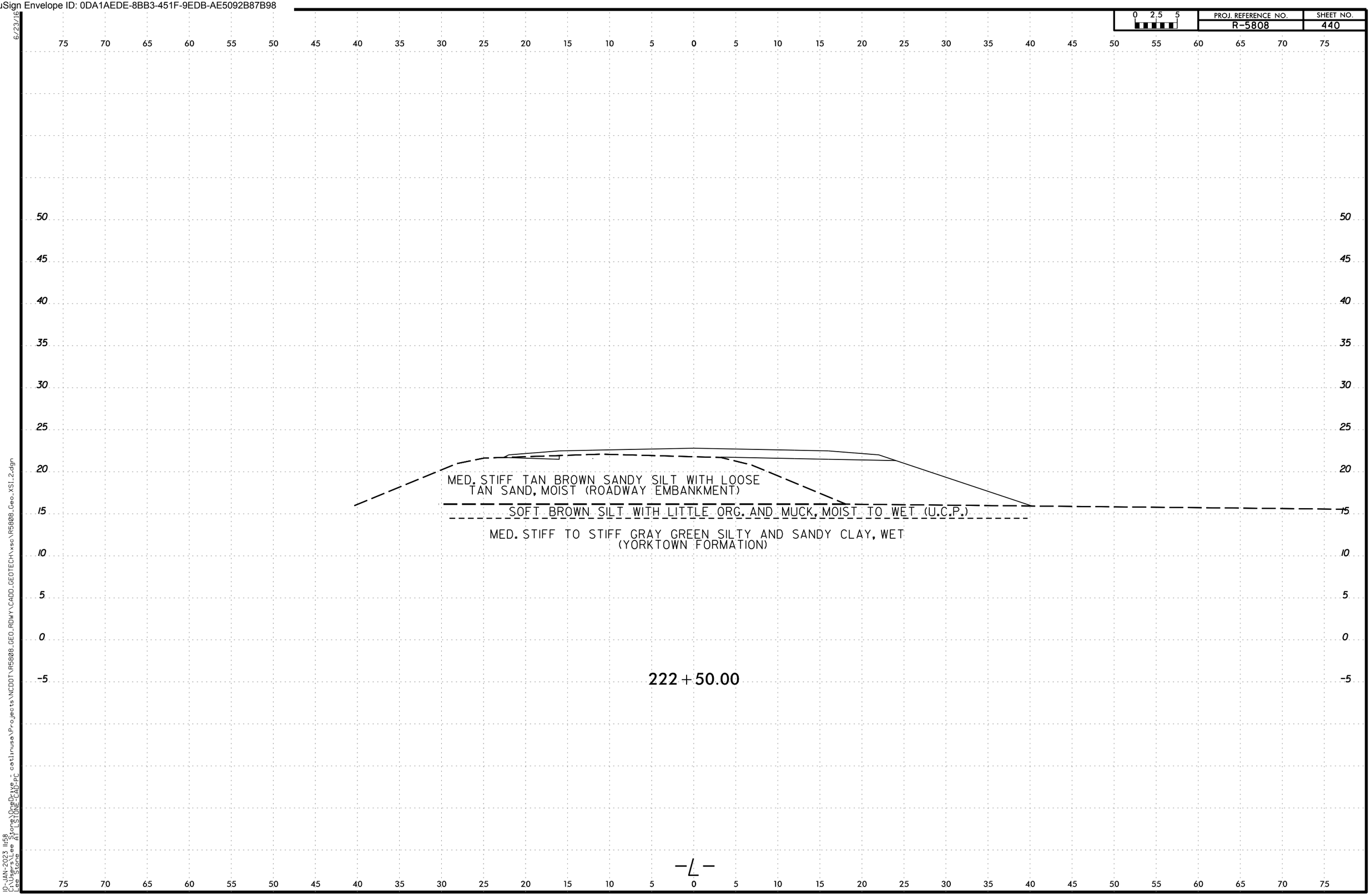
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	440



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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	441

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

03/22

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

BT

223+00.00

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	442

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

223+50.00

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	443

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

224+00.00

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	444

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

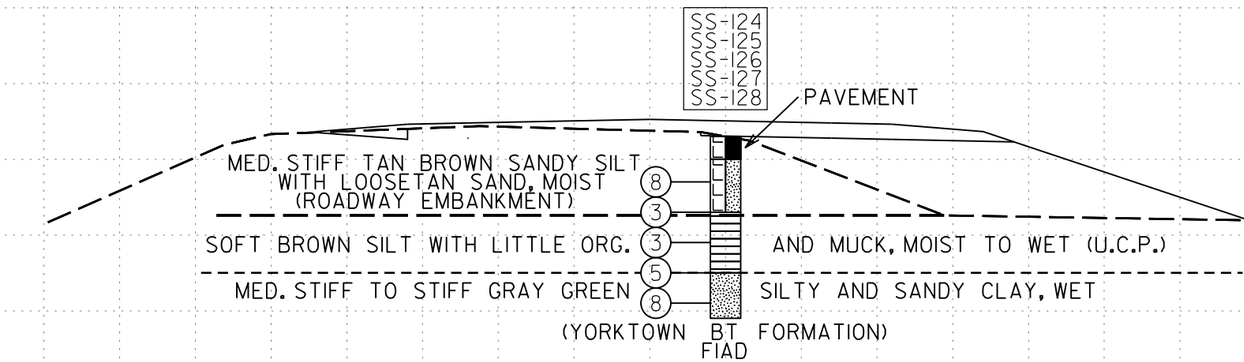
MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

224+50.00

—L—

SOIL TEST RESULTS

SAMPLE NUMBER	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-124	35 ft RT	225+00	2.0 - 4.0	A-4(6)	28	8	1.6	18.2	51.7	28.5	100	99	91	-	-
SS-125	35 ft RT	225+00	4.0 - 6.0	A-6(8)	30	12	7.4	18.4	51.9	22.2	87.2	97	80	-	6.5
SS-126	35 ft RT	225+00	6.0 - 8.0	A-5(7)	49	1	2.6	14.4	70.8	12.2	94.4	99	90	-	-
SS-127	35 ft RT	225+00	8.0 - 9.0	A-4(5)	33	4	2.9	16.2	62.7	18.2	95.9	99	90	-	9.9
SS-128	35 ft RT	225+00	9.0 - 10.0	A-4(6)	25	8	0.5	18.8	54.0	26.7	100	100	93	-	-



225+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	446

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

225+50.00

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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	447

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

226+00.00

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	448

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

226+50.00

—L—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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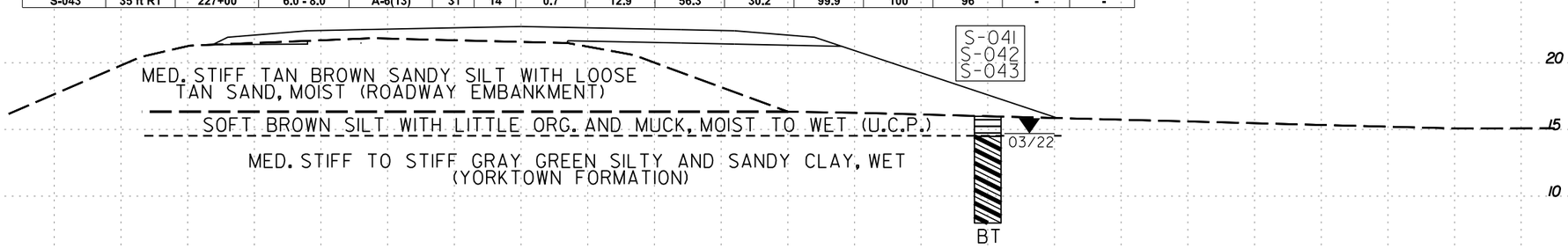
Lee Stone AT LSTONE_CAD_PC

SOIL TEST RESULTS

SAMPLE NUMBER	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		
S-041	35 ft RT	227+00	0.0 - 1.5	A-5(10)	48	6	1.8	15.4	81.2	1.6	98.8	99	91	103	18.6
S-042	35 ft RT	227+00	1.5 - 6.0	A-6(12)	32	14	0.7	17.0	49.9	32.4	100	100	93	32	-
S-043	35 ft RT	227+00	6.0 - 8.0	A-6(13)	31	14	0.7	12.9	56.3	30.2	99.9	100	96	-	-



227+00.00

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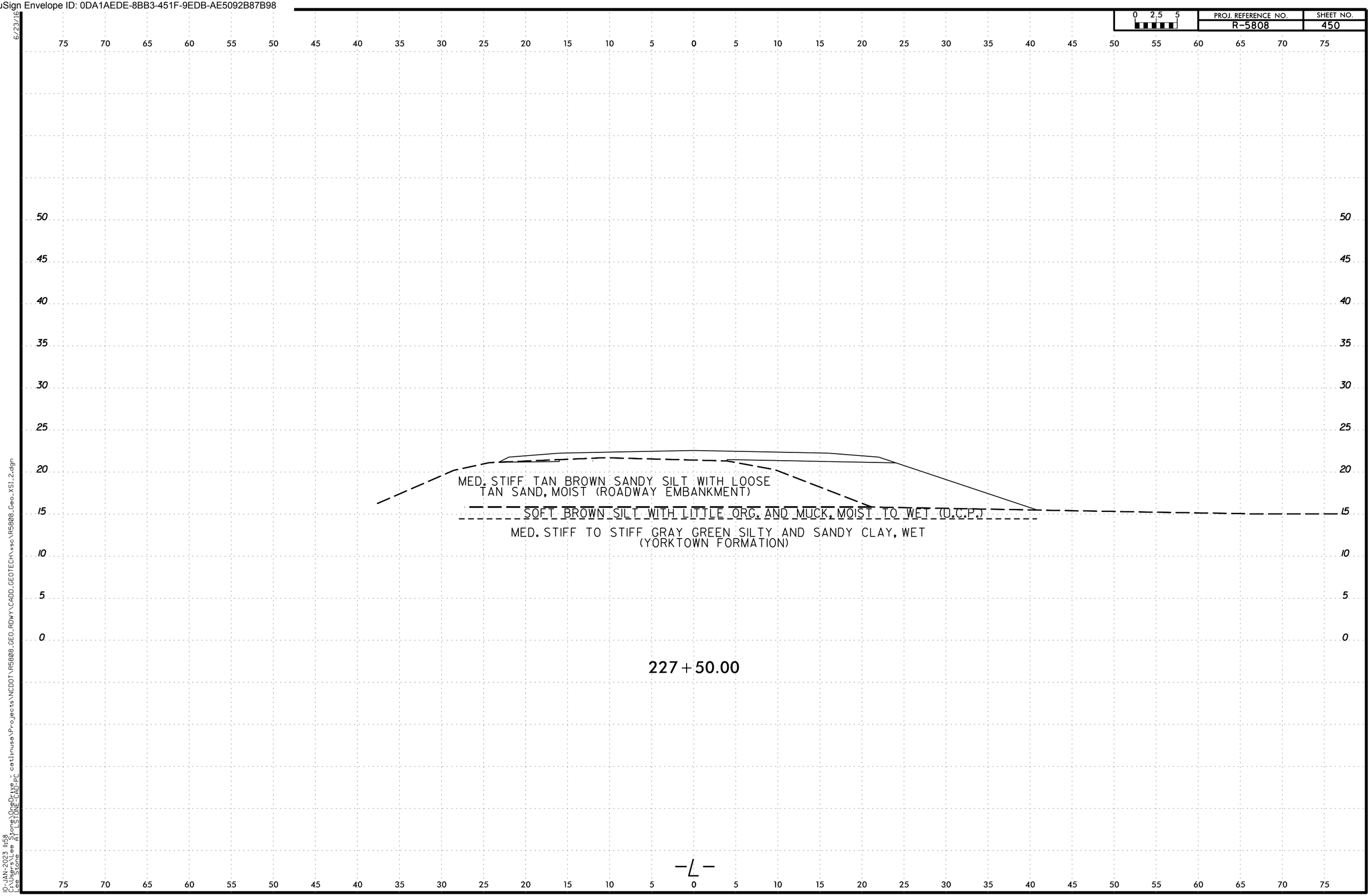

6/23/16

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Lee Stone ATLSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	451

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

228+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

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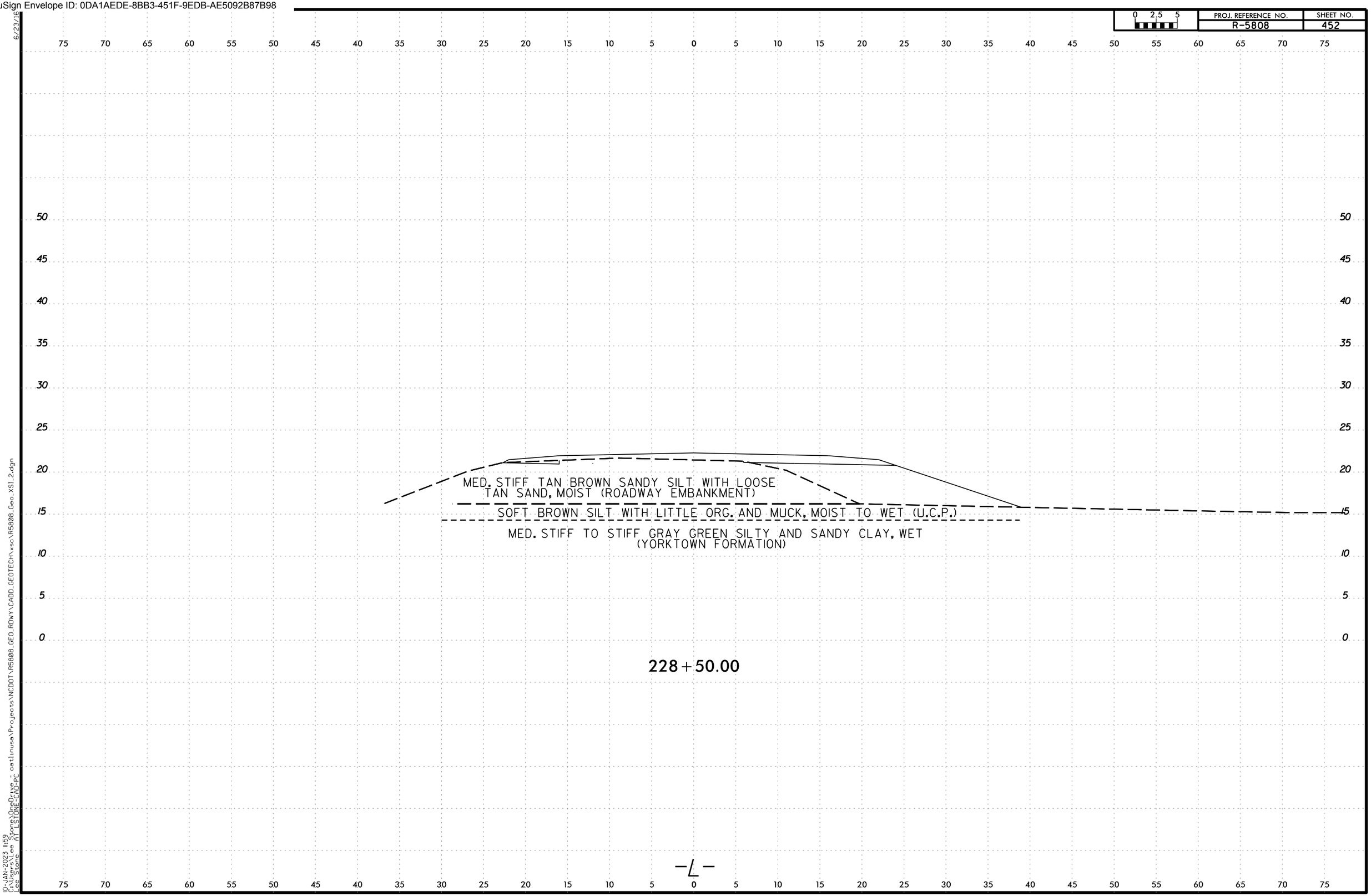

6/23/16

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	453

6/23/16

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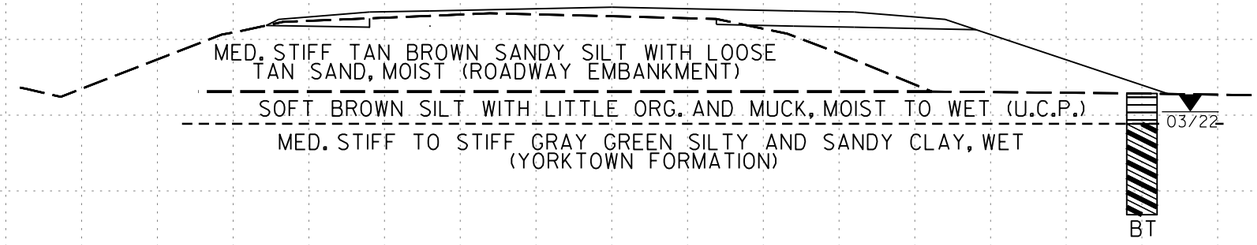

229+00.00

-L-

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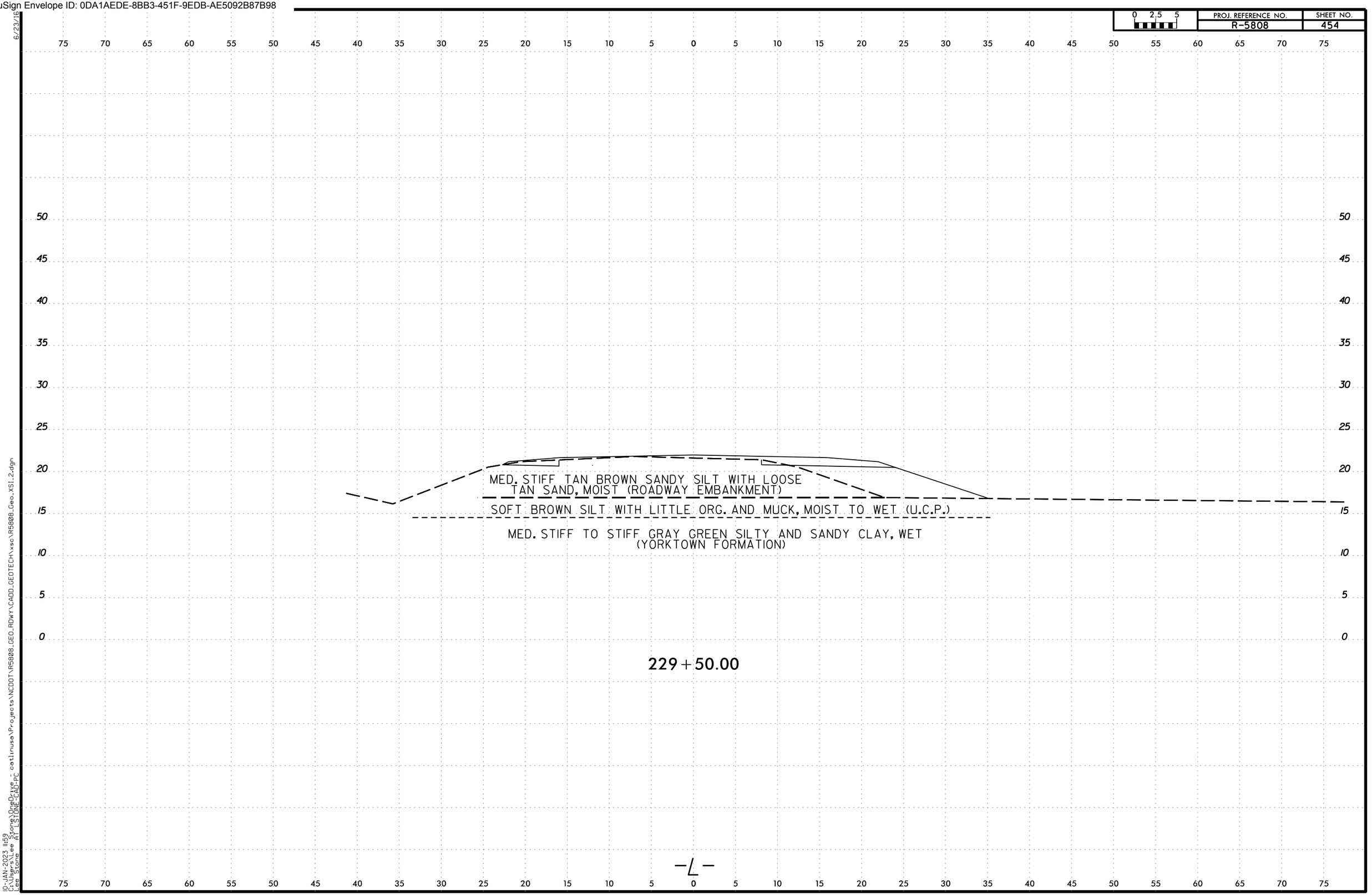

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Lee Stone AT LSTONE-CAD-PC

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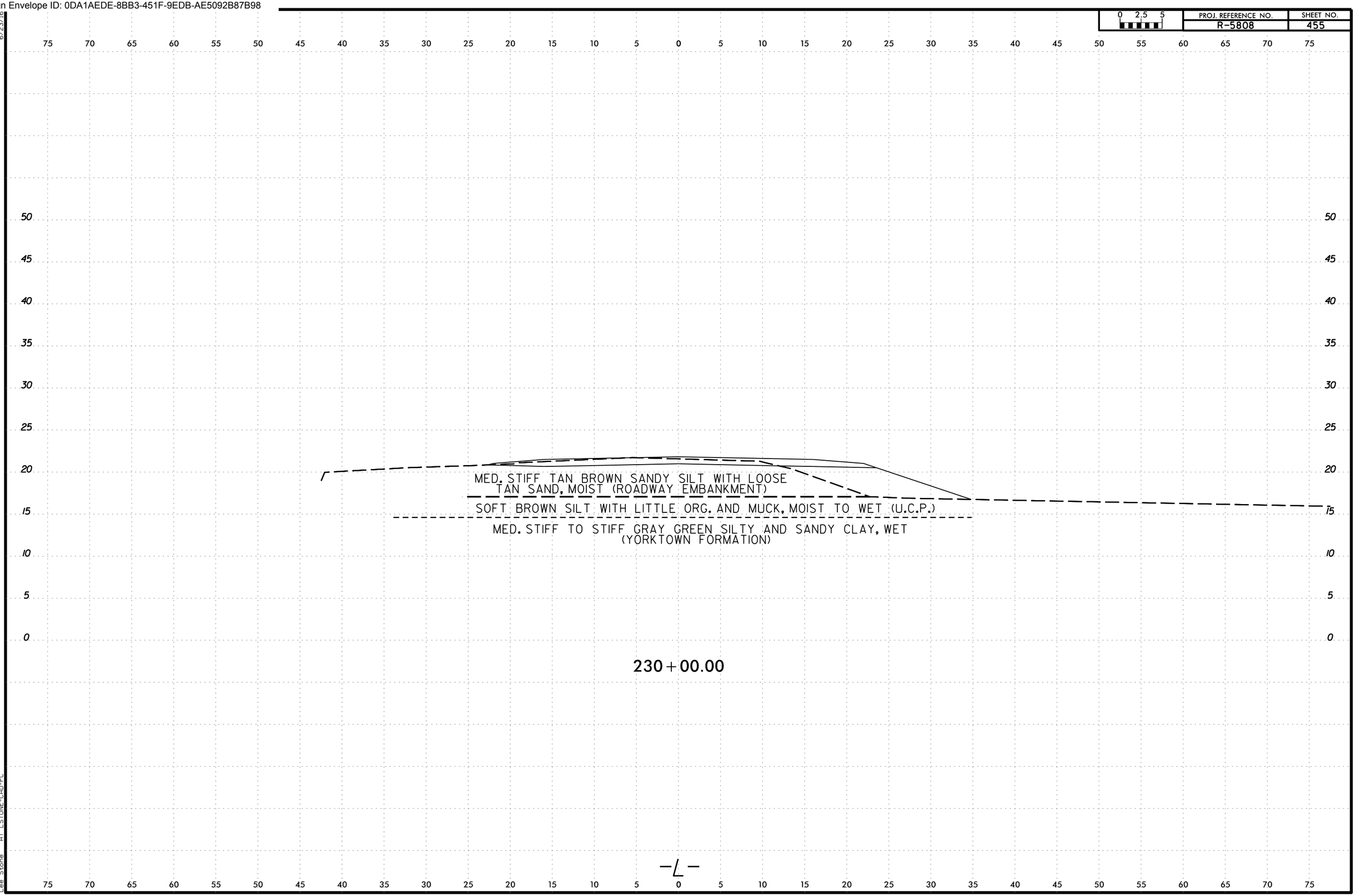

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	R-5808	456

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230+50.00

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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	457

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

03/22

BT

231+00.00

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Lee Stone AT LSTONE-CAD-PC

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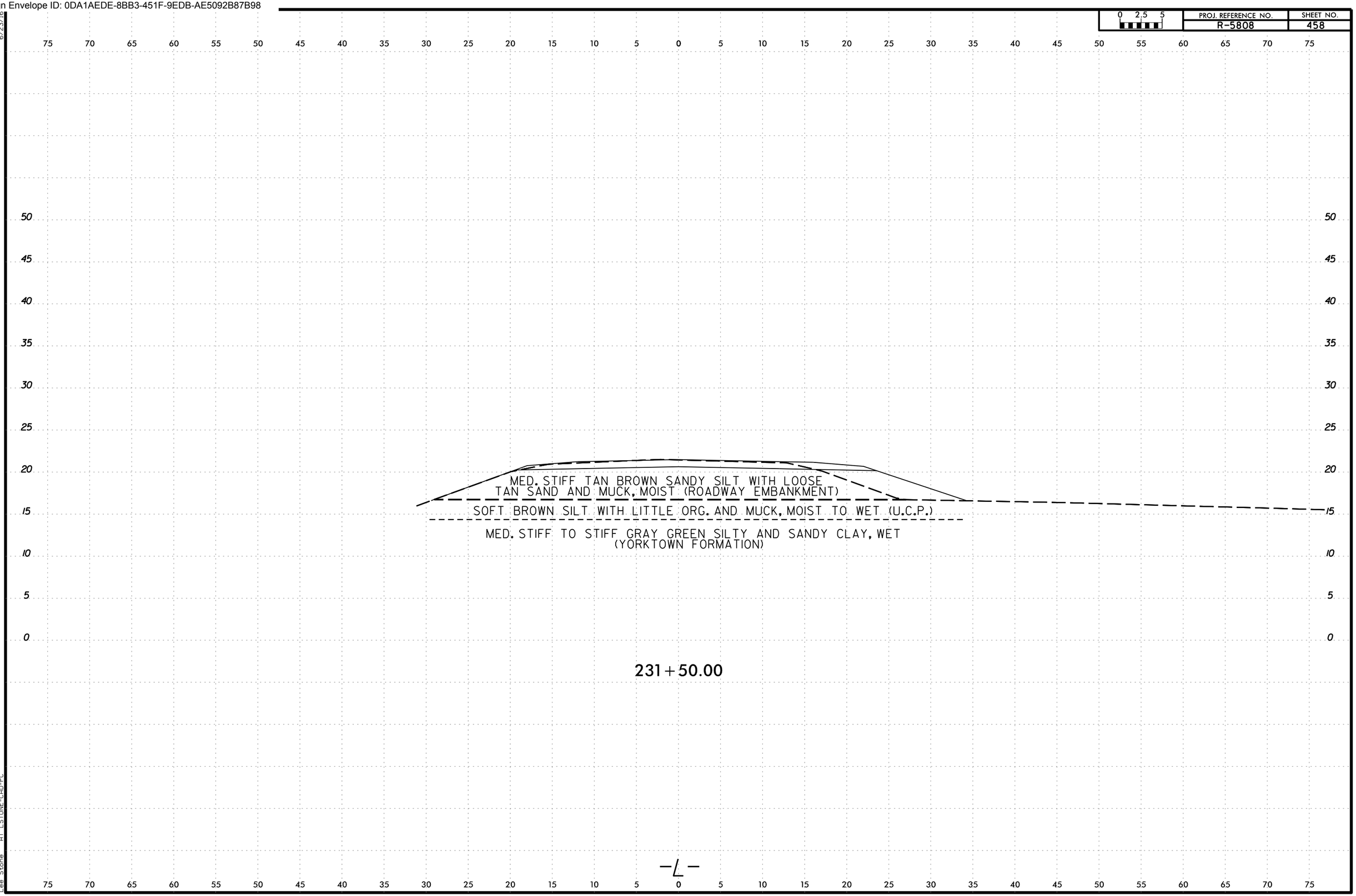
	R-5808	458



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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	459

6/23/16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

50 45 40 35 30 25 20 15 10 5 0

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

232+00.00

-L-

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Lee Stone AT LSTONE-CAD-PC

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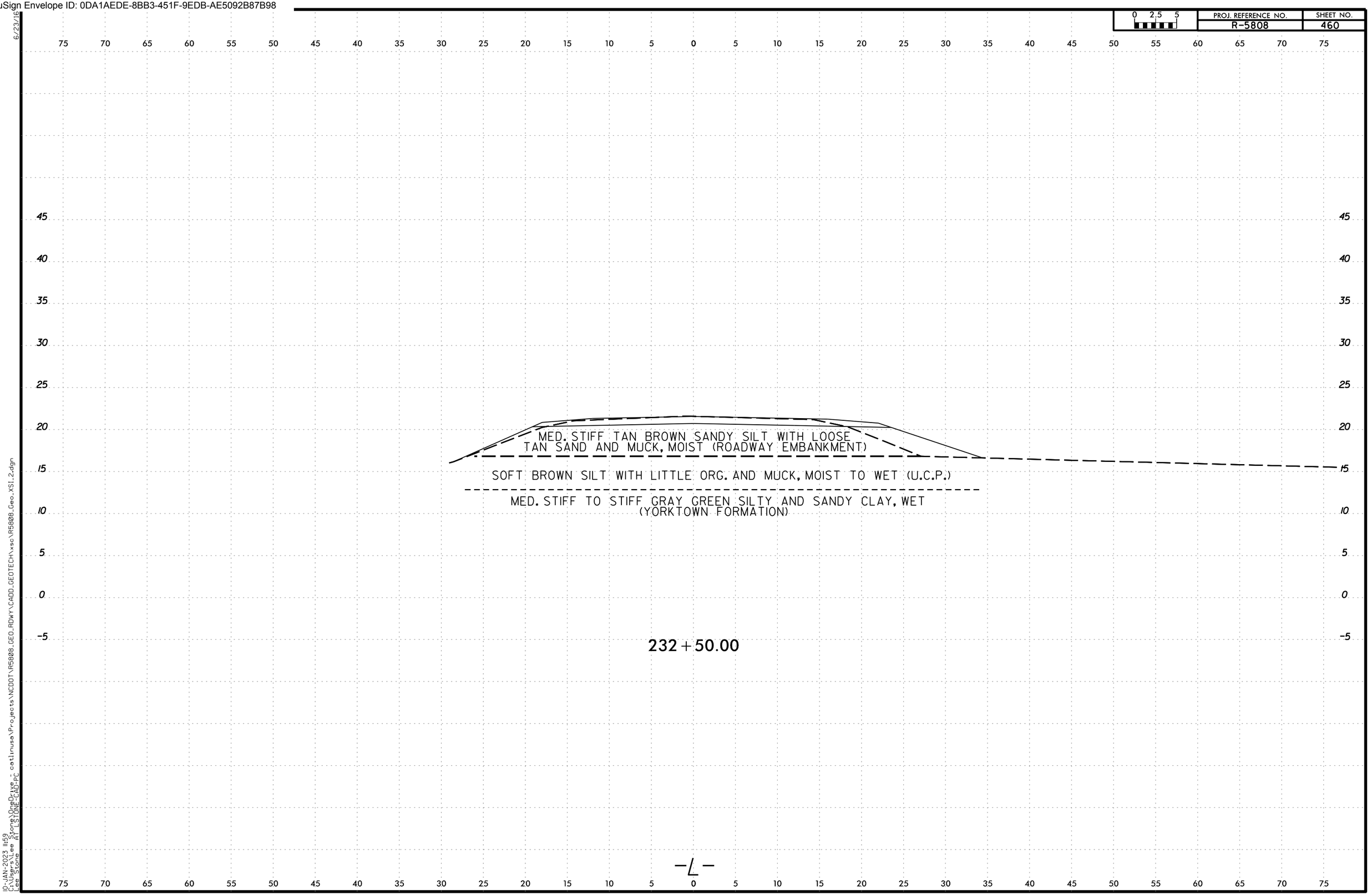

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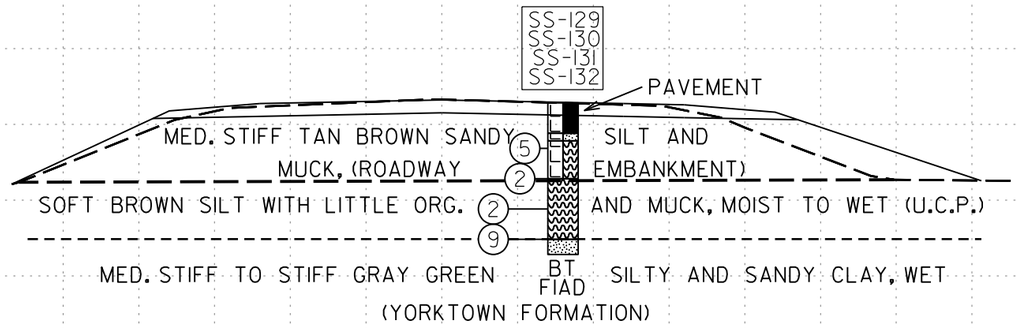
Lee Stone AT LSTONE-CAD-PC

SOIL TEST RESULTS

SAMPLE NUMBER	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-129	35 ft RT	233+00	2.5 - 4.0	A-4(1)	23	3	1.4	16.4	62.7	19.5	100	100	89	-	-
SS-130	35 ft RT	233+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.5
SS-131	35 ft RT	233+00	6.0 - 8.0	A-4(1)	27	2	1.9	20.7	61.0	16.4	99.1	99	88	-	-
SS-132	35 ft RT	233+00	9.0 - 10.0	A-4(1)	21	4	0.2	20.0	59.3	20.5	99.9	100	91	-	-



233+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	462

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45 40 35 30 25 20 15 10 5 0 -5

MED. STIFF TAN BROWN SANDY SILT WITH LOOSE TAN SAND AND MUCK, MOIST (ROADWAY EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG. AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN SILTY AND SANDY CLAY, WET (YORKTOWN FORMATION)

233+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	463