

REFERENCE: R-5808

PROJECT: 46972

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

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LINE	STATION	PLAN	PROFILE
-L-	17+59 to 234+37	4-22	23-30

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



DocuSigned by:
Joseph L. Stone 2/15/2023
10FDBDD34BEF4C4...
SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION										GRADATION										ROCK DESCRIPTION										TERMS AND DEFINITIONS									
SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 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, <i>VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6</i>										WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.										HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED, AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK. ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:										ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA. ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC. ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE. CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES. FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLOGGED FROM PARENT MATERIAL. FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD. JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT. LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS. MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM. RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (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 (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATERIAL.									
SOIL LEGEND AND AASHTO CLASSIFICATION										MINERALOGICAL COMPOSITION										WEATHERING																			
GENERAL CLASS. SILT-CLAY MATERIALS (< 35% PASSING #200) ORGANIC MATERIALS										MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.										FRESH ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.																			
GROUP CLASS. 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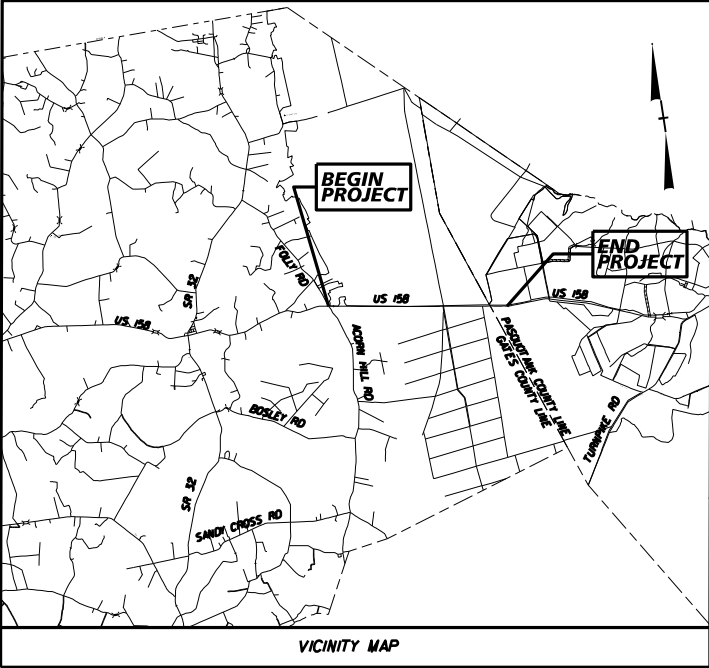
09/08/2022

\$DATE\$

R-5808

TIP PROJECT:

CONTRACT:



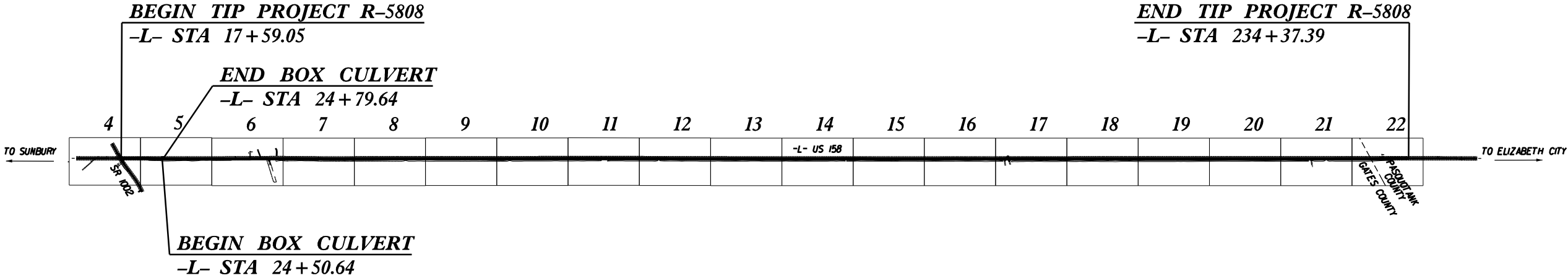
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GATES COUNTY

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

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



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

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

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

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.

WBS Number:
TIP Number:
F.A .Project
County:
Description:

46972.1.1
R-5808
NHP-0158(076)
Gates
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

\$DATE\$

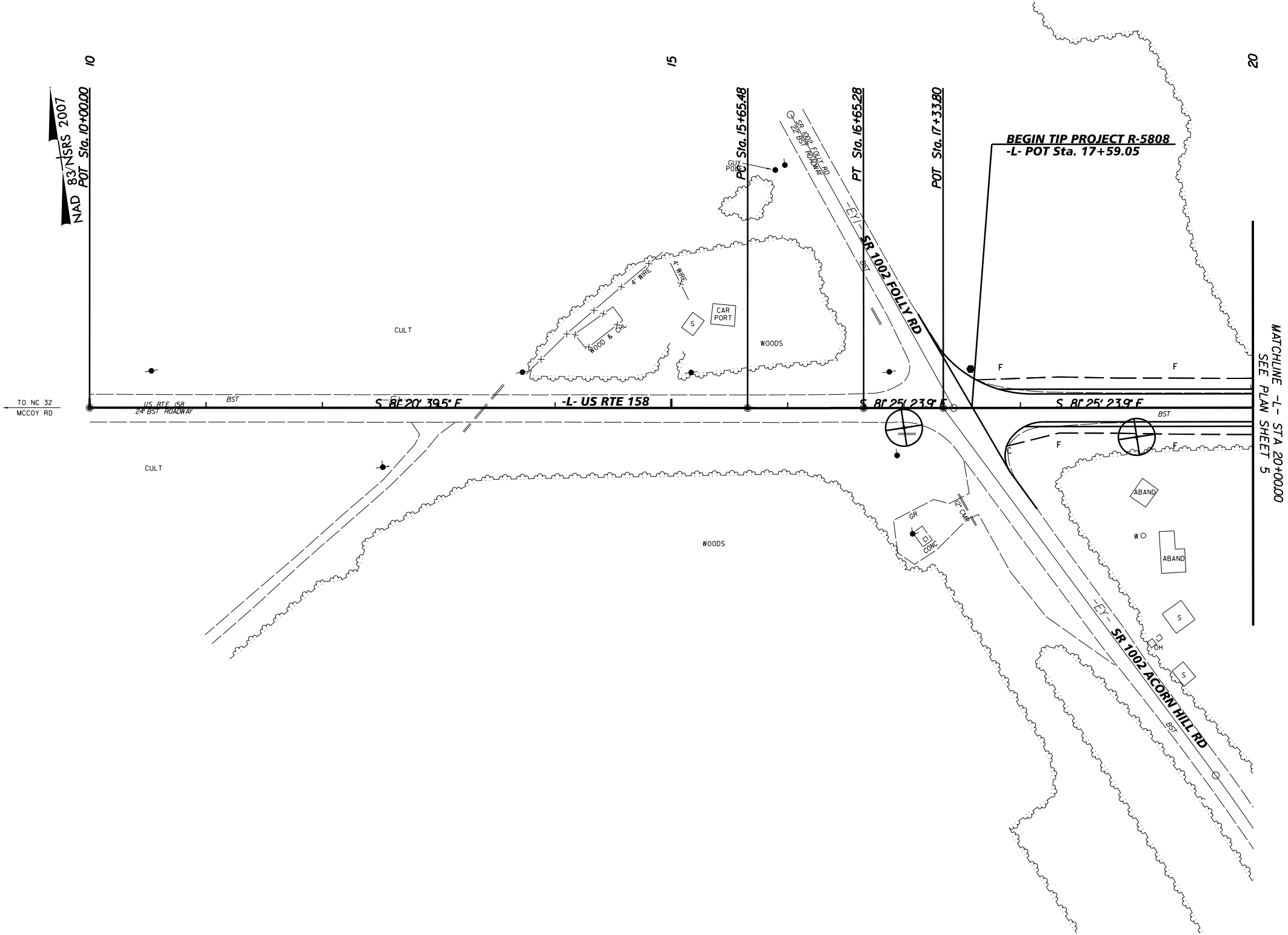
-L-

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

Kimley»Horn
4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

CATLIN
Engineers and Scientists
Washington, North Carolina

PROJECT REFERENCE NO.		SHEET NO.
R-5808		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

-L-

PI Sta 21+61.22

$\Delta = 1^{\circ}34'37.8"$ (RT)

$D = 0^{\circ}29'53.6"$

$L = 316.56'$

$T = 158.29'$

$R = 11,500.00'$

PI Sta 24+74.63

$\Delta = 1^{\circ}32'44.9"$ (LT)

$D = 0^{\circ}29'53.6"$

$L = 310.26'$

$T = 155.14'$

$R = 11,500.00'$

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PROJECT REFERENCE NO.
R-5808

SHEET NO.
5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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REVISIONS

\$DATE\$

INCOMPLETE PLANS
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SEE SHEET NO. 23 FOR -L- PROFILE



5/14/99

REVISIONS

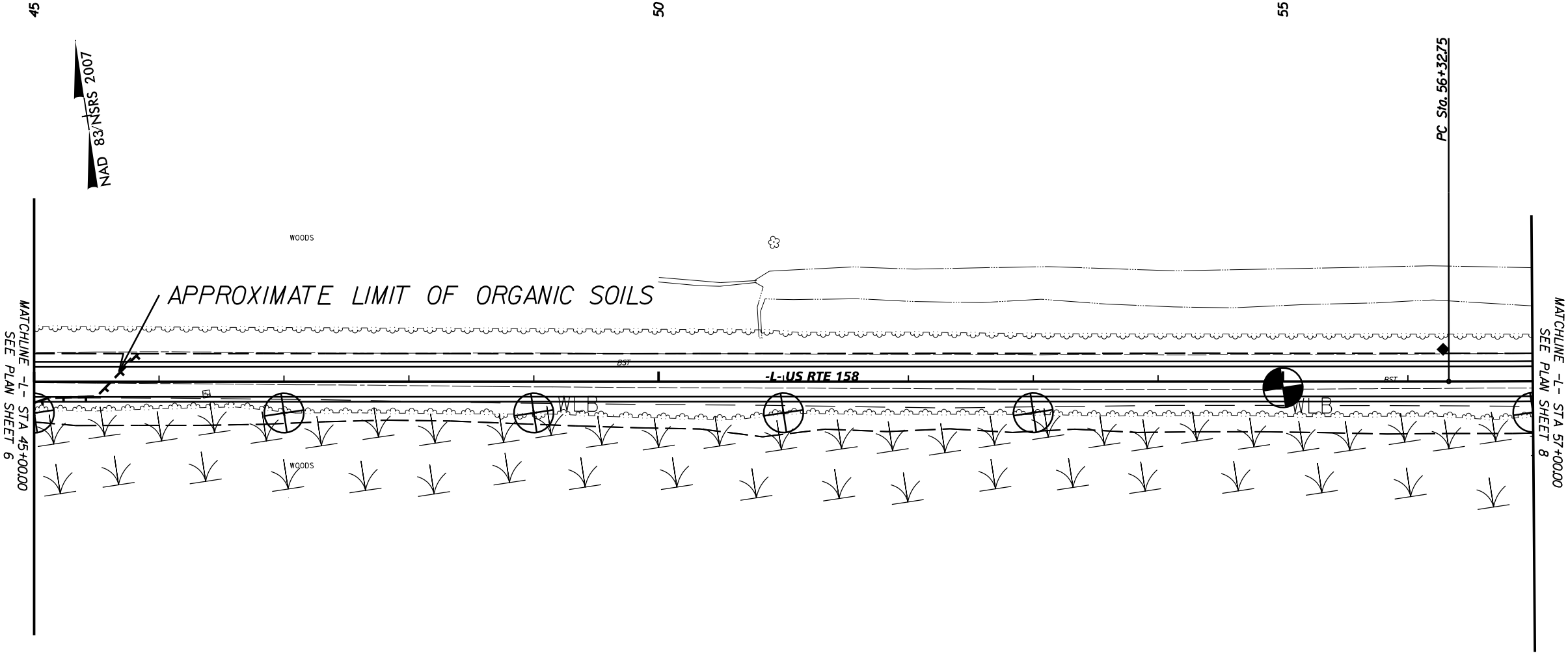
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-L-
PI Sta 56+83.31
Δ = 0° 25' 44.9" (LT)
D = 0° 25' 27.9"
L = 10111'
T = 50.56'
R = 13,500.00'

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Washington, North Carolina

PROJECT REFERENCE NO. R-5808		SHEET NO. 7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

\$DATE\$

-L-

PI Sta 56+83.31

$\Delta = 0^{\circ}25'44.9"$ (LT)

$D = 0^{\circ}25'27.9"$

$L = 101.1'$

$T = 50.56'$

$R = 13,500.00'$

PI Sta 59+83.31

$\Delta = 0^{\circ}26'17.4"$ (RT)

$D = 0^{\circ}25'27.9"$

$L = 103.24'$

$T = 51.62'$

$R = 13,500.00'$

The plan view shows a section of US RTE 158, labeled '-L- US RTE 158'. The road is oriented horizontally. Key features include:

- Stationing:** The road is marked with stationing from STA 57+00.00 to STA 69+00.00. Key points are labeled: PT Sta. 57+33.86, PC Sta. 59+31.69, and PT Sta. 60+34.93.
- Bearings and Distances:** A bearing of $S\ 81^{\circ}49'16.0" E$ is shown for a segment. A distance of 4.5" is indicated on the right side.
- Curves:** Three circular curves are shown, each with its own set of data:
 - Curve 1 (Left): PI Sta 56+83.31, $\Delta = 0^{\circ}25'44.9"$ (LT), $D = 0^{\circ}25'27.9"$, $L = 101.1'$, $T = 50.56'$, $R = 13,500.00'$.
 - Curve 2 (Middle): PI Sta 59+83.31, $\Delta = 0^{\circ}26'17.4"$ (RT), $D = 0^{\circ}25'27.9"$, $L = 103.24'$, $T = 51.62'$, $R = 13,500.00'$.
 - Curve 3 (Right): PI Sta 60+34.93, $\Delta = 0^{\circ}26'17.4"$ (RT), $D = 0^{\circ}25'27.9"$, $L = 103.24'$, $T = 51.62'$, $R = 13,500.00'$.
- Matchlines:** The left matchline is labeled 'MATCHLINE -L- STA 57+00.00 SEE PLAN SHEET 7'. The right matchline is labeled 'MATCHLINE -L- STA 69+00.00 SEE PLAN SHEET 9'.
- Other Labels:** 'NAD 83 NSRS 2007' is indicated near the top left. 'WLB' is marked at several points along the road.

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VIRGINIA BEACH, VA 23462

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Washington, North Carolina

PROJECT REFERENCE NO.
R-5808

SHEET NO.
8

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEE SHEET NO. 24 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

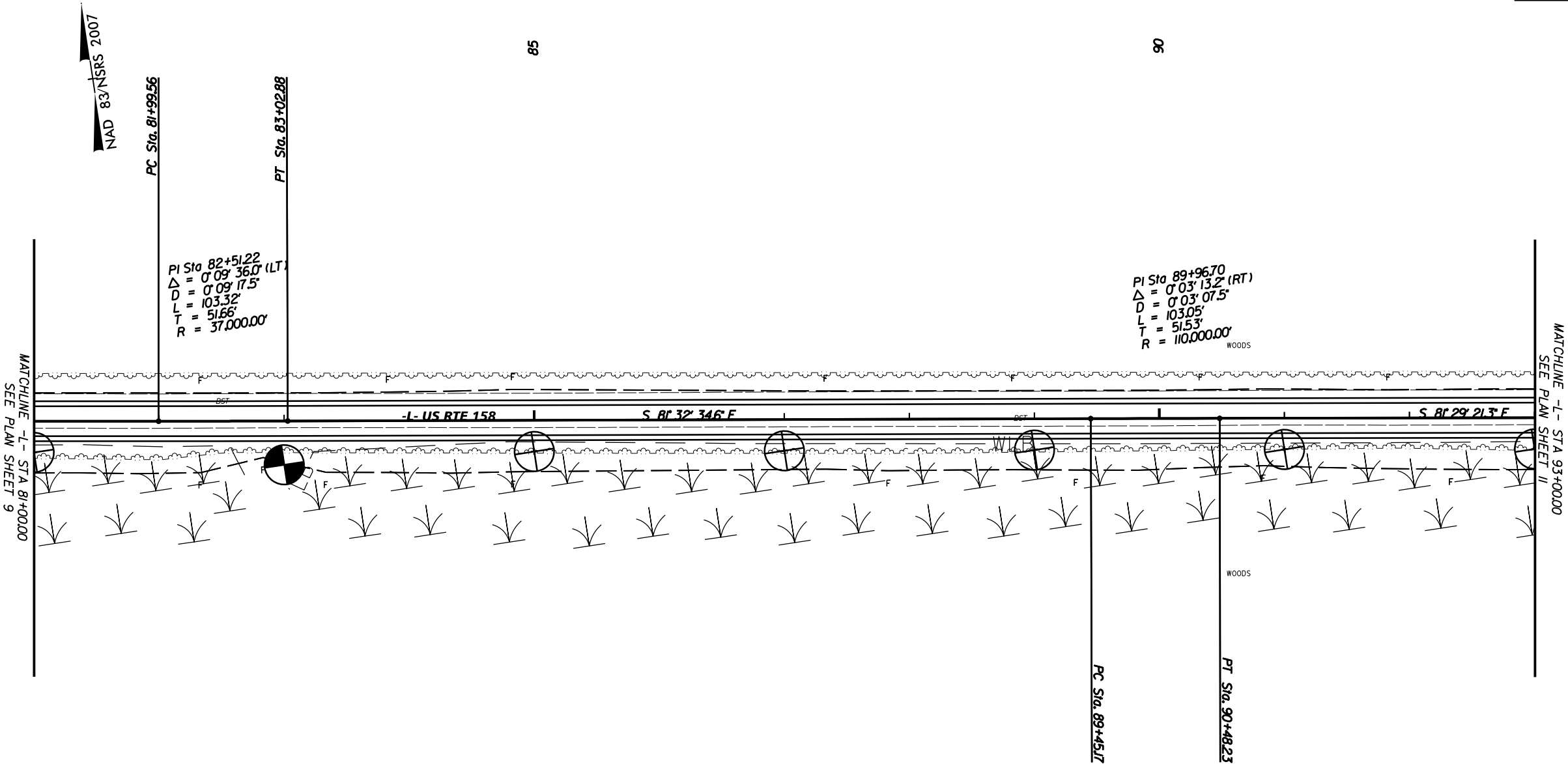
5/14/99

REVISIONS

\$DATE\$

-L-

<i>PI Sta 82+51.22</i>	<i>PI Sta 89+96.70</i>
$\Delta = 0^{\circ}09'36.0"$ (LT)	$\Delta = 0^{\circ}03'13.2"$ (RT)
$D = 0^{\circ}09'17.5"$	$D = 0^{\circ}03'07.5"$
$L = 103.32'$	$L = 103.05'$
$T = 51.66'$	$T = 51.53'$
$R = 37,000.00'$	$R = 110,000.00'$



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PROJECT REFERENCE NO.		SHEET NO.
<i>R-5808</i>		<i>10</i>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

5/14/99

REVISIONS

\$DATE\$

-L-

PI Sta 94+91.90

$\Delta = 0^{\circ} 07' 12.6" (RT)$

$D = 0^{\circ} 06' 52.5"$

$L = 104.87'$

$T = 52.44'$

$R = 50,000.00'$

PI Sta 103+03.52

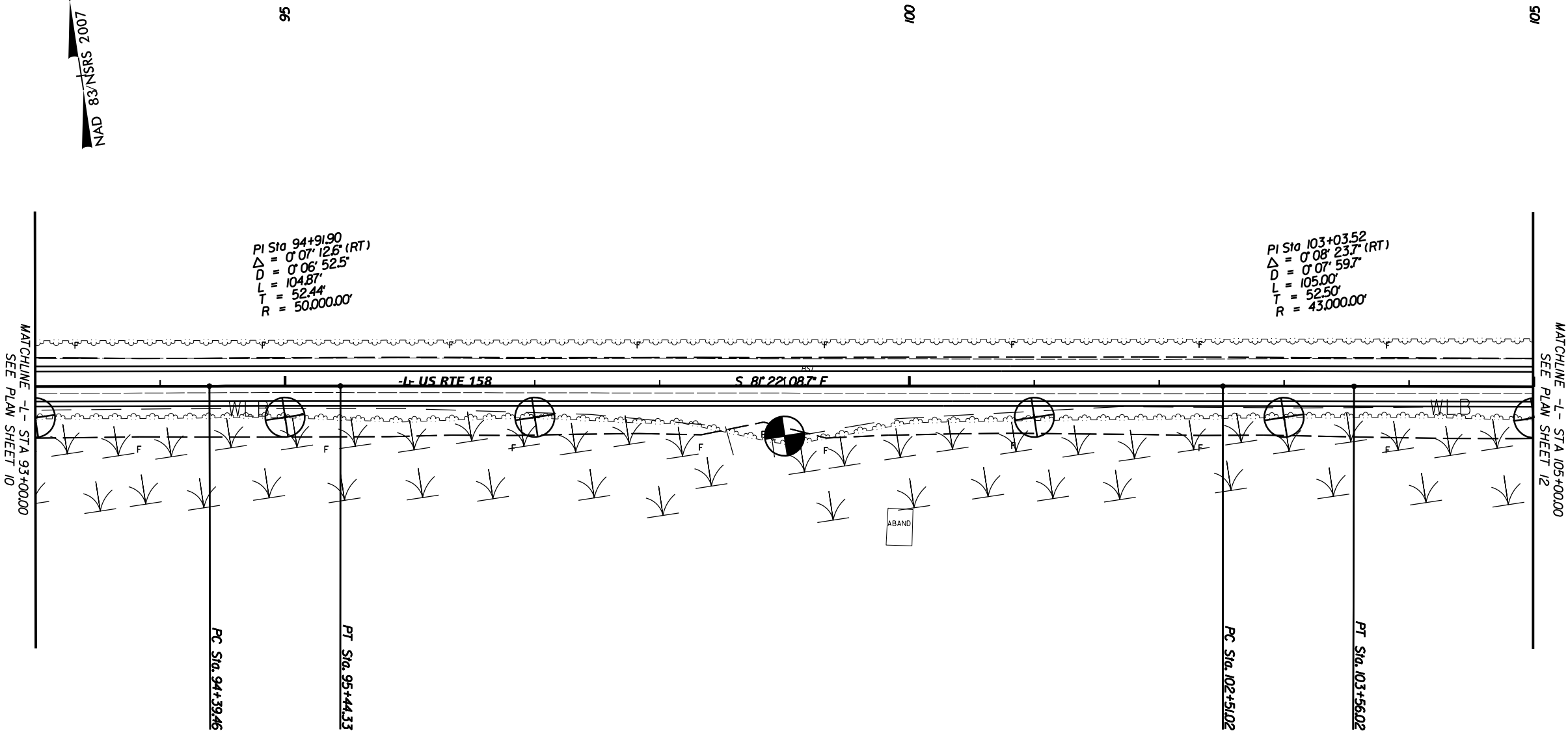
$\Delta = 0^{\circ} 08' 23.7" (RT)$

$D = 0^{\circ} 07' 59.7"$

$L = 105.00'$

$T = 52.50'$

$R = 43,000.00'$



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VIRGINIA BEACH, VA 23462

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Washington, North Carolina

PROJECT REFERENCE NO.

R-5808

SHEET NO.

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
DO NOT USE FOR R/W ACQUISITION

5/14/99

REVISIONS

\$DATE\$

-L-

PI Sta 114+83.26
Δ = 0° 02' 45.5" (LT)
D = 0° 02' 45.0"
L = 100.27'
T = 5013'
R = 125,000.00'

105
NAD 83/NSRS 2007

110

115

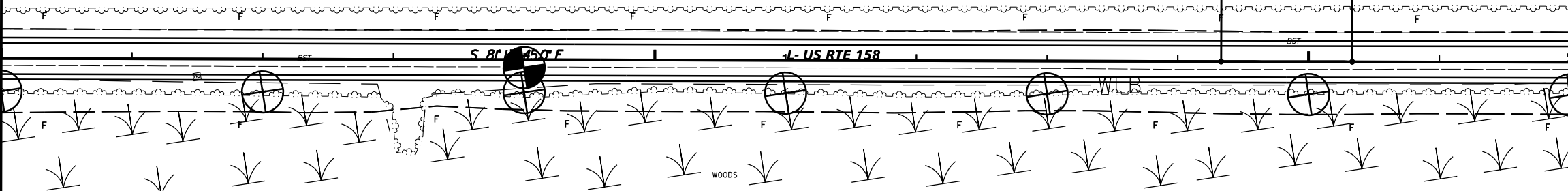
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L = 100.27'
T = 5013'
R = 125,000.00'

PC Sta. 114+33.12

PT Sta. 115+33.39

MATCHLINE -L- STA 105+00.00
SEE PLAN SHEET 11

MATCHLINE -L- STA 117+00.00
SEE PLAN SHEET 13



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4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

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Washington, North Carolina

PROJECT REFERENCE NO.

R-5808

SHEET NO.

12

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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SEE SHEET NO. 26 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

5/14/99

-L-

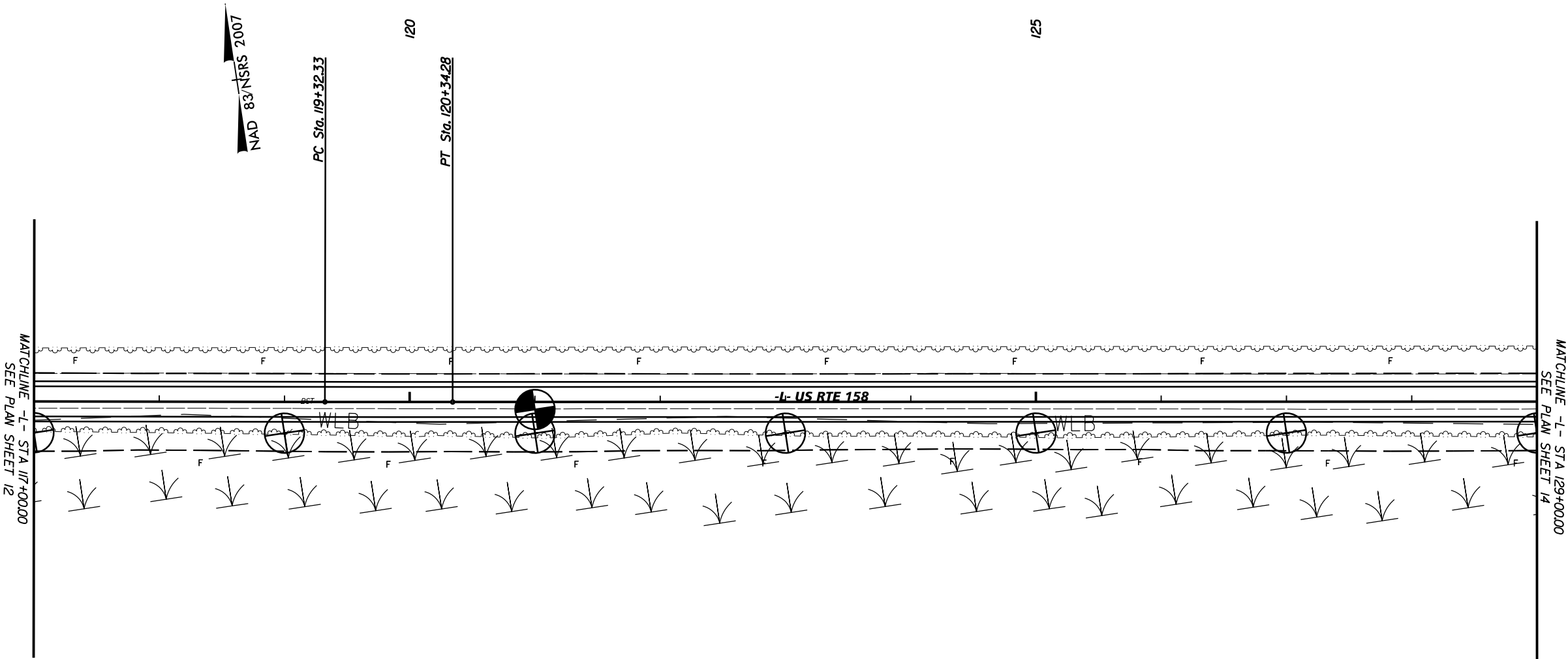
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T = 50.97'
R = 50,000.00'

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PROJECT REFERENCE NO. <i>R-5808</i>		SHEET NO. <i>13</i>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
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REVISIONS



\$DATE\$

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

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

 4525 MAIN STREET, SUITE 1000 VIRGINIA BEACH, VA 23462	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROJECT REFERENCE NO.</td> <td style="width: 50%; text-align: center;">SHEET NO.</td> </tr> <tr> <td style="text-align: center;"><i>R-5808</i></td> <td style="text-align: center;"><i>14</i></td> </tr> <tr> <td colspan="2" style="text-align: center;">R/W SHEET NO.</td> </tr> <tr> <td style="width: 50%; text-align: center; vertical-align: top; padding: 10px;">ROADWAY DESIGN ENGINEER</td> <td style="width: 50%; text-align: center; vertical-align: top; padding: 10px;">HYDRAULICS ENGINEER</td> </tr> </table>	PROJECT REFERENCE NO.	SHEET NO.	<i>R-5808</i>	<i>14</i>	R/W SHEET NO.		ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PROJECT REFERENCE NO.	SHEET NO.								
<i>R-5808</i>	<i>14</i>								
R/W SHEET NO.									
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER								

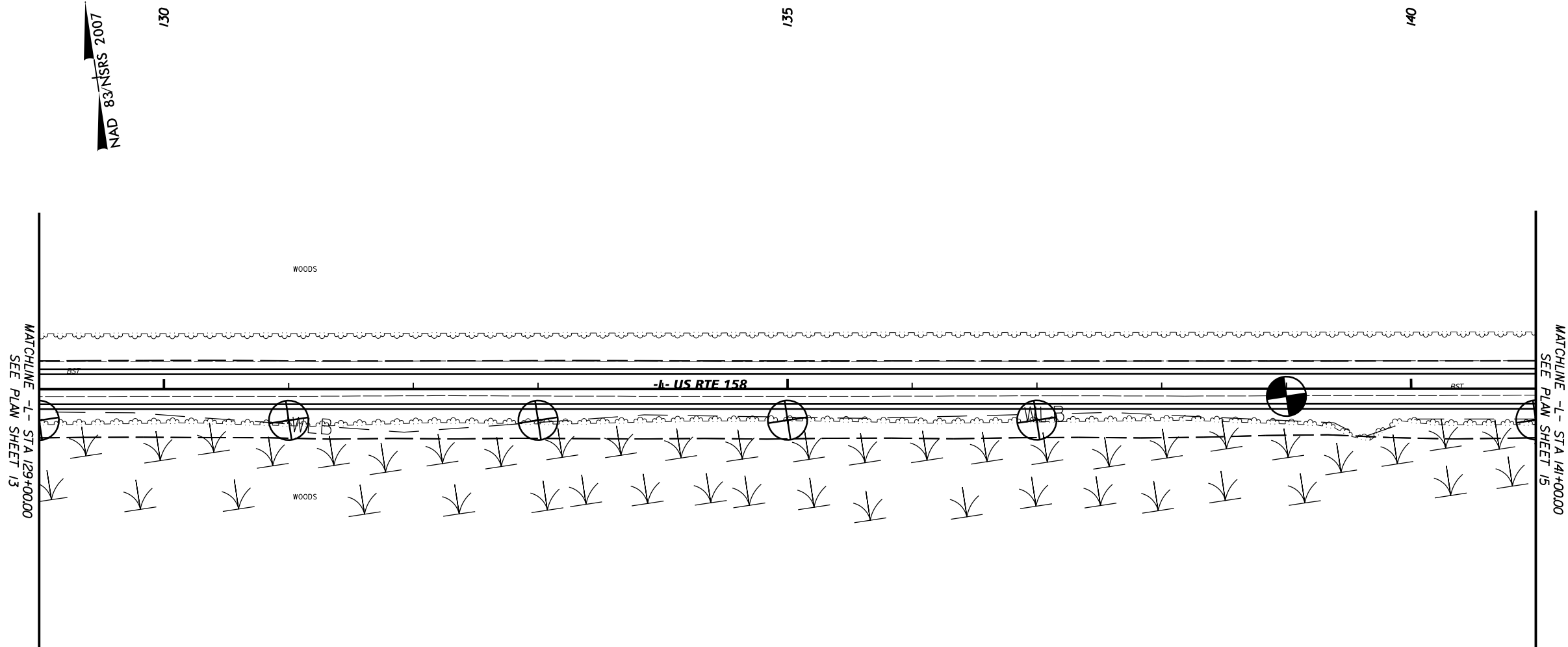


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INCOMPLETE PLANS
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REVISIONS

\$DATE\$

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

NAD 83/NSRS 2007

145

150

WOODS

-L- US RTE 158

WLB

WOODS

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

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VIRGINIA BEACH, VA 23462

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PROJECT REFERENCE NO.		SHEET NO.
R-5808		15
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

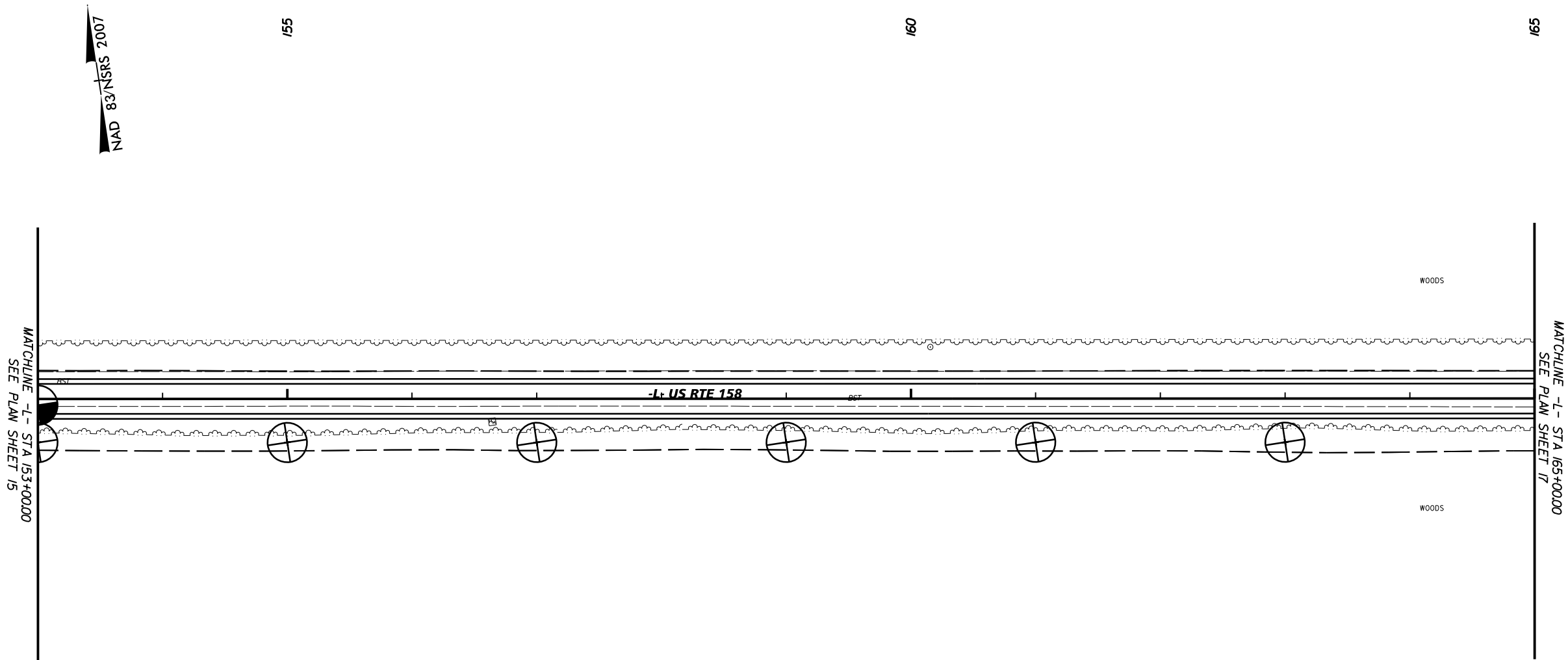
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DO NOT USE FOR R/W ACQUISITION

\$DATE\$



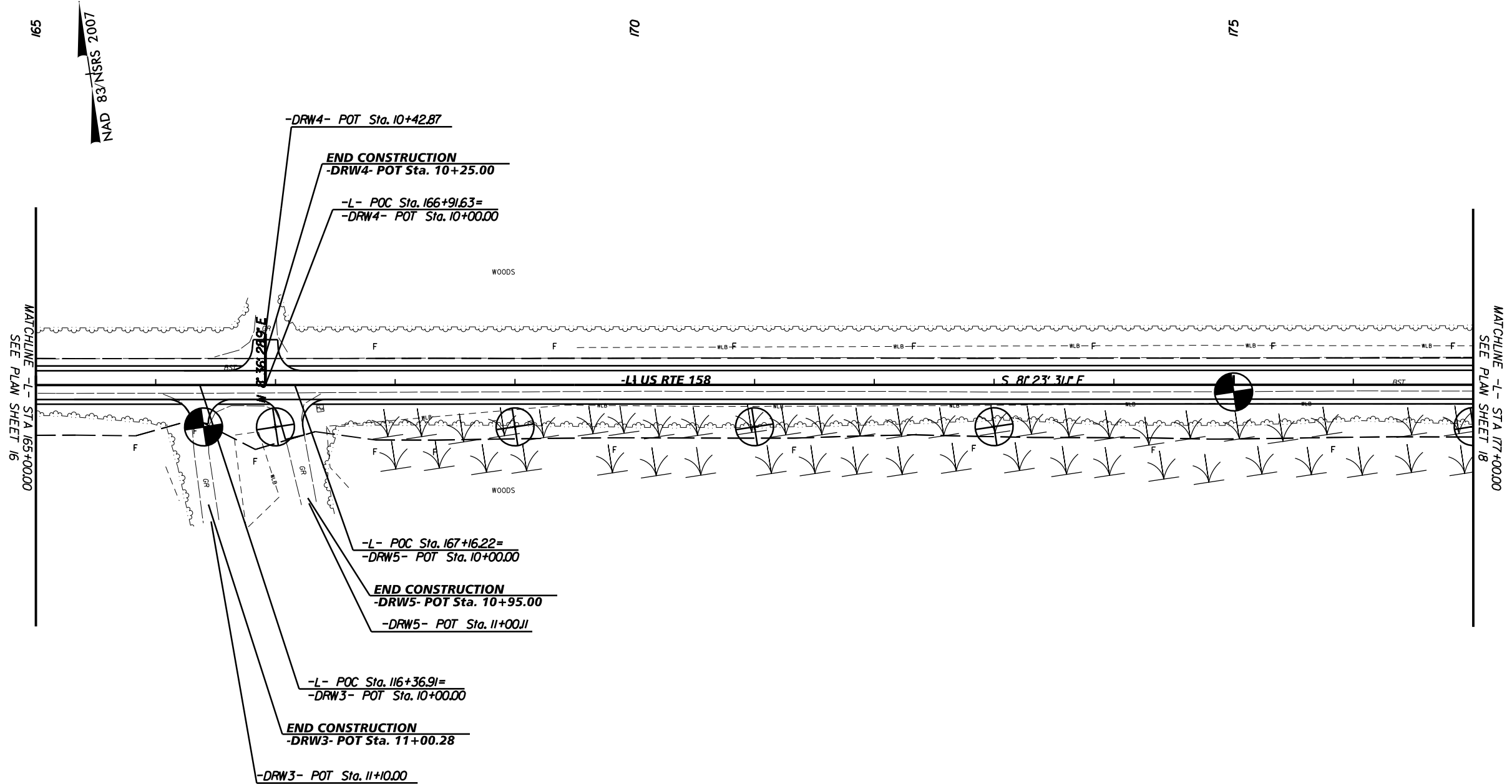
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R-5808		16	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



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

INCOMPLETE PLANS
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PROJECT REFERENCE NO.	SHEET NO.
R-5808	17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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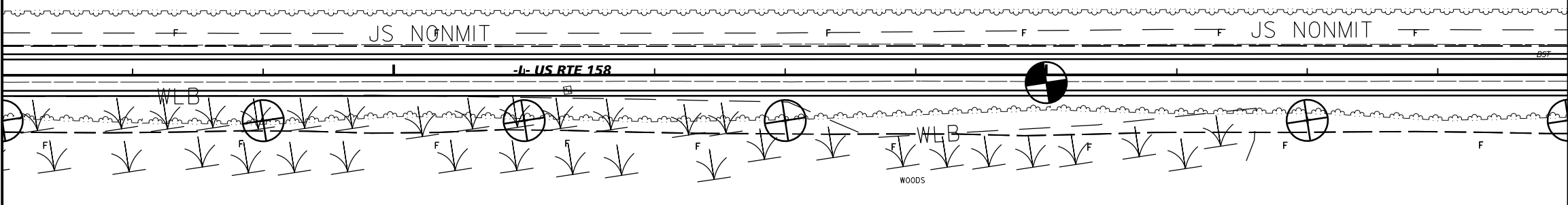
INCOMPLETE PLANS
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5/14/99

REVISIONS

\$DATE\$

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



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

NAD 83/NSRS 2007

180

185

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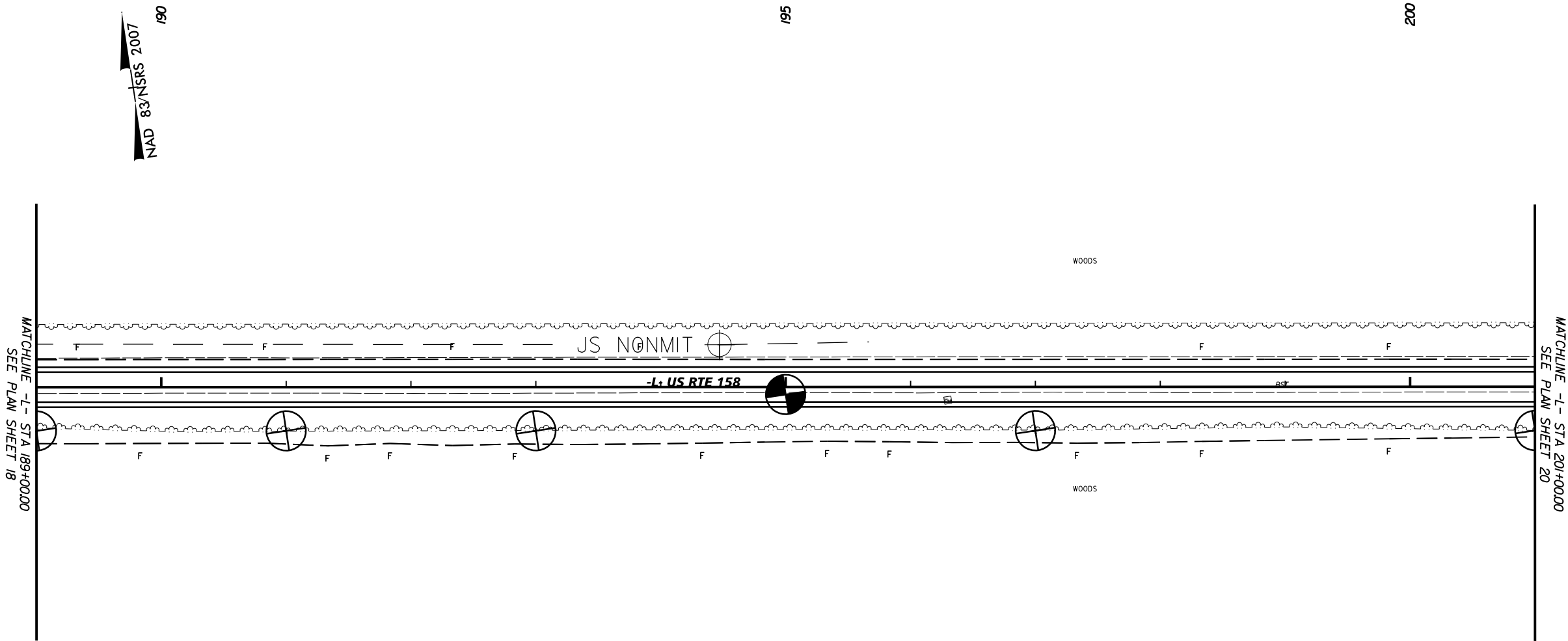
CATLIN
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PROJECT REFERENCE NO. <i>R-5808</i>		SHEET NO. <i>18</i>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

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

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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

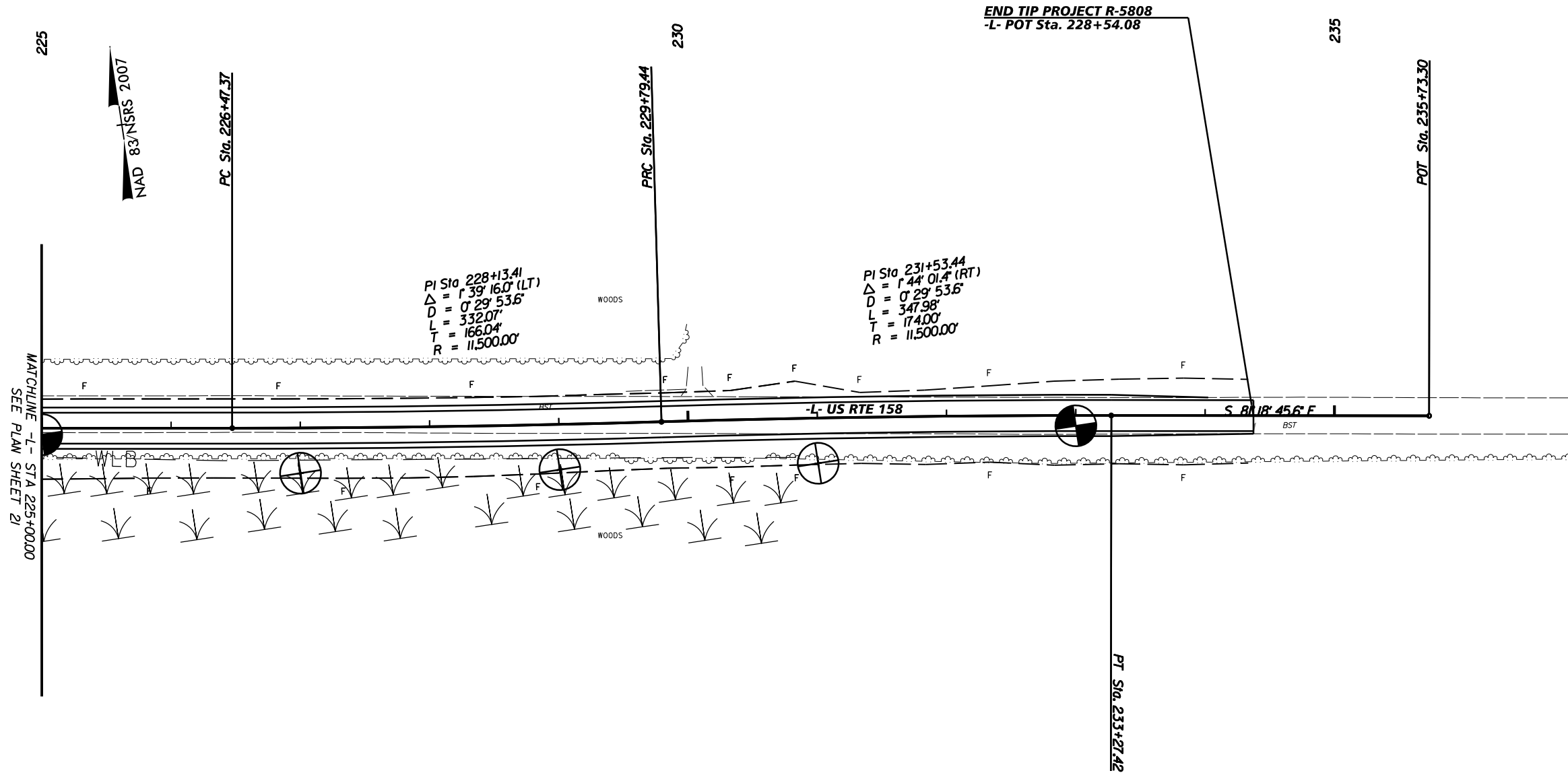
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DO NOT USE FOR R/W ACQUISITION

SEE SHEET NO. 30 FOR -L- PROFILE

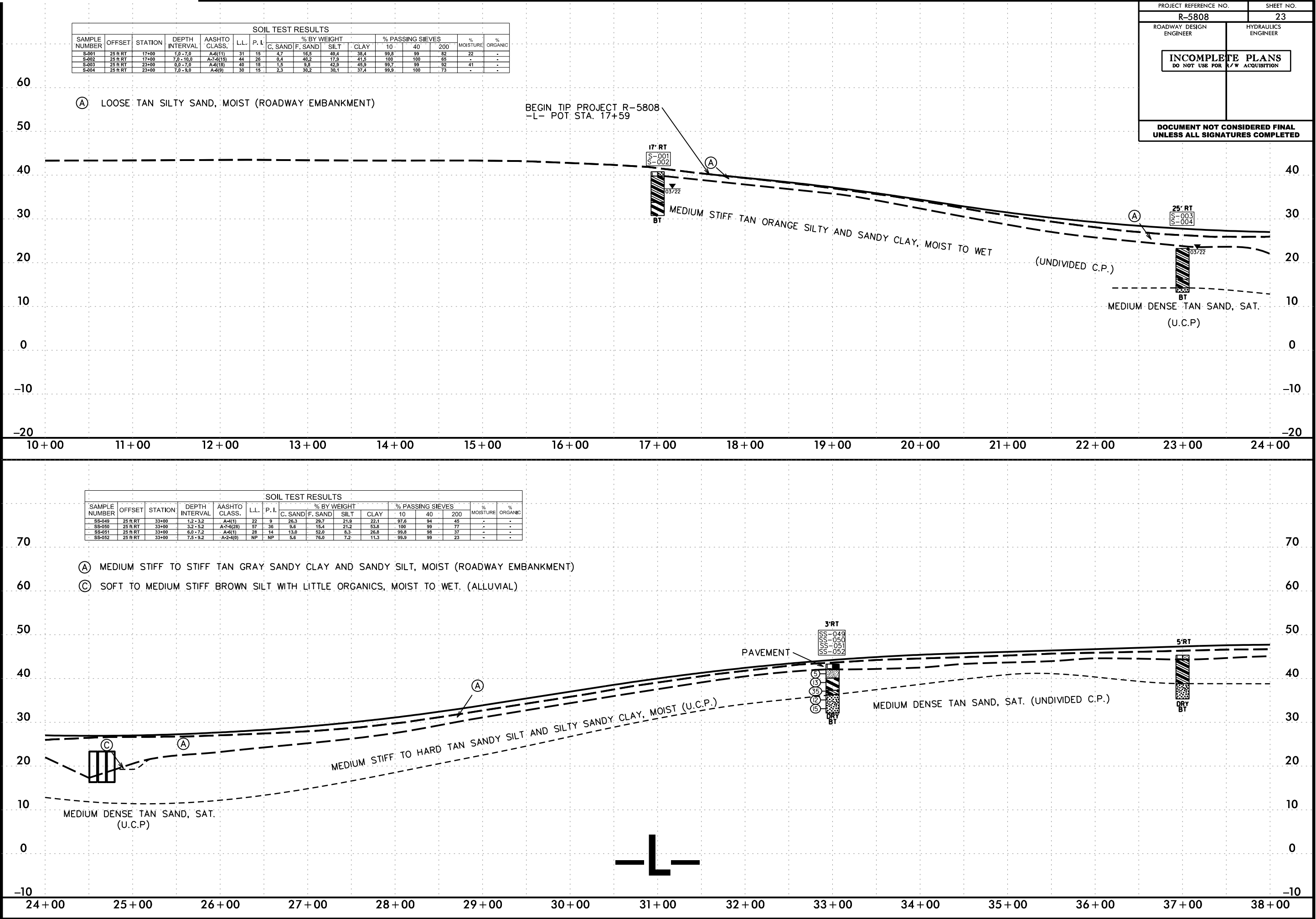
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

SEE SHEET NO. 30 FOR -L- PROFILE

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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Lee.Stone - All STAFF - L&P



5/28/2022

PROJECT REFERENCE NO.
R-5808

SHEET NO.
24

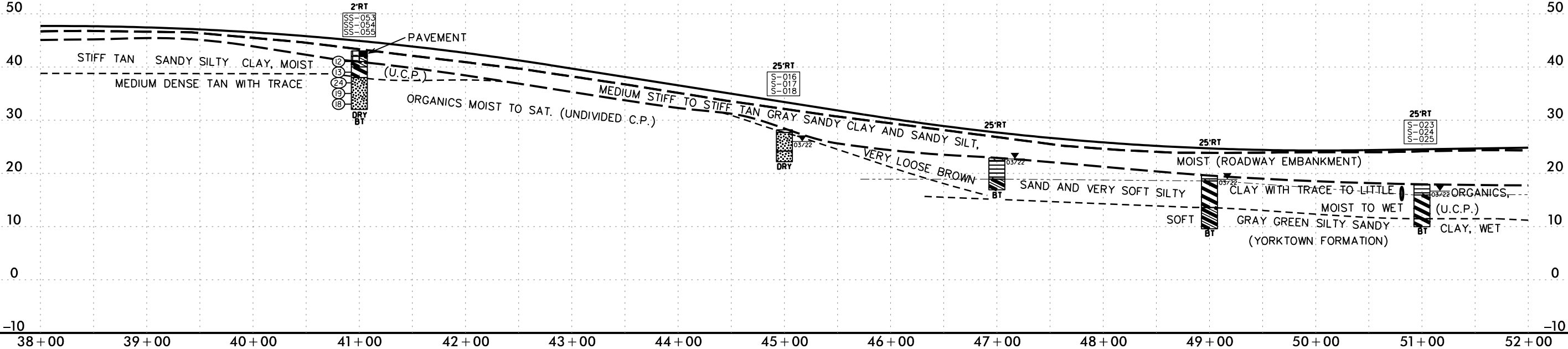
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

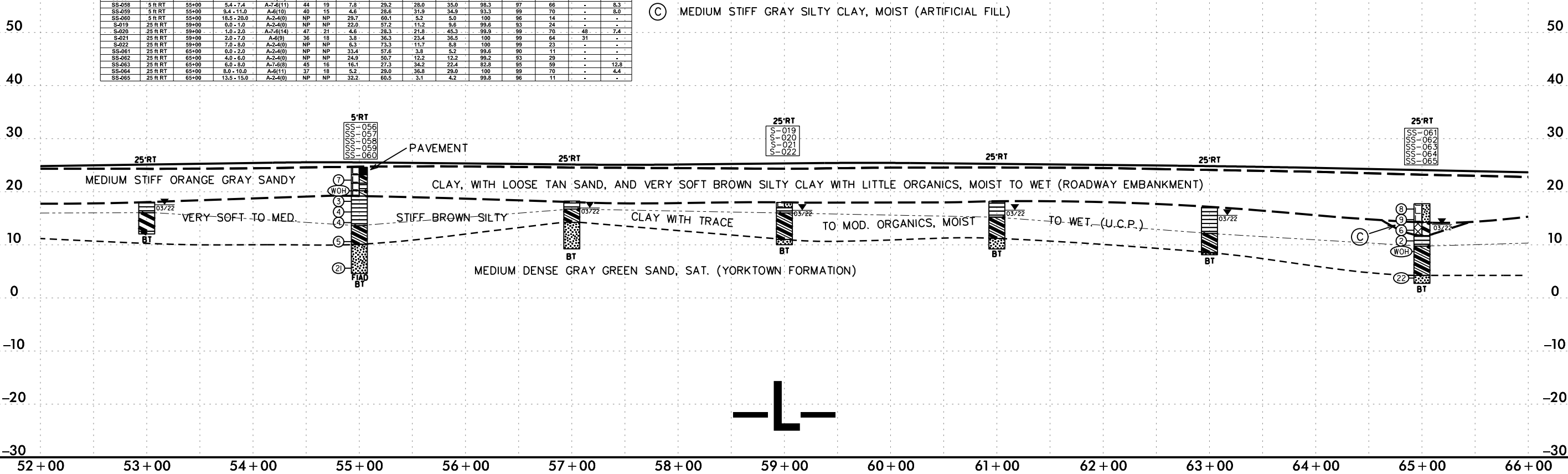
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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				% 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-2(0)	37	21	20.9	23.7	14.8	40.5	99.1	97	36	-	-
SS-054	2 ft RT	41+00	3.0 - 5.0	A-7-6(20)	44	26	5.3	29.7	26.7	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	25.9	55.5	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(22)	35	31	1.3	6.9	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				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-056	5 ft RT	55+00	3.4 - 4.4	A-6(14)	49	20					NEW	NEW	NEW	-	11.8
SS-057	5 ft RT	55+00	4.4 - 5.4	A-6(14)	39	20	1.6	31.7	27.2	38.5	99.9	97	76	-	-
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	10.5 - 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(0)	36	18	3.8	35.3	23.4	35.5	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(0)	45	16	16.1	27.3	34.2	22.4	92.8	95	99	-	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	-	-



5/28/2022

PROJECT REFERENCE NO.

R-5808

SHEET NO.

25

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS

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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
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	-
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	99	43	-
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	-
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	-
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

50

40

30

20

10

0

-10

-20

-30

66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+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-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
S-006	25 ft RT	89+00	0.0 - 8.0	A-4(0)	NP	NP	26.8	22.2	49.4	7.5	99	93	58	173

50

40

30

20

10

0

-10

-20

-30

80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00

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5/28/96

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
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 - 6.0	A-4(0)	NP	NP	27.5	38.9	27.1	5.5	95.6	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	56.5

PROJECT REFERENCE NO.
R-5808

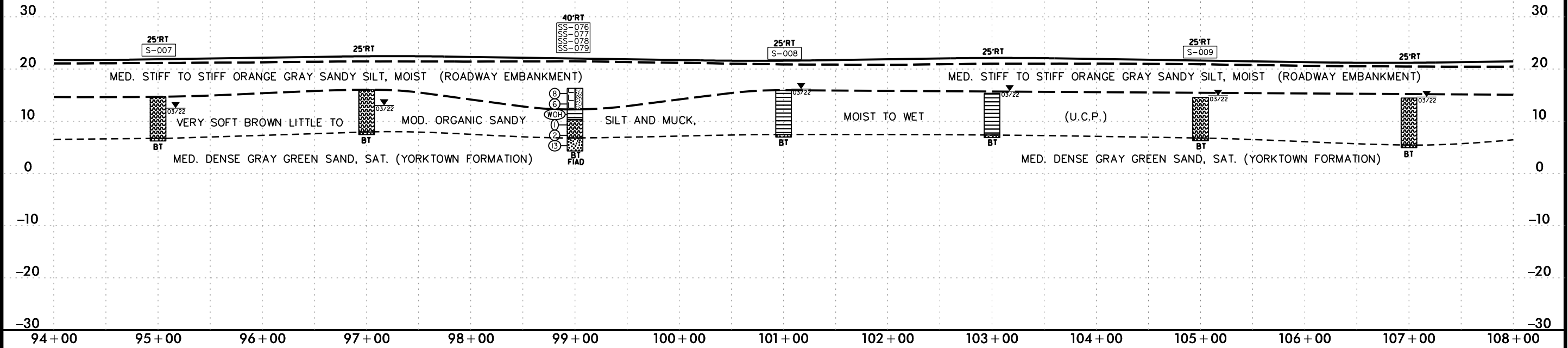
SHEET NO.
26

ROADWAY DESIGN
ENGINEER

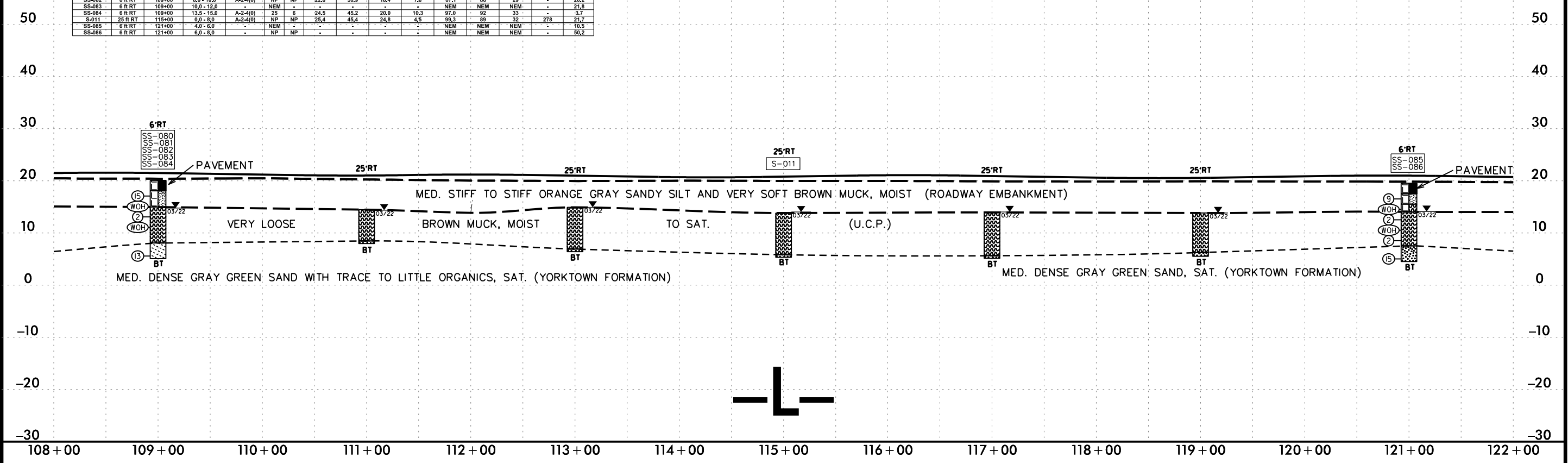
HYDRAULICS
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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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-080	6' RT	109+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	72.3
SS-081	6' 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' 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' RT	109+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.8
SS-084	6' 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' RT	115+00	0.0 - 6.0	A-2-4(0)	NP	NP	25.4	45.4	24.8	4.5	99.3	89	32	278	21.7
SS-085	6' RT	121+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	10.5
SS-086	6' RT	121+00	6.0 - 8.0	-	NP	NP	-	-	-	-	NEM	NEM	NEM	-	50.2



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PROJECT REFERENCE NO.
R-5808

SHEET NO.
27

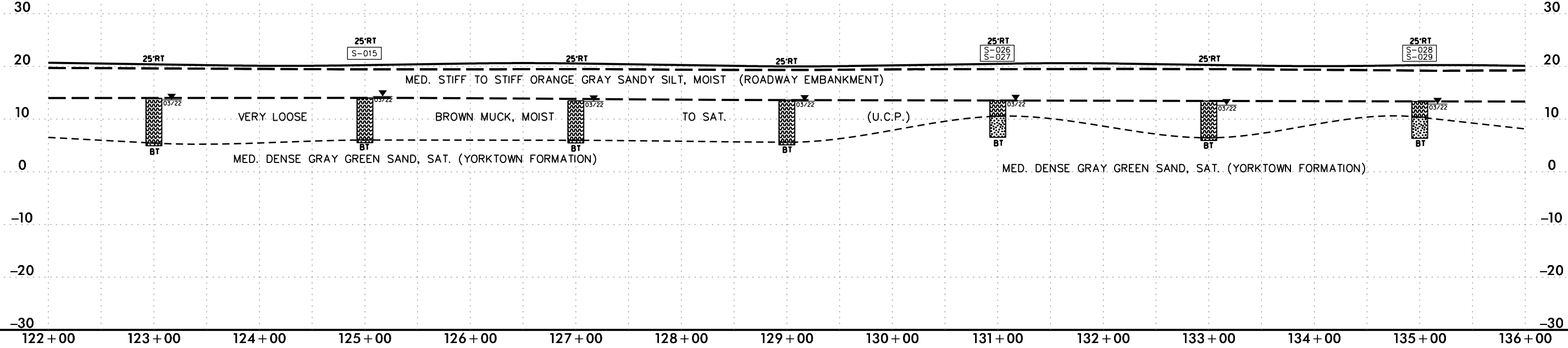
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

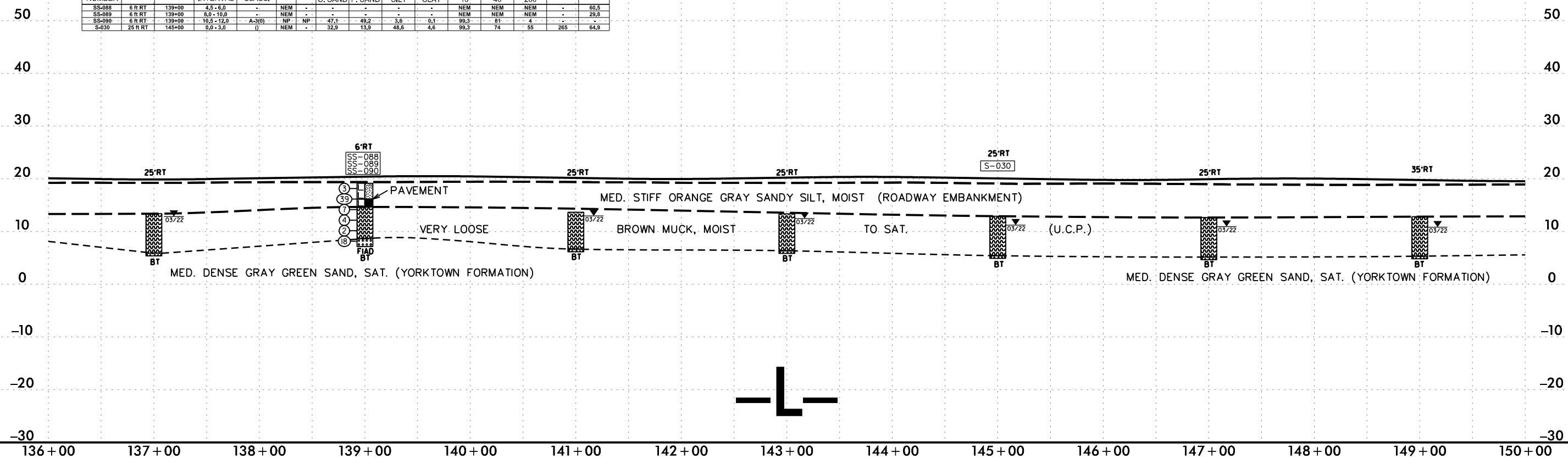
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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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 R 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-025	25 R RT	131+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	560	71.6
S-027	25 R 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 R RT	135+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	74.1
S-029	25 R RT	135+00	3.0 - 7.0	(I)	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				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-088	6 R RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60.5
SS-089	6 R RT	139+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	29.8
SS-090	6 R 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 R RT	145+00	0.0 - 3.0	(I)	NEM	-	32.9	13.9	48.6	4.6	99.3	74	55	265	64.9



5/28/2023

PROJECT REFERENCE NO.
R-5808

SHEET NO.
28

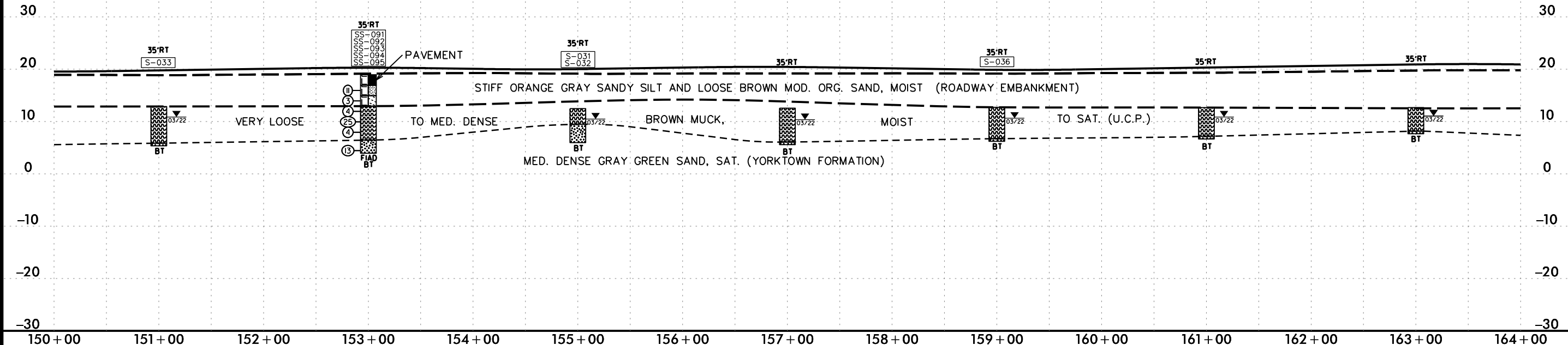
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ENGINEER

HYDRAULICS
ENGINEER

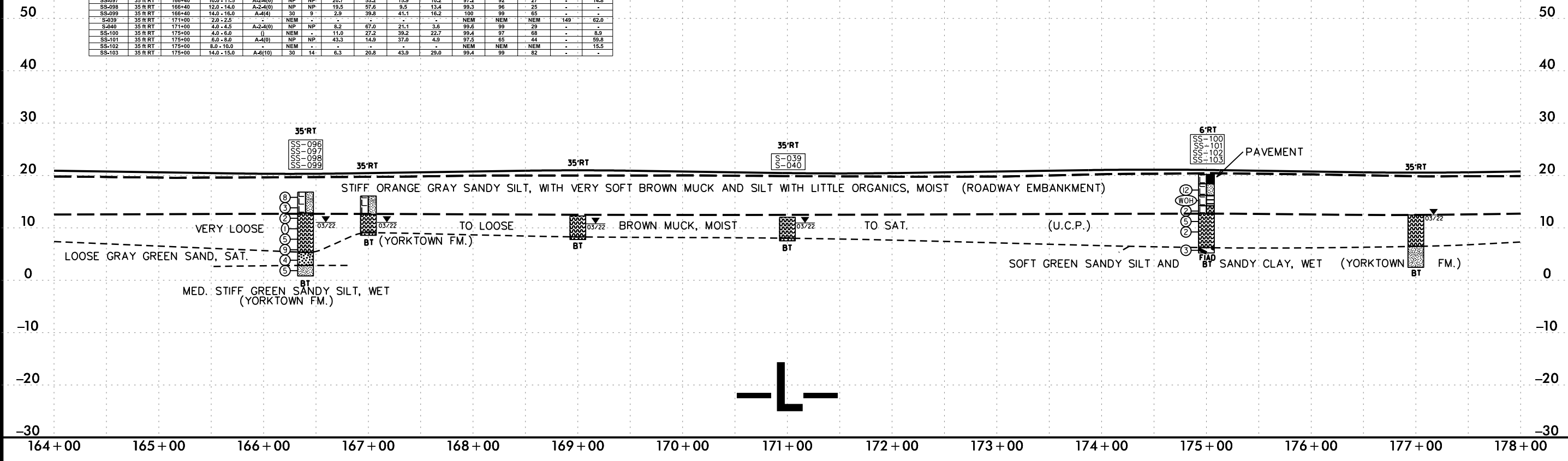
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
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SOIL TEST RESULTS													
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES		
							C. SAND	F. SAND	SILT	CLAY	10	40	200
SS-033	35 R RT	151+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-091	35 R 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
SS-092	35 R RT	153+00	6.0 - 8.0	-	-	-	22.5	20.3	52.8	4.4	91.0	84	60
SS-093	35 R RT	153+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-094	35 R RT	153+00	10.0 - 12.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-095	35 R 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 R RT	155+00	0.0 - 3.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
S-032	35 R RT	155+00	3.0 - 5.5	A-2-4(0)	NP	NP	17.5	72.9	7.3	2.3	99.9	97	11
S-036	35 R RT	159+00	3.0 - 3.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM



SOIL TEST RESULTS													
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES		
							C. SAND	F. SAND	SILT	CLAY	10	40	200
SS-096	35 R RT	166+40	6.0 - 8.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-097	35 R 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
SS-098	35 R 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 R RT	166+40	14.0 - 16.0	A-4(0)	NP	NP	9	2.9	38.6	41.1	100	99	65
S-039	35 R RT	171+00	2.0 - 2.5	-	NEM	-	-	-	-	-	NEM	NEM	NEM
S-040	35 R RT	171+00	4.0 - 4.5	A-2-4(0)	NP	NP	8.2	67.0	21.1	3.6	99.5	99	29
SS-100	35 R RT	175+00	4.0 - 6.0	-	NEM	-	11.0	27.2	38.2	22.7	99.4	97	68
SS-101	35 R RT	175+00	6.0 - 8.0	A-4(0)	NP	NP	43.3	14.9	37.6	4.9	97.5	65	44
SS-102	35 R RT	175+00	8.0 - 10.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM
SS-103	35 R RT	175+00	14.0 - 15.0	A-6(10)	NP	NP	6.3	20.8	43.9	29.0	99.4	99	82



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Lee Stone
5/28/2023

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PROJECT REFERENCE NO.
R-5808

SHEET NO.
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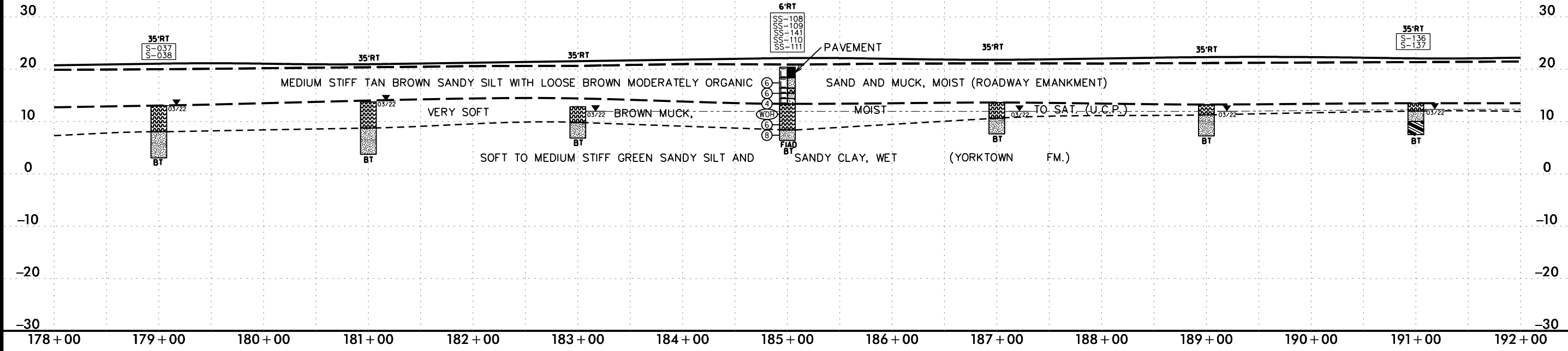
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ENGINEER

HYDRAULICS
ENGINEER

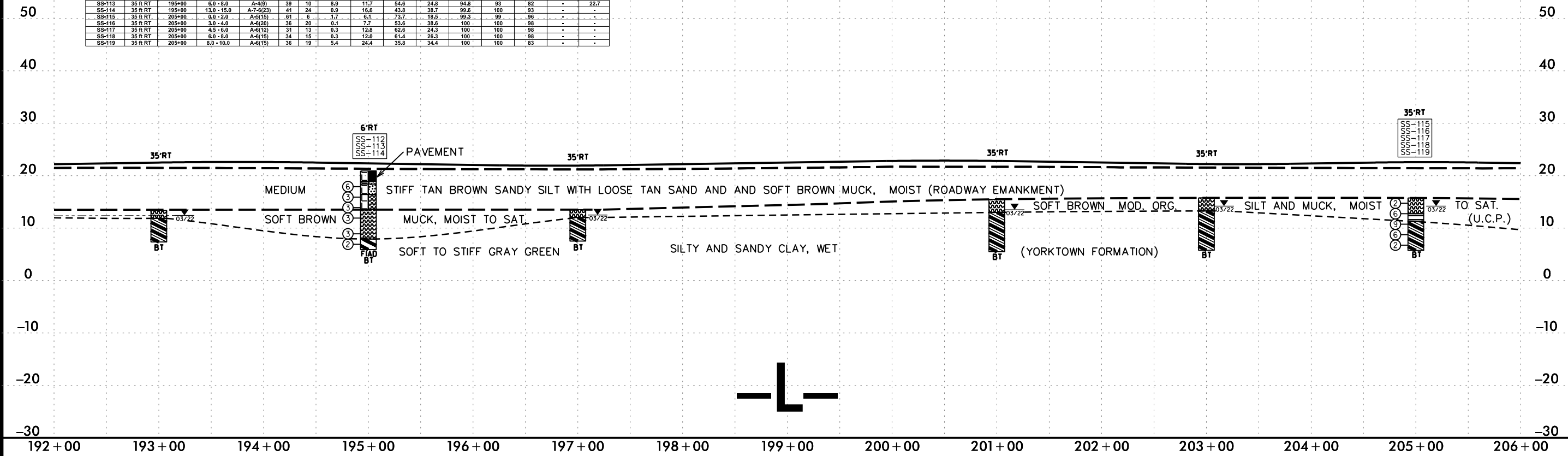
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
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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	-	18.8	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	99.6	82	65	-	20.9
SS-141	6 ft RT	185+00	5.0 - 6.0	A-4(0)	NP	NP	13.9	44.4	29.6	12.9	99.4	99	48	-	-
SS-110	6 ft RT	185+00	6.0 - 7.0	A-2-M(0)	NP	NP	16.8	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.	% 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(0)	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-4(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	-	-	



5/28/2022

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' 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' 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' 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' 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' RT	215+00	2.0 - 4.0	A-6(10)	29	12	1.0	9.8	52.5	36.8	99.9	100	96	-	4.6
SS-122	35' 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' RT	215+00	6.0 - 8.0	A-6(20)	38	20	0.6	12.4	54.5	32.5	100	100	97	-	-

PROJECT REFERENCE NO.
R-5808

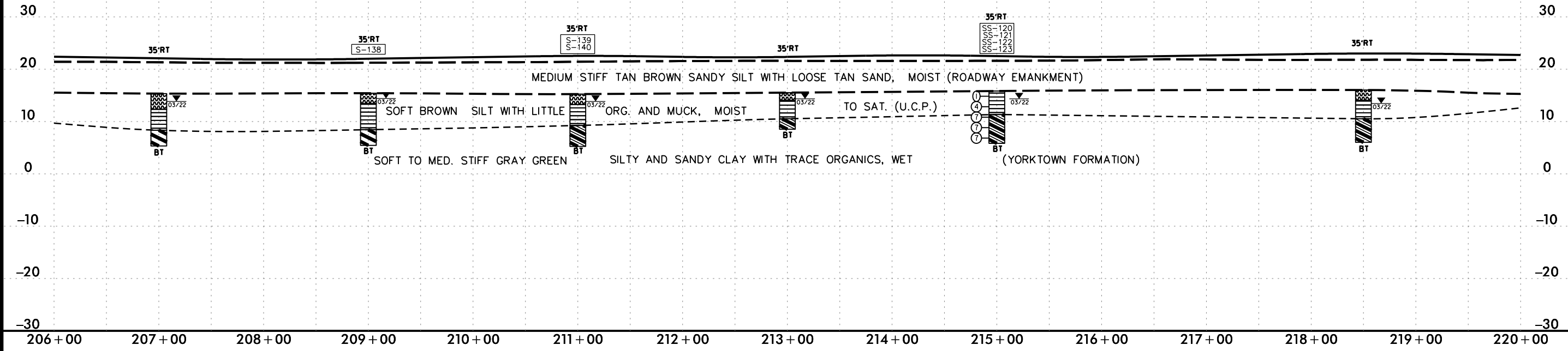
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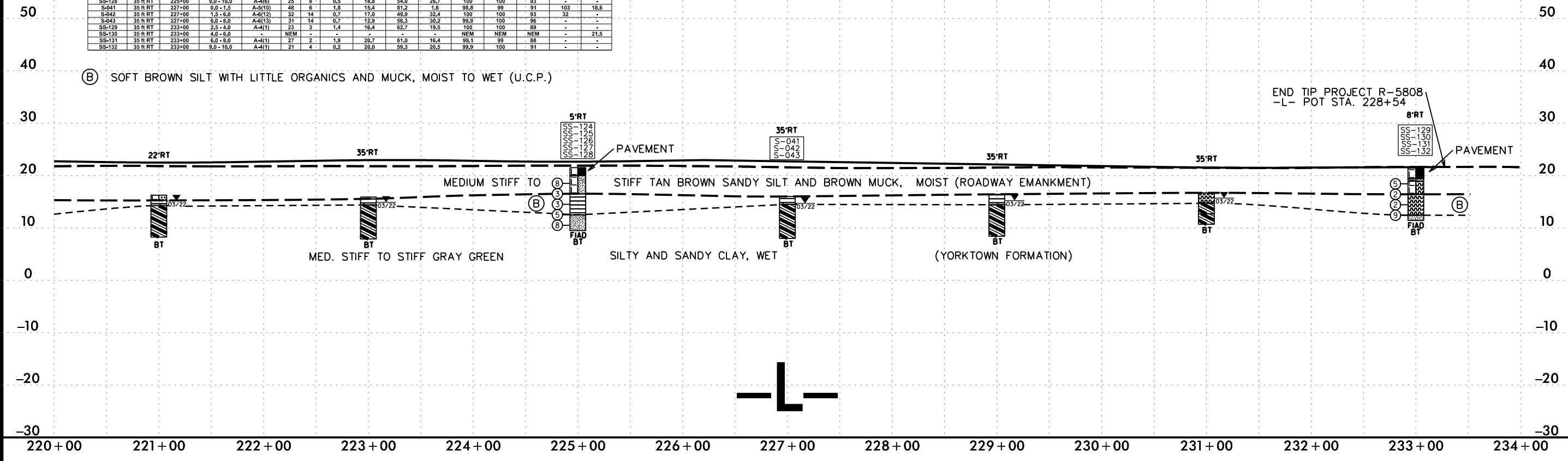
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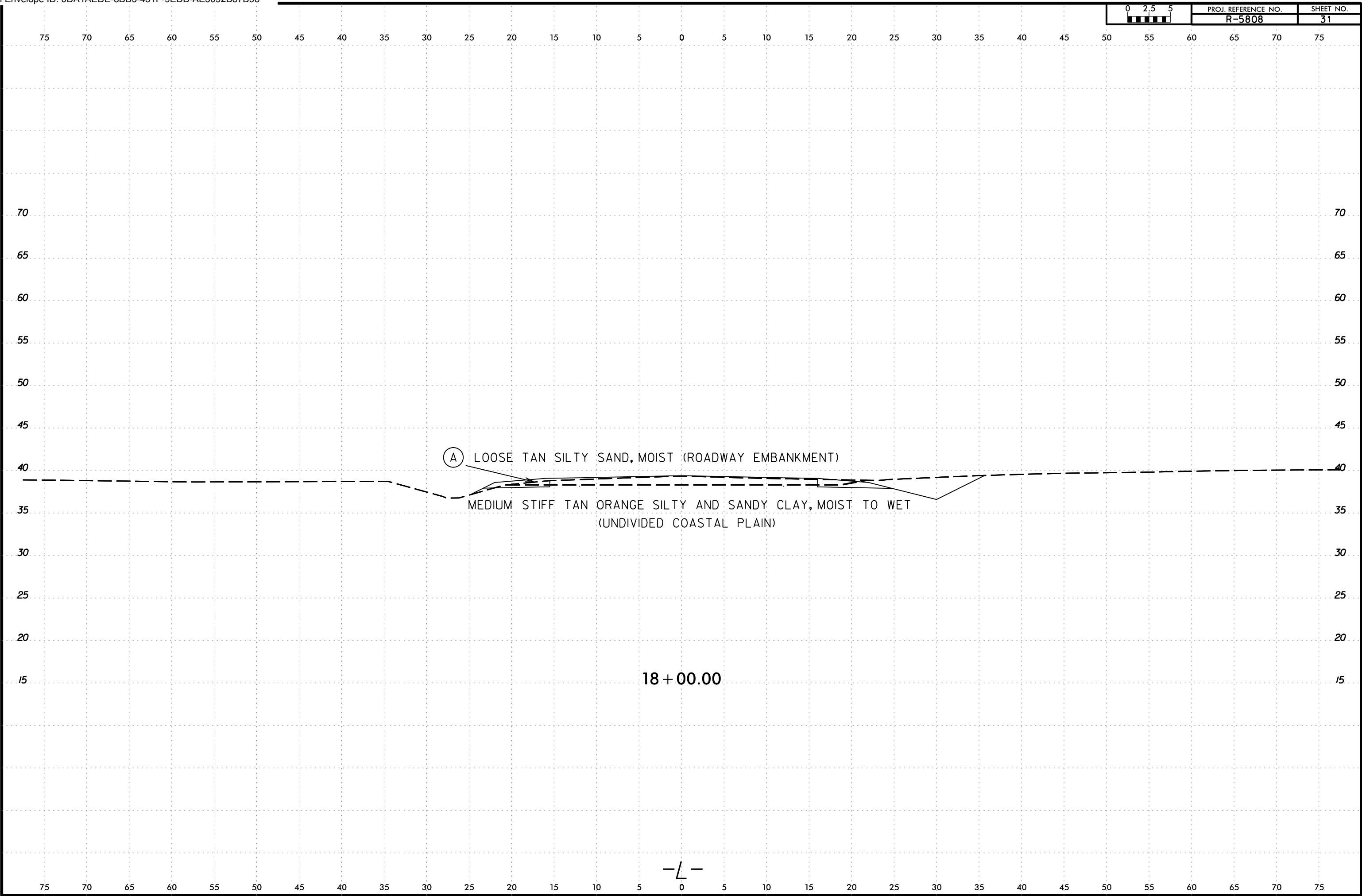
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DO NOT USE FOR R/W ACQUISITION

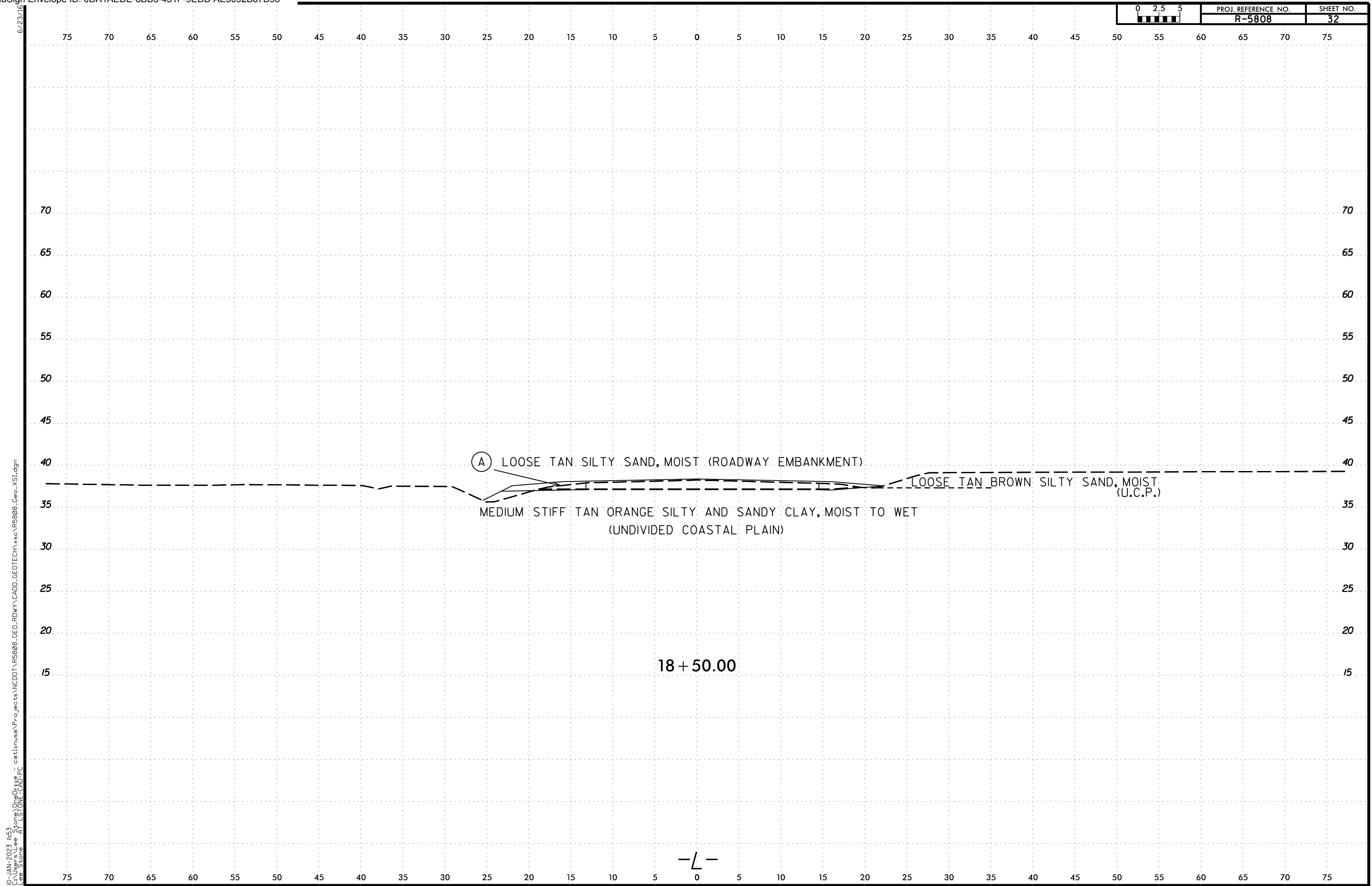
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UNLESS ALL SIGNATURES COMPLETED



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
SS-124	35' 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' 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' 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' RT	225+00	8.0 - 9.0	A-4(10)	33	4	2.9	16.2	62.7	18.2	95.8	99	90	-	9.9
SS-128	35' 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' 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' 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' 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' 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' RT	233+00	4.0 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	21.5
SS-131	35' RT	233+00	6.0 - 8.0	A-4(1)	27	2	1.9	20.7	61.0	16.4	98.1	99	88	-	-
SS-132	35' RT	233+00	9.0 - 10.0	A-4(1)	21	4	0.2	28.0	59.3	20.5	99.9	100	91	-	-



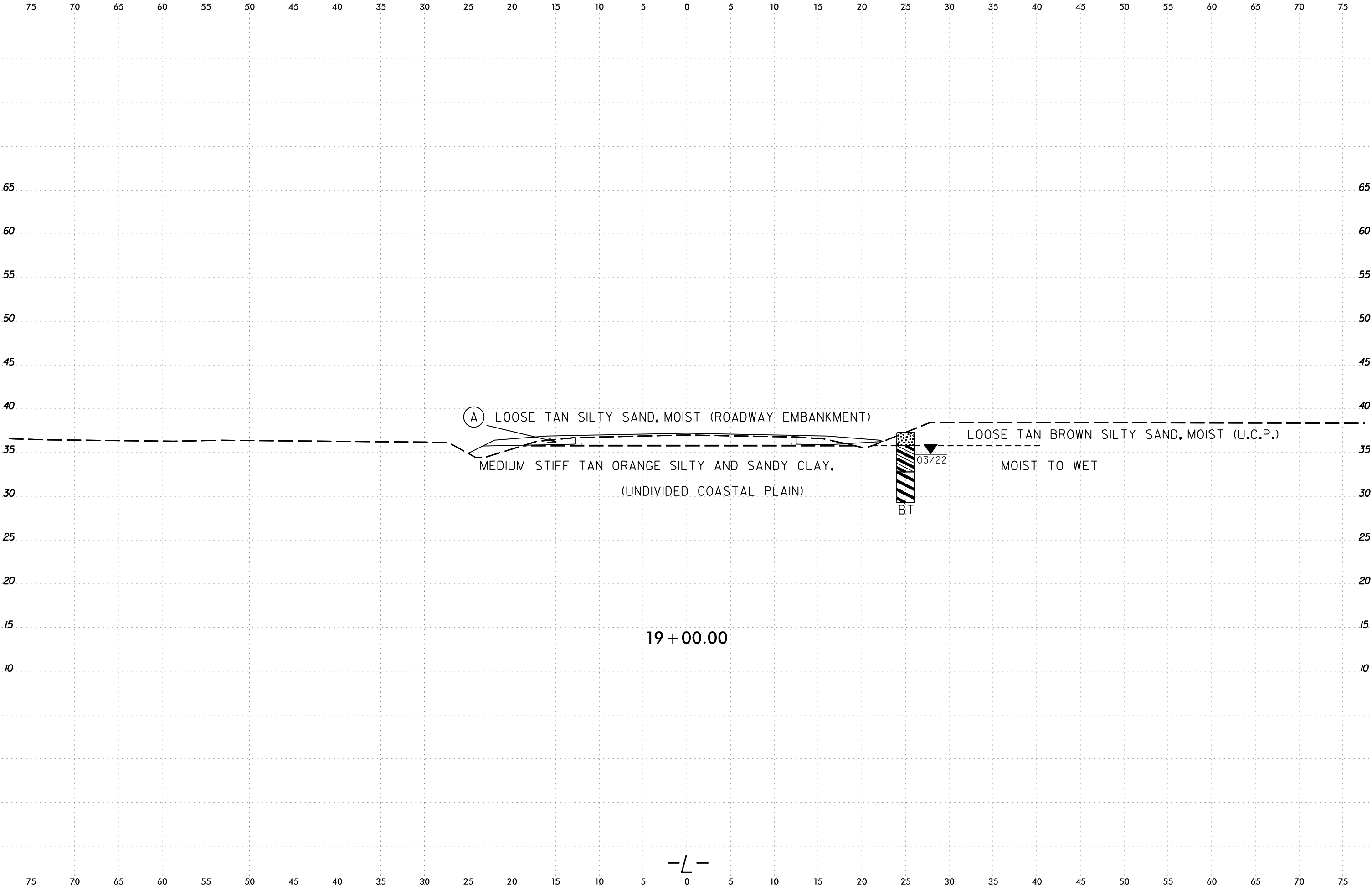


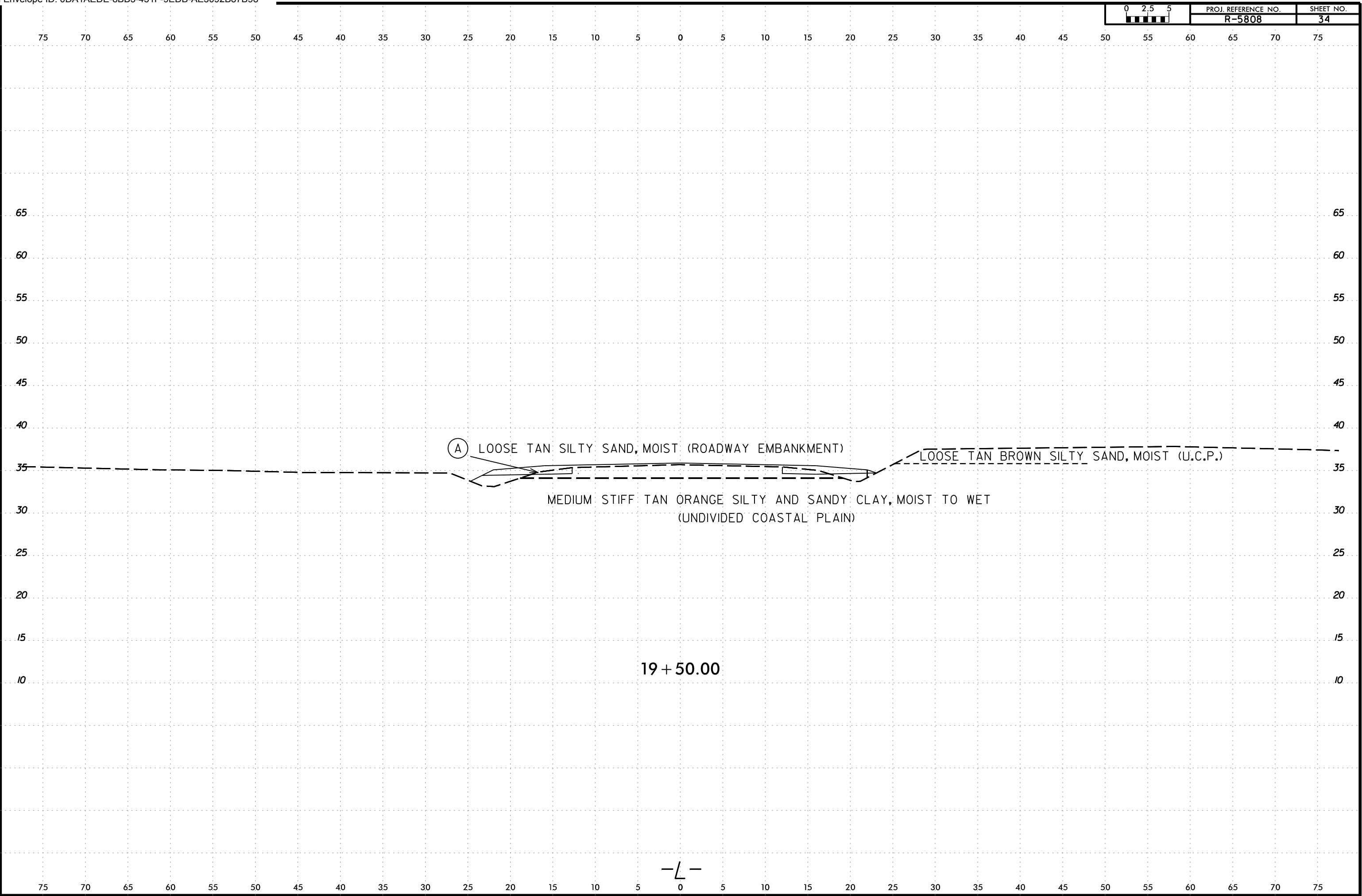


6/23/16

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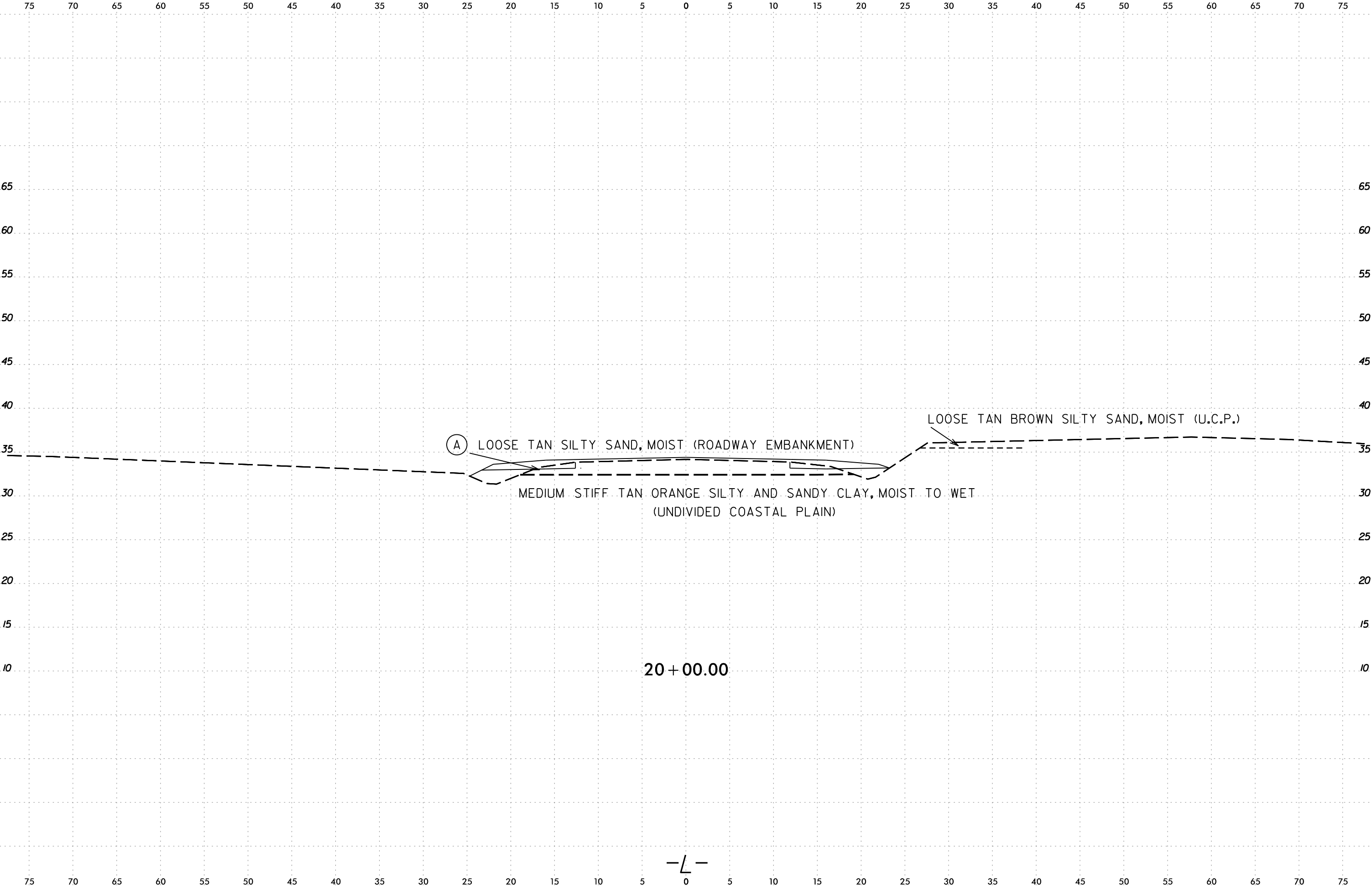




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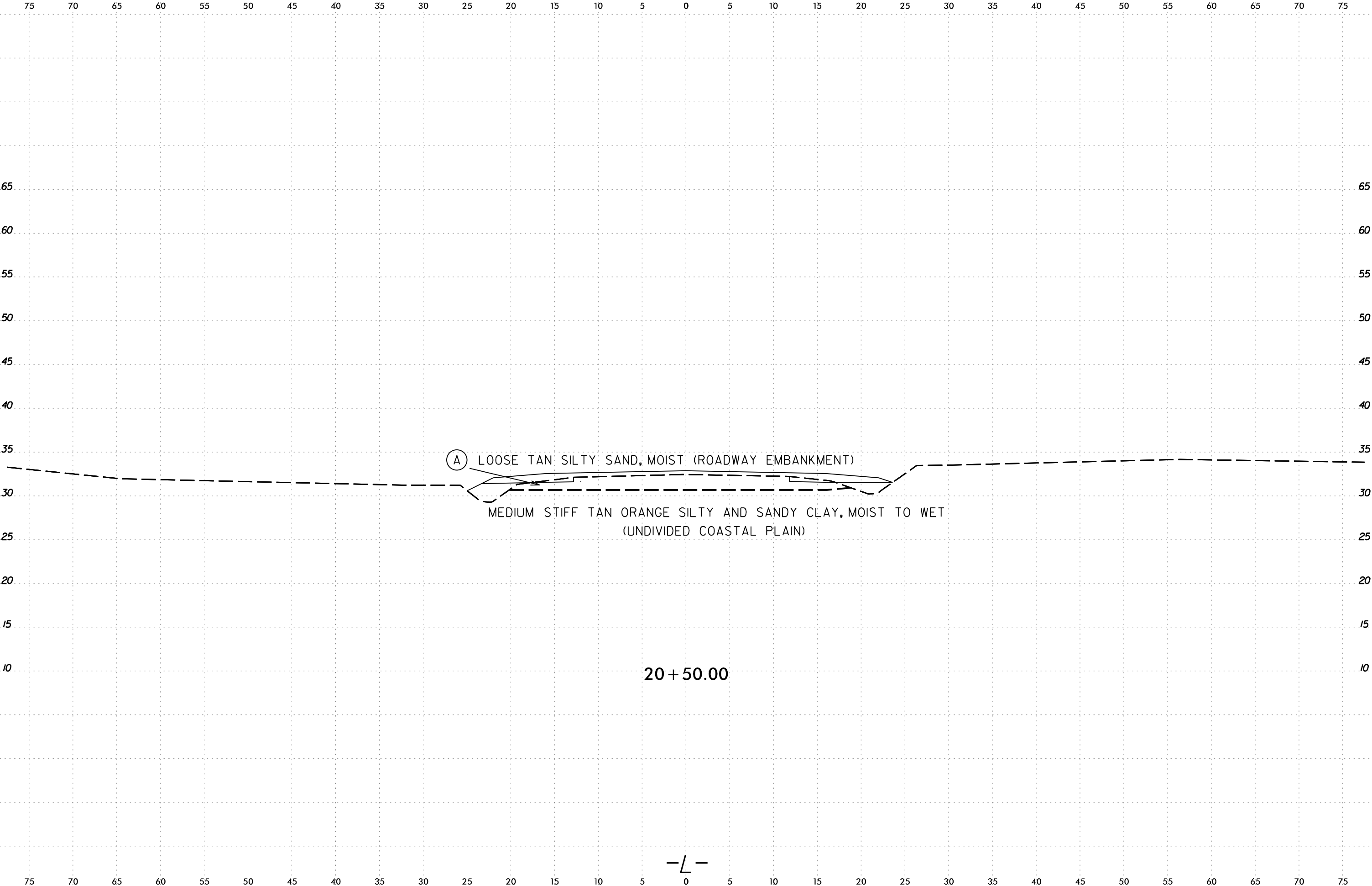
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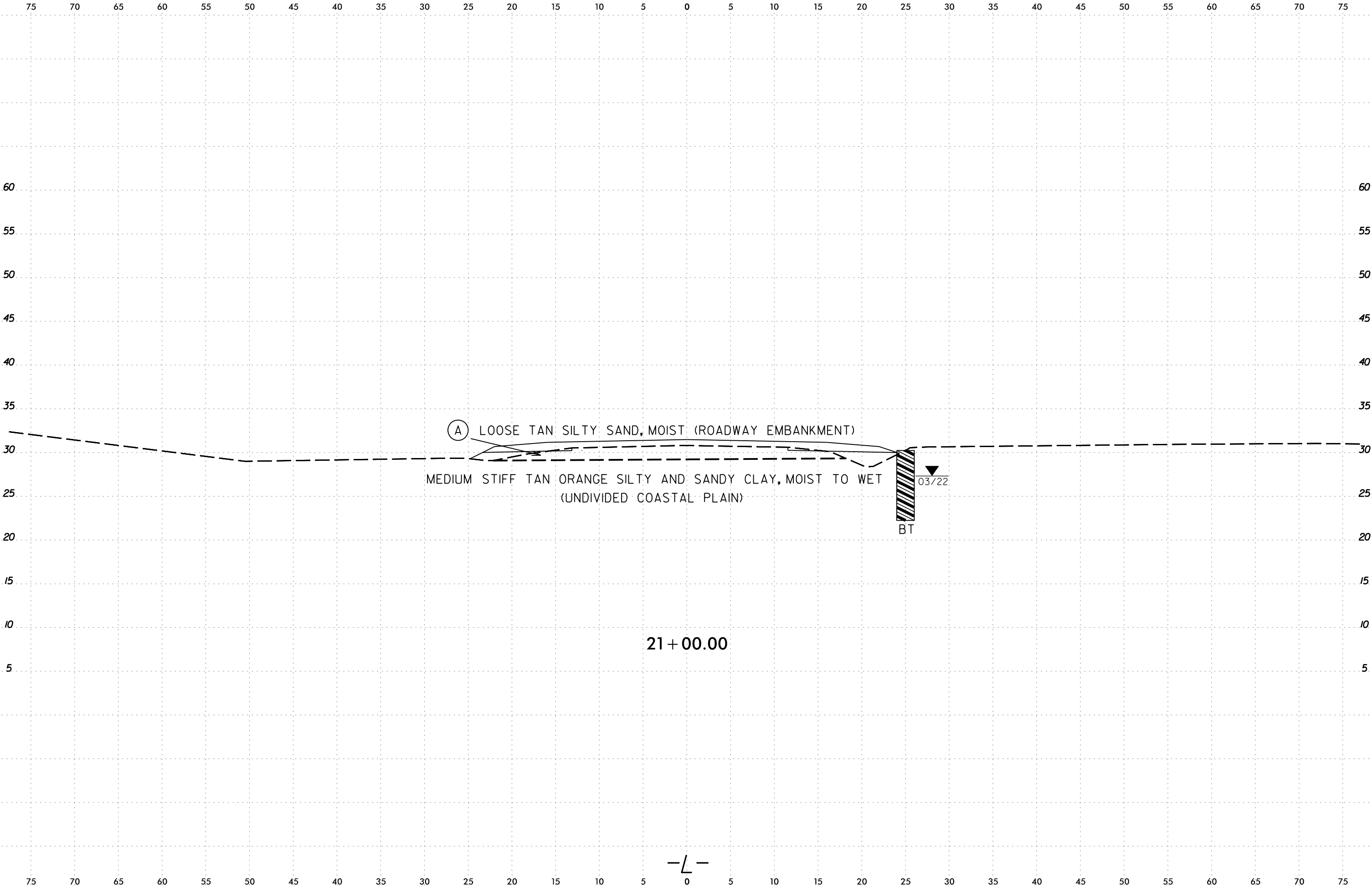
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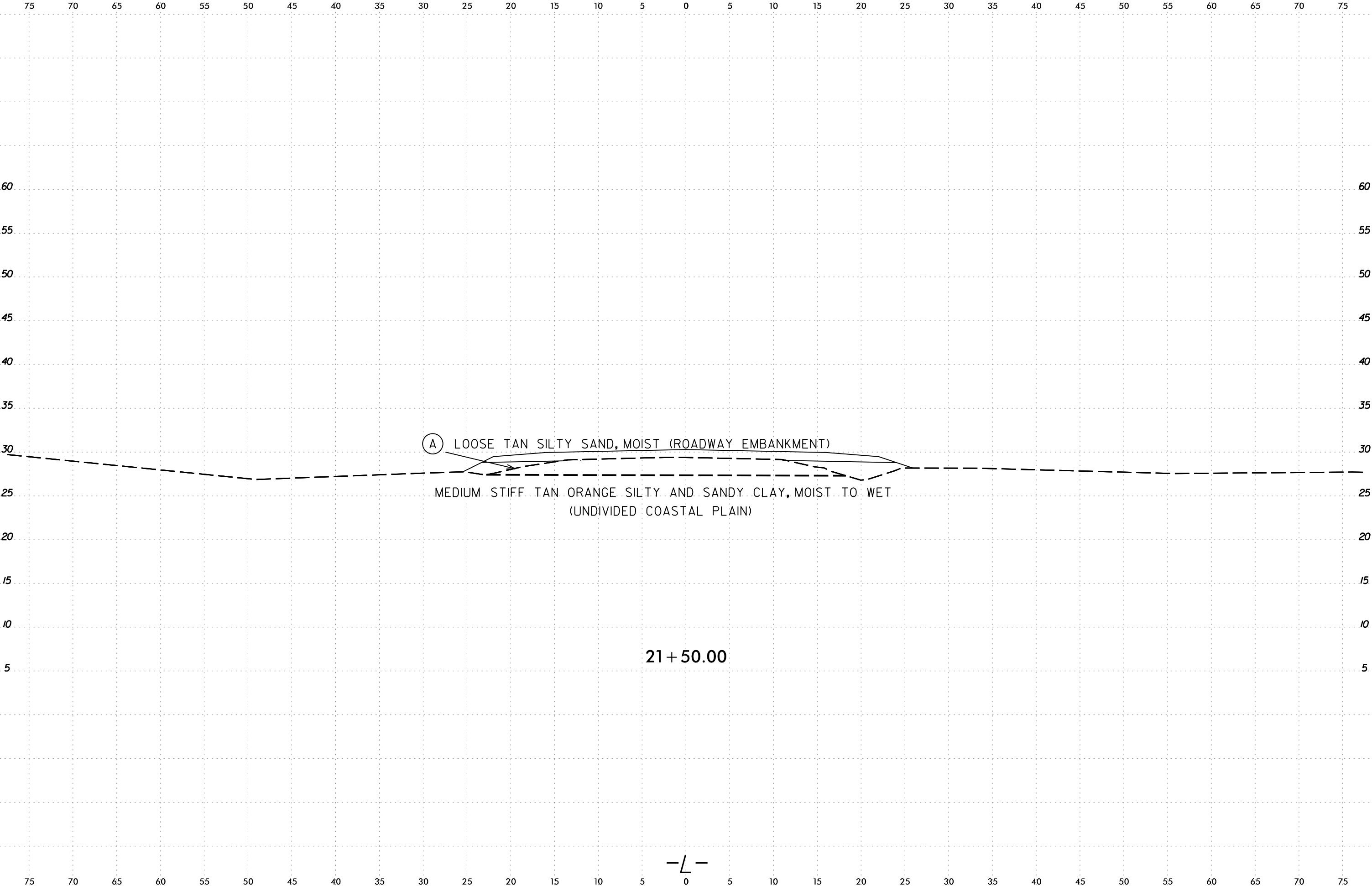
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6/23/16

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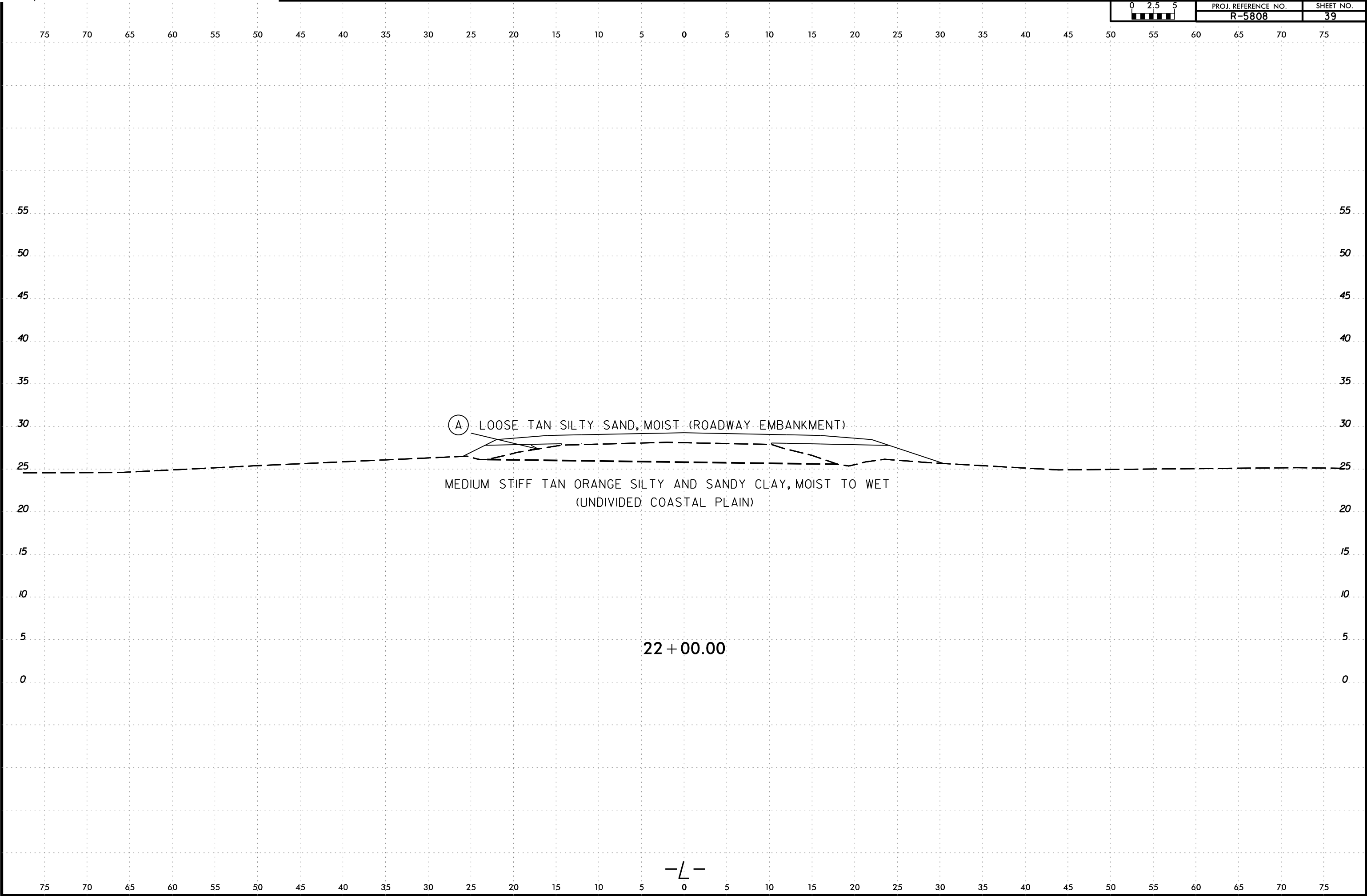
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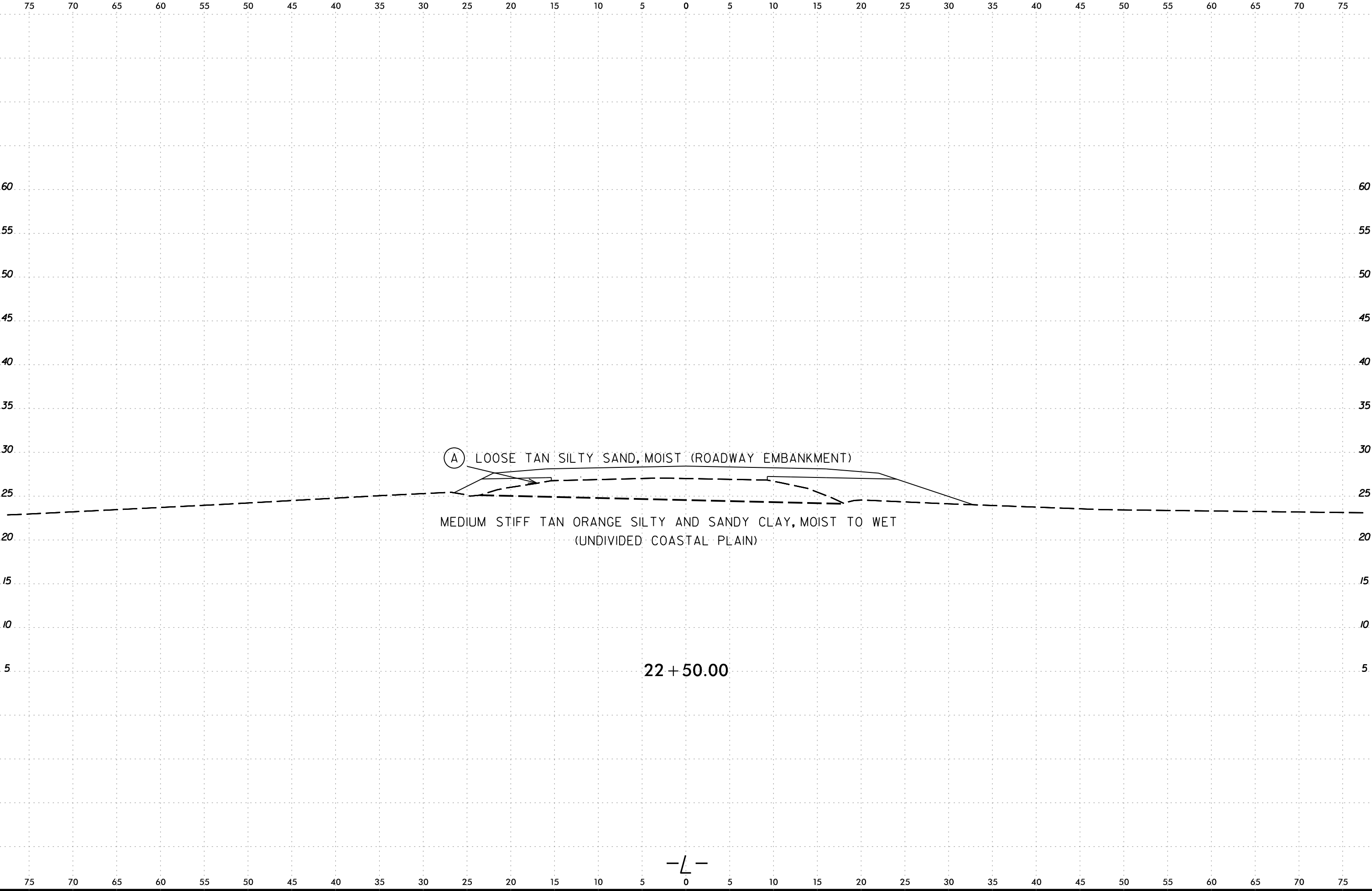
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6/23/16

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	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	41

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)

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

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

S-003
S-004

BT

03/22

MOIST TO WET

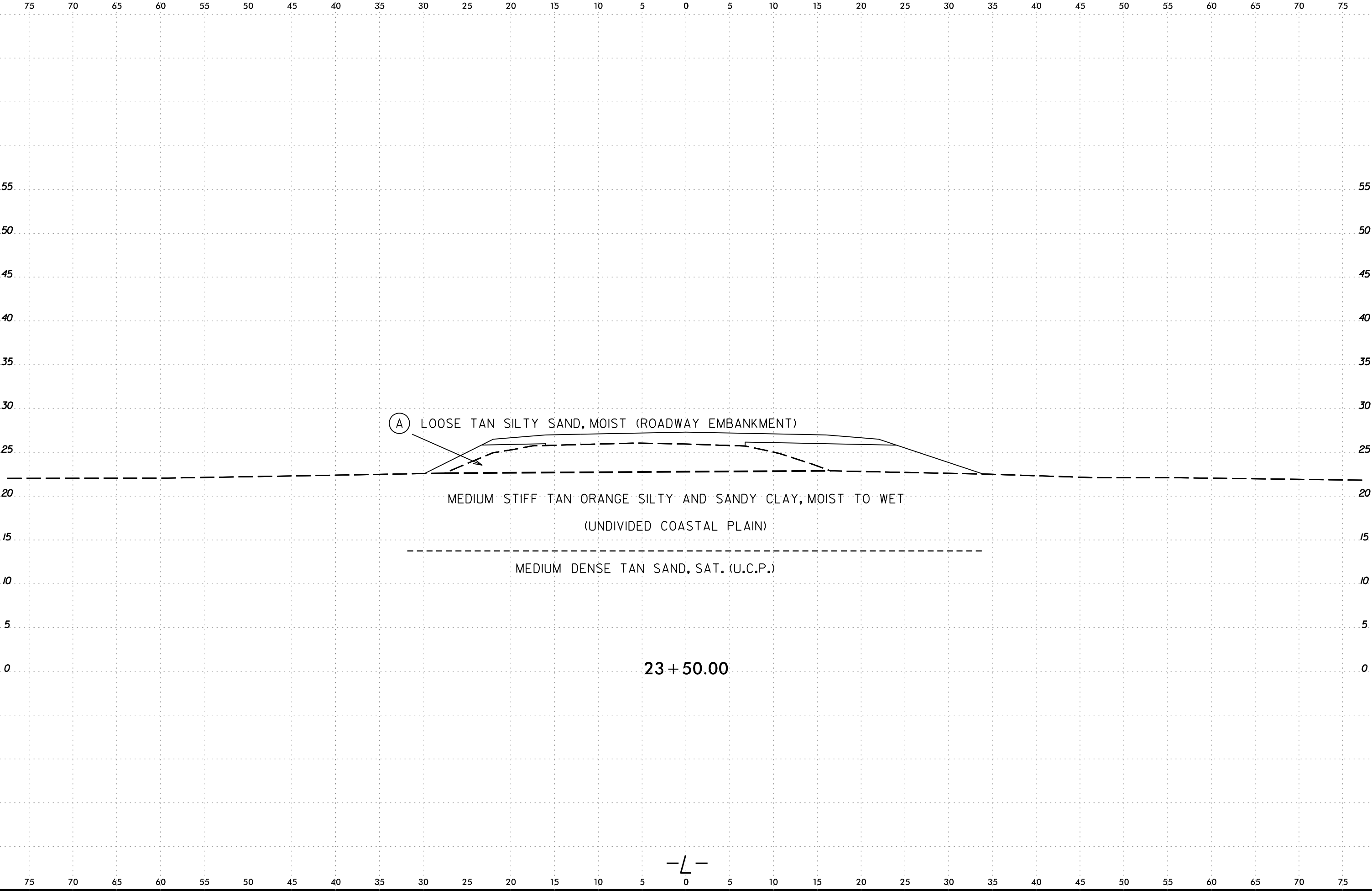
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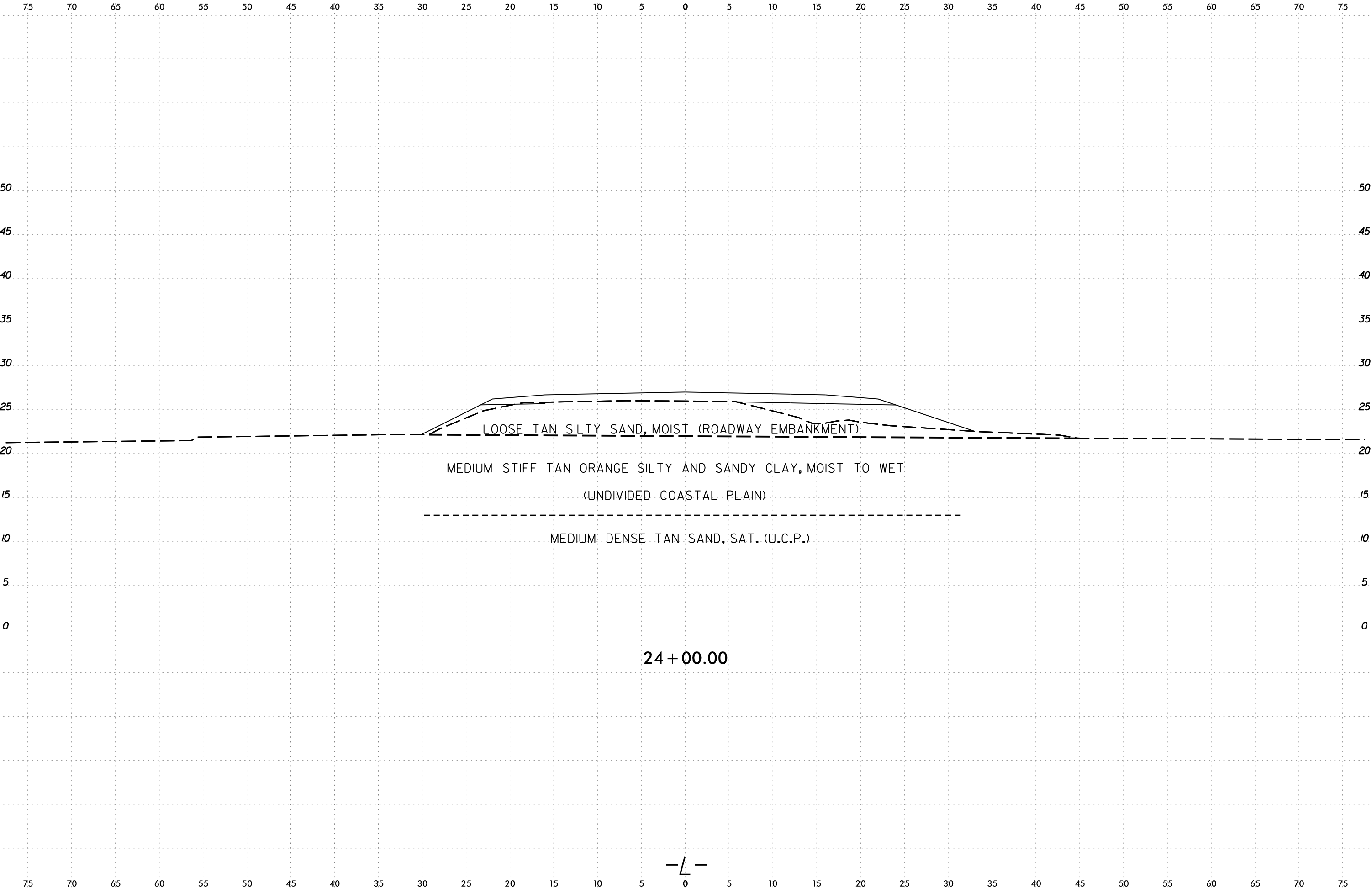
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6/23/16

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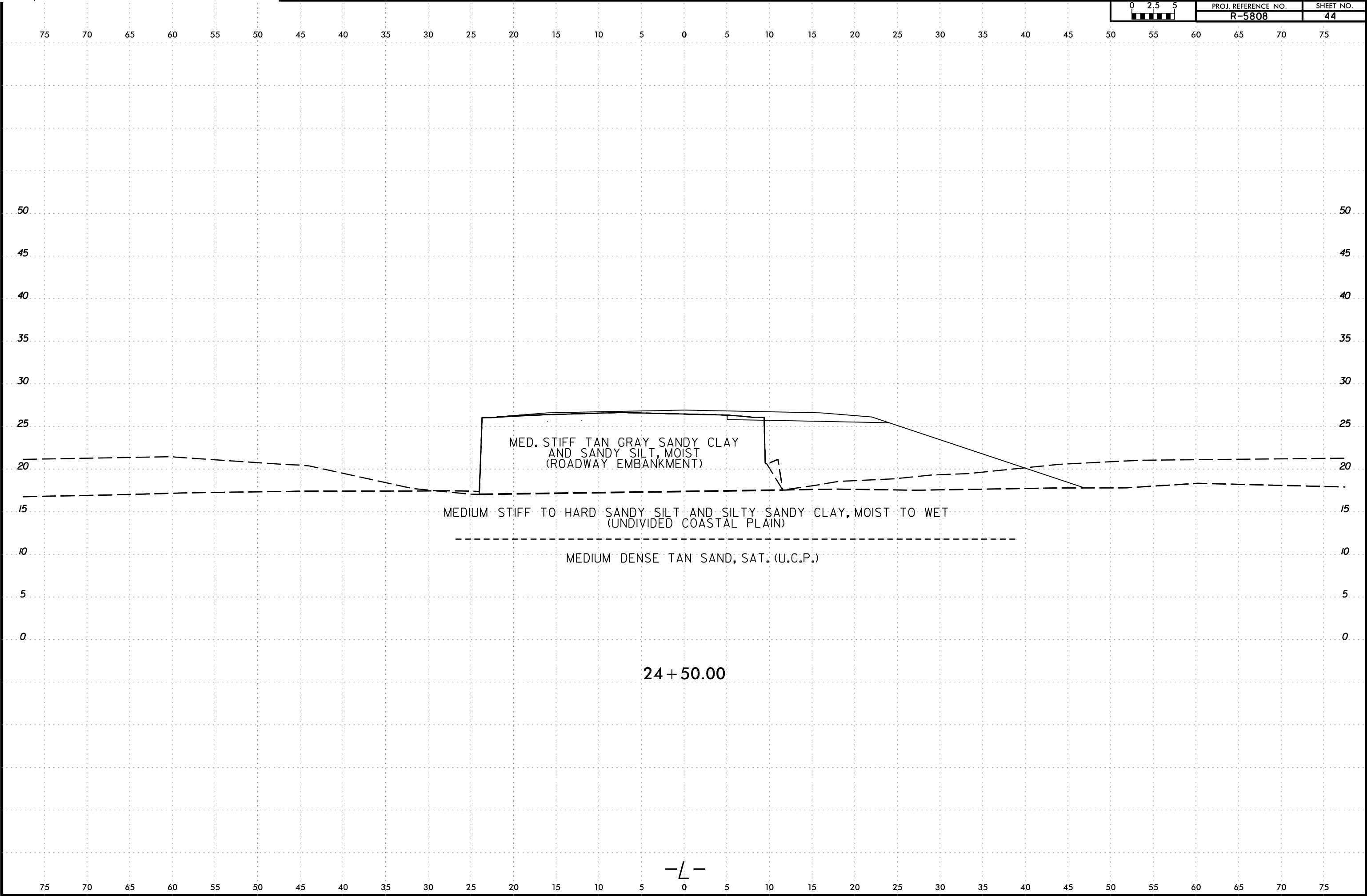
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6/23/16

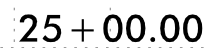
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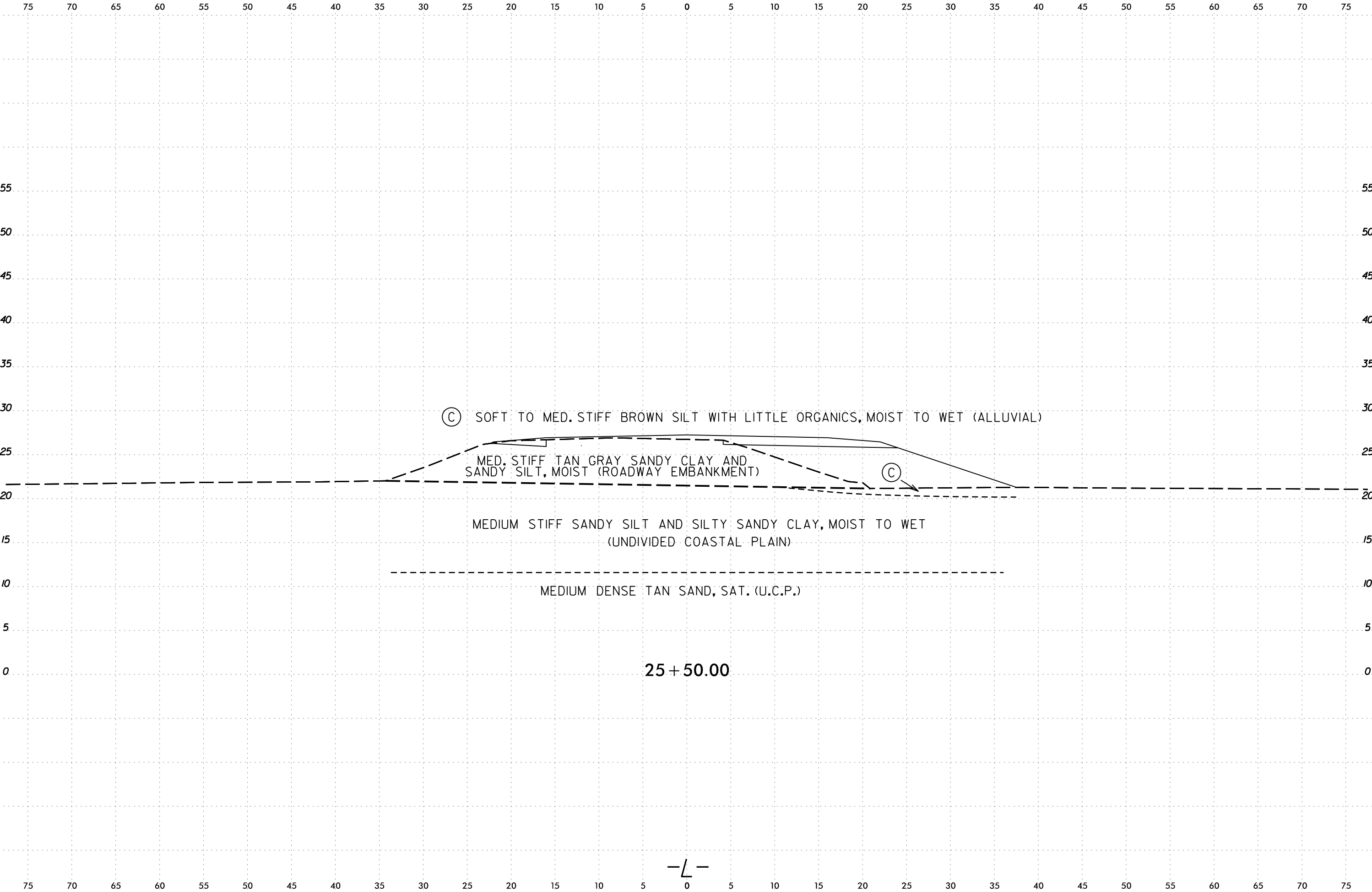
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SS-046
SS-047
SS-048



6/23/16

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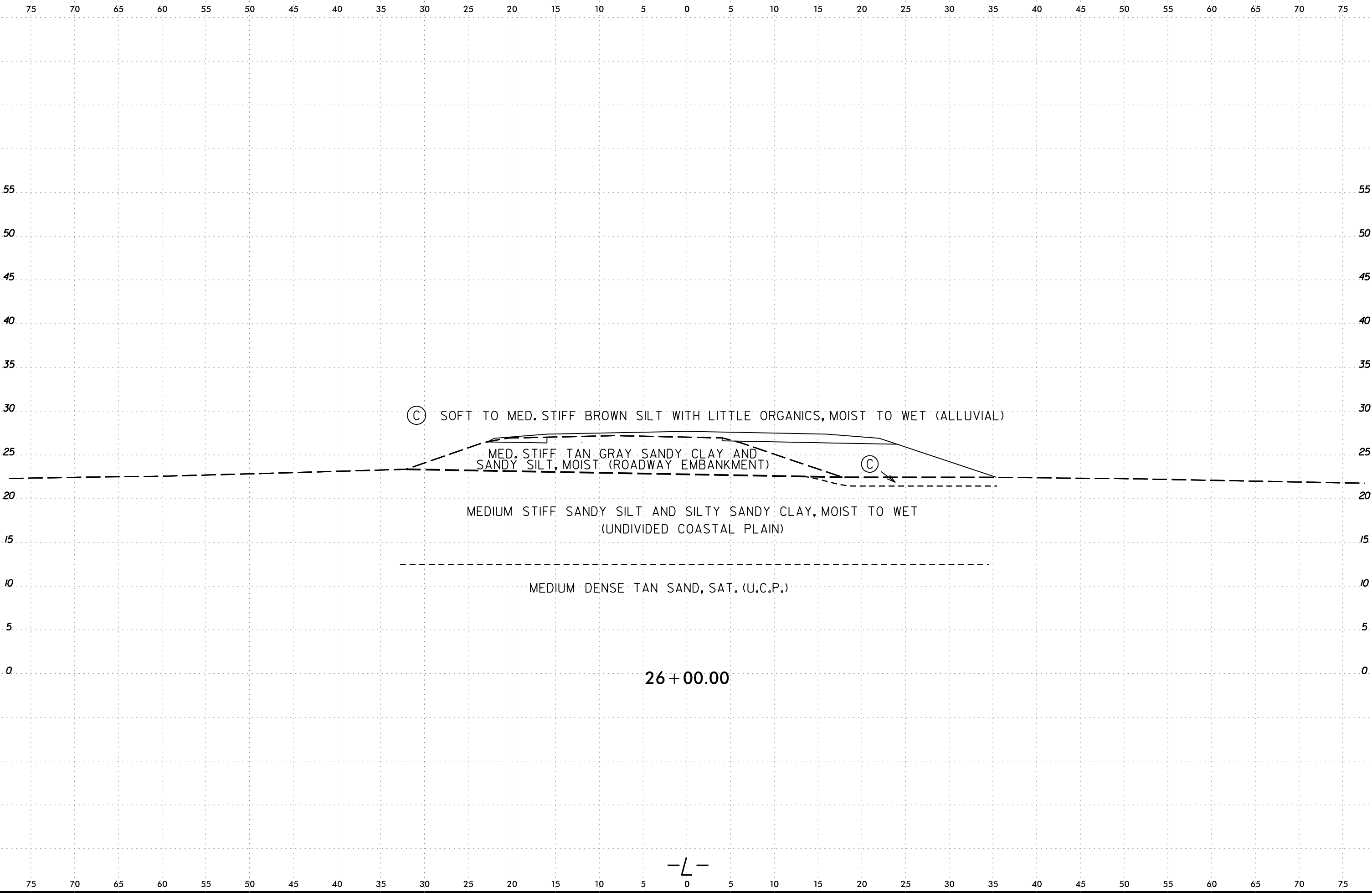
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6/23/16

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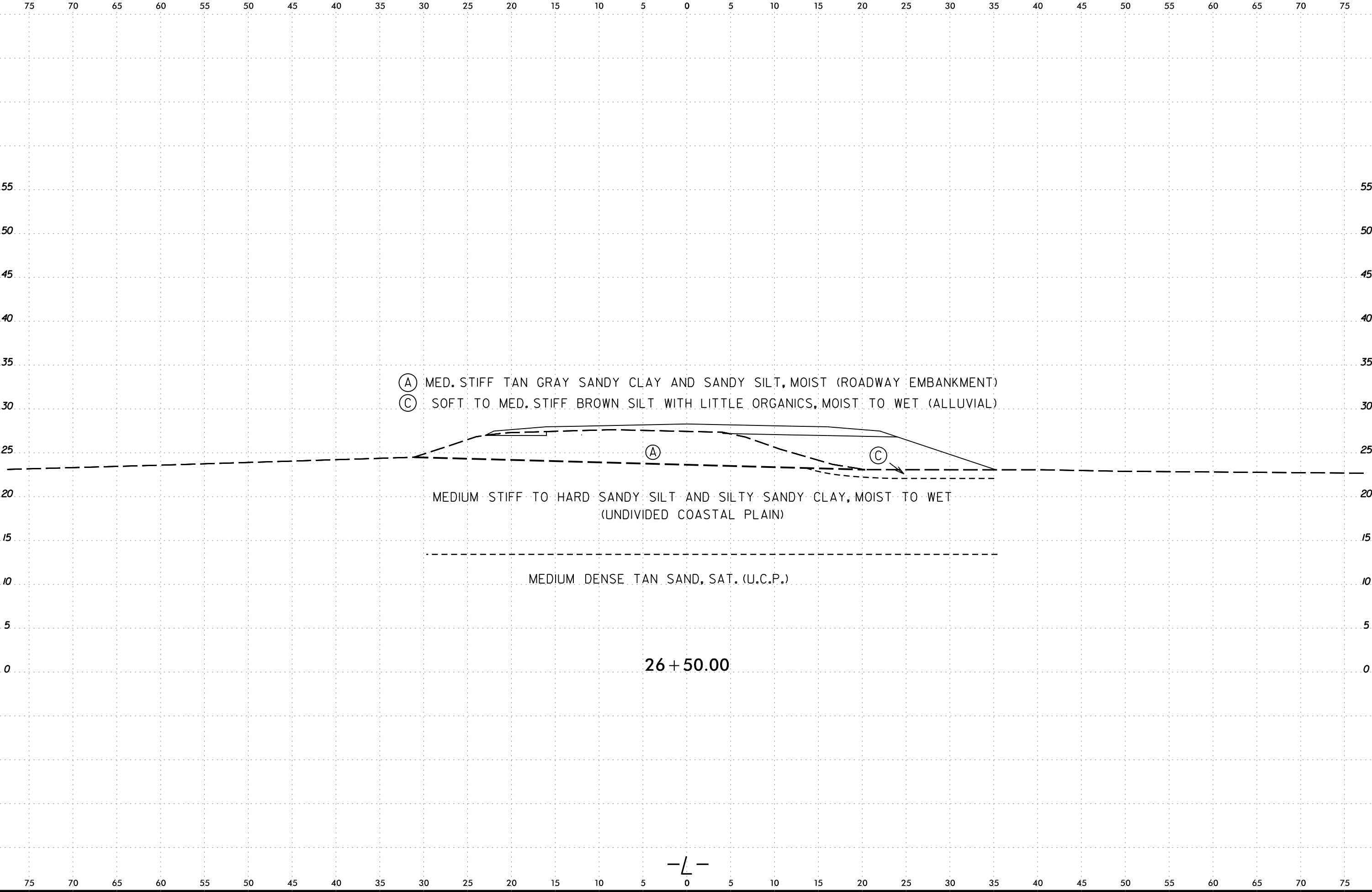
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6/23/16

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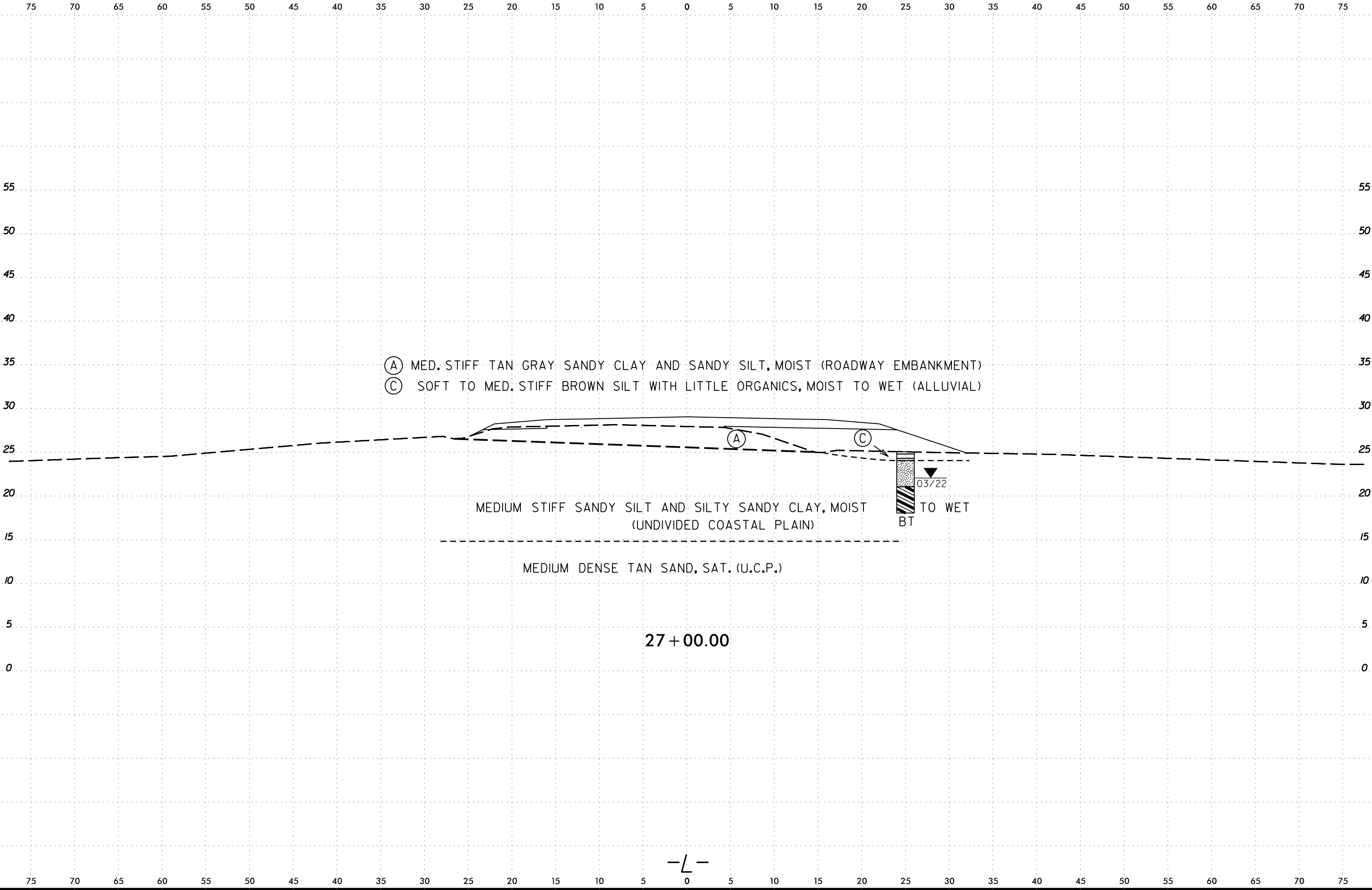
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	R-5808	49

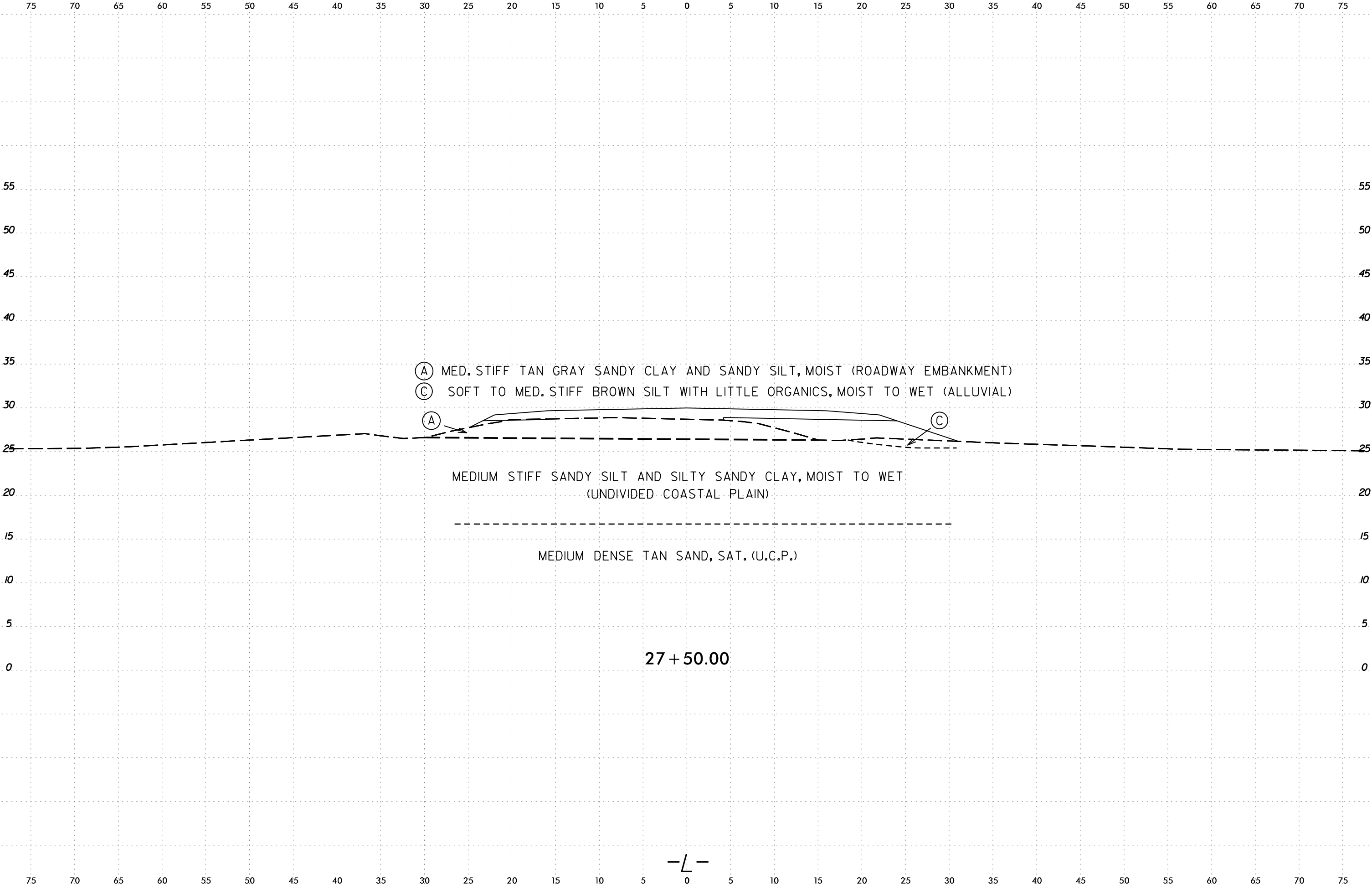


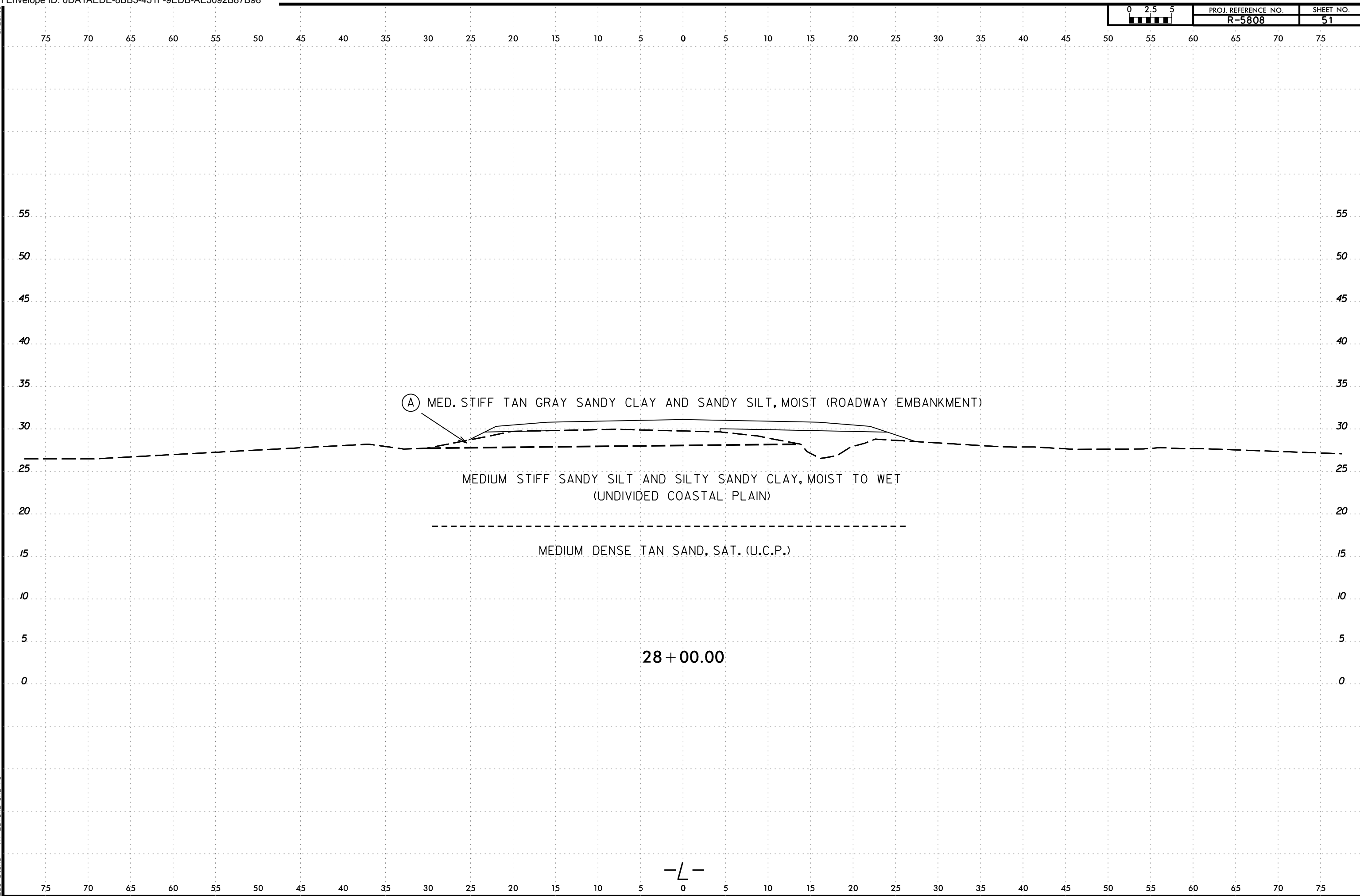
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Lee Stone AT LSTONE-CAD-PC

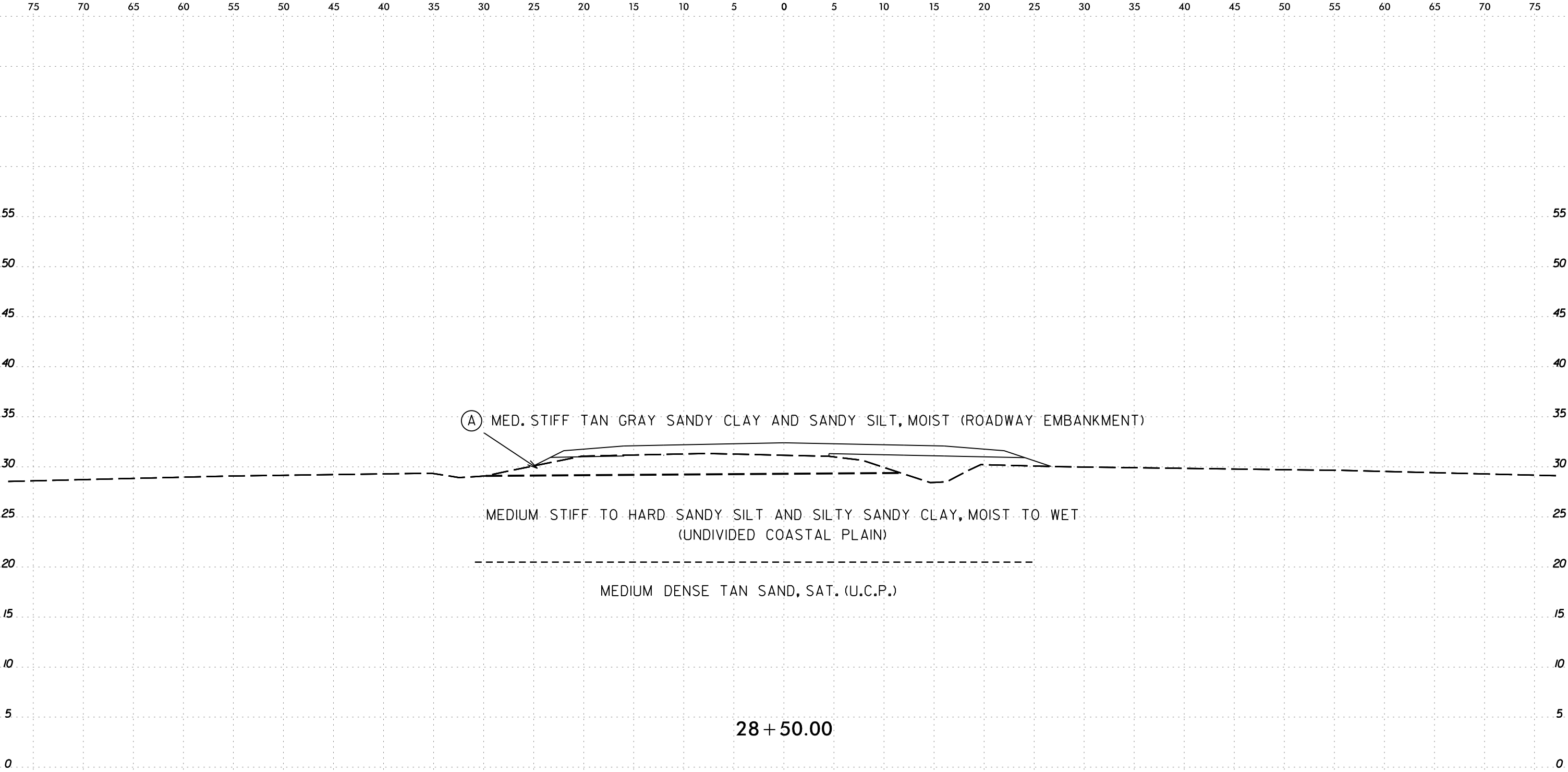
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6/23/16

02.55 0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	52

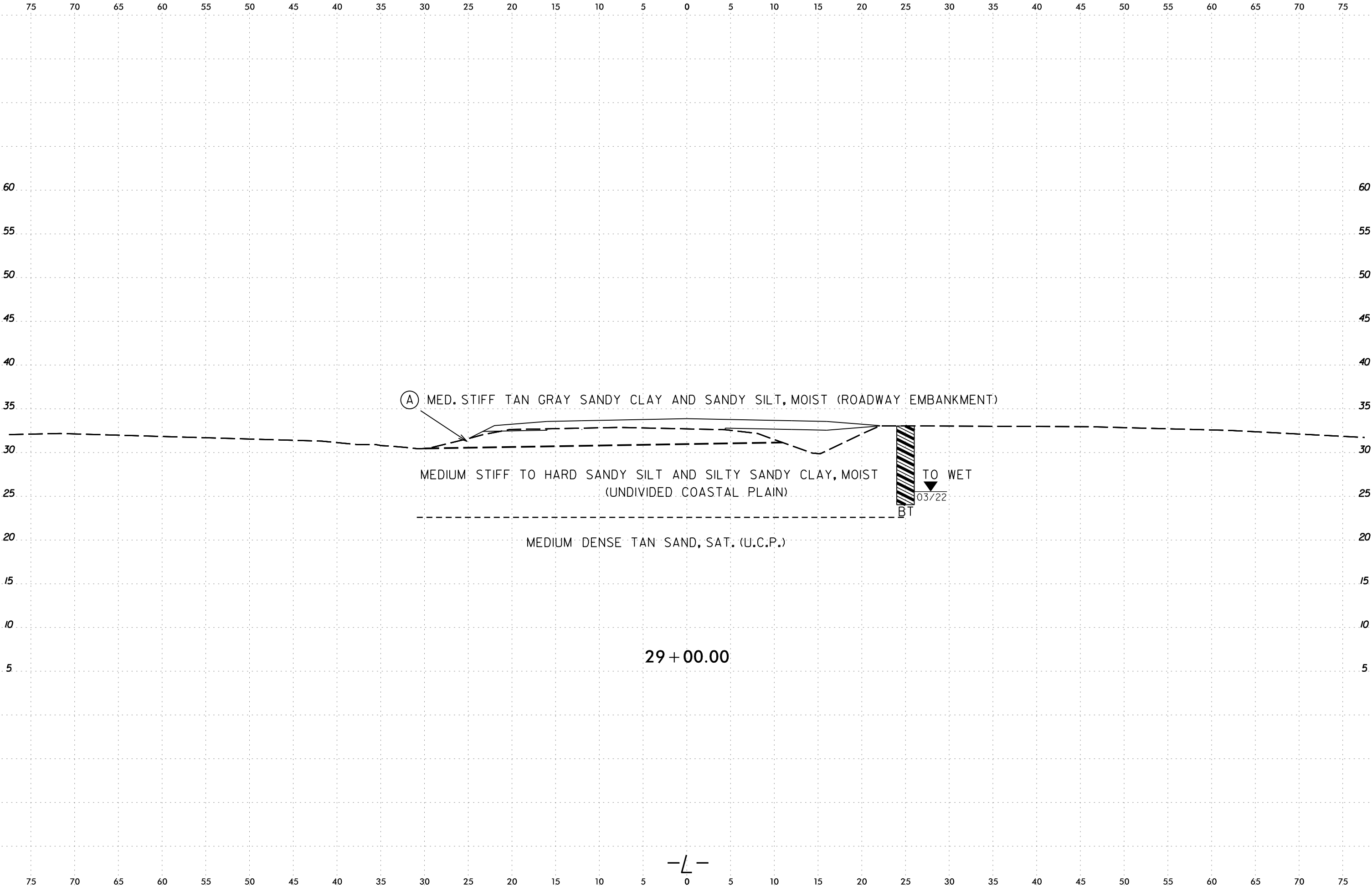


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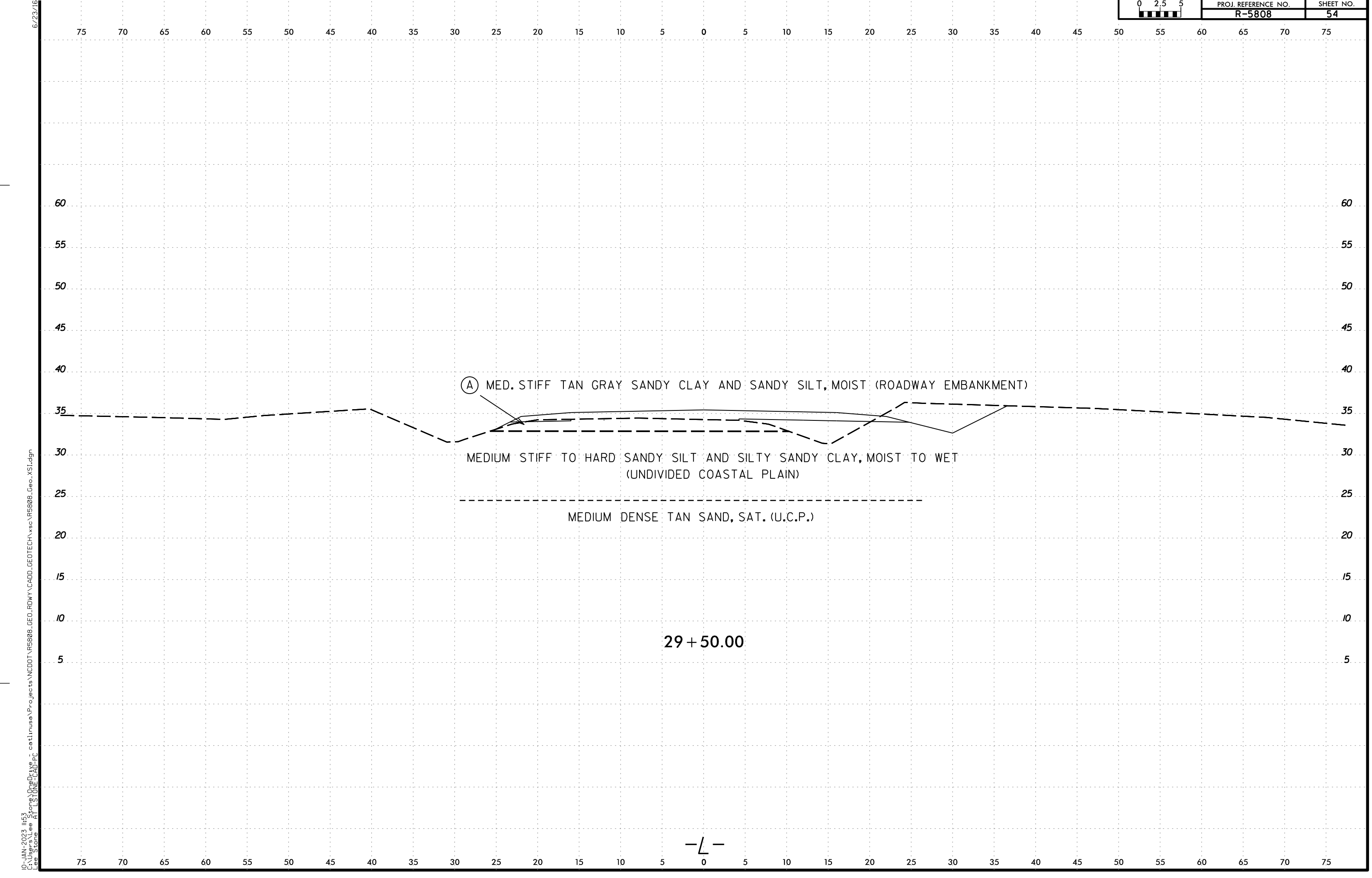
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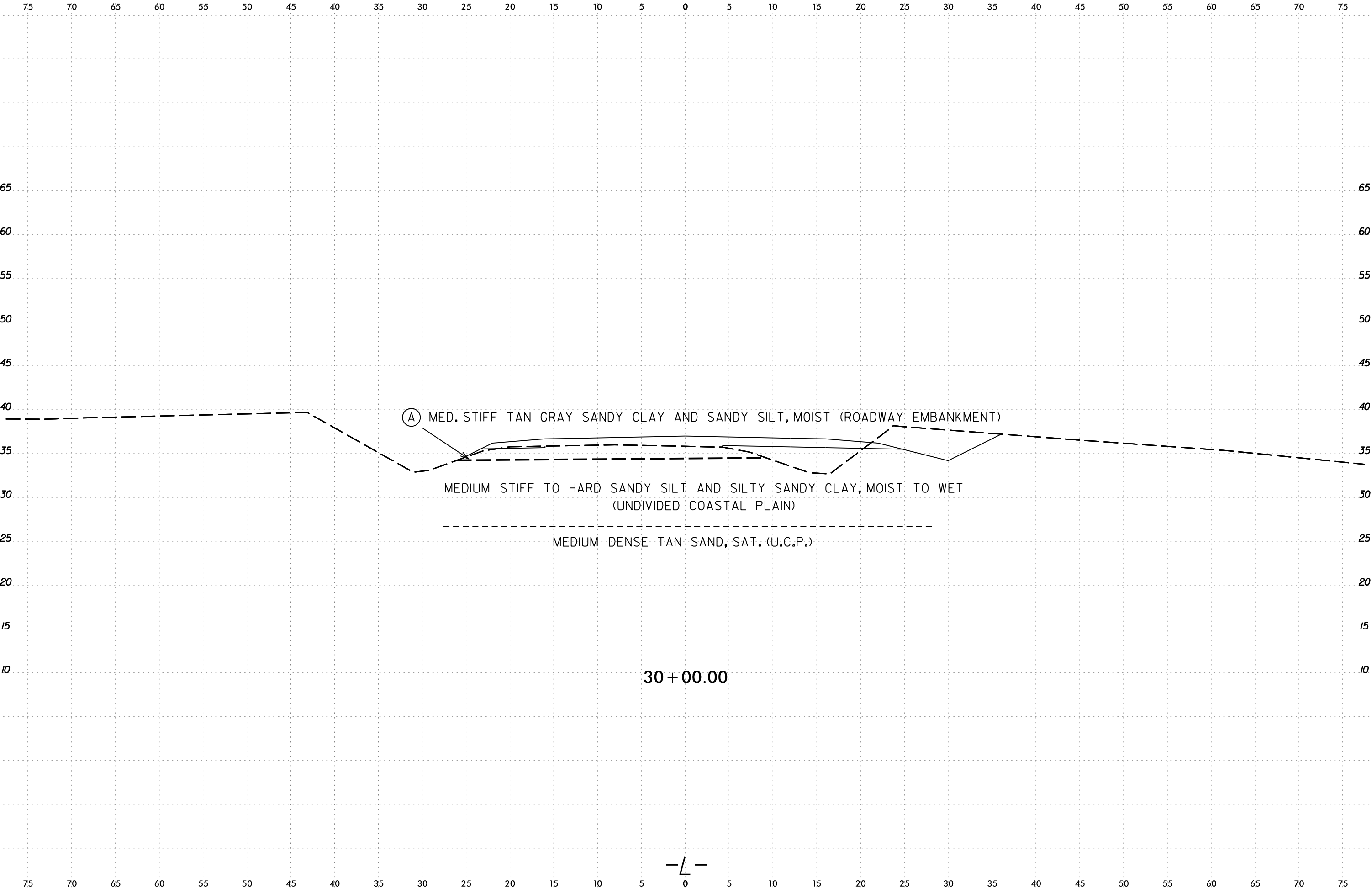
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Lee Stone AT LSTONE-CAD-PC

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	R-5808	55

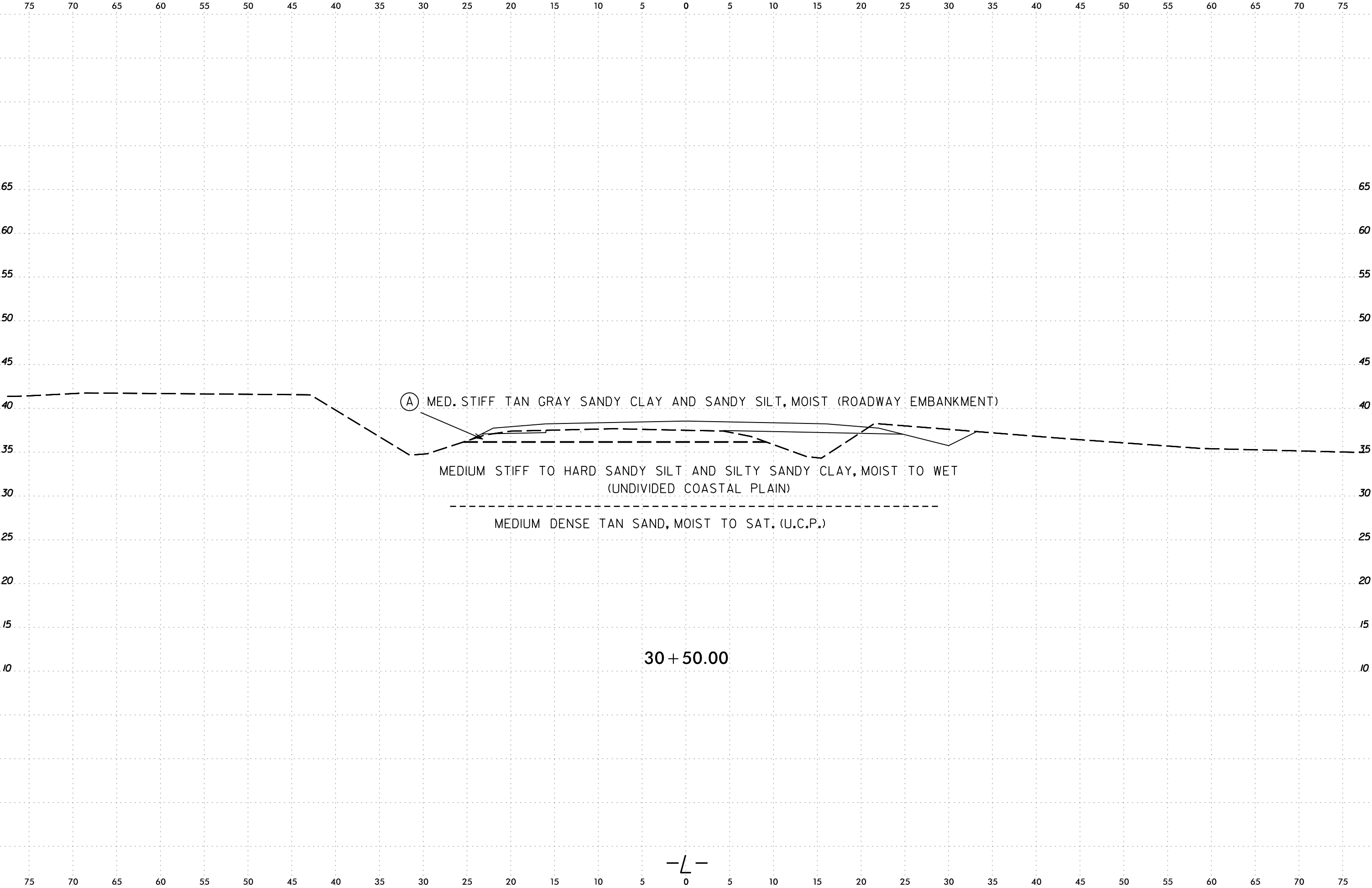


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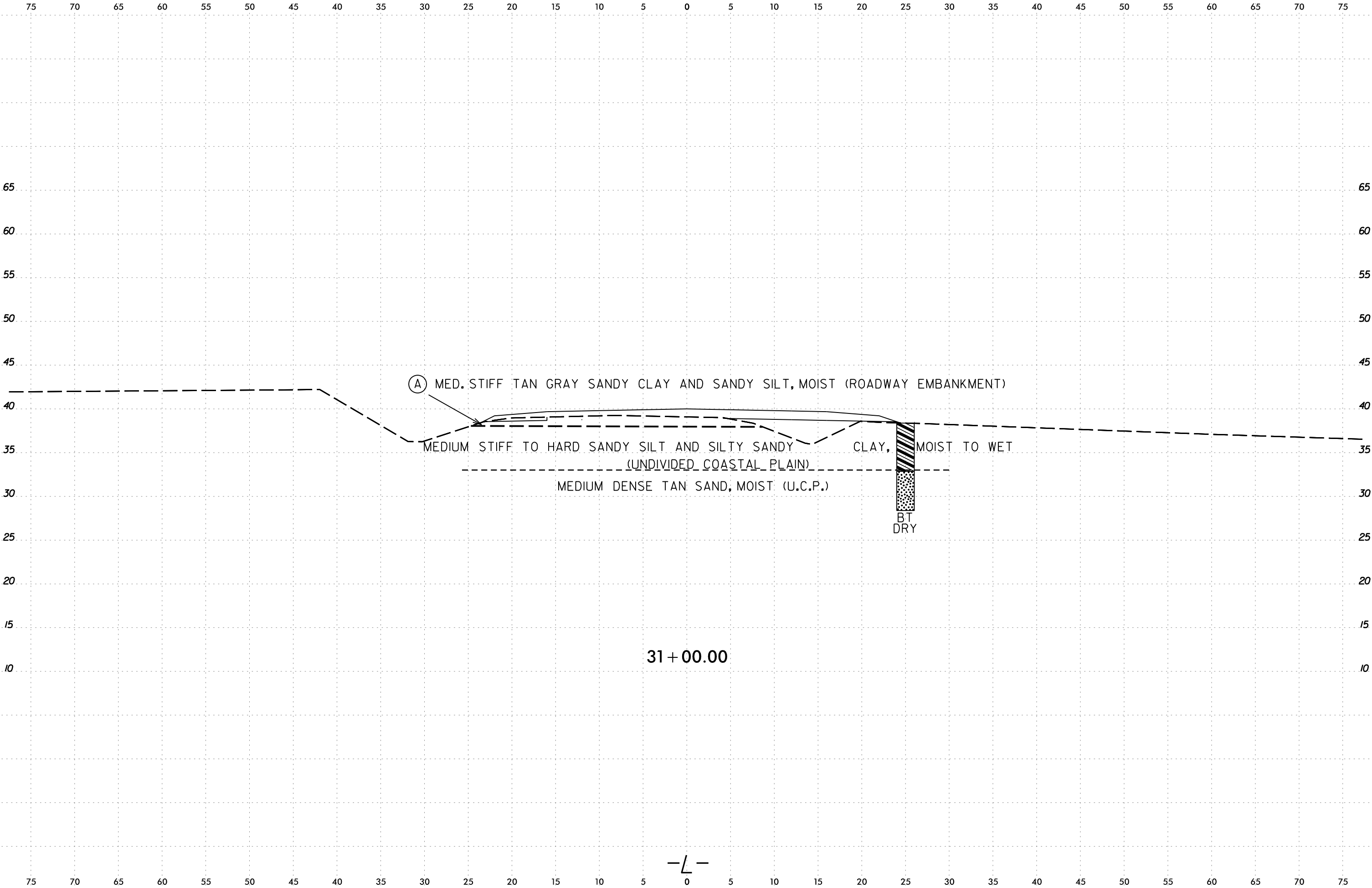
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	R-5808	56



6/23/16

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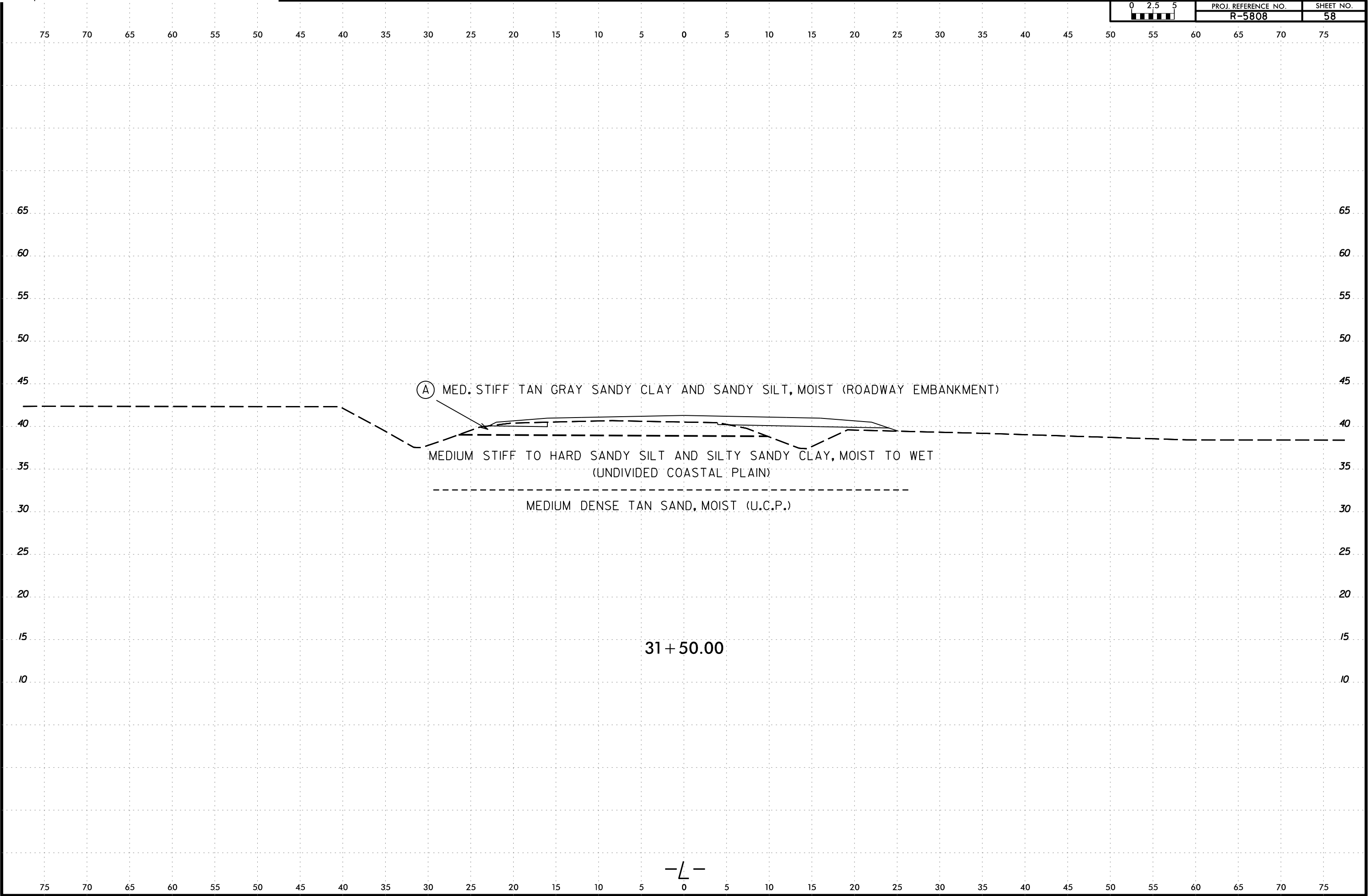
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

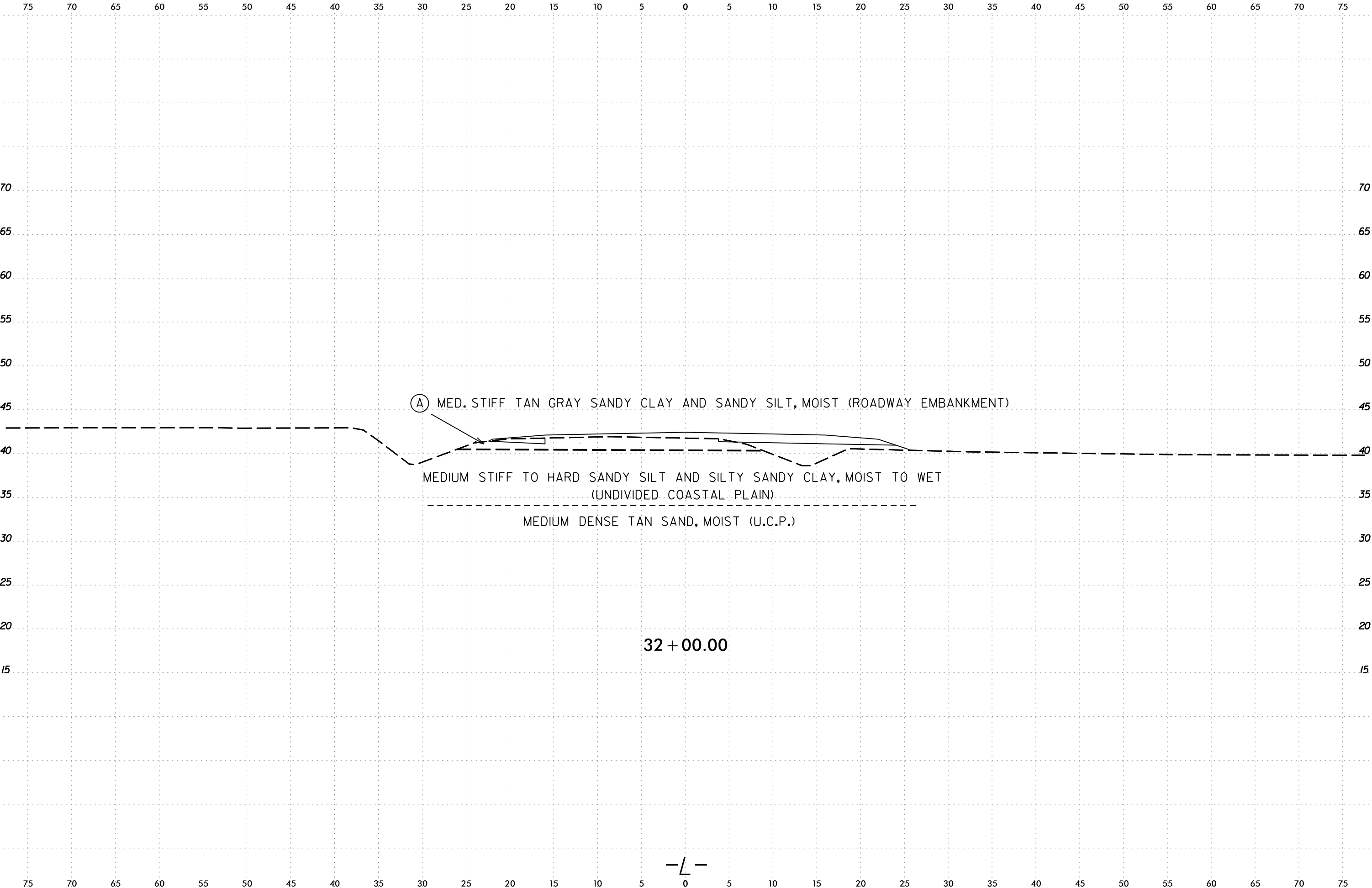
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	R-5808	58



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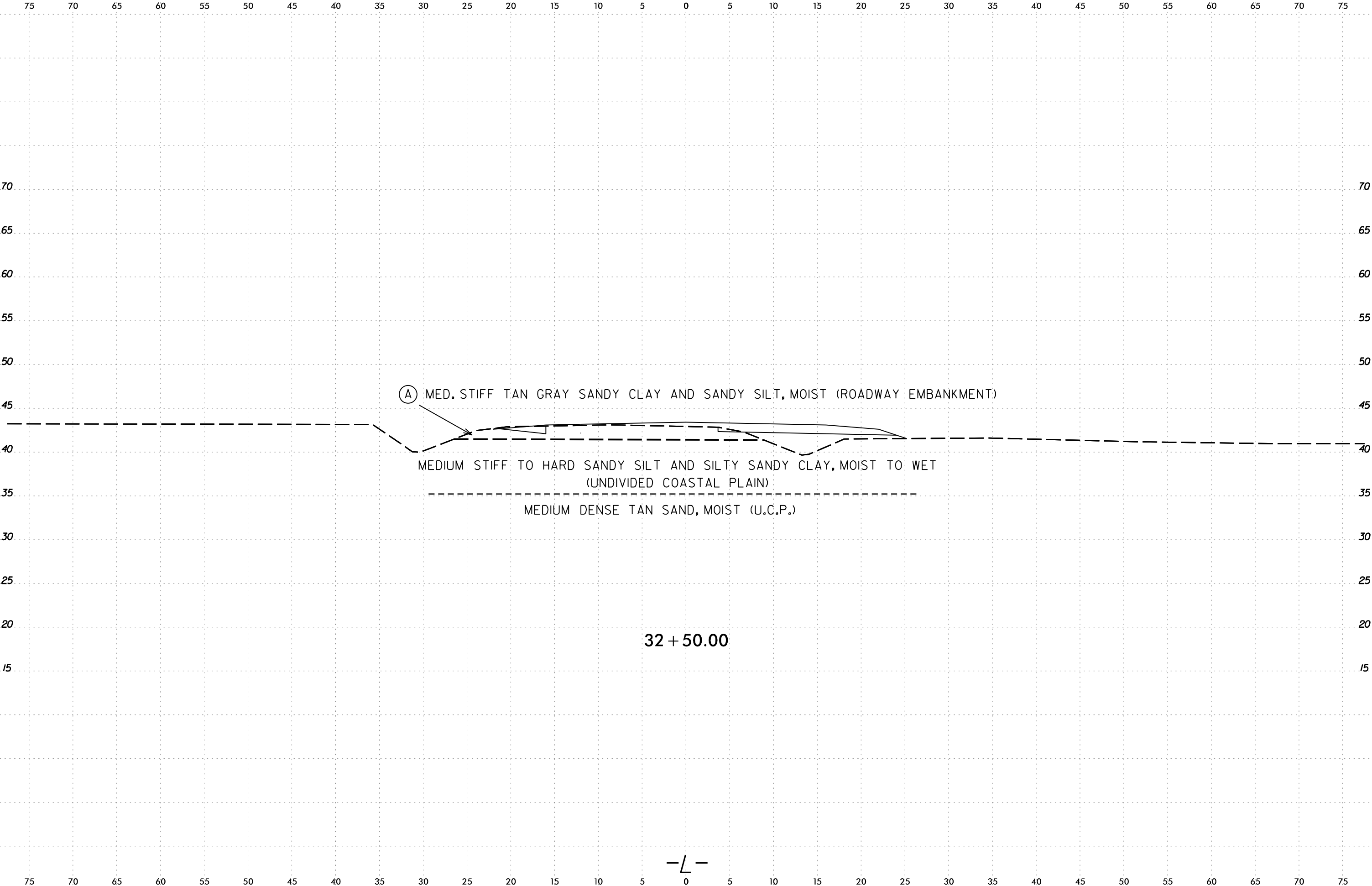
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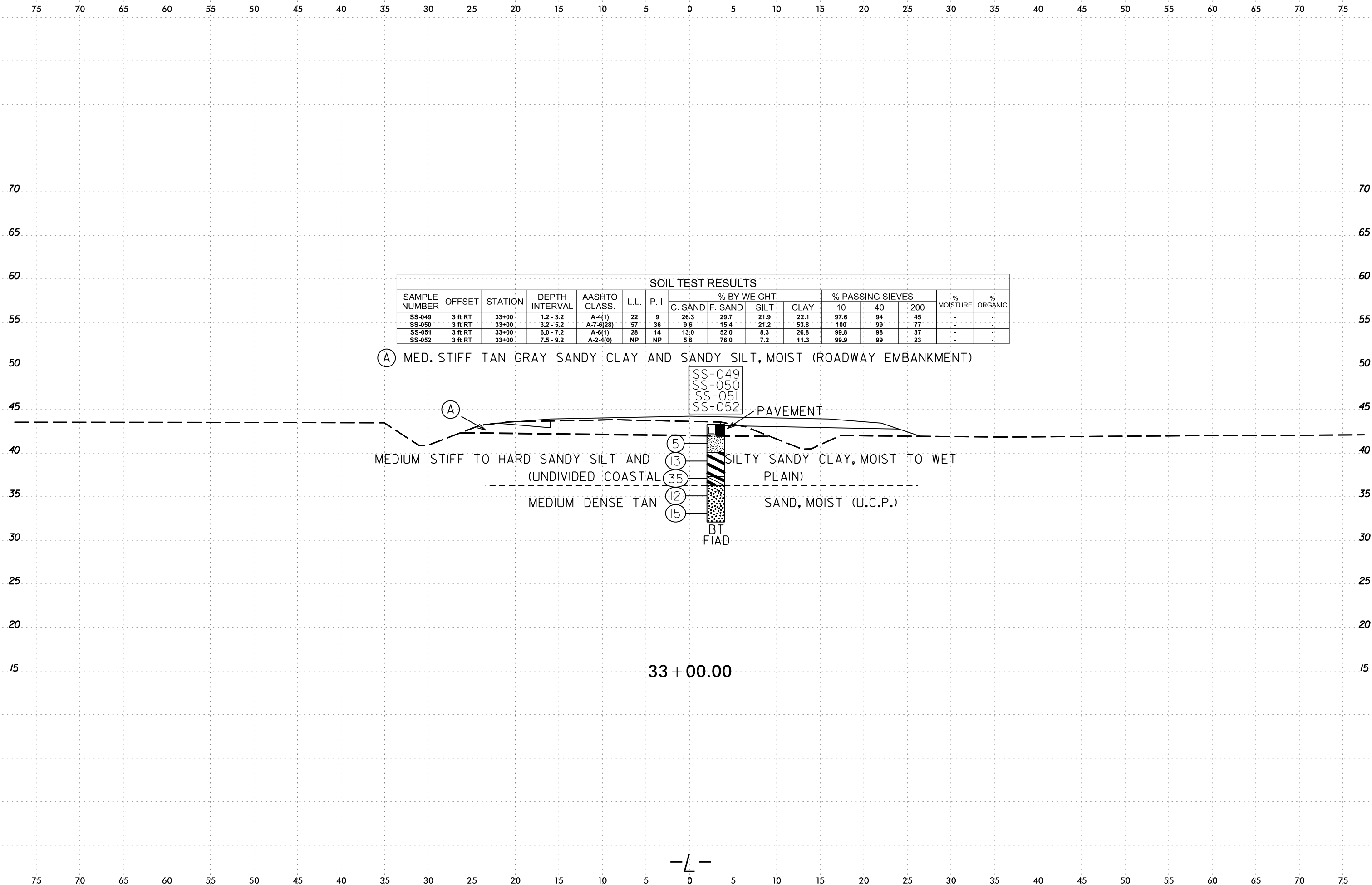


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Lee Stone AT LSTONE-CAD-PC

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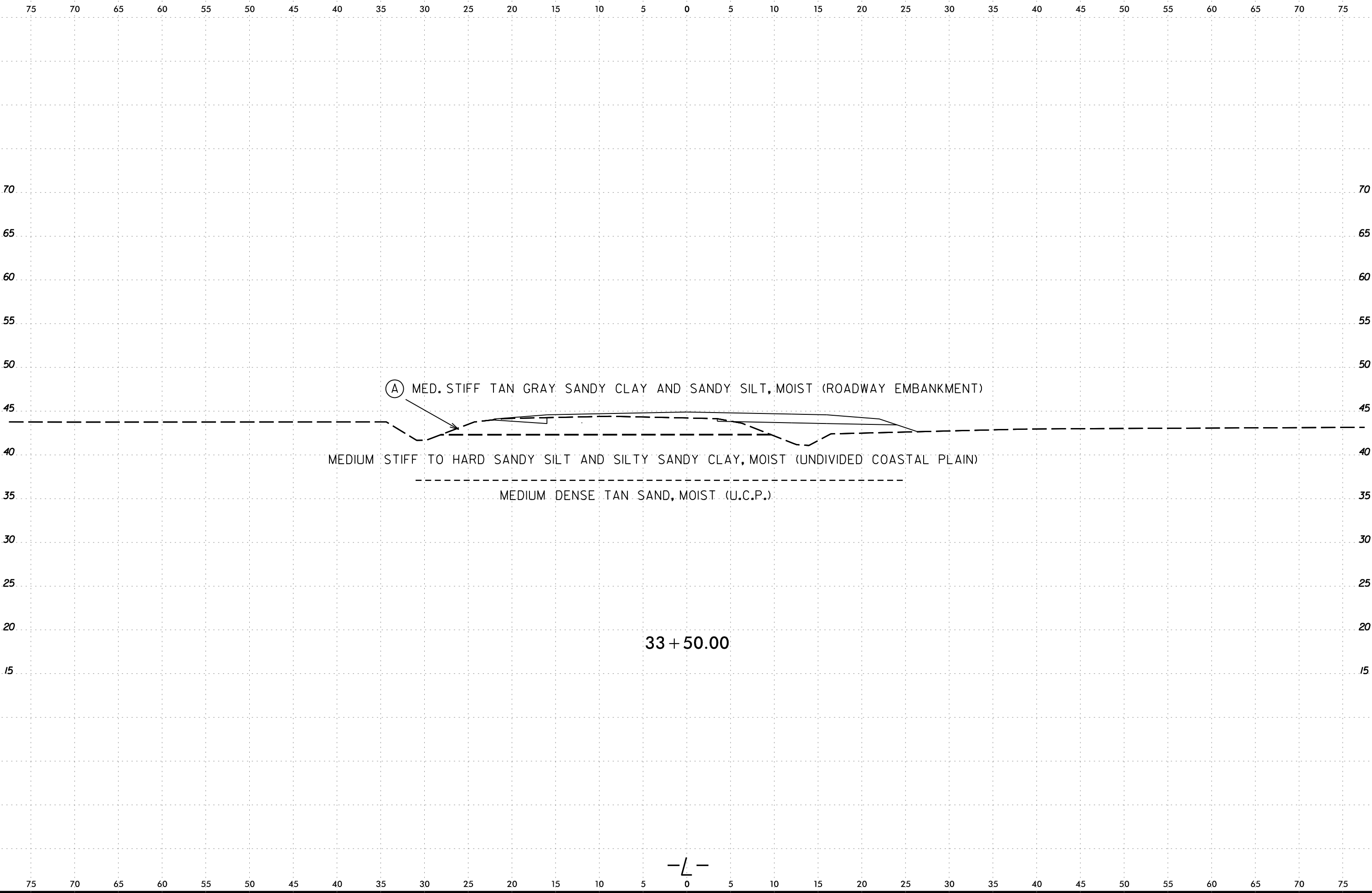




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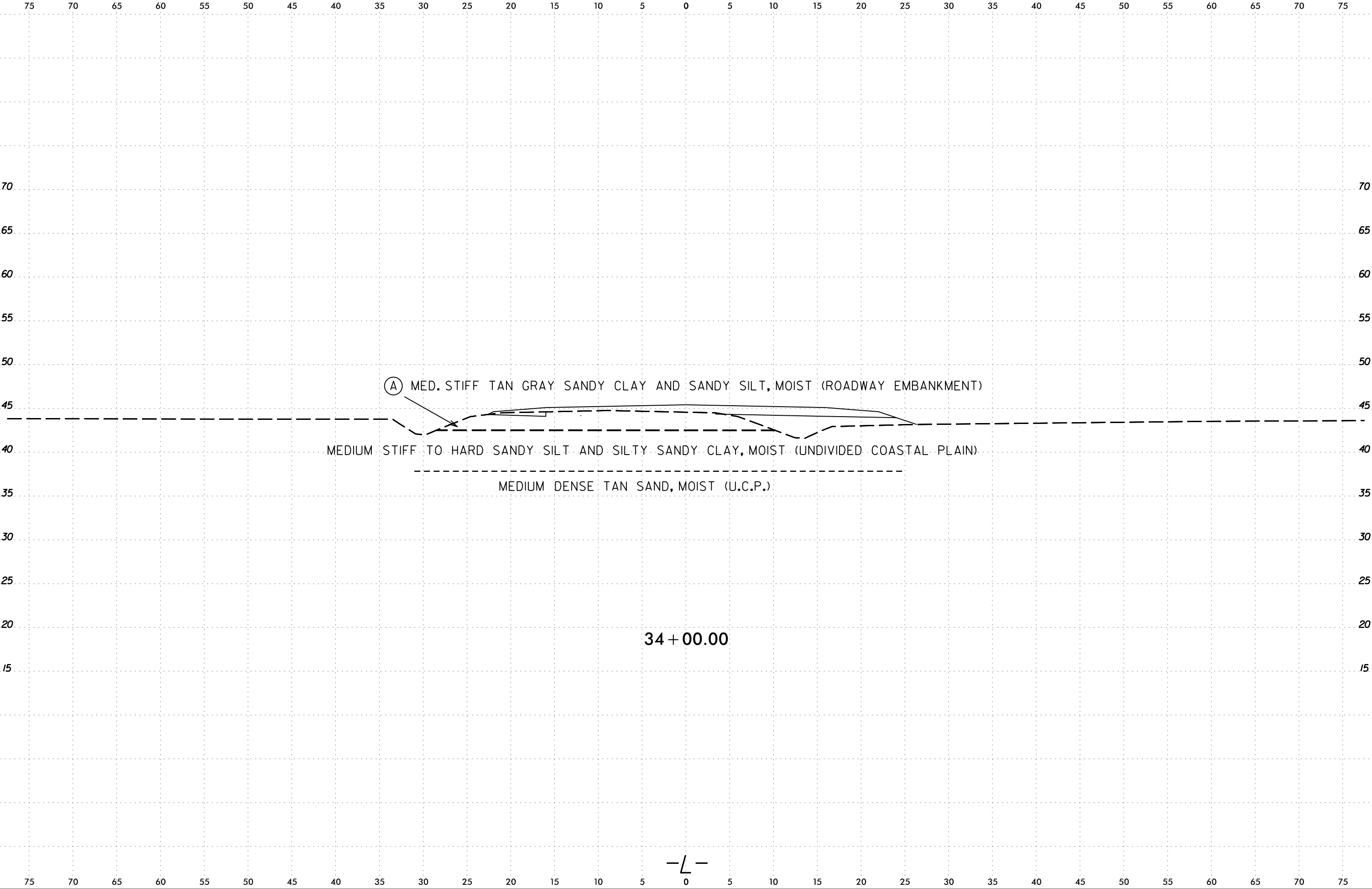
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Lee Stone AT LSTONE-CAD-PC

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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02.55	PROJ. REFERENCE NO.	SHEET NO.
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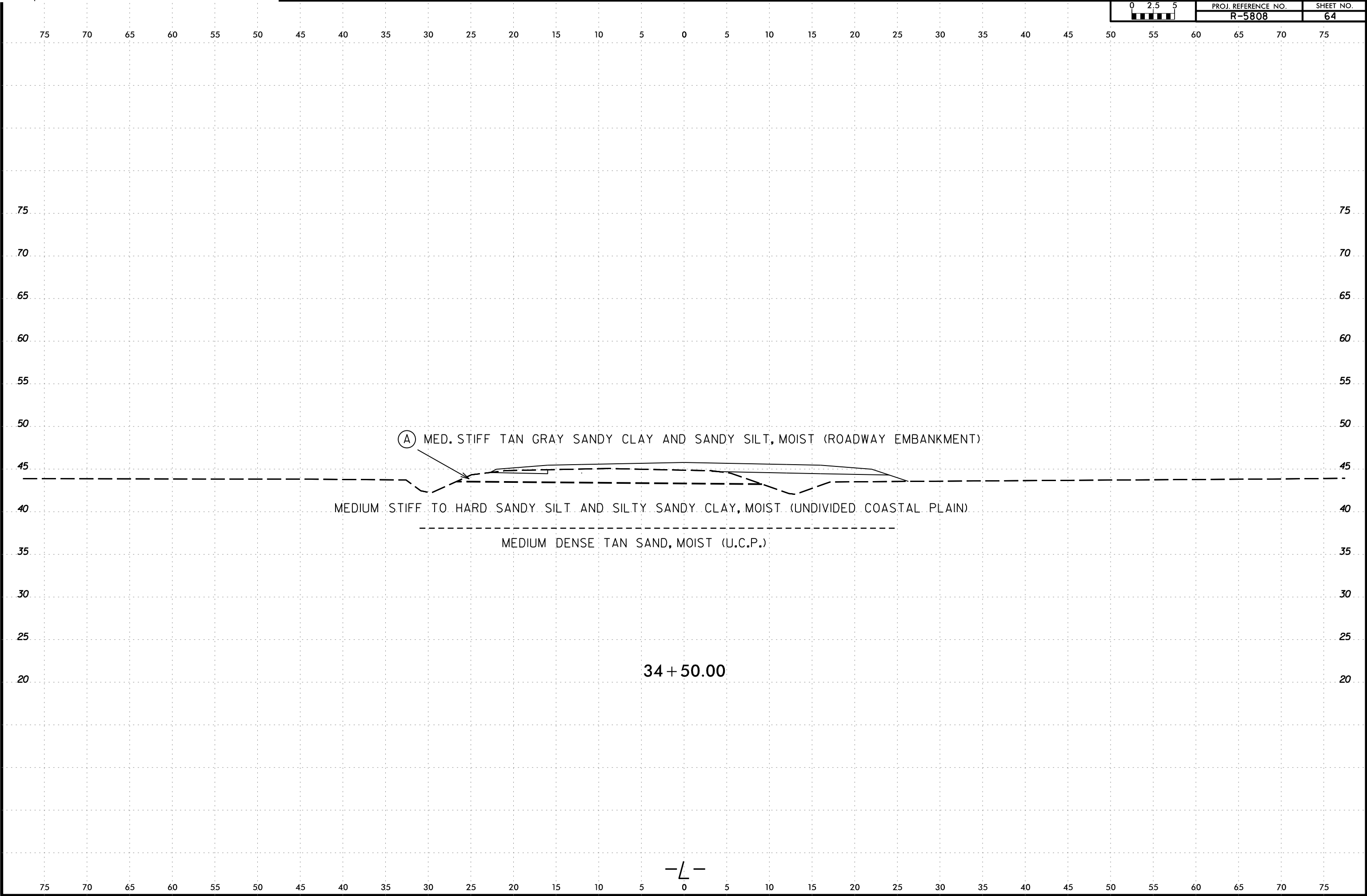


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Lee Stone AT LSTONE-CAD-PC

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Lee Stone AT LSTONE-CAD-PC

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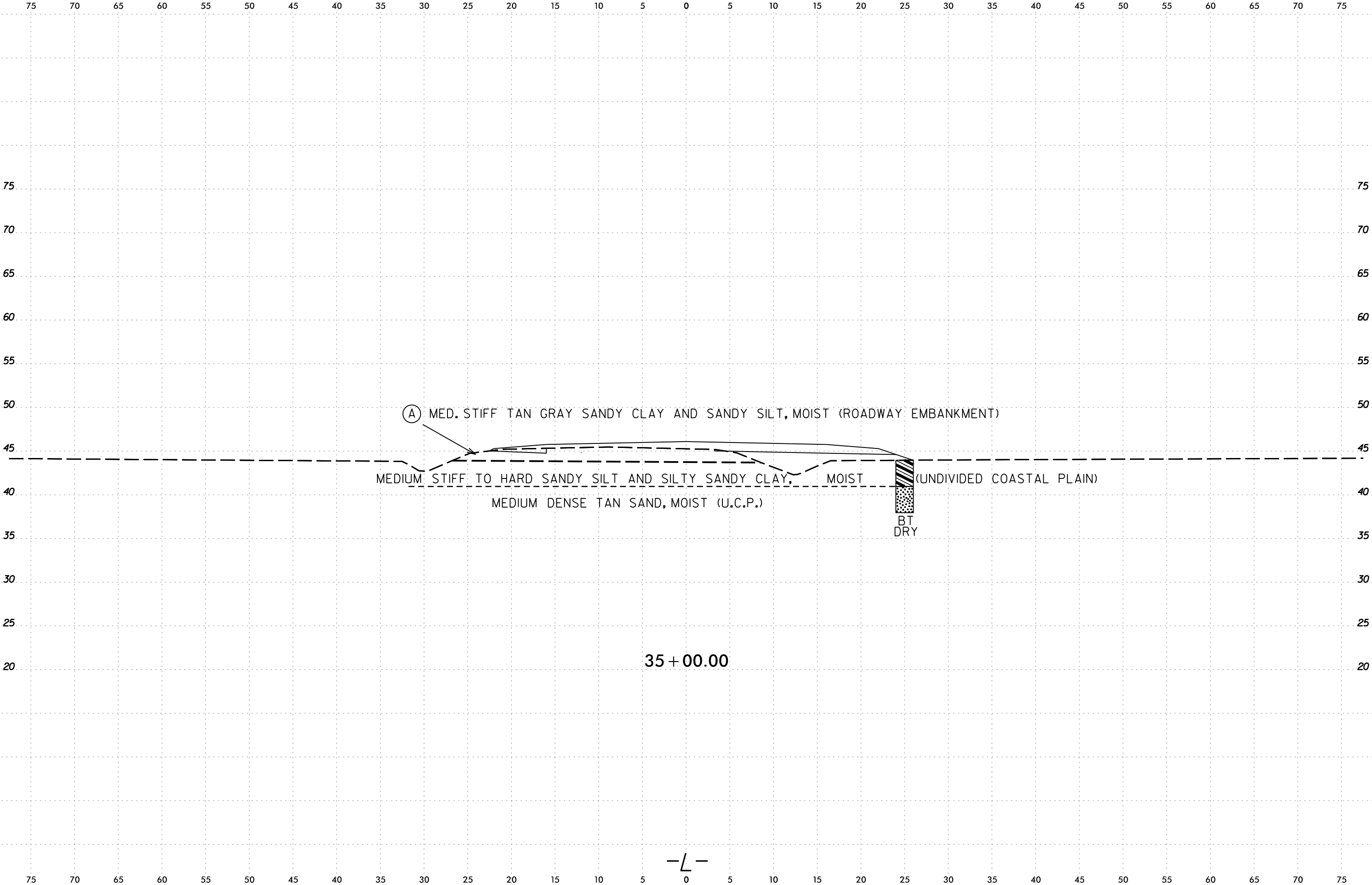


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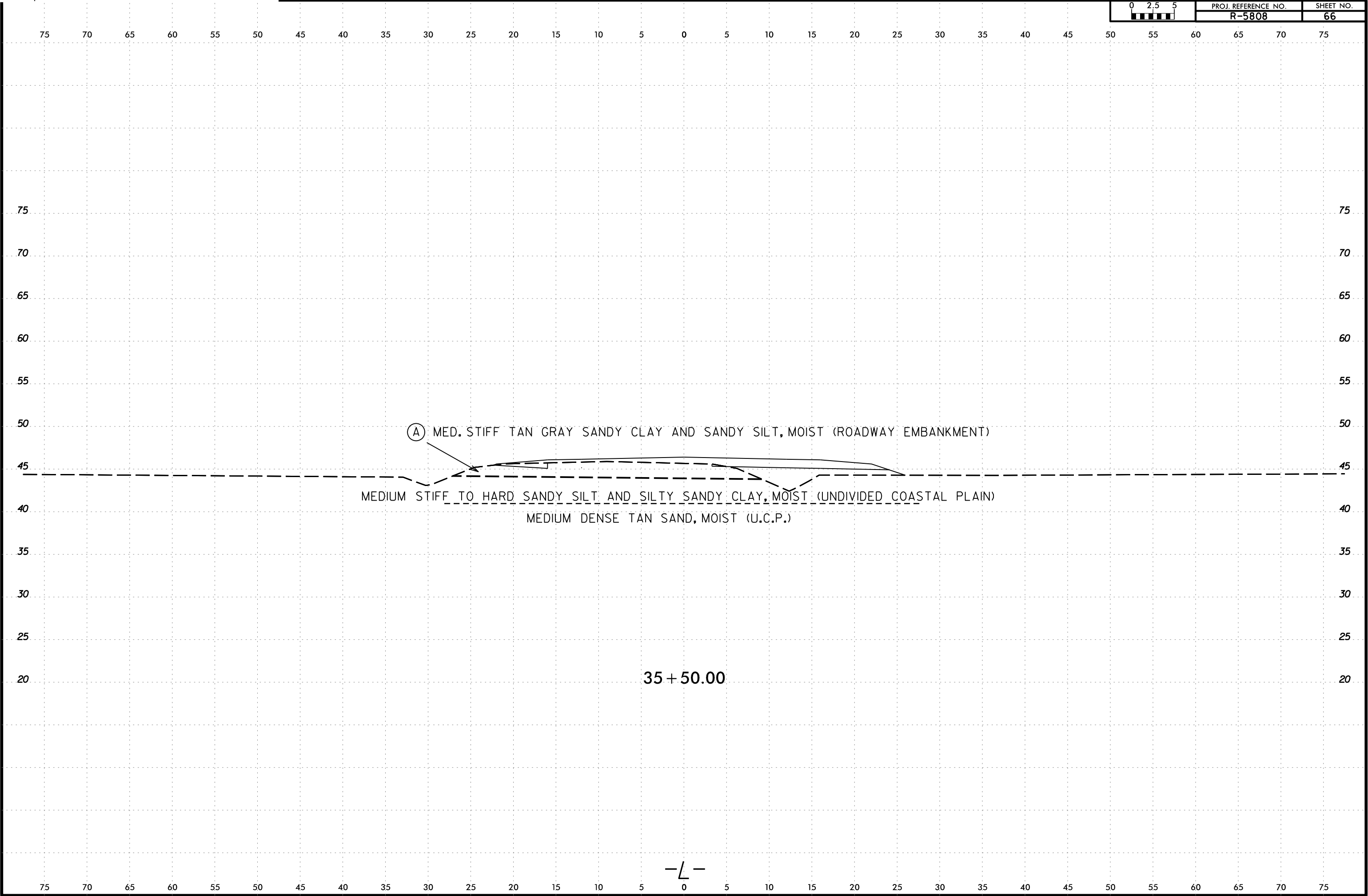
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	R-5808	65



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Lee Stone AT LSTONE-CAD-PC

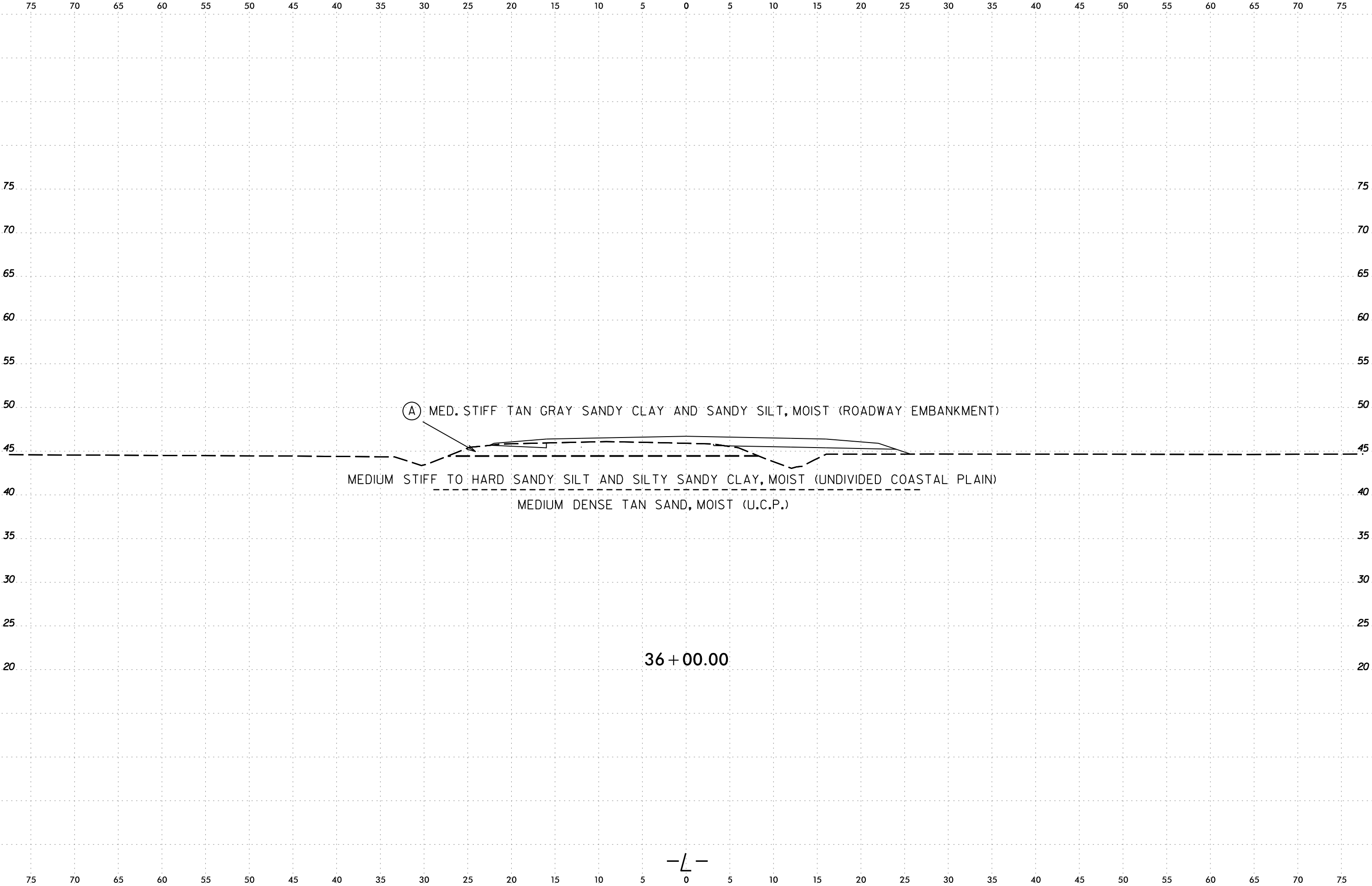
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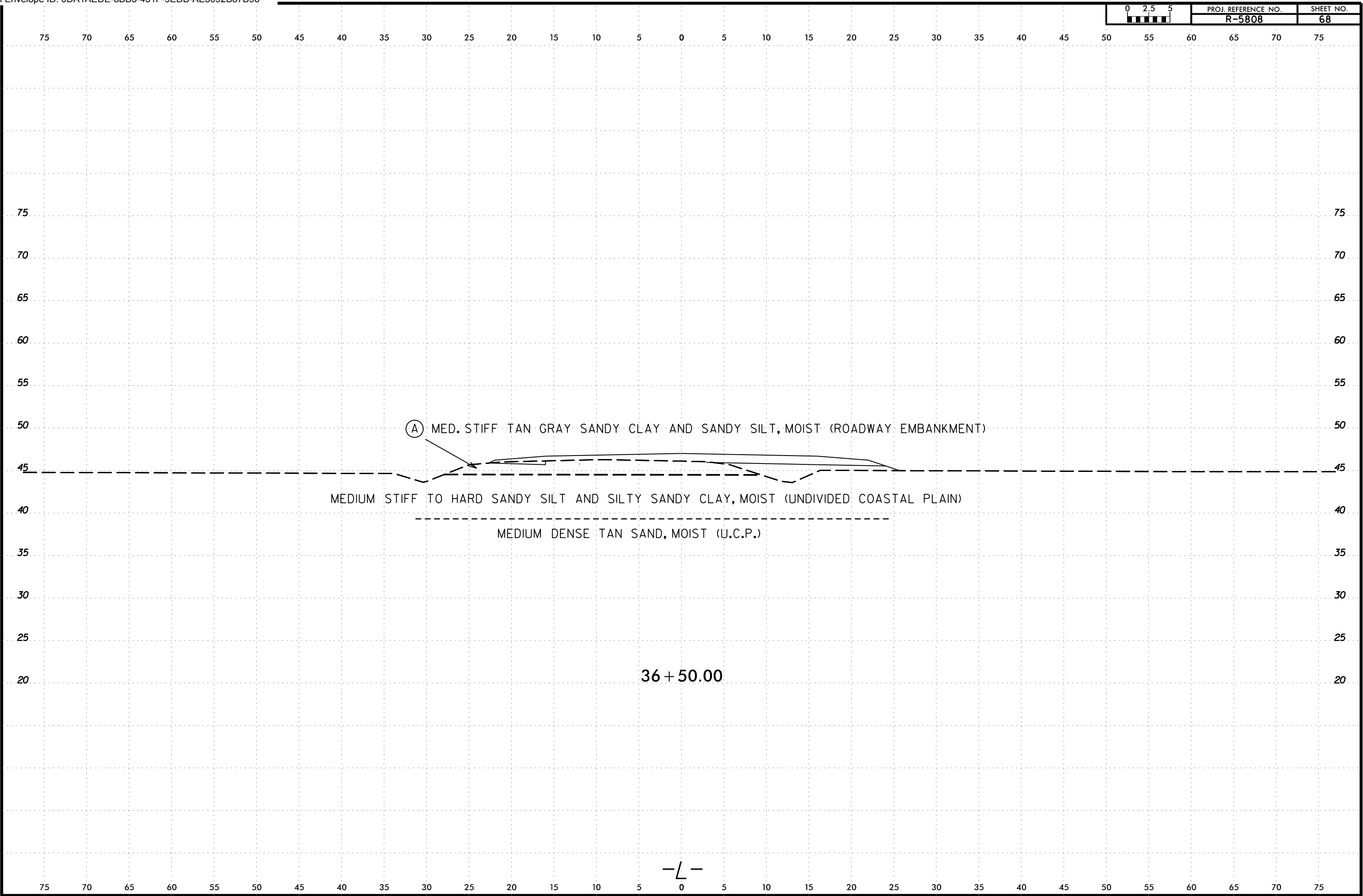


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PROJ. REFERENCE NO.	SHEET NO.
R-5808	67

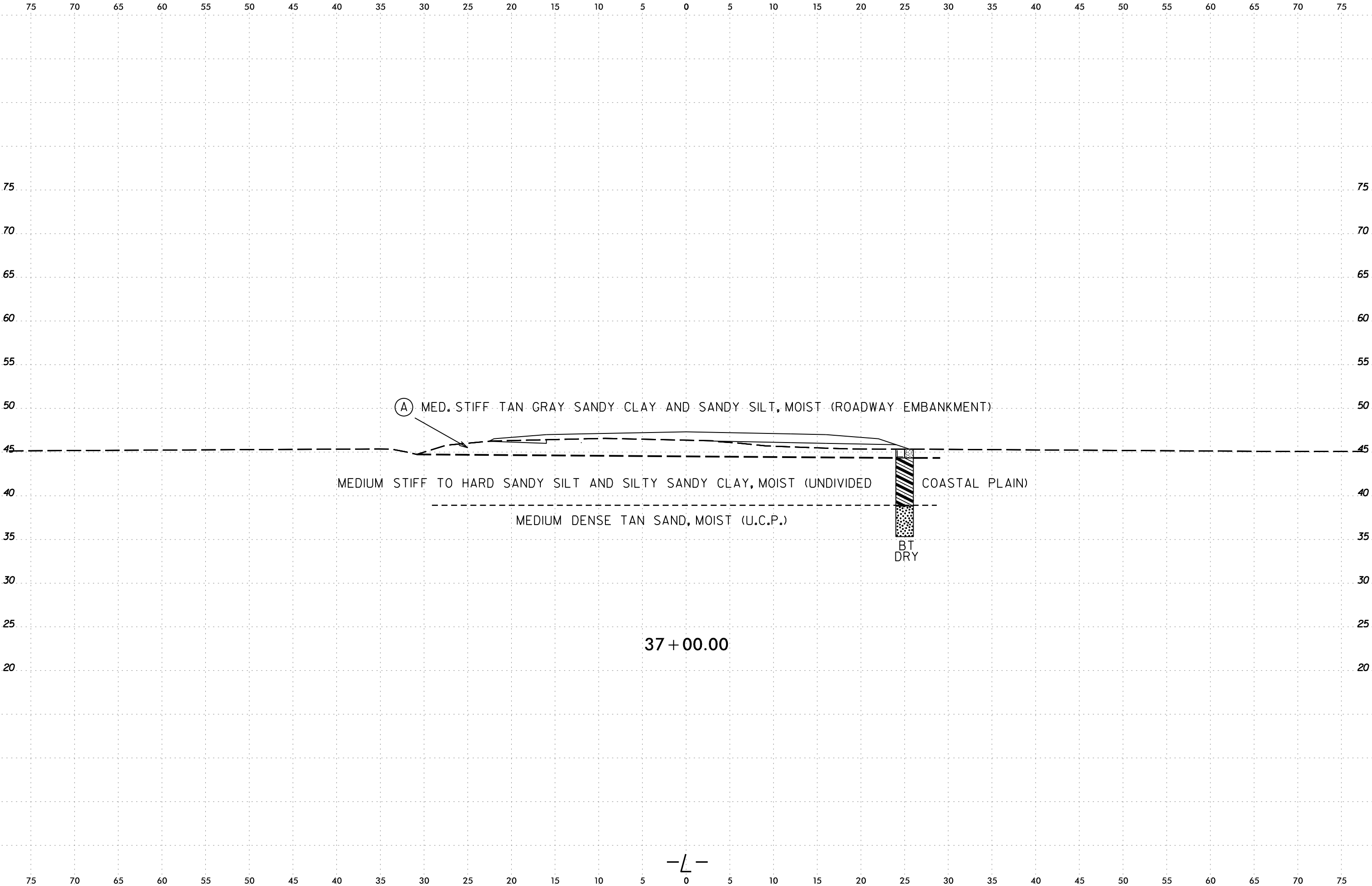




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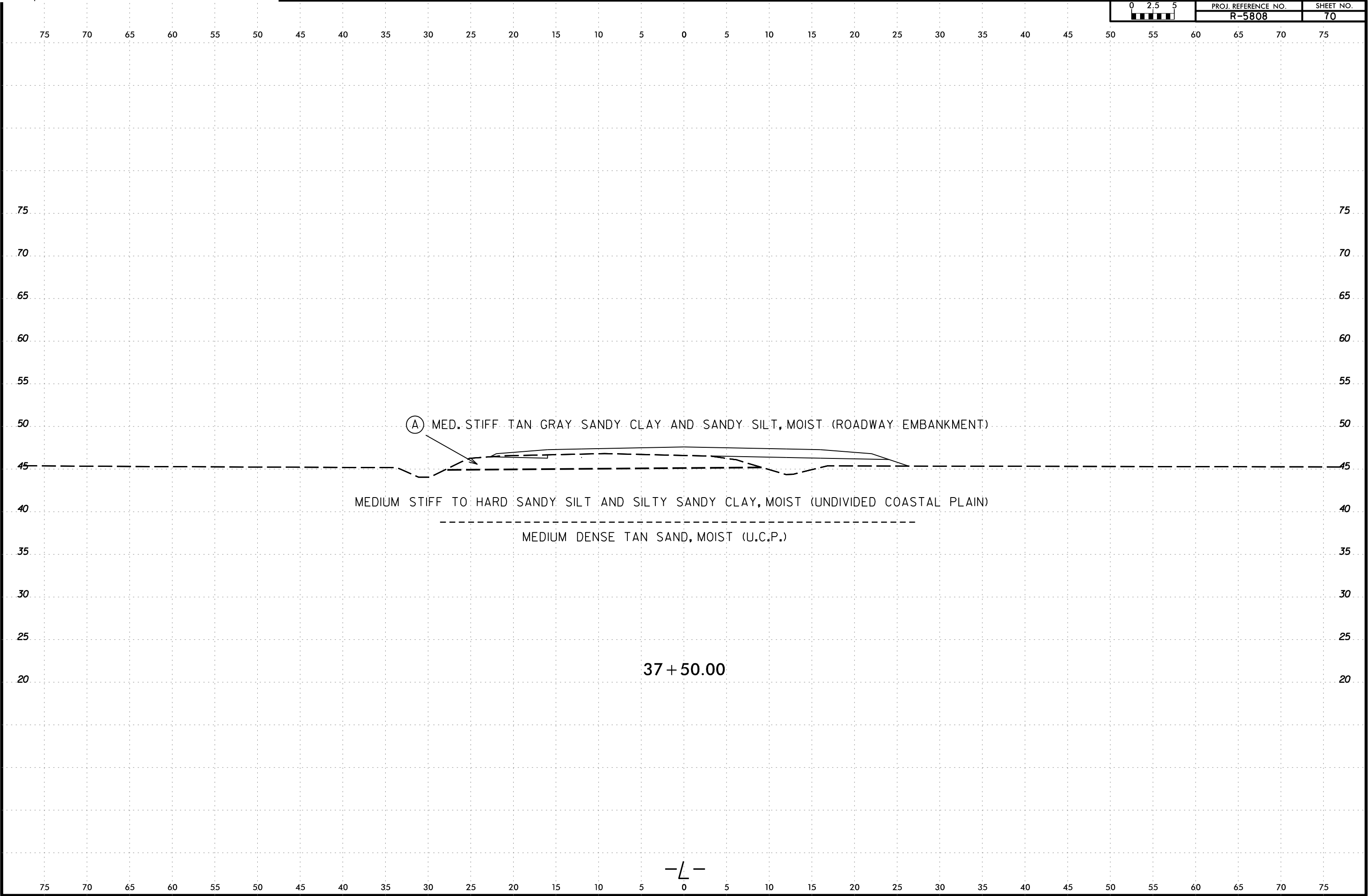
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6/23/16

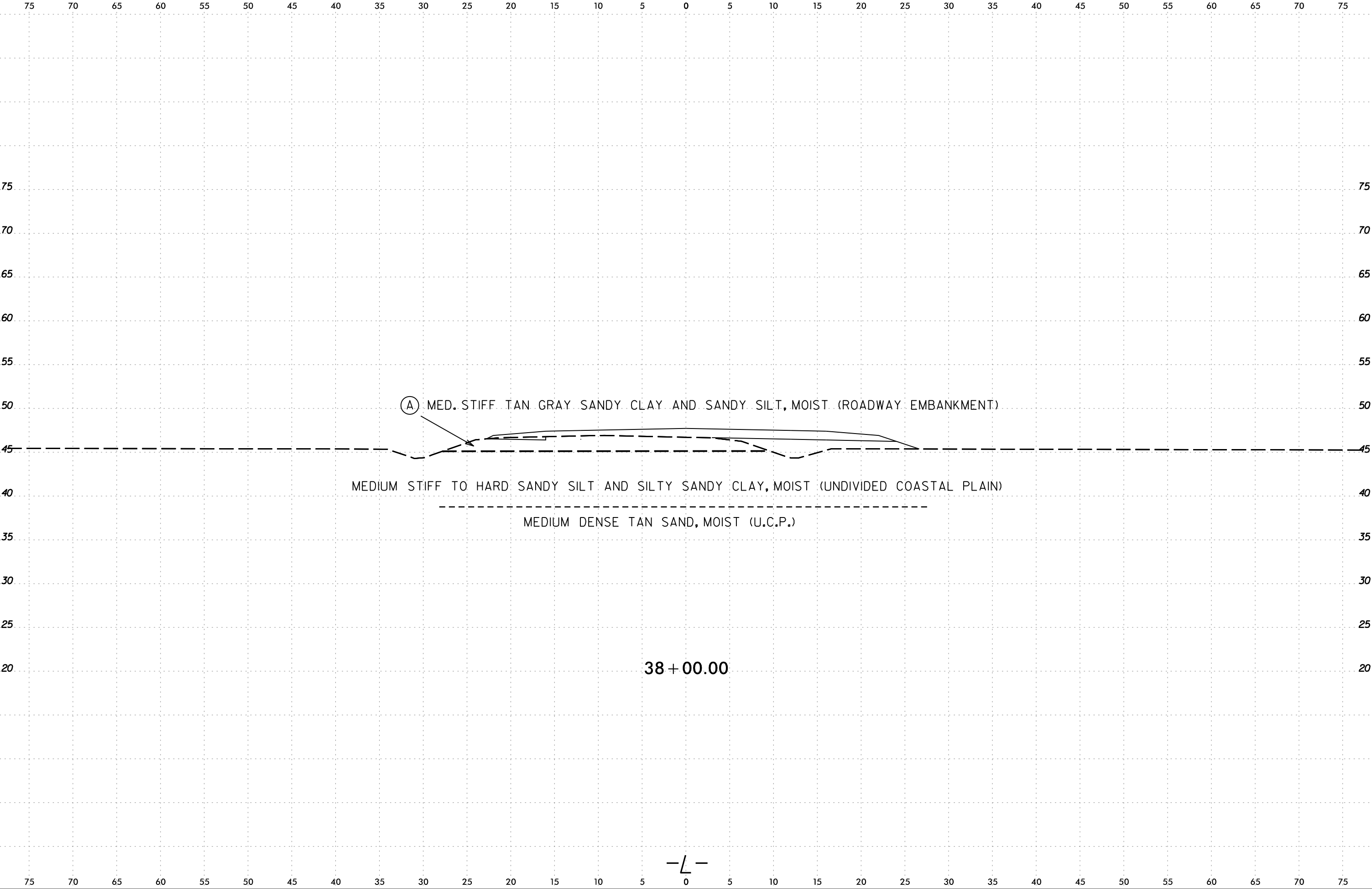
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	70

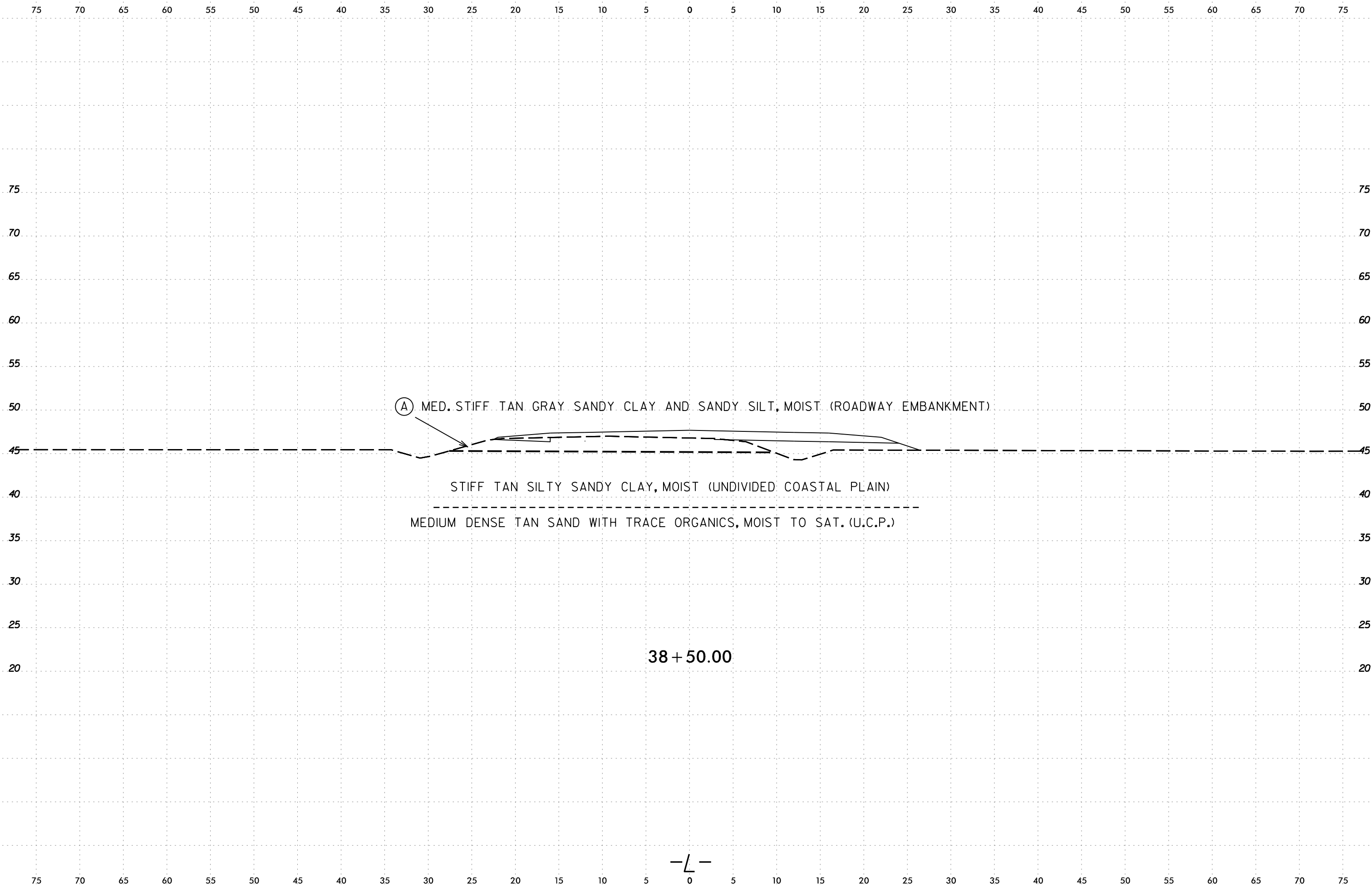


6/23/16

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	R-5808	71



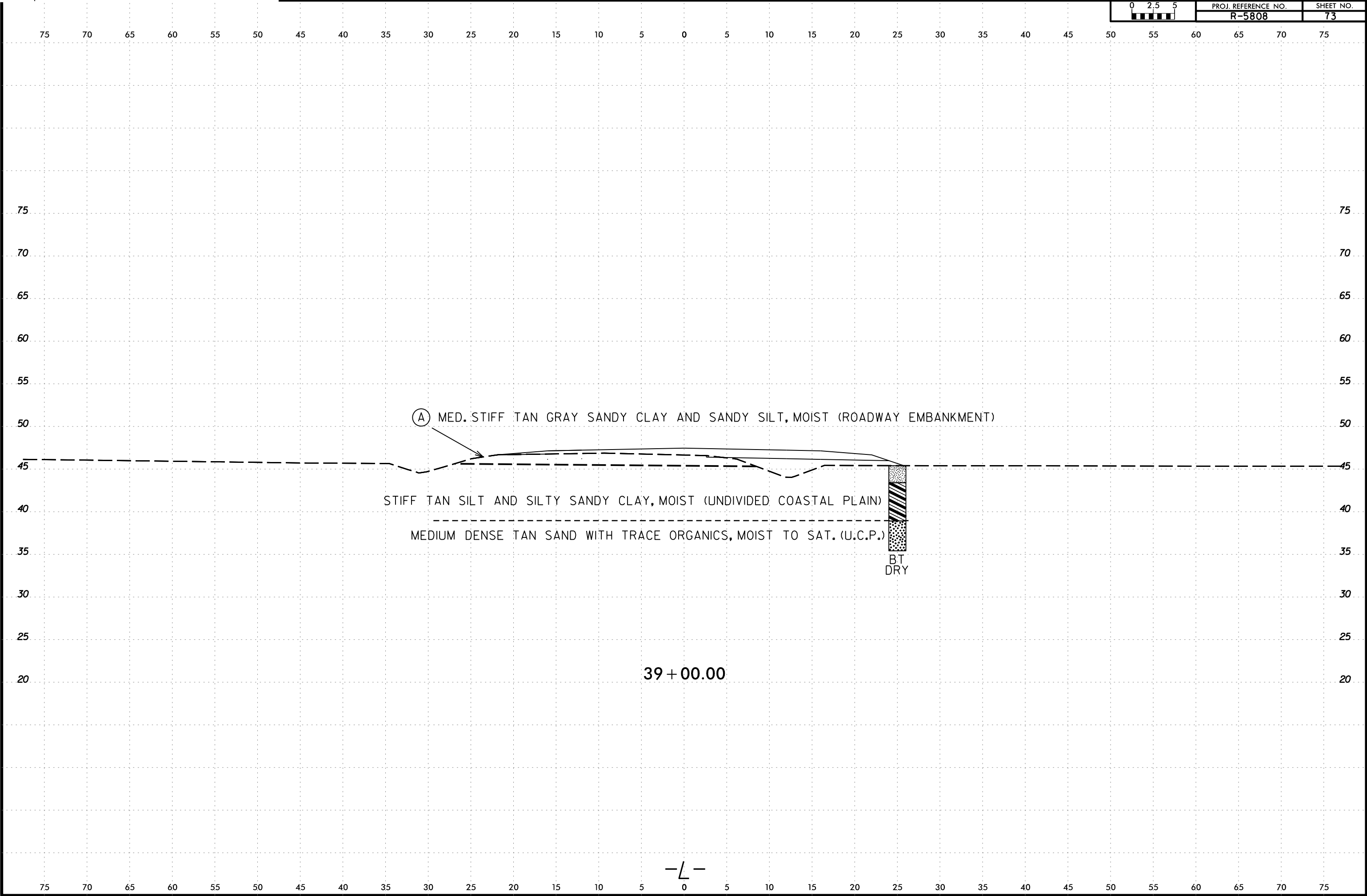
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Lee Stone AT LSTONE-CAD-PC



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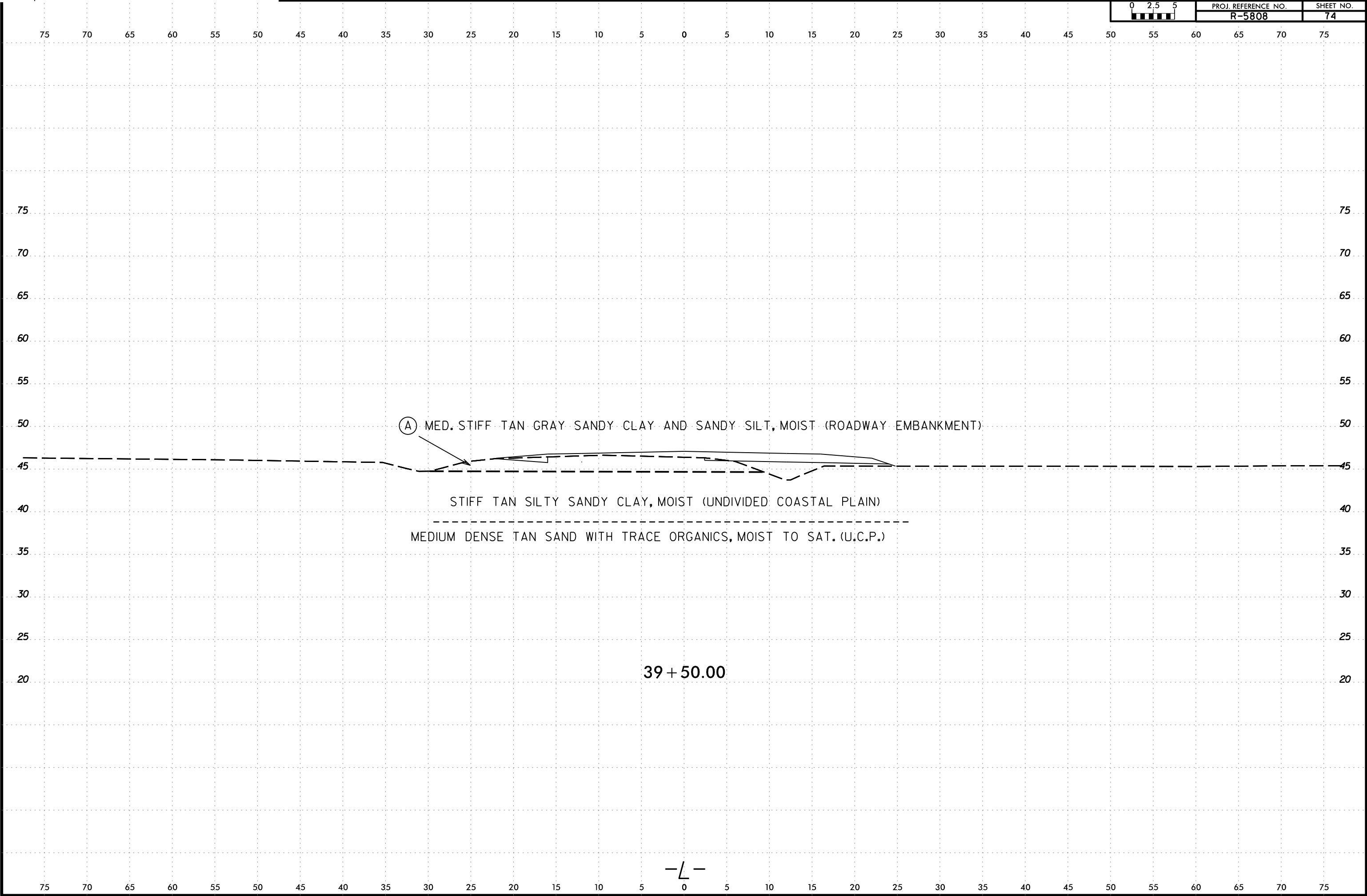
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0 2.5 5	R-5808	73



6/23/16

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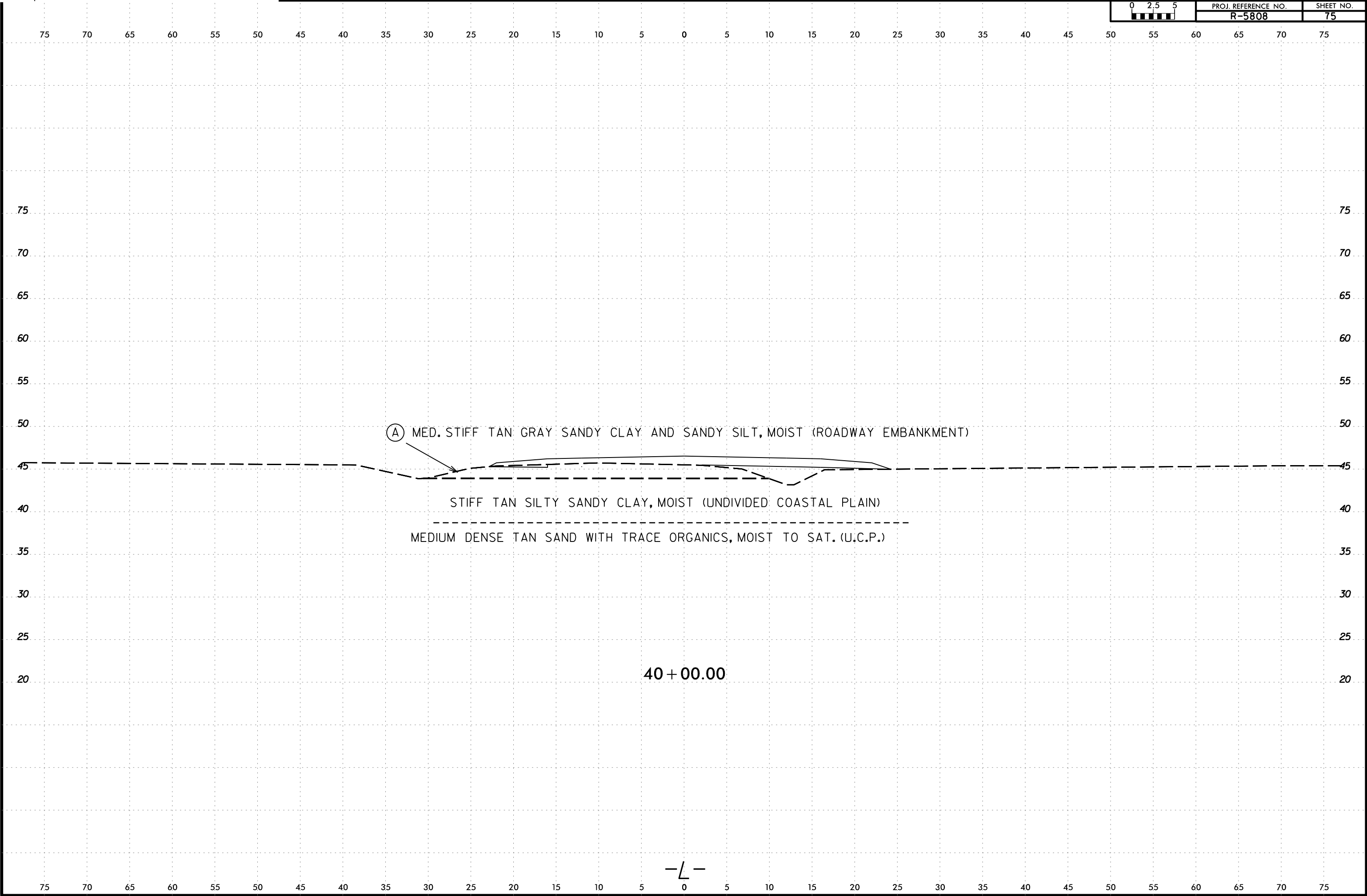
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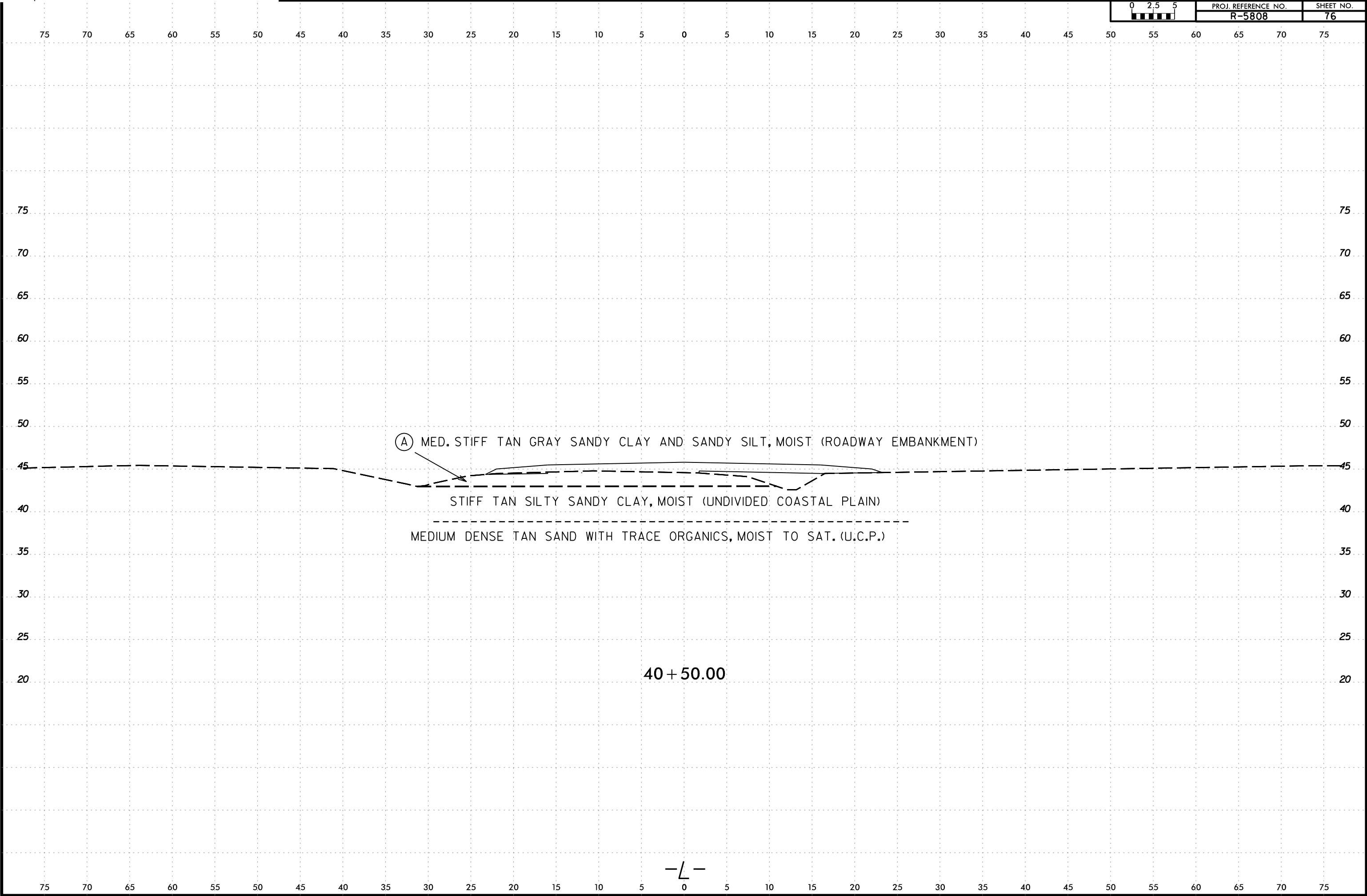
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	76



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PROJ. REFERENCE NO.
R-5808

SHEET NO.
77

SOIL TEST RESULTS													
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES		
							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)

(A)

SS-053
SS-054
SS-055

STIFF TAN SILTY SANDY CLAY, MOIST

(UNDIVIDED COASTAL PLAIN)

MEDIUM DENSE TAN SAND WITH TRACE ORGANICS,

MOIST TO SAT. (U.C.P.)

BT
DRY

41 + 00.00

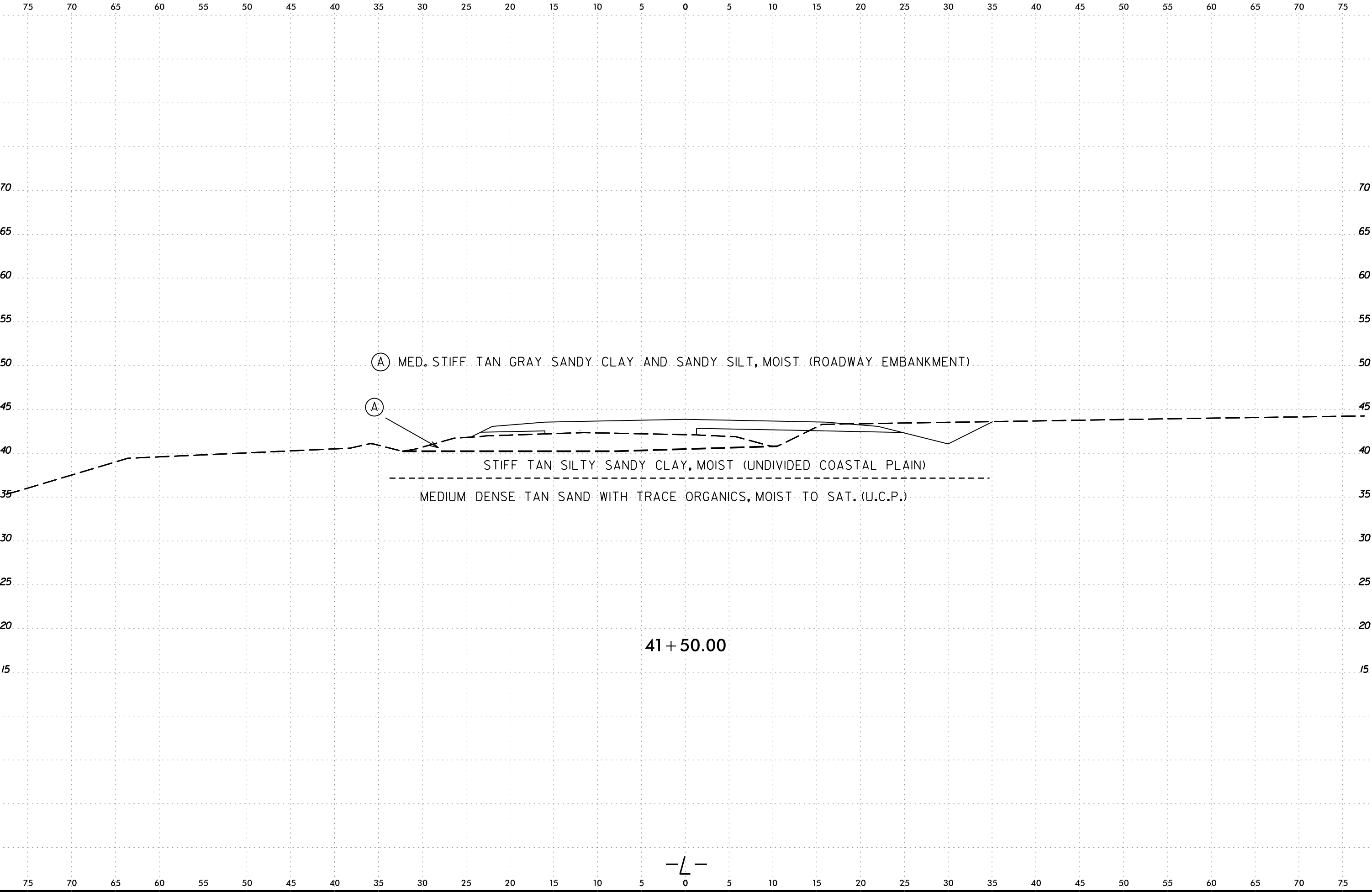
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Lee Stone AT LSTONE-CAD-PC

6/23/16

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Lee Stone AT LSTONE-CAD-PC

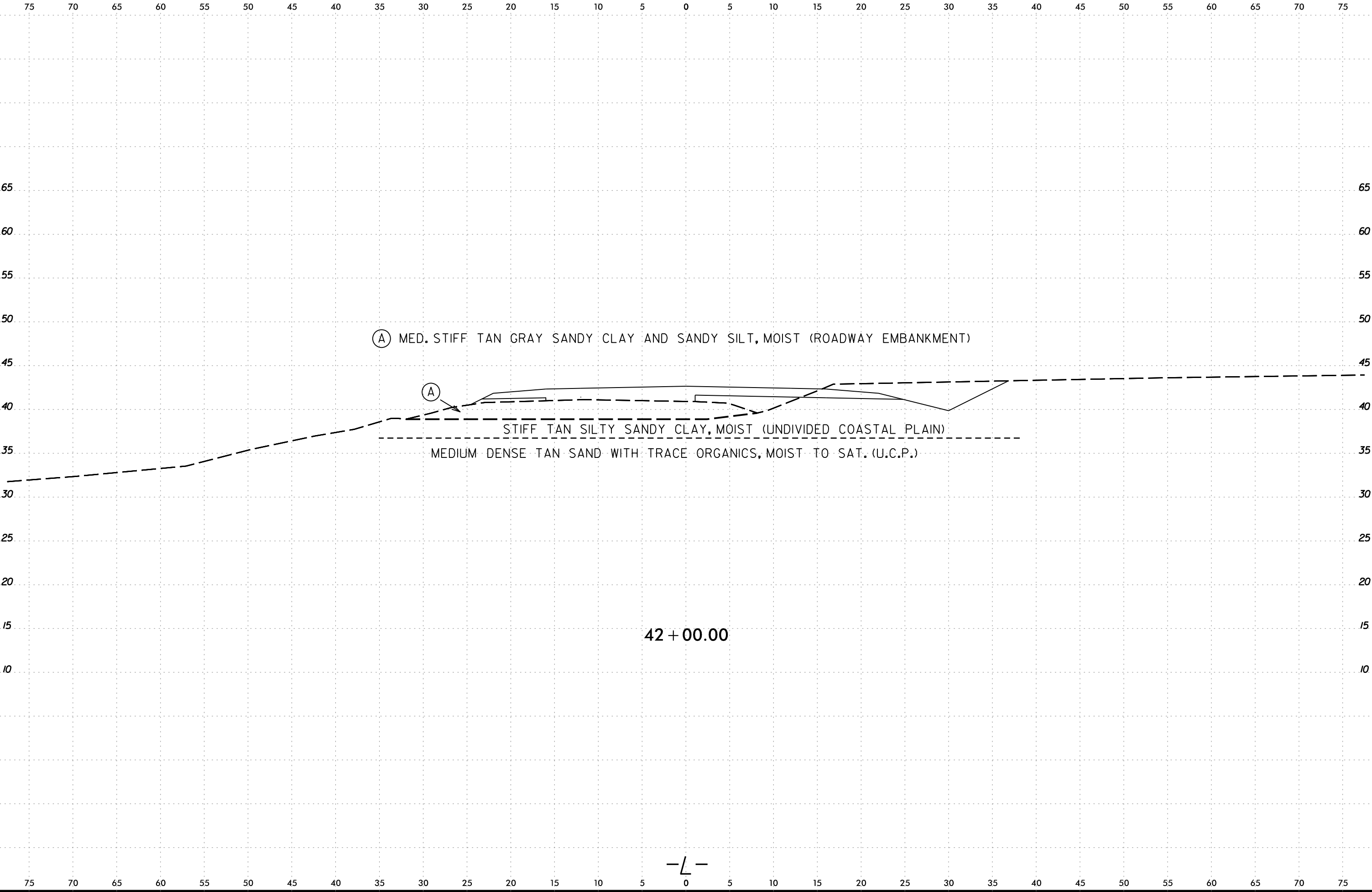
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	R-5808	78



6/23/16

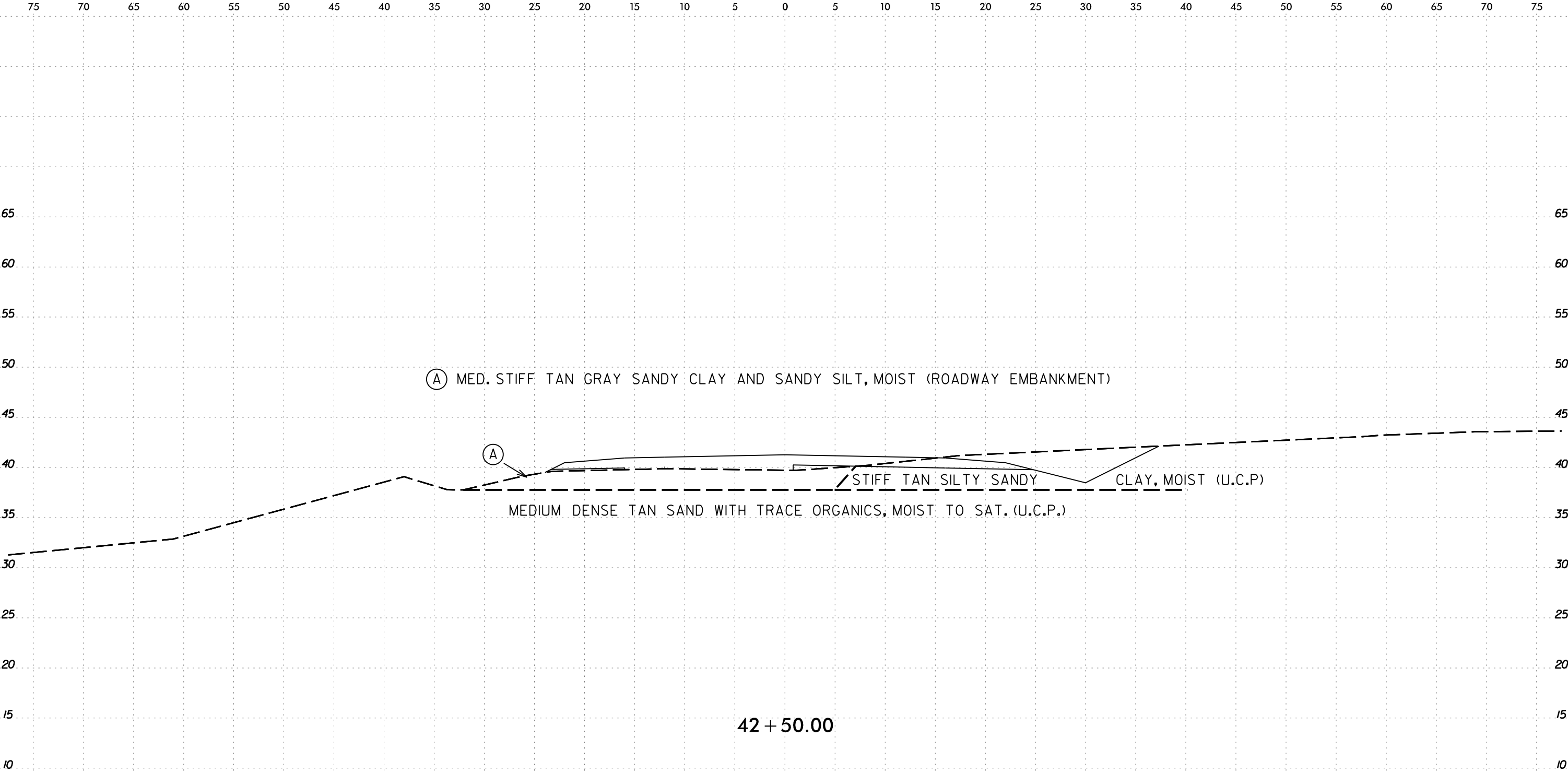
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	79



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	80



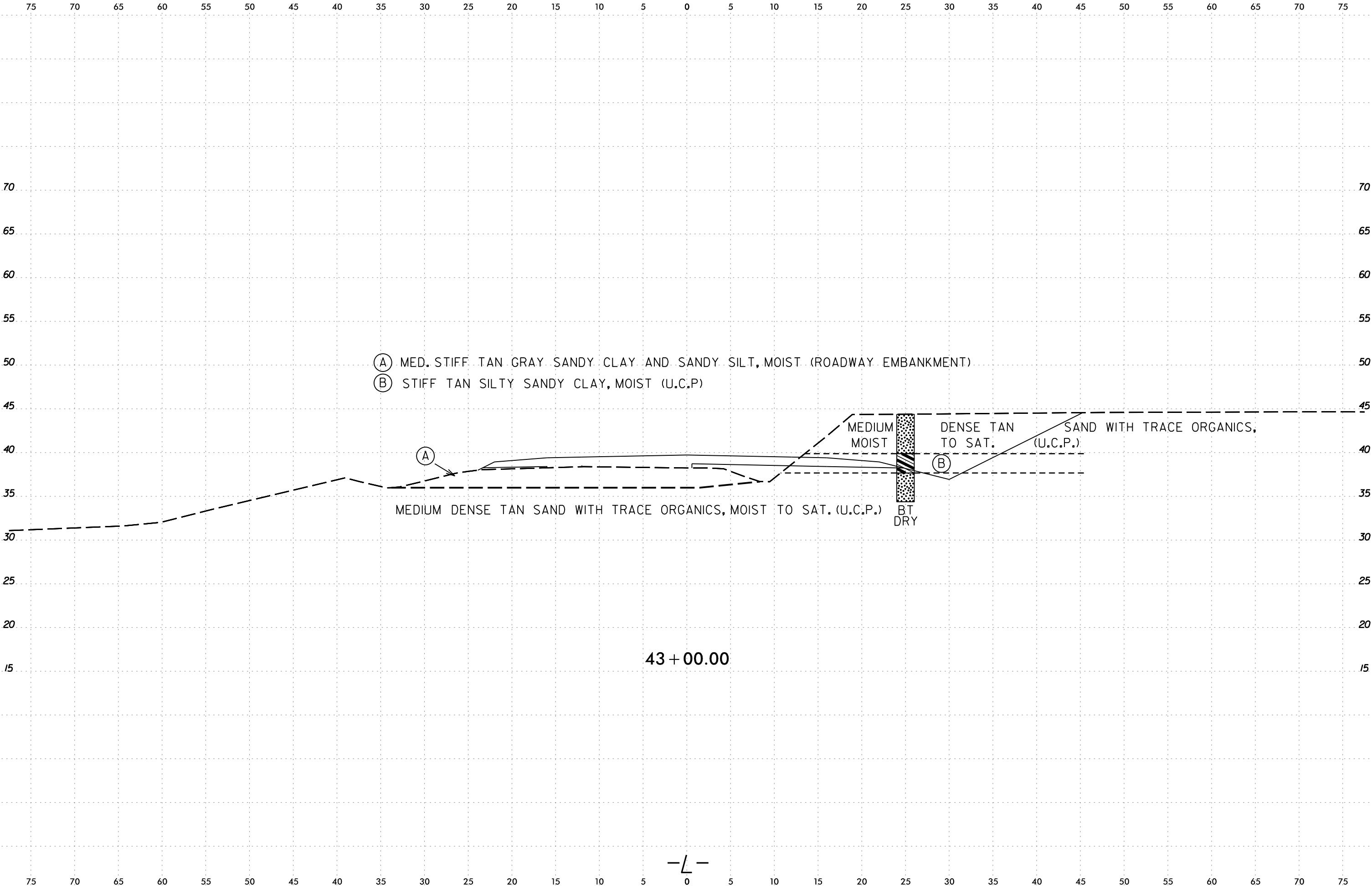
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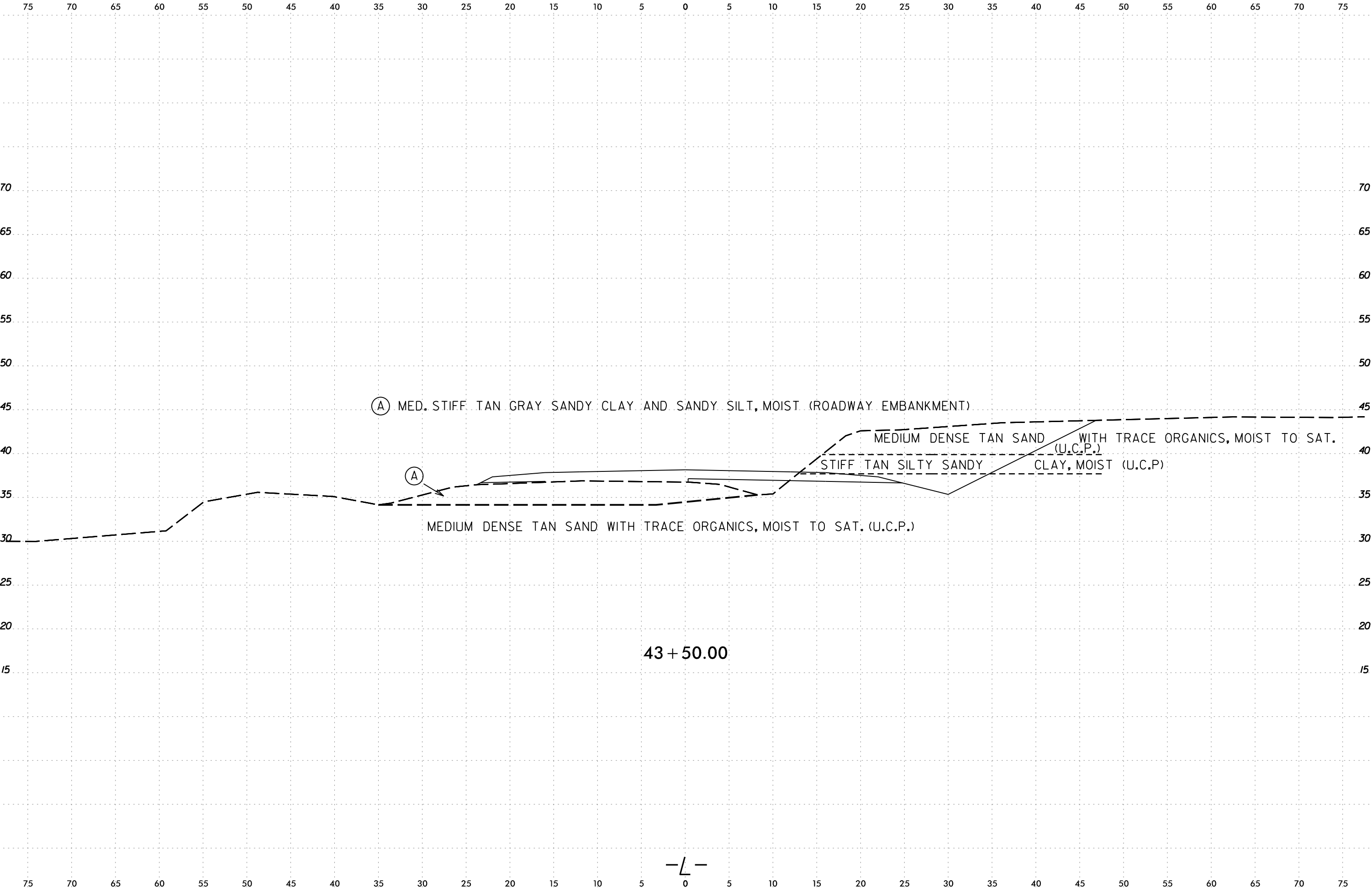
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

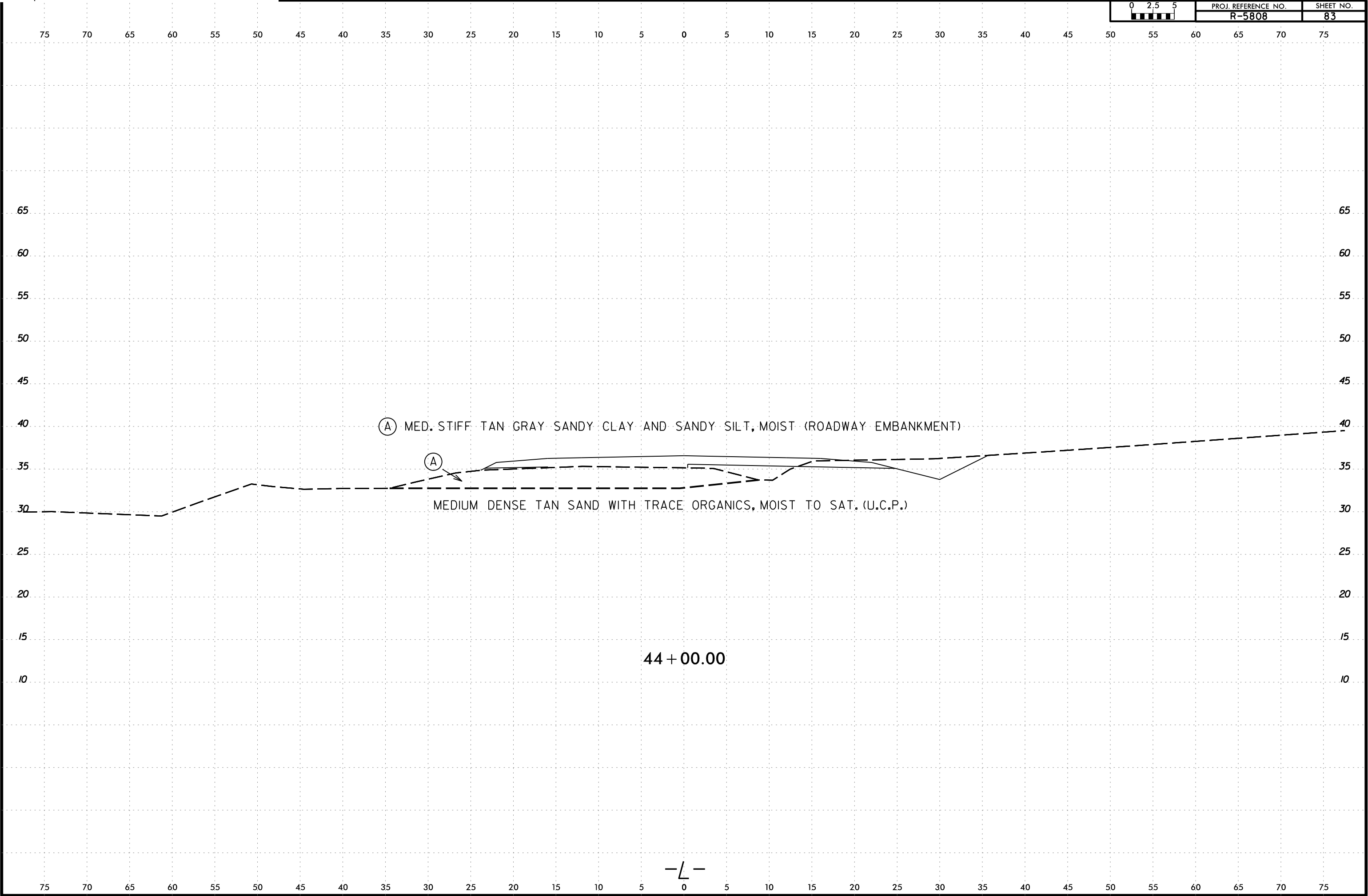
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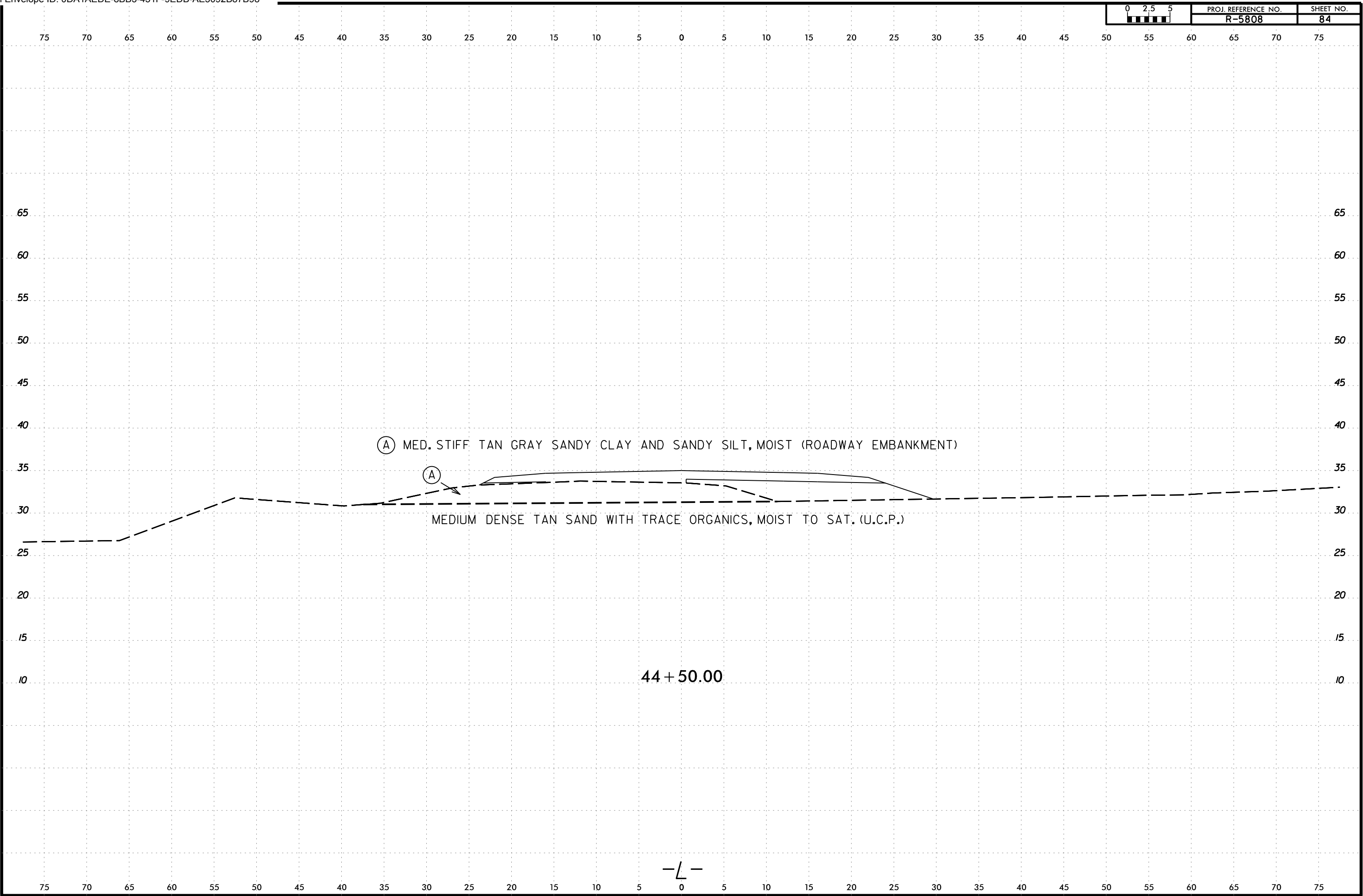


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
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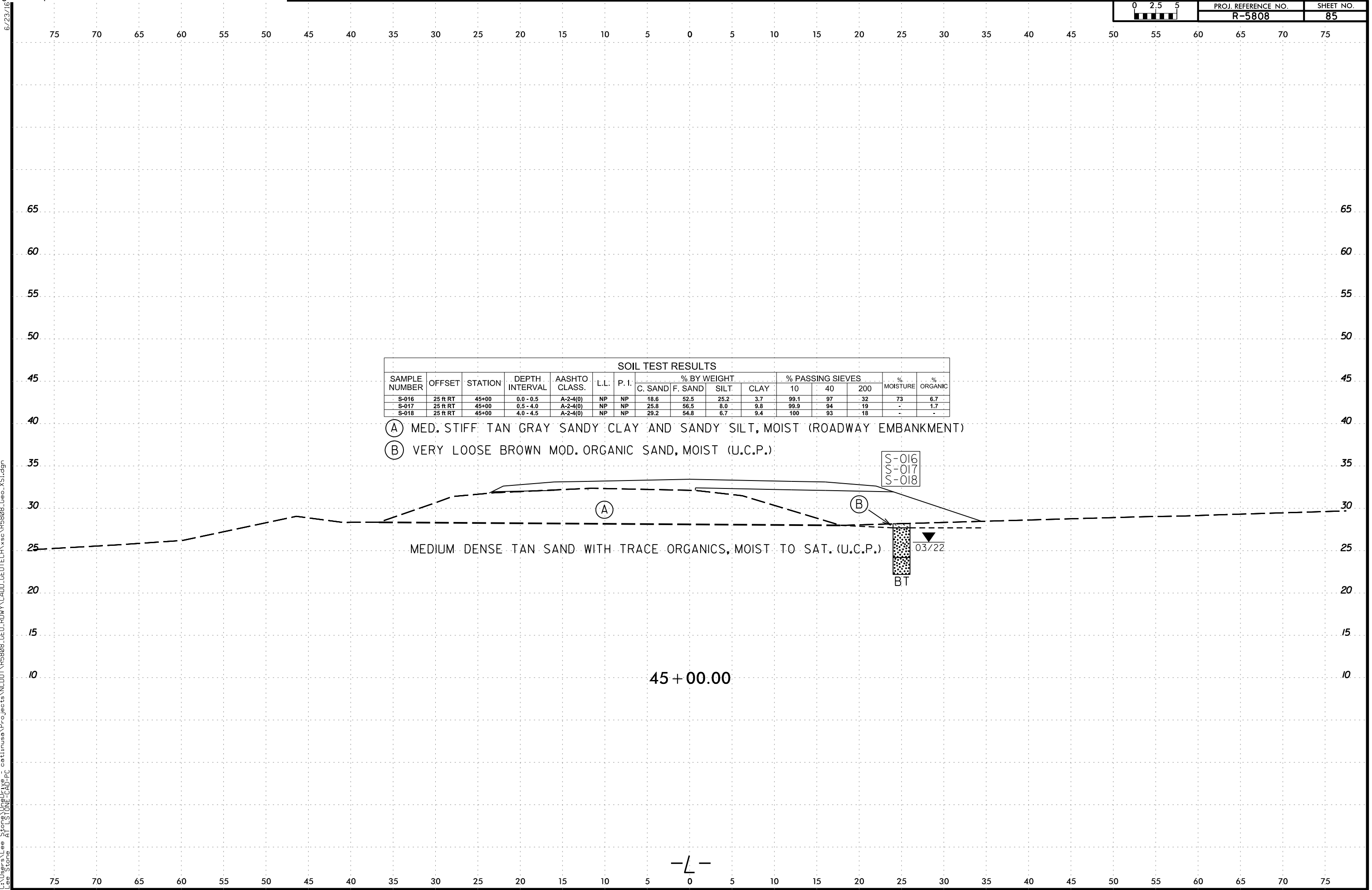


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
R-5808	85

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Lee Stone
AT LSTONE-CAD-PC



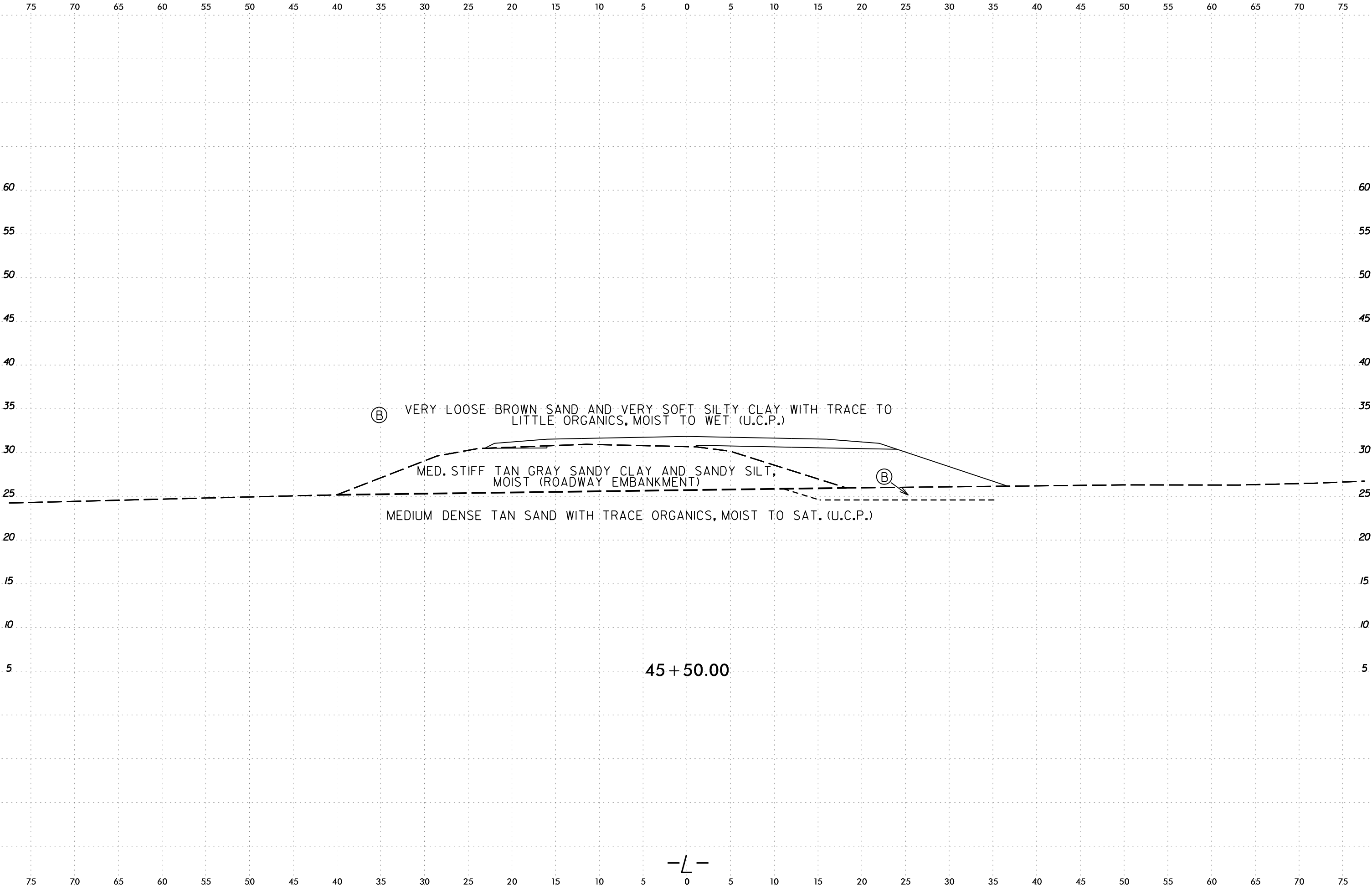
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-016	25 ft RT	45+00	0.0 - 0.5	A-2-4(0)	NP	NP	18.6	52.5	25.2	3.7	99.1	97	32	73	6.7
S-017	25 ft RT	45+00	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	-	-

- (A) MED. STIFF TAN GRAY SANDY CLAY AND SANDY SILT, MOIST (ROADWAY EMBANKMENT)
- (B) VERY LOOSE BROWN MOD. ORGANIC SAND, MOIST (U.C.P.)

6/23/16

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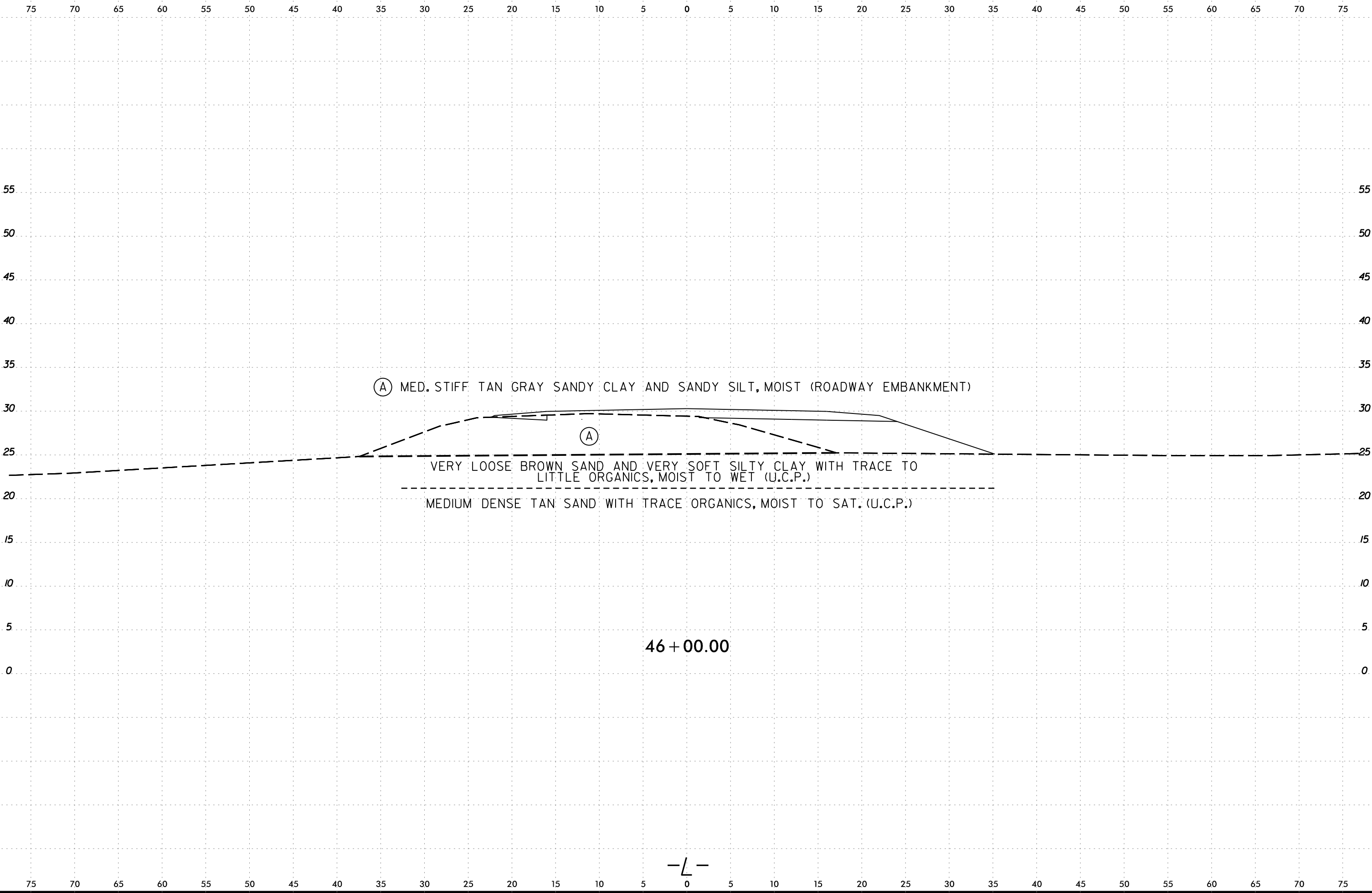
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	R-5808	86



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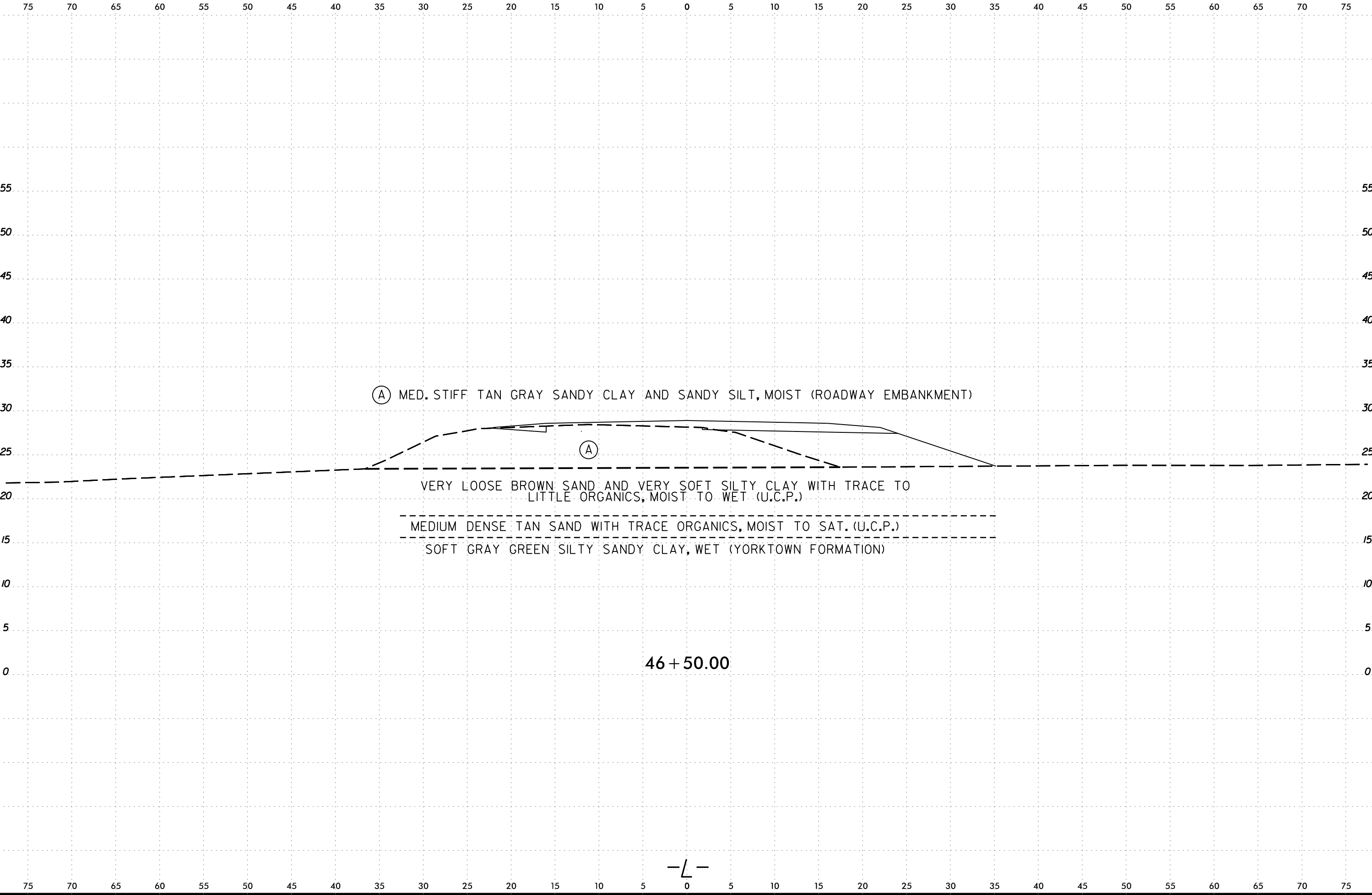
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	R-5808	87



6/23/16

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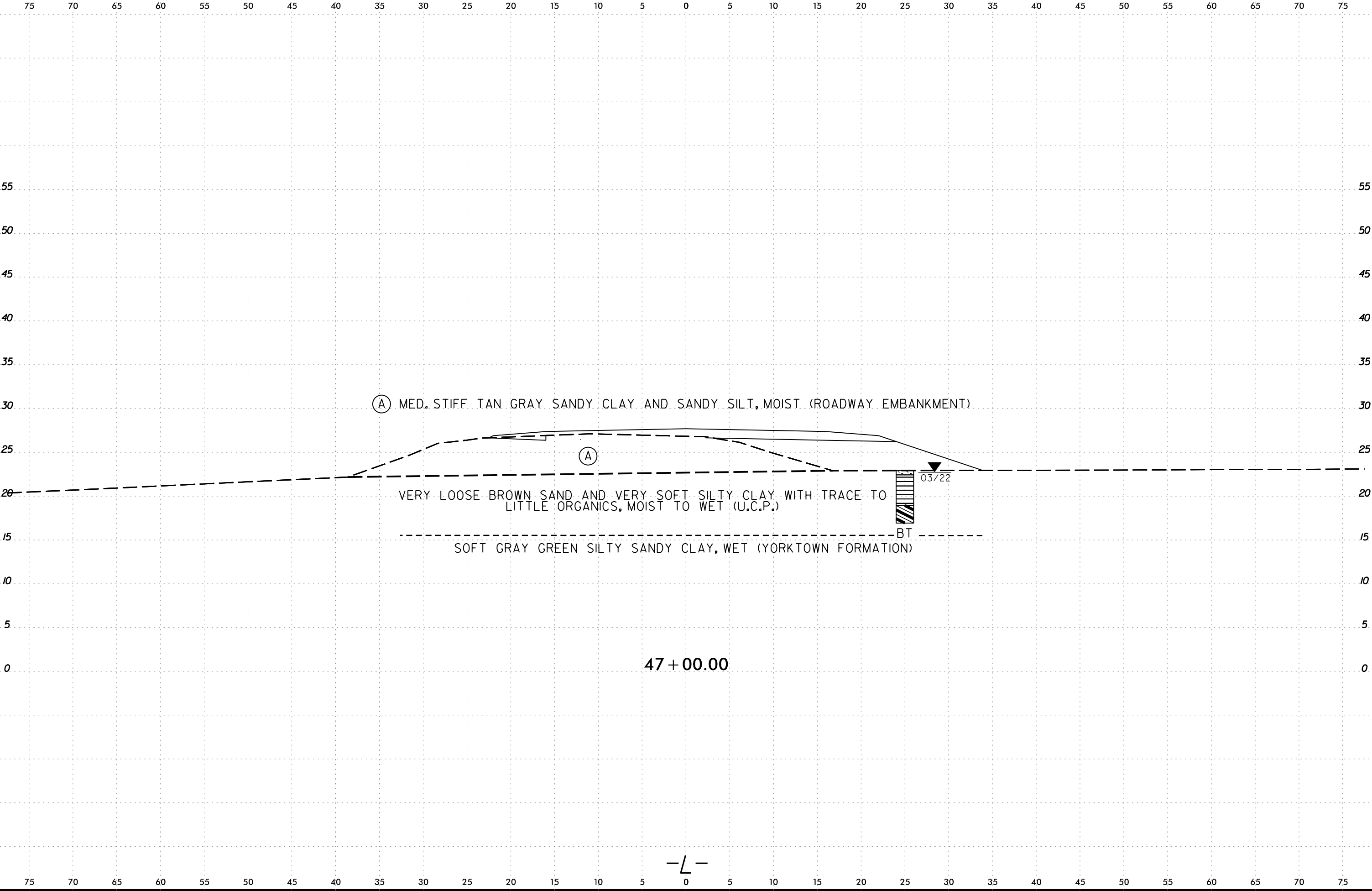
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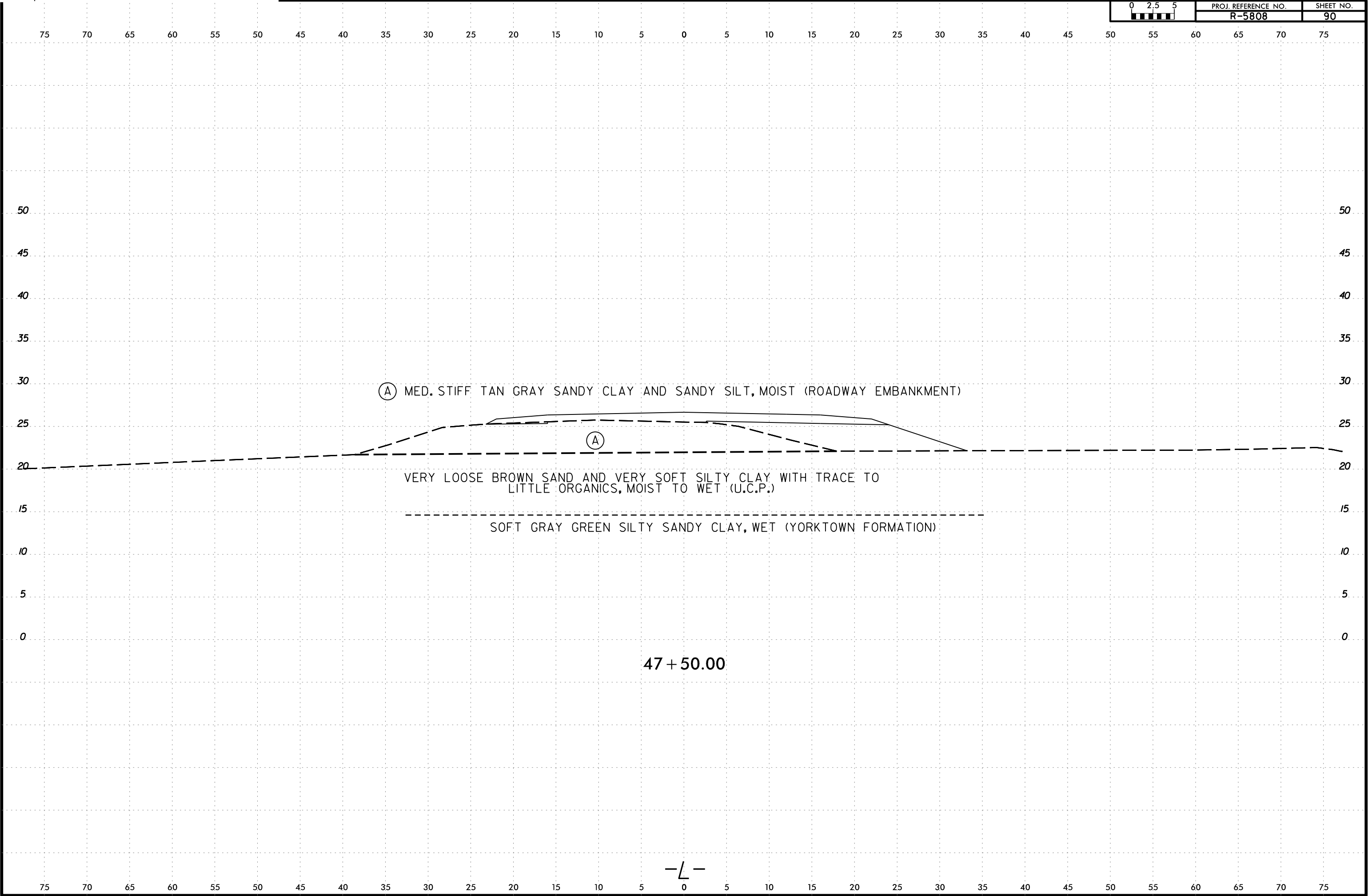
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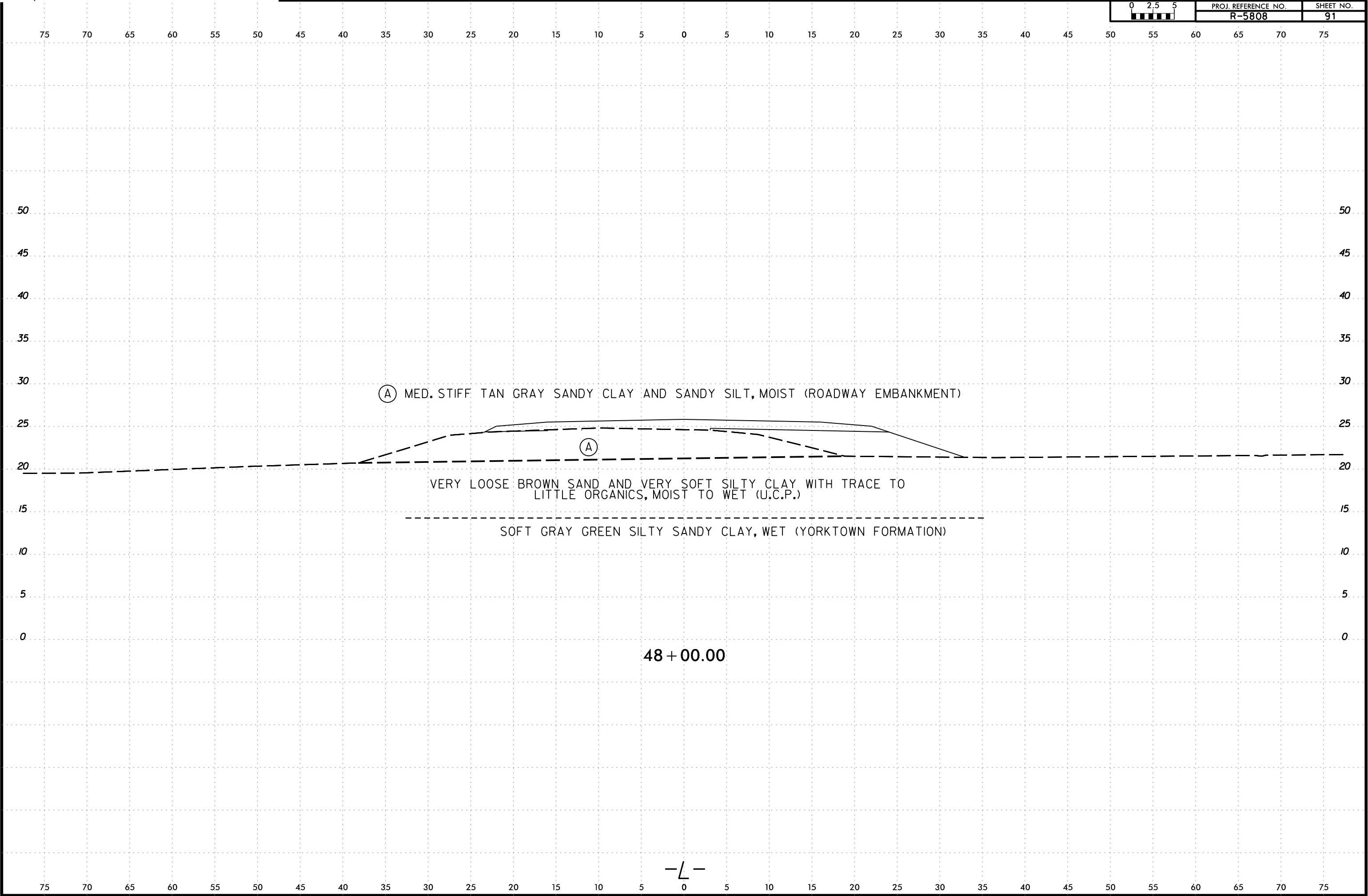
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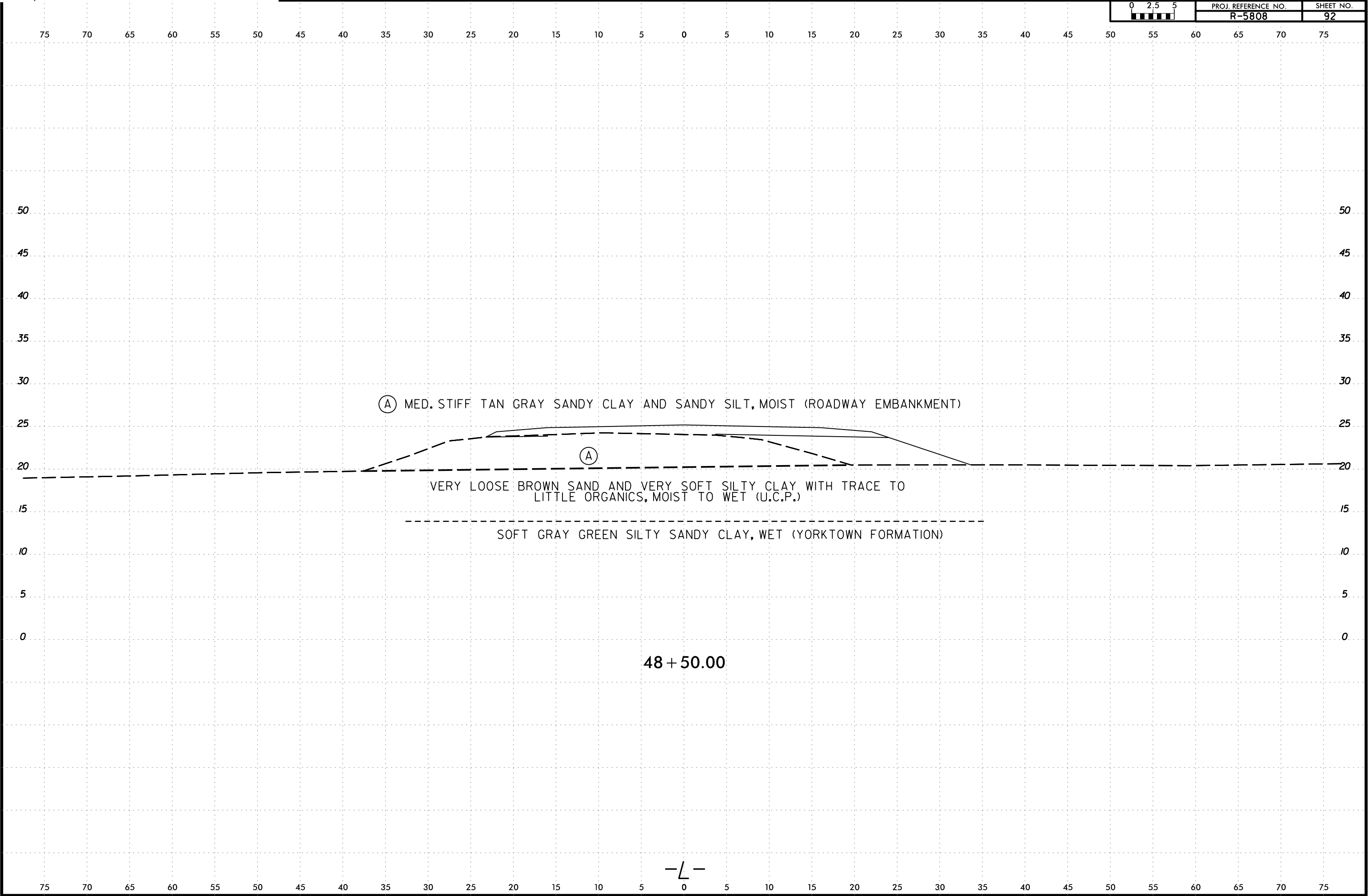
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

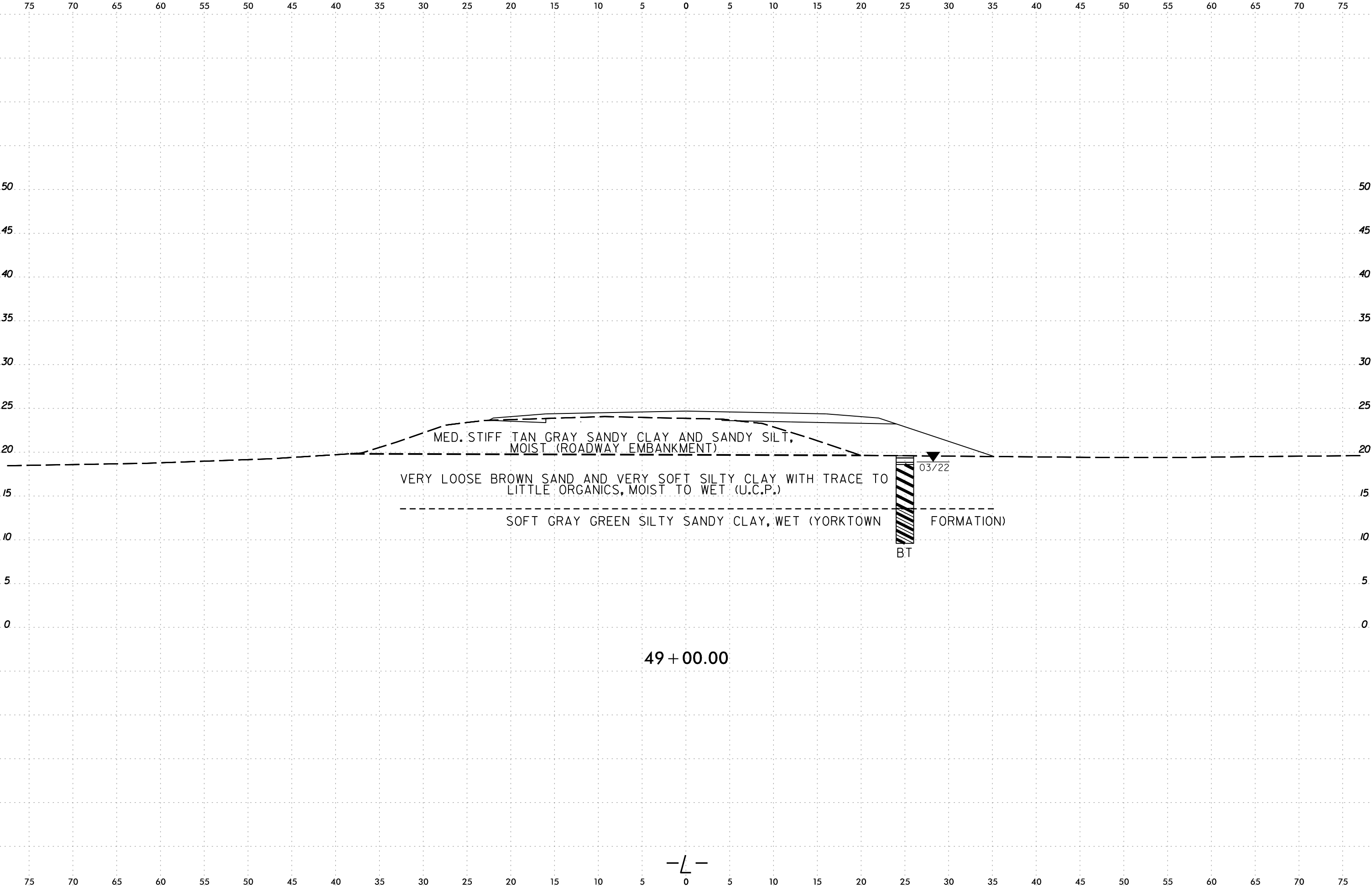
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	R-5808	92



6/23/16

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Lee Stone AT LSTONE-CAD-PC

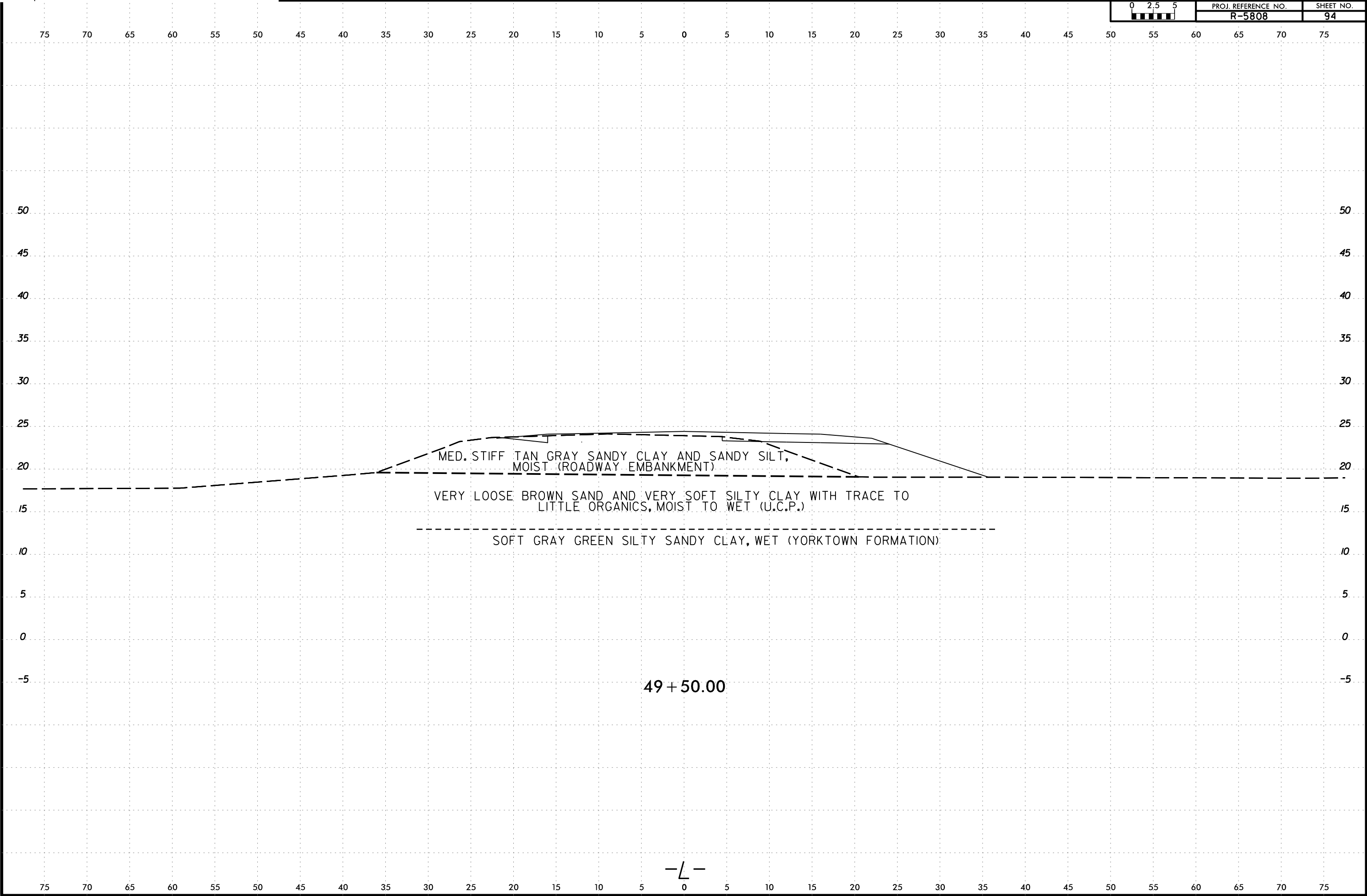
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	R-5808	93



6/23/16

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Lee Stone AT LSTONE-CAD-PC

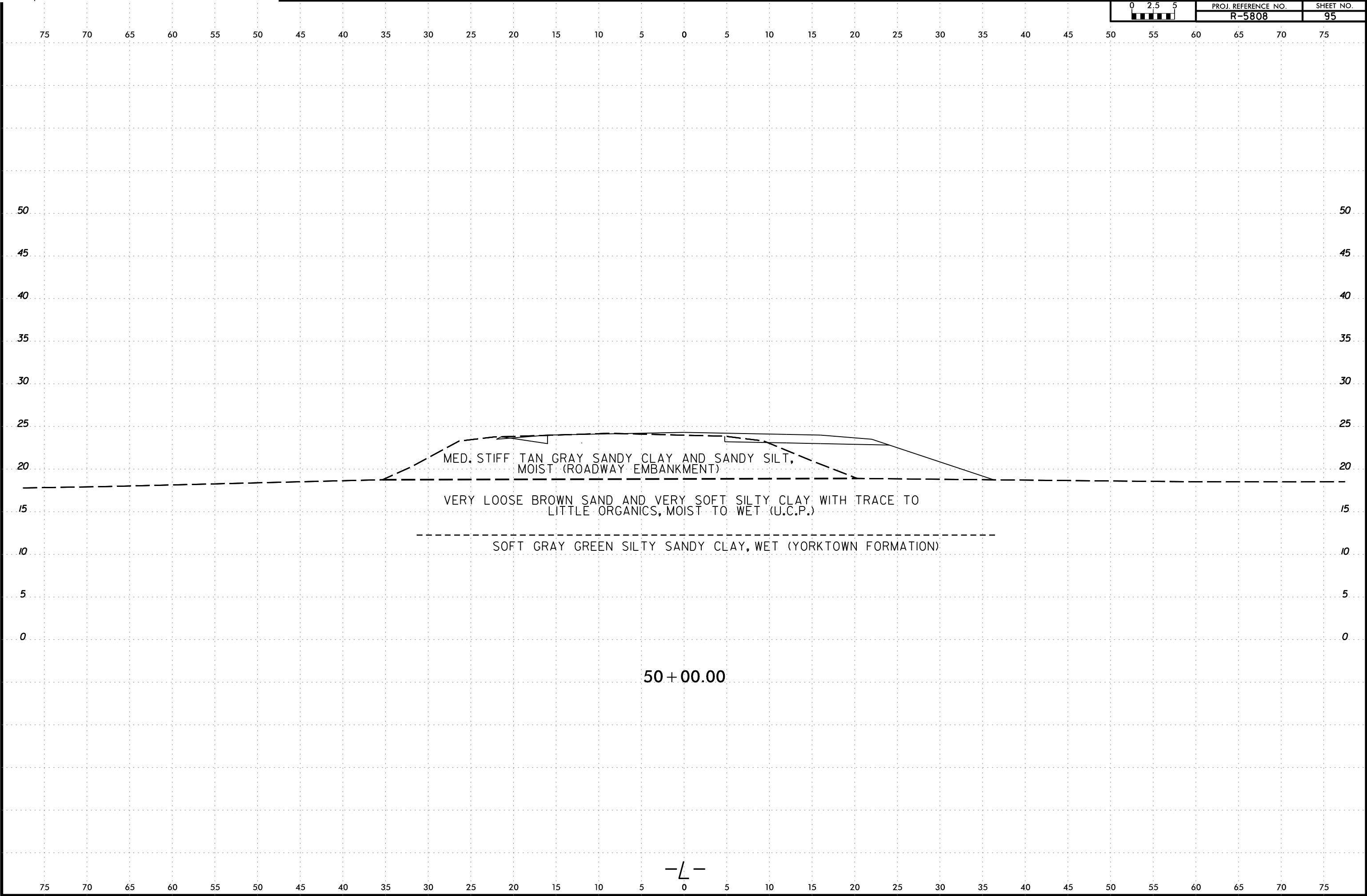
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	R-5808	94



6/23/16

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Lee Stone AT LSTONE-CAD-PC

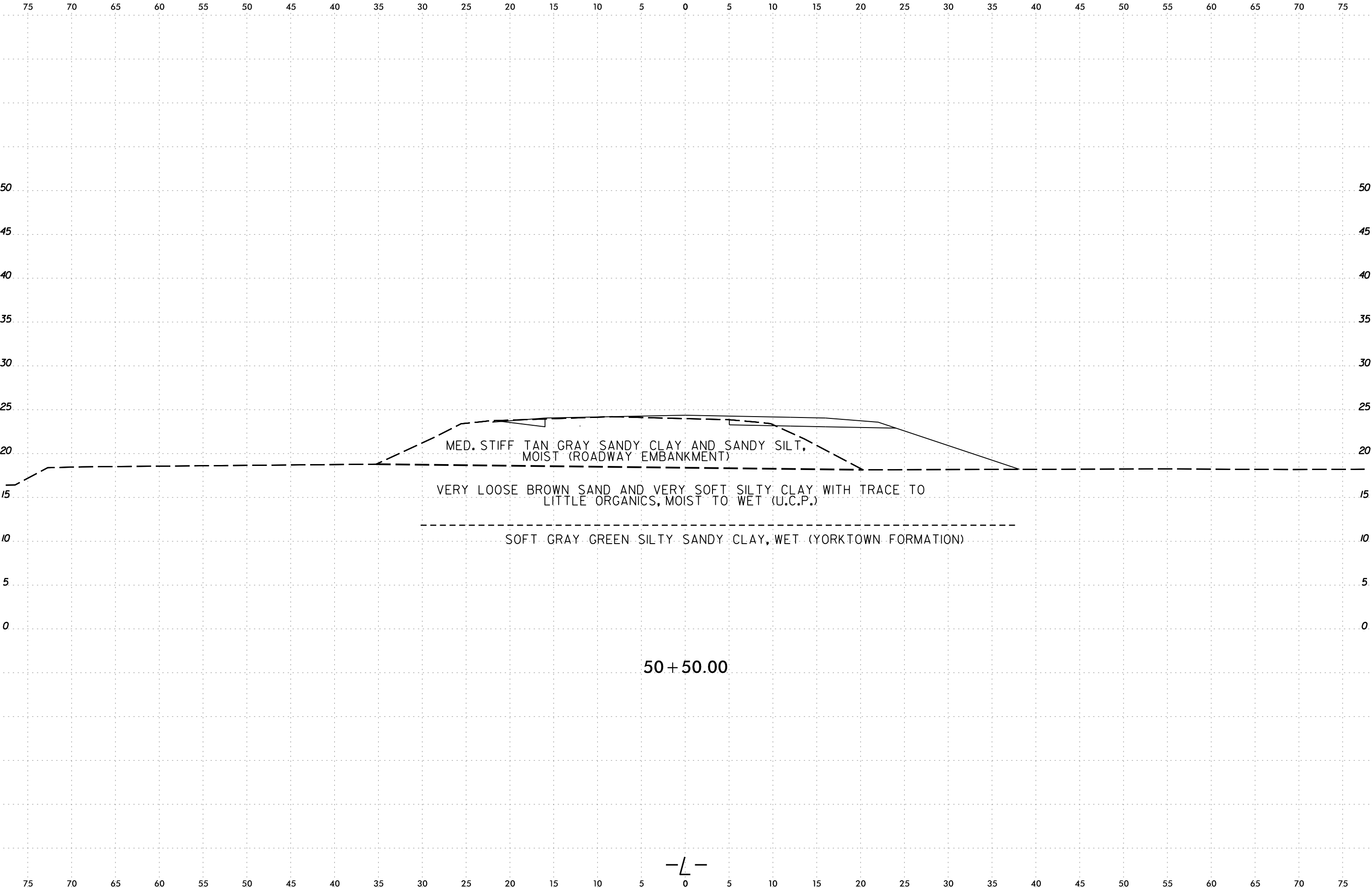
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	R-5808	95



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
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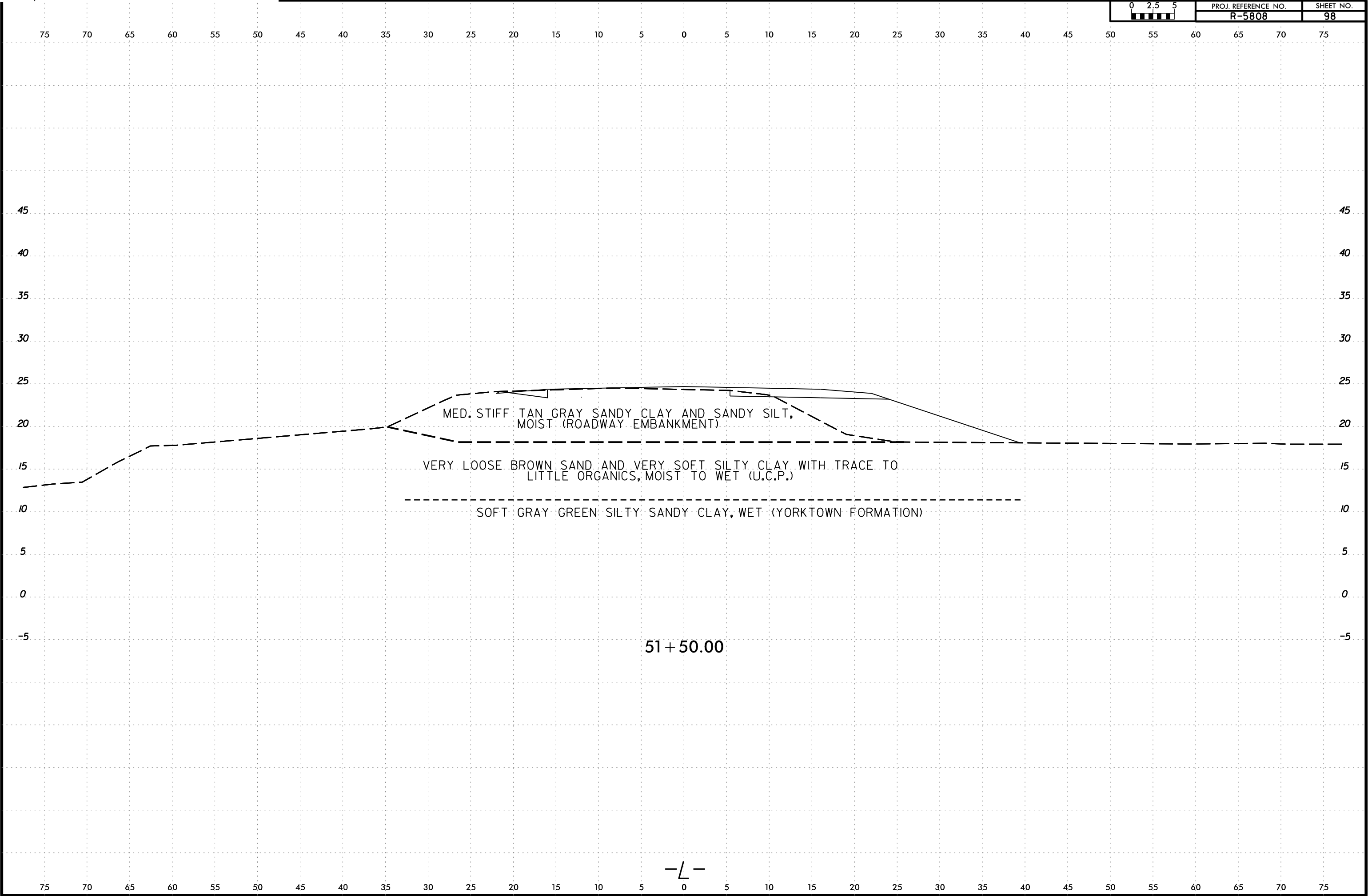




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Lee Stone AT LSTONE-CAD-PC

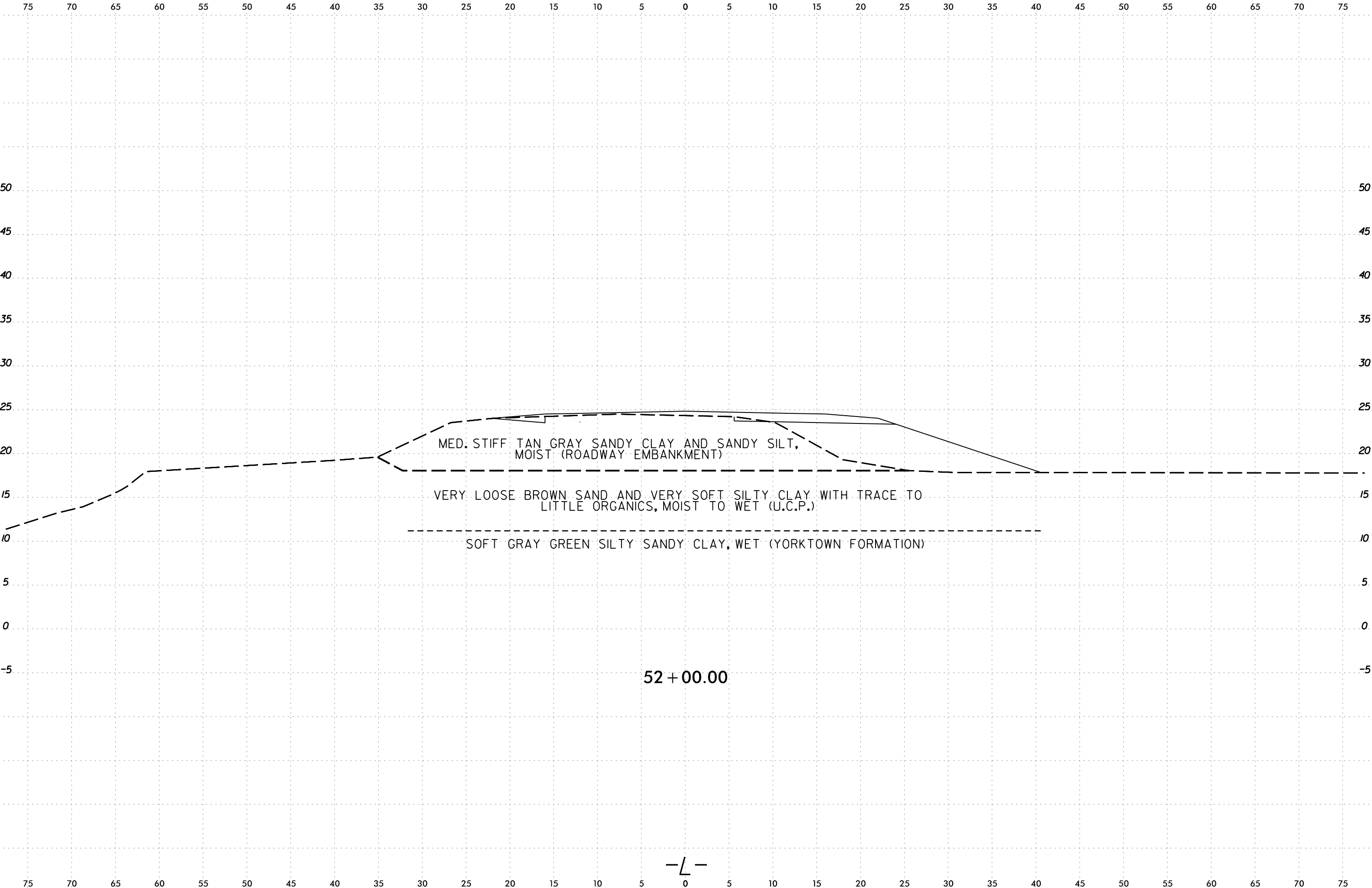
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	R-5808	98



6/23/16

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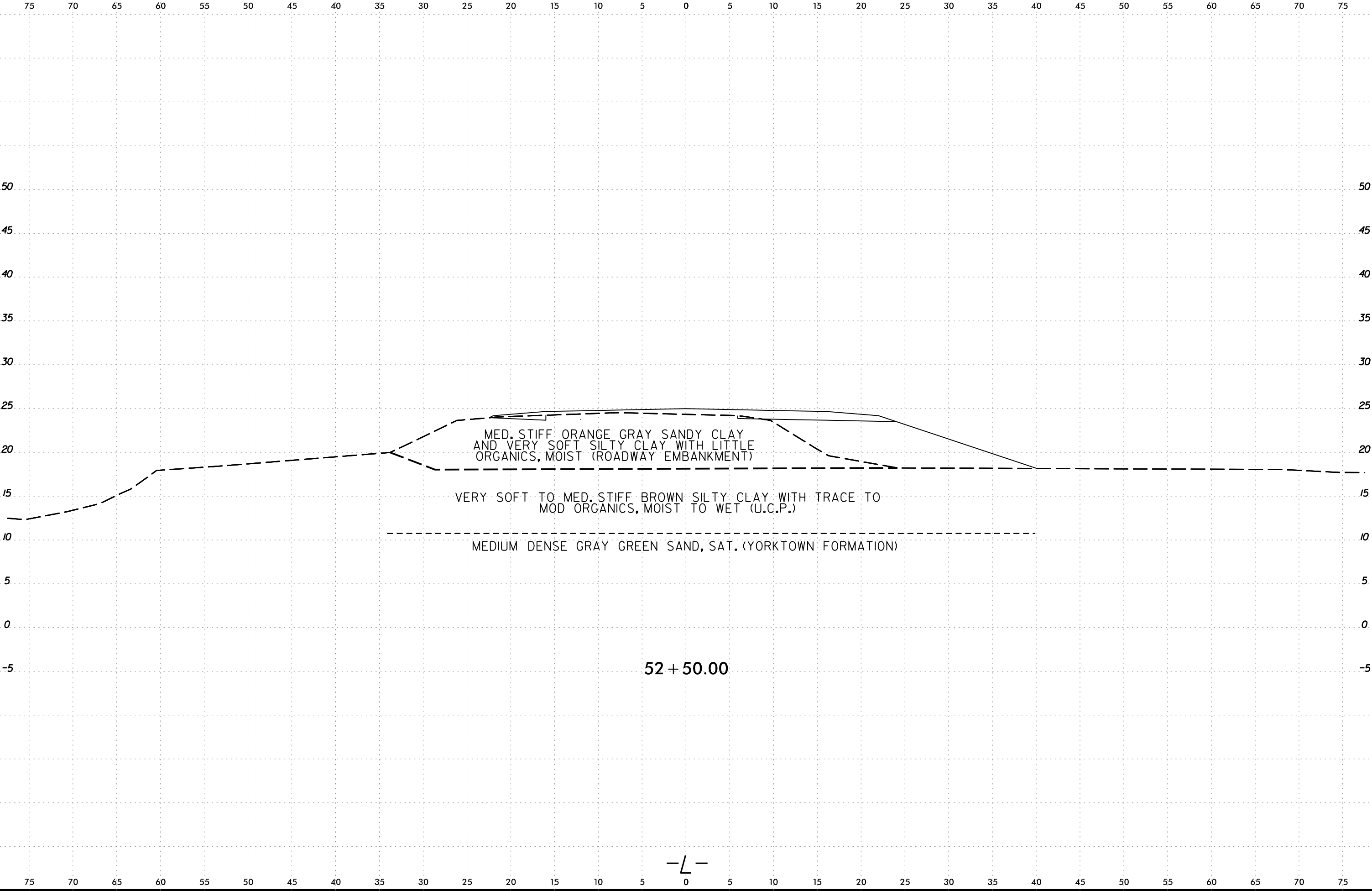
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	R-5808	99



6/23/16

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Lee Stone AT LSTONE-CAD-PC

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	R-5808	100

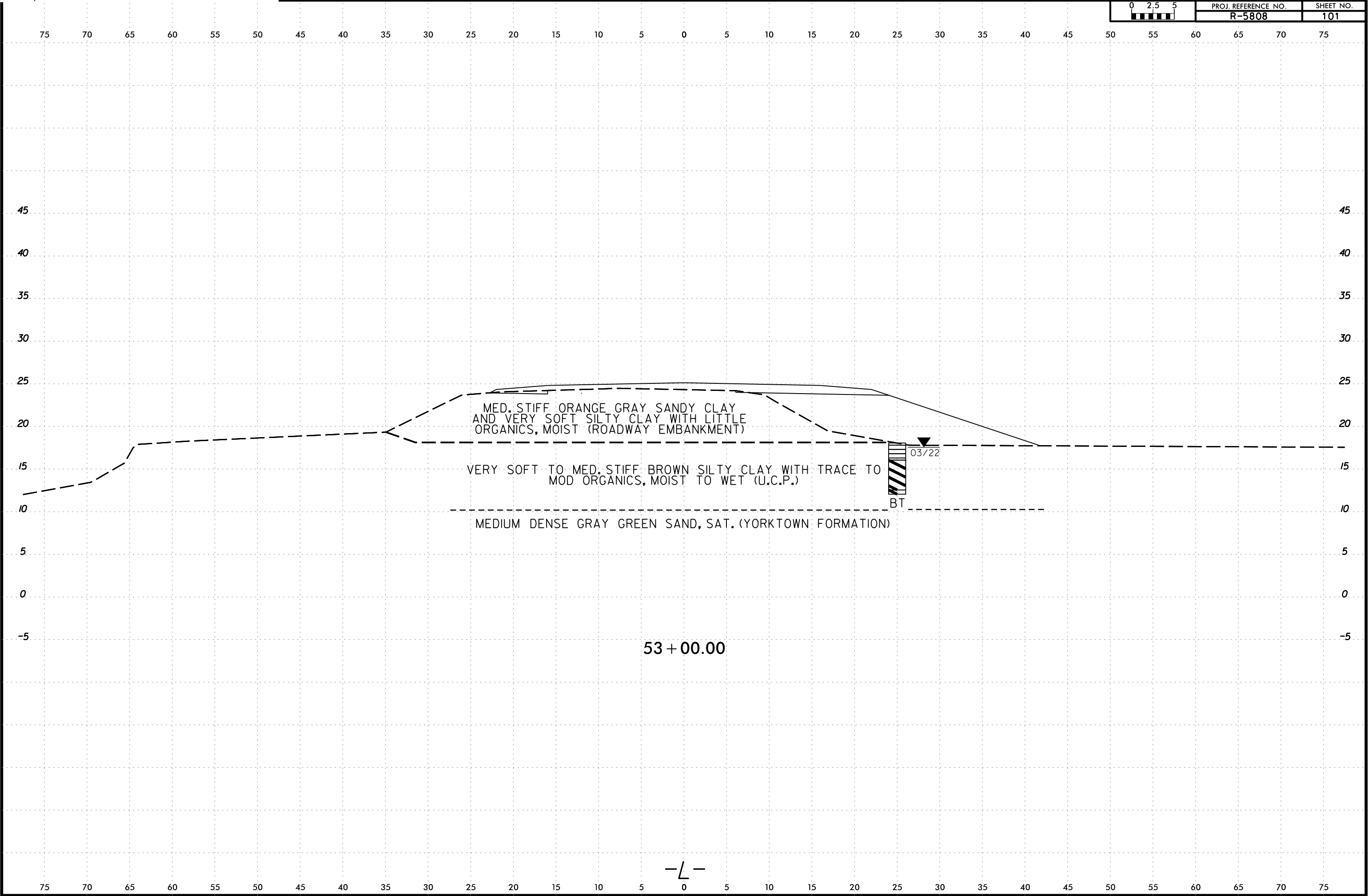


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Lee Stone AT LSTONE-CAD-PC

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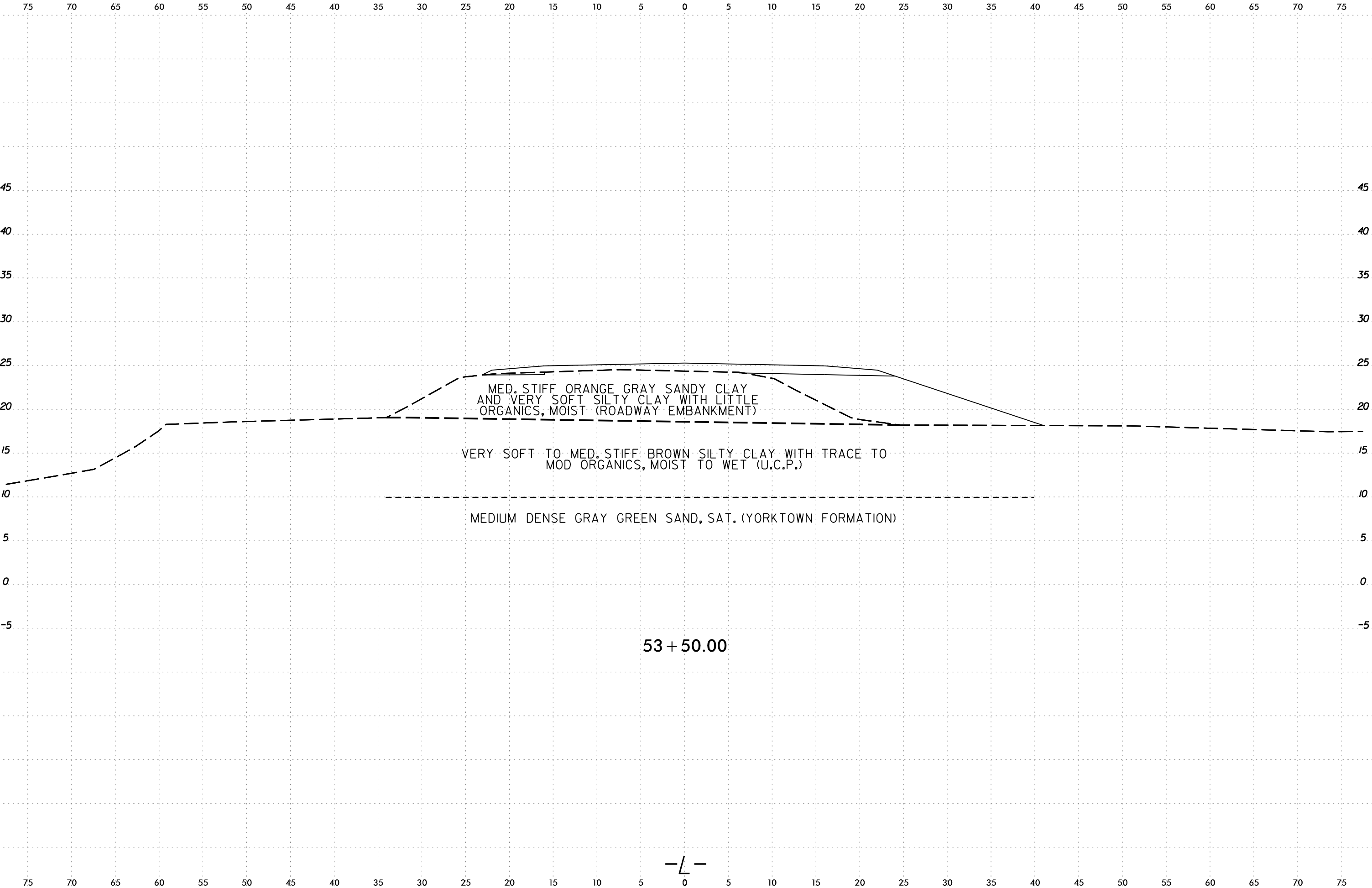
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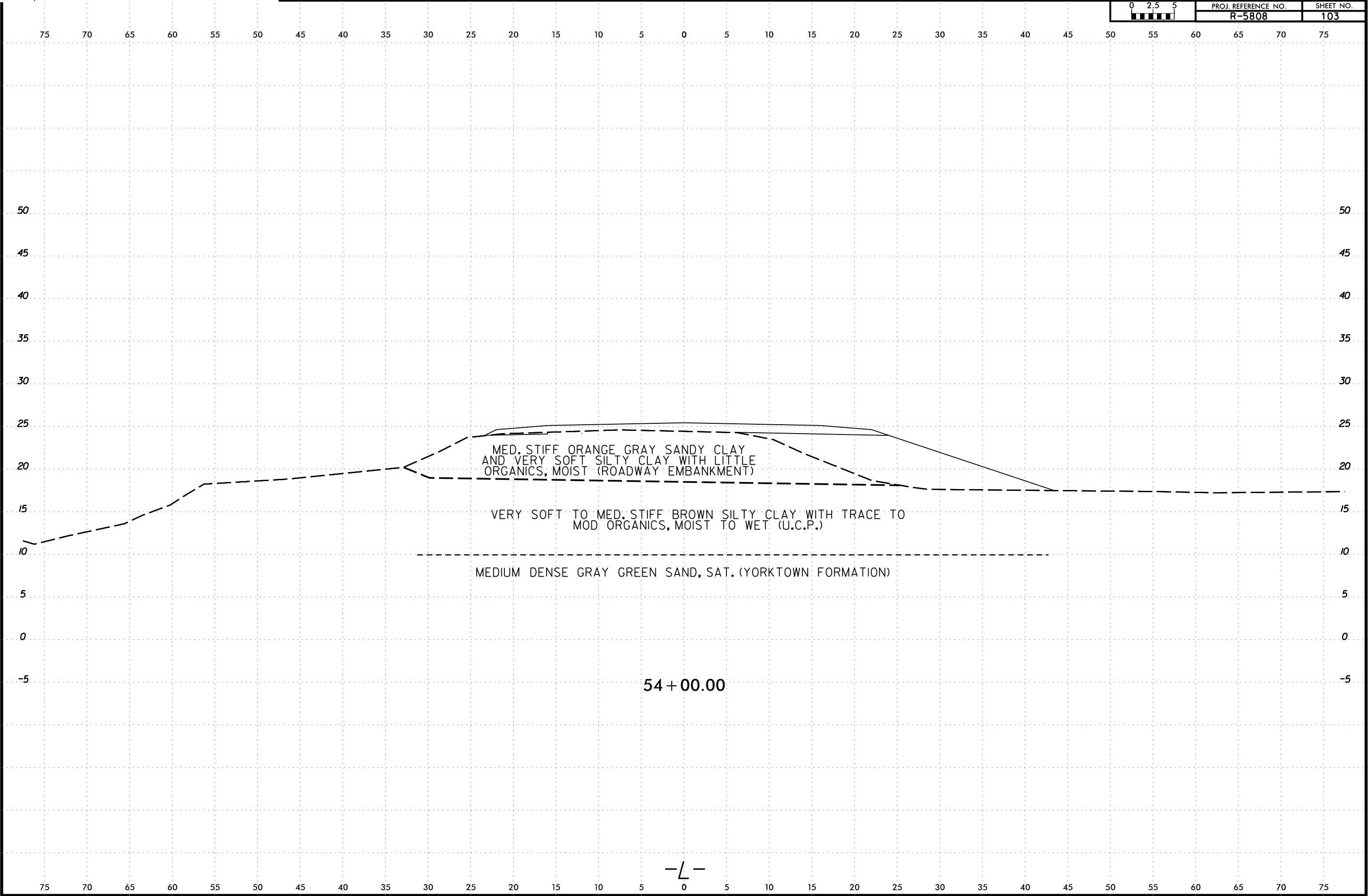
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	R-5808	102



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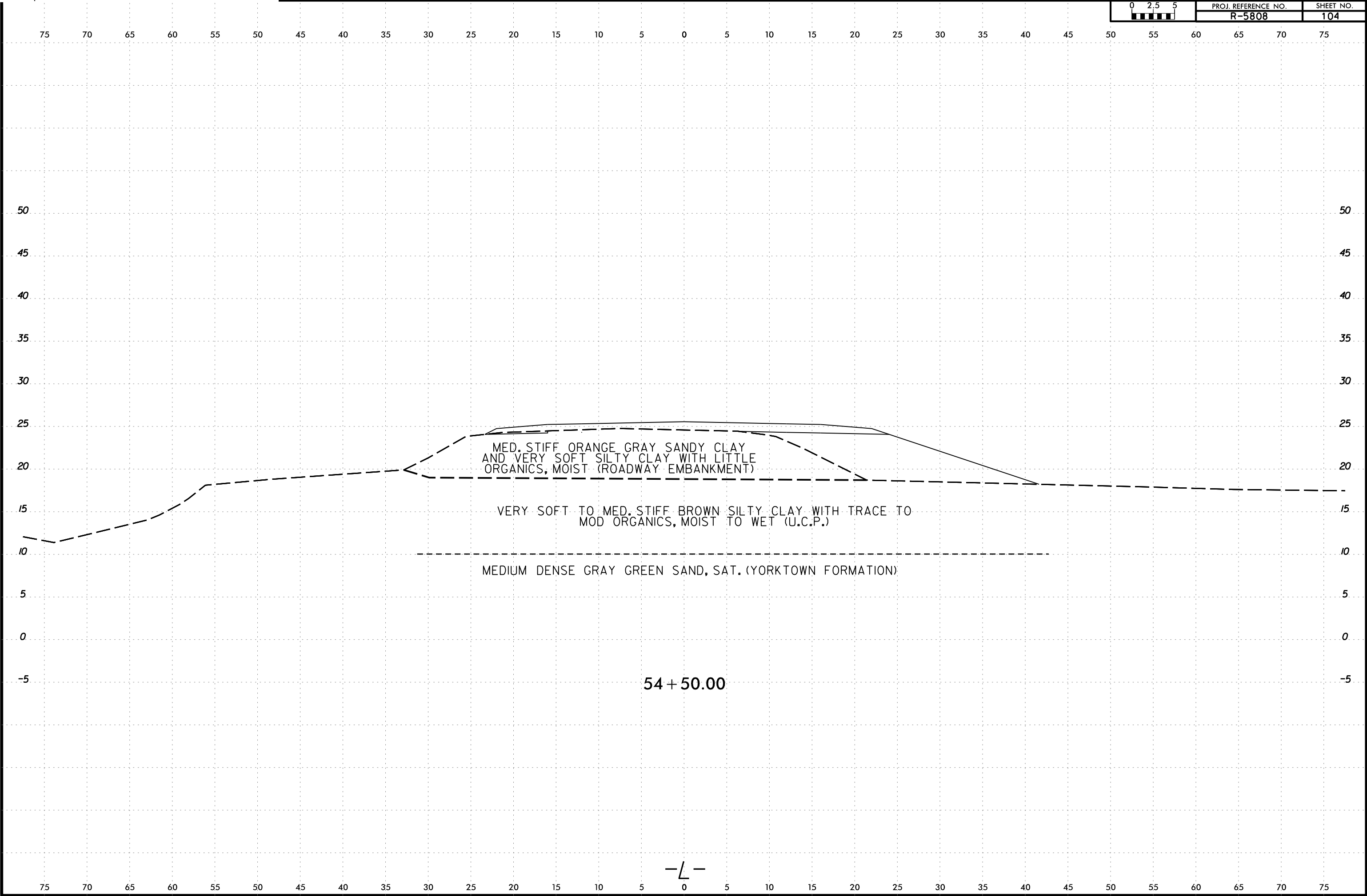
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	R-5808	103



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	104



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PROJ. REFERENCE NO.
R-5808

SHEET NO.
105

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	-	-

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

SS-056
SS-057
SS-058
SS-059
SS-060

PAVEMENT

(7)

(WOH)

(3)

(4)

(4)

(5)

(21)

BT
FIAD

VERY SOFT TO MED. STIFF BROWN SILTY MOD ORGANICS, MOIST TO

CLAY WITH TRACE TO WET (U.C.P.)

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

55 + 00.00

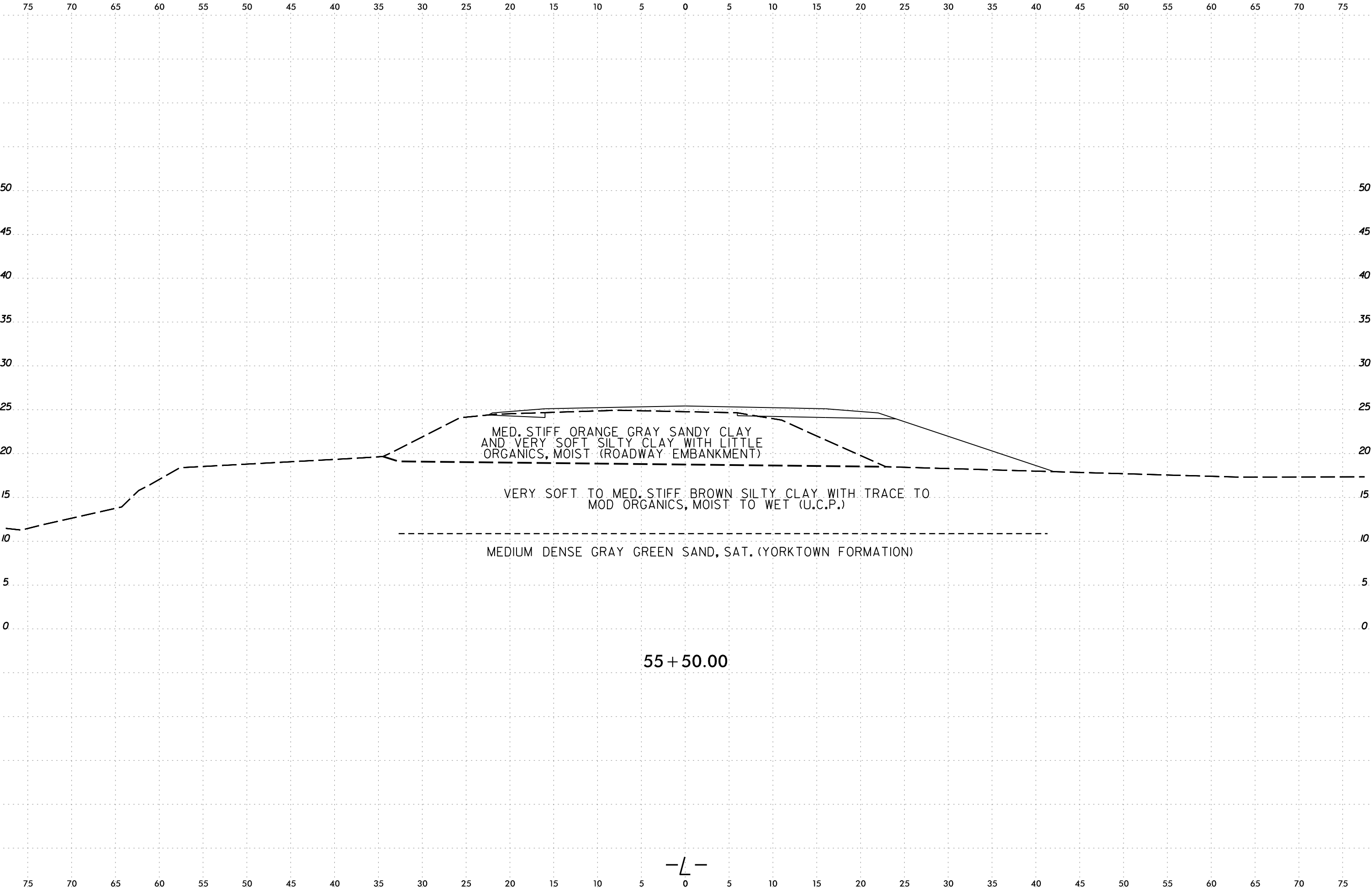
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Lee.Stone AT LSTONE-CAD-PC

6/23/16

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Lee Stone AT LSTONE-CAD-PC

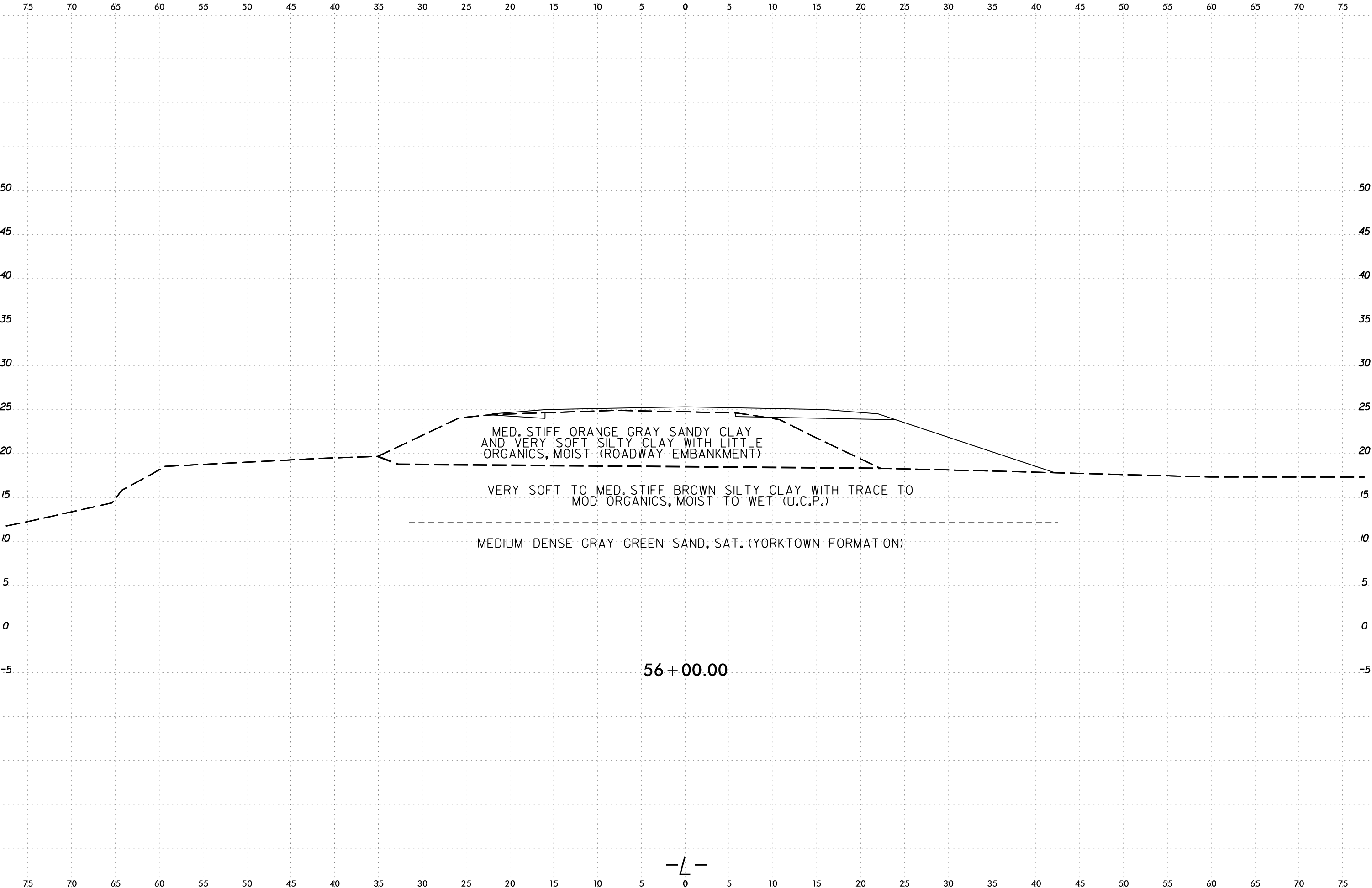
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	R-5808	106



6/23/16

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Lee Stone AT LSTONE-CAD-PC

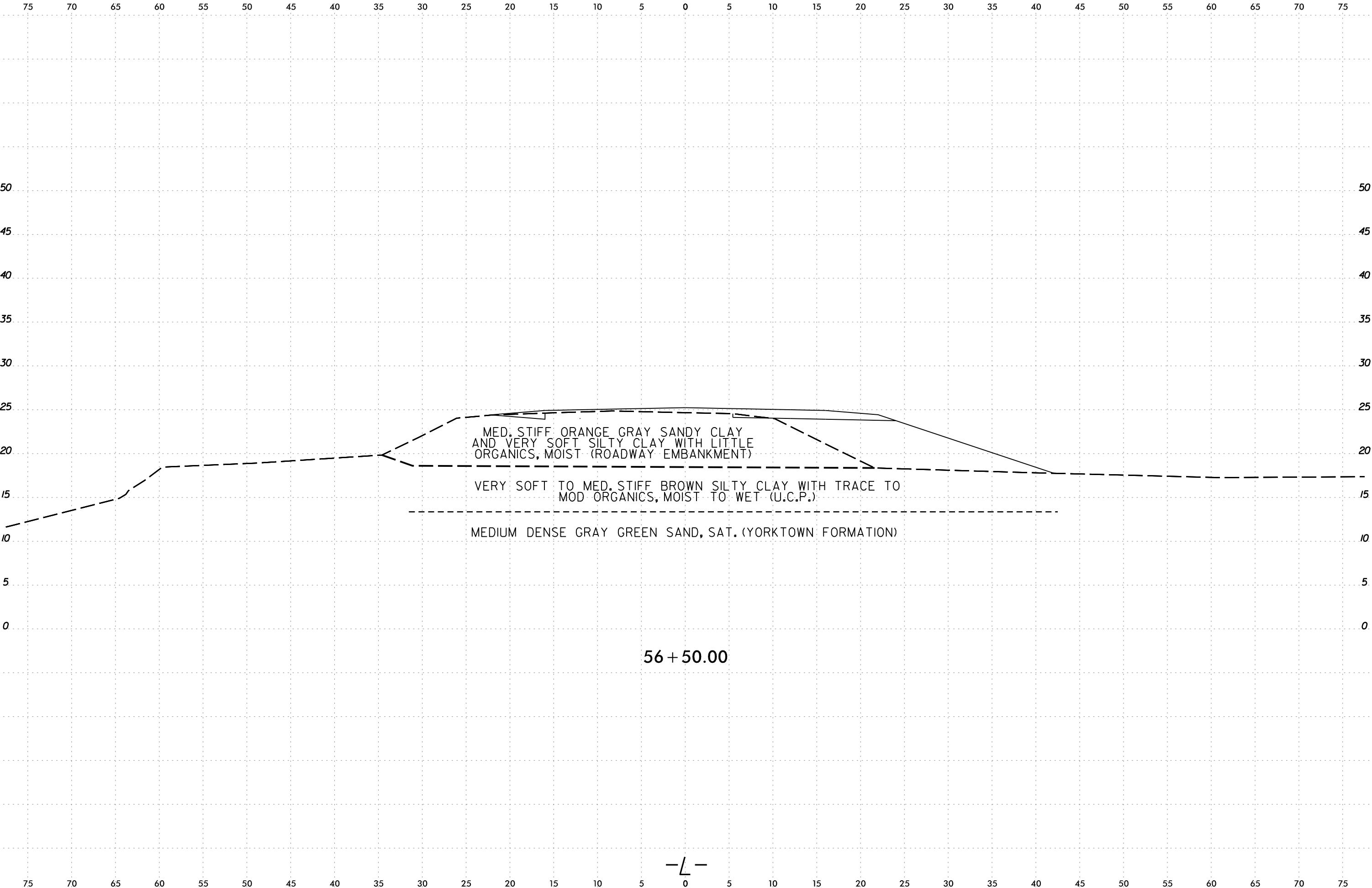
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	R-5808	107



6/23/16

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Lee Stone AT LSTONE-CAD-PC

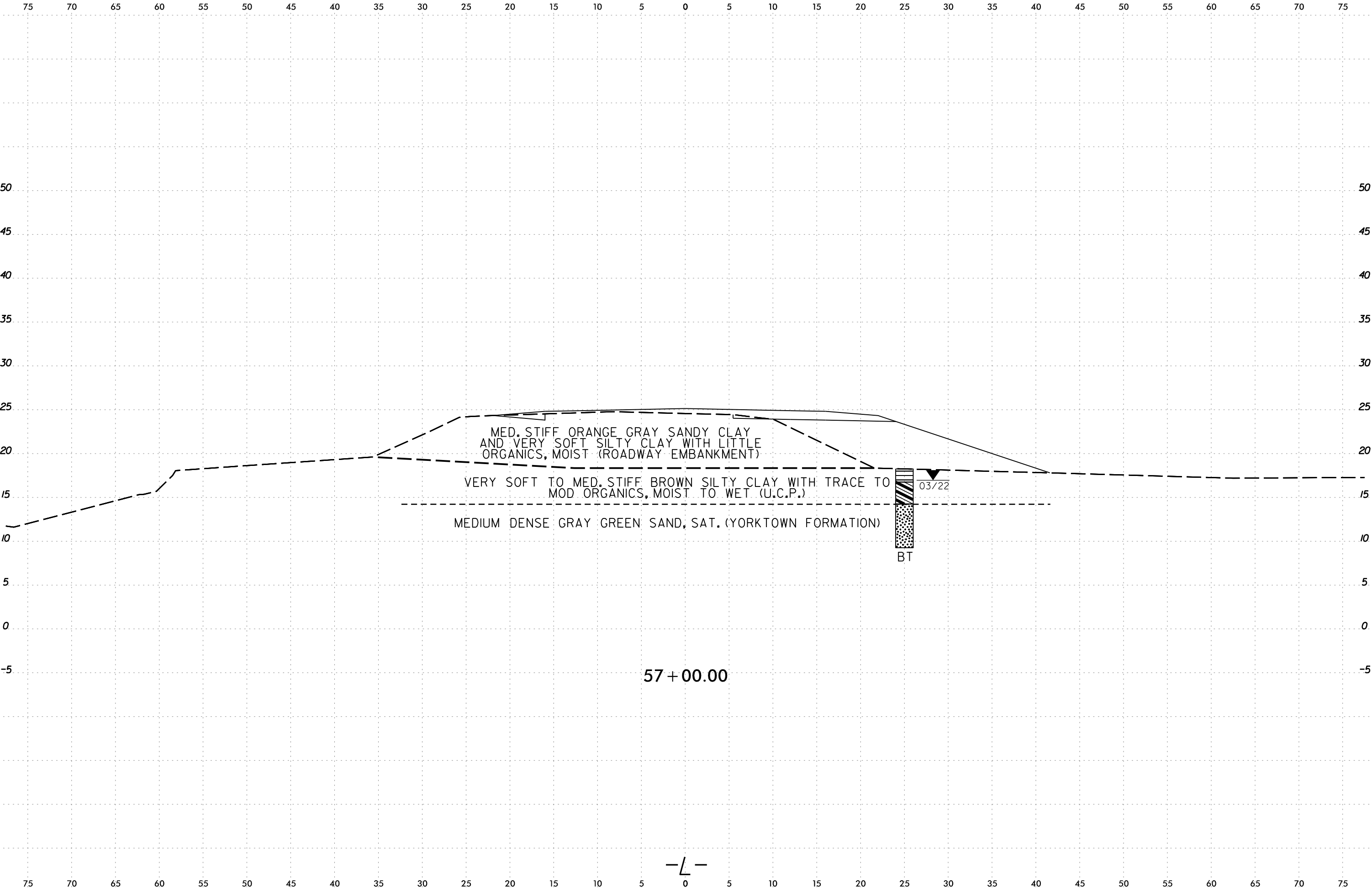
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	R-5808	108



6/23/16

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Lee Stone AT LSTONE-CAD-PC

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



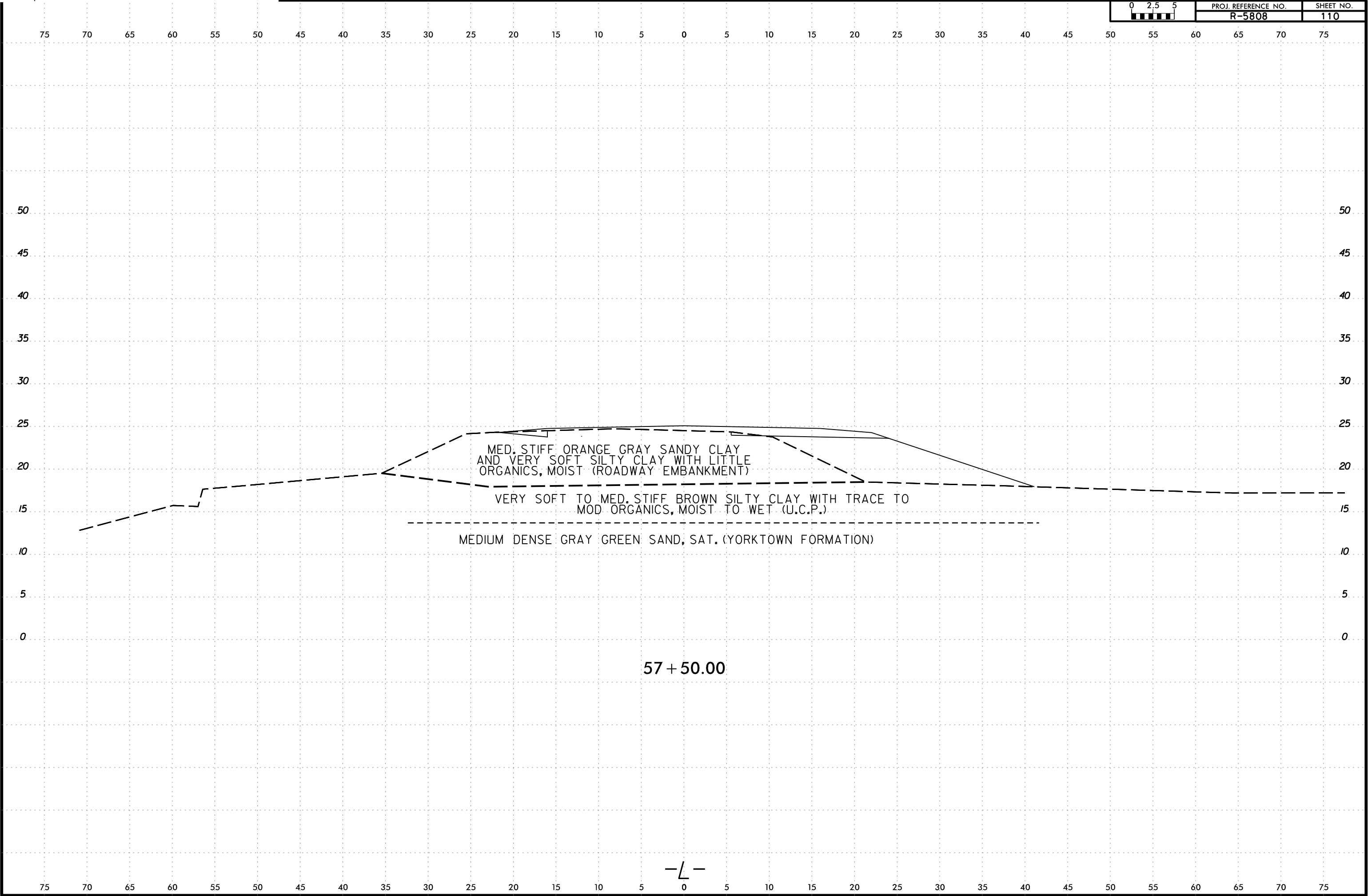
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

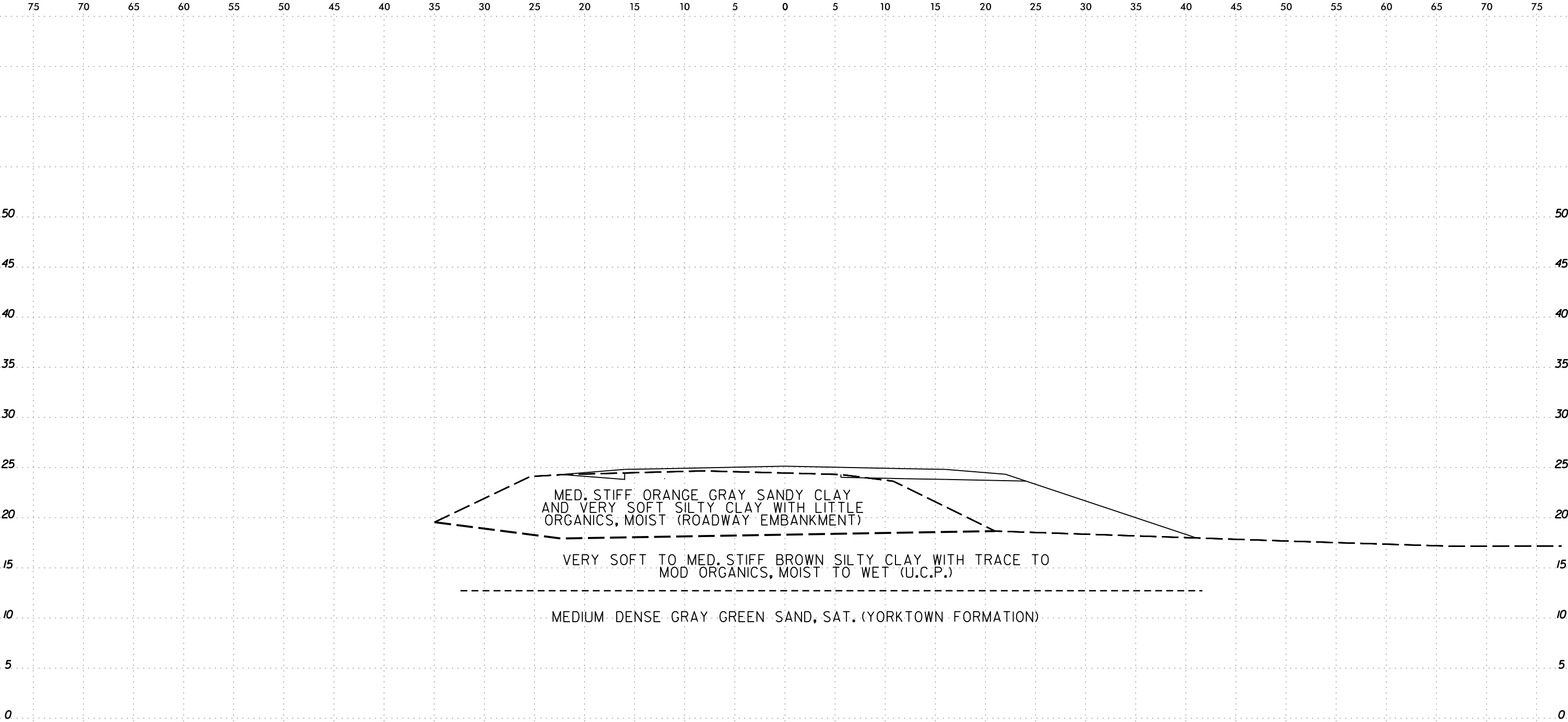
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	R-5808	110



6/23/16

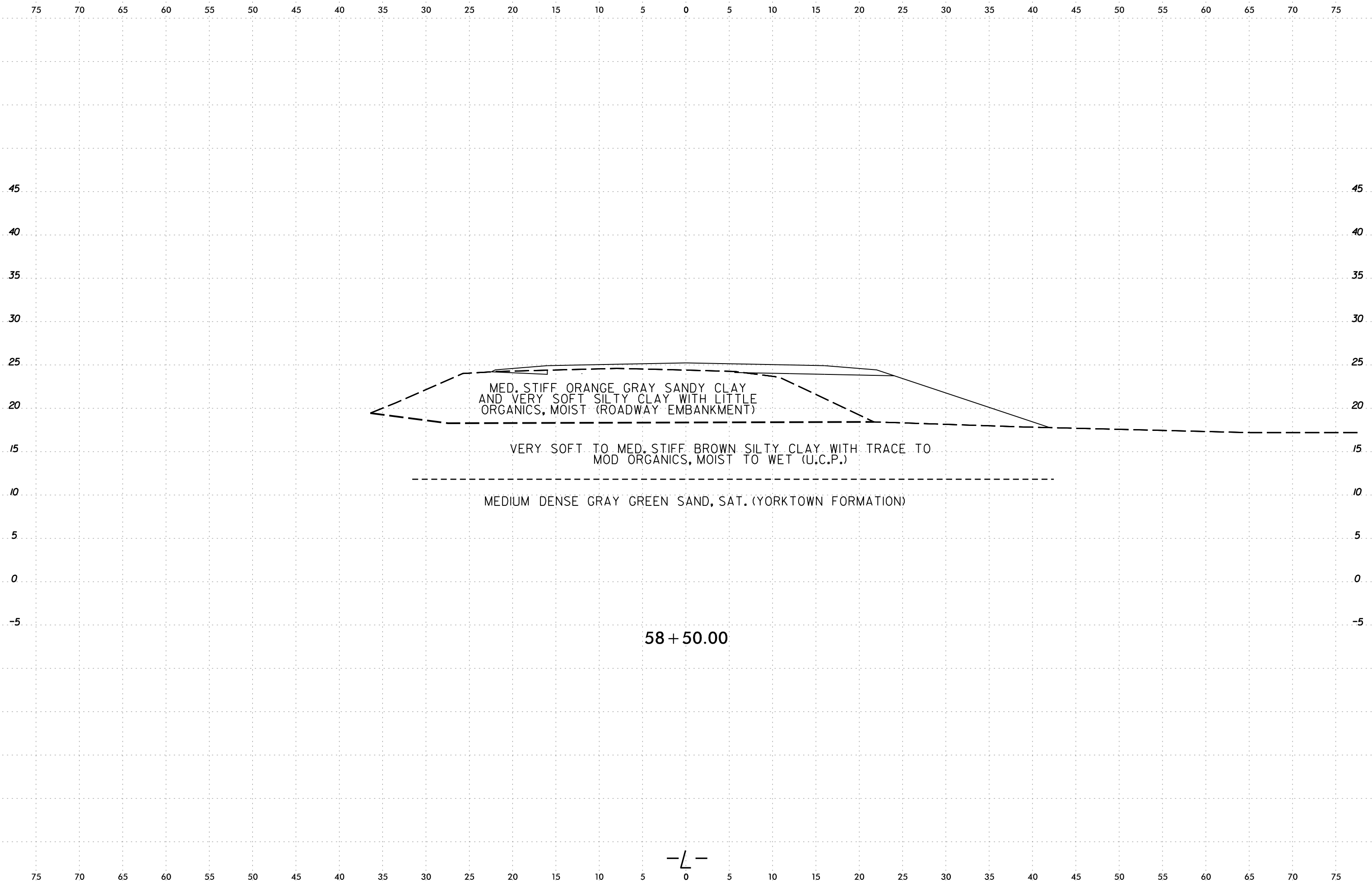
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Lee Stone AT LSTONE-CAD-PC

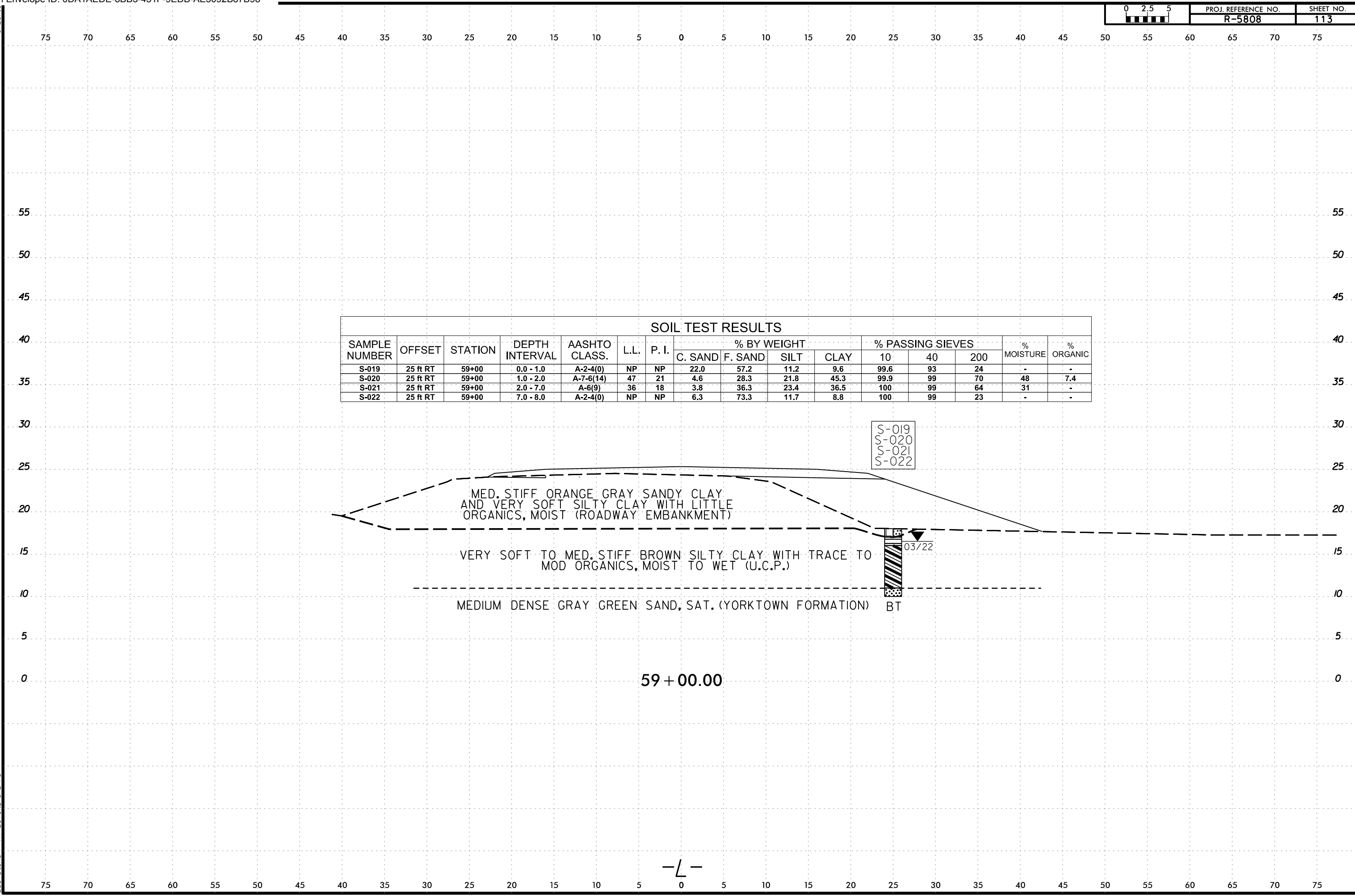
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	R-5808	111



58 + 00.00

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6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	114

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5050

4545

4040

3535

3030

2525

2020

1515

1010

55

00

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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)

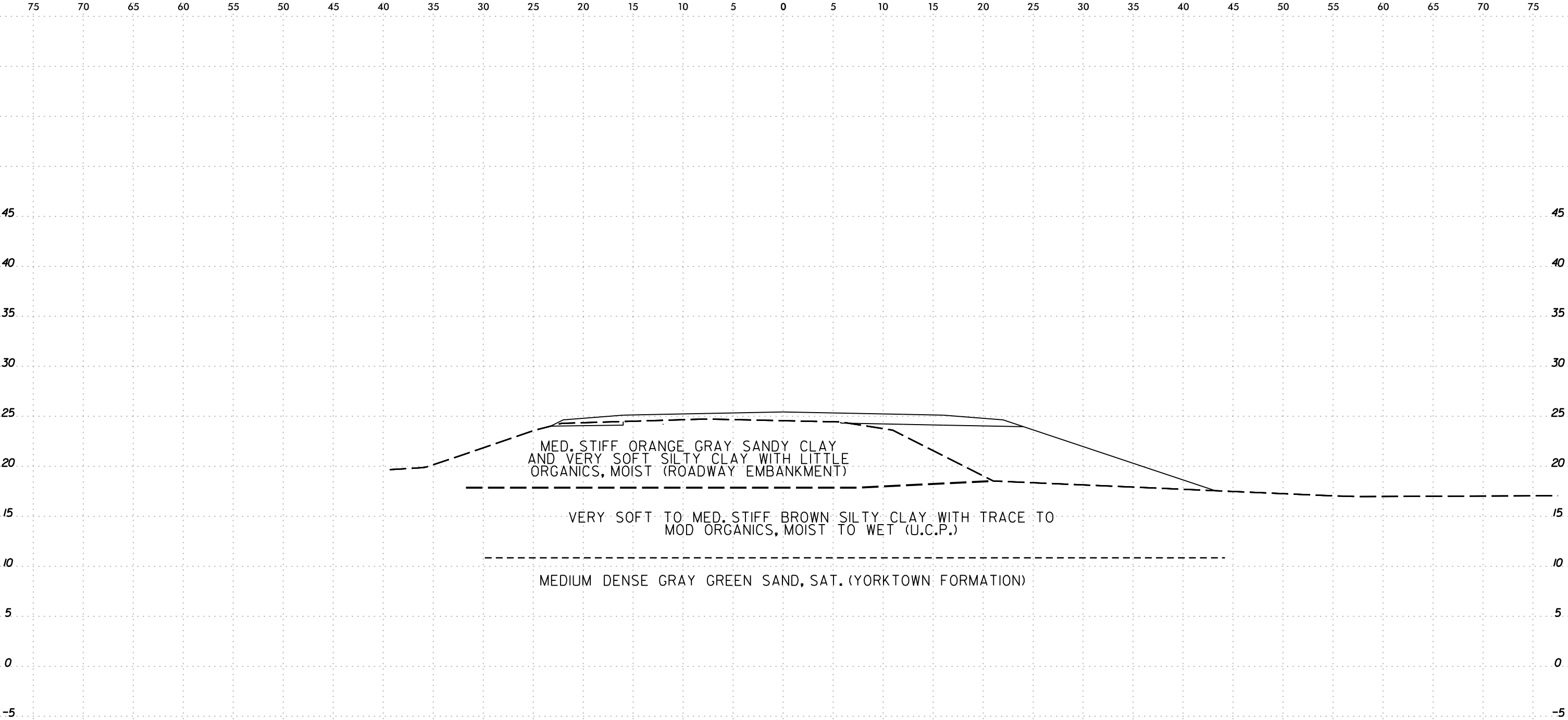
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6/23/16

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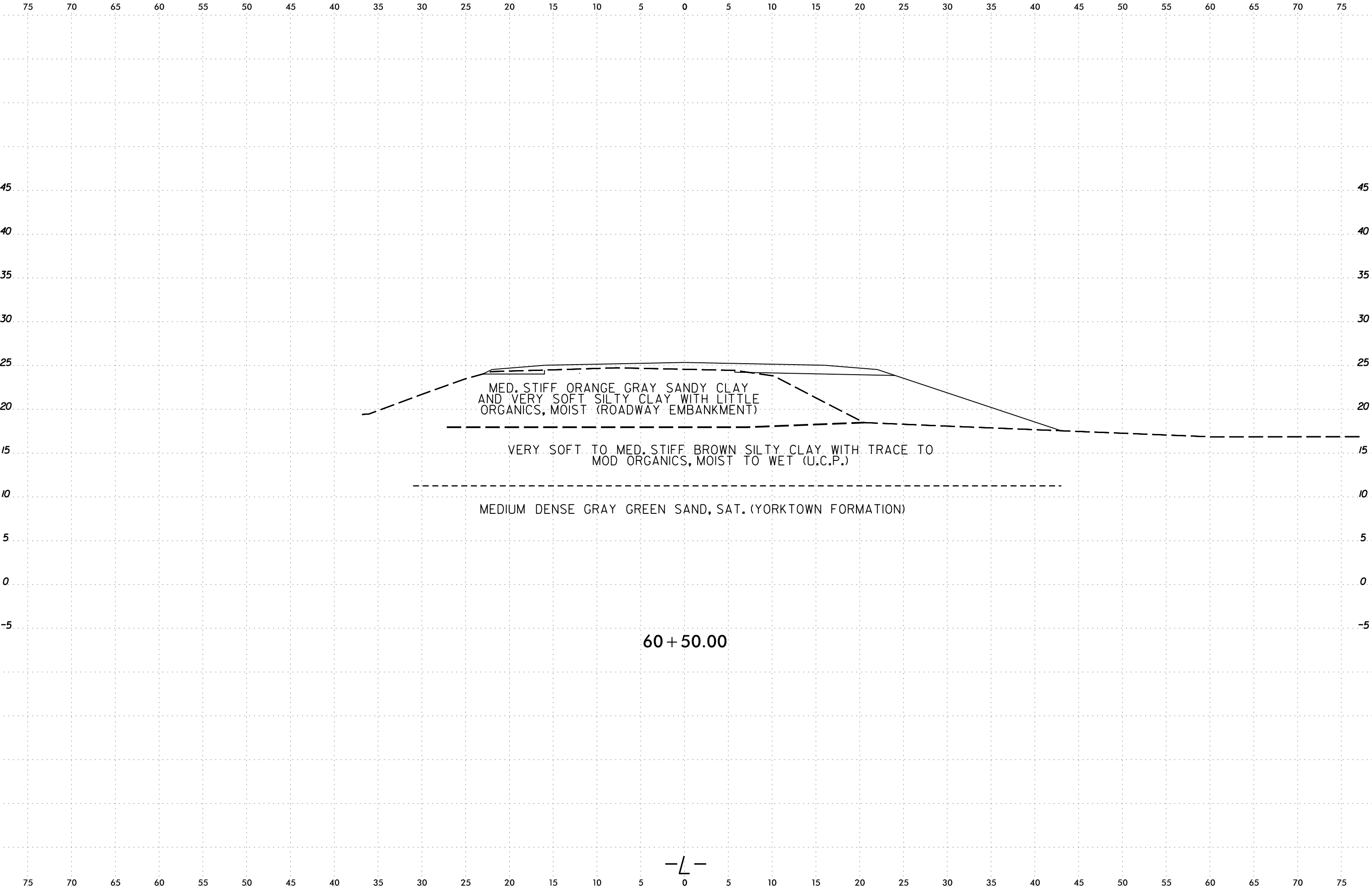
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Lee Stone AT LSTONE-CAD-PC

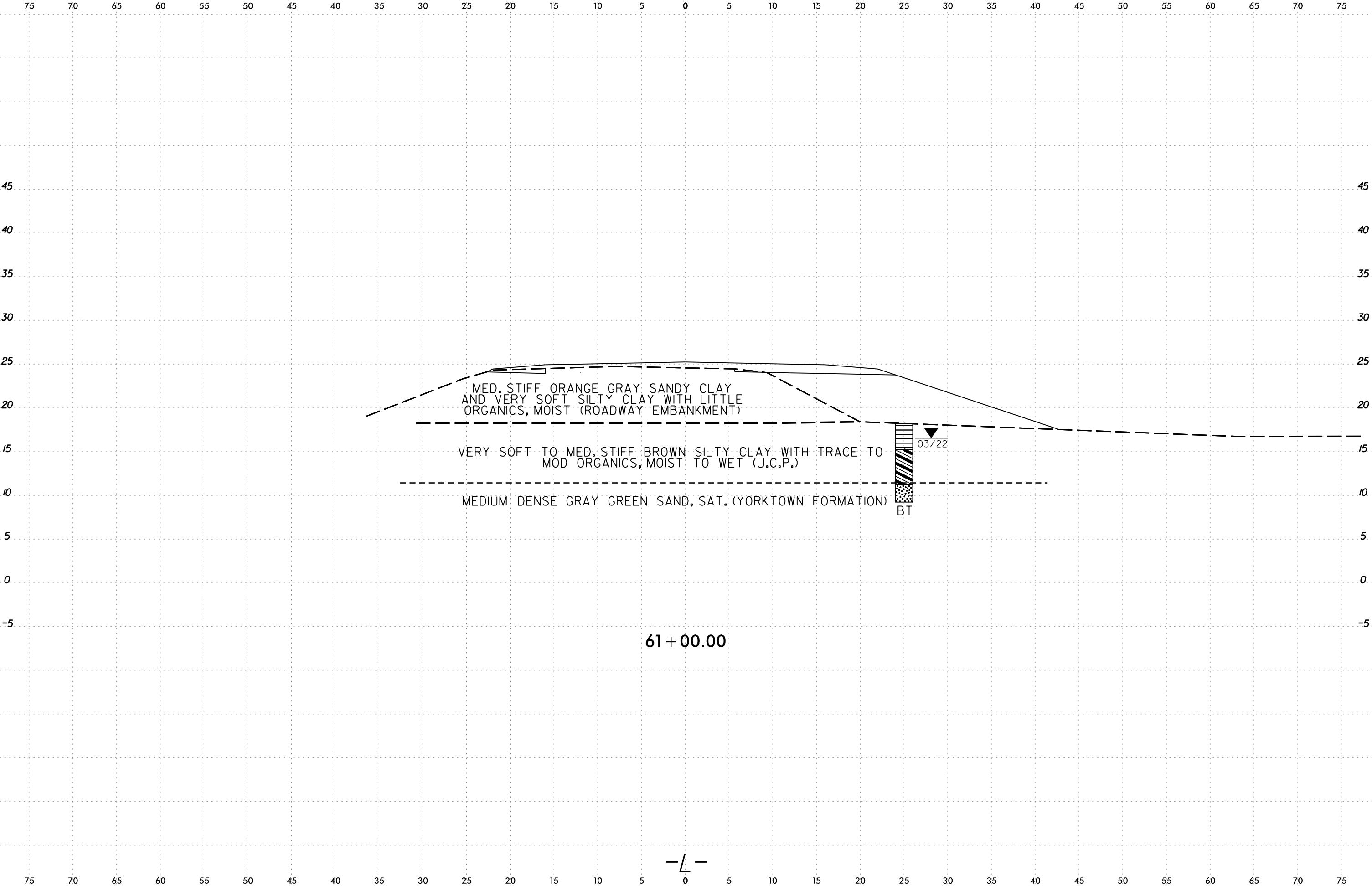
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6/23/16

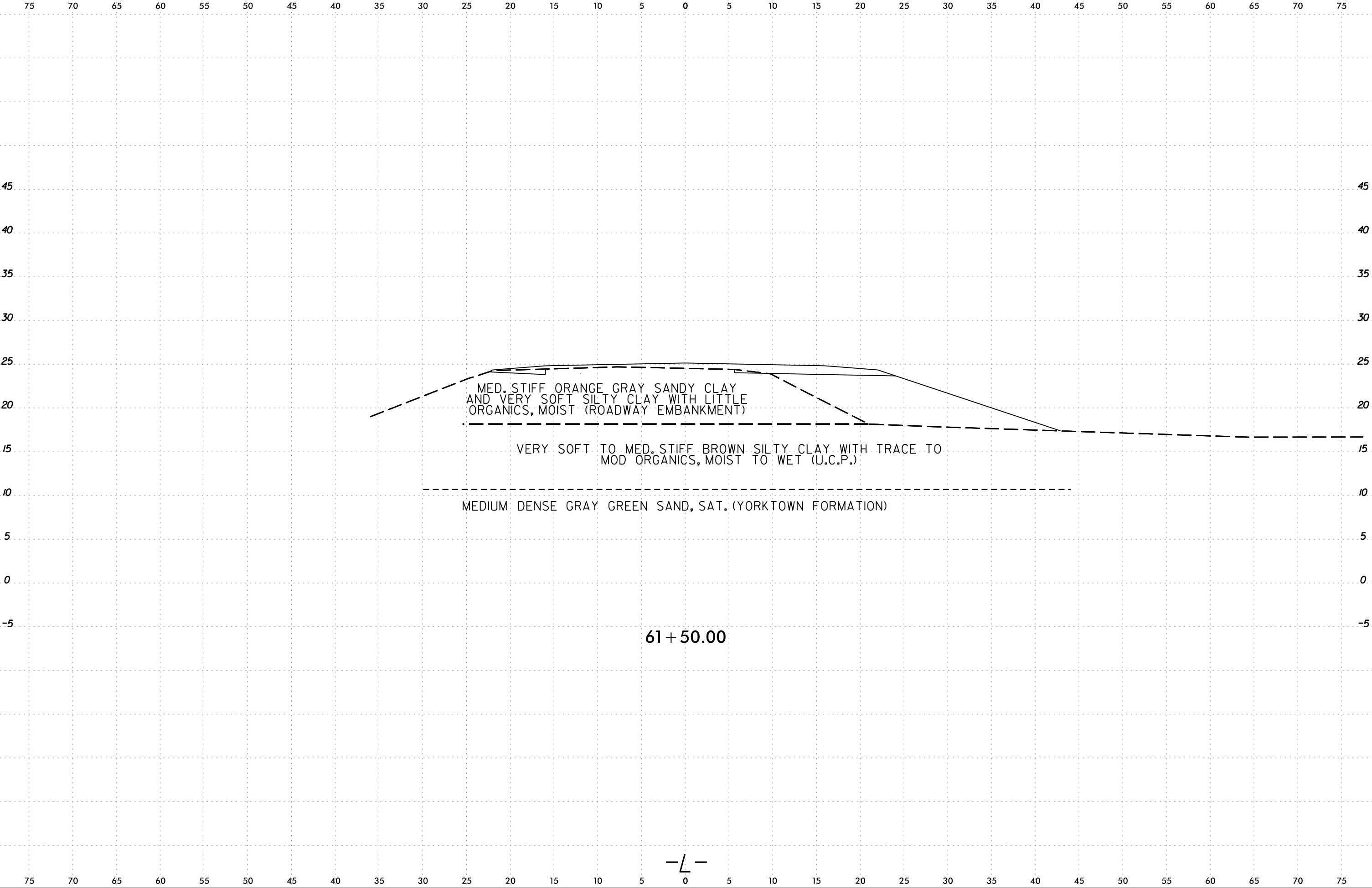
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Lee Stone AT LSTONE-CAD-PC

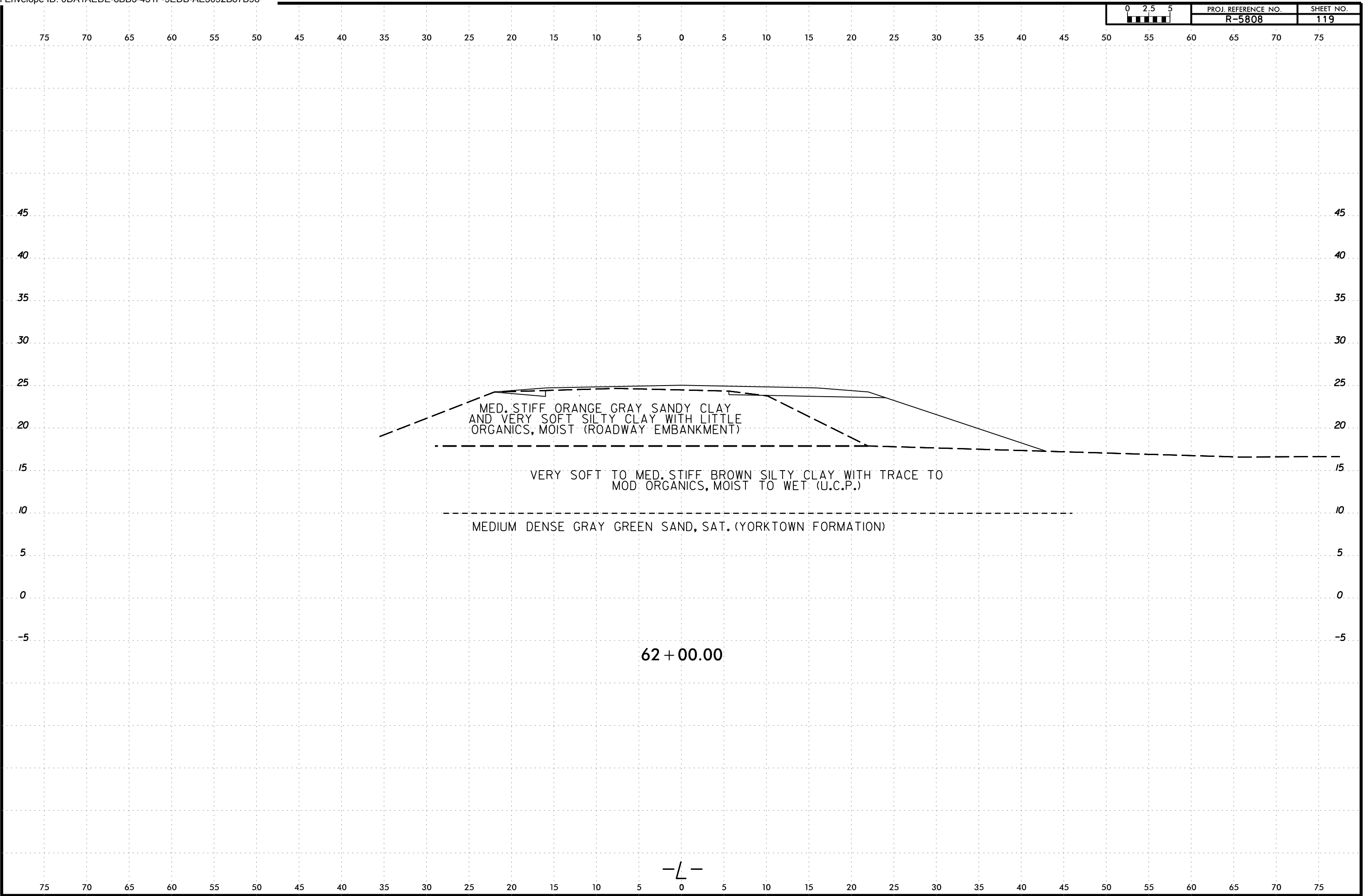
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	R-5808	117



6/23/16

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	R-5808	118

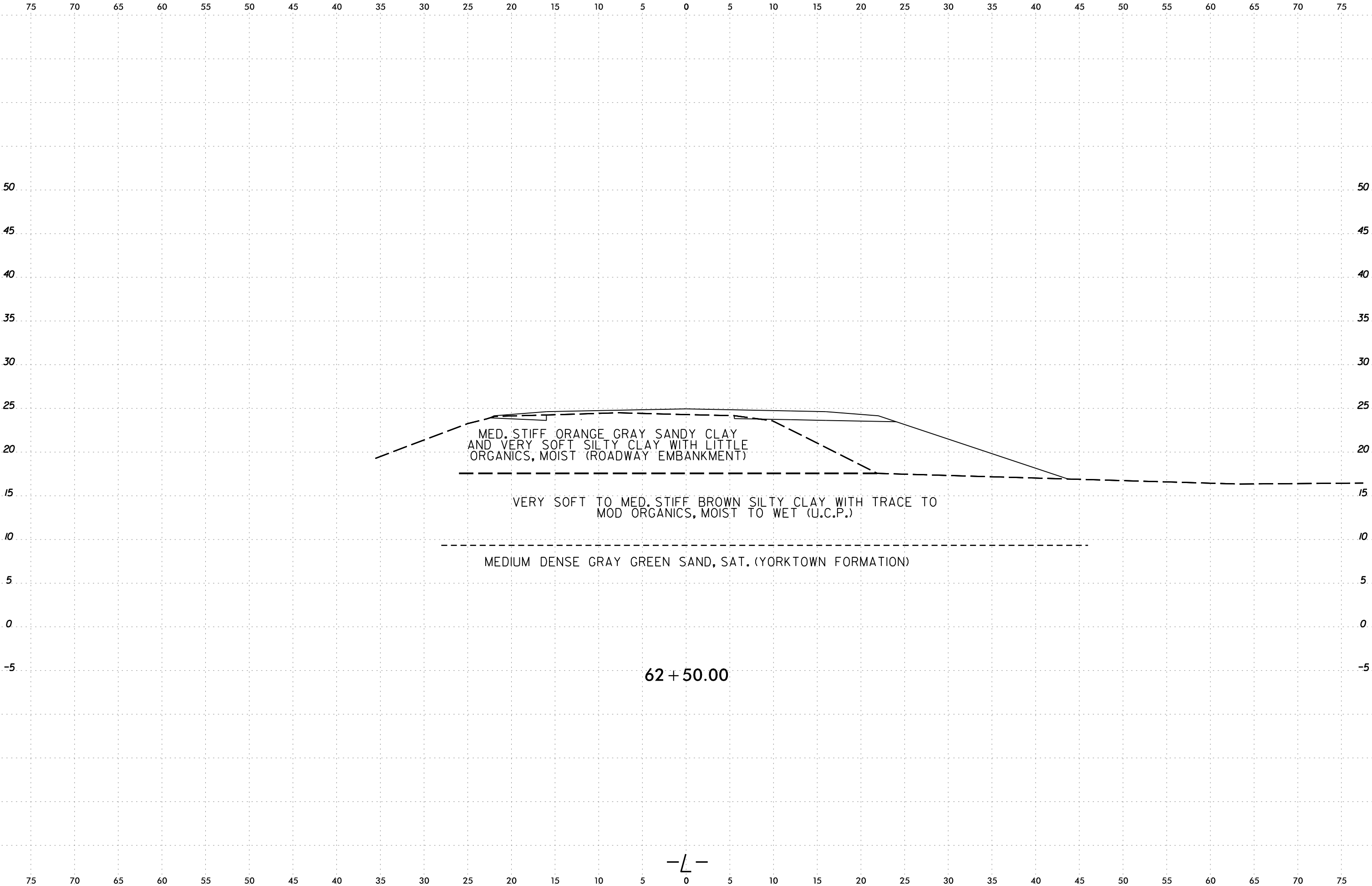




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Lee Stone AT LSTONE-CAD-PC

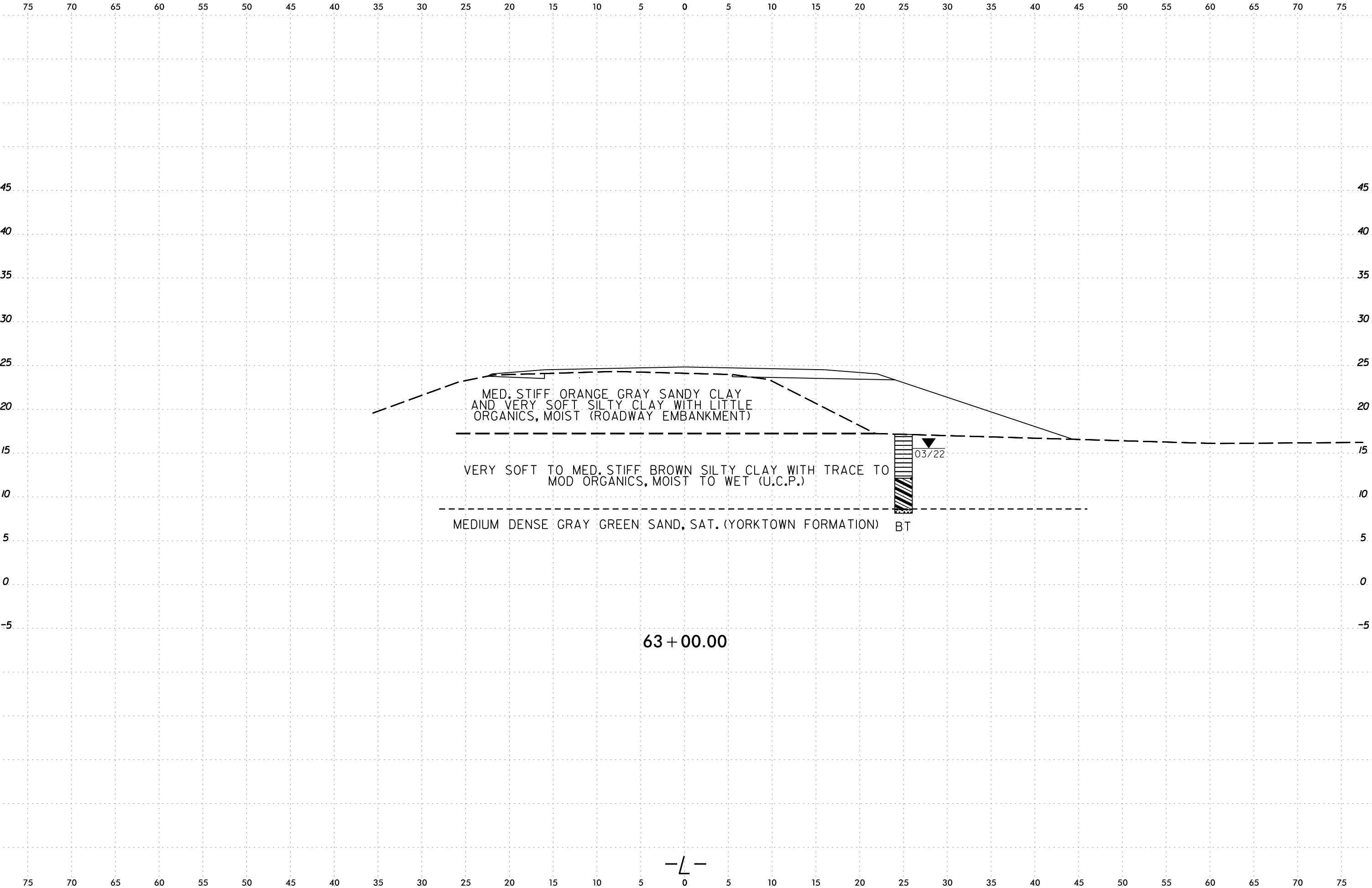
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	R-5808	120



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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	121

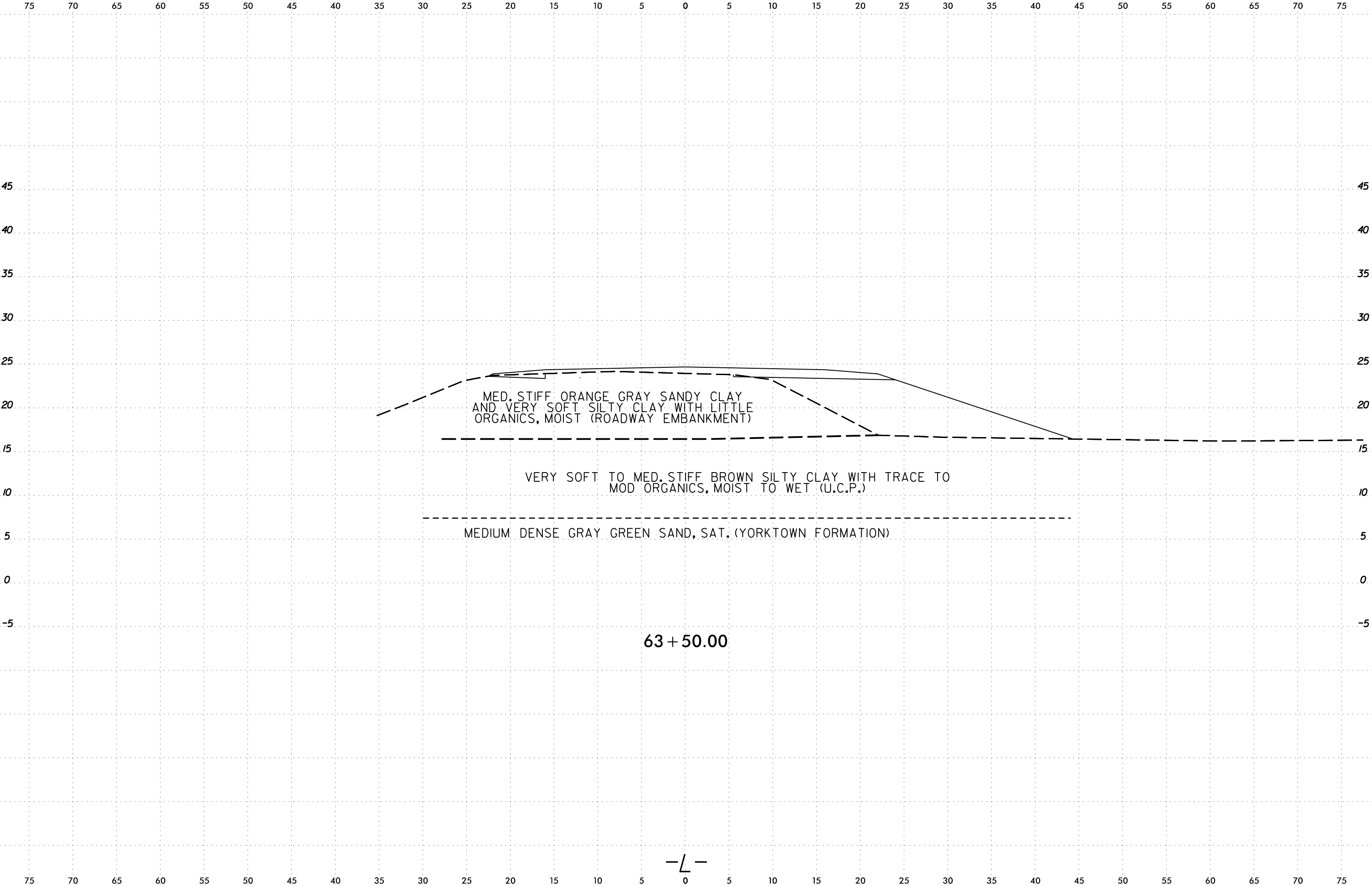


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Lee Stone AT LSTONE-CAD-PC

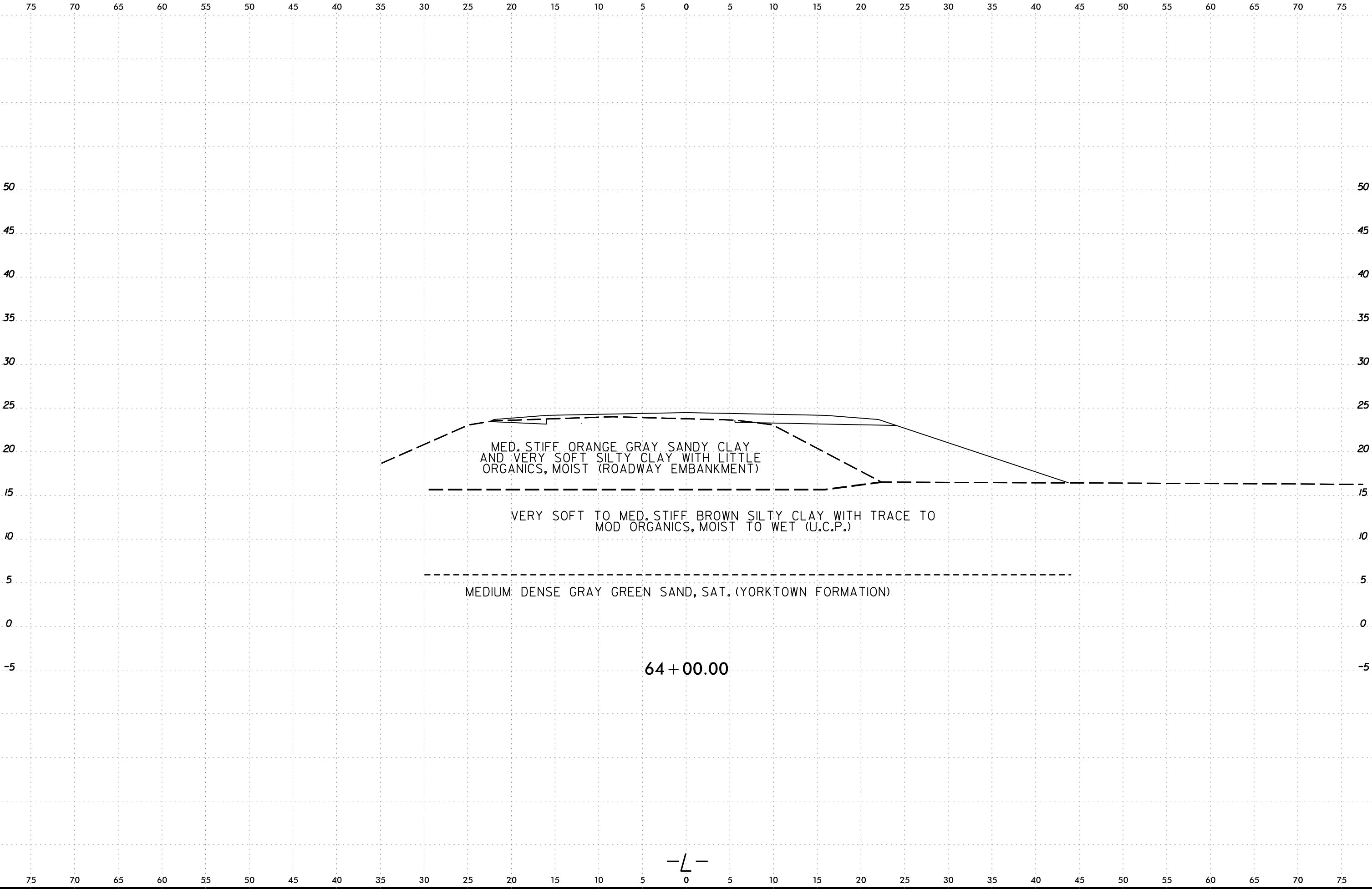
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	R-5808	122



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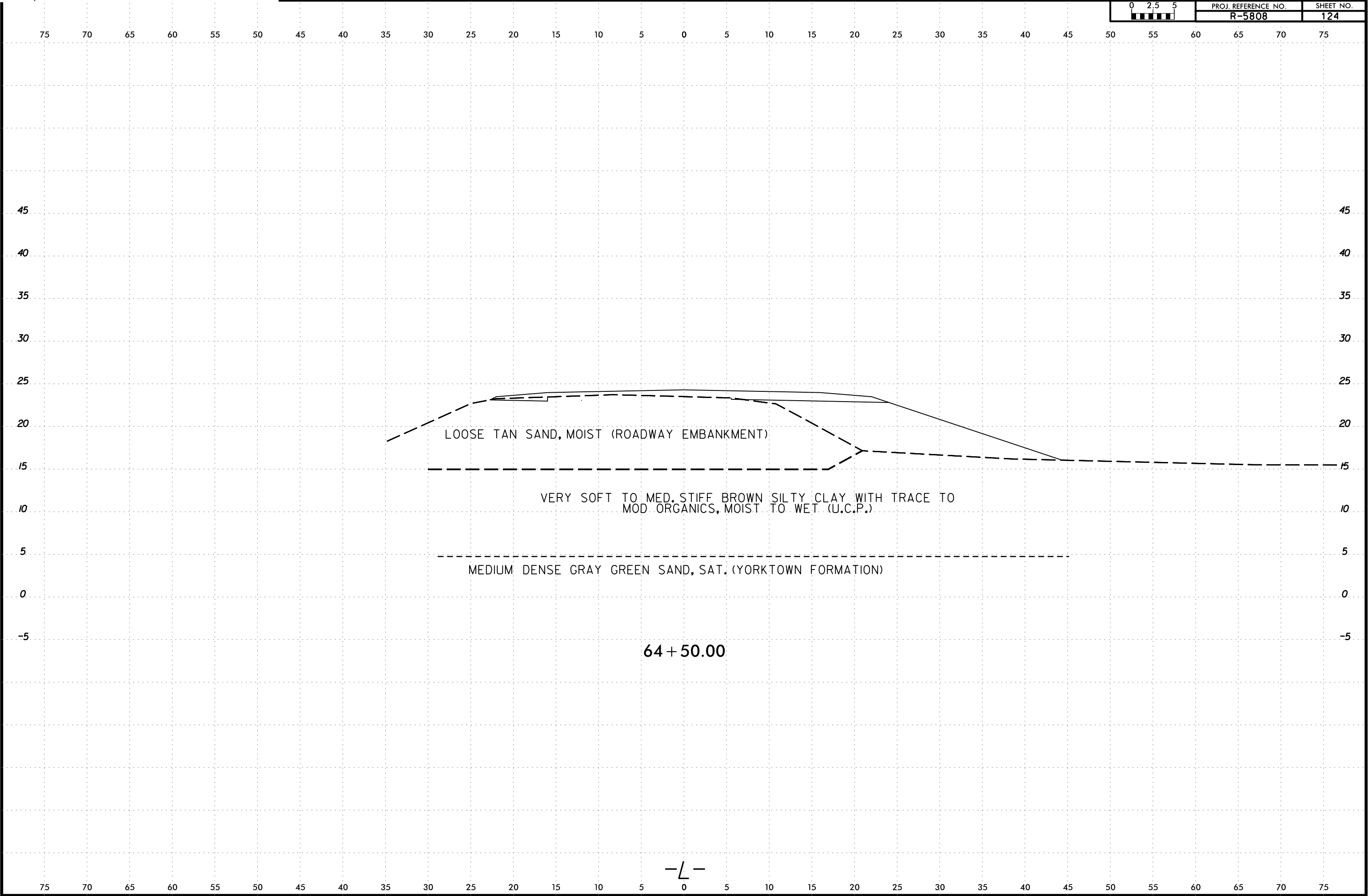
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	R-5808	123



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Lee Stone AT LSTONE-CAD-PC

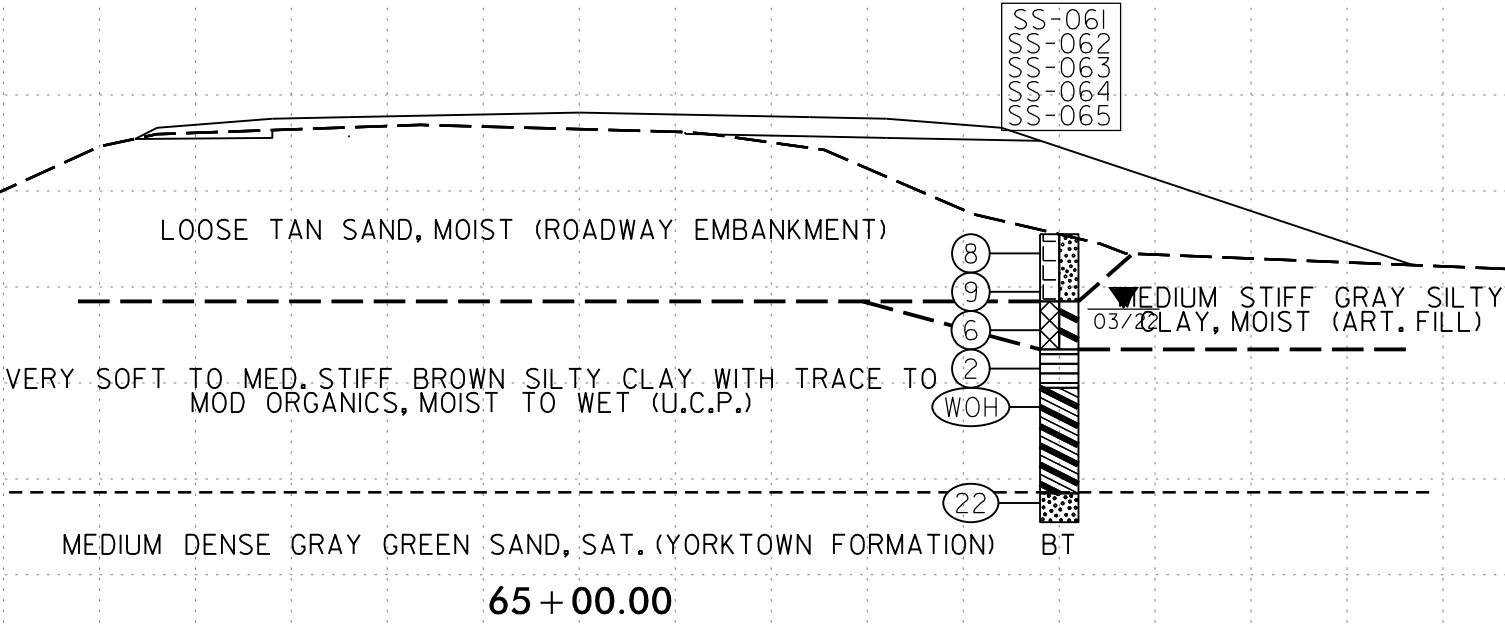
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	R-5808	124



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Lee Stone AT LSTONE-CAD-PC

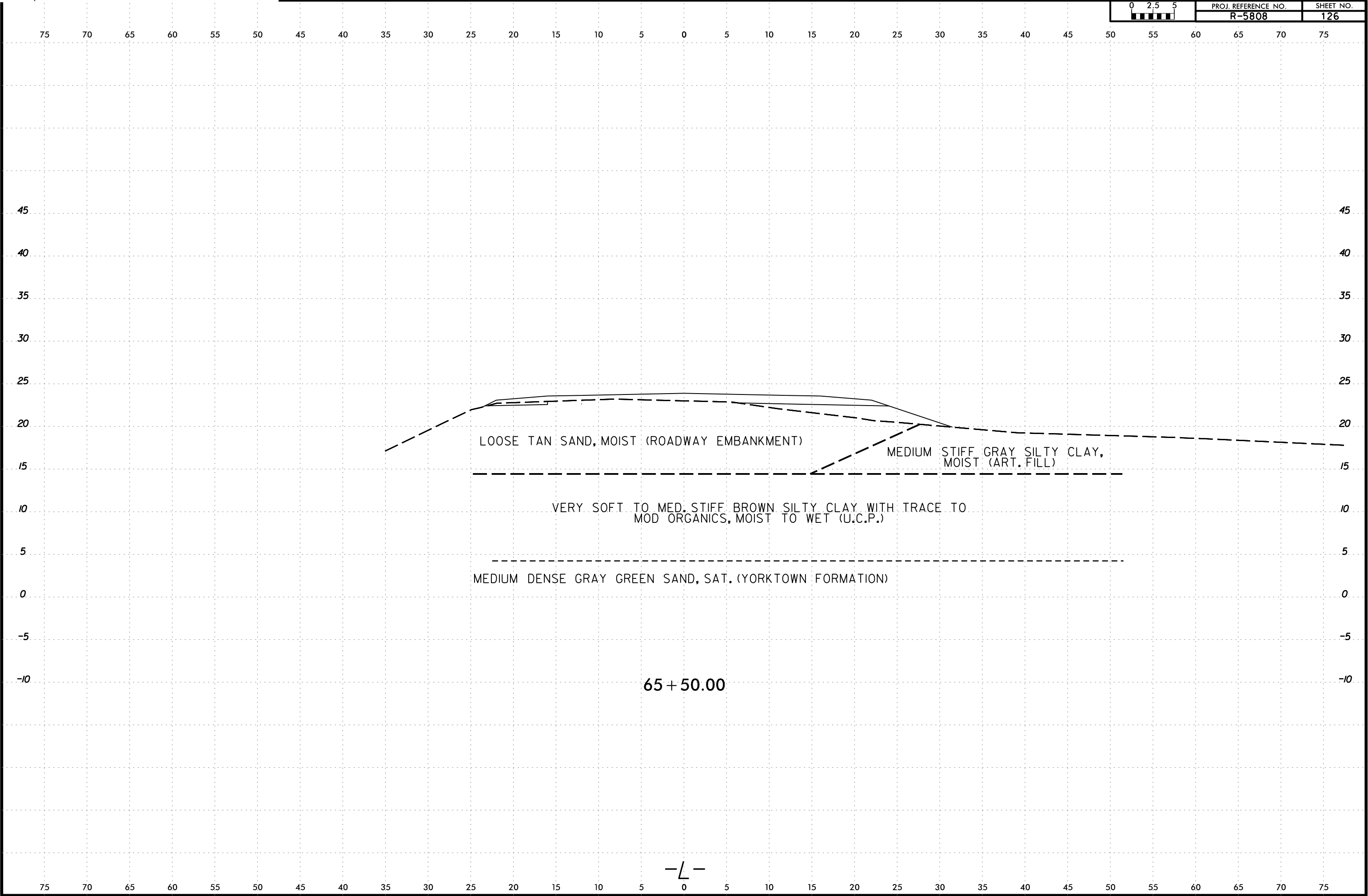
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-061	25 ft RT	65+00	0.0 - 2.0	A-2-4(0)	NP	NP	33.4	57.6	3.8	5.2	99.6	90	11	-	-
SS-062	25 ft RT	65+00	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	-	-



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	126

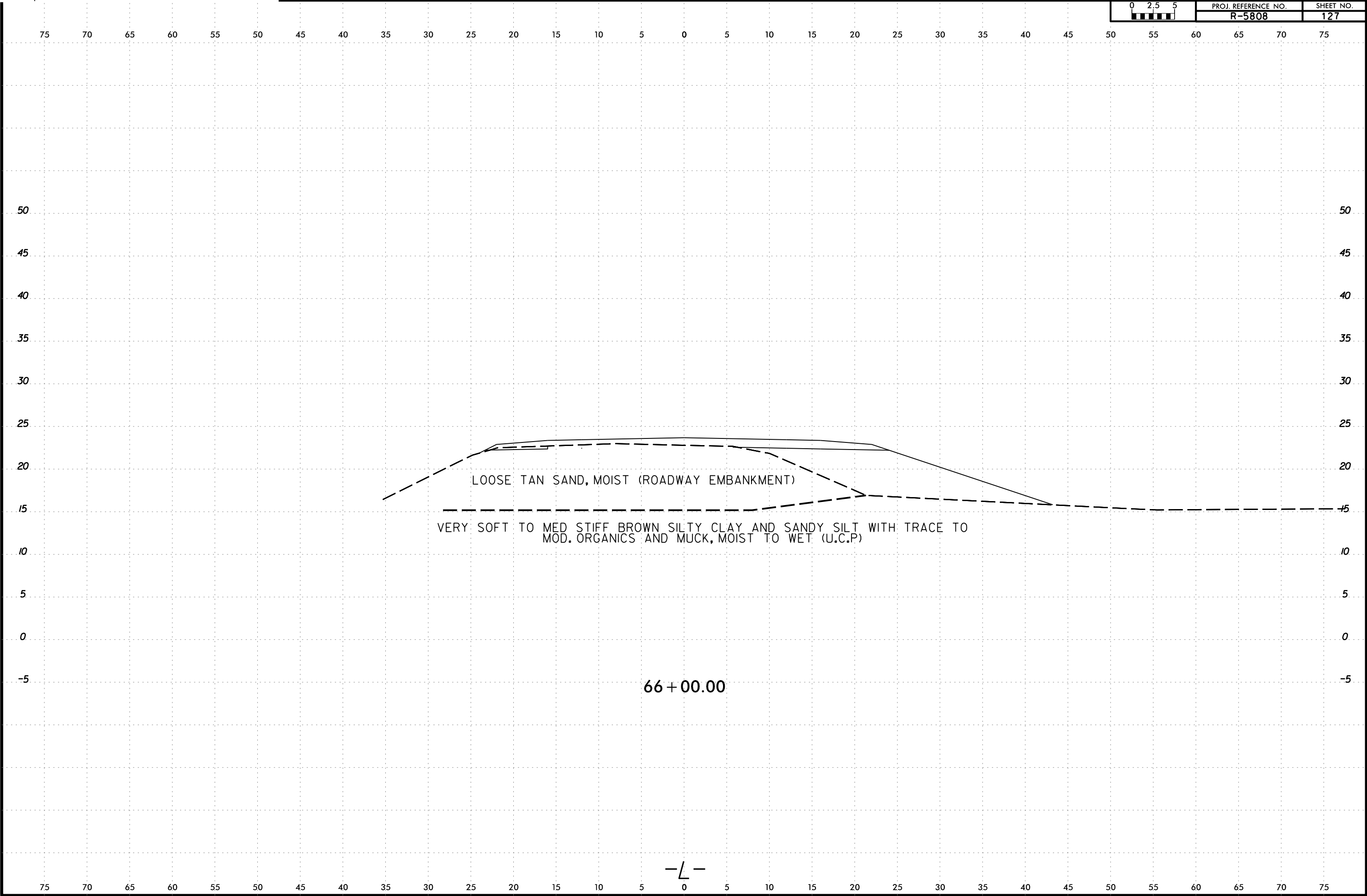


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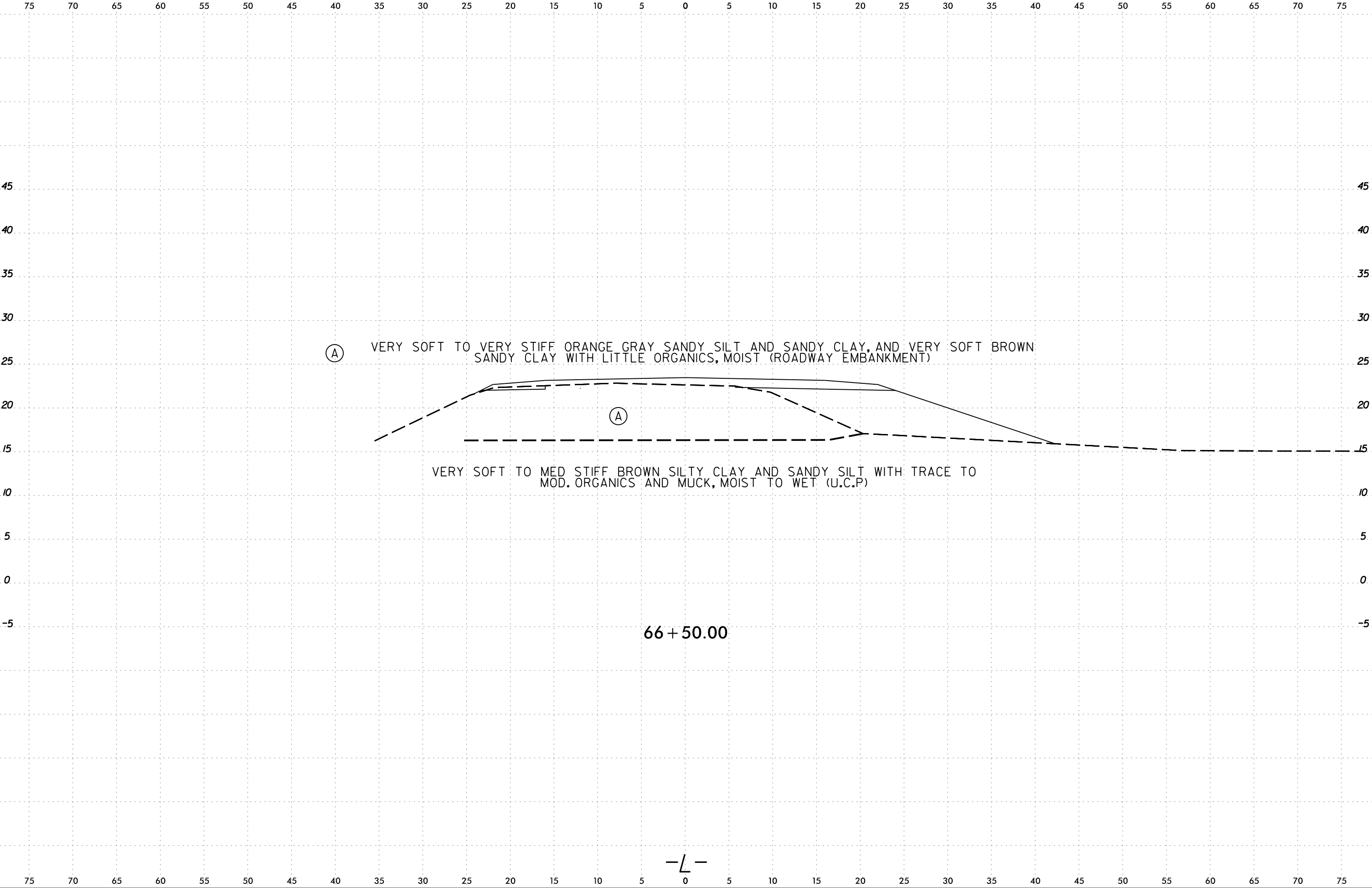
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Lee Stone - CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	127



6/23/16

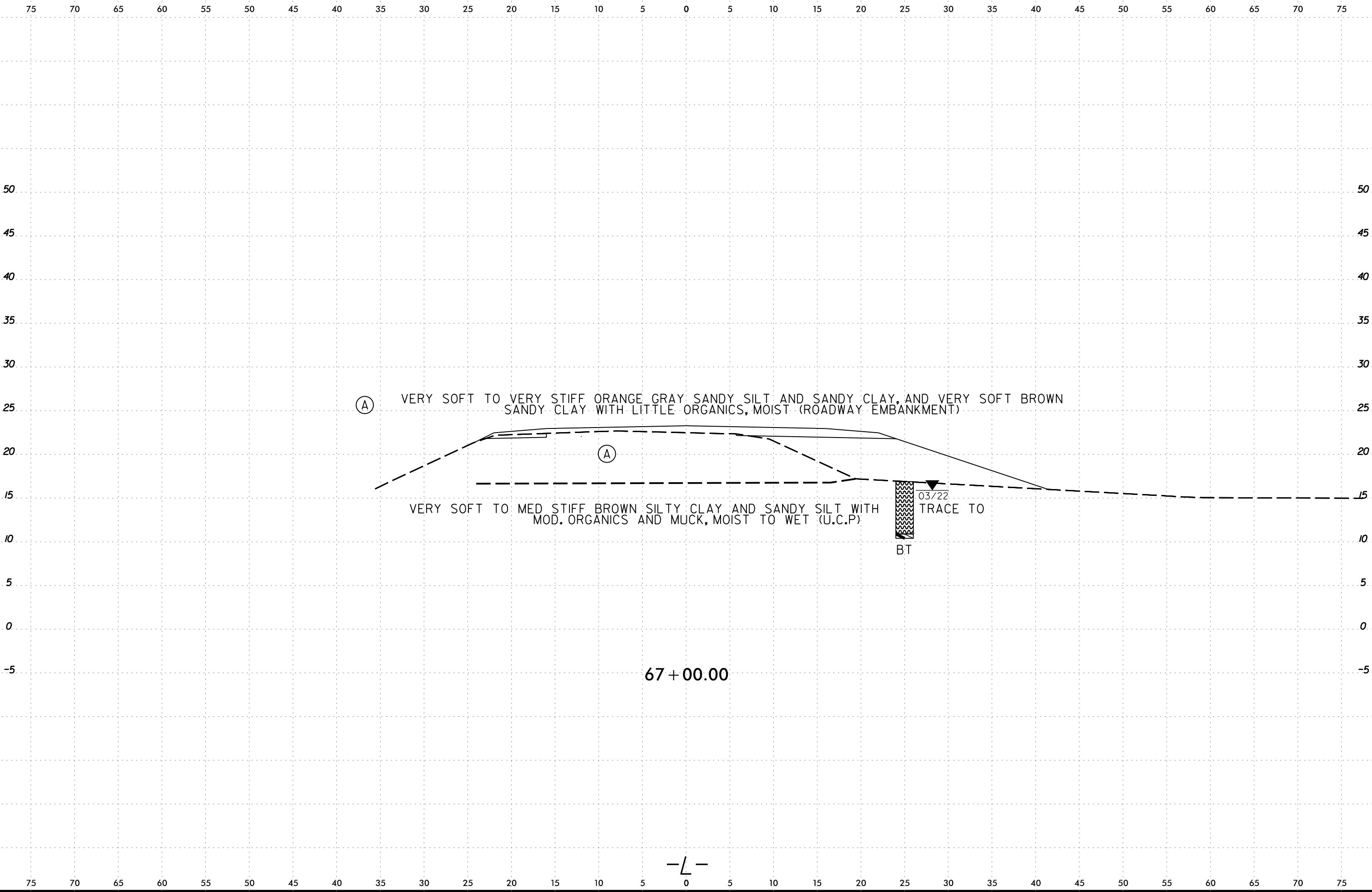
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	R-5808	128



6/23/16

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Lee Stone AT LSTONE-CAD-PC

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	R-5808	129

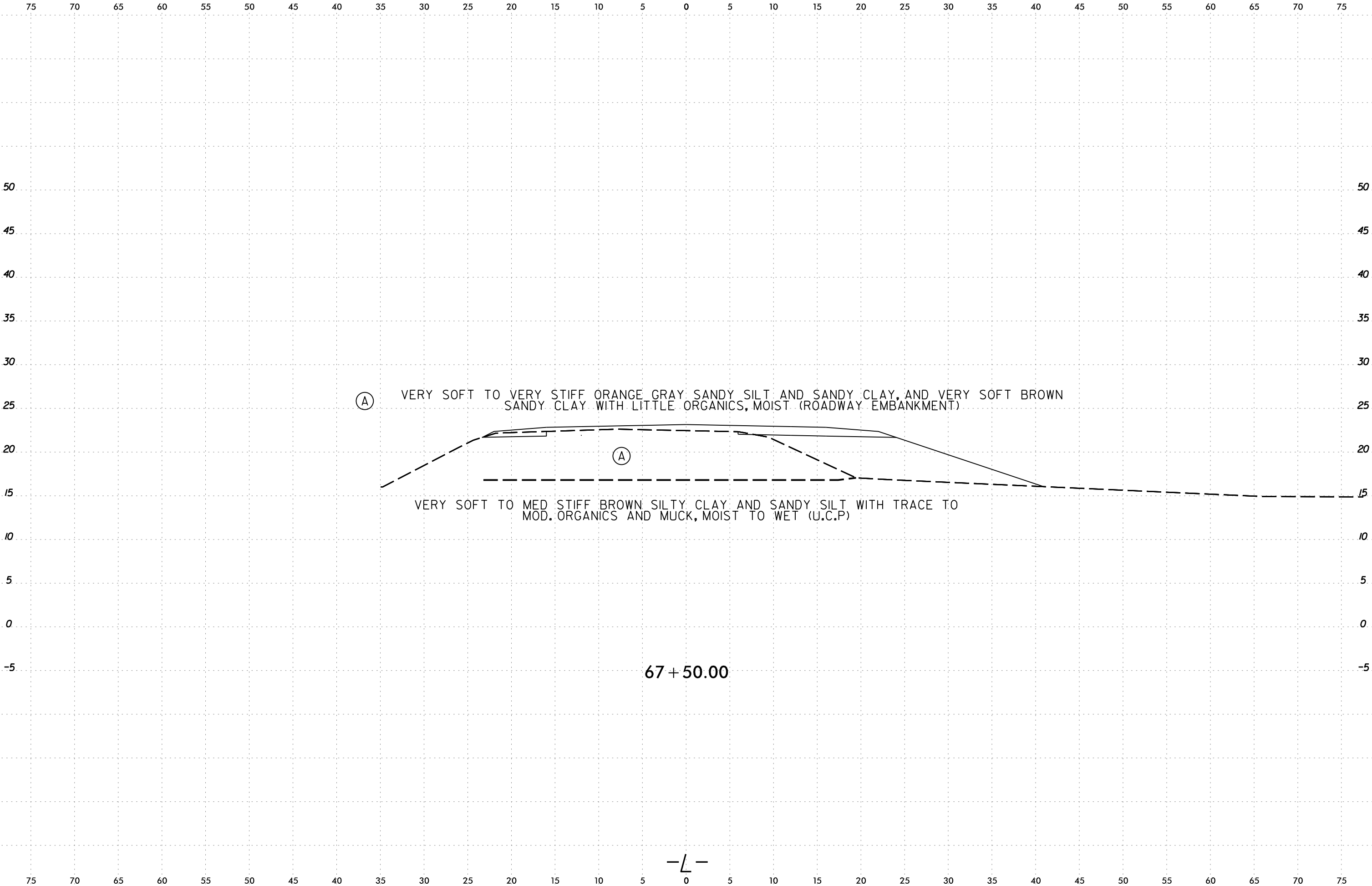


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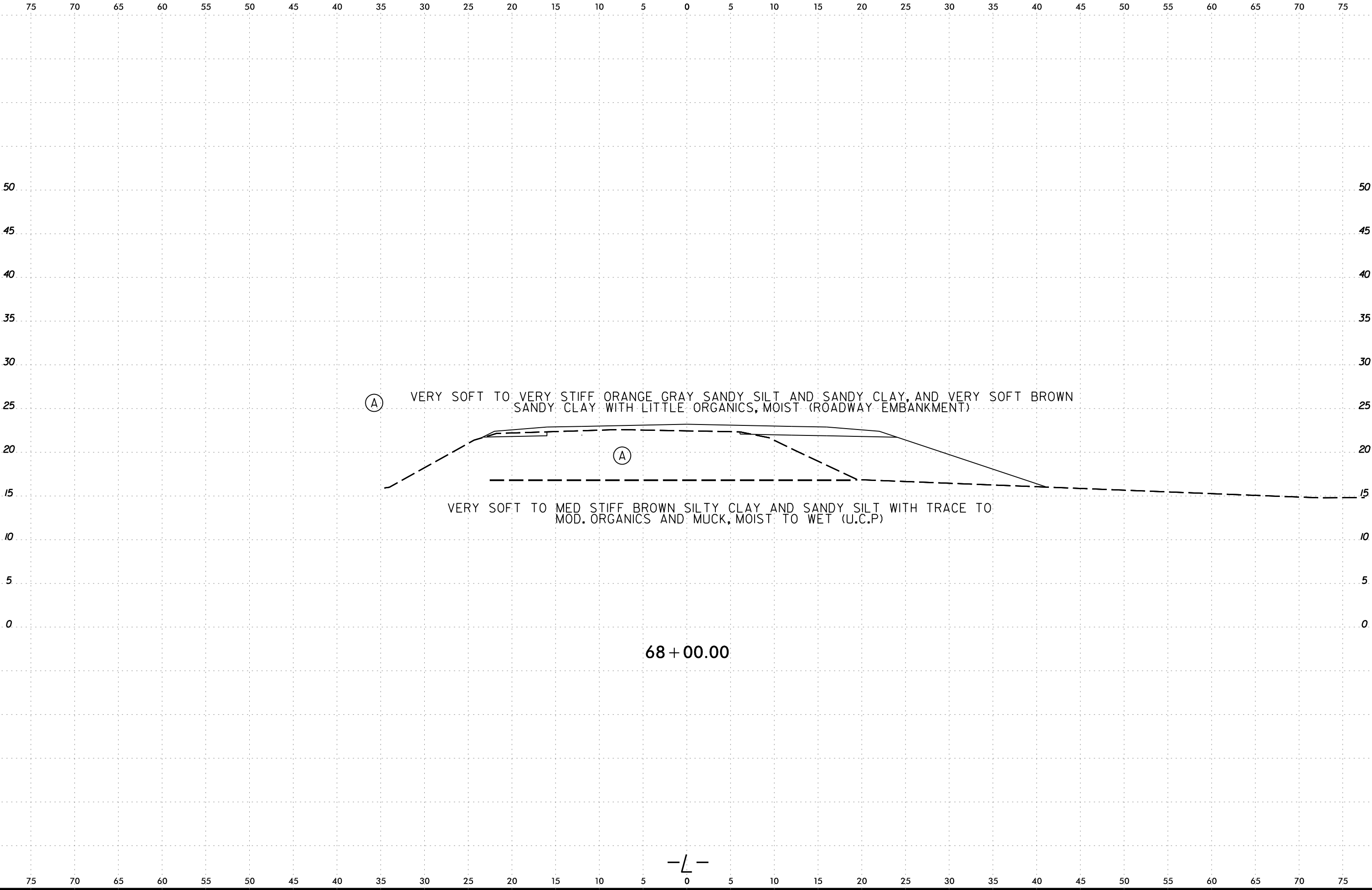
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	R-5808	130



6/23/16

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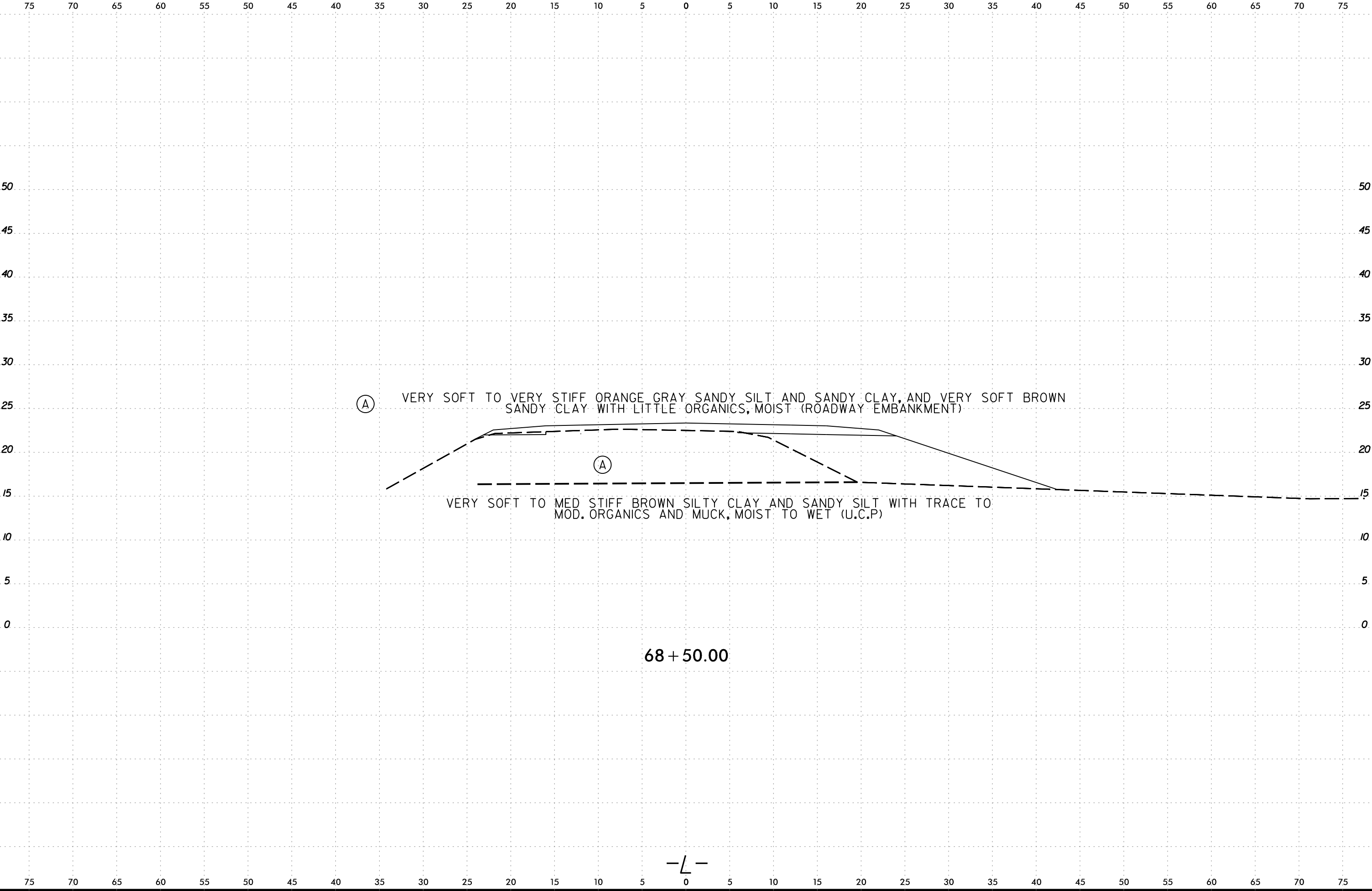
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	R-5808	131



6/23/16

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Lee Stone AT LSTONE-CAD-PC

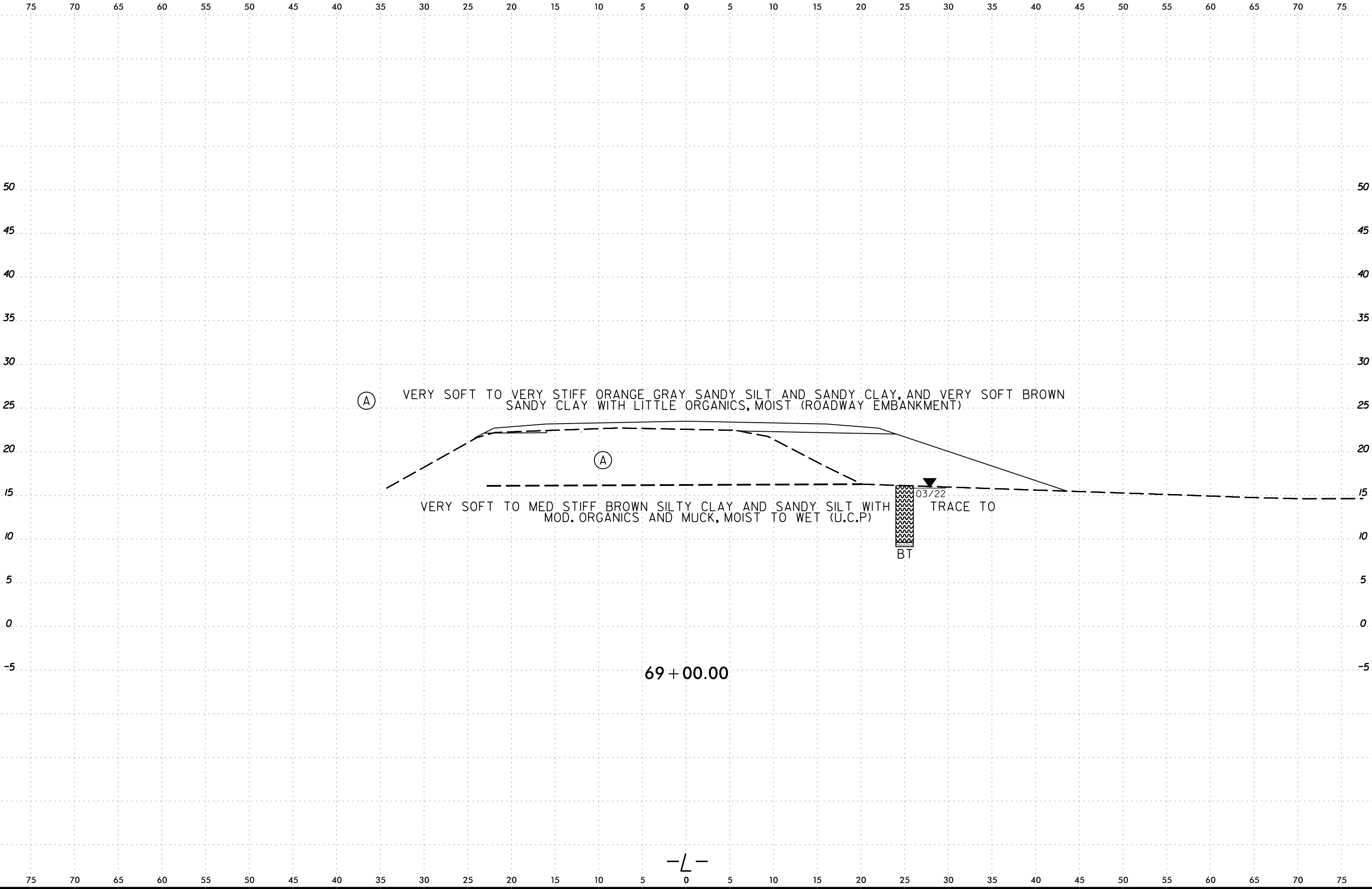
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	132



6/23/16

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Lee Stone AT LSTONE-CAD-PC

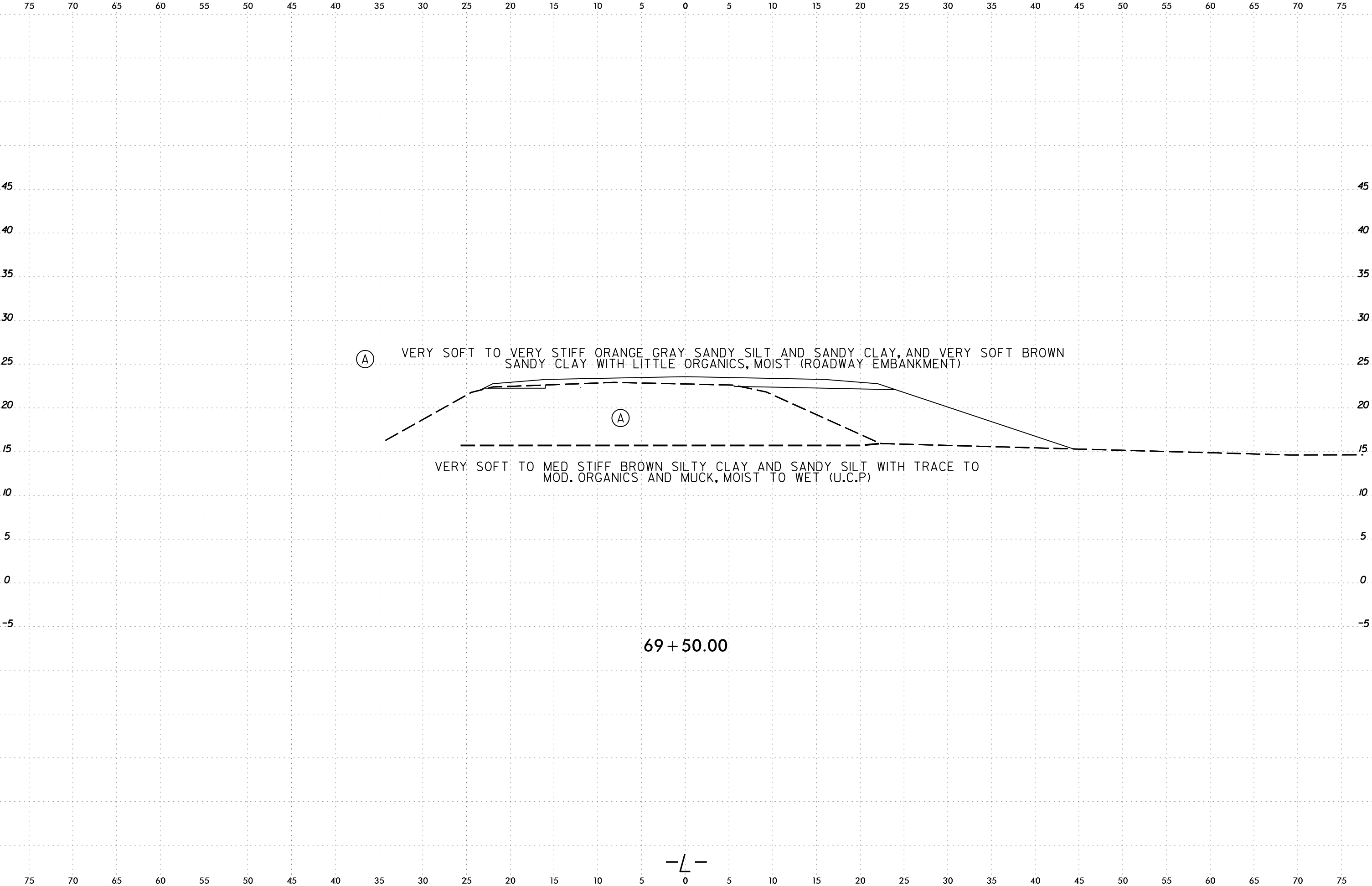
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	R-5808	133



6/23/16

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Lee Stone AT LSTONE-CAD-PC

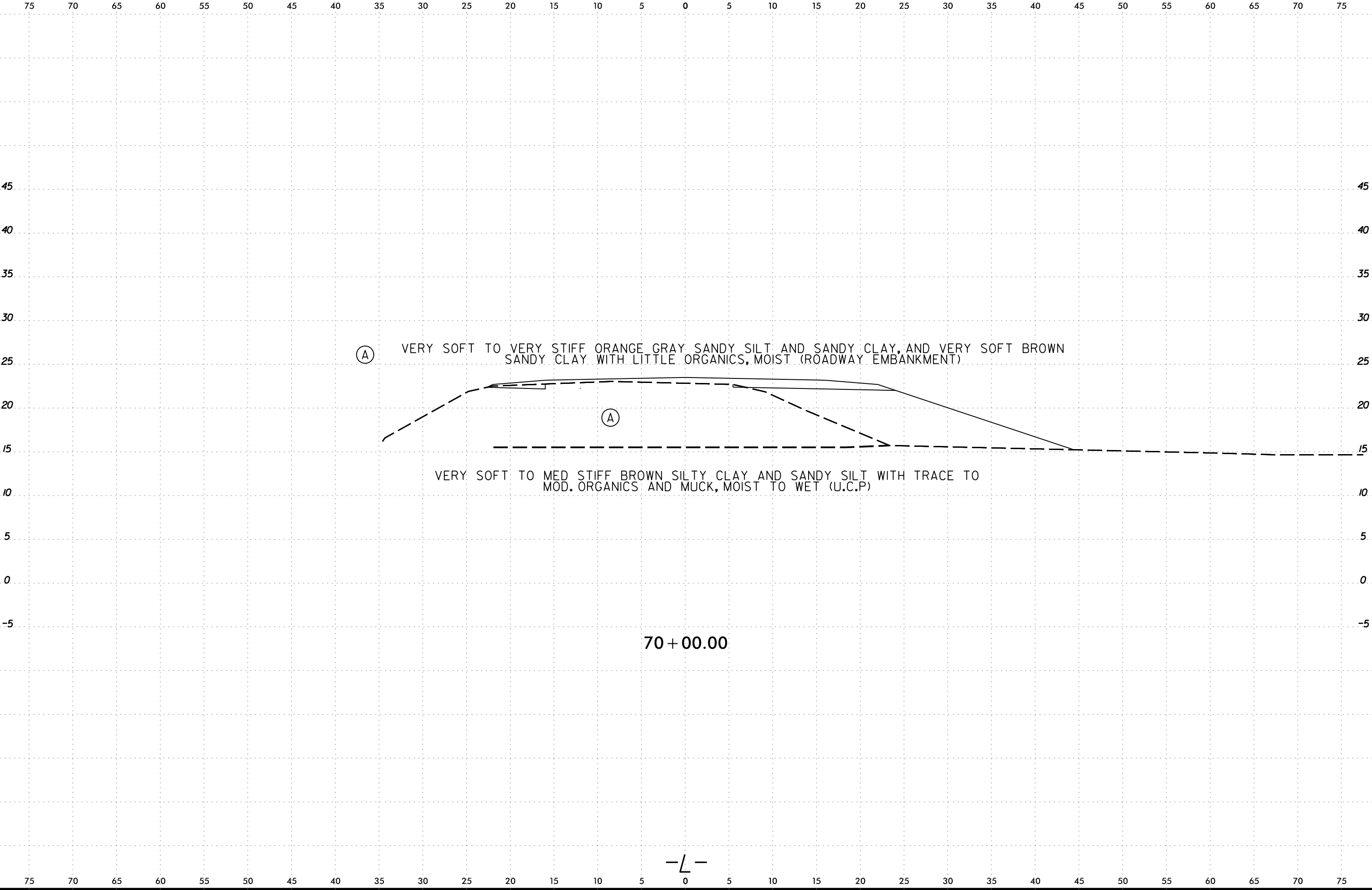
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	R-5808	134



6/23/16

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Lee Stone AT LSTONE-CAD-PC

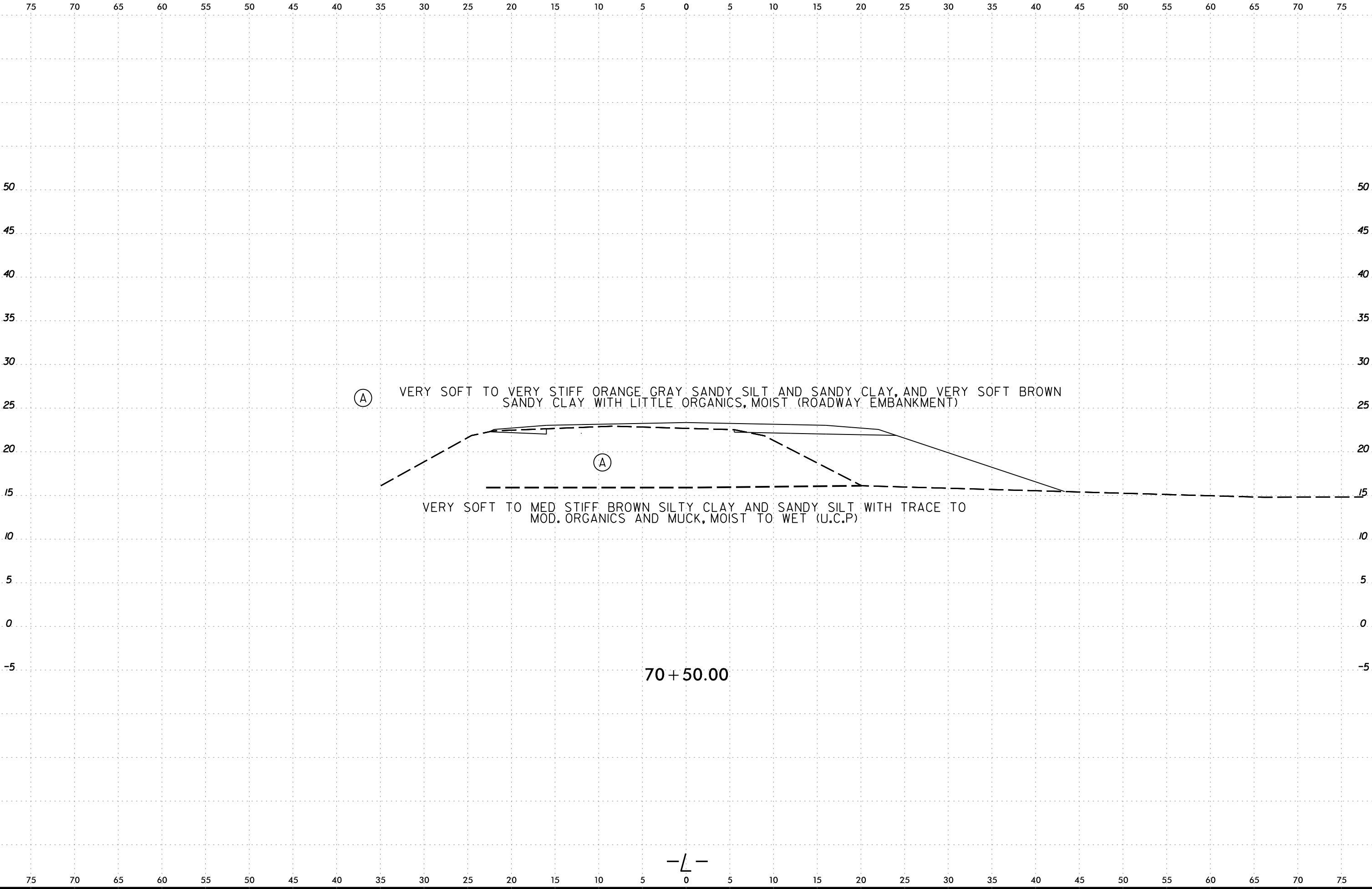
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	R-5808	135



6/23/16

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Lee Stone AT LSTONE-CAD-PC

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

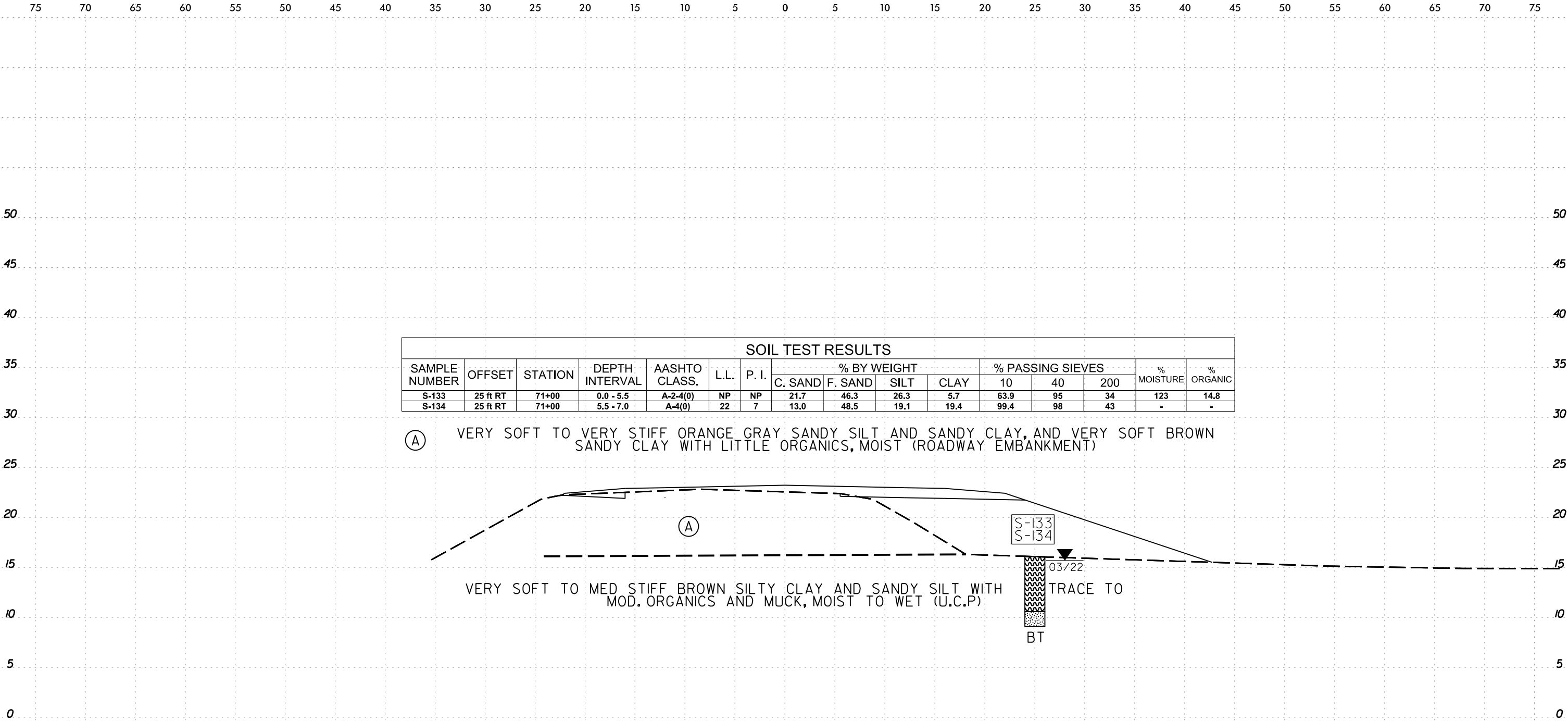


6/23/16



PROJ. REFERENCE NO.
R-5808

SHEET NO.
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)

(A)

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

S-133
S-134

03/22

TRACE TO

BT

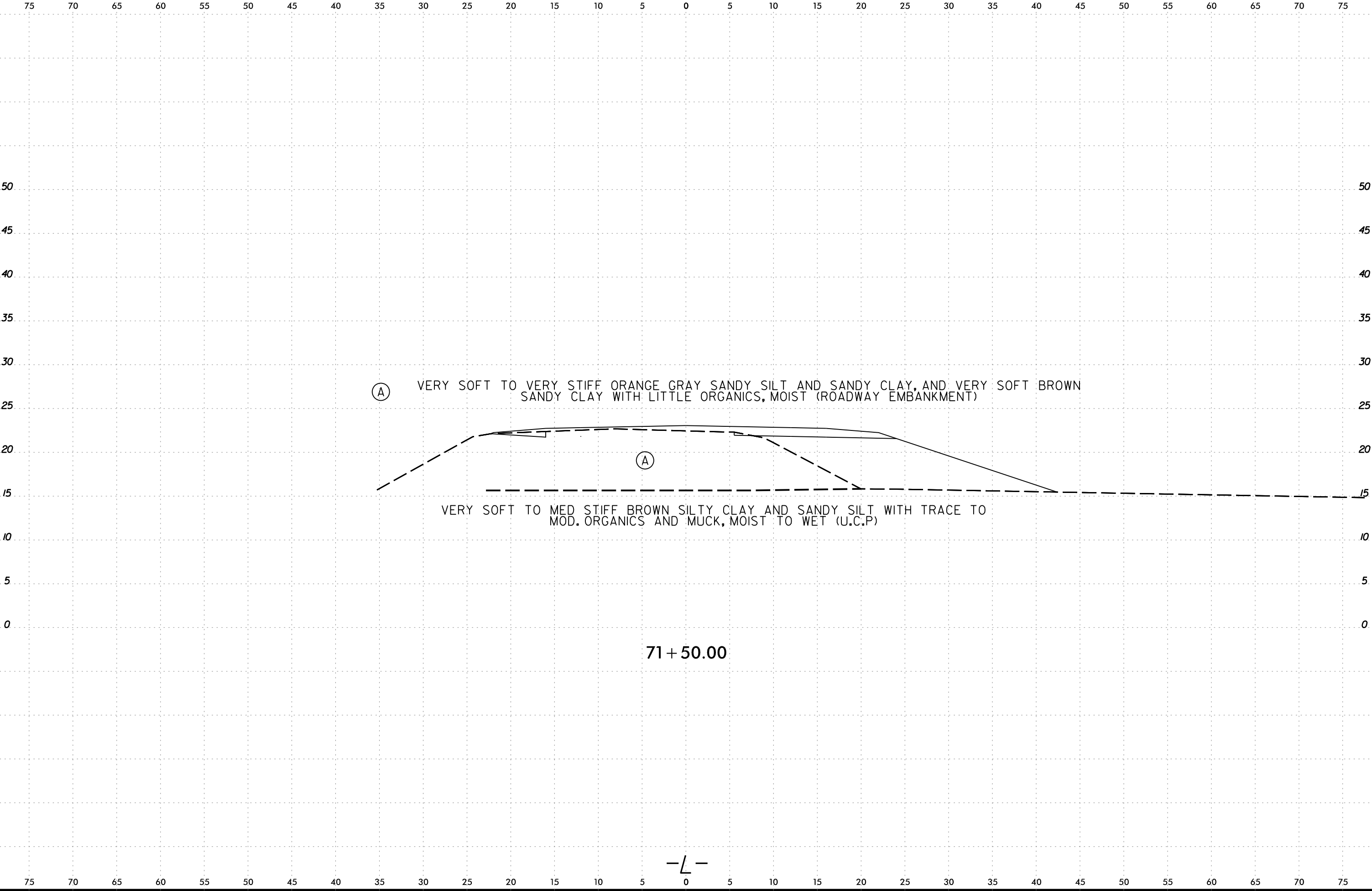
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-L-

6/23/16

10-JAN-2023 11:54
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	138

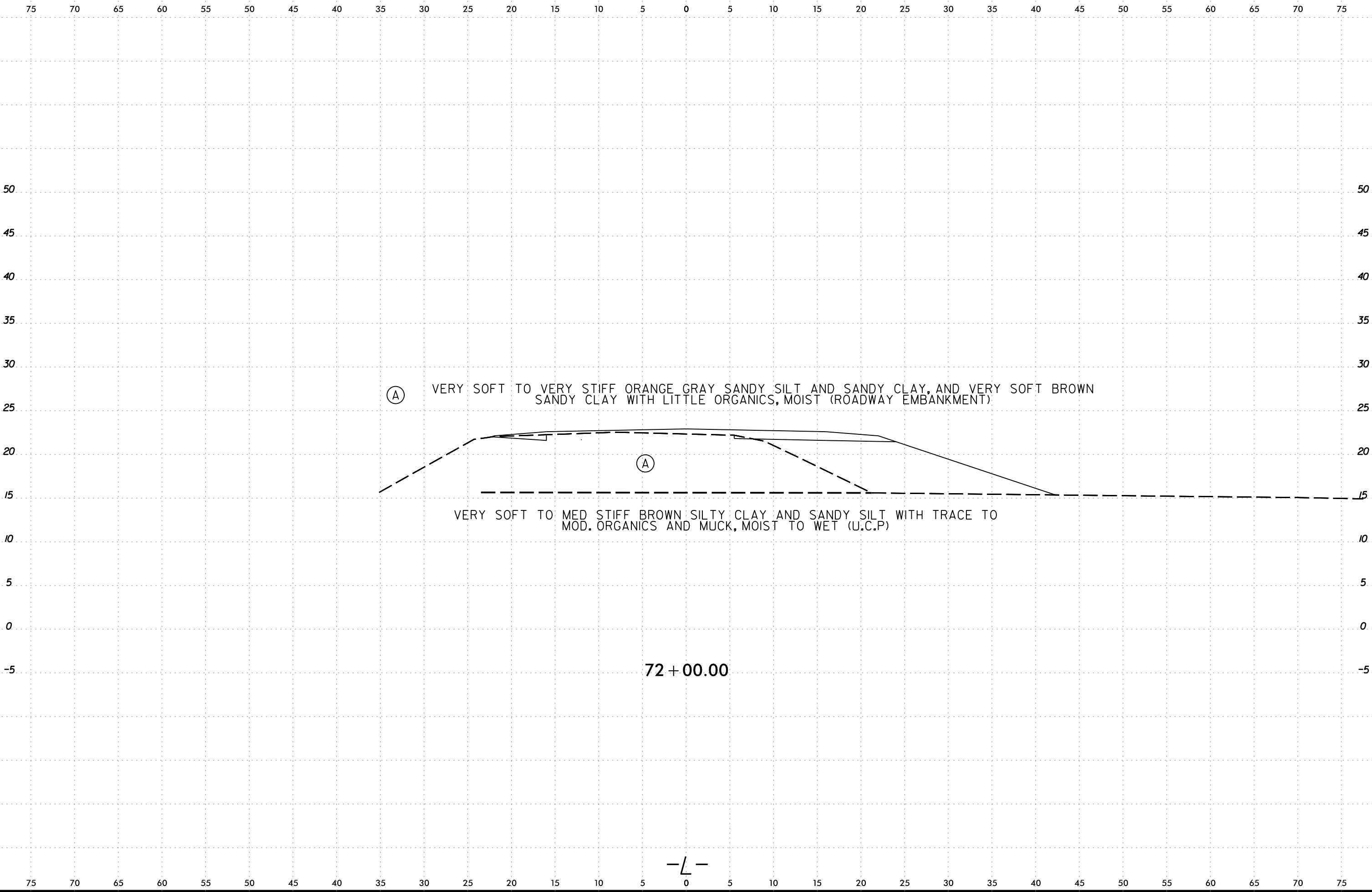


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Lee Stone AT LSTONE-CAD-PC

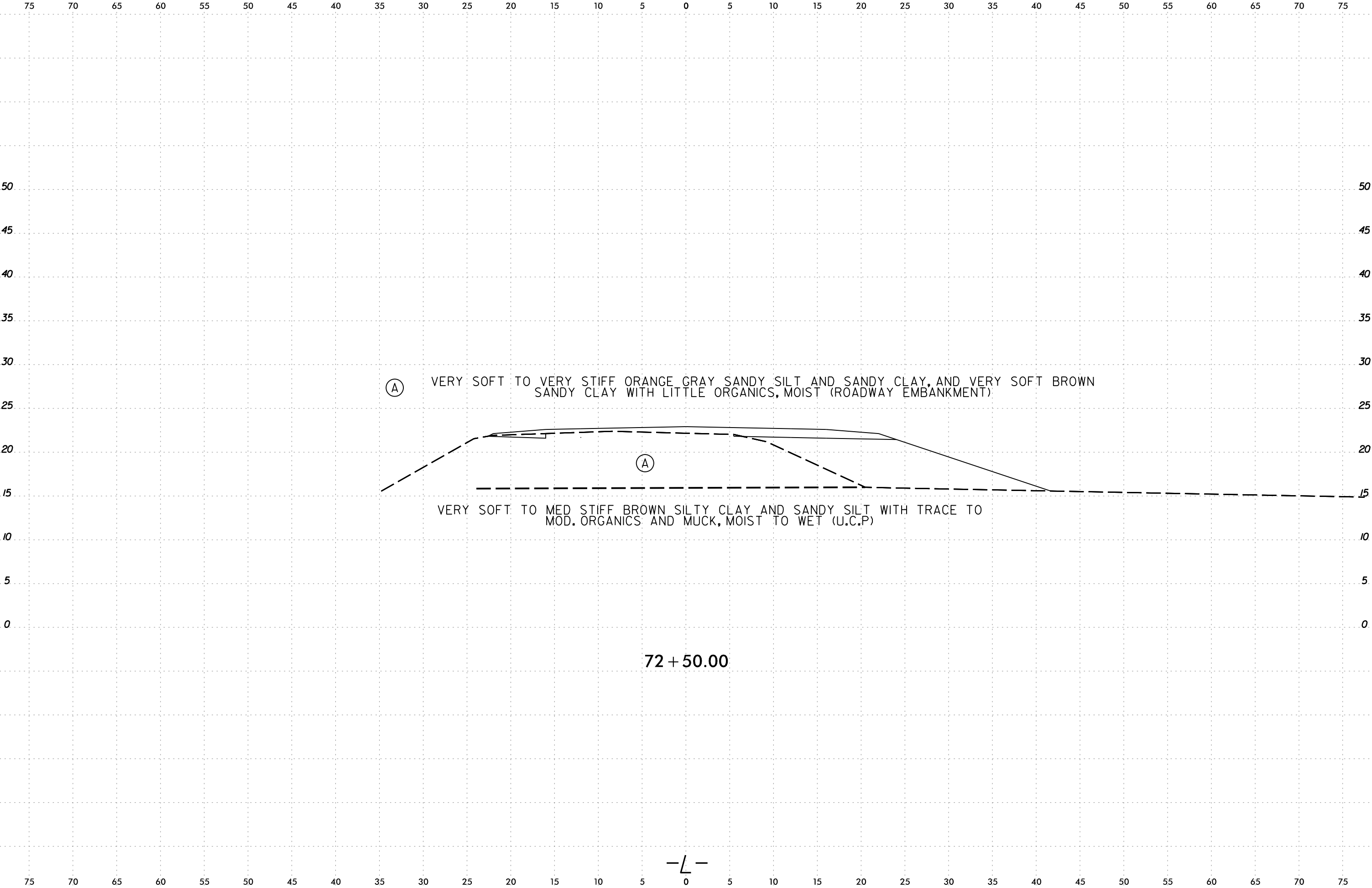
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	139



6/23/16

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Lee Stone - CAD-PC

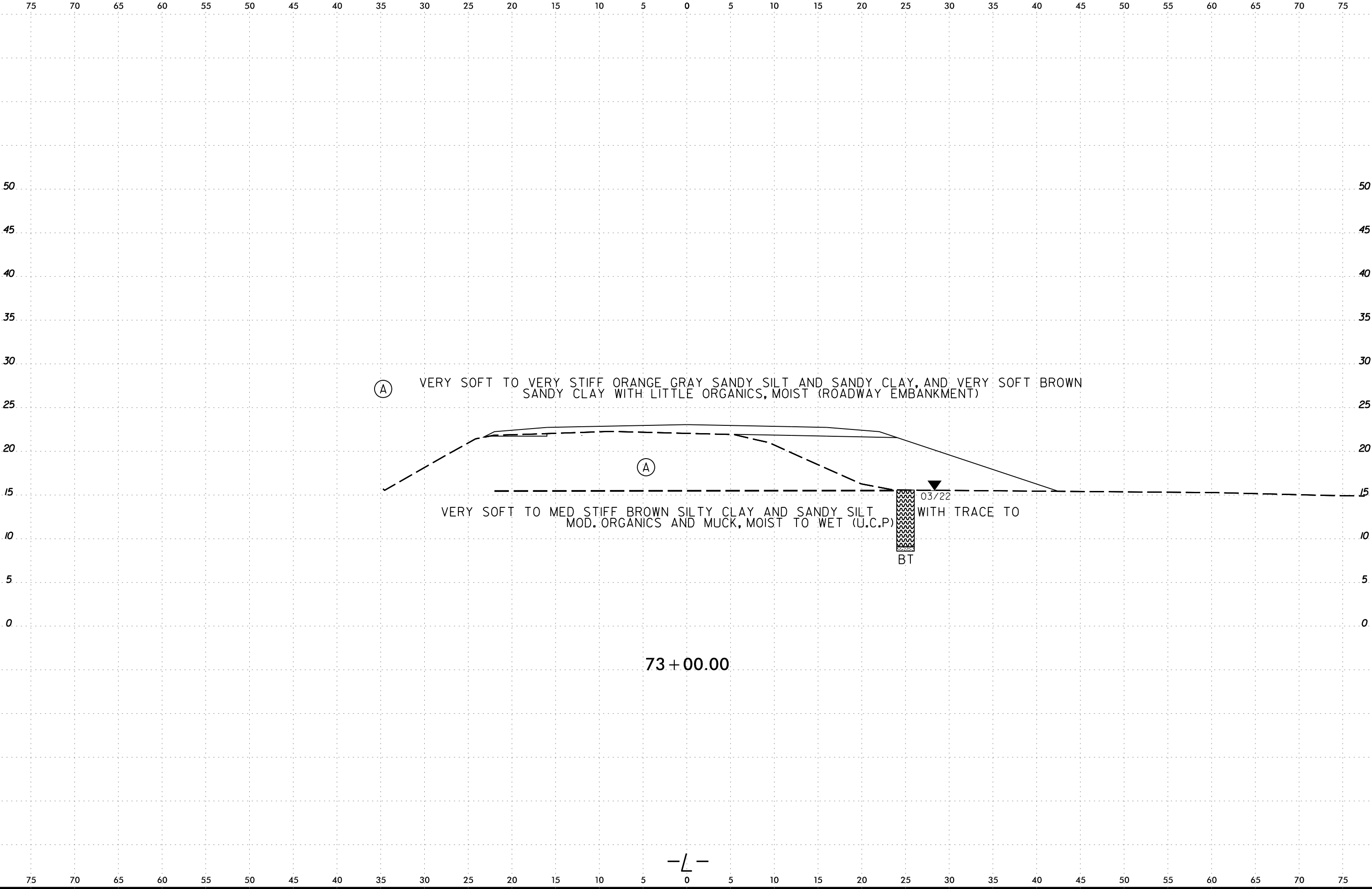
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	R-5808	140



6/23/16

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Lee Stone AT LSTONE-CAD-PC

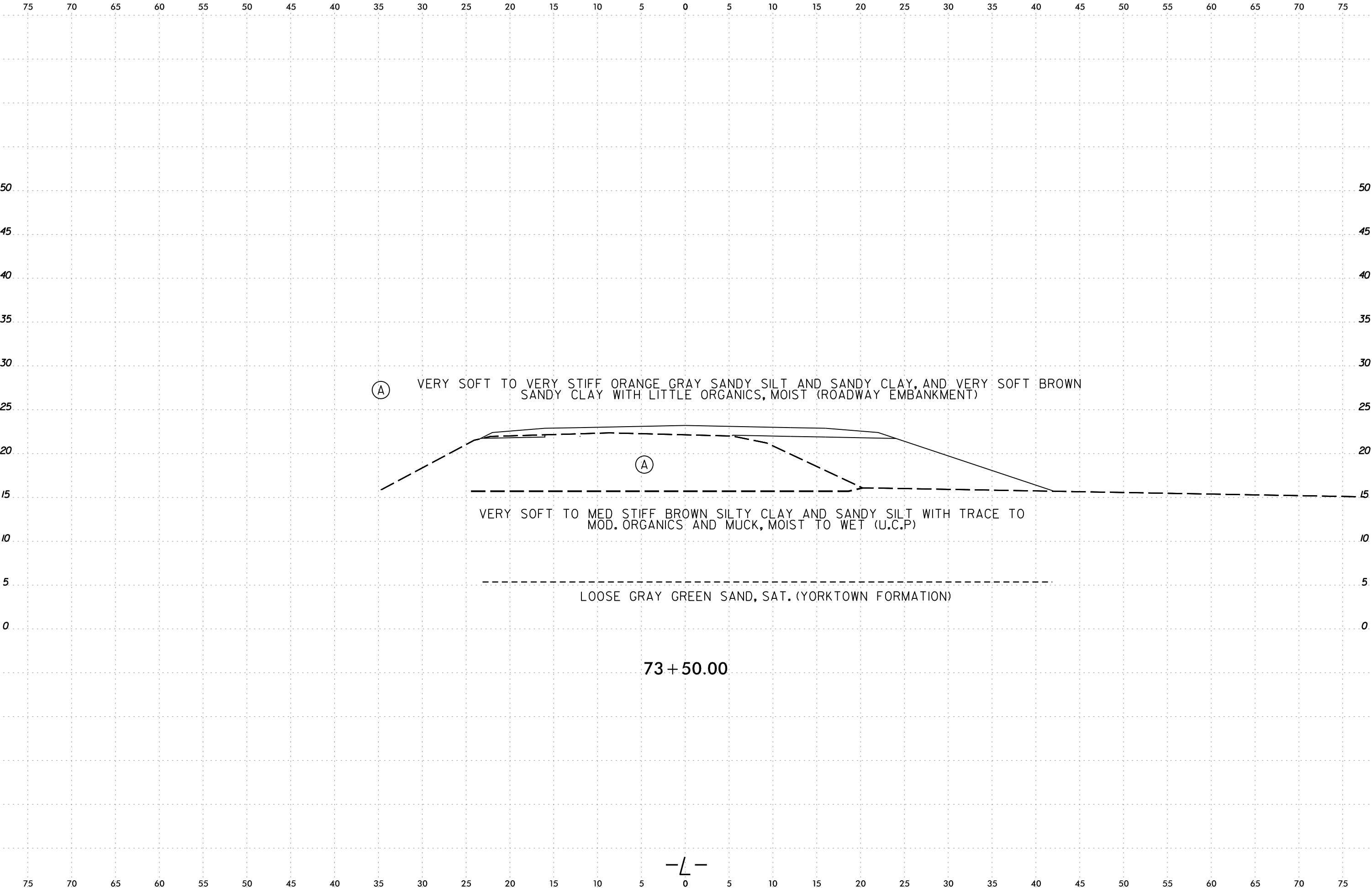
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	R-5808	141



6/23/16

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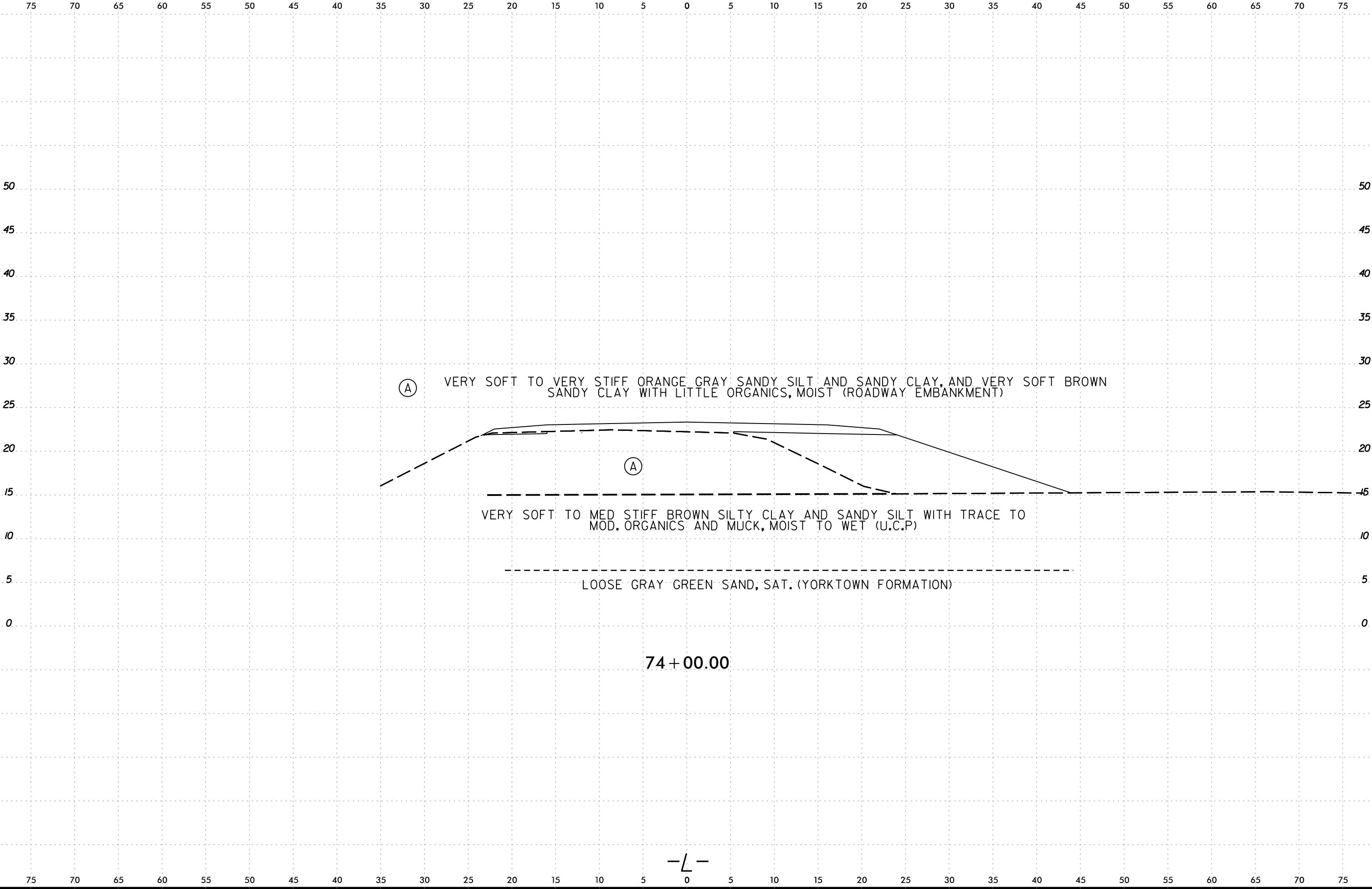
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

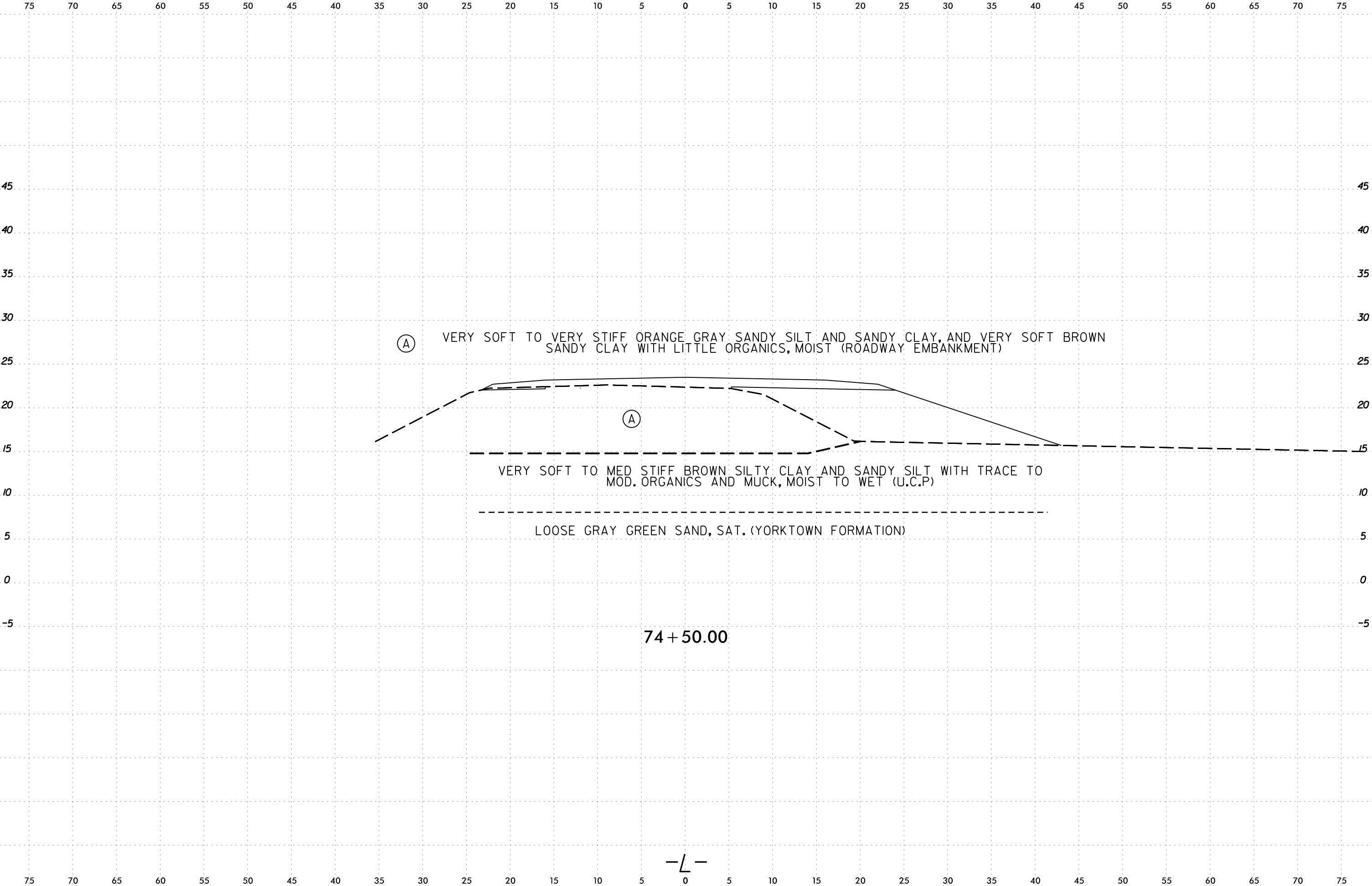
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	R-5808	143

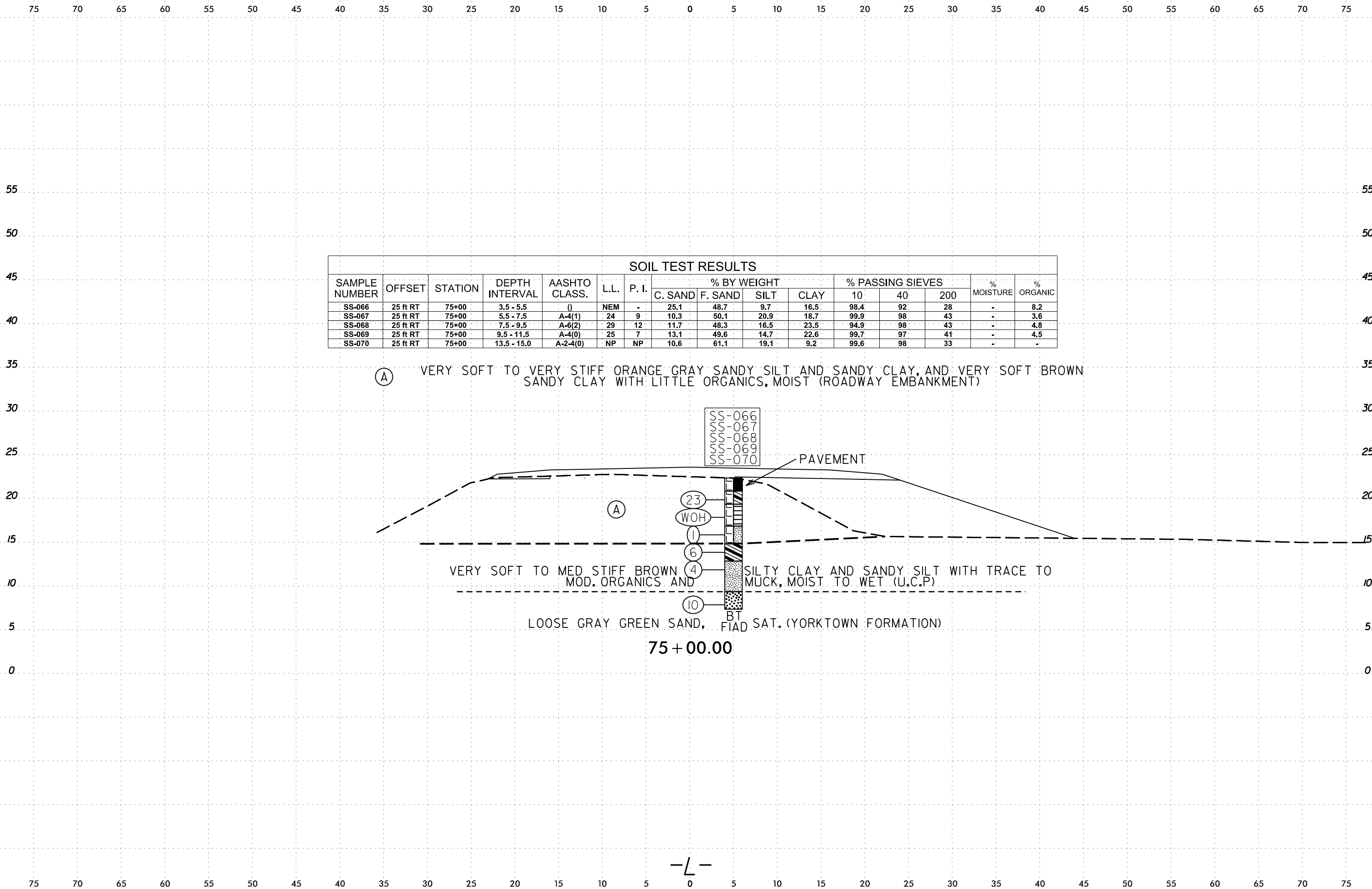


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
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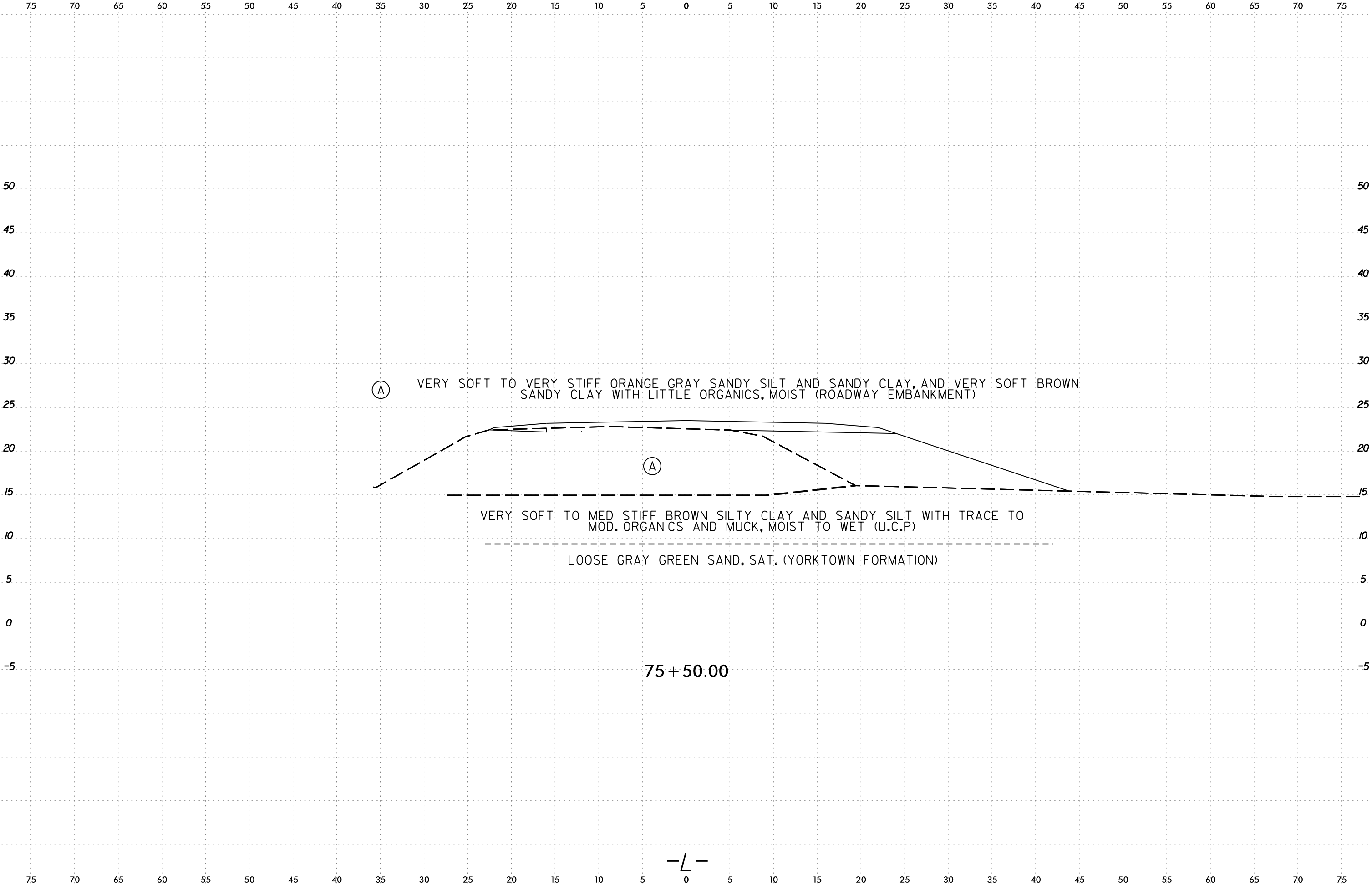




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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	146

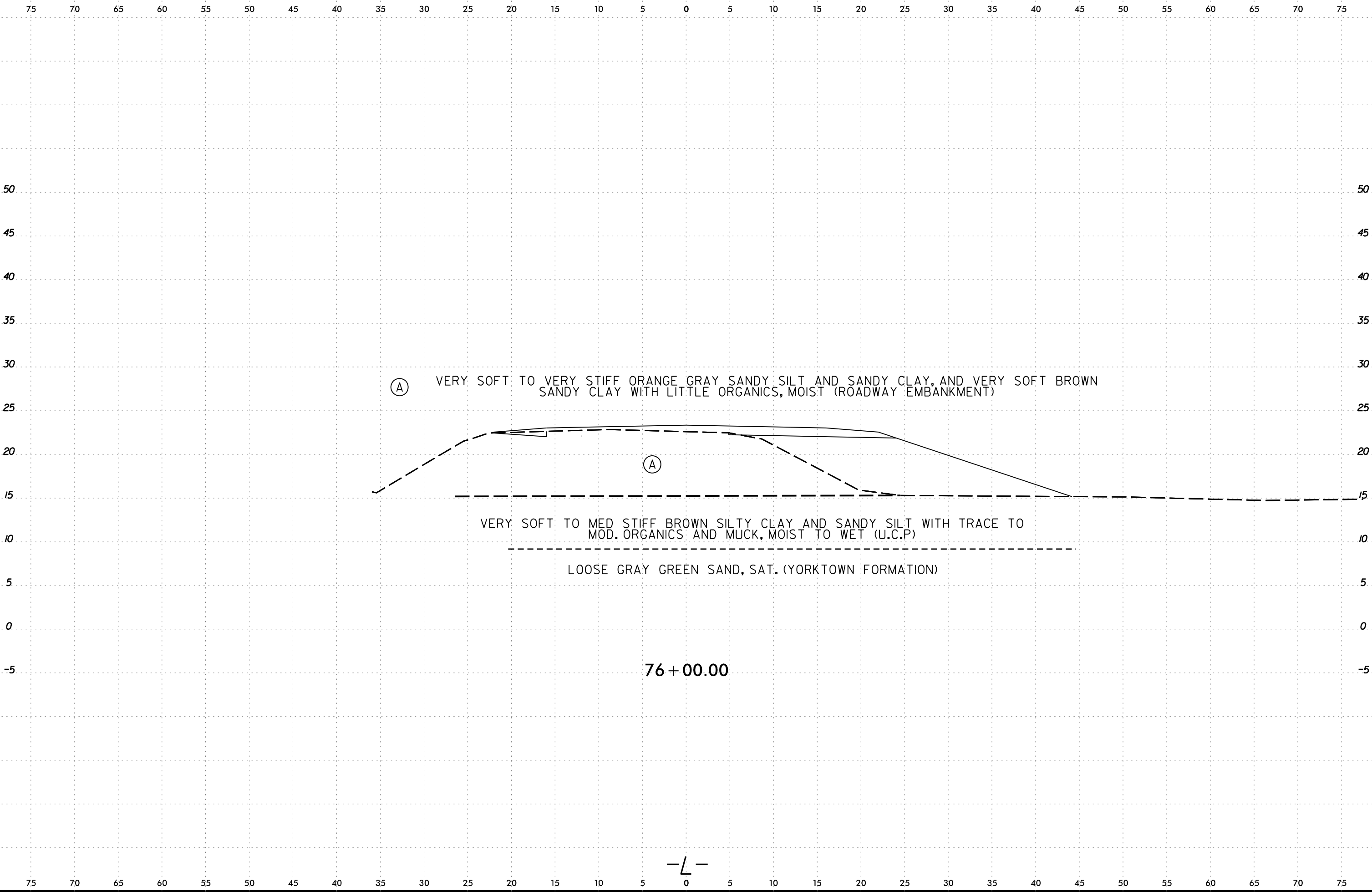


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Lee Stone AT LSTONE-CAD-PC

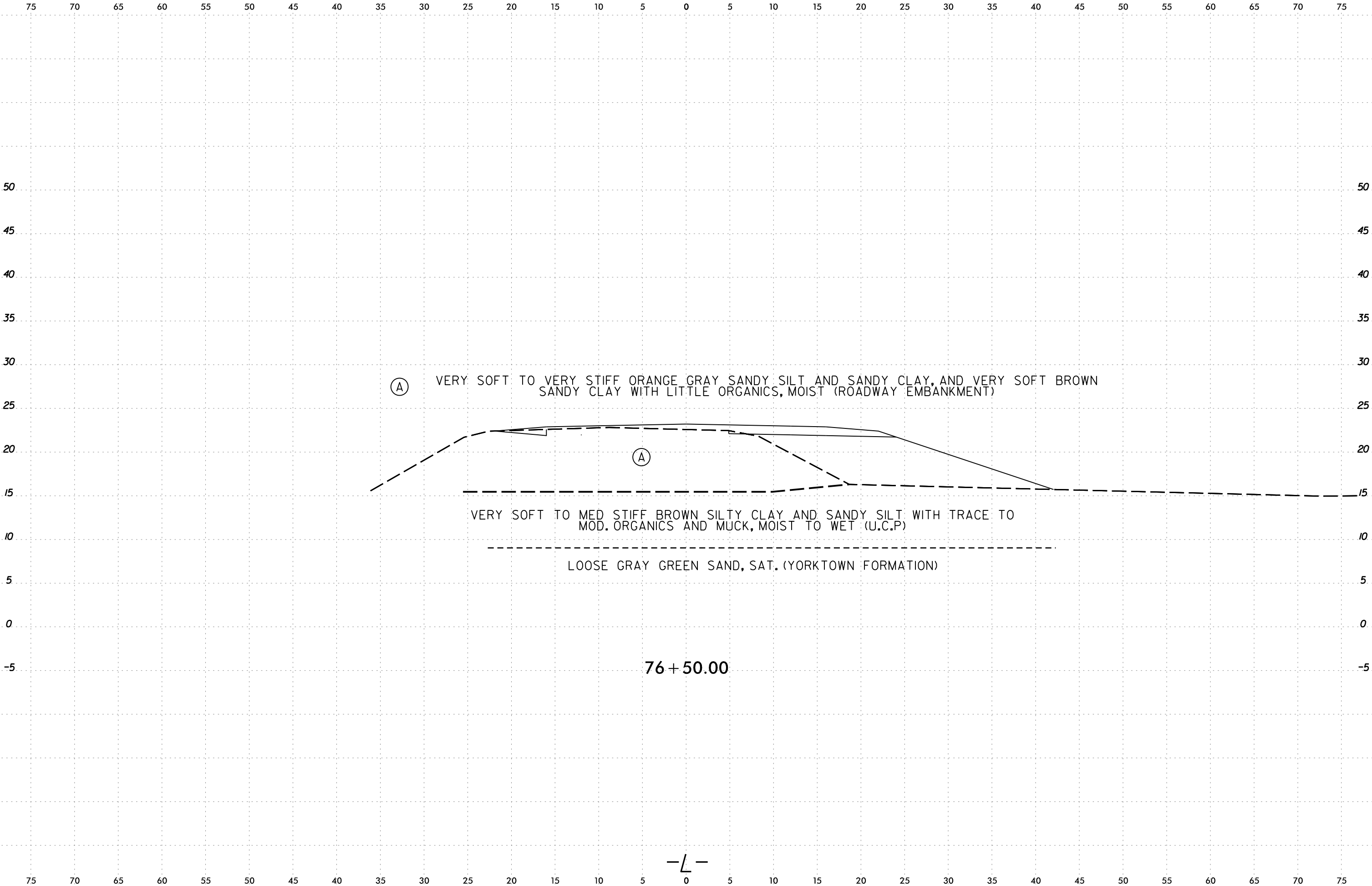
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	R-5808	147



6/23/16

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Lee Stone AT LSTONE-CAD-PC

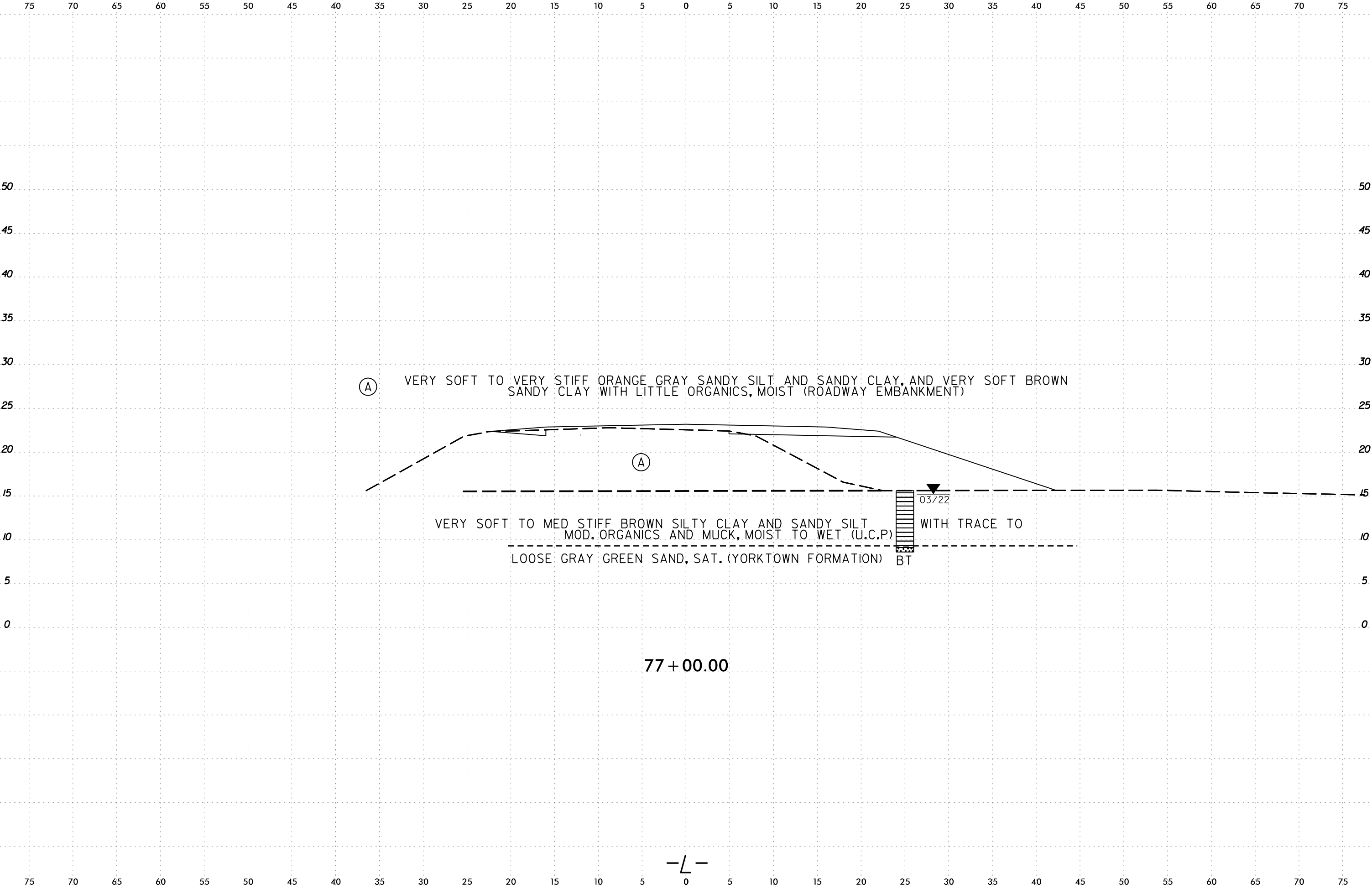
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	R-5808	148



6/23/16

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Lee Stone
10-JAN-2023 11:54

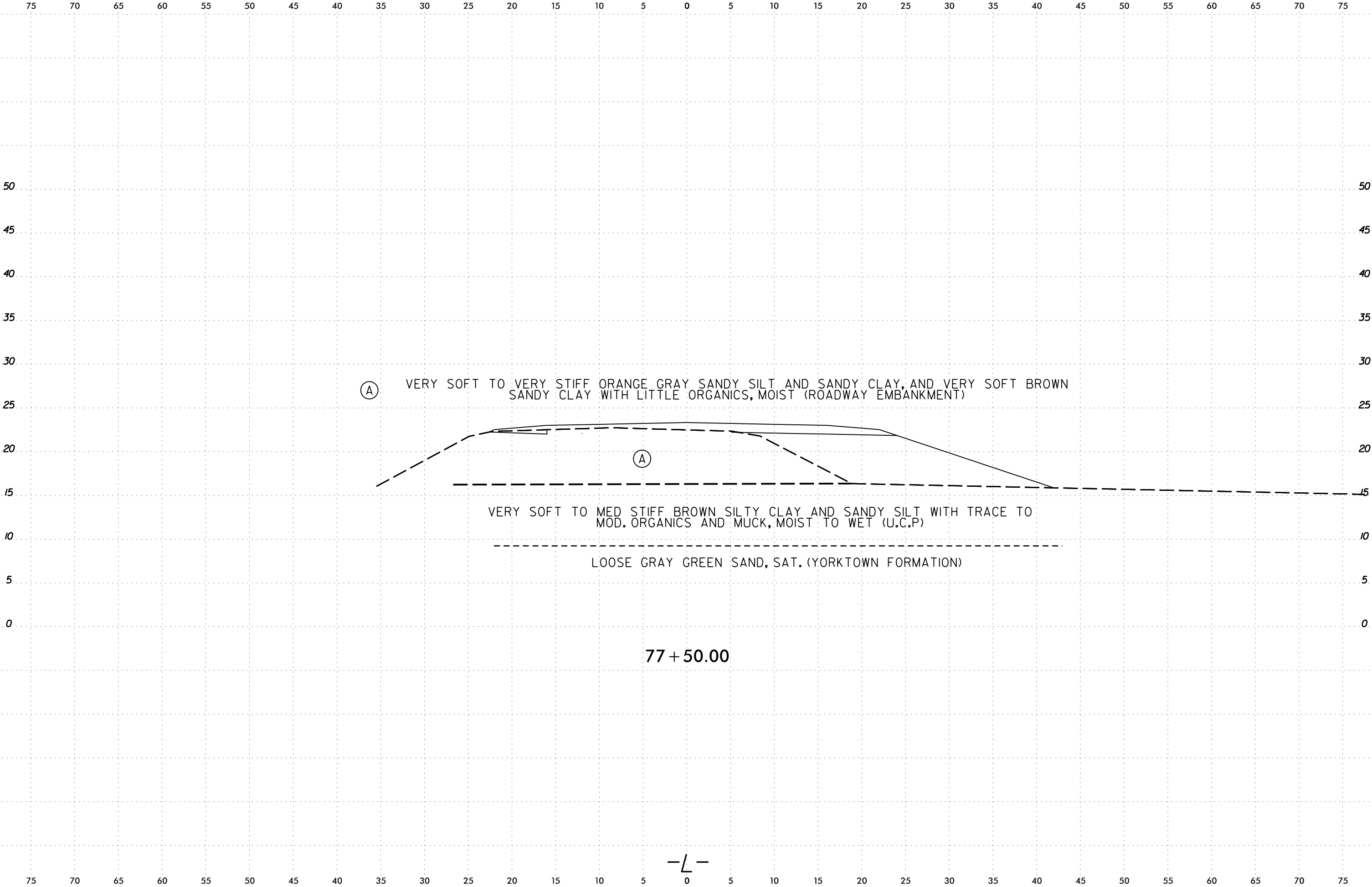
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	R-5808	149



6/23/16

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Lee Stone AT LSTONE-CAD-PC

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

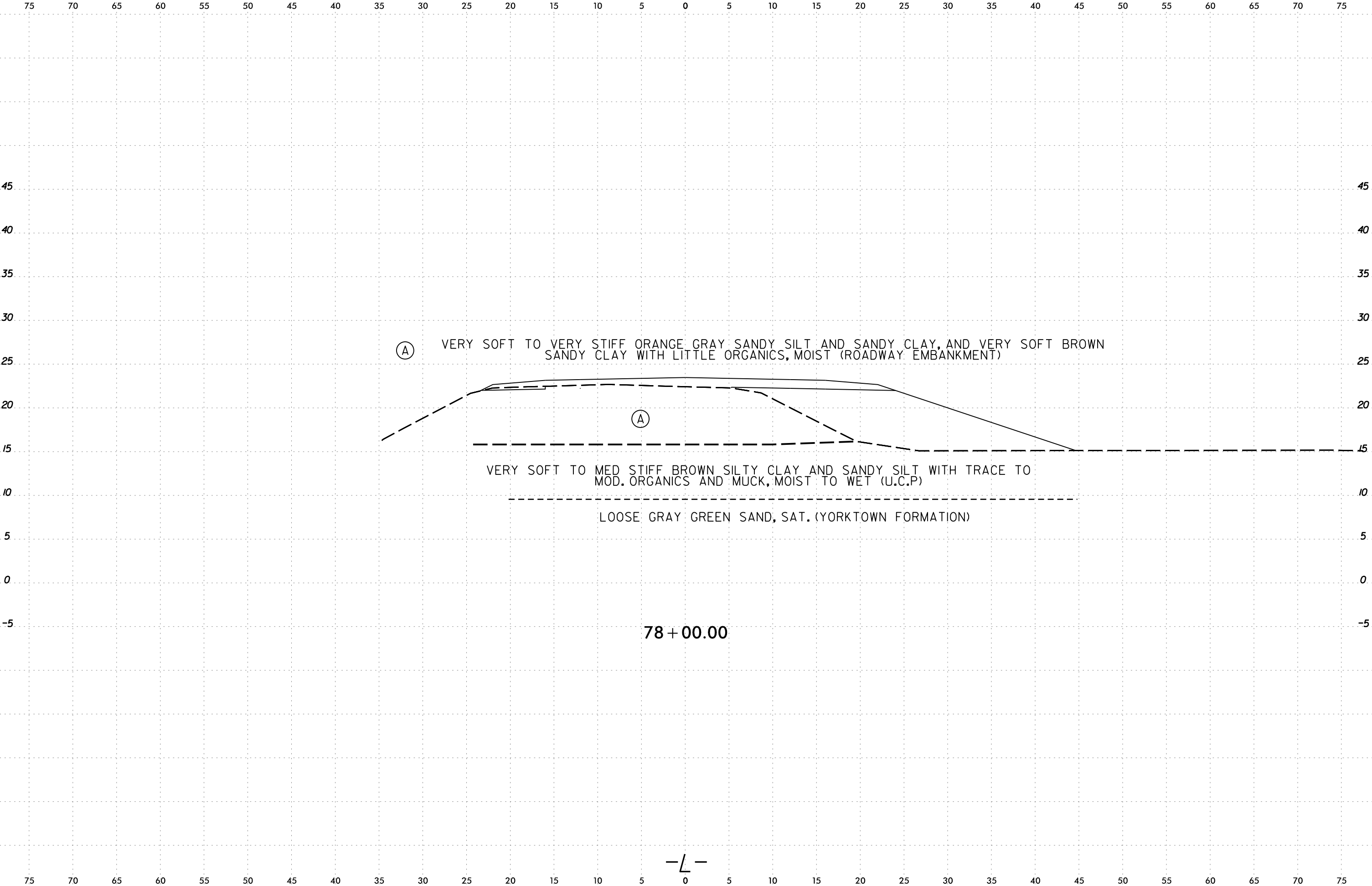


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	151

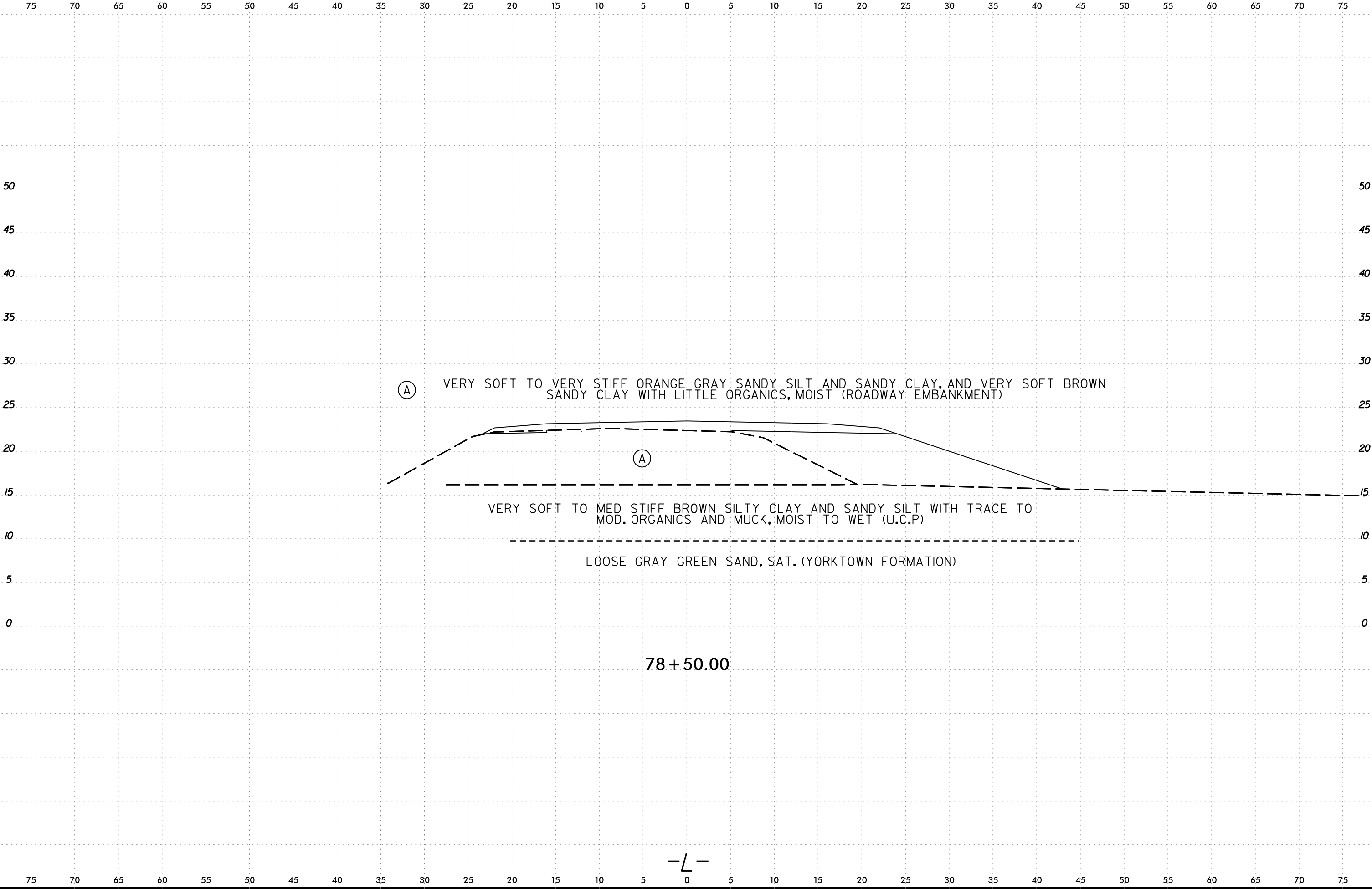


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	152

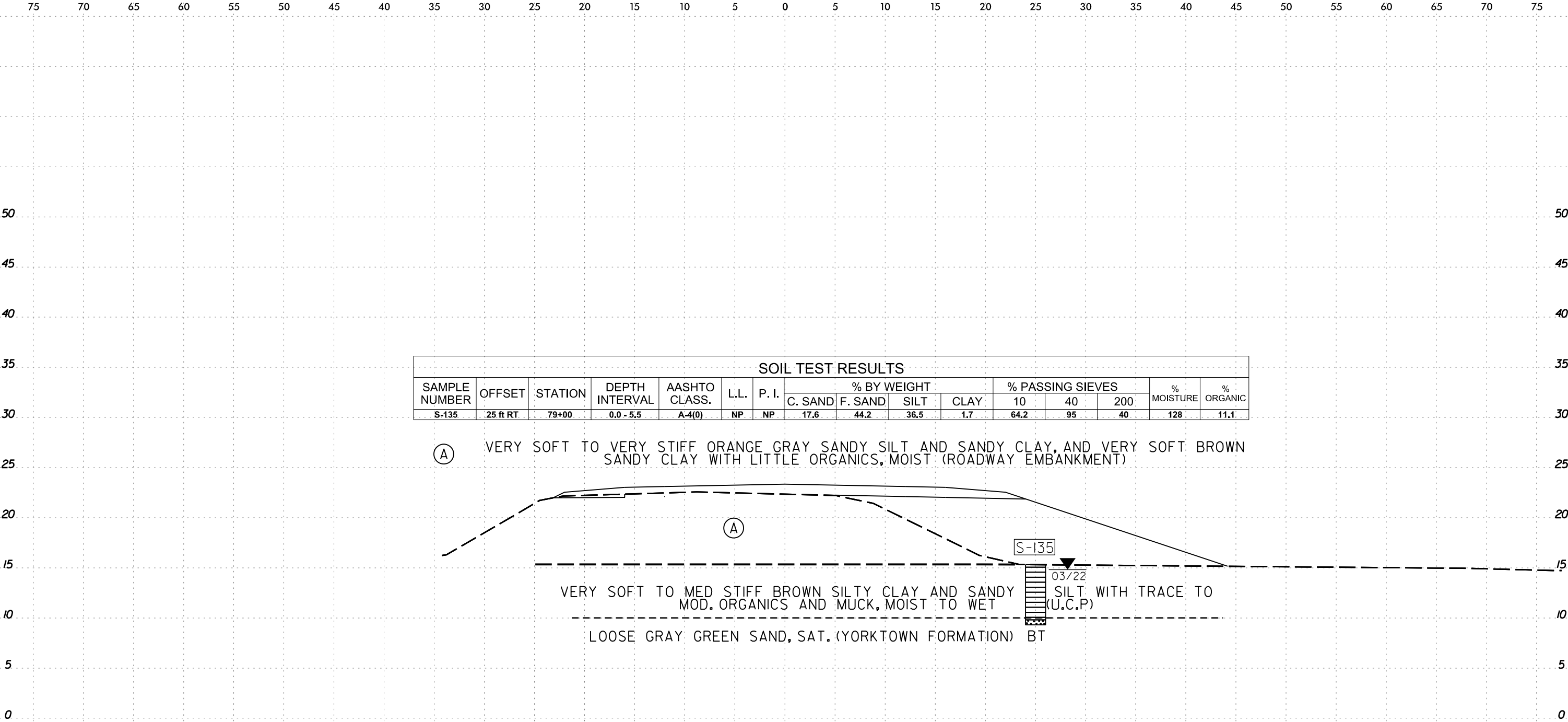


6/23/16



PROJ. REFERENCE NO.
R-5808

SHEET NO.
153



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

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

Ⓐ

S-I35

03/22

SILT WITH TRACE TO (U.C.P)

VERY SOFT TO MED STIFF BROWN SILTY CLAY AND SANDY MOD. ORGANICS AND MUCK, MOIST TO WET

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

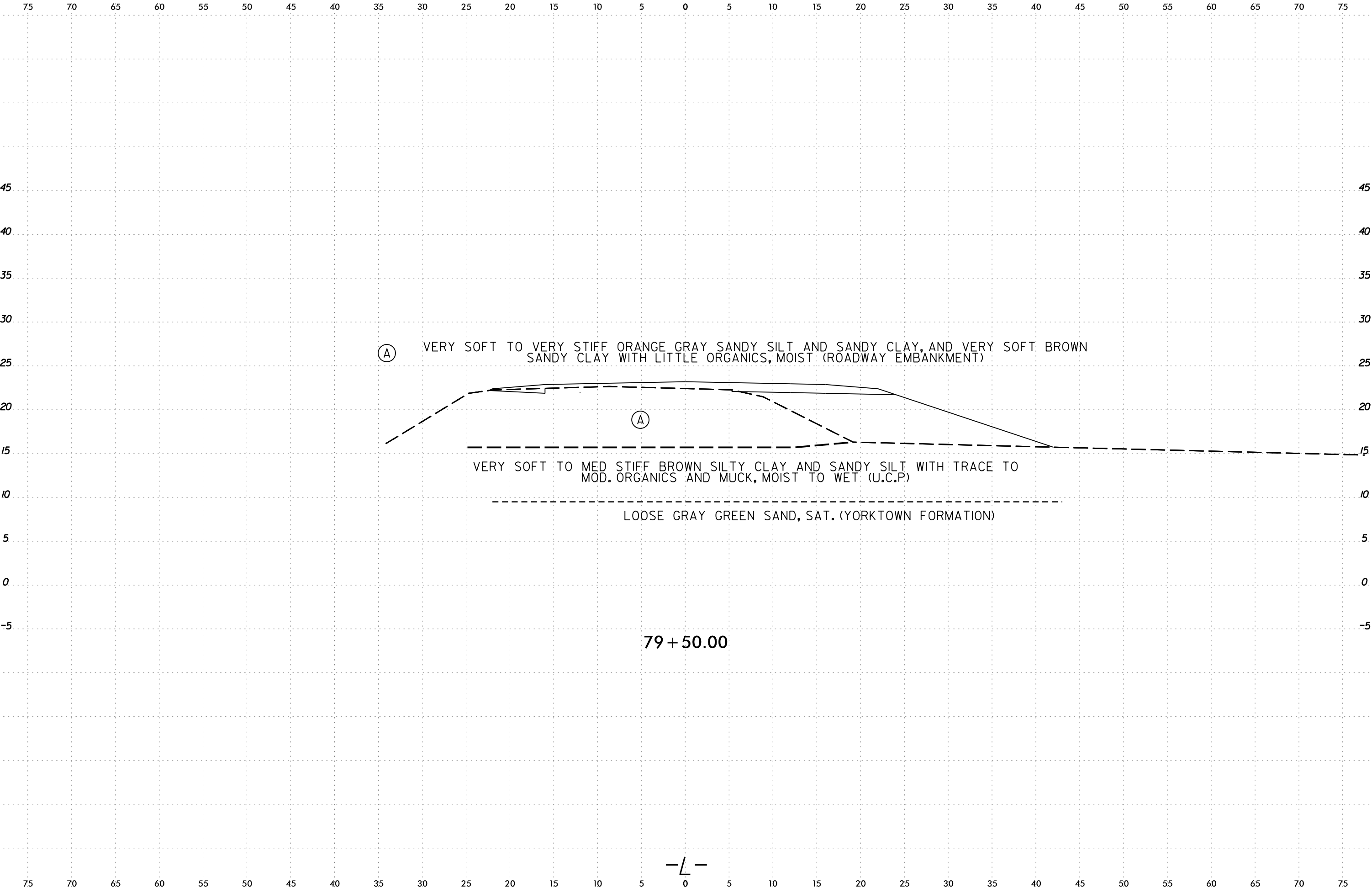
79 + 00.00

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6/23/16

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Lee Stone AT LSTONE-CAD-PC

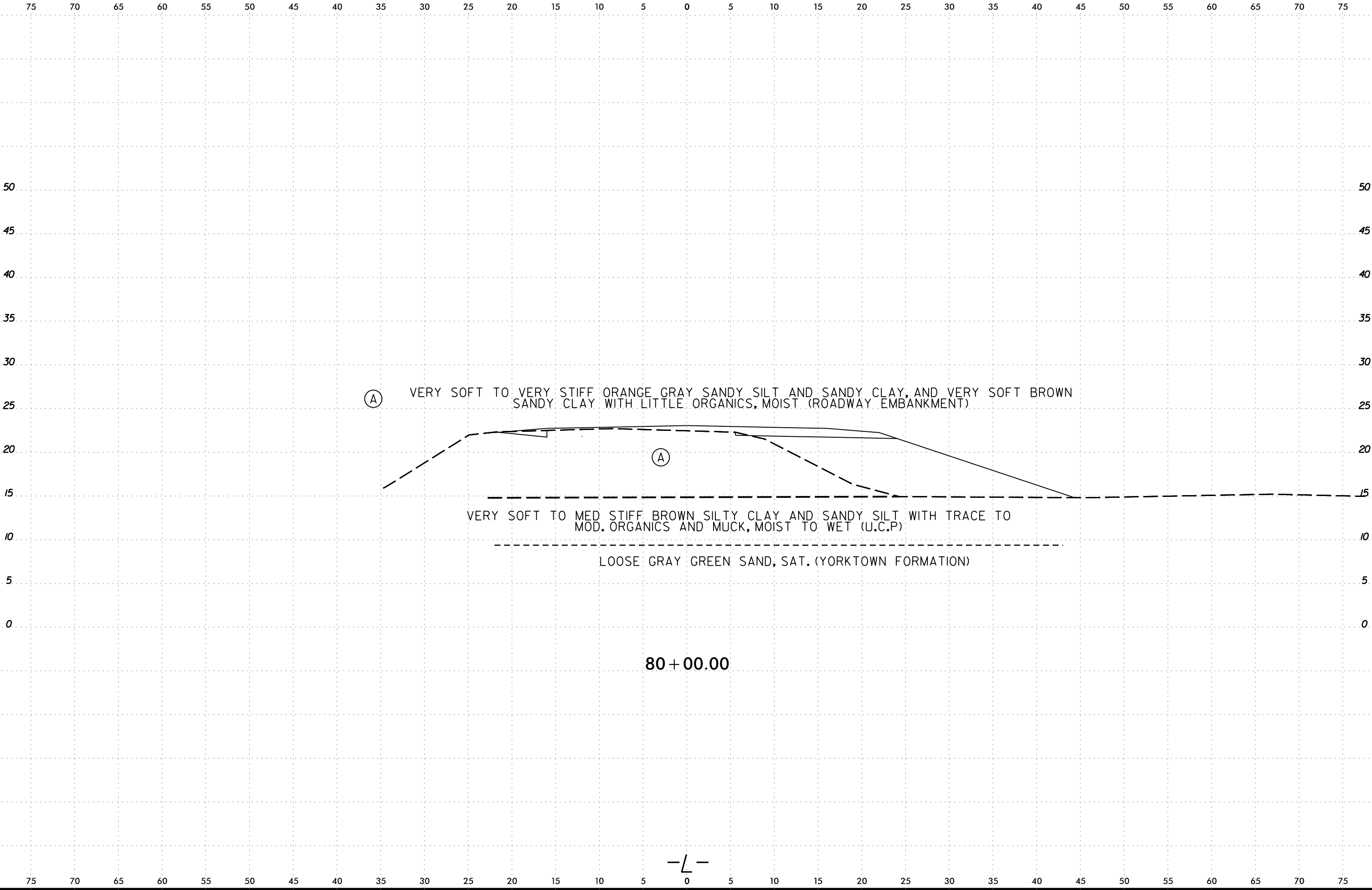
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	154



6/23/16

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Lee Stone AT LSTONE-CAD-PC

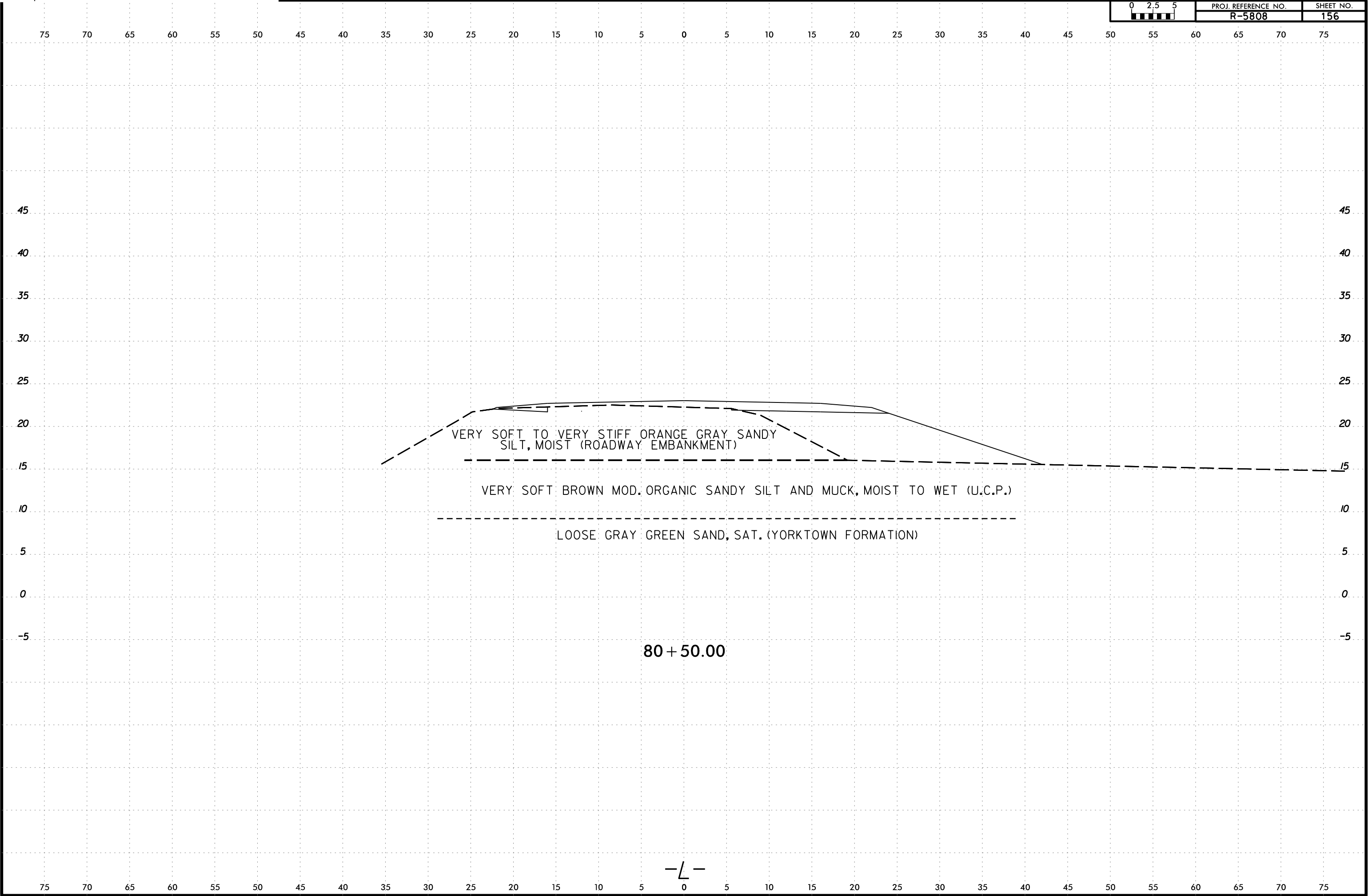
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	155



6/23/16

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Lee Stone AT LSTONE-CAD-PC

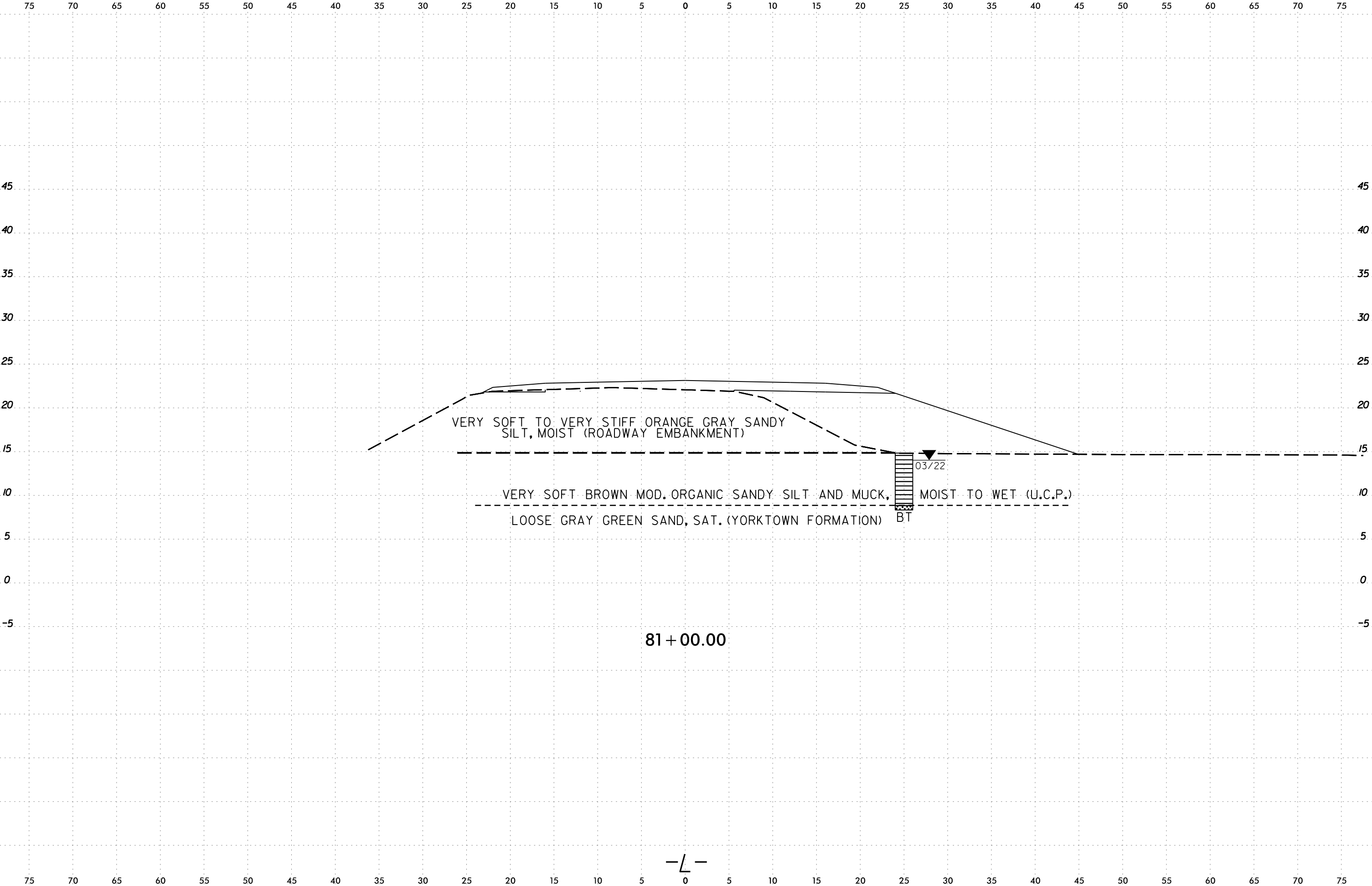
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	R-5808	156



6/23/16

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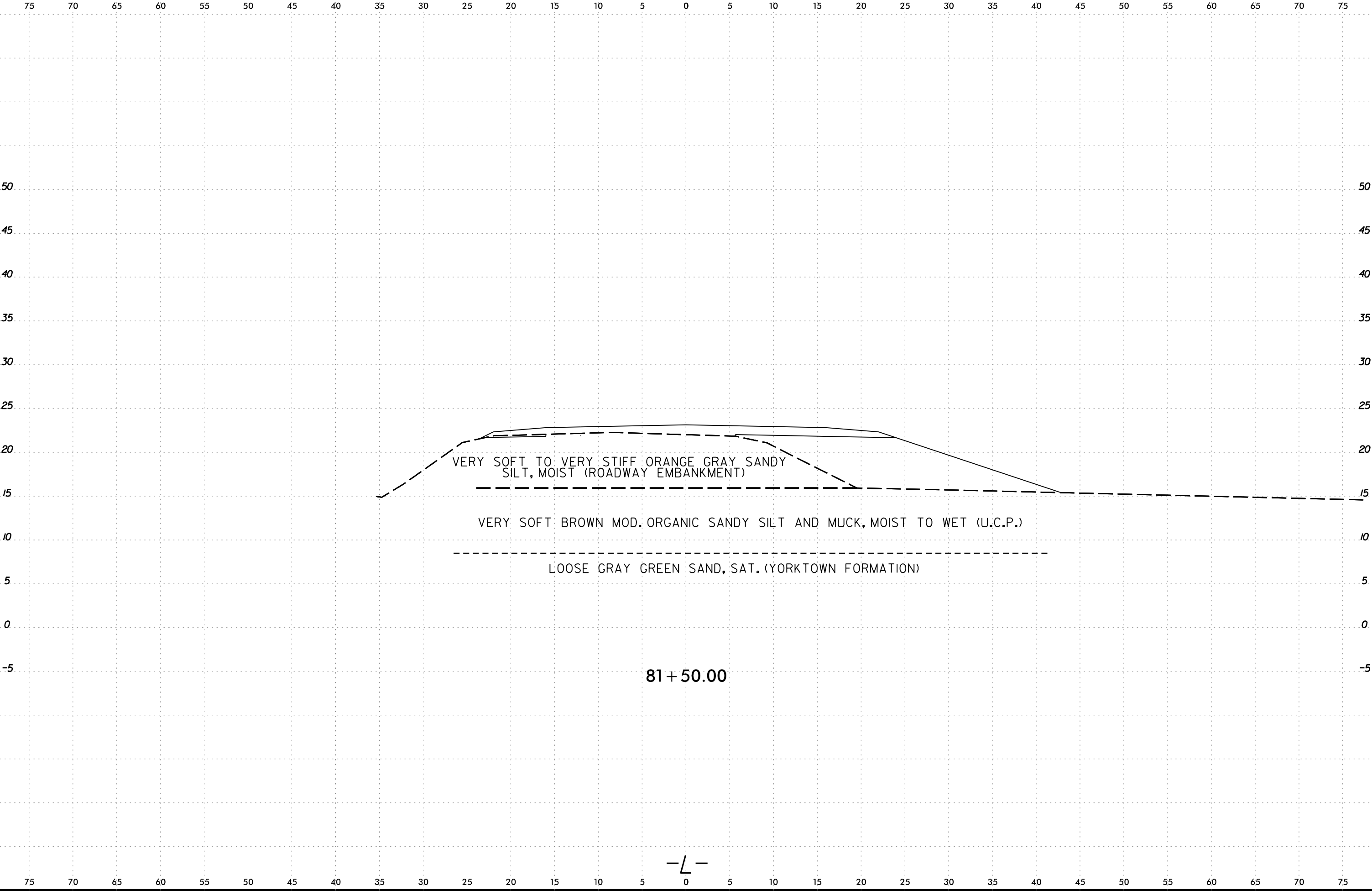
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	R-5808	157



6/23/16

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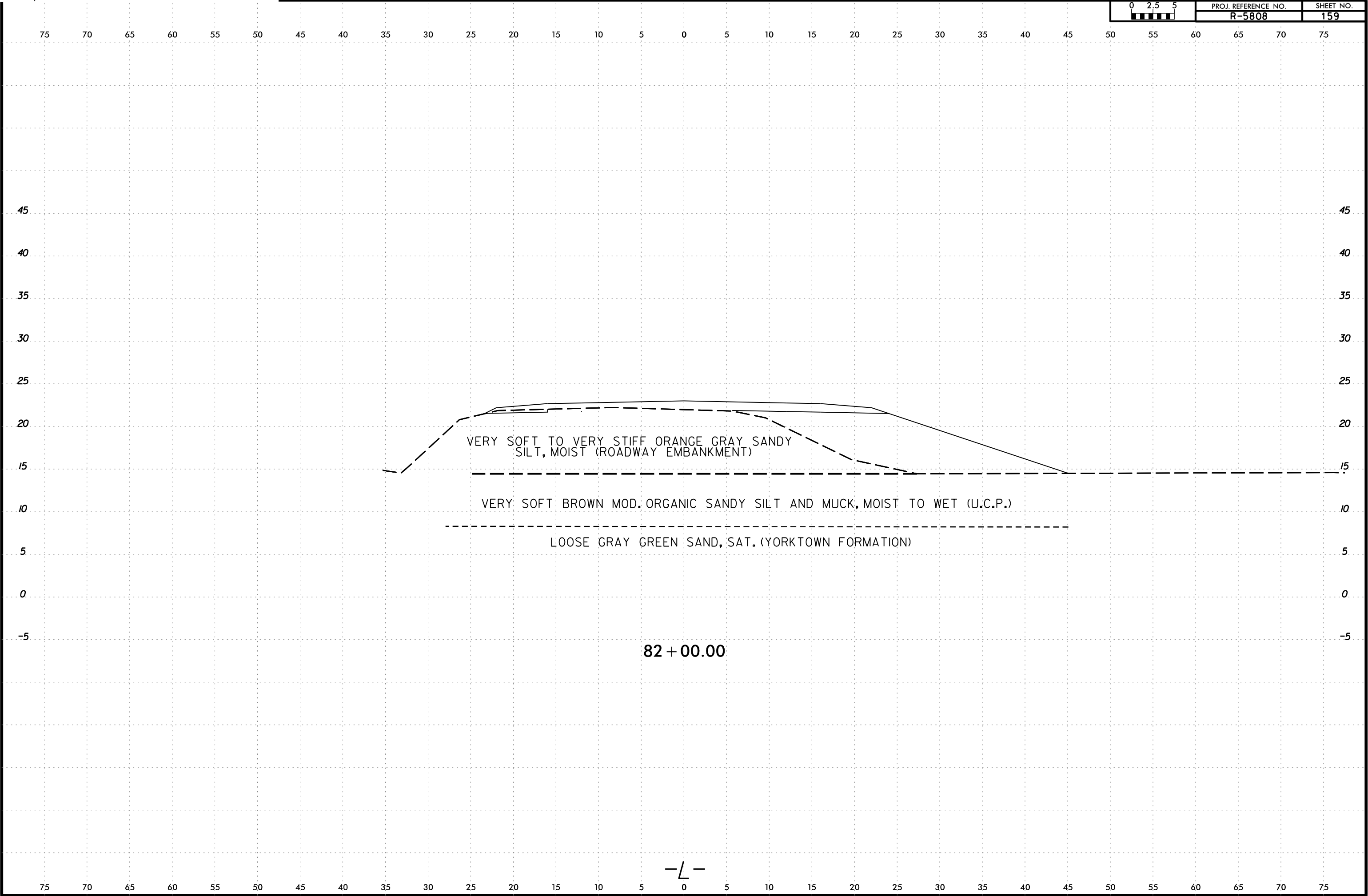
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	R-5808	158



6/23/16

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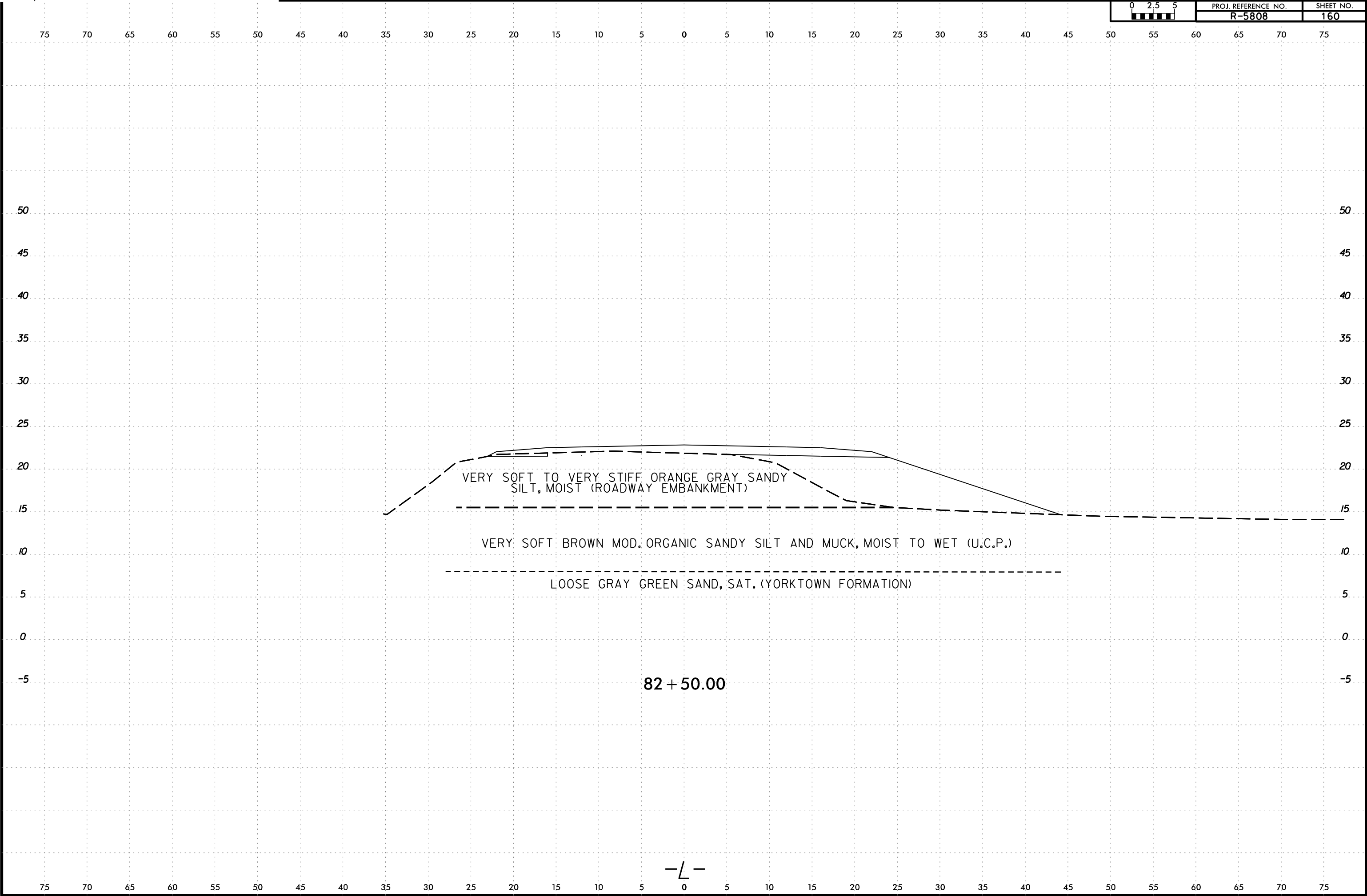
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6/23/16

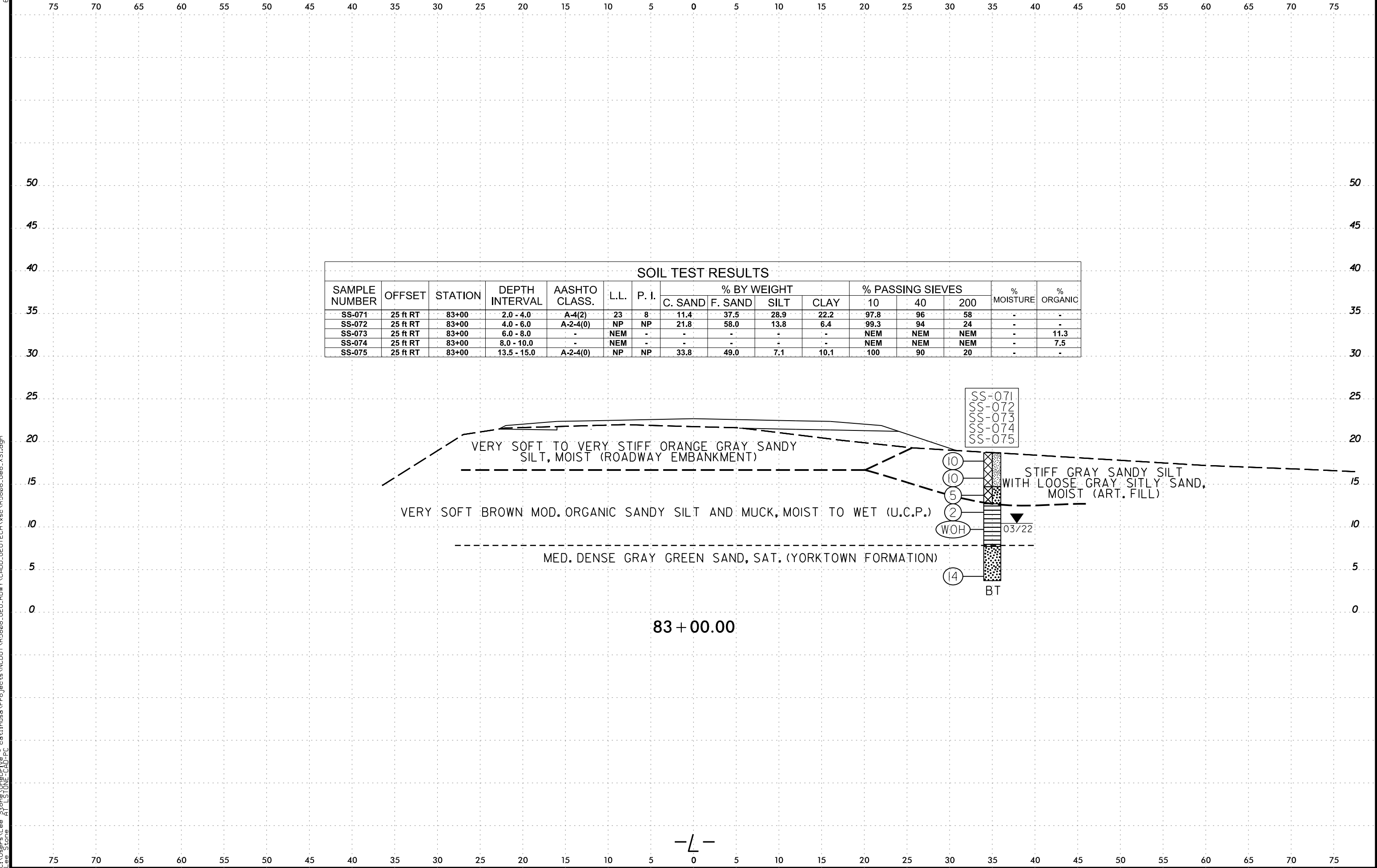
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	160



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6/23/16

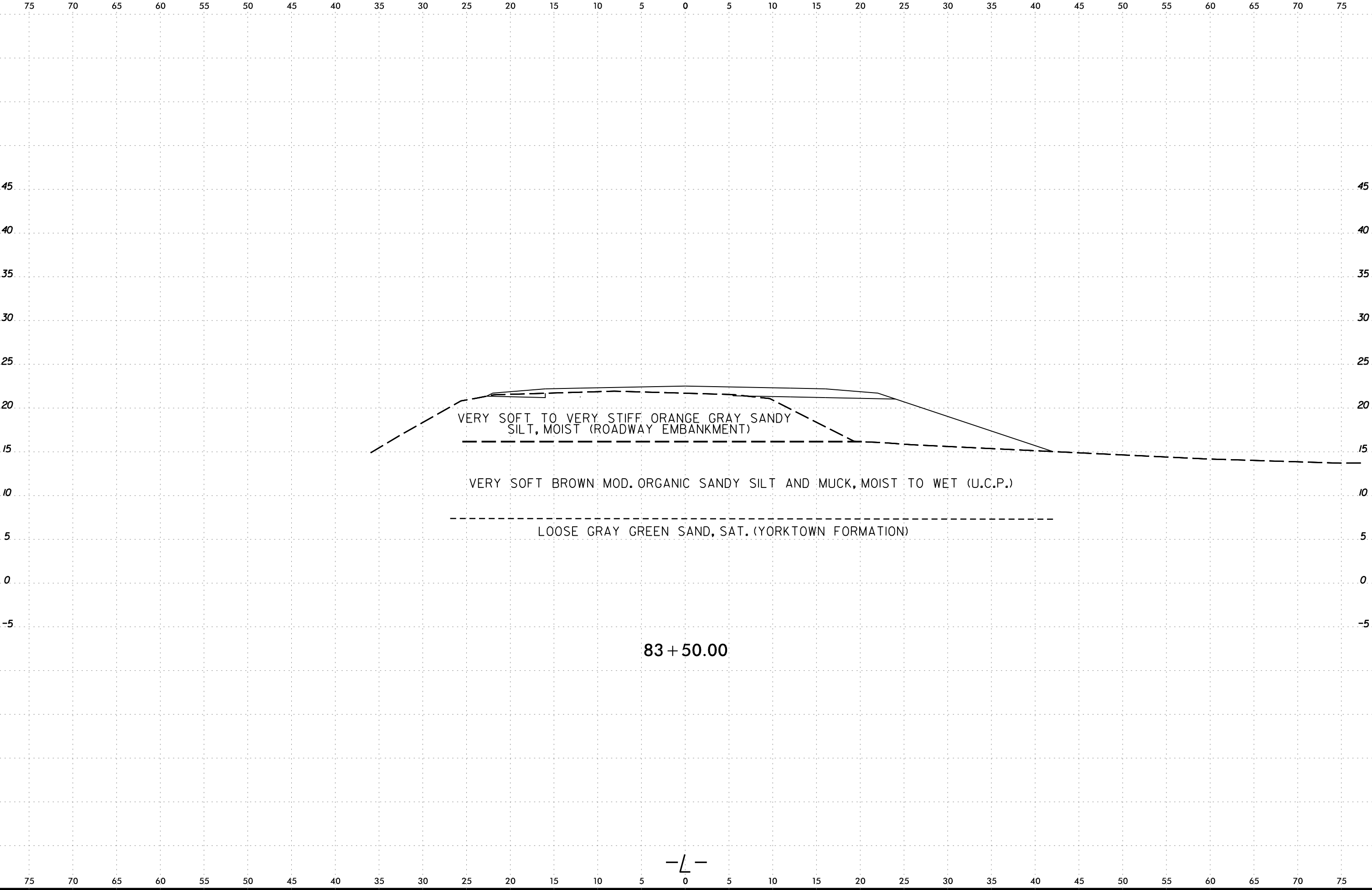


SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-071	25 ft RT	83+00	2.0 - 4.0	A-4(2)	23	8	11.4	37.5	28.9	22.2	97.8	96	58	-	-
SS-072	25 ft RT	83+00	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	-	-

6/23/16

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Lee Stone AT LSTONE-CAD-PC

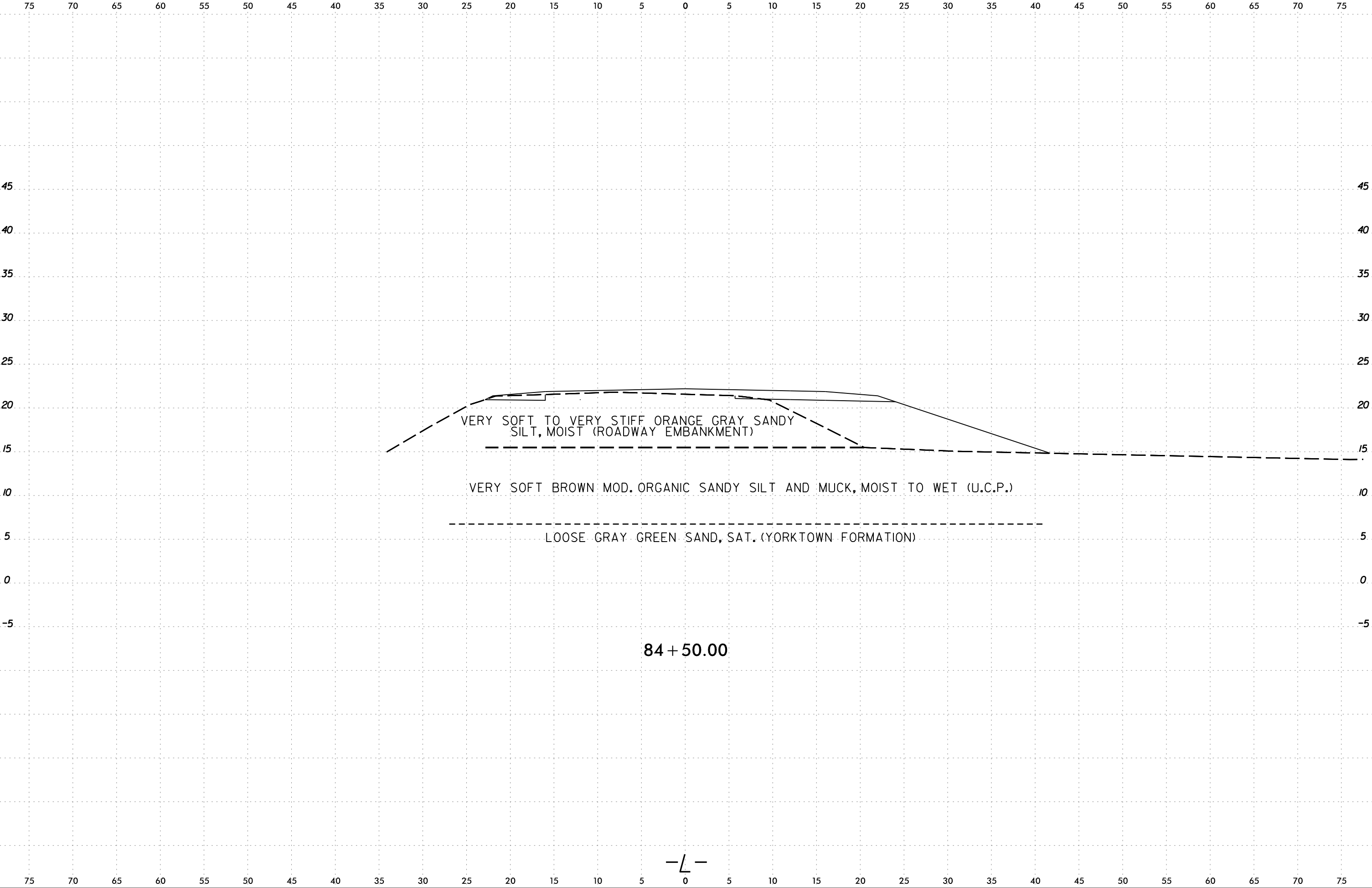
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	R-5808	162





6/23/16

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	164



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Lee Stone AT LSTONE-CAD-PC

6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	165

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)

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

LOOSE GRAY GREEN SAND, SAT. (YORKTOWN FORMATION)

S-005

03/22

BT

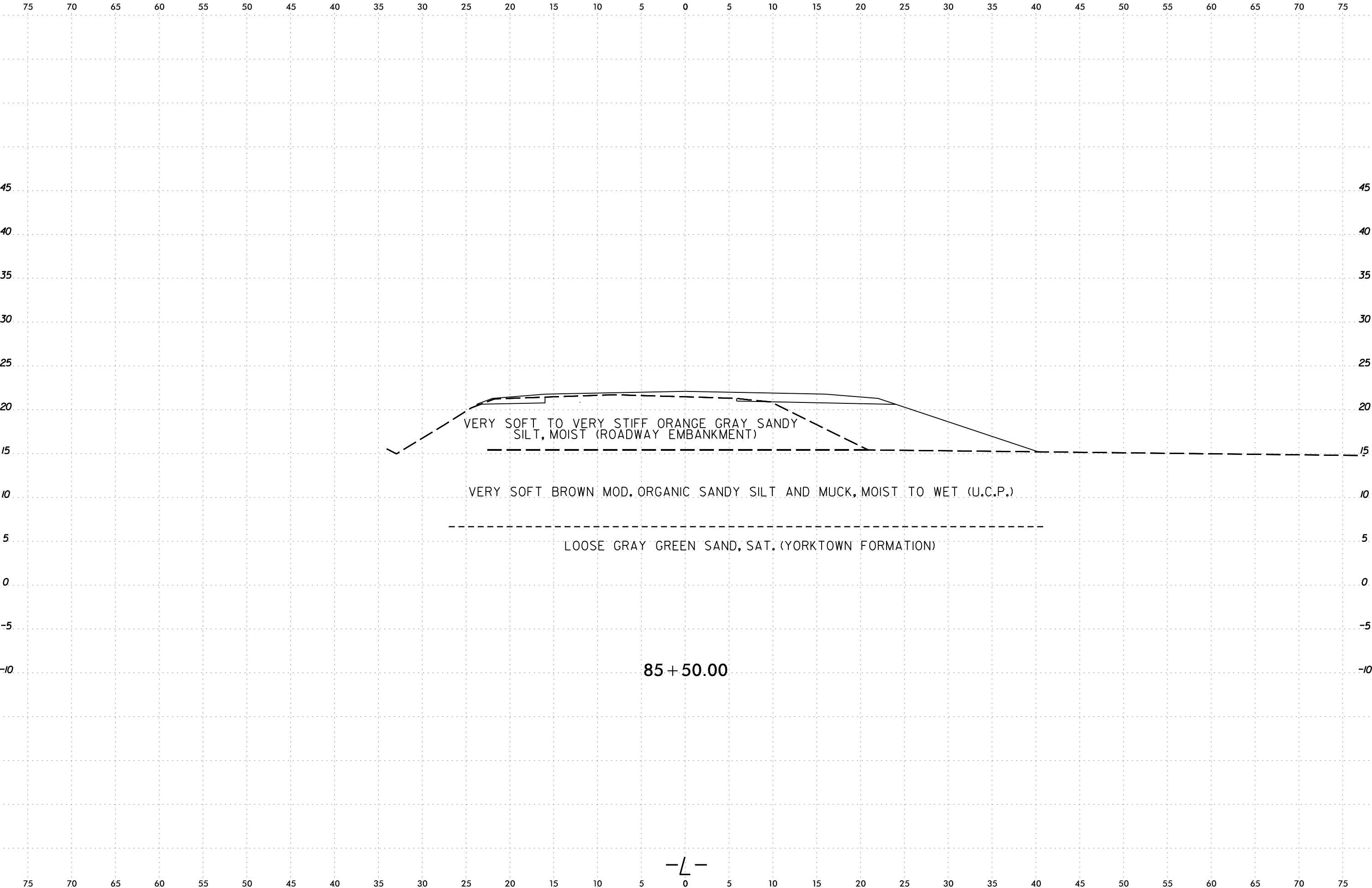
85 + 00.00

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Lee Stone AT LSTONE-CAD-PC

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

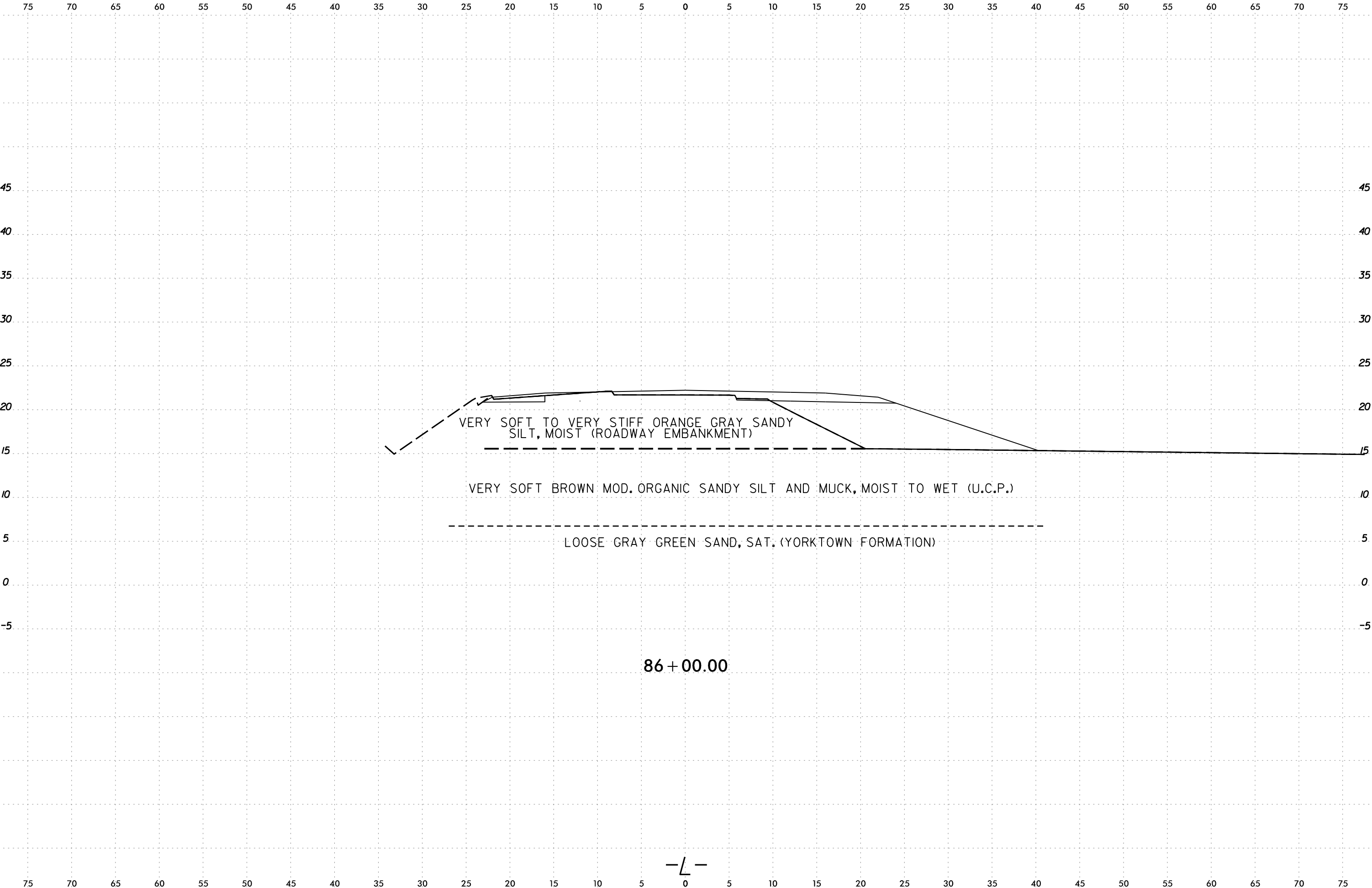


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Lee Stone AT LSTONE-CAD-PC

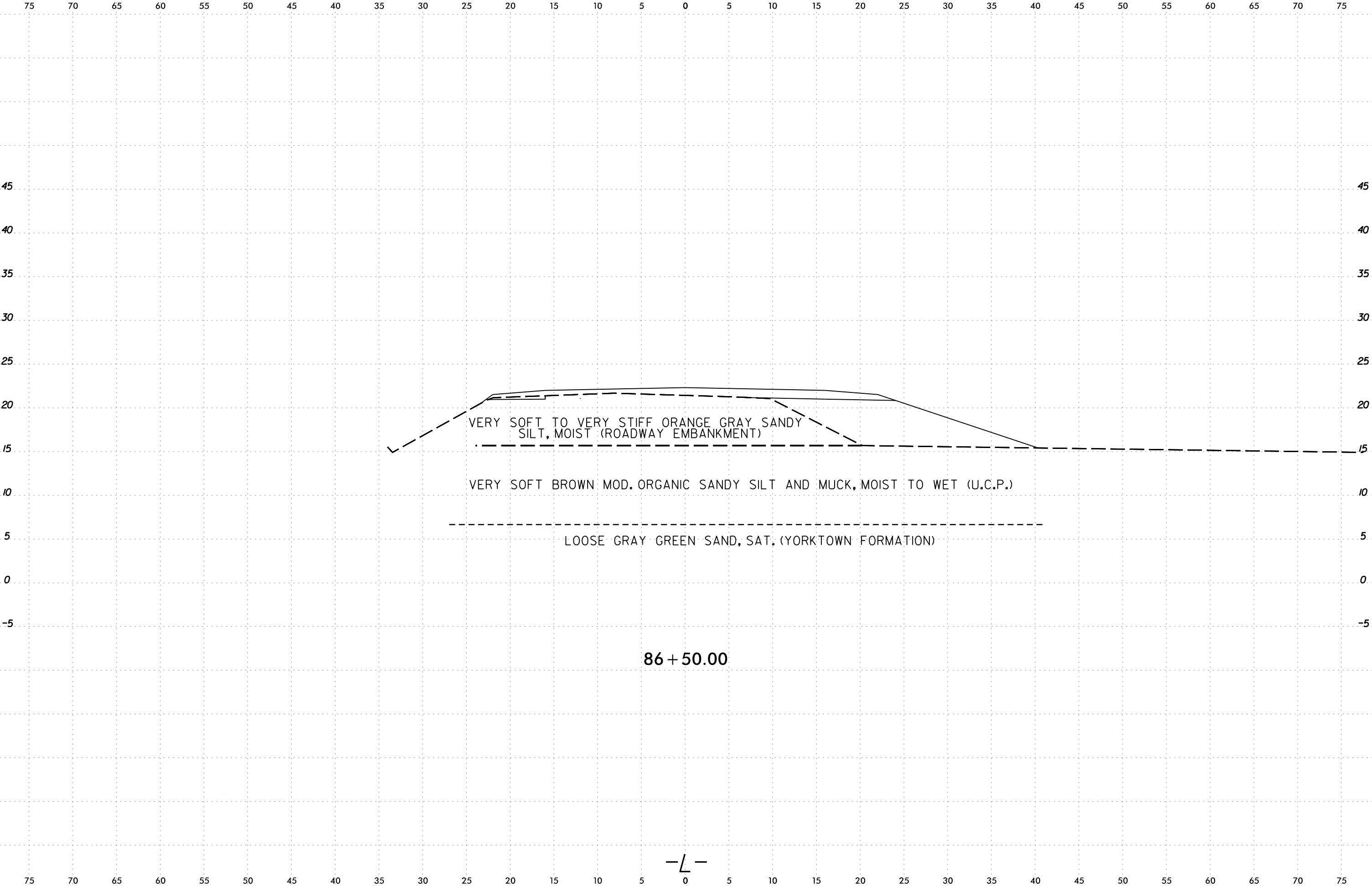
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	R-5808	167



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	168

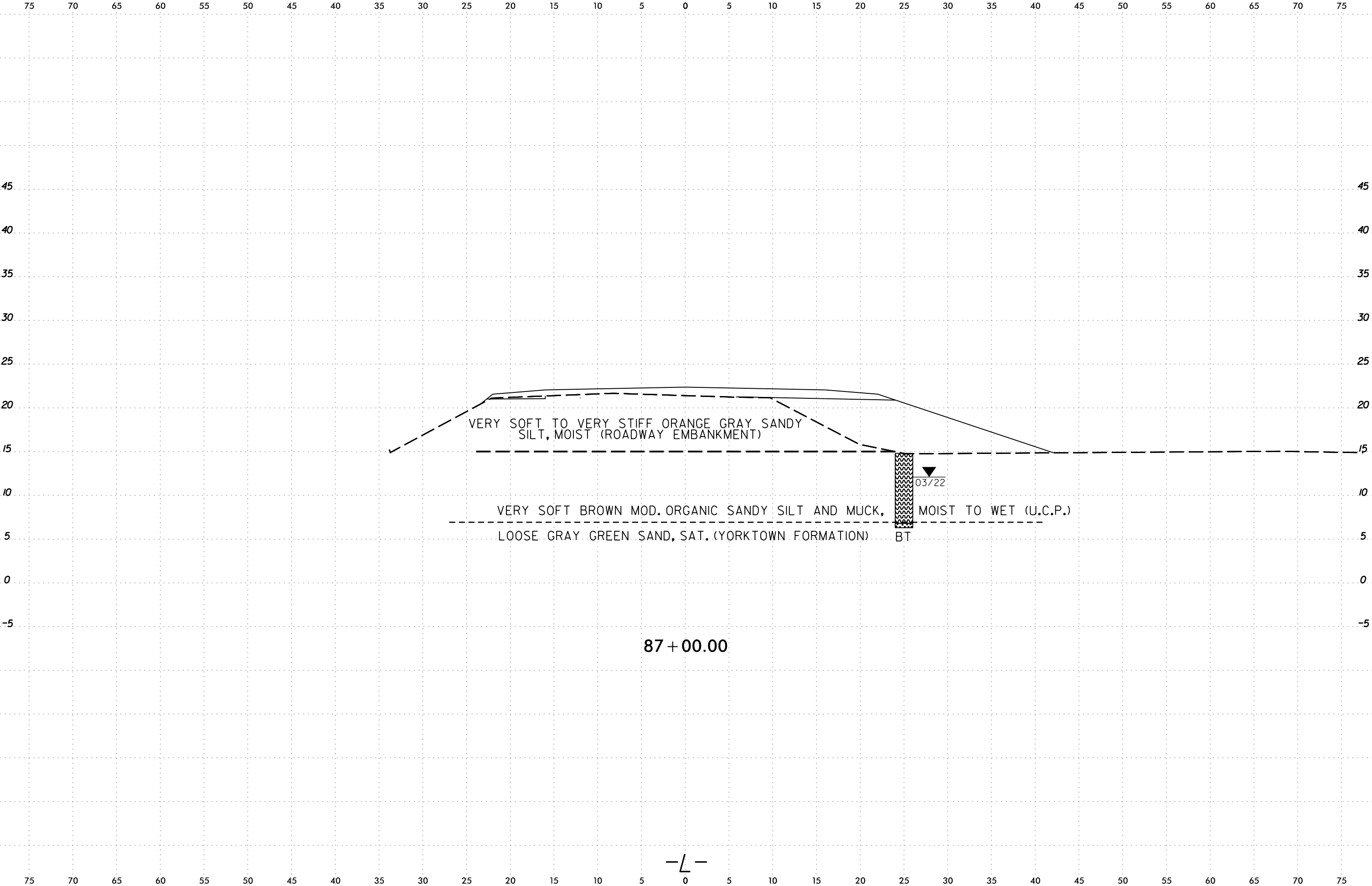


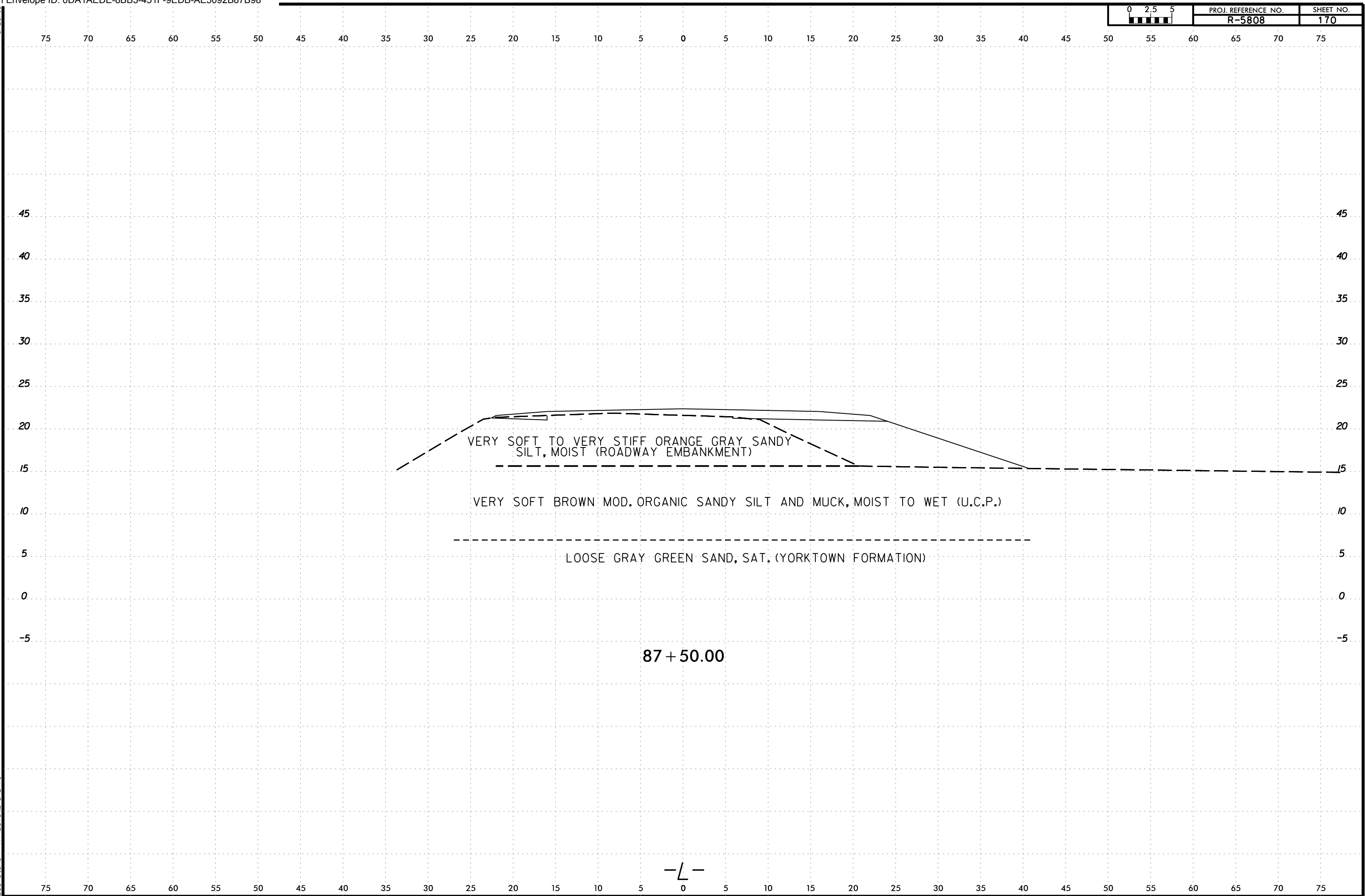
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	169



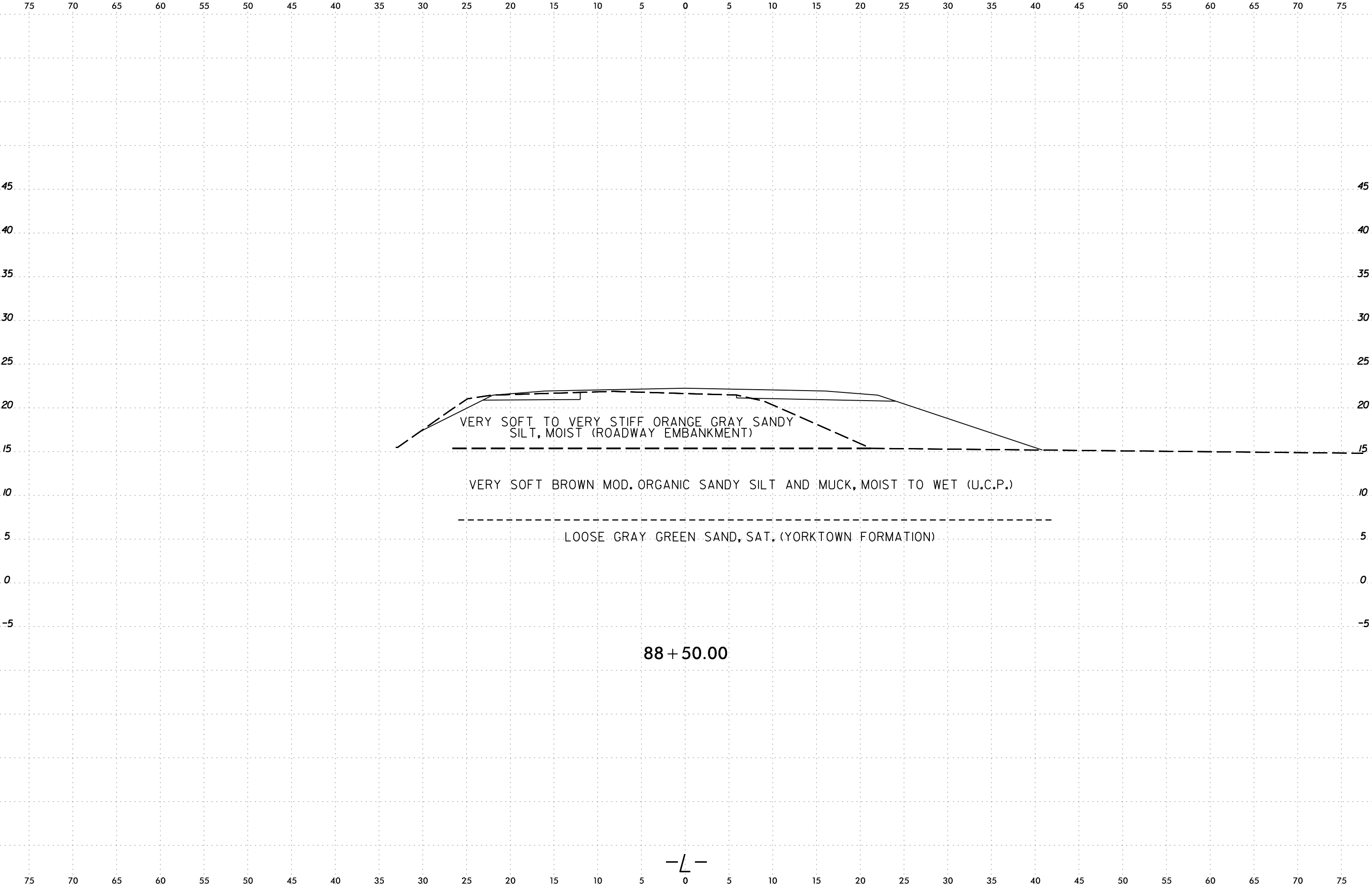




6/23/16

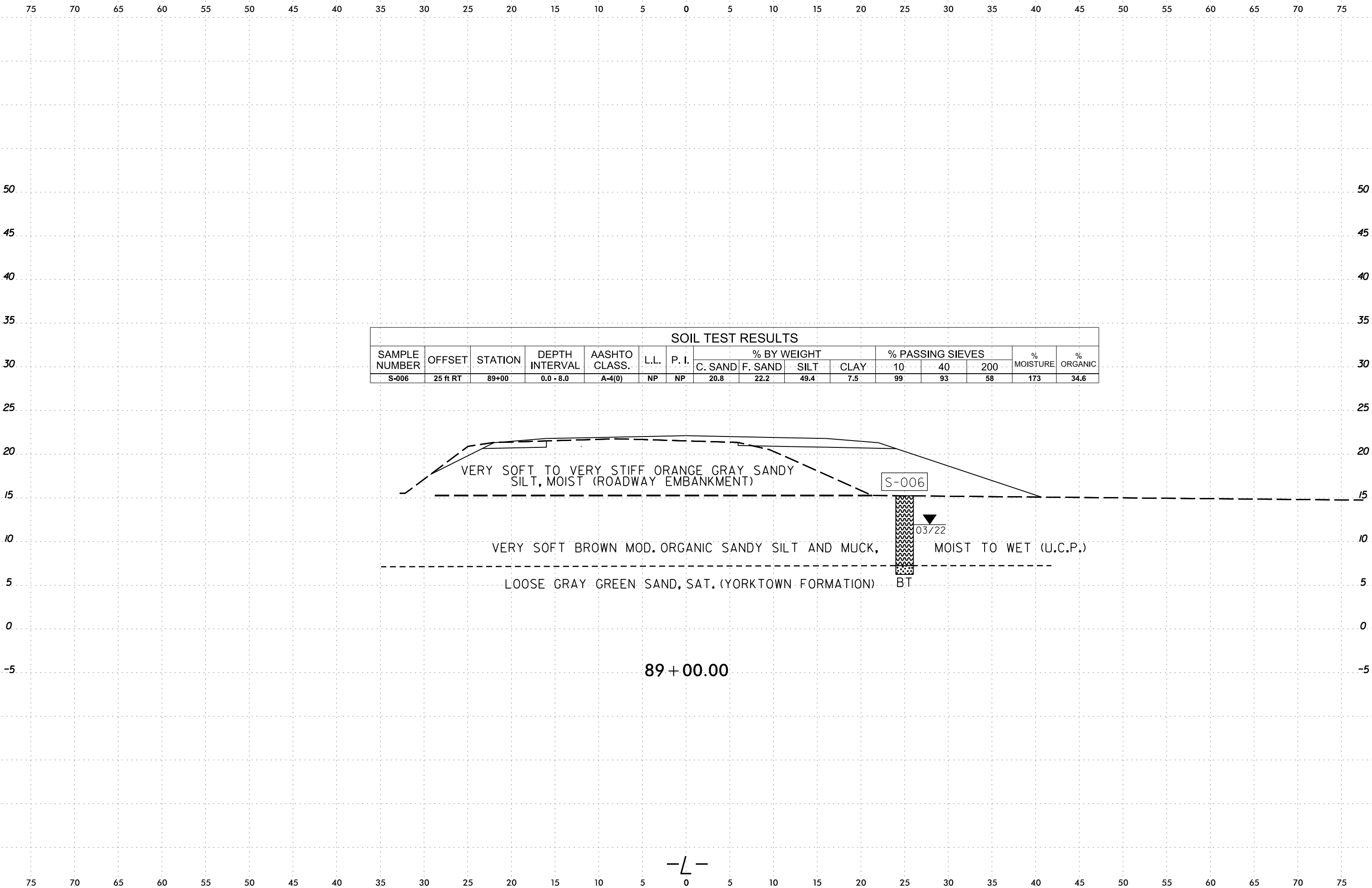
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	172



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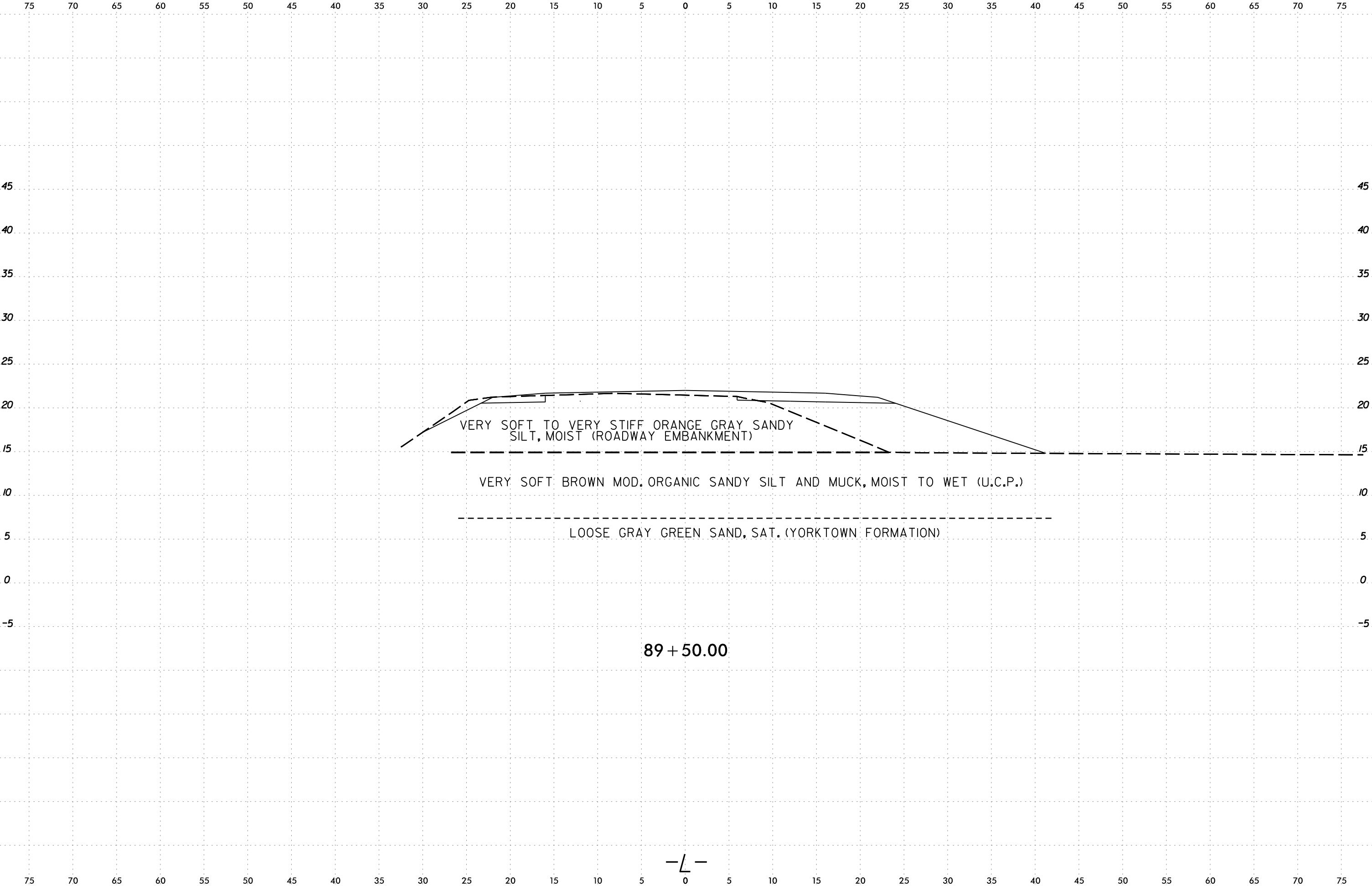
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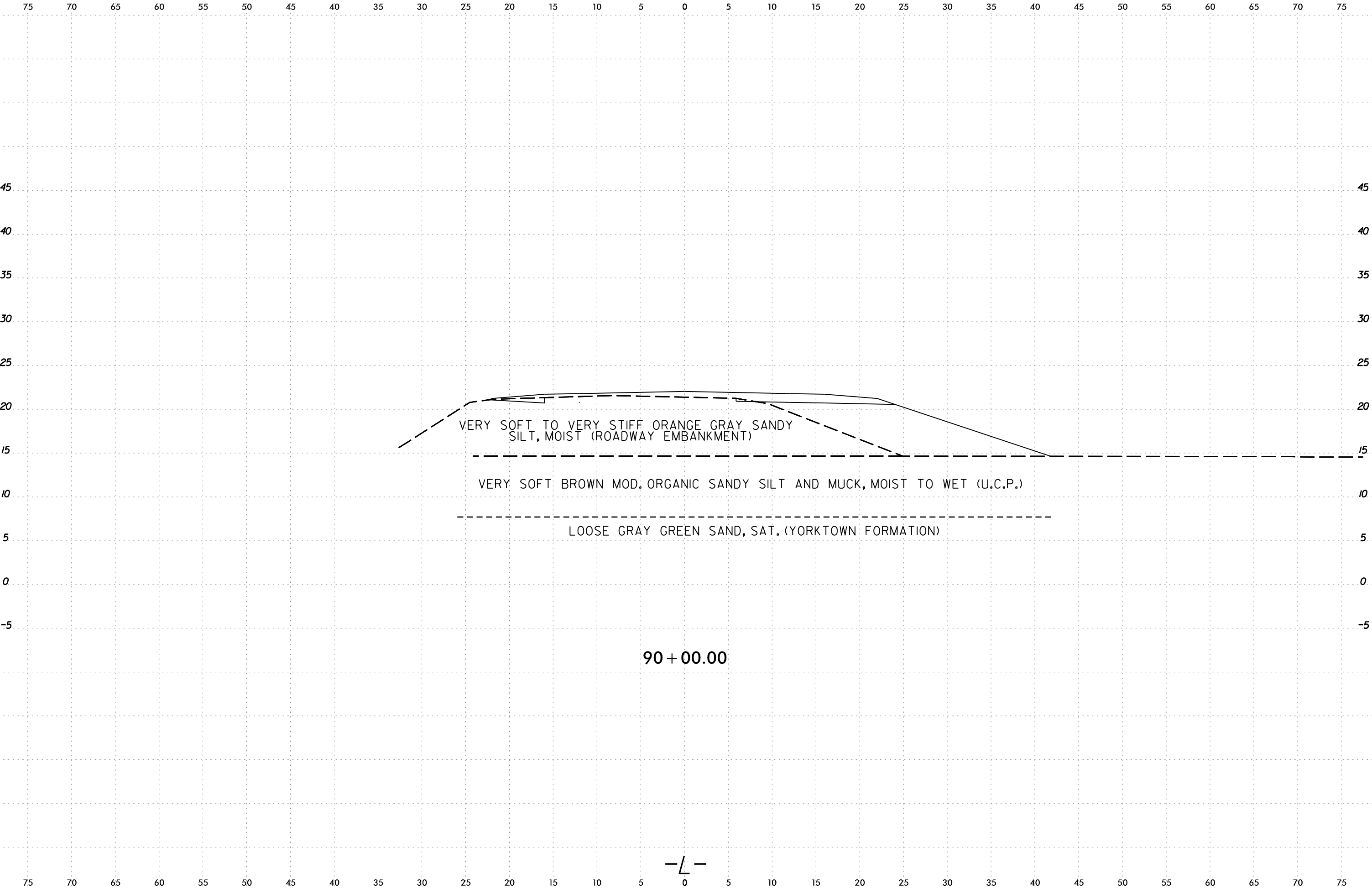
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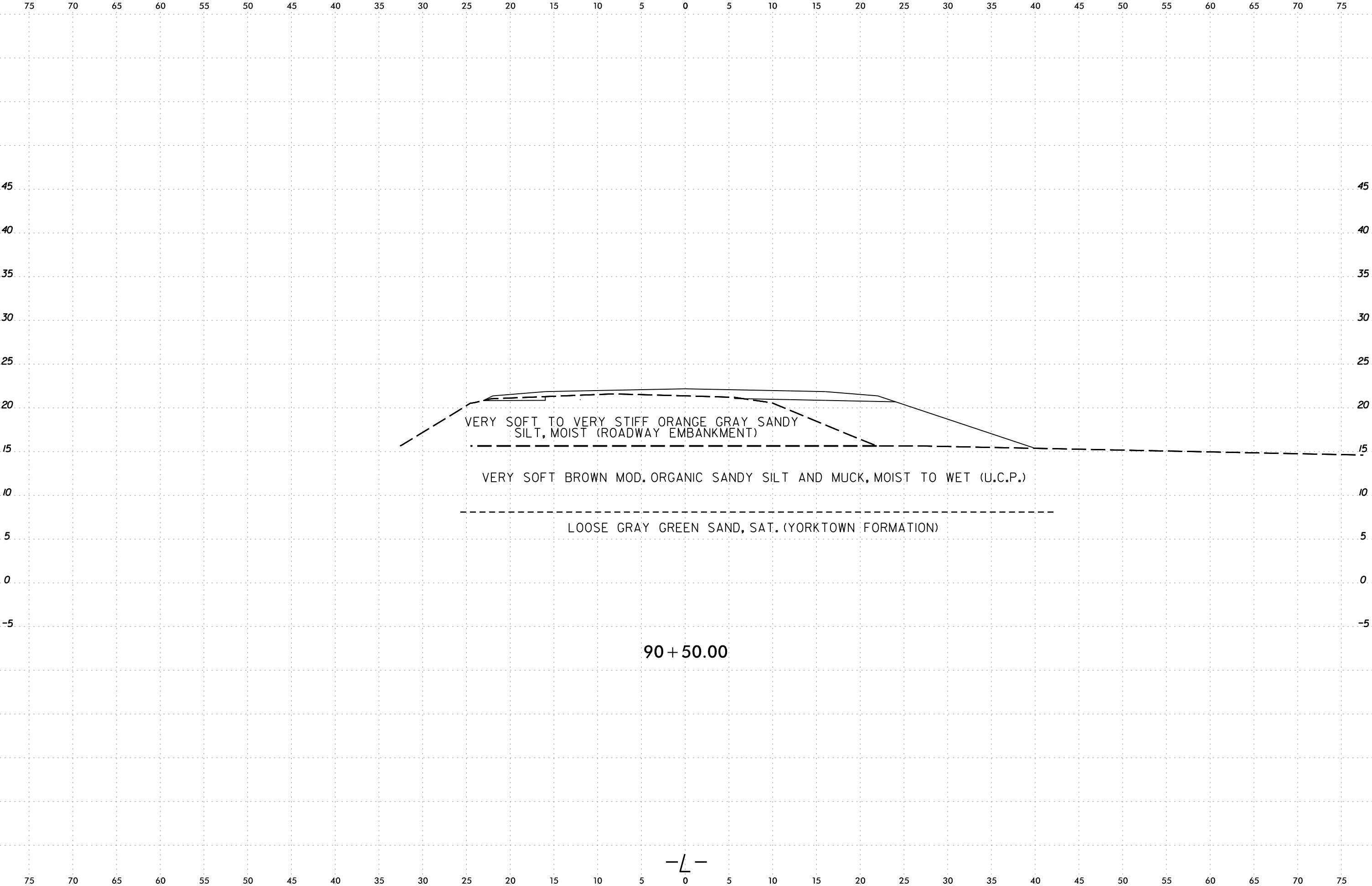
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	R-5808	175



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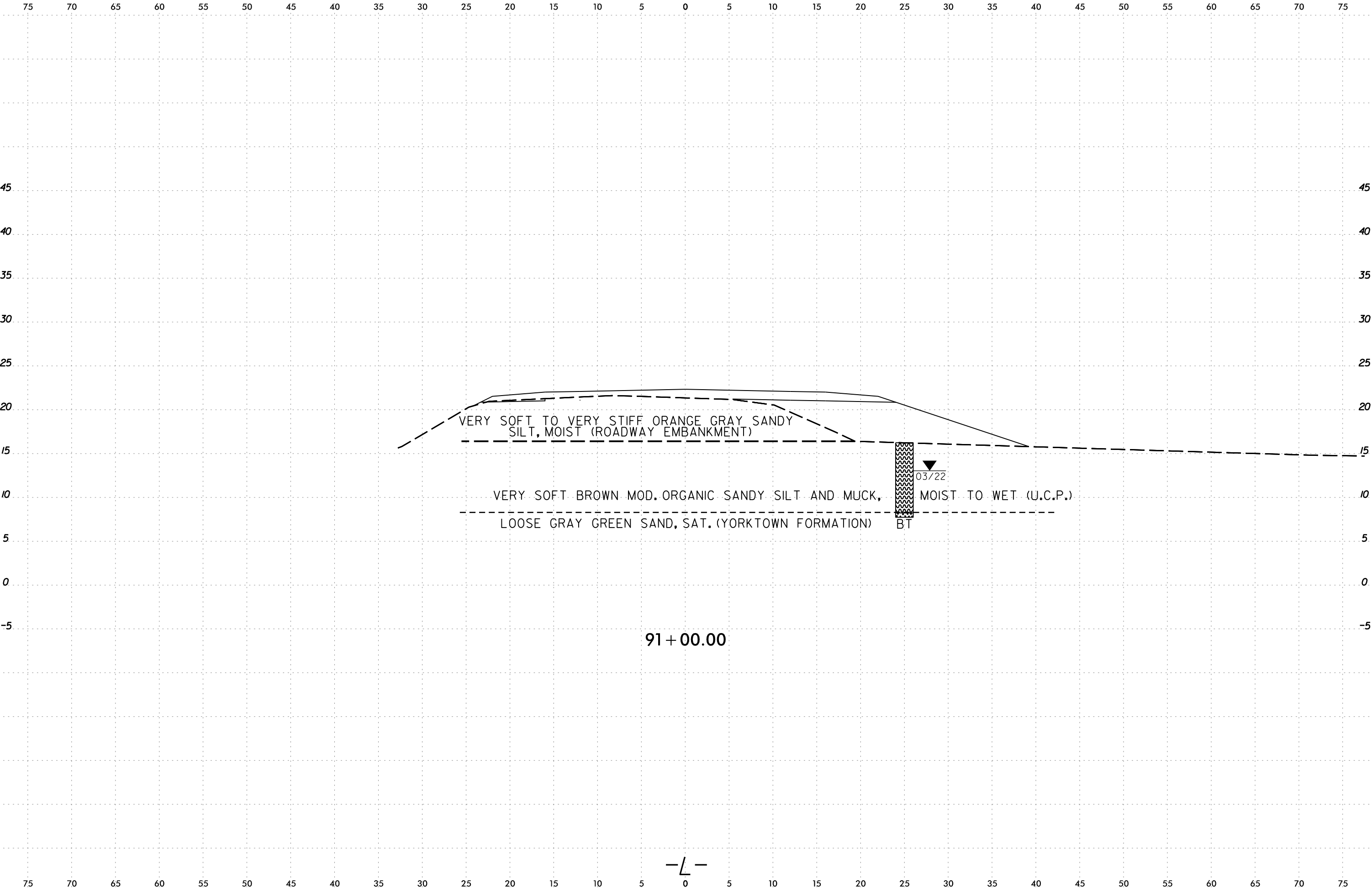
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	R-5808	176



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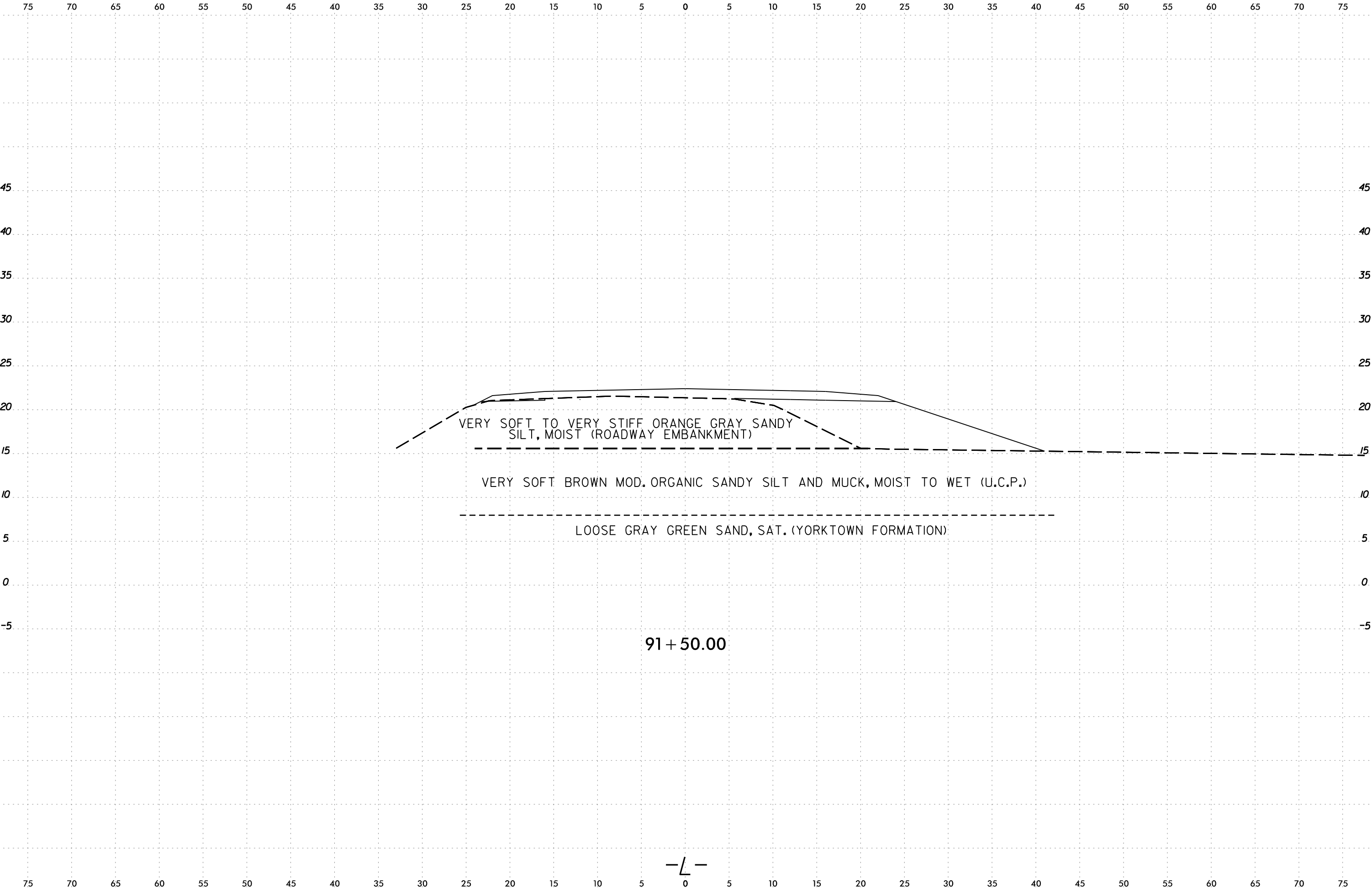
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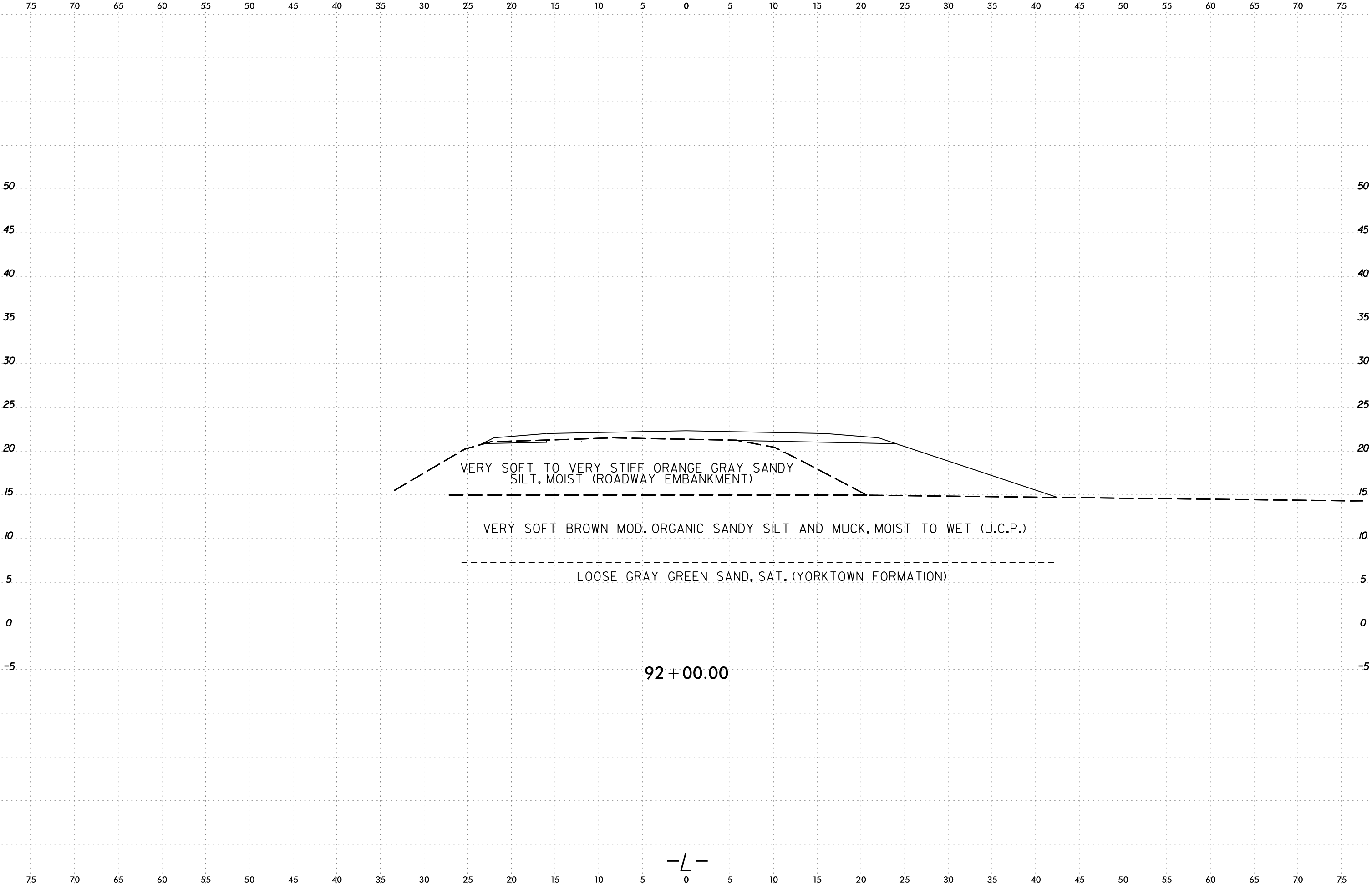
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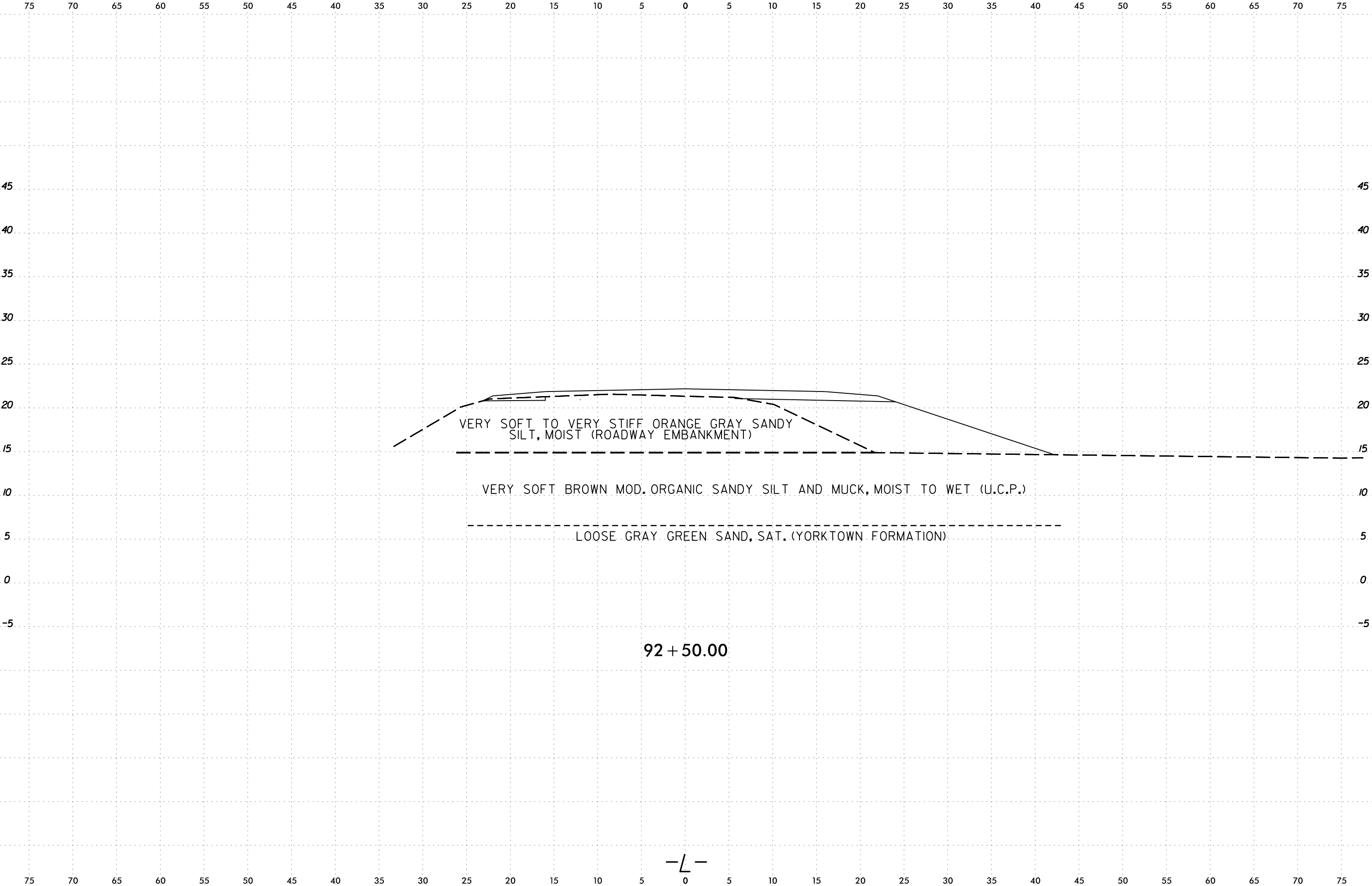
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	R-5808	179



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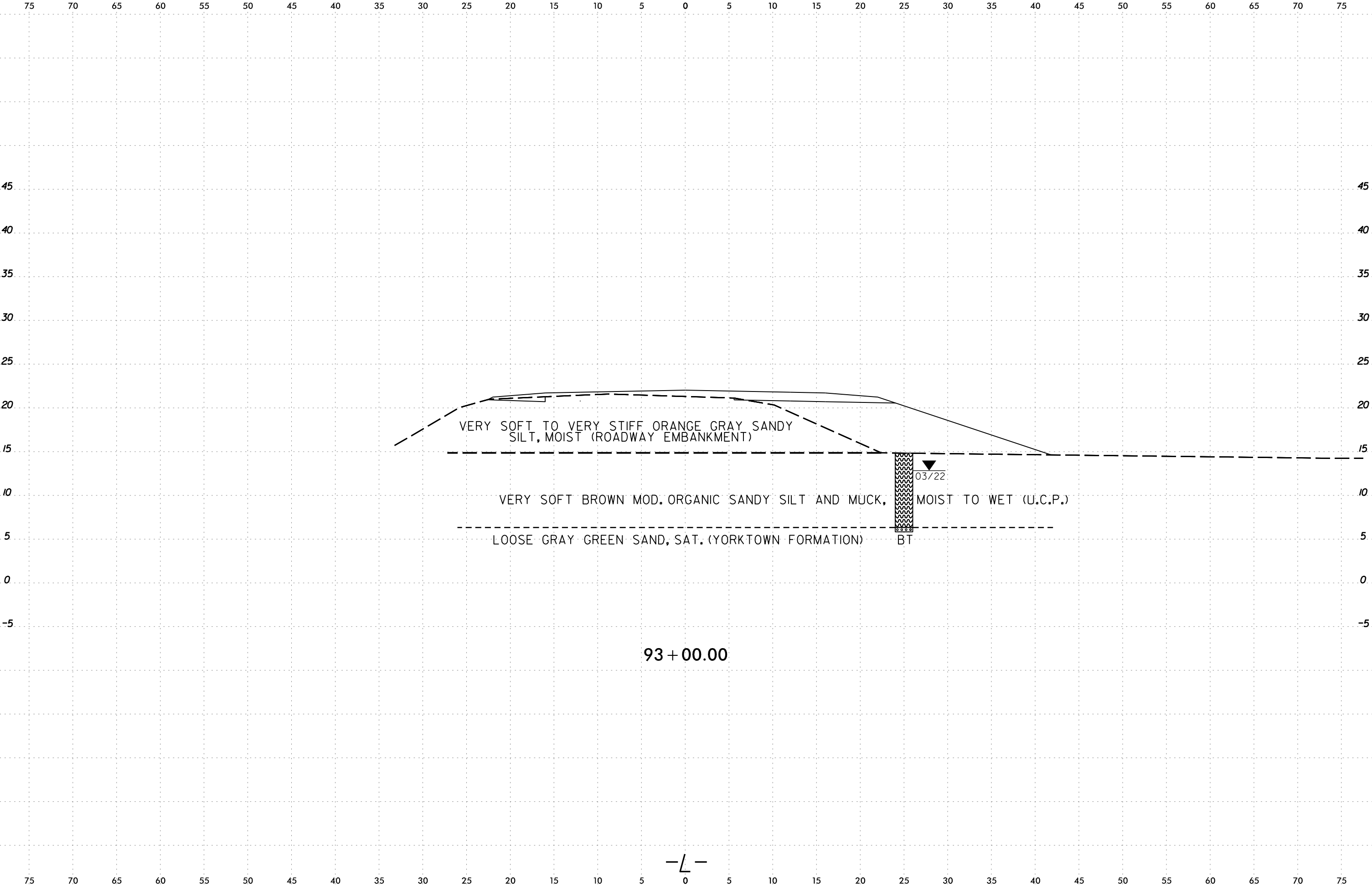
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Lee Stone AT LSTONE-CAD-PC

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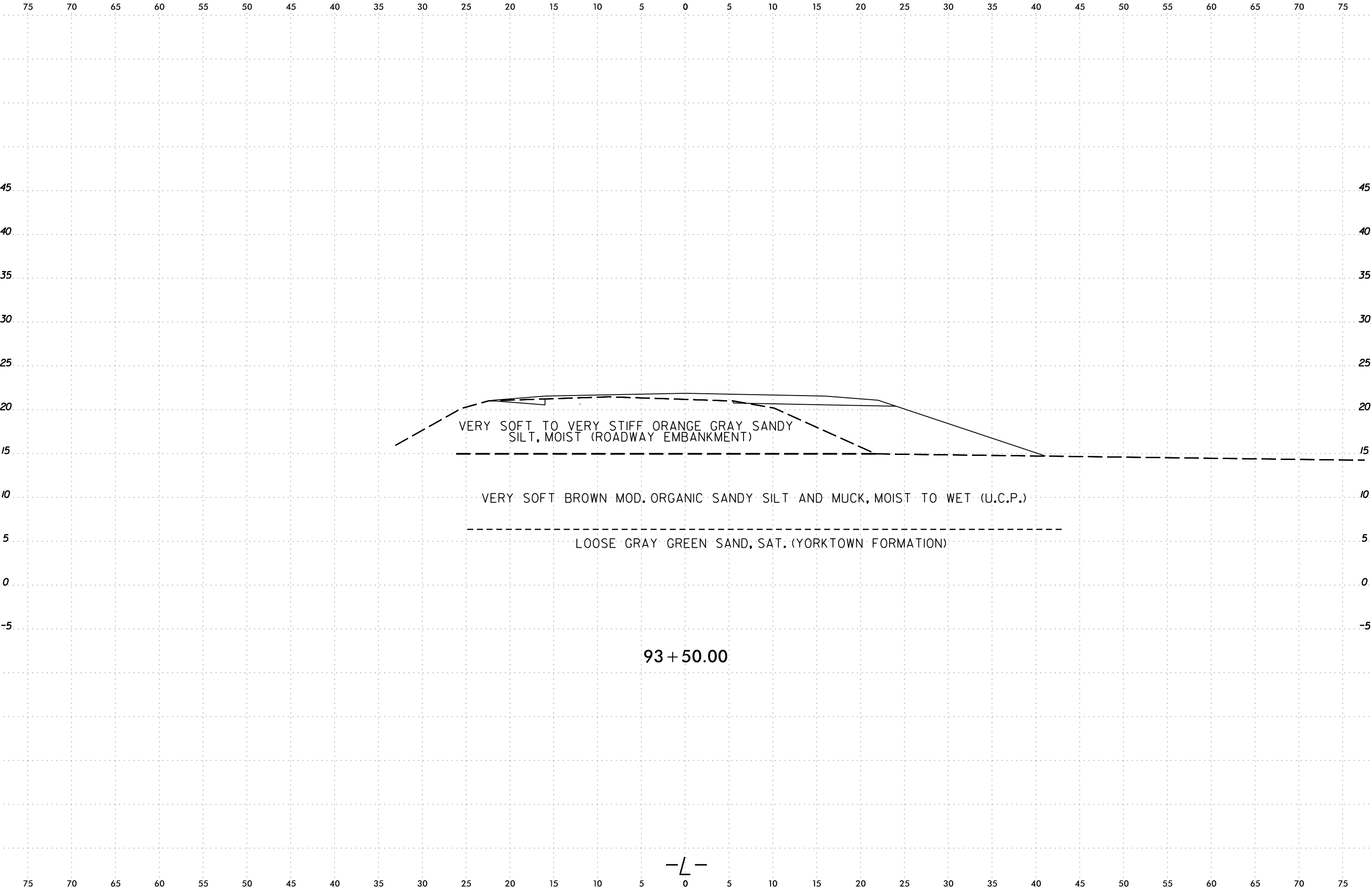


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Lee Stone AT LSTONE-CAD-PC

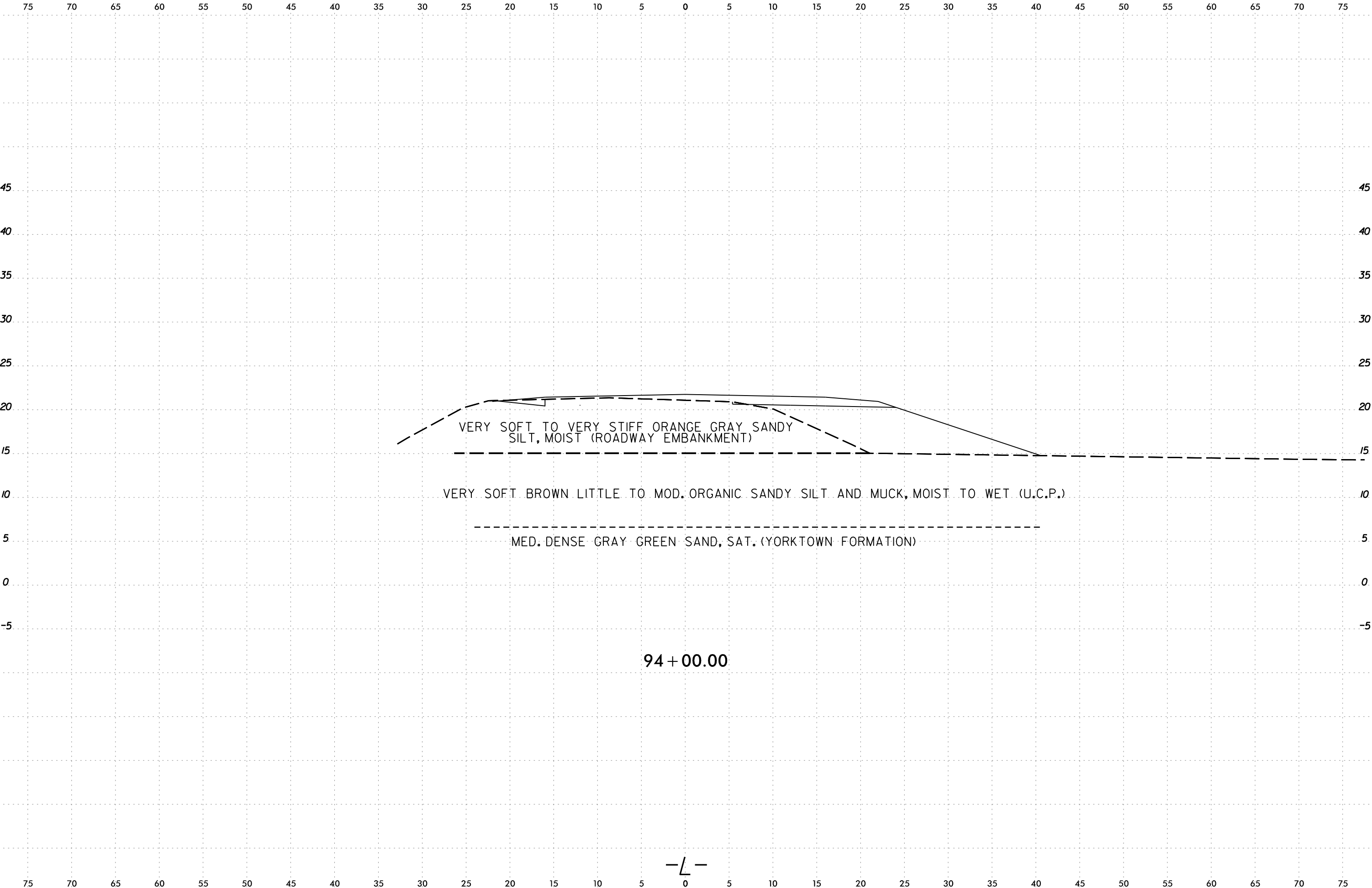
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Lee Stone AT LSTONE-CAD-PC

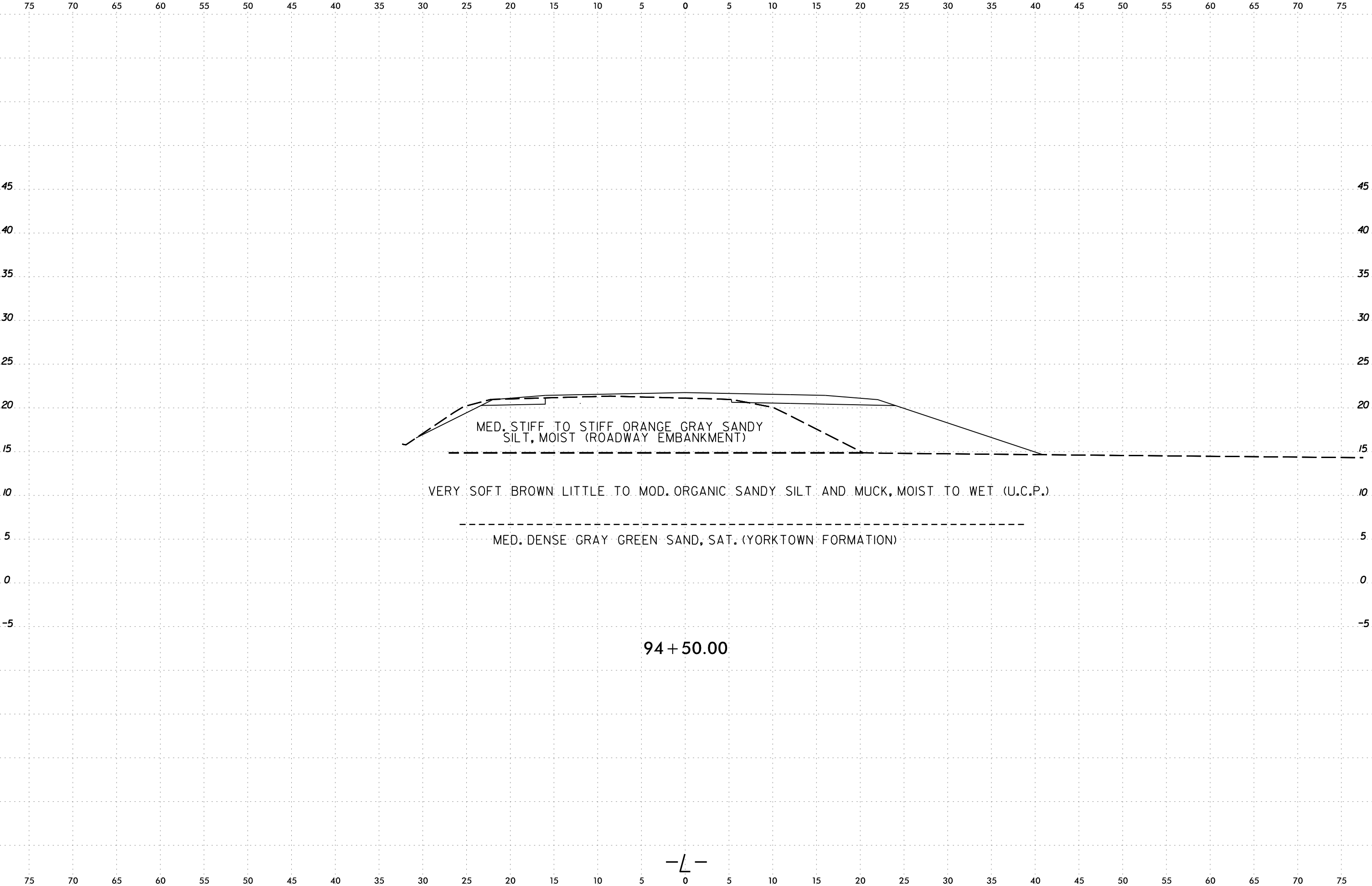
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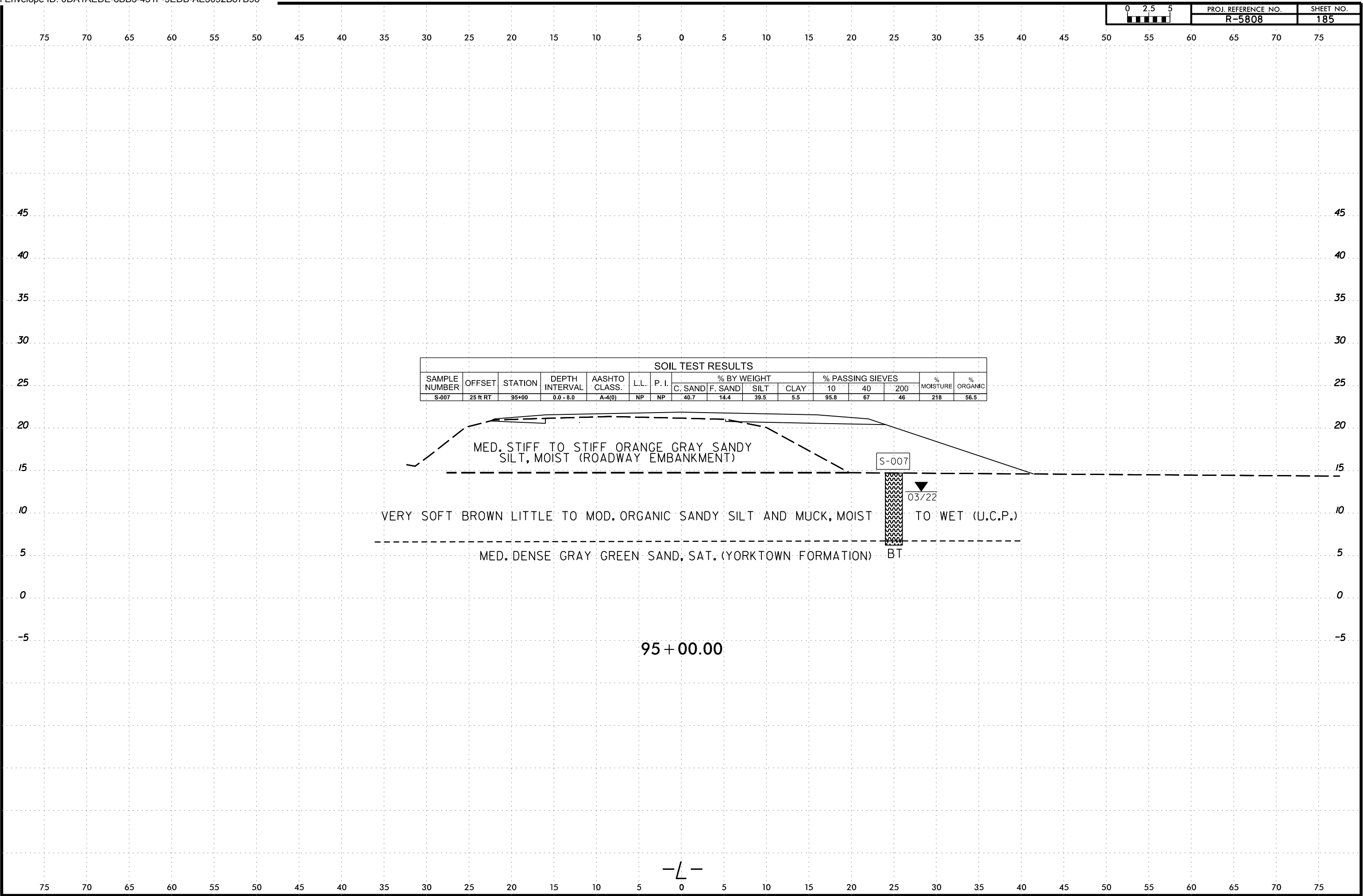


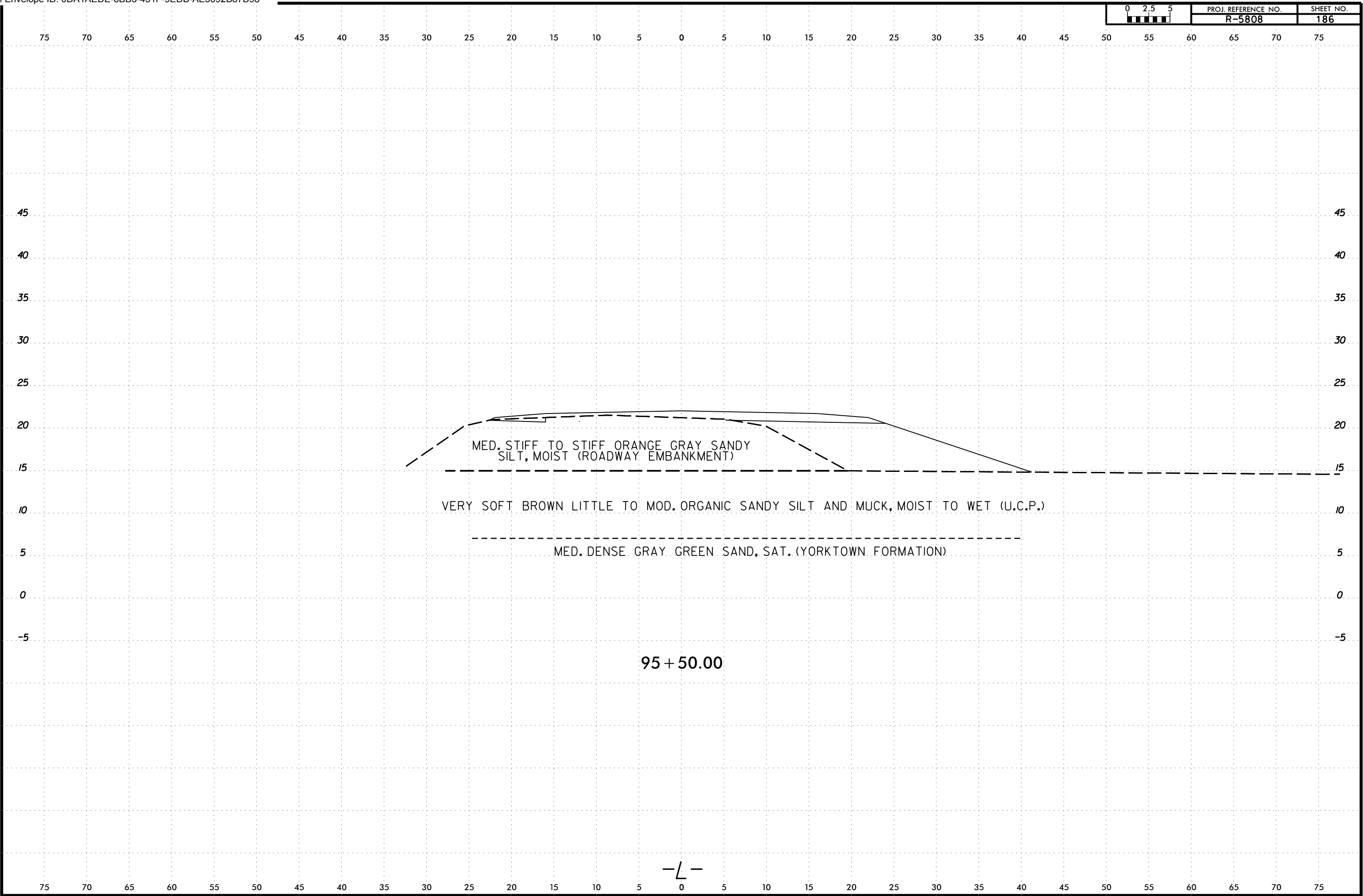
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Lee Stone AT LSTONE-CAD-PC

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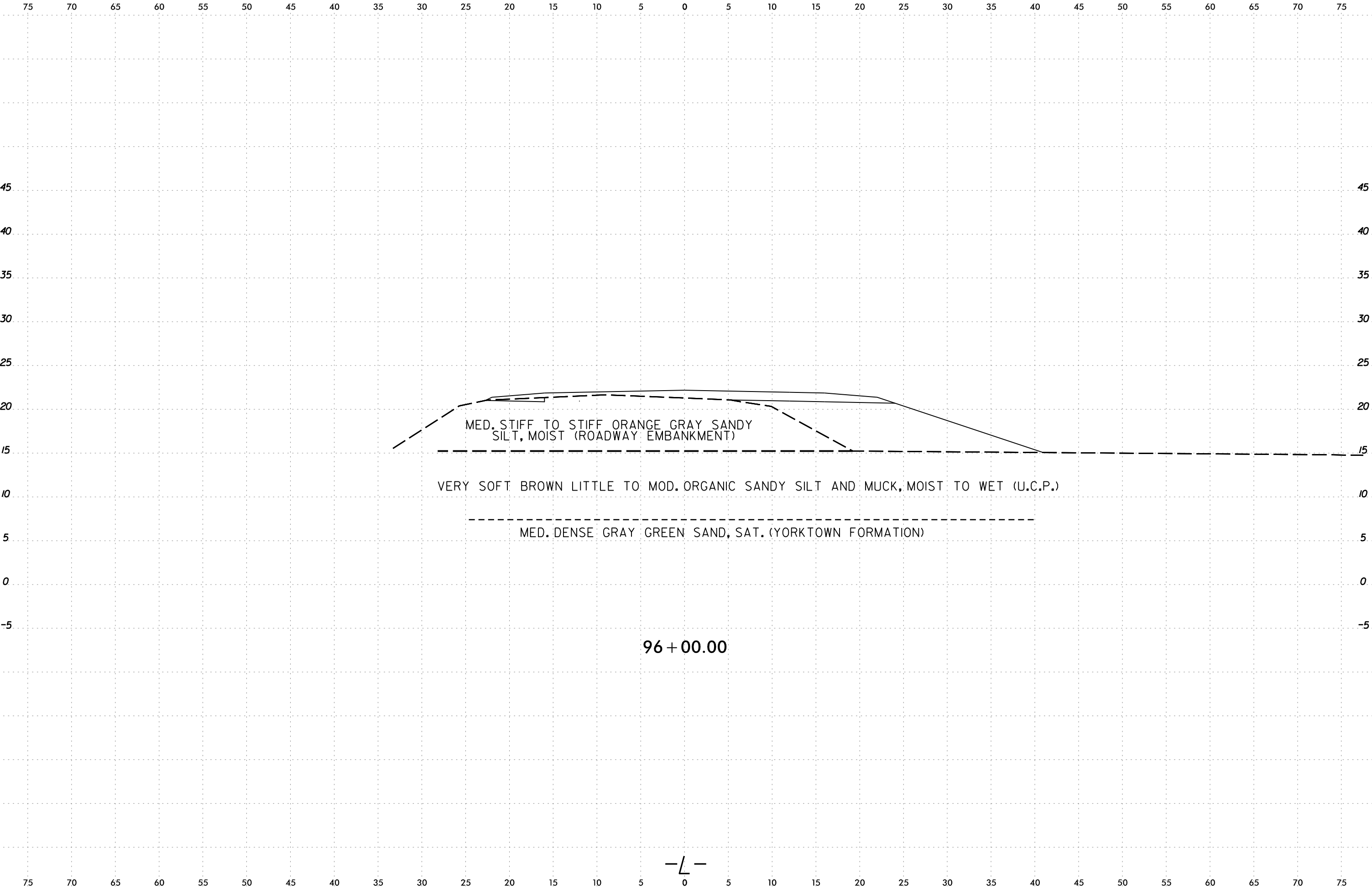




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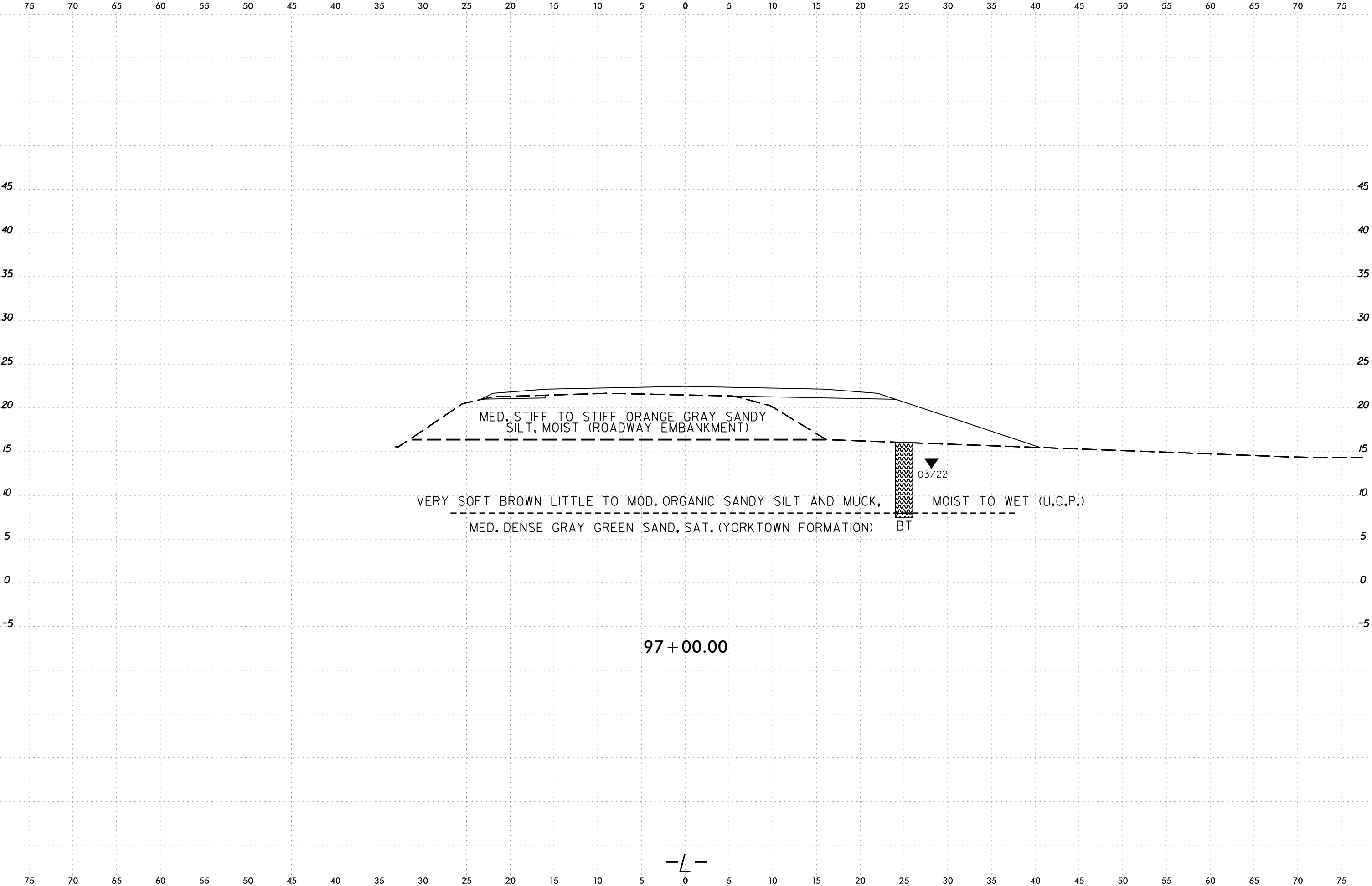




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Lee Stone AT LSTONE-CAD-PC

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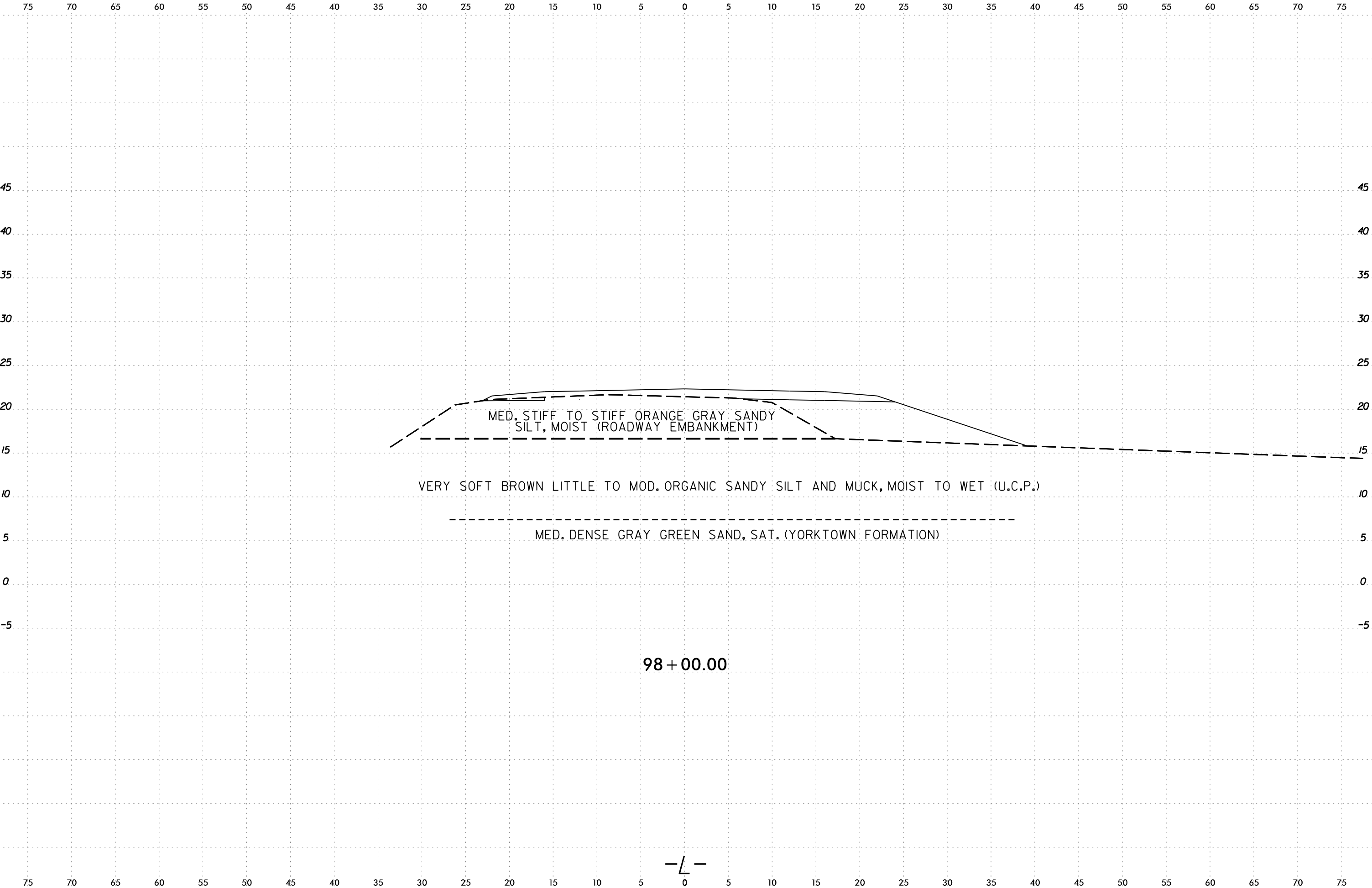




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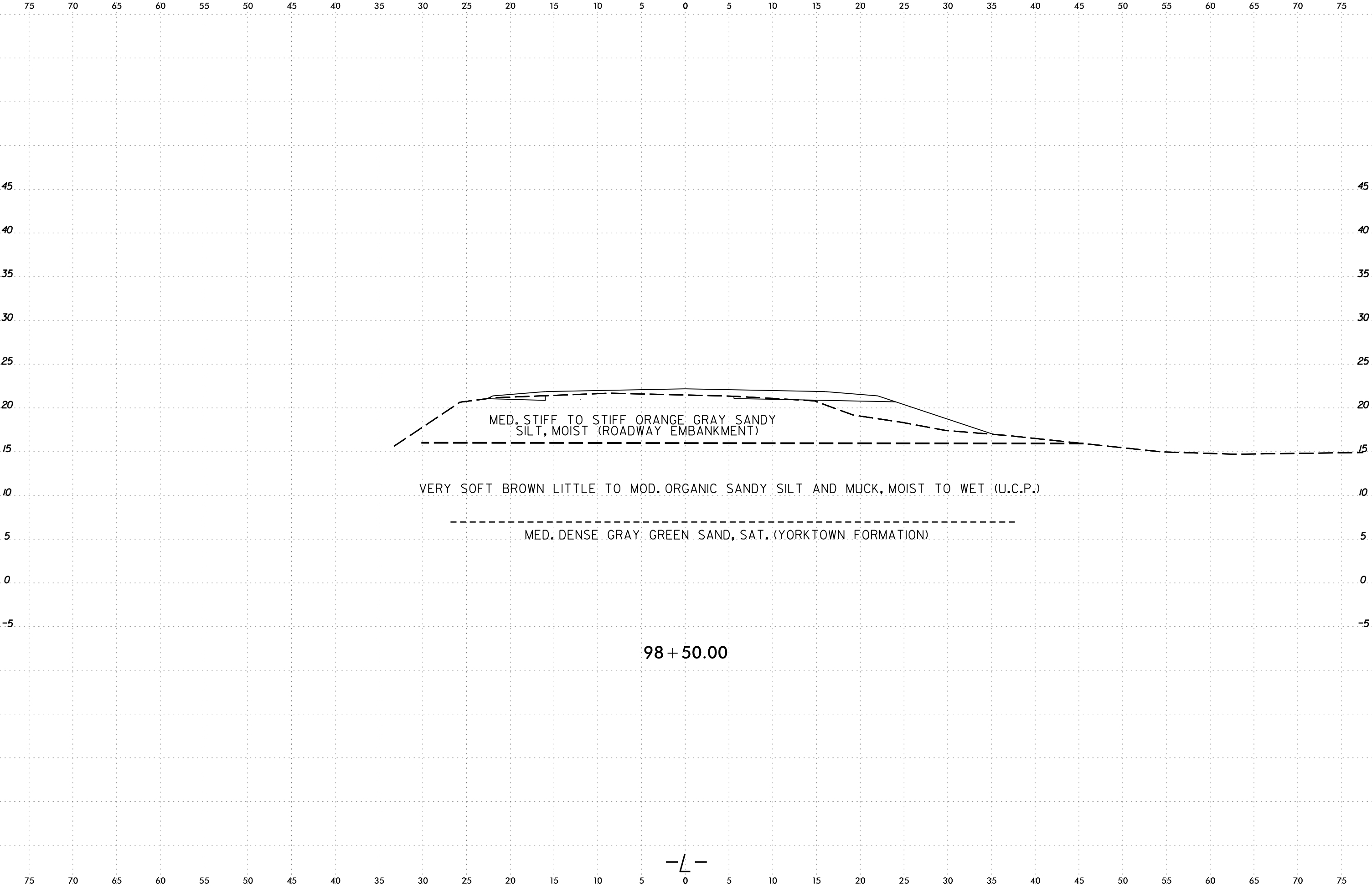
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Lee Stone AT LSTONE-CAD-PC

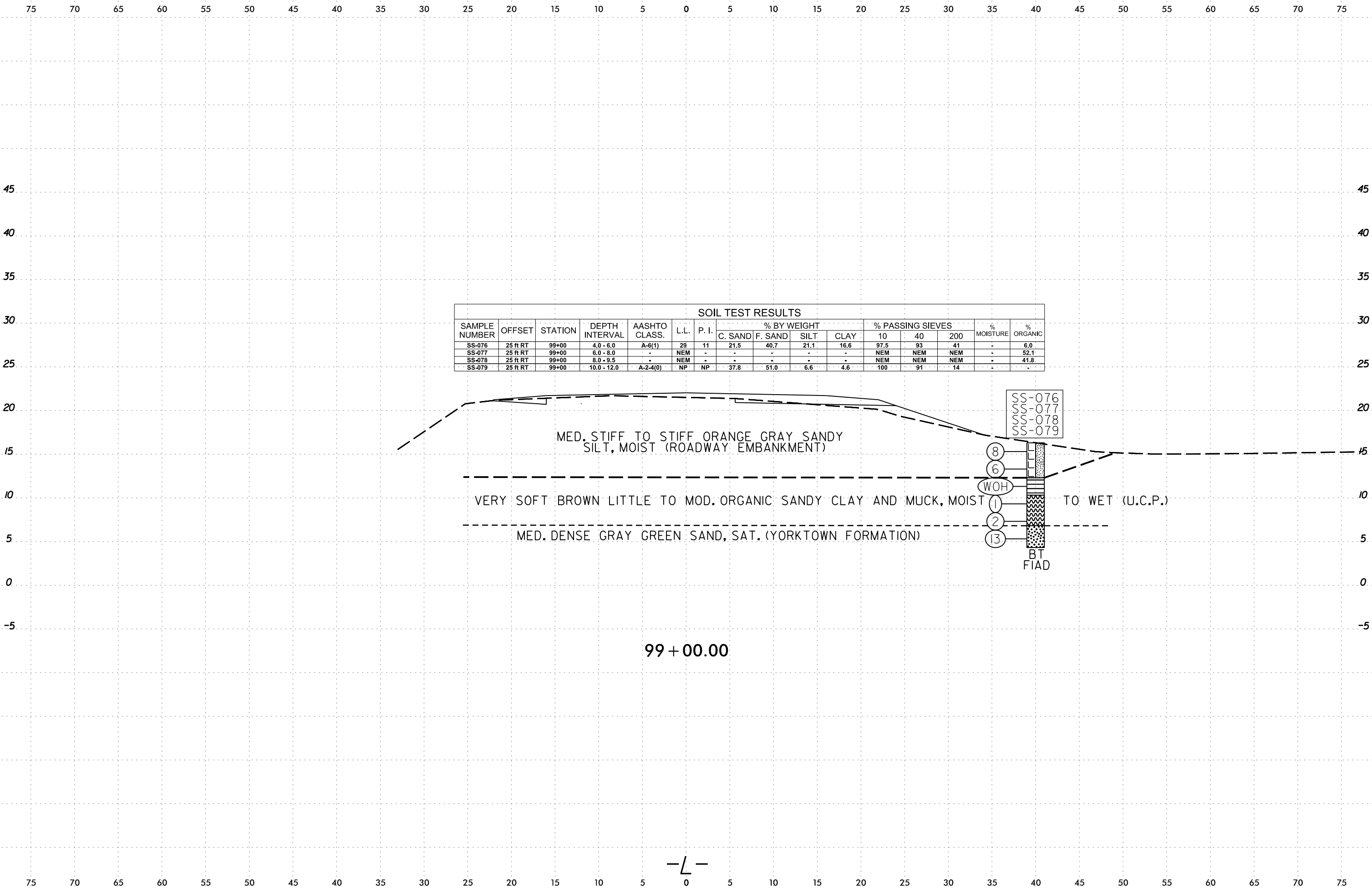
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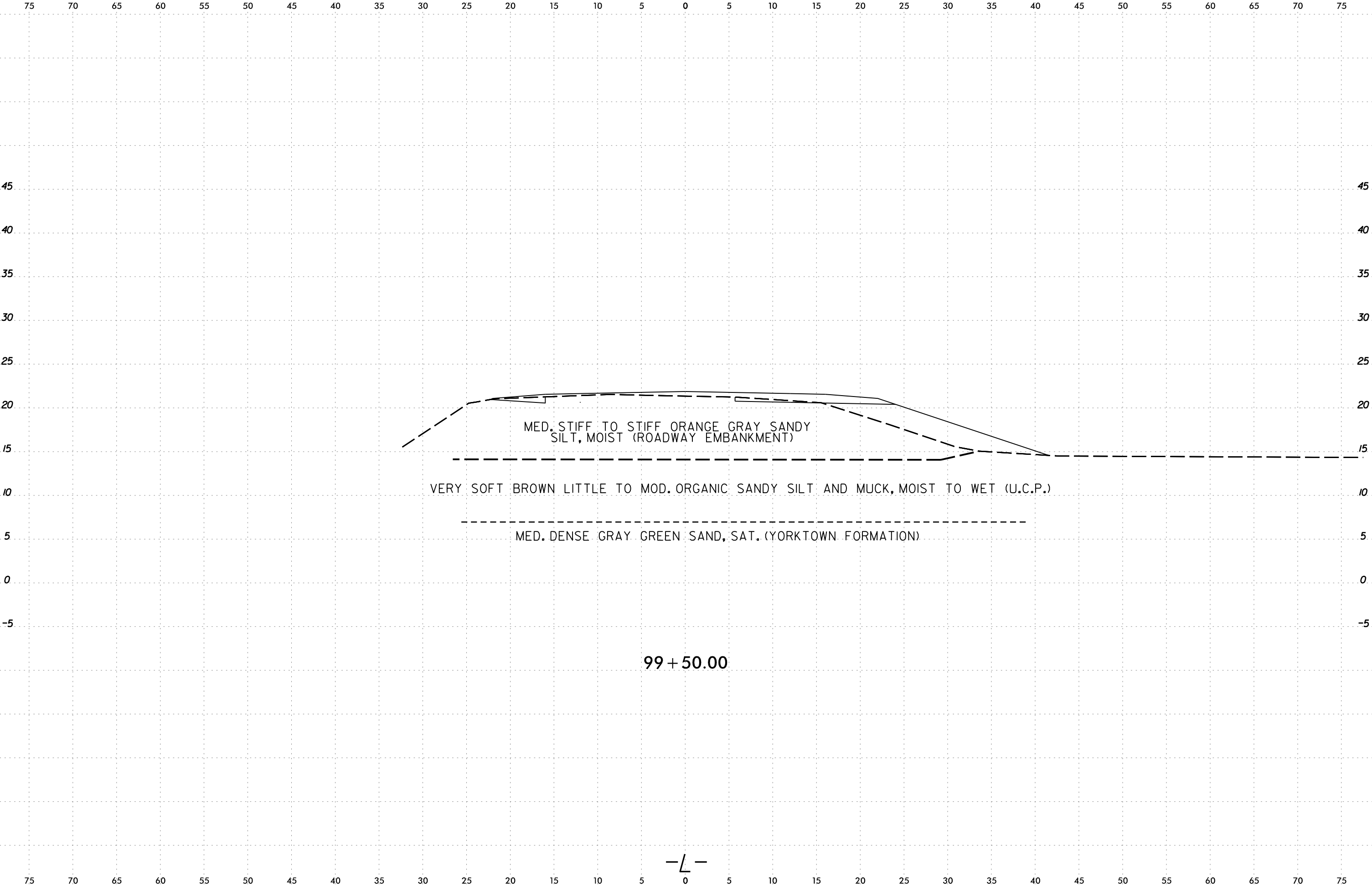
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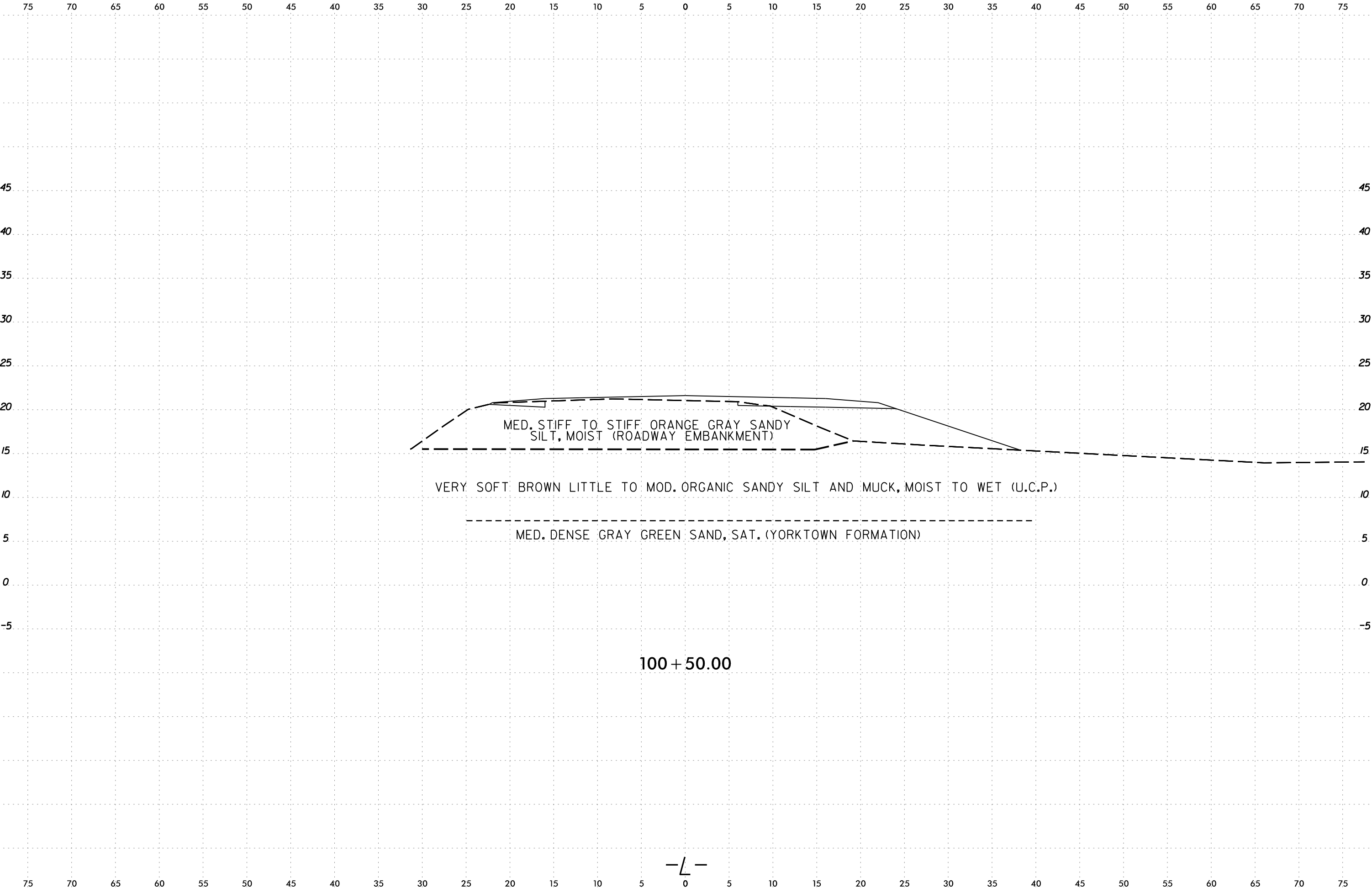


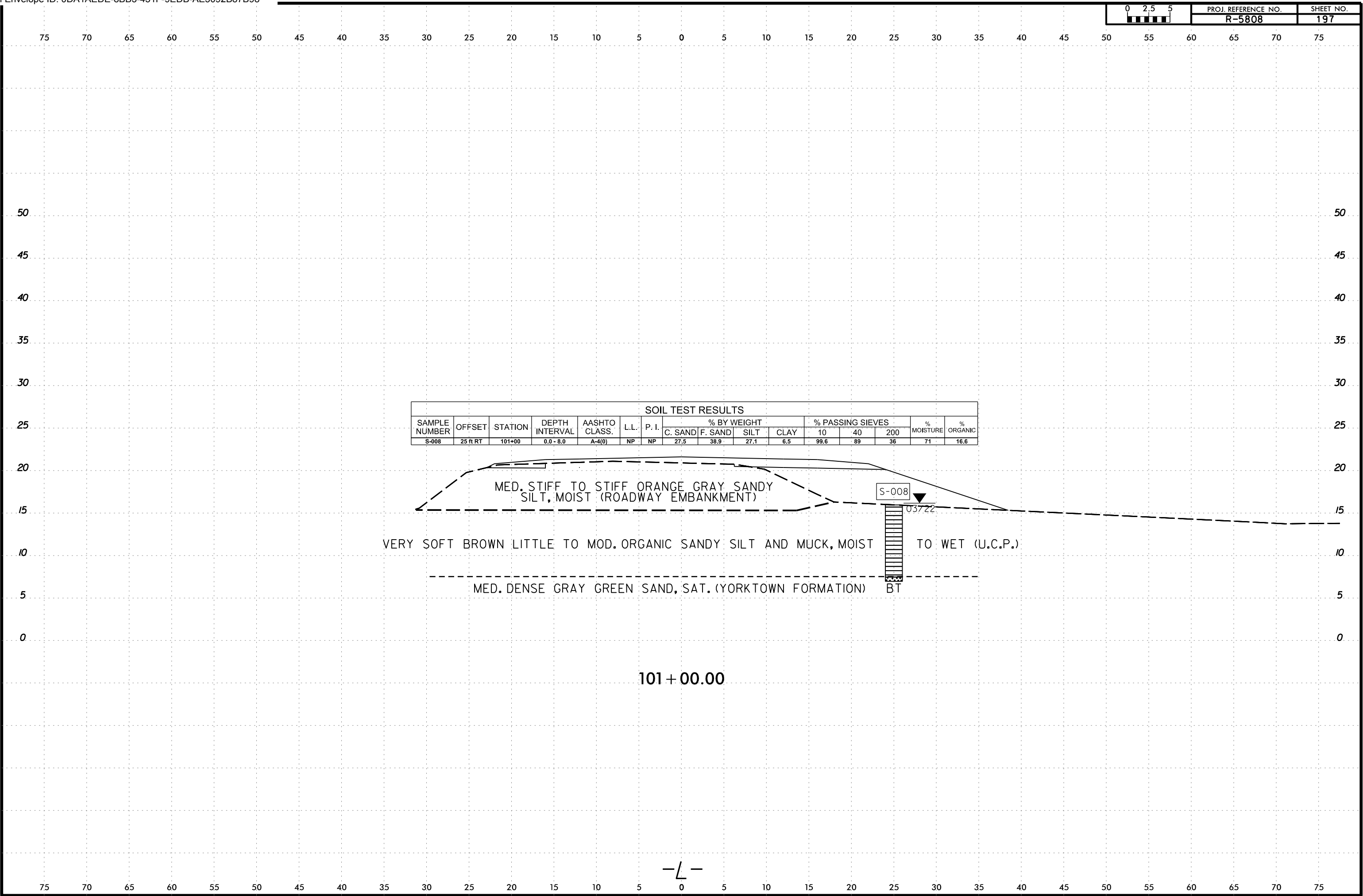


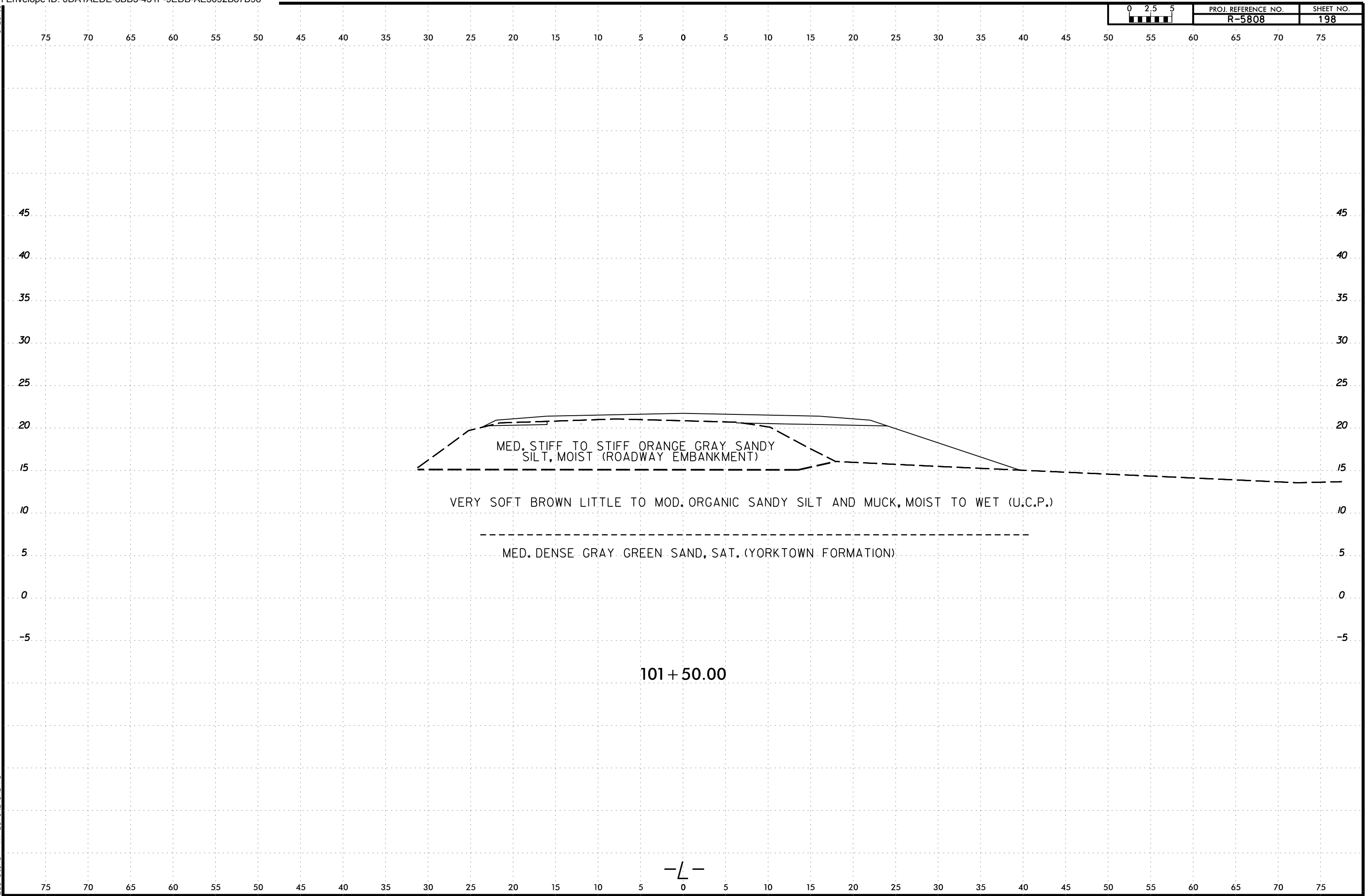
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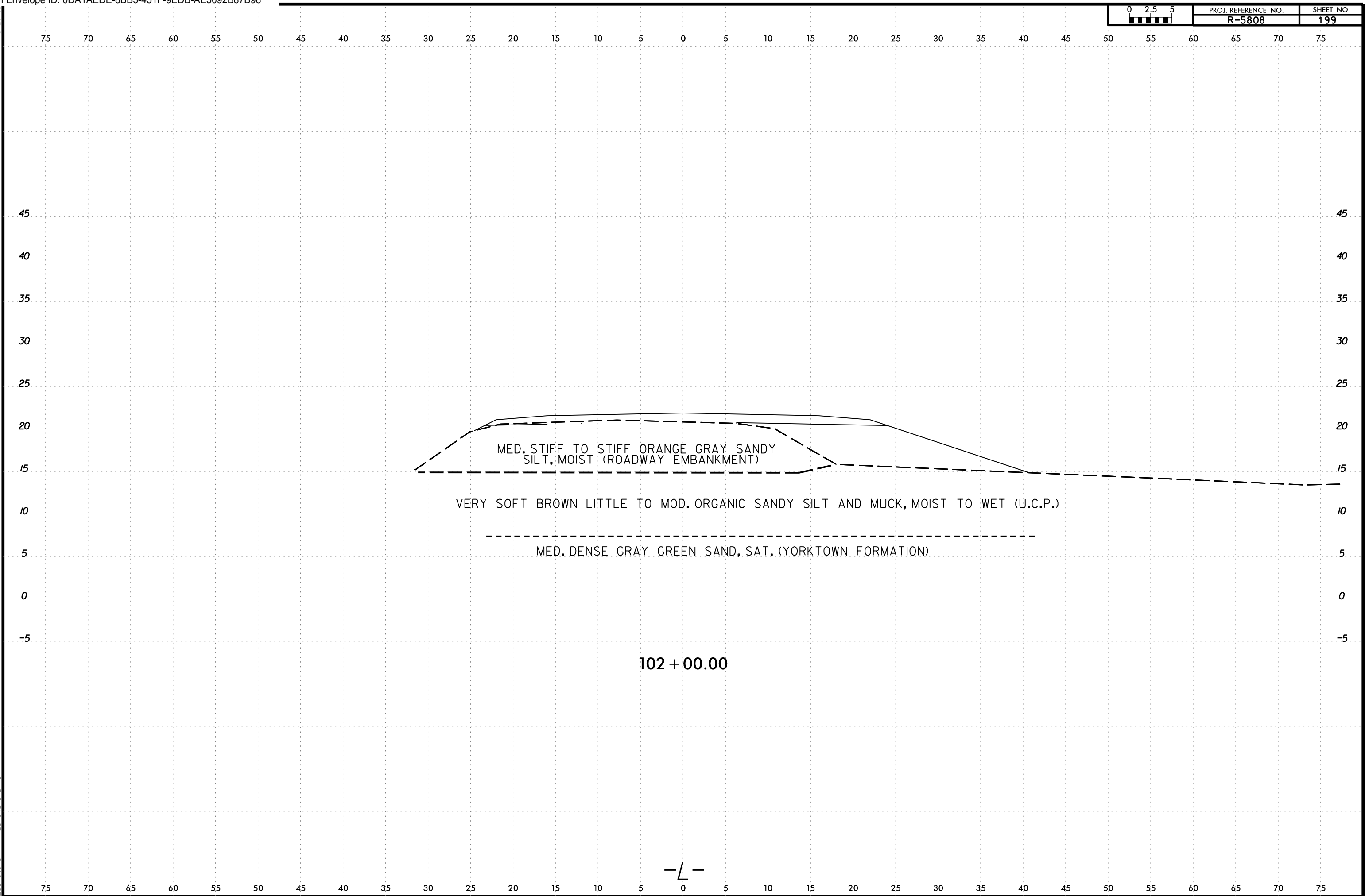
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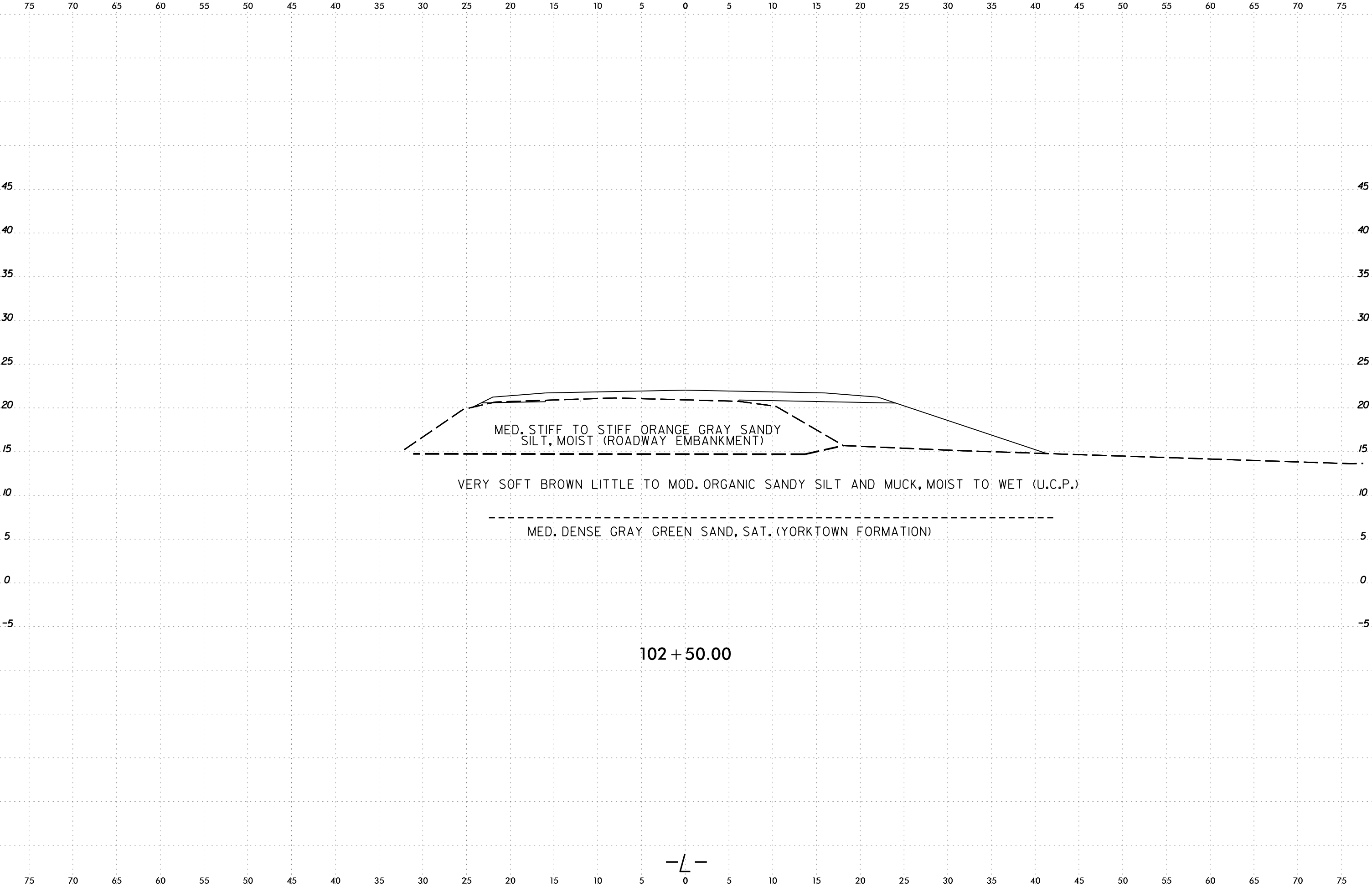




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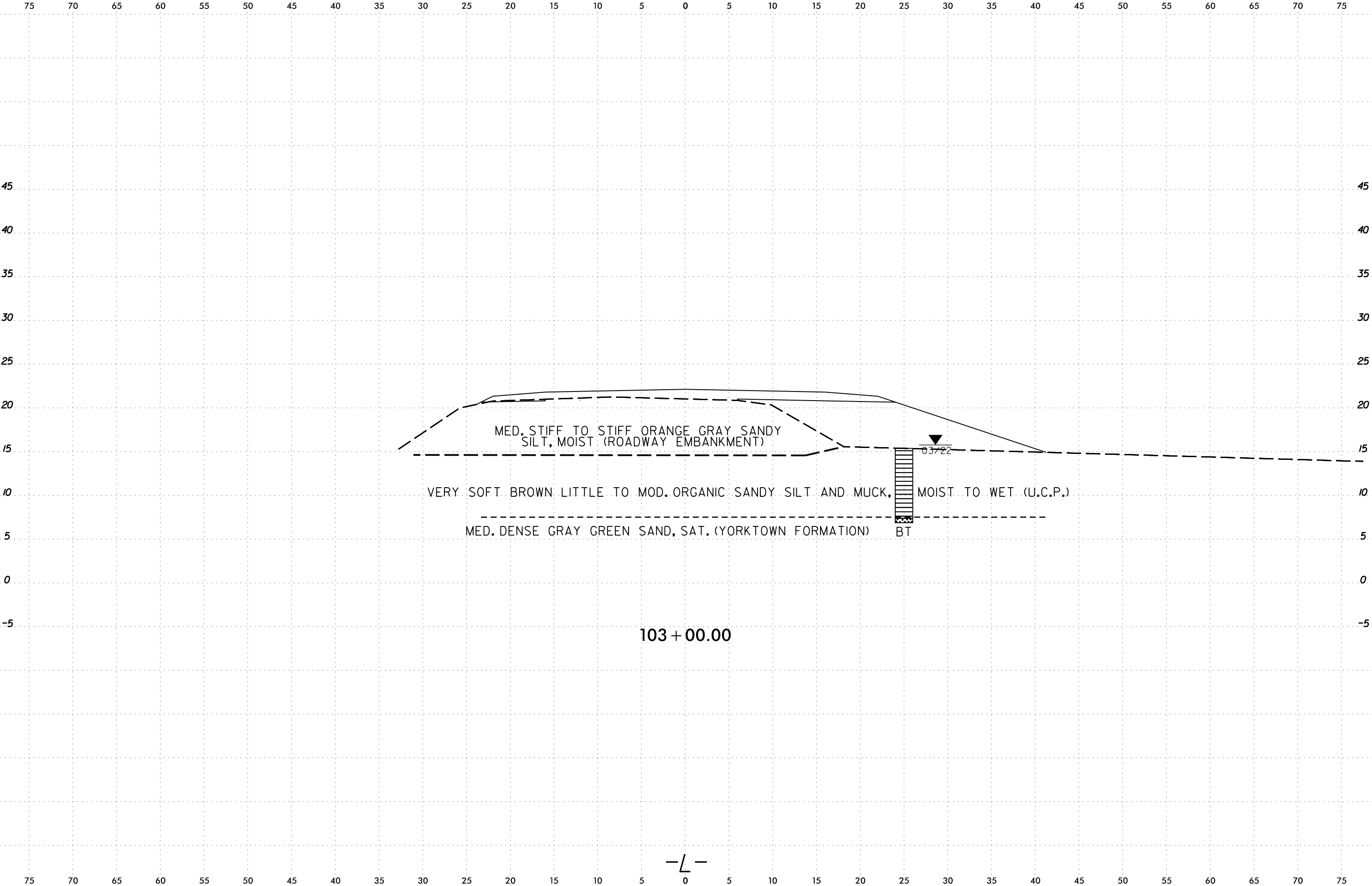
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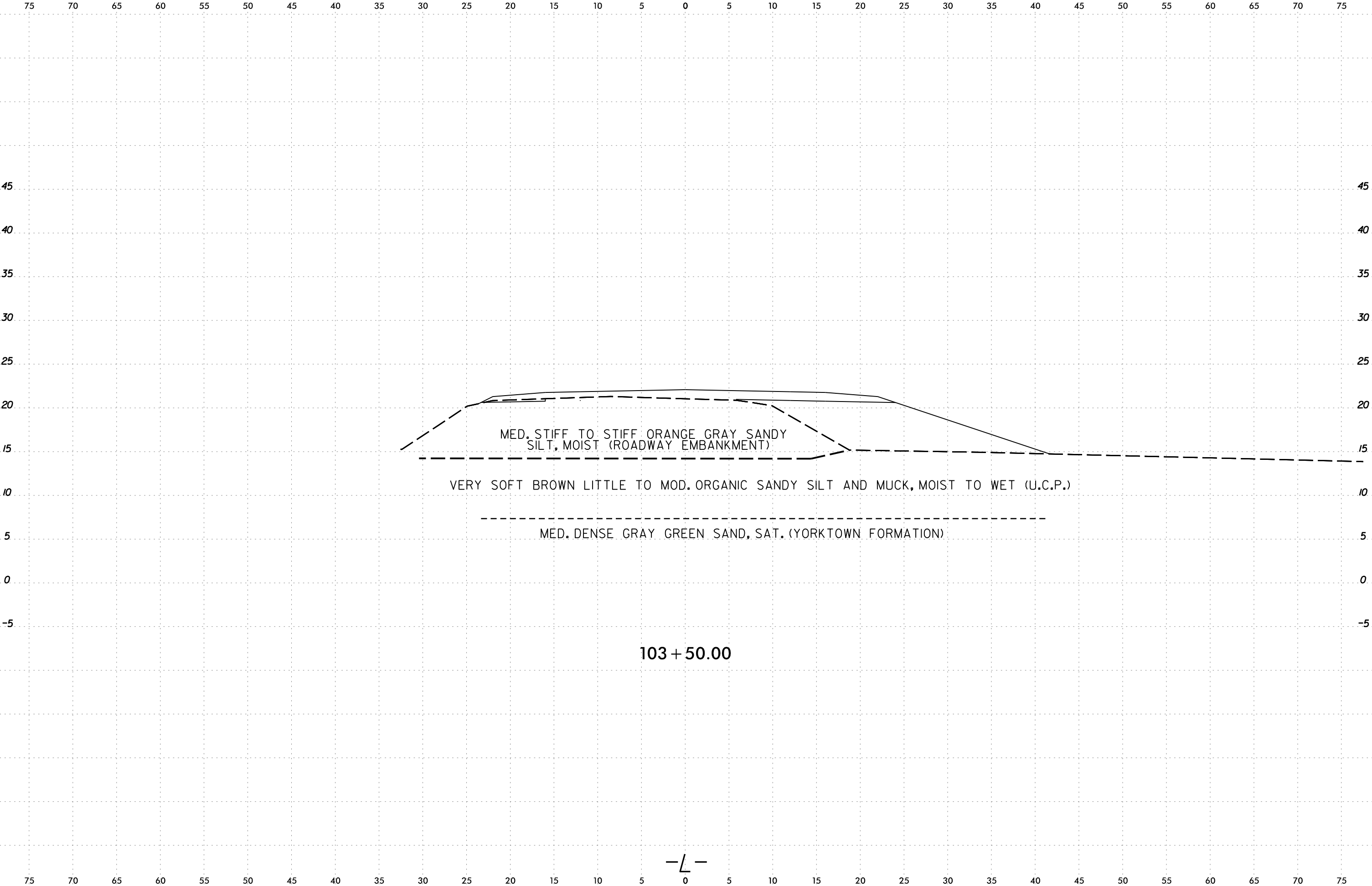
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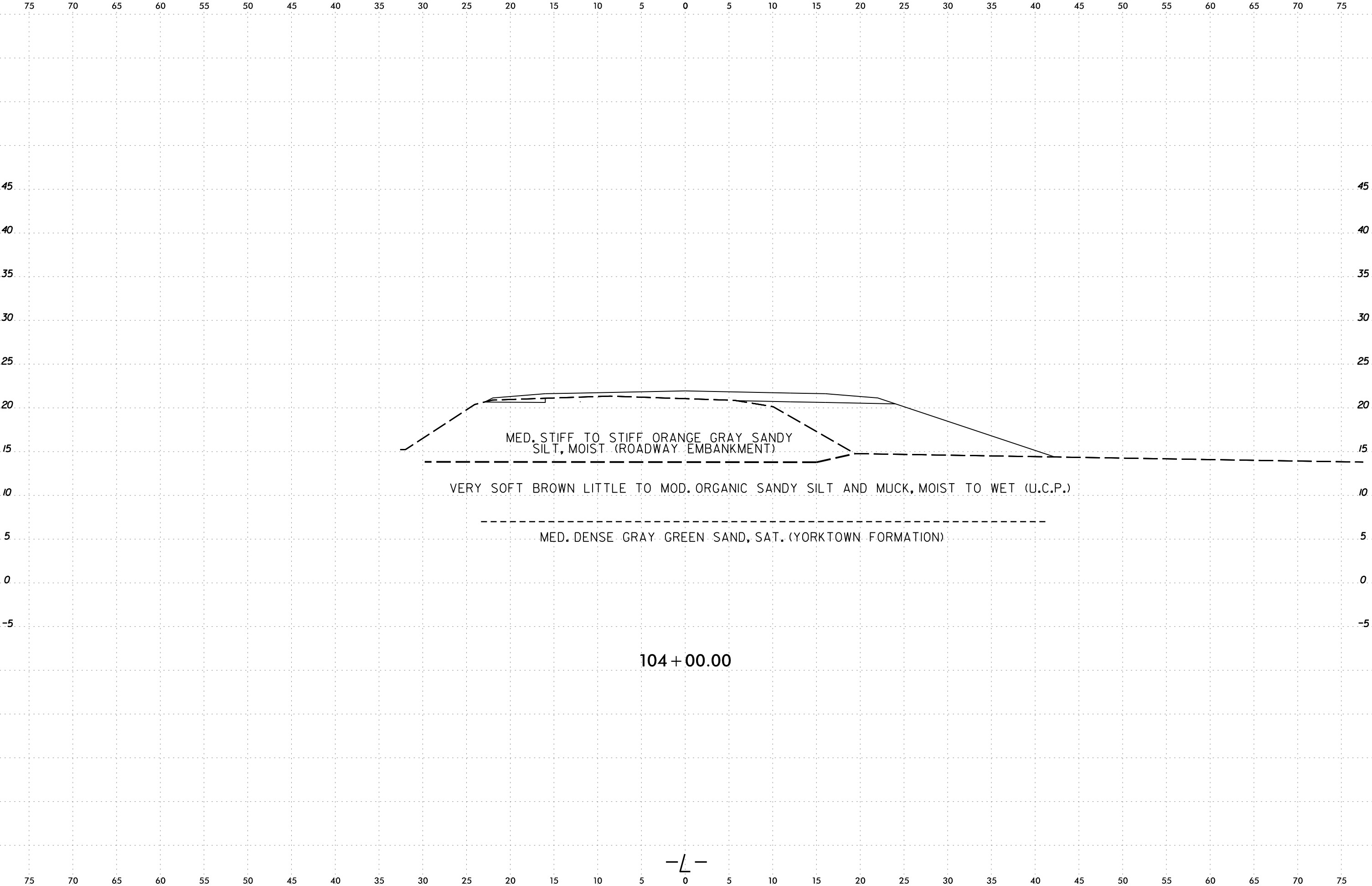
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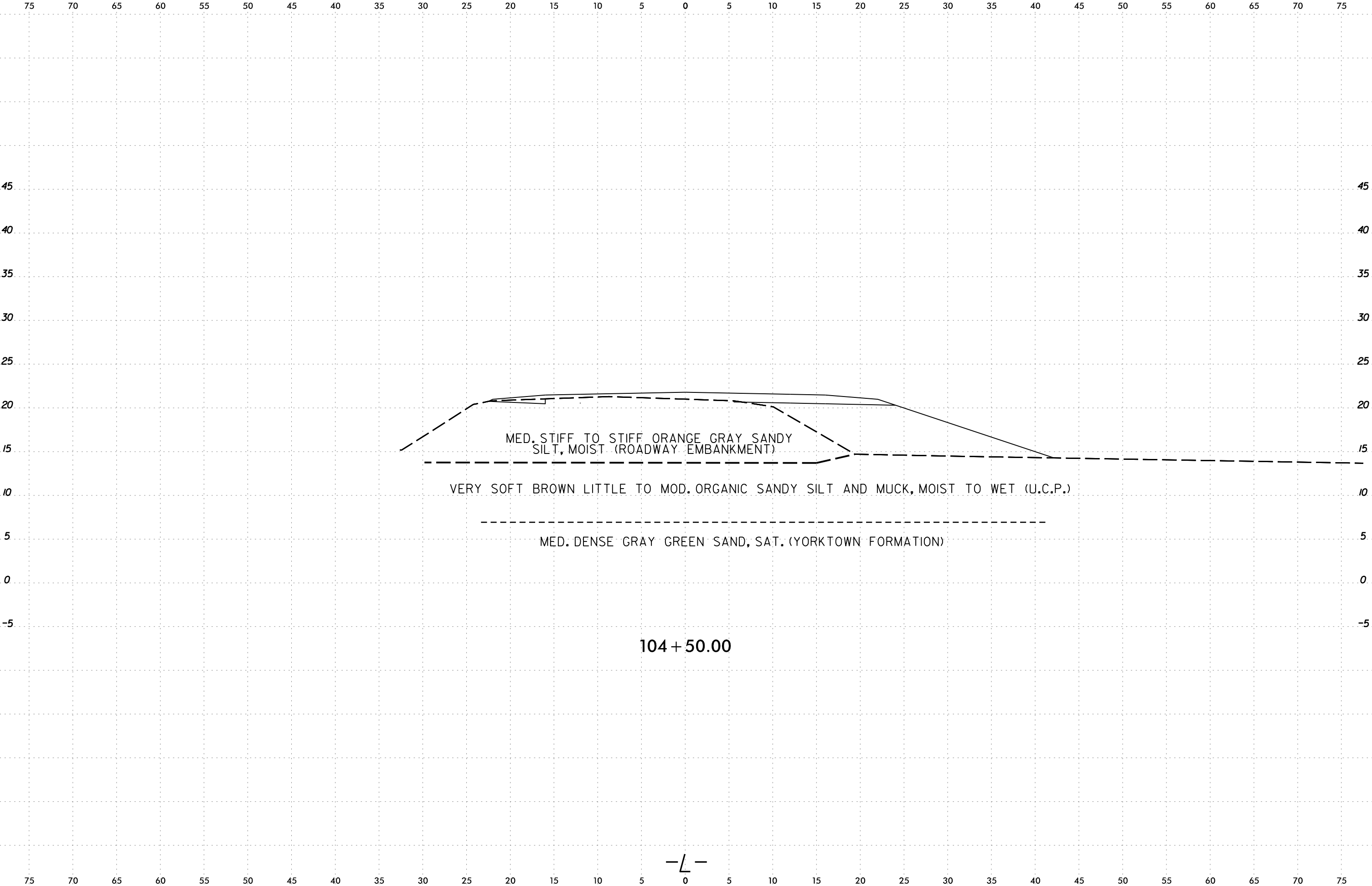
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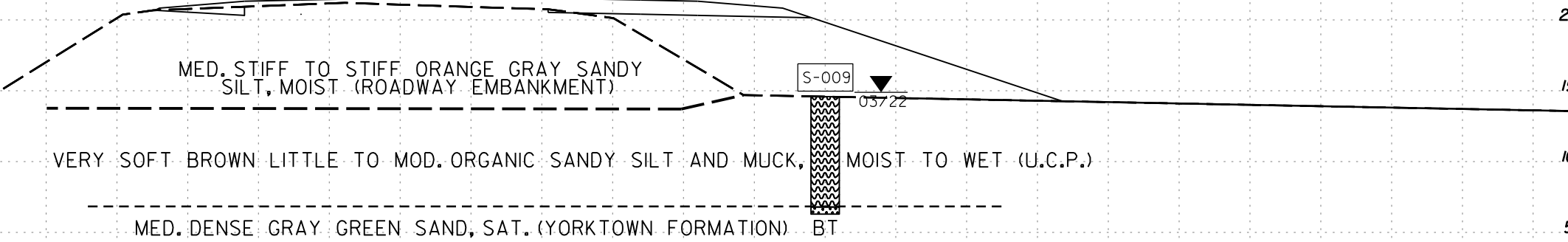


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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	205

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

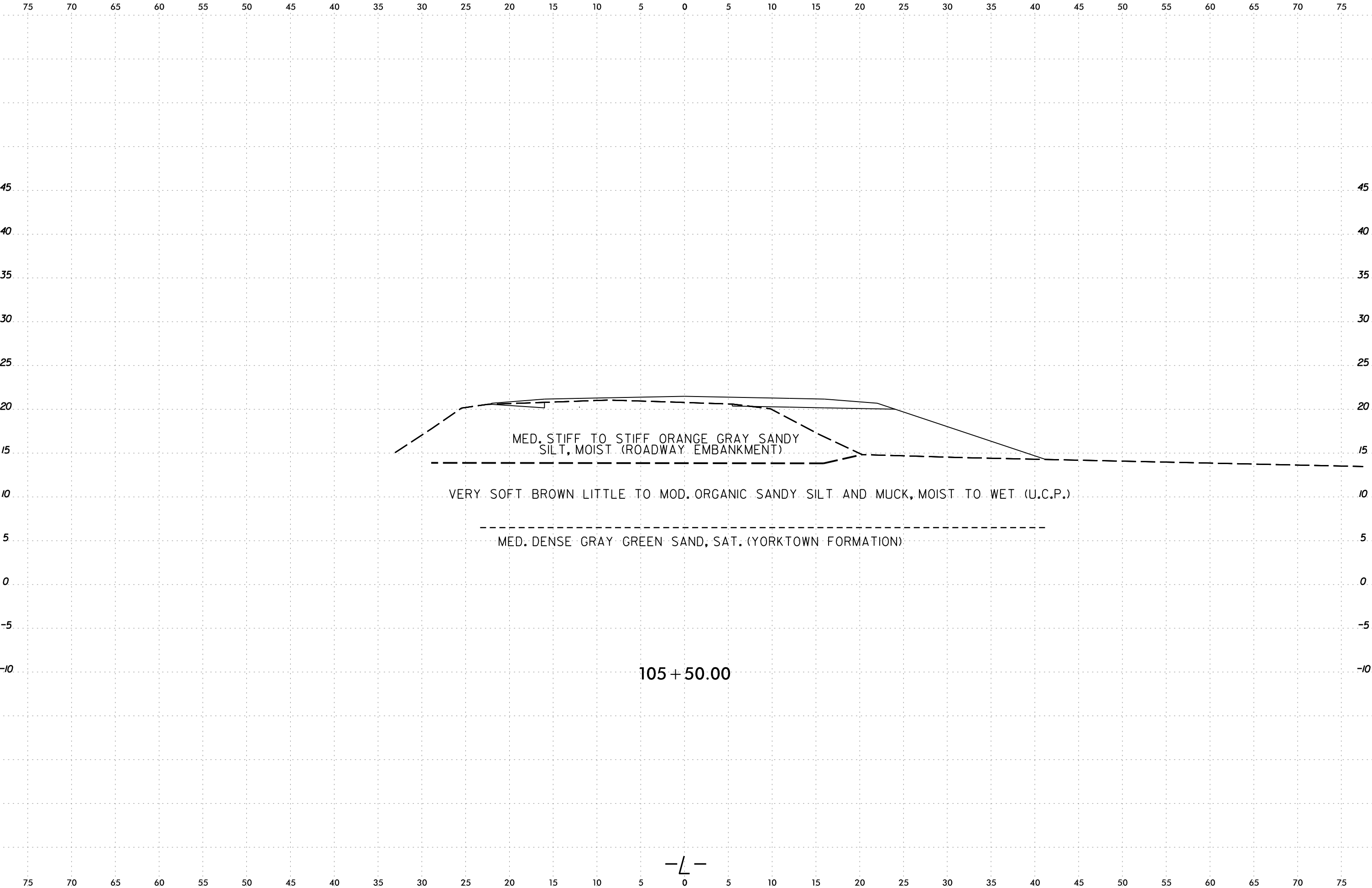


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	206

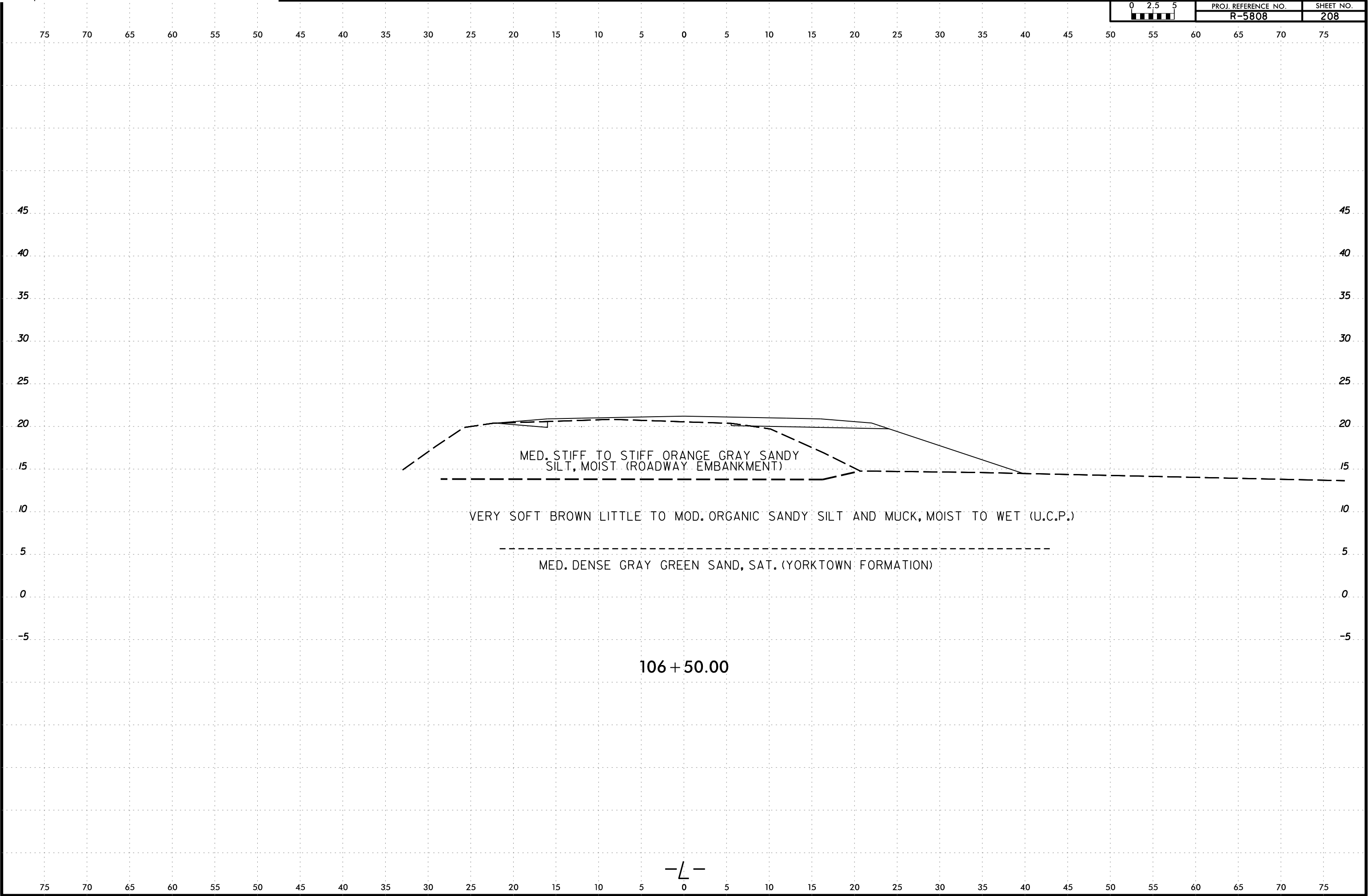




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Lee Stone AT LSTONE-CAD-PC

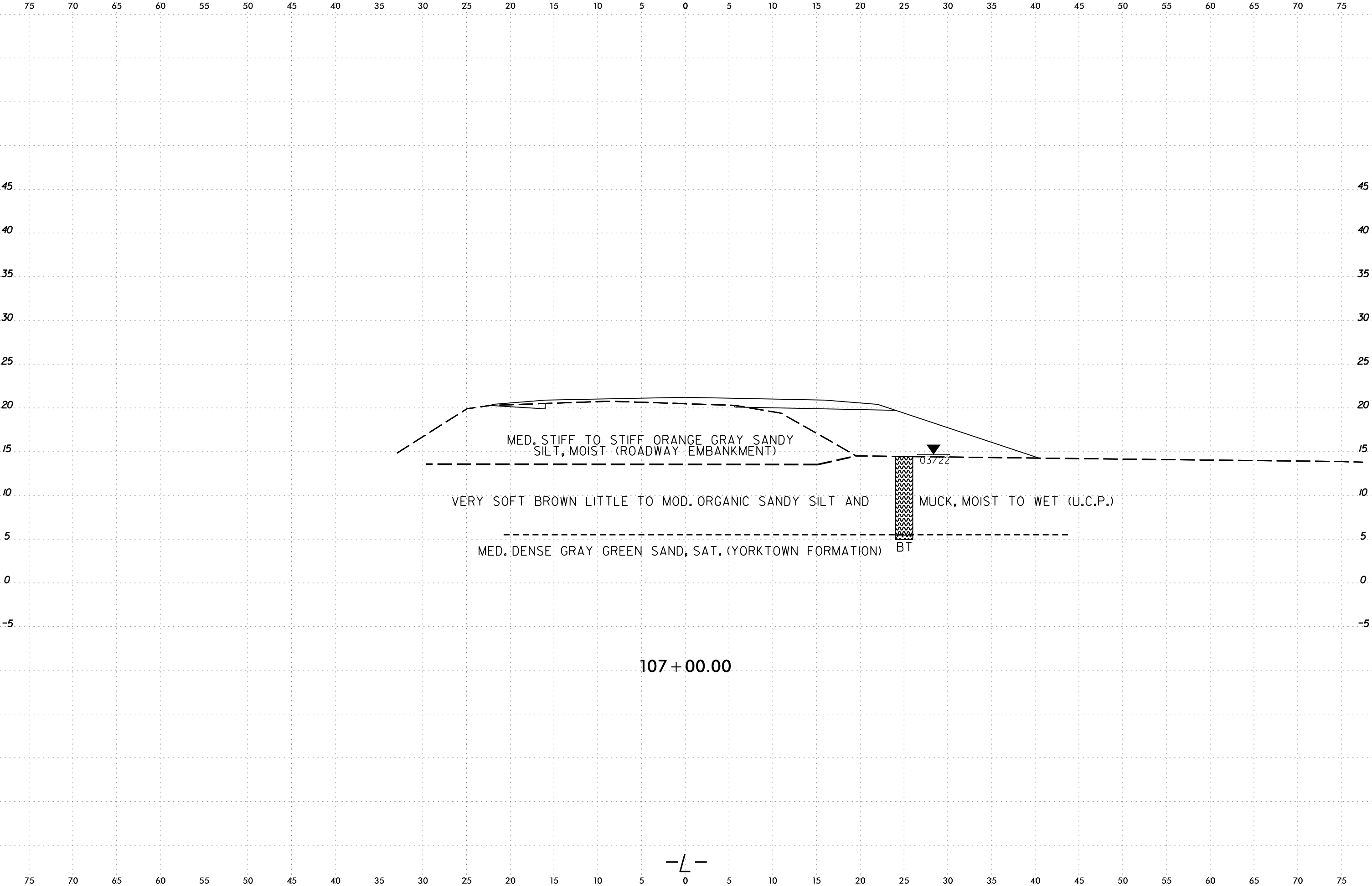
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	R-5808	208



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	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	209



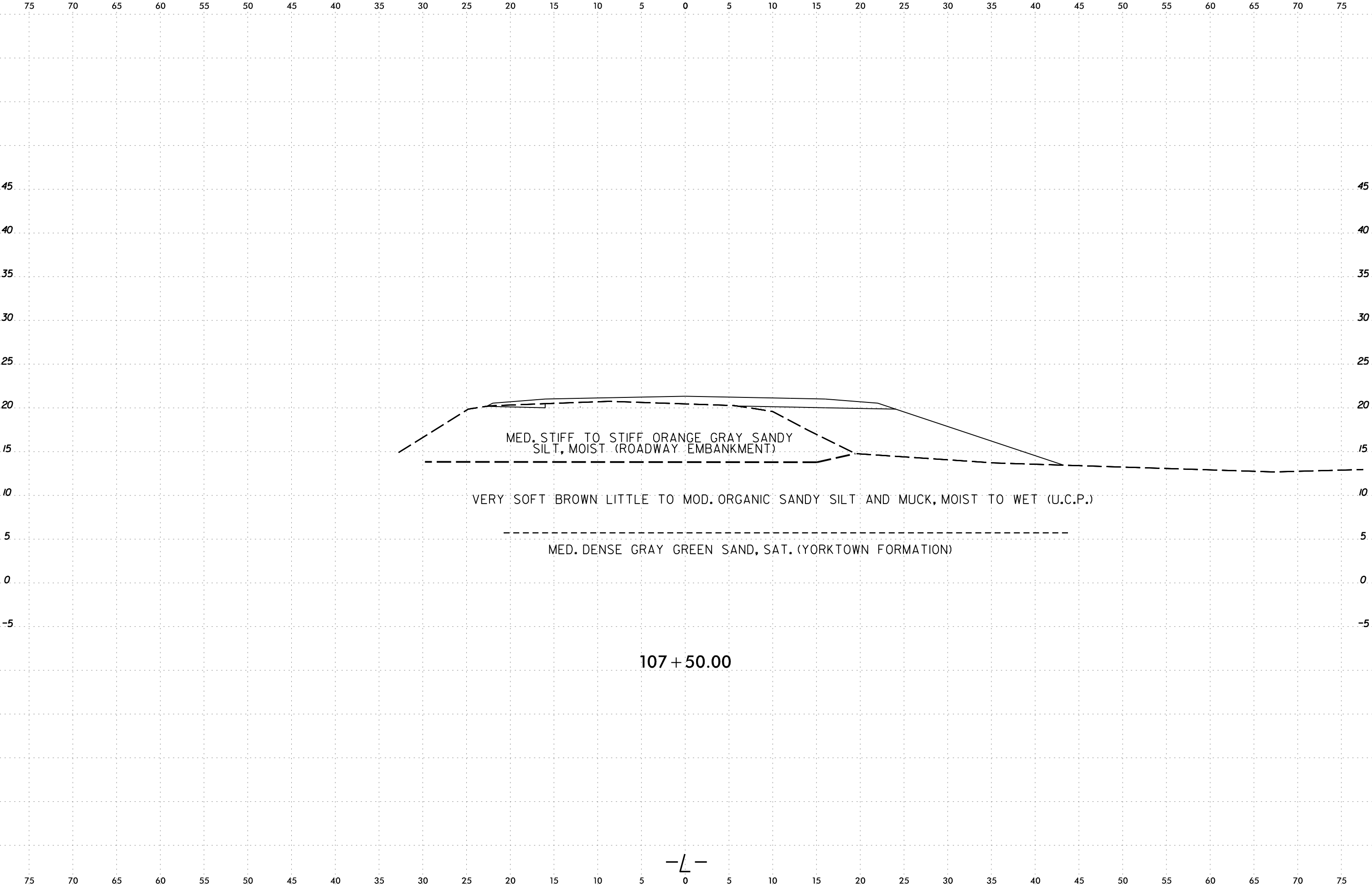
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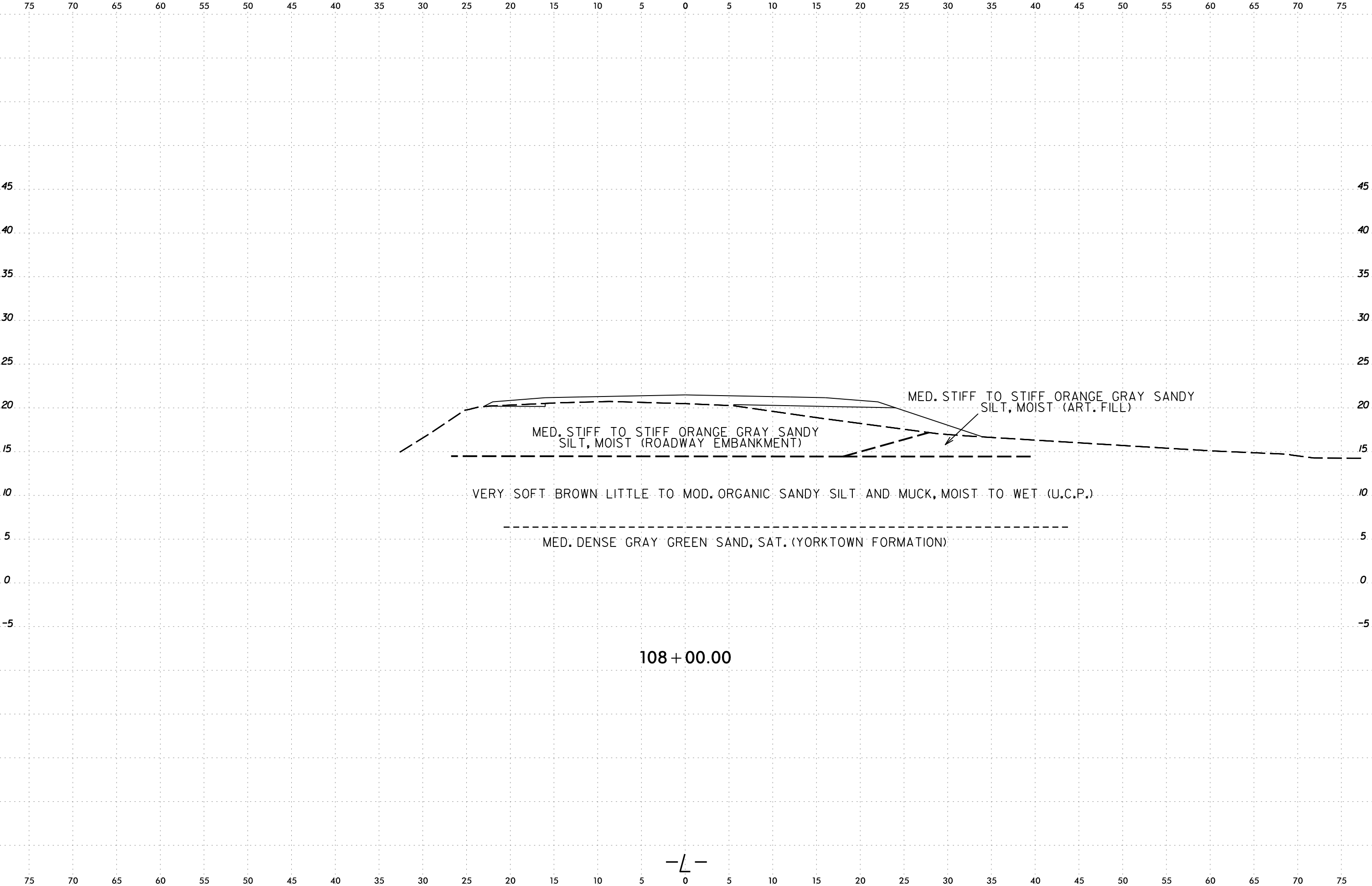
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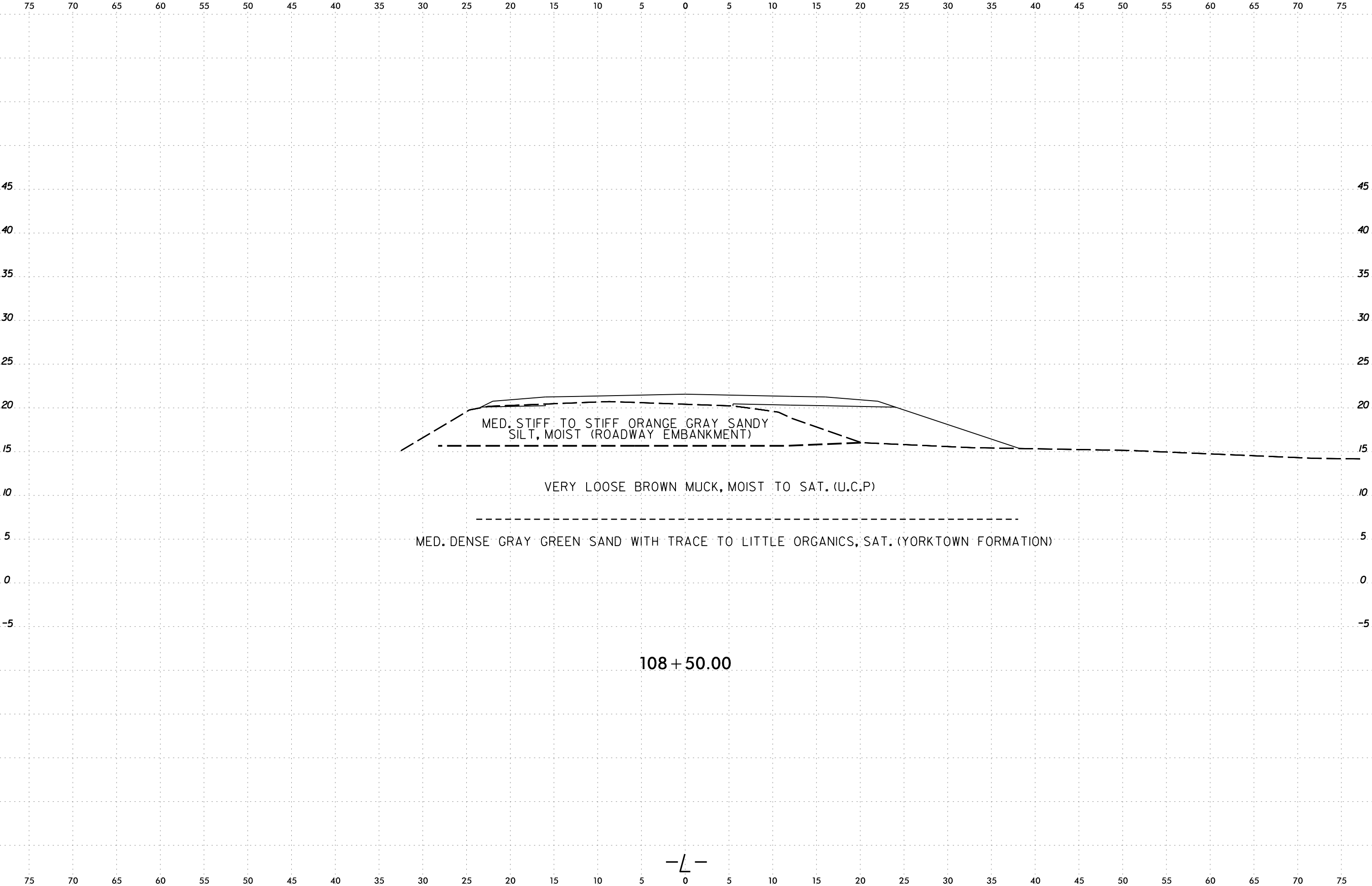
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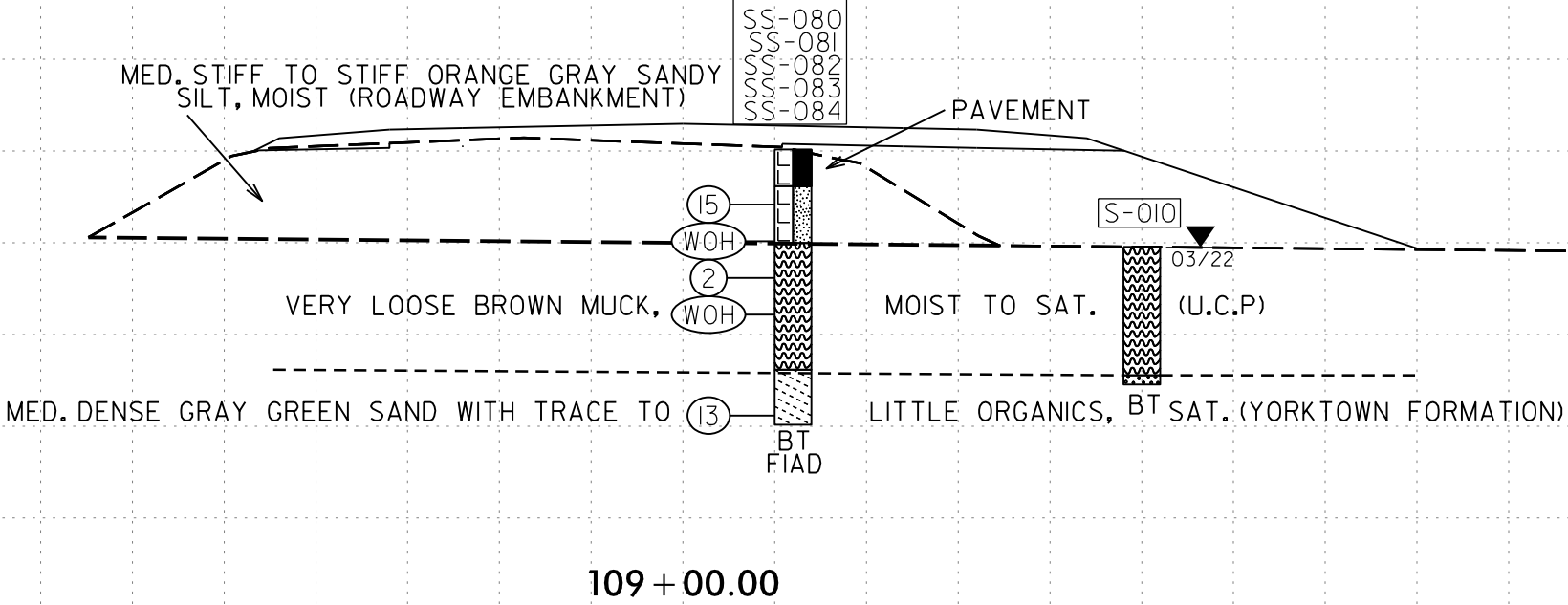
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	212



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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

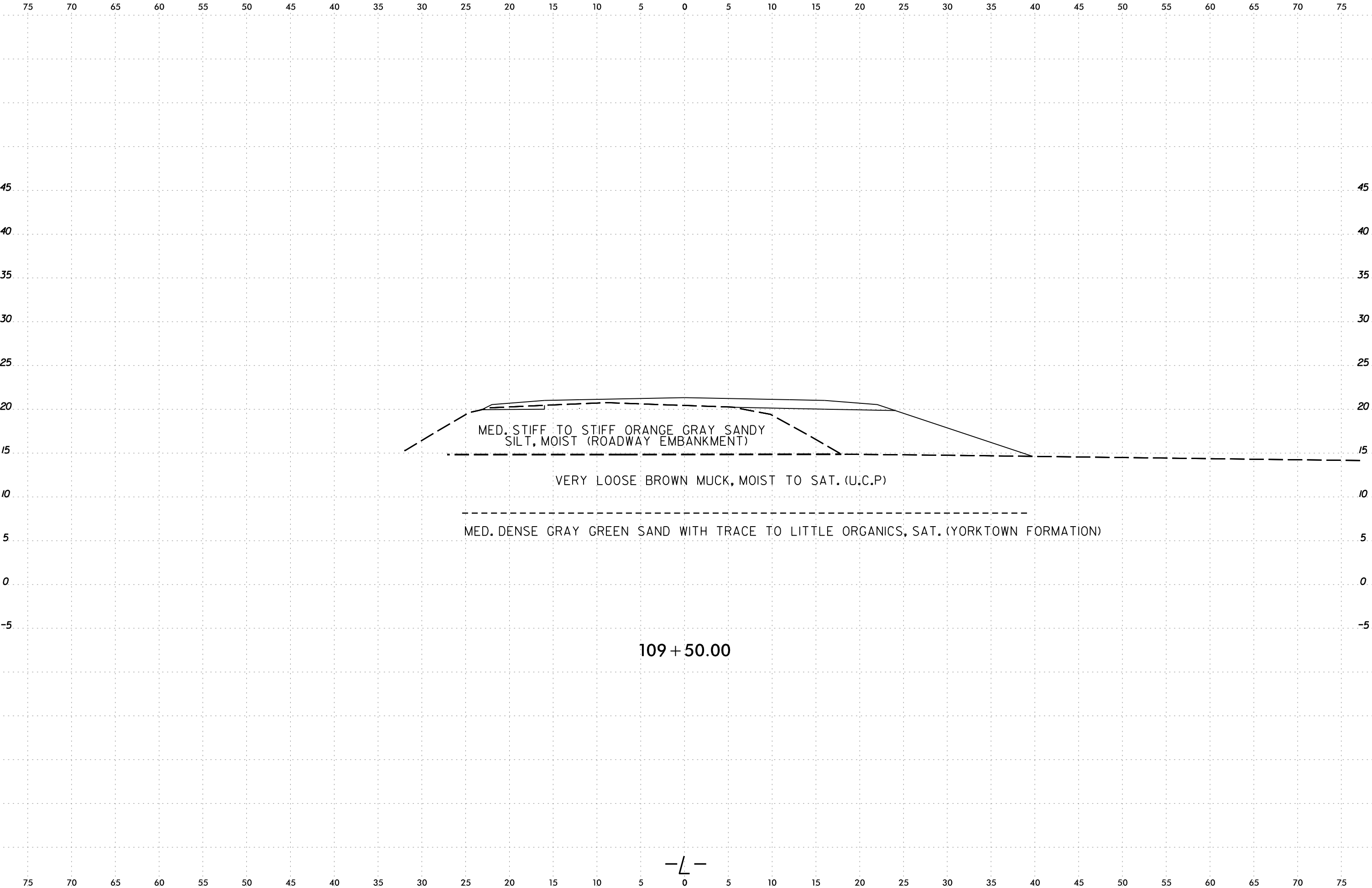


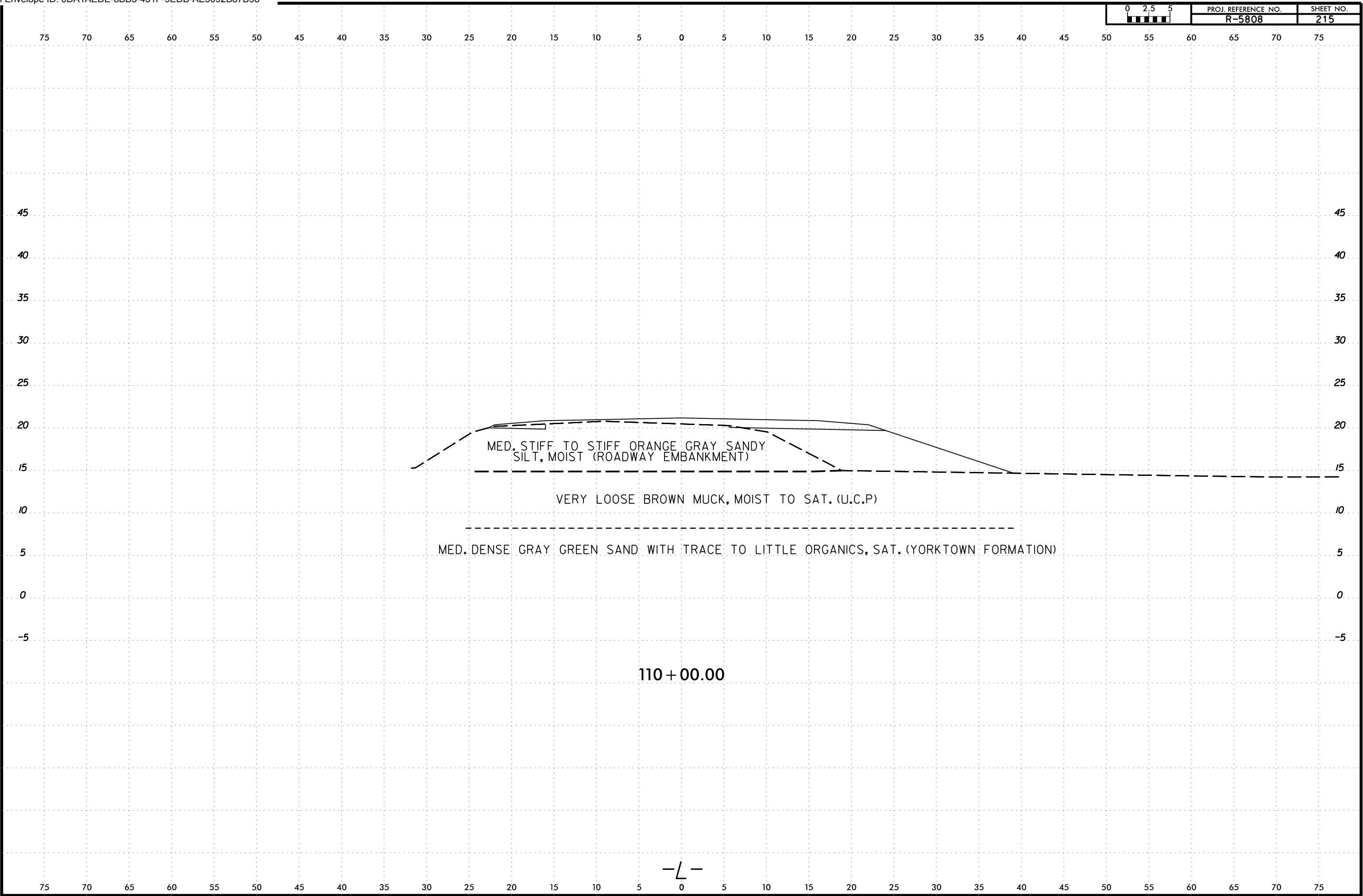
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	214

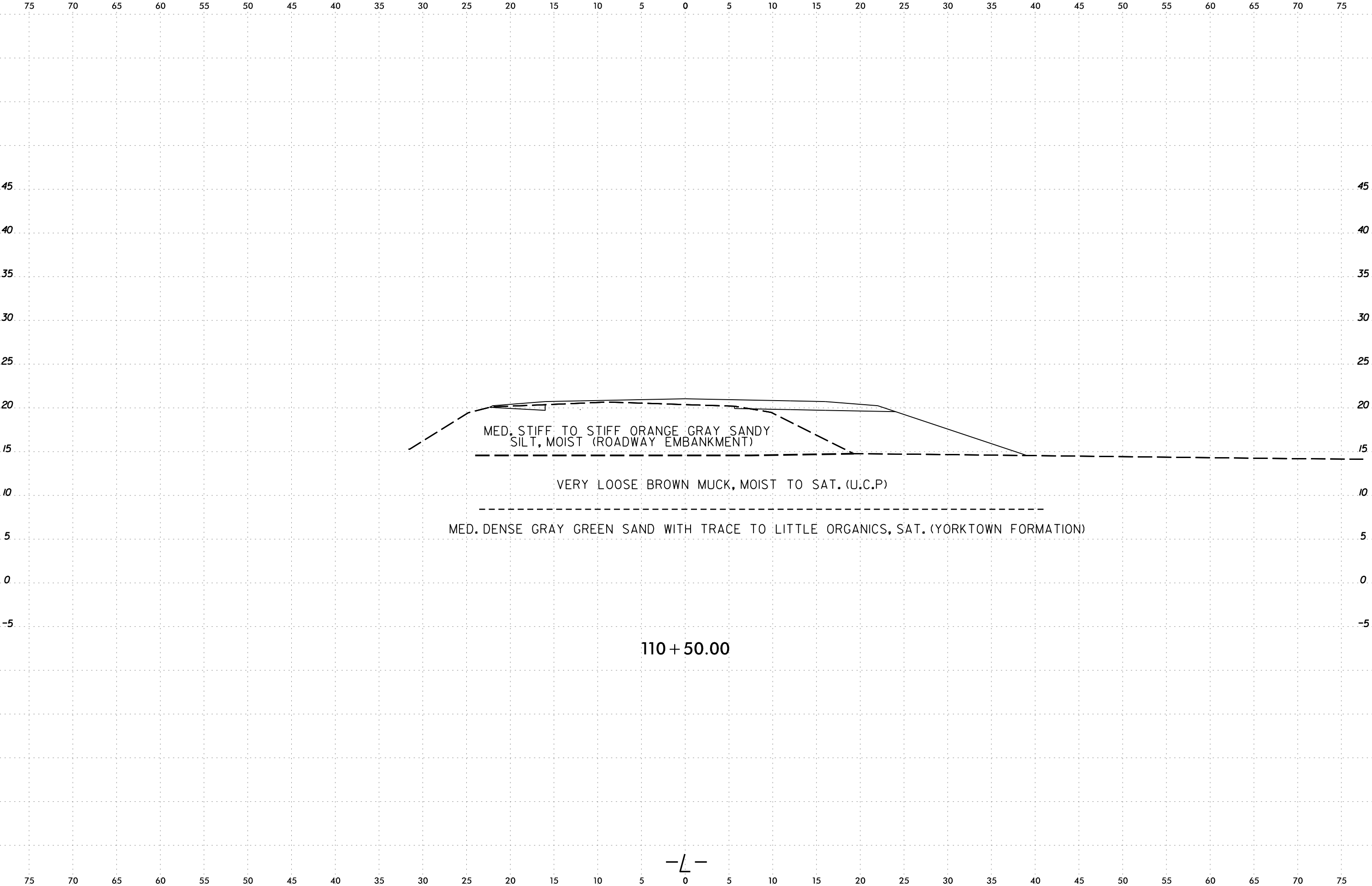




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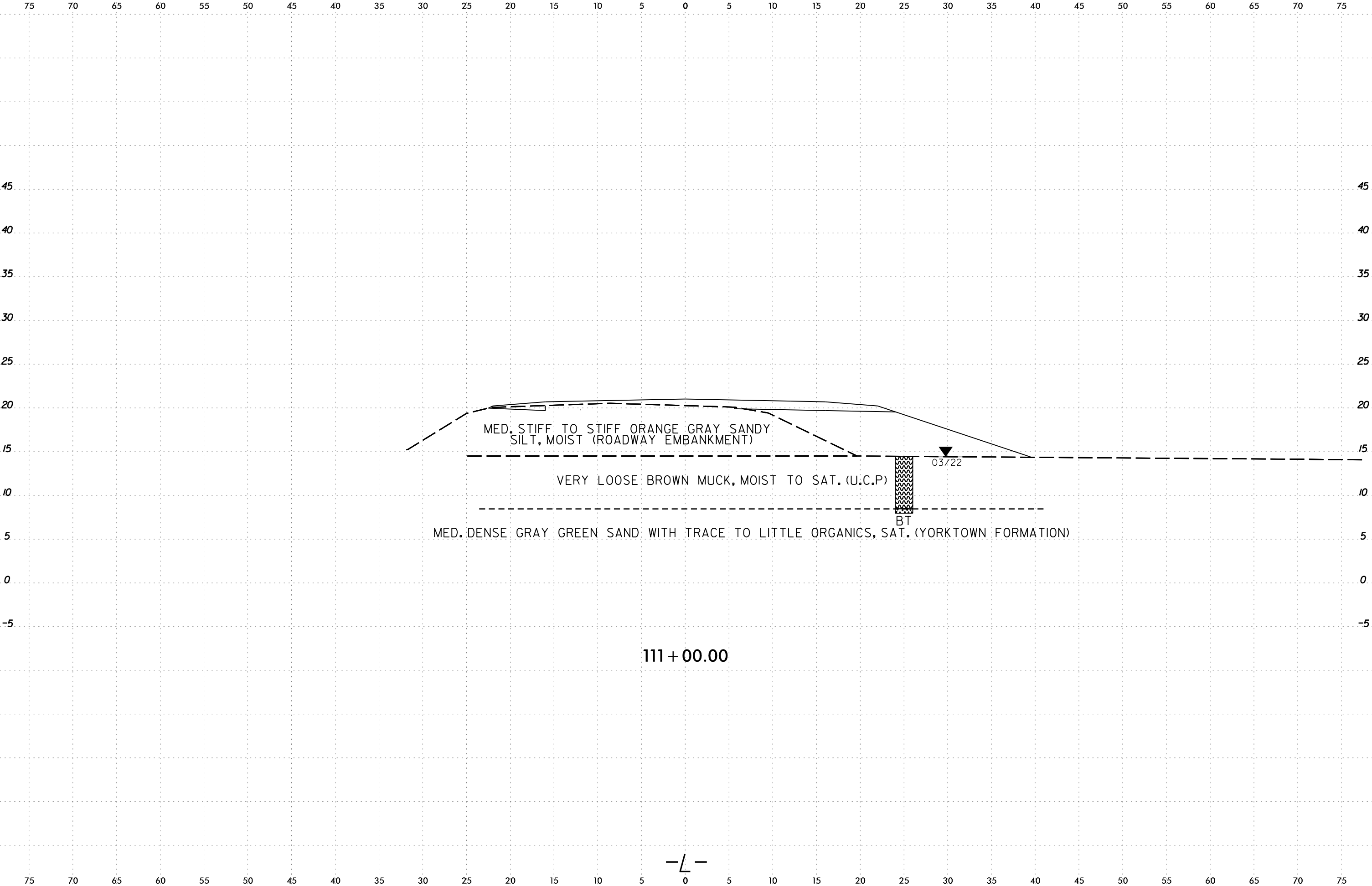


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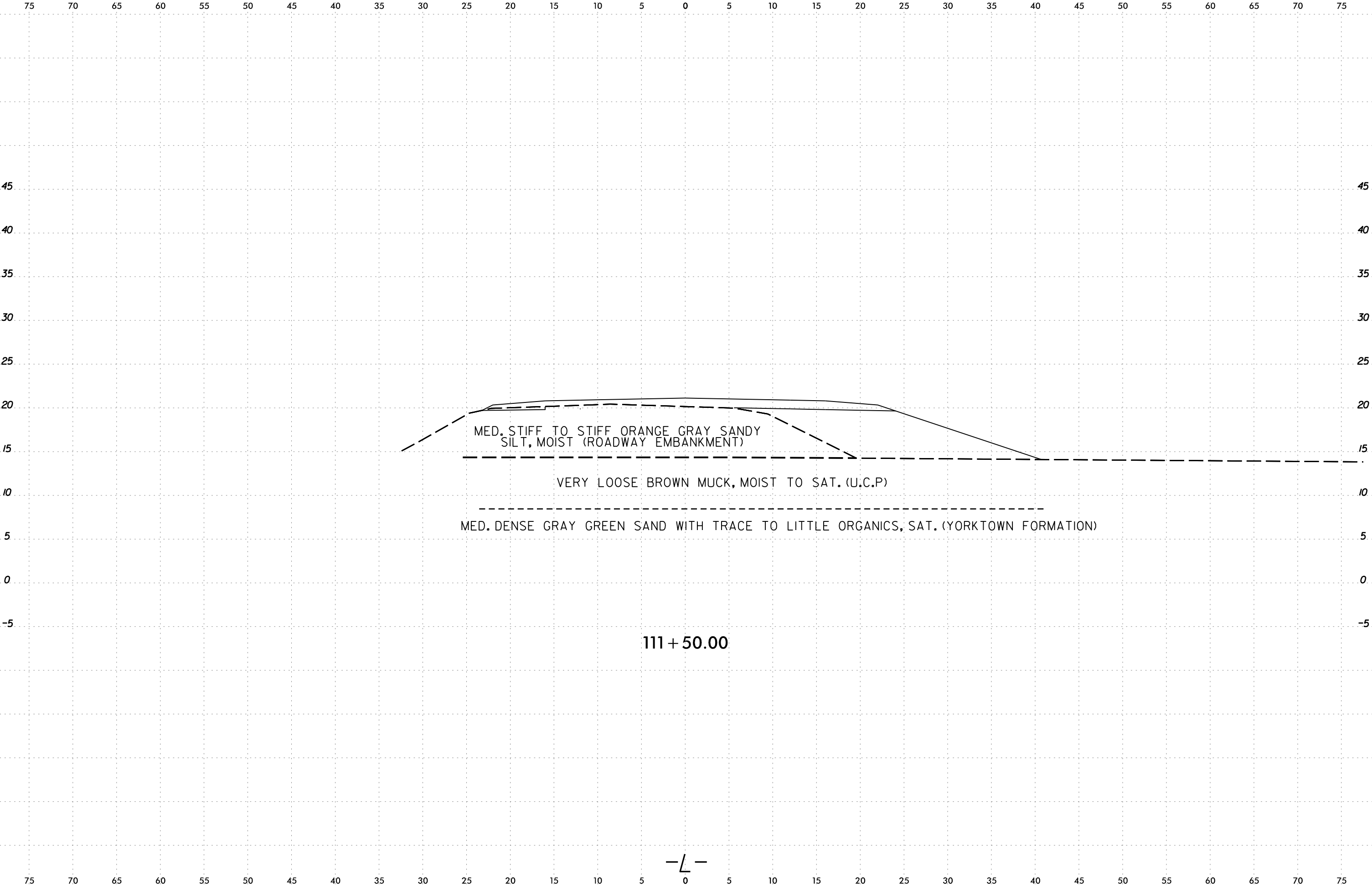
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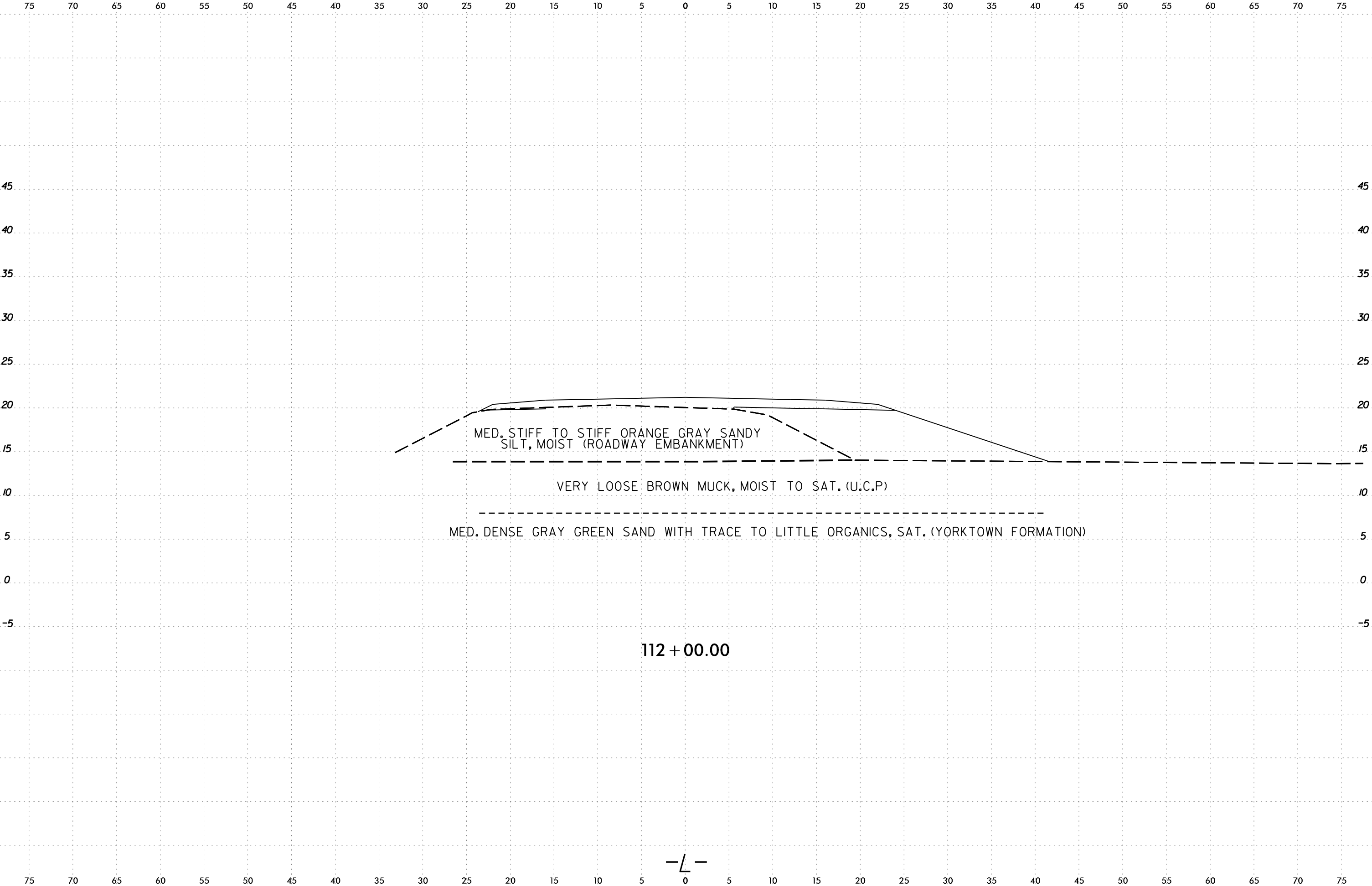
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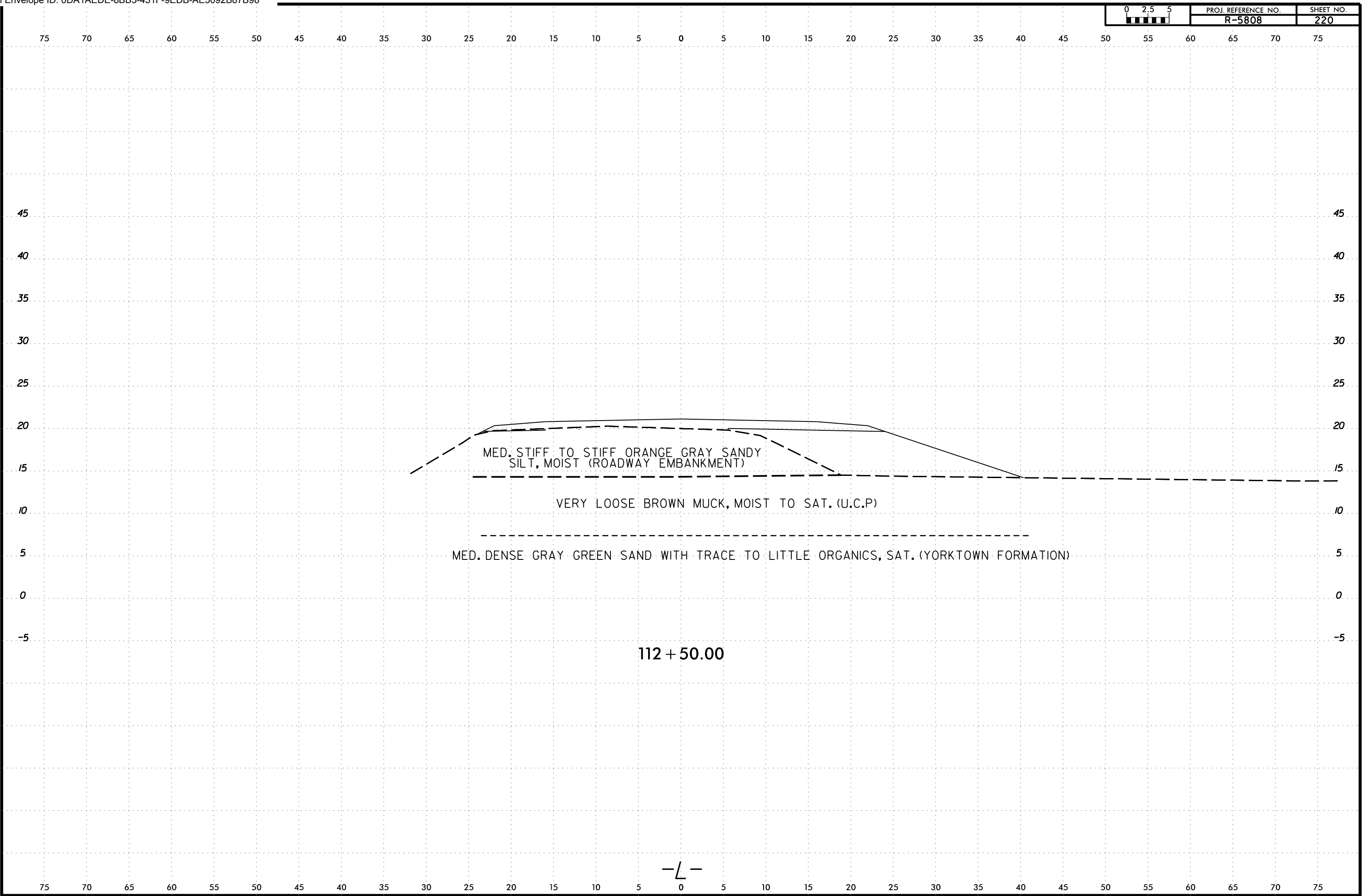
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Lee Stone AT LSTONE-CAD-PC

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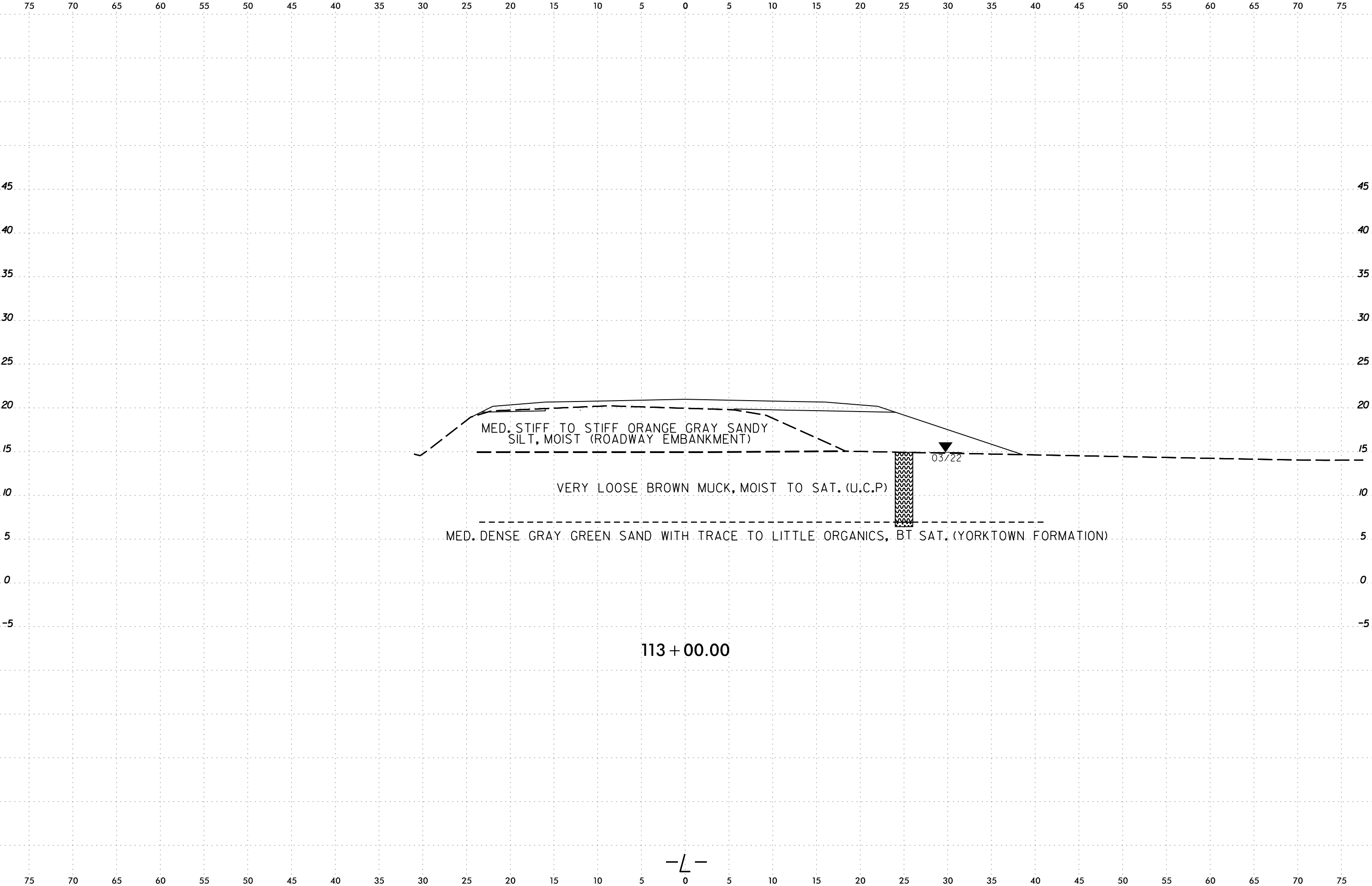
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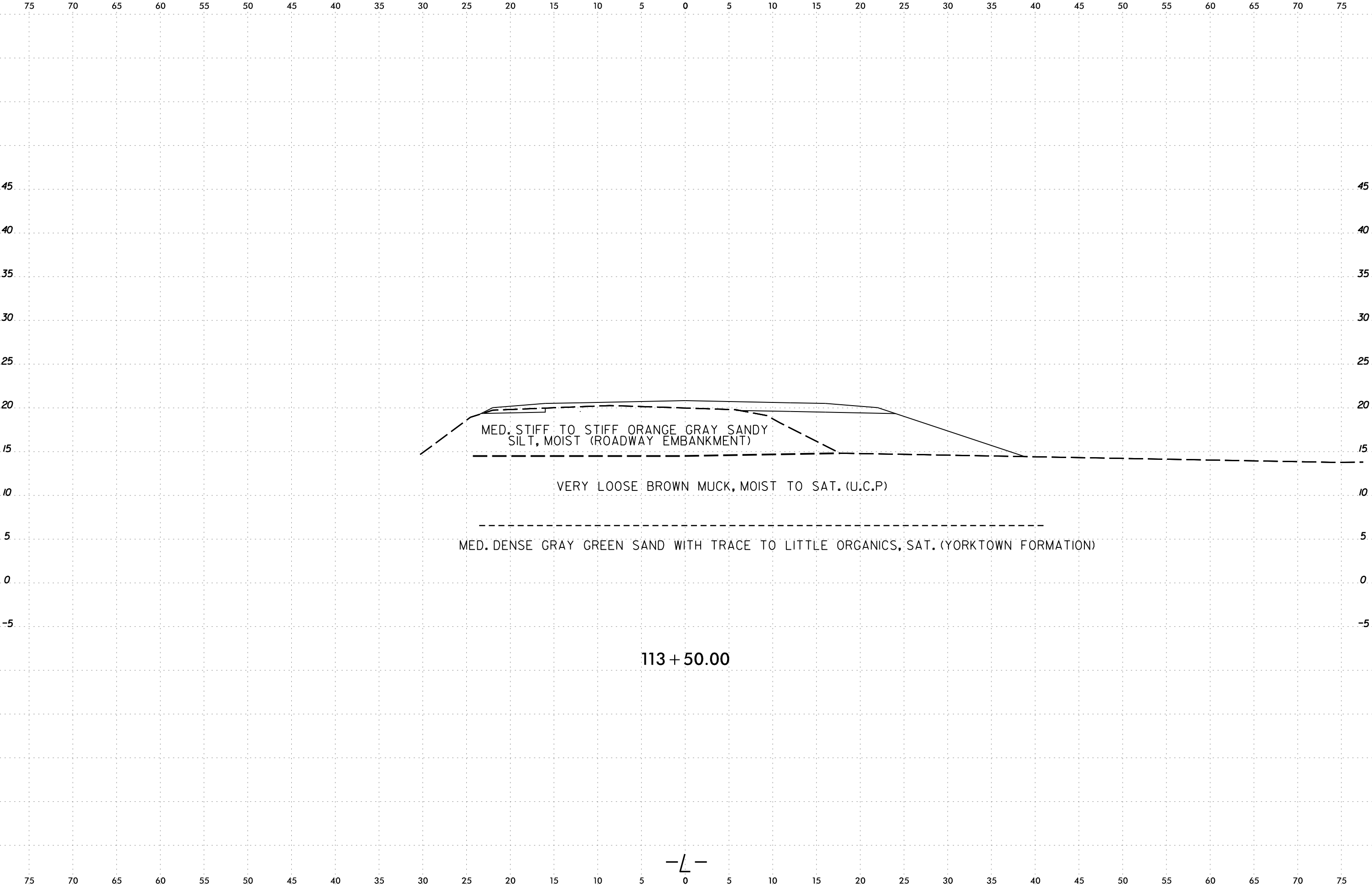
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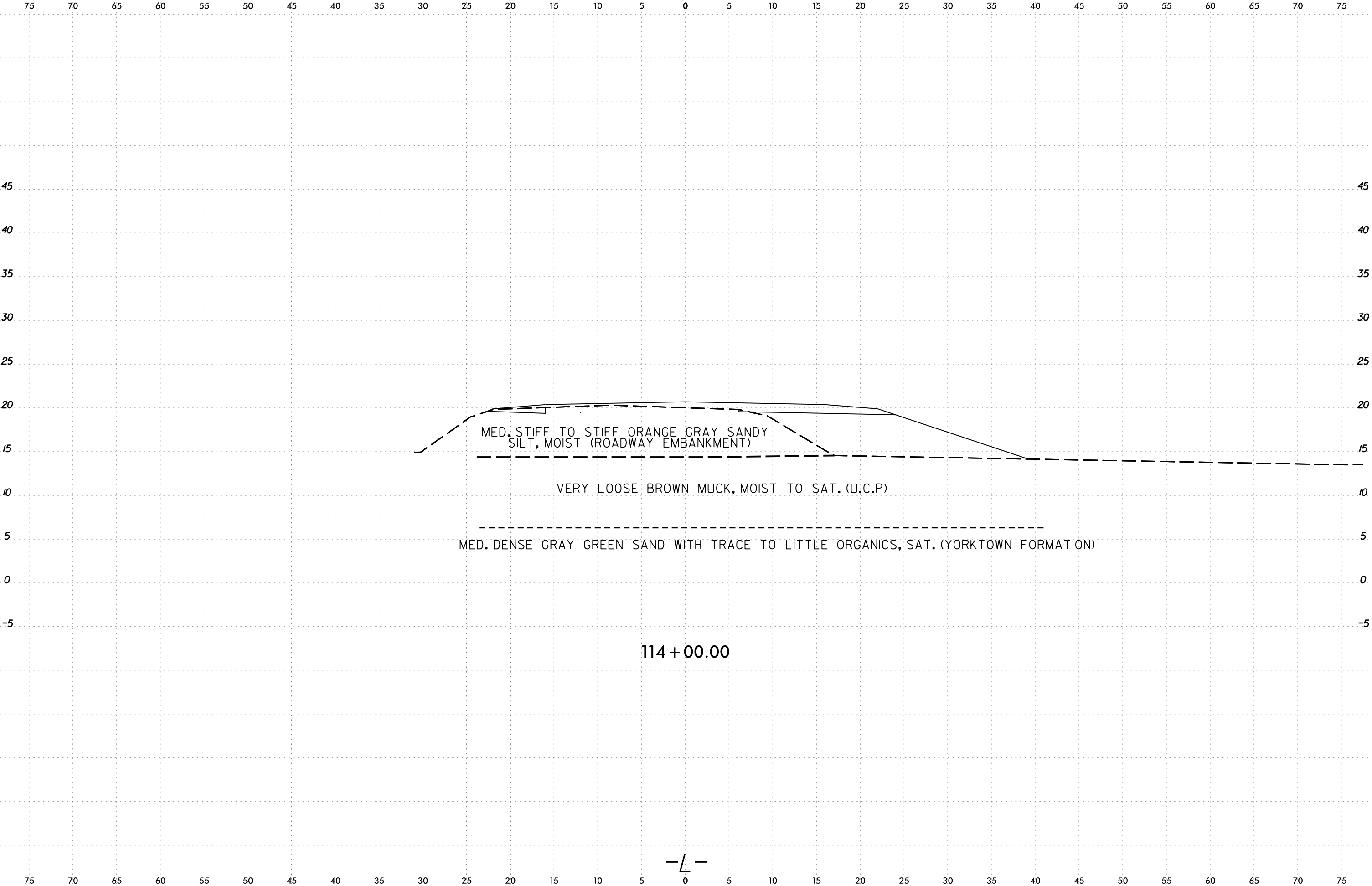
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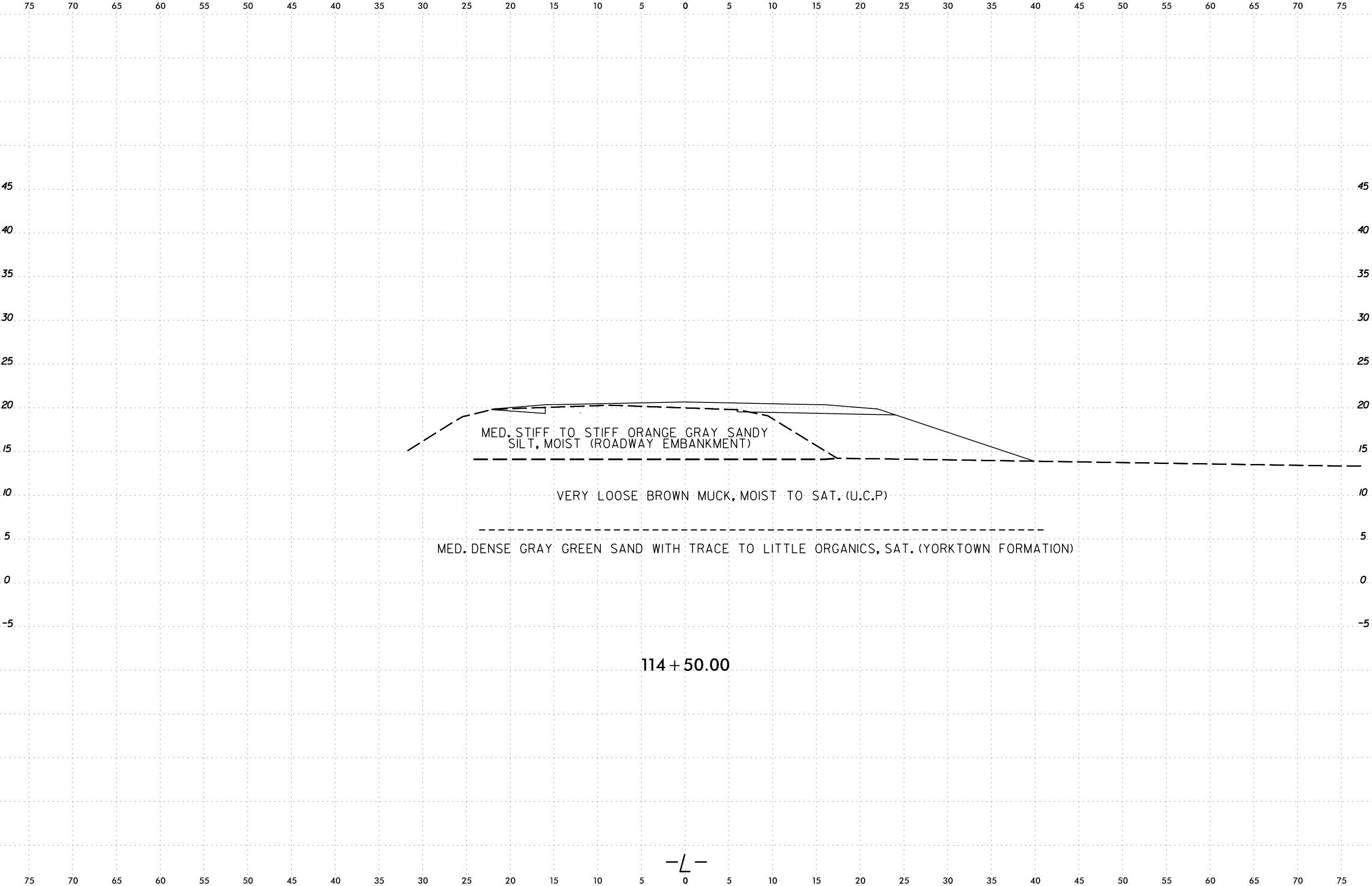
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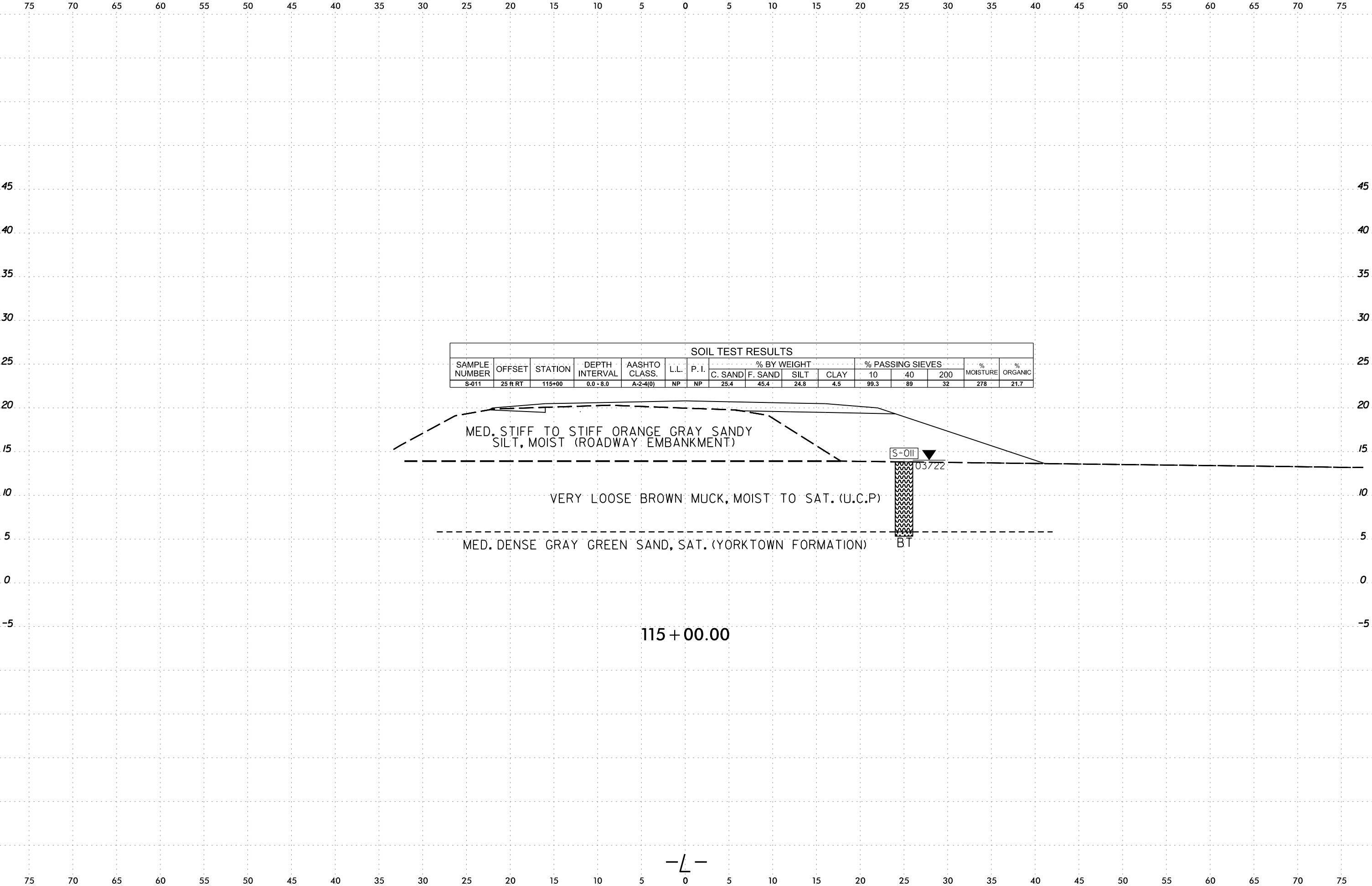
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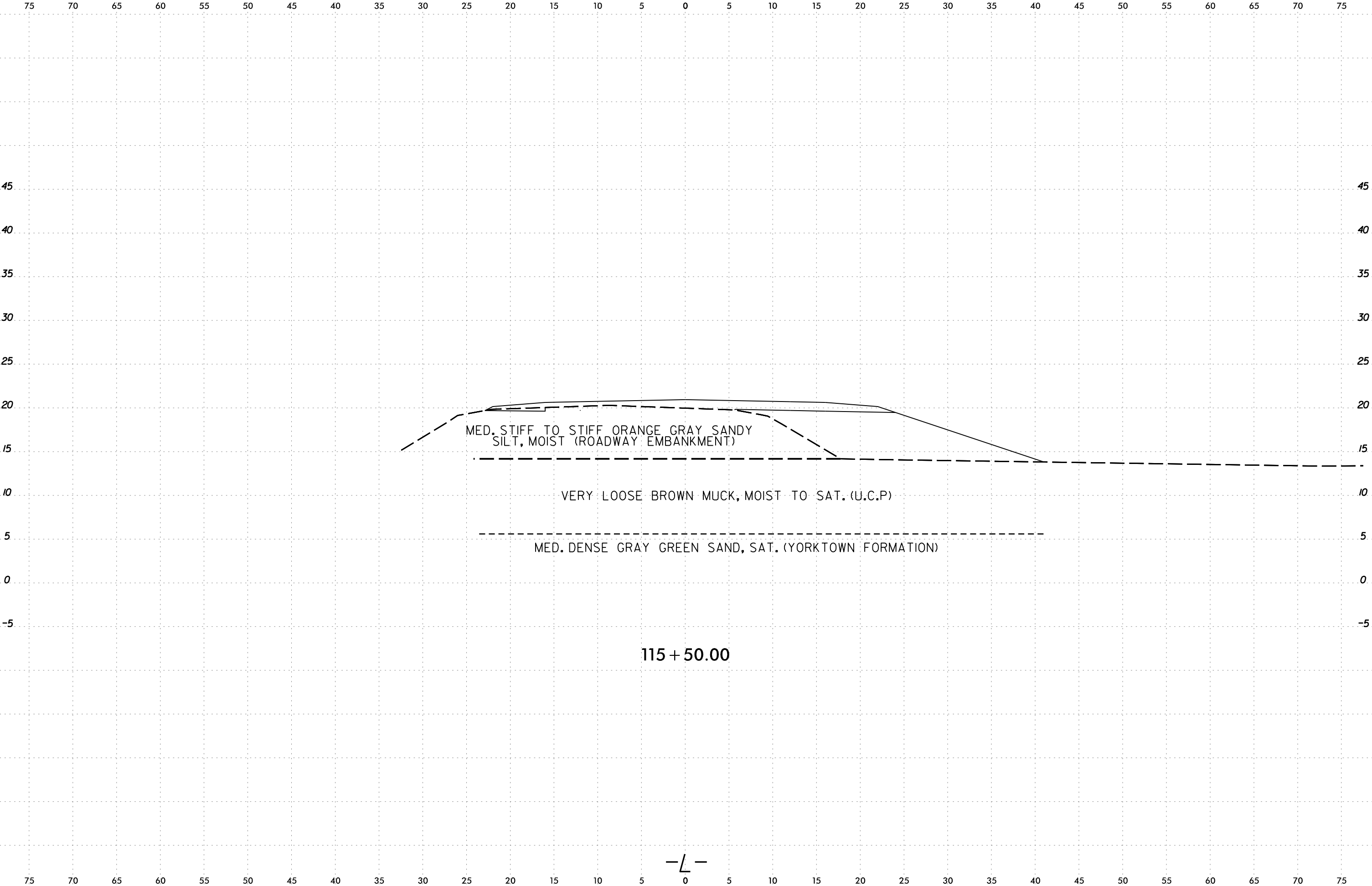
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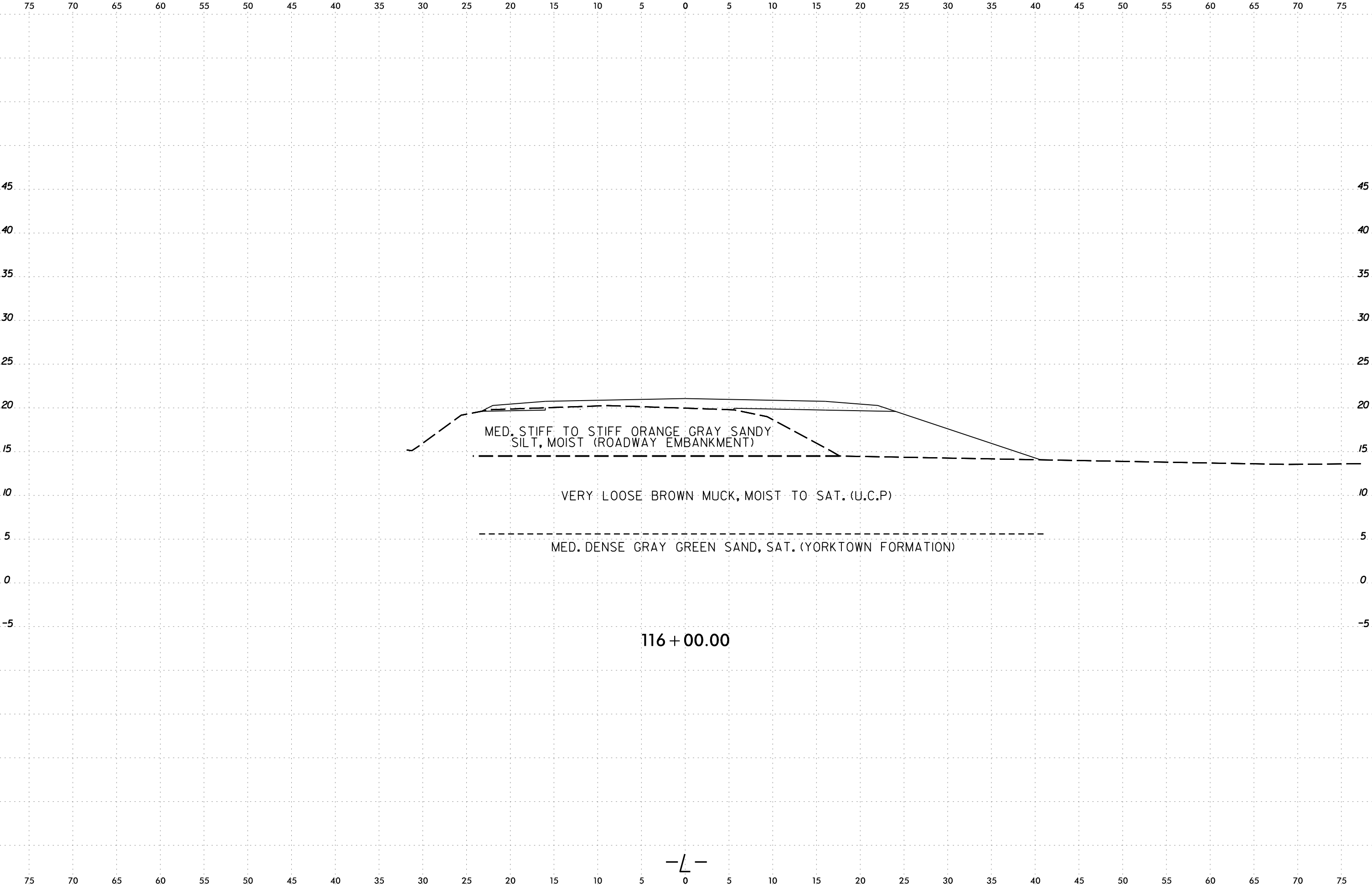
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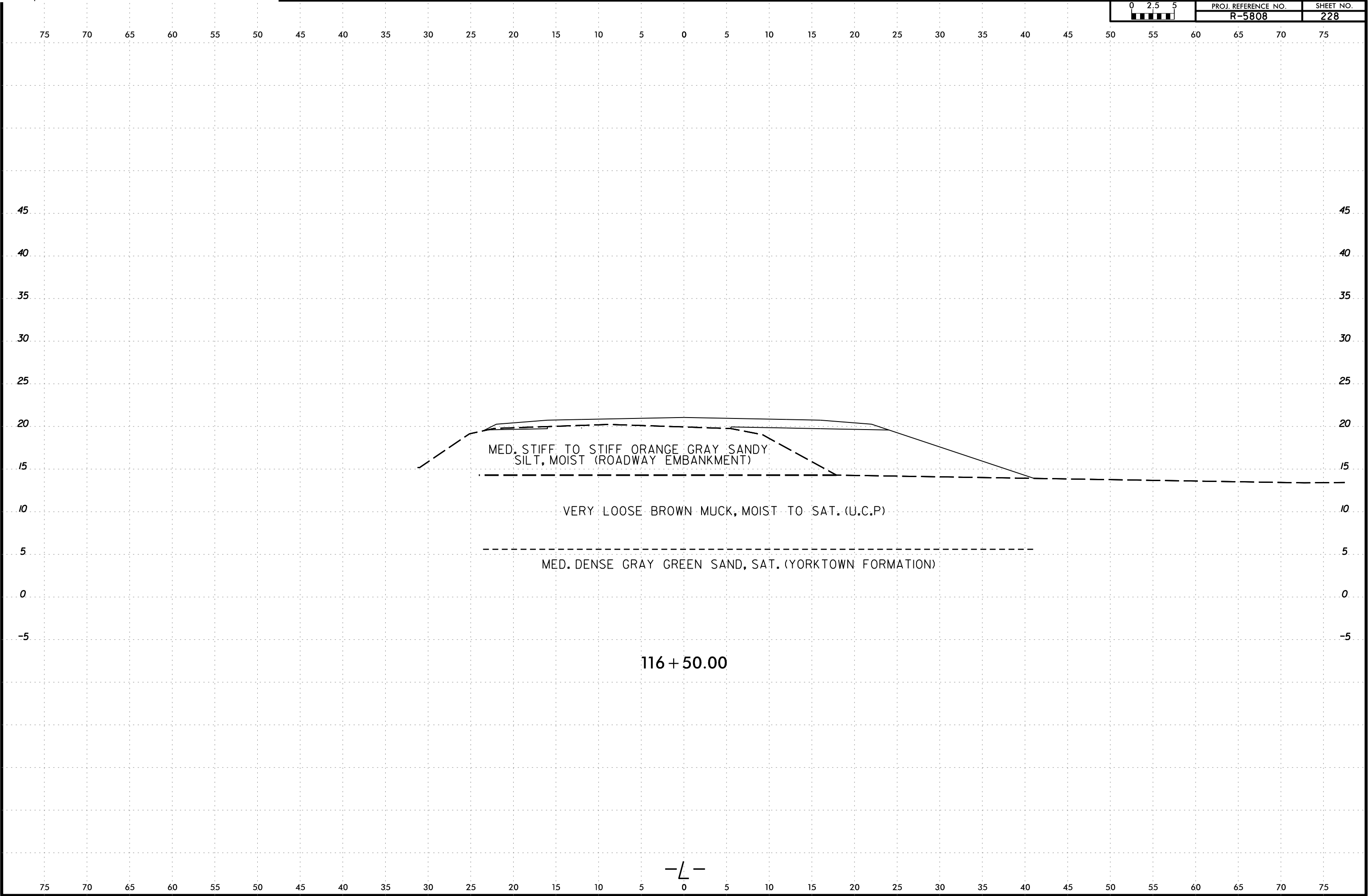
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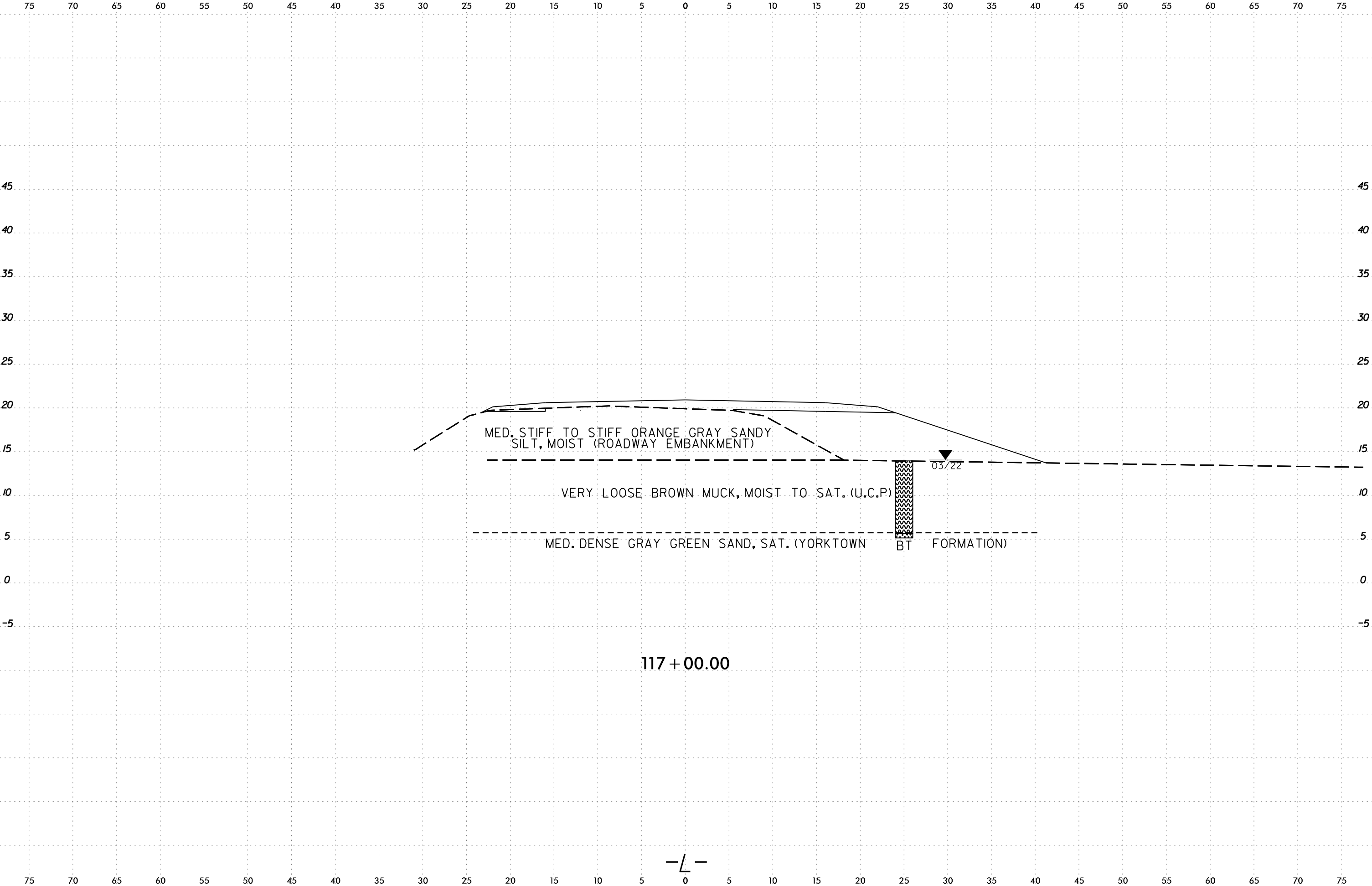
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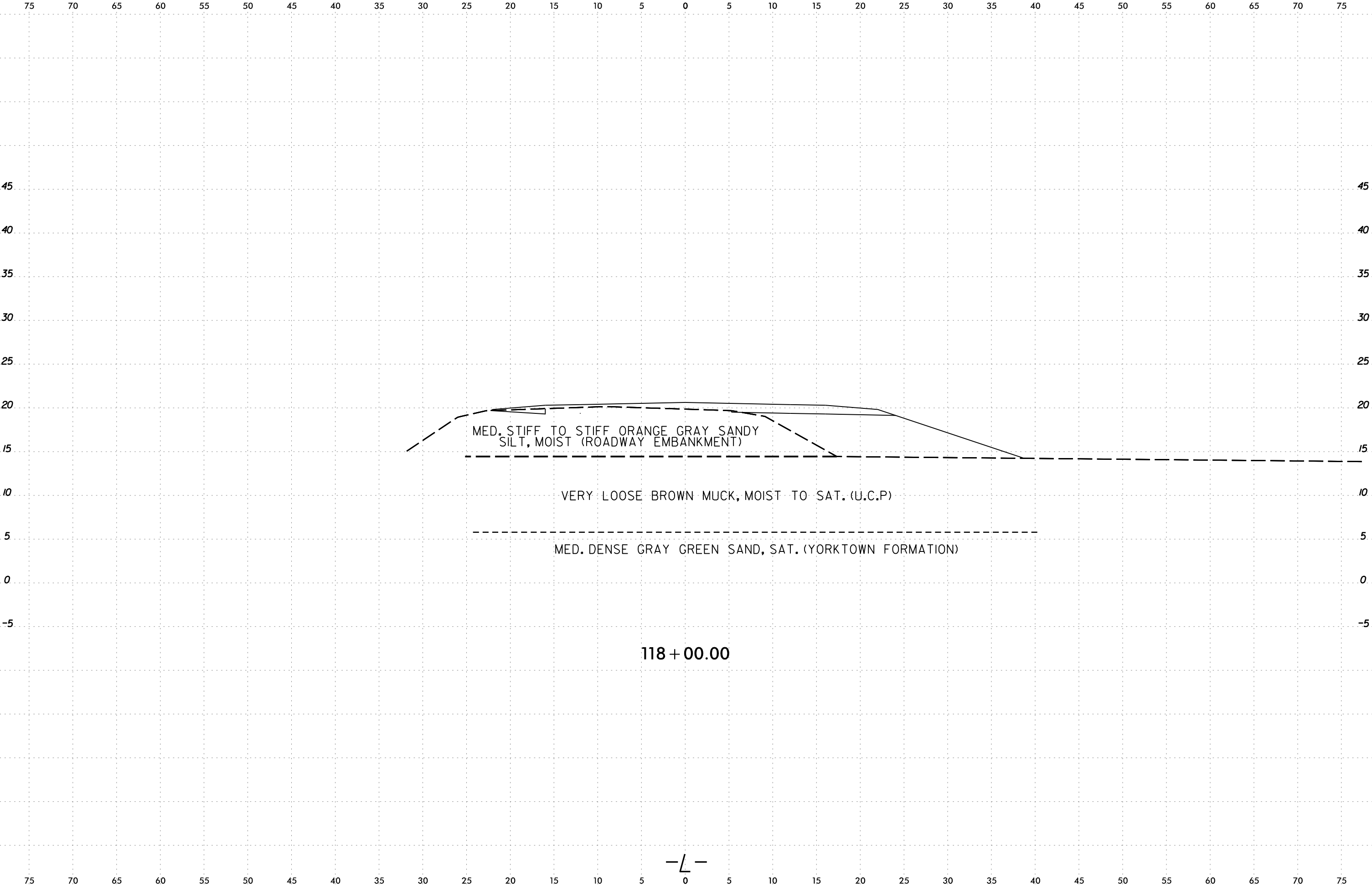


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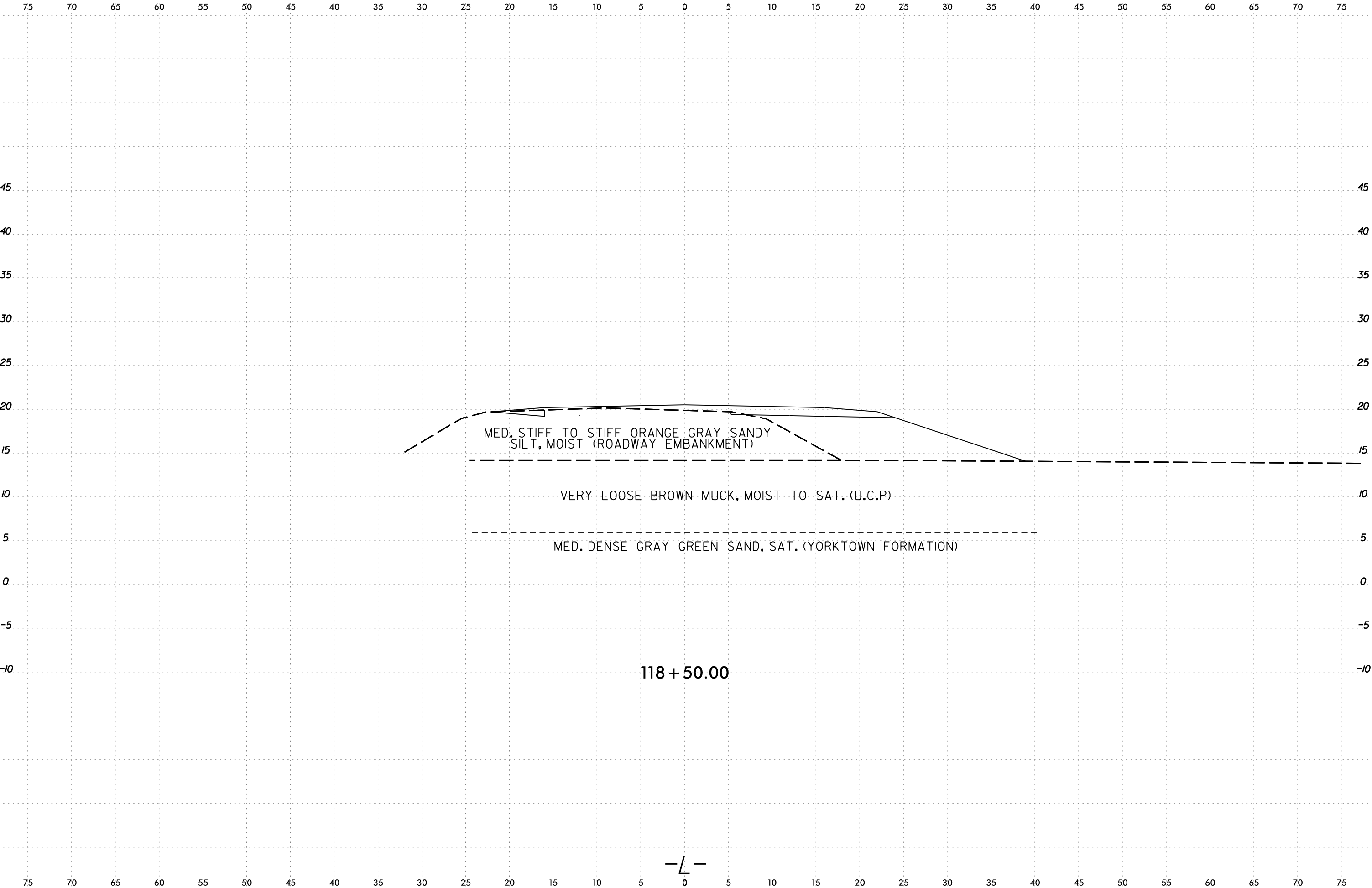
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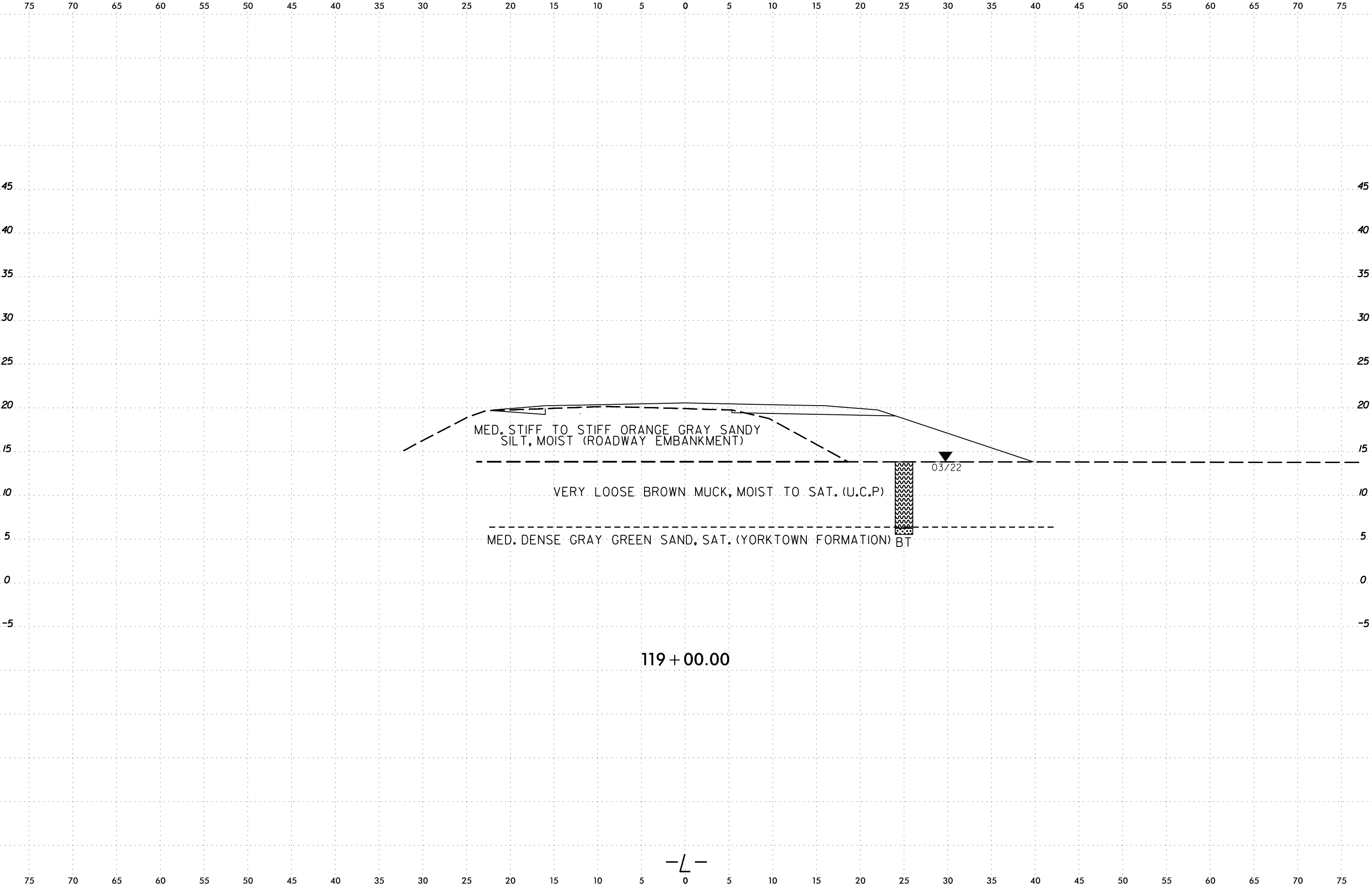
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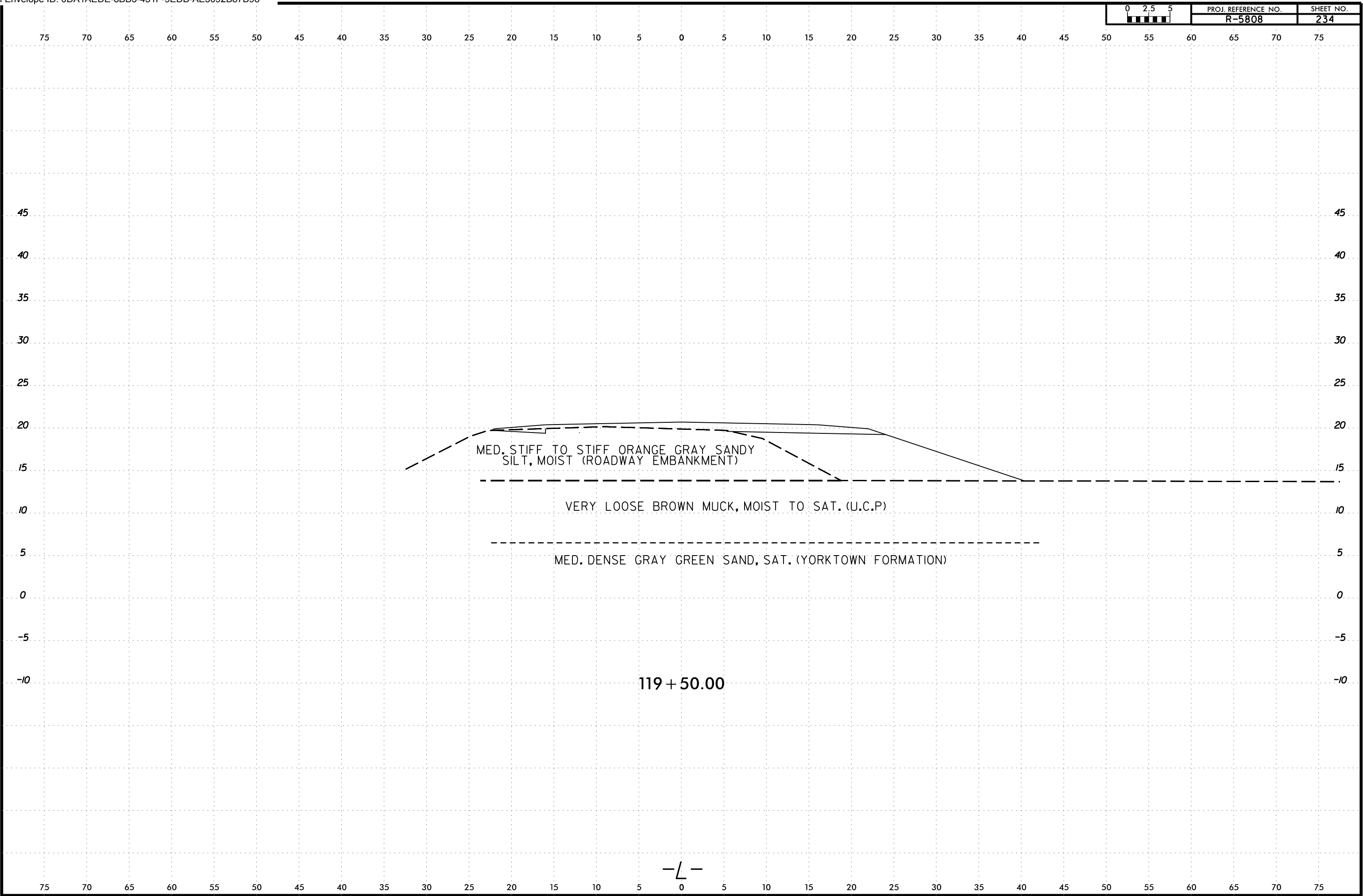


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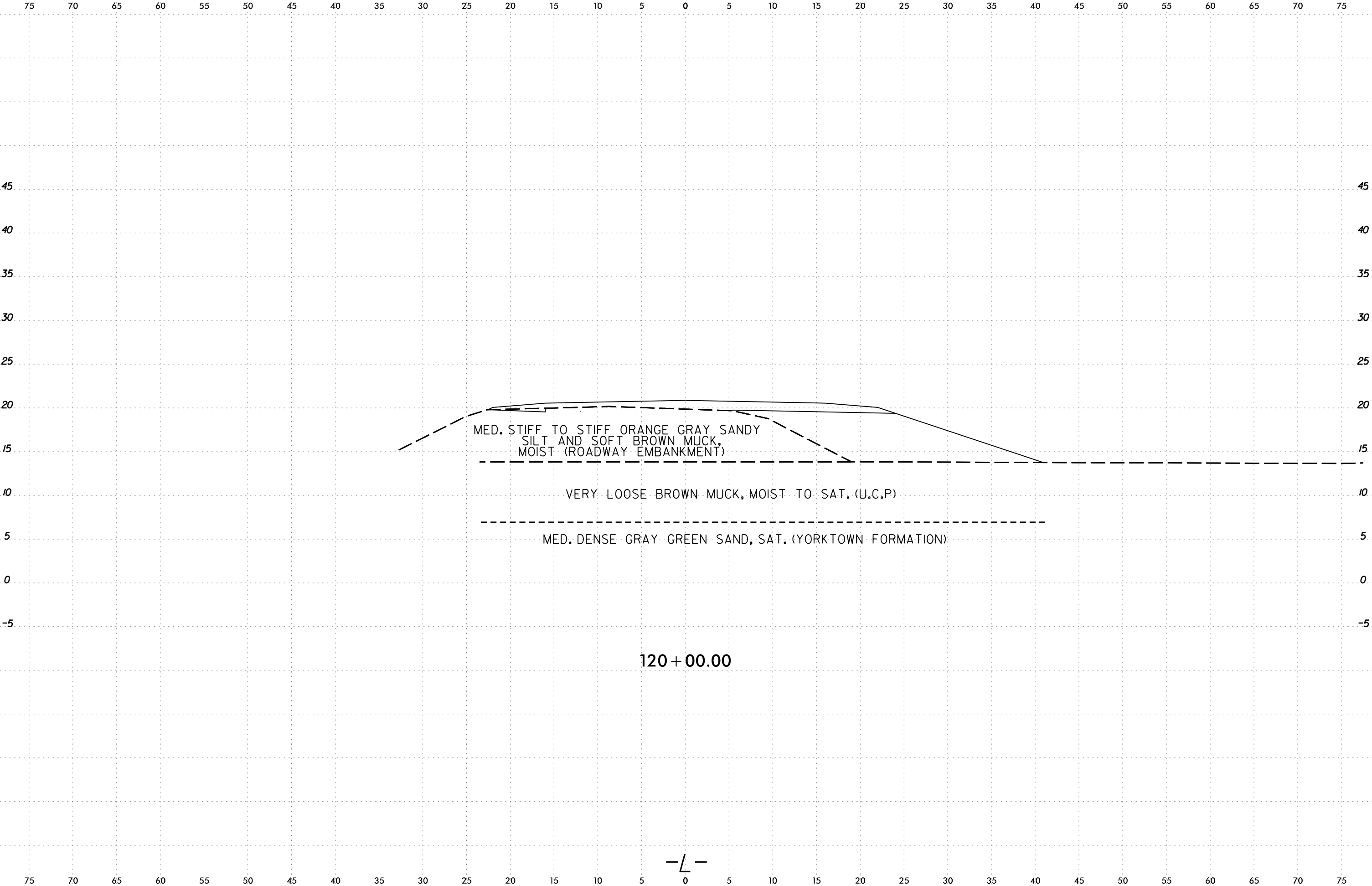




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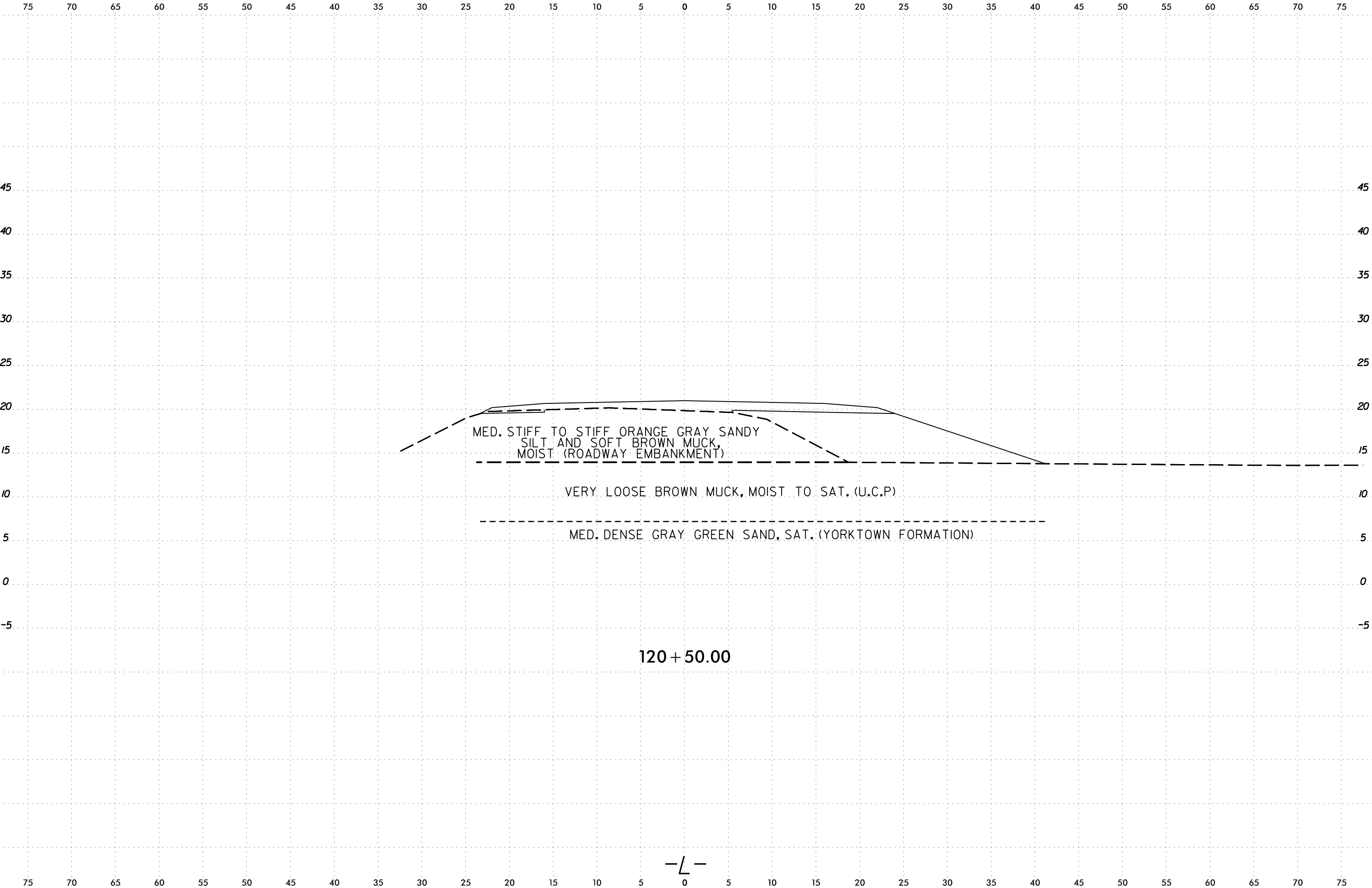
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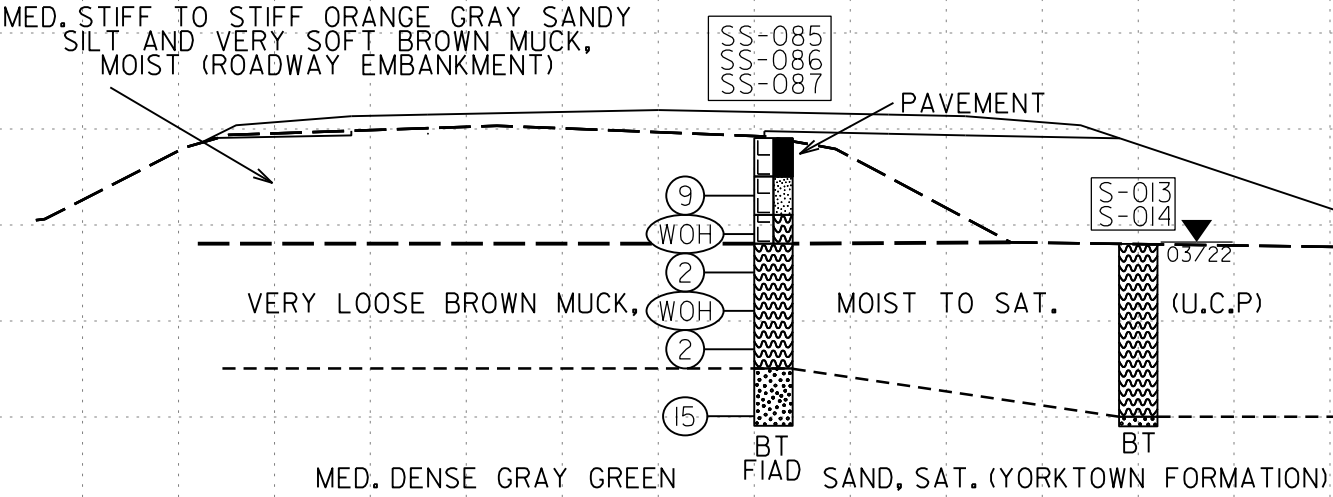
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	236



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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	-	-

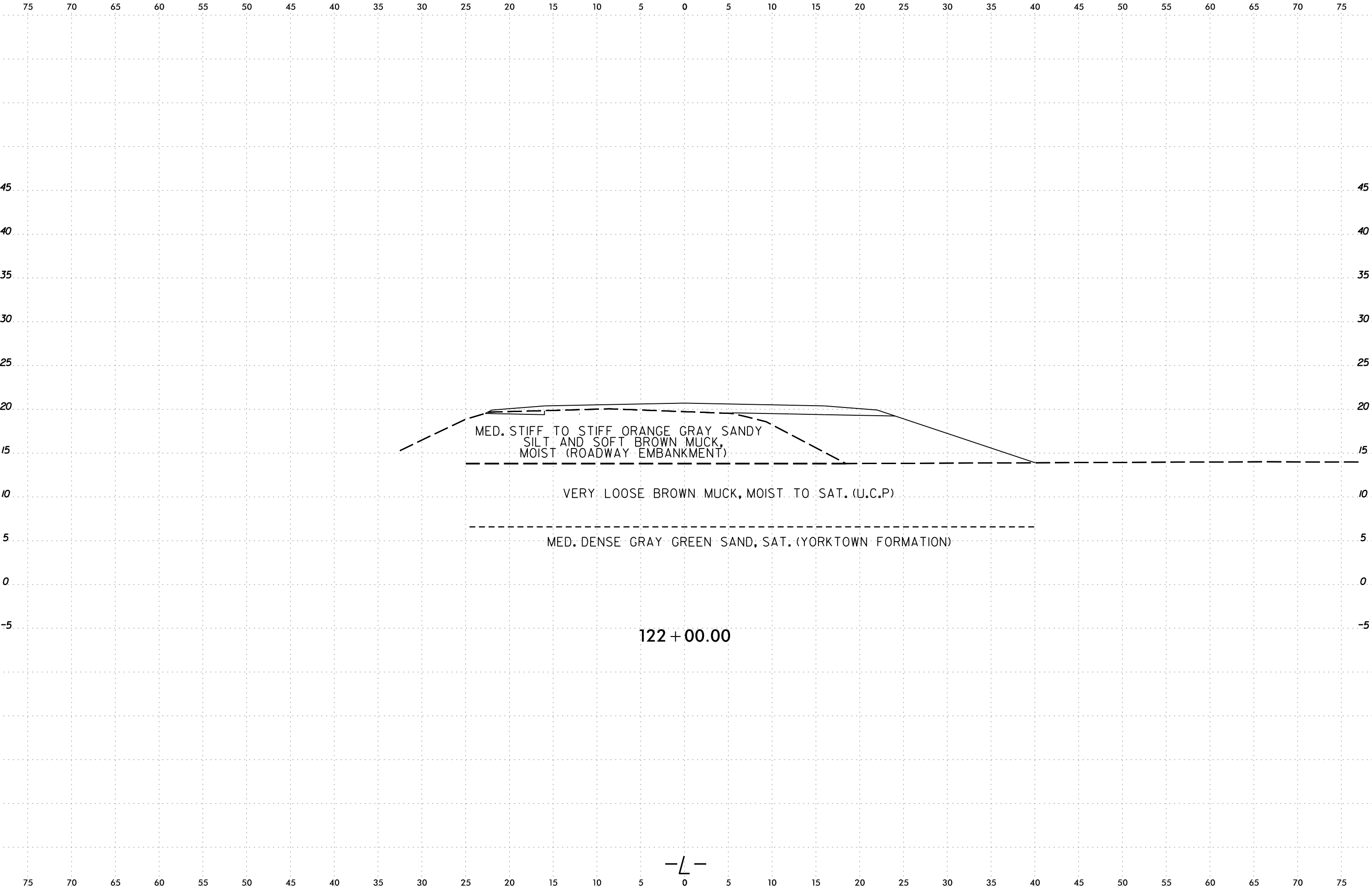


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Lee Stone AT LSTONE-CAD-PC

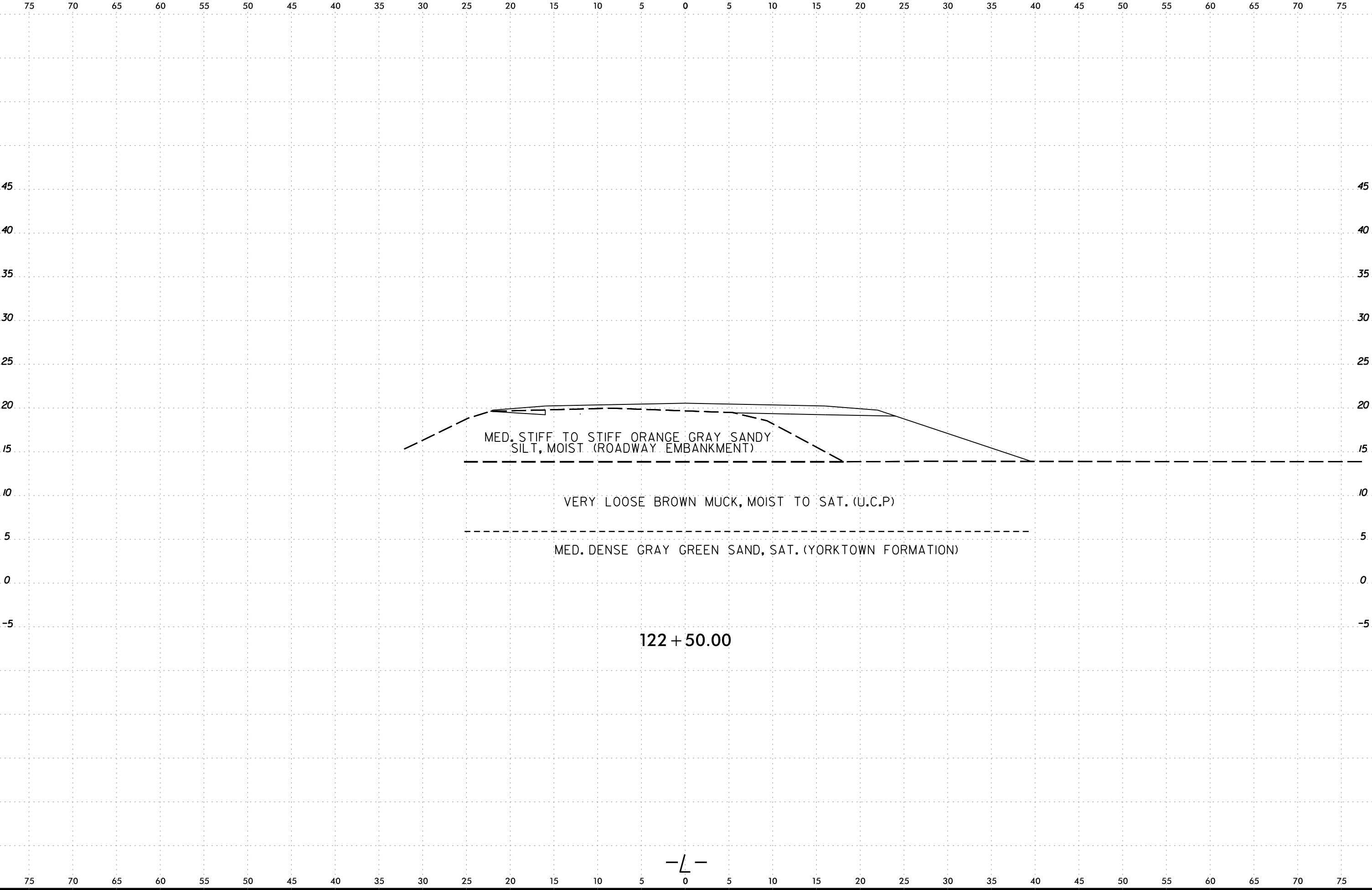
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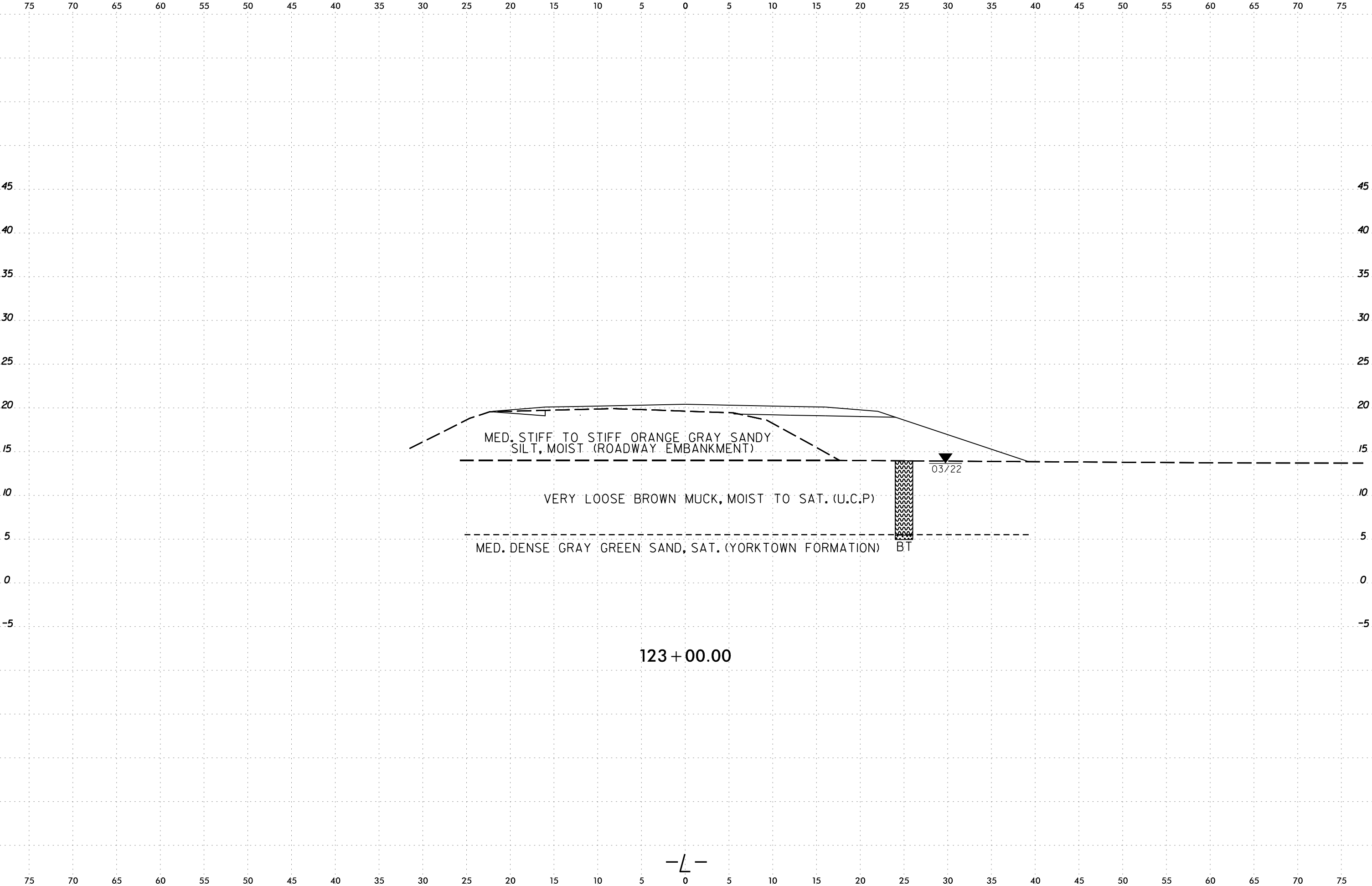
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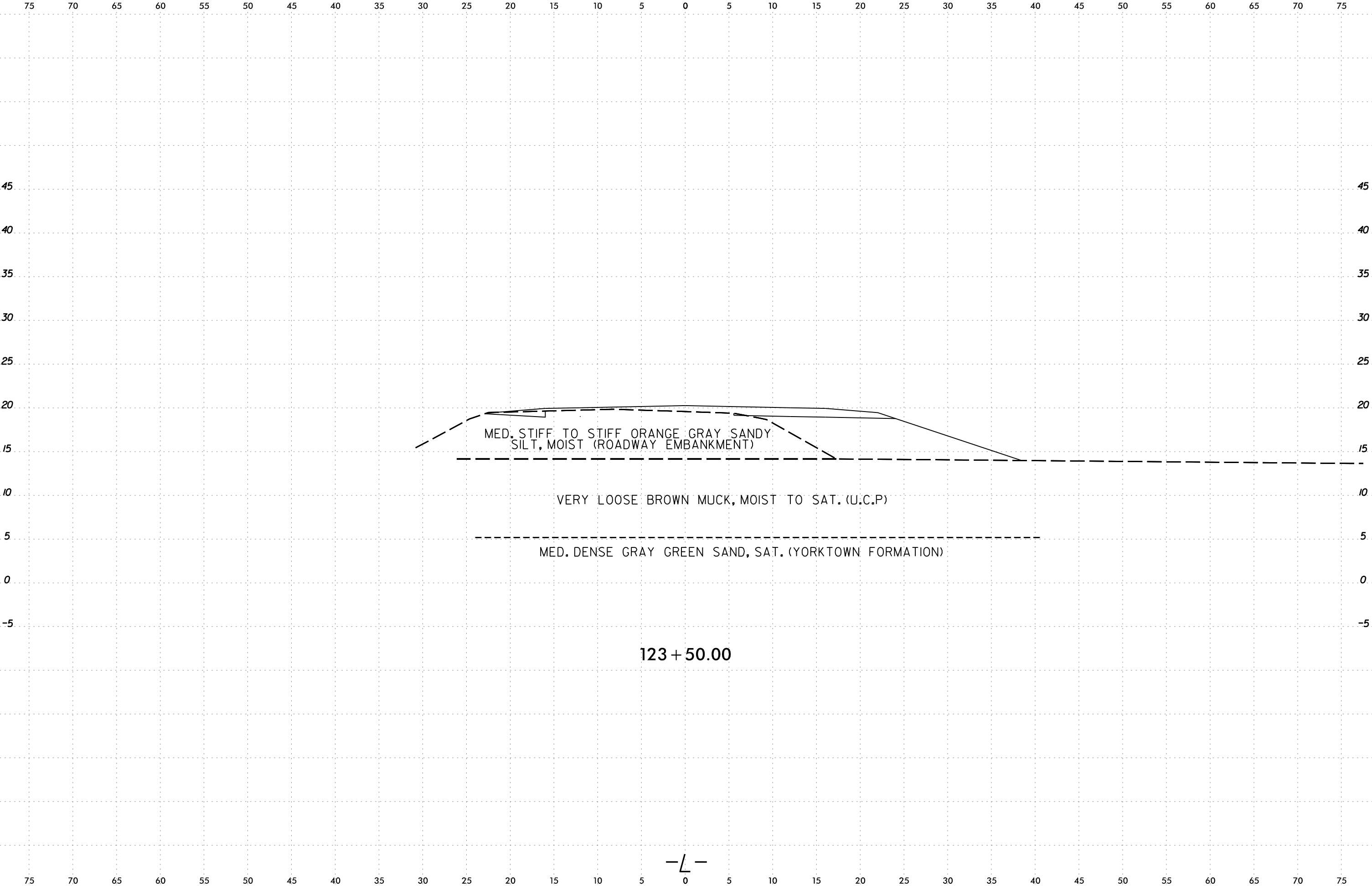
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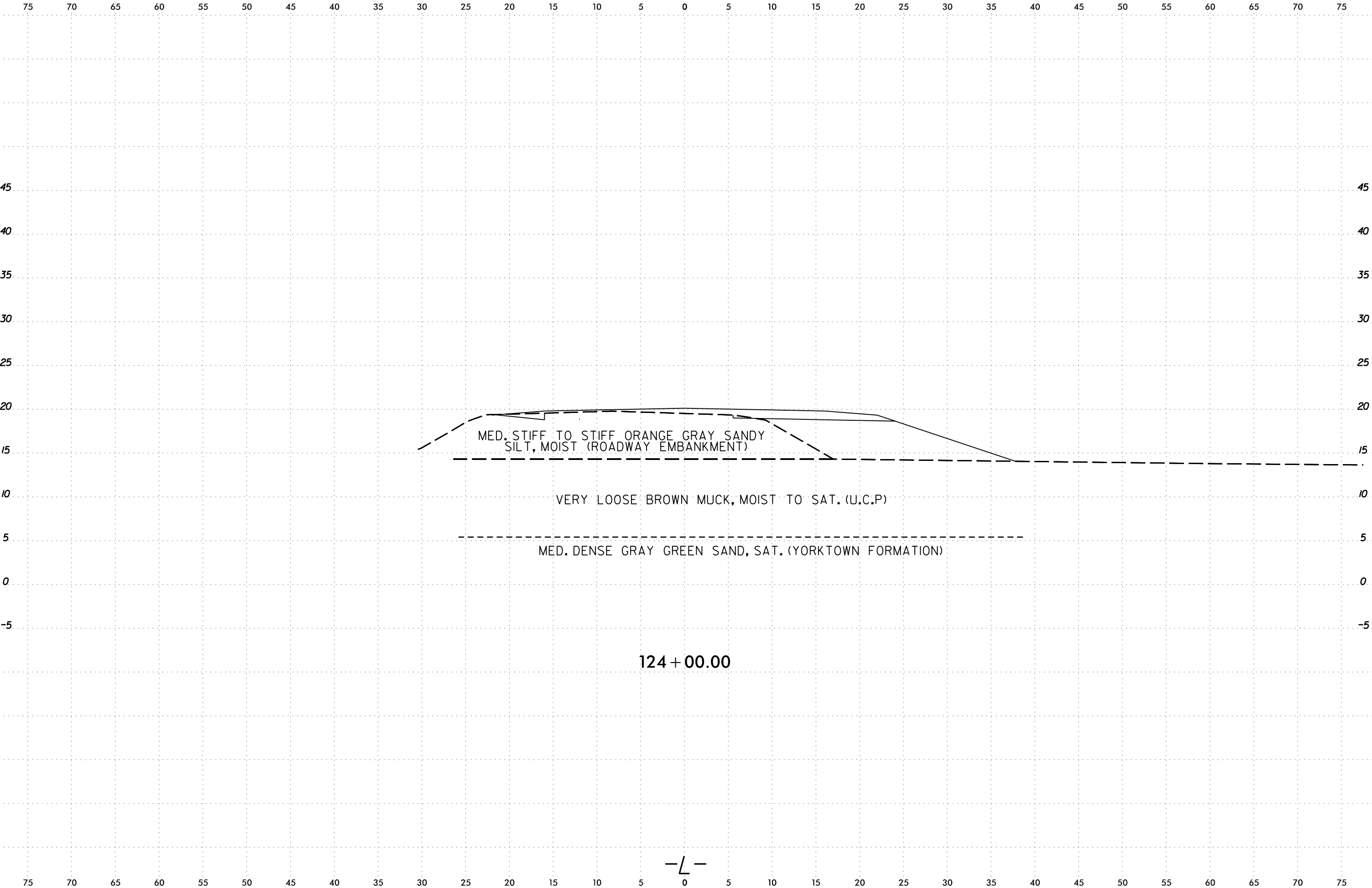
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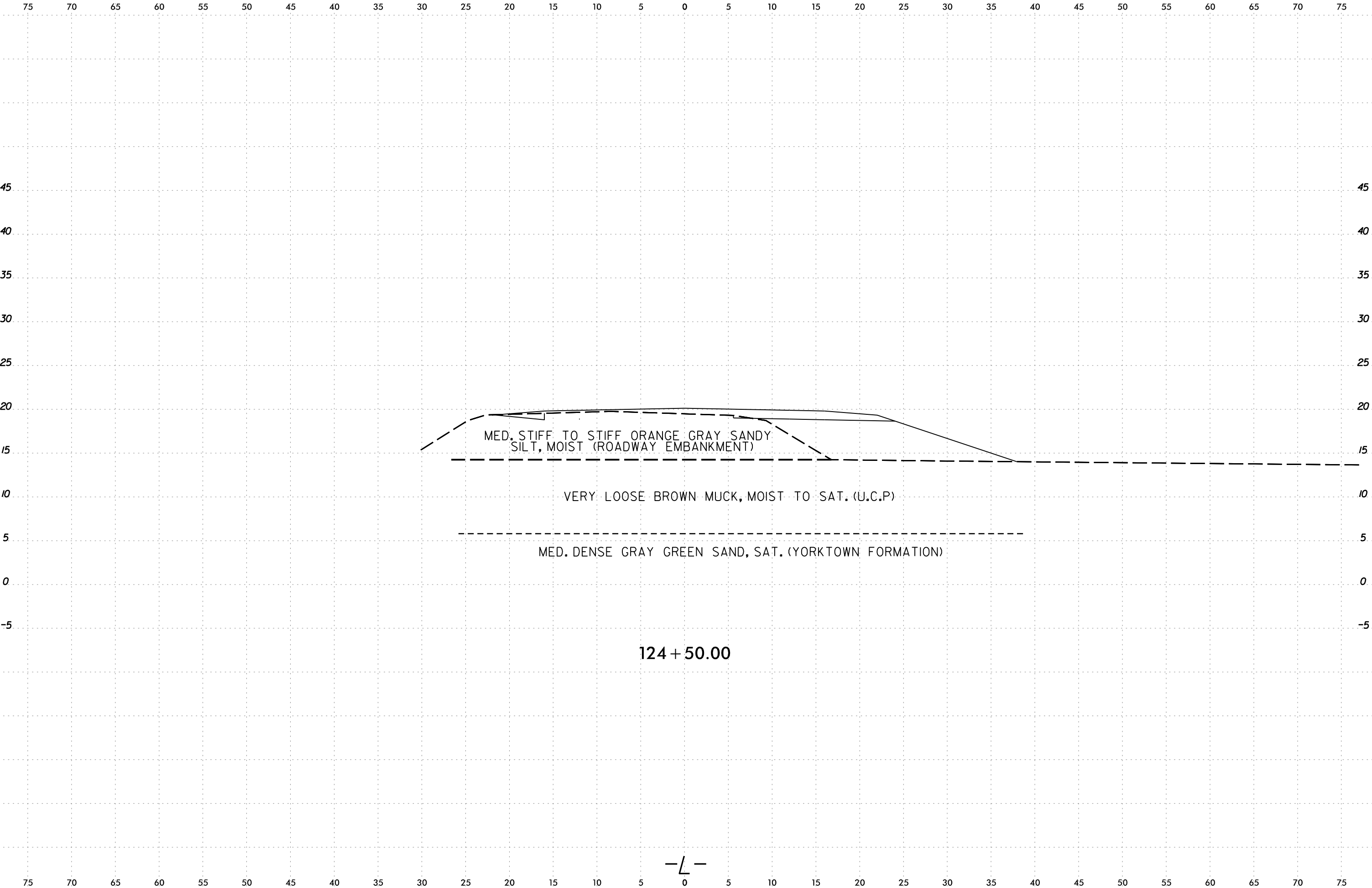
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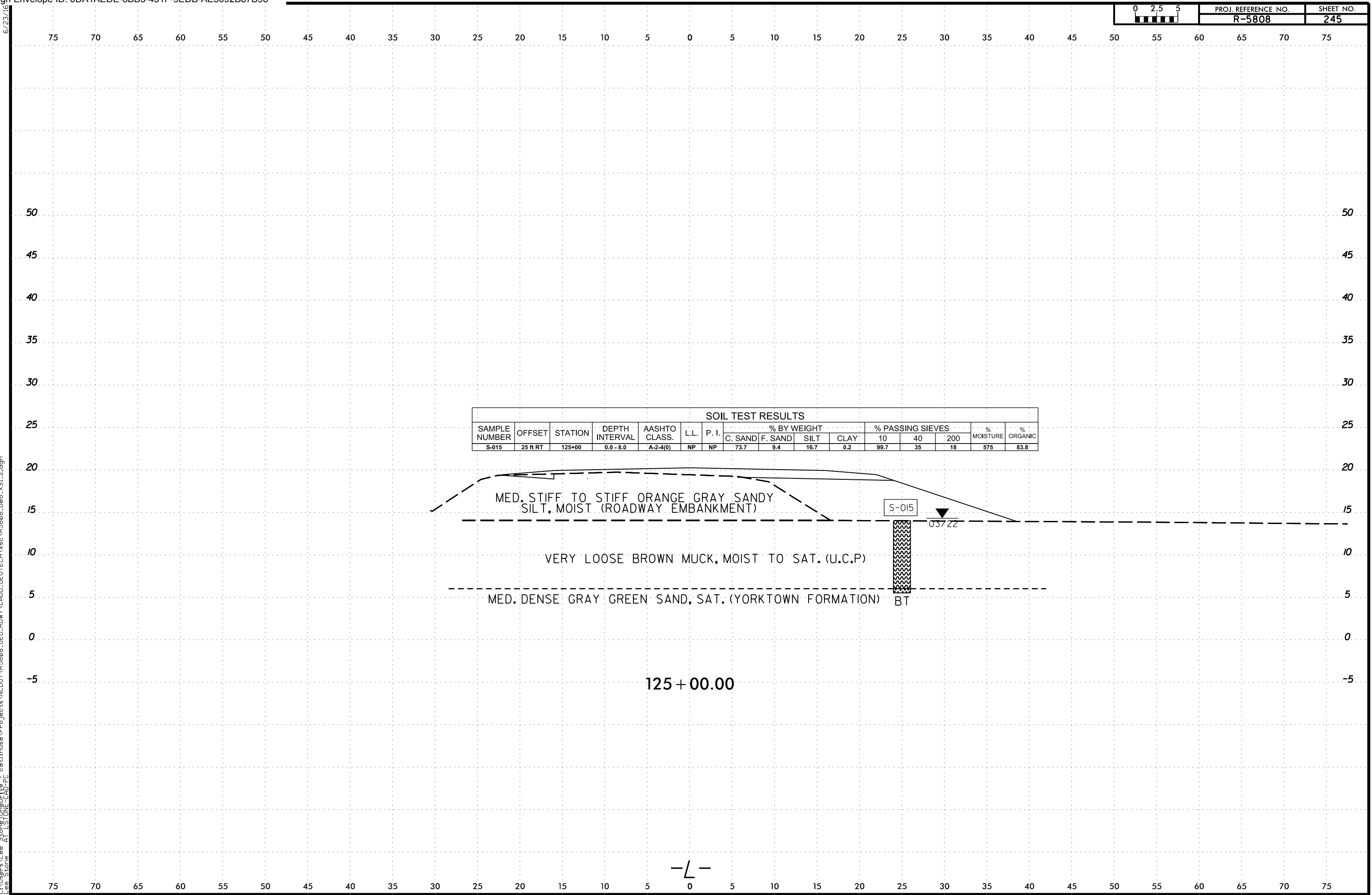


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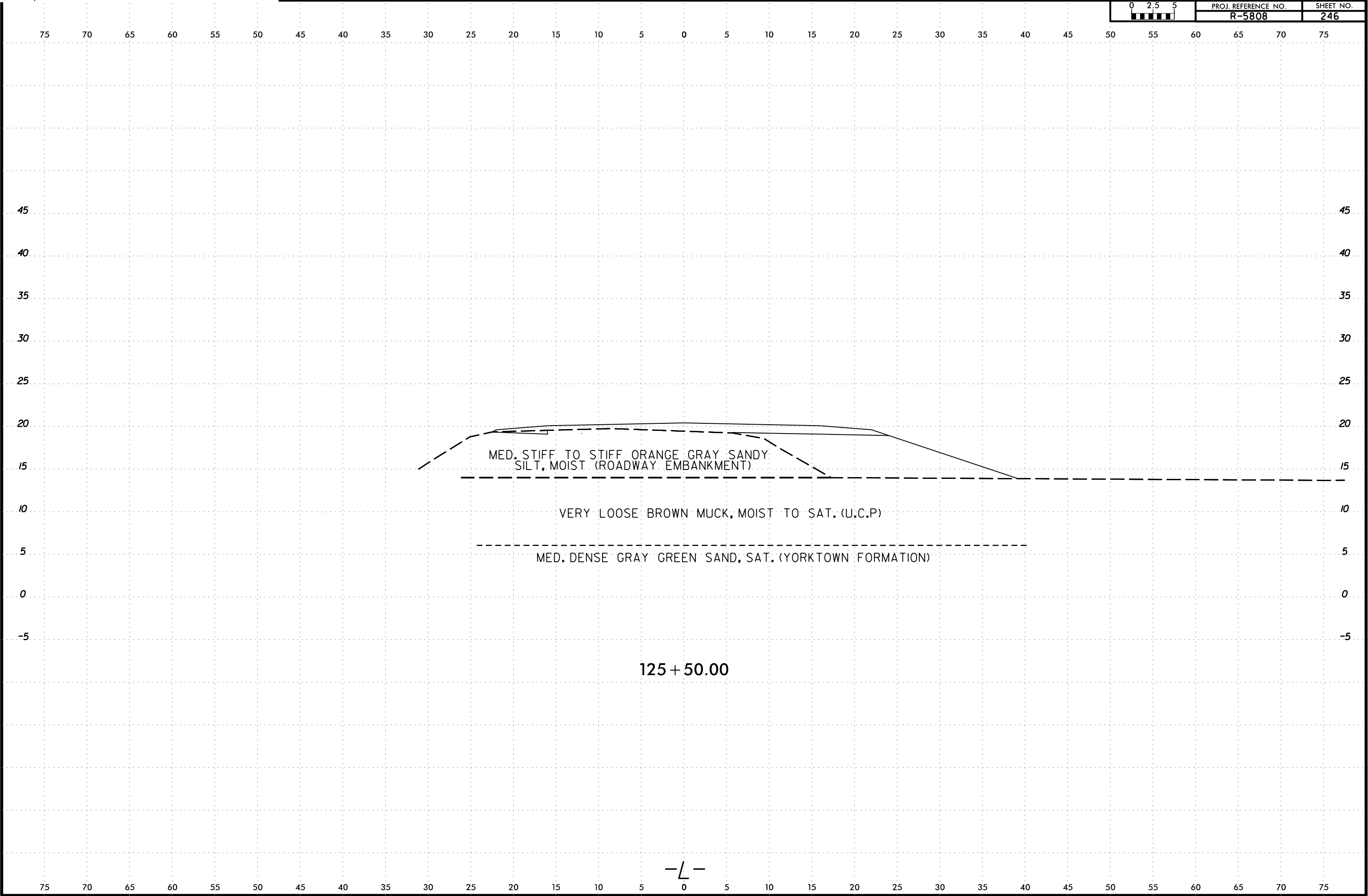




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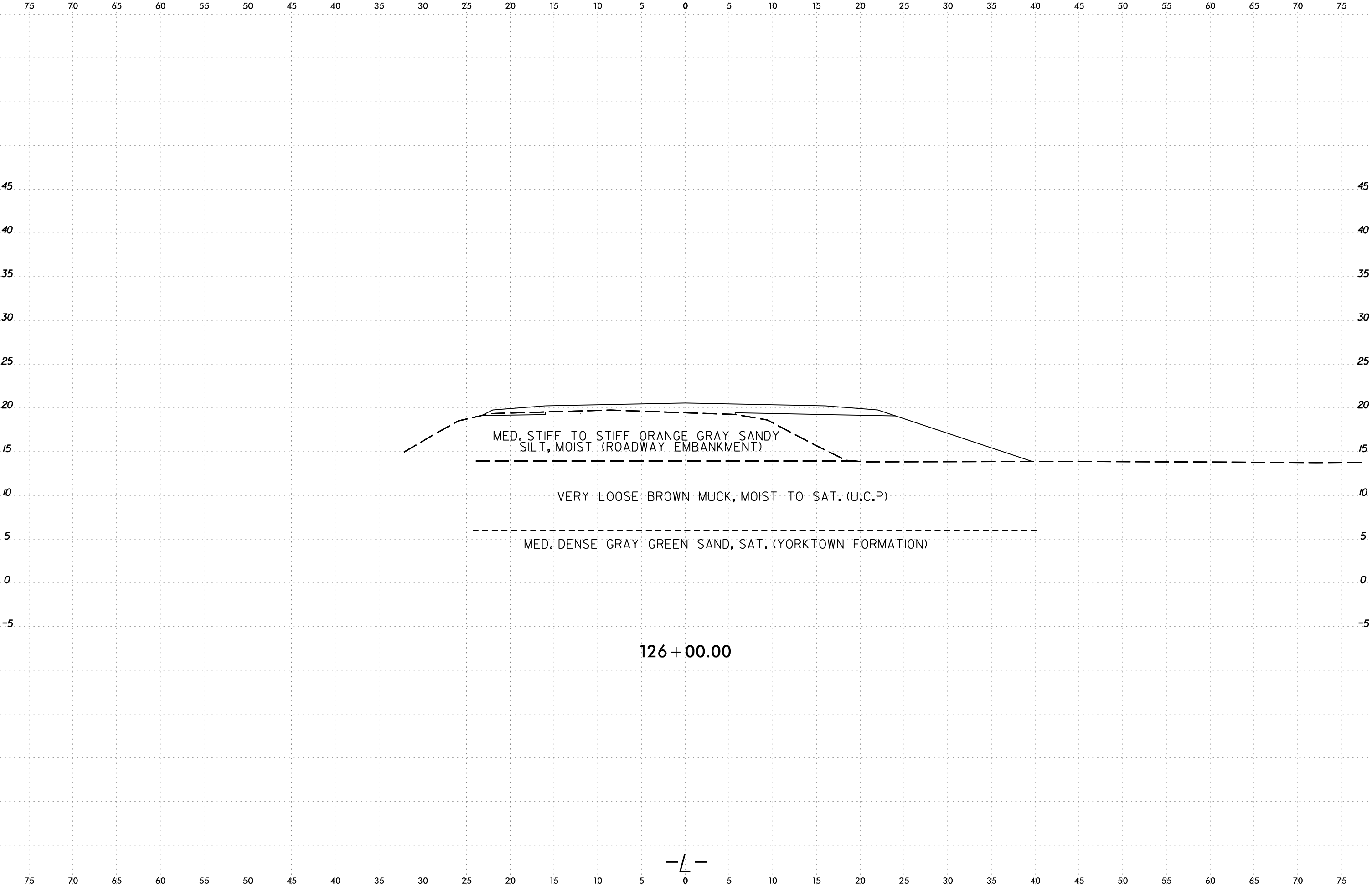
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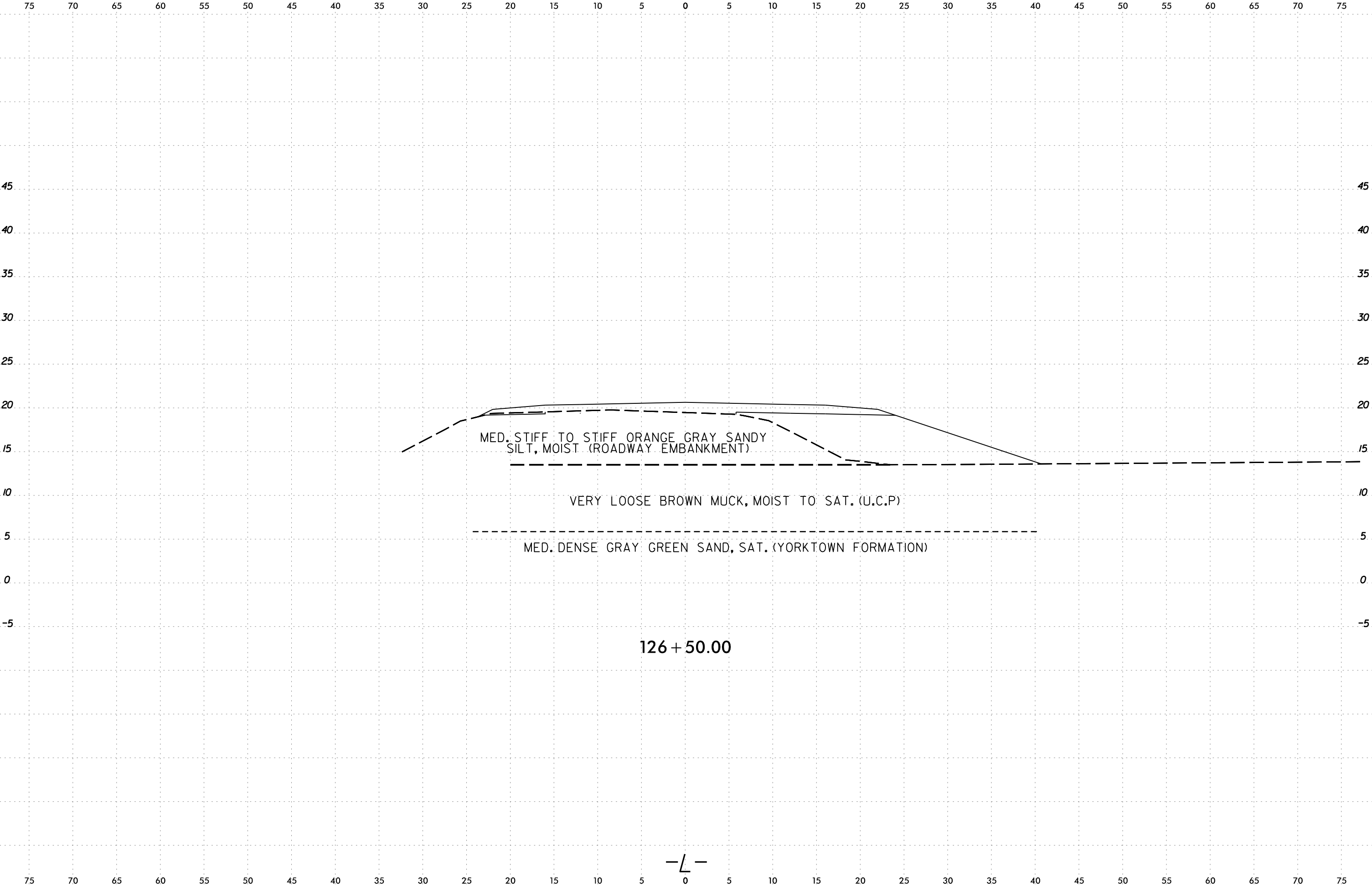
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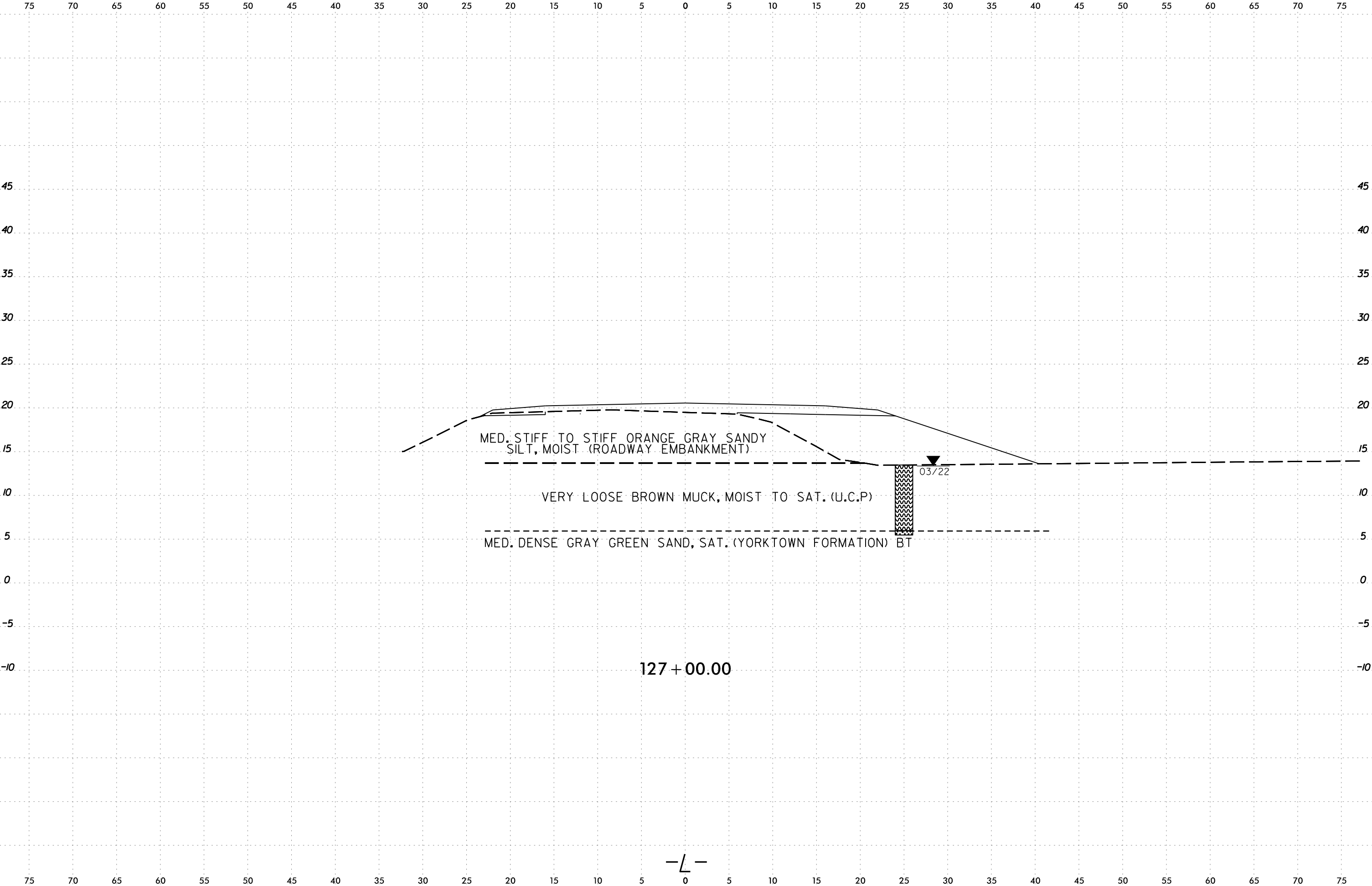


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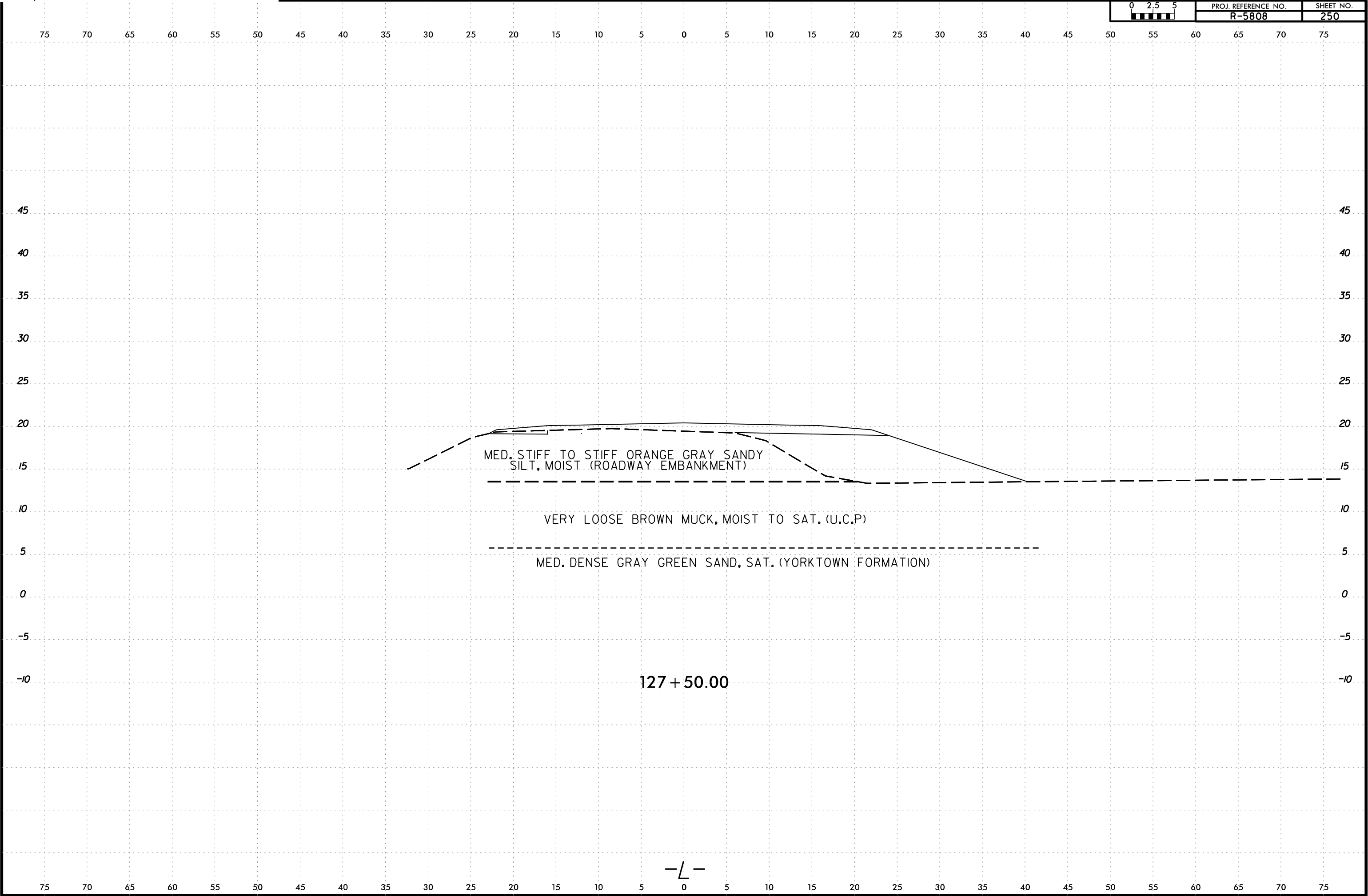
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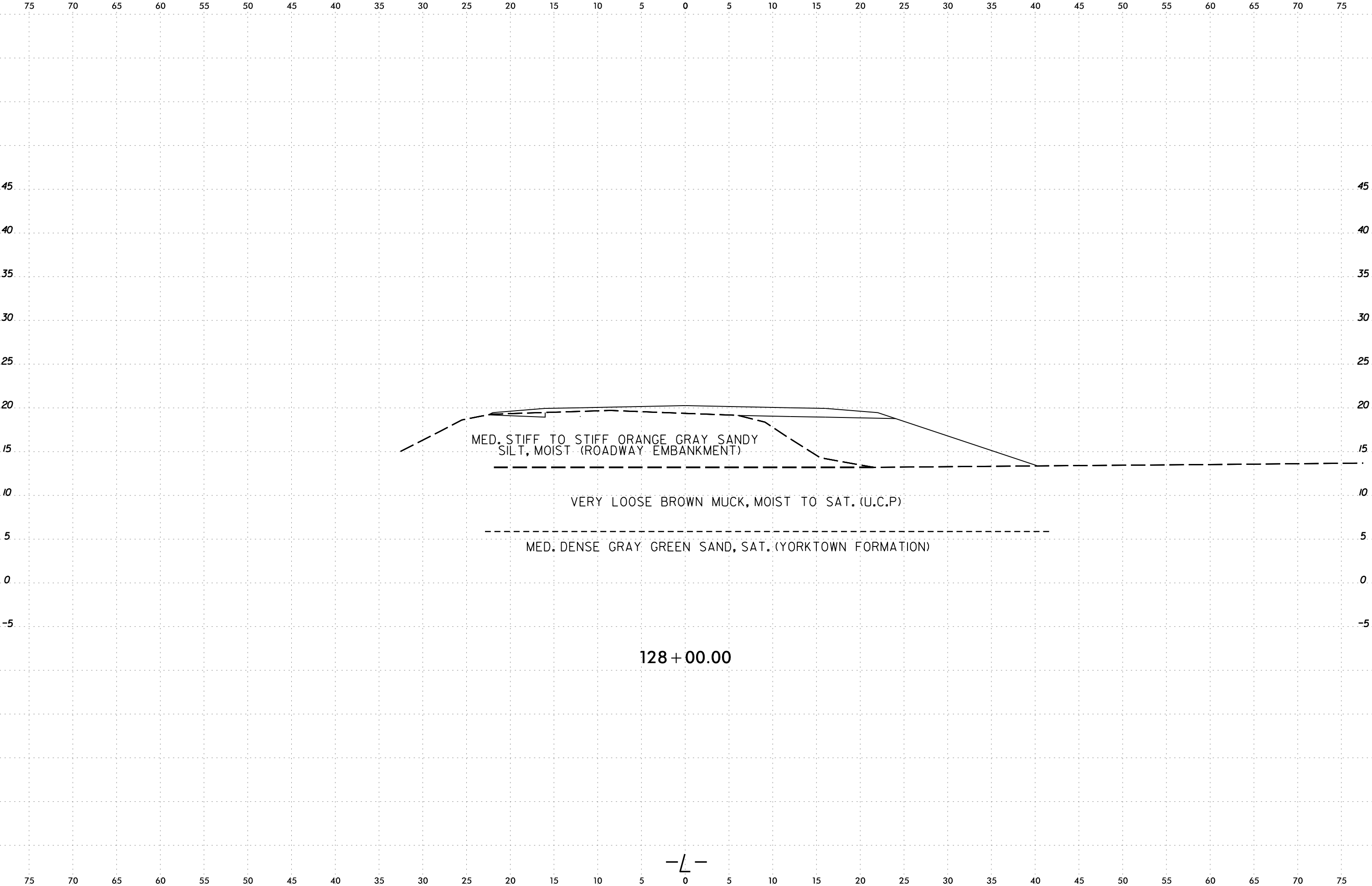


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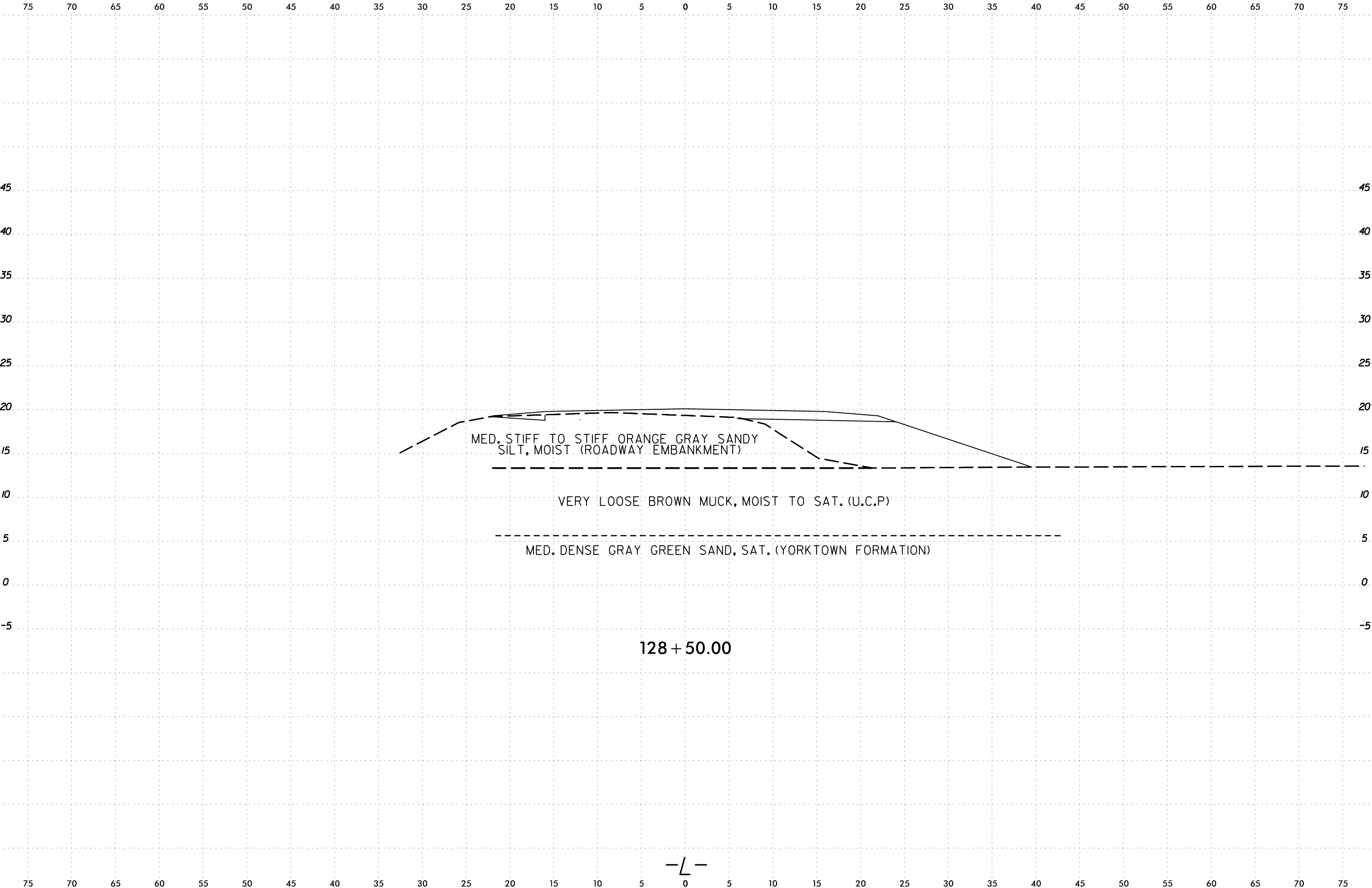
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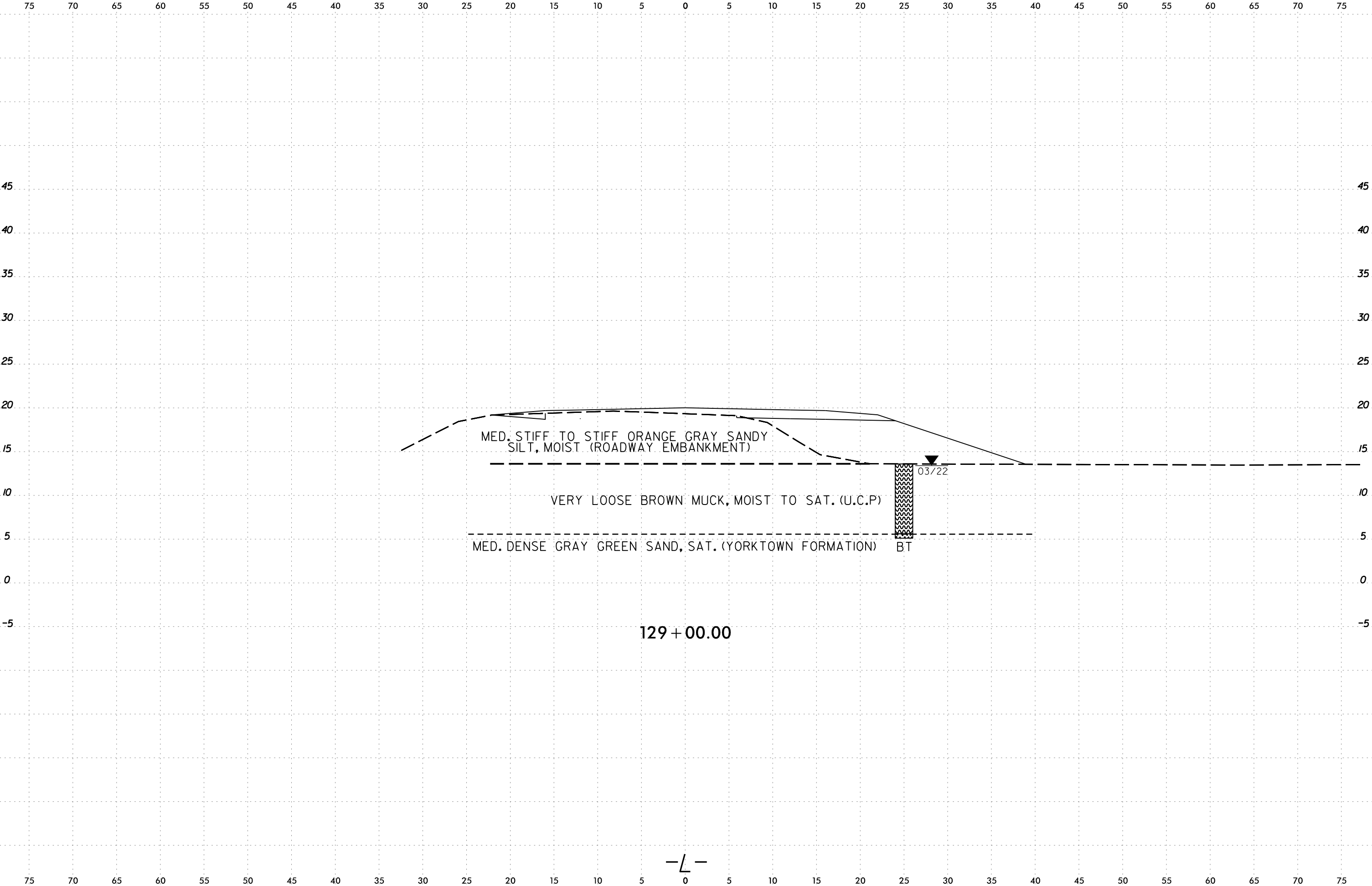
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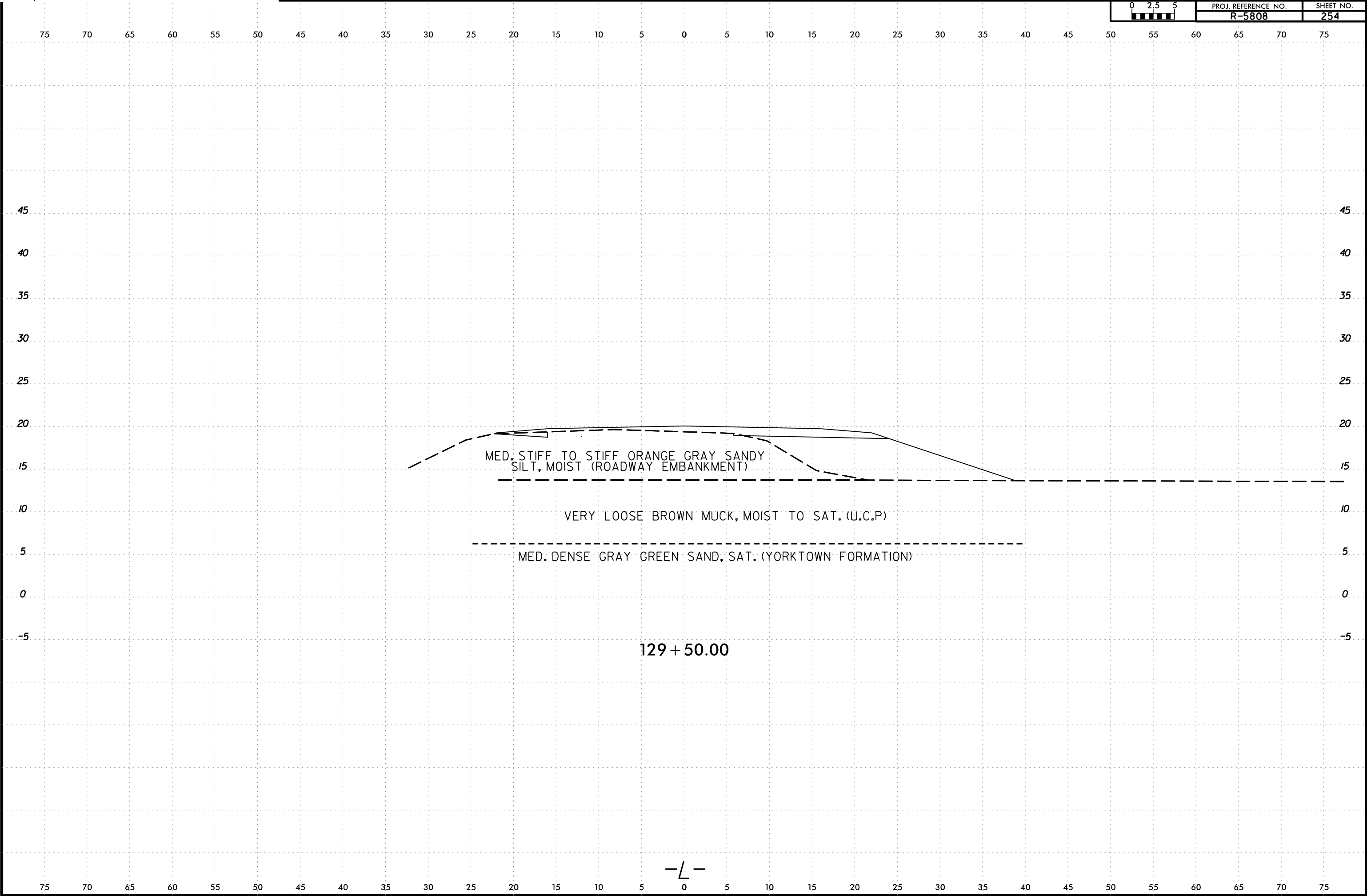


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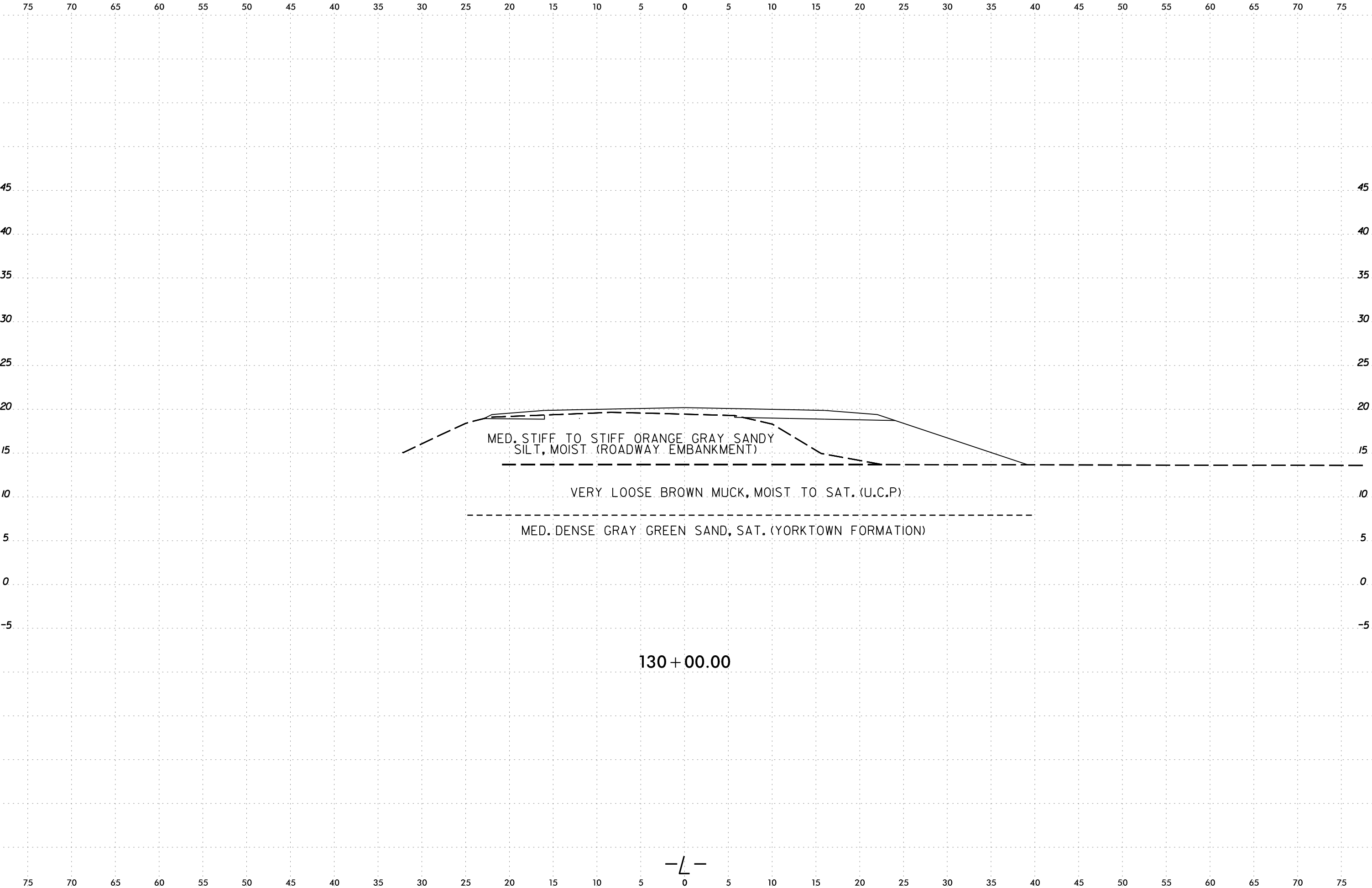
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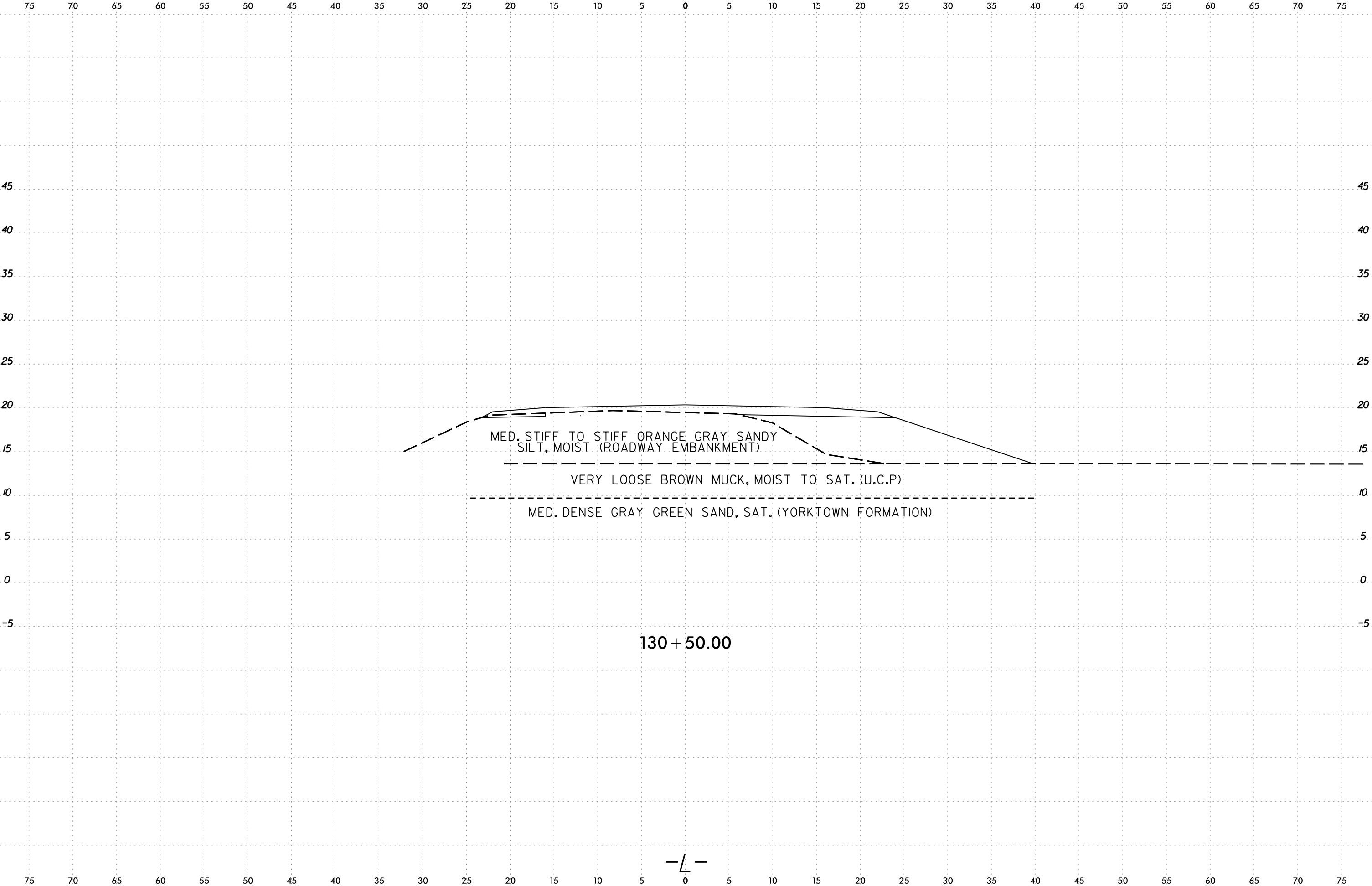
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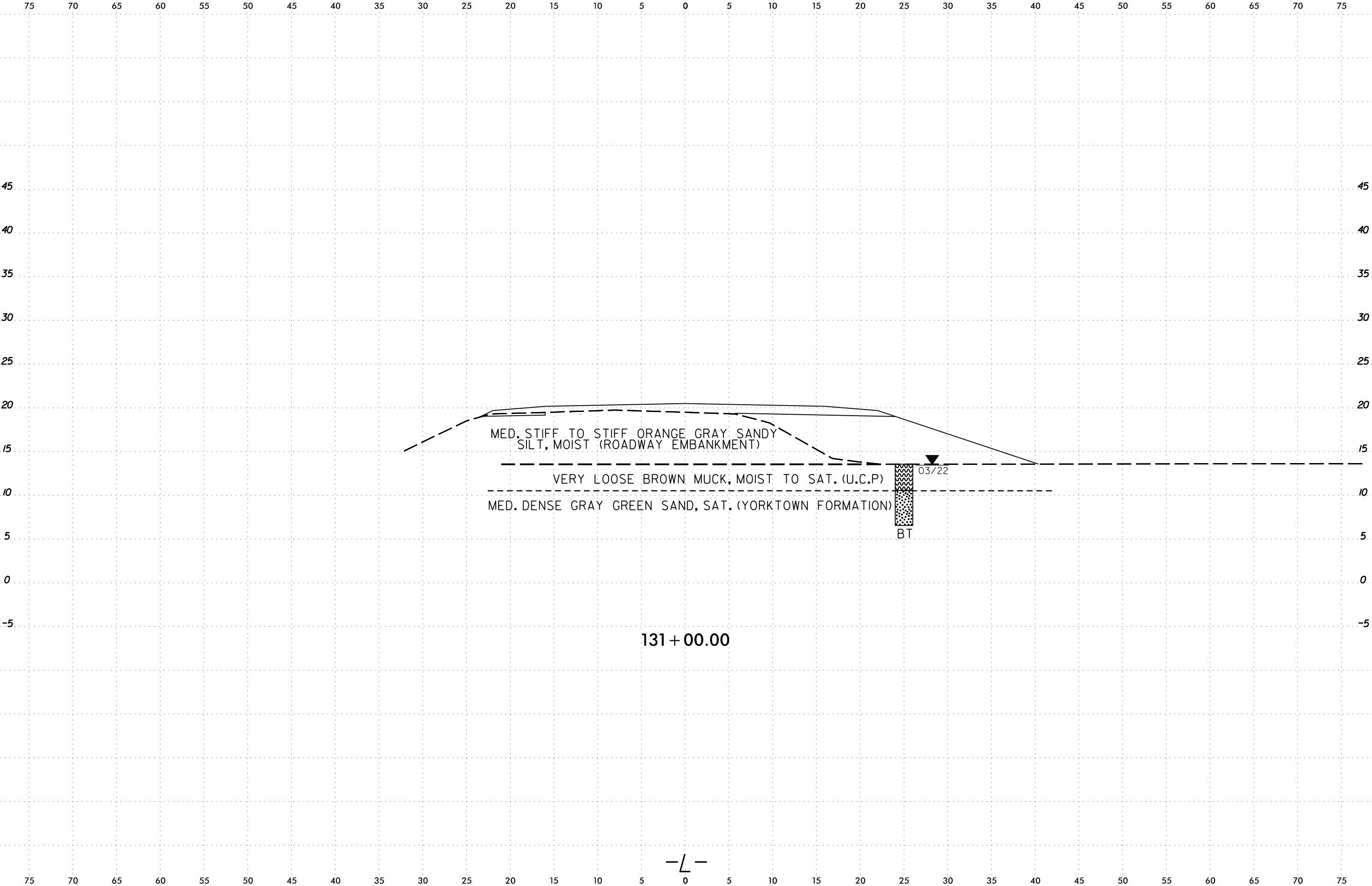
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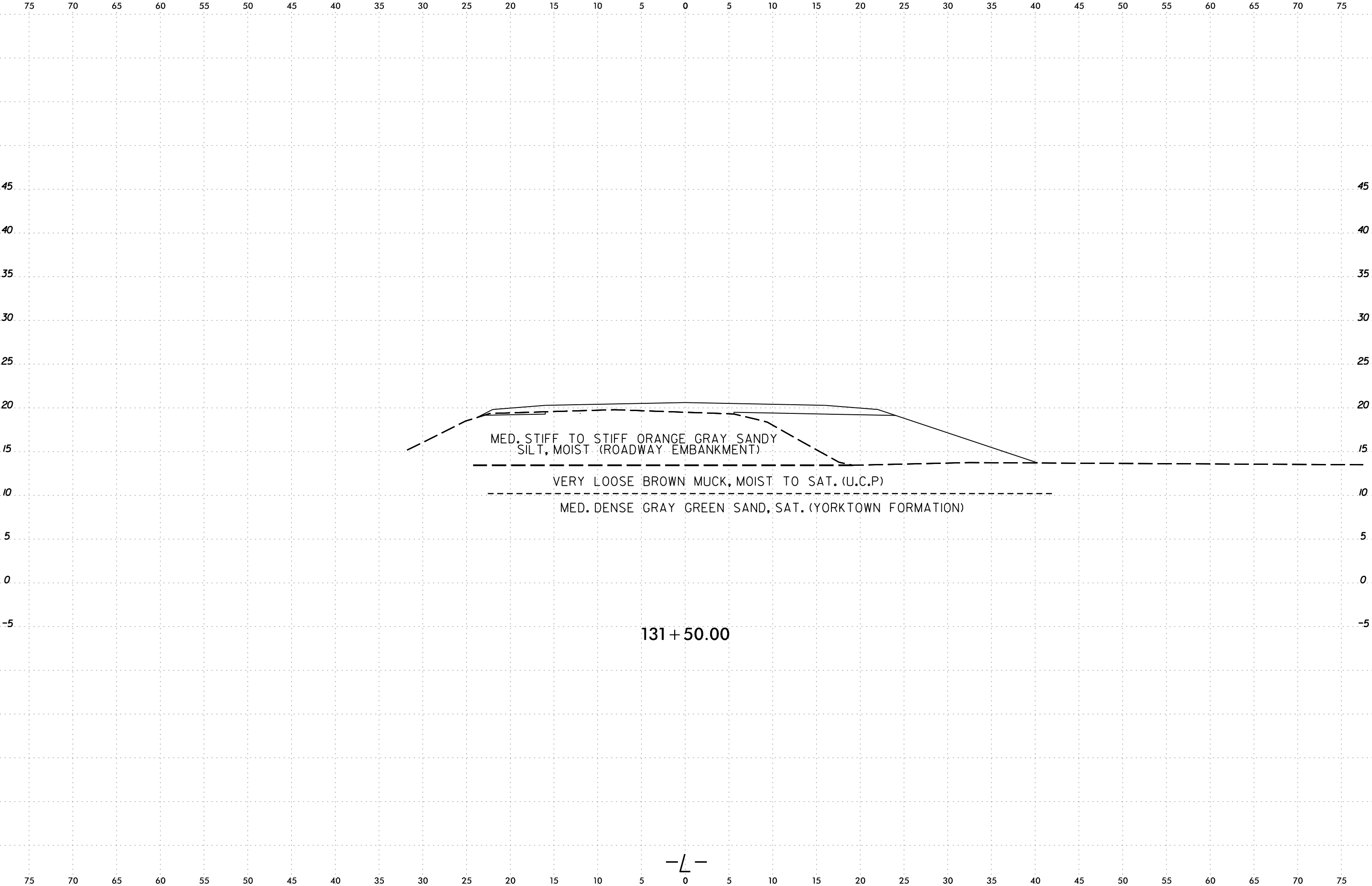
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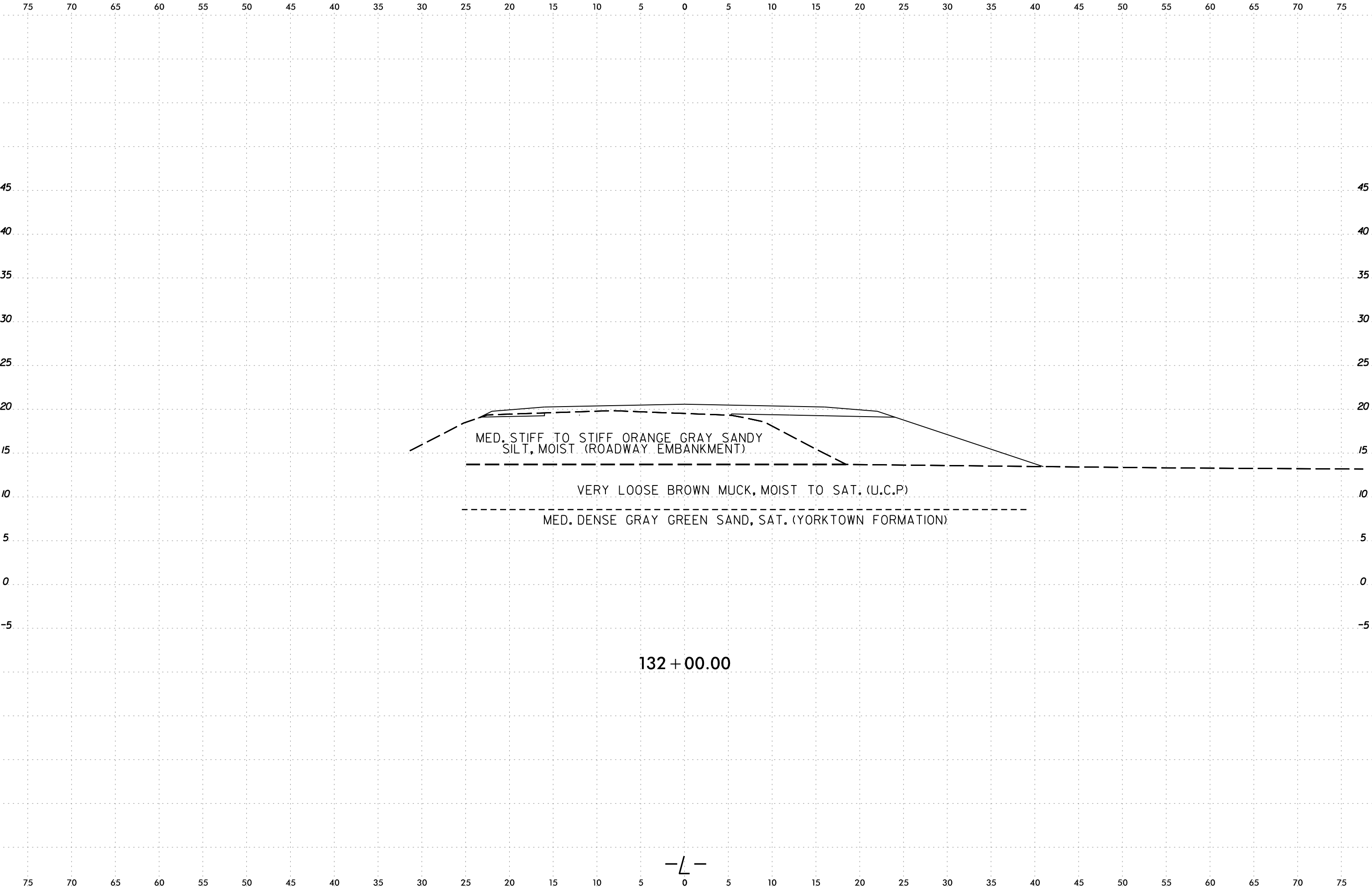
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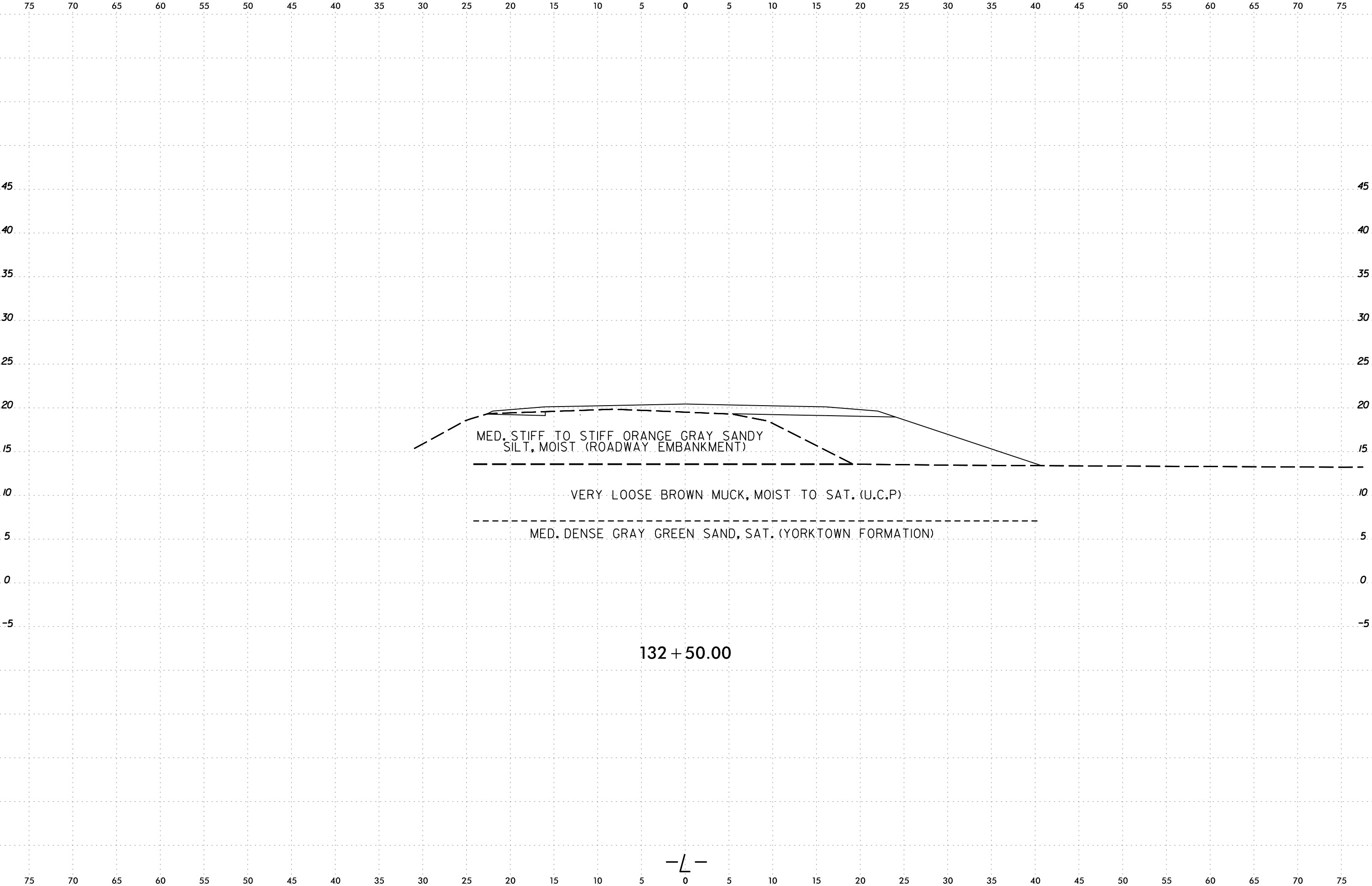
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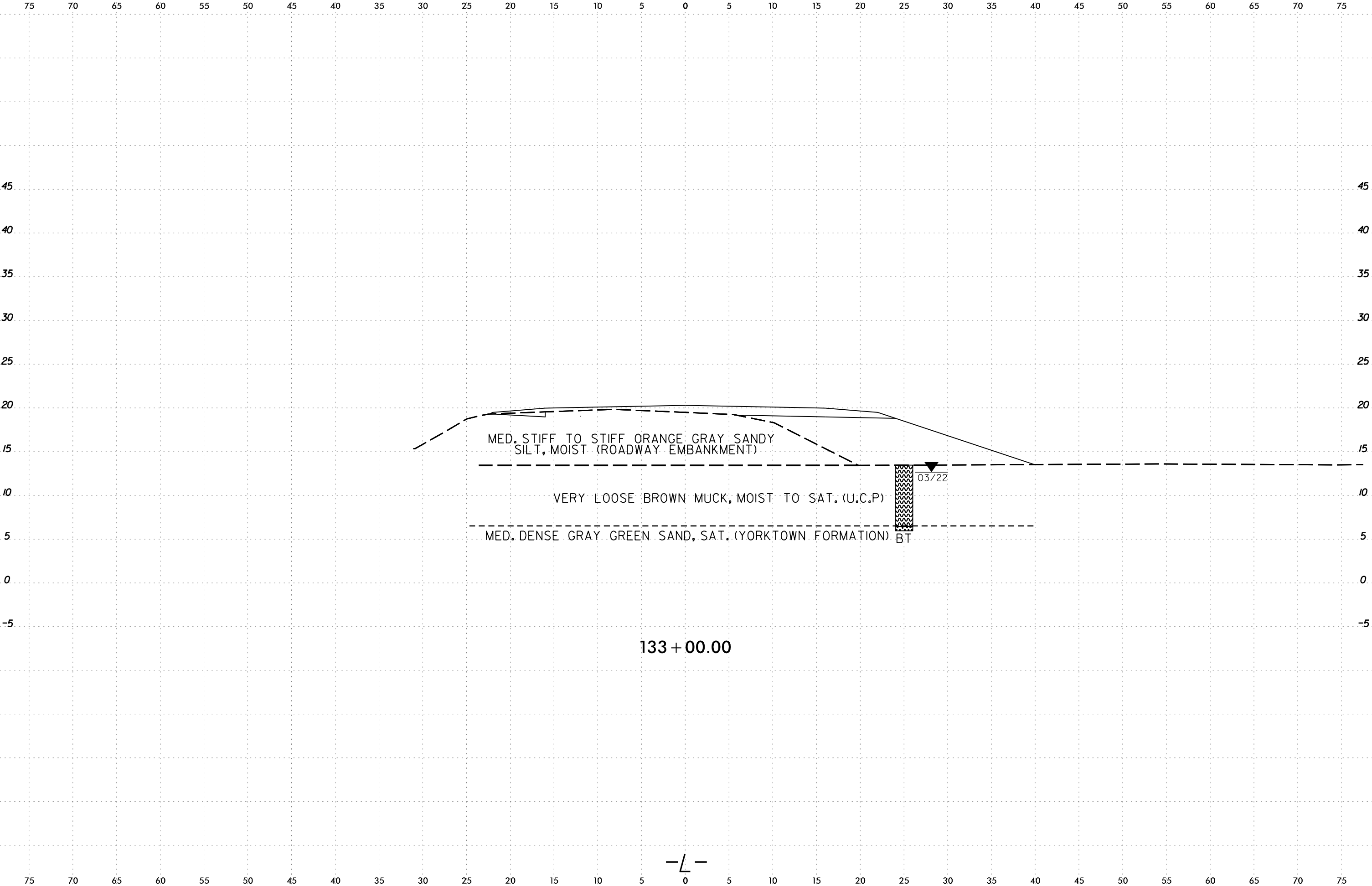
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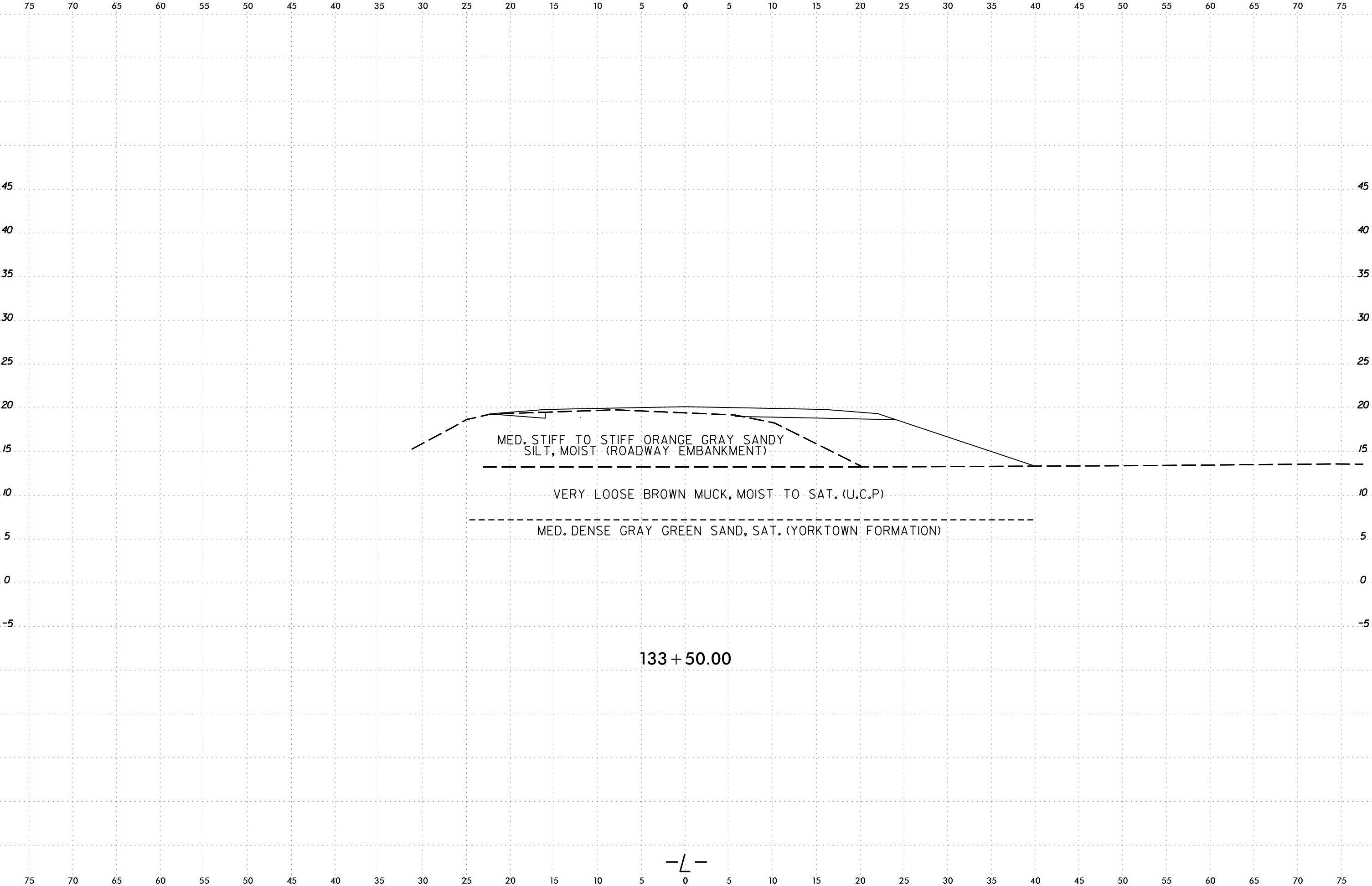
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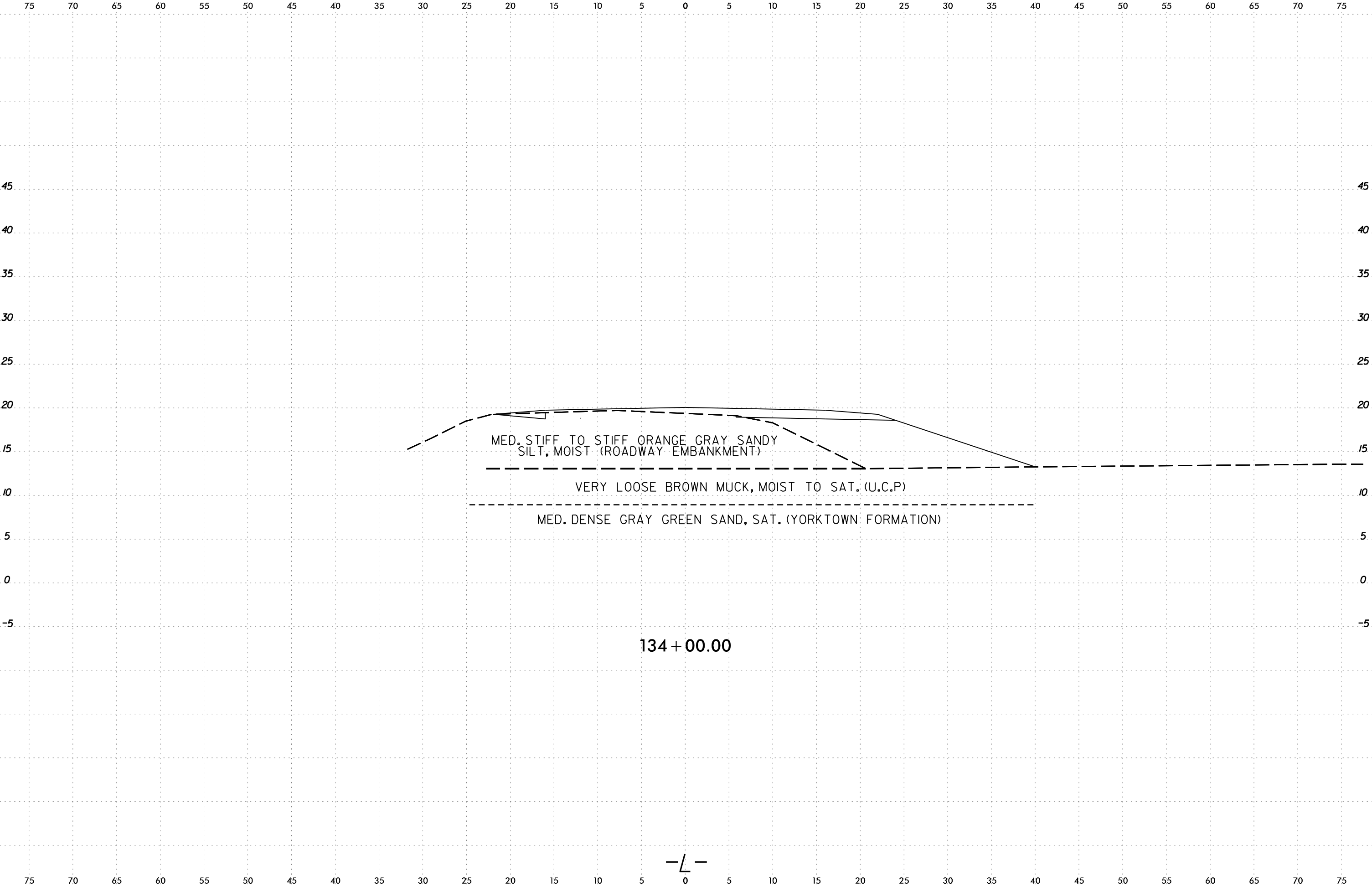
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	R-5808	262



6/23/16

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Lee Stone AT LSTONE-CAD-PC

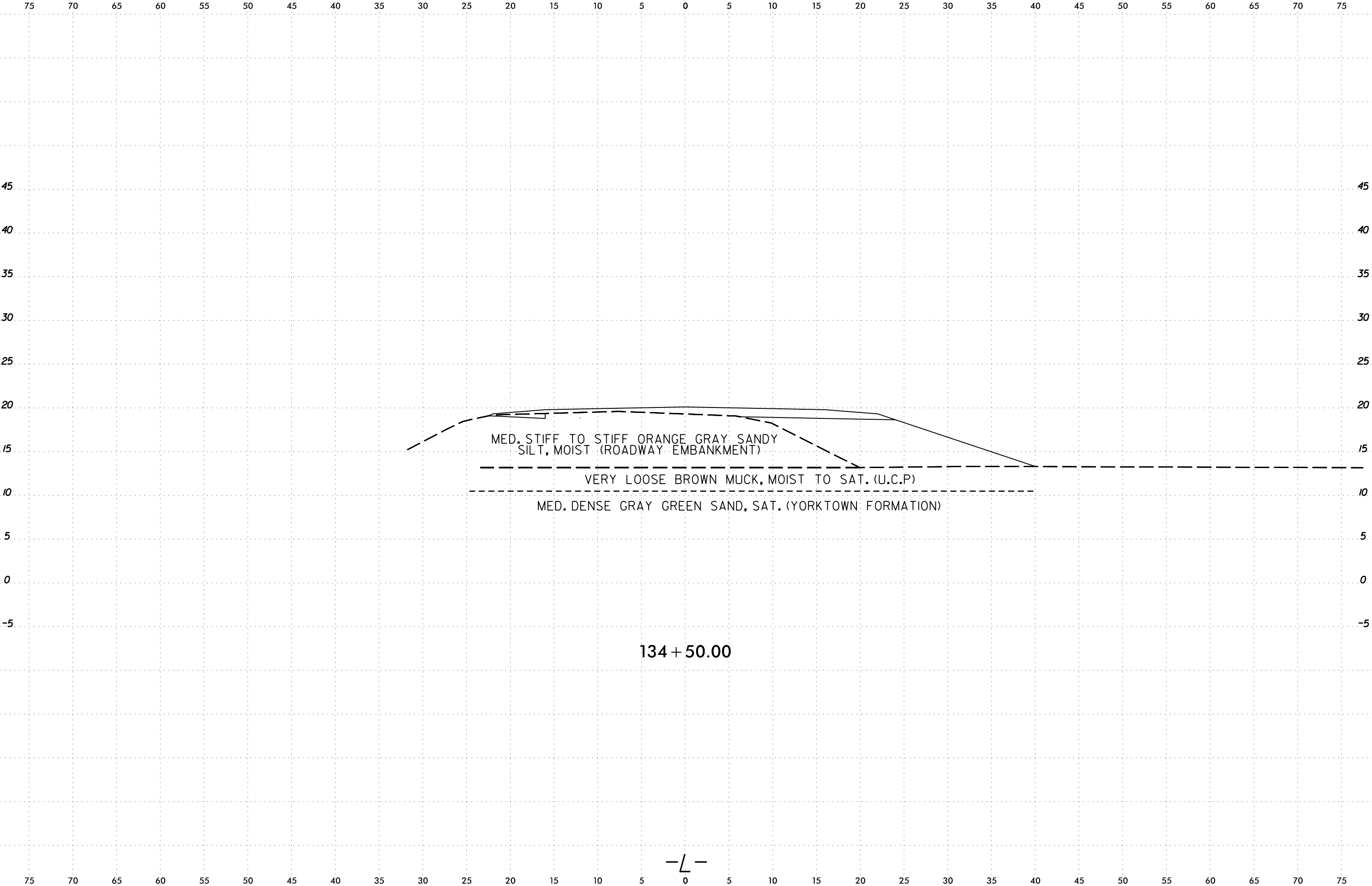
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	R-5808	263



6/23/16

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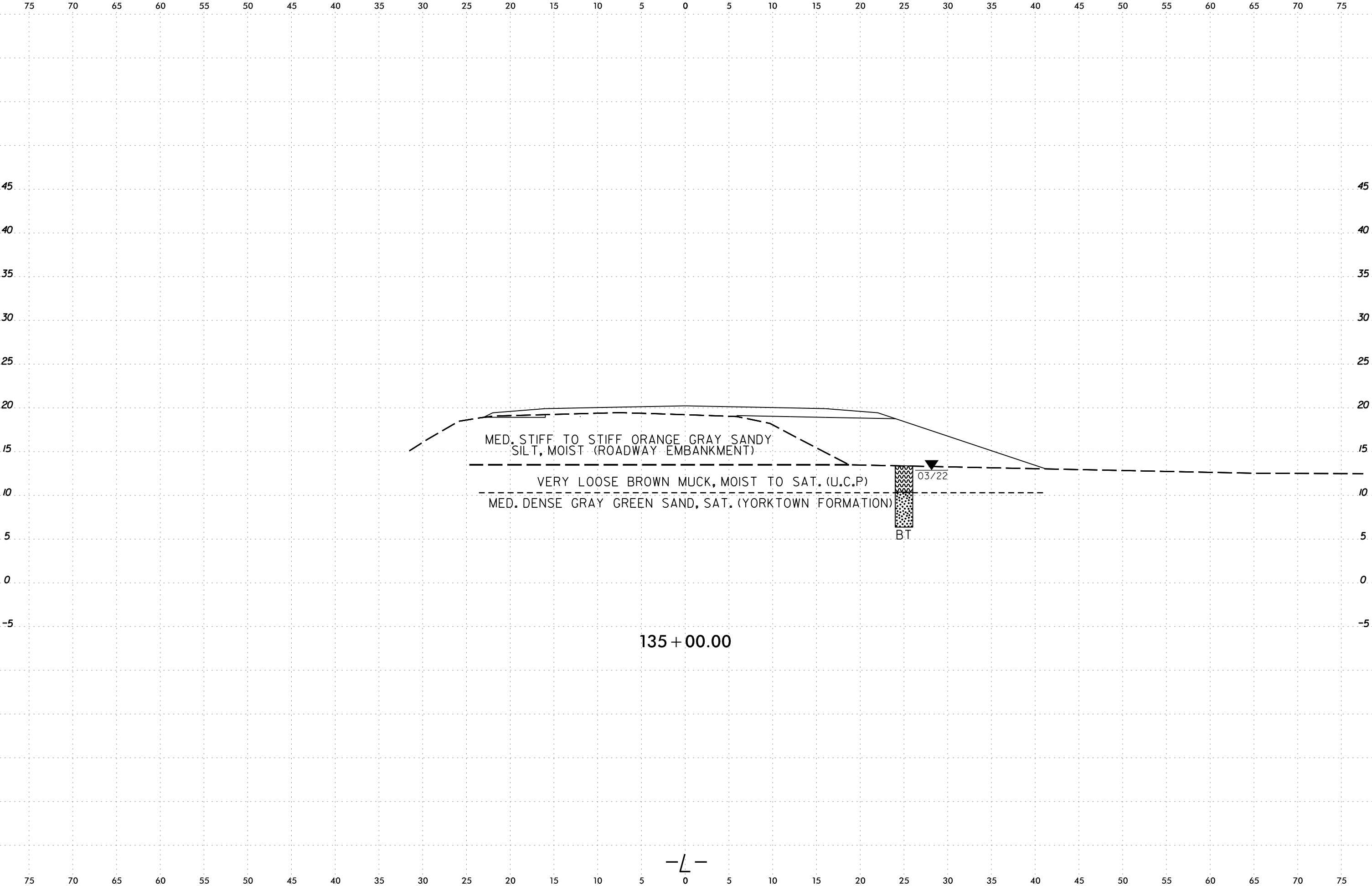
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	264



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	265

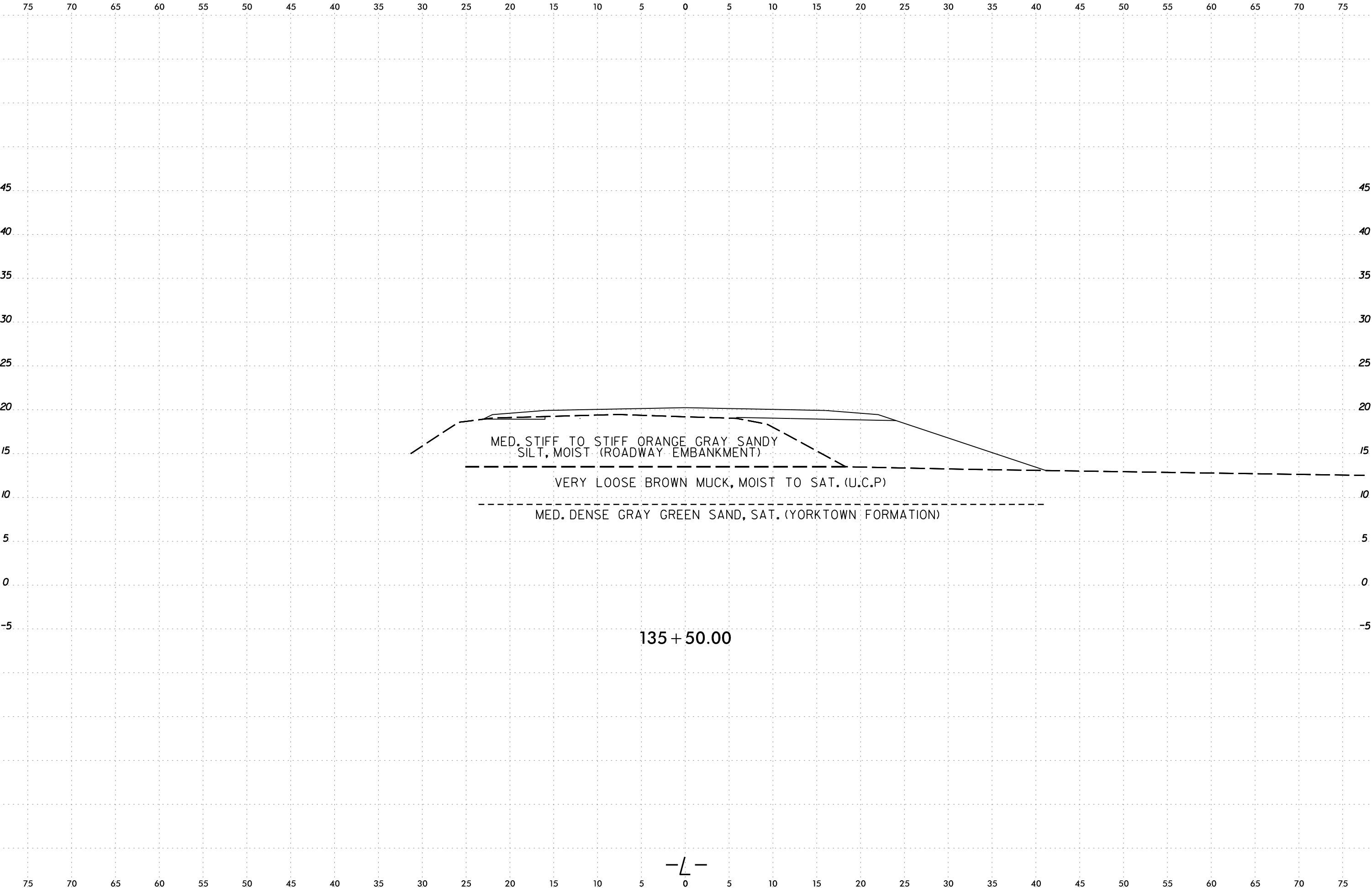


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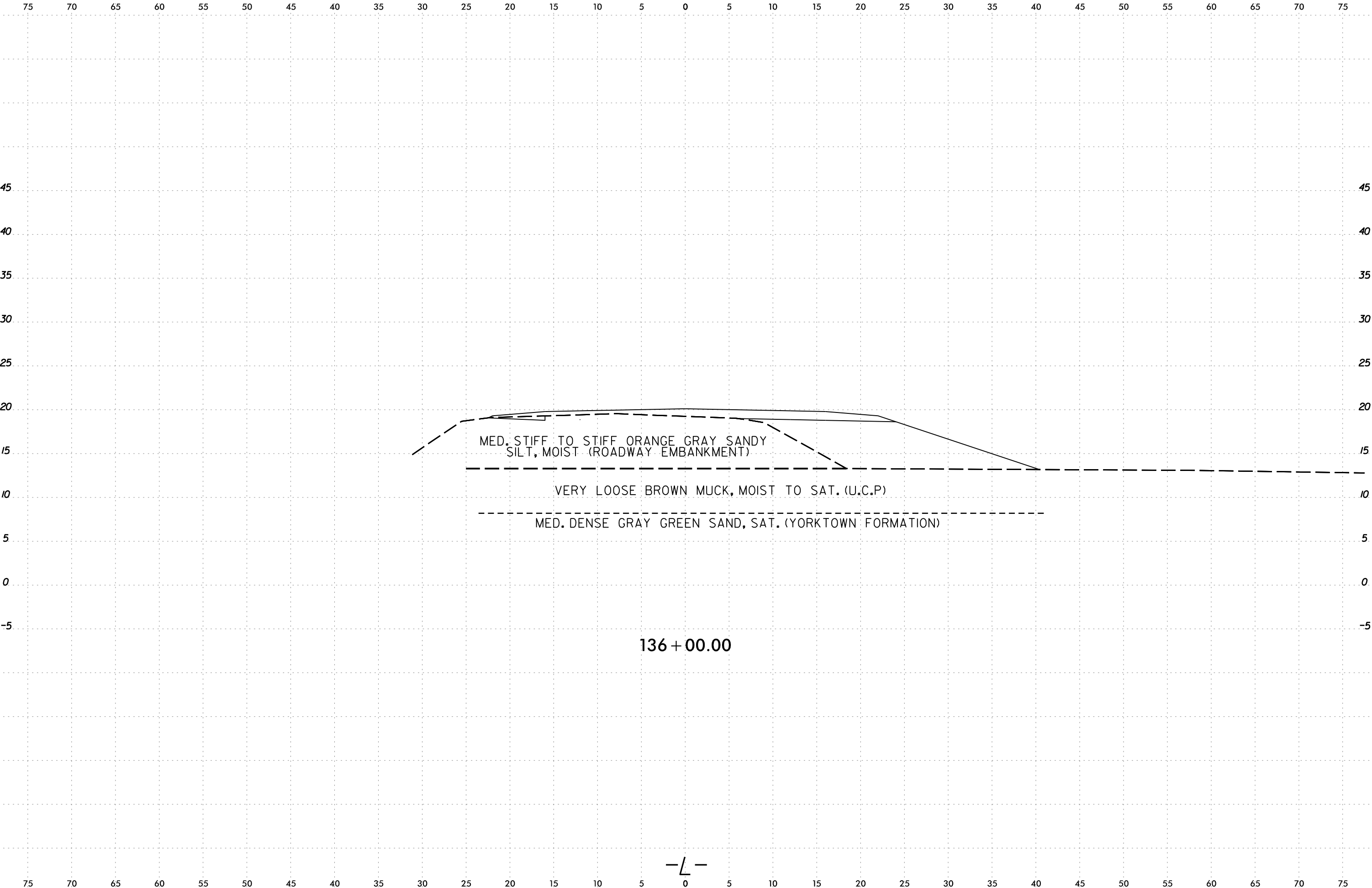
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	R-5808	266



6/23/16

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Lee Stone AT LSTONE-CAD-PC

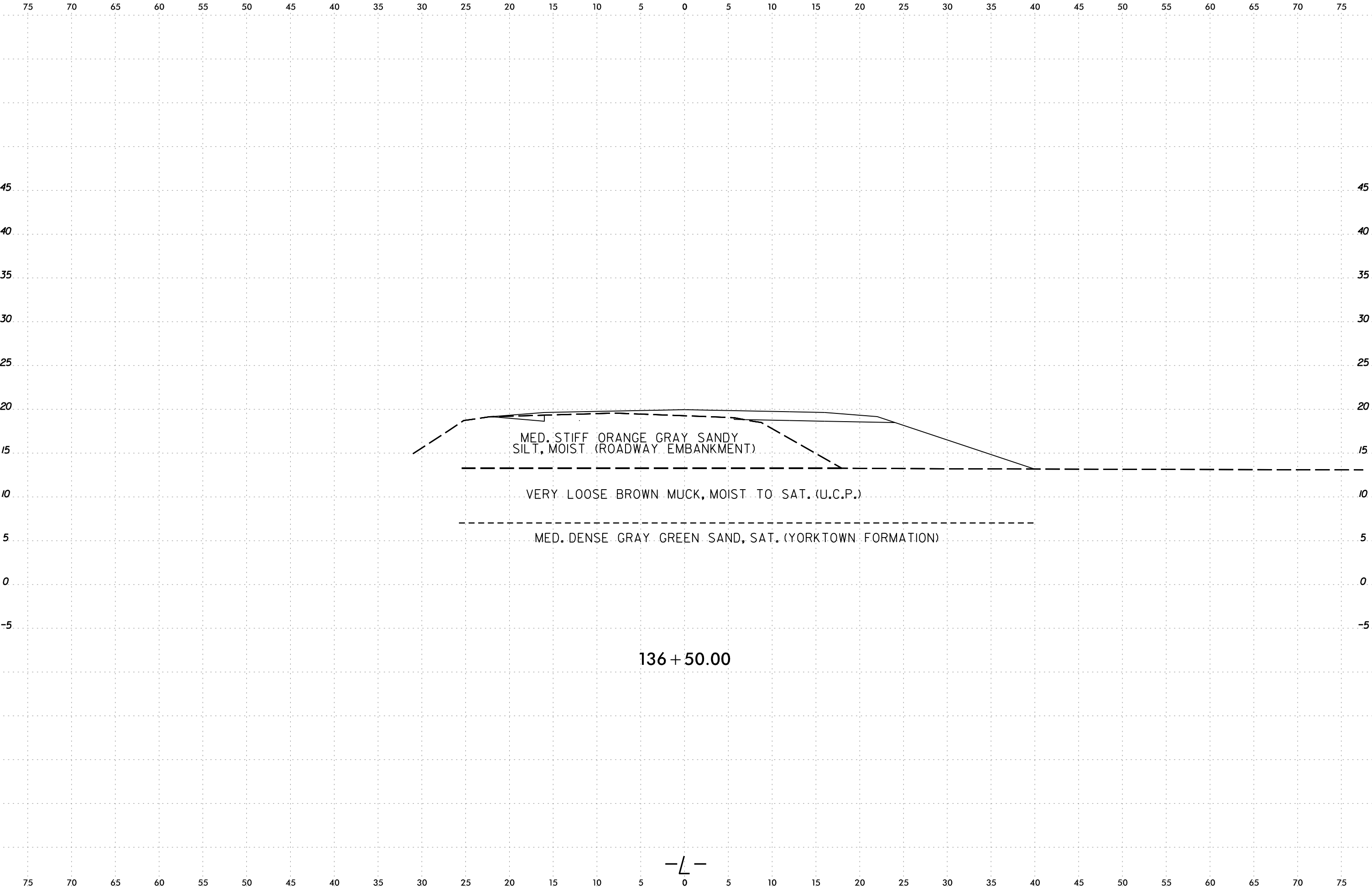
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	R-5808	267



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Lee Stone AT LSTONE-CAD-PC

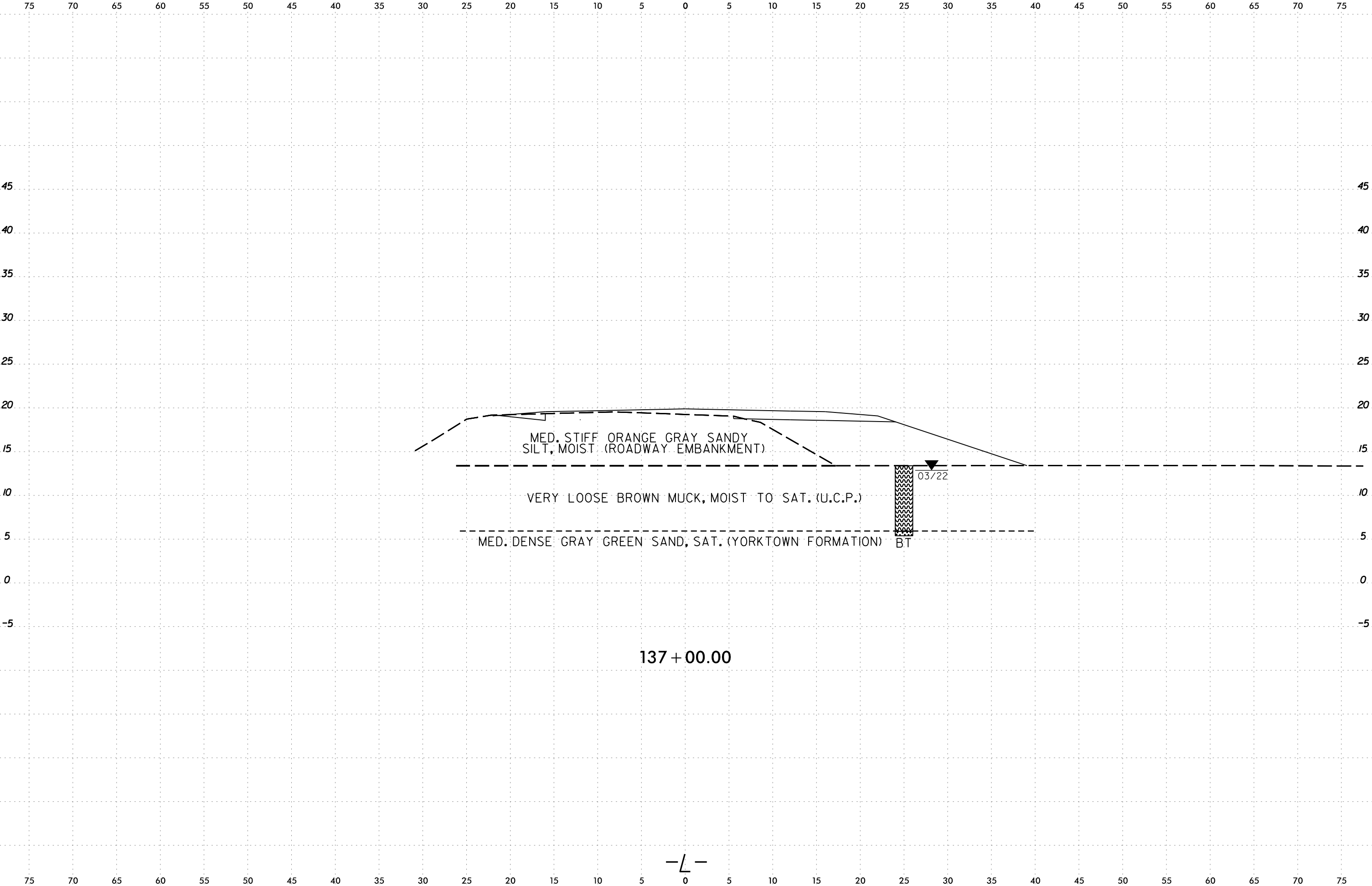
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Lee Stone AT LSTONE-CAD-PC

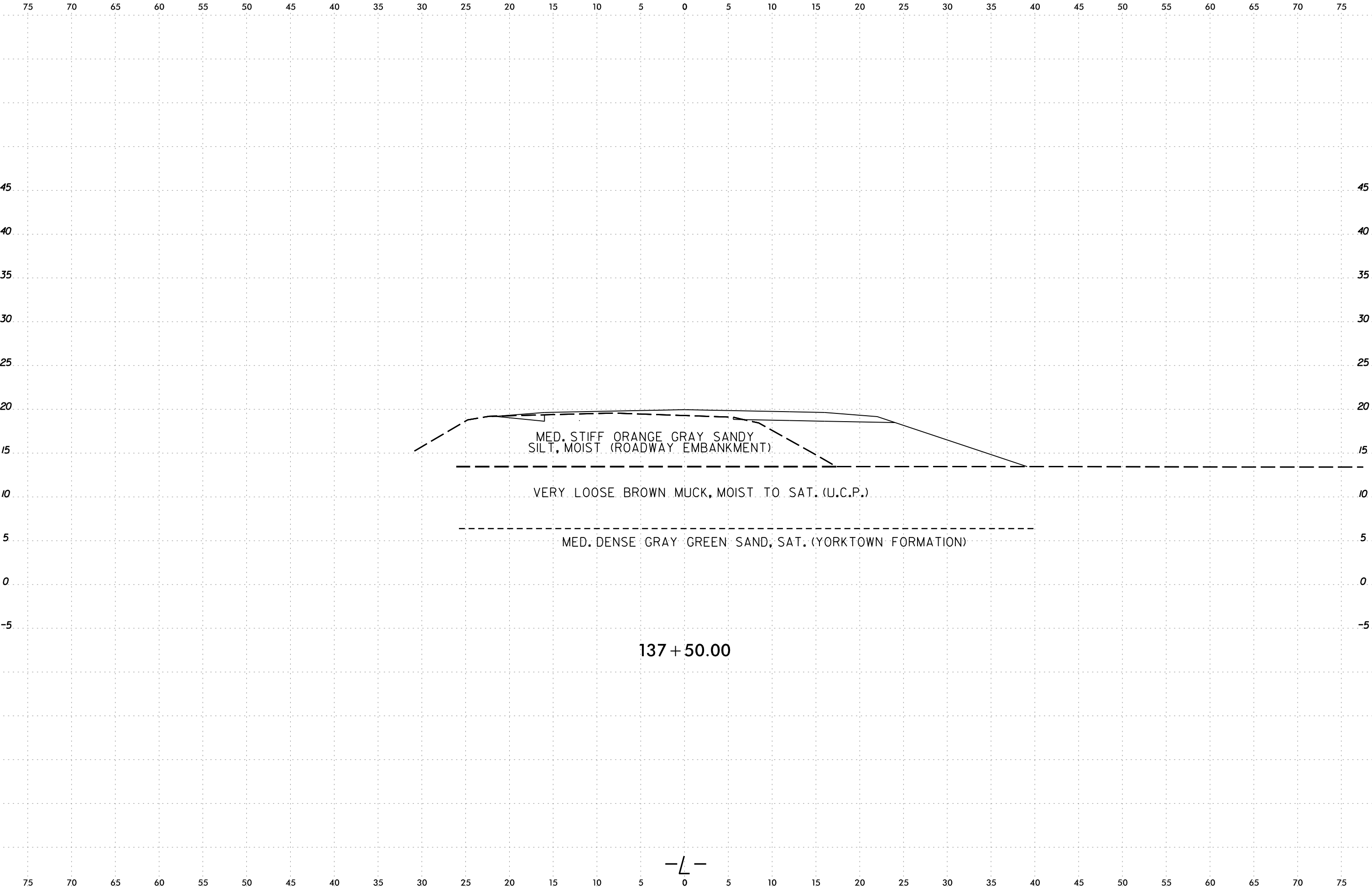
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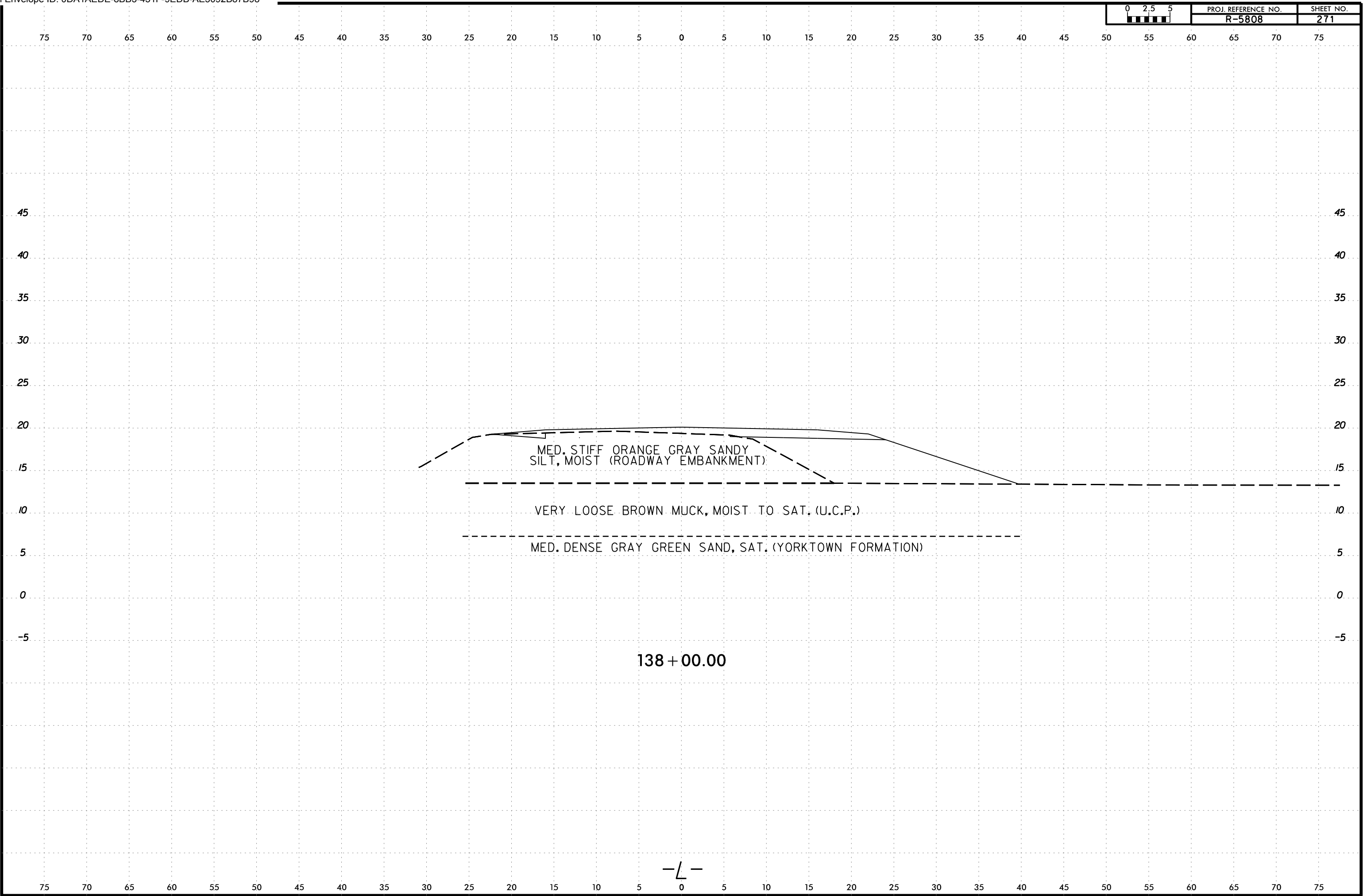


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	270

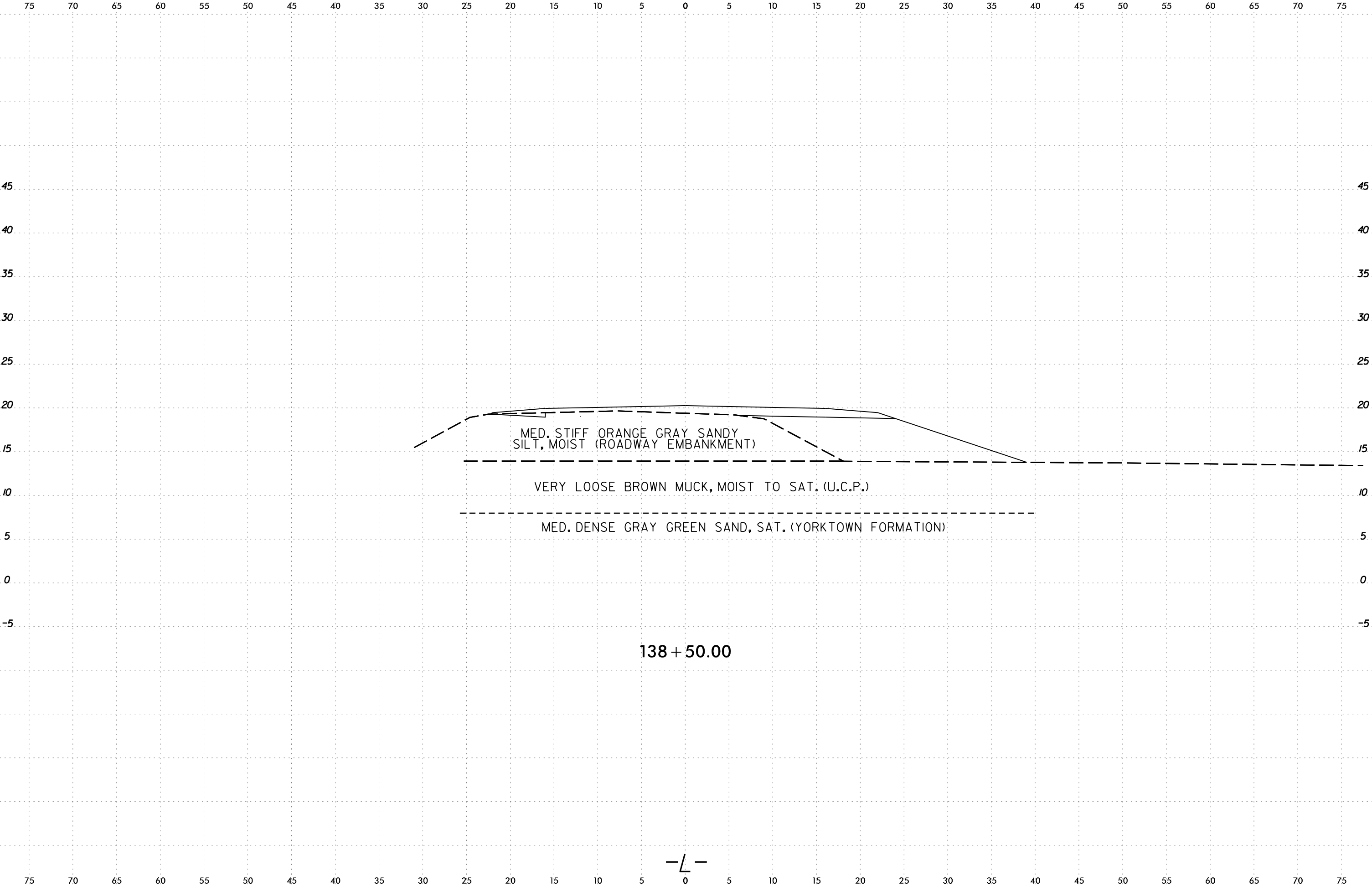




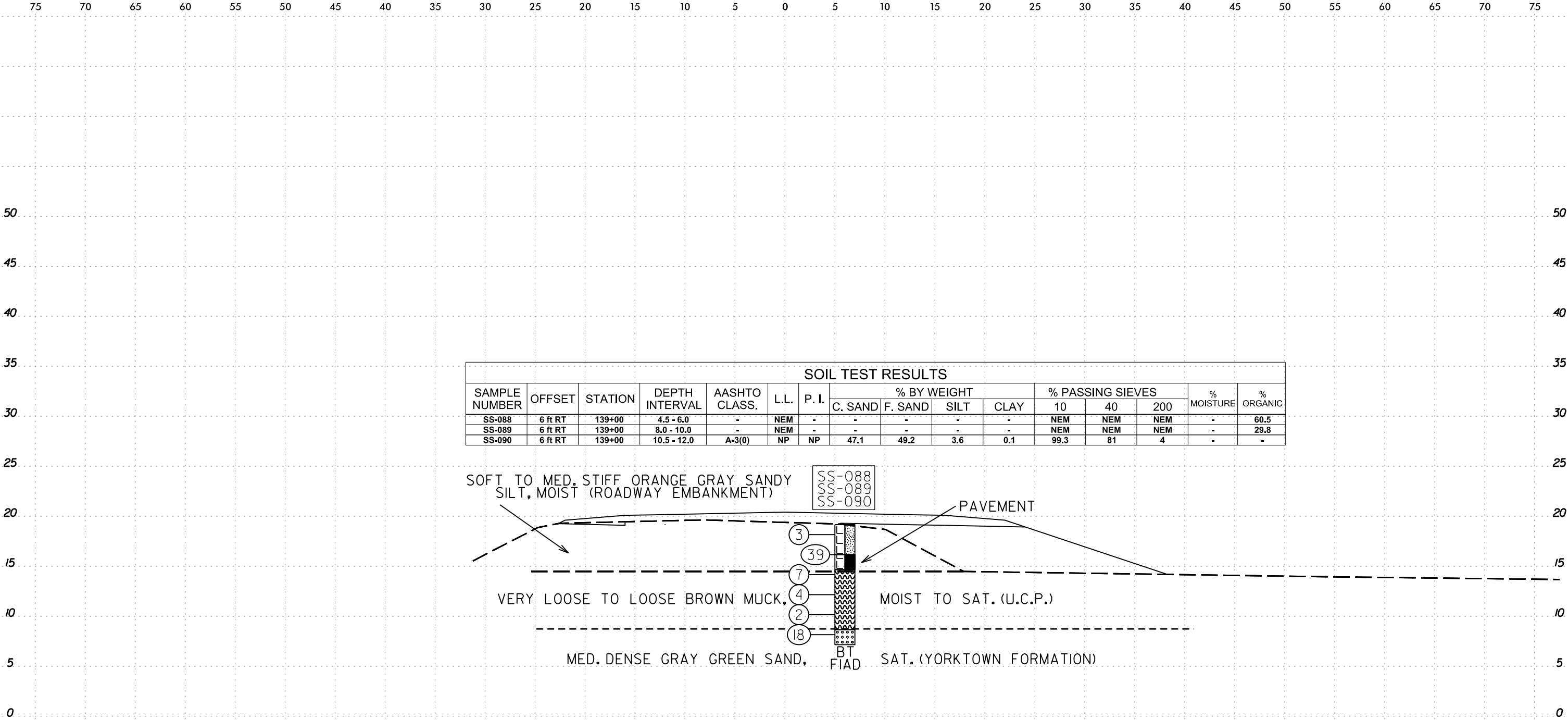
6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	272



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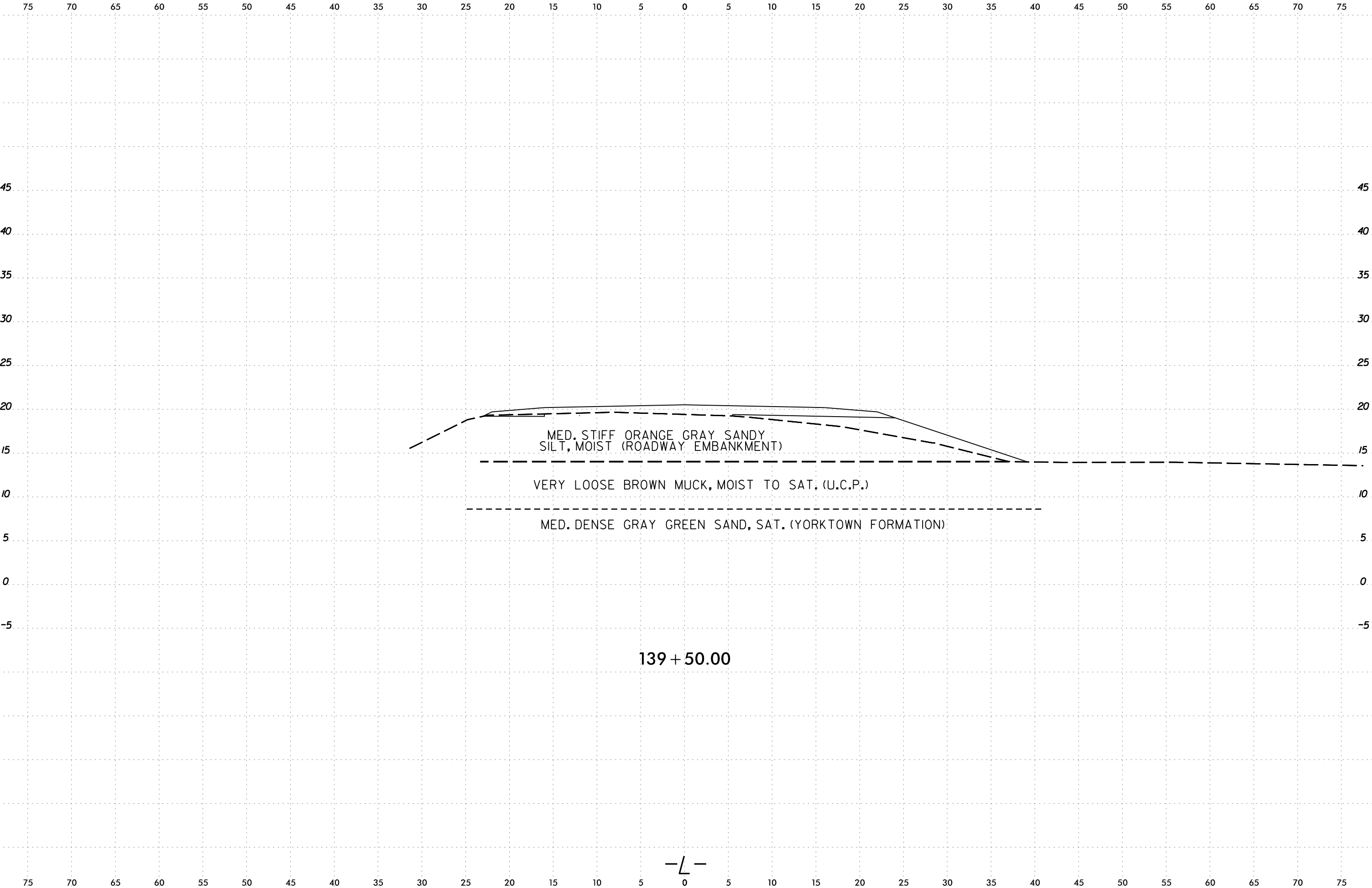
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-088	6 ft RT	139+00	4.5 - 6.0	-	NEM	-	-	-	-	-	NEM	NEM	NEM	-	60.5
SS-089	6 ft RT	139+00	8.0 - 10.0	-	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

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Lee Stone AT LSTONE-CAD-PC

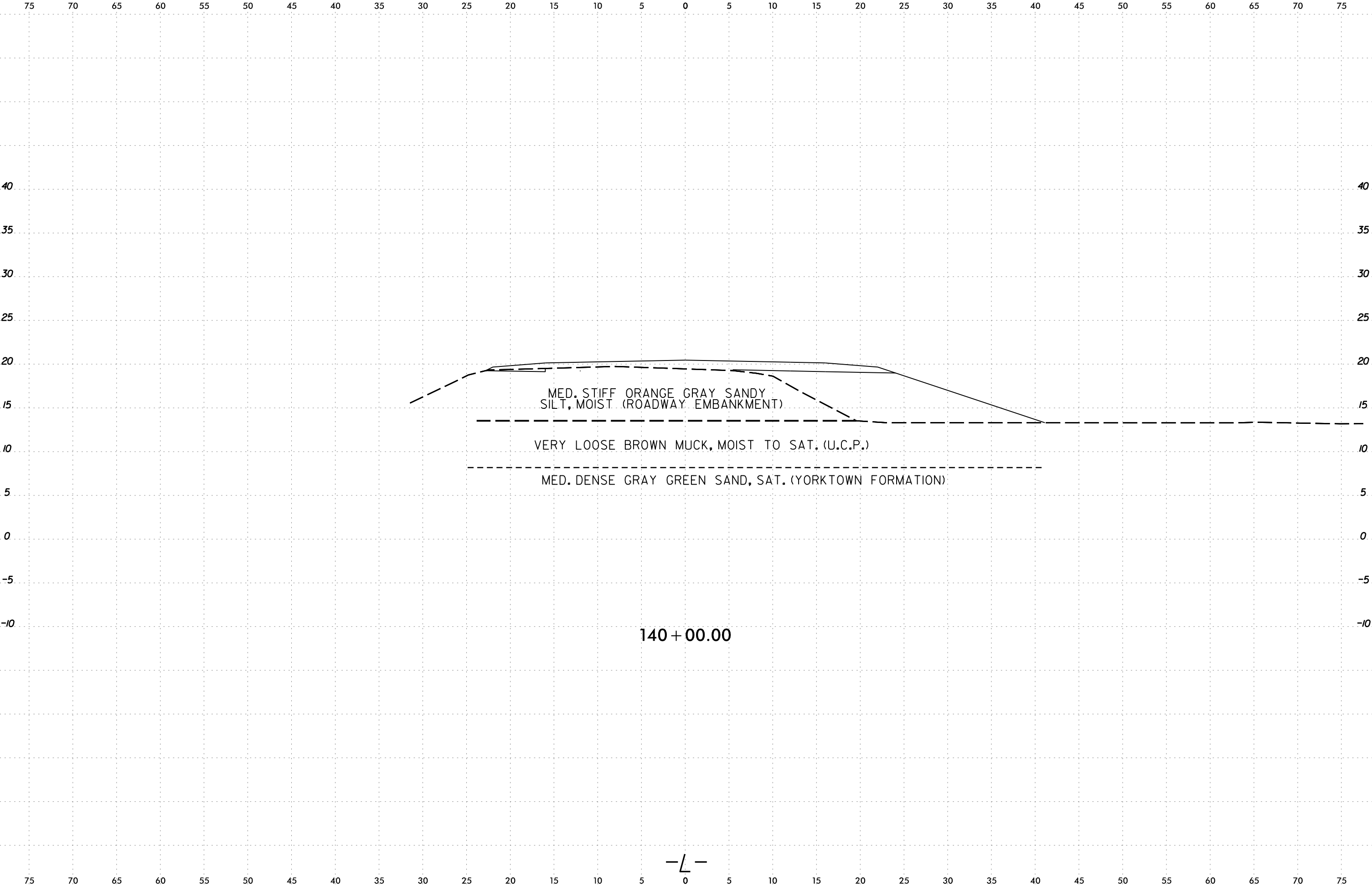
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	R-5808	274



6/23/16

10-JAN-2023 11:56
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Lee Stone AT LSTONE-CAD-PC

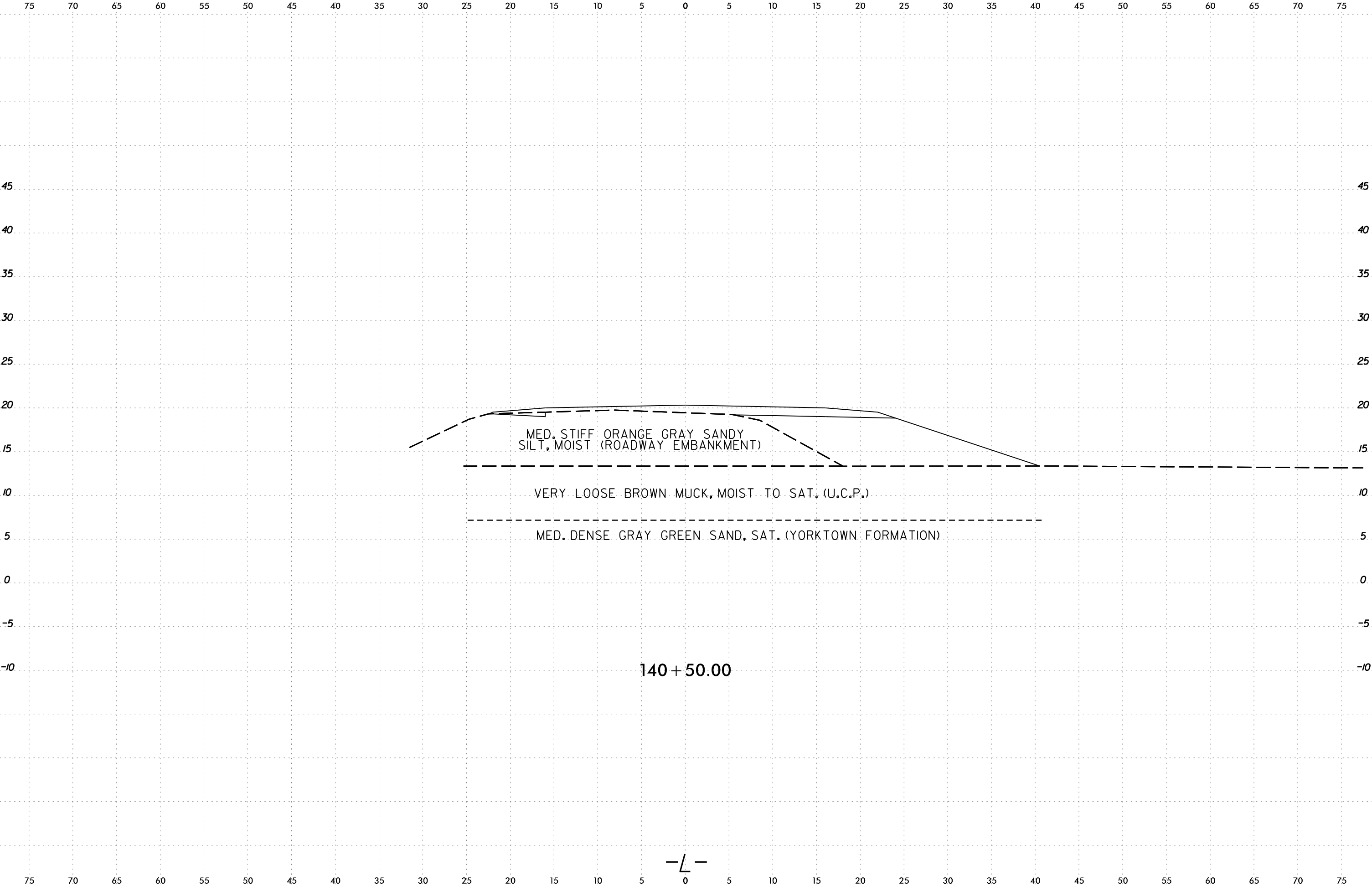
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	R-5808	275



6/23/16

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Lee Stone AT LSTONE-CAD-PC

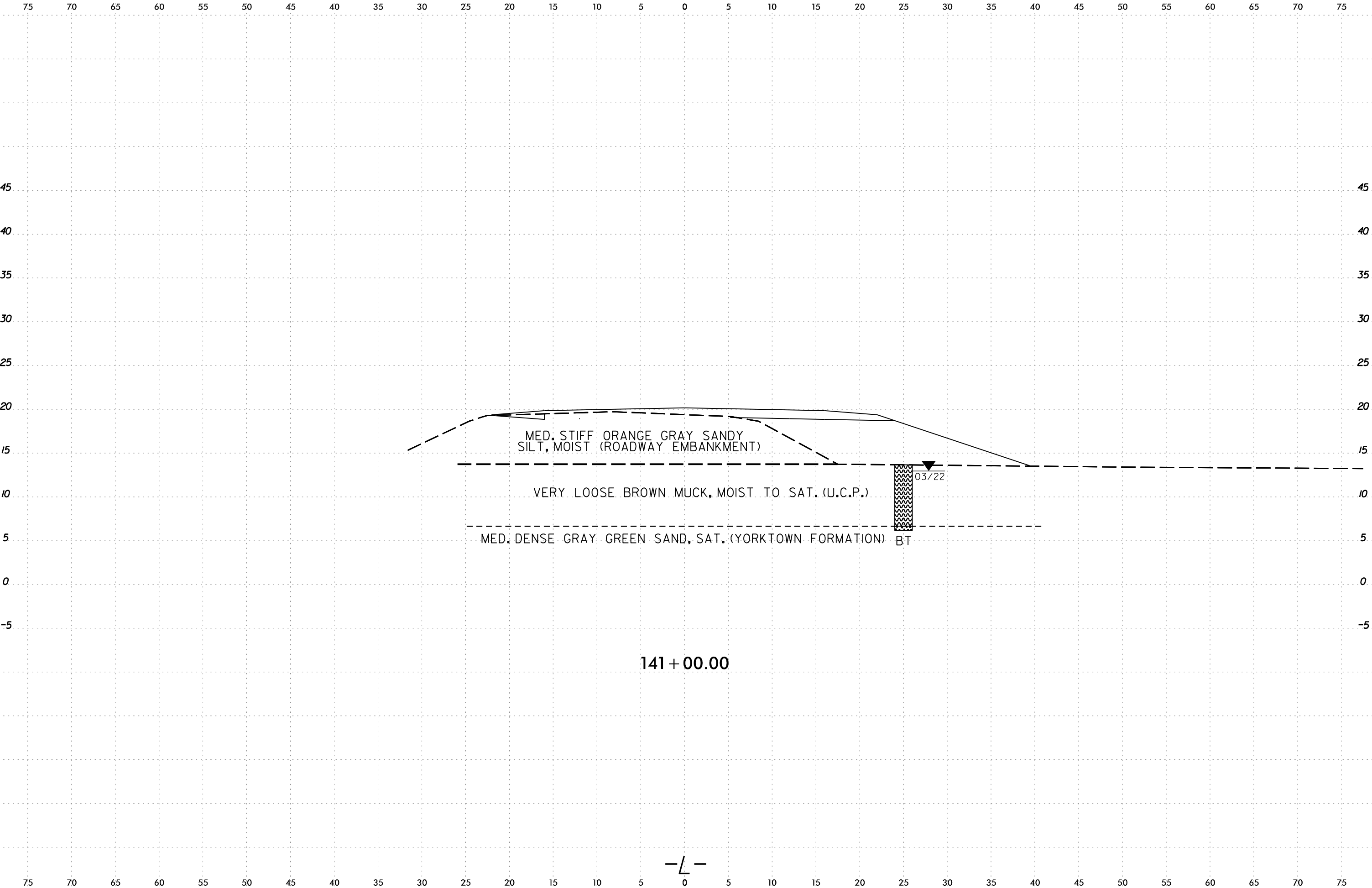
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	R-5808	276



6/23/16

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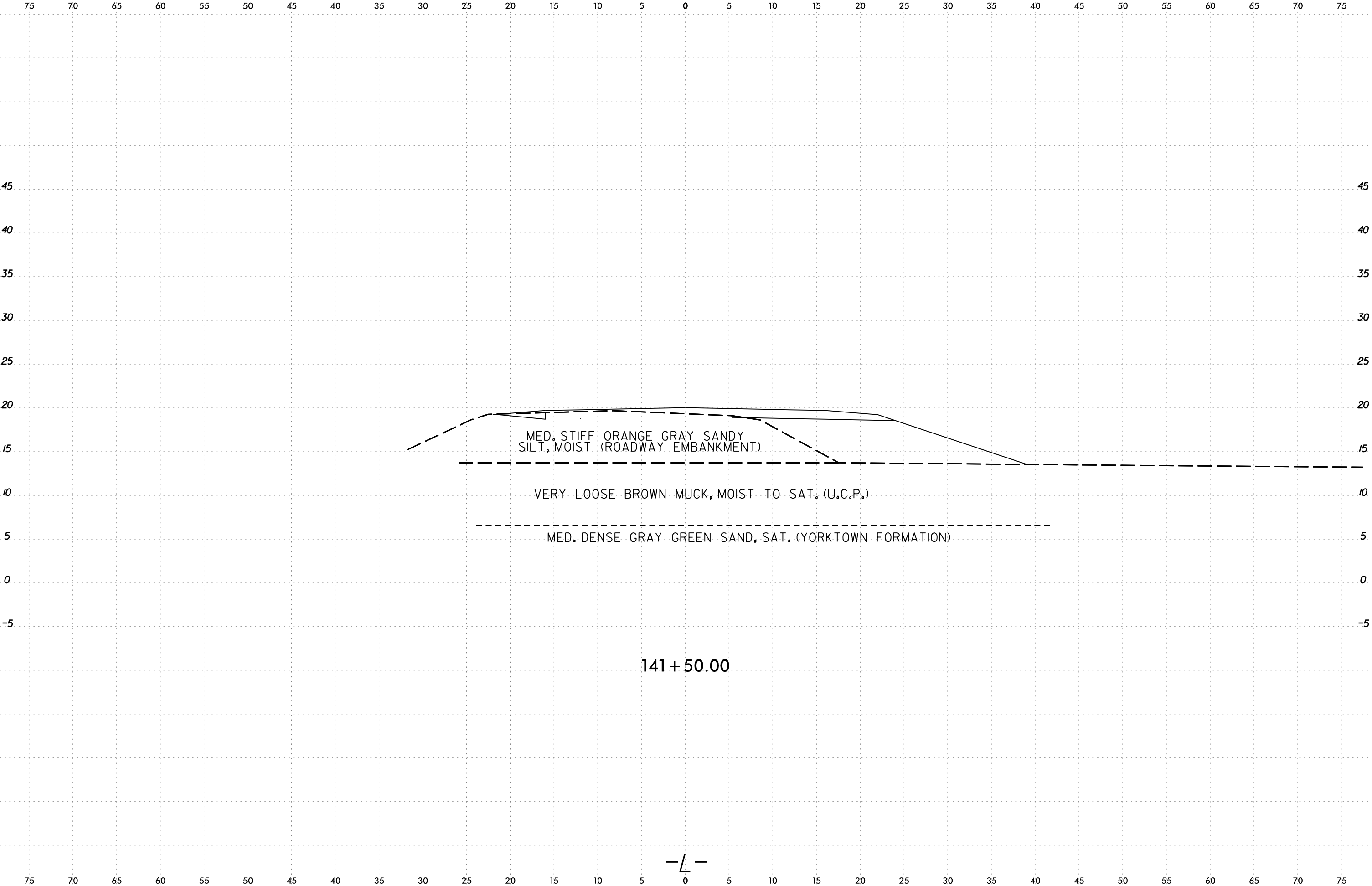
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Lee Stone AT LSTONE-CAD-PC

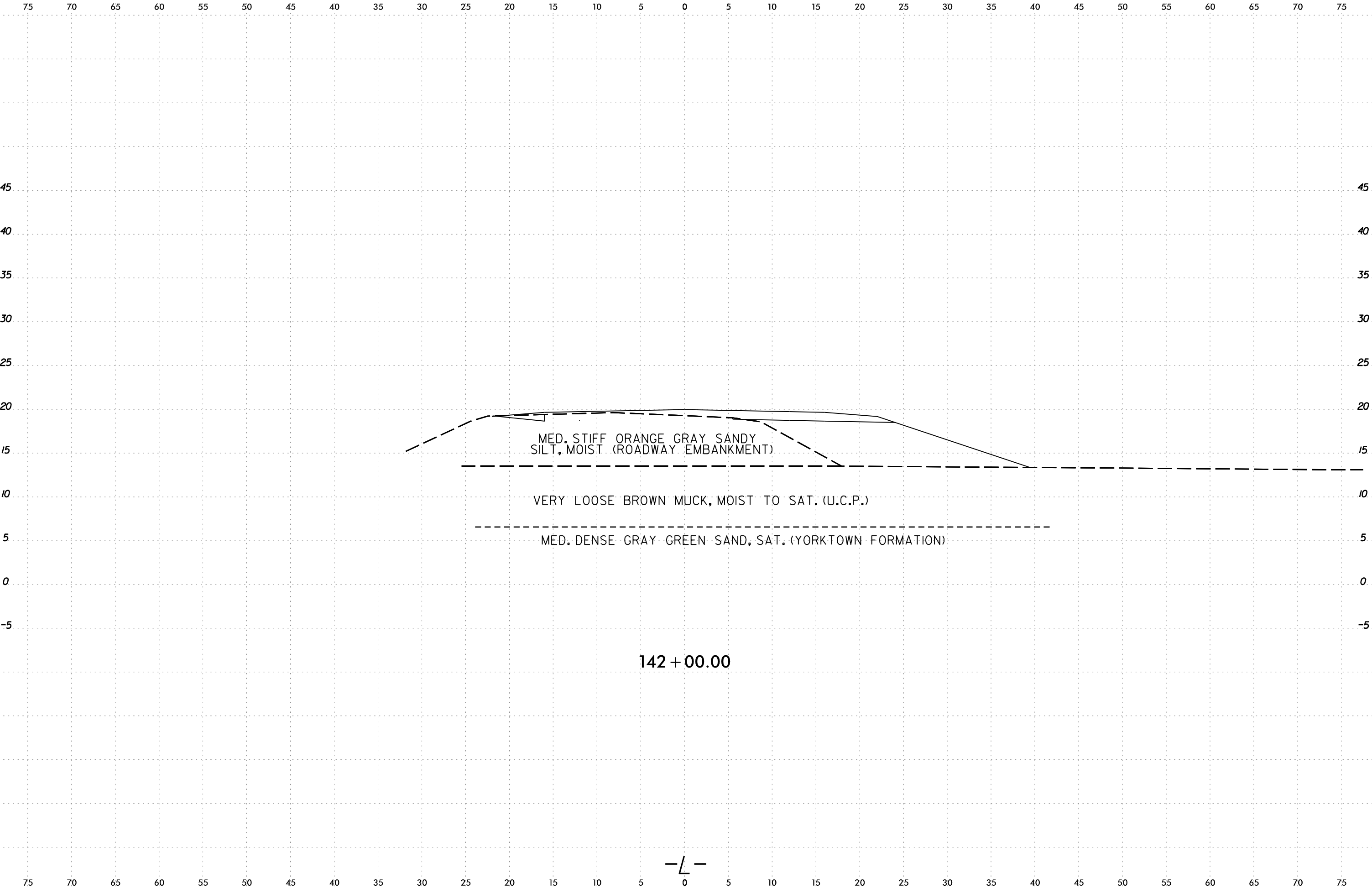
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	R-5808	278



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Lee Stone AT LSTONE-CAD-PC

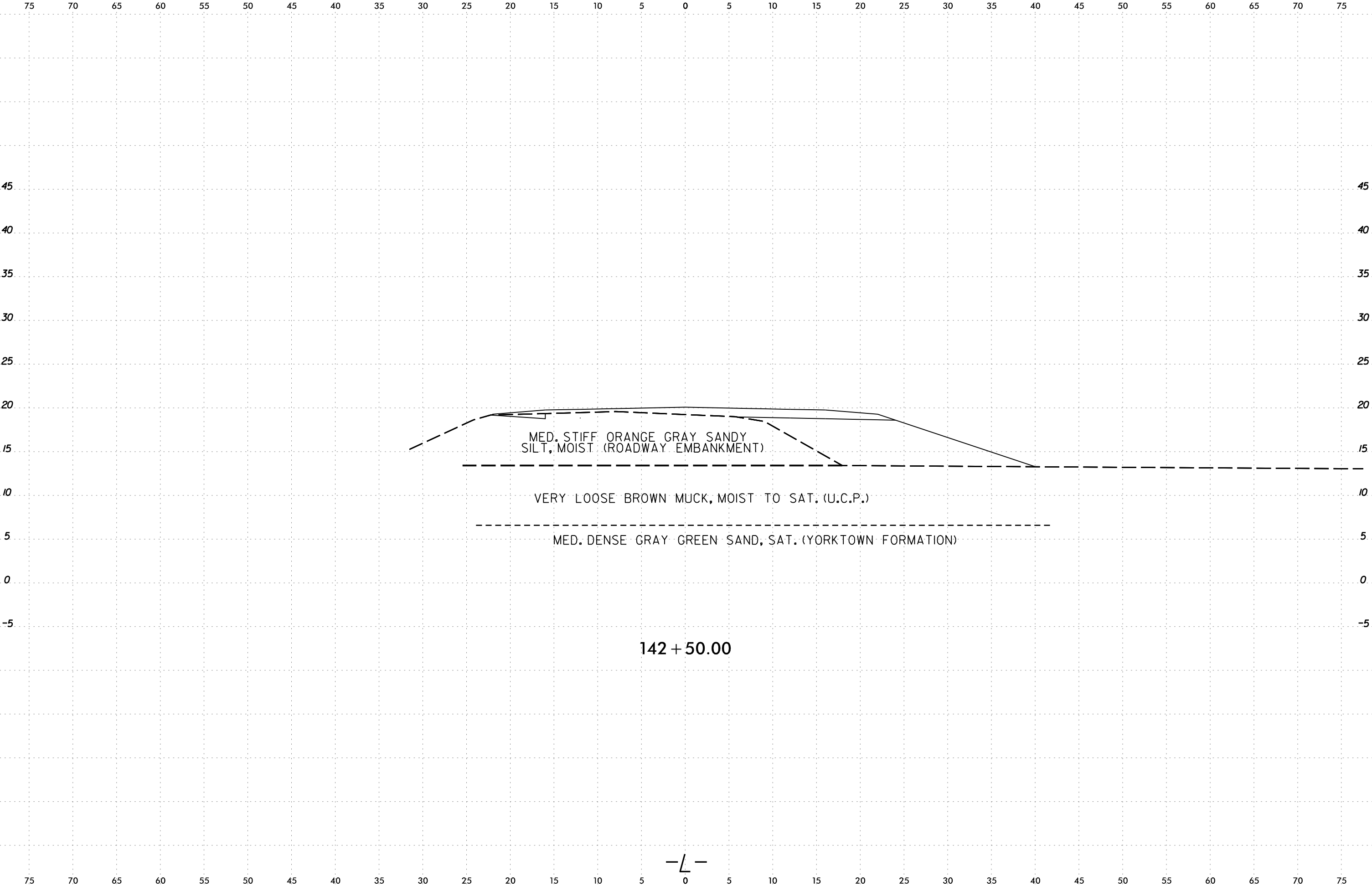
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

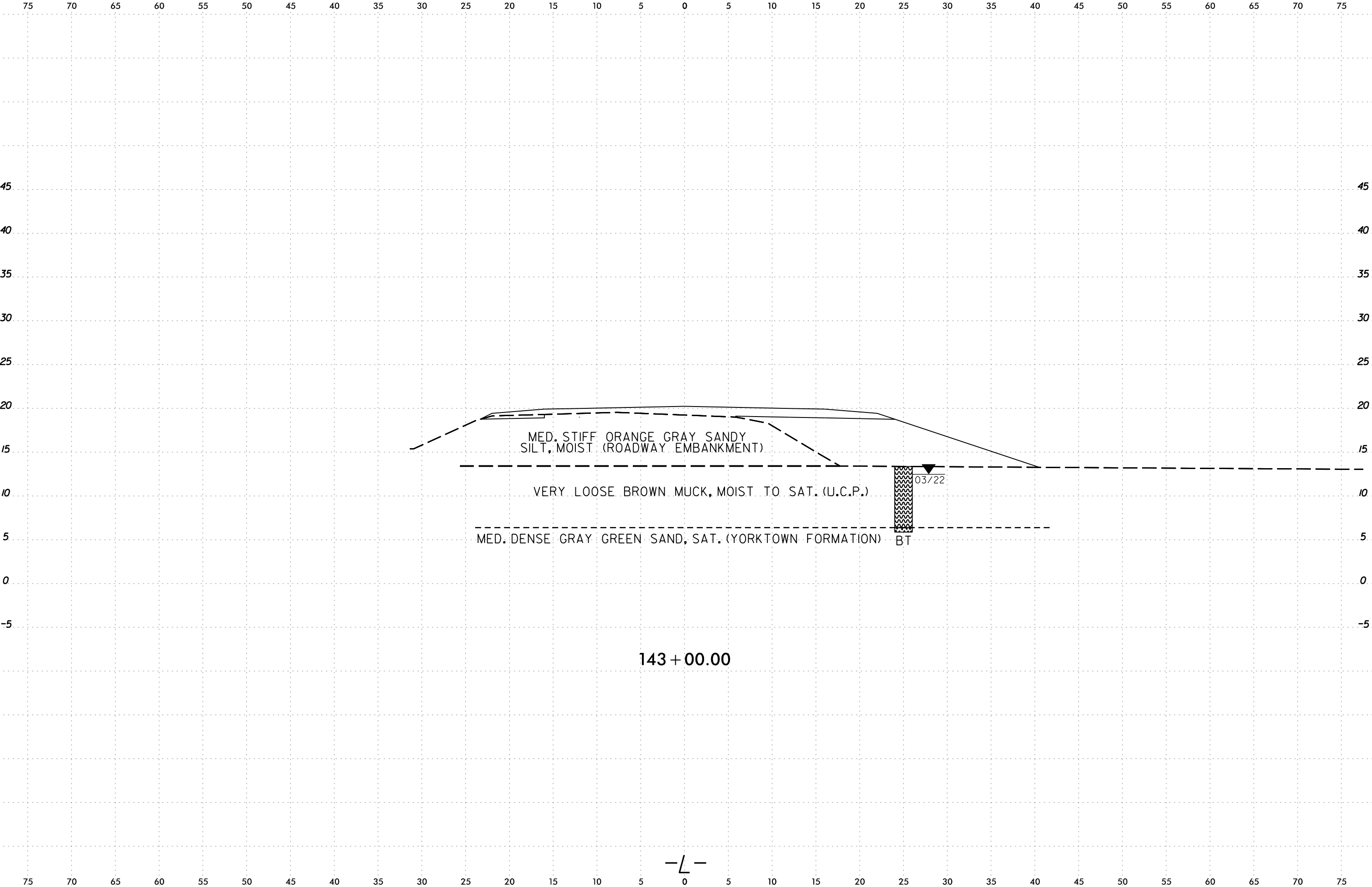
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

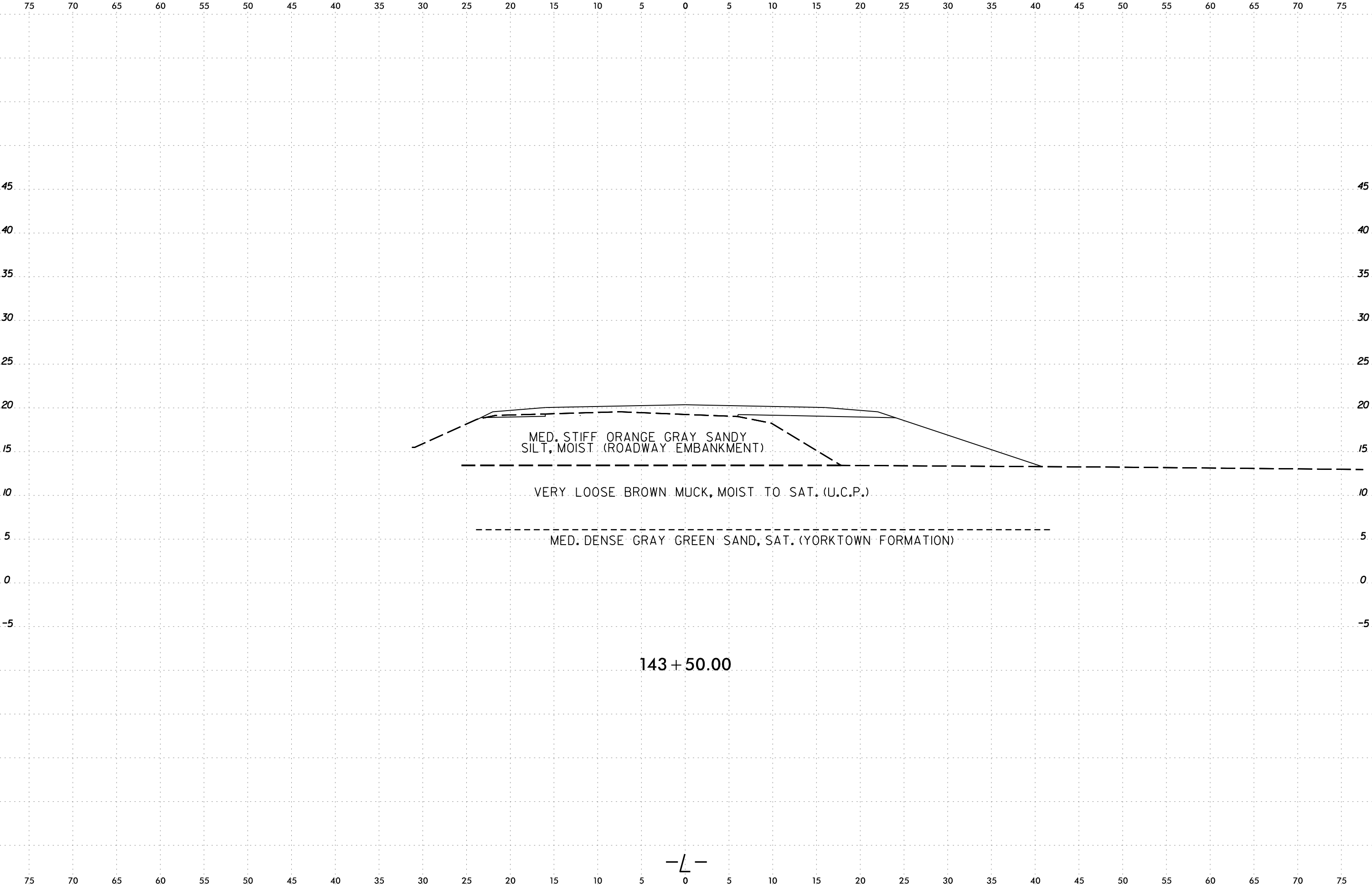
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	R-5808	281



6/23/16

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Lee Stone AT LSTONE-CAD-PC

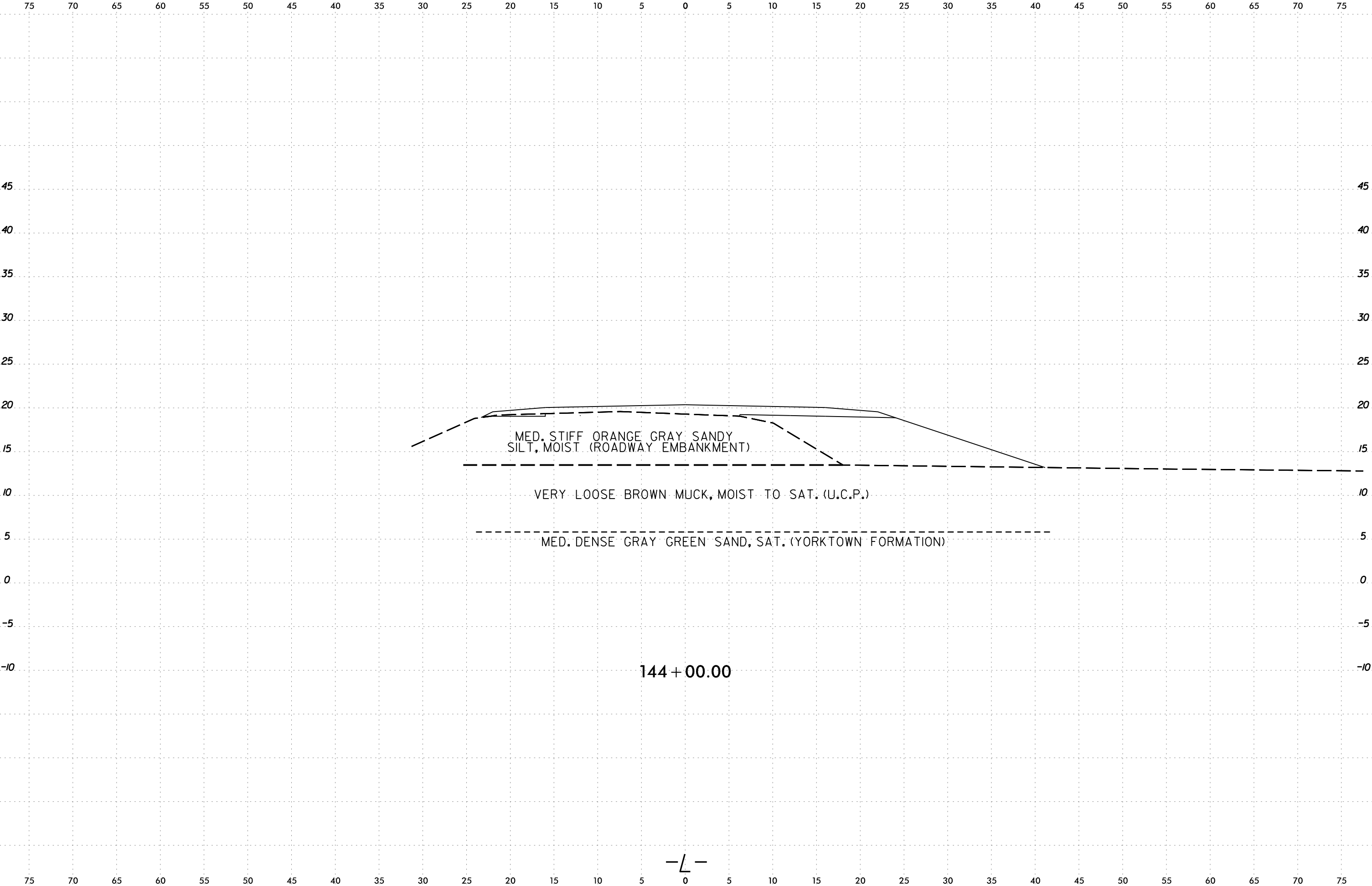
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	R-5808	282



6/23/16

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Lee Stone AT LSTONE-CAD-PC

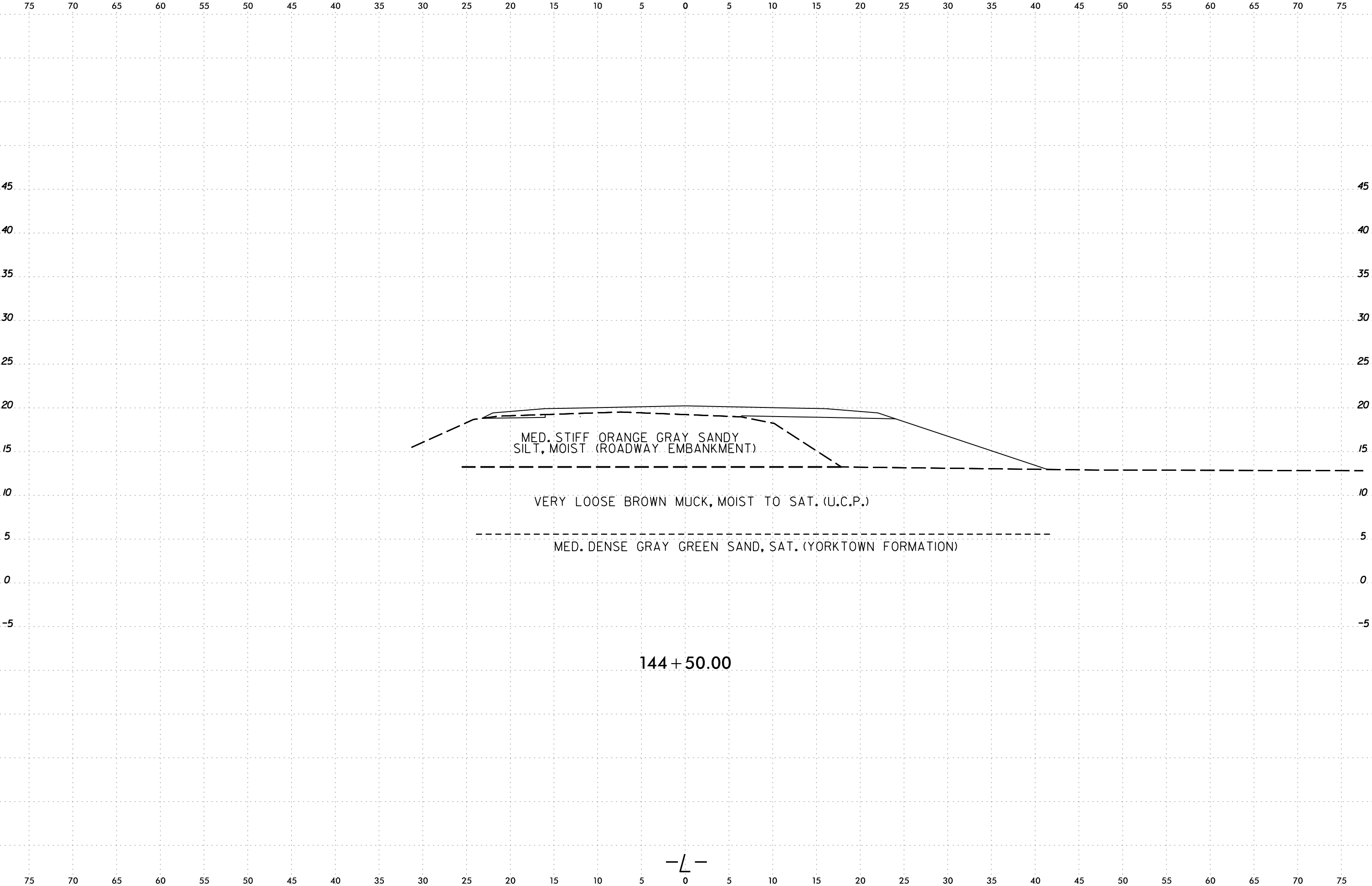
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	R-5808	283



6/23/16

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Lee Stone AT LSTONE-CAD-PC

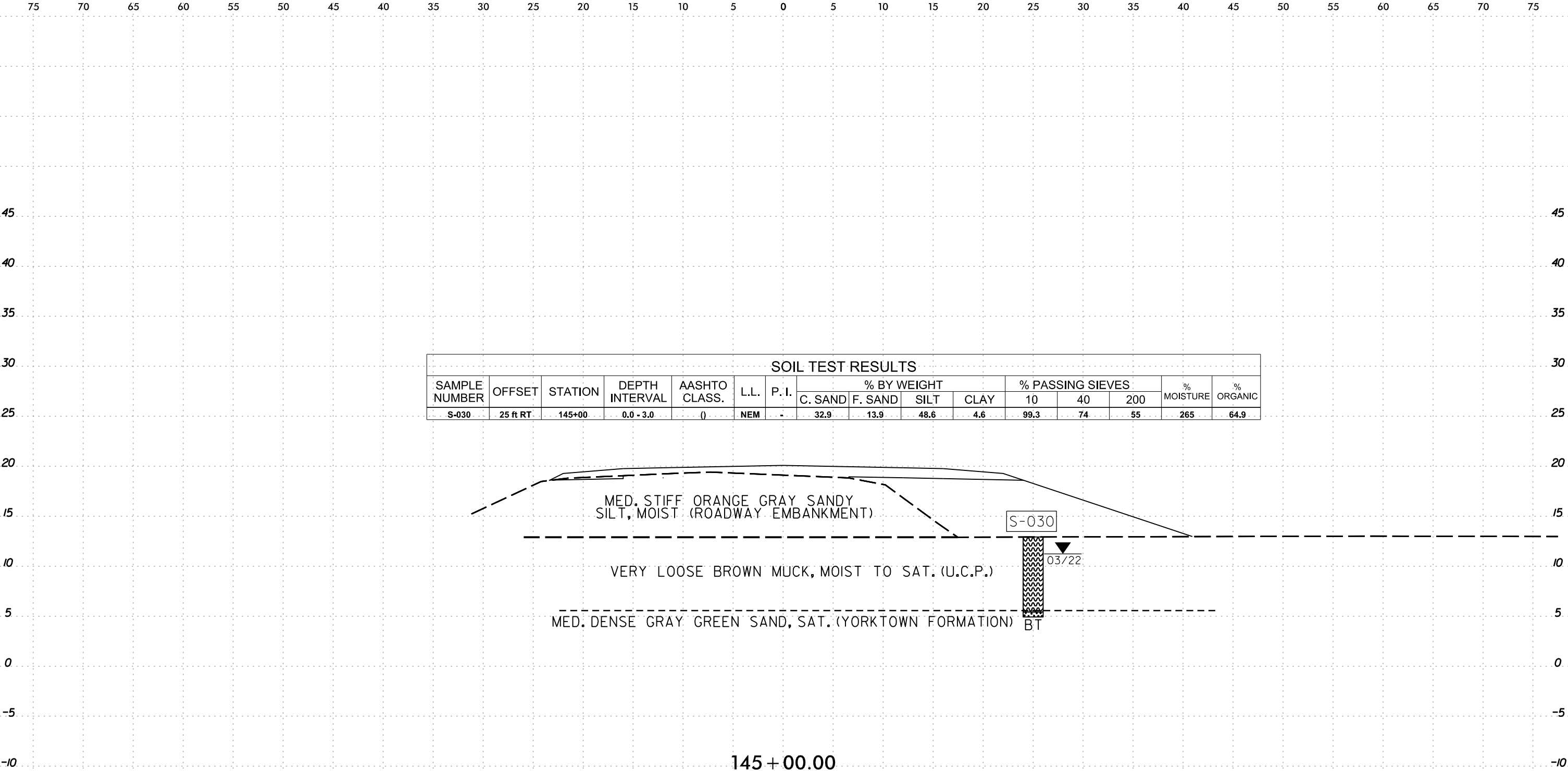
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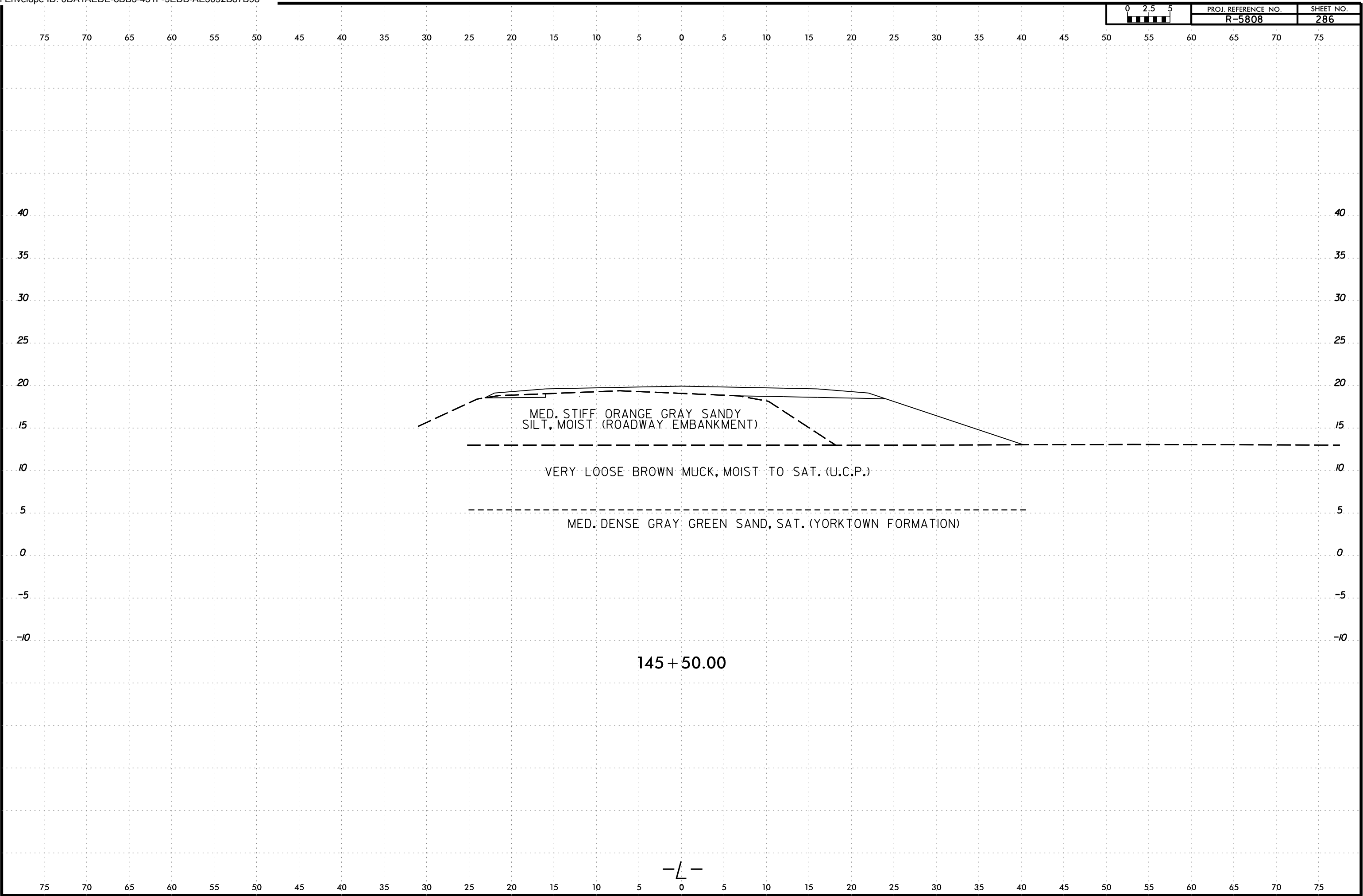
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	285



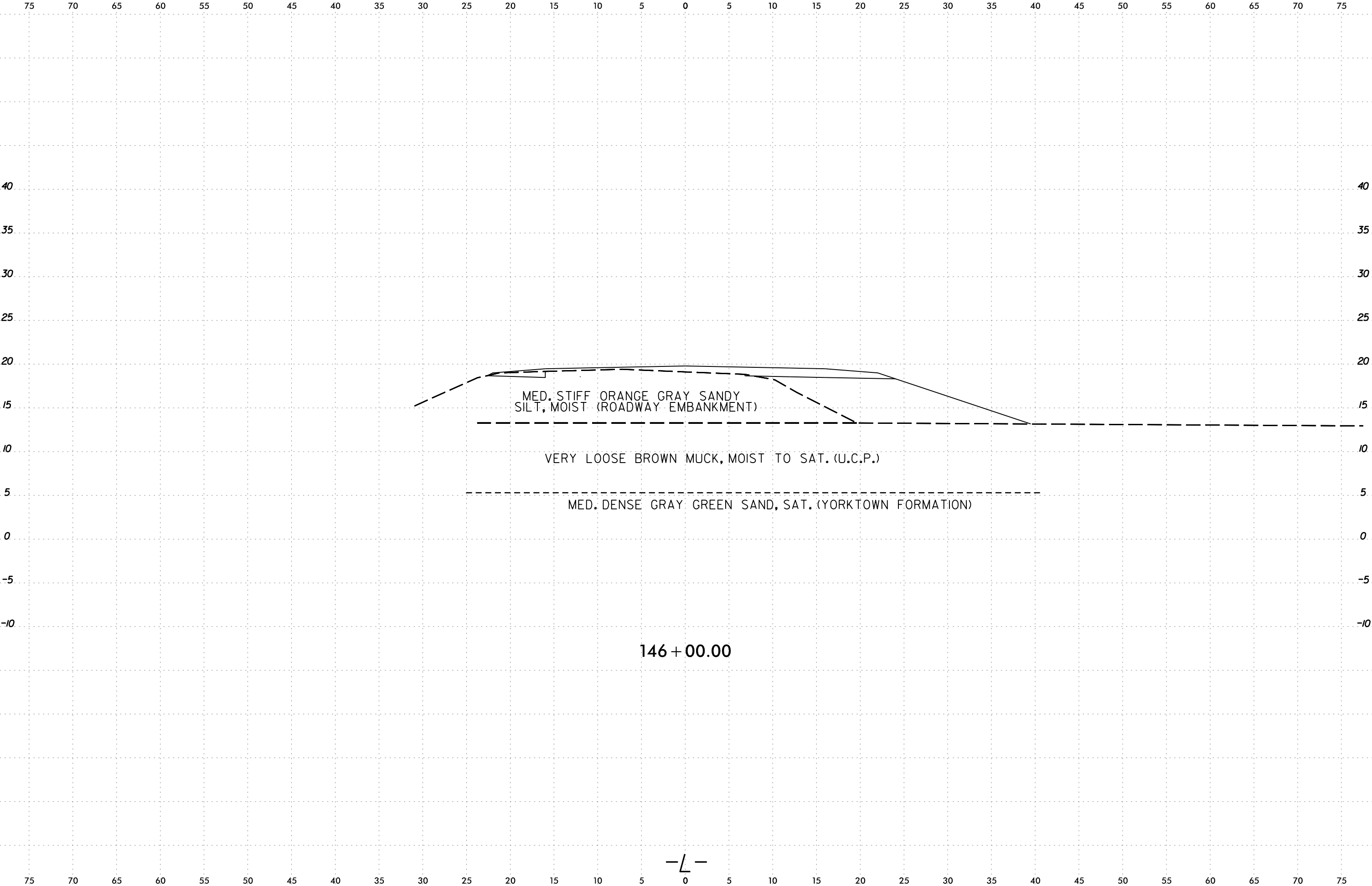
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Lee Stone AT LSTONE-CAD-PC

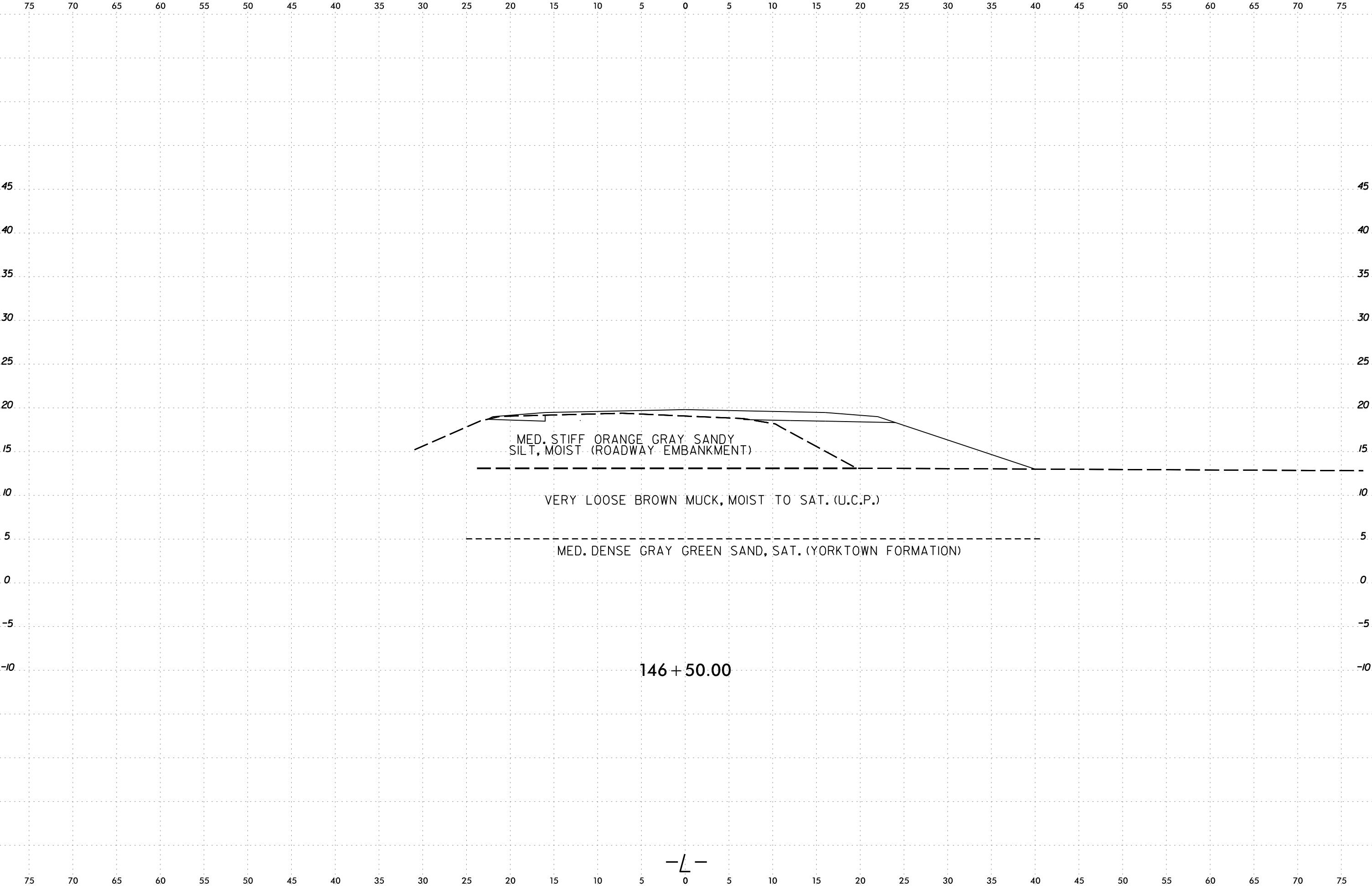
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Lee Stone AT LSTONE-CAD-PC

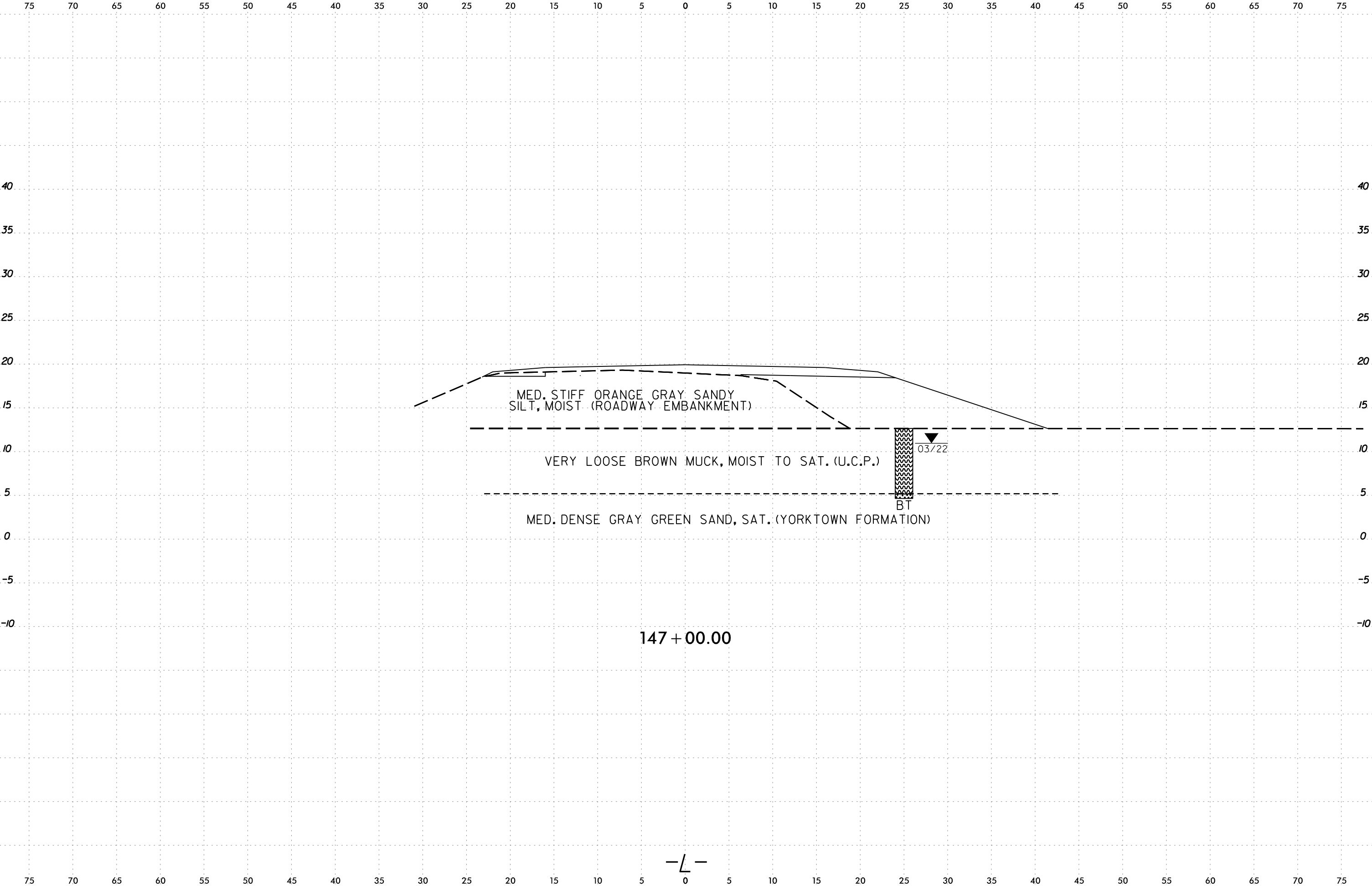
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Lee Stone AT LSTONE-CAD-PC

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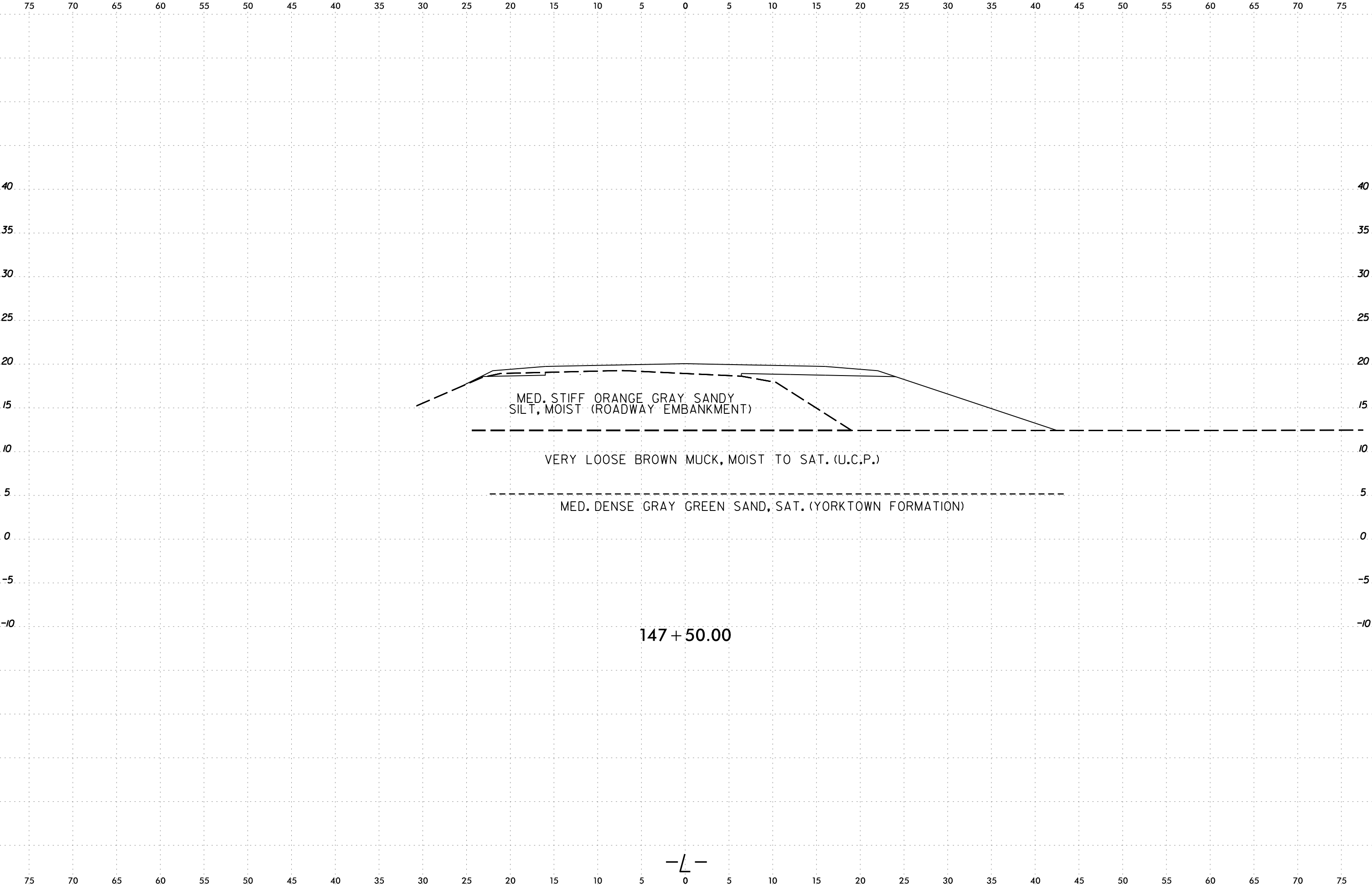


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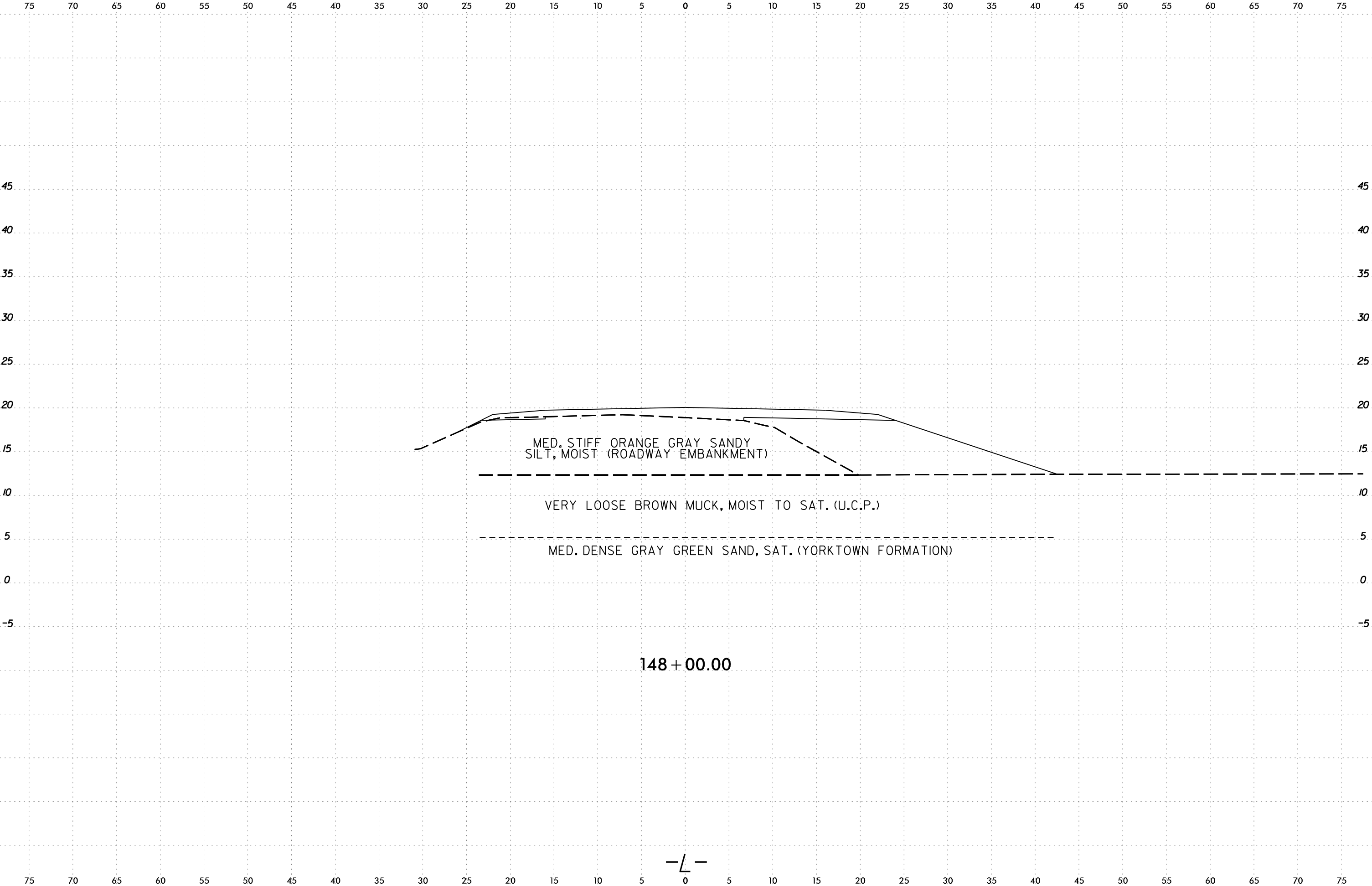
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Lee Stone AT LSTONE-CAD-PC

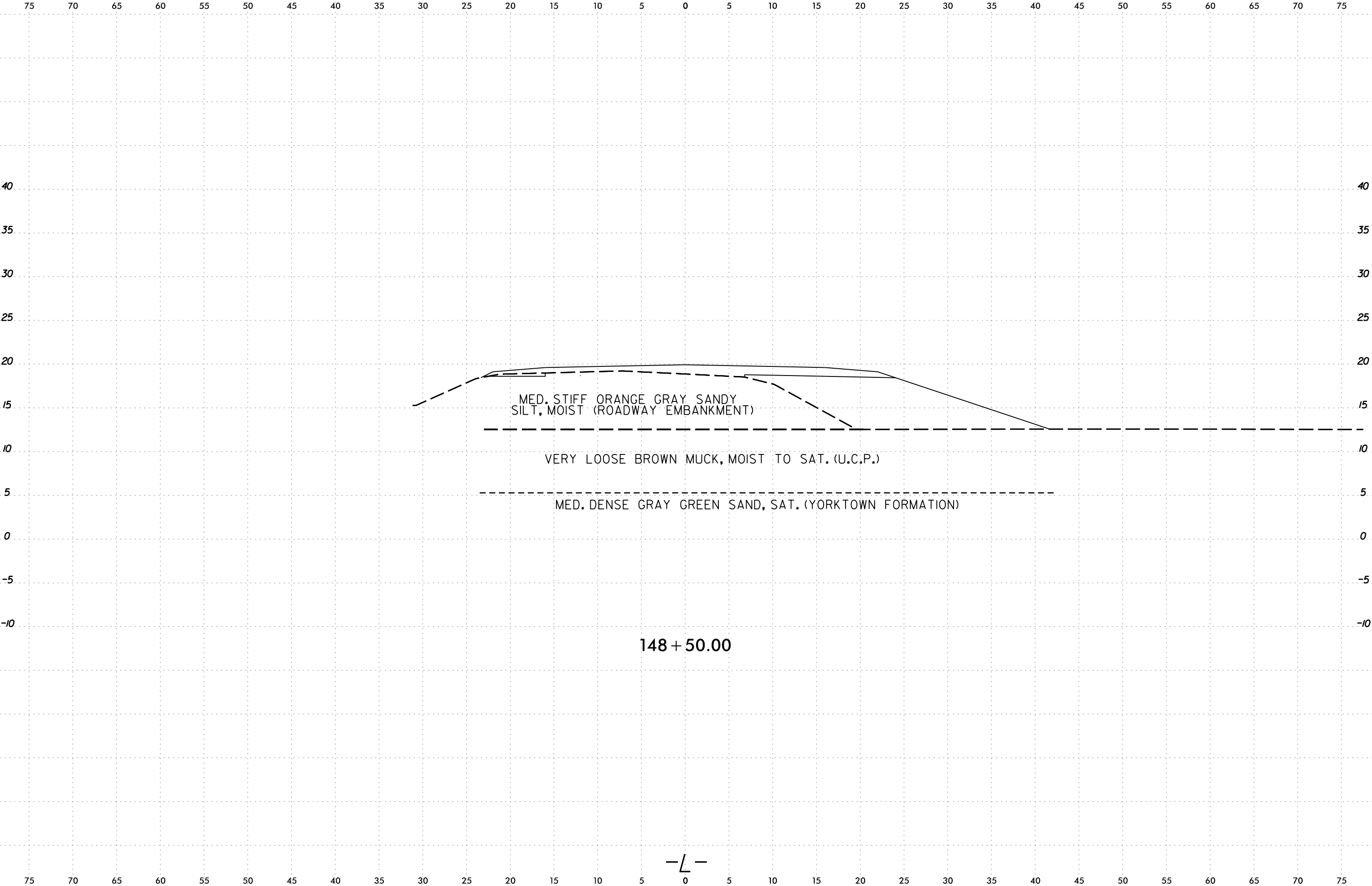
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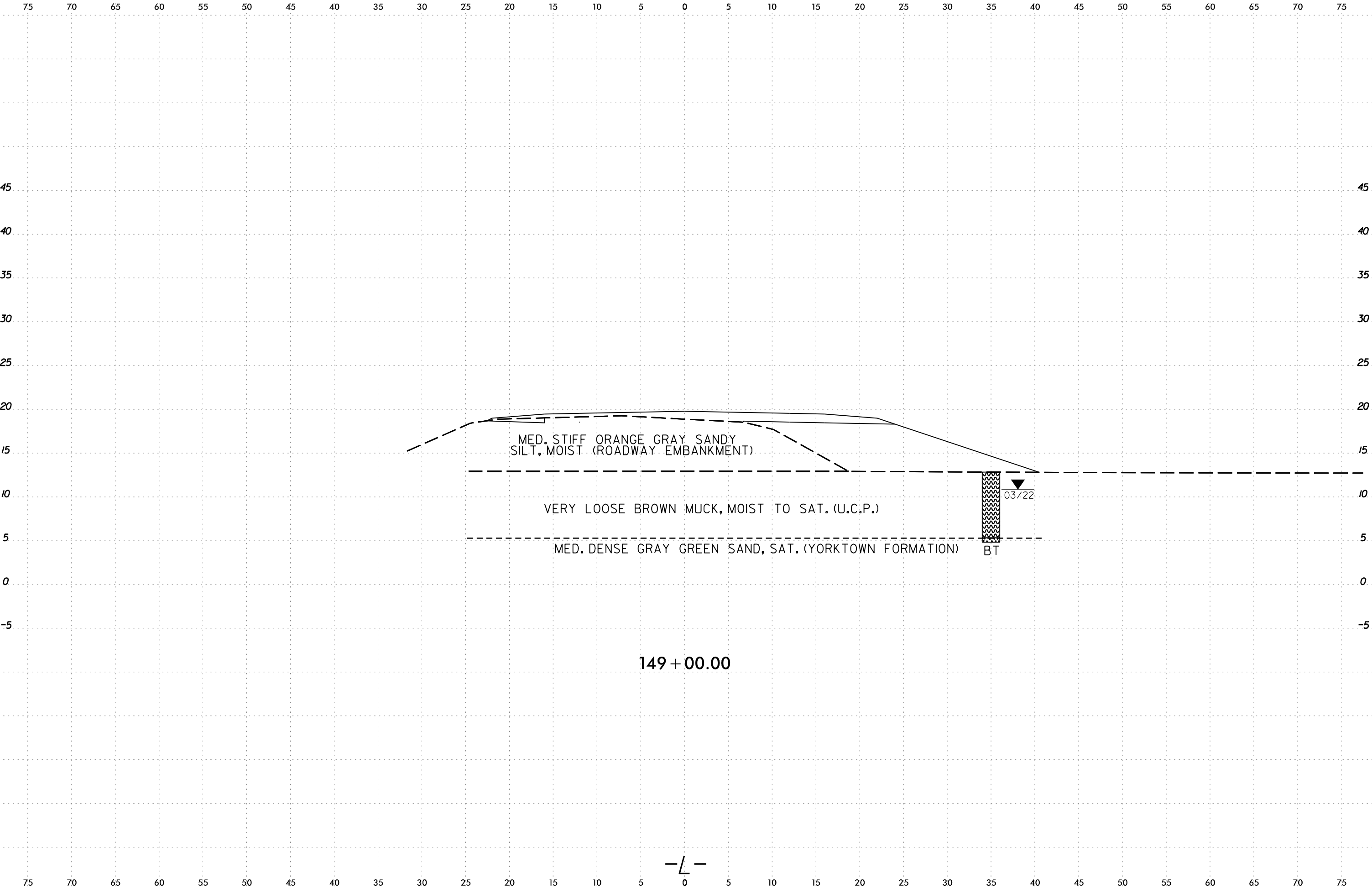
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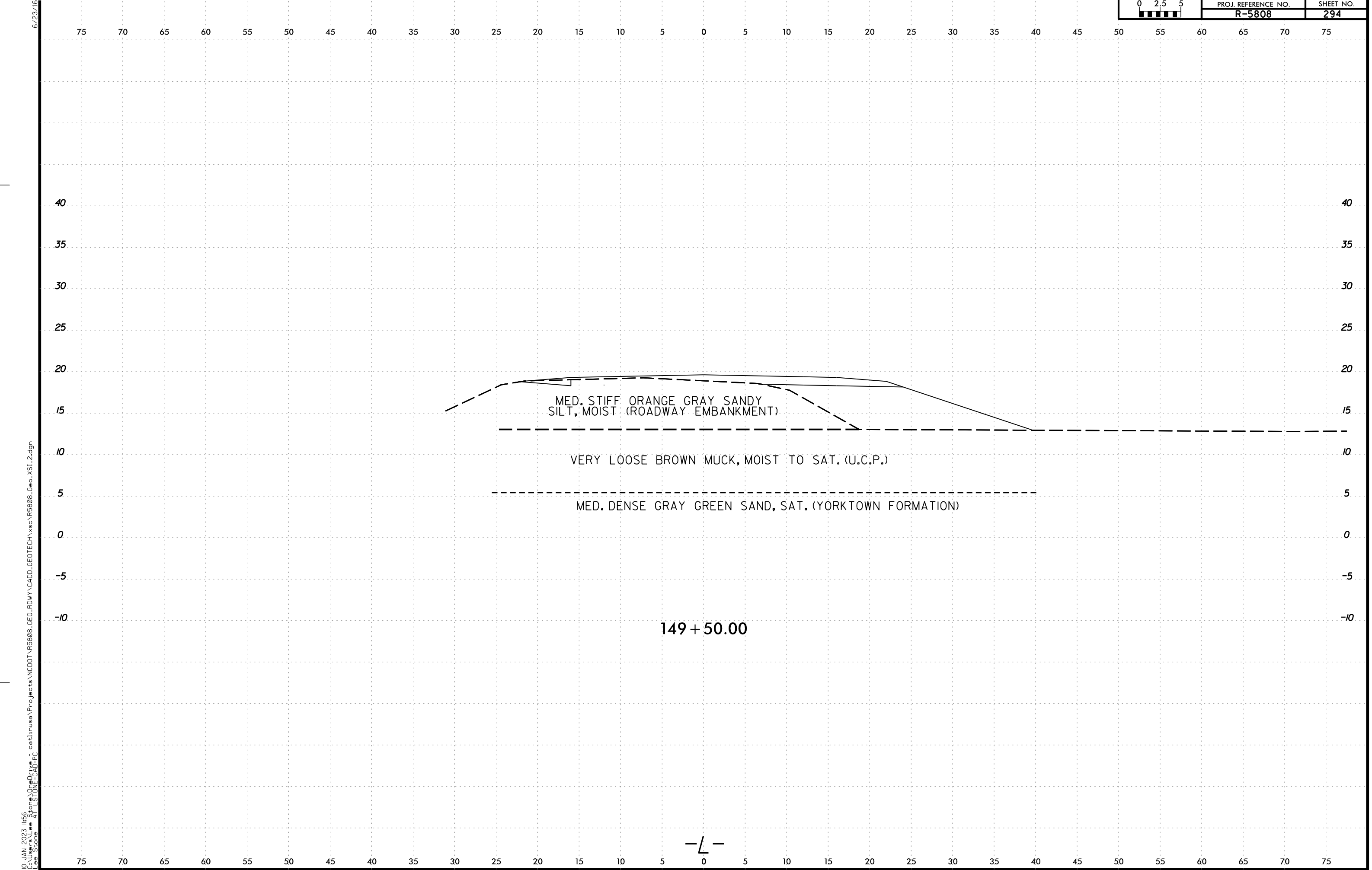


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Lee Stone AT LSTONE-CAD-PC

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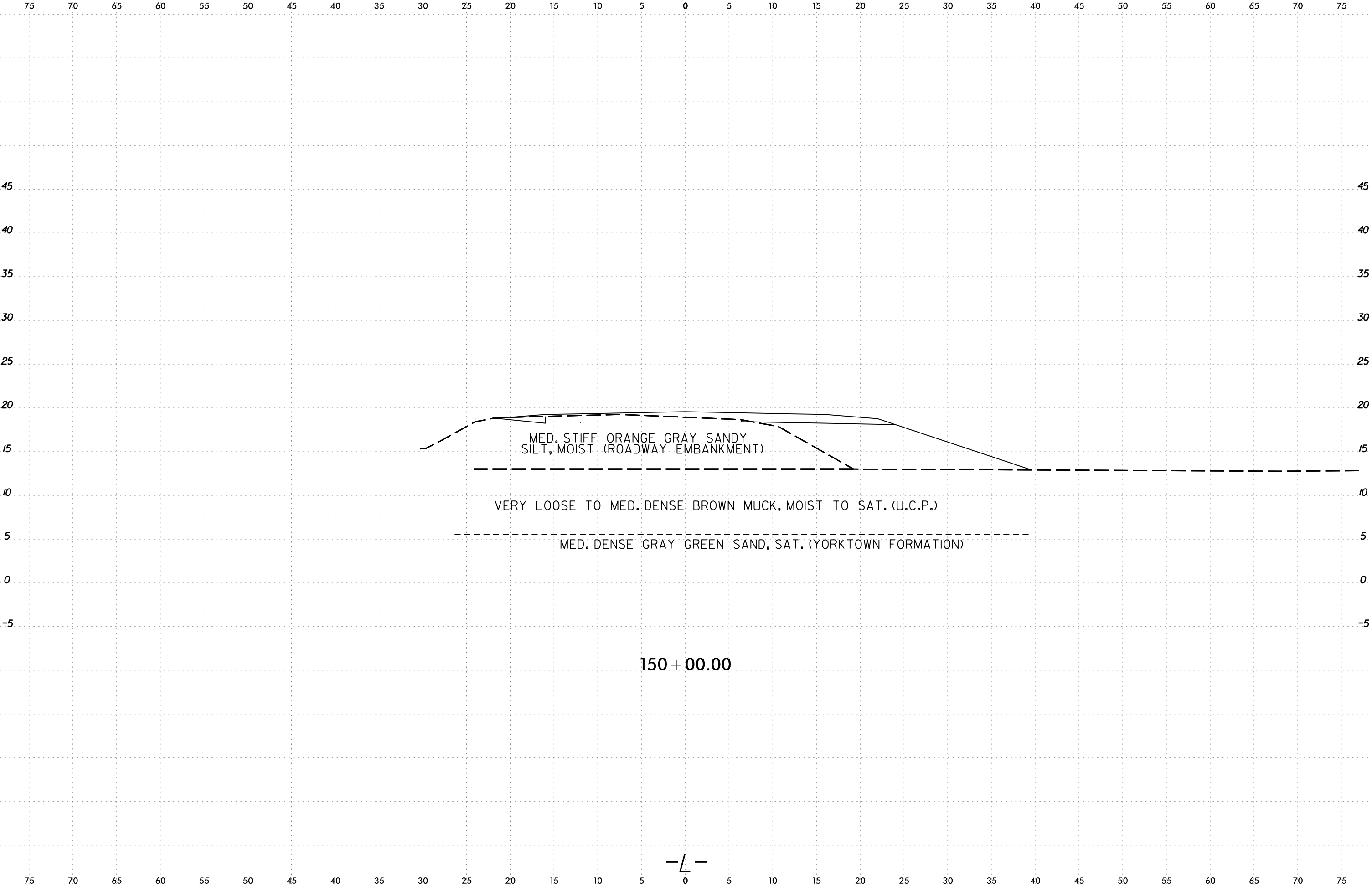




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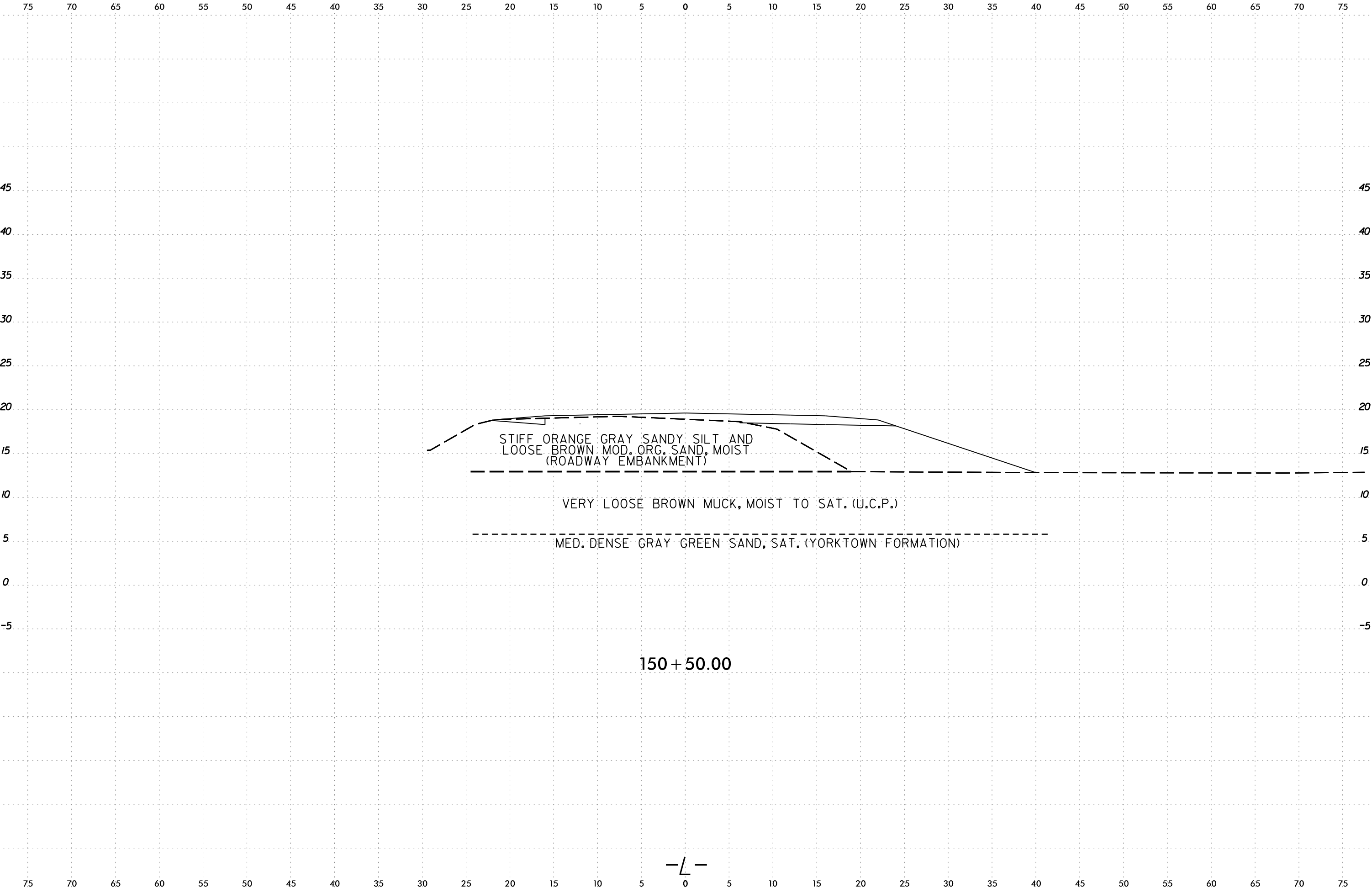
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	R-5808	295



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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	296



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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	297

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

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)

S-033

03/22

BT

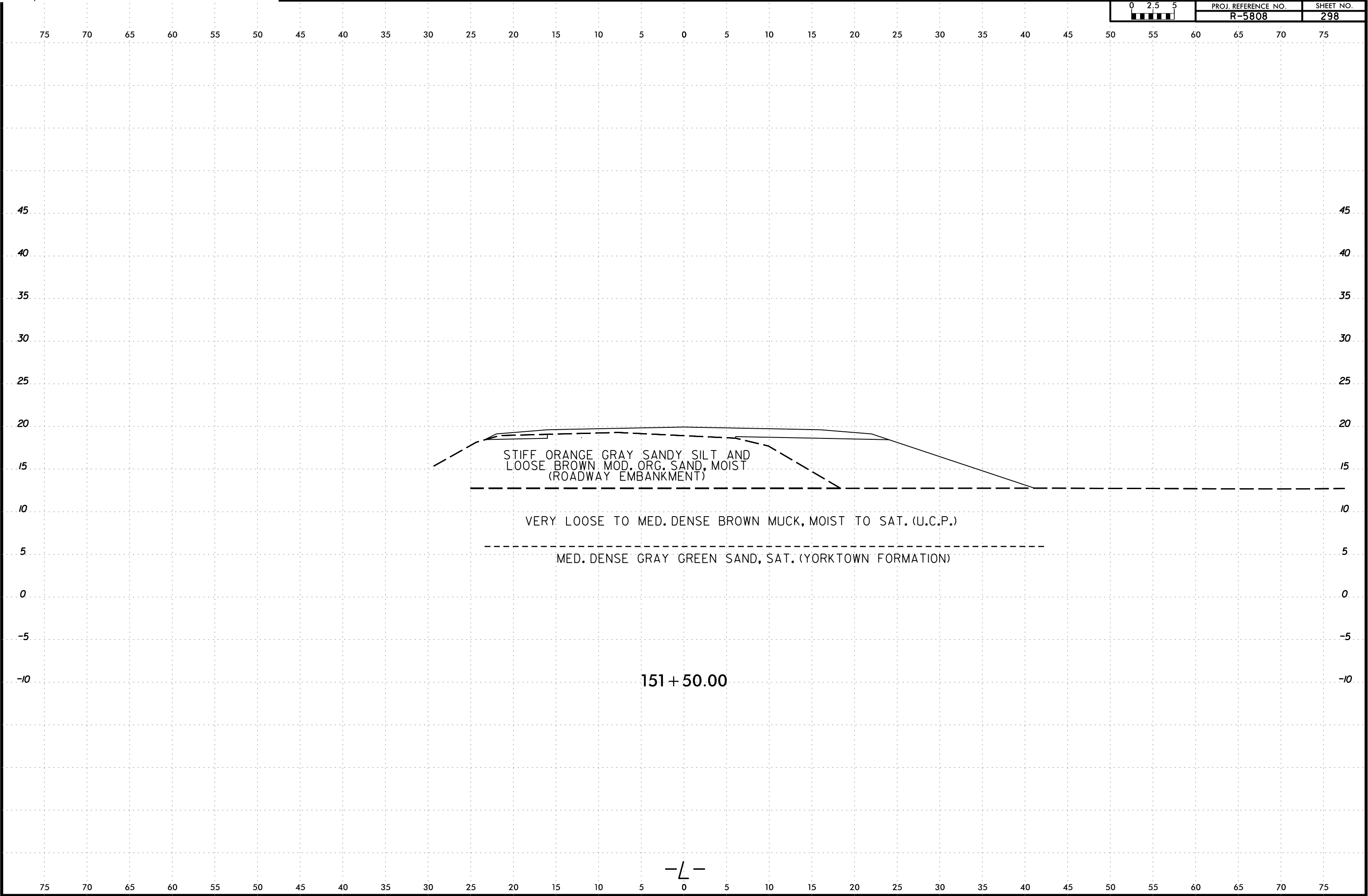
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	298

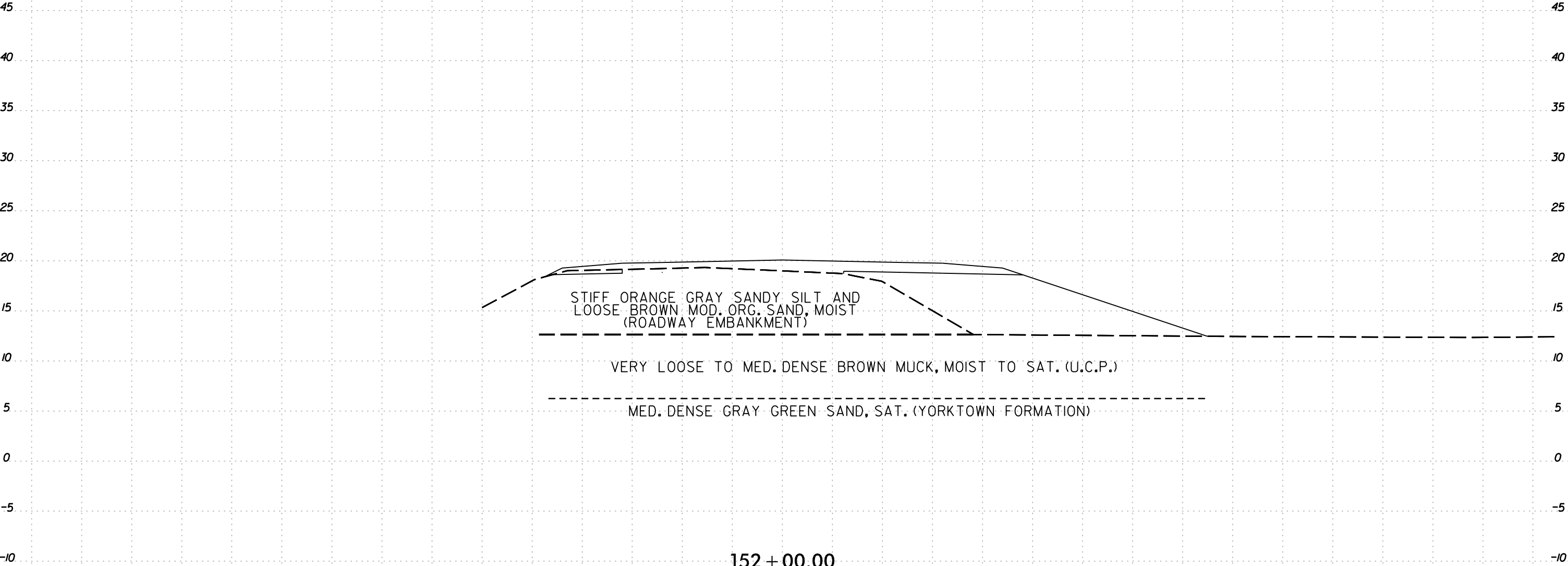


6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	299

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152 + 00.00

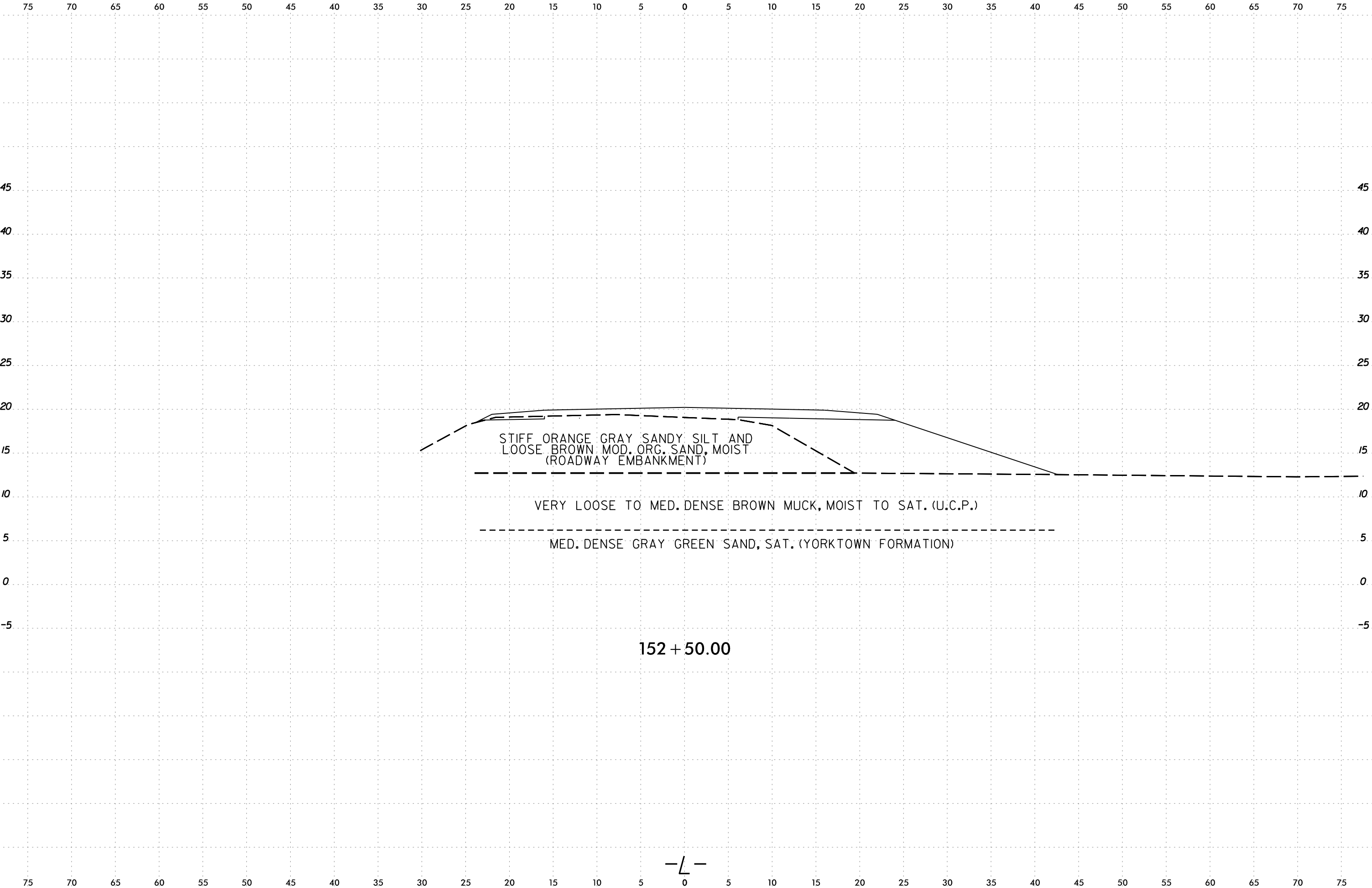
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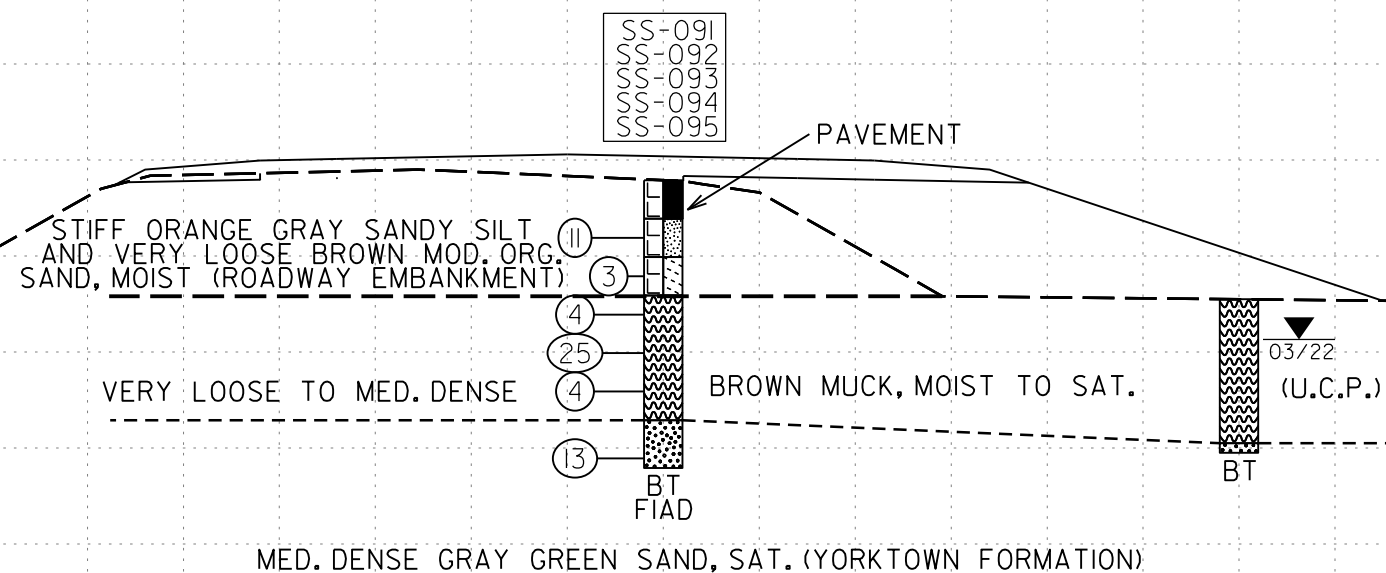
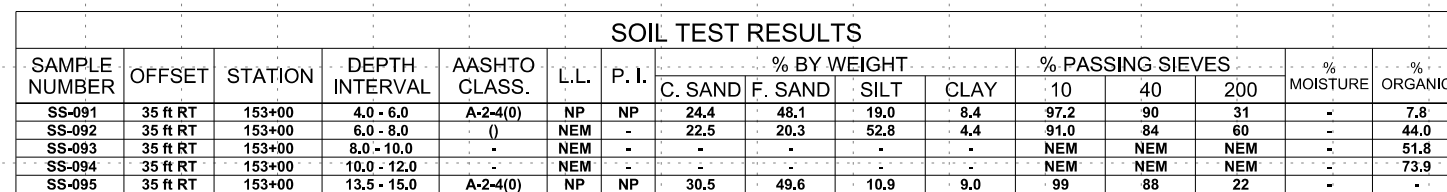
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6/23/16

10-JAN-2023 11:57
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	300



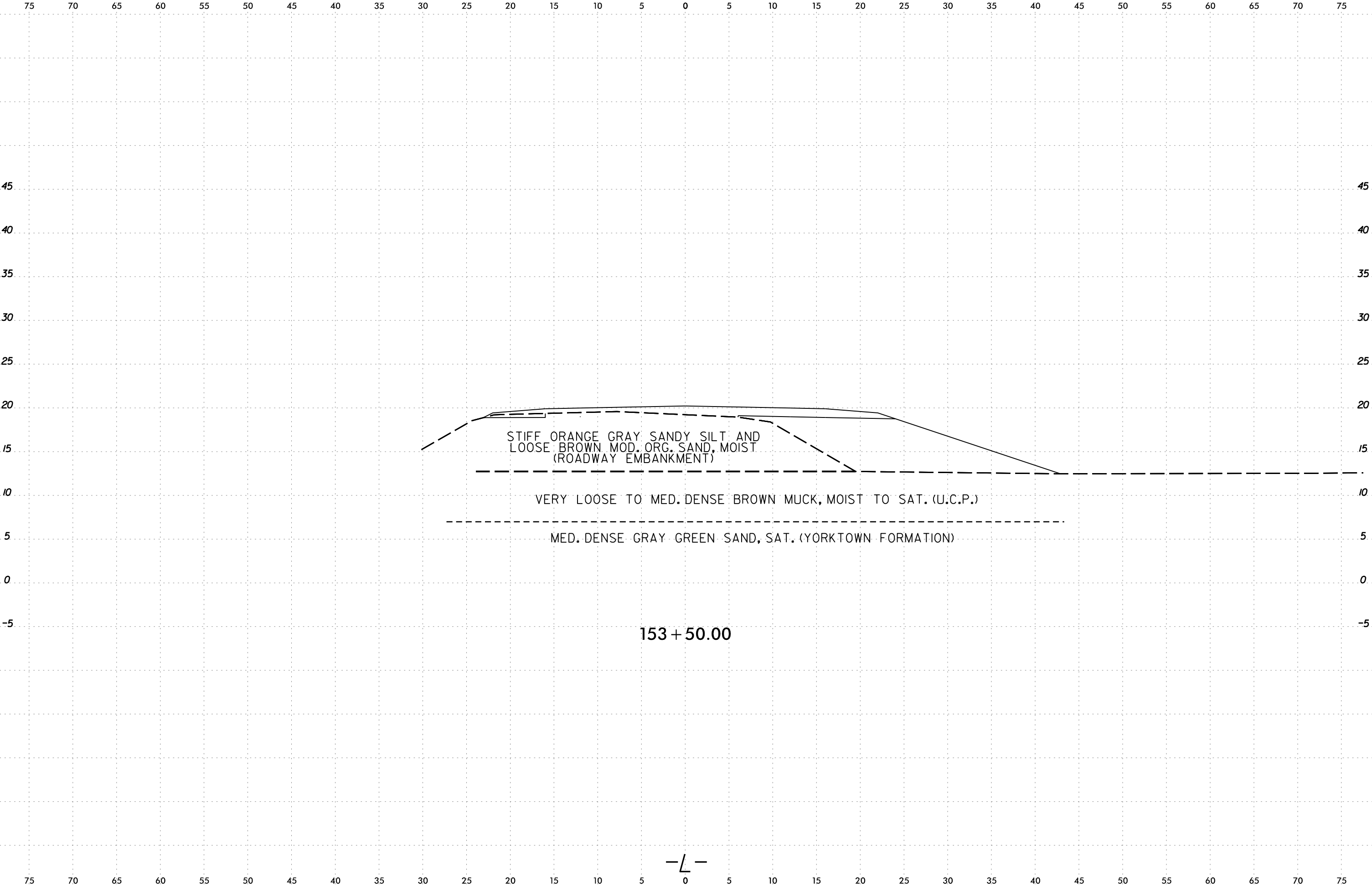


153 + 00.00

6/23/16

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Lee Stone AT LSTONE-CAD-PC

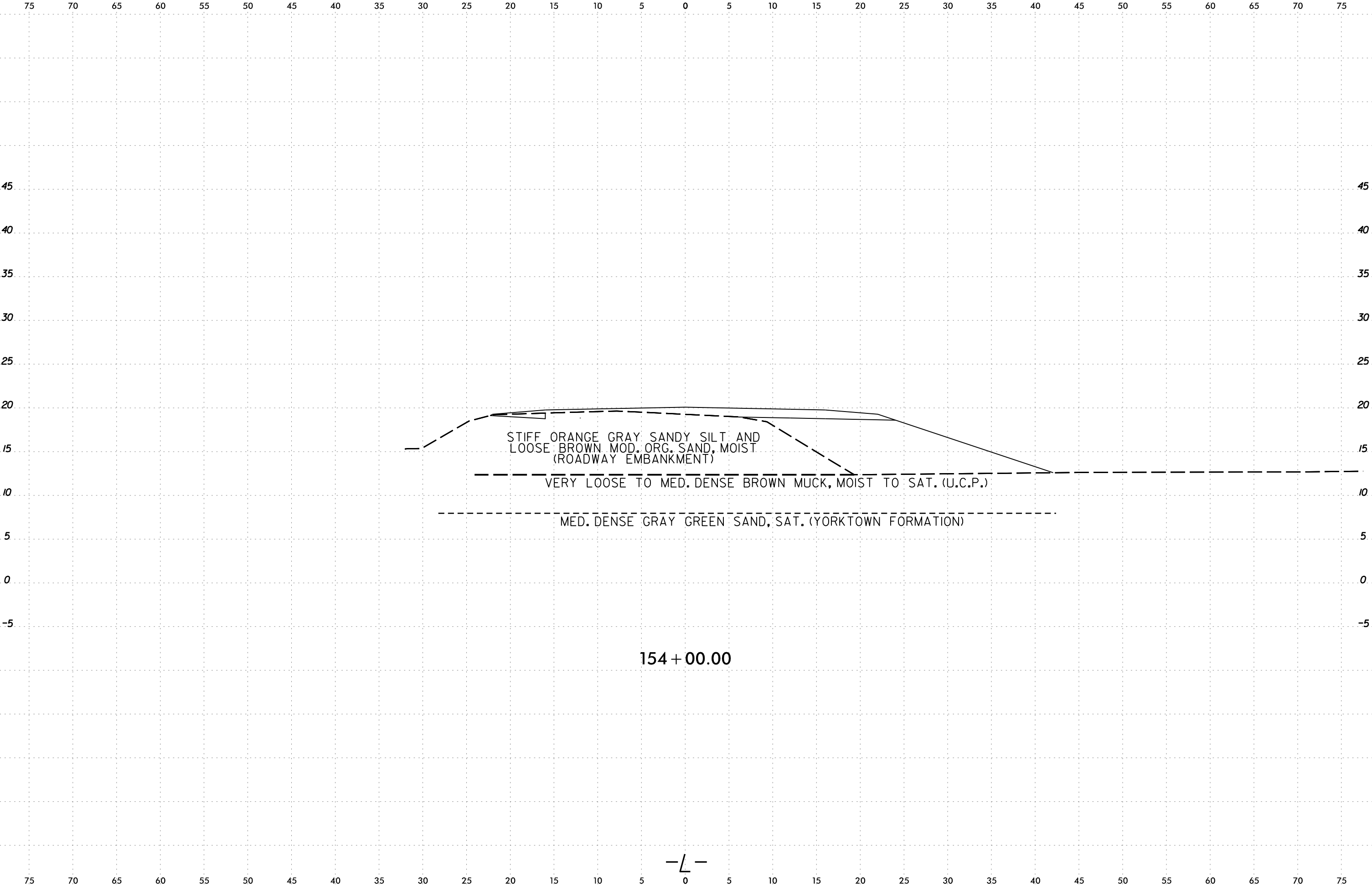
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	R-5808	302



6/23/16

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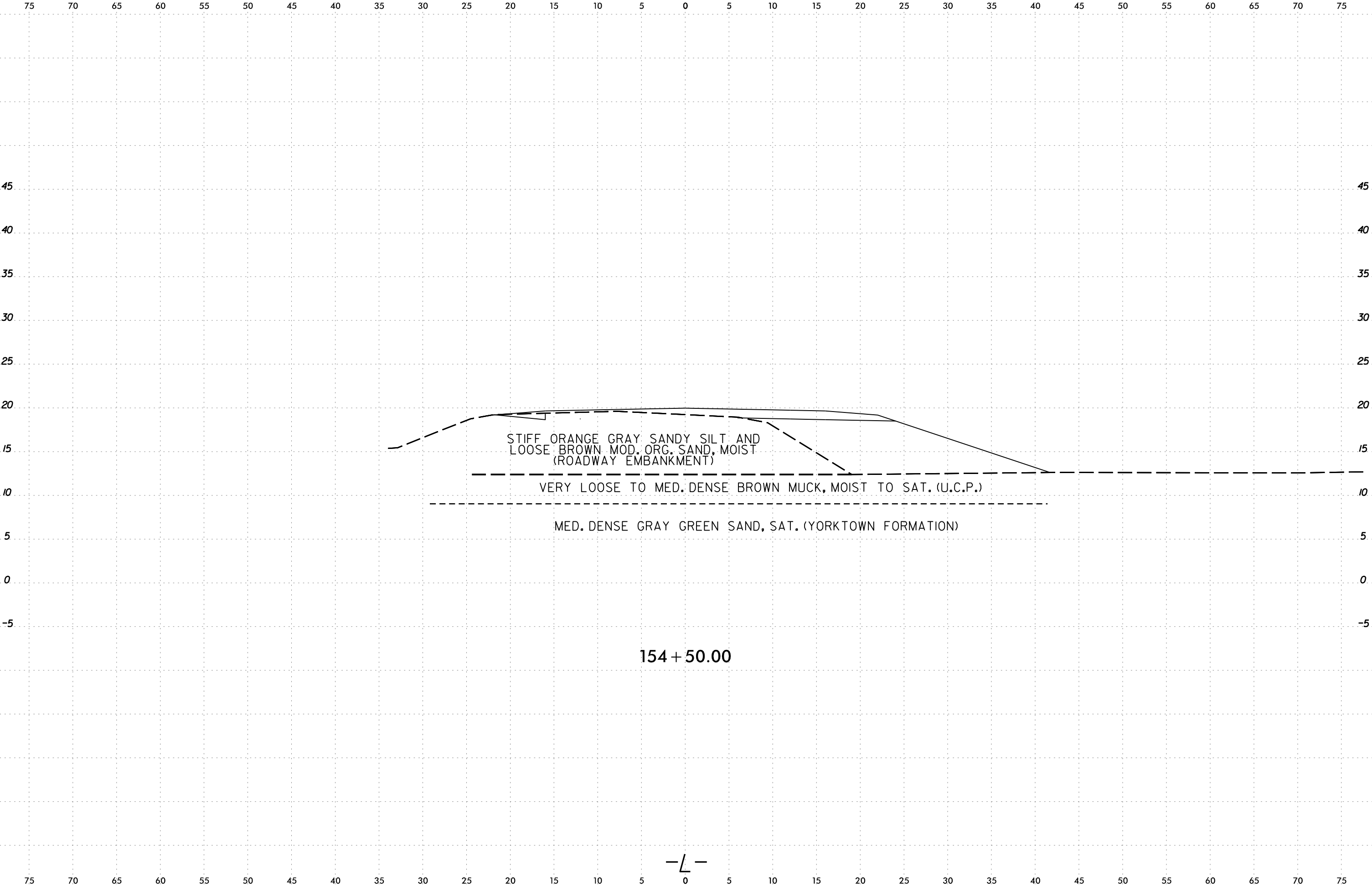
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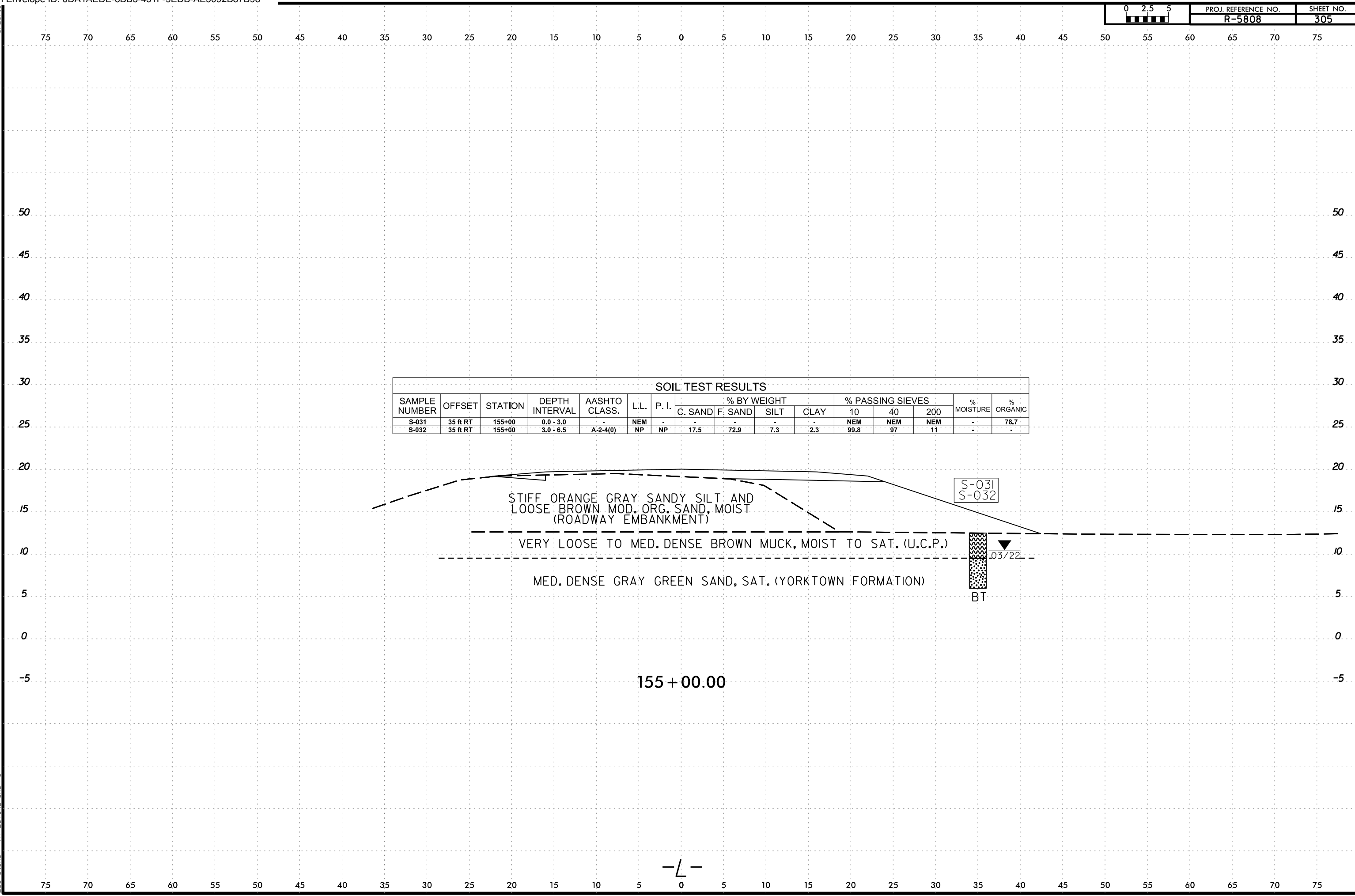


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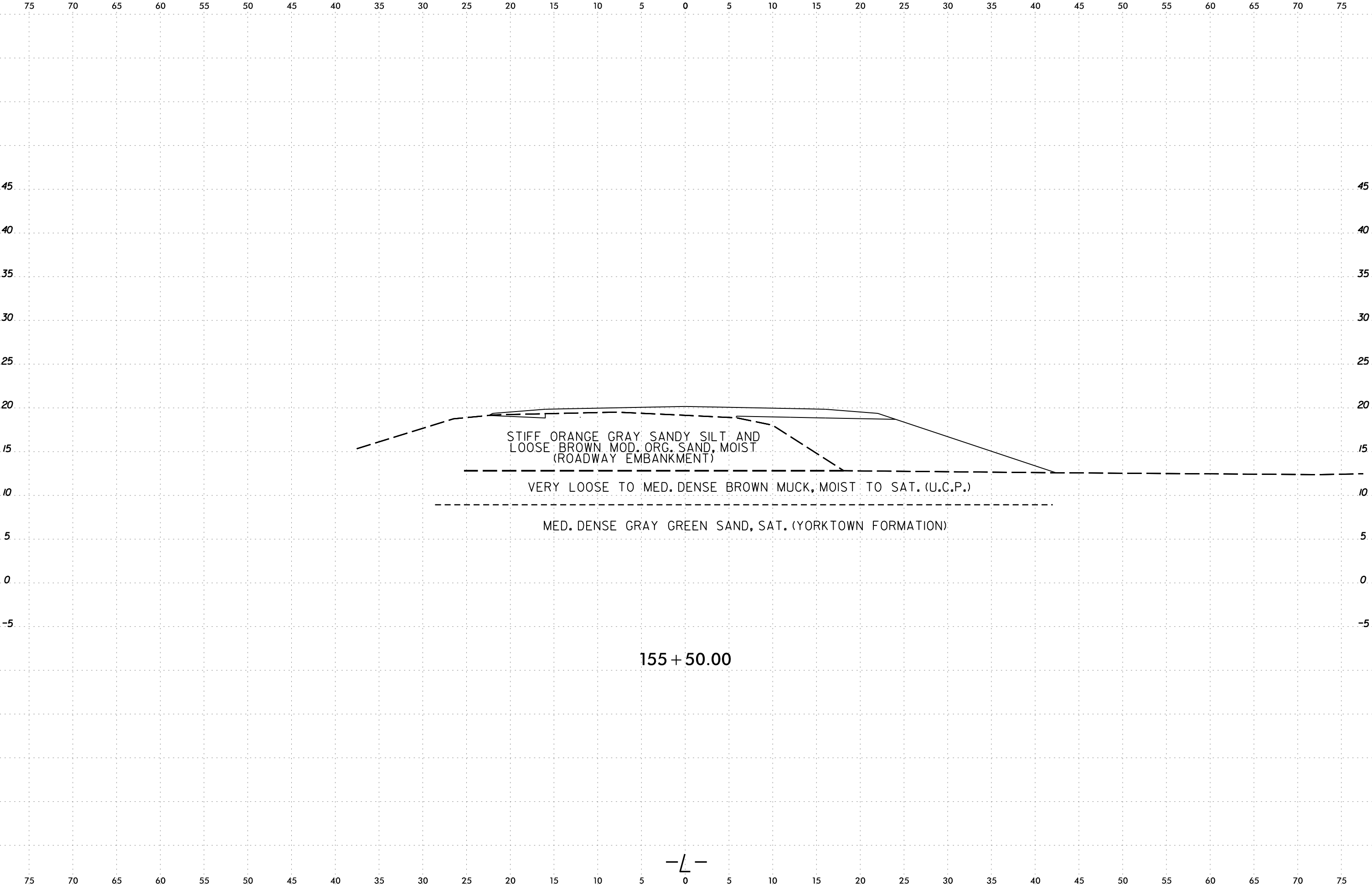




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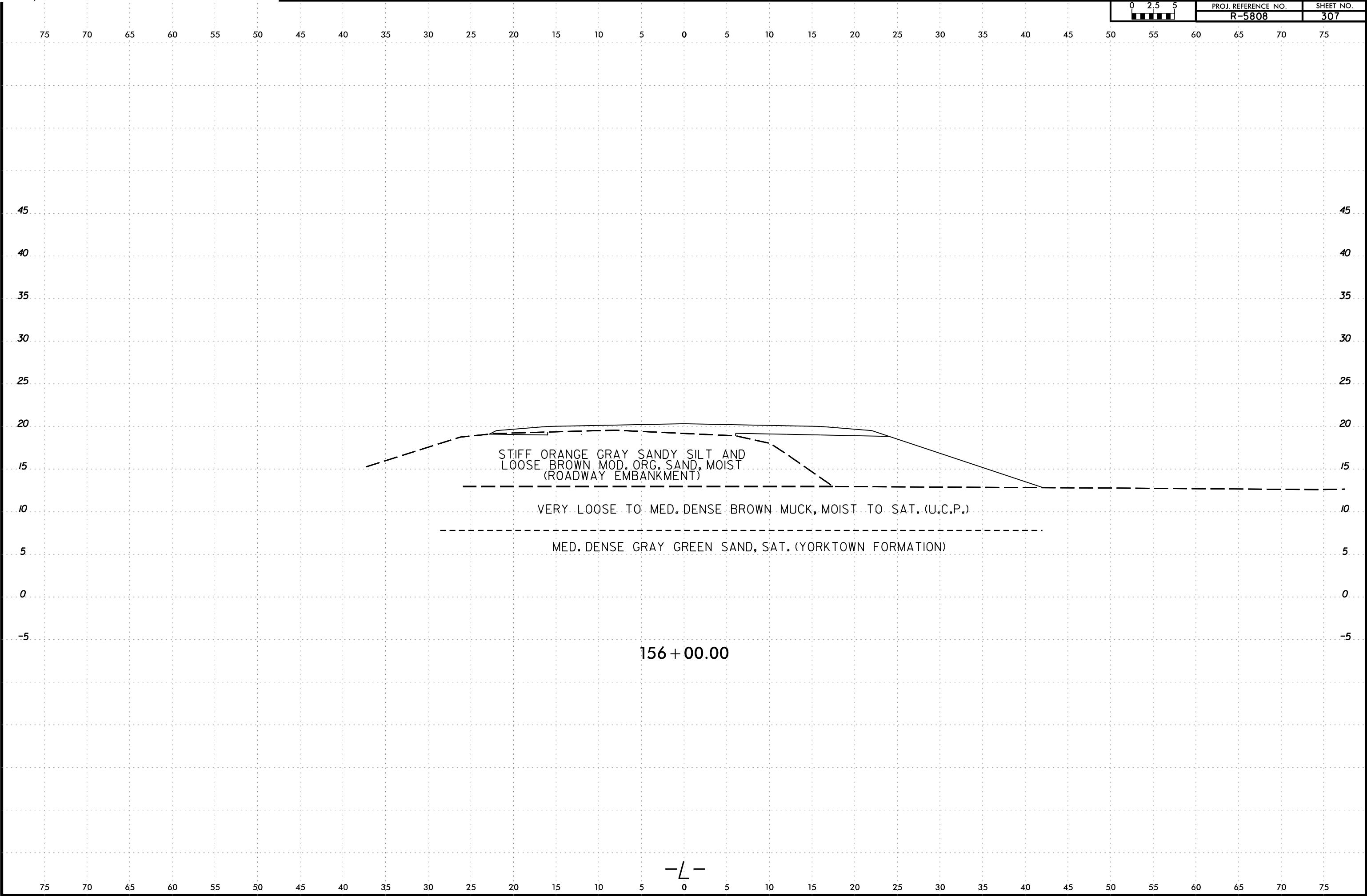
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	R-5808	306



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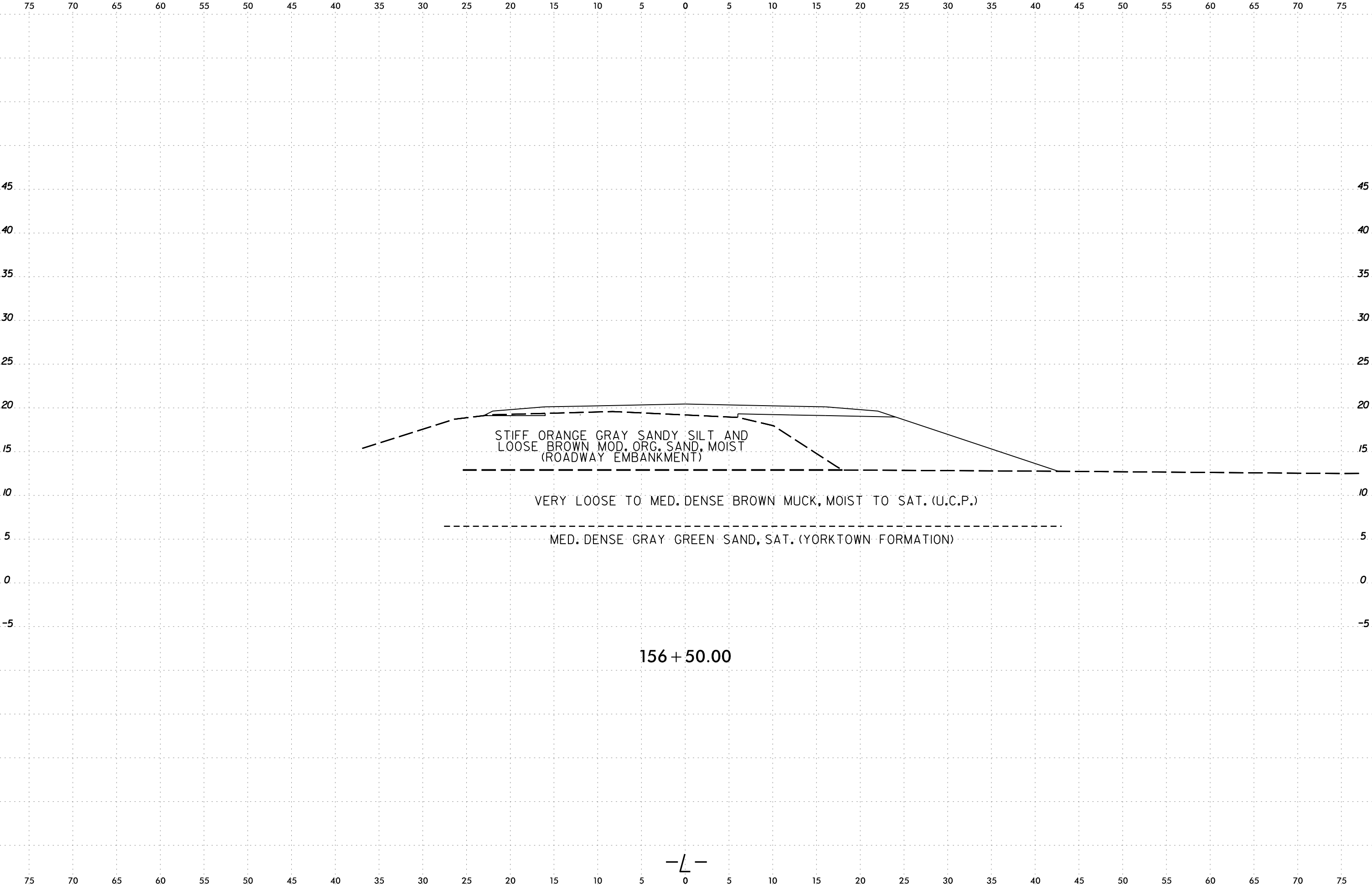
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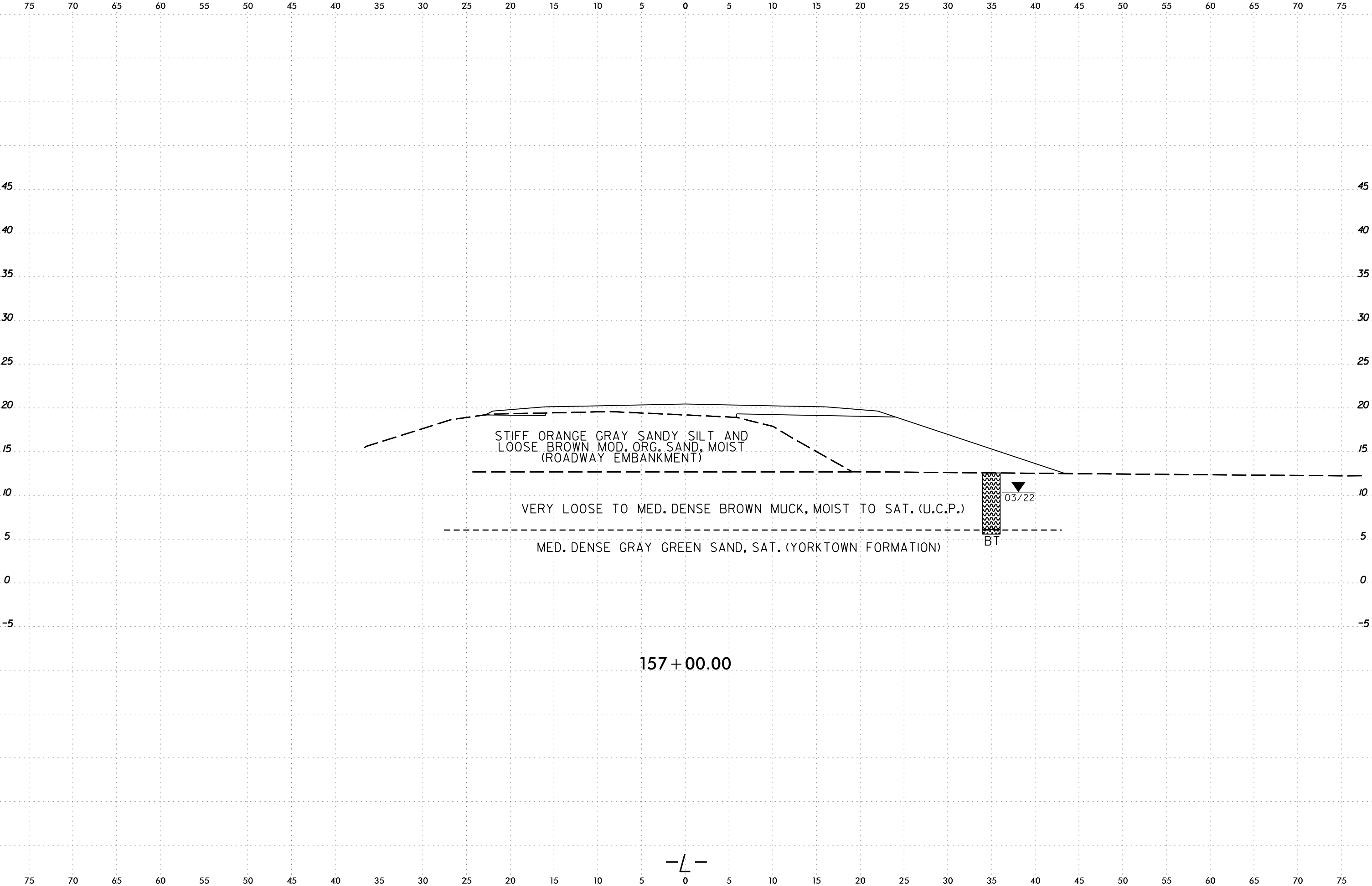


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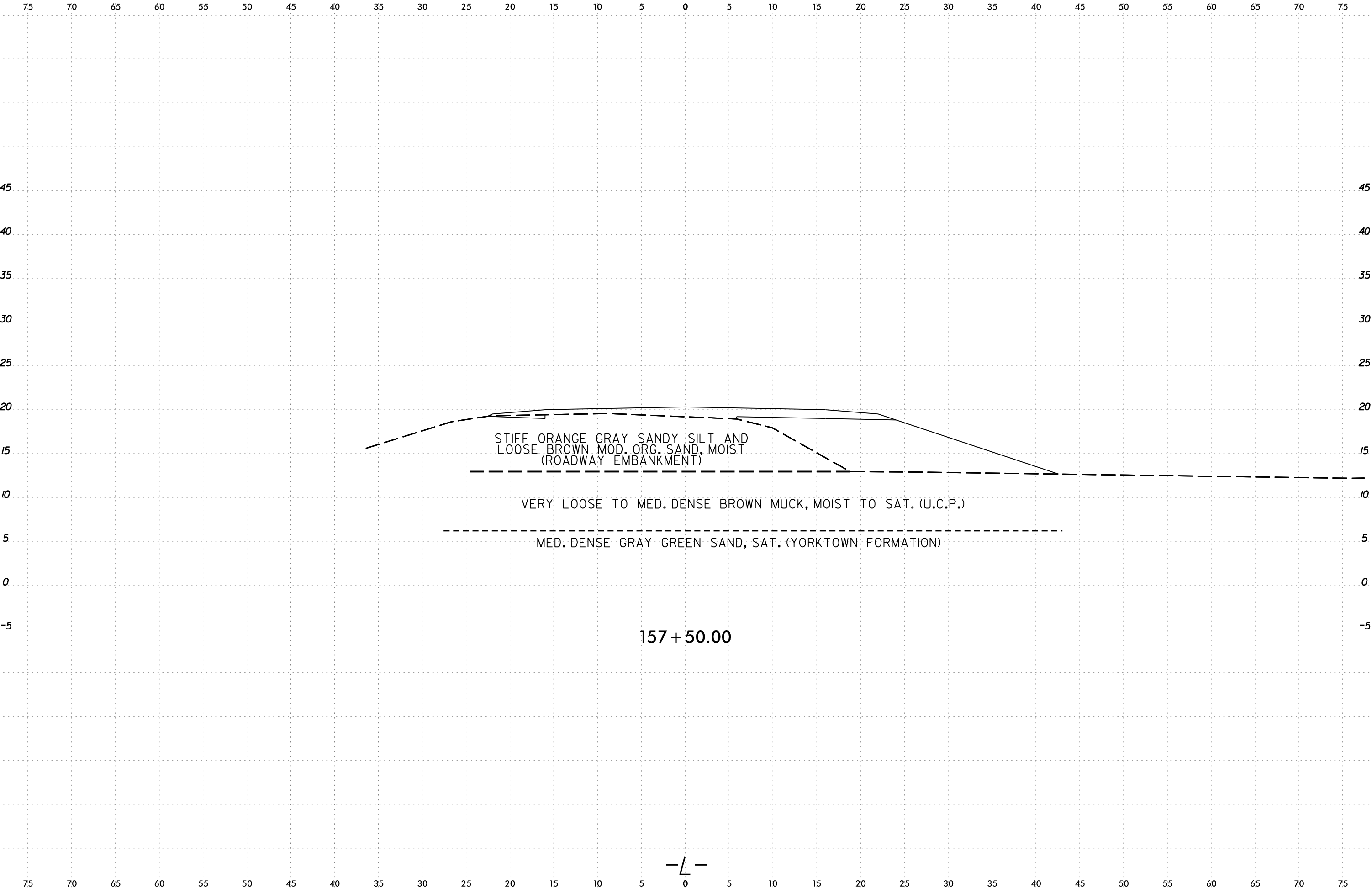
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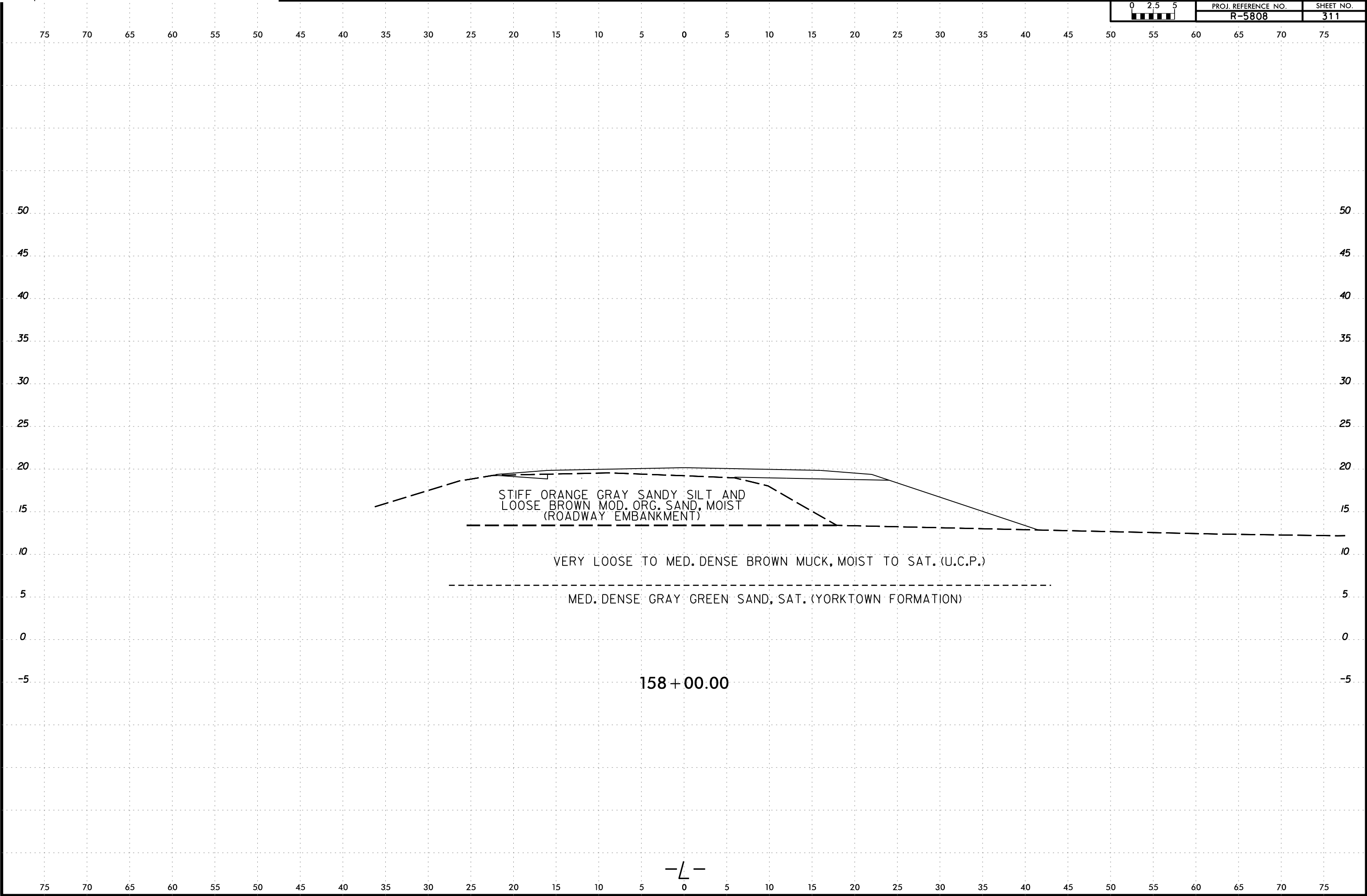


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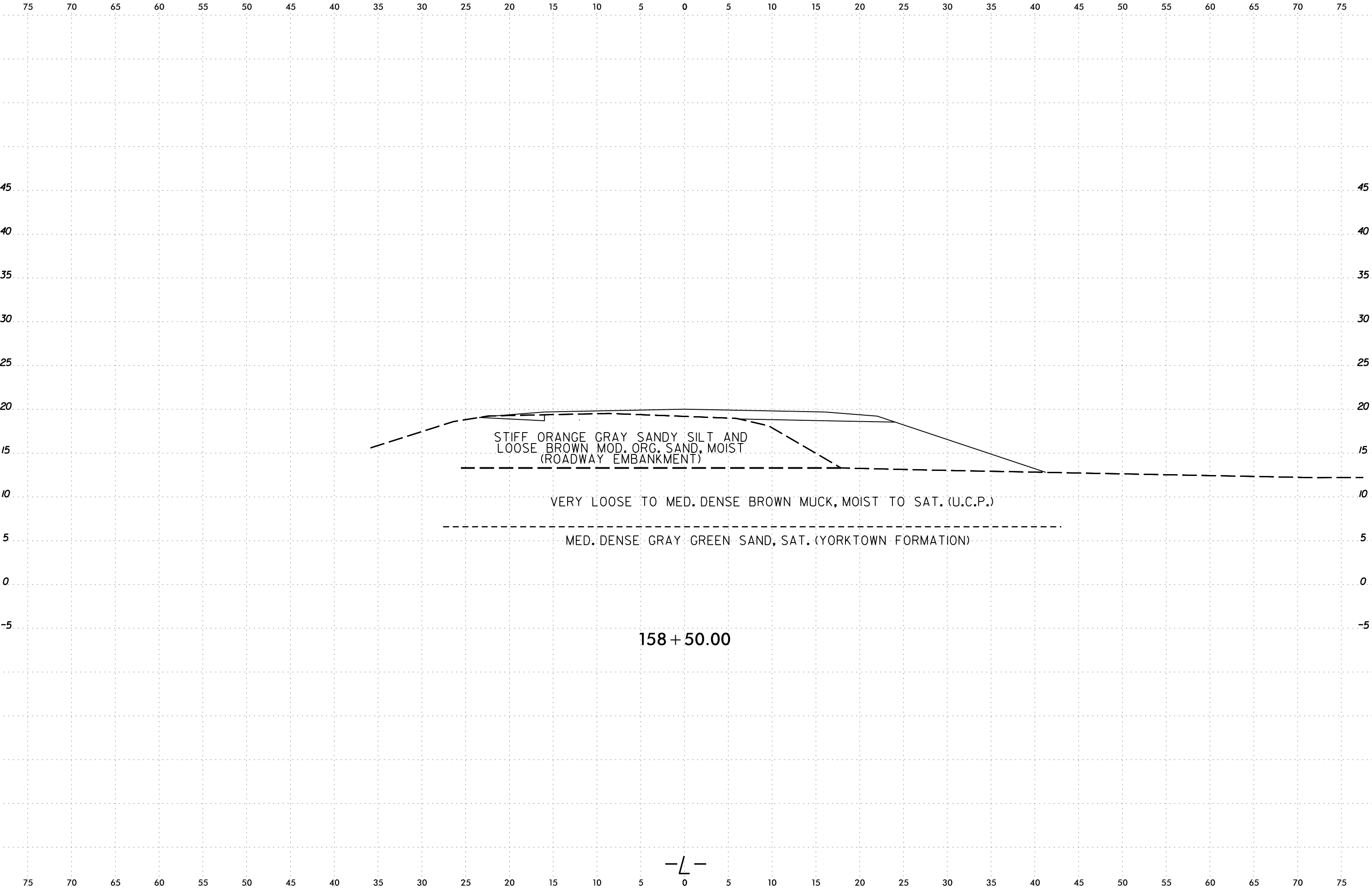


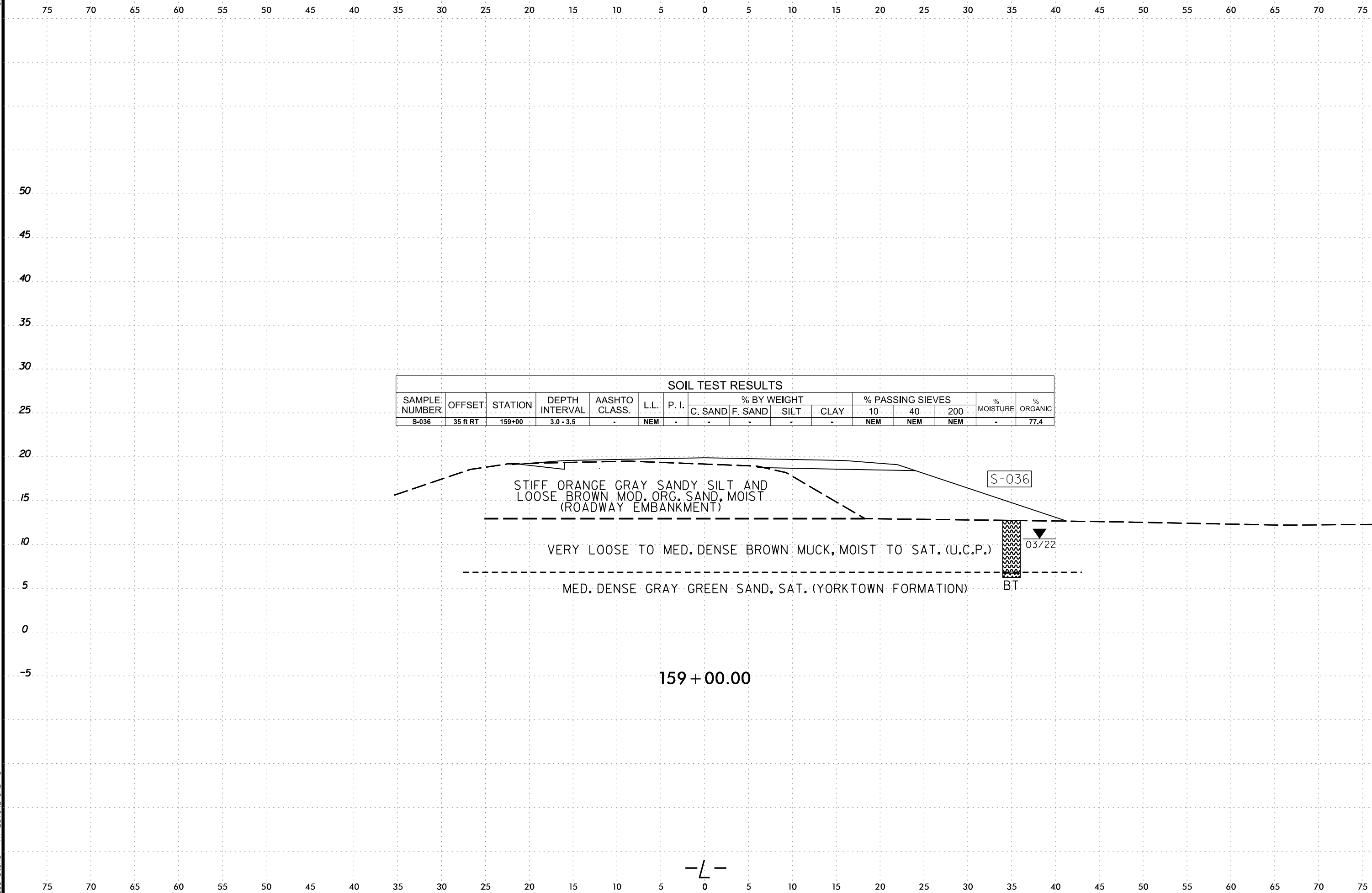
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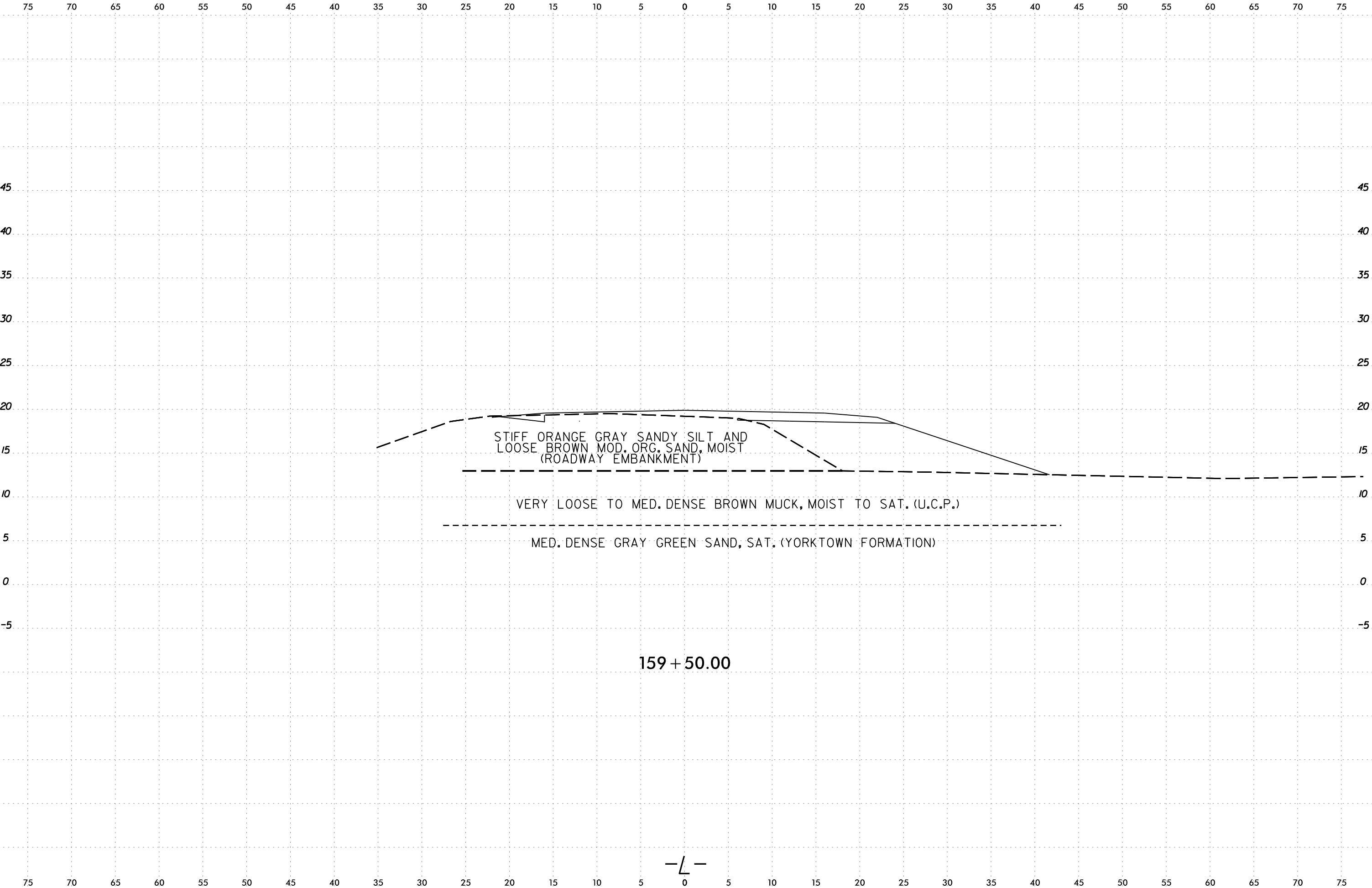




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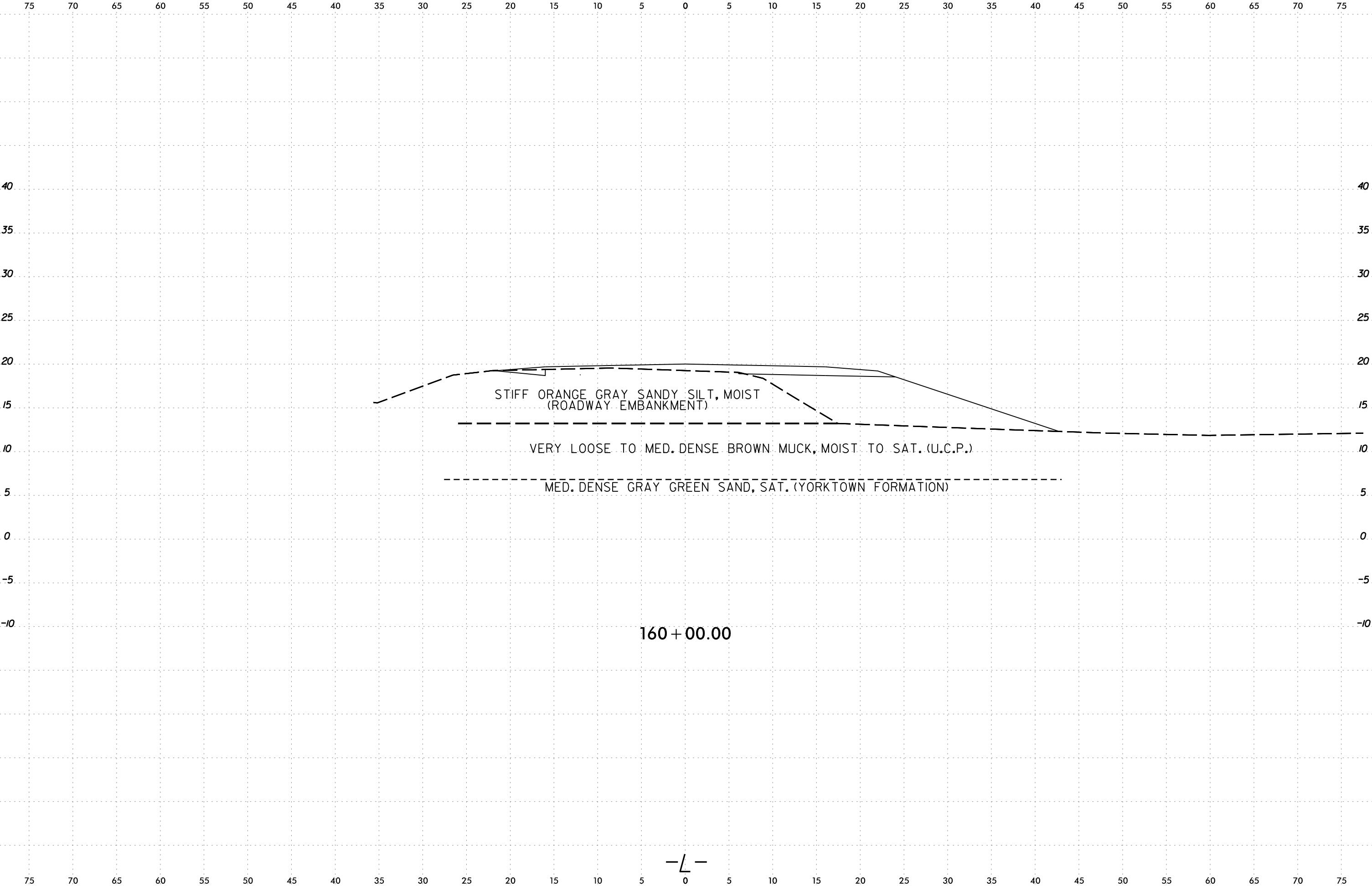
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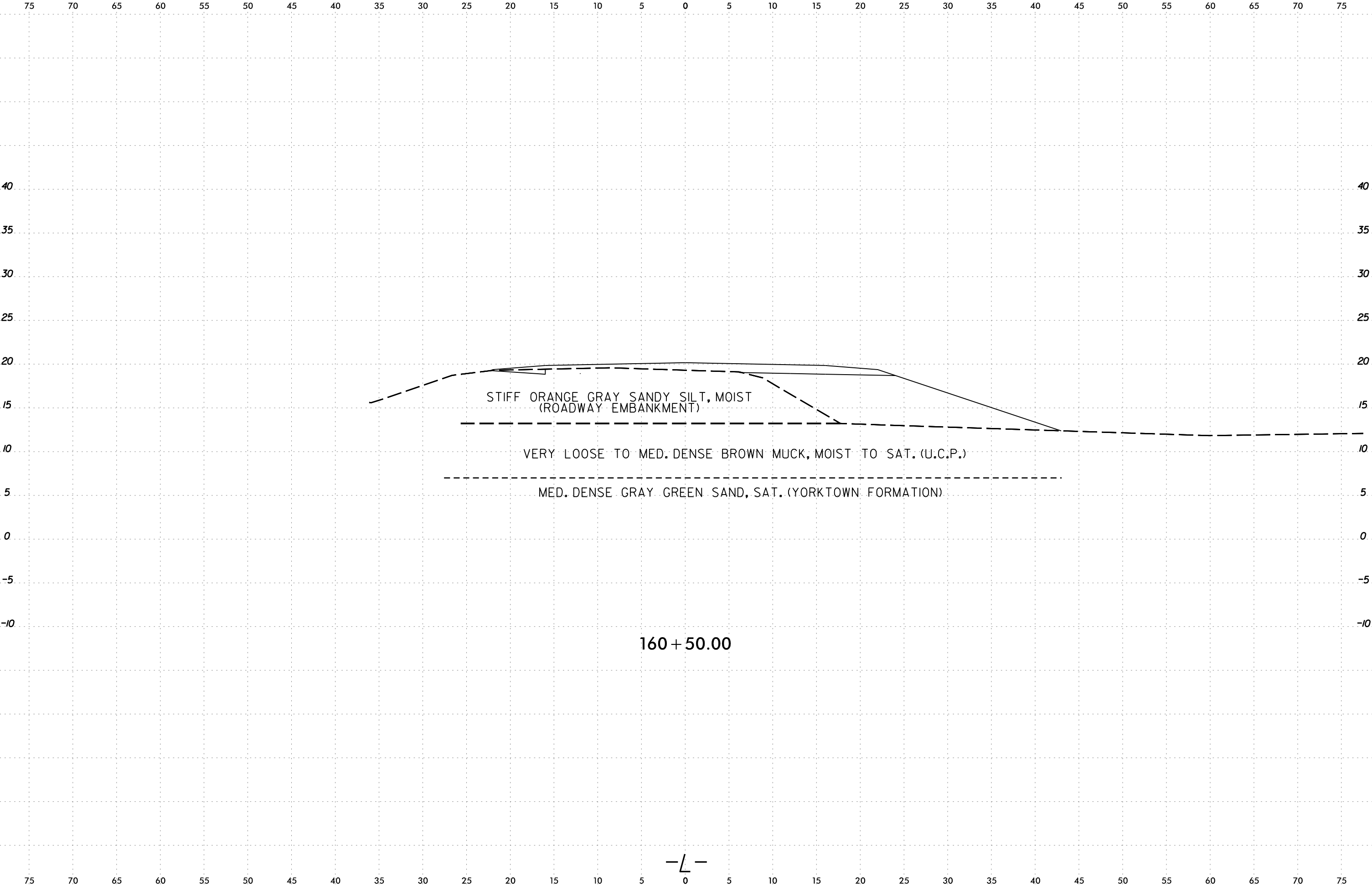
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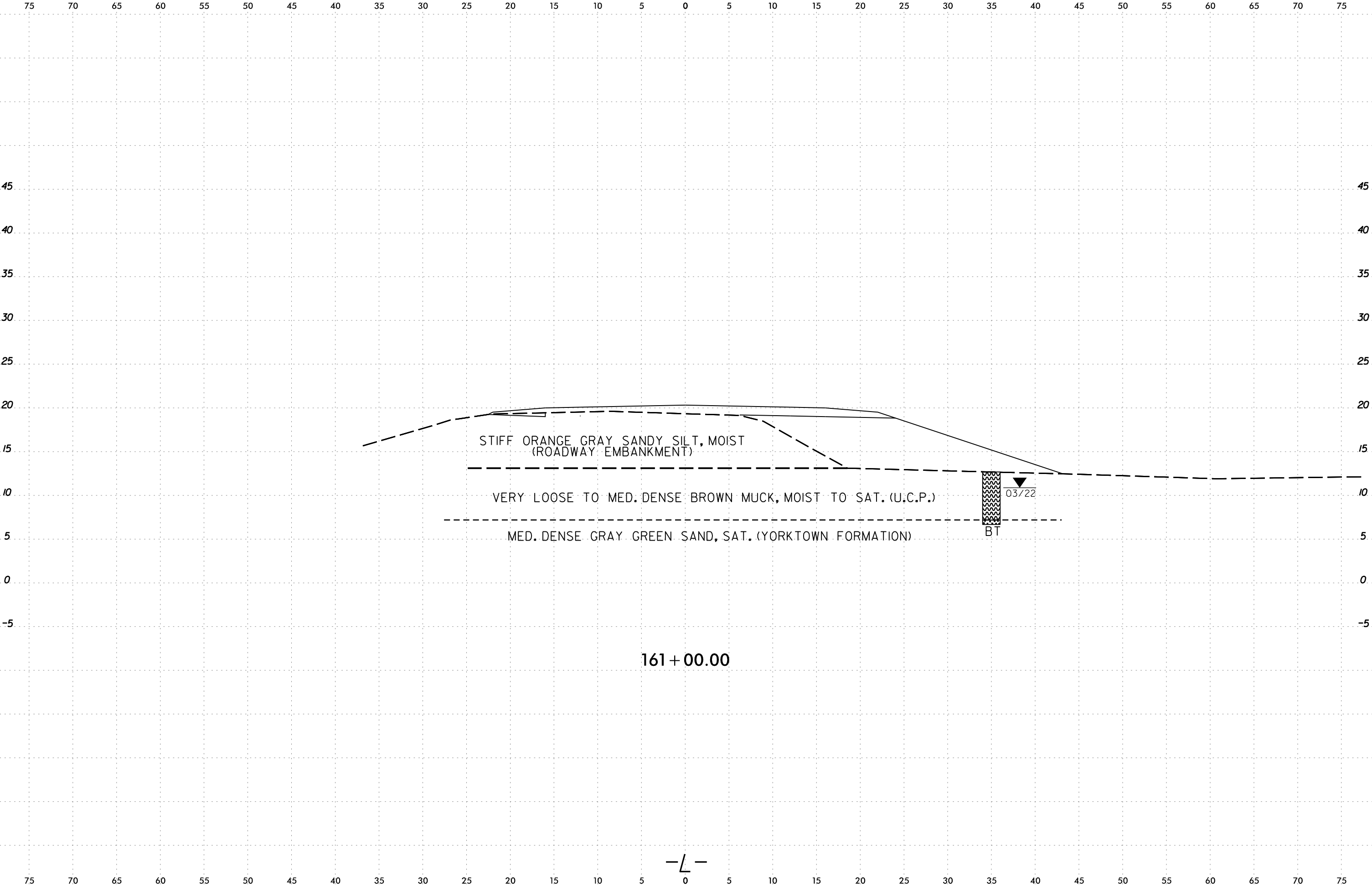
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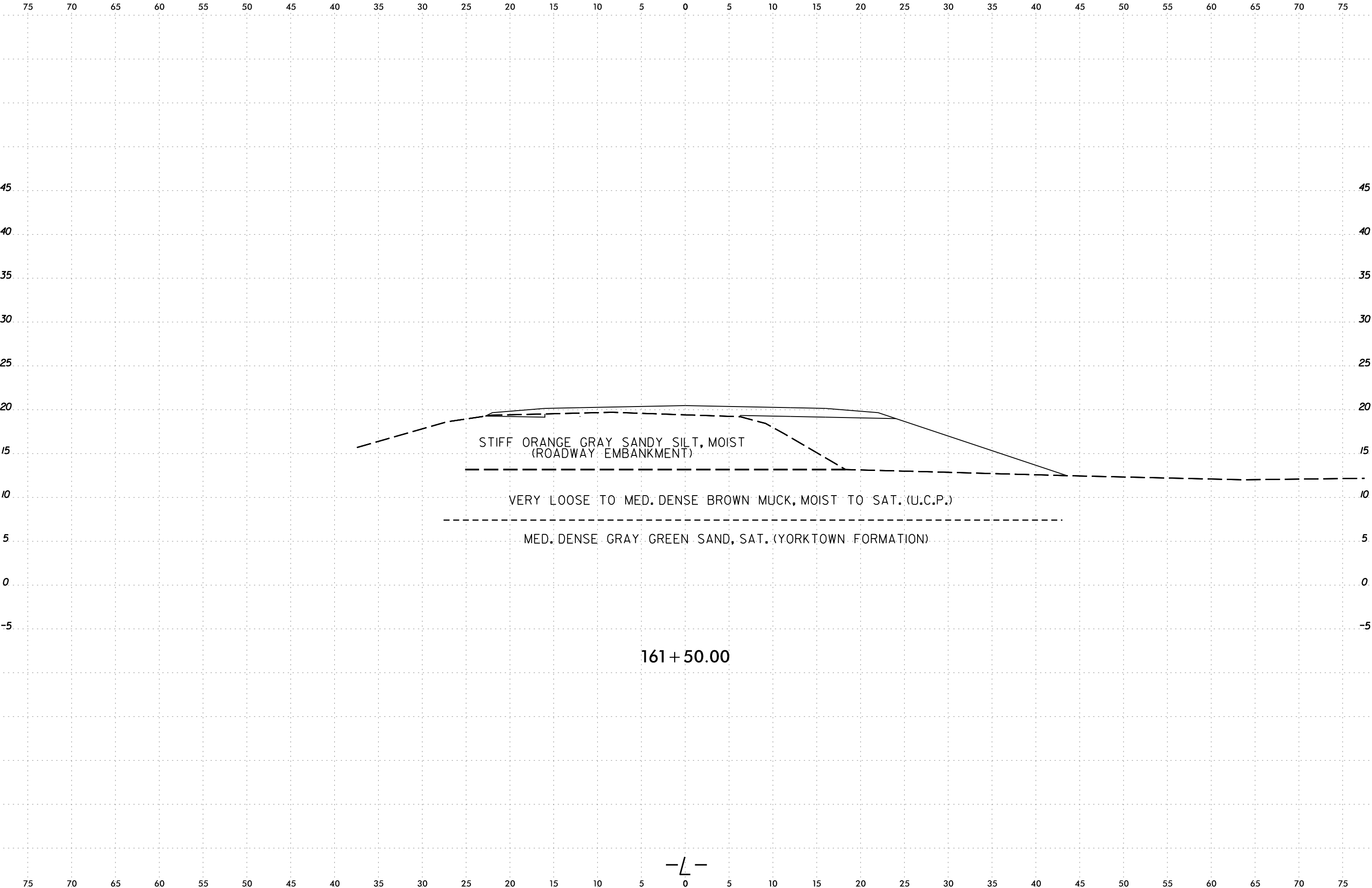


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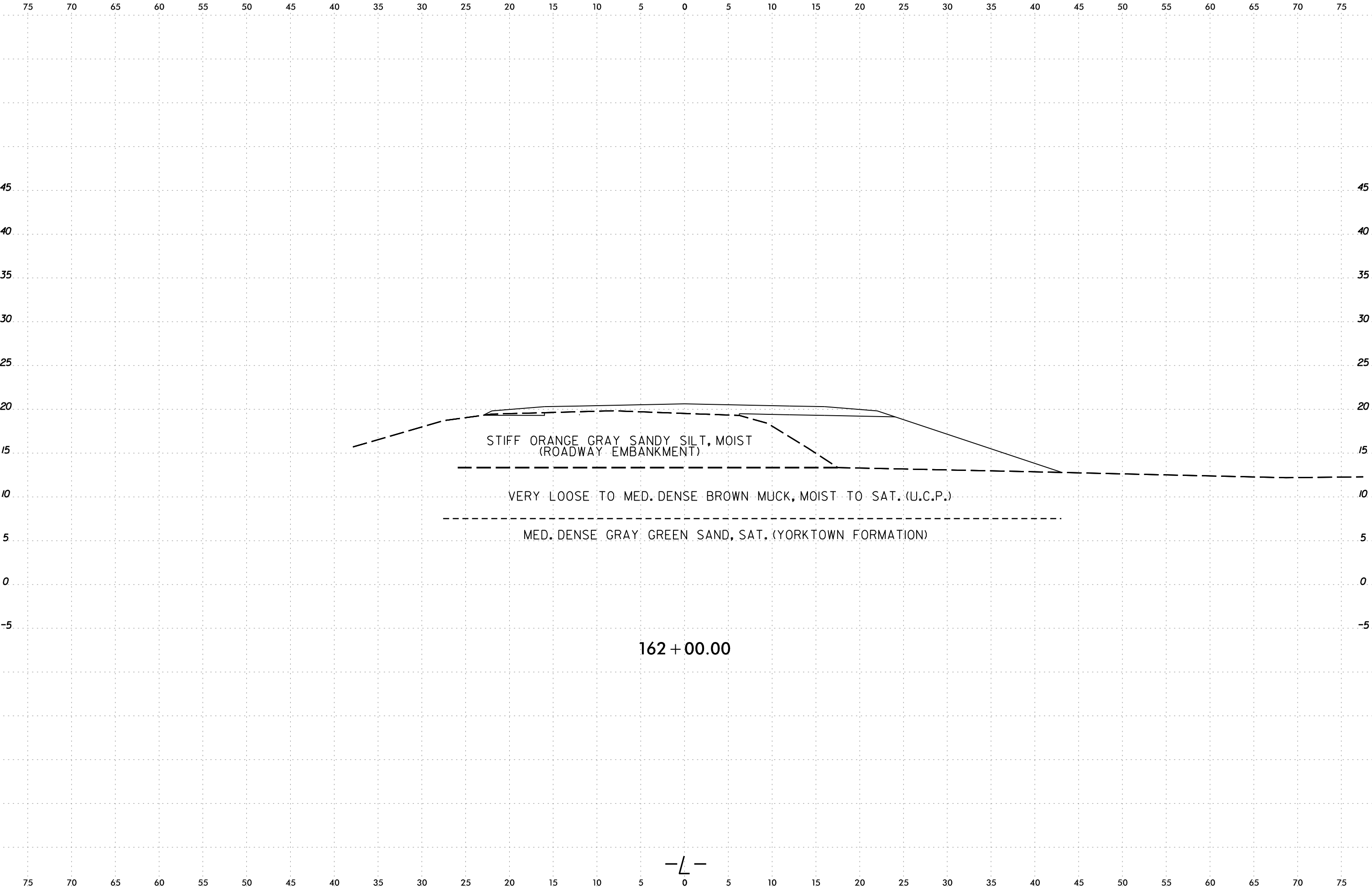
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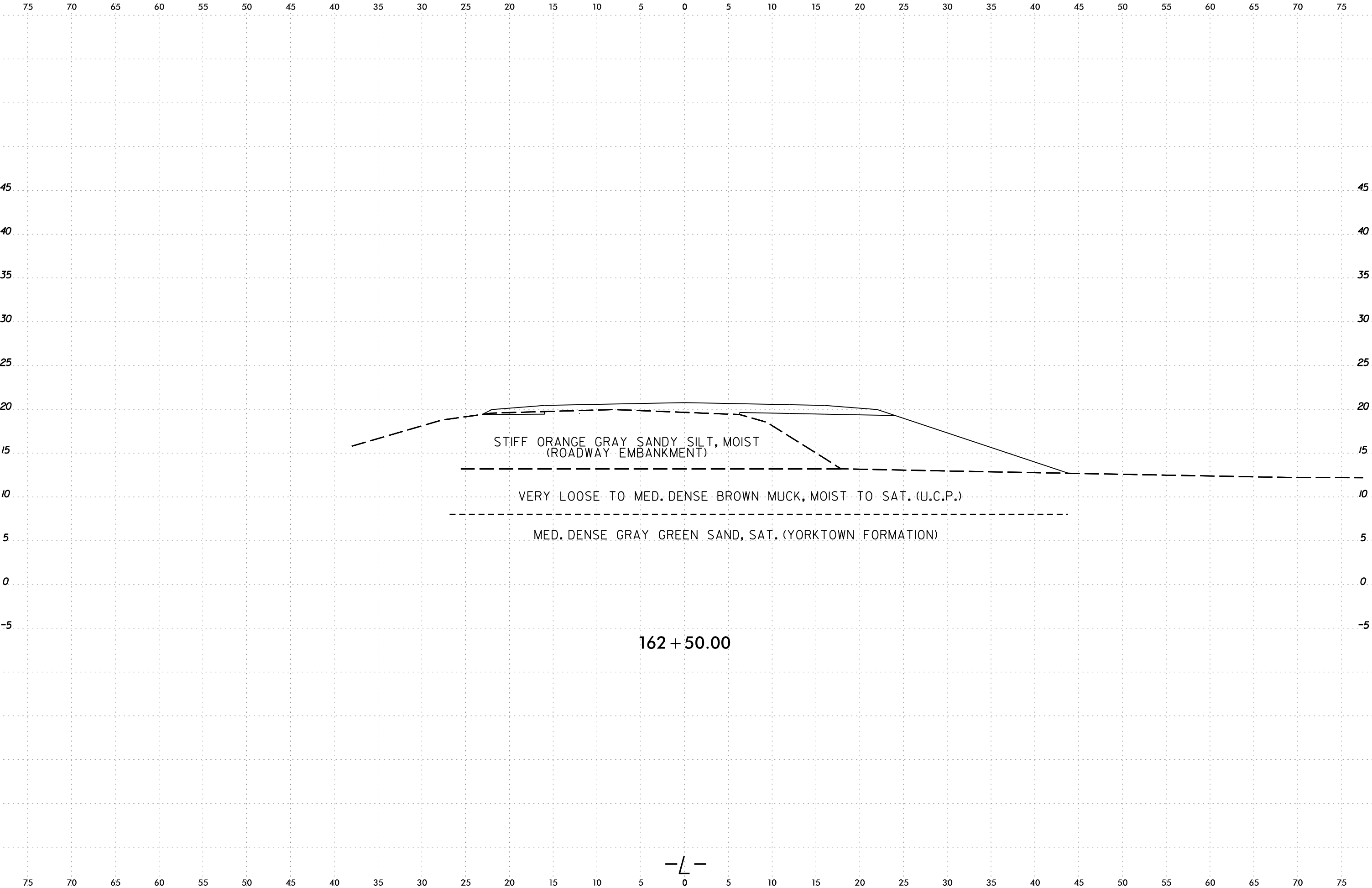
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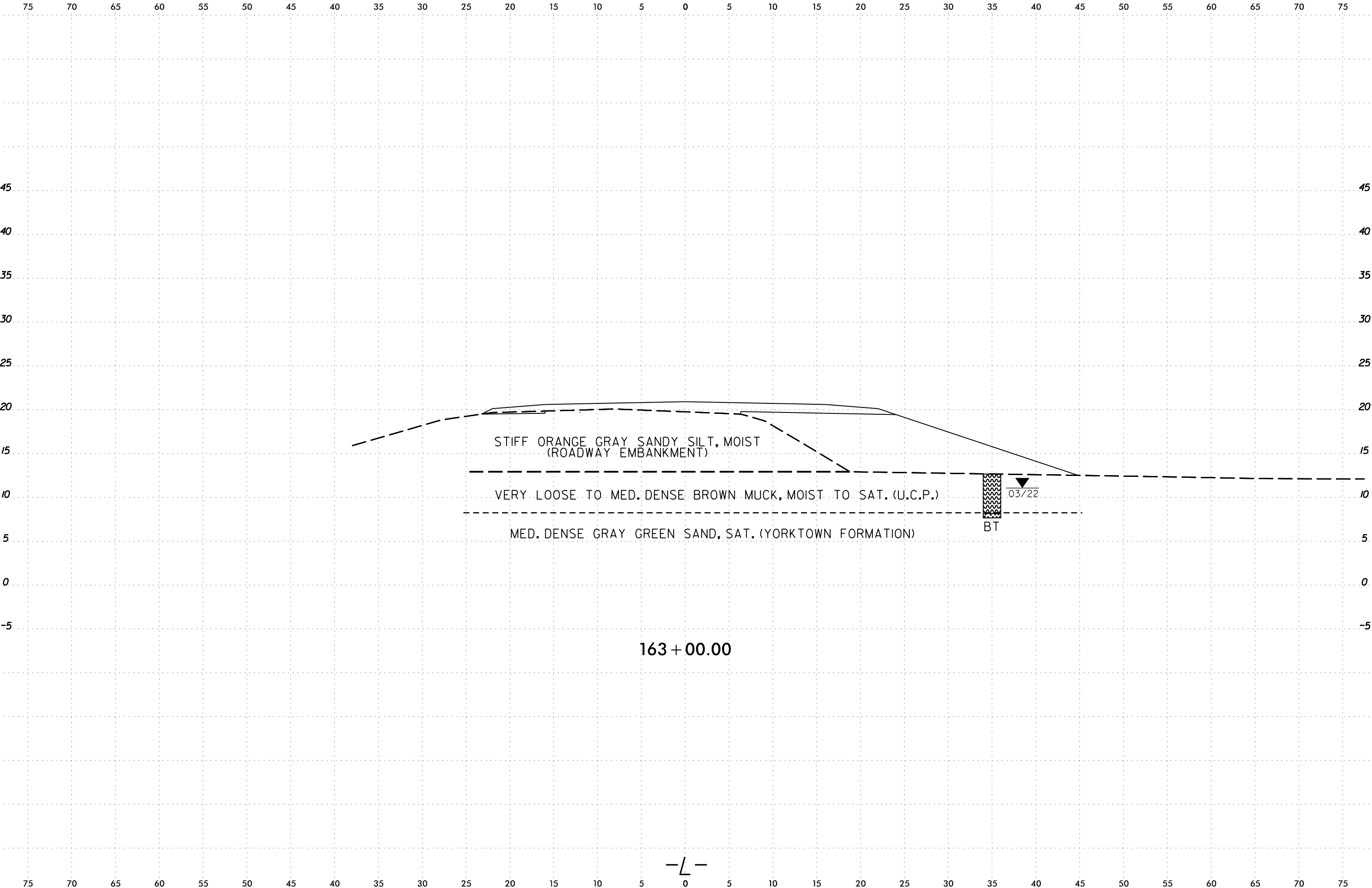
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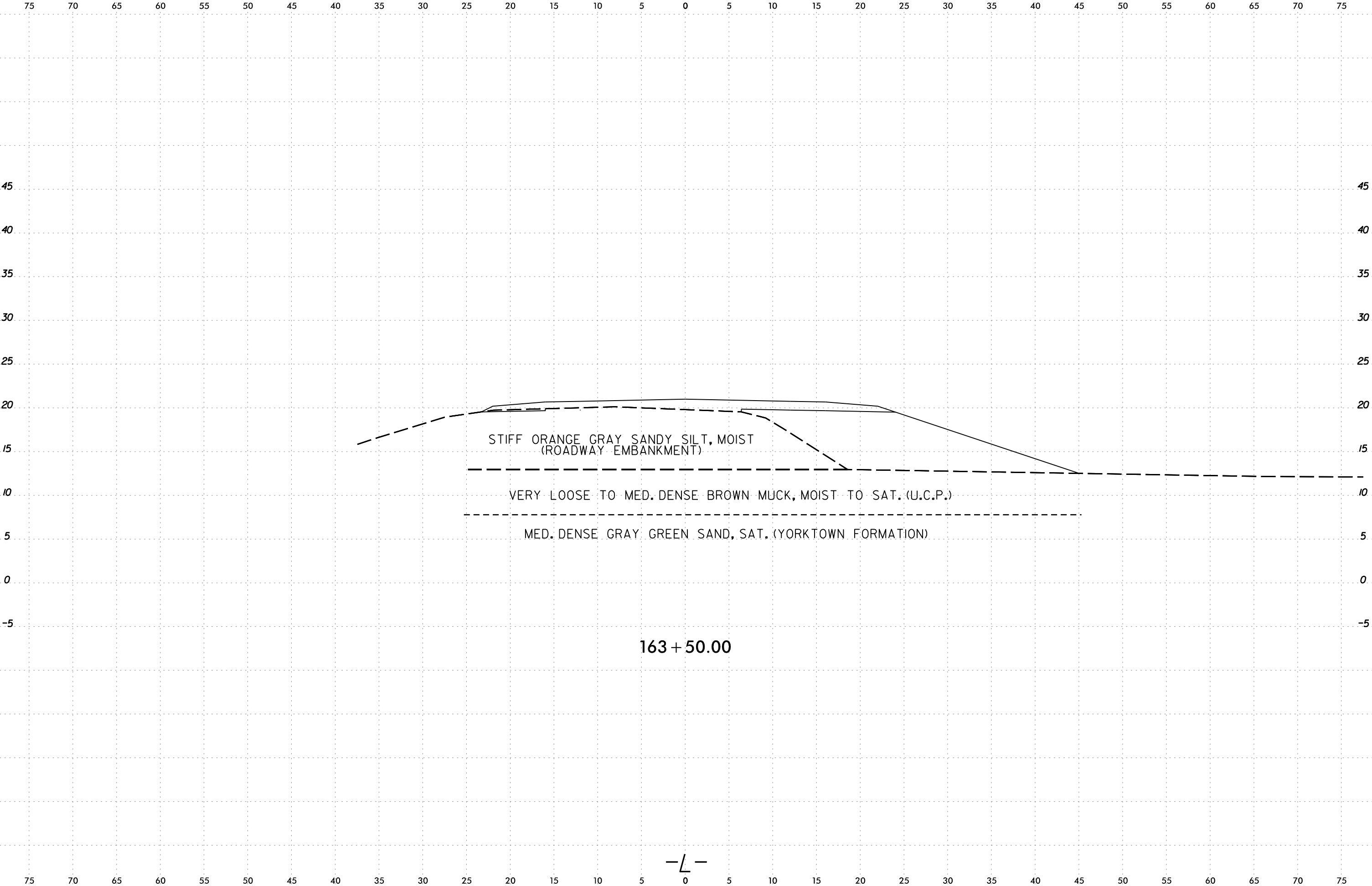
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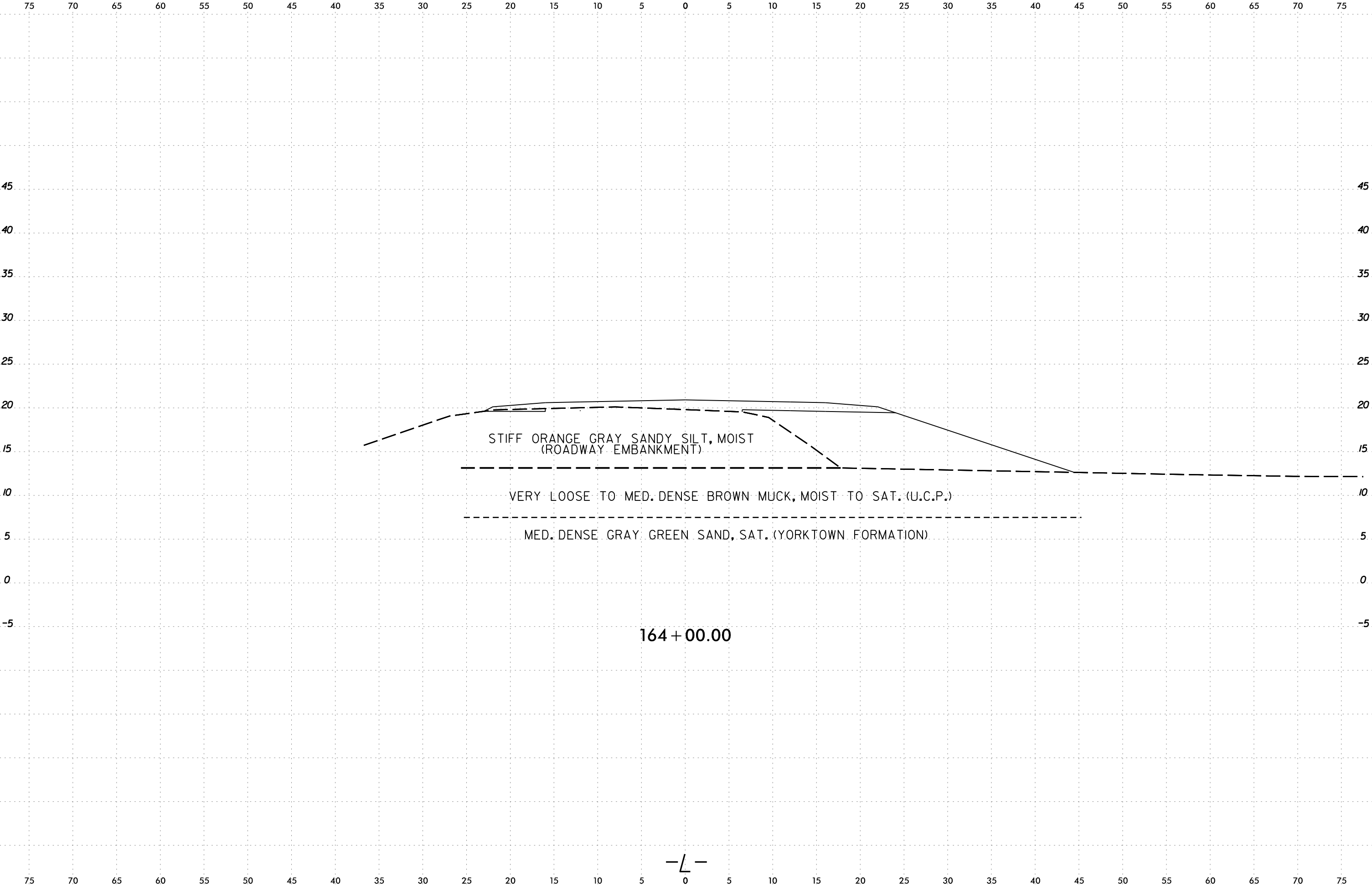
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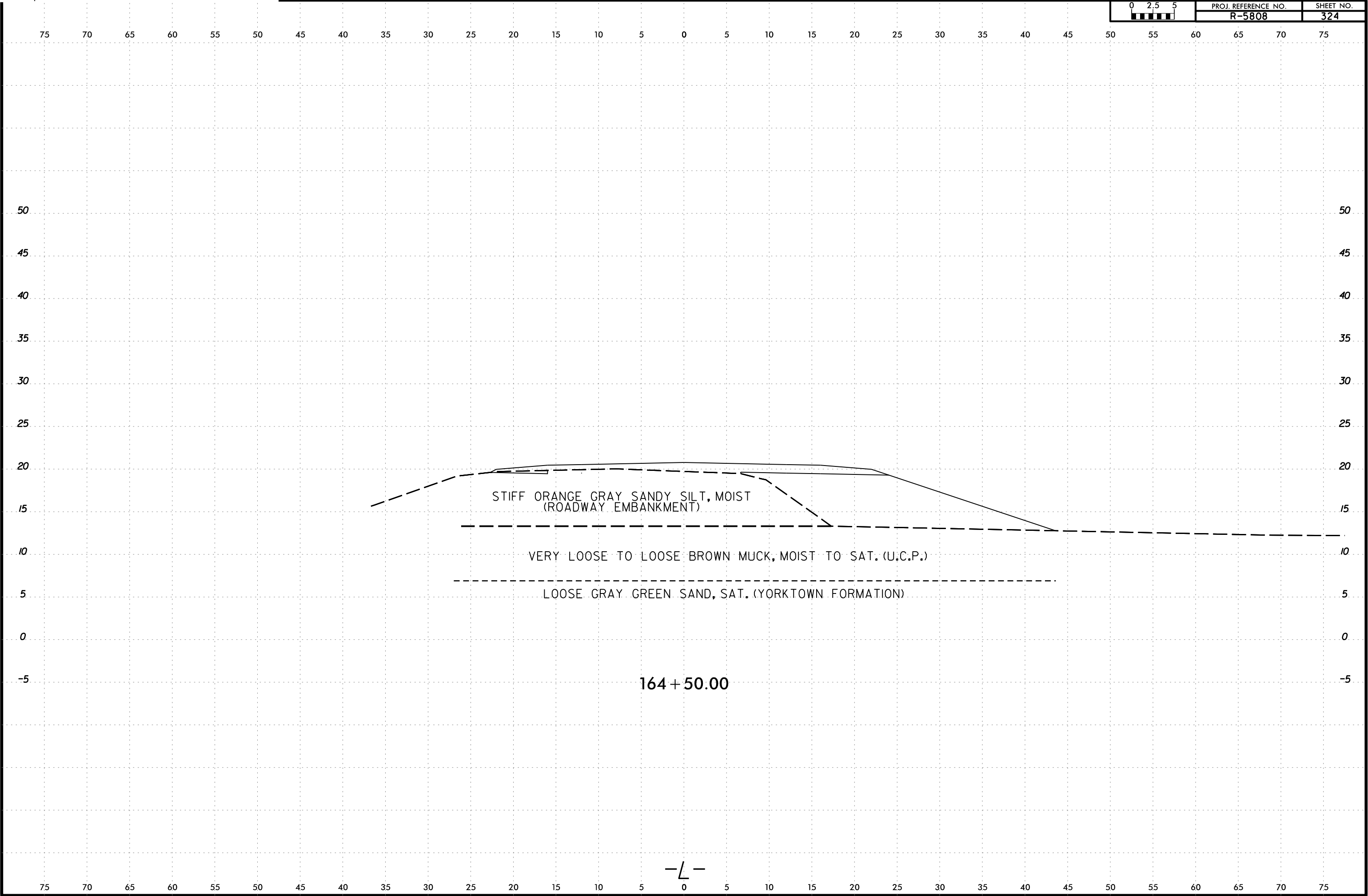
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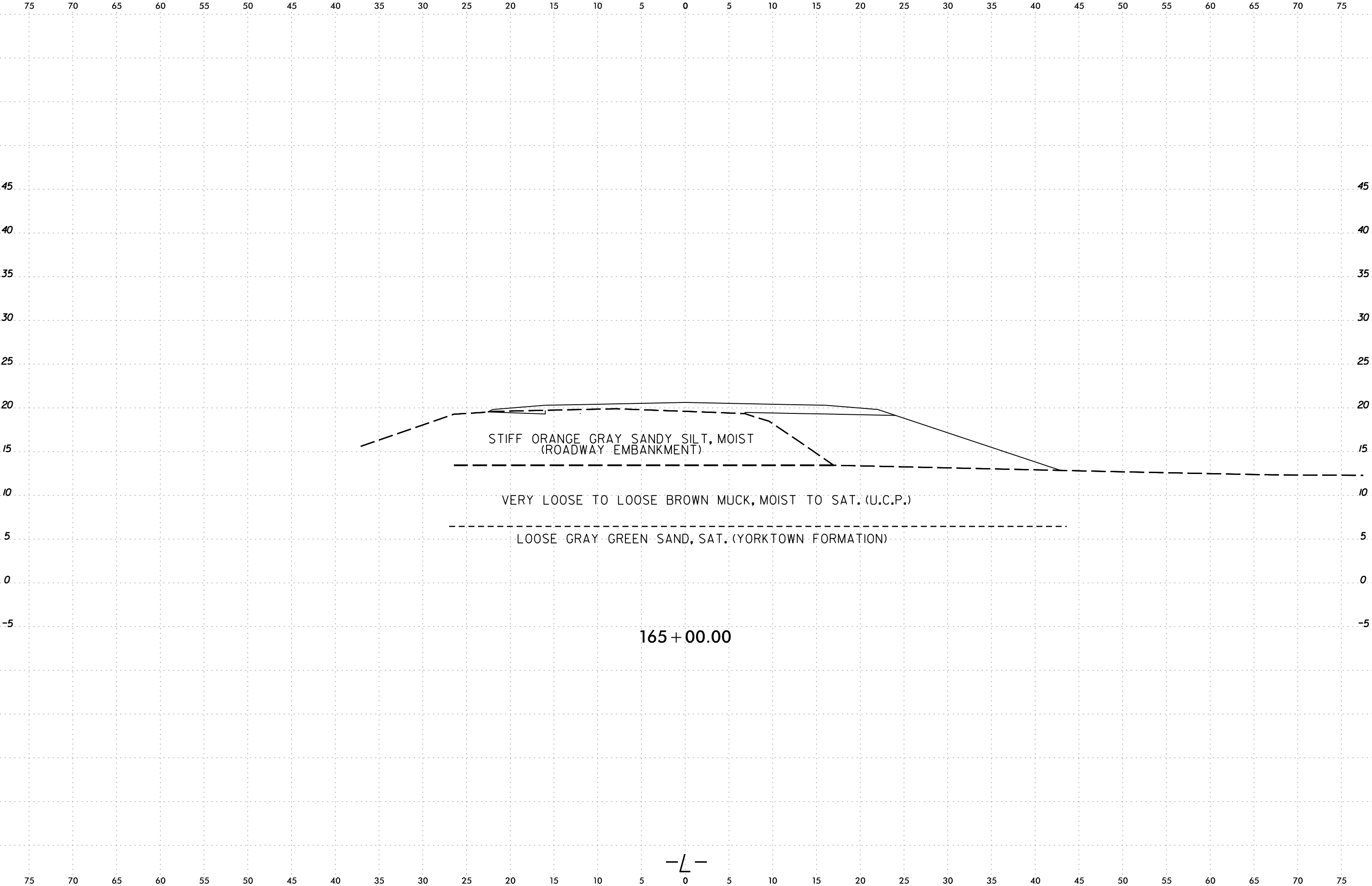
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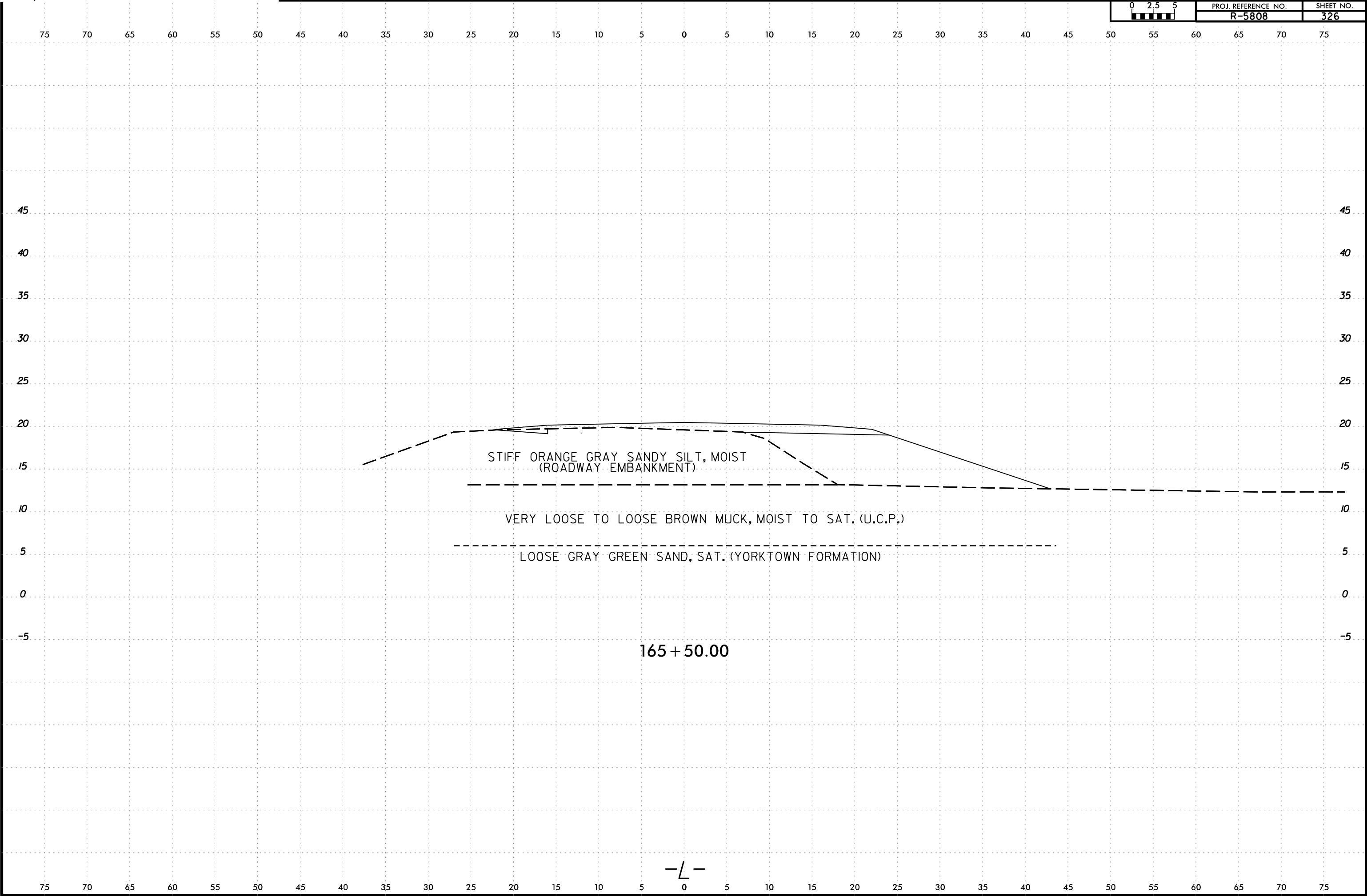
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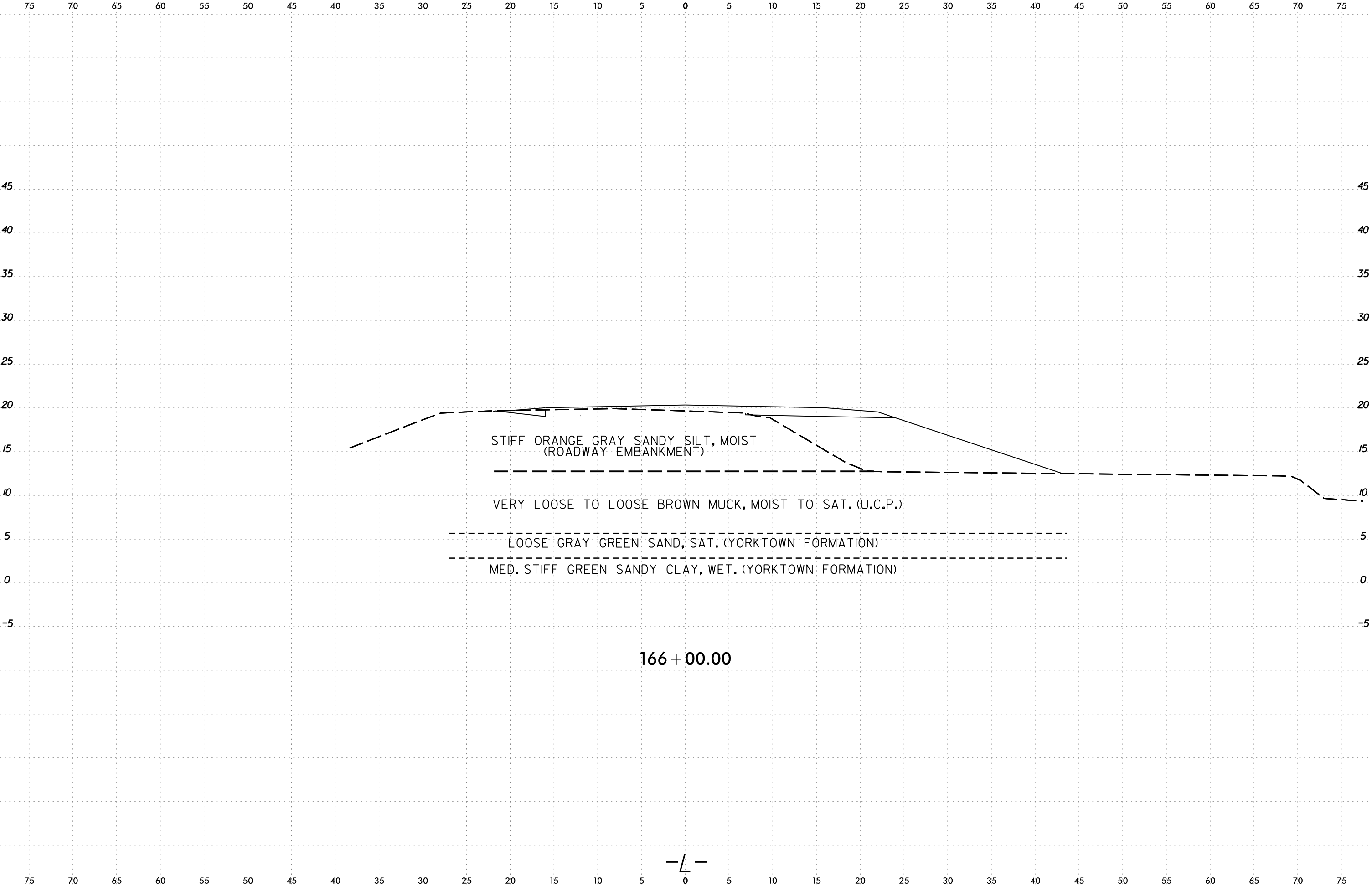
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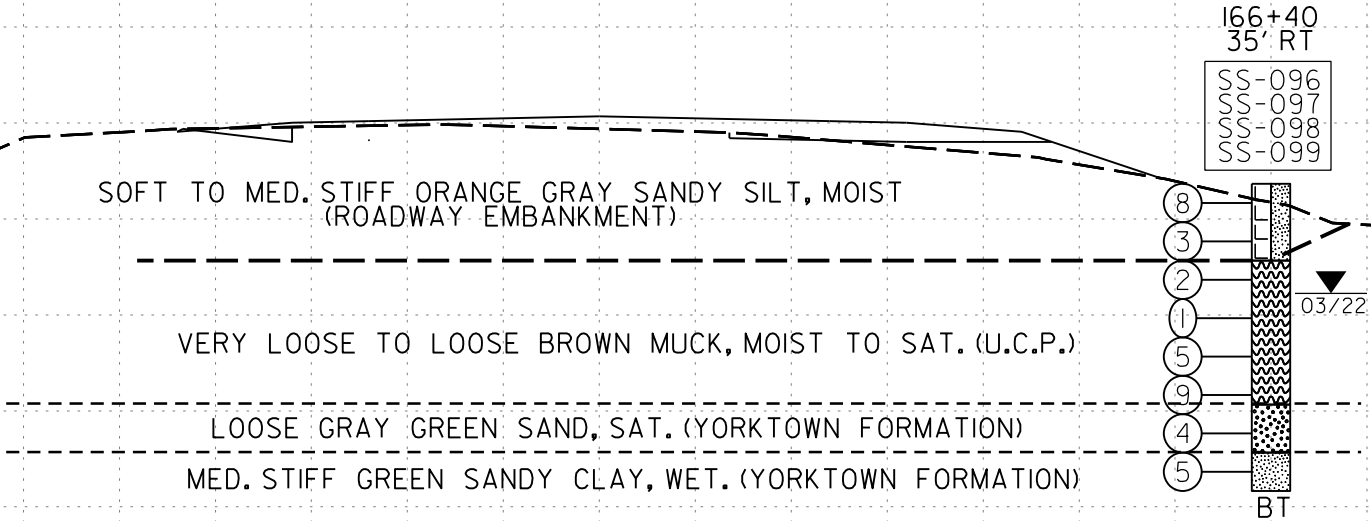
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PROJ. REFERENCE NO.
R-5808

SHEET NO.
328

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	-	-



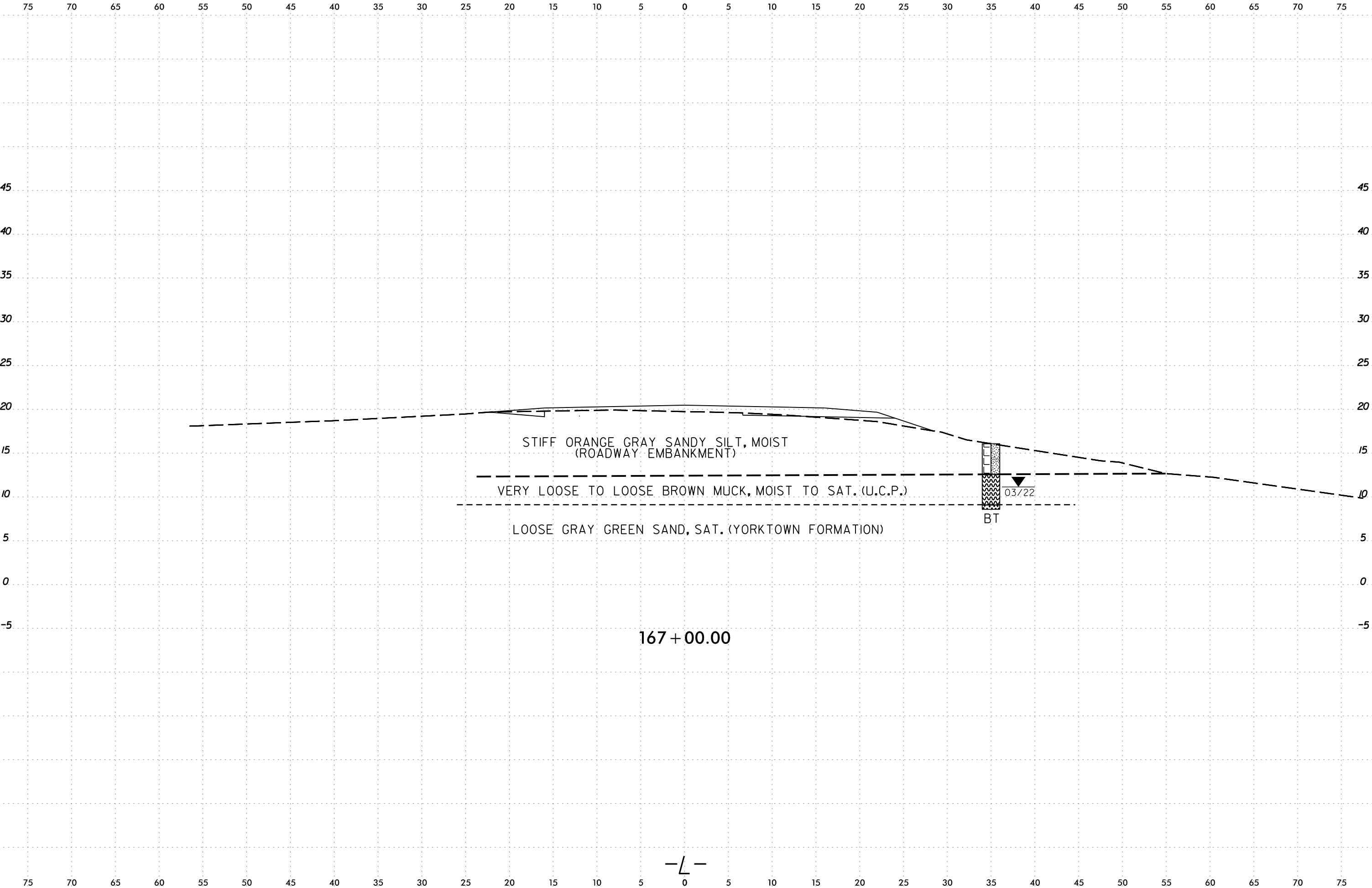
166 + 50.00

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Lee Stone AT LSTONE-CAD-PC

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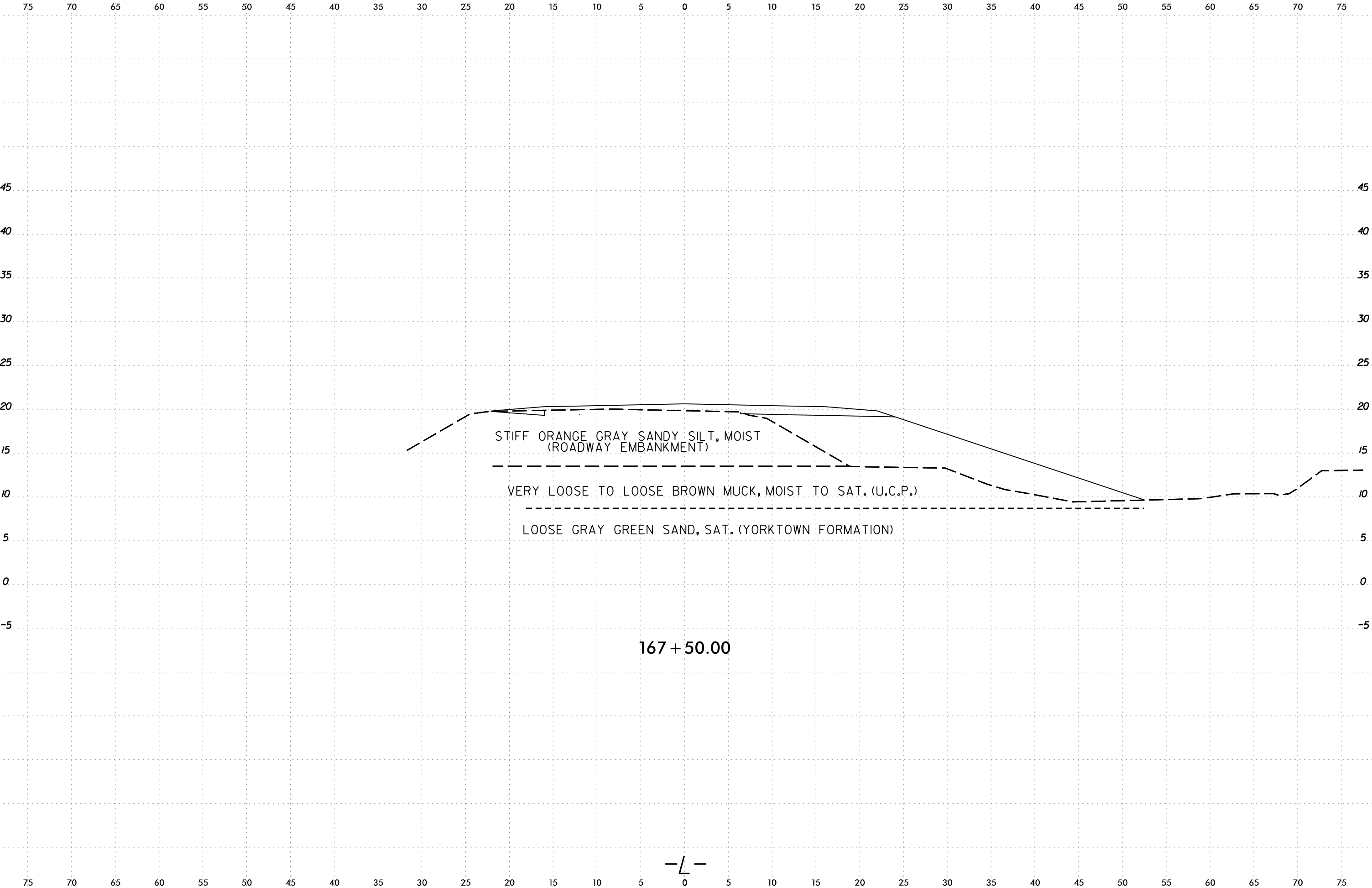


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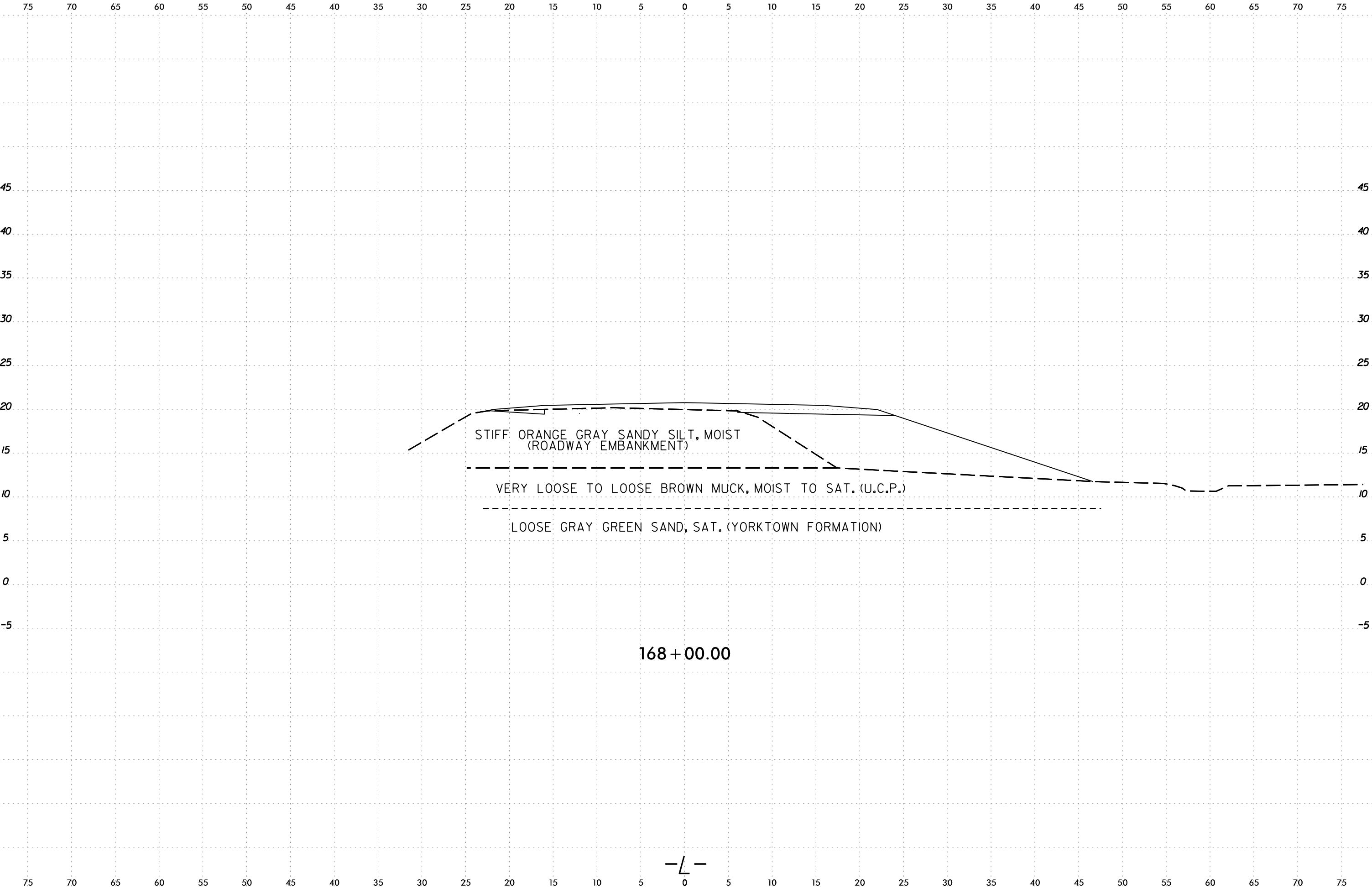
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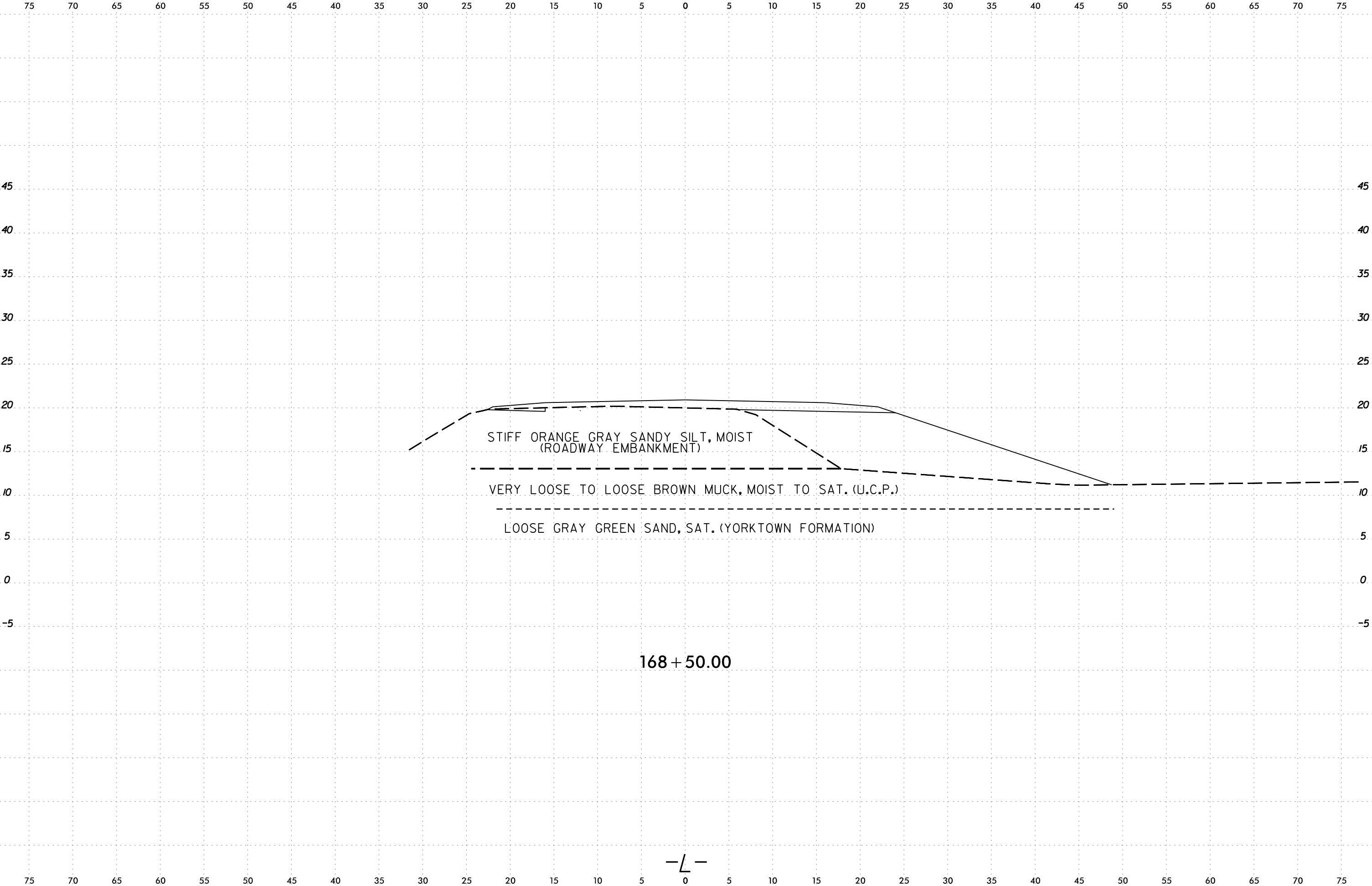
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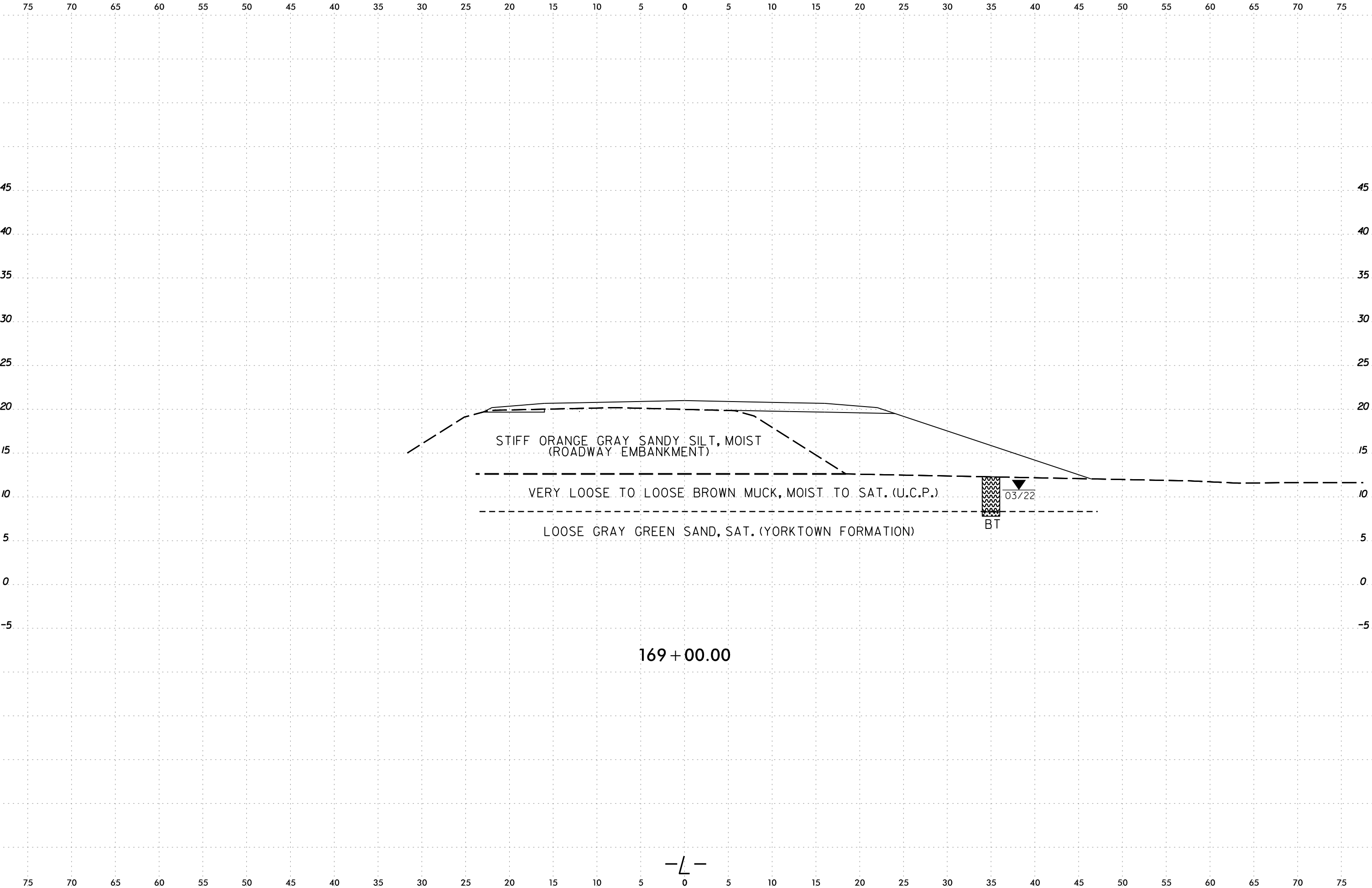
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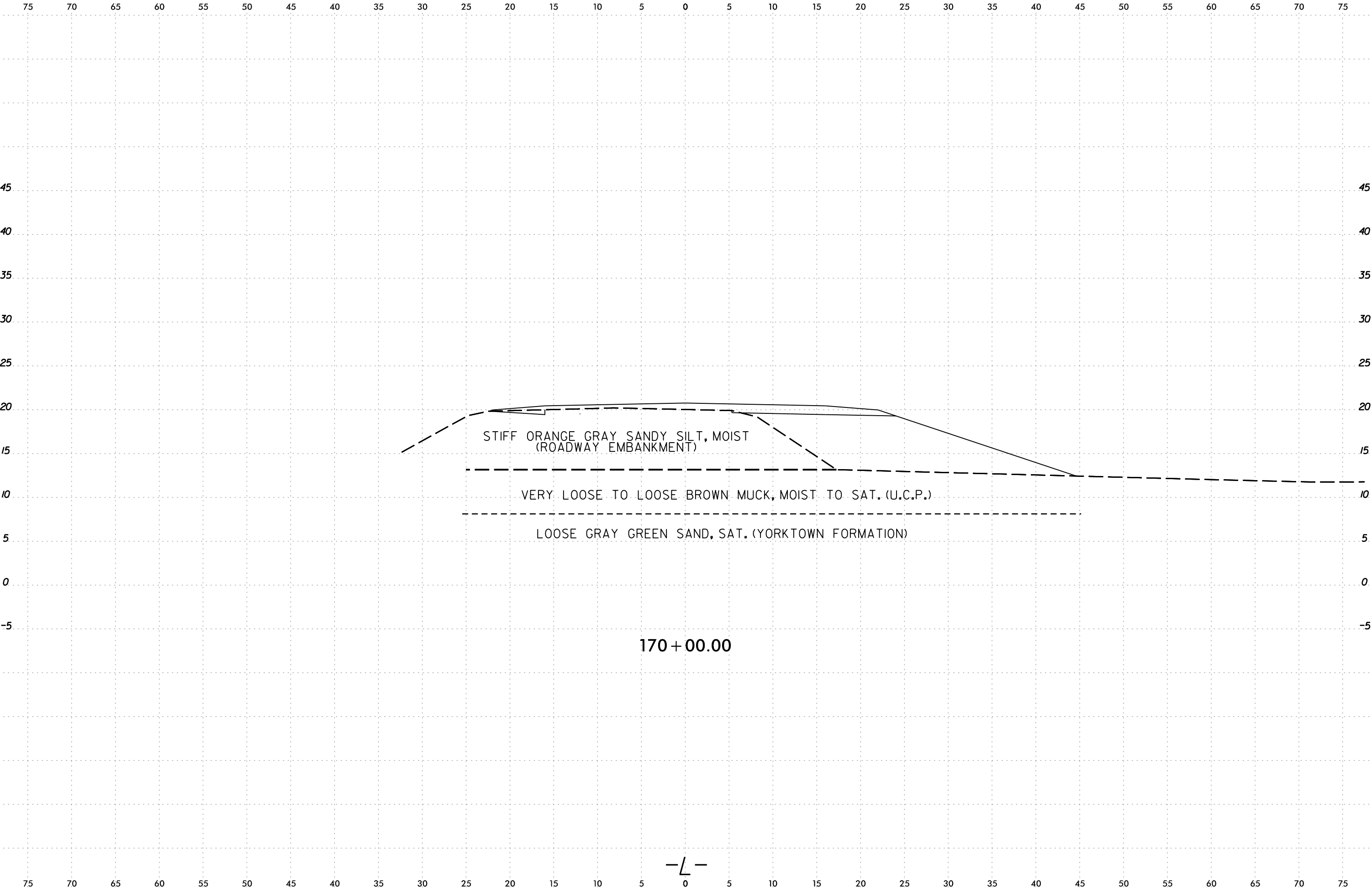
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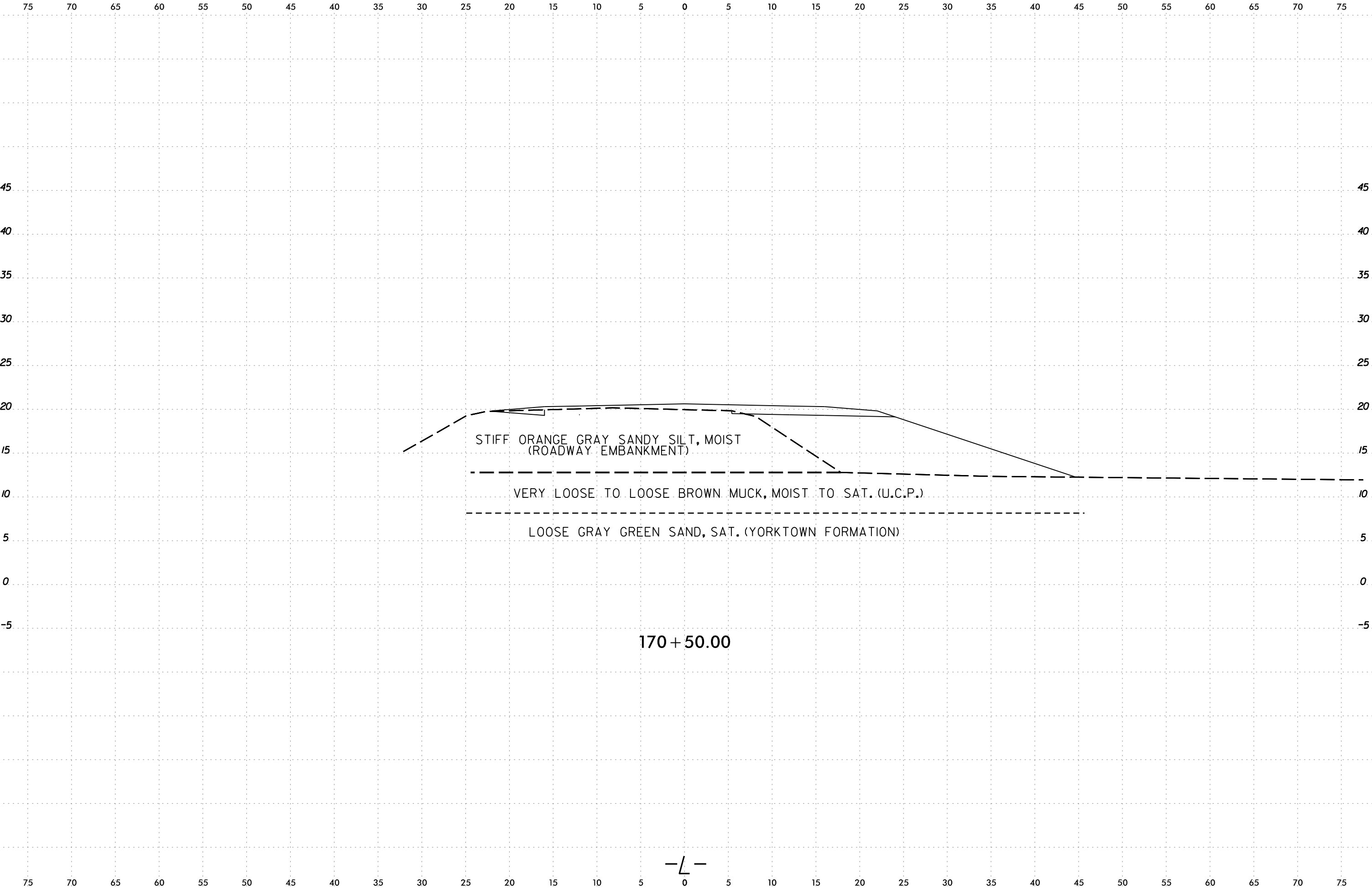
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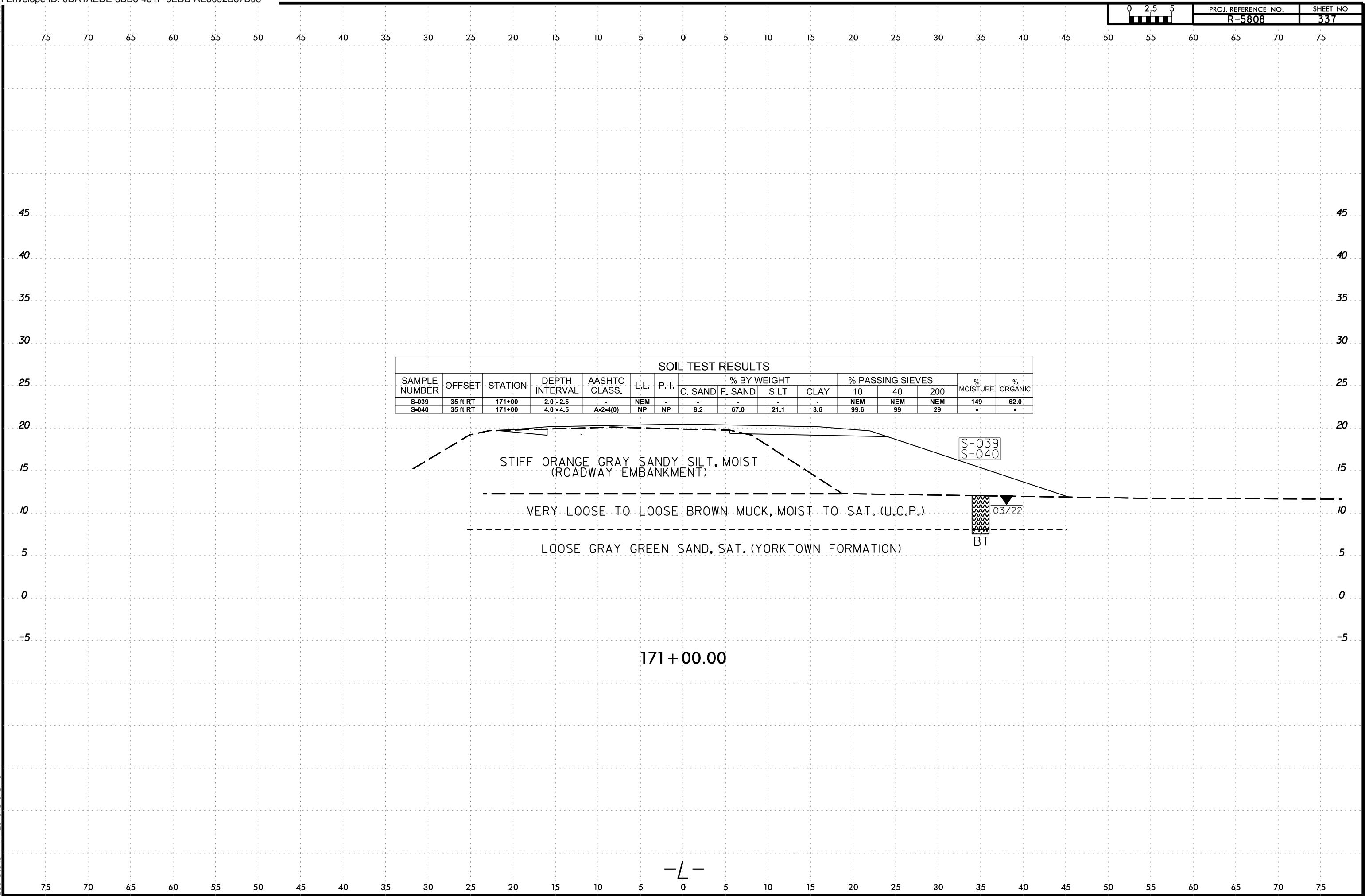


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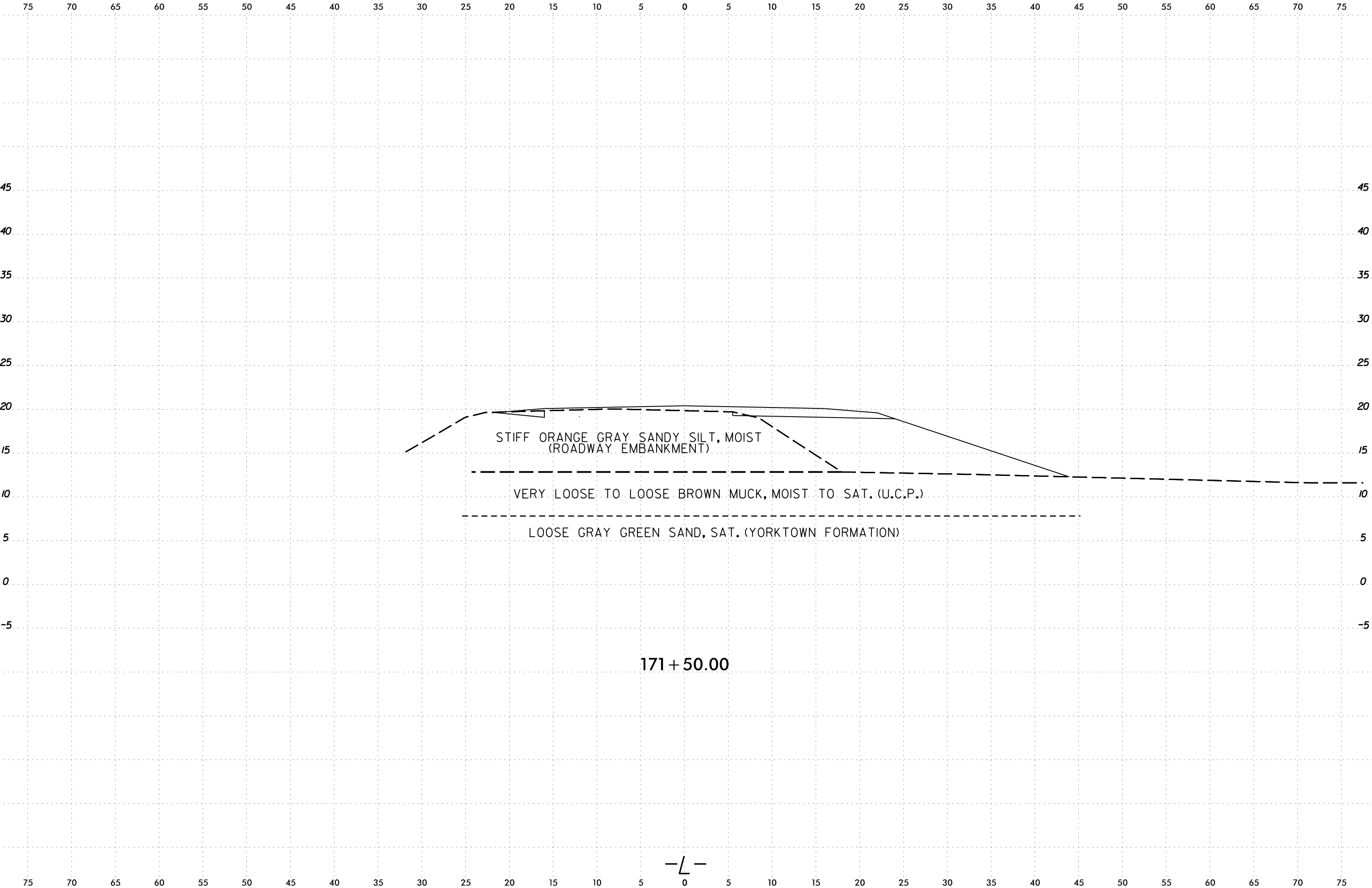




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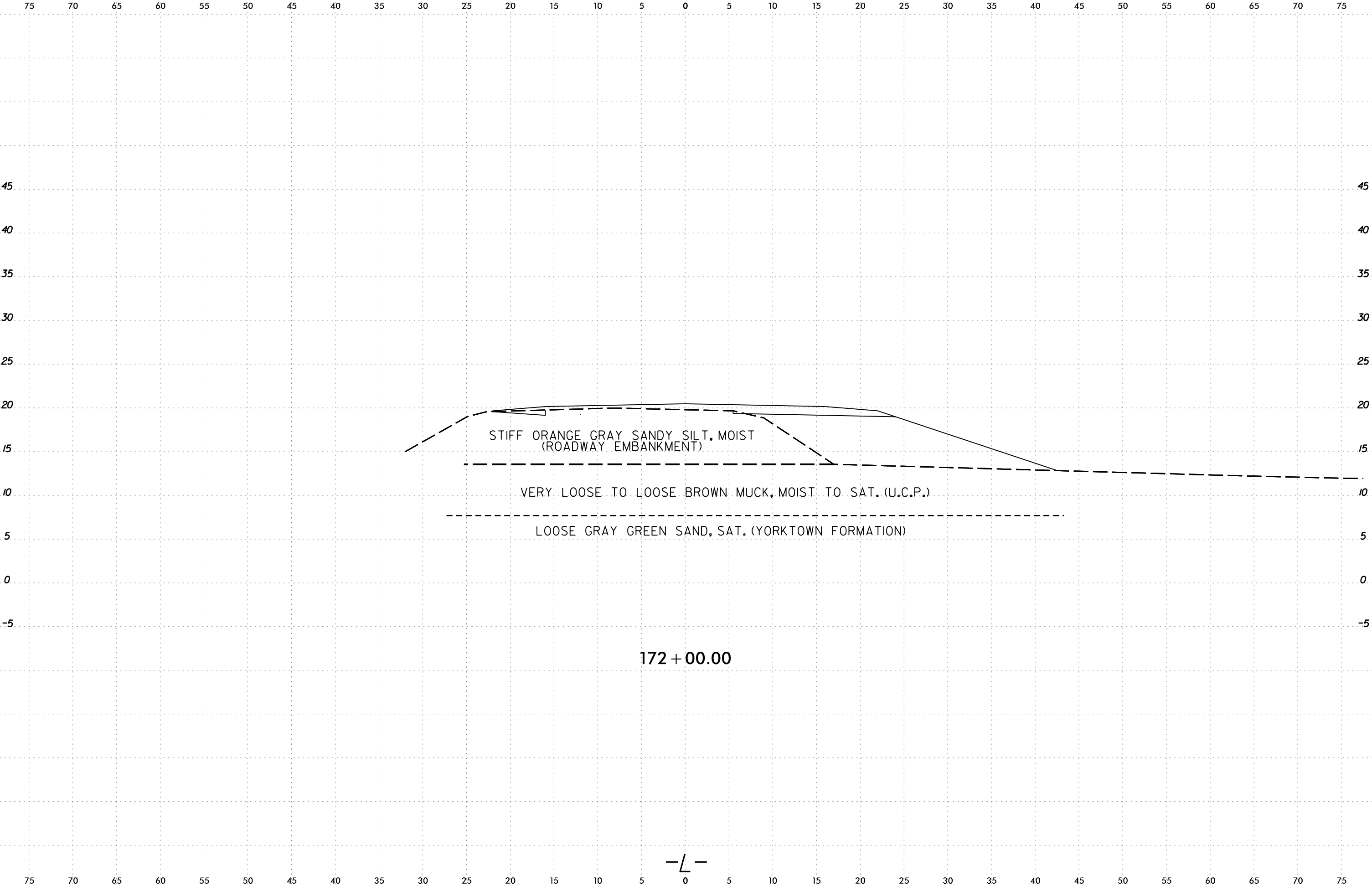
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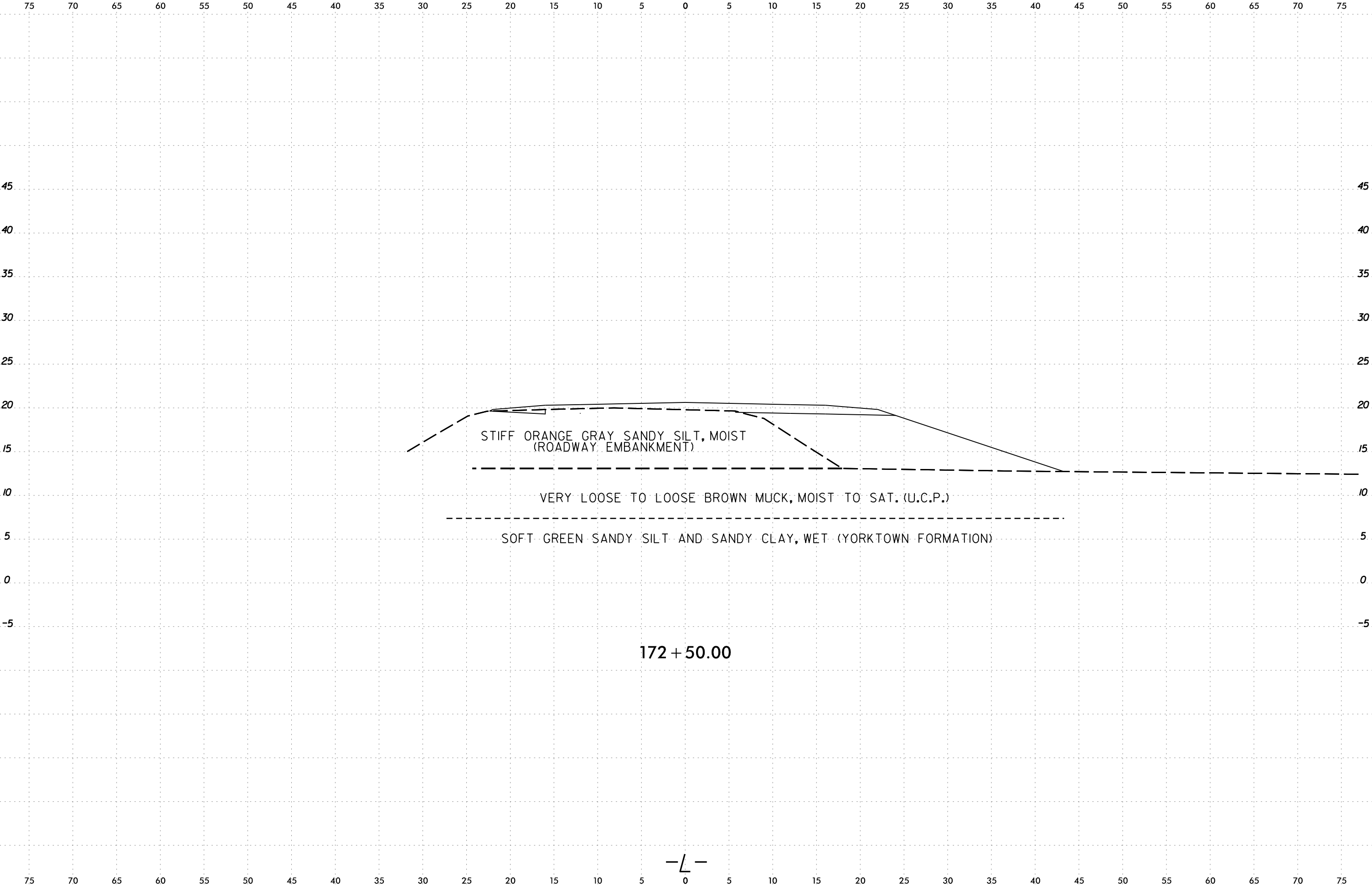
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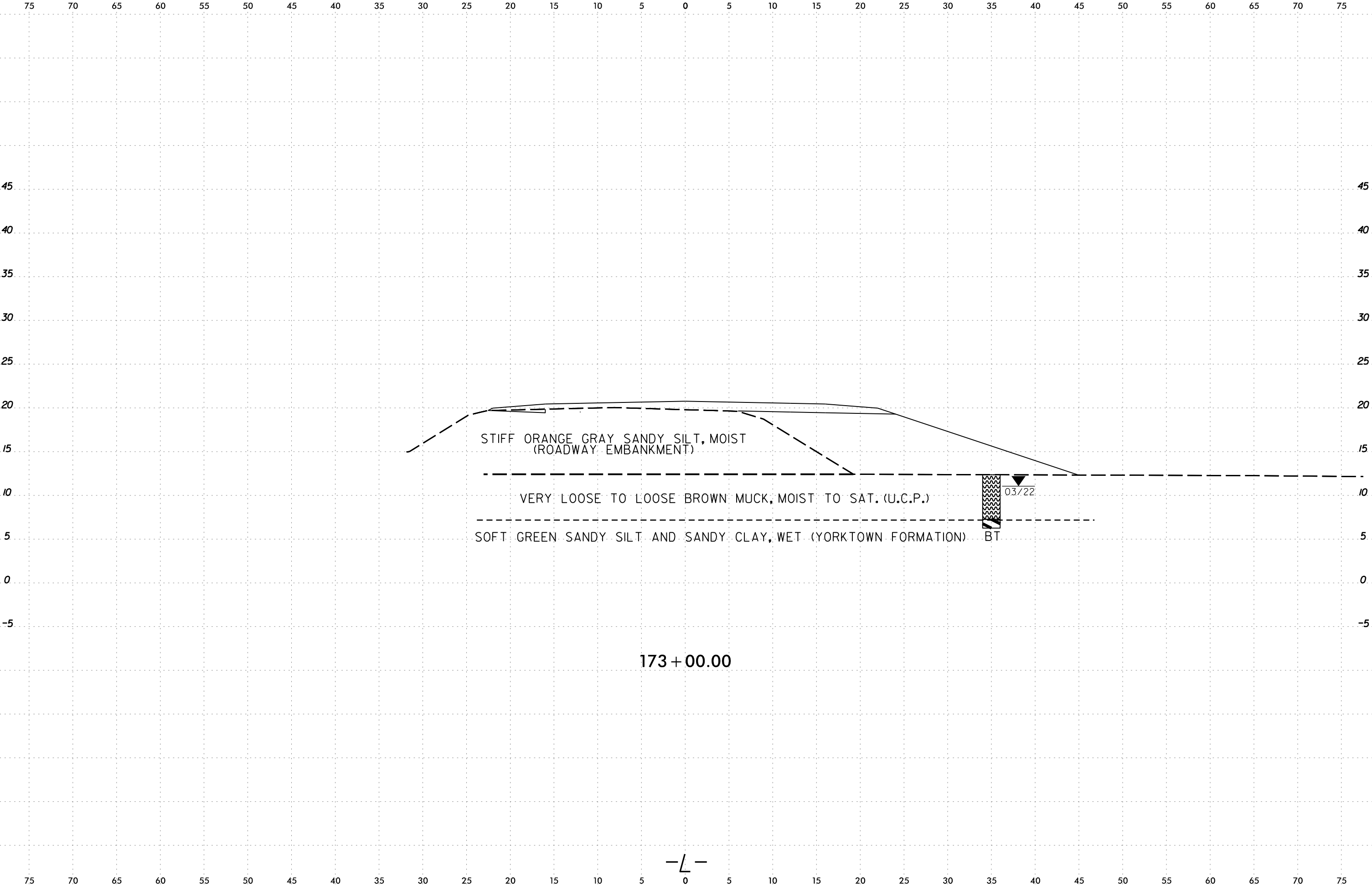
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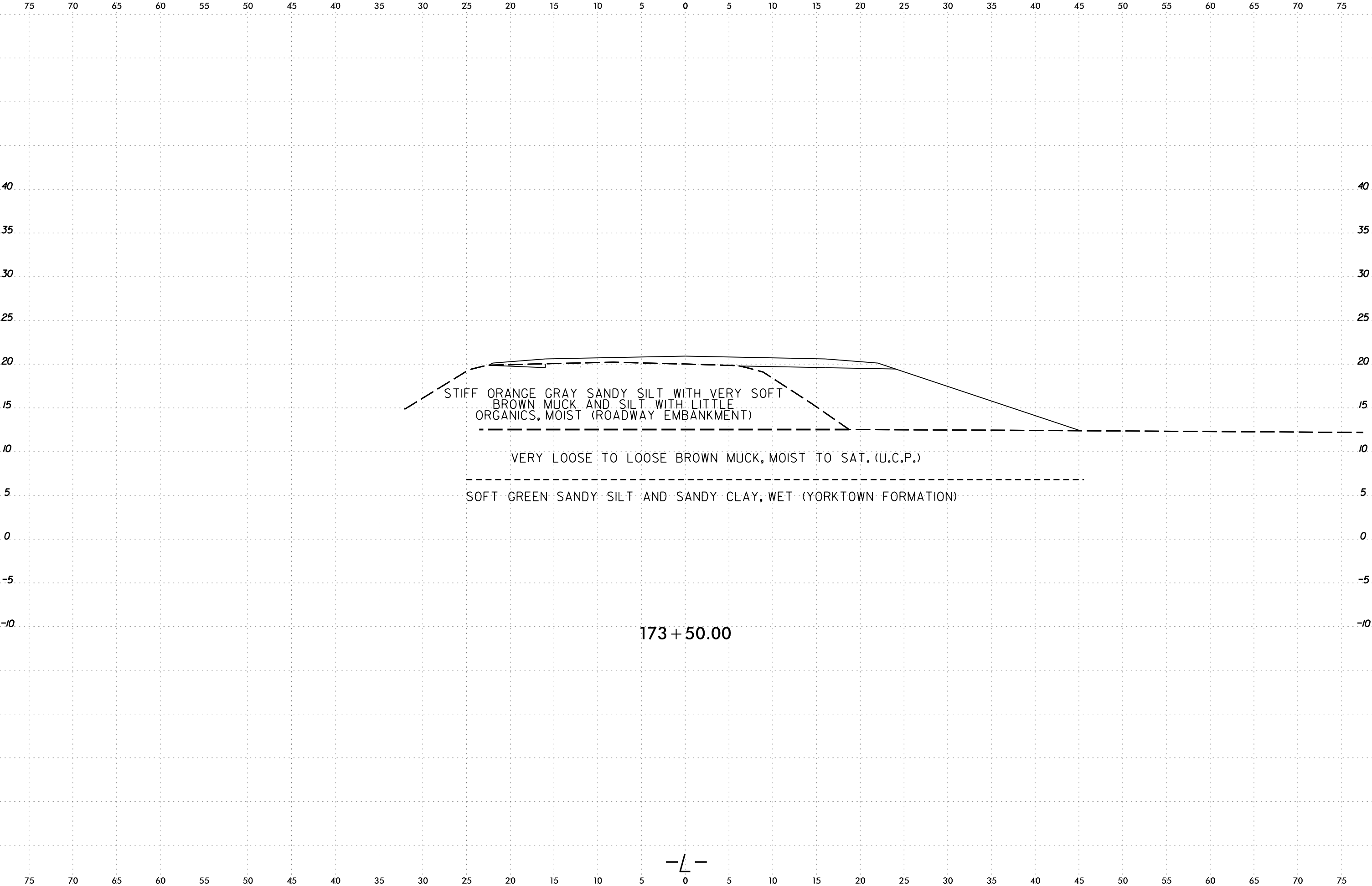
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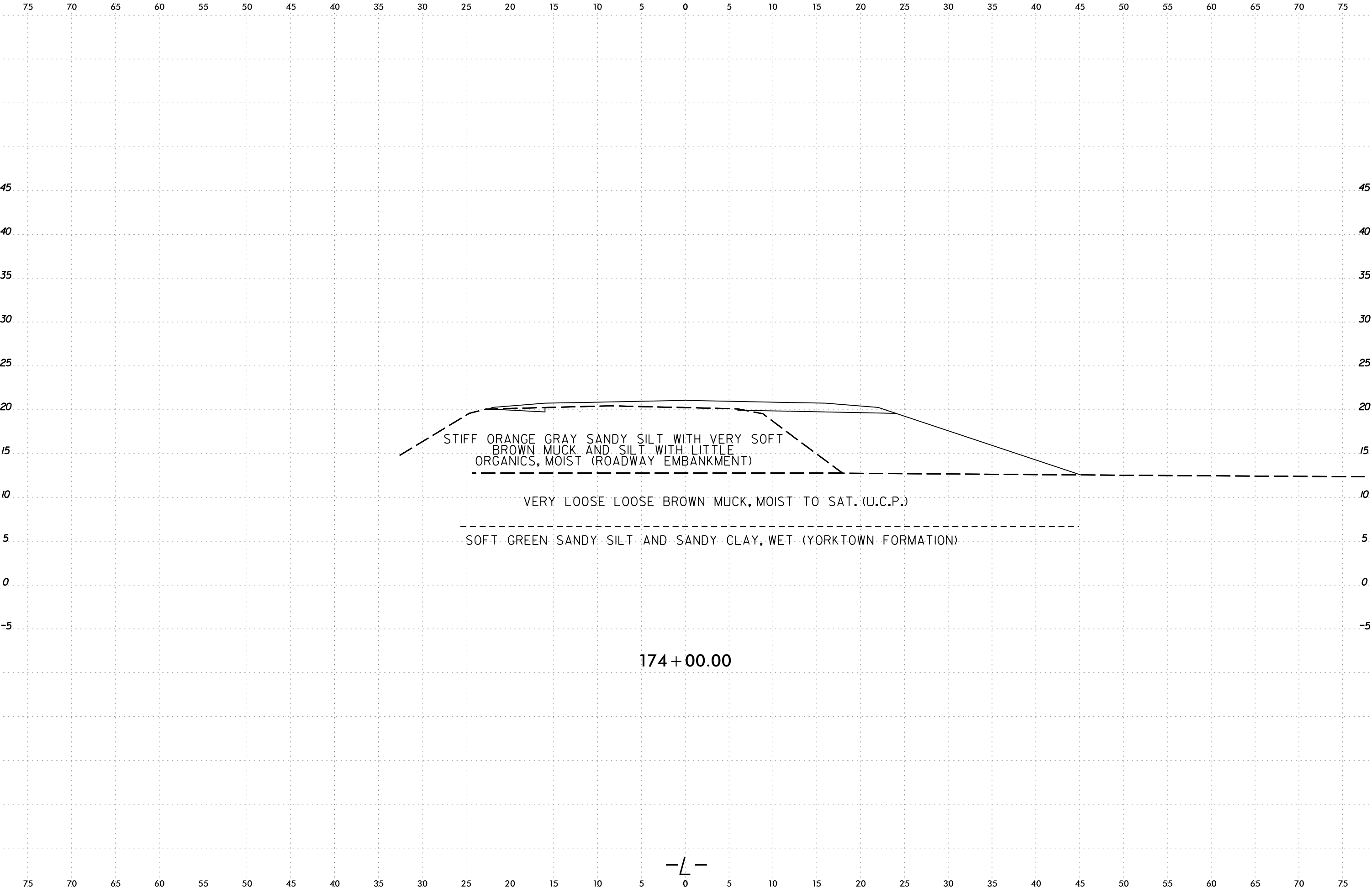
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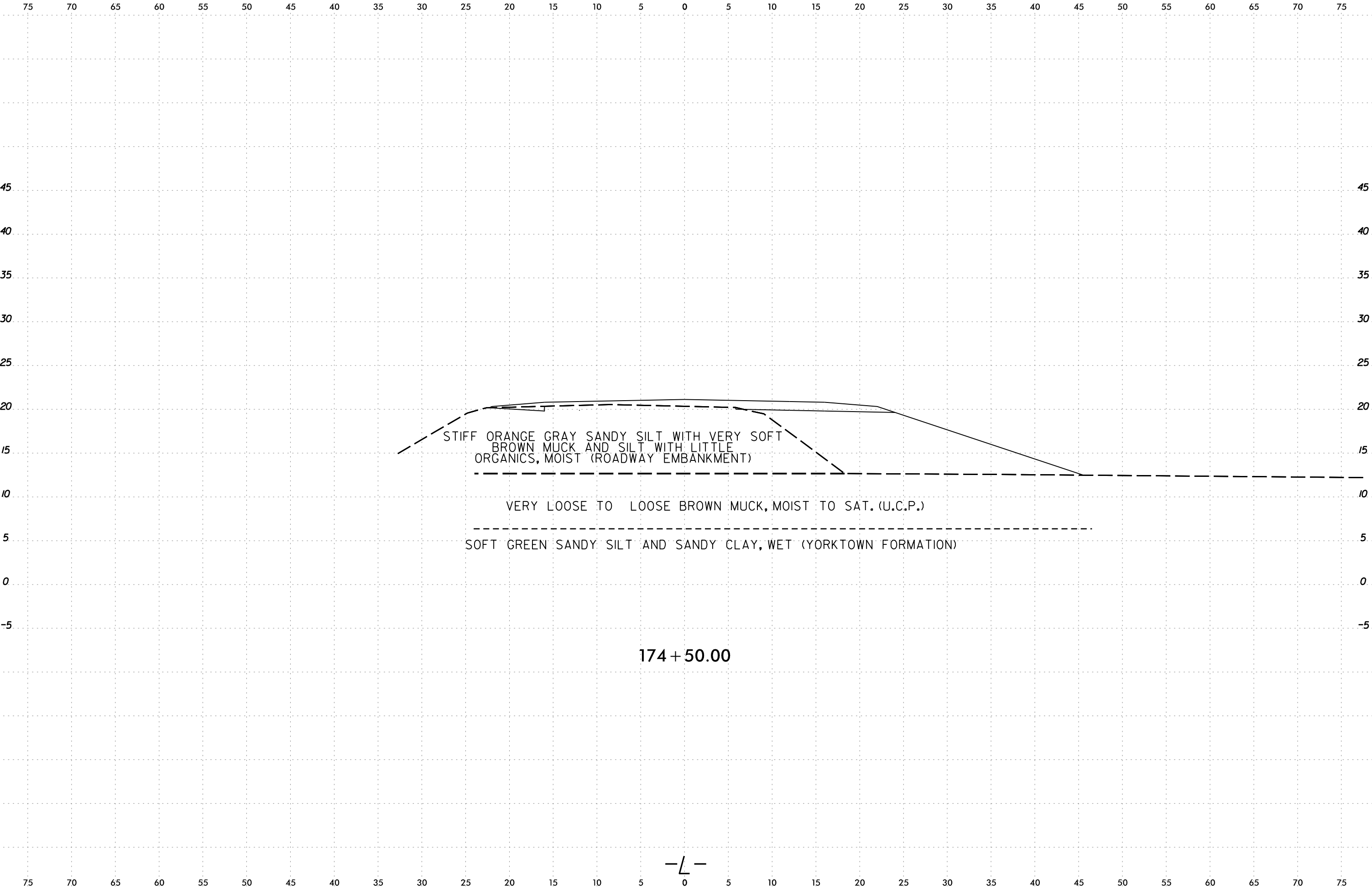


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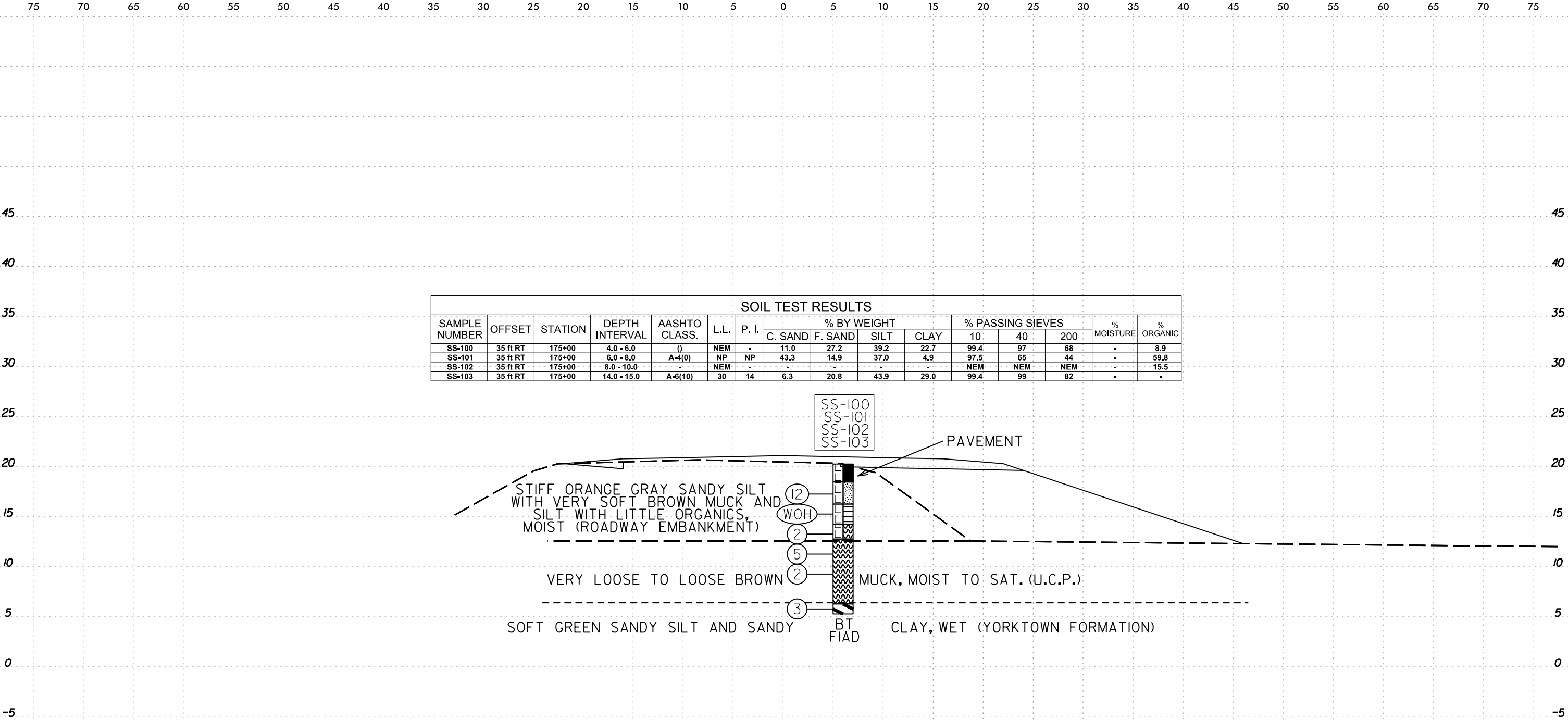
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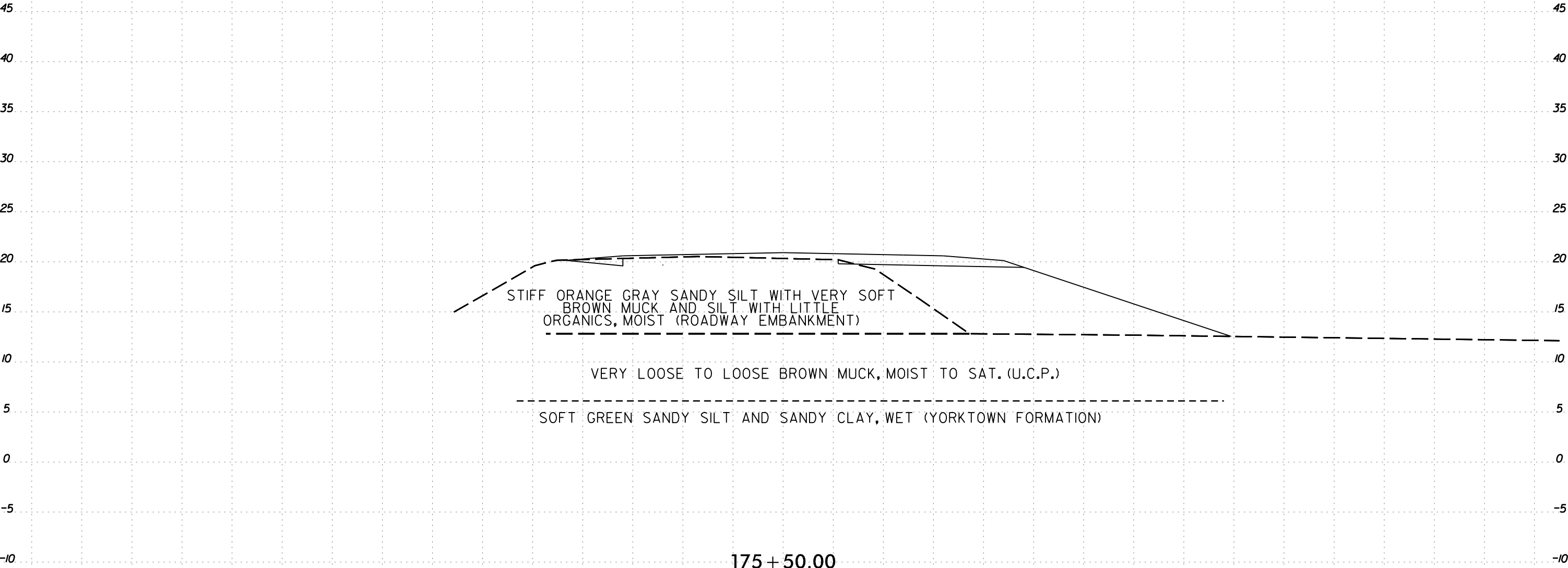


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	PROJ. REFERENCE NO.	SHEET NO.
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



175+50.00

—L—

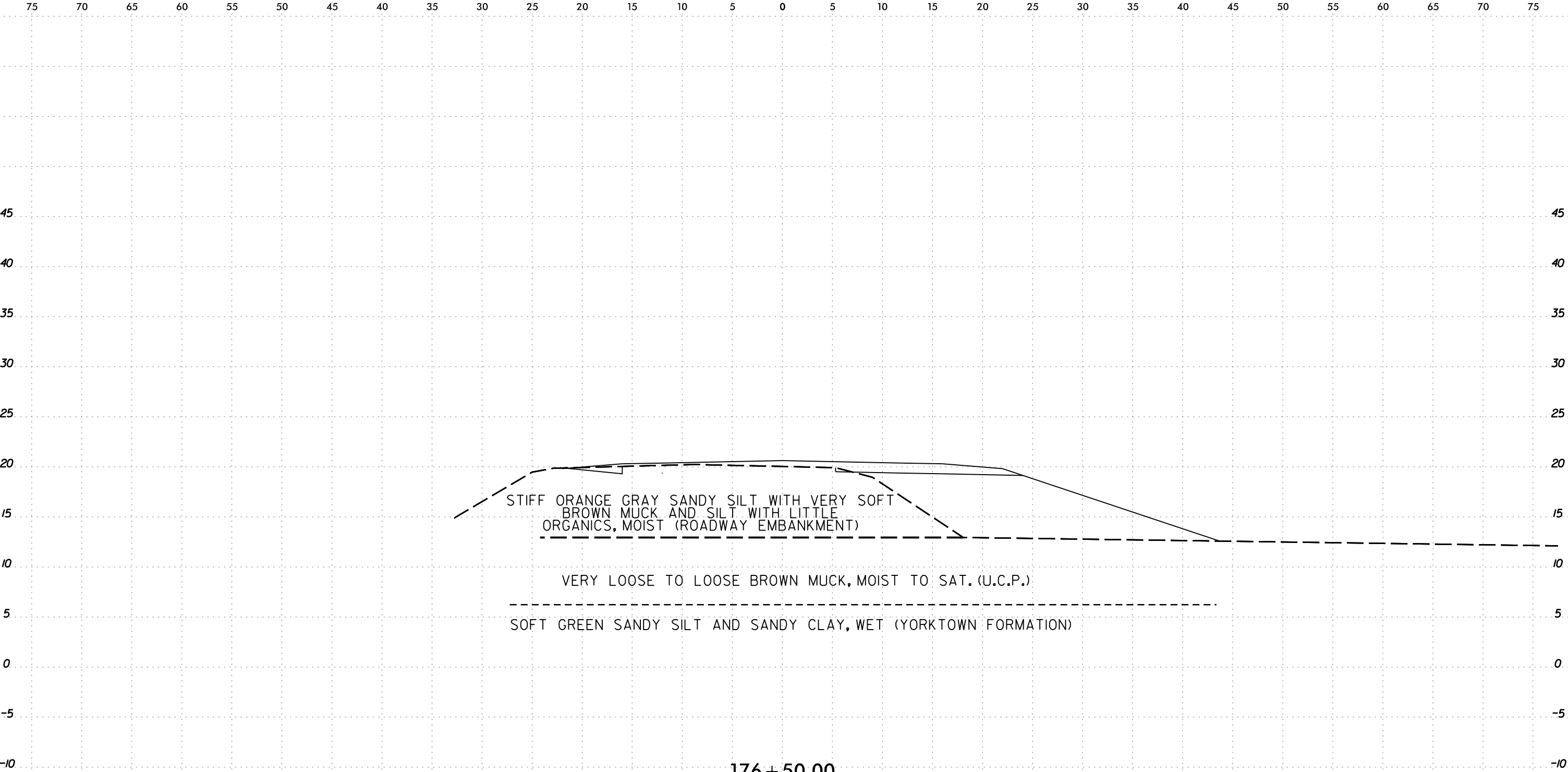
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	348

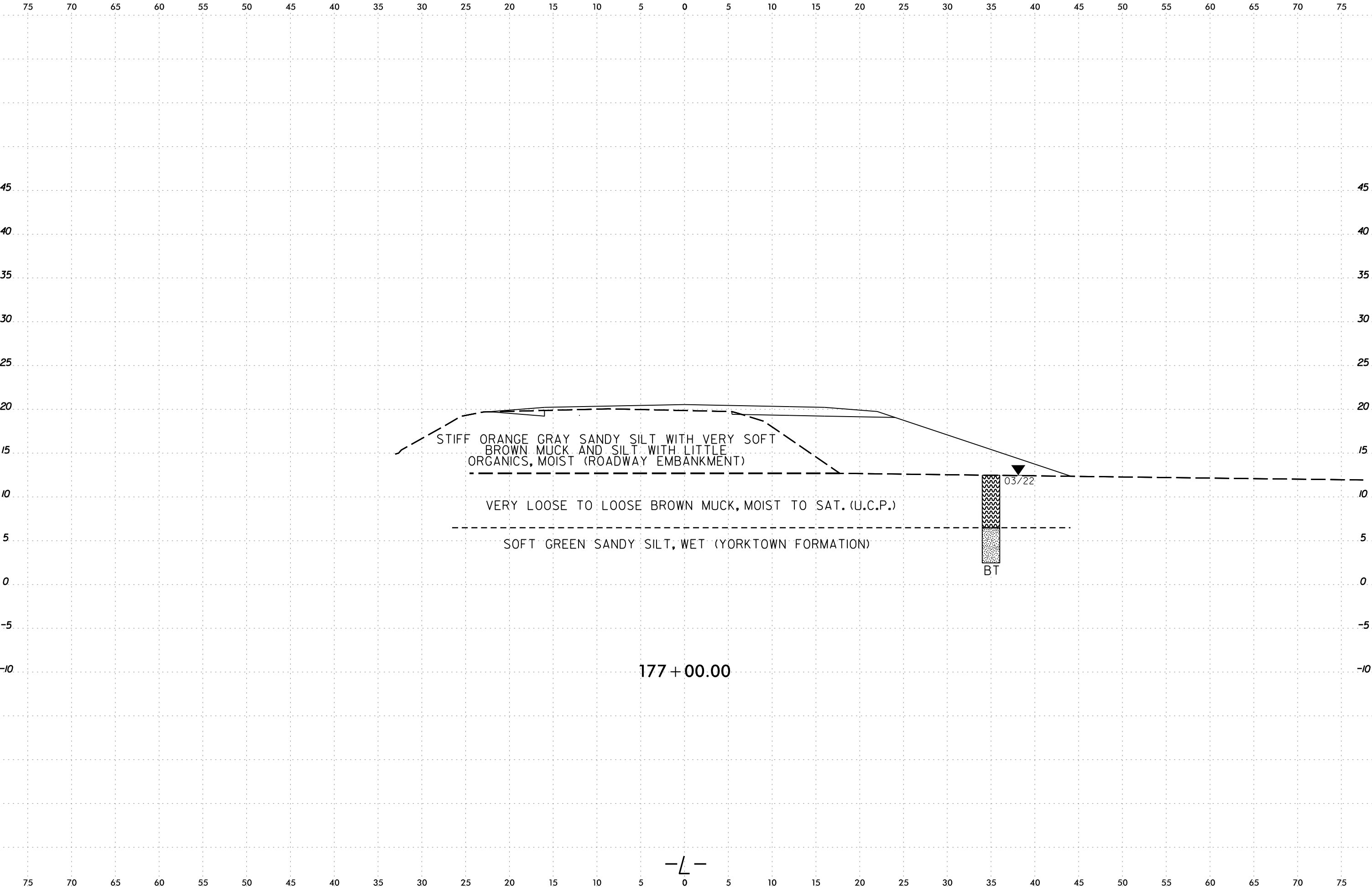


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6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	349

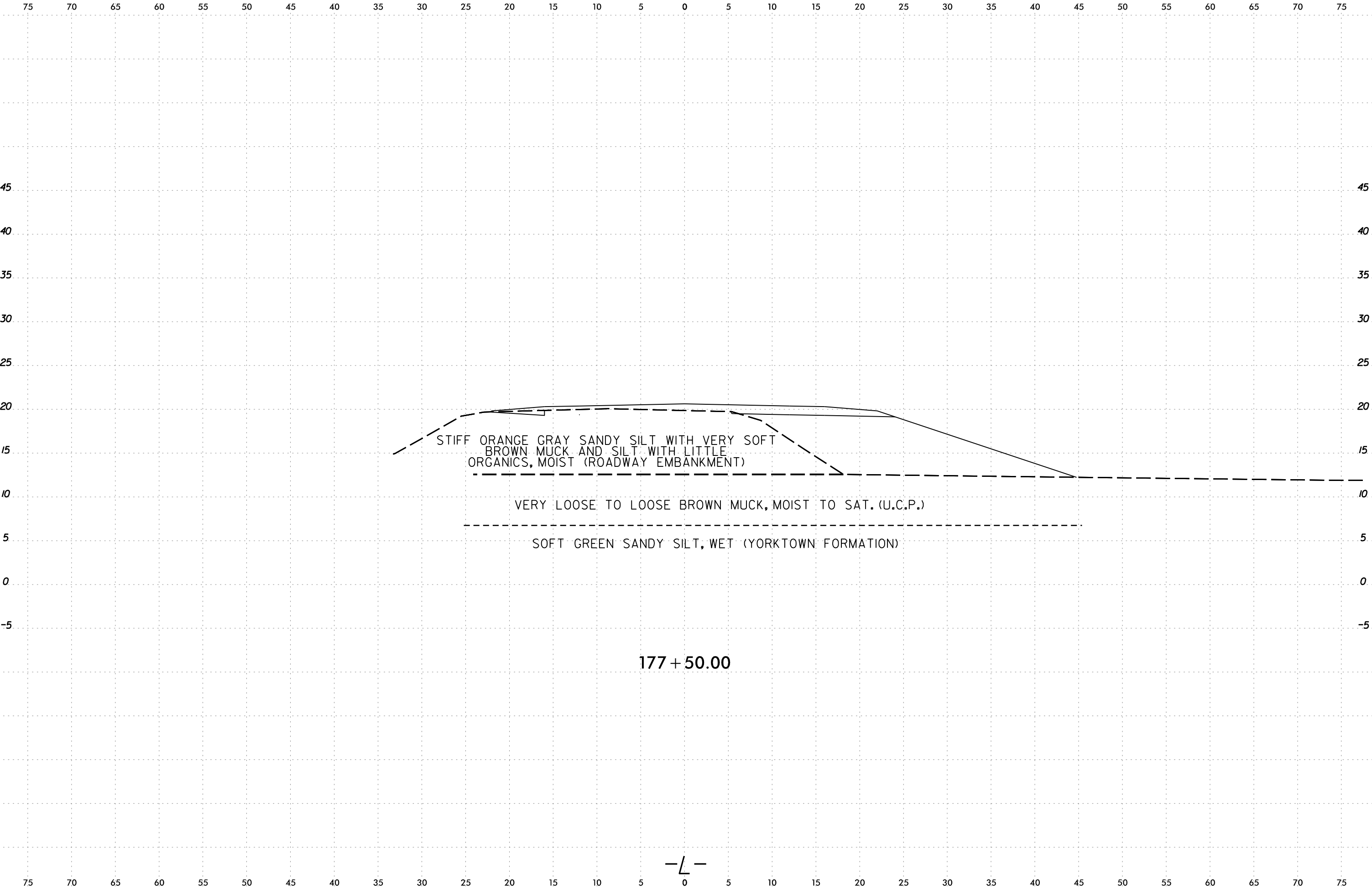


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6/23/16

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Lee Stone AT LSTONE-CAD-PC

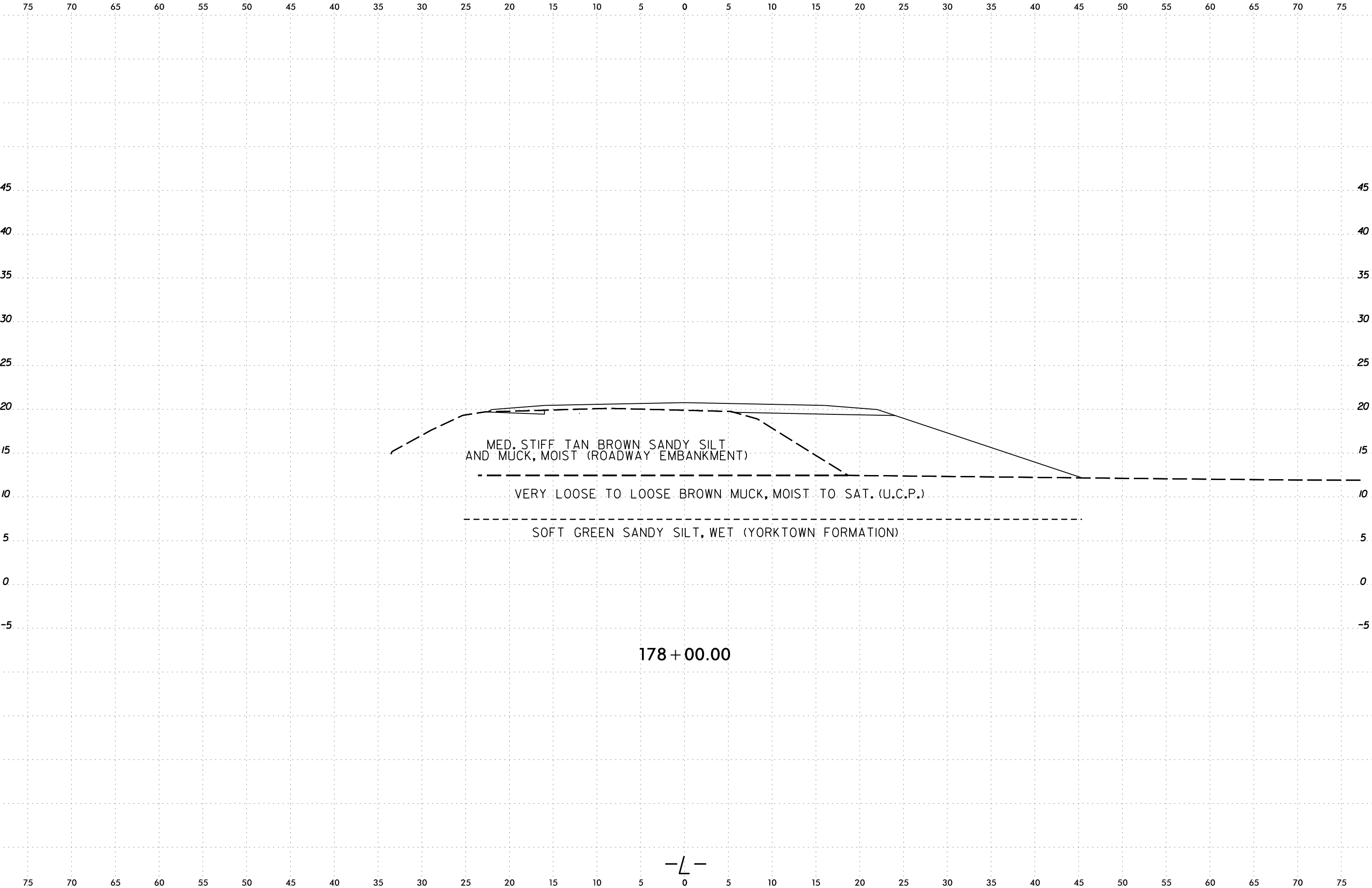
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	R-5808	350



6/23/16

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Lee Stone AT LSTONE-CAD-PC

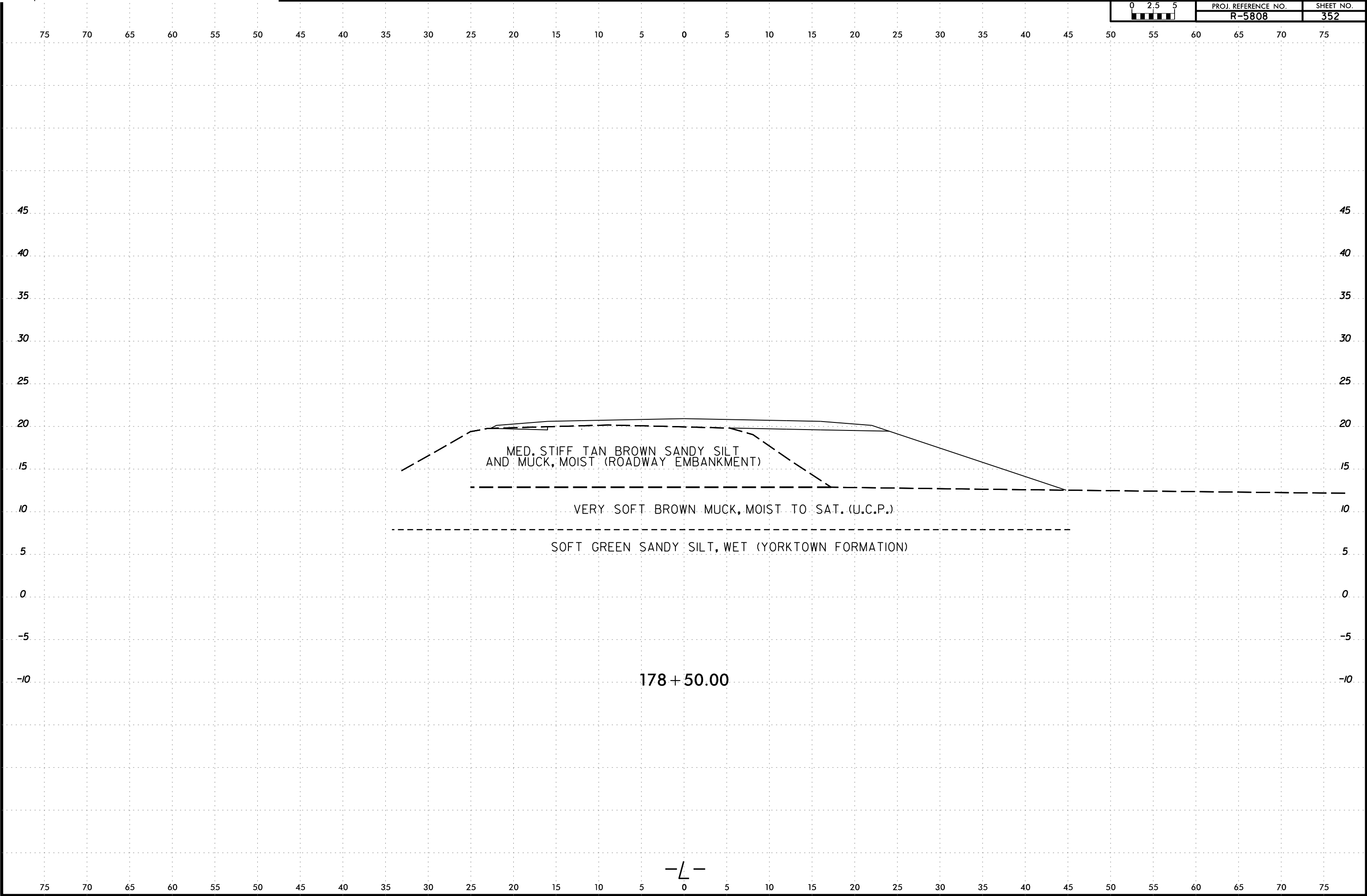
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	R-5808	351



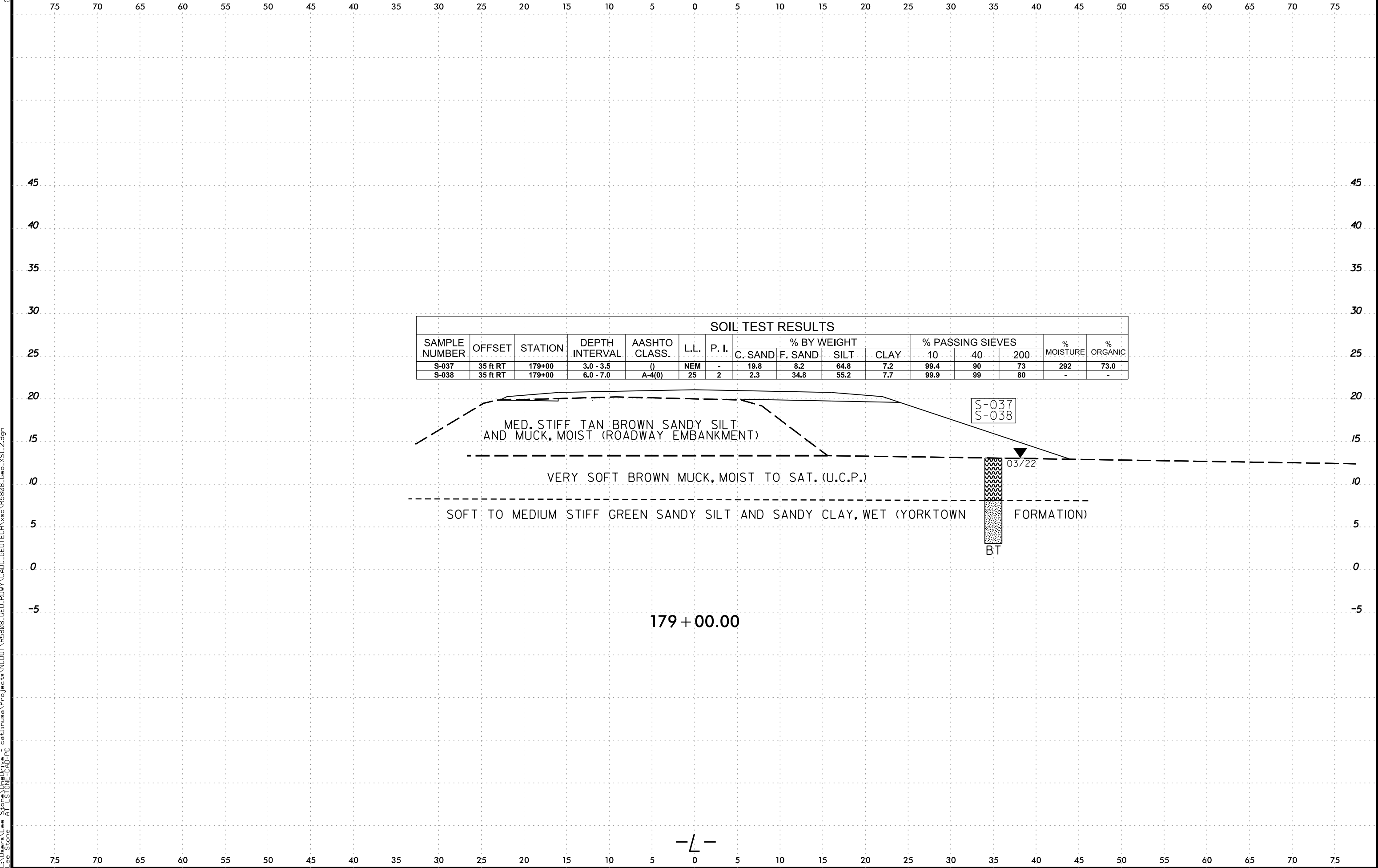
6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	352



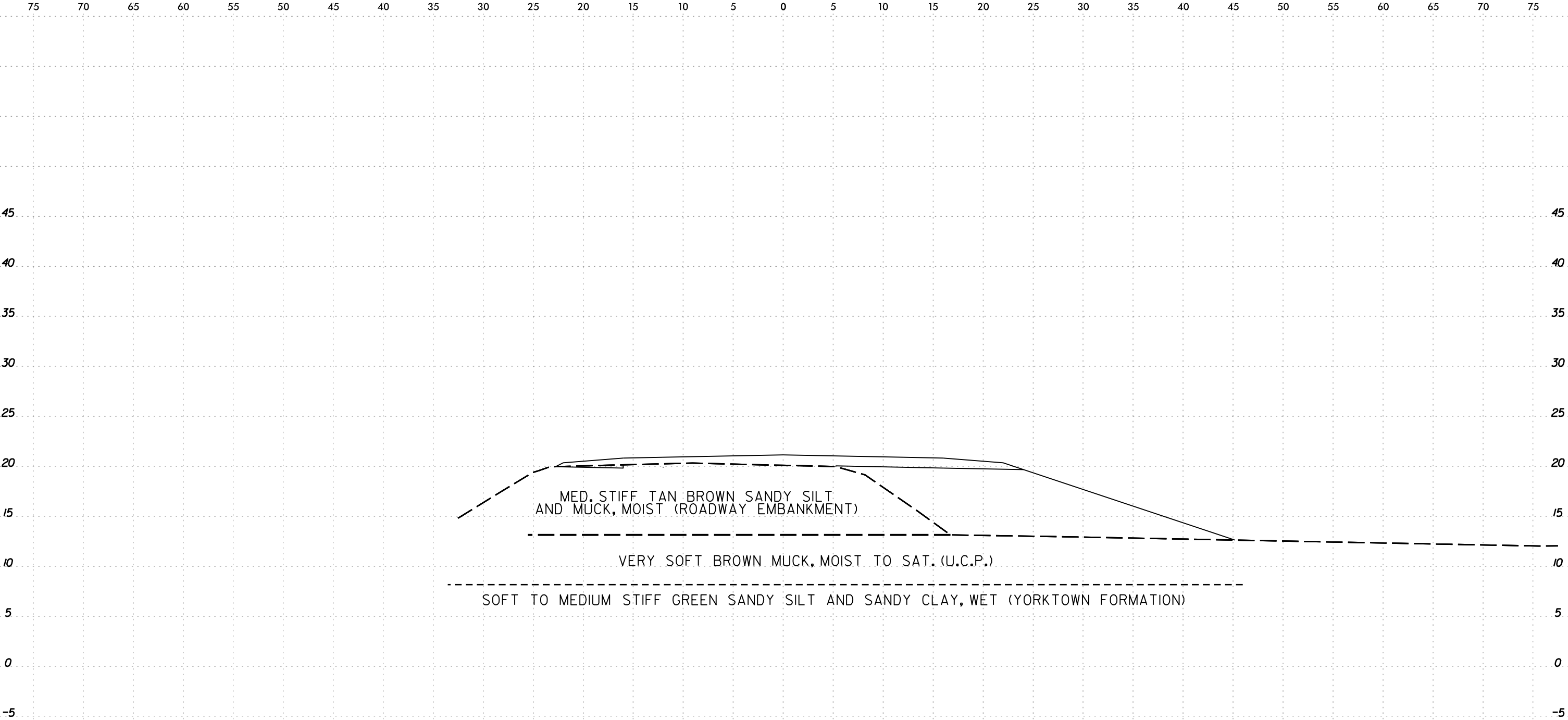
6/23/16



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	-	-

6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	354



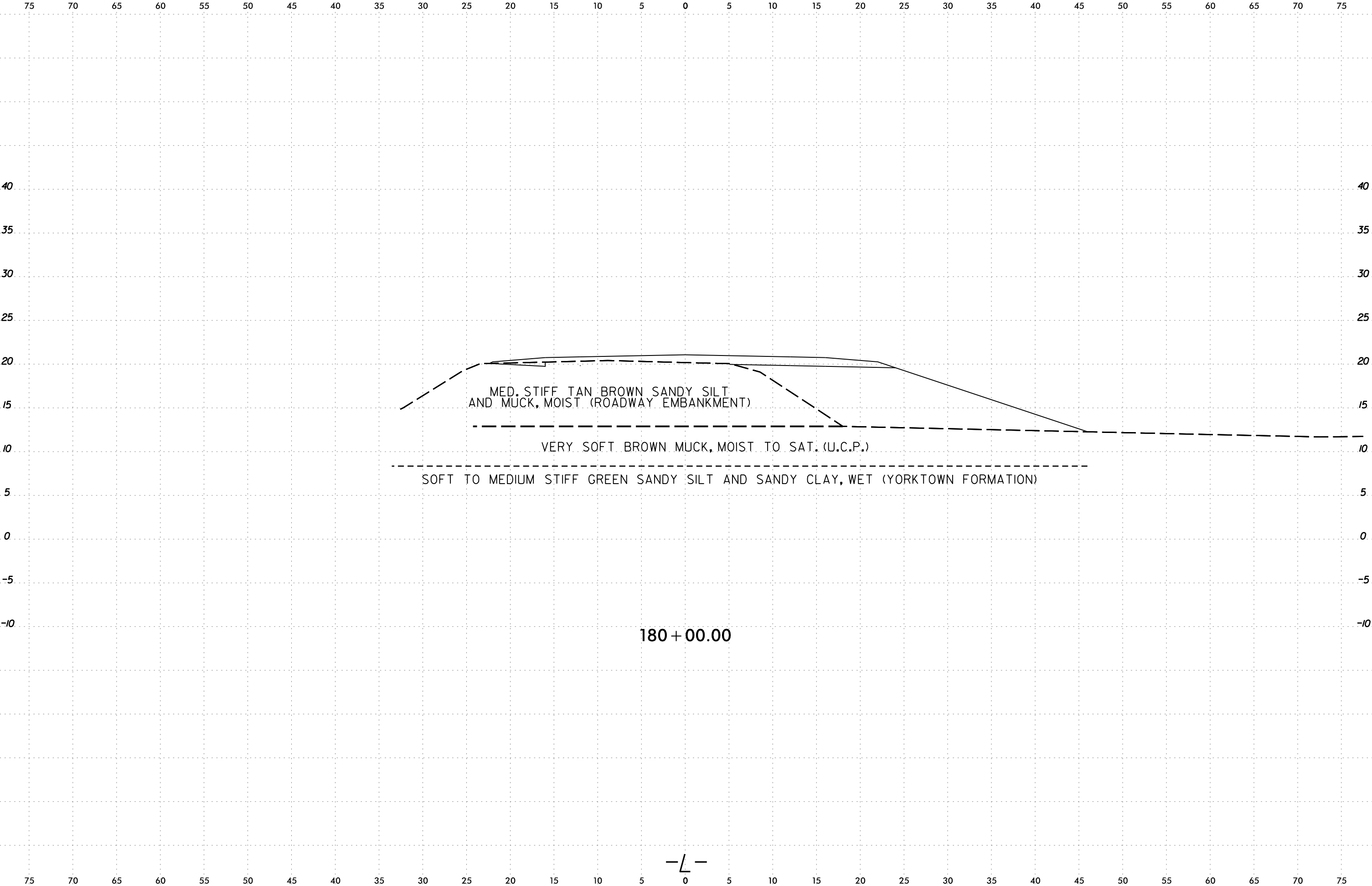
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6/23/16

10-JAN-2023 11:57
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Lee Stone AT LSTONE-CAD-PC

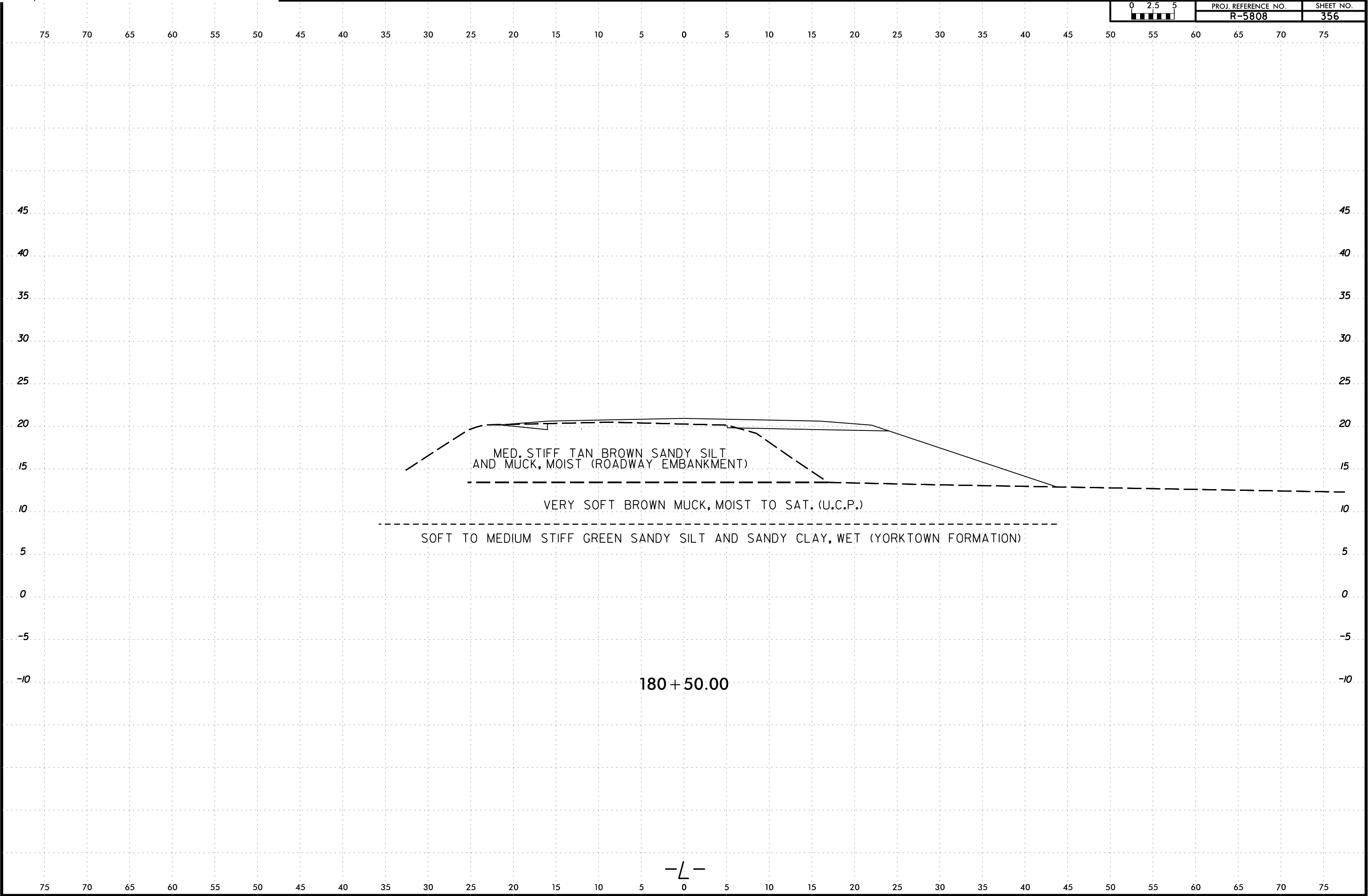
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	R-5808	355



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	356

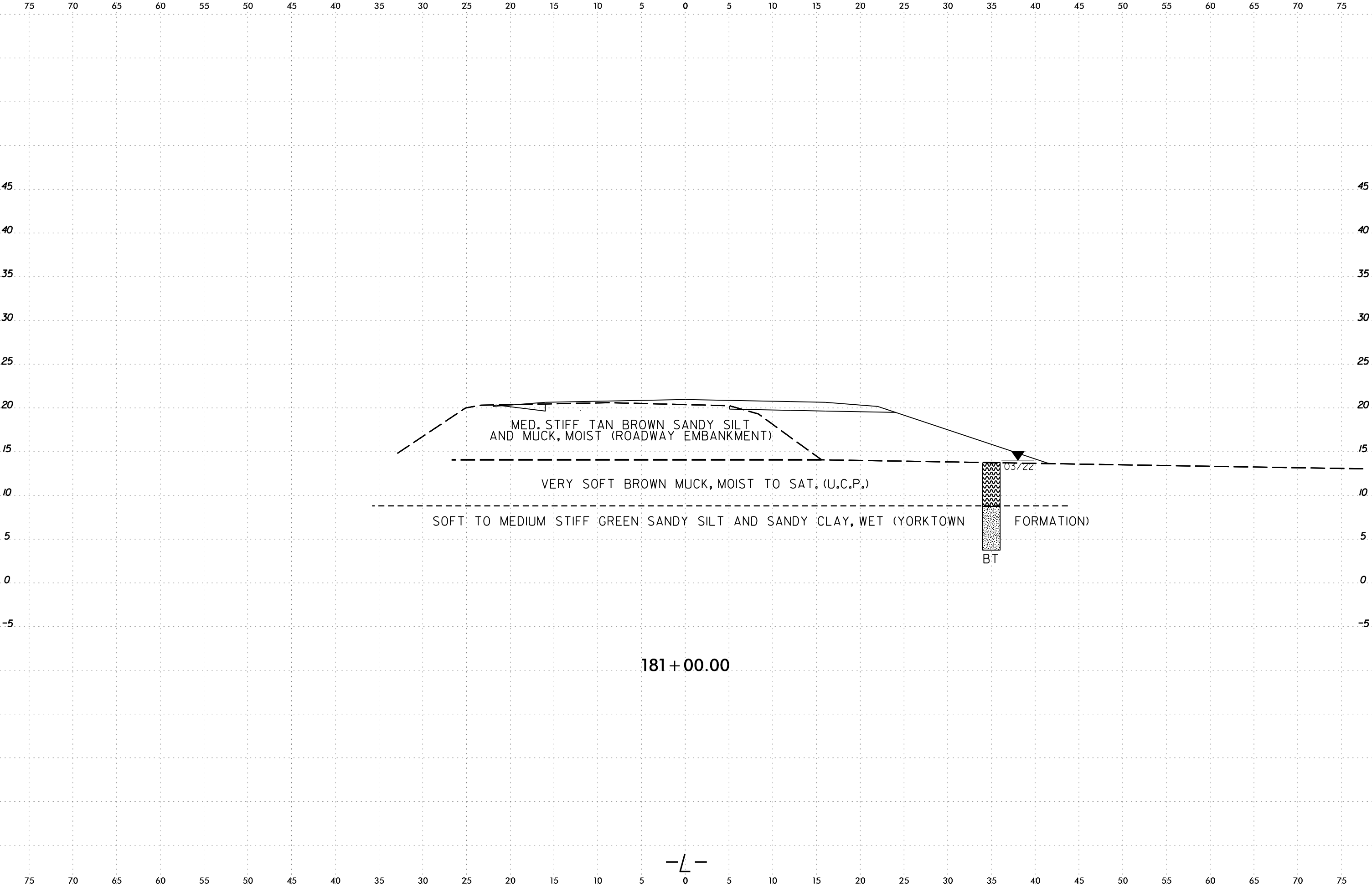


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Lee Stone AT LSTONE-CAD-PC

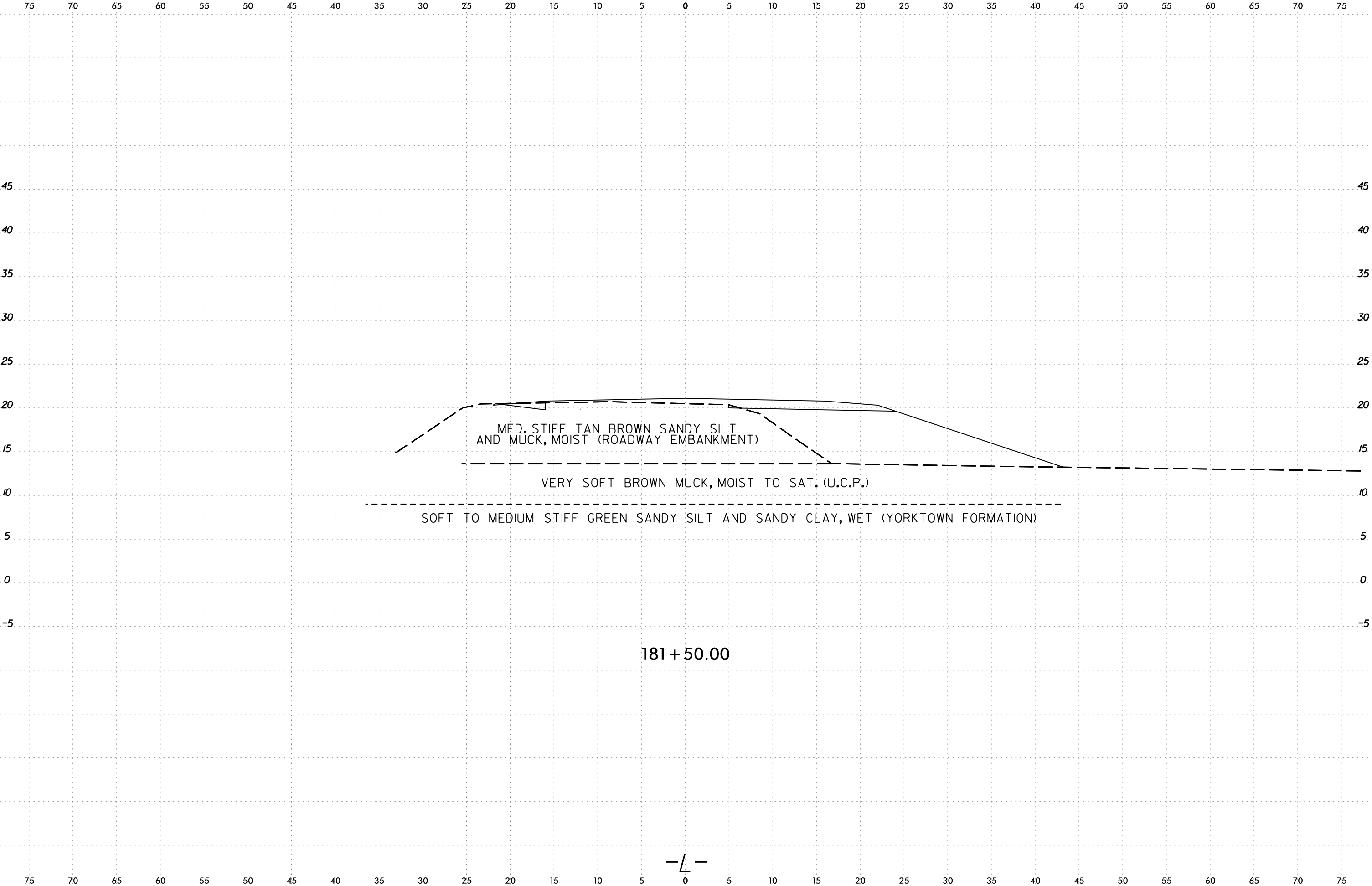
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	R-5808	357



6/23/16

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Lee Stone AT LSTONE-CAD-PC

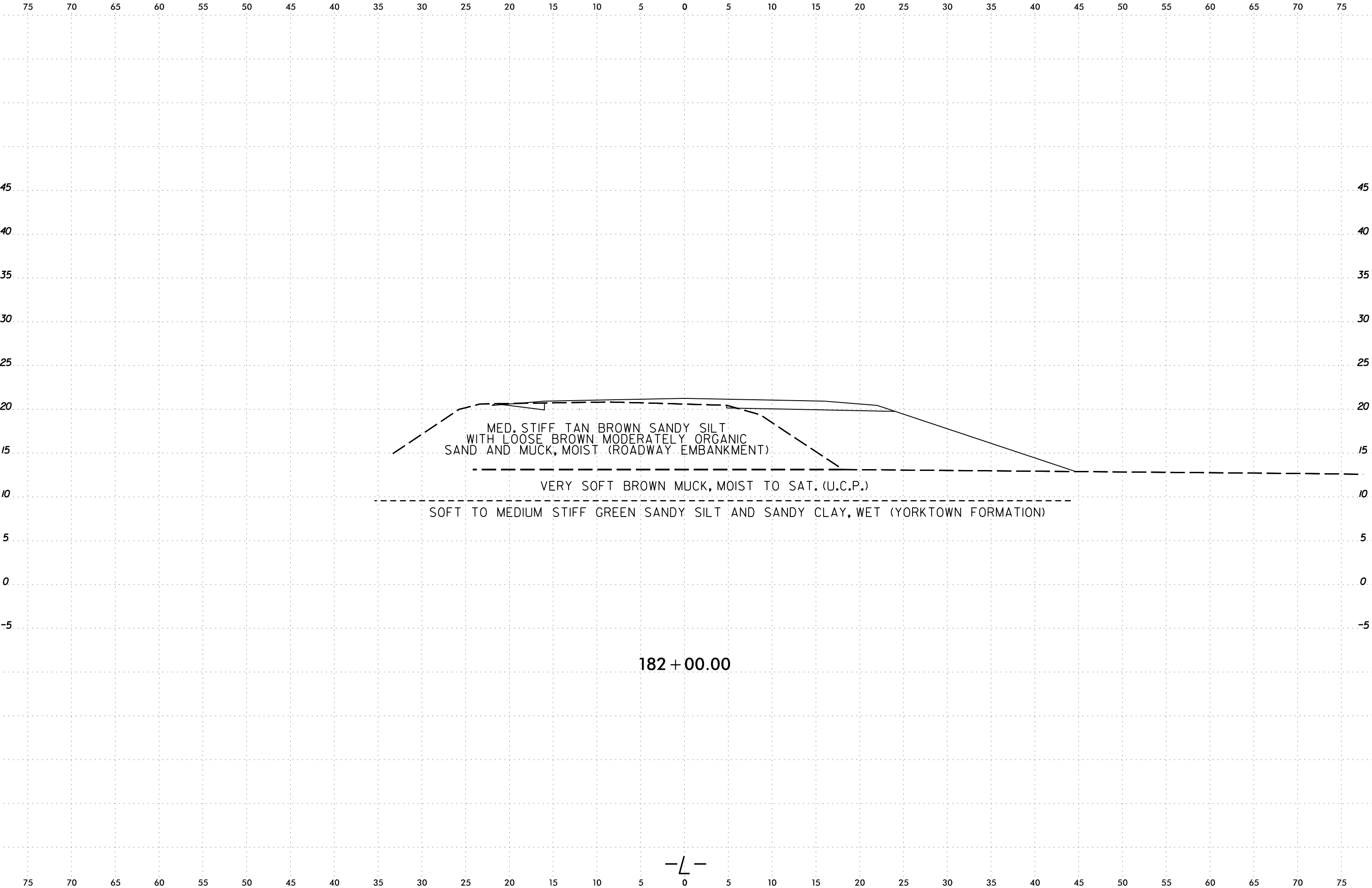
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	R-5808	358



6/23/16

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Lee Stone AT LSTONE-CAD-PC

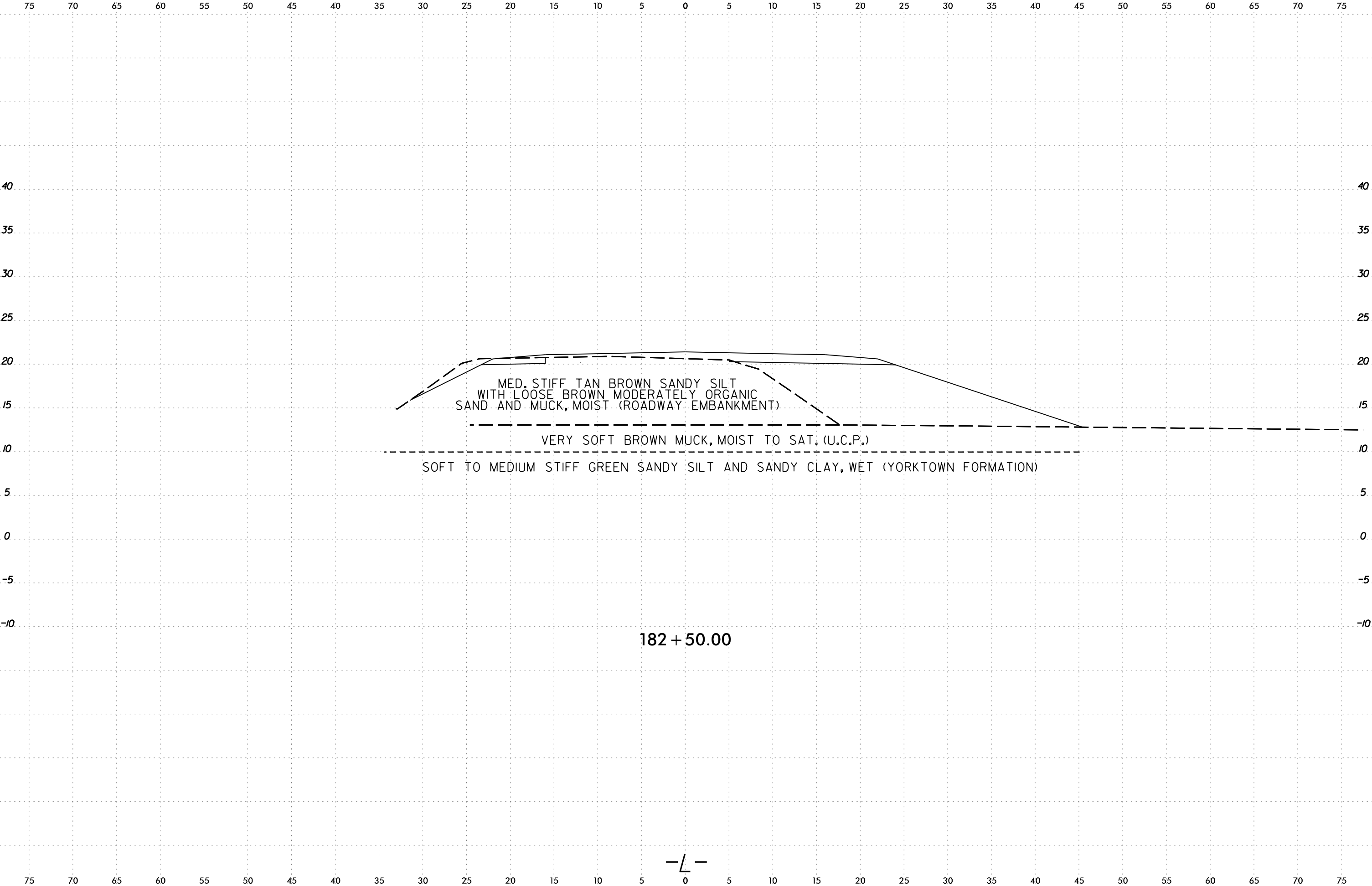
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	R-5808	359



6/23/16

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Lee Stone AT LSTONE-CAD-PC

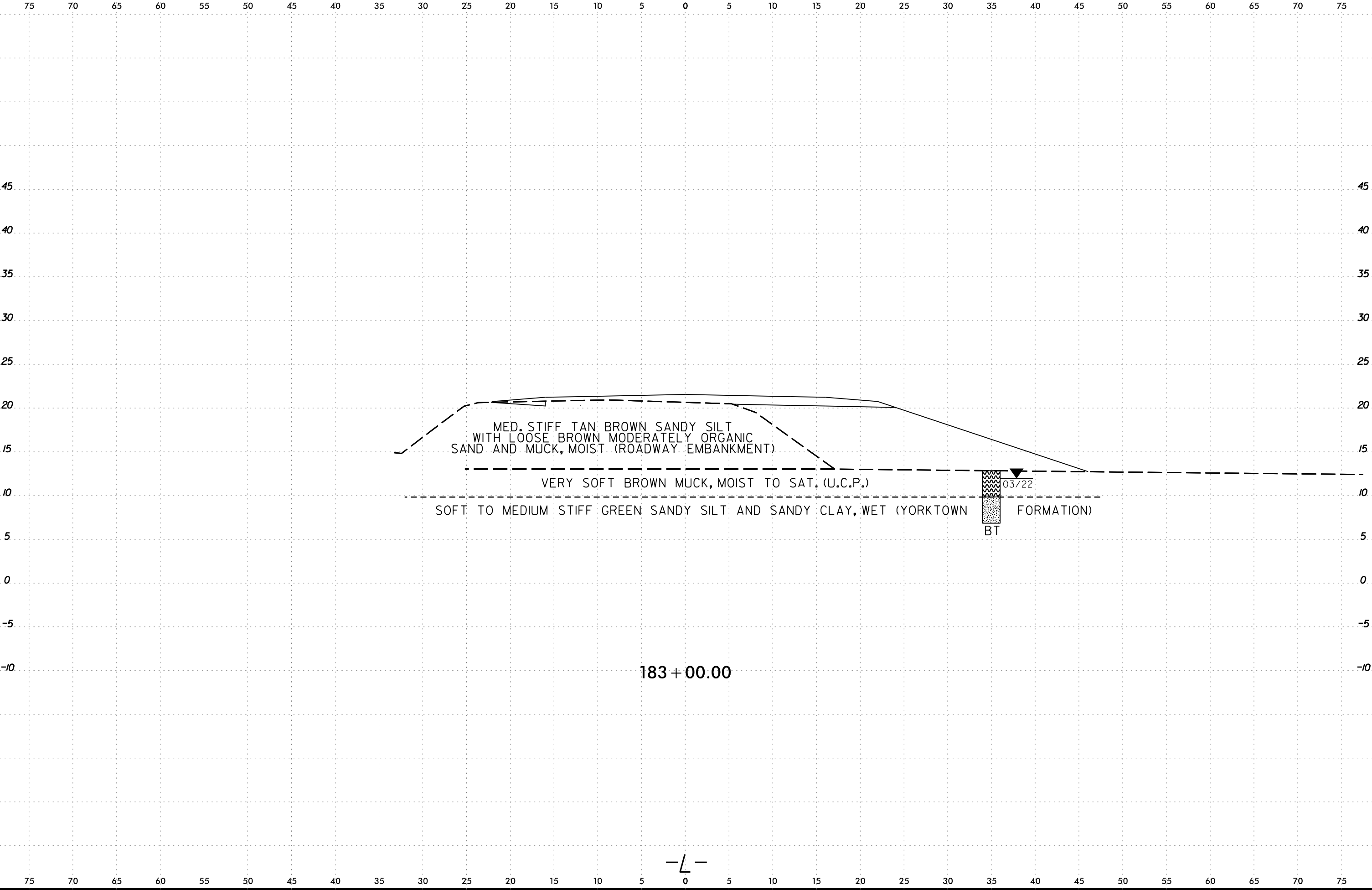
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	R-5808	360



6/23/16

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Lee Stone AT LSTONE-CAD-PC

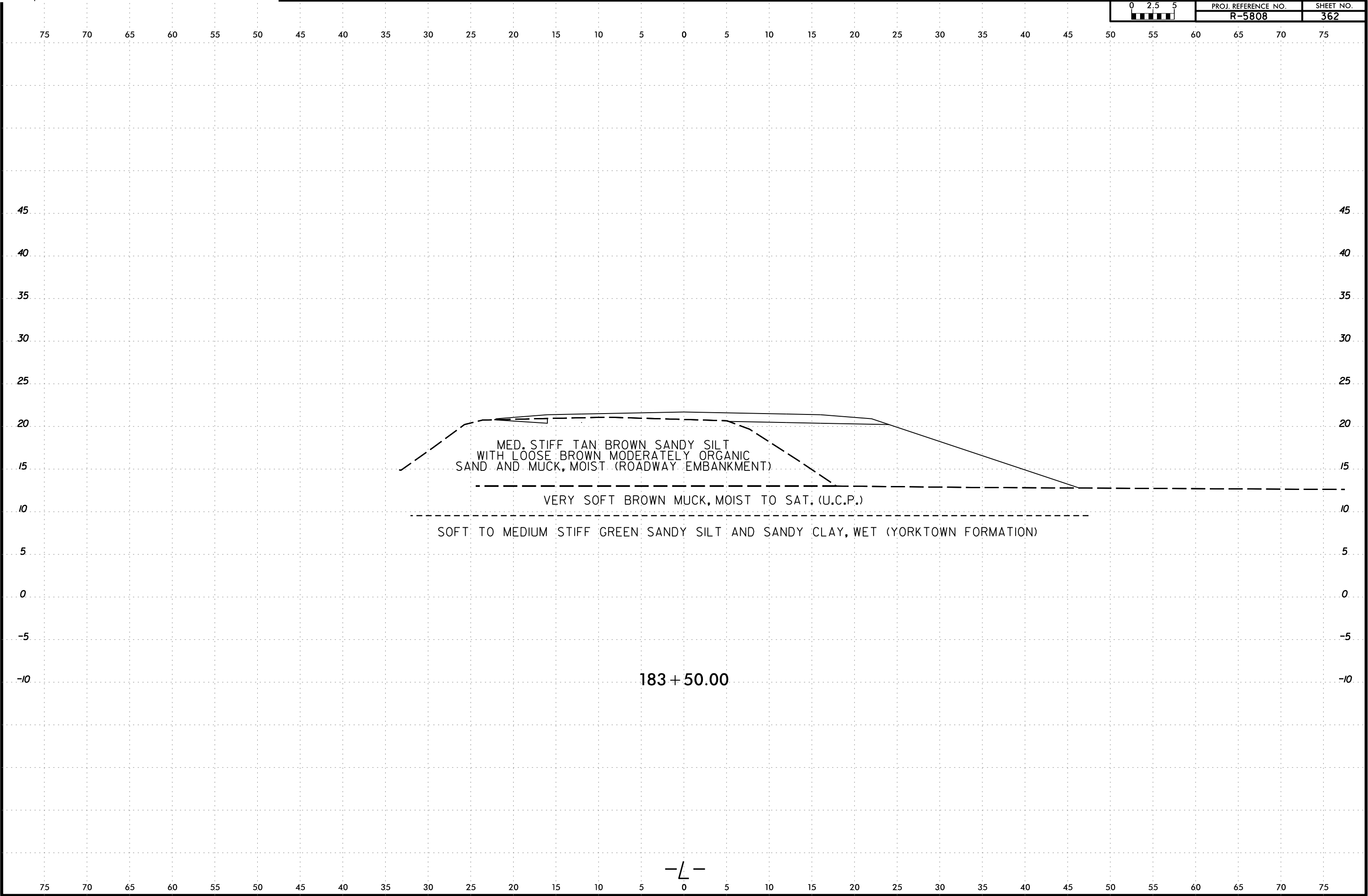
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02.55	R-5808	361



6/23/16

10-JAN-2023 11:57
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	362

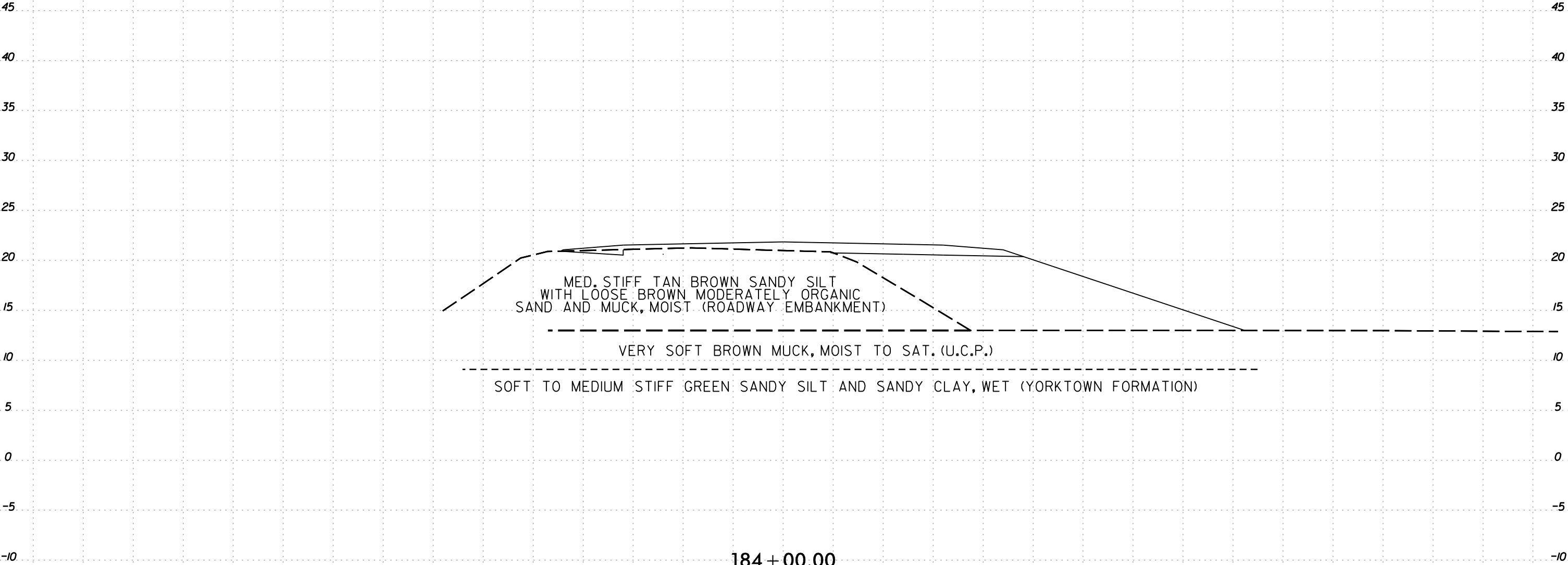


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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	363

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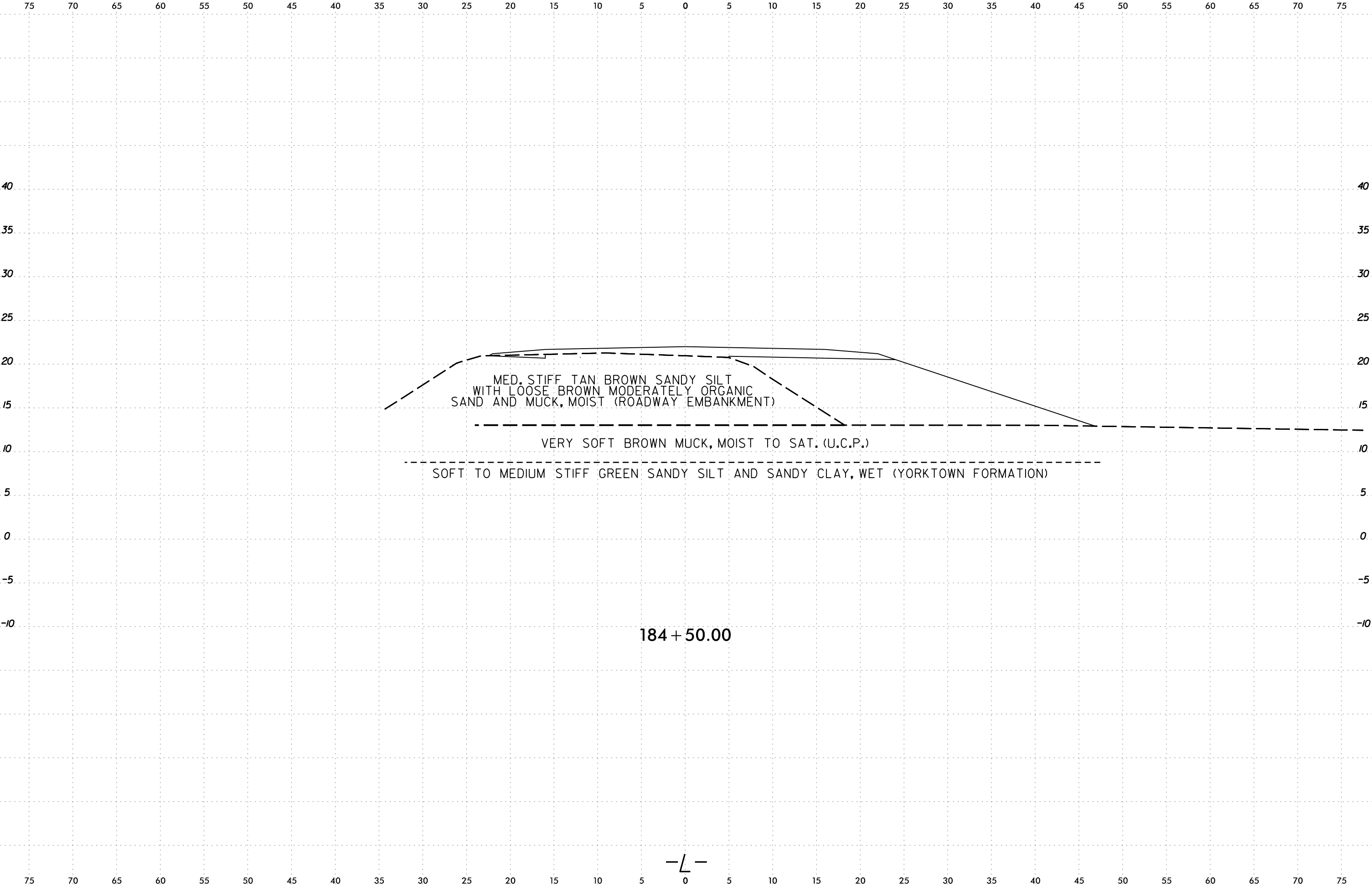
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6/23/16

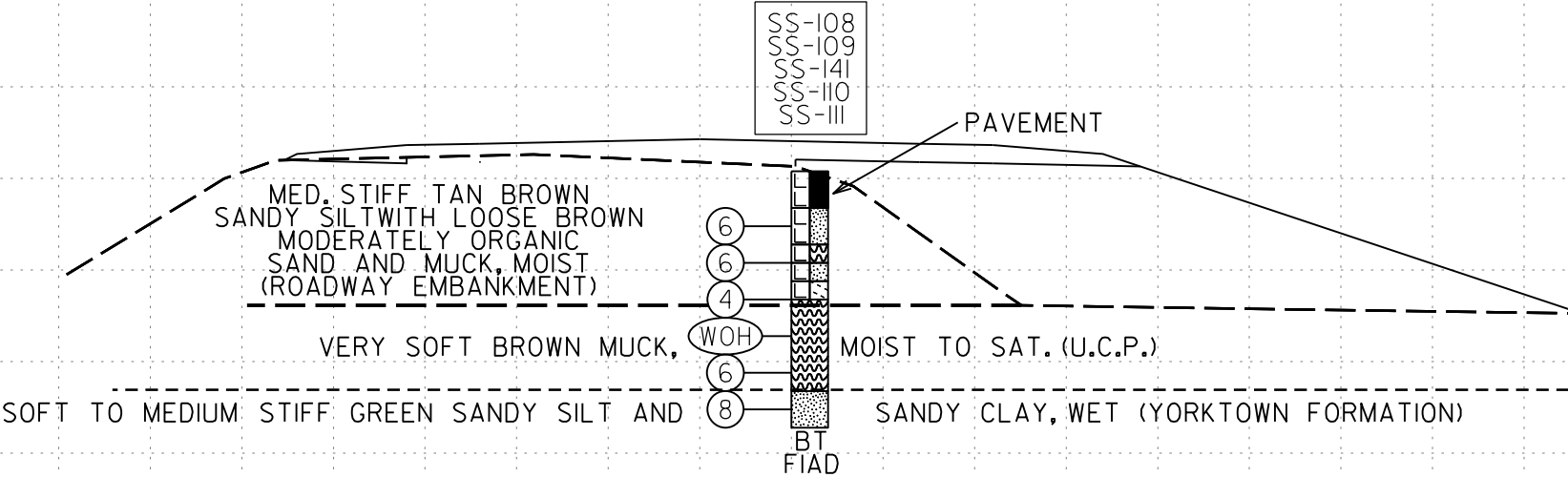
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	364



6/23/16

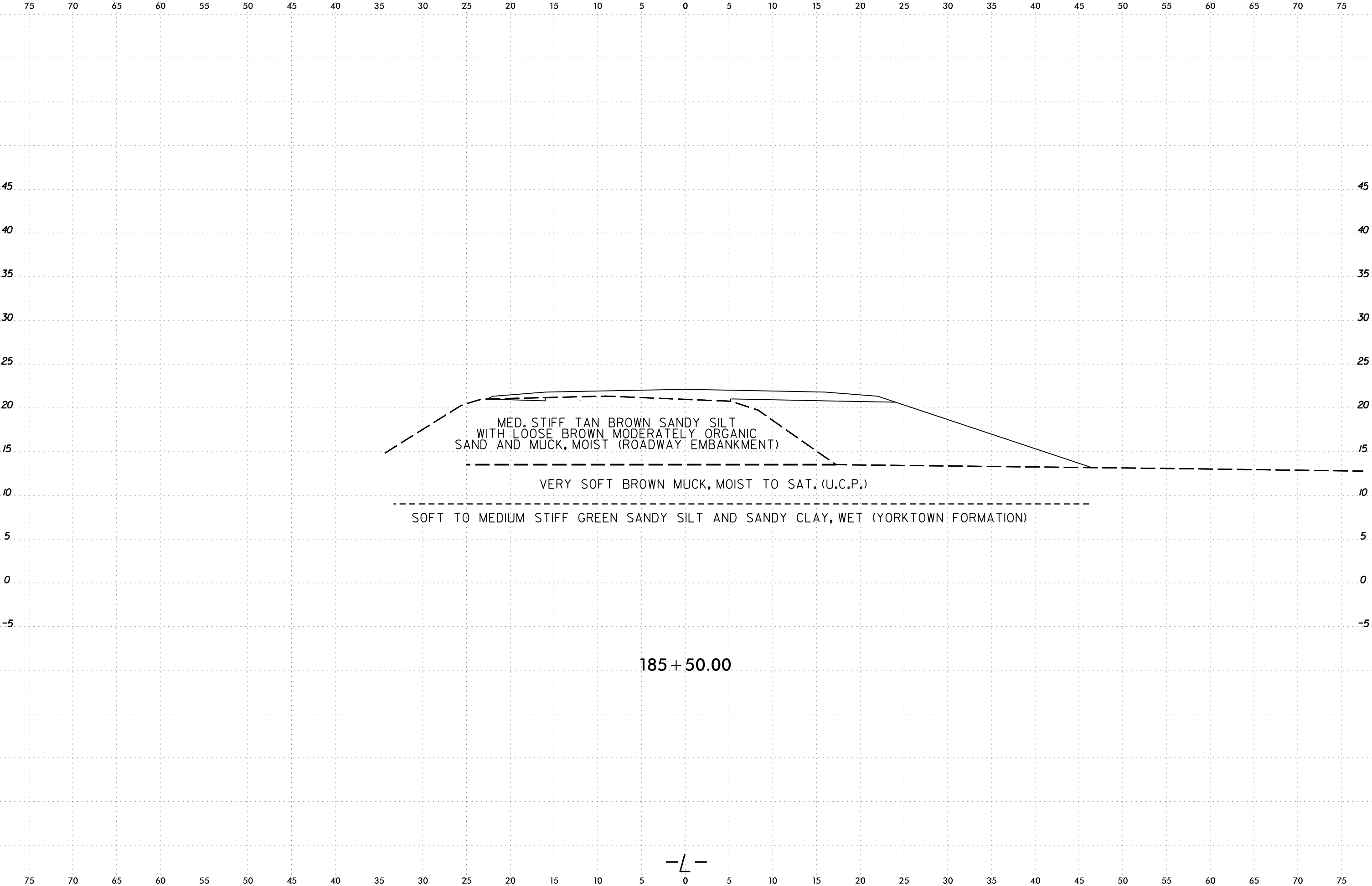
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-108	6 ft RT	185+00	2.5 - 4.0	A-4(0)	20	6	13.8	49.8	17.6	18.8	100	98	41	-	-
SS-109	6 ft RT	185+00	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



6/23/16

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Lee Stone AT LSTONE-CAD-PC

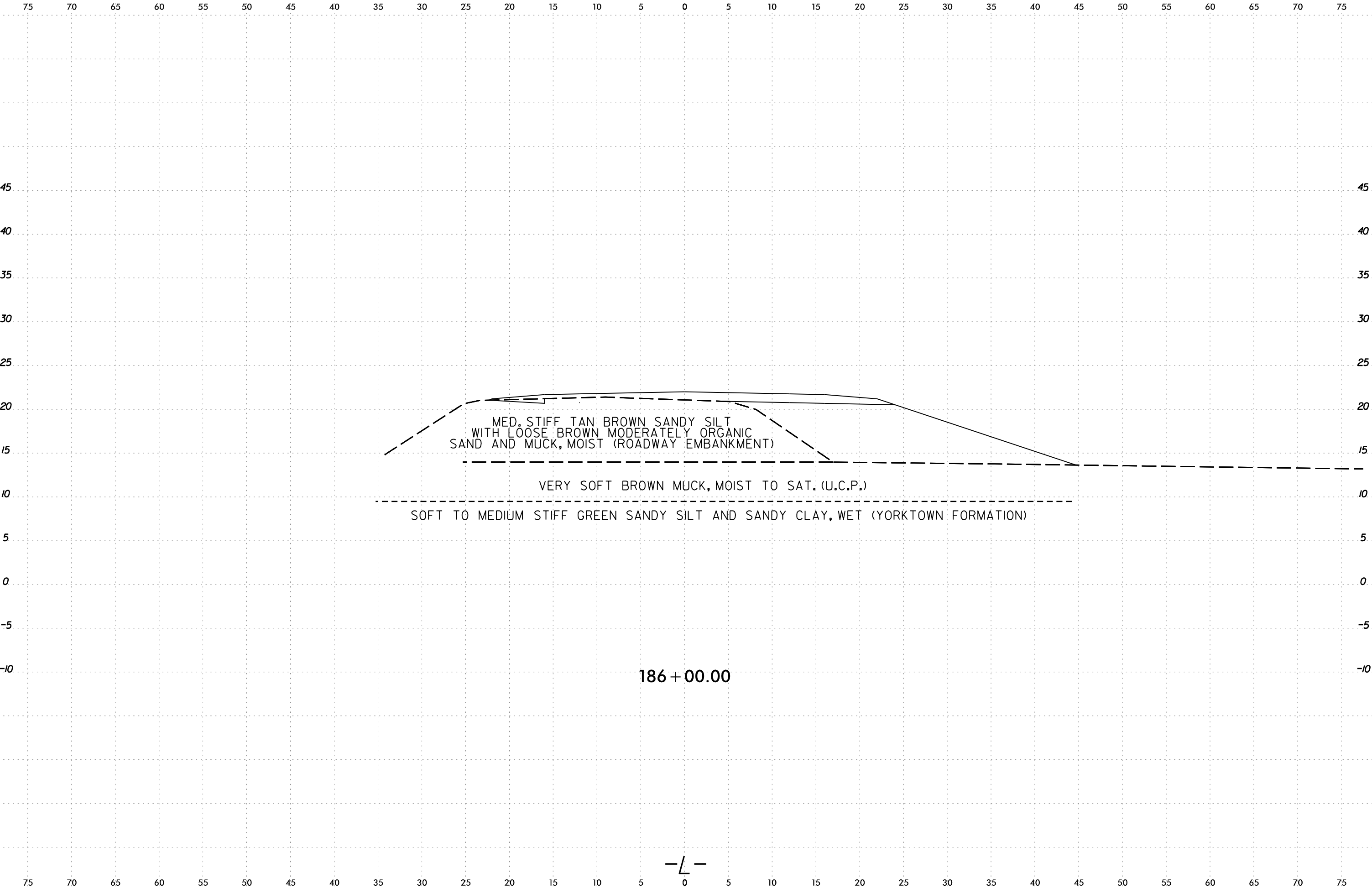
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	366



6/23/16

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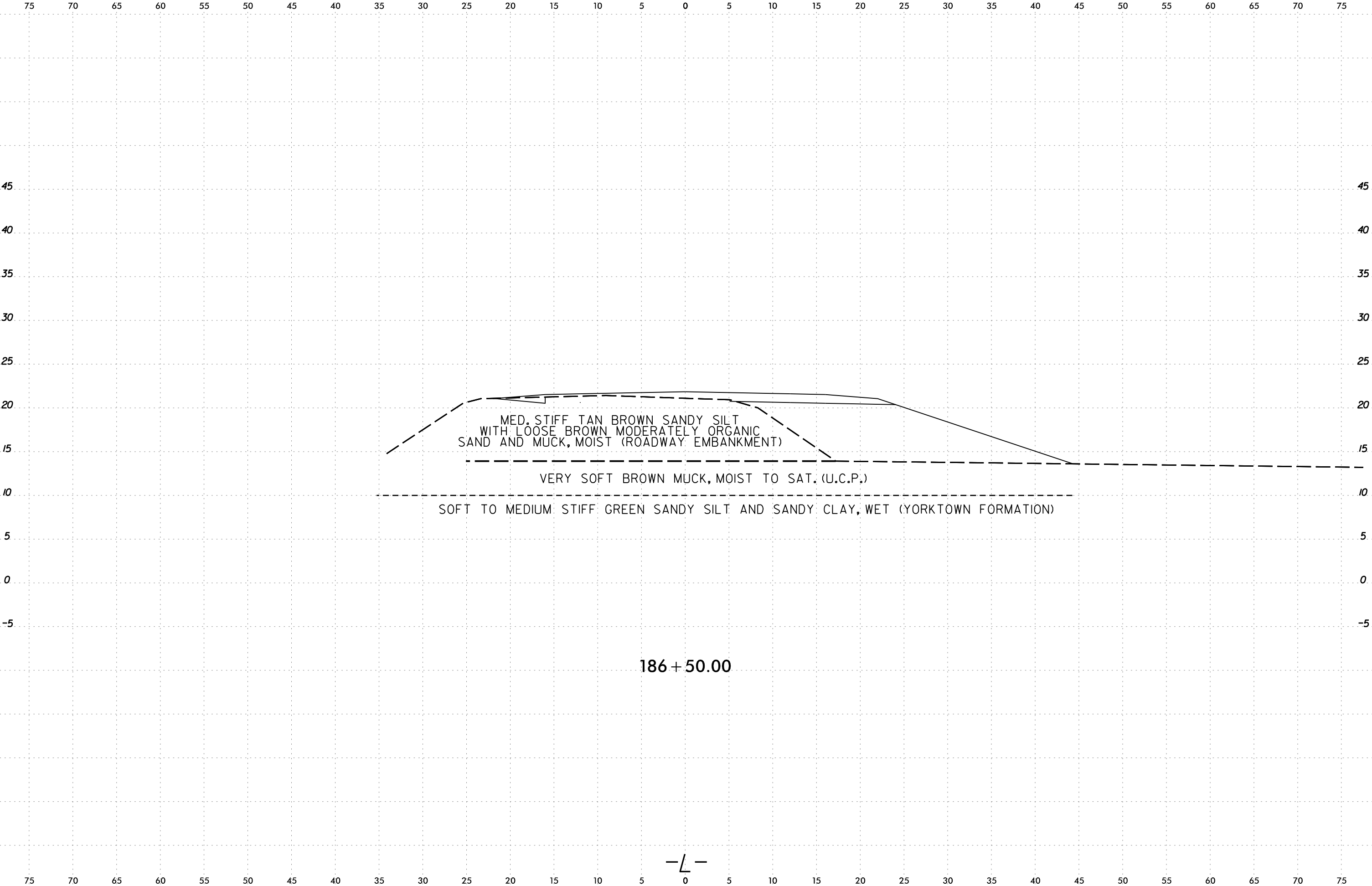
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	R-5808	367



6/23/16

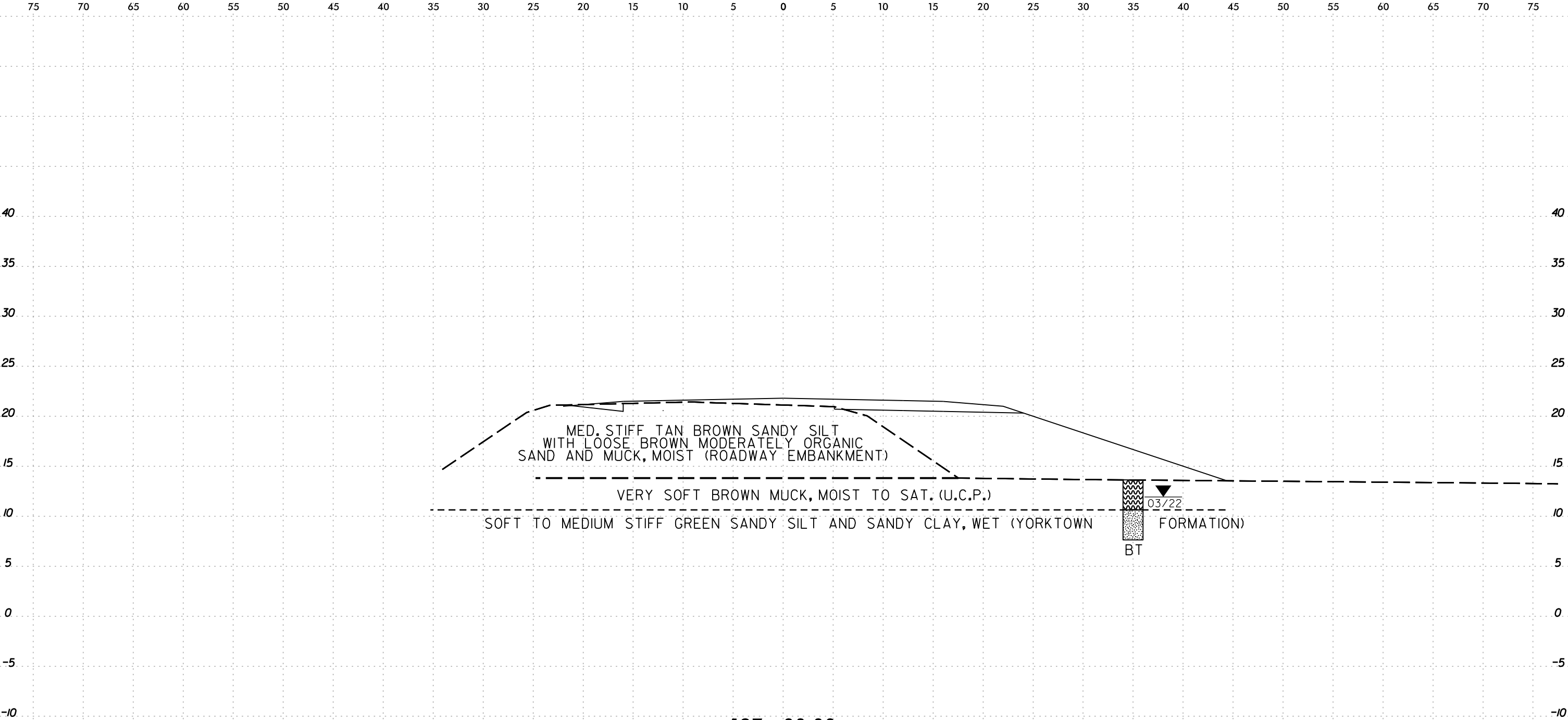
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	368



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	369



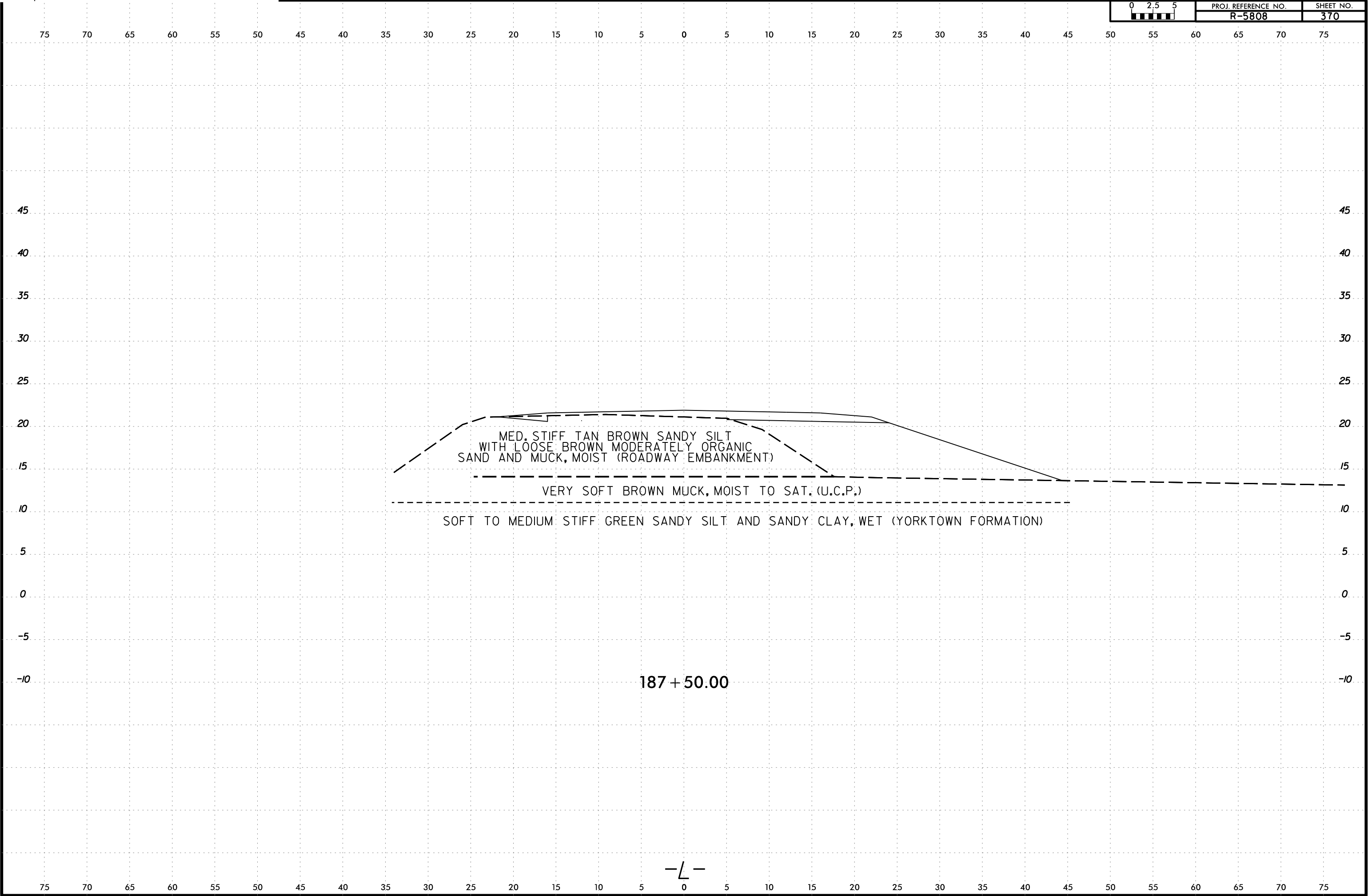
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

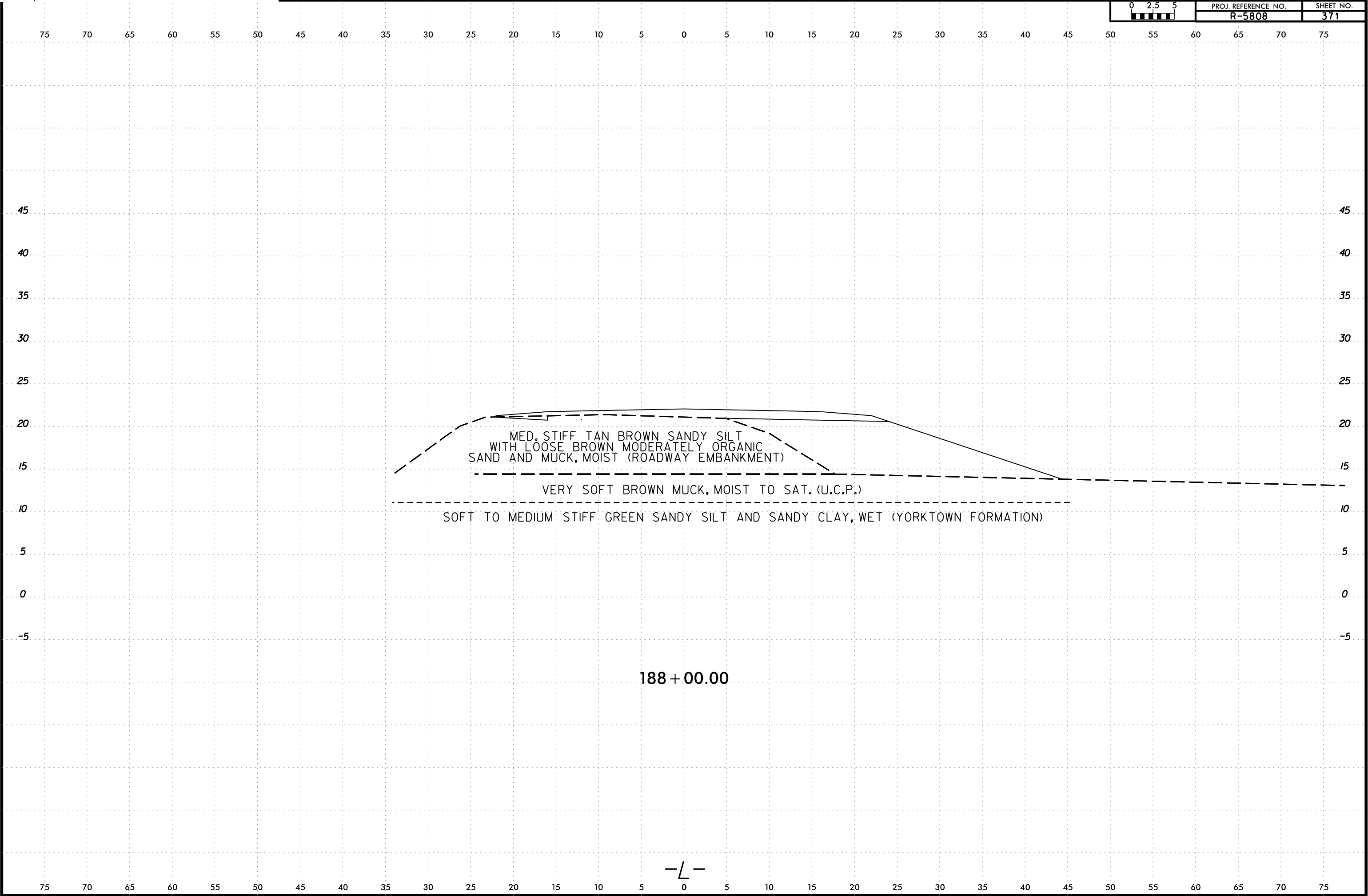
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	R-5808	370



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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	371

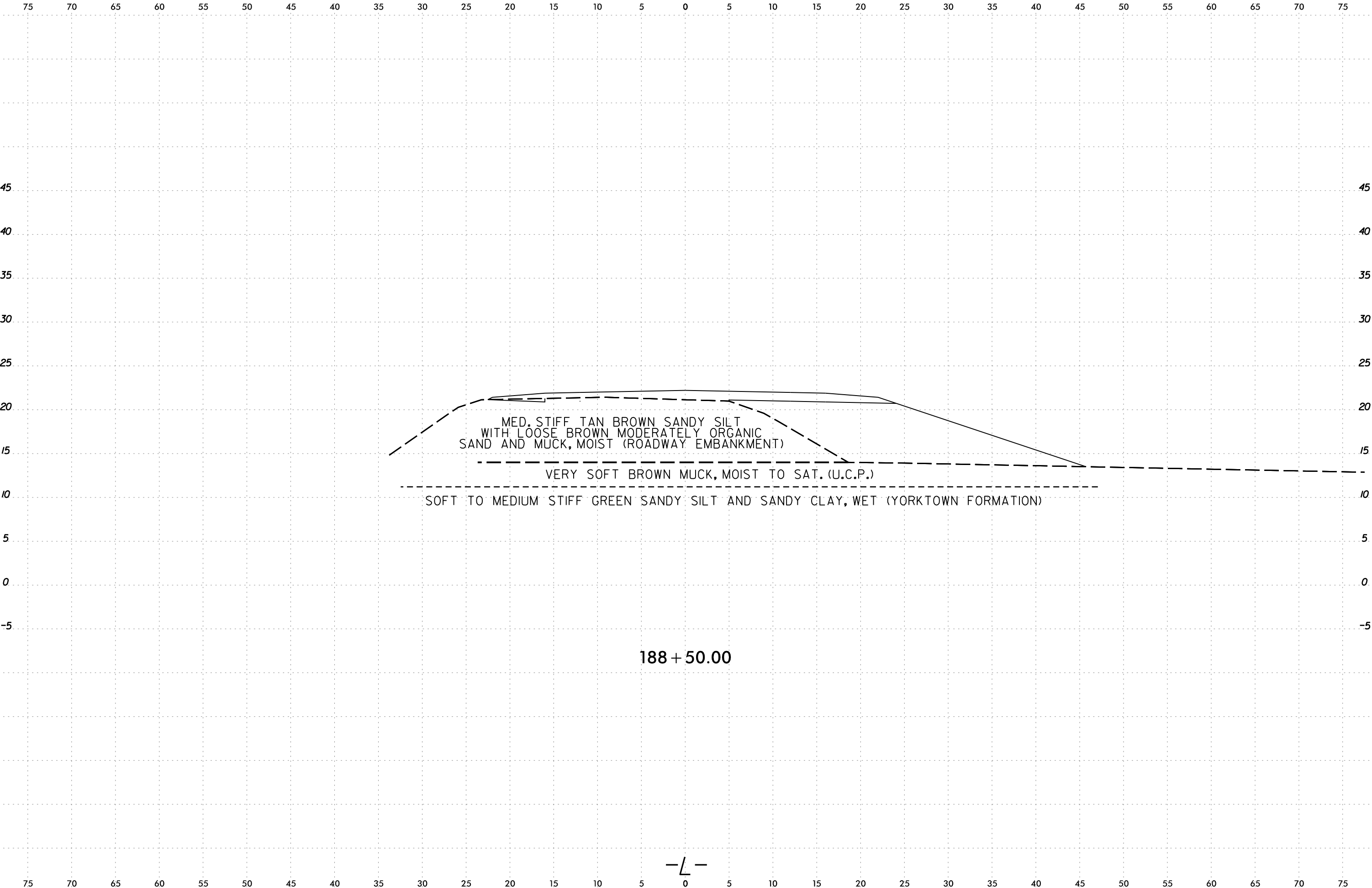


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Lee Stone AT LSTONE-CAD-PC

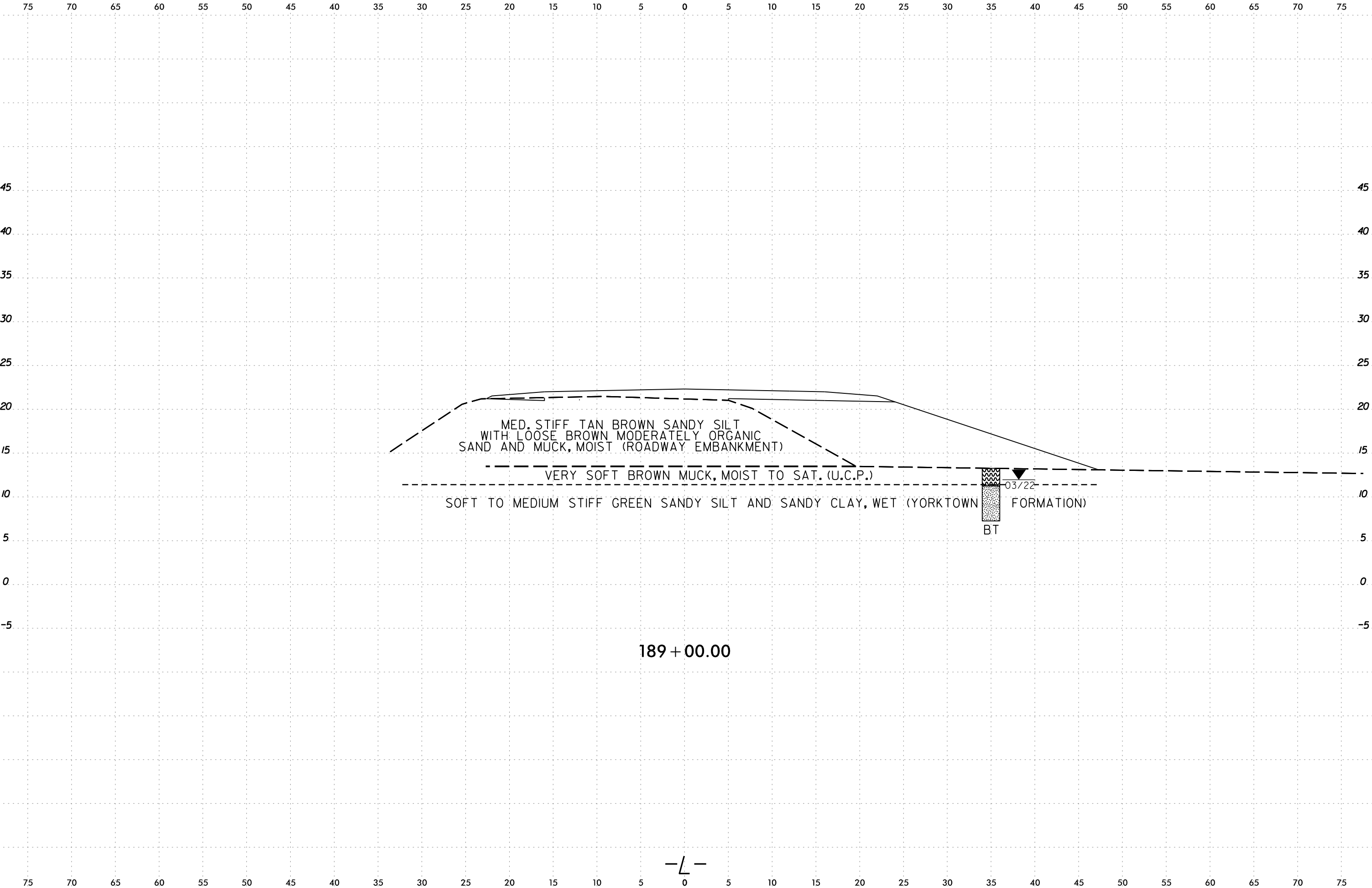
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	R-5808	372



6/23/16

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Lee Stone AT LSTONE-CAD-PC

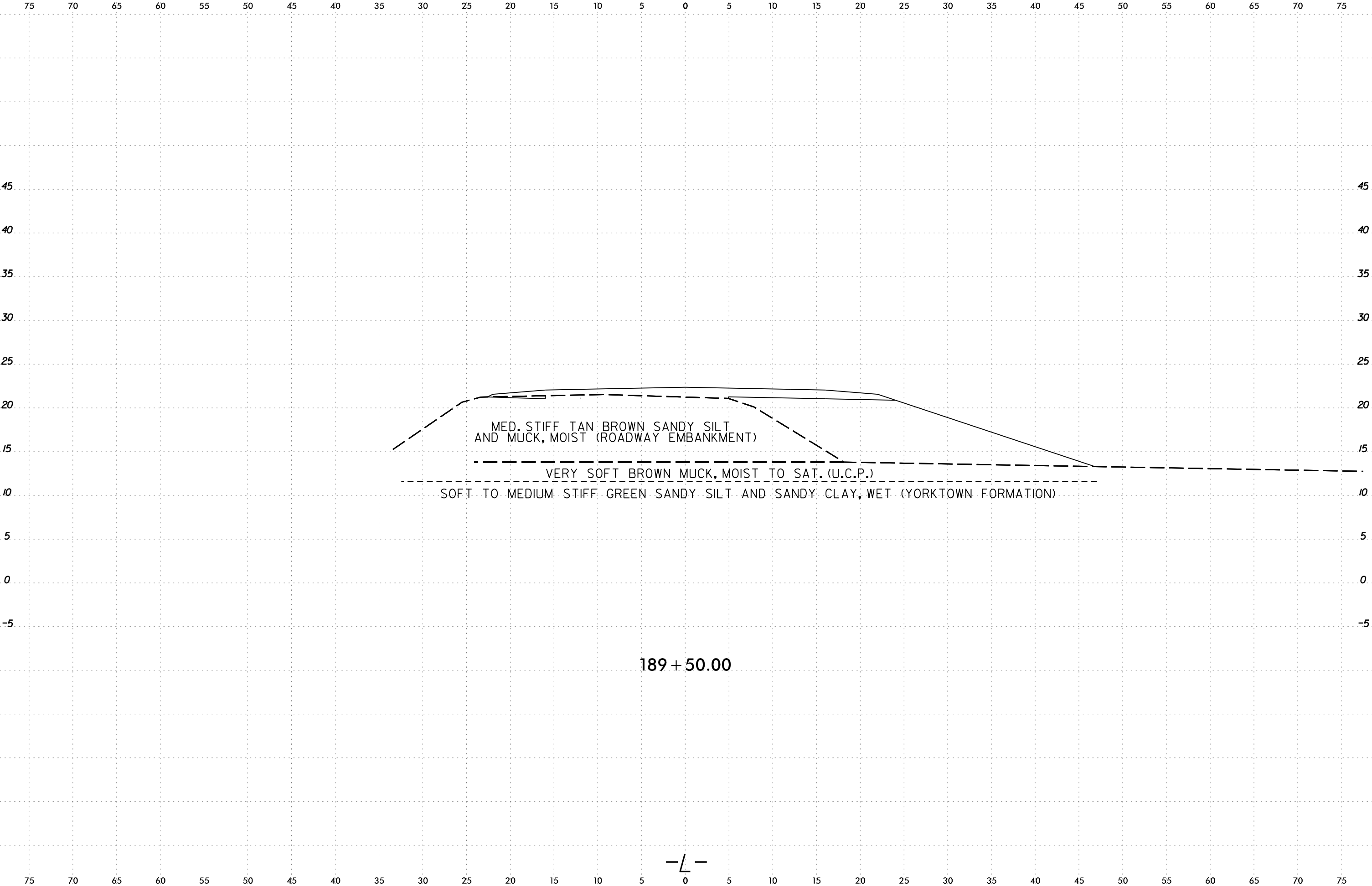
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	R-5808	373



6/23/16

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Lee Stone AT LSTONE-CAD-PC

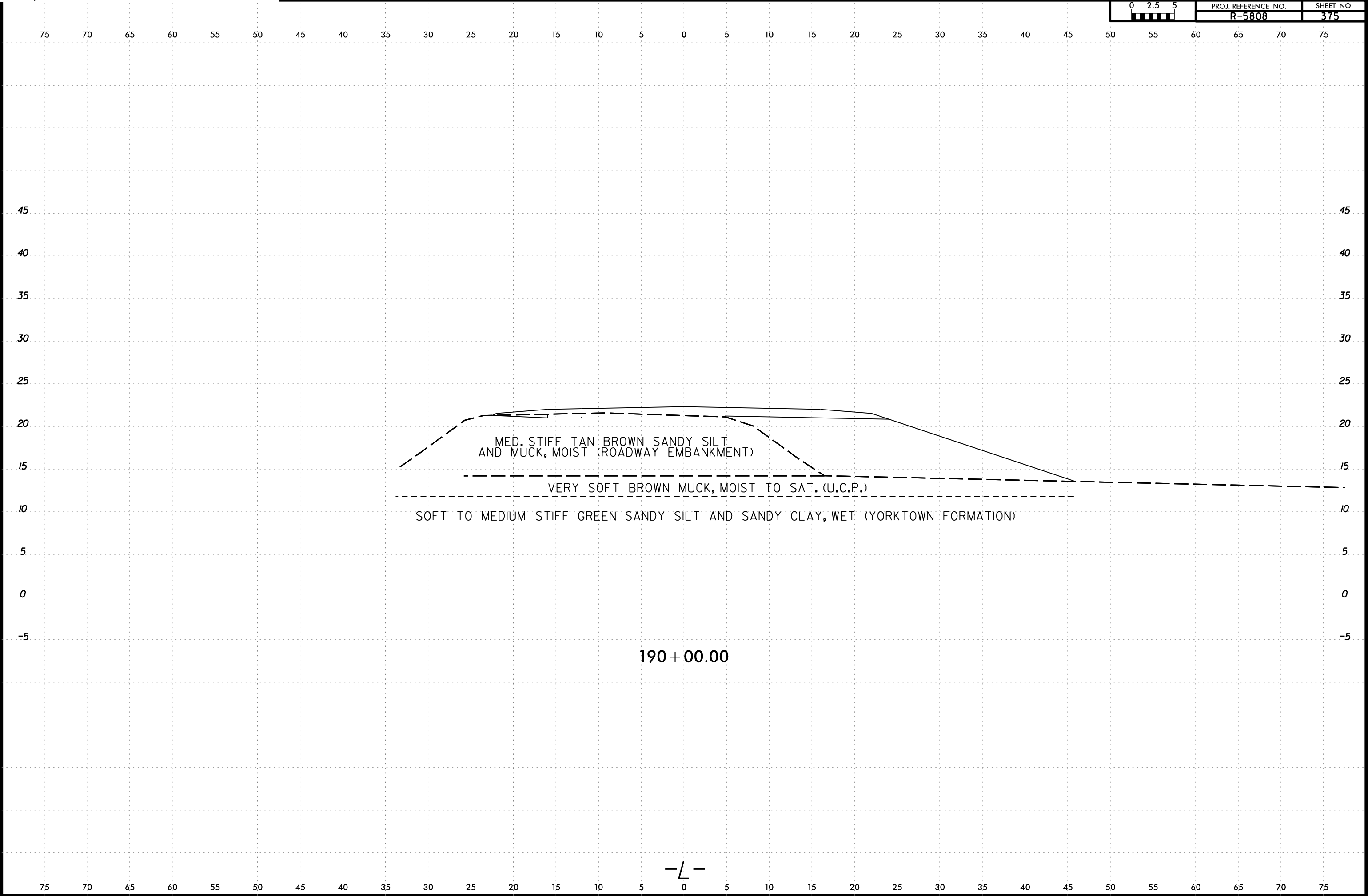
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	R-5808	374



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Lee Stone AT LSTONE-CAD-PC

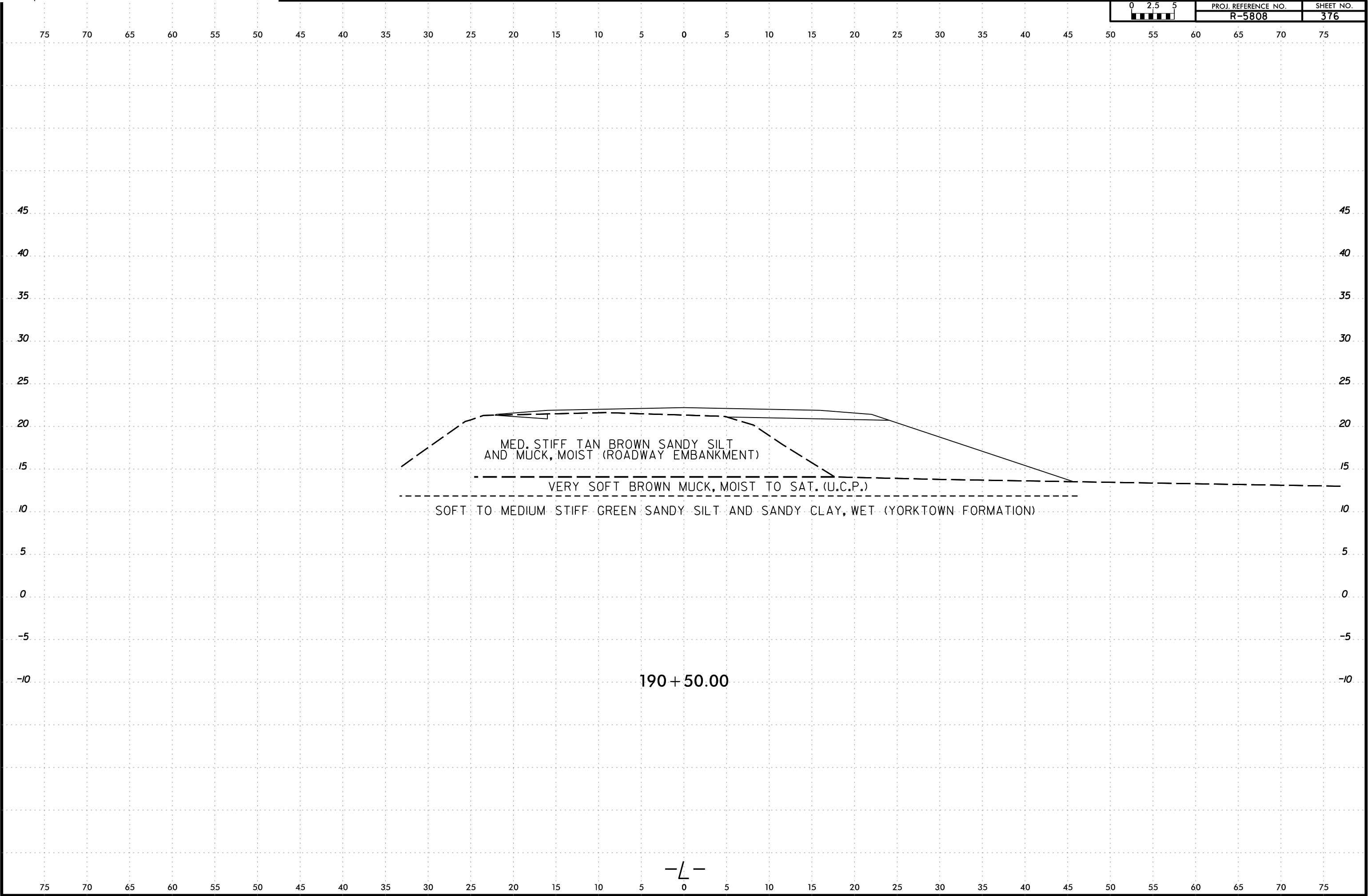
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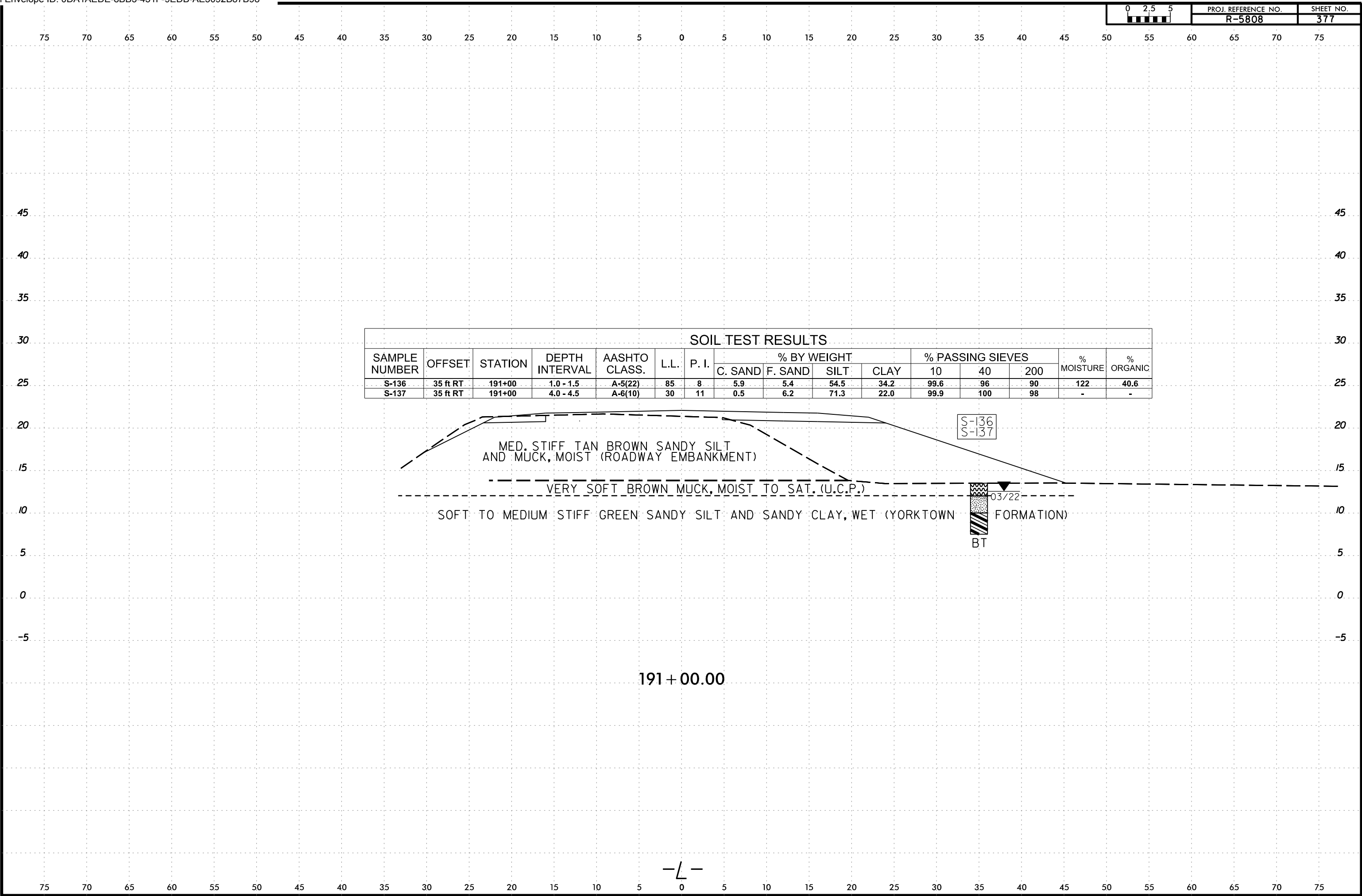
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	376



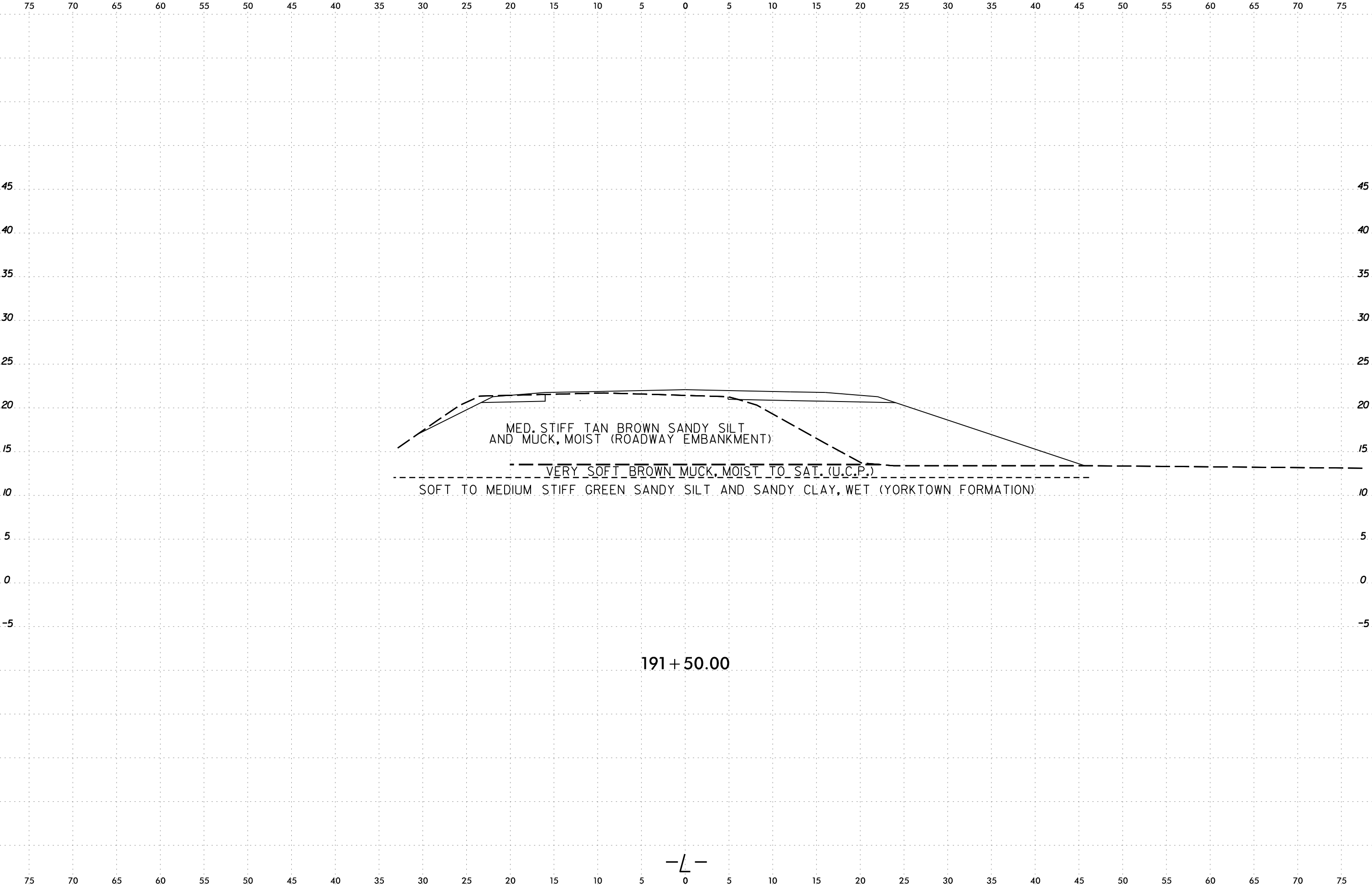
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Lee Stone AT LSTONE-CAD-PC

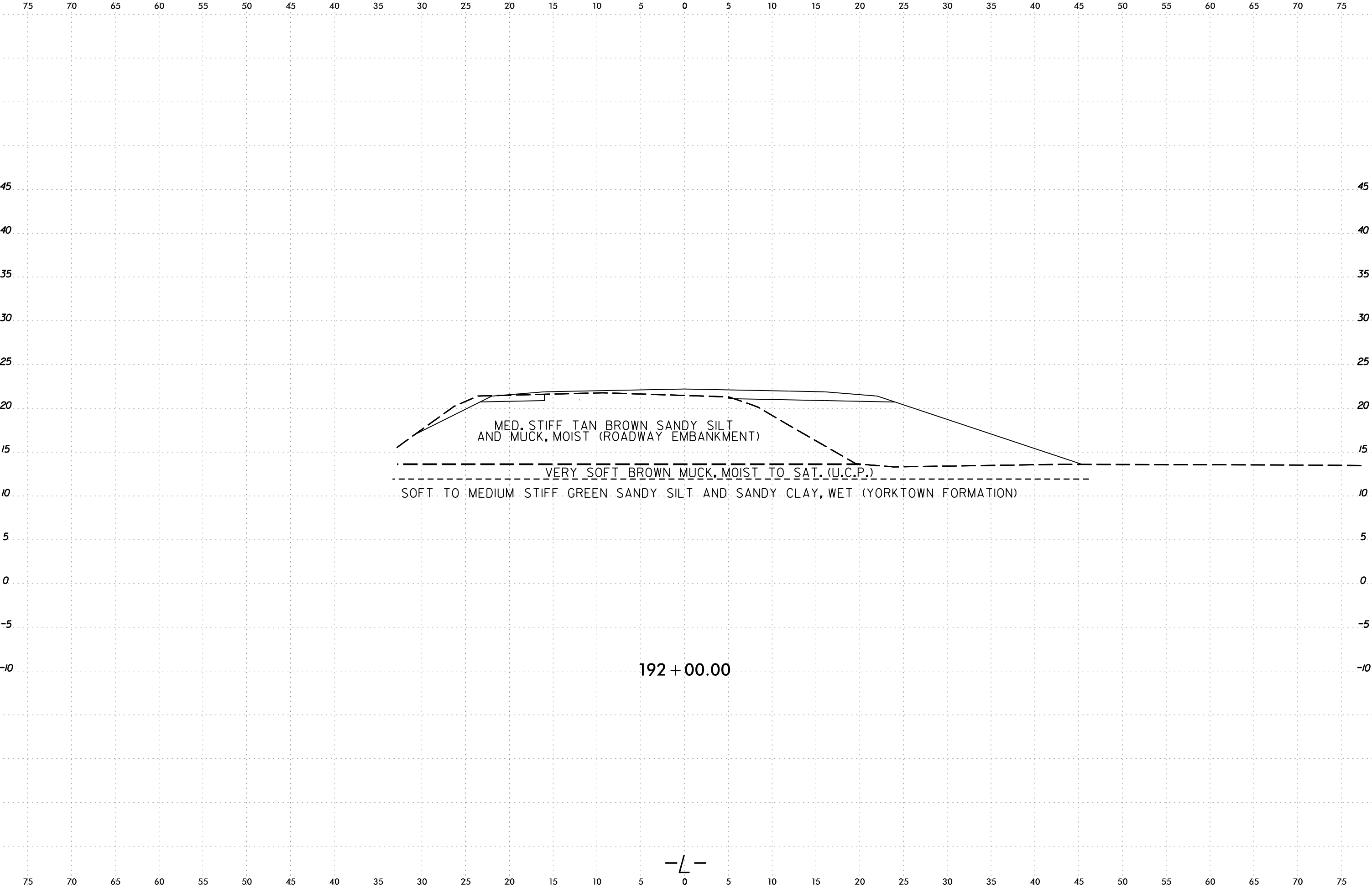
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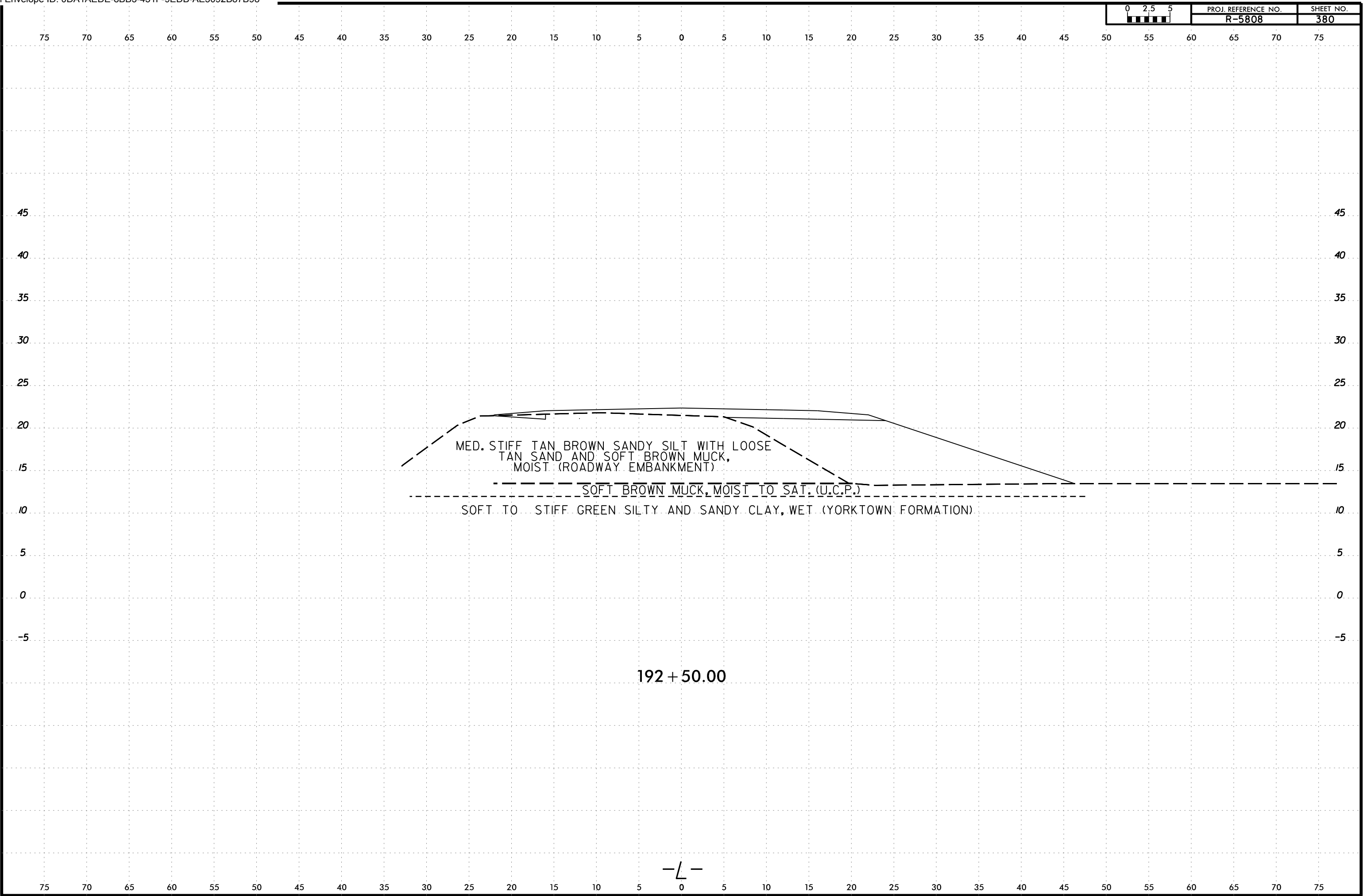


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Lee Stone AT LSTONE-CAD-PC

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	R-5808	379

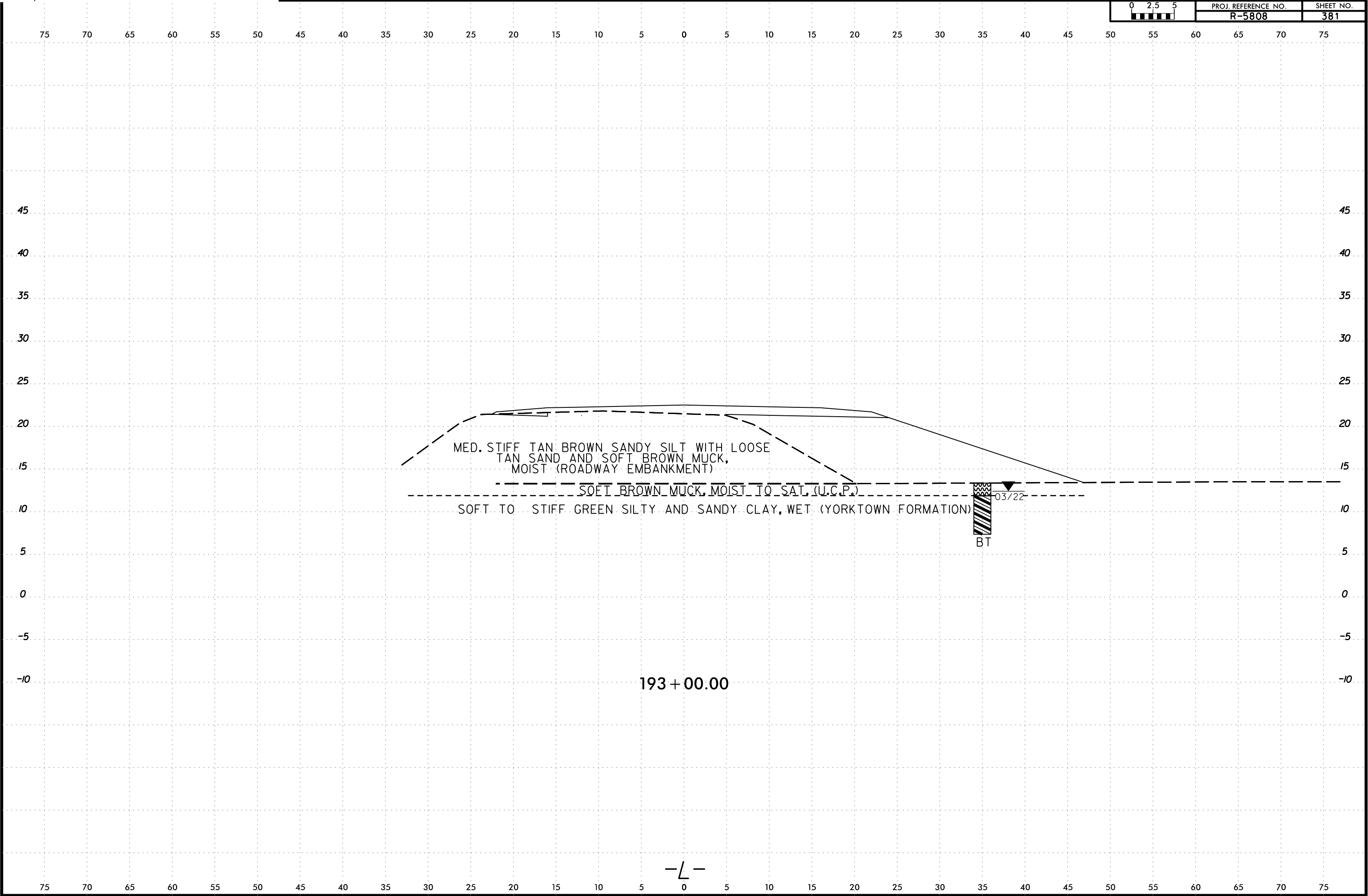




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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	381



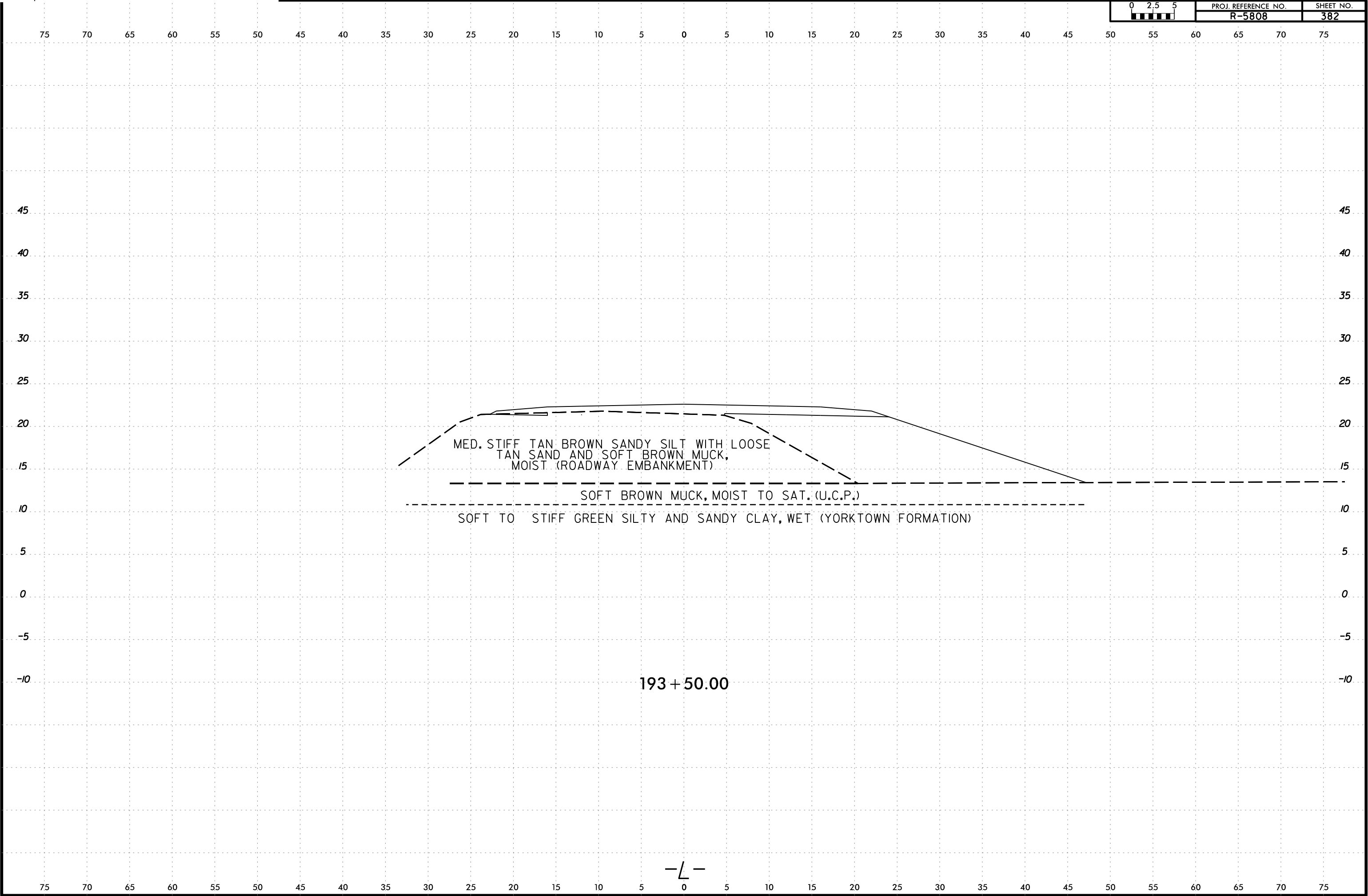
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
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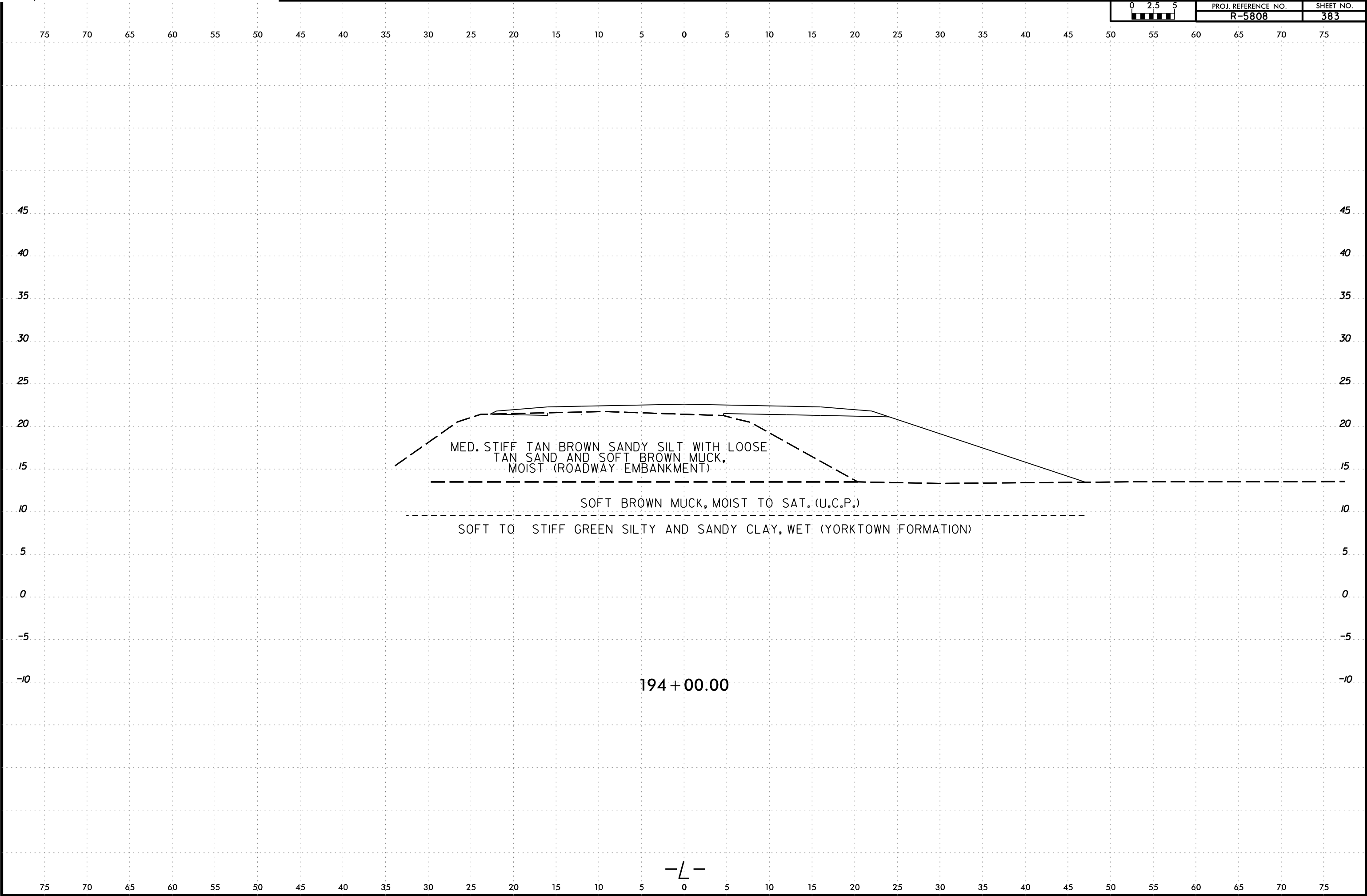


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Lee Stone AT LSTONE-CAD-PC

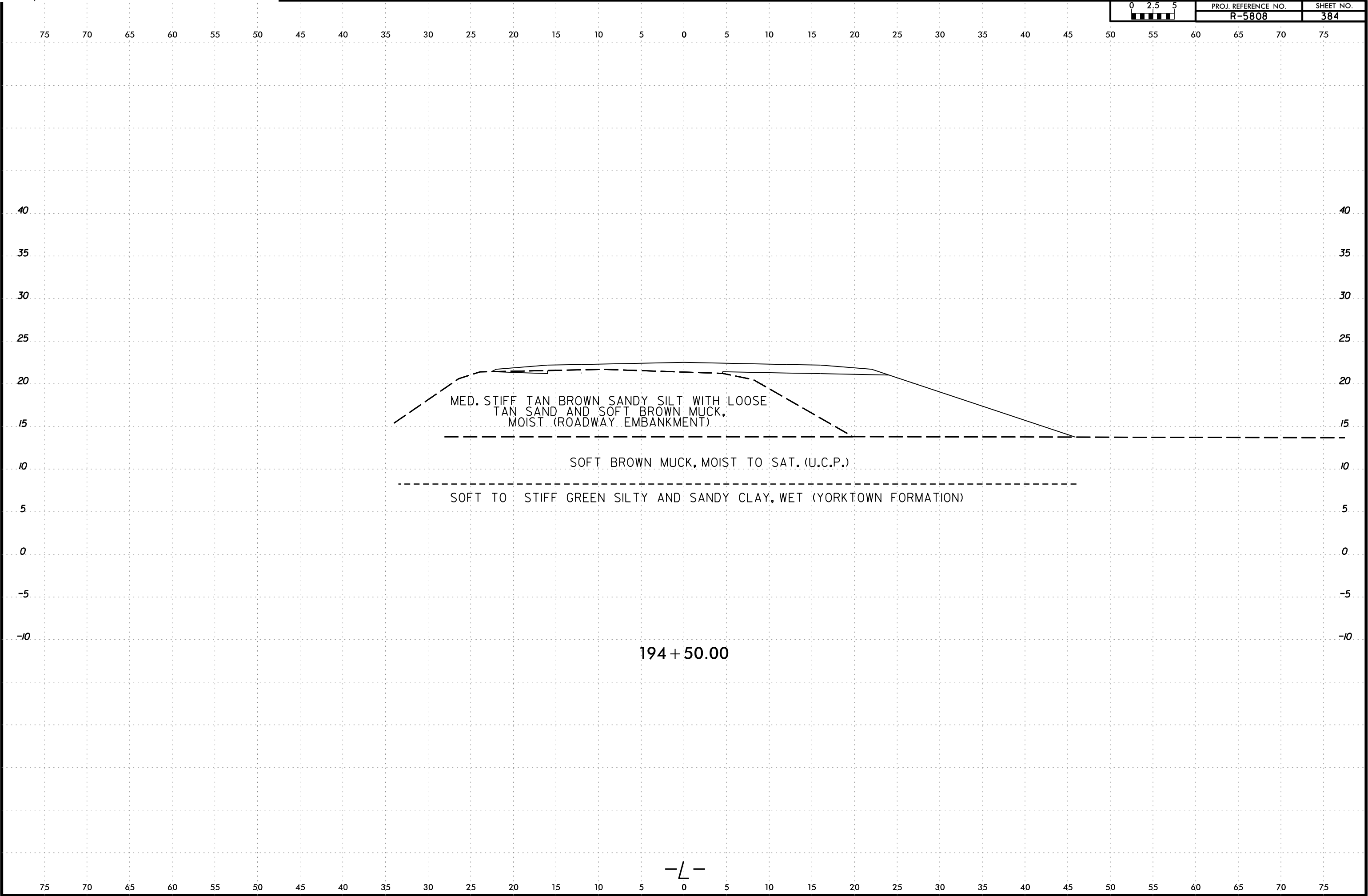
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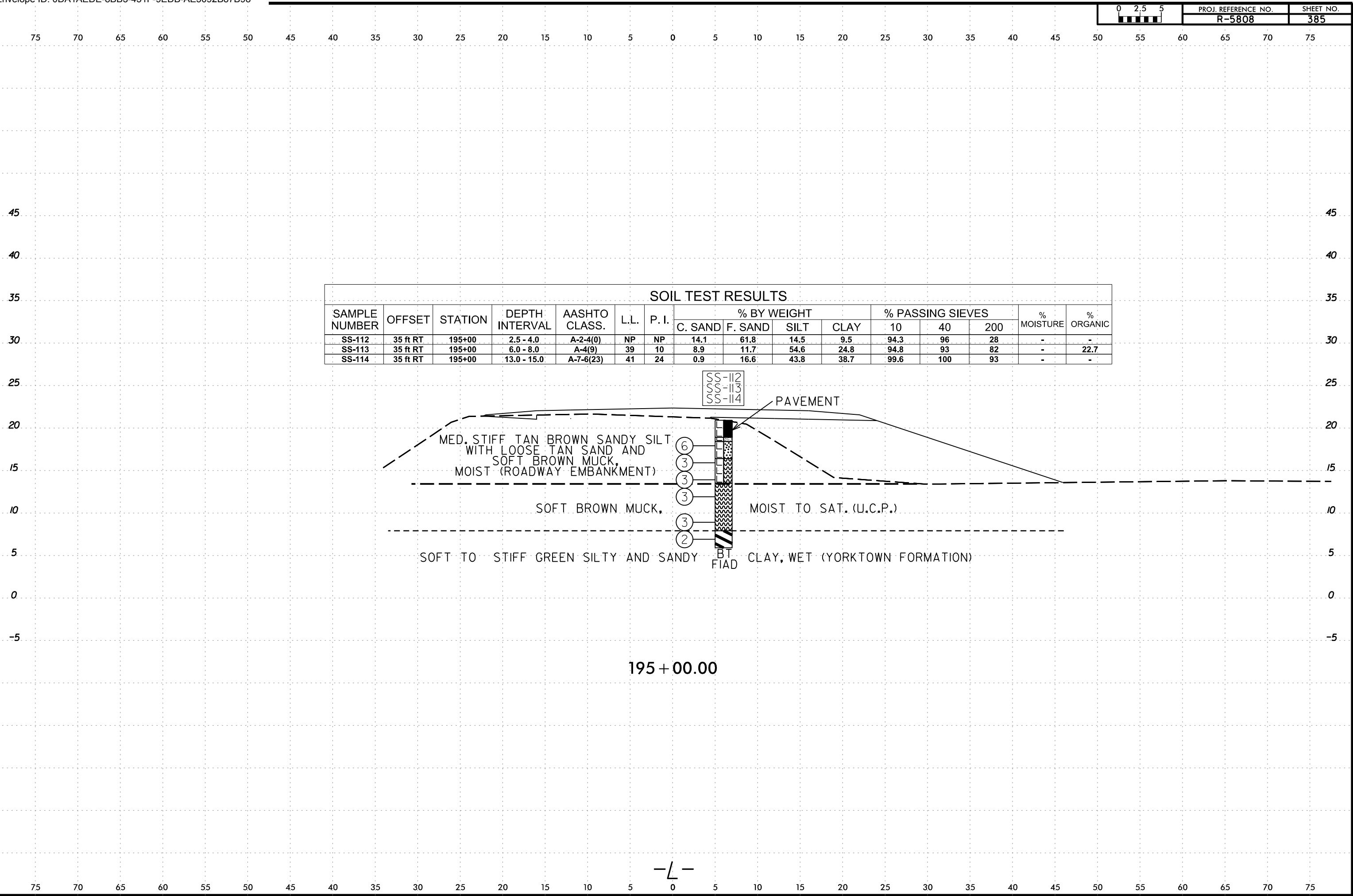


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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	384





6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
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-10-10

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)

195 + 50.00

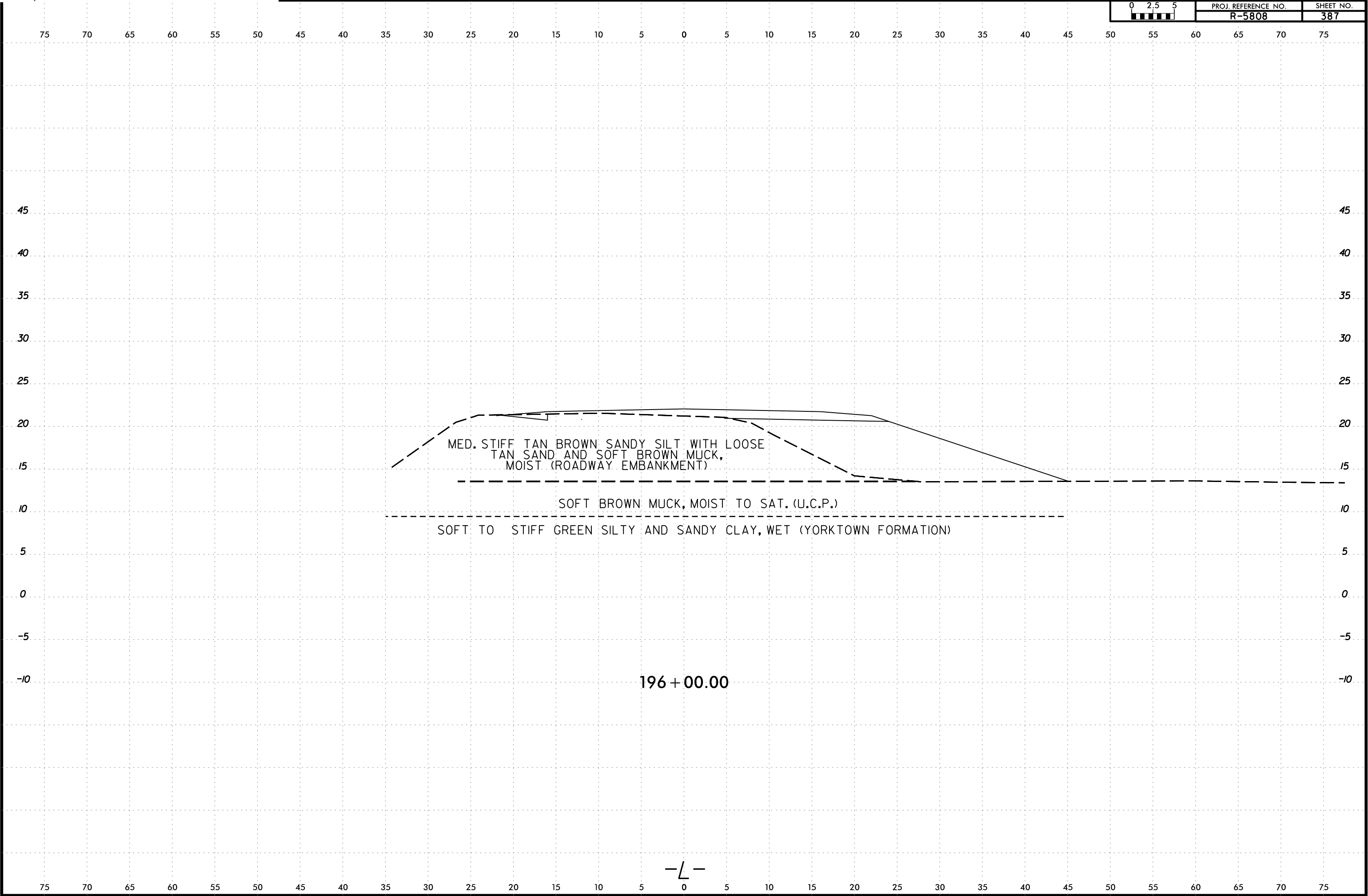
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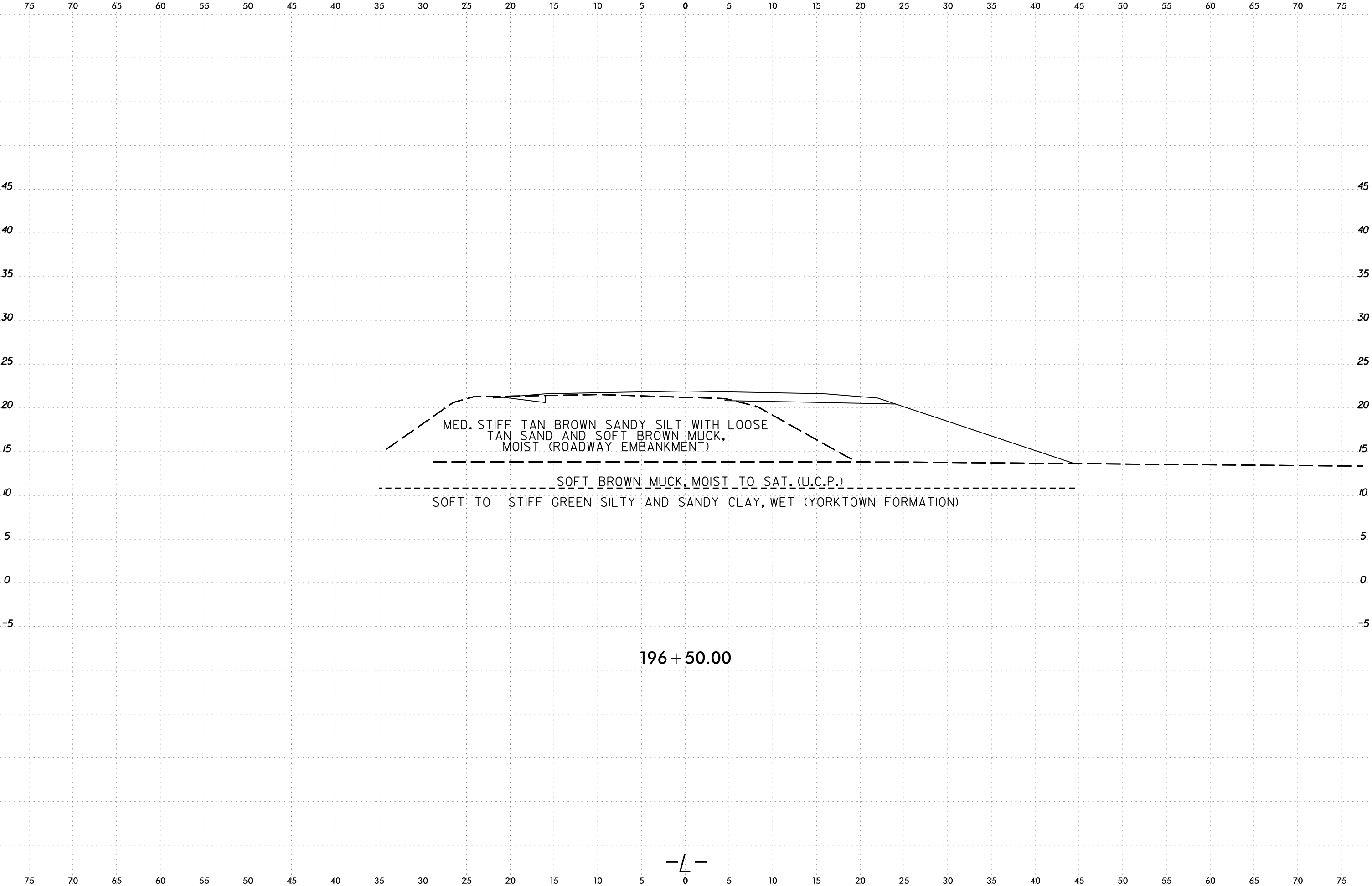
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

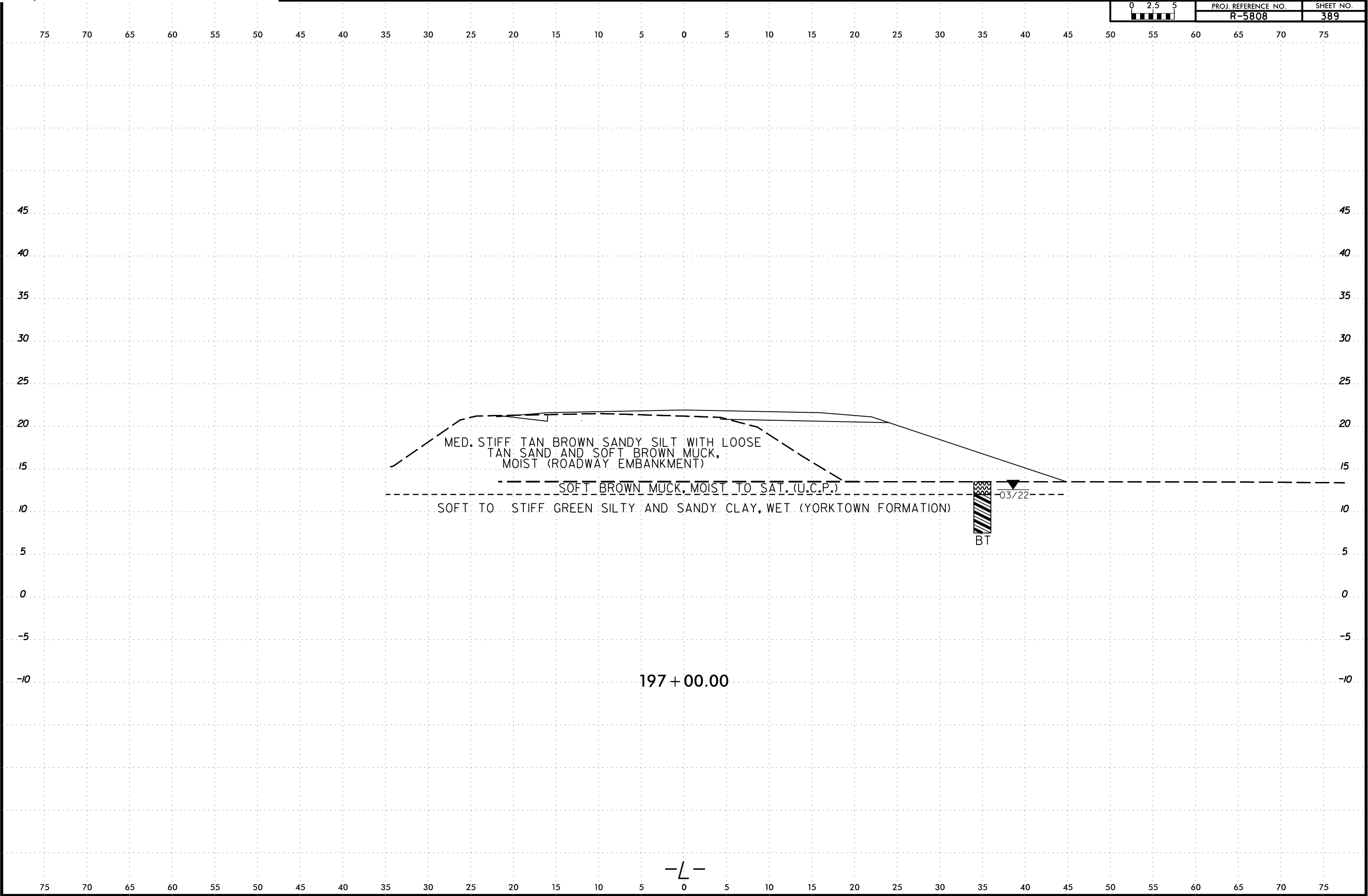
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	388



6/23/16

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Lee Stone AT LSTONE-CAD-PC

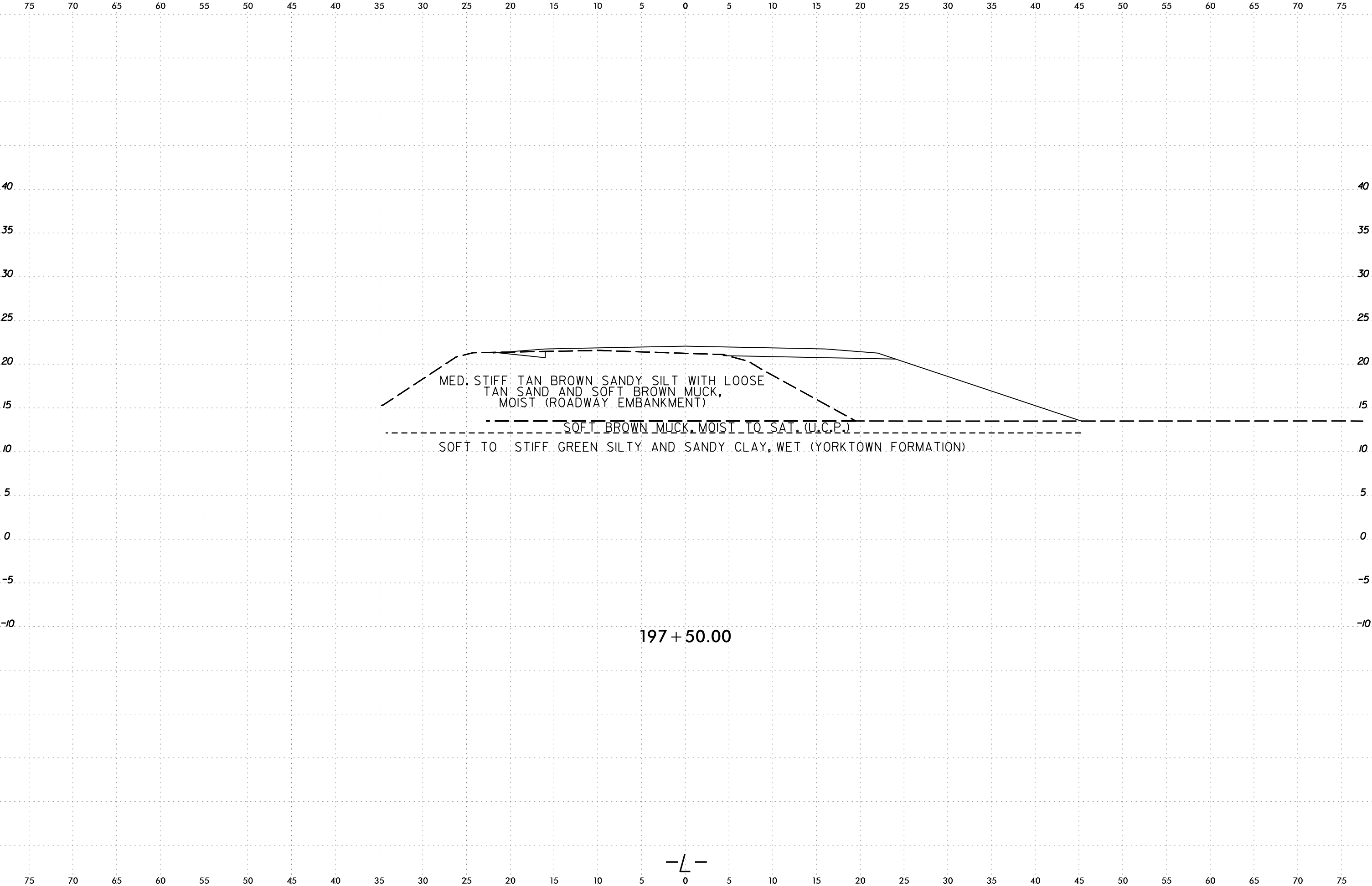
02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	389



6/23/16

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Lee Stone AT LSTONE-CAD-PC

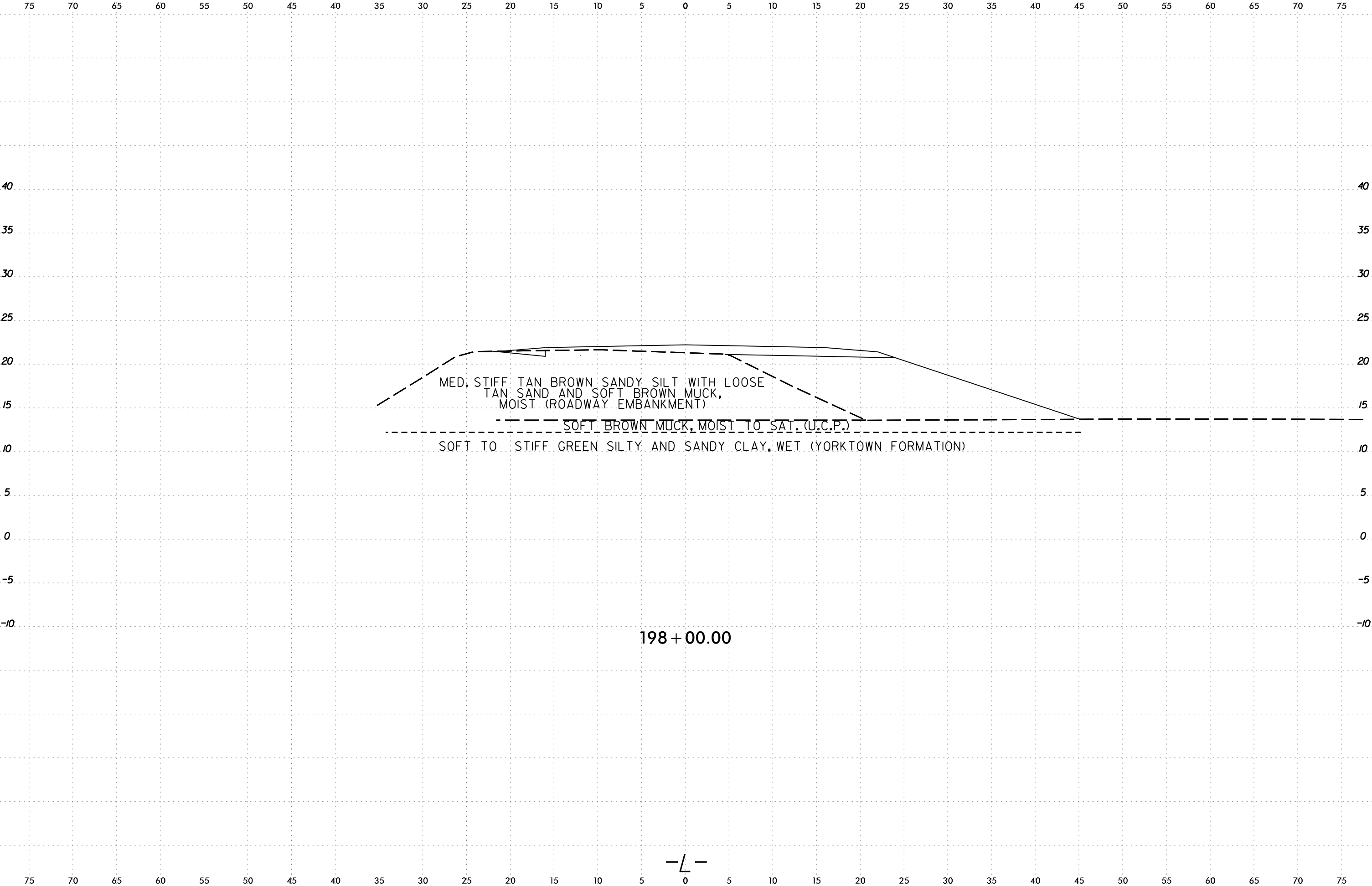
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	R-5808	390



6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	391

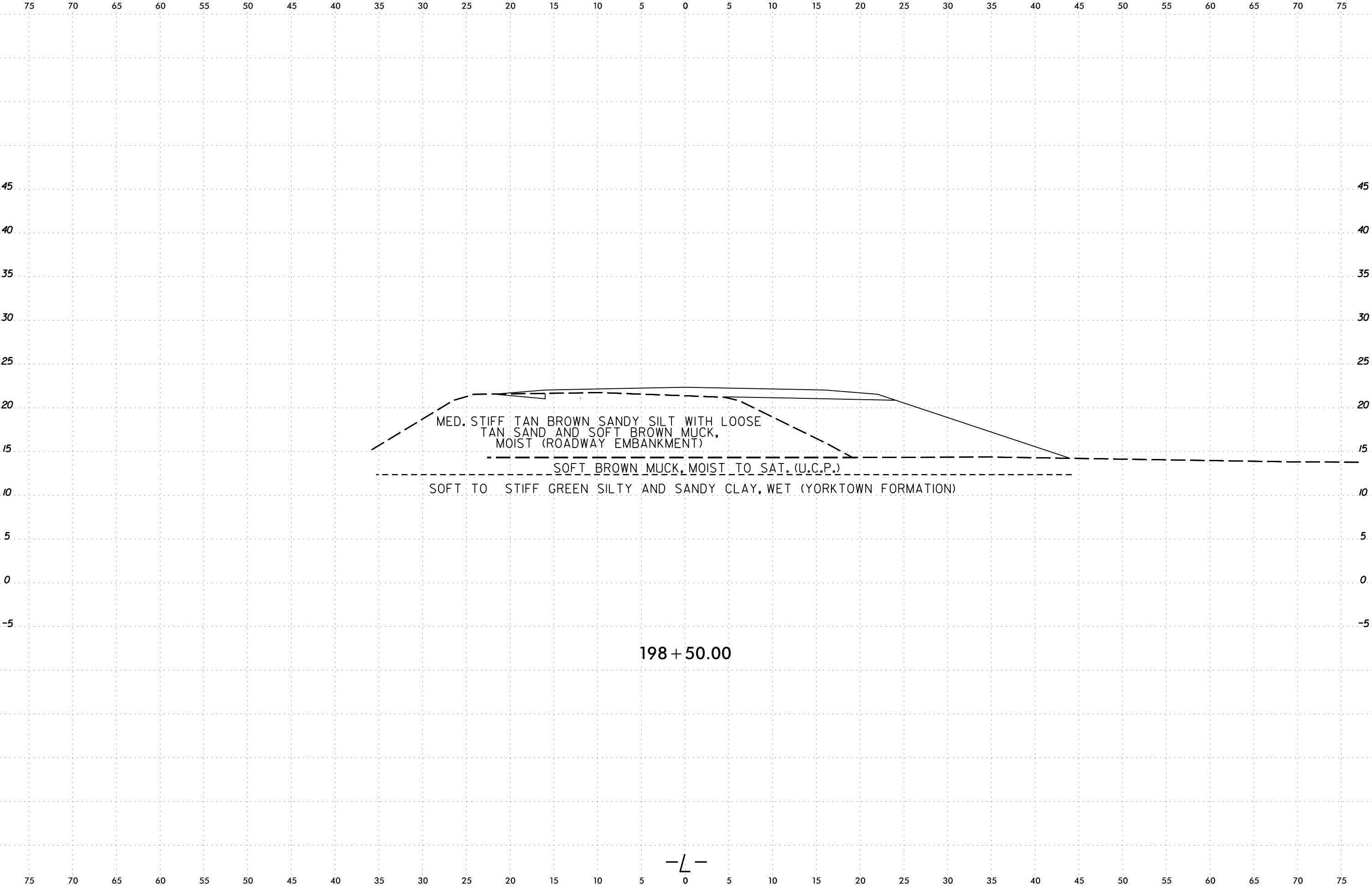


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6/23/16

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Lee Stone AT LSTONE-CAD-PC

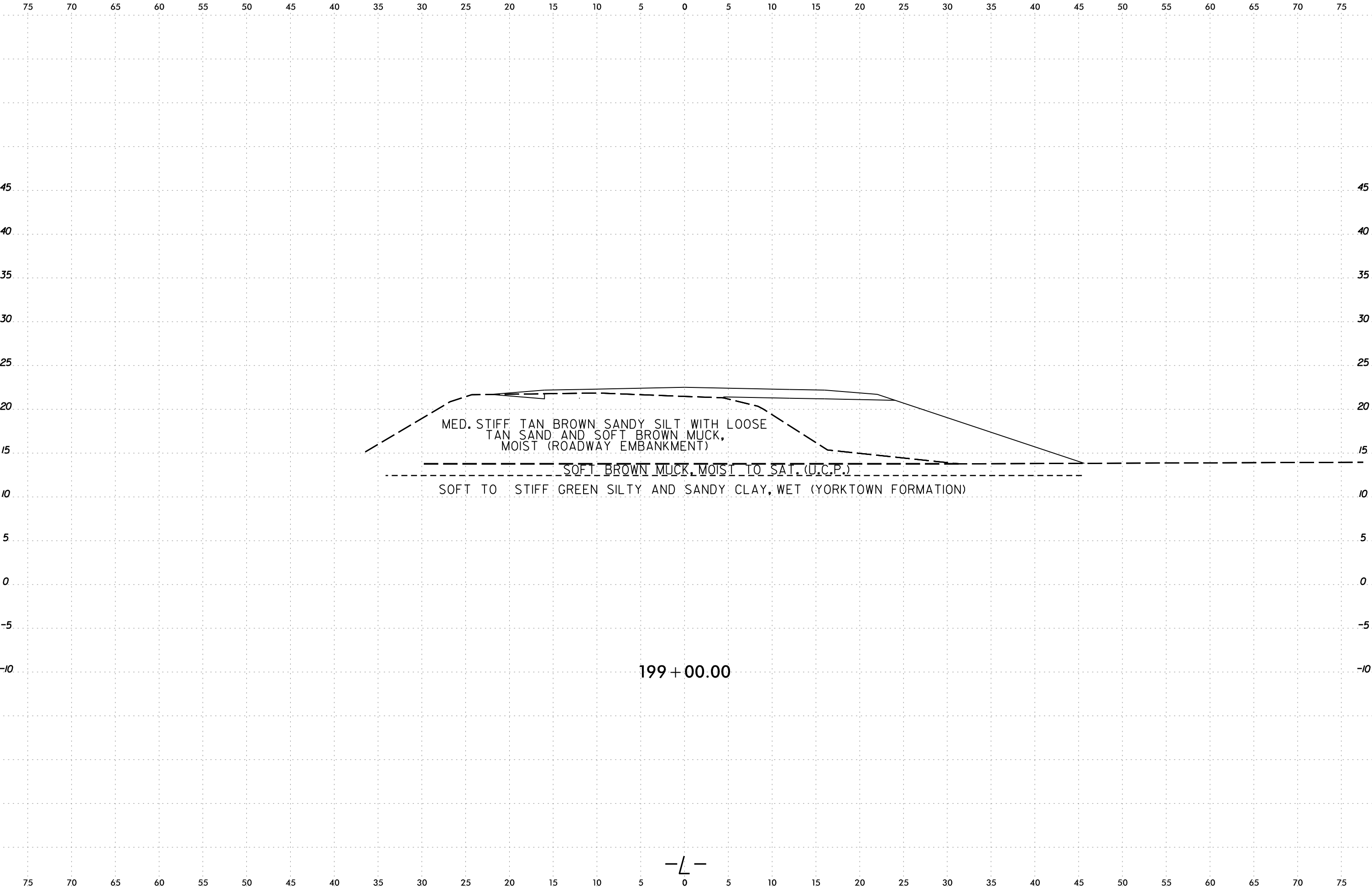
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	R-5808	392



6/23/16

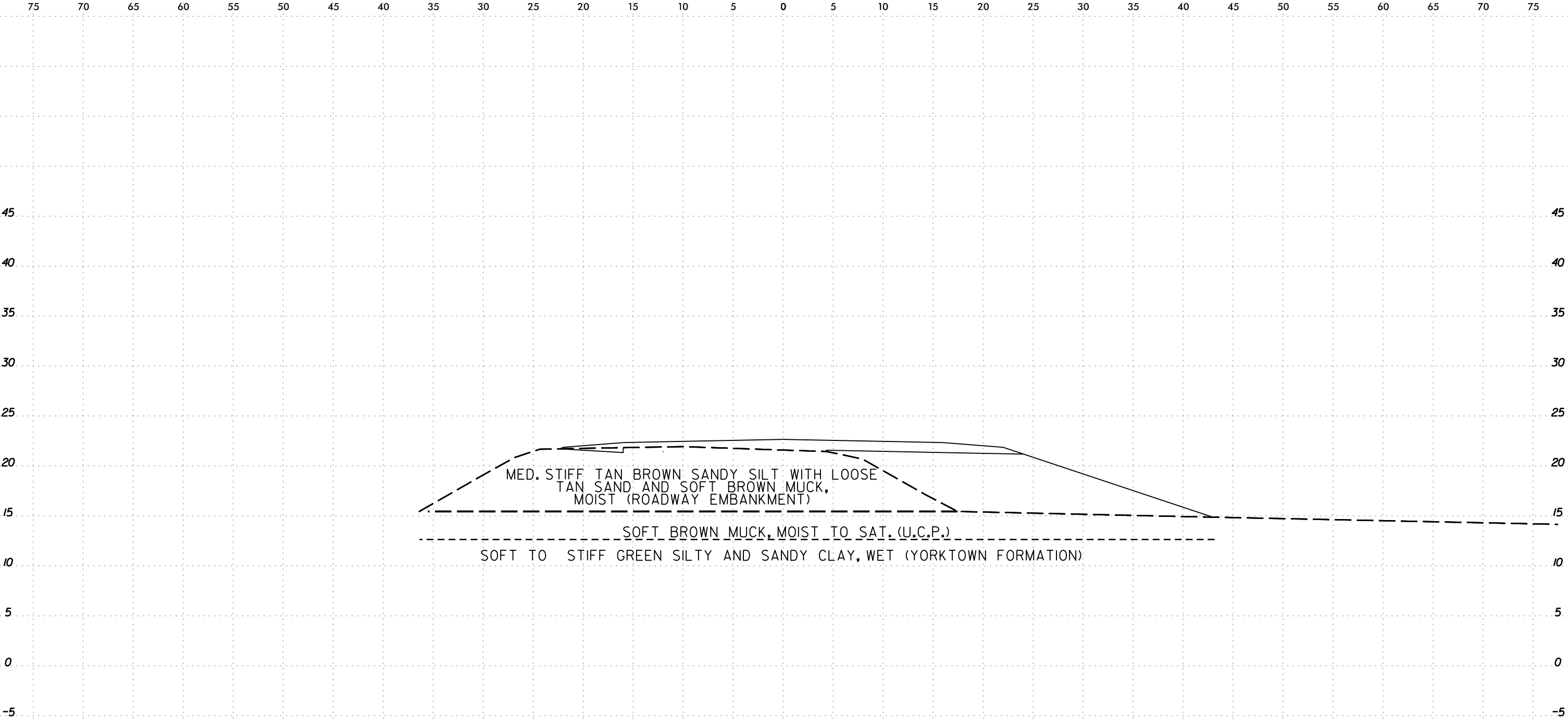
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	393



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	394

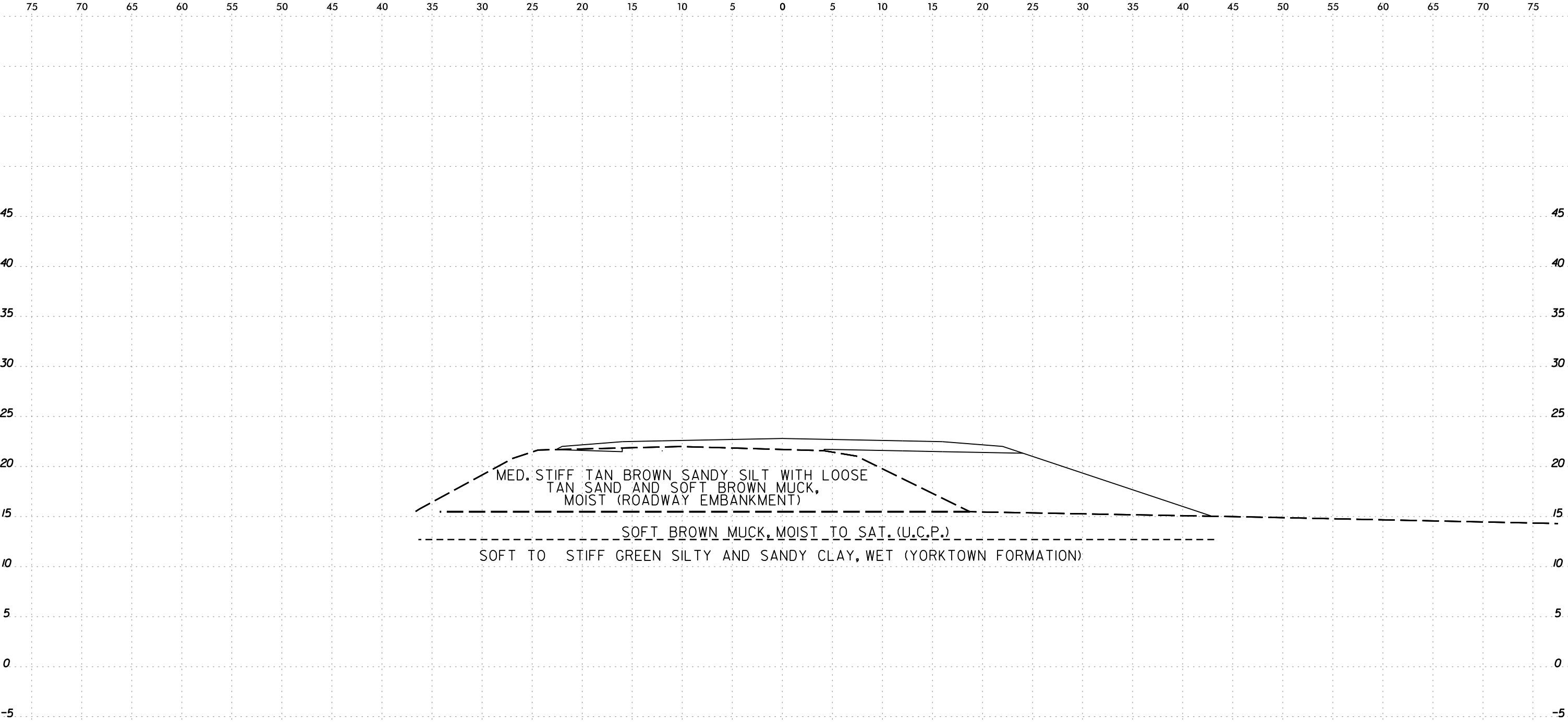


199 + 50.00

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6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	395



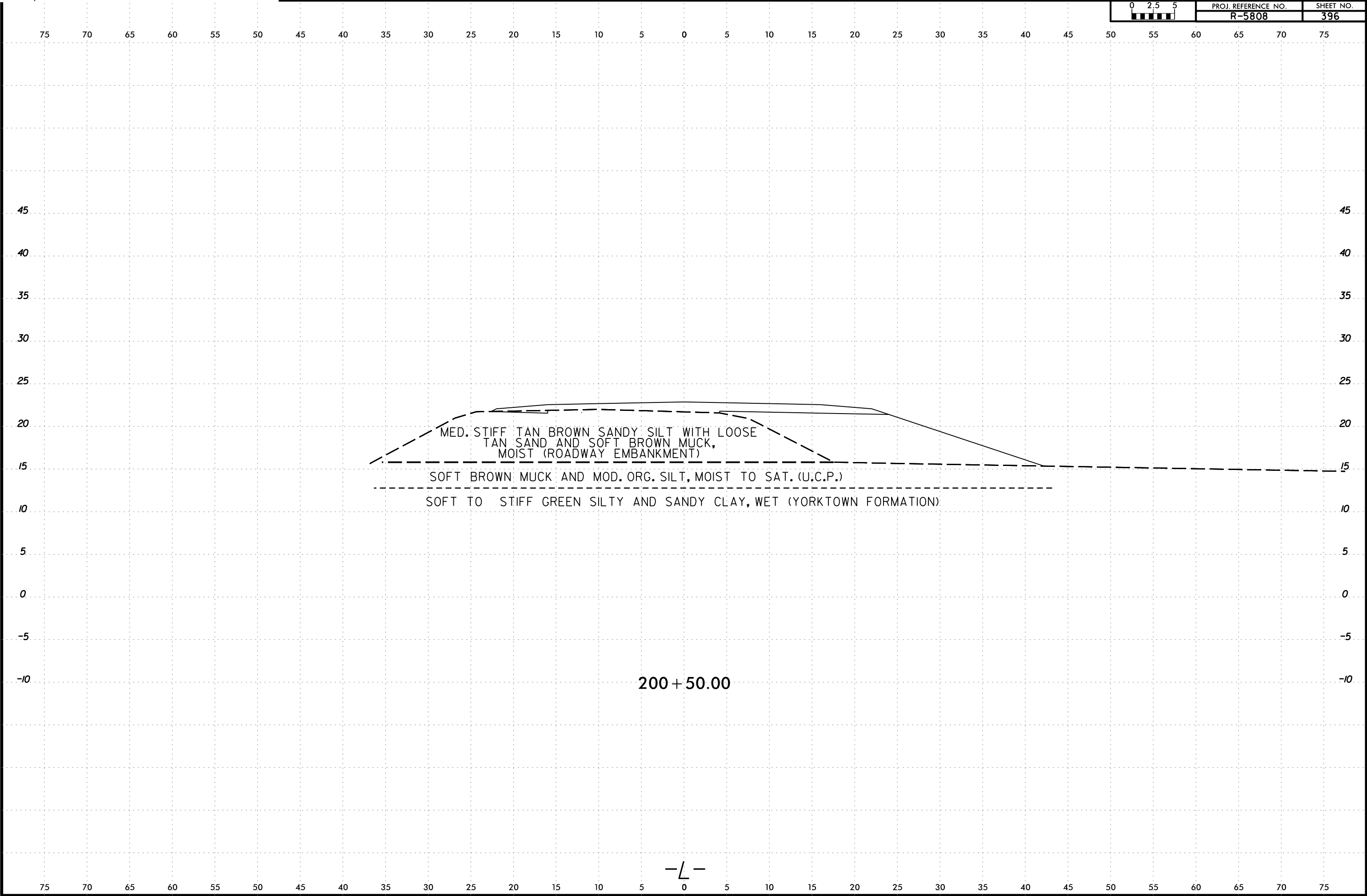
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6/23/16

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Lee Stone AT LSTONE-CAD-PC

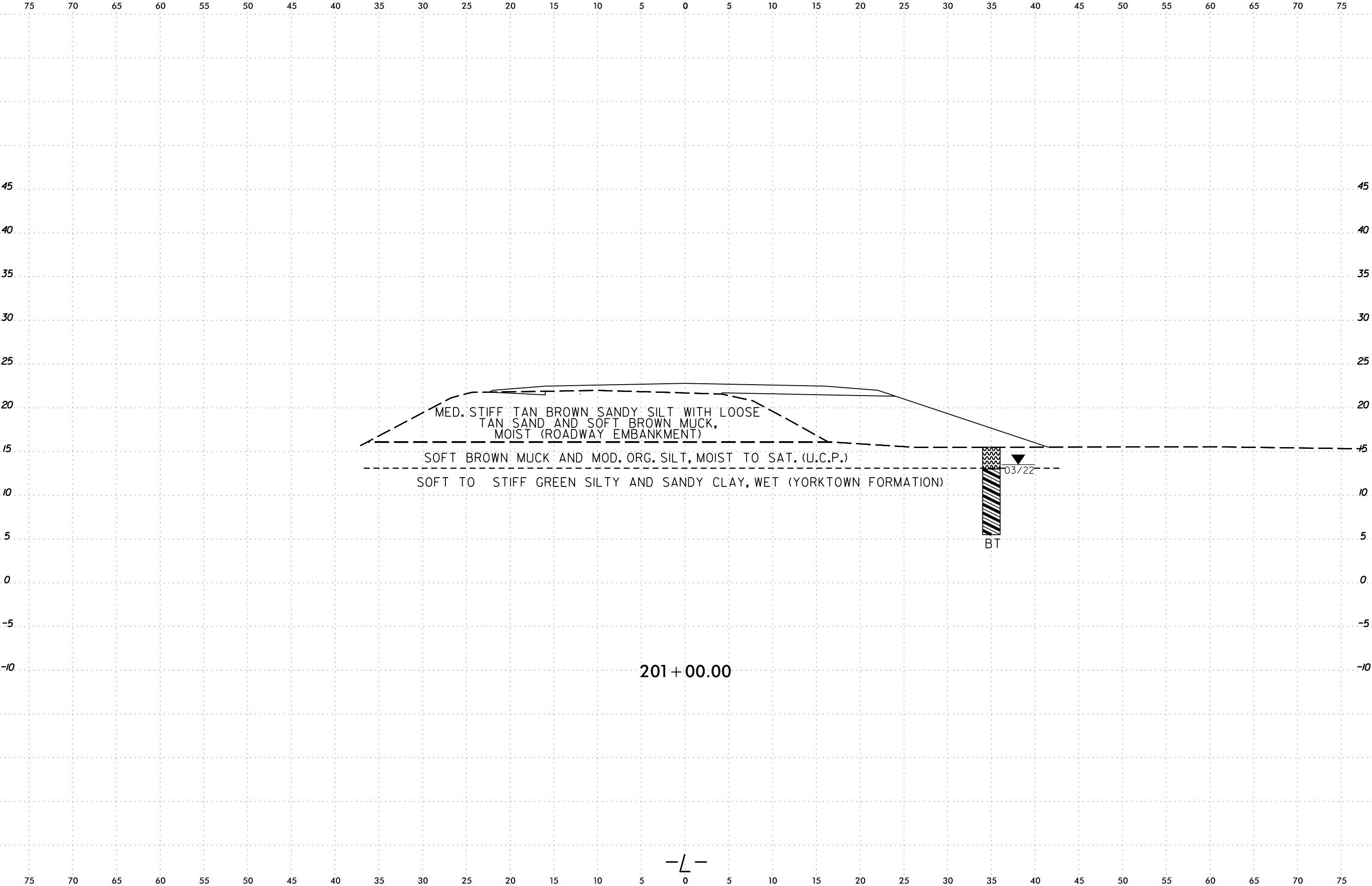
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	R-5808	396



6/23/16

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Lee Stone AT LSTONE-CAD-PC

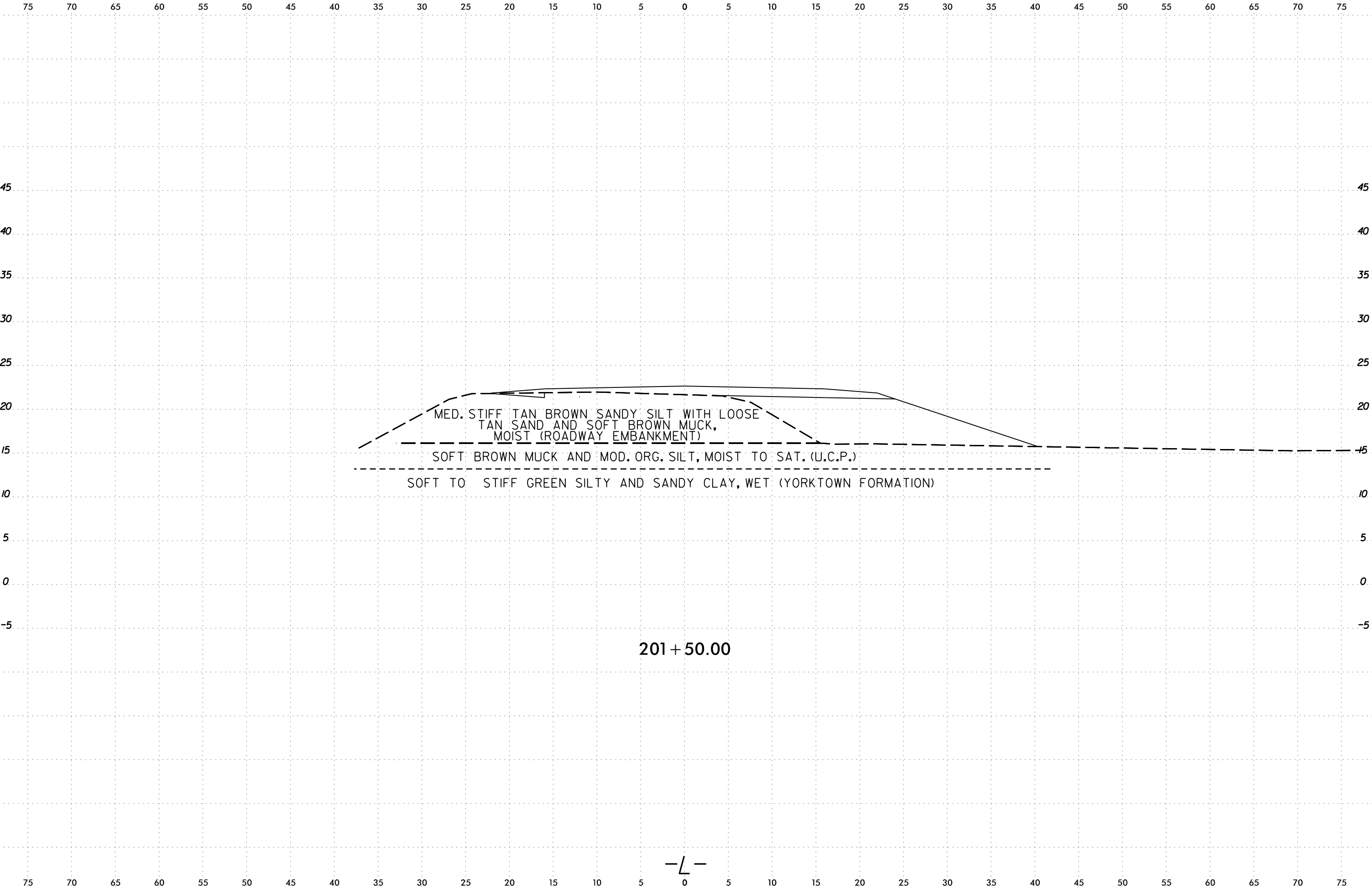
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	R-5808	397



6/23/16

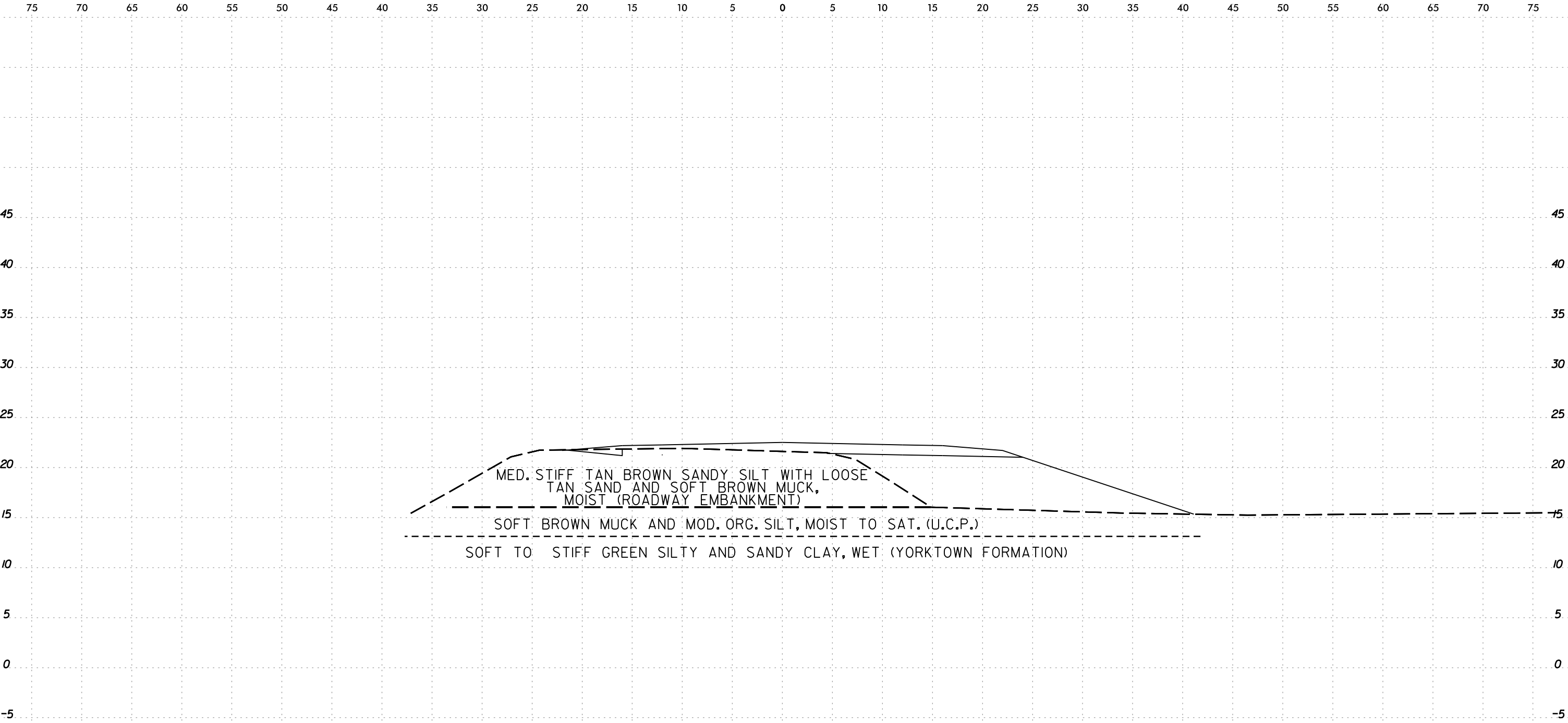
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	398



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	399



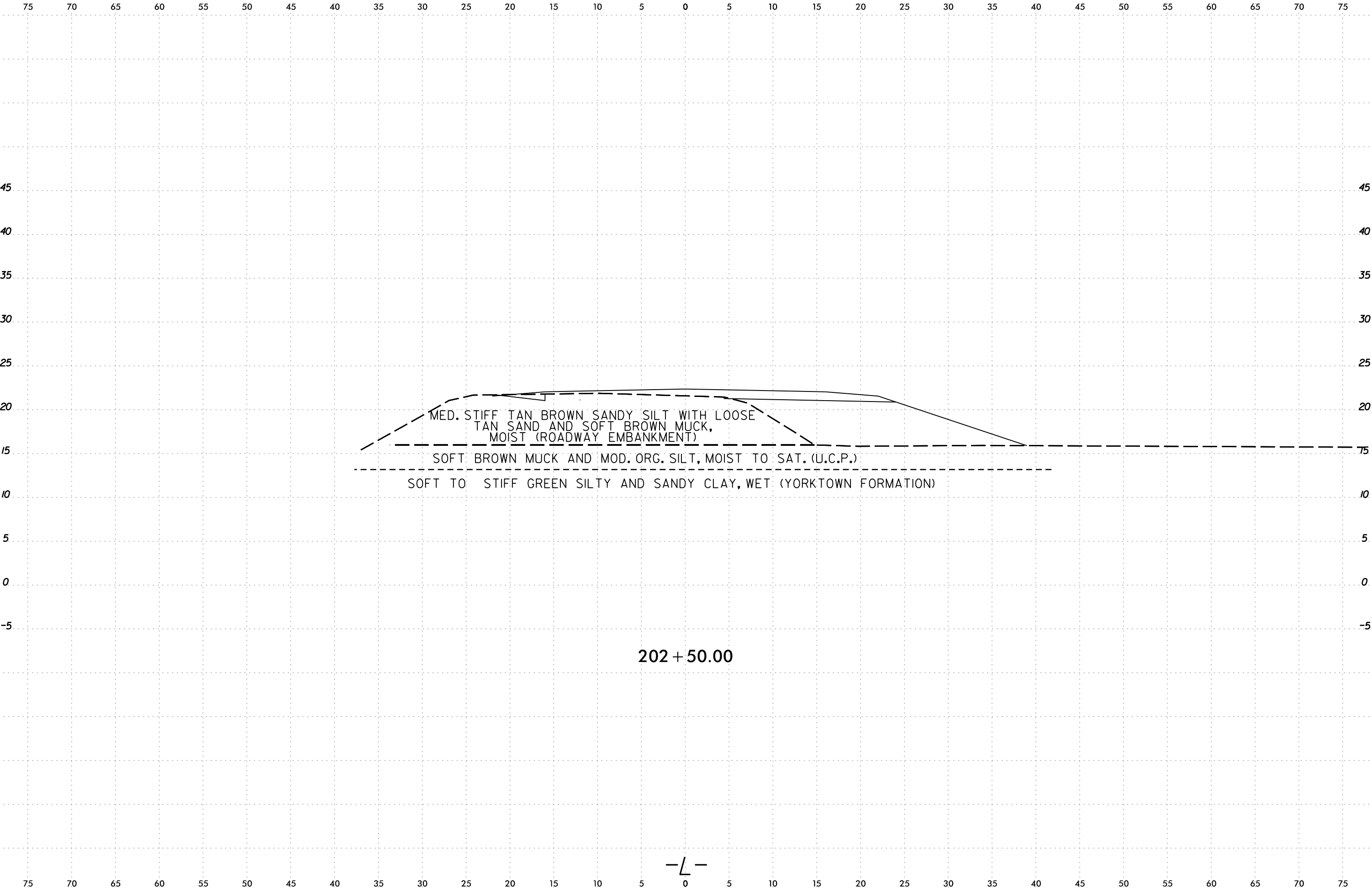
202 + 00.00

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6/23/16

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Lee Stone AT LSTONE-CAD-PC

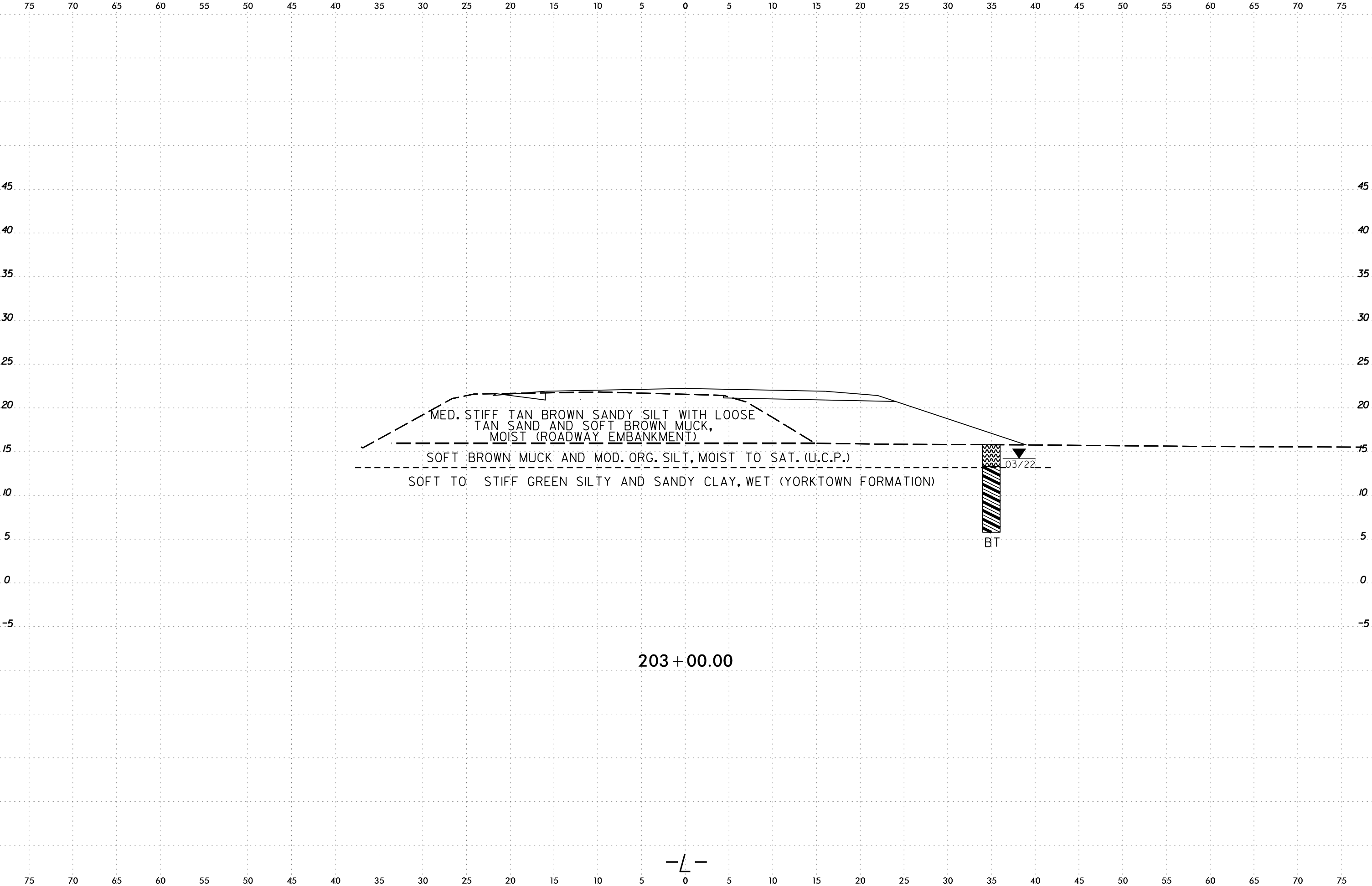
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	R-5808	400



6/23/16

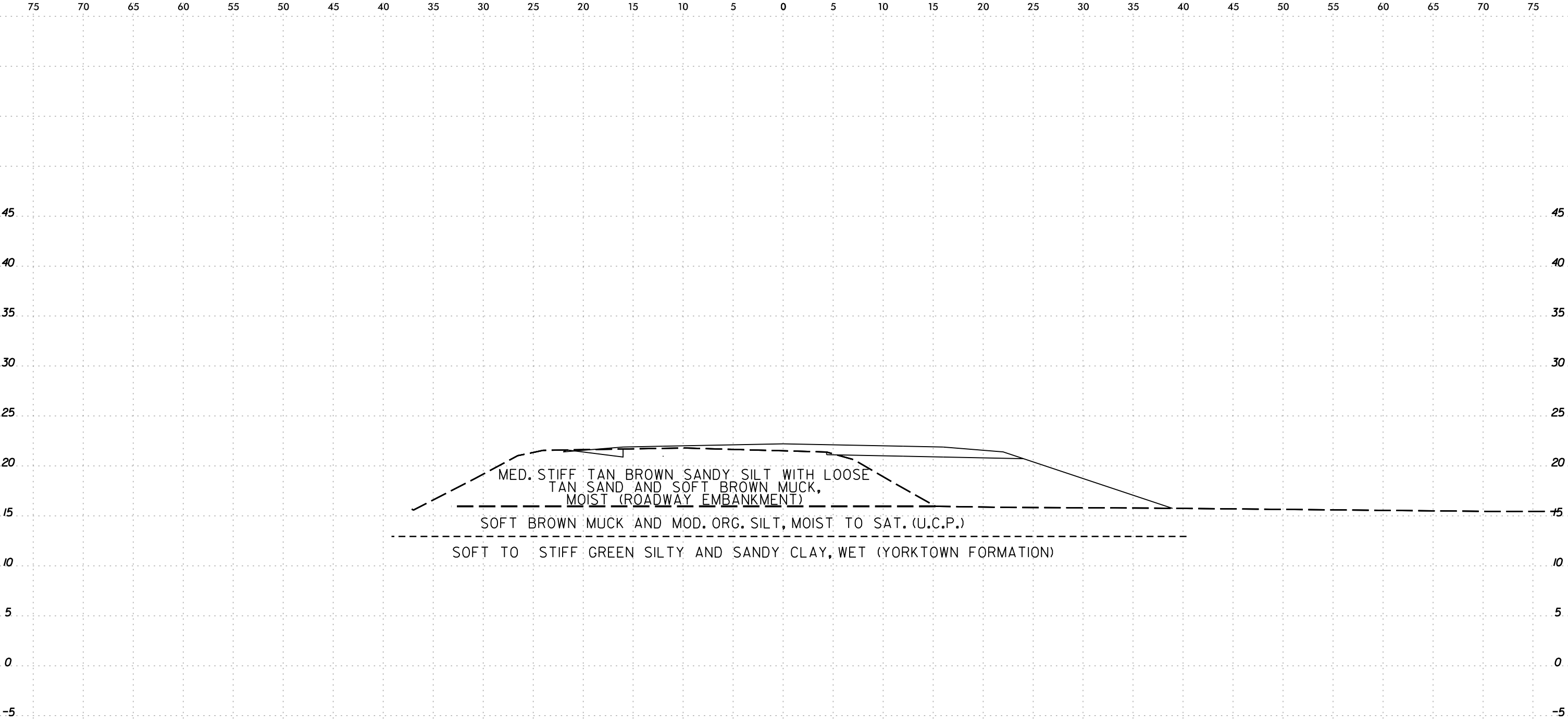
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C:\Users\Lee Stone\OneDrive - cotlinusa\Projects\NCDDT\R5808_GEO_ROW\CADD\GEOTECH\XSC\R5808_Geo_XSL_2.dgn
Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
0 2.5 5	R-5808	401



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	402



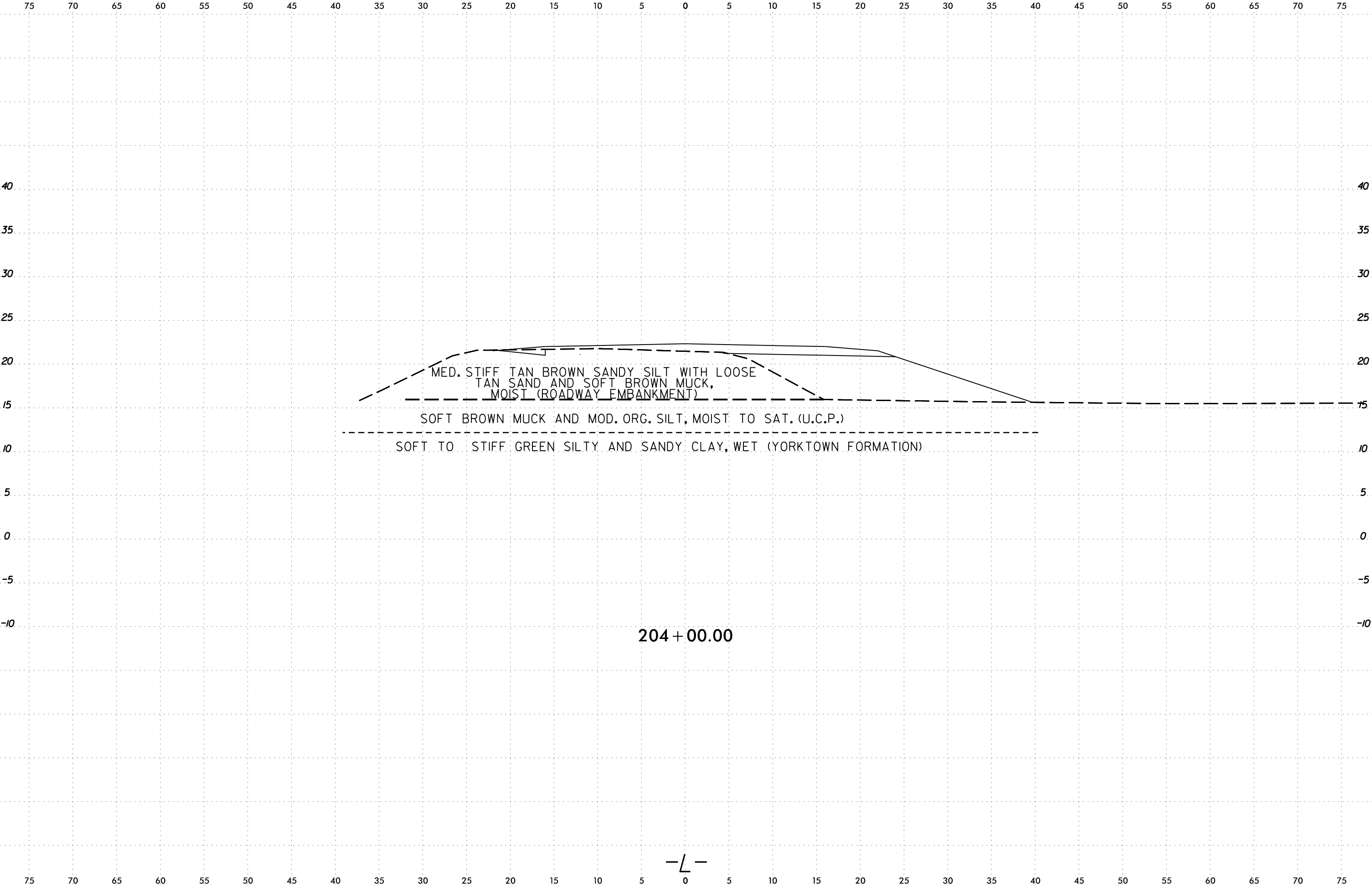
203 + 50.00

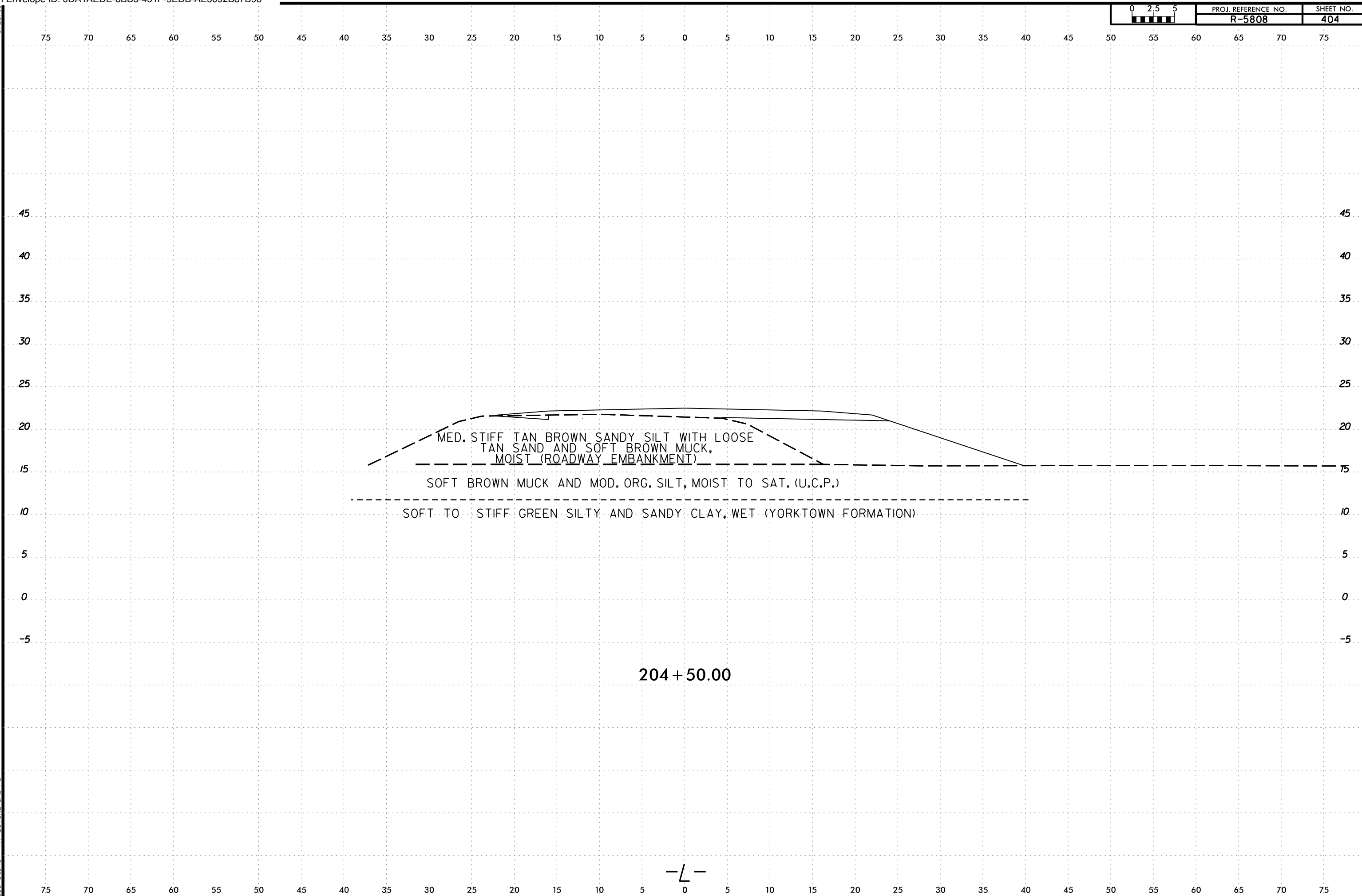
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6/23/16

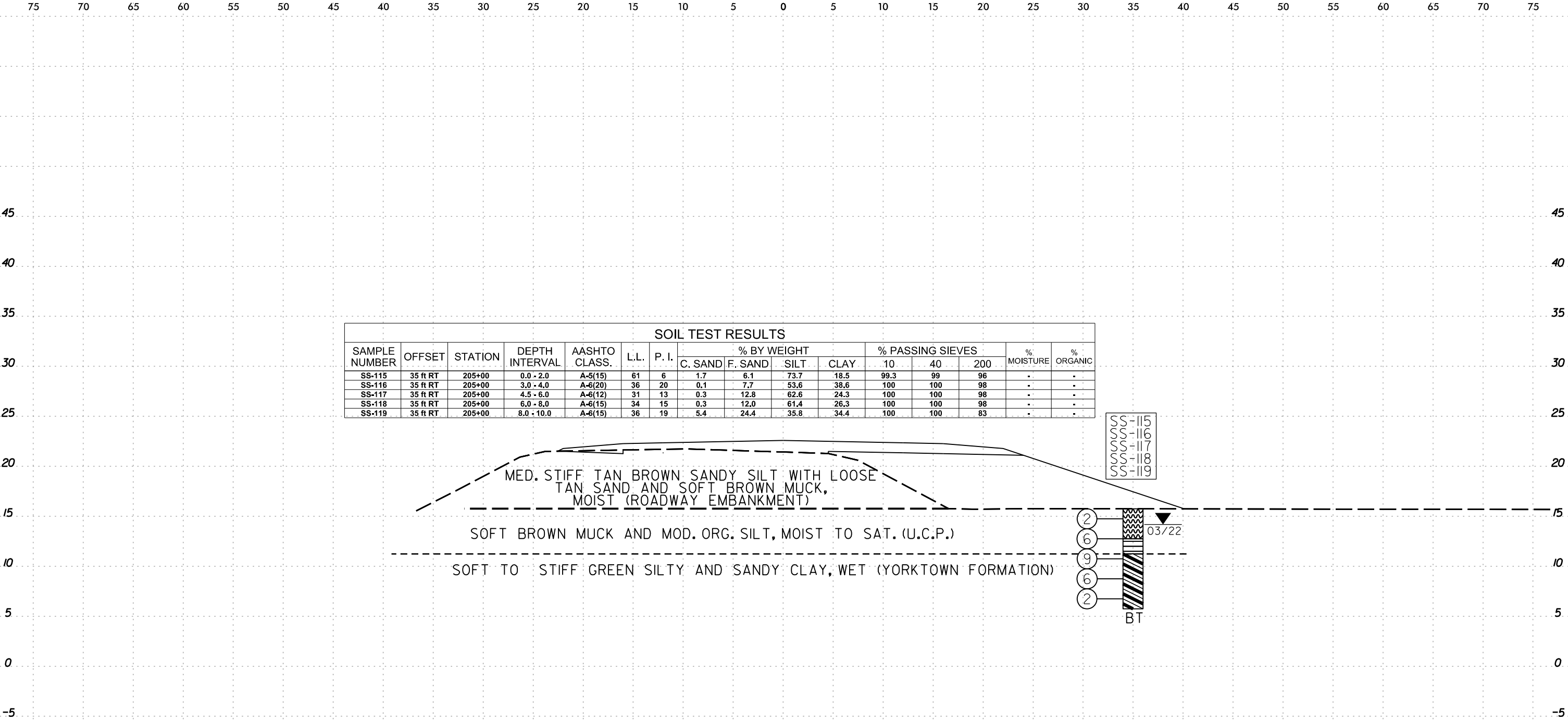
10-JAN-2023 11:58
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	403





6/23/16



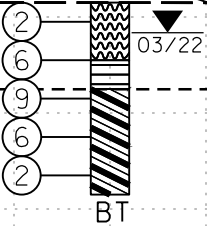
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P. I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-115	35 ft RT	205+00	0.0 - 2.0	A-5(15)	61	6	1.7	6.1	73.7	18.5	99.3	99	96	-	-
SS-116	35 ft RT	205+00	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)



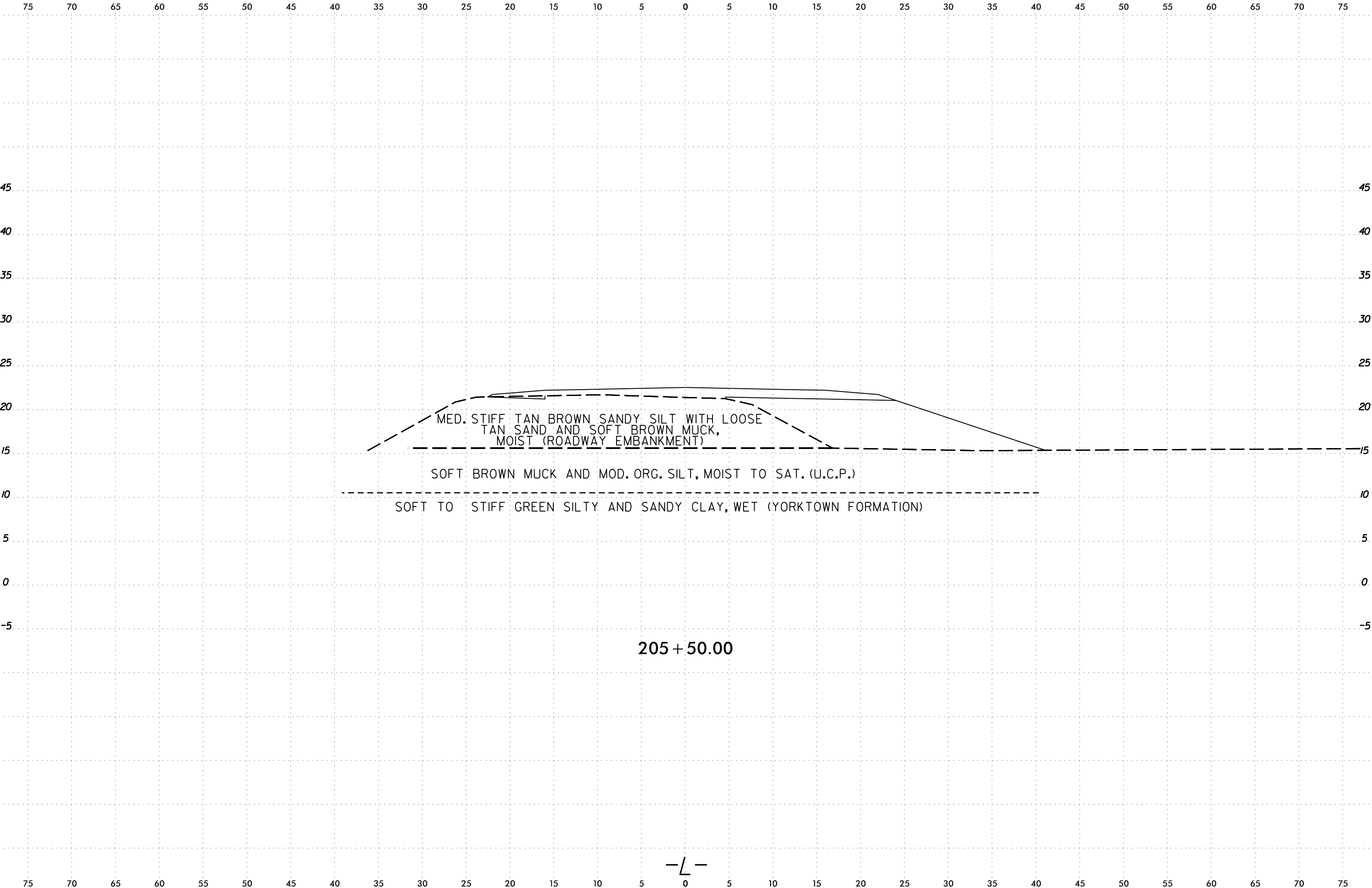
205 + 00.00

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6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	406

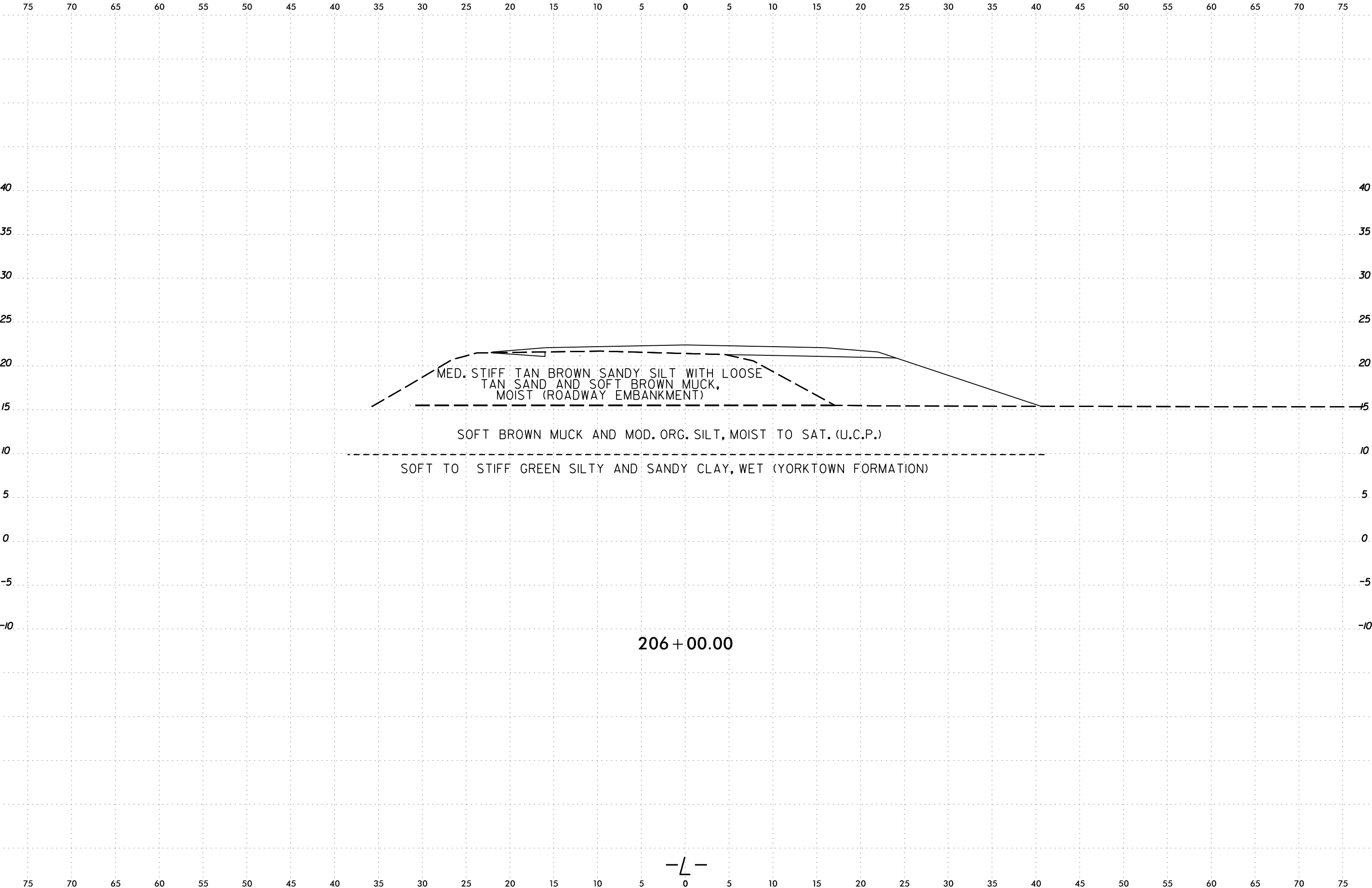


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6/23/16

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Lee Stone AT LSTONE-CAD-PC

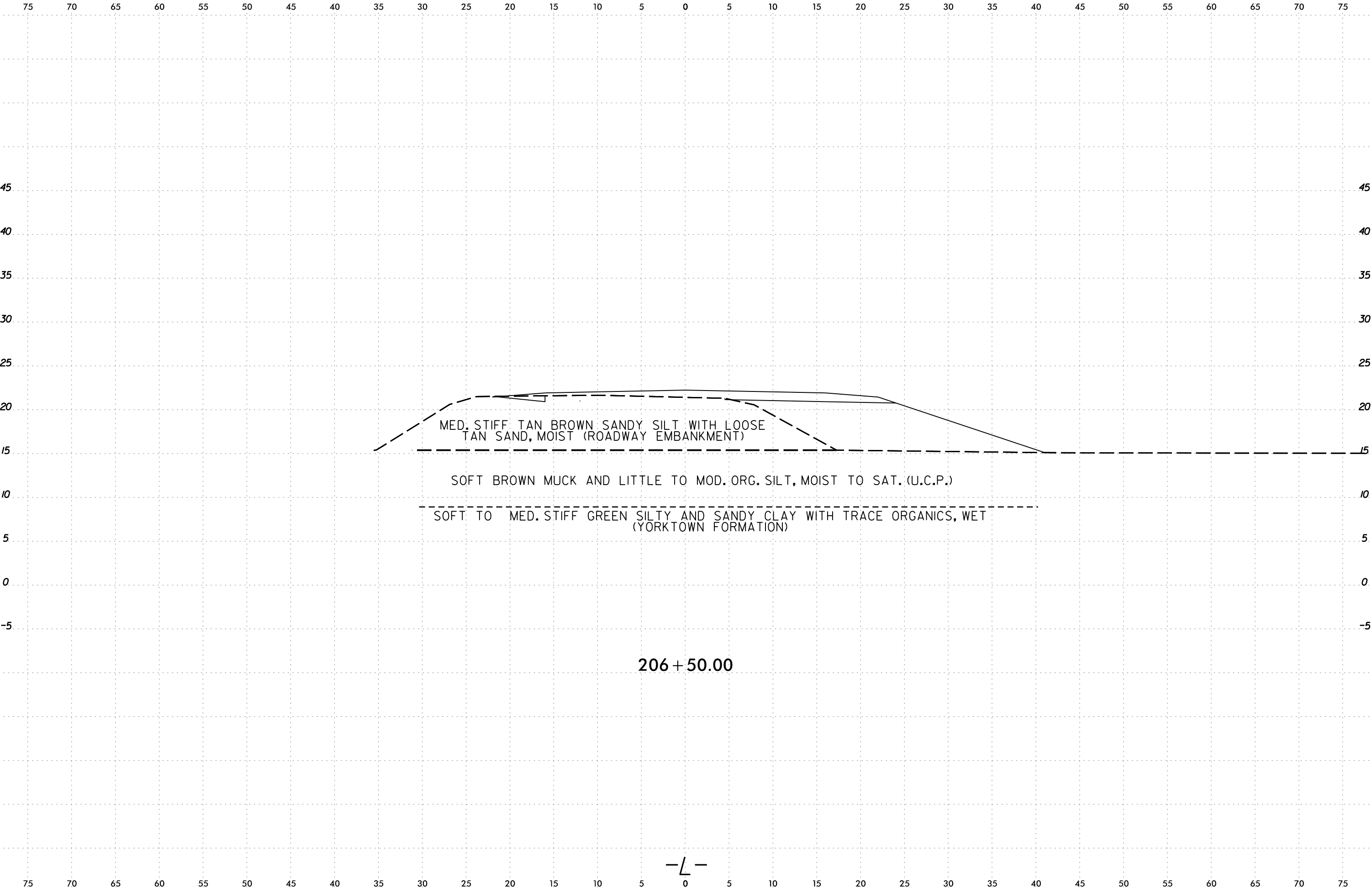
02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	407



6/23/16

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Lee Stone AT LSTONE-CAD-PC

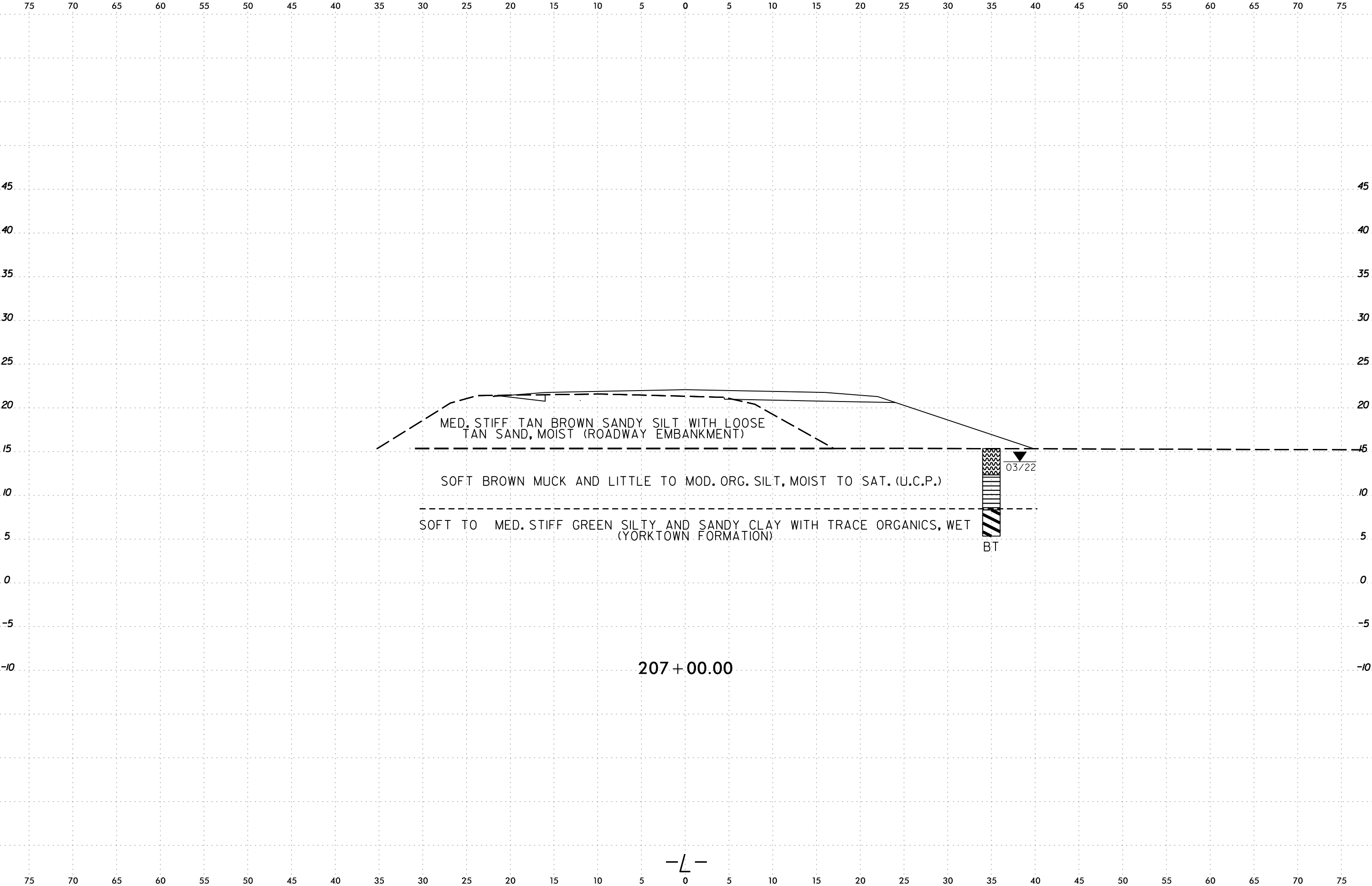
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	R-5808	408



6/23/16

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Lee Stone AT LSTONE-CAD-PC

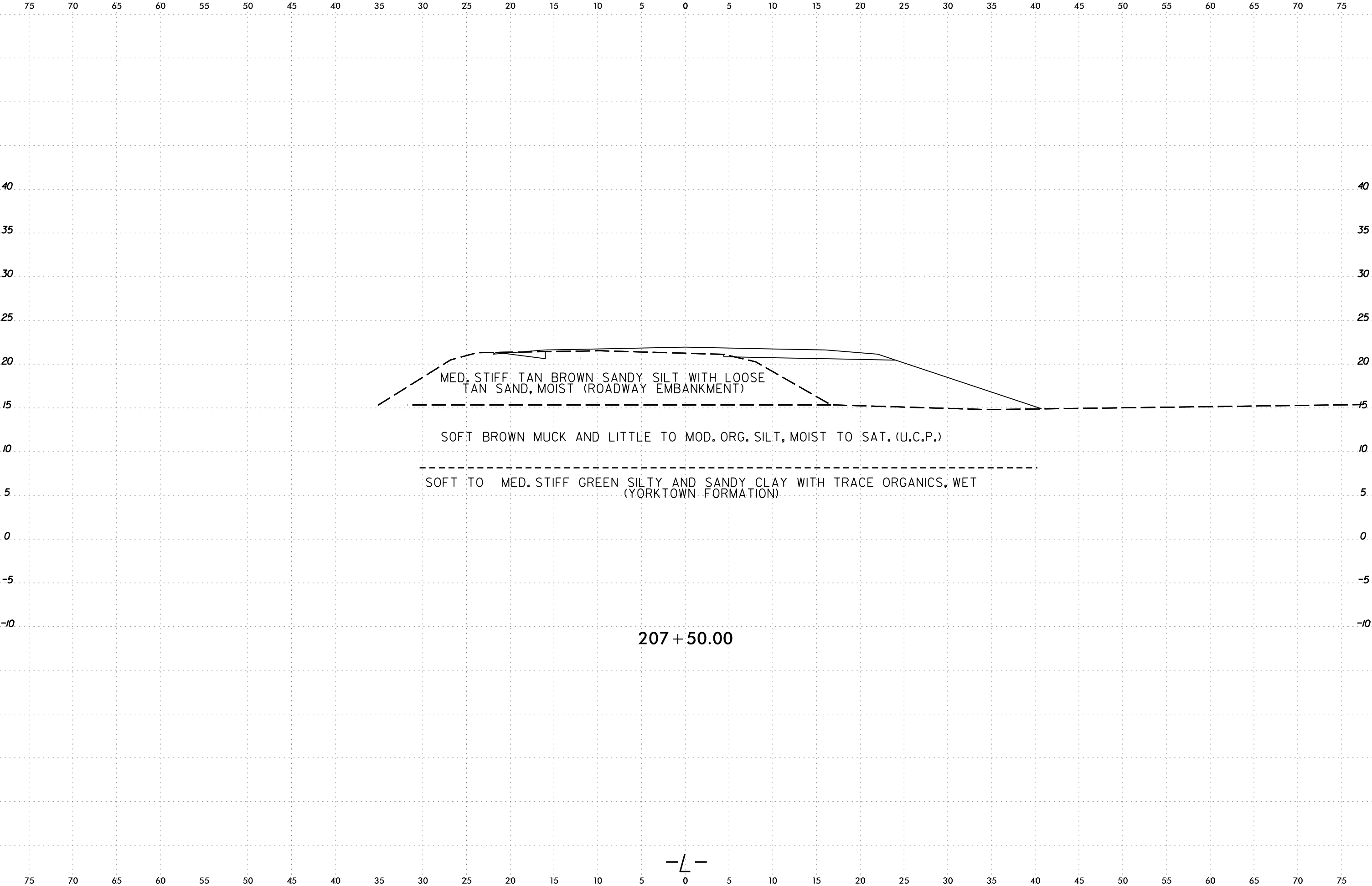
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	R-5808	409



6/23/16

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Lee Stone AT LSTONE-CAD-PC

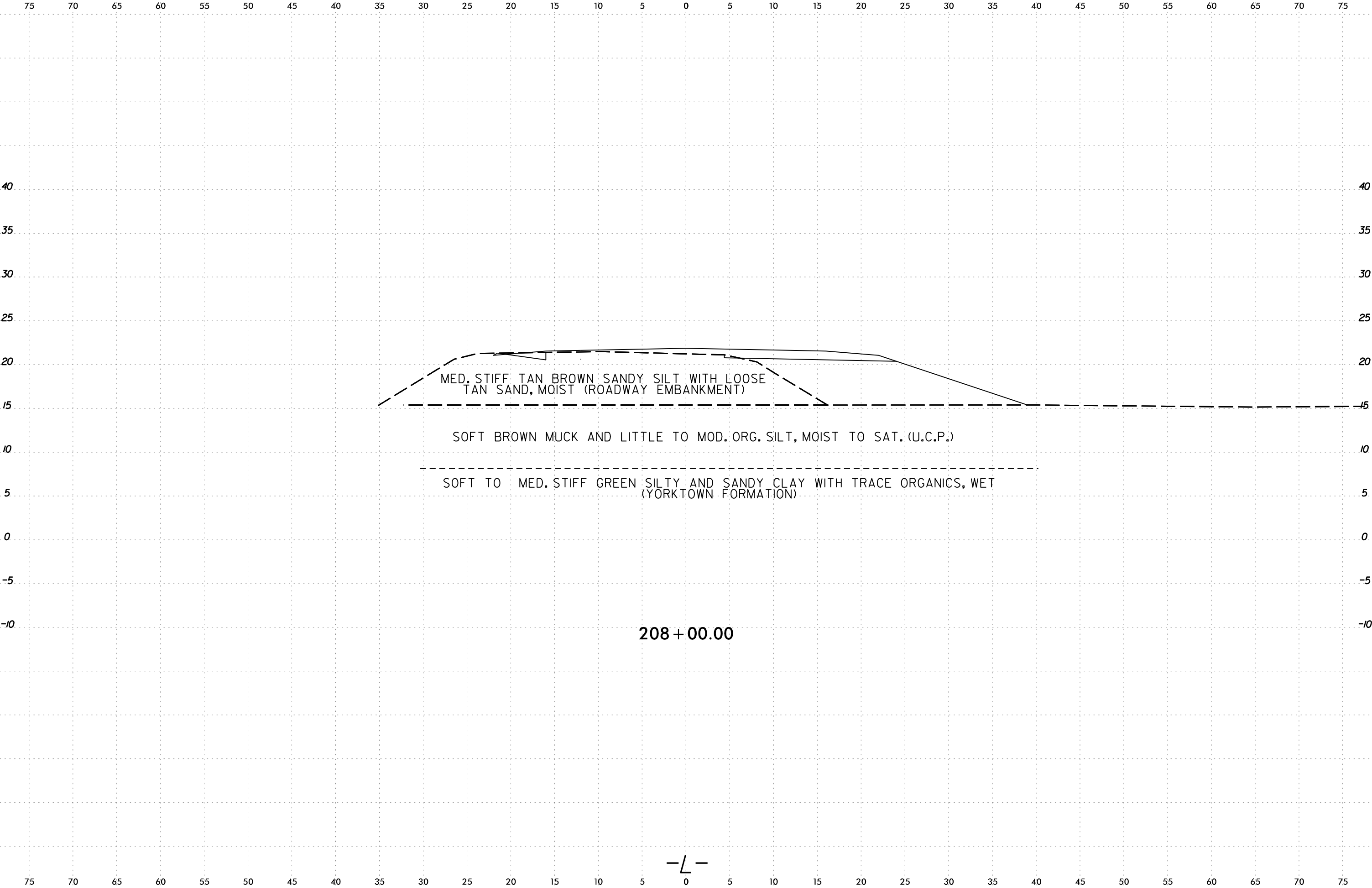
	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	410



6/23/16

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Lee Stone AT LSTONE-CAD-PC

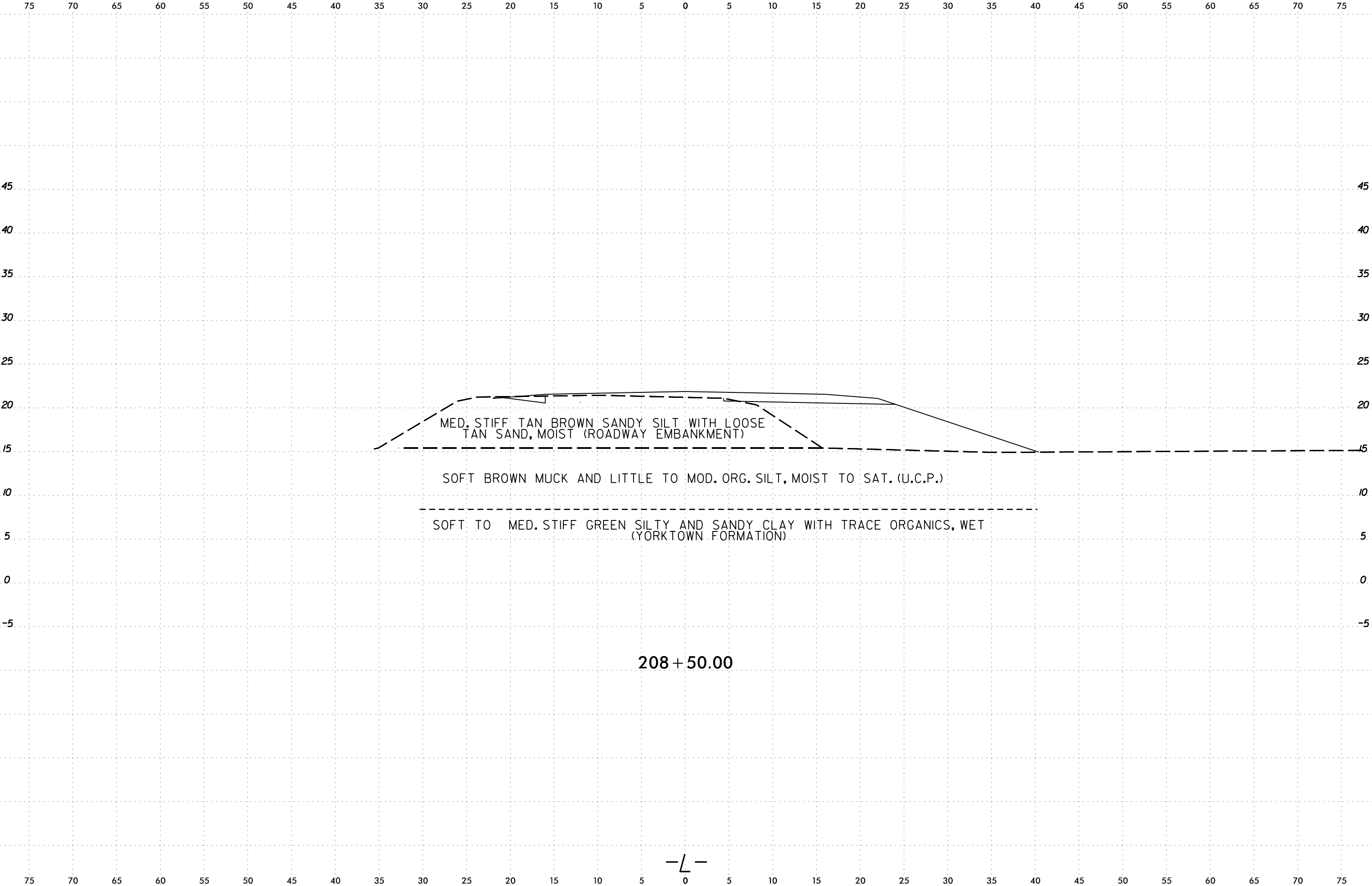
02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	411



6/23/16

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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	412



6/23/16

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Lee Stone AT LSTONE-CAD-PC

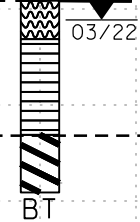
02.55	PROJ. REFERENCE NO.	SHEET NO.
0 2.5 5	R-5808	413

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

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)



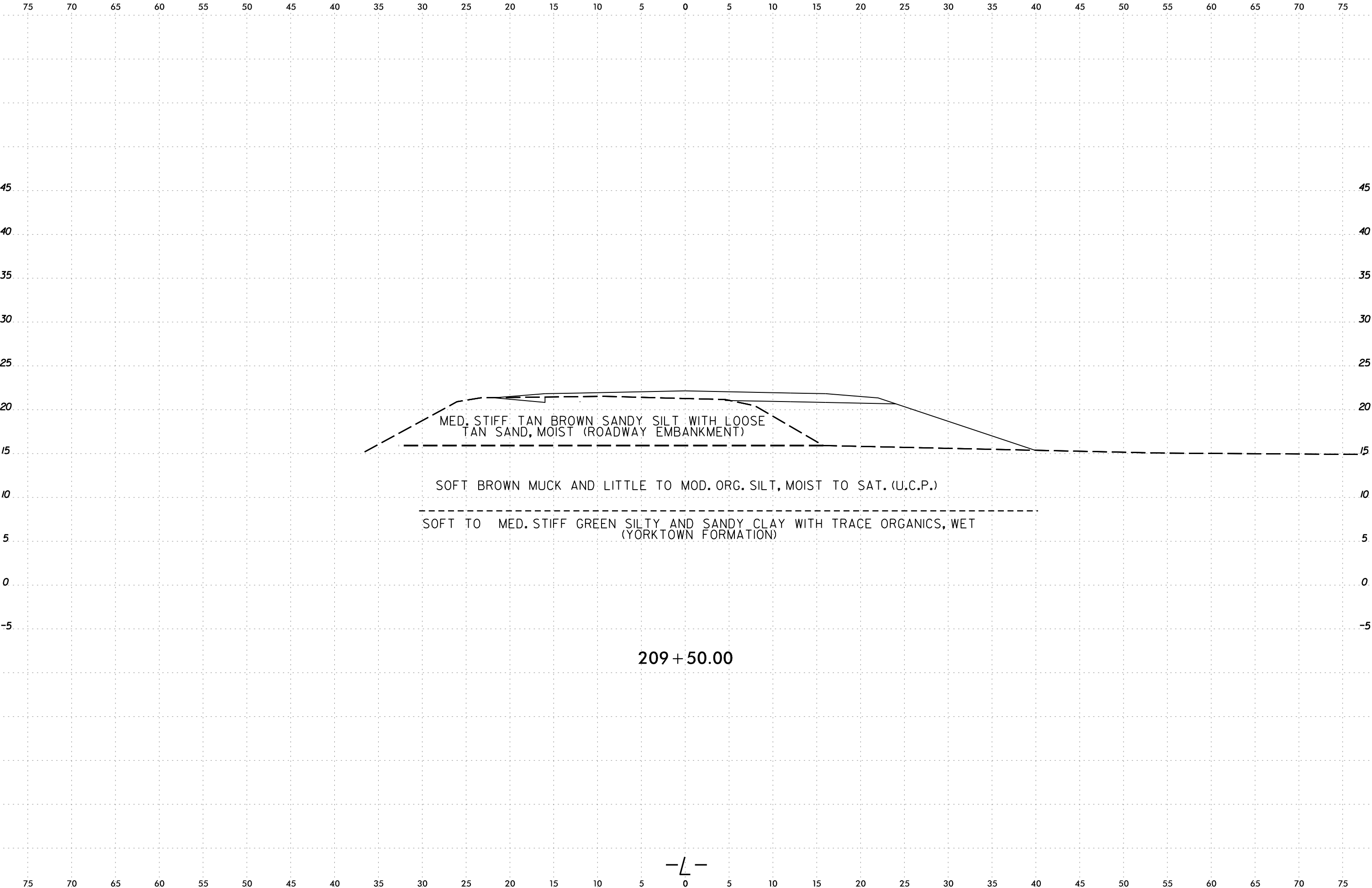
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6/23/16

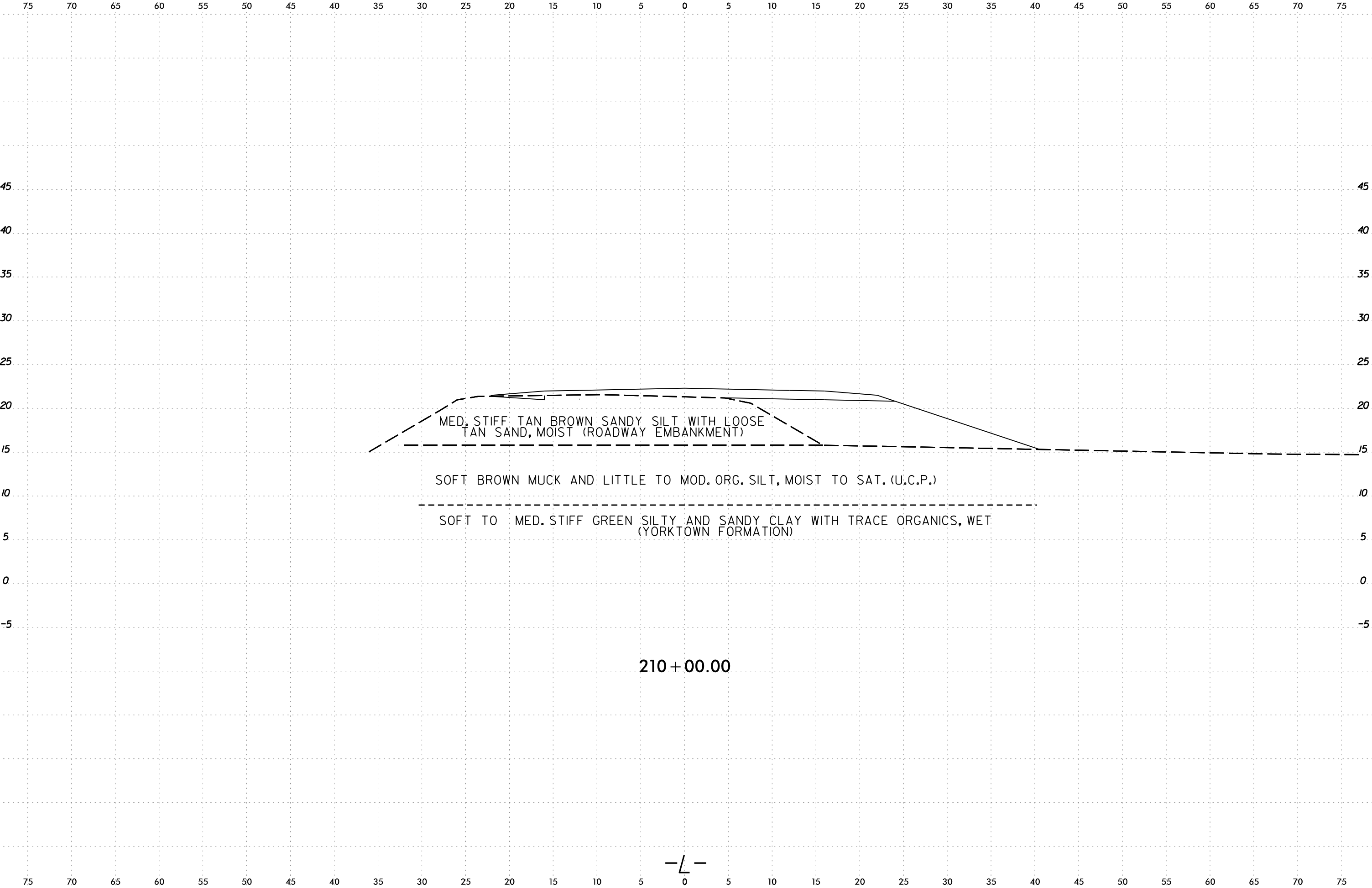
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	414



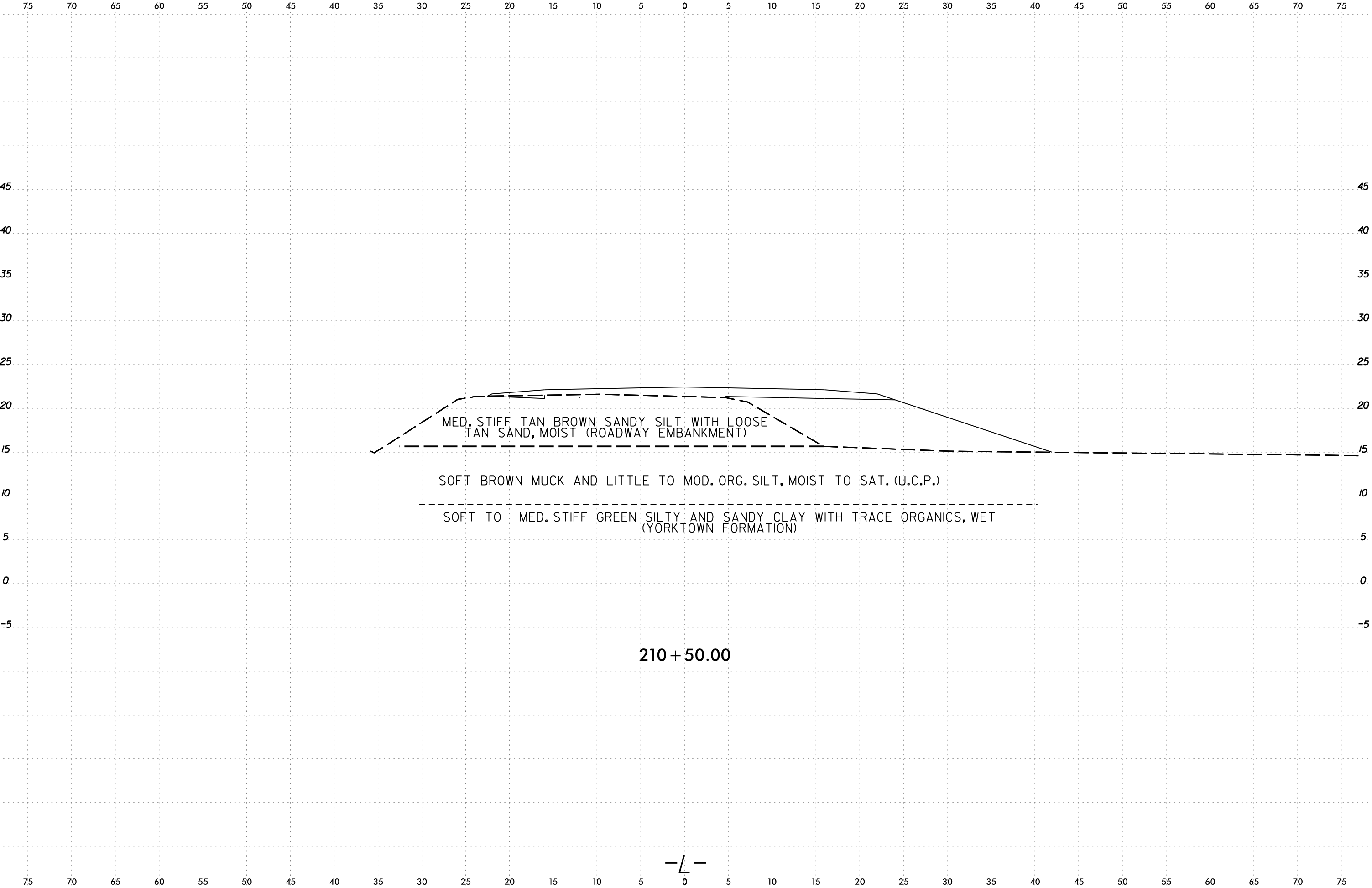
6/23/16

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	R-5808	415



6/23/16

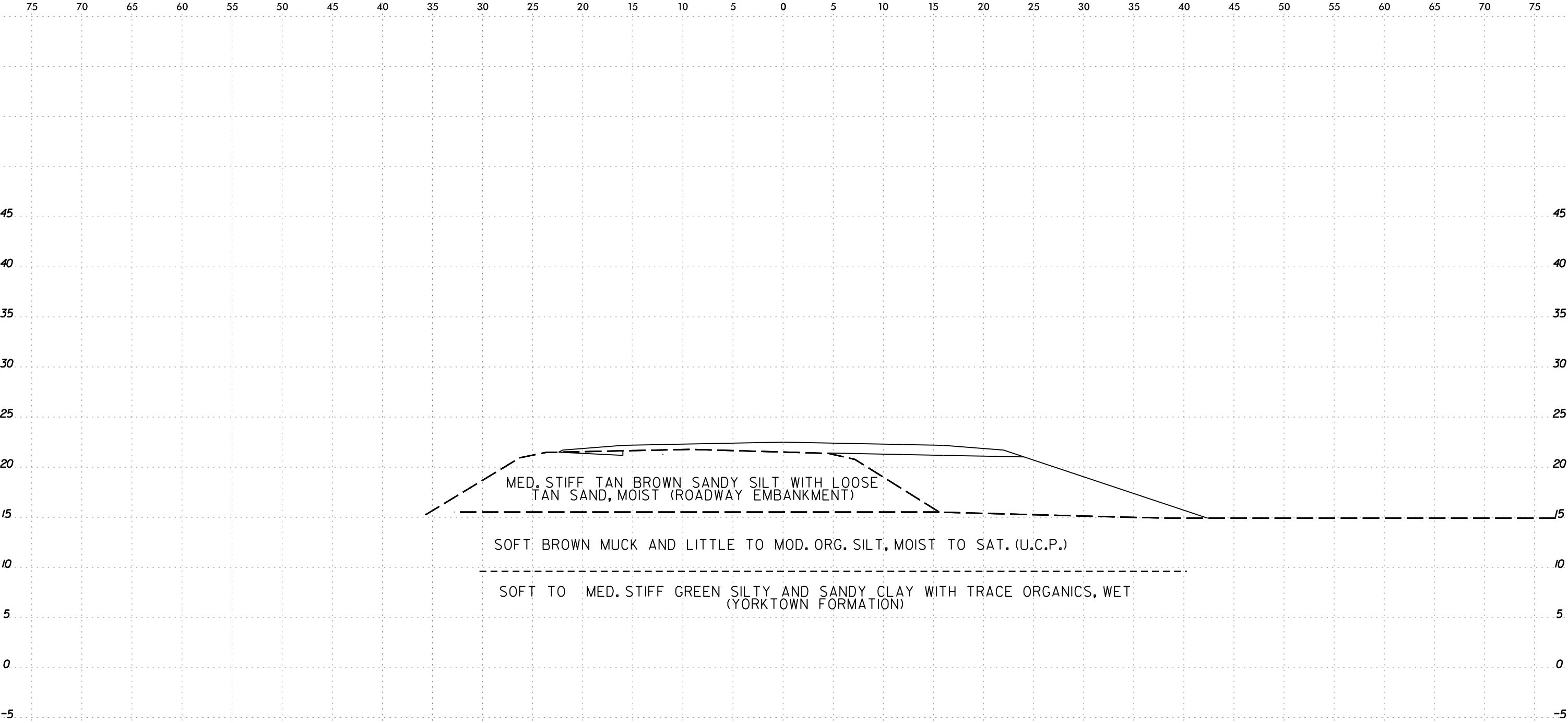
02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	416





6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	418



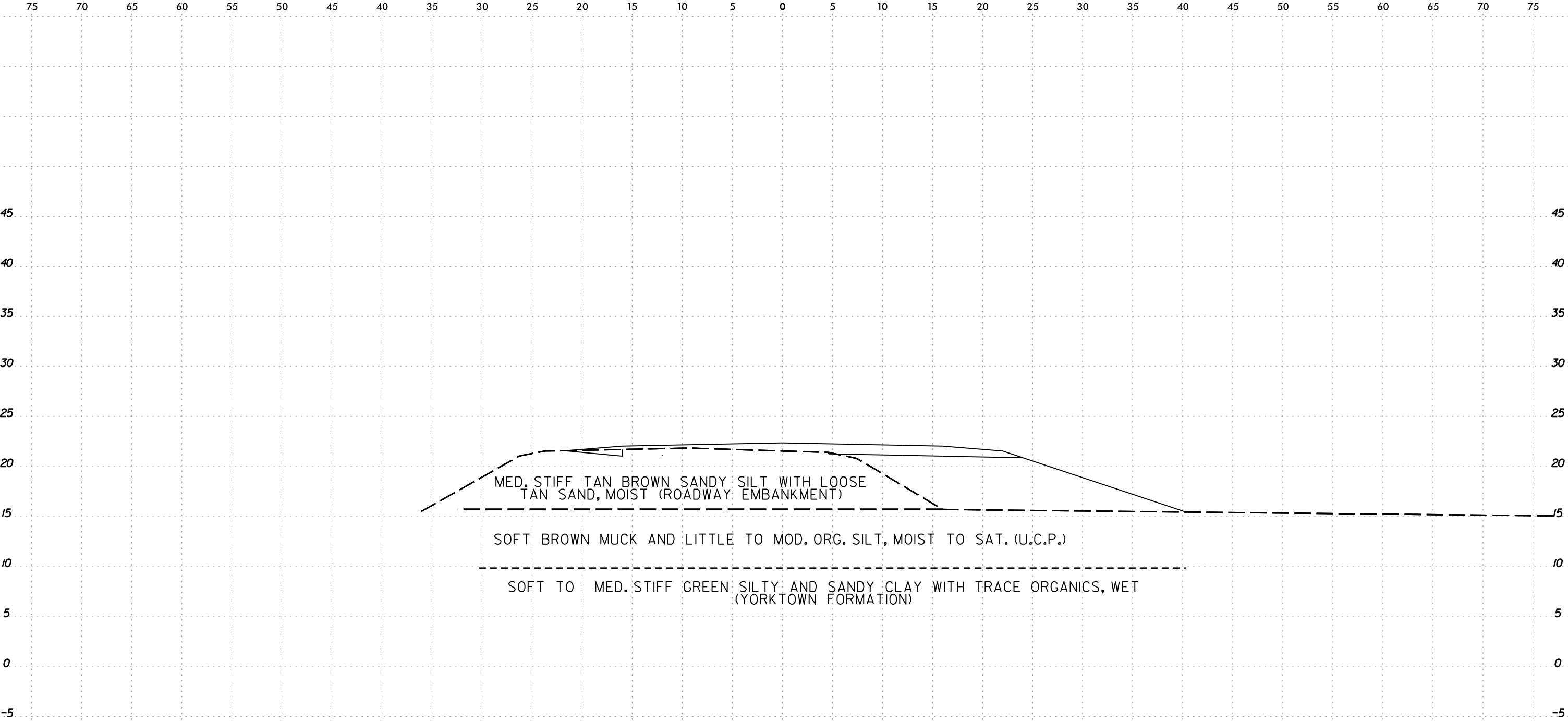
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Lee Stone AT LSTONE-CAD-PC

6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	419



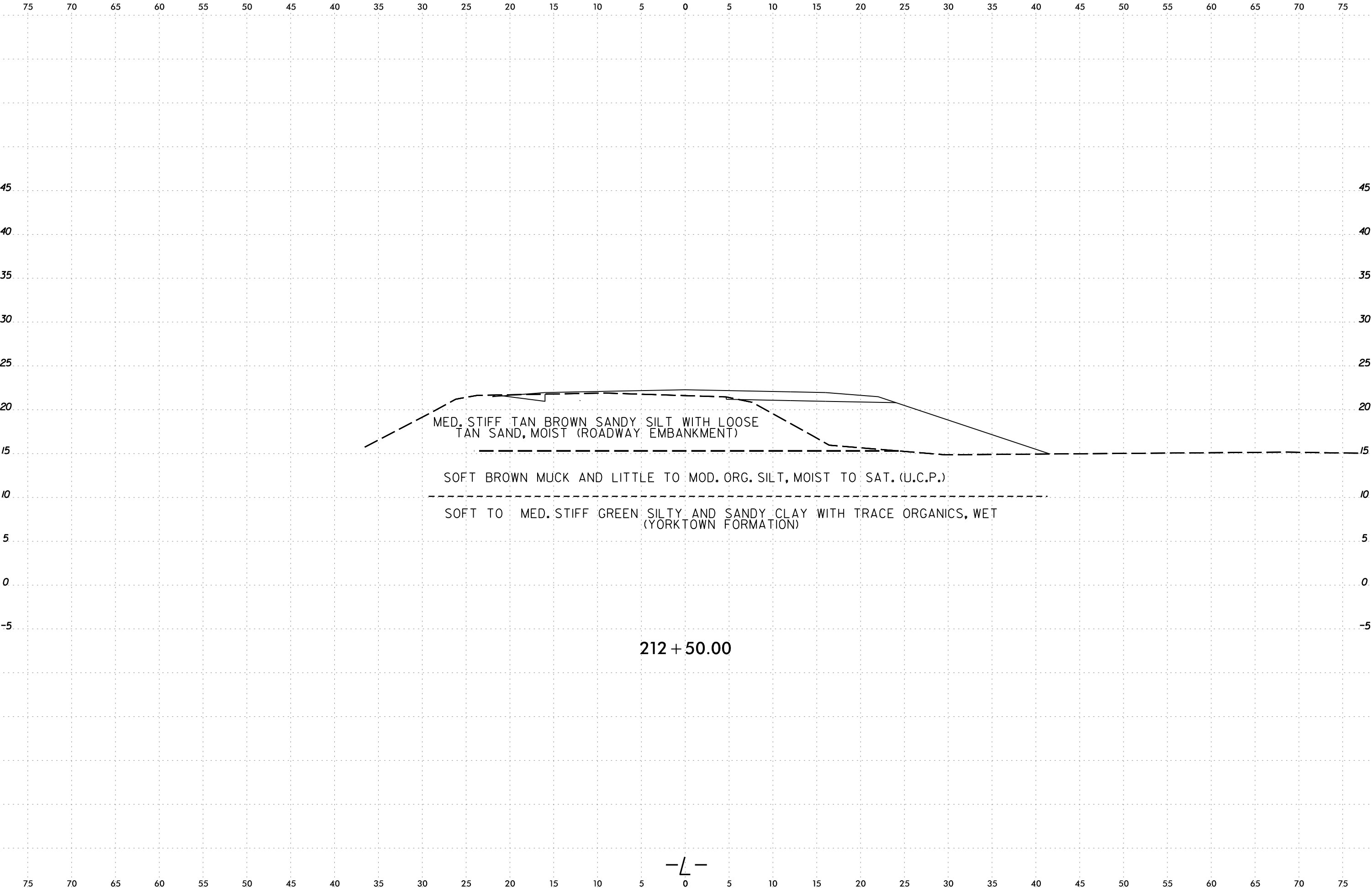
212 + 00.00

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6/23/16

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Lee Stone AT LSTONE-CAD-PC

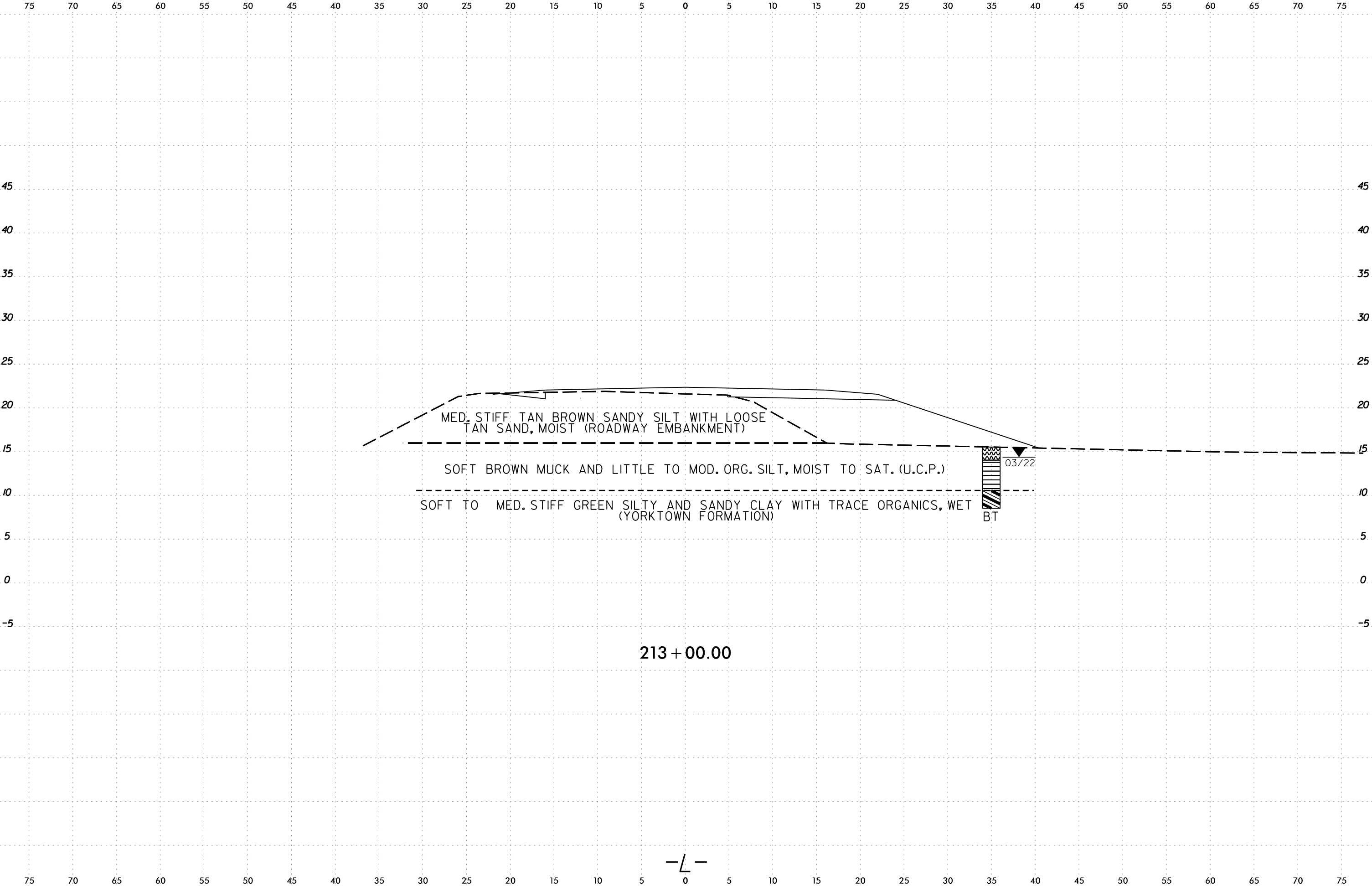
02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	420



6/23/16

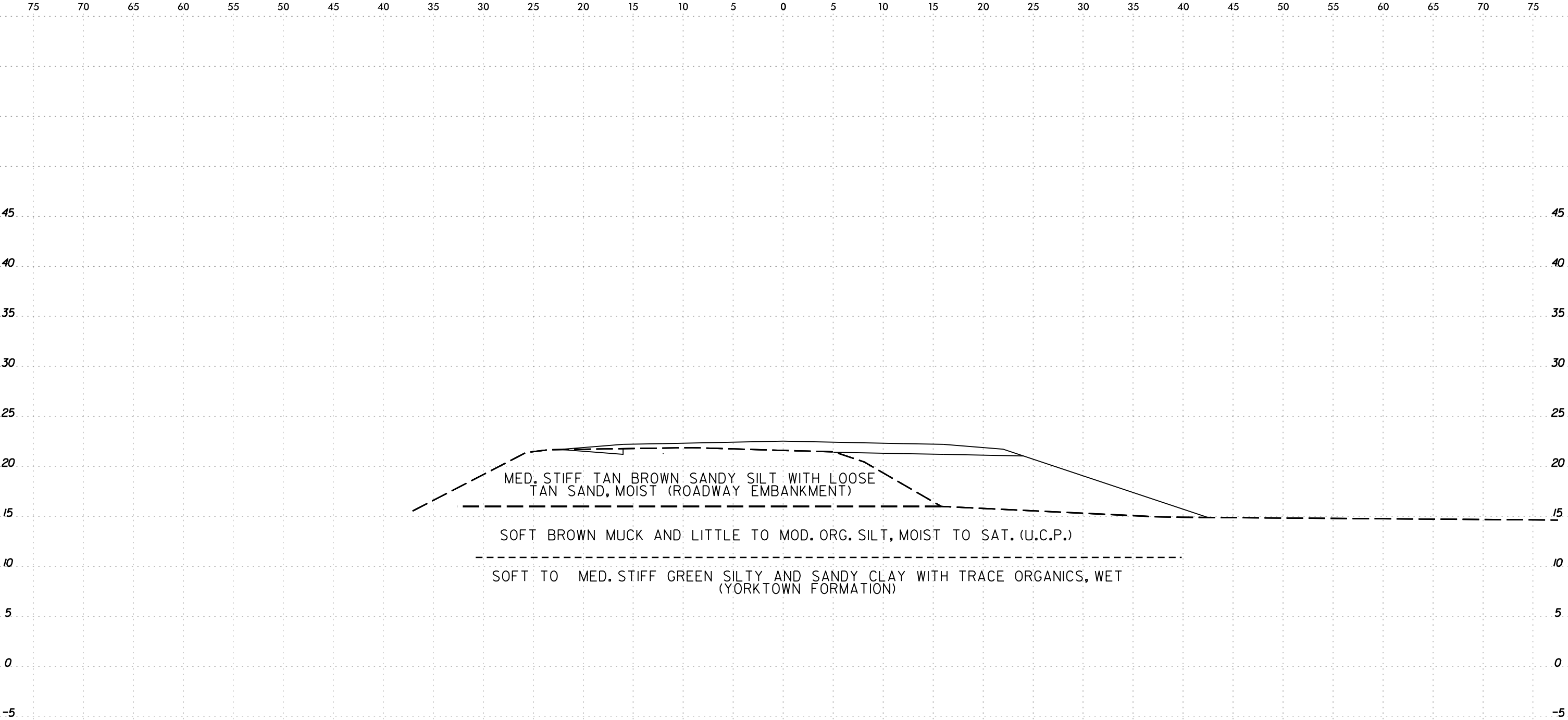
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
02.55	R-5808	421



6/23/16

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	422



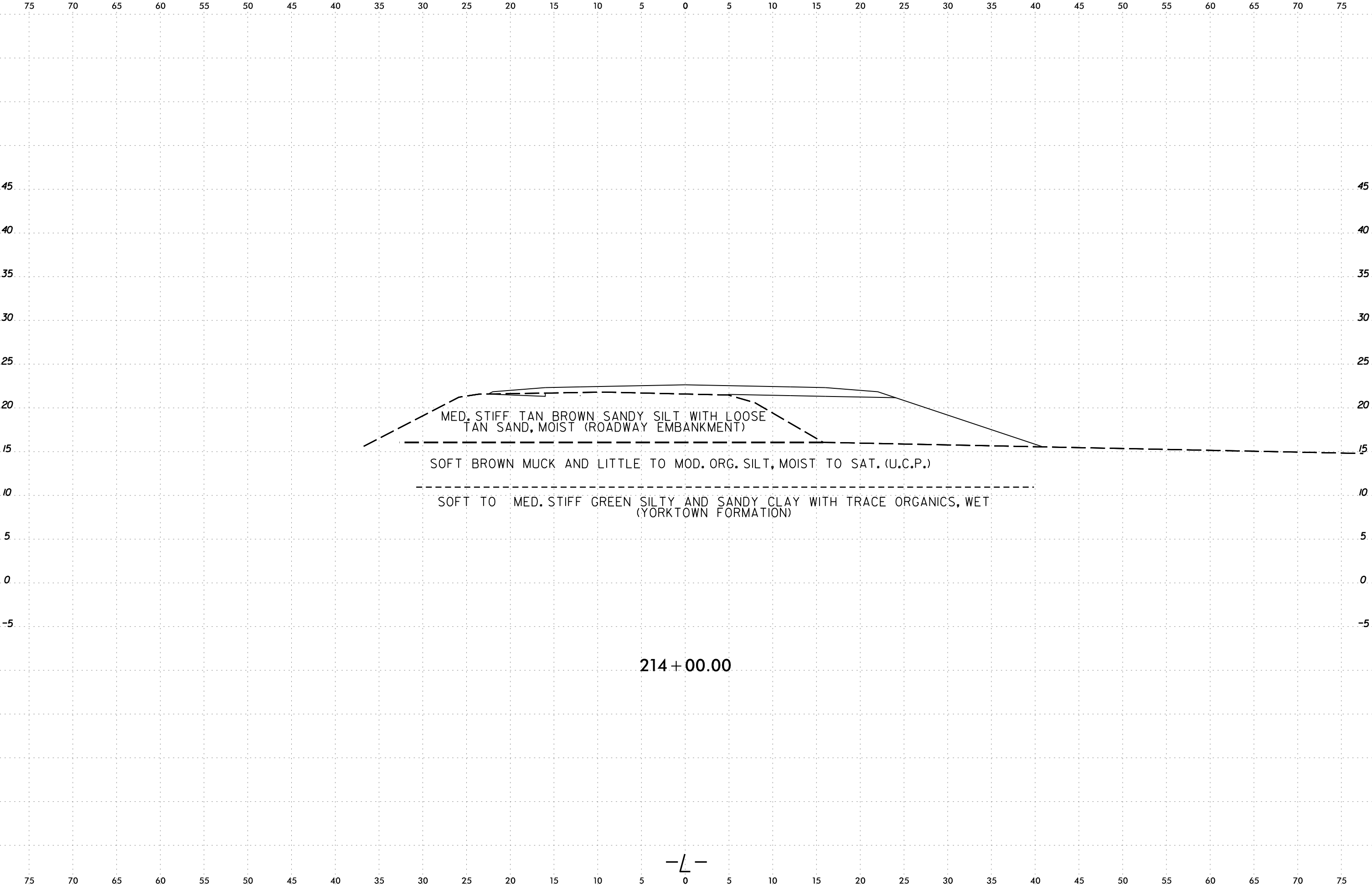
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Lee Stone AT LSTONE-CAD-PC

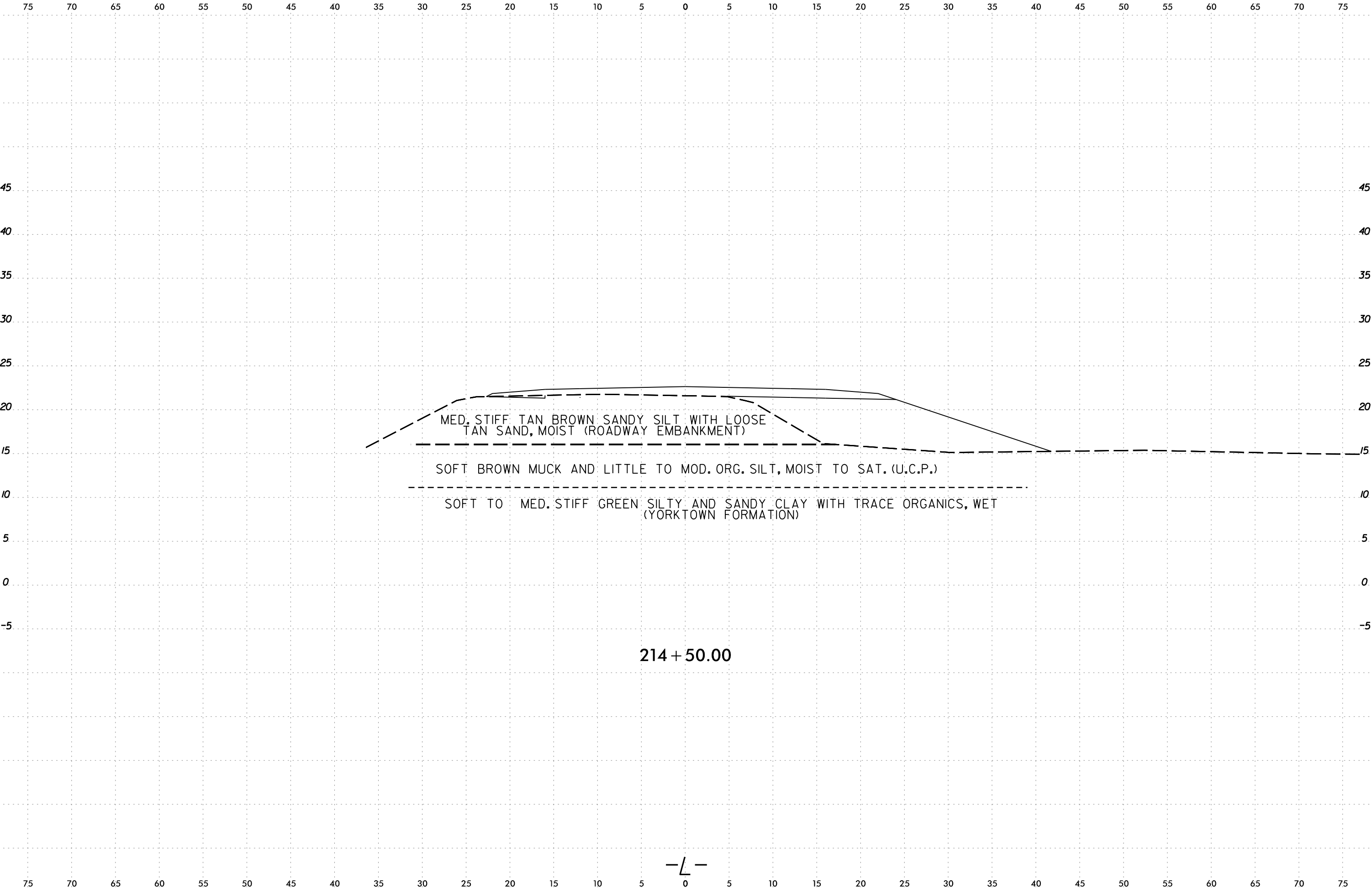
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	423



6/23/16

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Lee Stone AT LSTONE-CAD-PC

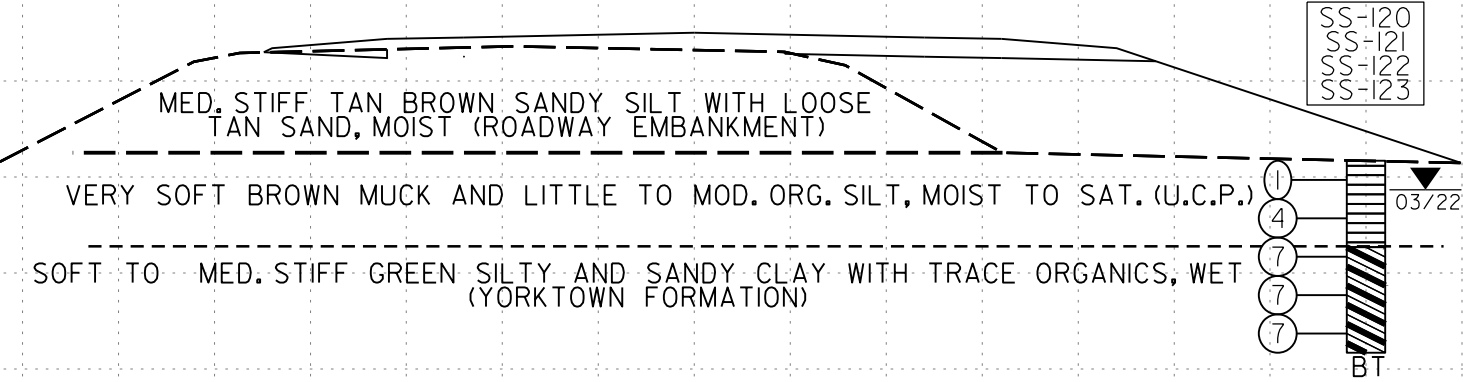
02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	424



6/23/16

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Lee Stone
10-JAN-2023 11:58

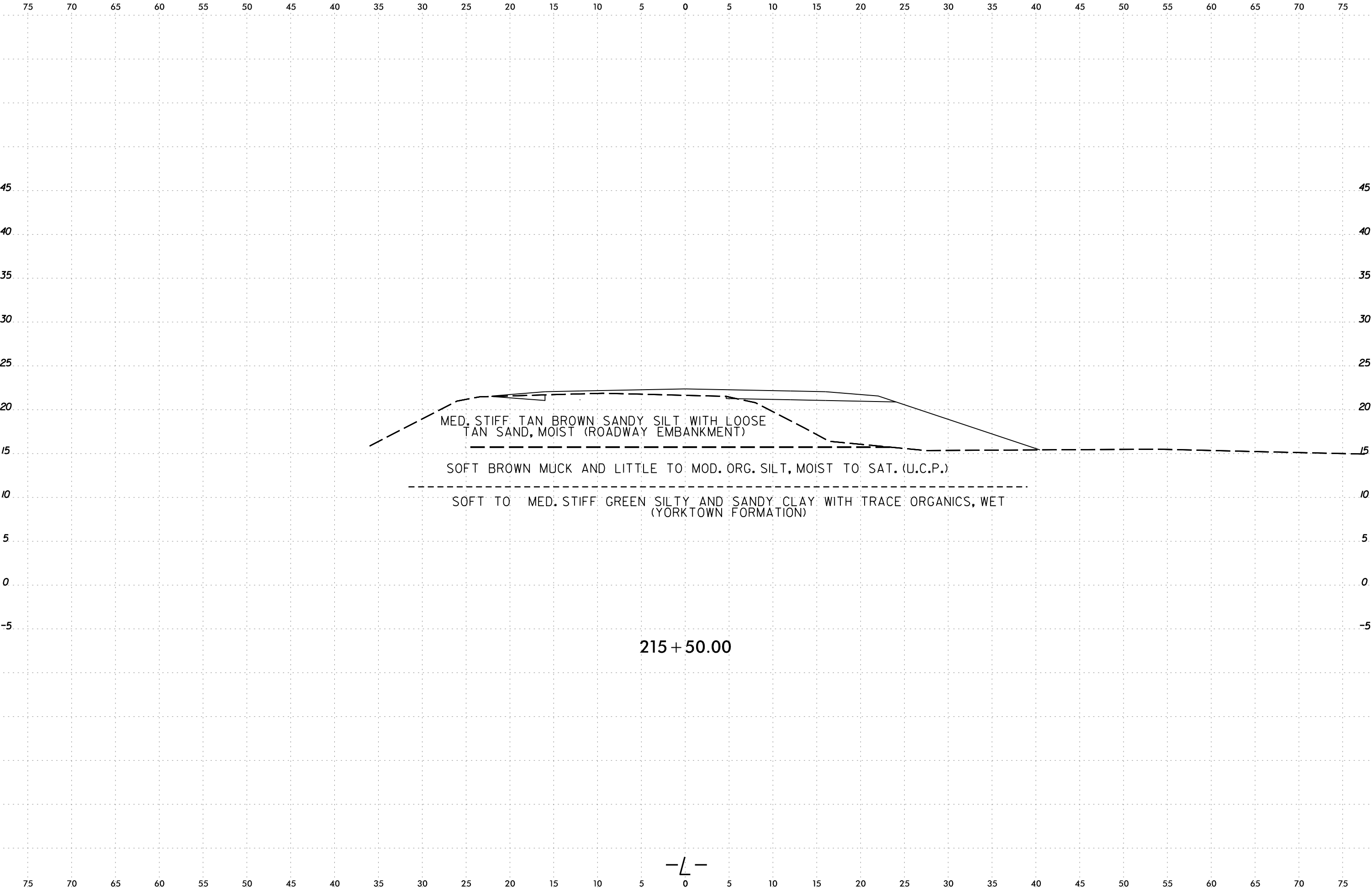
SOIL TEST RESULTS															
SAMPLE NUMBER	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-120	35 ft RT	215+00	0.0 - 2.0	A-4(5)	33	4	3.4	10.5	59.8	26.4	99.8	98	93	-	10.1
SS-121	35 ft RT	215+00	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	-	-



6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	426

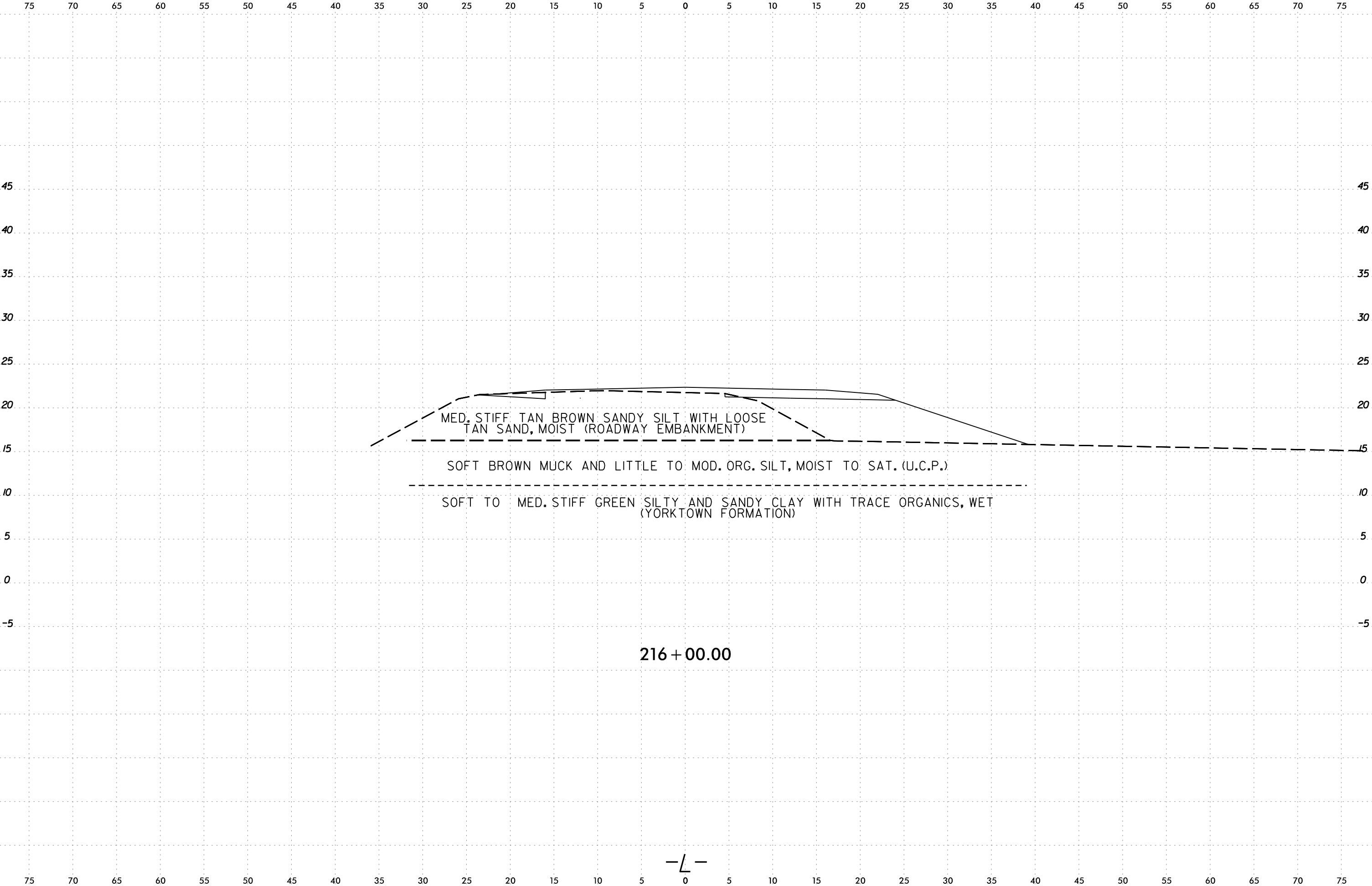


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Lee Stone AT LSTONE-CAD-PC

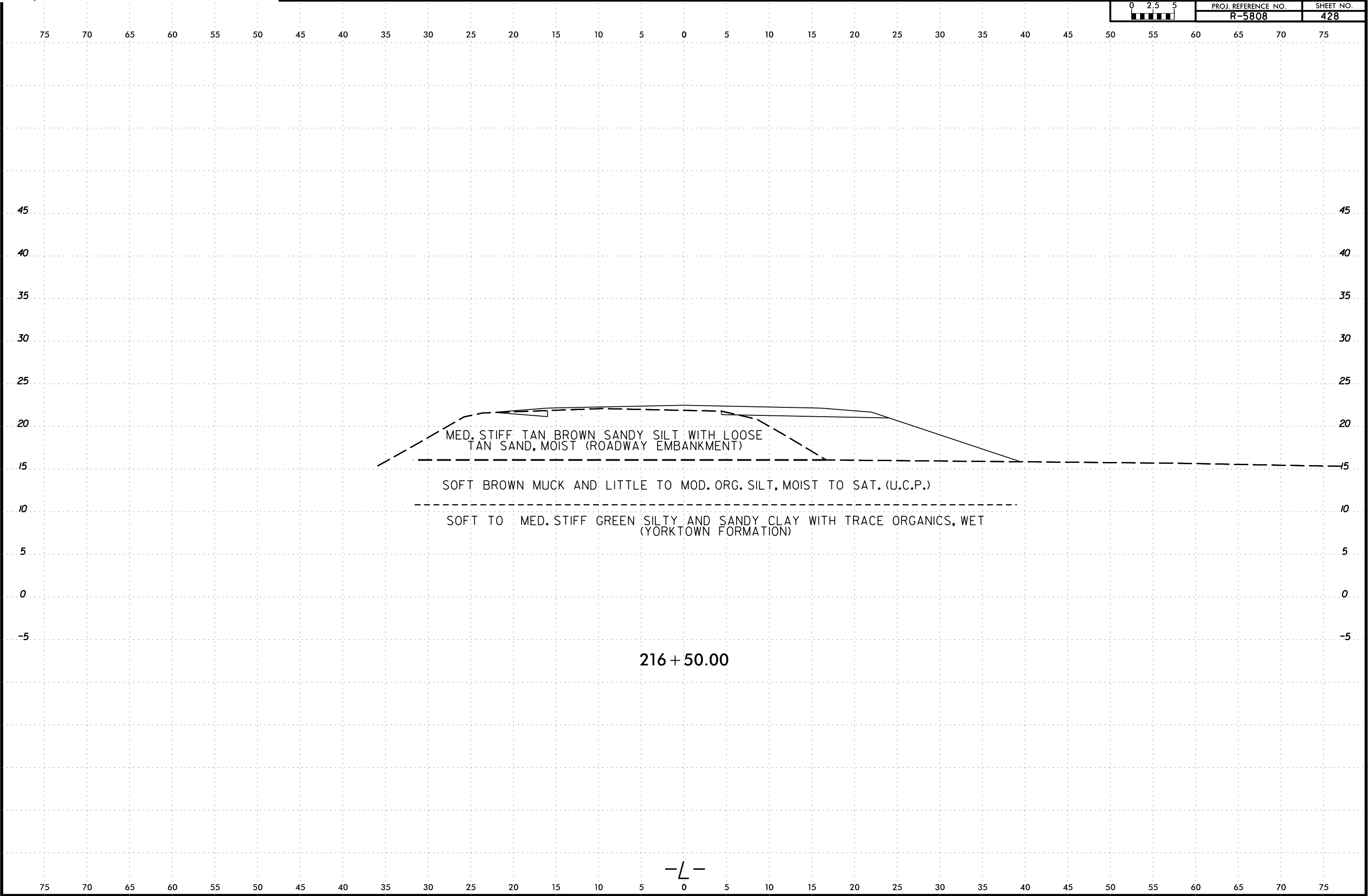
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	427



6/23/16

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Lee Stone AT LSTONE-CAD-PC

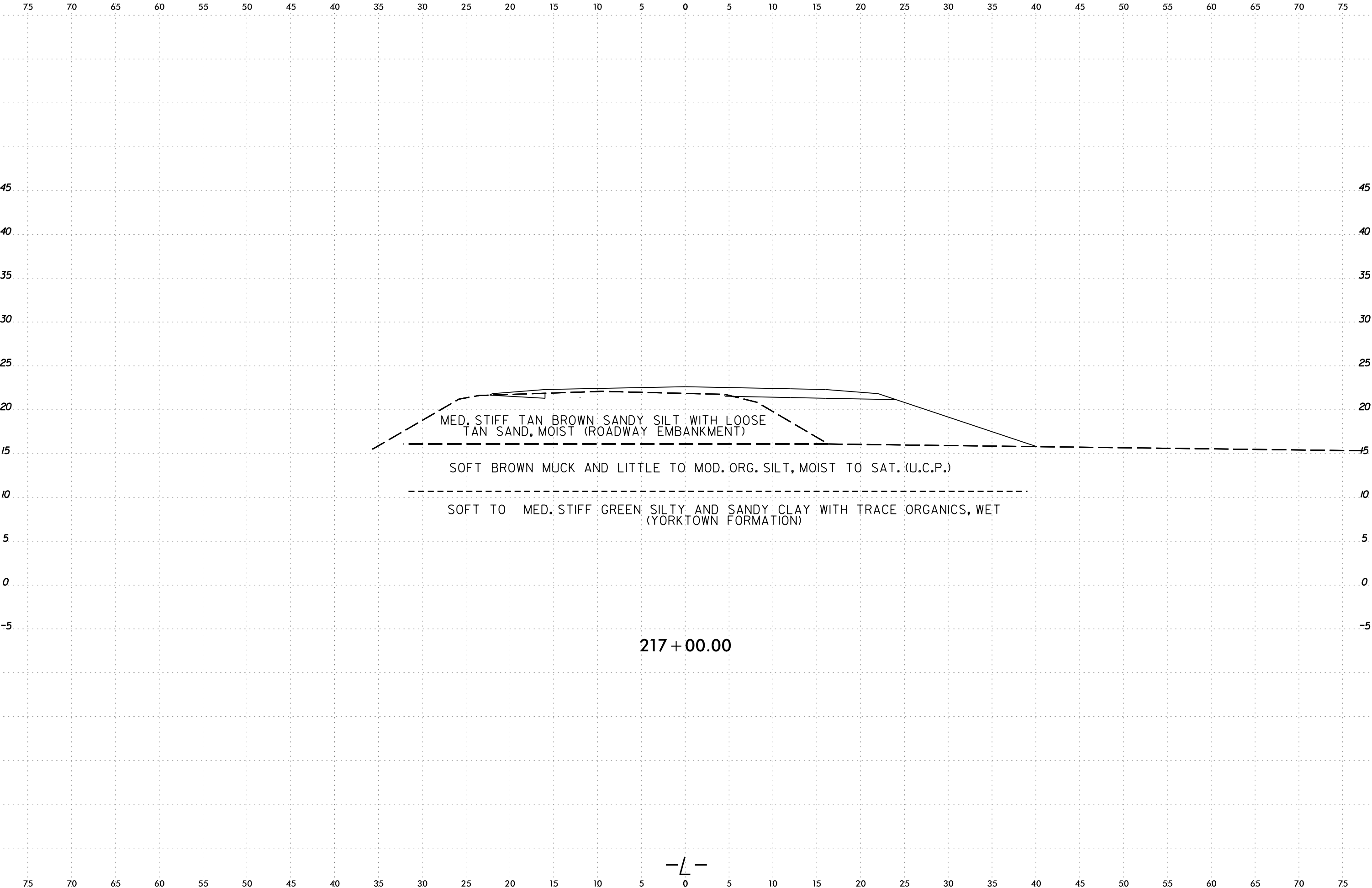
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	R-5808	428



6/23/16

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Lee Stone AT LSTONE-CAD-PC

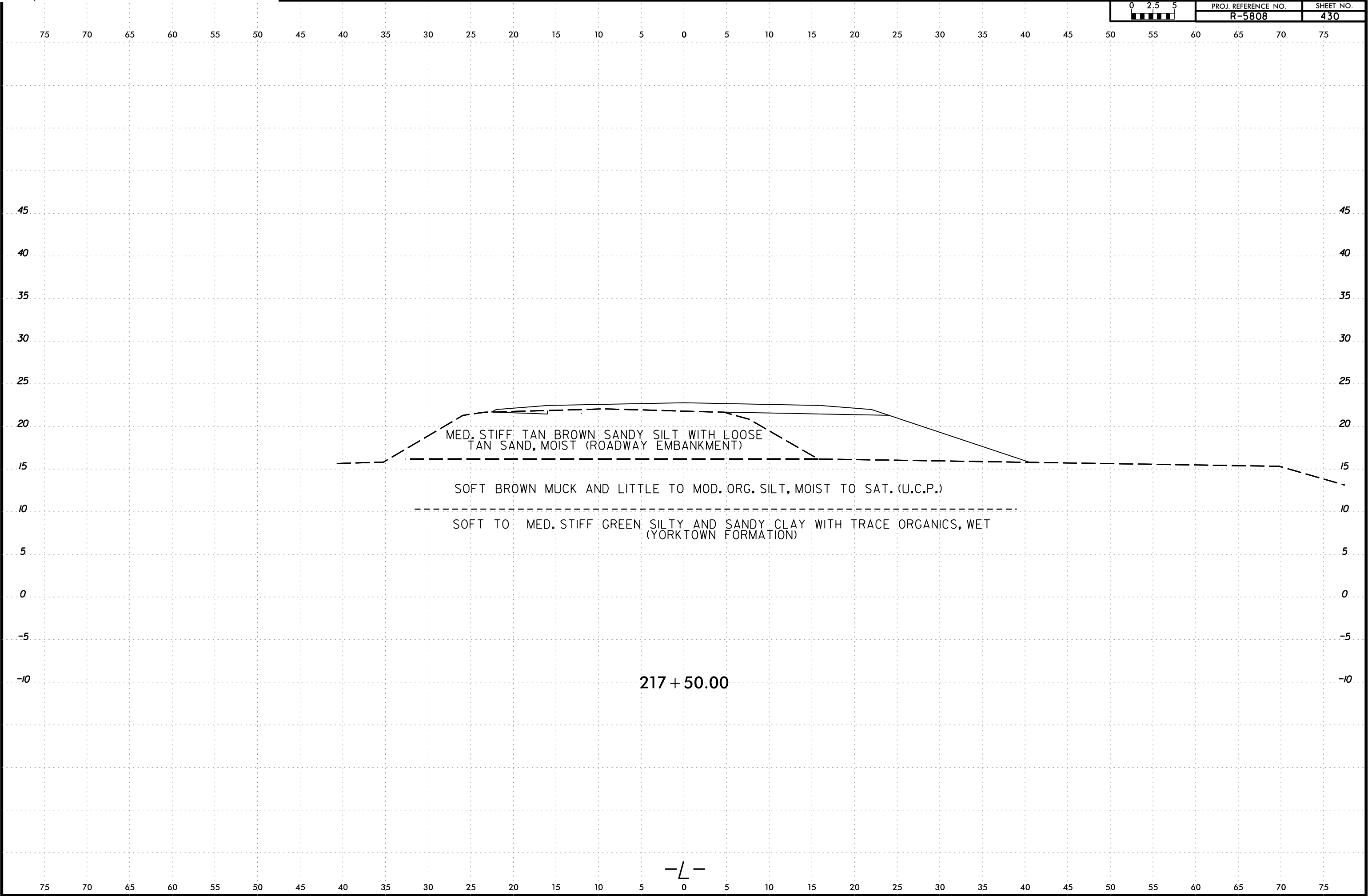
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	R-5808	429



6/23/16

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Lee Stone AT LSTONE-CAD-PC

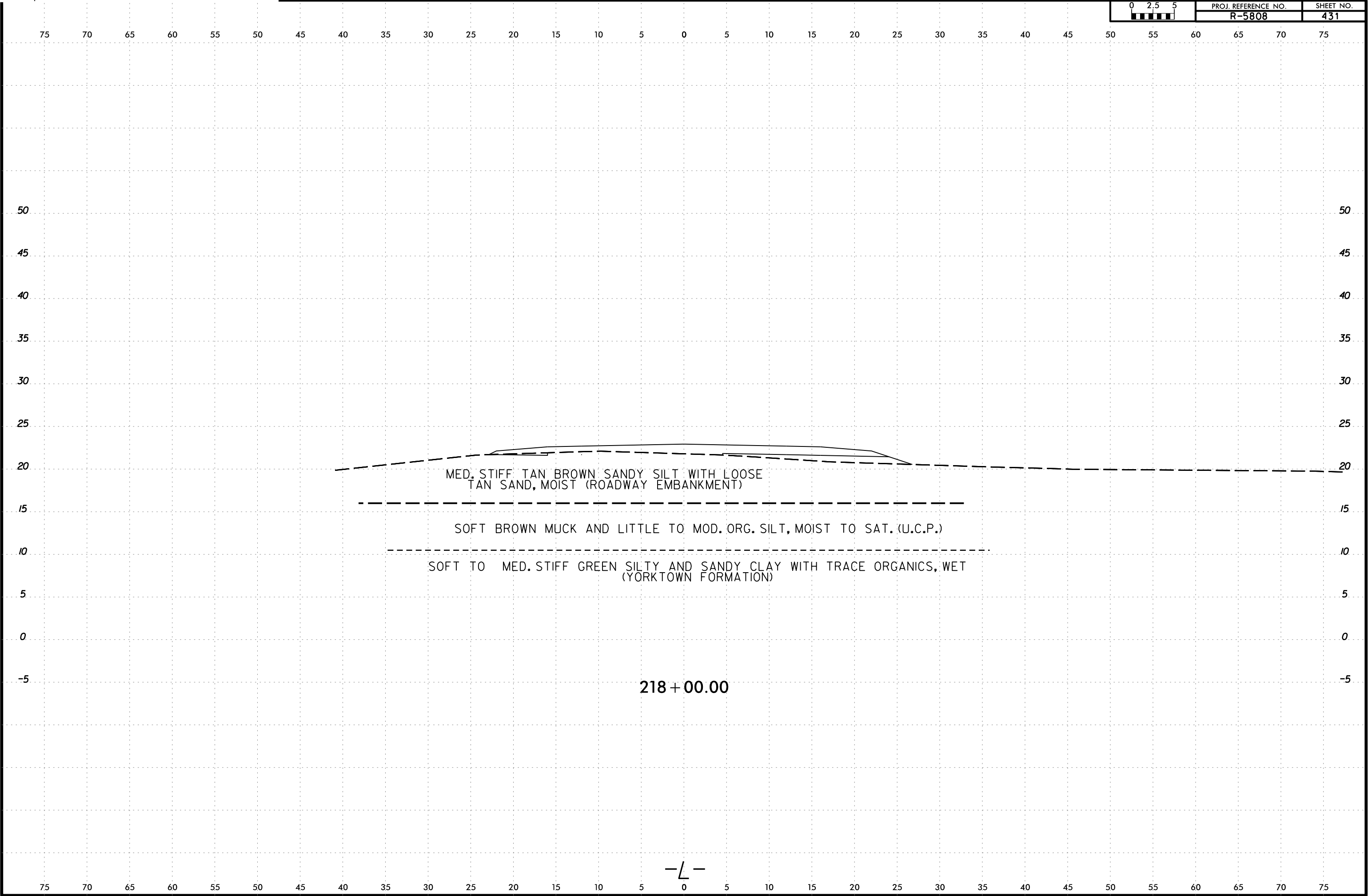
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	R-5808	430



6/23/16

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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
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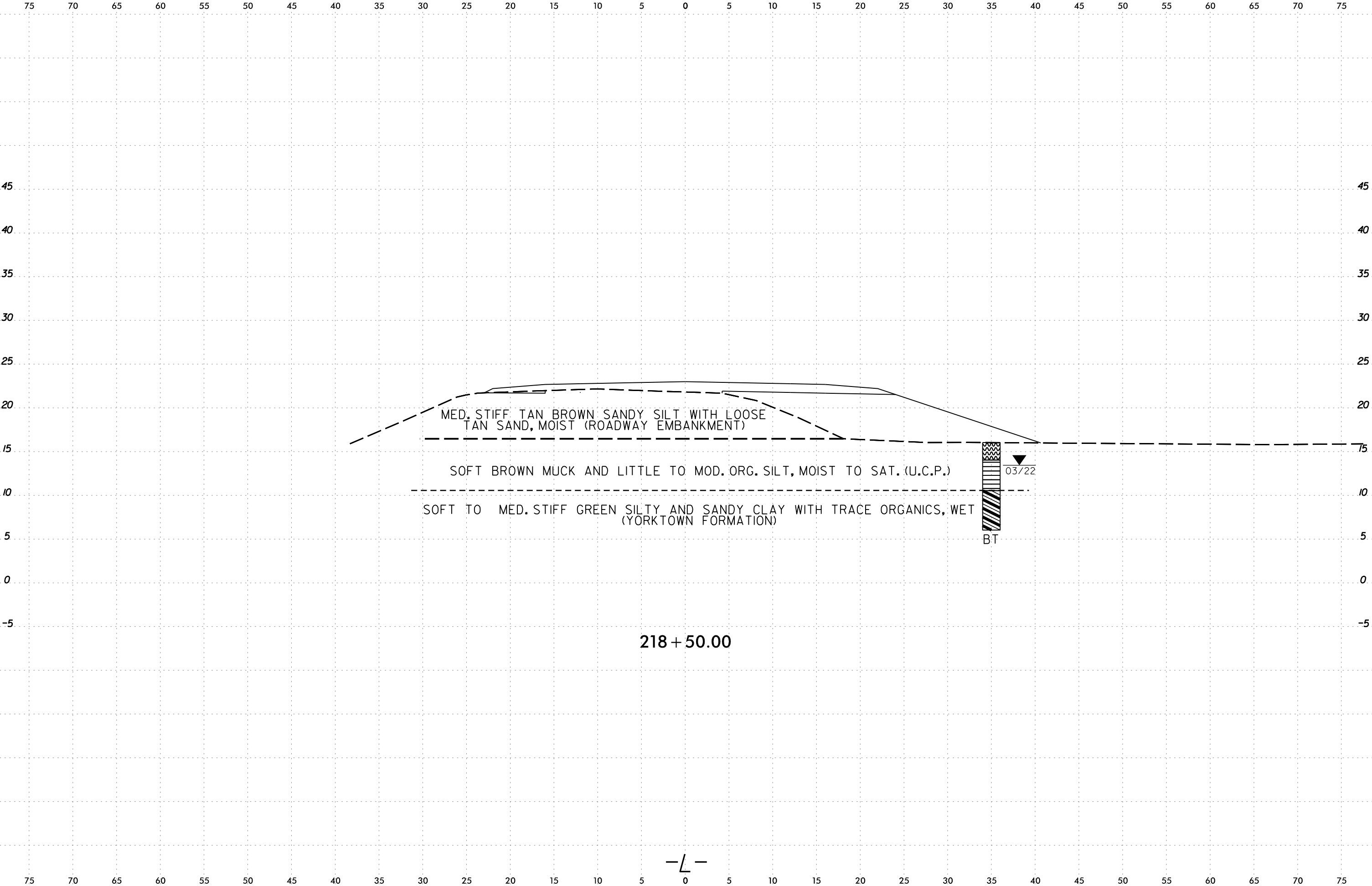


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Lee Stone AT LSTONE-CAD-PC

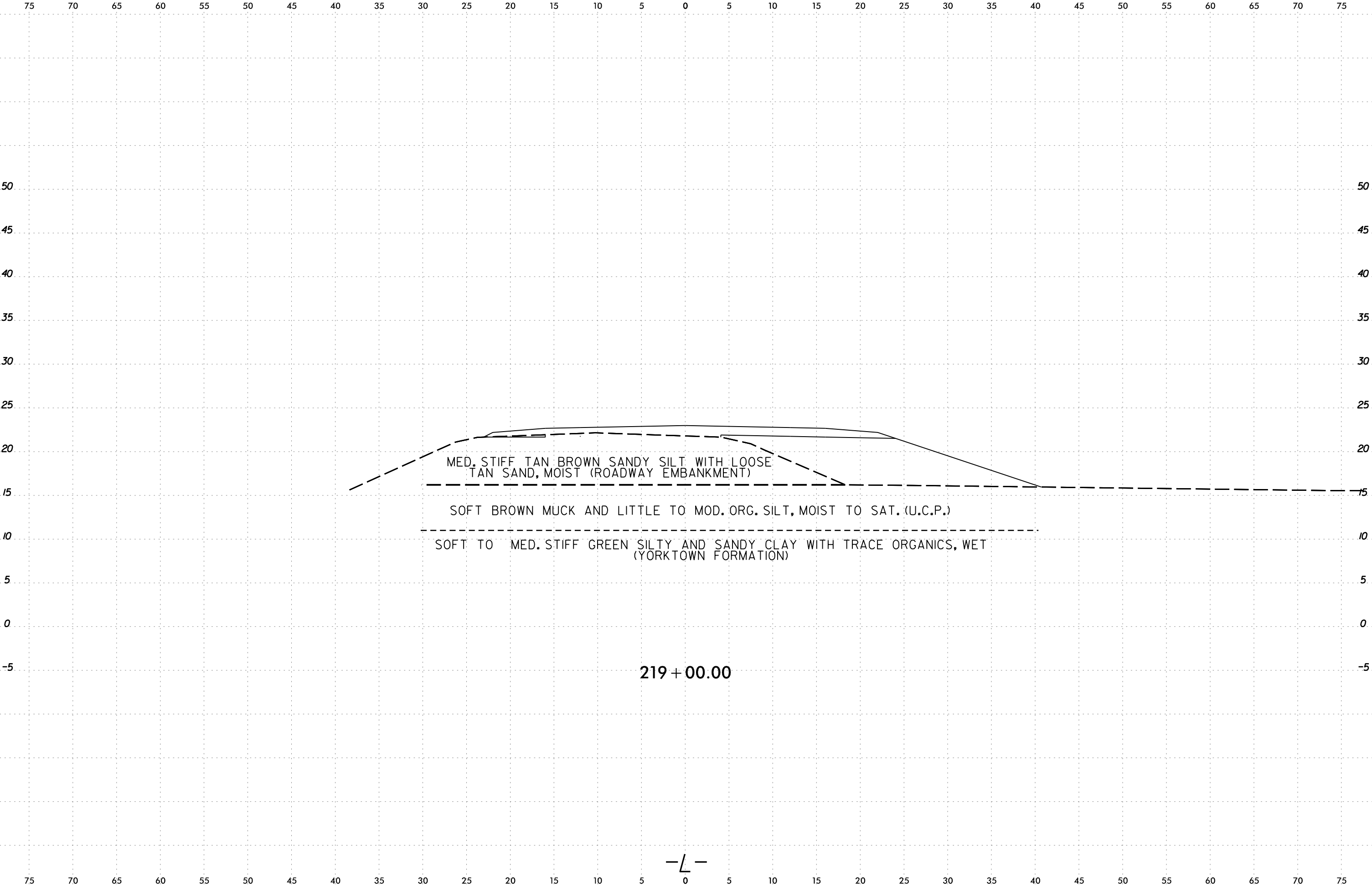
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Lee Stone AT LSTONE-CAD-PC

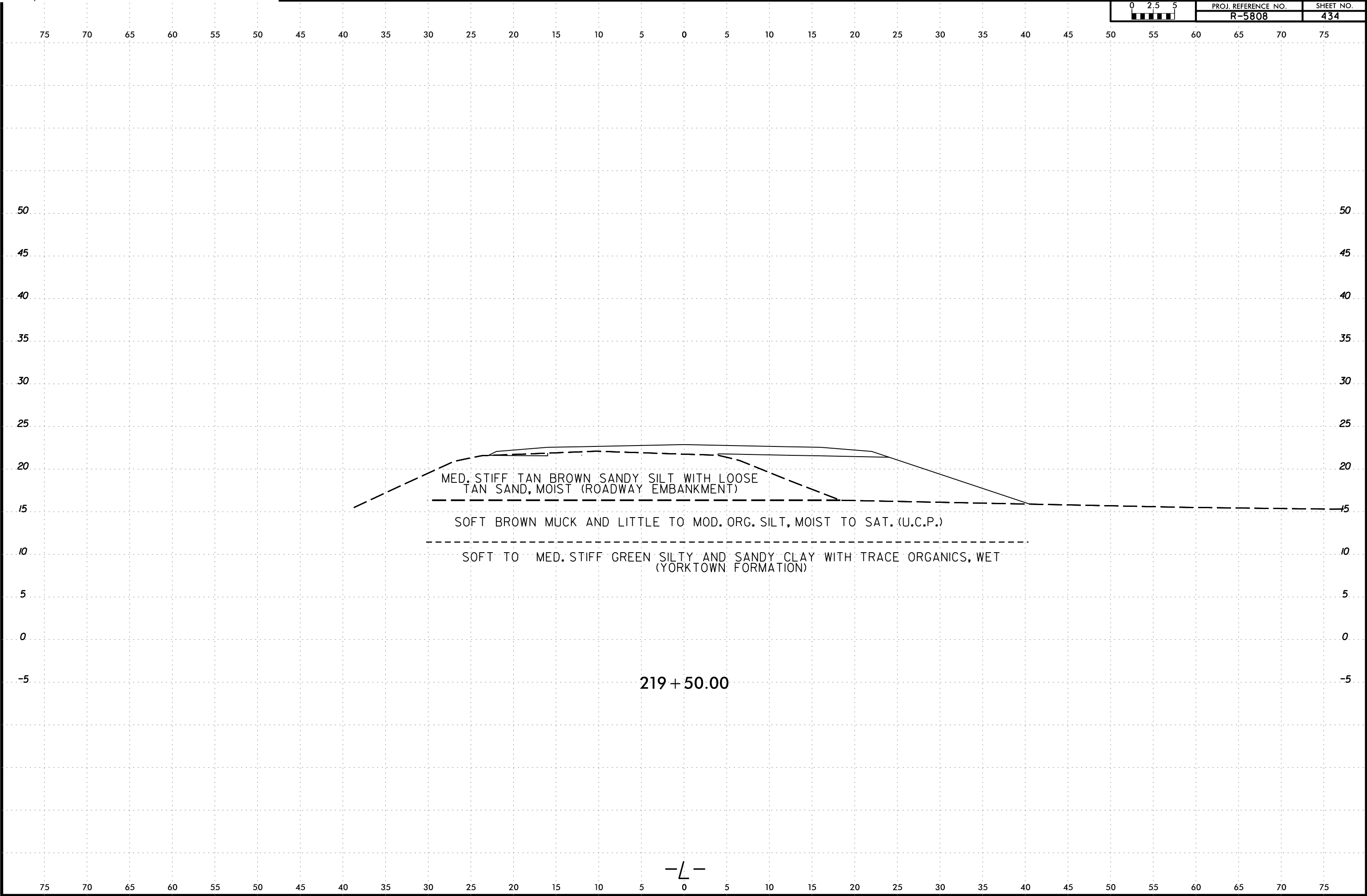
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	R-5808	433



6/23/16

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Lee Stone AT LSTONE-CAD-PC

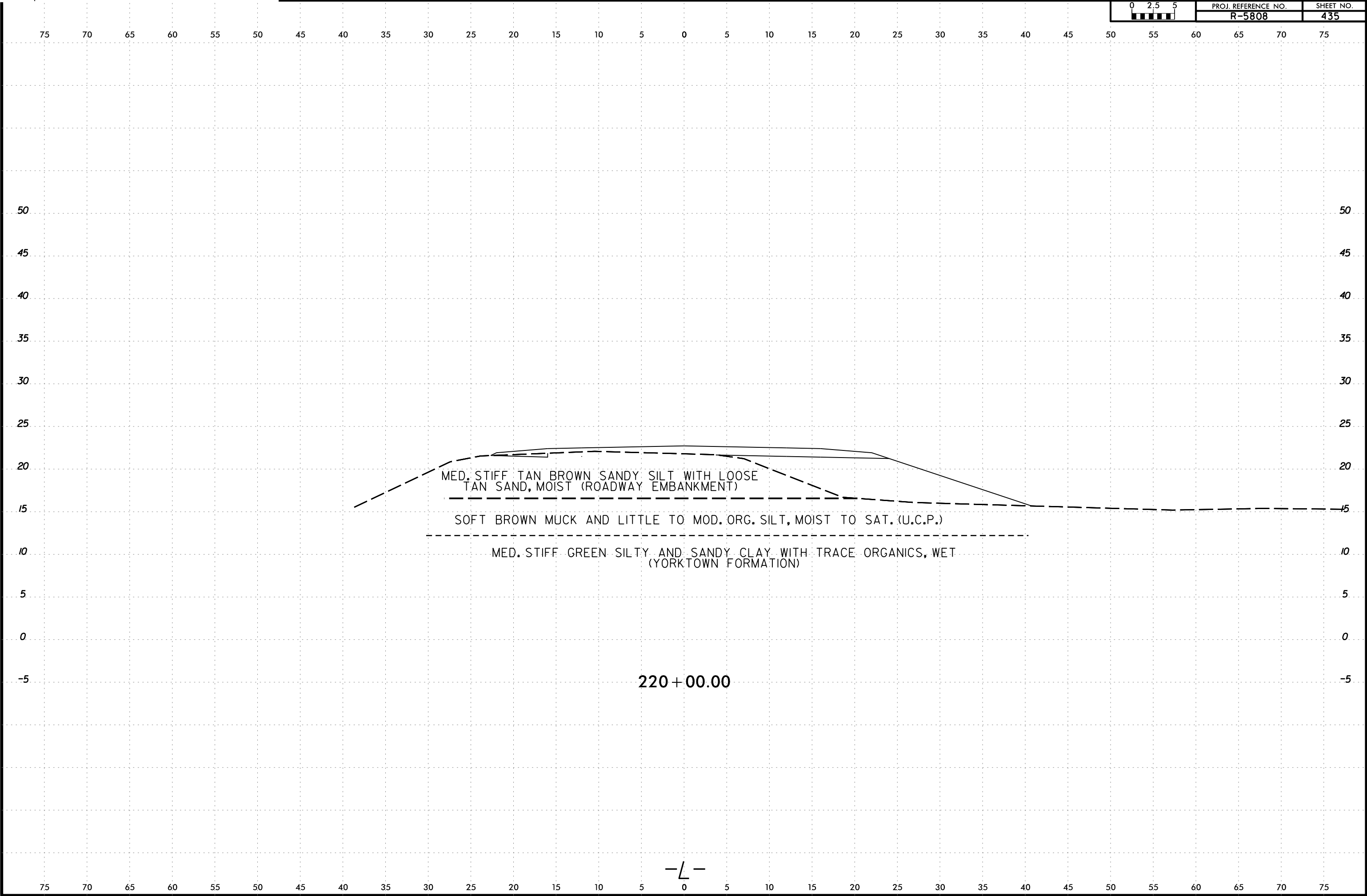
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	R-5808	434



6/23/16

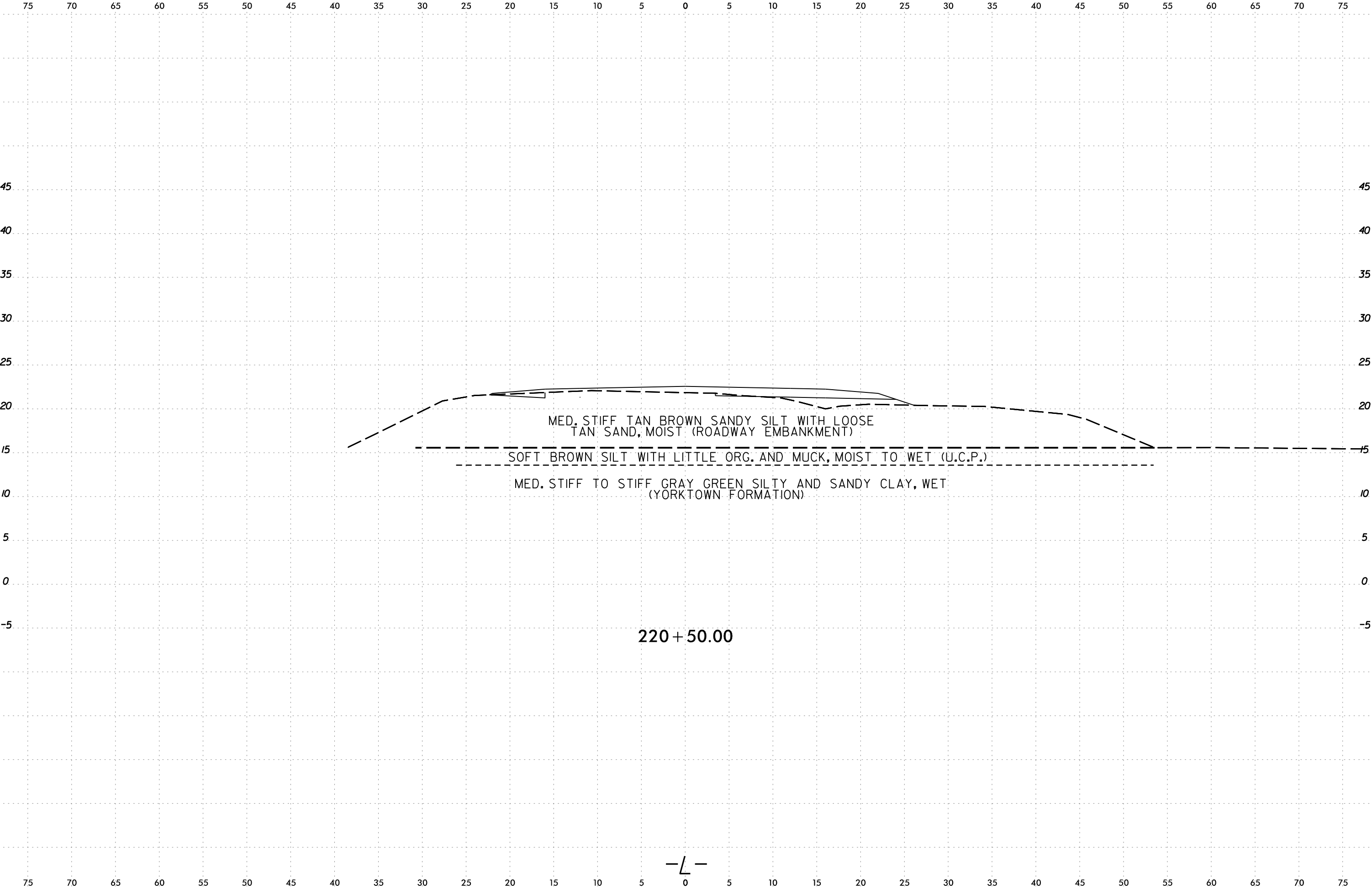
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Lee Stone AT LSTONE-CAD-PC

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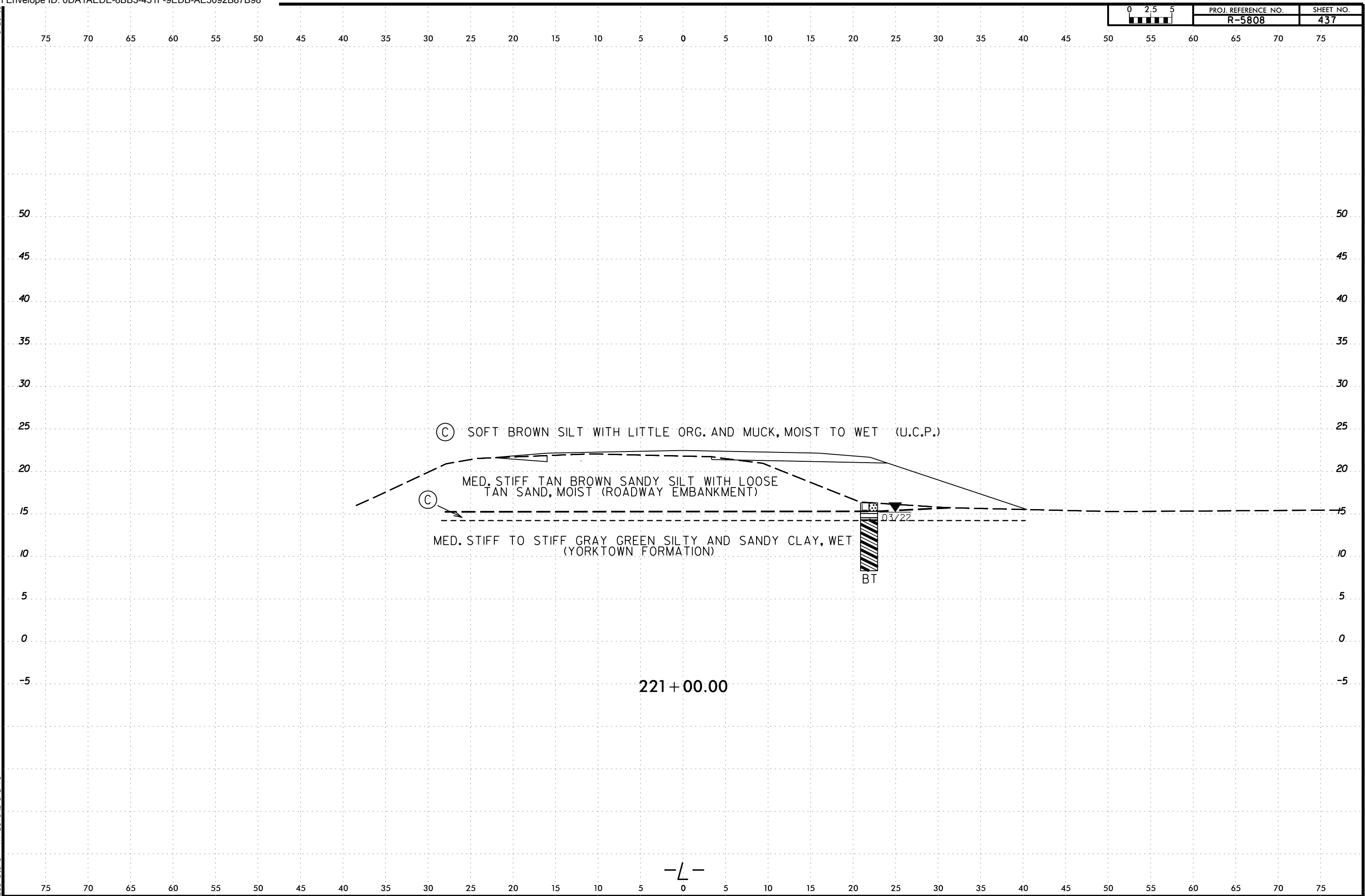


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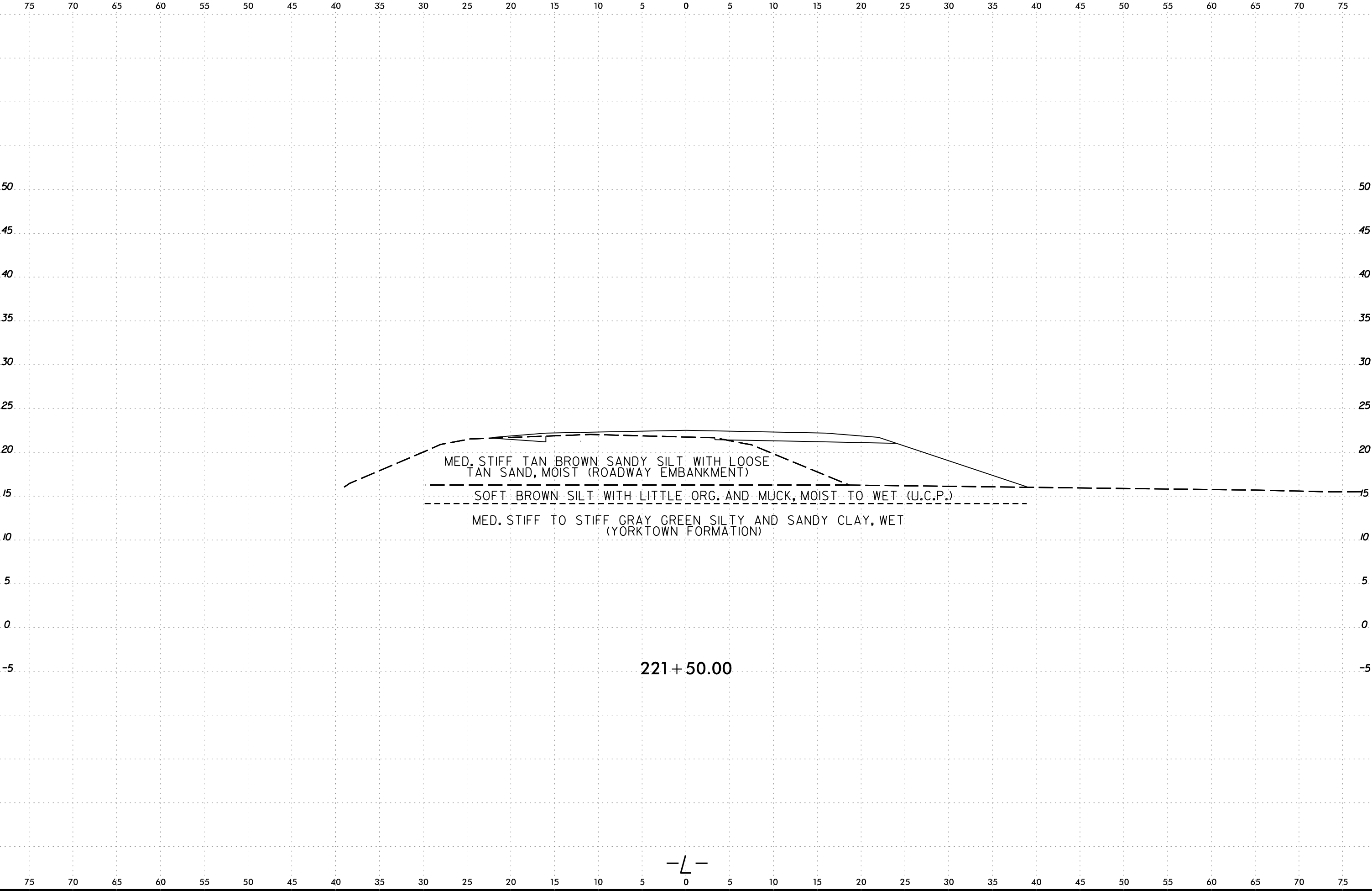
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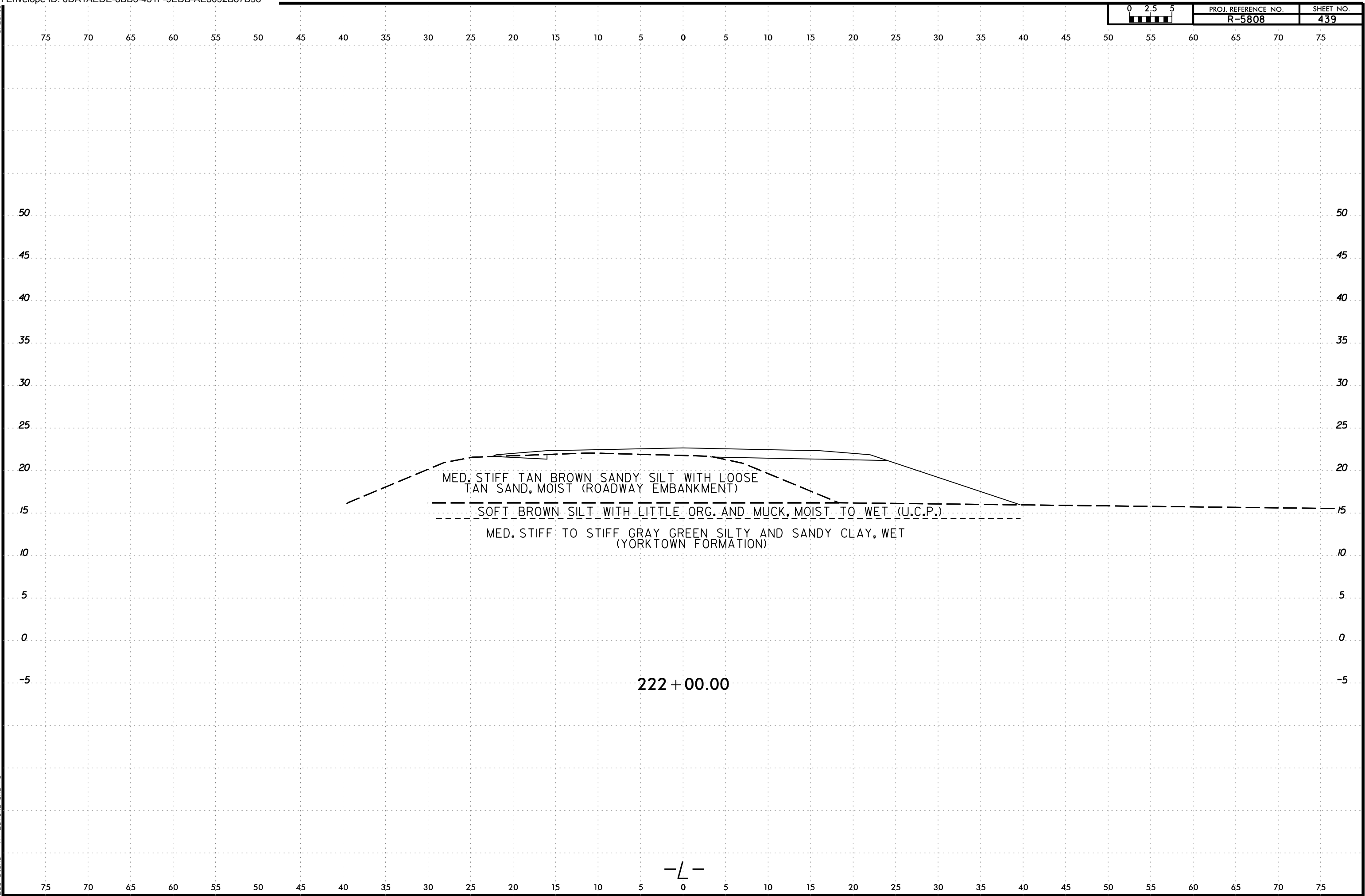


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Lee Stone AT LSTONE-CAD-PC

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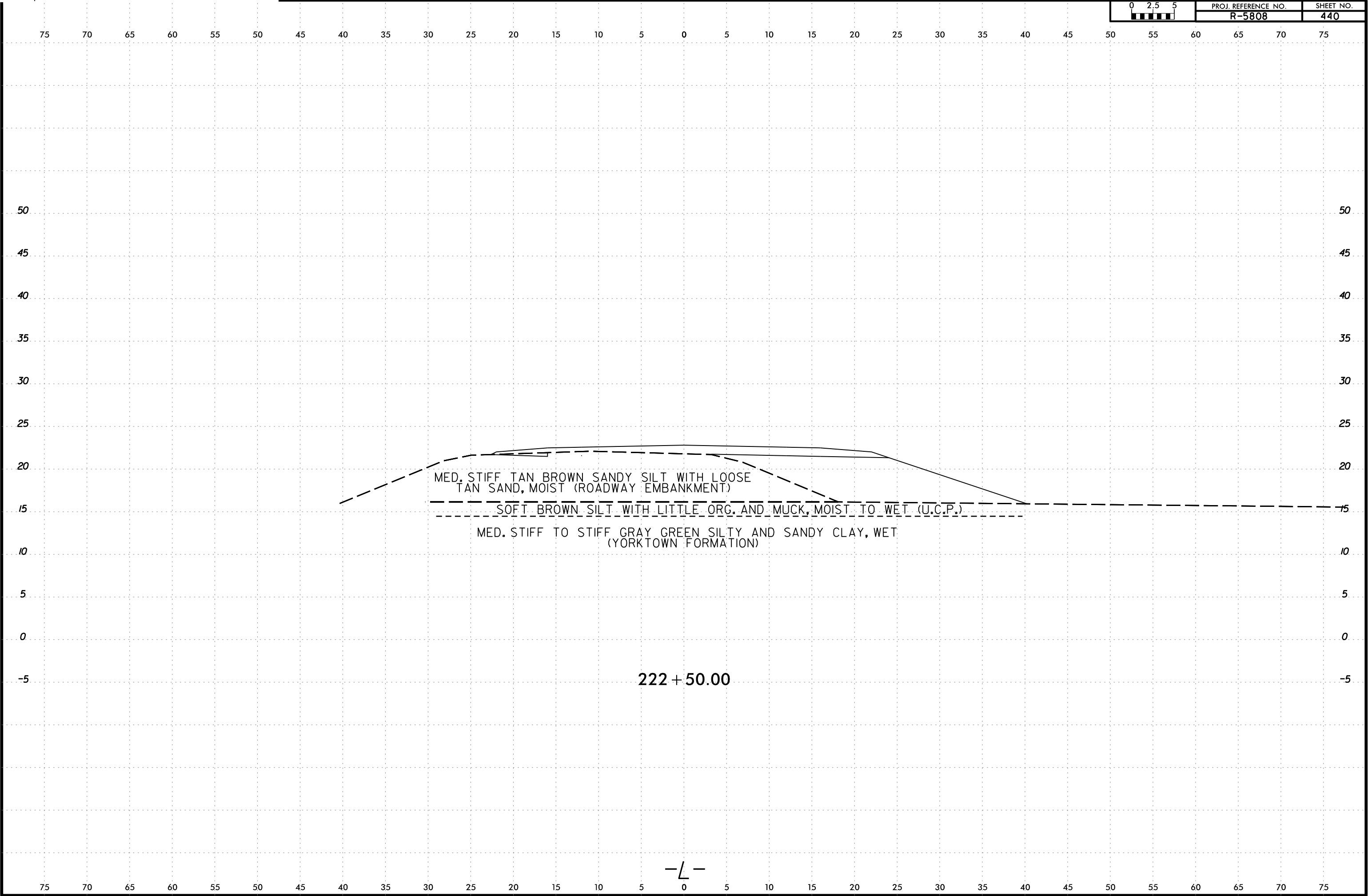




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Lee Stone AT LSTONE-CAD-PC

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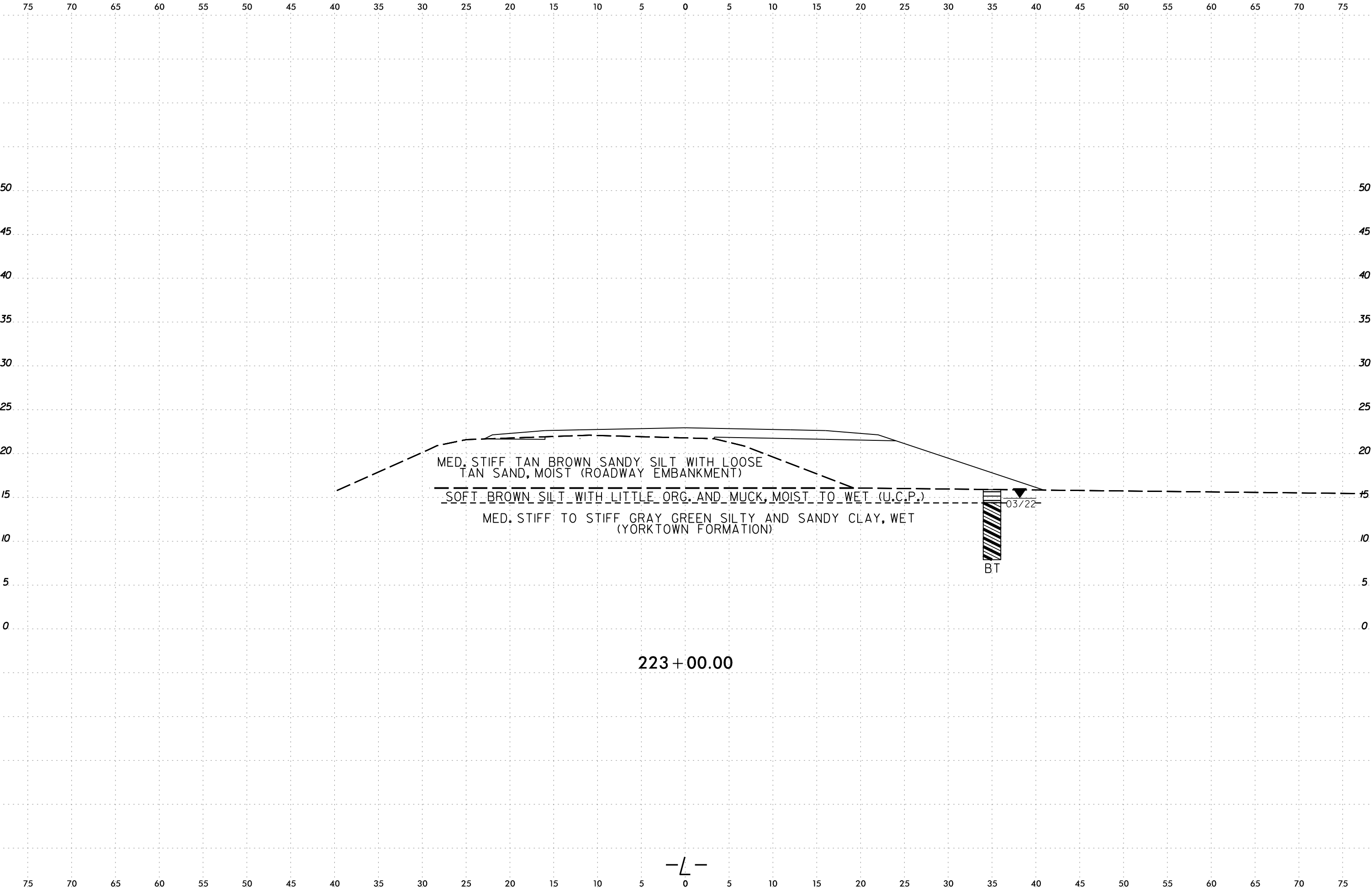


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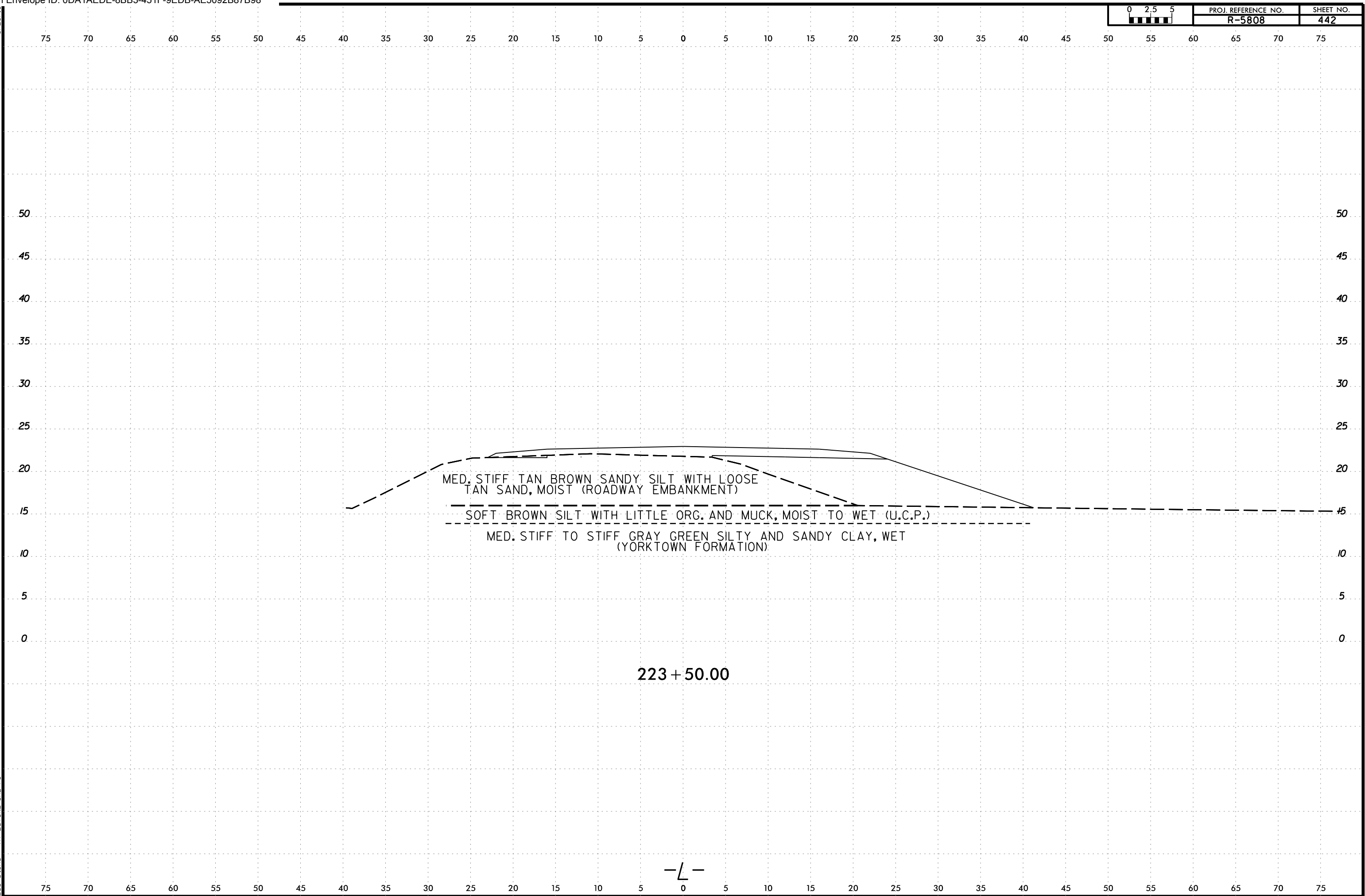
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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
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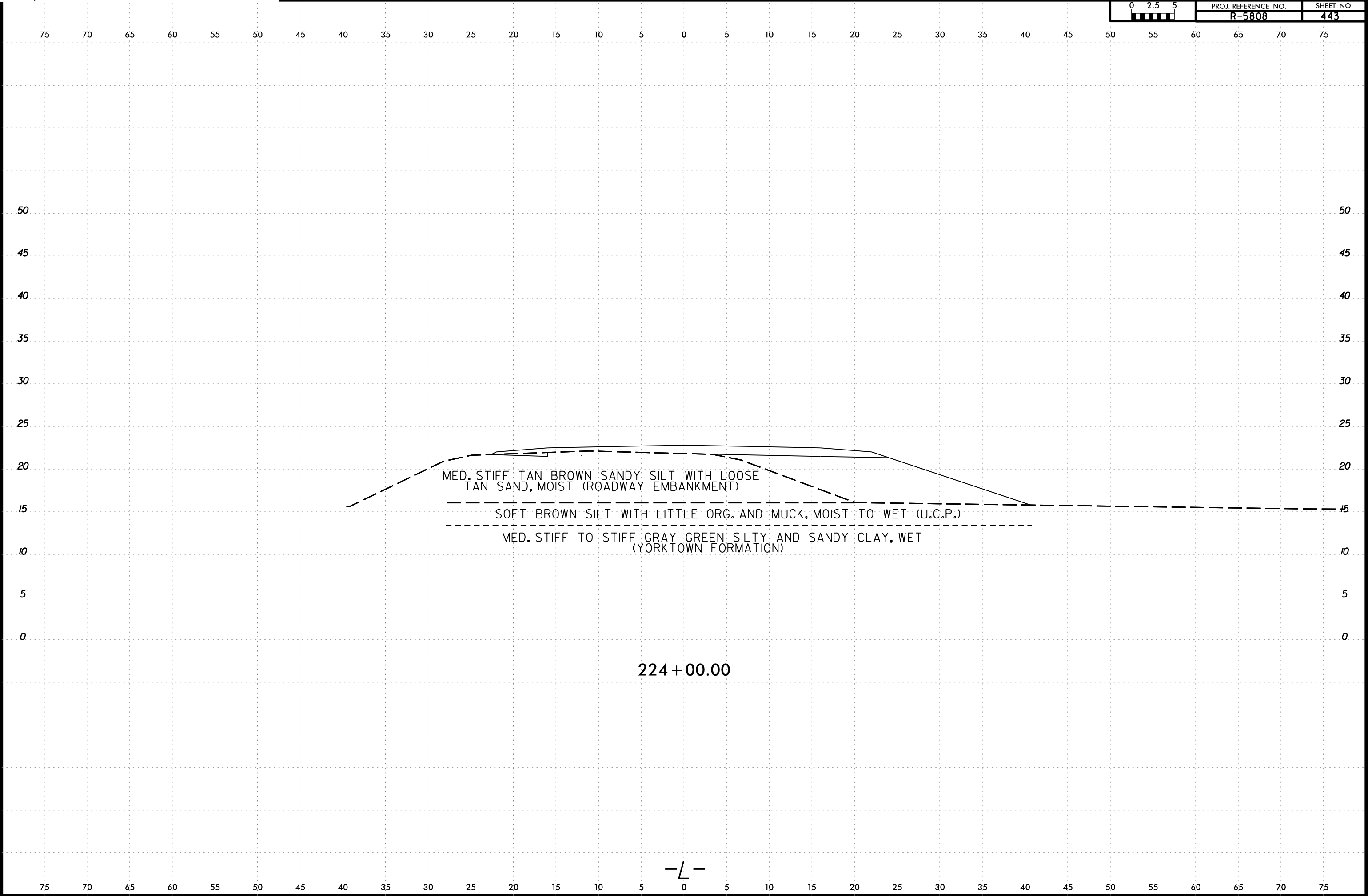
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Lee Stone AT LSTONE-CAD-PC

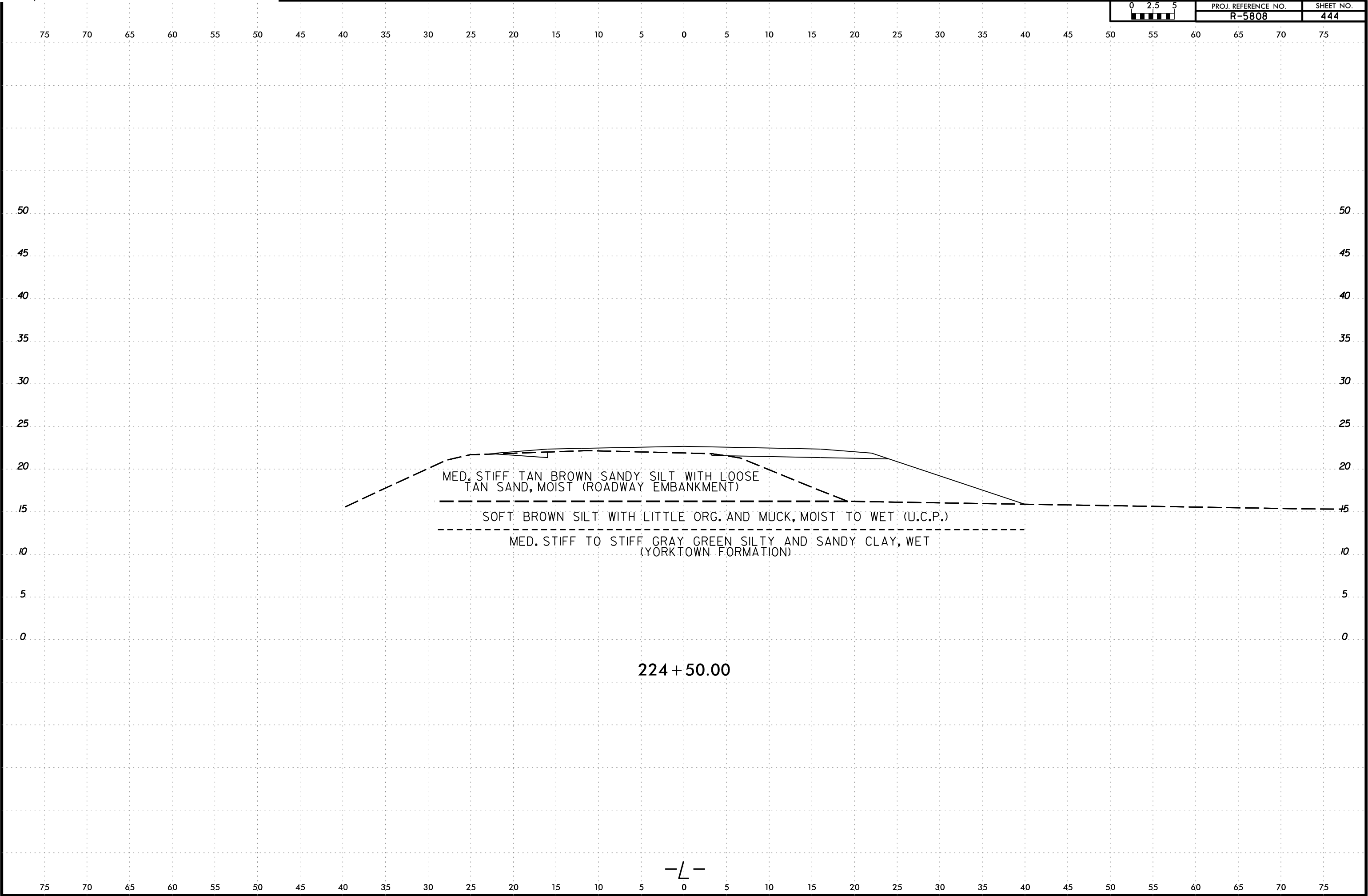
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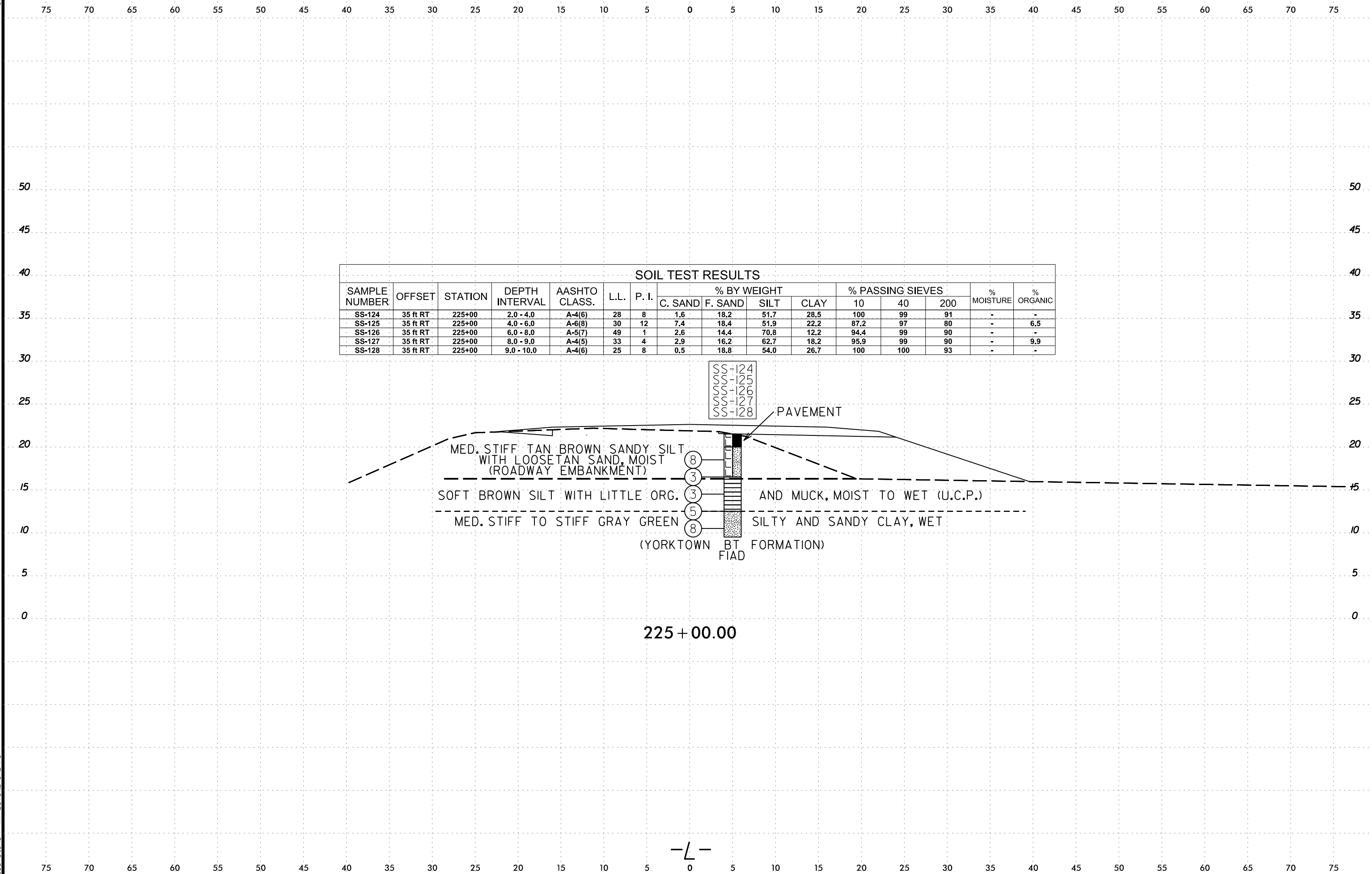


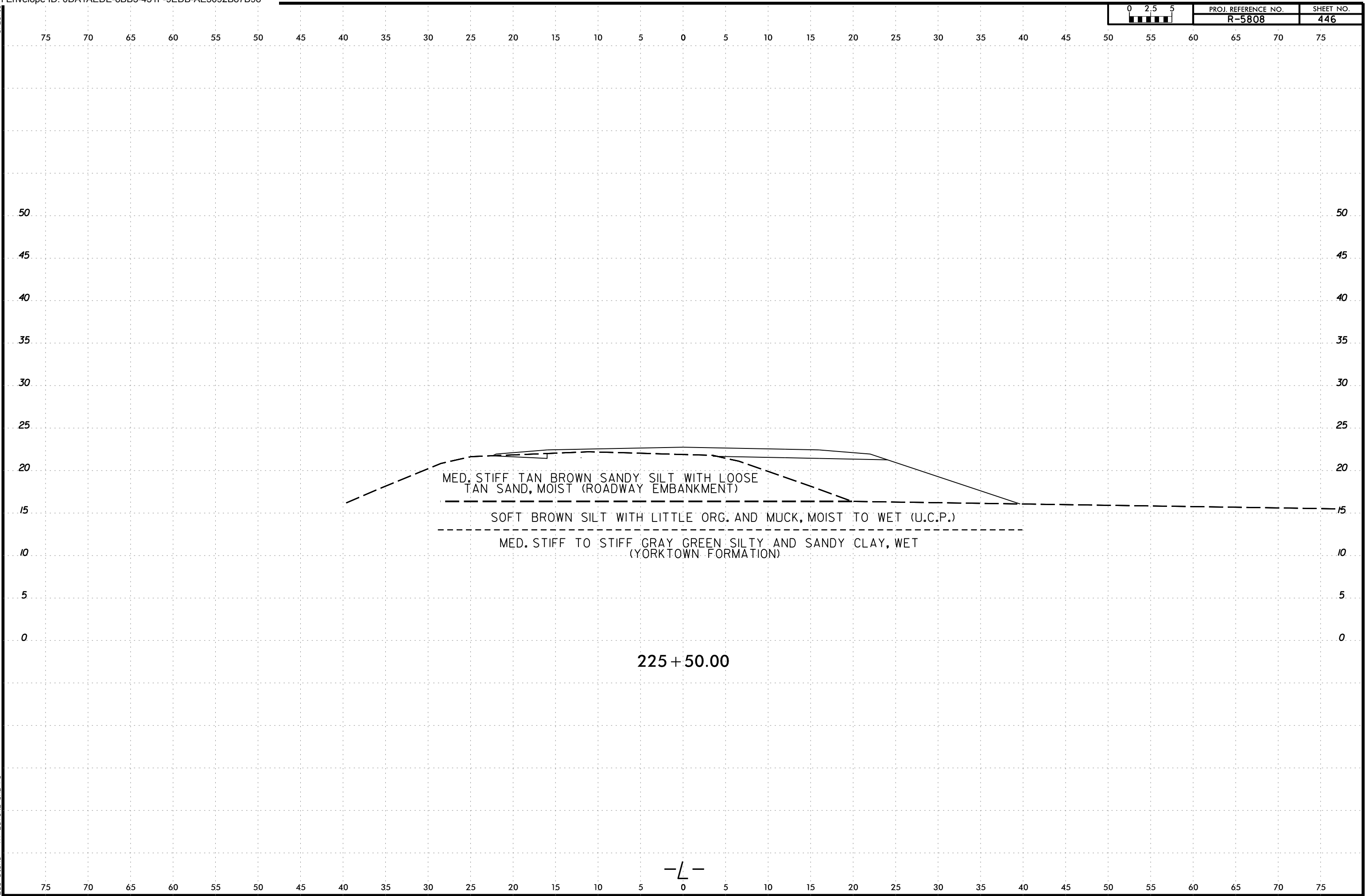
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Lee Stone AT LSTONE-CAD-PC

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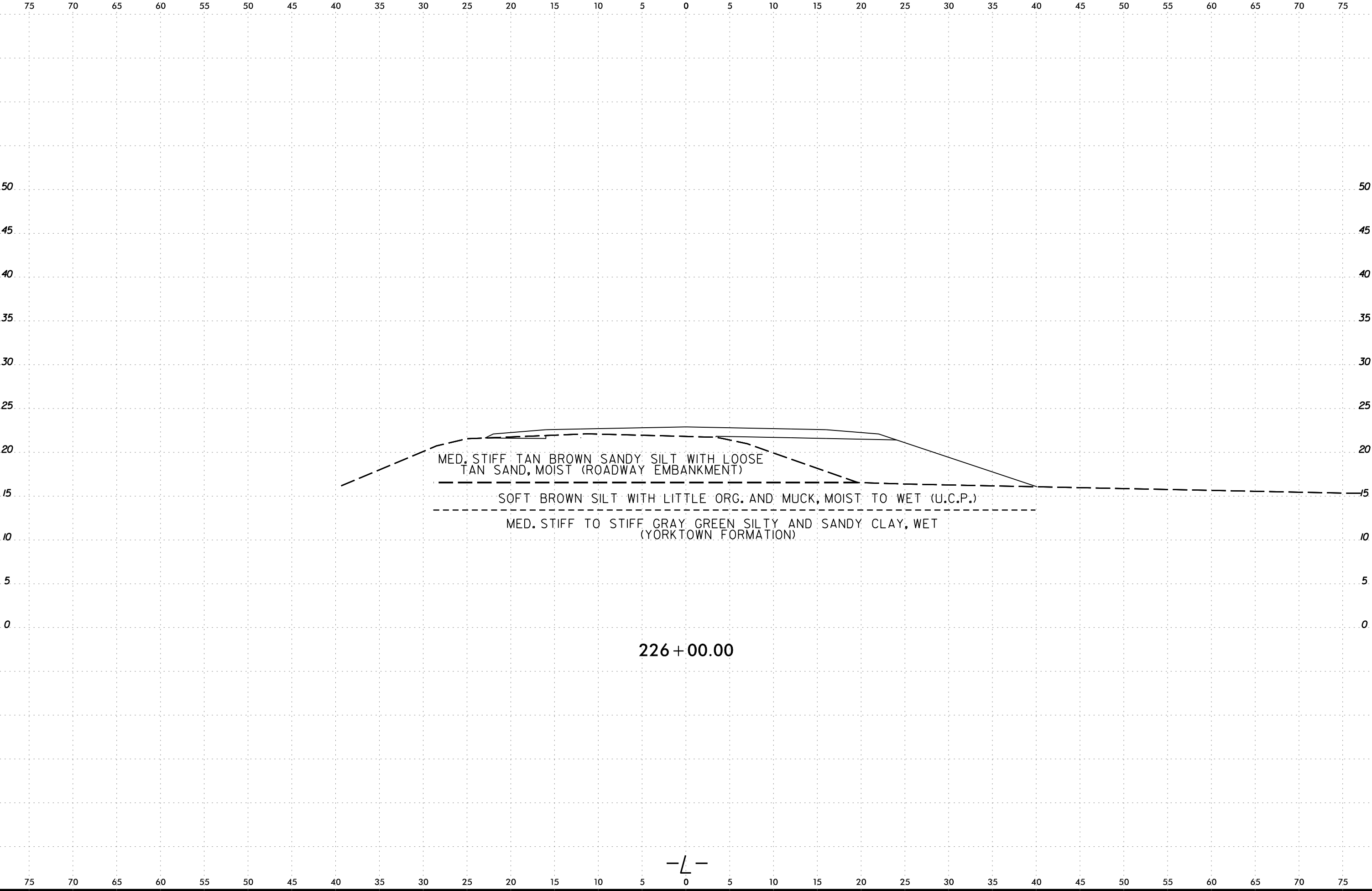




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Lee Stone AT LSTONE-CAD-PC

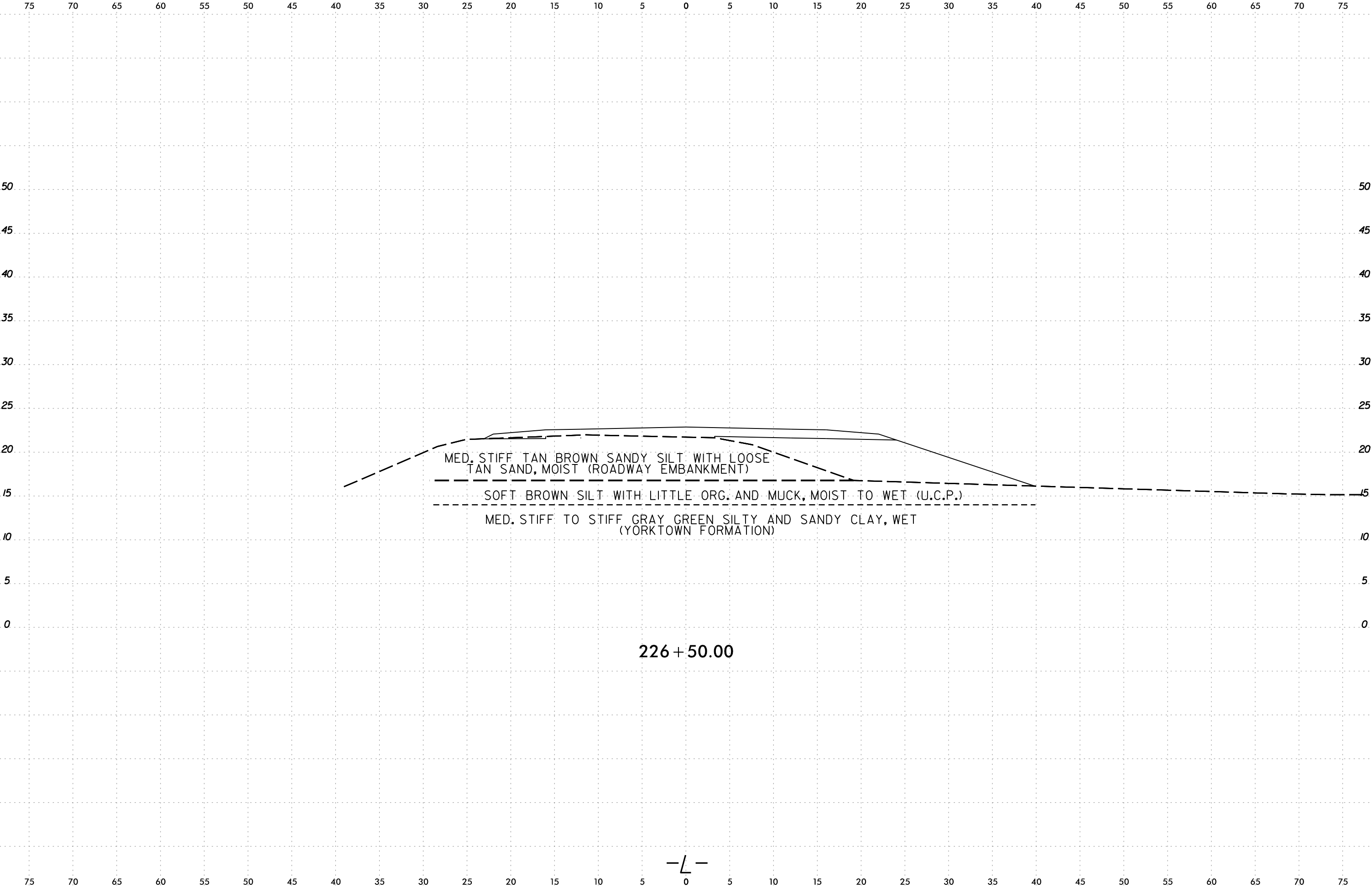
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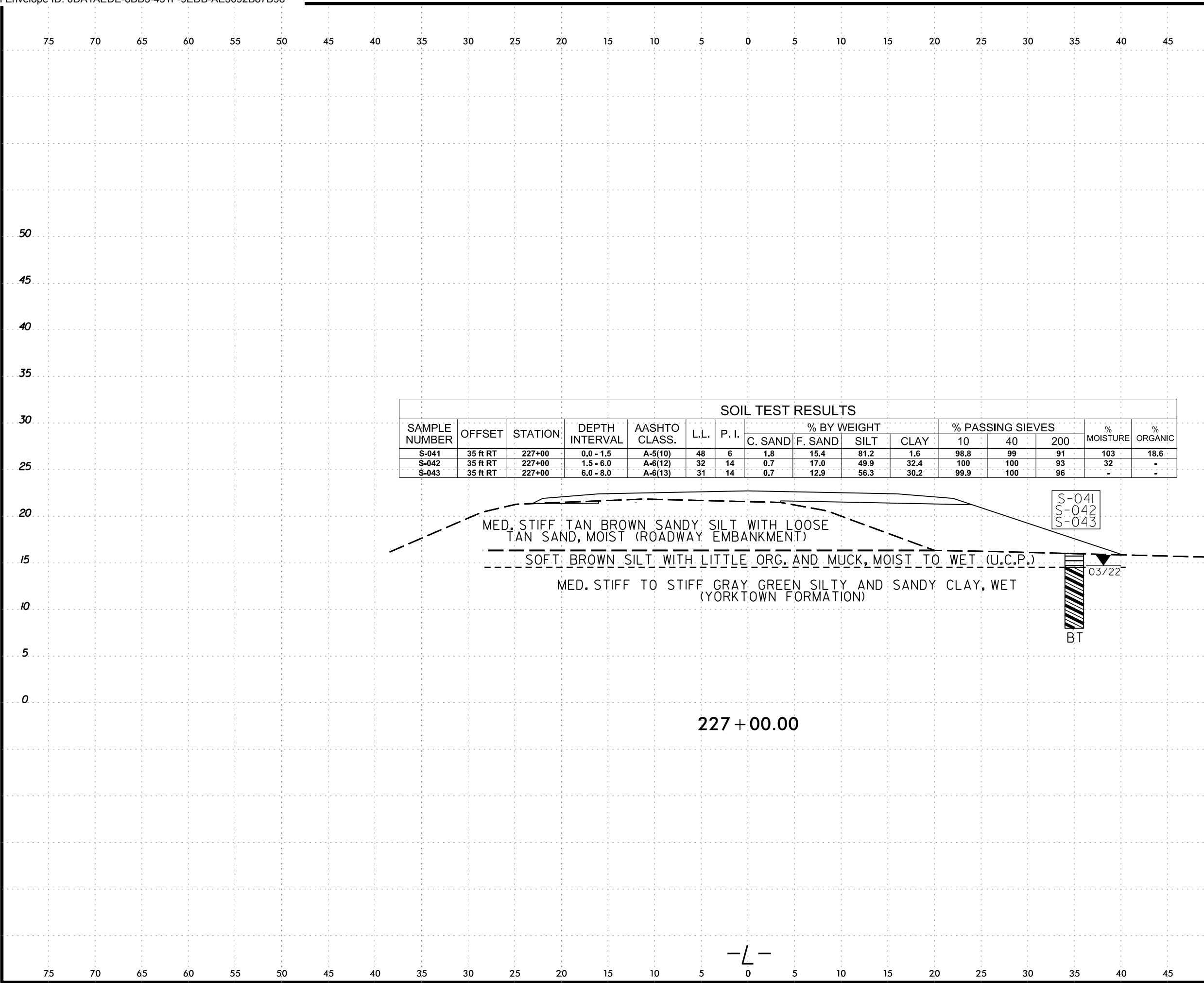


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Lee Stone AT LSTONE-CAD-PC

02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	448



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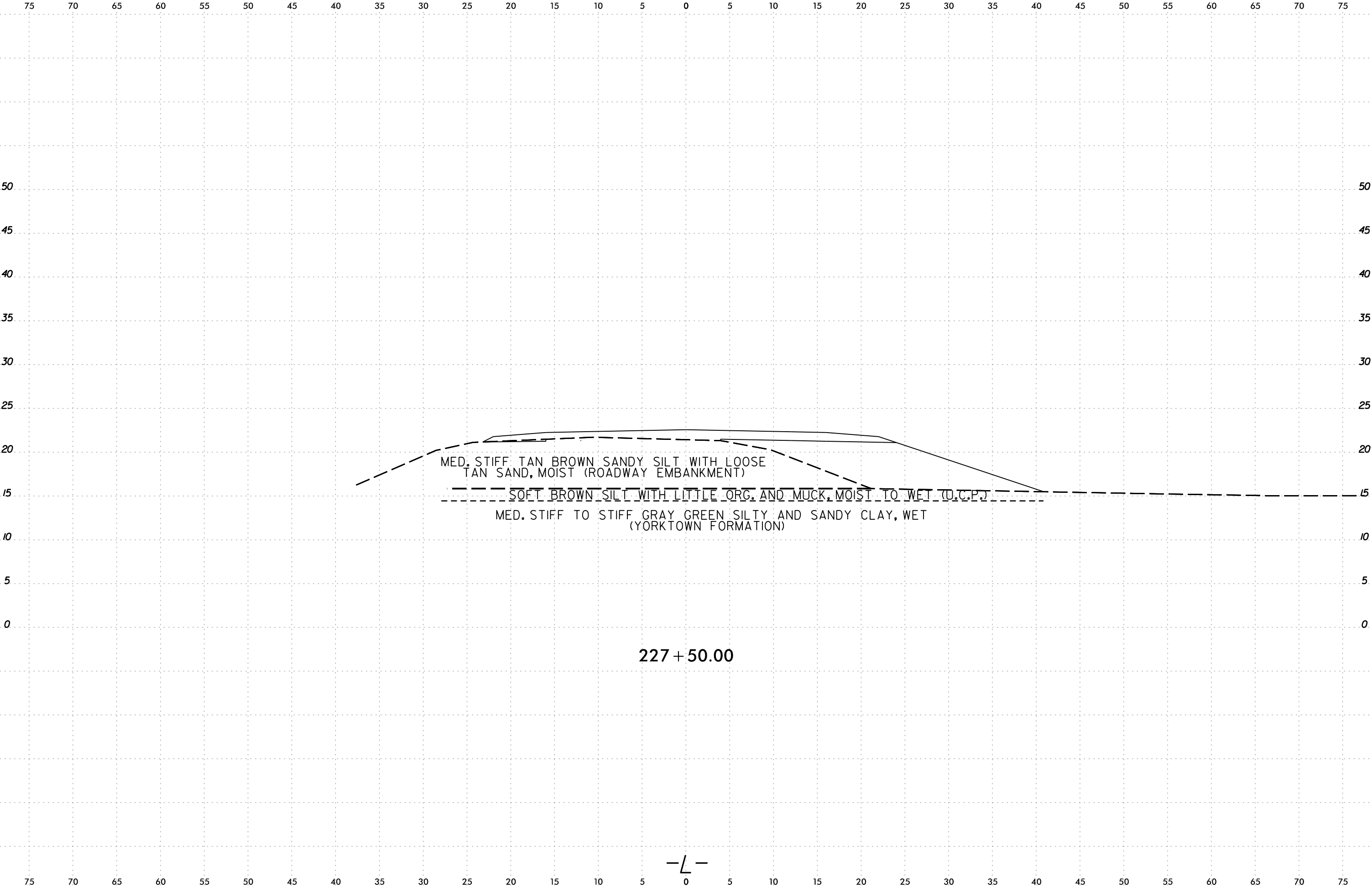
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Lee Stone AT LSTONE-CAD-PC

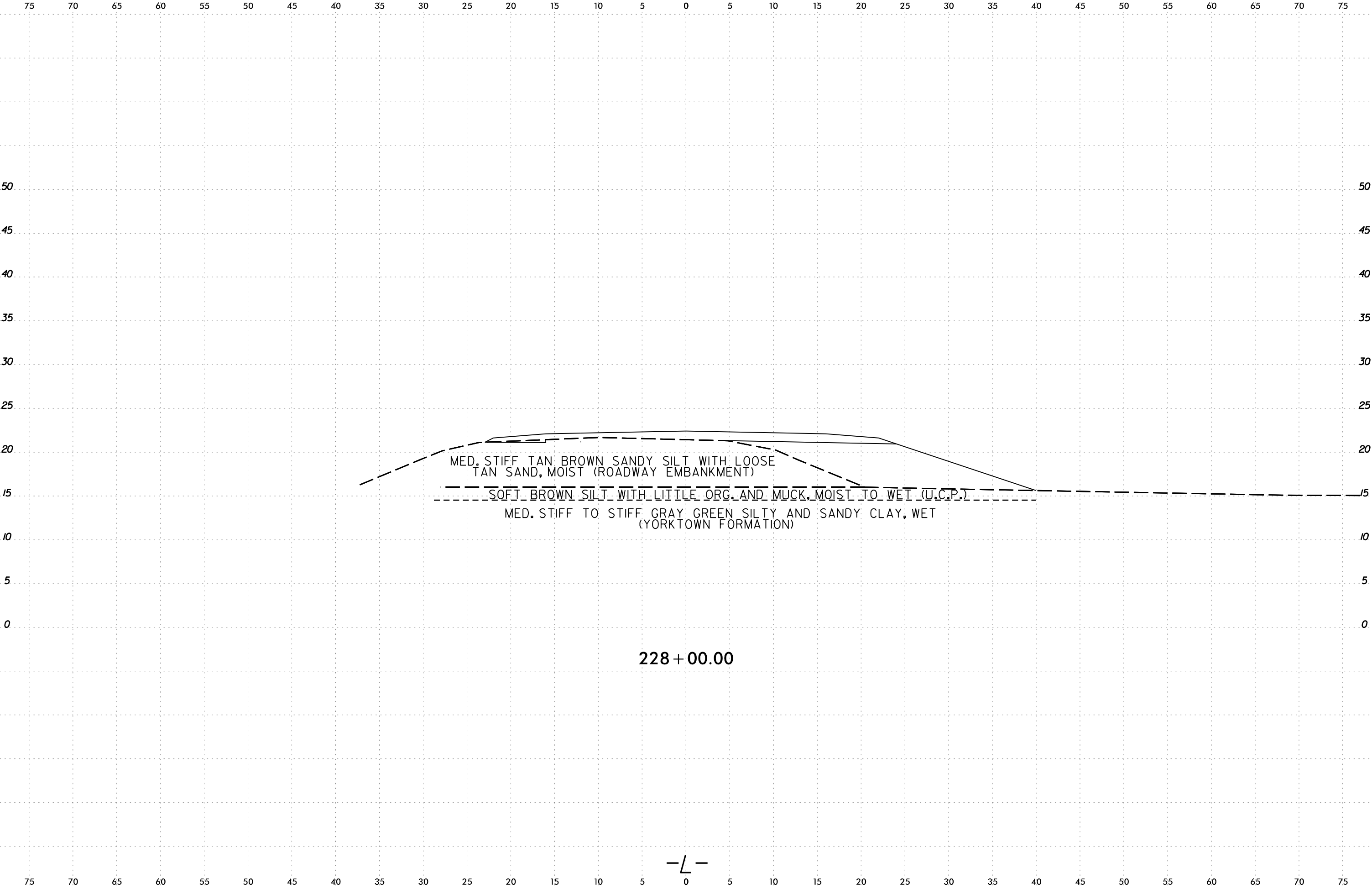
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Lee Stone AT LSTONE-CAD-PC

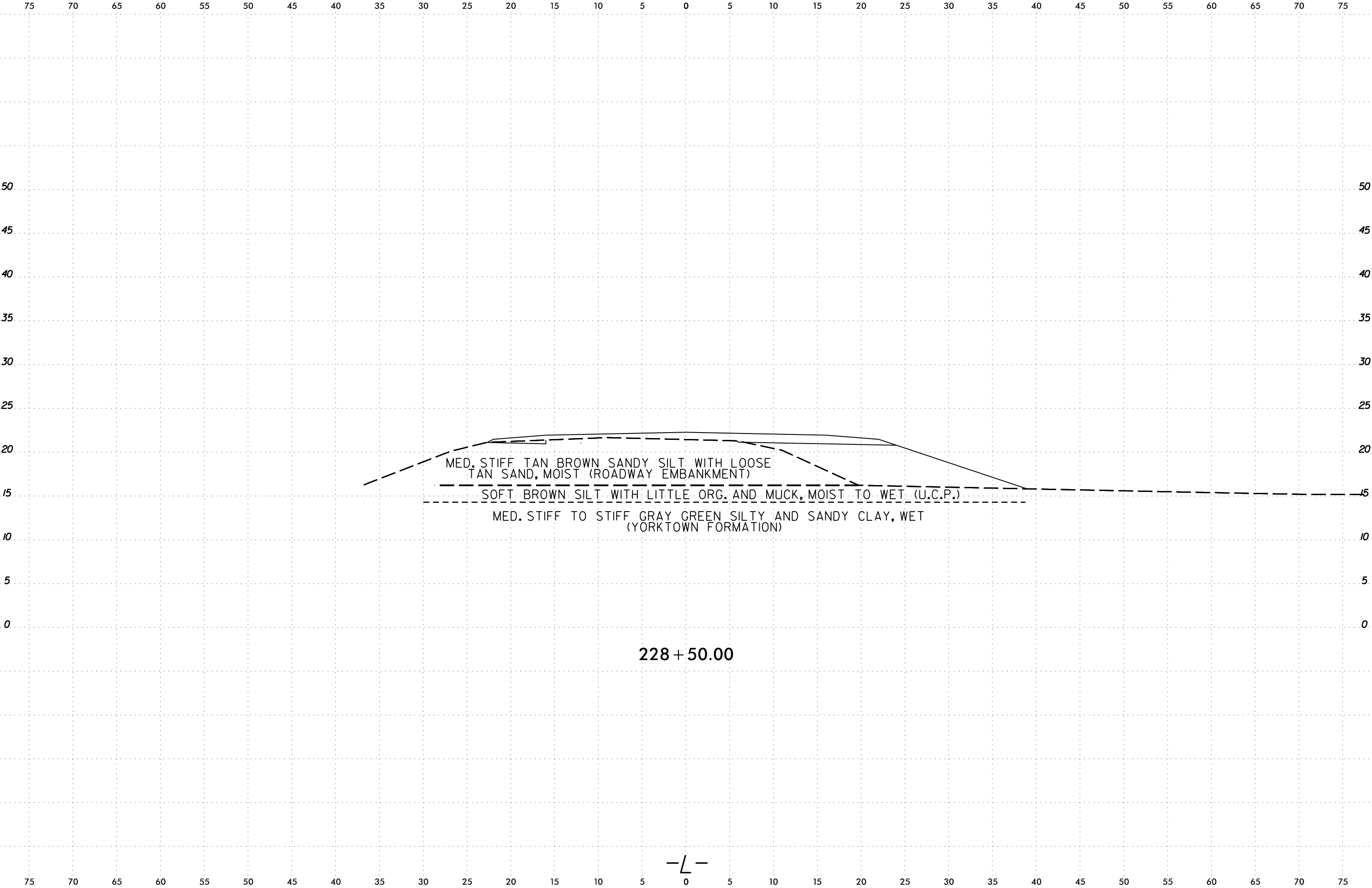
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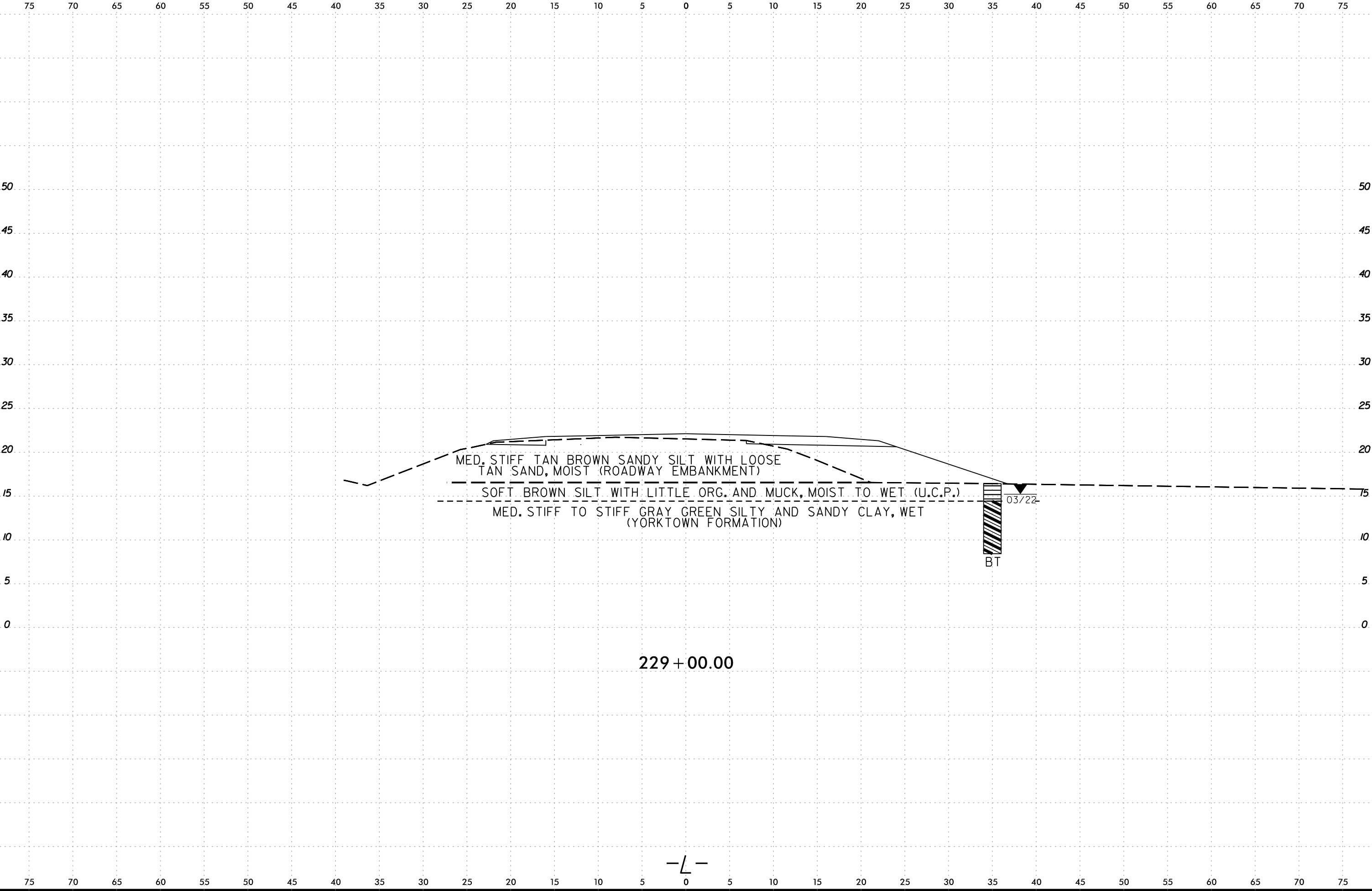
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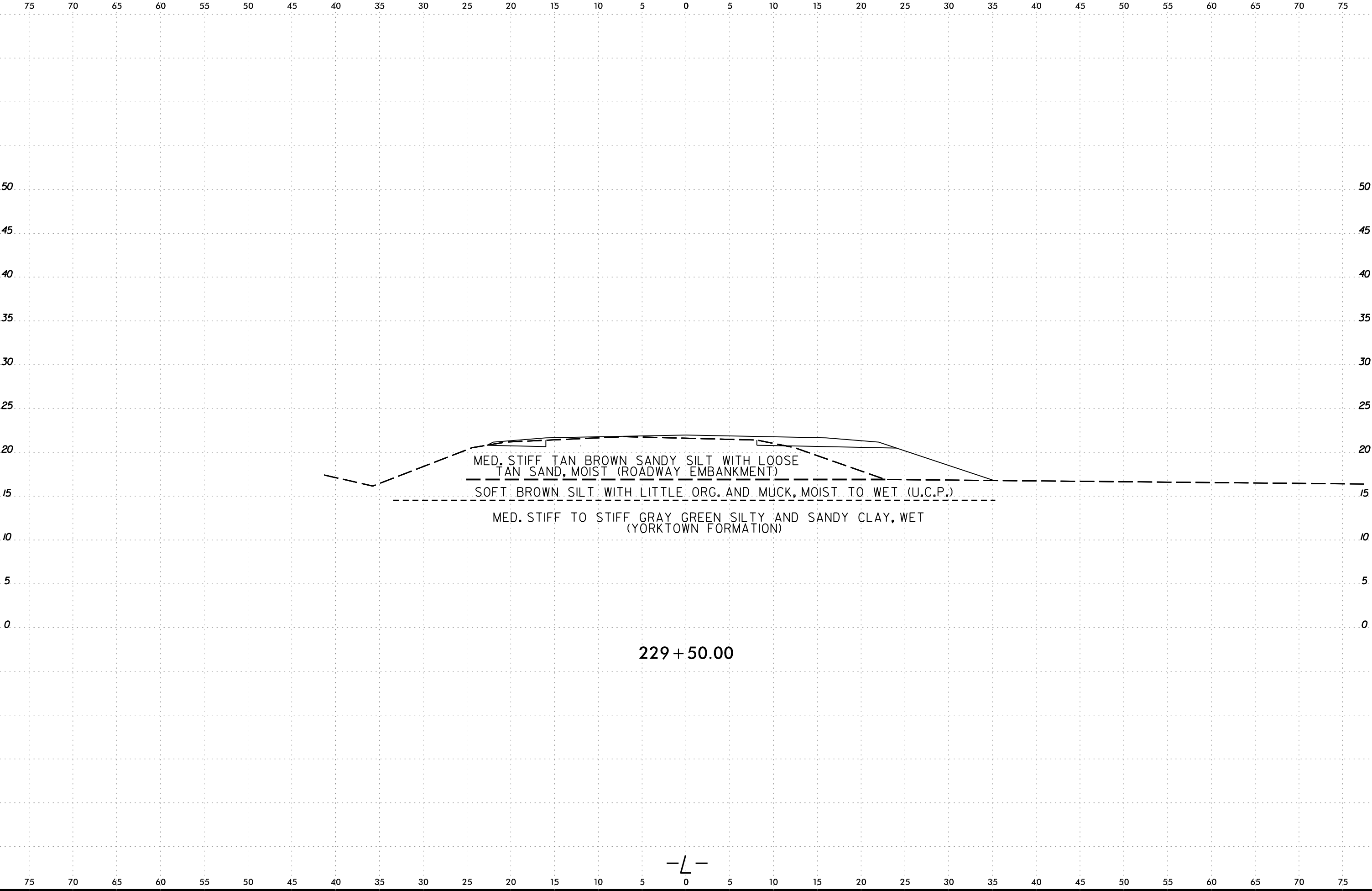
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Lee Stone AT LSTONE-CAD-PC

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	R-5808	454

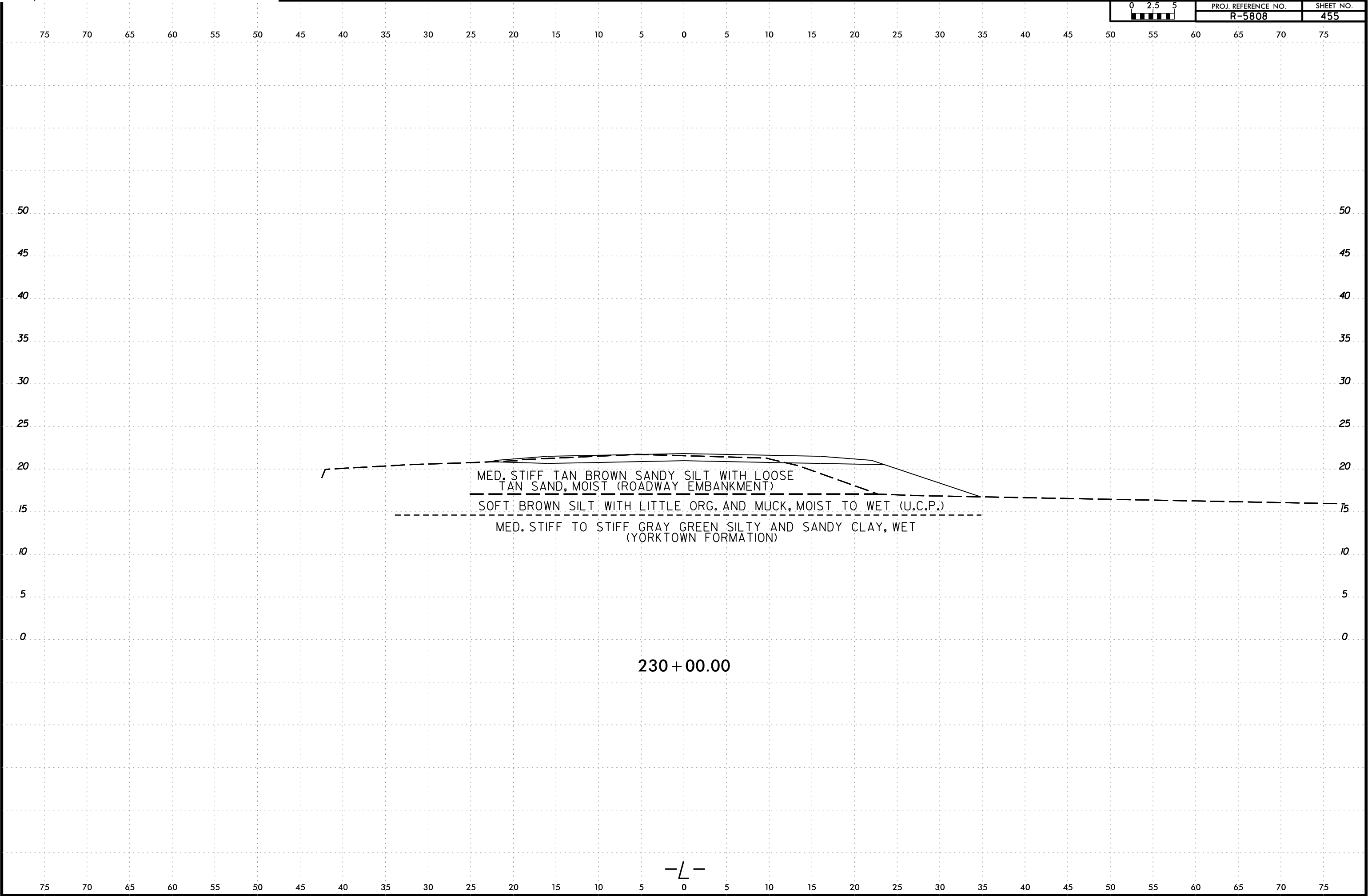


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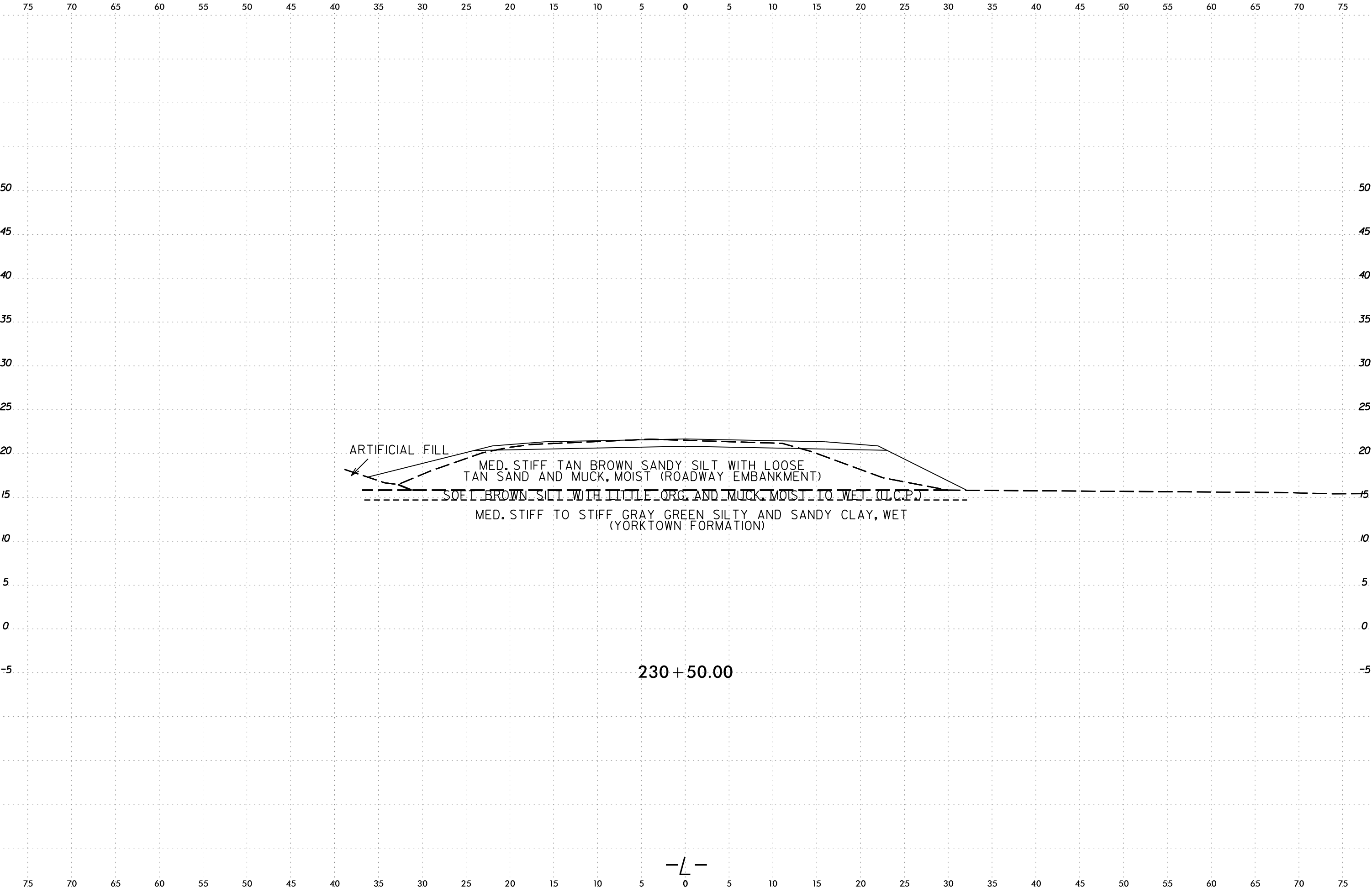
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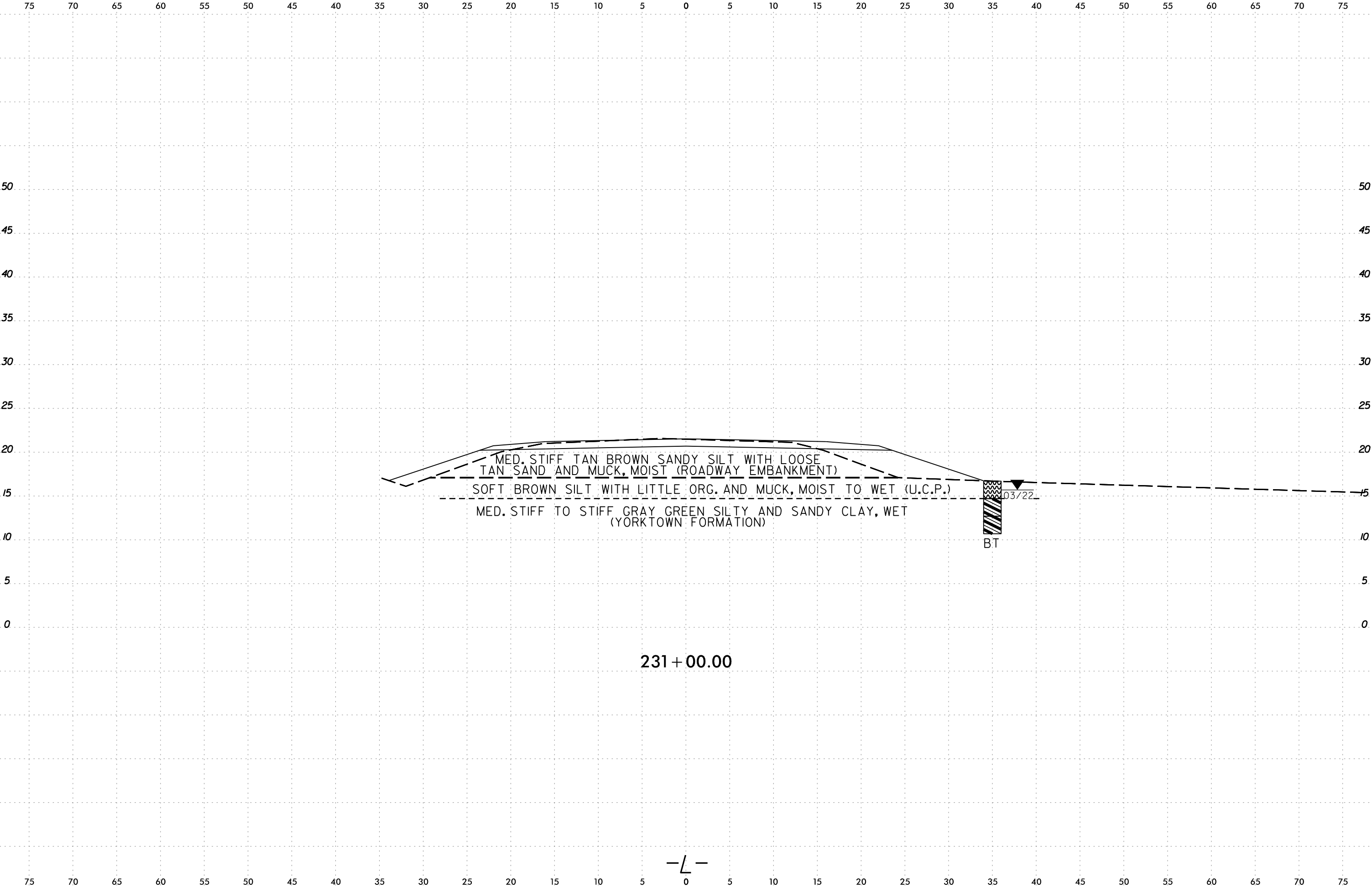
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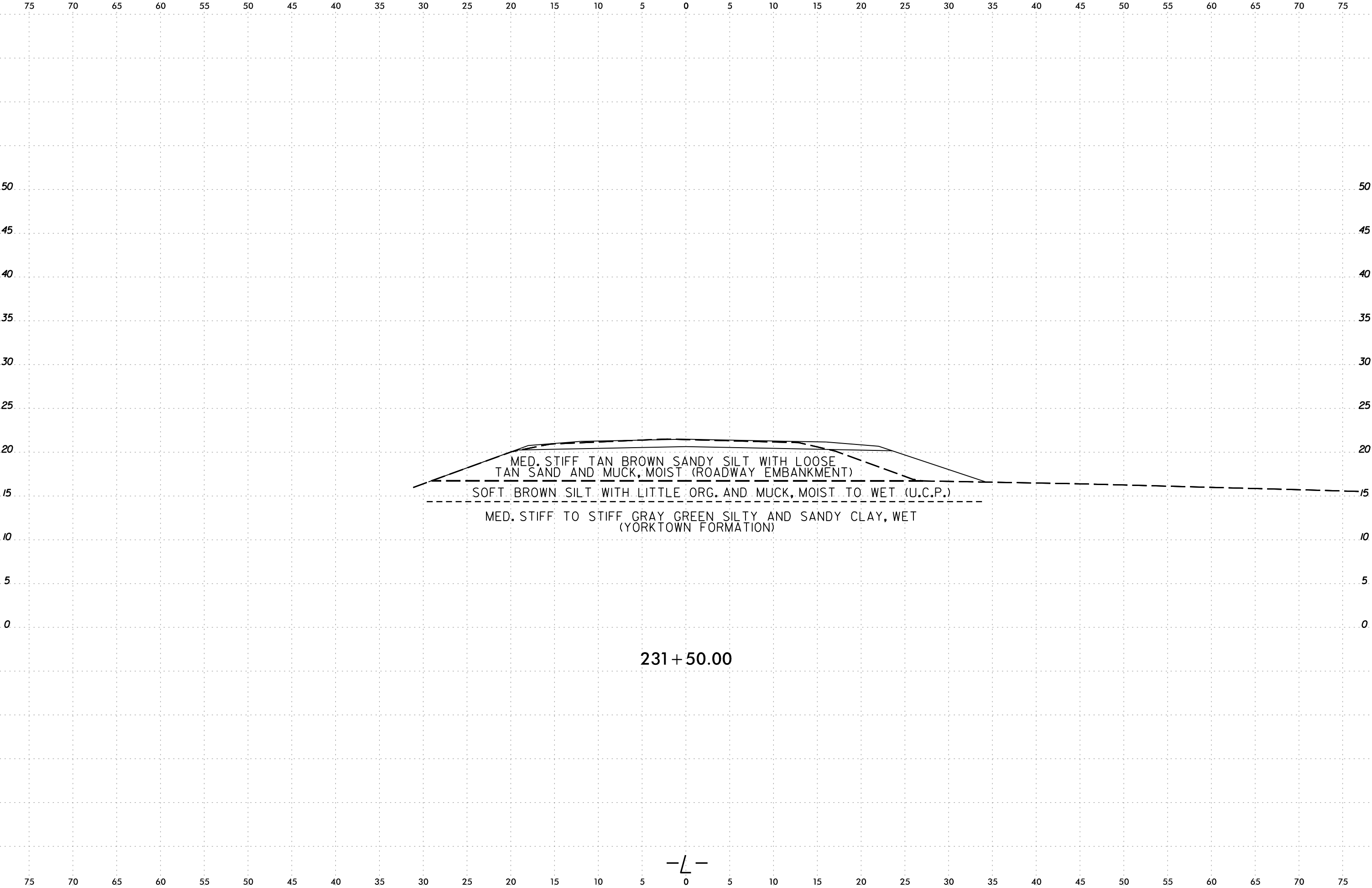
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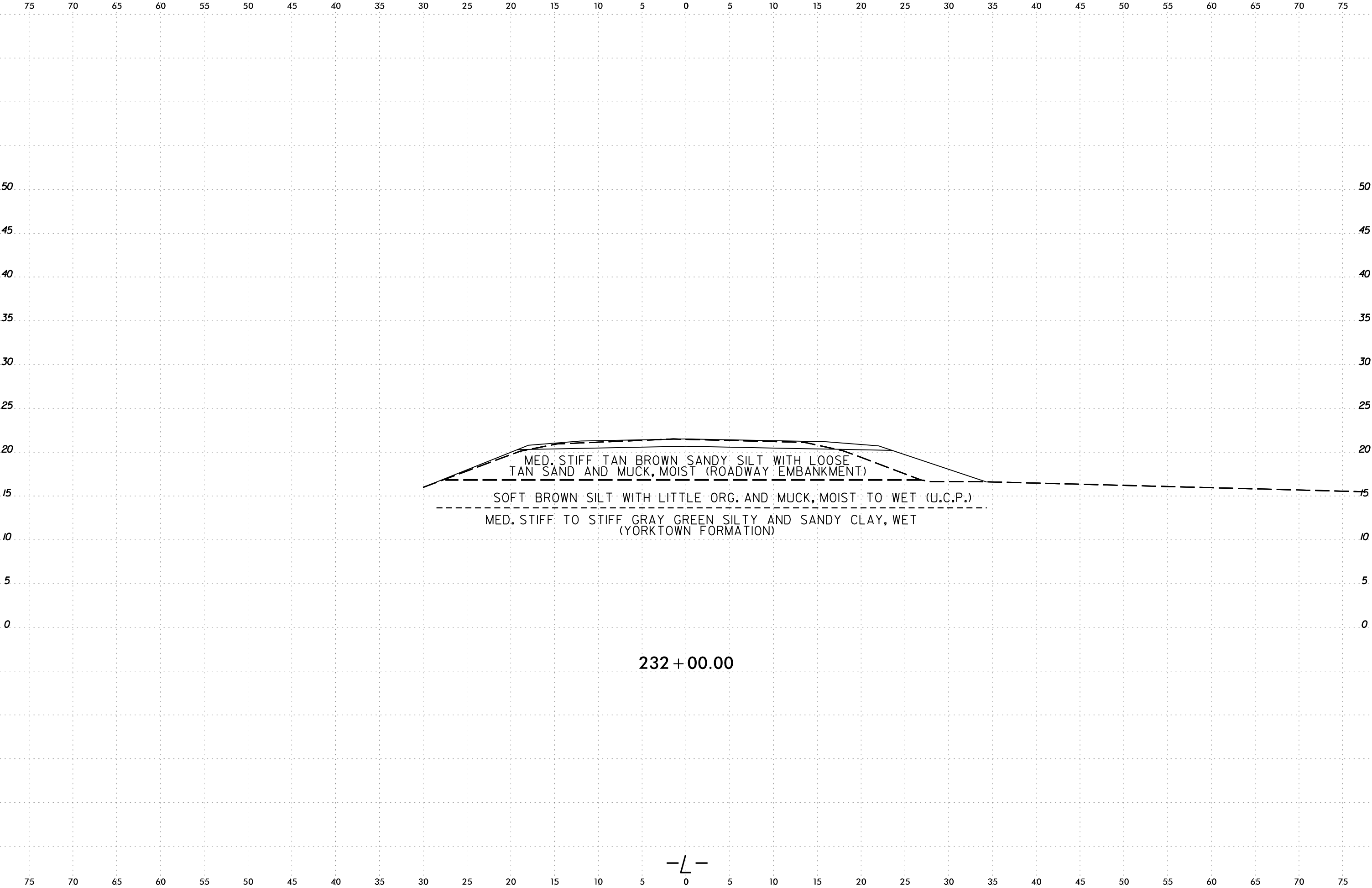
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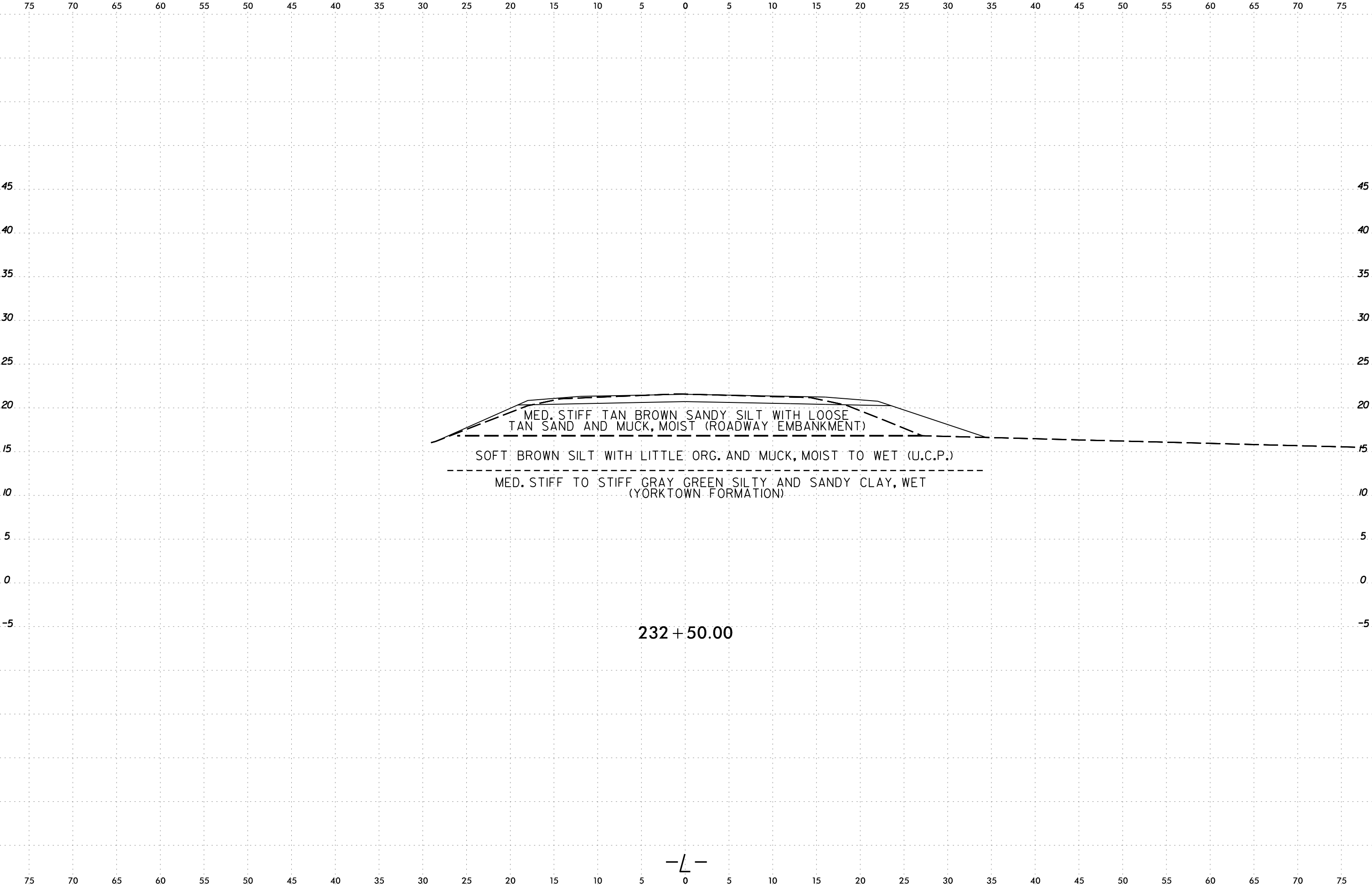
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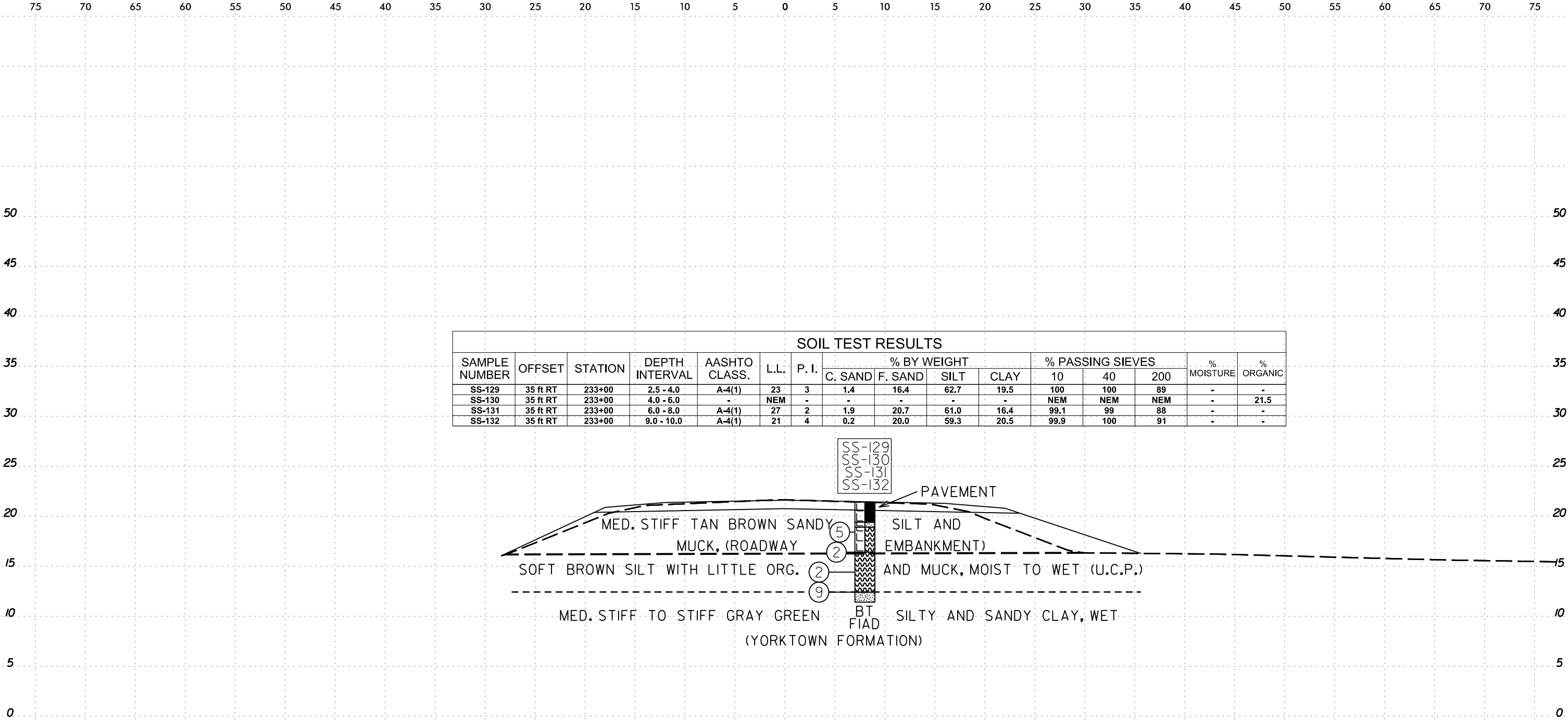
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02.55	PROJ. REFERENCE NO.	SHEET NO.
	R-5808	460



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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	-	-

SS-129
SS-130
SS-131
SS-132

PAVEMENT

MED. STIFF TAN BROWN SANDY MUCK, (ROADWAY

SILT AND EMBANKMENT)

SOFT BROWN SILT WITH LITTLE ORG.

AND MUCK, MOIST TO WET (U.C.P.)

MED. STIFF TO STIFF GRAY GREEN (YORKTOWN FORMATION)

BT FIAD SILTY AND SANDY CLAY, WET

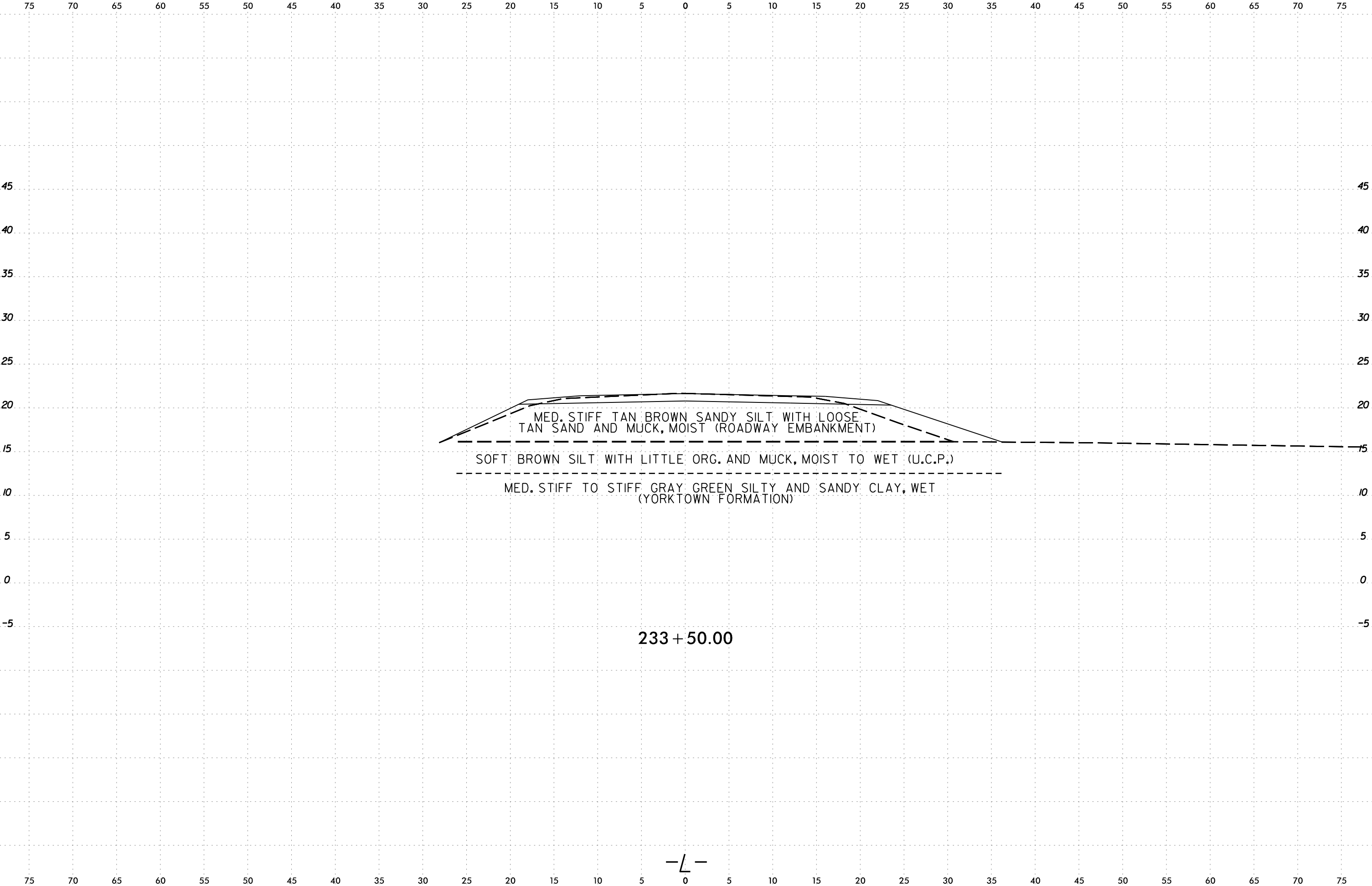
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Lee Stone AT LSTONE-CAD-PC

	PROJ. REFERENCE NO.	SHEET NO.
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