

PROJECT: 50162 / 37765 REFERENCE: U-5725R-3822

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5725R-3822	1	284

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- 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.

ROADWAY SUBSURFACE INVESTIGATION

COUNTY HALIFAX
PROJECT DESCRIPTION NC 125 FROM I-95 TO OLD FARM ROAD SOUTH, SR 1627 (THREE BRIDGES ROAD) FROM NC 125 TO PREMIER BOULEVARD
INVENTORY

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LINE	STATION	PLAN	PROFILE
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-Y3-	8+10 TO 30+18	7, 14, 19	20
-Y4-	10+00 TO 17+12	10	-
-Y5-	10+00 TO 14+41	12	-
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CROSS SECTIONS

LINE	STATION	SHEETS
-L-	10+00 TO 100+00	21-97
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APPENDICES

APPENDIX	TITLE	SHEETS
A	BORE LOGS	209-264
B	SOIL TEST RESULTS	265-271
C	LI-4000 STI CONSOLIDATION TEST RESULTS	272-284

PERSONNEL

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C.R. PASTRANA

D.M. NANCE

B.R. LONG

AMERIDRILL

INVESTIGATED BY ESP Associates, P.A.

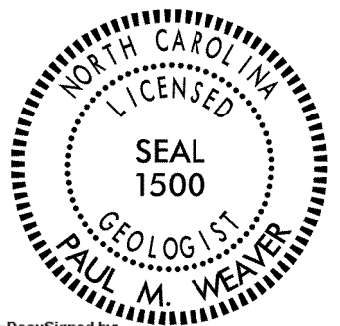
DRAWN BY C.R. PASTRANA

CHECKED BY P.M. WEAVER

SUBMITTED BY ESP Associates, P.A.

DATE February 2018

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DocuSigned by:
Paul Weaver

01847D3739AD49C
SIGNATURE

DATE

**DOCUMENT NOT CONSIDERED FINAL
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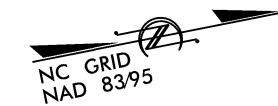
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Plan Sheet Symbols

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

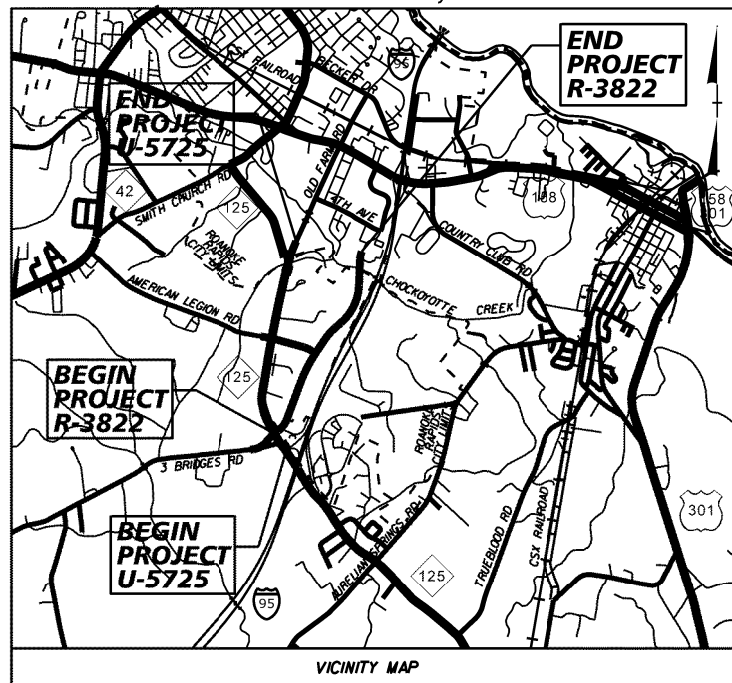
HALIFAX COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5725R-3822	3	284
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50162.1.1		P.E. (U-5725)	
37765.1.6		P.E. (R-3822)	

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

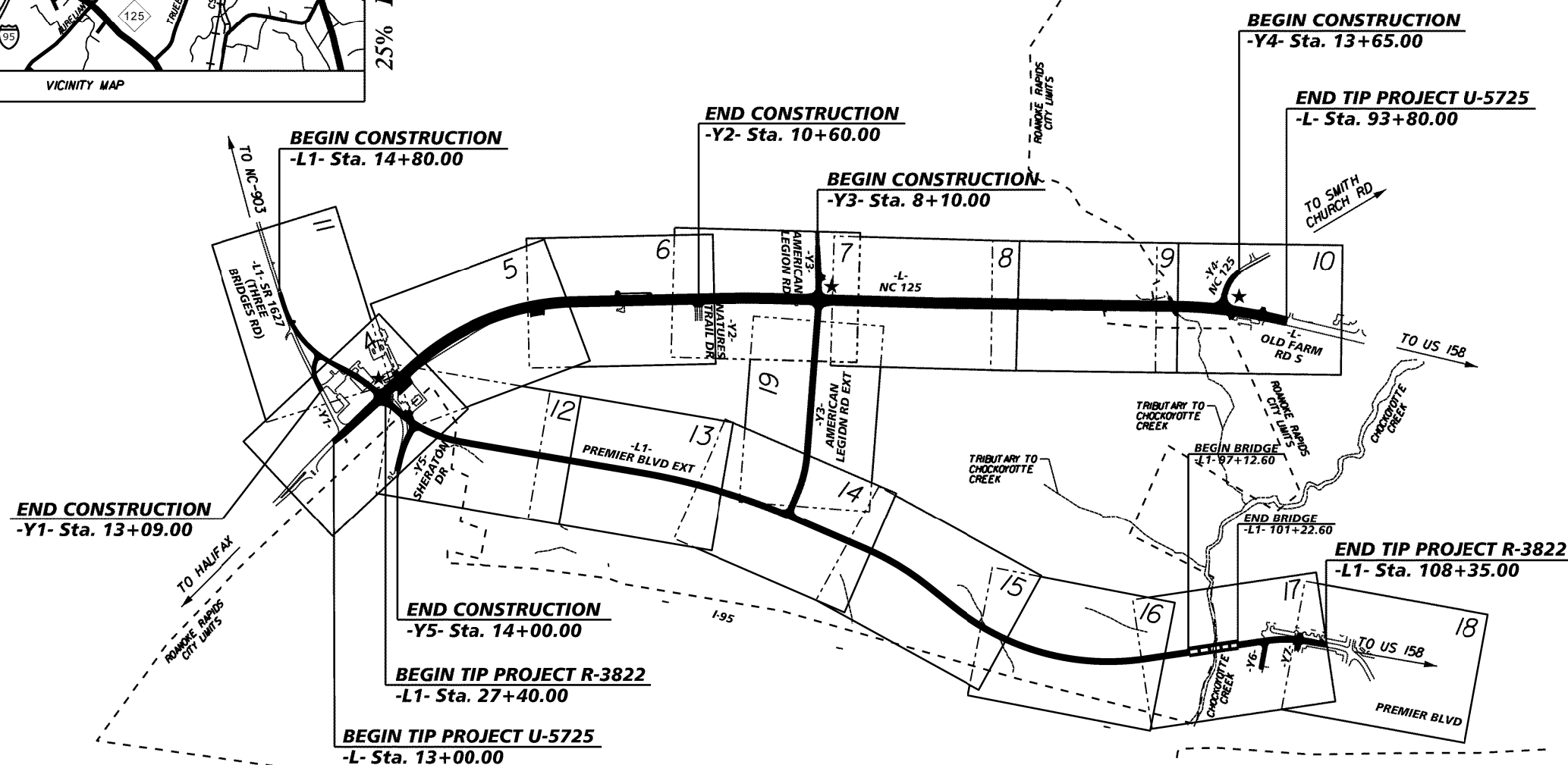


CONTRACT: U-5725/R-3822



25% PLANS

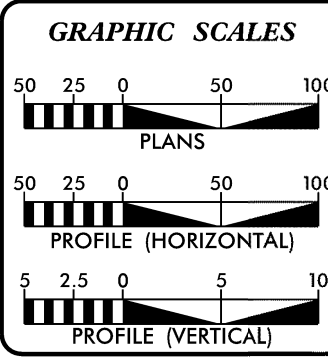
LOCATION: NC 125 FROM I-95 TO OLD FARM ROAD SOUTH, SR 1627 (THREE BRIDGES ROAD) FROM NC 125 TO PREMIER BOULEVARD
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, SIGNALS, AND STRUCTURES



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

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

★ PROPOSED TRAFFIC SIGNAL



U-5725 DESIGN DATA

AADT 2017 =	10400
AADT 2040 =	15100
K =	10%
D =	55%
T =	3%*
V =	50 MPH
* (TTST 1% + DUAL 2%)	
FUNCTIONAL CLASSIFICATION:	
RURAL ARTERIAL REGIONAL TIER	

R-3822 DESIGN DATA

AADT 2017 =	0
AADT 2040 =	3200
K =	8%
D =	55%
T =	3%*
V =	40 MPH
* (TTST 1% + DUAL 2%)	
FUNCTIONAL CLASSIFICATION:	
LOCAL SUB-REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY	TIP PROJECT R-3822 = 1.455 MILES
LENGTH STRUCTURE	TIP PROJECT R-3822 = 0.078 MILES
TOTAL LENGTH	TIP PROJECT R-3822 = 1.533 MILES
LENGTH ROADWAY	TIP PROJECT U-5725 = 1.530 MILES
TOTAL LENGTH	TIP PROJECT U-5725 = 1.530 MILES

PLANS PREPARED FOR THE NCDOT BY:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

Kimley»Horn

100 COLUMBIA RD
401 FAYETTEVILLE STREET, SUITE 600
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HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.





February 8, 2018

STATE PROJECT: 50162.1.1 (U-5725)/37765.1.5 (R-3822)
 COUNTY: Halifax
 DESCRIPTION: Widening of NC 125 (-L-) from I-95 to Old Farm Road/Premier Boulevard
 Extension (-L1-) from NC 125 to South of US 158
 SUBJECT: Geotechnical Inventory

Project Description

NC 125 Widening (U-5725)

This proposed project is located in Roanoke Rapids, North Carolina. It begins at Station 13+00, which is approximately 1,150 feet north of I-95, and continues to Station 93+80, which is approximately 530 feet north of the intersection of NC 125 and Old Farm Road for a total project length of approximately 1.5 miles. The project area is primarily rural with primarily single-family homes and cultivated fields.

Proposed is the addition of two new lanes to the existing two-lane roadway. The location of the proposed widening in relation to the existing roadway varies along the length of the project. The proposed maximum embankments heights for this portion of the project are approximately 15 feet while the proposed maximum cut depths are approximately 5 feet. Intersections along the project include Three Bridges Road (-L1-), Natures Trail Road (-Y2-), American Legion Road Extension (-Y3-), and NC 125 (-Y4-).

This geotechnical investigation was confined to the areas of proposed construction.

Premier Boulevard Extension (R-3822)

This project is located in Roanoke Rapids, North Carolina. It begins at Station 14+95, which is approximately 1,185 feet west of NC 125 (-L-), and continues to Station 108+35, which is approximately 430 feet south of the existing end of Premier Boulevard for a total project length of approximately 1.8 miles. The project area is primarily rural with primarily woods and cultivated fields.

Proposed is the construction of a new two-lane roadway. The proposed maximum embankments heights for this portion of the project are approximately 15 feet while the proposed maximum cut depths are approximately 10 feet. Intersections along the project include -Y1-, Sheraton Drive (-Y5-), American Legion Road Extension (-Y3-), -Y6-, and -Y7-. This geotechnical investigation was confined to the areas of proposed construction.

This geotechnical investigation was confined to the areas of proposed construction.

Initial site scoping and the beginning of boring layout was performed on October 12, 2017. The field bridge/roadway investigation was performed from October 16 through November 15, 2017 and December 18 through 22, 2017. Standard Penetration Test borings were advanced with a CME 550X drill machine equipped with an automatic hammer. Hand auger borings with bridge probe rods were also performed at selected locations. Representative soil samples were collected for visual classification in the field and for laboratory analyses.

The following alignments were investigated. Subsurface cross sections of these alignments are included in this report.

Alignment	Station(±)
-L-	13+00 to 93+80
-L1-	14+80 to 108+35
-Y1-	10+00 to 13+10
-Y2-	10+00 to 11+40
-Y3-	10+00 to 30+19
-Y4-	13+65 to 17+12
-Y5-	10+00 to 14+00
-Y6-	10+00 to 12+30
-Y7-	10+00 to 10+80

Physiography and Geography

The project corridor is located on the eastern edge of the Eastern Slate Belt physiographic province and on the western edge of the Coastal Plain physiographic province. The Eastern Slate Belt lies to the east of the Raleigh and Kiokee metamorphic belts and is composed dominantly of lower grade metamorphosed greenschist facies metavolcanic rocks, metasedimentary rock, and several post-metamorphic plutons. Rock was only encountered during this investigation in the borings performed for the culvert (centerline at -L- Station 84+52) on NC 125, and in the borings for the bridge over Chockoyotte Creek (-L1- Stations 97+13 to 101+23). The rock encountered consisted of metamorphosed quartz diorite.

The Geologic Map of North Carolina (1985) shows the project corridor area to have coastal plain sediments interwoven with the above Eastern Slate Belt materials. The Coastal Plain materials within the project area are Undivided Coastal Plain materials deposited during transgressive-regressive cycles caused by eustatic sea level fluctuations and generally consist of sand, clayey sand, and clay. Residual soils (Eastern Slate Belt Materials) were only encountered on -L- from Station 81+25± to 87+25±, on -L1- from Stations 85+75± to 86+75±, 92+25± to 95+75, and 96+75± to 104+75±, in the borings for the bridge on -L- over Chockoyotte Creek, and on -Y6- from Stations 10+25± to 10+75±. The residual soils generally consist of sands, silts, and clays

The topography along the project corridor consist of gently rolling hills. The proposed roadway along NC 125 (-L-) generally slopes down from the beginning (south end) of the project to the end (north end) of the project with elevations ranging from approximately 165 feet (MSL) to approximately 105 feet (MSL), while the proposed roadway along Premier Boulevard Extension (-L-) generally slopes down from the beginning (west end) of the project to the end (north end) of the project with elevations ranging from approximately 160 feet (MSL) to approximately 85 feet (MSL). Swampy areas is present on -L- between Stations 81+00± and 87+00±, and on -L1- between Stations 39+00± and 41+00±, 94+50± and 99+00±, and 100+00± and 101+50±.

Soil Properties

Soils encountered within this project area have been divided into five categories: alluvial deposits, artificial fill, roadway embankment, coastal plain soils, residual soils, and weathered rock.

Asphalt pavement (either existing roadway or drive/parking areas) was present at the existing ground surface at the following borings: L_4100, L_4500, L_5350, Y5_1059RT. The asphalt encountered within the roadway borings ranges in thickness from 3 inches to 8.5 inches with 6 inches of ABC stone underlying the asphalt at boring Y5_1059RT. The pavement design investigation performed for this project and issued under separate cover indicates that the existing asphalt pavement within the existing NC 125 roadway within the project limits ranges from 4 to 9.5 inches in thickness with base stone thicknesses ranging from 0 to 7.5 inches.

Surficial organic soils were encountered in Borings L_2123, L_2300, L_2500, L_2700, L_2900RT, L_3100, L_5100, L_5500, L_6500, L_6700, L_6900, L_7100, L_7300, L_7900, L_8220, L_8700, L1_2270, L1_2800, L1_3200, L1_3600, L1_3800, L1_4200, L1_4400, L1_4600, L1_8216, Y3_1300, Y3_2100, and Y5_1050LT to depths ranging from 0.3 feet to 1.3' below the existing ground surface. Minor amounts (less than 4 inches) of topsoil was encountered in other borings.

Soils identified as alluvial deposits were encountered in borings L_8100, L_8220, CULV1-A, CULV1-B, L_8700 LT, L_8700RT, L1_3400, L1_4000, L1_8000, the borings for the bridge on -L1- over Chockoyotte Creek, and Y4_1550. The alluvial deposits range in depth from 1.7 feet to 10 feet below the existing ground surface and generally consist of very soft to medium stiff, sandy silt (A-4), clayey silt (A-5), sandy clay (A-6), and silty clay (A-7), and of very loose to medium dense, silty sand (A-2-4), and clayey sand (A-2-6). Organic contents within the alluvial materials range from a trace to highly organic (muck) and gravel/cobbles are common.

Artificial fill material was encountered in borings CULV1-A, L_8700, L1_2800, L1_3000, L1_8000, L1_10300, L1_10502, L1_10700, and Y6_1050LT. Artificial fill is fill material placed outside of the roadway embankment by entities other than the NCDOT and thus without the quality and compaction controls inherent in roadway embankment construction. The artificial fill extended to depths ranging from approximately 1.2 feet to approximately 10 feet below the existing ground surface and sampled as soft to medium stiff, silty clay (A-6 and A-7-5), and very loose to medium dense sand (A-1-b), silty sand (A-2-4) and clayey sand (A-2-6). Gravel was present within some of in the sampled artificial fill, and the higher blow counts within the artificial fill were influenced by the gravel. Moderate amounts of organics were present within the artificial fill at Boring Y6_1050LT.

Roadway embankment soils were encountered in Borings L_1700, L_4100, L_4500, L_5350, L_7900, and Y5_1059RT. Where encountered, the roadway embankment ranged in thickness from approximately 1.5 feet

to approximately 5.3 feet, and was composed of medium stiff to stiff, sand clay (A-6), and loose to medium dense, coarse sand (A-1-b) and silty sand (A-2-4). Roadway embankment soils are present underlying the majority of the existing NC 125 (-L-) roadway. The pavement design investigation performed for this project and issued under separate cover indicates that the existing roadway embankment soils under NC 125 generally consist of sandy clay (A-6) and silty sand (A-2-4).

Soils classified as Undivided Coastal Plain were encountered in all borings drilled for this project with the exception of Borings L_8220, CULV1-A, CULV1-B, and the borings for the bridge on -L1- over Chockoyotte creek. The coastal plain soils consisted of very soft to hard, clayey silt (A-5) and silty clay (A-7-5), and very loose to dense sand (A-1-b and A-2-4) and clayey sand (A-2-6). Plasticity indexes within the clay soils ranged from slightly to highly plastic. All borings with the exception of Borings L_8220, CULV1-A, CULV1-B, L_8700RT, L1_8600, L1_9400, the borings for the bridge on -L1- over Chockoyotte Creek, and Boring L1_10300 were terminated in coastal plain soil.

Soils classified as residual consisted of soft to hard, sandy silts (A-5), sandy clays (A-6), and silty clays (A-7), and medium dense to dense silty sand (A-2-4). Borings L1_8600, L1_9400, and L1_10300 were terminated in residual soil.

Weathered rock is defined as material that has weathered from the parent bedrock and that exhibits SPT N values greater than 100 blows per foot but less than 60 blows per 0.1 foot. The weathered rock on this project is Metamorphosed Quartz Diorite and was encountered underlying the residual soil on -L- at depths ranging from approximately 6 feet to approximately 16.5 feet. At the borings drilled for the bridge on -L1- over Chockoyotte creek, weathered rock was encountered either directly underlying the alluvium or underlying the residual soils at depths ranging from approximately 6 feet to approximately 27 feet. Boring EB2-B was terminated in weathered rock

Rock Properties

Crystalline rock is visible along the project corridor in as rock outcrops in the creek on -L- (approximately Station 84+52). Strikes and dips for the rock outcrops could not be measured due to the limited amounts of rock exposed. Crystalline rock was encountered either directly underlying the residual soil or underlying weathered rock in Borings L_8220, CULV1-A, CULV1-B, and L-8700RT at depths ranging from approximately 8.5 feet to approximately 17.5 feet. Crystalline rock was also encountered in the borings drilled for the bridge on -L1- over Chockoyotte Creek directly underlying the residual soil or underlying the weathered rock at depths ranging from approximately 10 feet to approximately 39 feet. The crystalline rock along the project corridor classifies as a Metamorphosed Quartz Diorite.

Groundwater Properties

Ground water data was collected in November and December, 2017. Ground water depths ranged from 1± to 13± feet below the existing ground surface, and groundwater elevations ranged from 140± to 77± feet above sea level.

Areas of Special Geotechnical Interest

- 1) The following sections contain soft, cohesive soils within 3 feet of the proposed subgrade which have the potential to cause embankment/subgrade and/or slope stability problems during construction:

Alignment	Station(±)
-L-	71+75 to 74+25
-L-	76+25 to 78+25
-L-	80+25 to 81+75
-L-	83+75 to 85+75
-L1-	17+25 to 22+25
-L1-	22+75 to 25+25
-L1-	31+75 to 35+25
-L1-	71+75 to 75+25
-L1-	76+25 to 77+75
-L1-	79+25 to 81+25

- 2) The following sections contain soils with greater than 4 percent organic content (including topsoil greater than 4 inches thick) which have the potential to cause embankment/subgrade and or slope stability problems during construction:

Alignment	Station(±)
-L-	20+75 to 32+75
-L-	50+75 to 51+25
-L-	53+75 to 55+25
-L-	55+75 to 56+25
-L-	63+25 to 68+75
-L-	69+25 to 73+25
-L-	80+75 to 87+25
-L1-	20+75 to 23+75
-L1-	27+75 to 28+75
-L1-	30+25 to 40+75
-L1-	41+25 to 47+75
-L1-	79+75 to 82+25
-L1-	103+25 to 104+25
-Y3-	20+25 to 21+75
-Y5-	10+25 to 10+75
-Y6-	10+25 to 10+75

- 3) The following sections contain high plasticity soils within 3 feet of the proposed subgrade which have the potential to cause embankment/subgrade and or slope stability problems during construction:

Alignment	Station(±)
-L-	22+75 to 28+25
-L-	54+25 to 55+75
-L-	56+75 to 58+25
-L-	74+25 to 76+25
-L1-	74+75 to 75+75
-L1-	76+25 to 77+25
-Y3-	16+25 to 21+75

- 4) The following sections contain wet to saturated soils within 3 feet of the proposed subgrade which have the potential to cause embankment/subgrade and or slope stability problems during construction:

Alignment	Station(±)
-L-	71+75 to 74+25
-L-	76+25 to 82+25
-L1-	16+75 to 22+25
-L1-	32+75 to 35+25
-L1-	71+25 to 77+75
-L1-	79+25 to 81+25
-Y5-	10+00 to 10+75

- 5) The following sections contain groundwater within 6 feet of the proposed grade:

Alignment	Station(±)
-L-	77+75 to 82+75
-L1-	71+25 to 81+75
-L1-	101+30 to 103+25

- 6) The following section contain artificial fill material. Artificial fill is fill material placed outside of the roadway embankment by entities other than the NCDOT and thus without the quality and compaction controls inherent in roadway embankment construction. The artificial fill encountered extended to depths ranging from approximately 2 feet to approximately 8 feet below the existing ground surface. Even though significant quantities of deleterious material was not encountered in the artificial fill sampled in the borings drilled for this project, there is a high probability of these materials within portions of the artificial fill (such as mentioned in Section 2 above):

Alignment	Station to Station (±)	Offset (±)
-L-	18+25 to 18+75	80' RT to +110' RT
-L-	86+75 to 87+25	65' LT to +150' LT
-L1-	27+75 to 28+25	11' LT to +50' RT
-L1-	29+75 to 30+25	36' LT to 30' RT
-L1-	79+75 to 81+25	30' Lt to +50' RT
-L1-	102+75 to 108+00	+60' Lt to +60' RT
-Y6-	10+00 to 12+30	+60' Lt to +60' RT

APPENDIX A – UNDISTURBED AND BULK SAMPLES

SAMPLE NO.	ALIGNMENT	STATION	OFFSET	SAMPLE DEPTH (FT)	SAMPLE TYPE
ST-1	-L1-	40+00	CL	8.3-10.1	Consolidation
UD-1	-L-	36+00	25' LT	0.0-3.0	Standard Proctor and CBR
UD-2	-L-	73+00	25' RT	0.0-3.0	Standard Proctor and CBR

5/14/98

Kimley»Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, N.C. 27601

PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

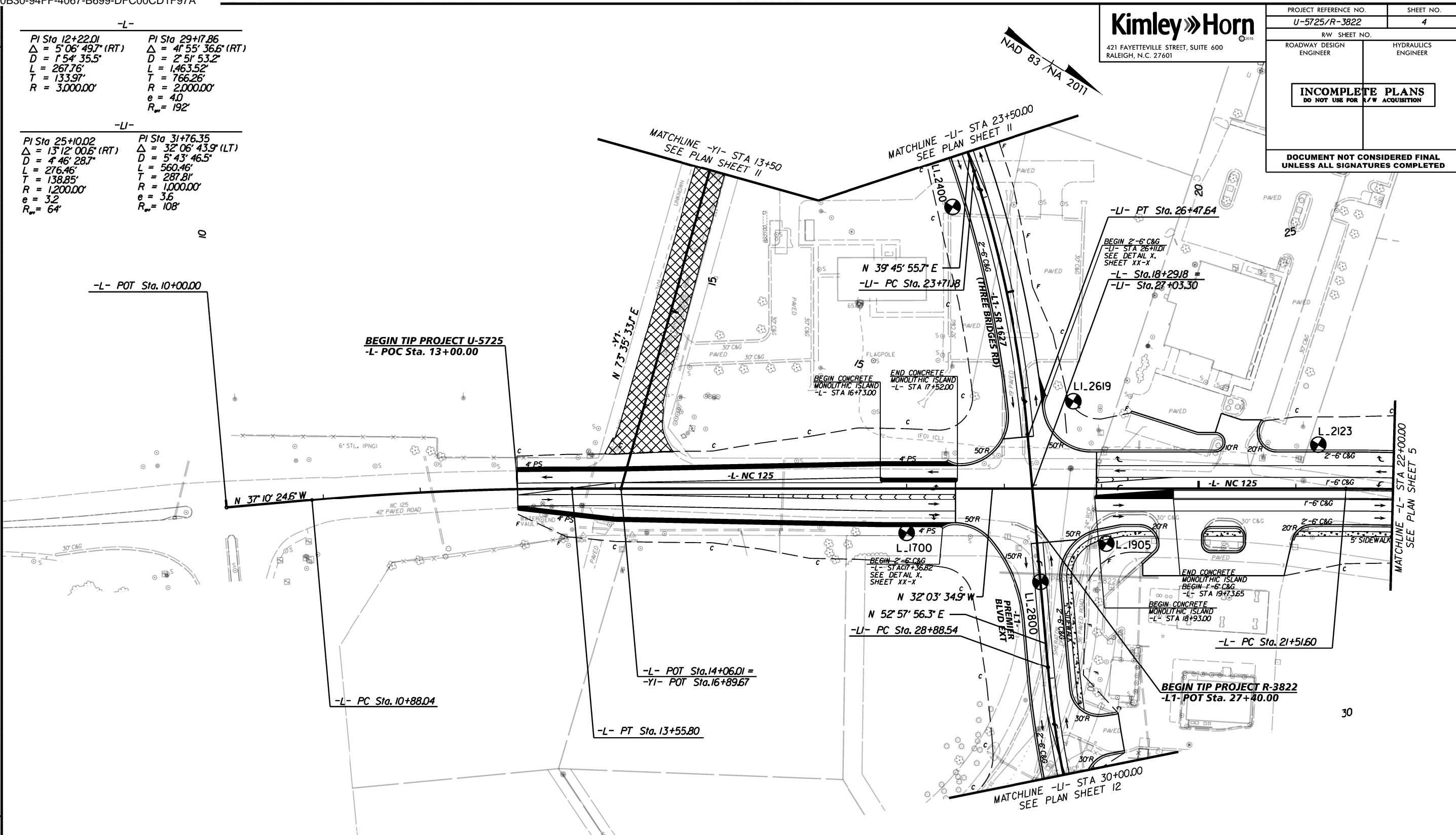
-L-

PI Sta 12+22.01 Δ = 5° 06' 49.7" (RT) D = 1° 54' 35.5" L = 267.76' T = 133.97' R = 3,000.00'	PI Sta 29+17.86 Δ = 41° 55' 36.6" (RT) D = 2° 51' 53.2" L = 1,463.52' T = 766.26' R = 2,000.00' e = 4.0 R _{min} = 192'
---	--

-LI-

PI Sta 25+10.02 Δ = 13° 12' 00.6" (RT) D = 4° 46' 28.7" L = 276.46' T = 138.85' R = 1,200.00' e = 3.2 R _{min} = 64'	PI Sta 31+76.35 Δ = 32° 06' 43.9" (LT) D = 5° 43' 46.5" L = 560.46' T = 287.81' R = 1,000.00' e = 3.6 R _{min} = 108'
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REVISIONS



2017 ADT	-LI- SR 1627	DHV = 10%
2040 ADT	(THREE BRIDGES RD)	DIR = 55%
	2800	TTST = 1%
	3900	DUAL = 2%
	1000	
	1400	
	1800	
	2200	
	10400	
	15100	
	14400	
-L- NC 125	0	-L- NC 125
DHV = 10%	2100	DHV = 9%
DIR = 55%	600	DIR = 60%
TTST = 1%		TTST = 1%
DUAL = 2%		DUAL = 2%
	0	
	3000	
	-LI- PREMIER BLVD EXT	
	DHV = 8%	
	DIR = 60%	
	TTST = 1%	
	DUAL = 2%	

SEE SHEET NO. 20 FOR L PROFILE
SEE SHEET NO. 24 FOR L1 PROFILE
SEE SHEET NO. 27 FOR Y1 PROFILE

5/14/98

-L-
 PI Sta 29+17.86
 $\Delta = 41^{\circ} 55' 36.6''$ (RT)
 $D = 2^{\circ} 51' 53.2''$
 $L = 1,463.52'$
 $T = 766.26'$
 $R = 2,000.00'$
 $e = 4.0'$
 $R_{\text{min}} = 192'$

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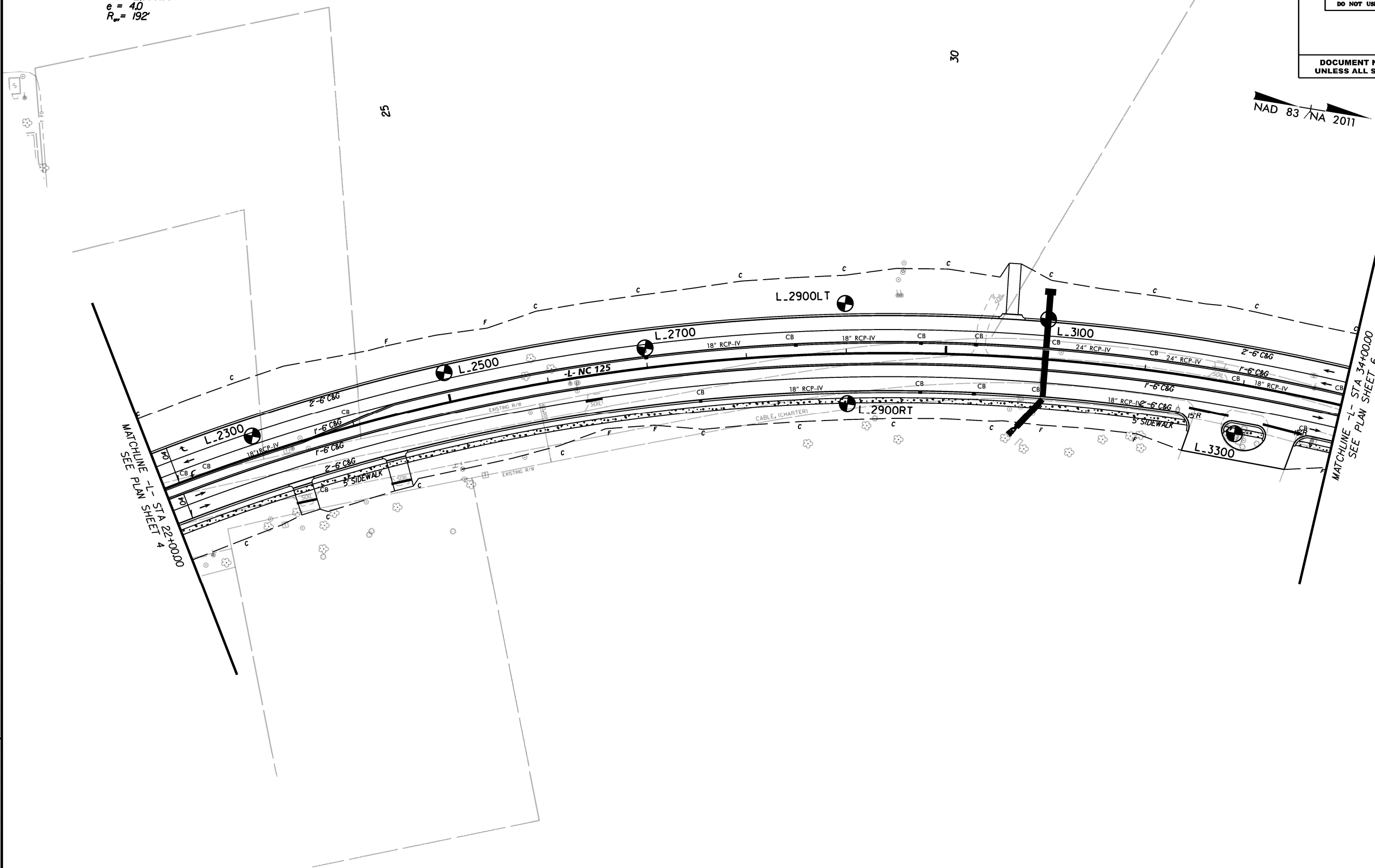
PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

REVISIONS

MATCHLINE -L- STA 22+00.00
 SEE PLAN SHEET 4

MATCHLINE -L- STA 34+00.00
 SEE PLAN SHEET 6



\$DATE\$

SEE SHEET NO. 20 FOR L PROFILE

5/14/99

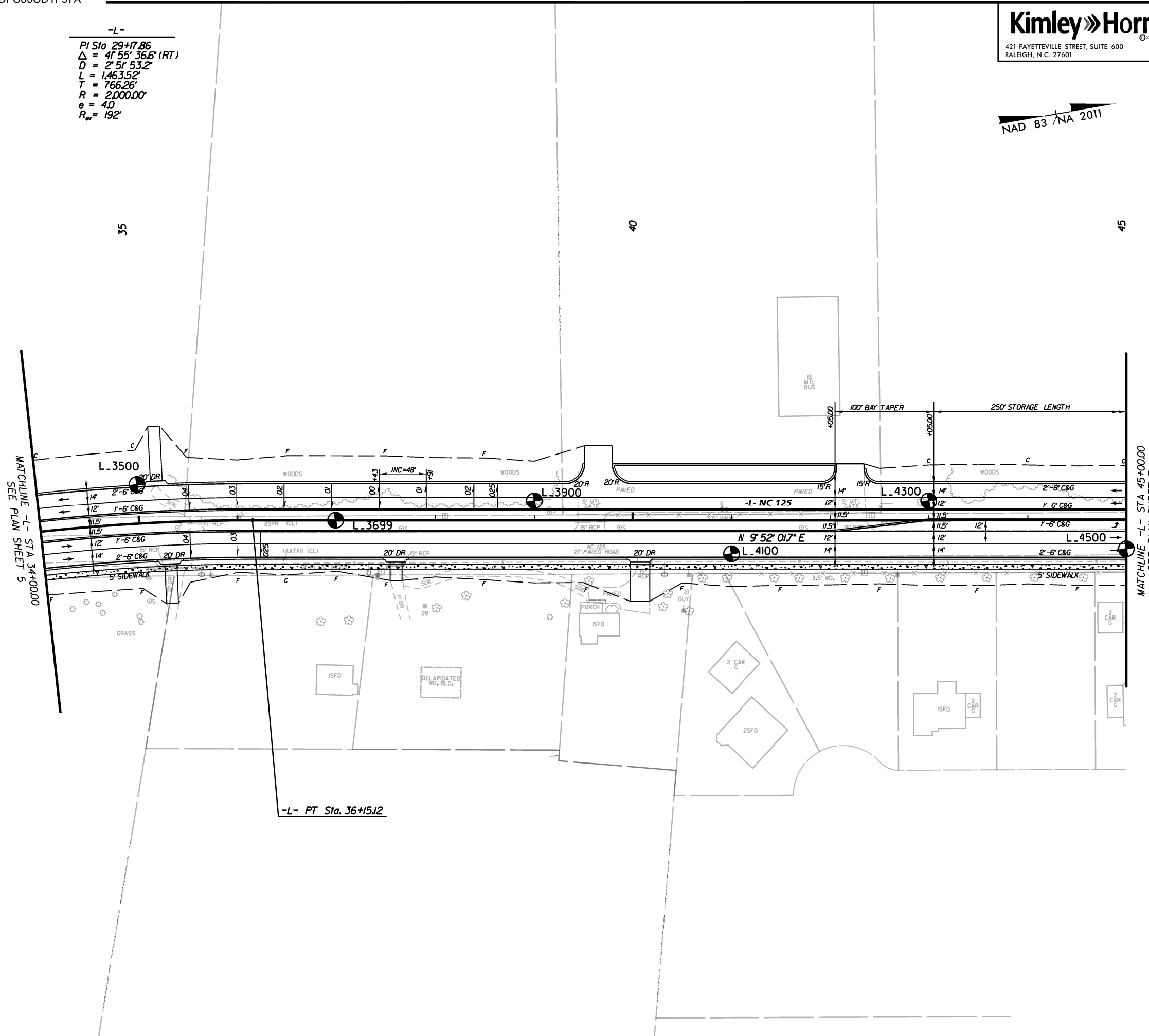
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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

-L-
 PI Sta 29+17.86
 $\Delta = 4^{\circ} 55' 36.6" (RT)$
 $D = 2^{\circ} 51' 53.2"$
 $L = 1,463.52'$
 $T = 766.26'$
 $R = 2,000.00'$
 $e = 4.0'$
 $R_w = 192'$

REVISIONS



-L- PT Sta. 36+15J2

SEE SHEET NO. 21 FOR -L- PROFILE

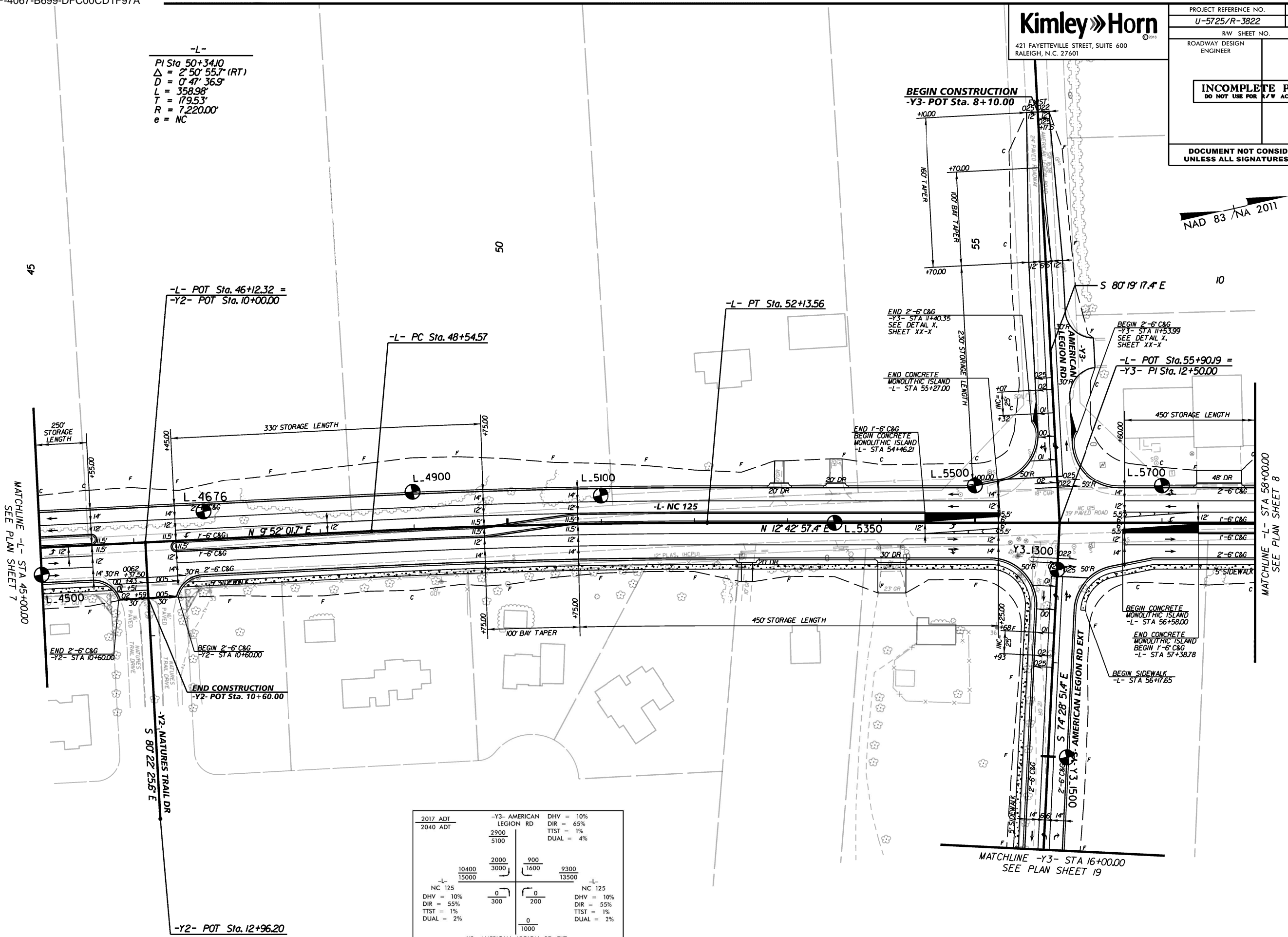
\$DATE\$

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L-
PI Sta 50+34.10
Δ = 2° 50' 55.7" (RT)
D = 0° 47' 36.9"
L = 358.98'
T = 179.53'
R = 7,220.00'
e = NC

2017 ADT 2040 ADT	-Y3- AMERICAN LEGIION RD	DHV = 10% DIR = 65% TTST = 1% DUAL = 4%
10400 15000	2000 3000	900 1600
-L- NC 125	0 300	0 200
DHV = 10% DIR = 55% TTST = 1% DUAL = 2%		DHV = 10% DIR = 55% TTST = 1% DUAL = 2%
	-Y3- AMERICAN LEGIION RD EXT	DHV = 10% DIR = 55% TTST = 1% DUAL = 2%

REVISIONS

\$DATE\$

SEE SHEET NO. 21 FOR -L- PROFILE
SEE SHEET NO. 28 FOR -Y2- PROFILE
SEE SHEET NO. 28 FOR -Y3- PROFILE

5/14/99

-L-
PI Sta 66+10.81
 $\Delta = 0^\circ 49' 23.0" (LT)$
 $D = 0^\circ 40' 26.6"$
 $L = 122.10'$
 $T = 61.05'$
 $R = 8,500.00'$
 $e = NC$

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PROJECT REFERENCE NO. SHEET NO.

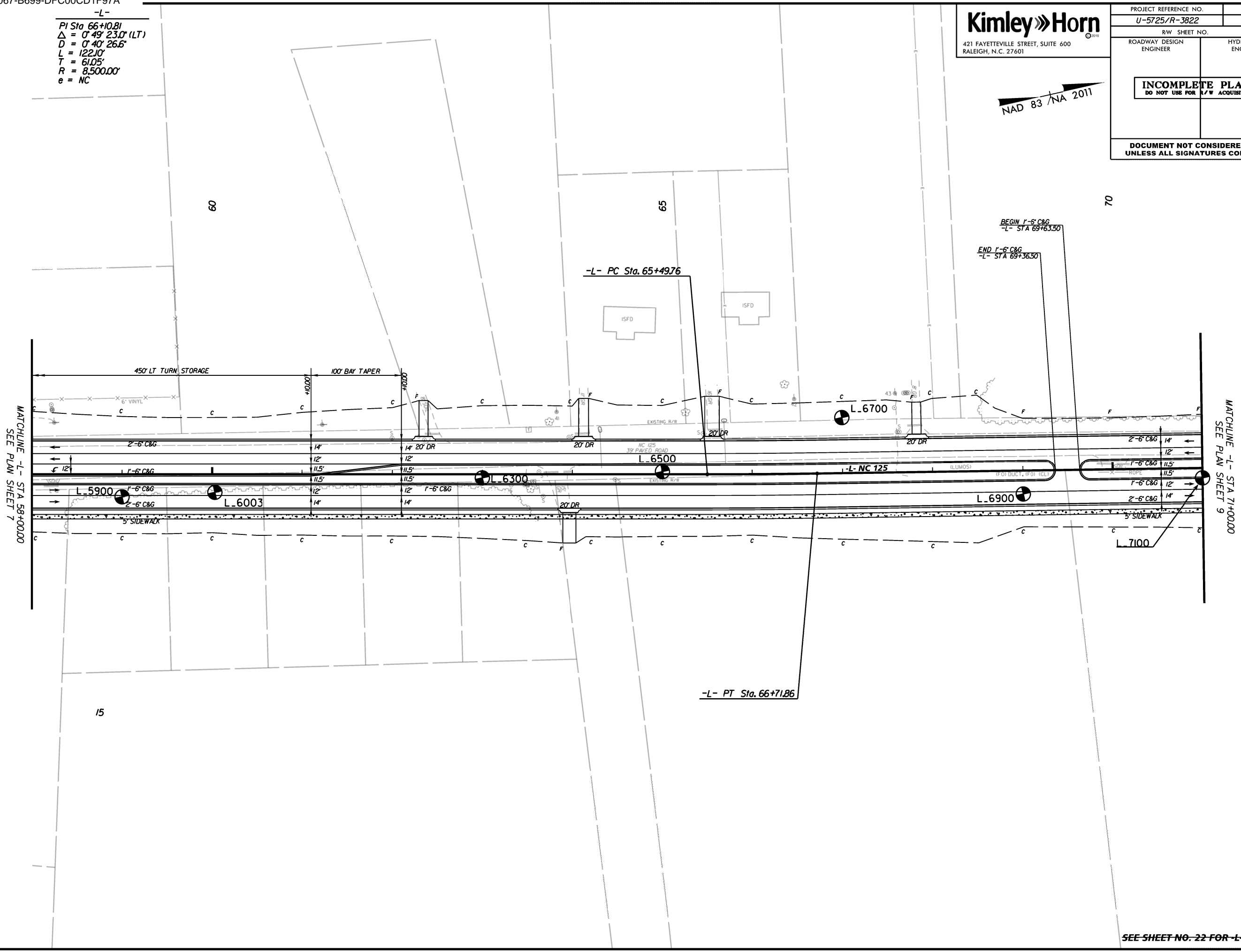
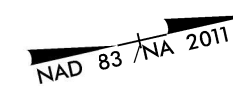
U-5725/R-3822 8

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS

MATCHLINE -L- STA 58+00.00
SEE PLAN SHEET 7

MATCHLINE -L- STA 71+00.00
SEE PLAN SHEET 9

\$DATE\$

SEE SHEET NO. 22 FOR -L- PROFILE

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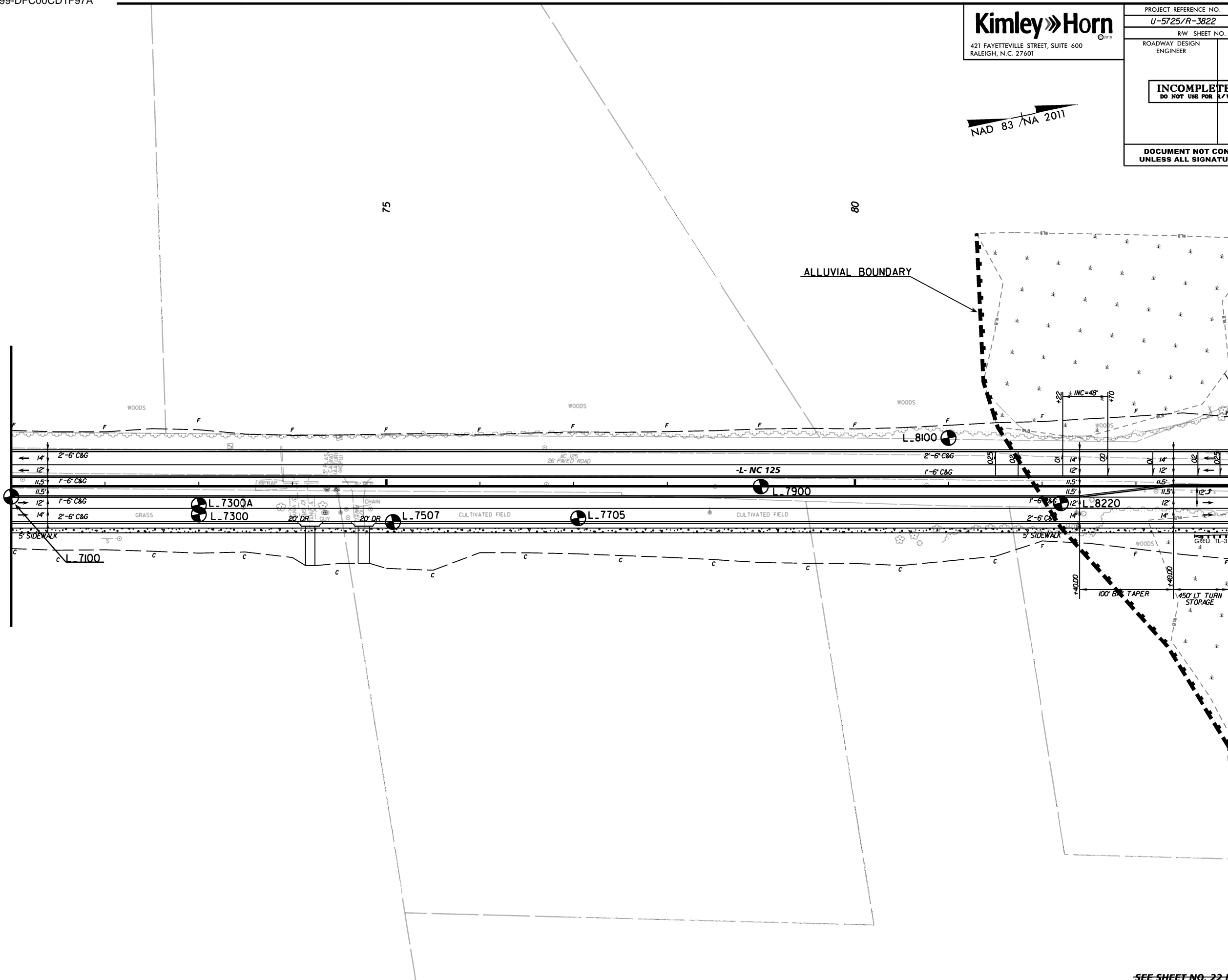
PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / N.A. 2011

REVISIONS

MATCHLINE -L- STA 71+00.00
SEE PLAN SHEET 8

MATCHLINE -L- STA 84+00.00
SEE PLAN SHEET 10



\$DATE\$

SEE SHEET NO. 22 FOR -L- PROFILE

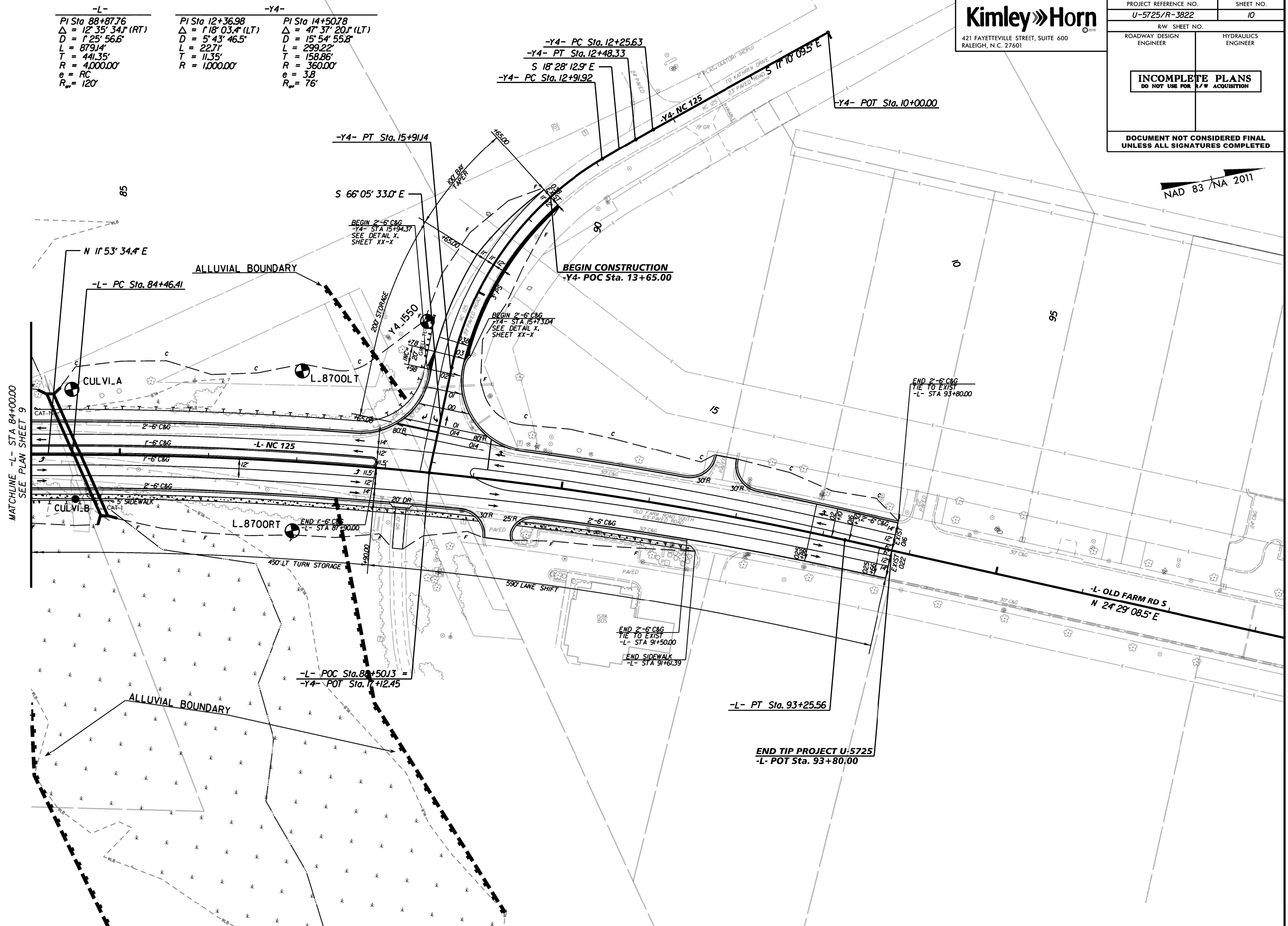
5/14/98

-L-	-Y4-	-Y4-
PI Sta 88+87.76	PI Sta 12+36.98	PI Sta 14+50.78
$\Delta = 12^\circ 35' 34.1$ (RT)	$\Delta = 1^\circ 18' 03.4$ (LT)	$\Delta = 47^\circ 37' 20.1$ (LT)
D = 1' 25' 56.6"	D = 5' 43' 46.5"	D = 15' 54' 55.8"
L = 879.14'	L = 22.71'	L = 299.22'
T = 441.35'	T = 11.35'	T = 158.86'
R = 4,000.00'	R = 1,000.00'	R = 360.00'
e = RC		e = 3.8
R _{min} = 120'		R _{min} = 76'

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / N.A. 2011



REVISIONS

\$DATE\$

5/14/98

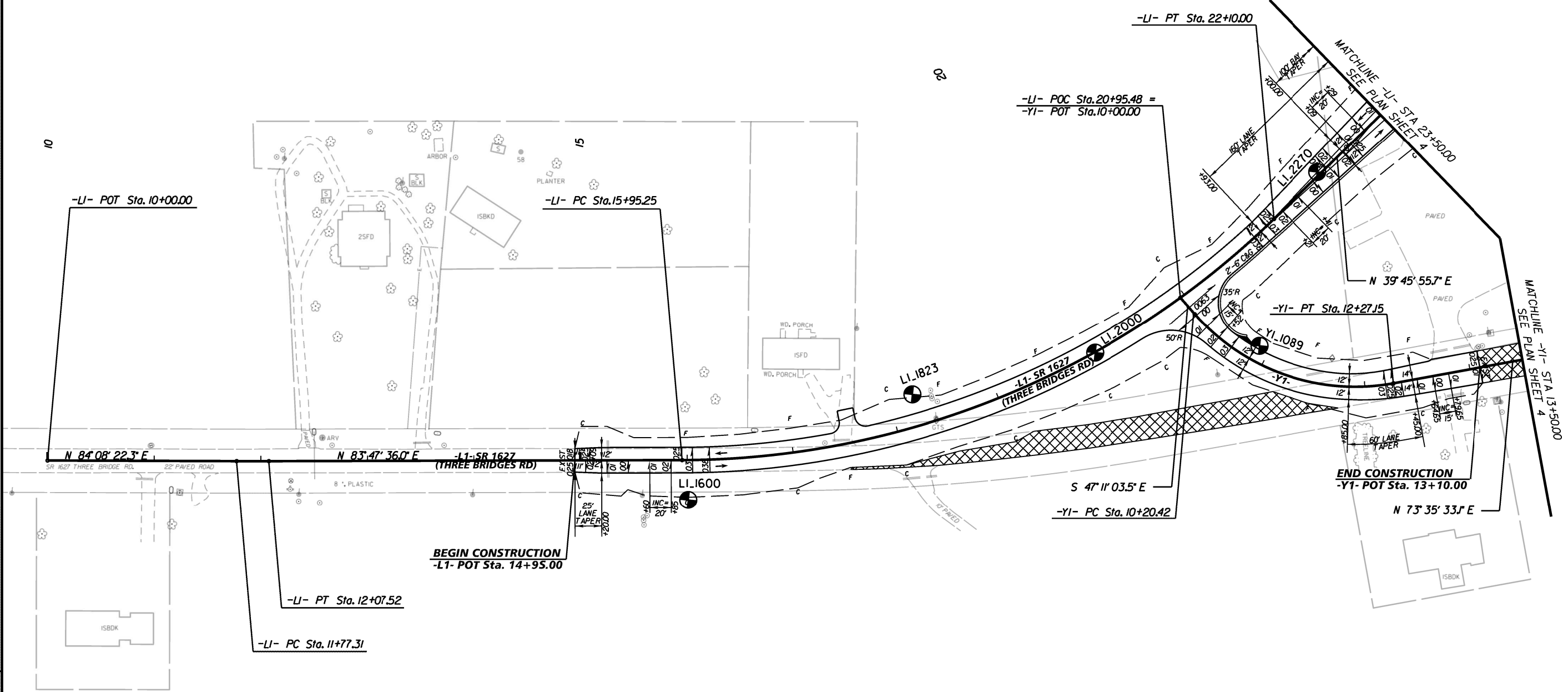
-LI-		-YI-	
PI Sta 11+92.42	PI Sta 19+18.70	PI Sta 11+34.09	
$\Delta = 0' 20' 46.2" (LT)$	$\Delta = 44' 01' 40.4" (LT)$	$\Delta = 59' 13' 23.4" (LT)$	
$D = 1' 08' 45.3"$	$D = 7' 09' 43.1"$	$D = 28' 38' 52.4"$	
$L = 30.21'$	$L = 614.75'$	$L = 206.73'$	
$T = 15.10'$	$T = 323.45'$	$T = 113.67'$	
$R = 5,000.00'$	$R = 800.00'$	$R = 200.00'$	
	$e = 3.8$	$e = 3.0$	
	$R_{min} = 76'$	$R_{min} = 15'$	

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 11
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

REVISIONS



\$DATE\$

SEE SHEET NO. 23 FOR -L1- PROFILE
 SEE SHEET NO. 27 FOR -Y1- PROFILE

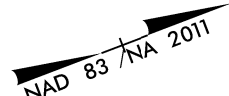
5/14/99

-L1-
 PI Sta 31+76.35
 $\Delta = 32^{\circ}06'43.9"$ (LT)
 $D = 5^{\circ}43'46.5"$
 $L = 560.46'$
 $T = 287.81'$
 $R = 1,000.00'$
 $e = 3.6$
 $R_w = 108'$

-Y5-
 PI Sta 11+75.62
 $\Delta = 18^{\circ}53'27.6"$ (LT)
 $D = 7^{\circ}09'43.1"$
 $L = 263.77'$
 $T = 133.09'$
 $R = 800.00'$
 $e = 3.0$
 $R_w = 69'$

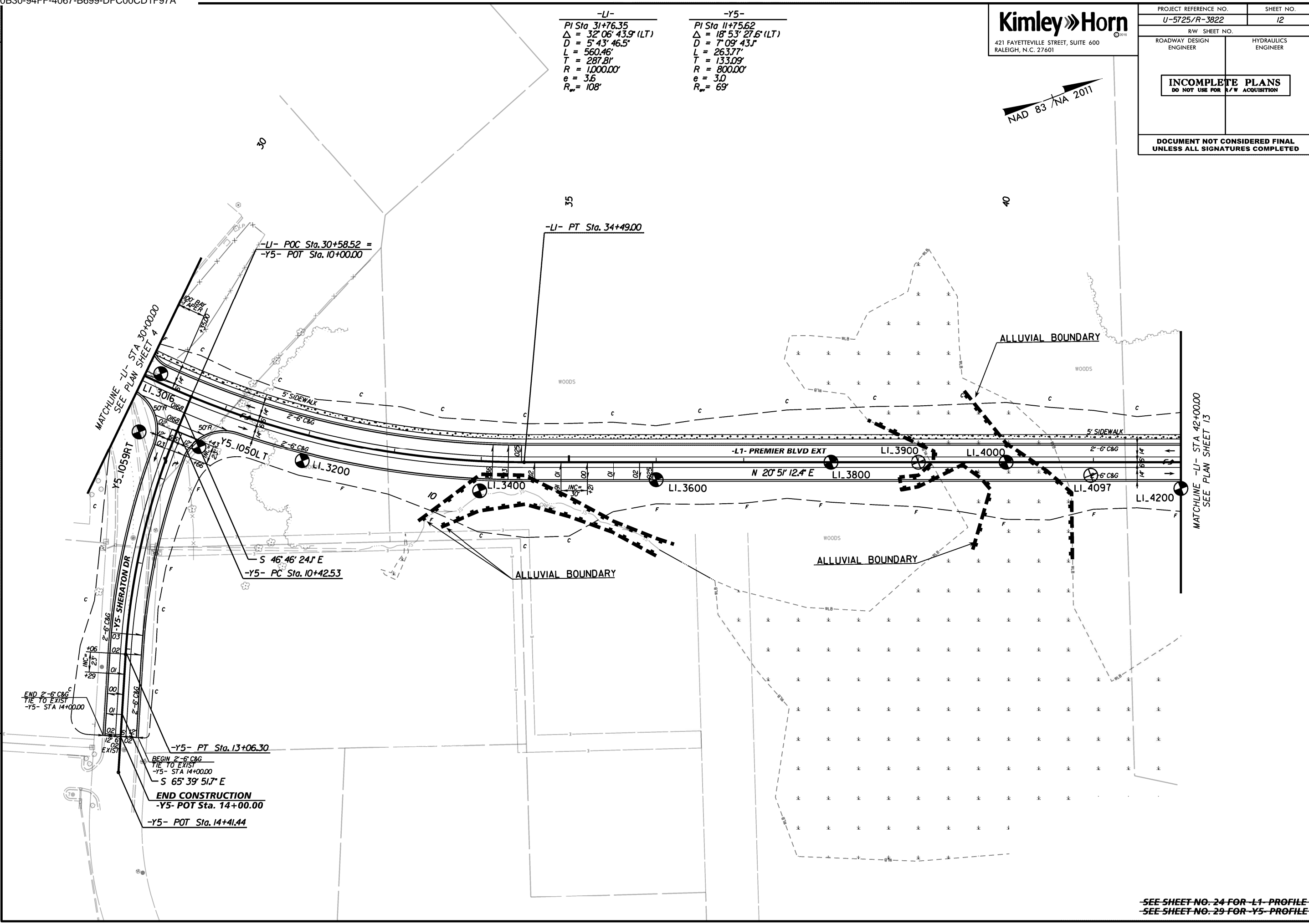


PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

\$DATE\$



SEE SHEET NO. 24 FOR L1 PROFILE
 SEE SHEET NO. 29 FOR Y5 PROFILE

5/14/98

-LI-
 PI Sta 55+85.50
 $\Delta = 13^\circ 41' 29.0''$ (RT)
 $D = 102' 30.3''$
 $L = 1,314.28'$
 $T = 660.28'$
 $R = 5,500.00'$
 $e = NC$

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

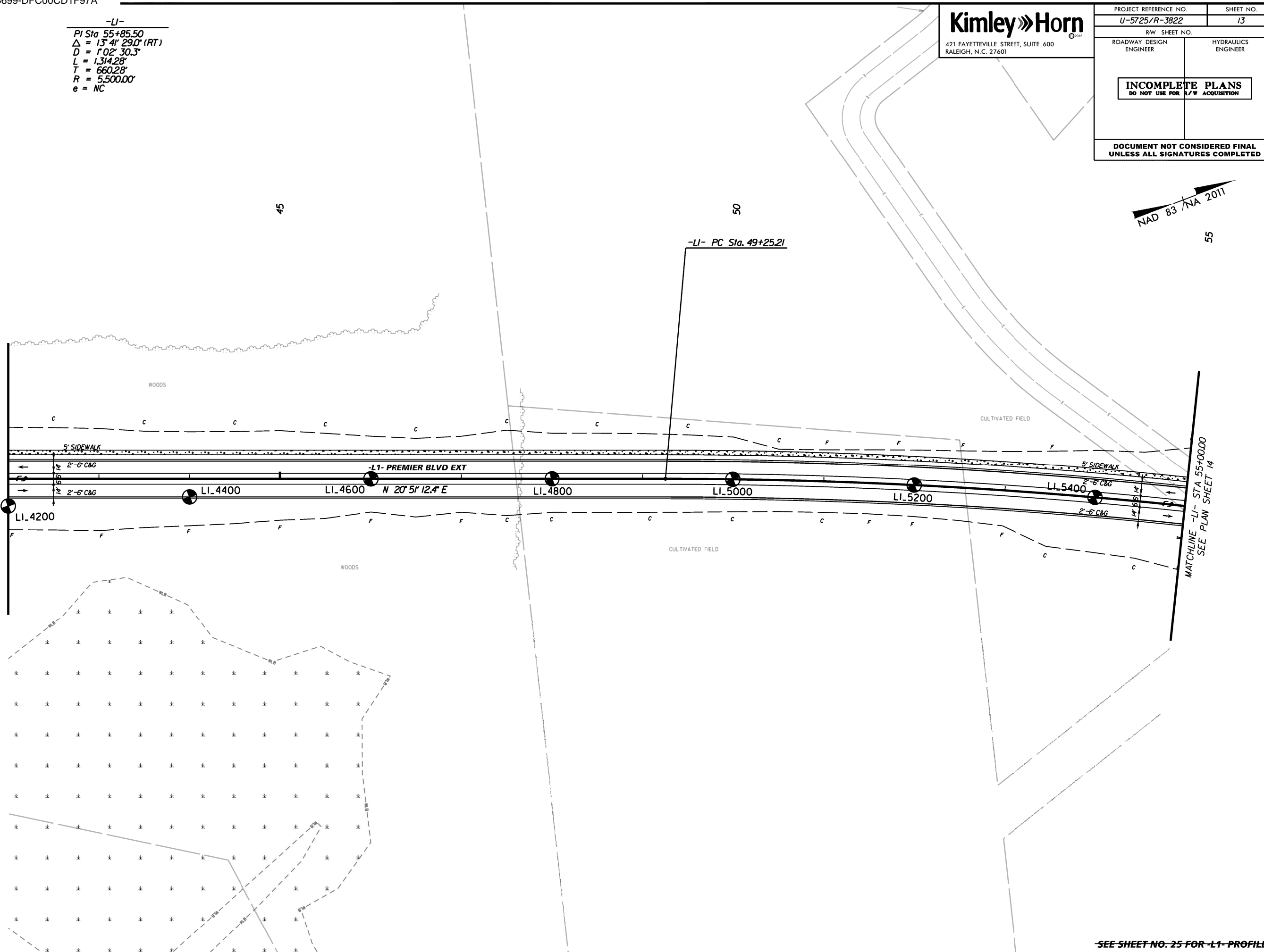


55

REVISIONS

MATCHLINE -LI- STA 42+00.00
SEE PLAN SHEET 12

MATCHLINE -LI- STA 55+00.00
SEE PLAN SHEET 14



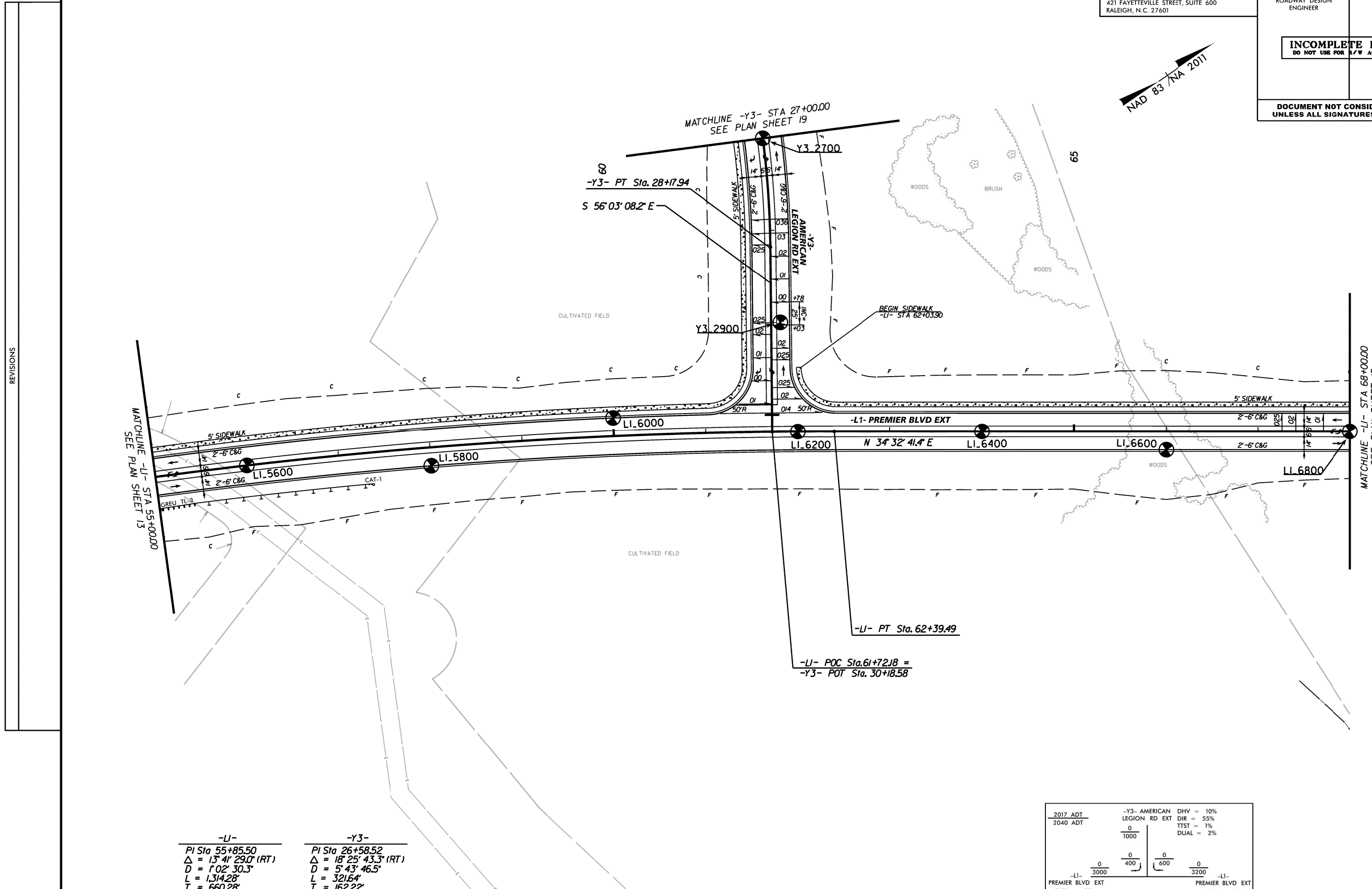
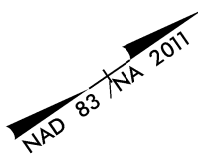
SEE SHEET NO. 25 FOR -L1- PROFILE

\$DATE\$

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

\$DATE\$

-L1-

PI Sta 55+85.50
$\Delta = 13^{\circ} 41' 29.0"$ (RT)
$D = 1^{\circ} 02' 30.3"$
$L = 1,314.28'$
$T = 660.28'$
$R = 5,500.00'$
$e = NC$

-Y3-

PI Sta 26+58.52
$\Delta = 18^{\circ} 25' 43.3"$ (RT)
$D = 5^{\circ} 43' 46.5"$
$L = 321.64'$
$T = 162.22'$
$R = 1,000.00'$
$e = 3.6$
$R_{min} = 90'$

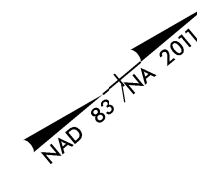
2017 ADT 2040 ADT	-Y3- AMERICAN LEGION RD EXT	DHV = 10% DIR = 55% TTST = 1% DUAL = 2%
0 0	0 0	
3000	400	
	600	
	3200	
-L1- PREMIER BLVD EXT		-L1- PREMIER BLVD EXT
DHV = 8% DIR = 60% TTST = 1% DUAL = 2%		DHV = 8% DIR = 55% TTST = 1% DUAL = 2%

SEE SHEET NO. 25 FOR L1 PROFILE
SEE SHEET NO. 29 FOR Y3 PROFILE

5/14/98

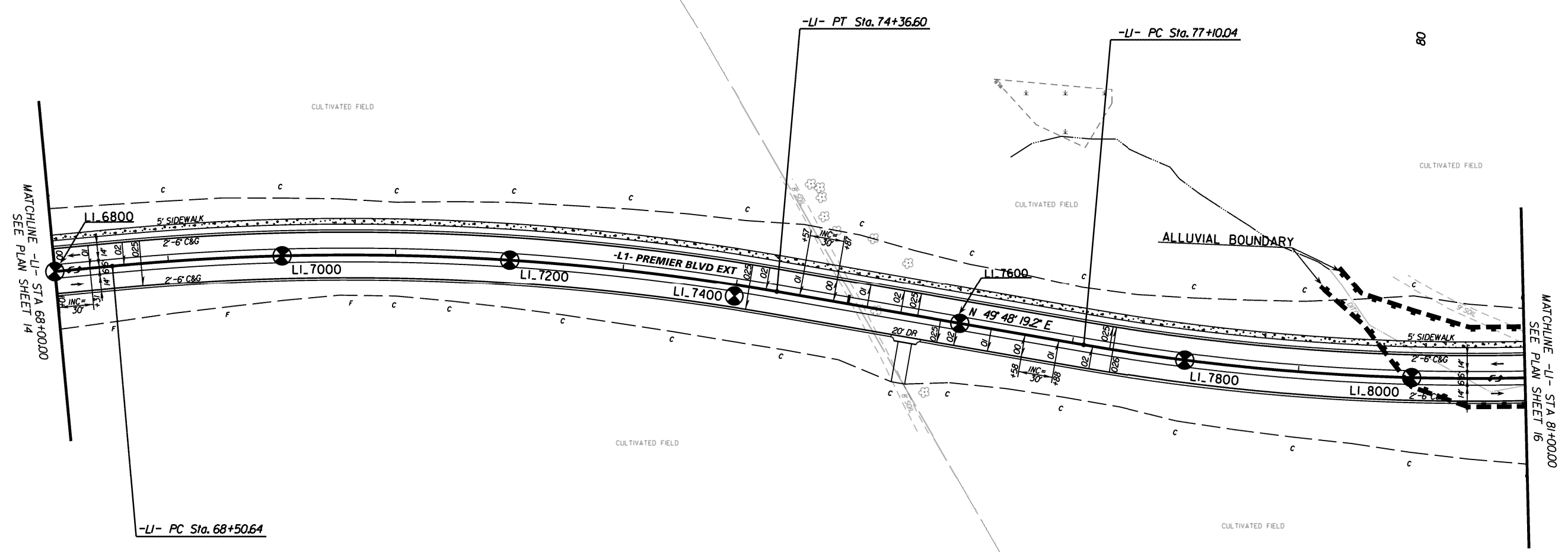
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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-LI-	
PI Sta 71+45.37	PI Sta 85+81.84
$\Delta = 15' 15' 37.8''$ (RT)	$\Delta = 47' 06' 17.6''$ (LT)
$D = 2' 36' 15.7''$	$D = 2' 51' 53.2''$
$L = 585.96'$	$L = 1644.27'$
$T = 294.72'$	$T = 871.80'$
$R = 2,200.00'$	$R = 2,000.00'$
$e = RC$	$e = 2.5$
$R_{min} = 75'$	$R_{min} = 78'$

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SEE SHEET NO. 26 FOR L1 PROFILE

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PROJECT REFERENCE NO. SHEET NO.

U-5725/R-3822 16

RW SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

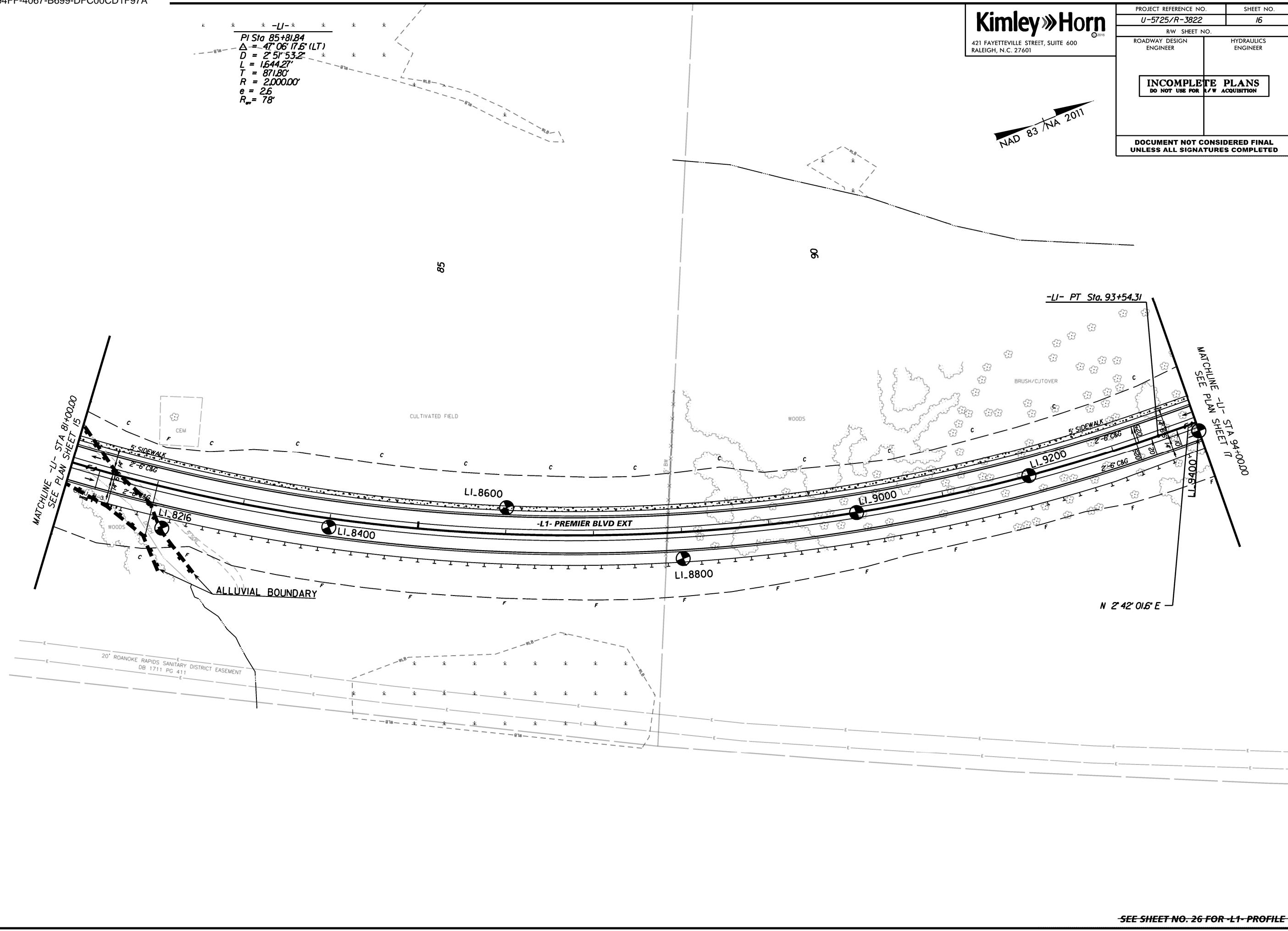
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PI Sta 85+81.84
 $\Delta = 47^{\circ} 06' 17.6" (LT)$
 $D = 2' 51" 53.2"$
 $L = 1644.27'$
 $T = 871.80'$
 $R = 2,000.00'$
 $e = 2.5$
 $R_m = 78'$



REVISIONS



\$DATE\$

SEE SHEET NO. 26 FOR -L1- PROFILE

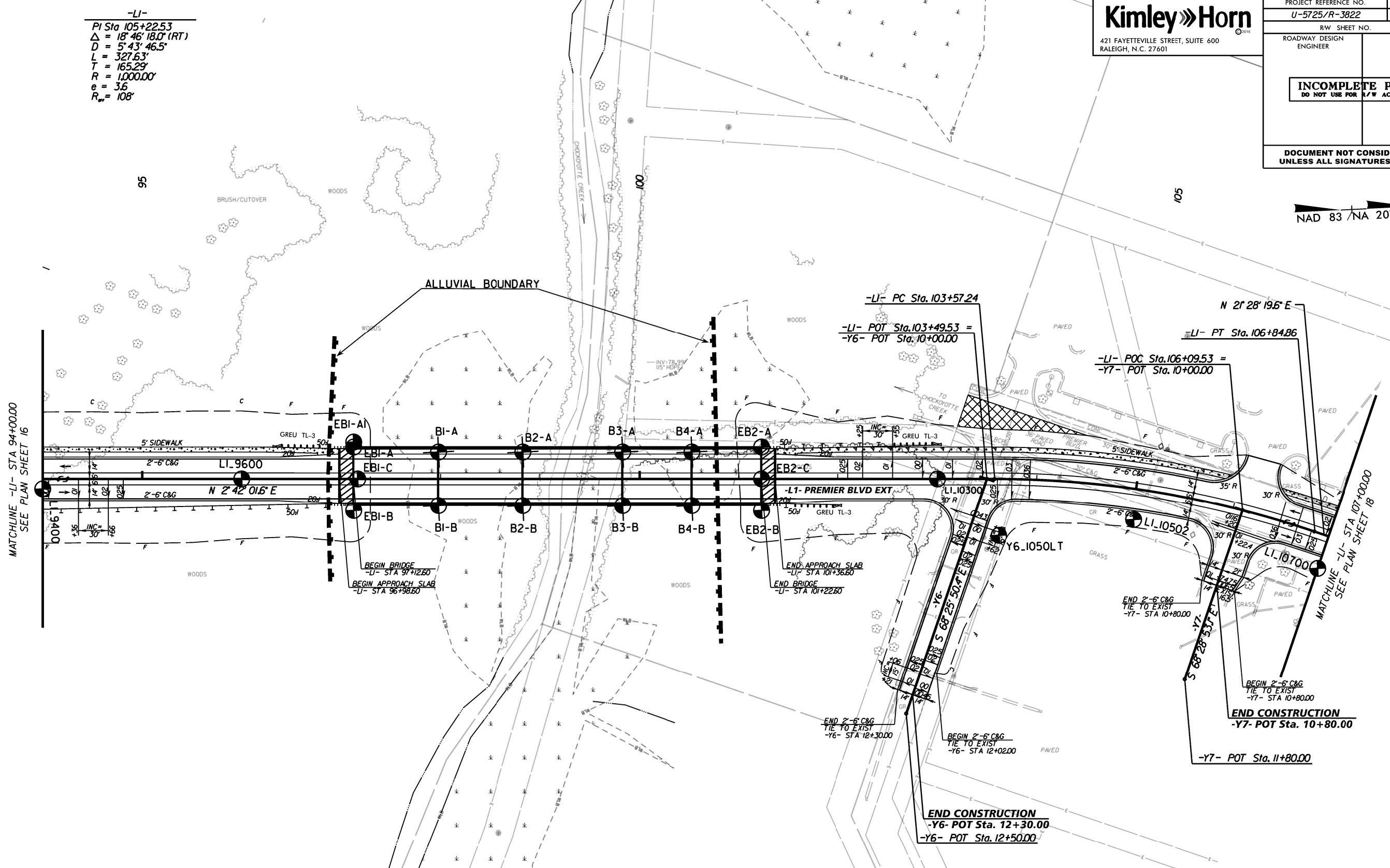
5/14/99

-LI-
 PI Sta 105+22.53
 $\Delta = 18' 46' 18.0''$ (RT)
 $D = 5' 43' 46.5''$
 $L = 327.63'$
 $T = 165.29'$
 $R = 1,000.00'$
 $e = 3.6$
 $R_m = 108'$

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 17
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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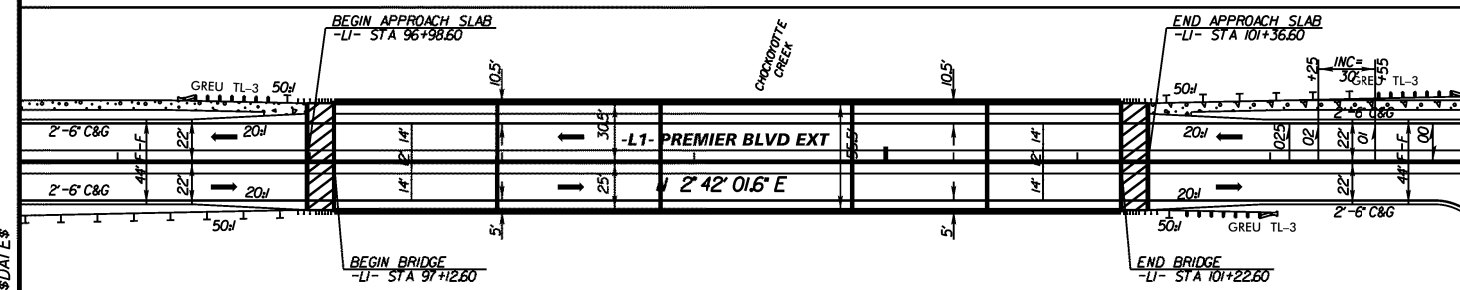


REVISIONS

MATCHLINE -LI- STA 94+00.00
 SEE PLAN SHEET 16

MATCHLINE -LI- STA 107+00.00
 SEE PLAN SHEET 18

SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP



SEE SHEET NO. 27 FOR -L1- PROFILE
 SEE SHEET NO. 29 FOR -Y6- PROFILE
 SEE SHEET NO. 29 FOR -Y7- PROFILE

5/14/99

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PROJECT REFERENCE NO. SHEET NO.

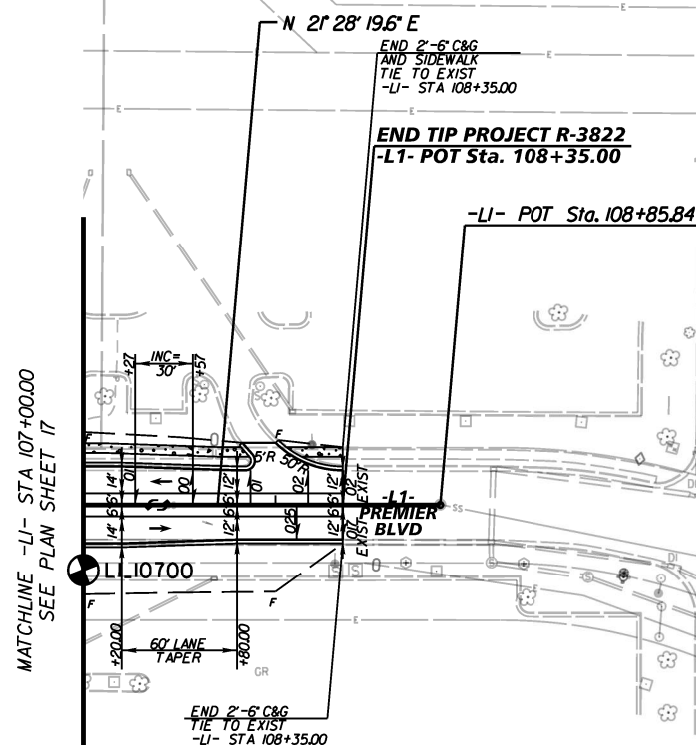
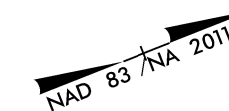
U-5725/R-3822 18

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS

MATCHLINE -L1- STA 107+00.00
SEE PLAN SHEET 17

±20.00
±80.00
60' LANE
TAPER

END 2'-6\"/>

END 2'-6\"/>

END TIP PROJECT R-3822
-L1- POT Sta. 108+35.00

-L1- POT Sta. 108+85.84

-L1-
PREMIER
BLVD

\$DATE\$

-SEE SHEET NO. 27 FOR L1 PROFILE-

5/14/99

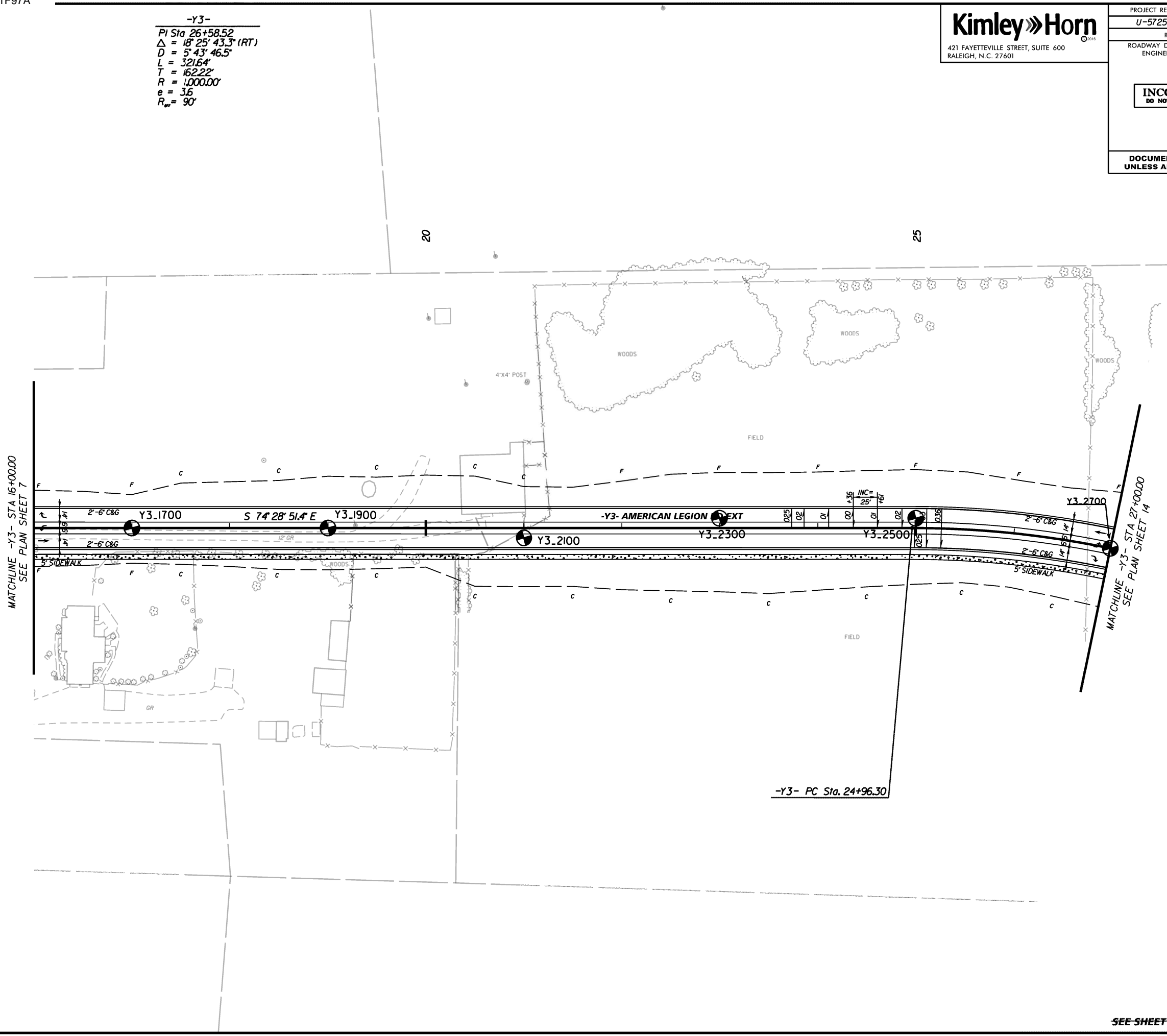
-Y3-
 PI Sta 26+58.52
 $\Delta = 18^\circ 25' 43.3" (RT)$
 $D = 5' 43" 46.5"$
 $L = 321.64'$
 $T = 162.22'$
 $R = 1,000.00'$
 $e = 3.6$
 $R_w = 90'$

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PROJECT REFERENCE NO. U-5725/R-3822	SHEET NO. 19
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

\$DATE\$



MATCHLINE -Y3- STA 16+00.00
SEE PLAN SHEET 7

MATCHLINE -Y3- STA 27+00.00
SEE PLAN SHEET 14

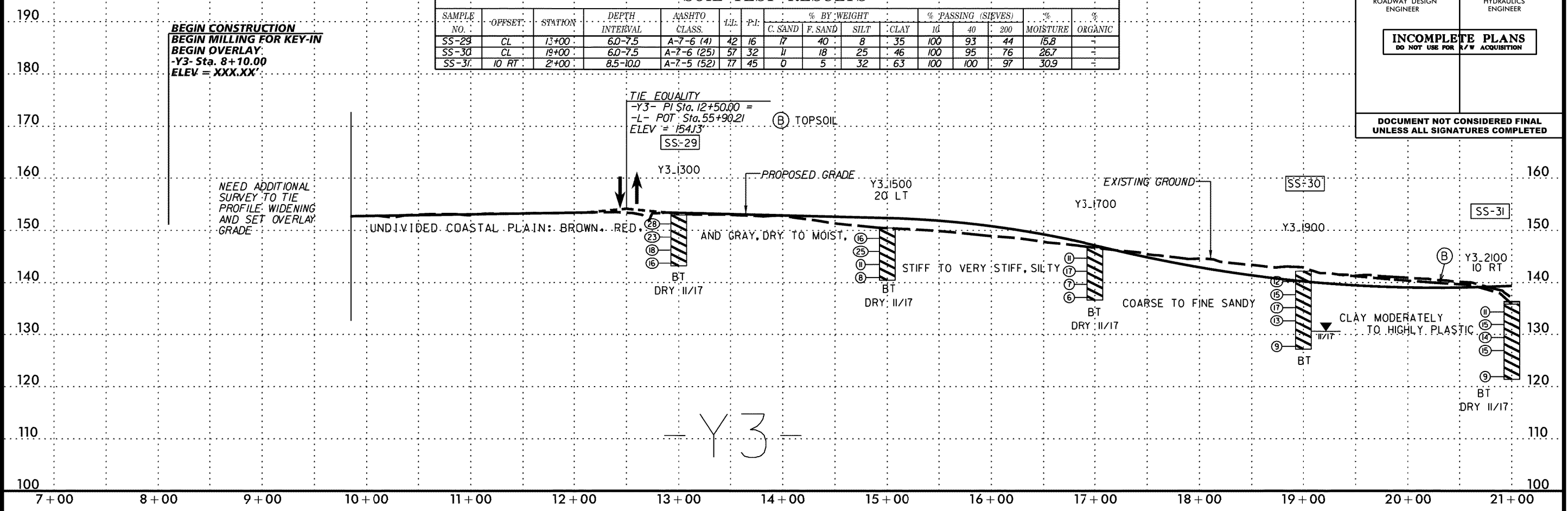
-Y3- PC Sta. 24+96.30

SEE SHEET NO. 28 FOR -Y3- PROFILE

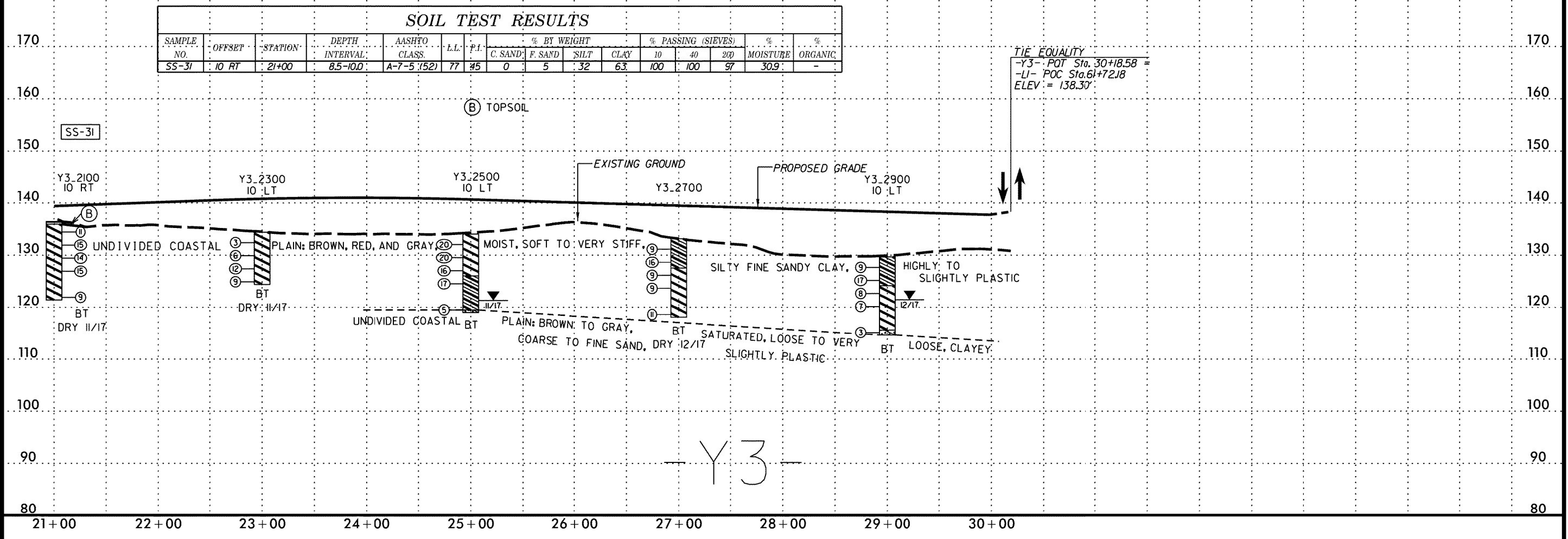
5/28/94

PROJECT REFERENCE NO. U-5725R-3822	SHEET NO. 20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

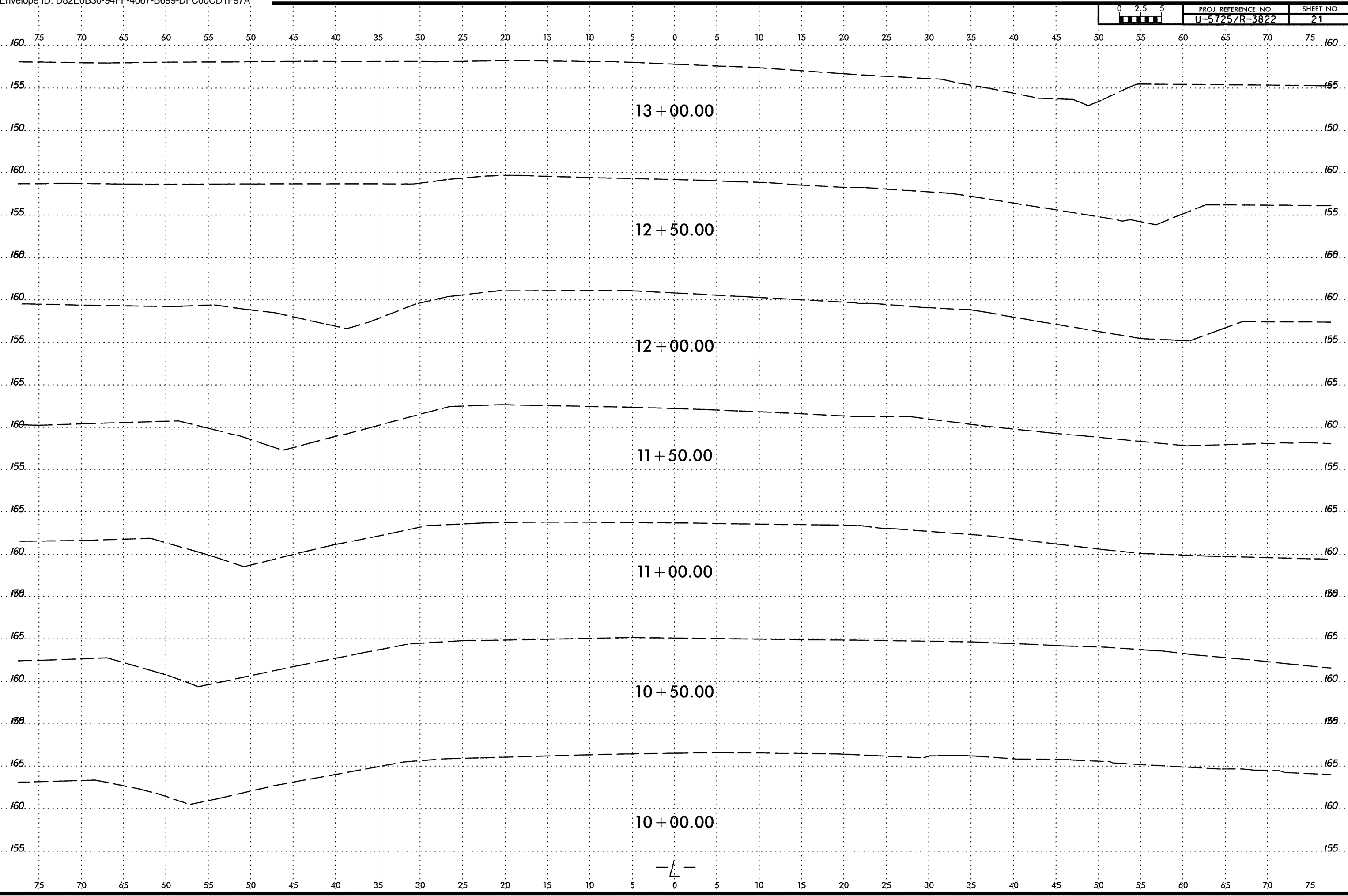
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-29	CL	13+00	6.0-7.5	A-7-6 (4)	42	16	17	40	8	35	100	93	44	15.8	-
SS-30	CL	19+00	6.0-7.5	A-7-6 (25)	57	32	11	18	25	46	100	95	76	26.7	-
SS-31	10 RT	21+00	8.5-10.0	A-7-5 (52)	77	45	0	5	32	63	100	100	97	30.9	-

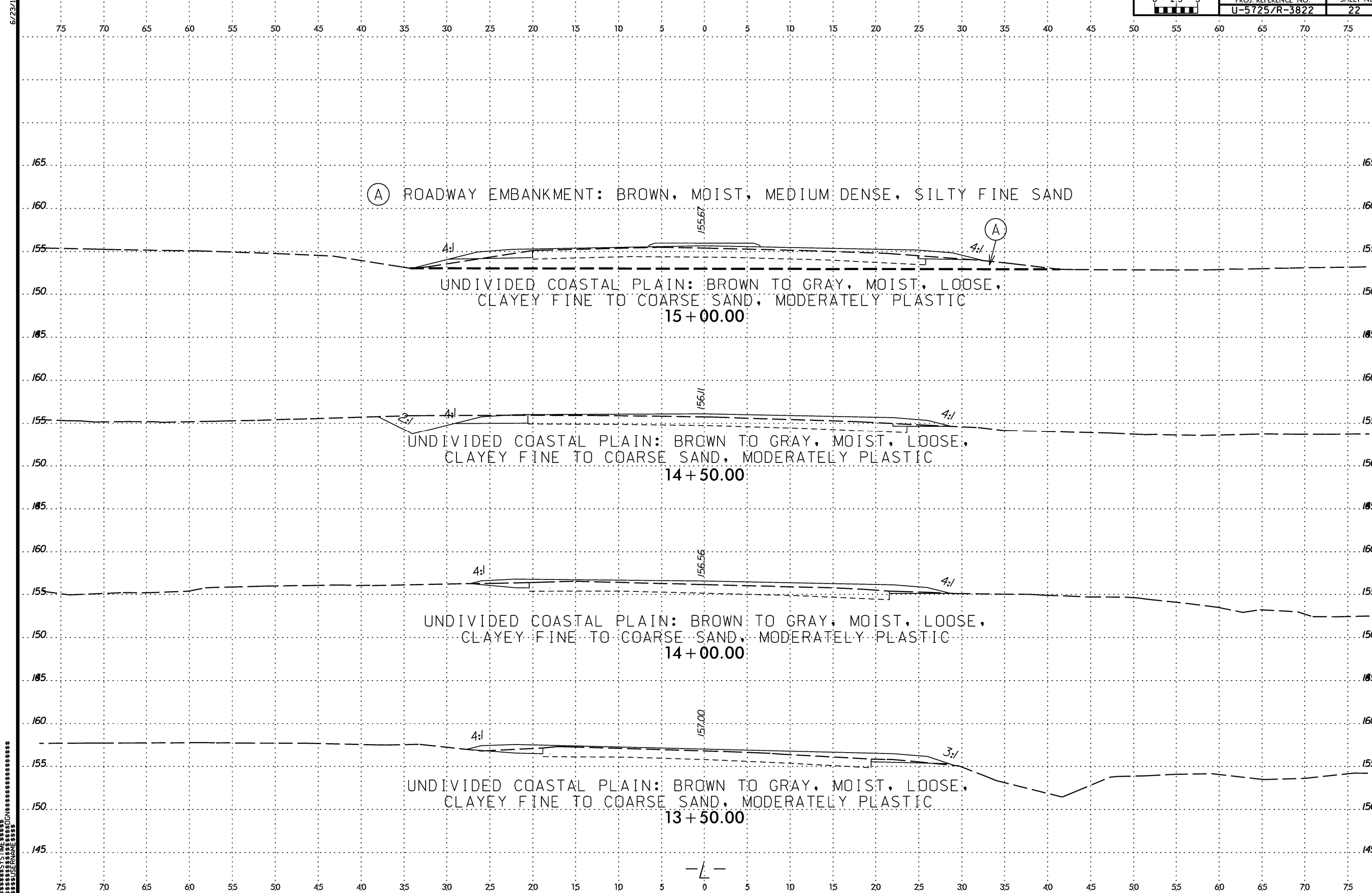


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-31	10 RT	21+00	8.5-10.0	A-7-5 (52)	77	45	0	5	32	63	100	100	97	30.9	-

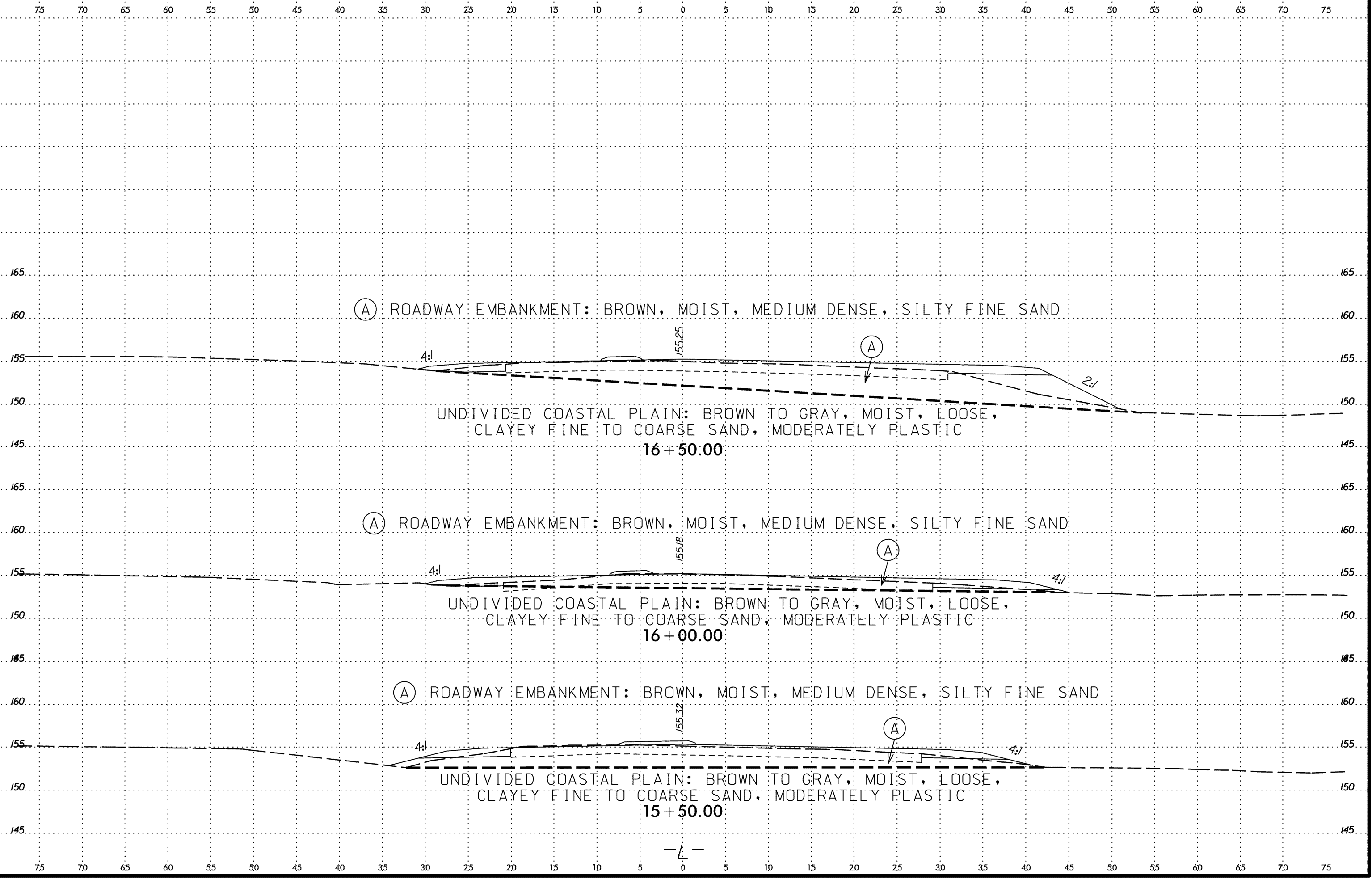


6/23/16
SYSTEM
SECTION
SUBNAME



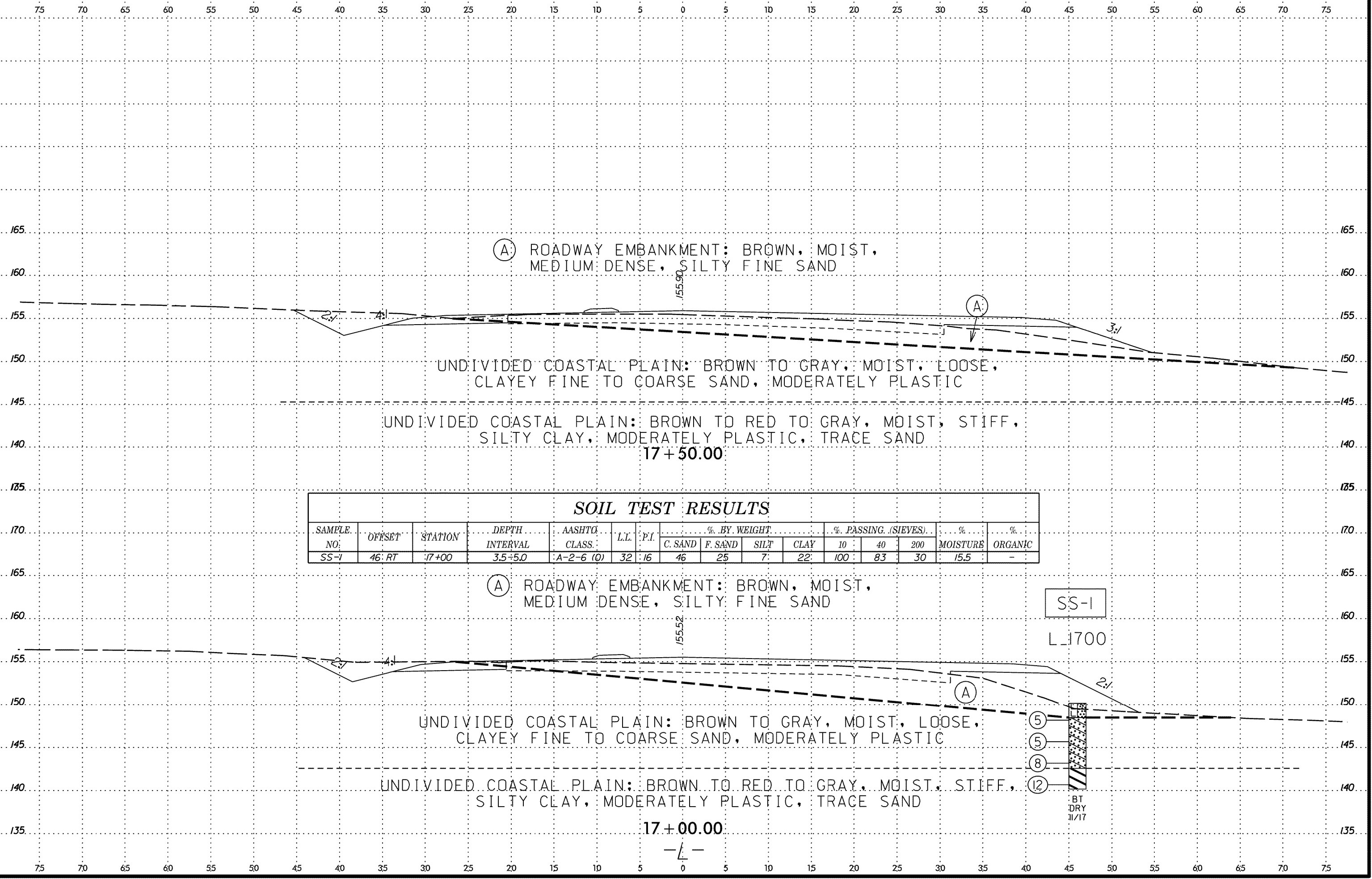


SYSTEM TIME
 DATE
 USER NAME



SYSTEM TIME

 USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, SILTY FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, MOIST, LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, STIFF, SILTY CLAY, MODERATELY PLASTIC, TRACE SAND

17+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	PI	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1	46: RT	17+00	3.5-5.0	A-2-6 (0)	32	16	46	25	7	22	100	83	30	15.5	-

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, SILTY FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, MOIST, LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, STIFF, SILTY CLAY, MODERATELY PLASTIC, TRACE SAND

17+00.00

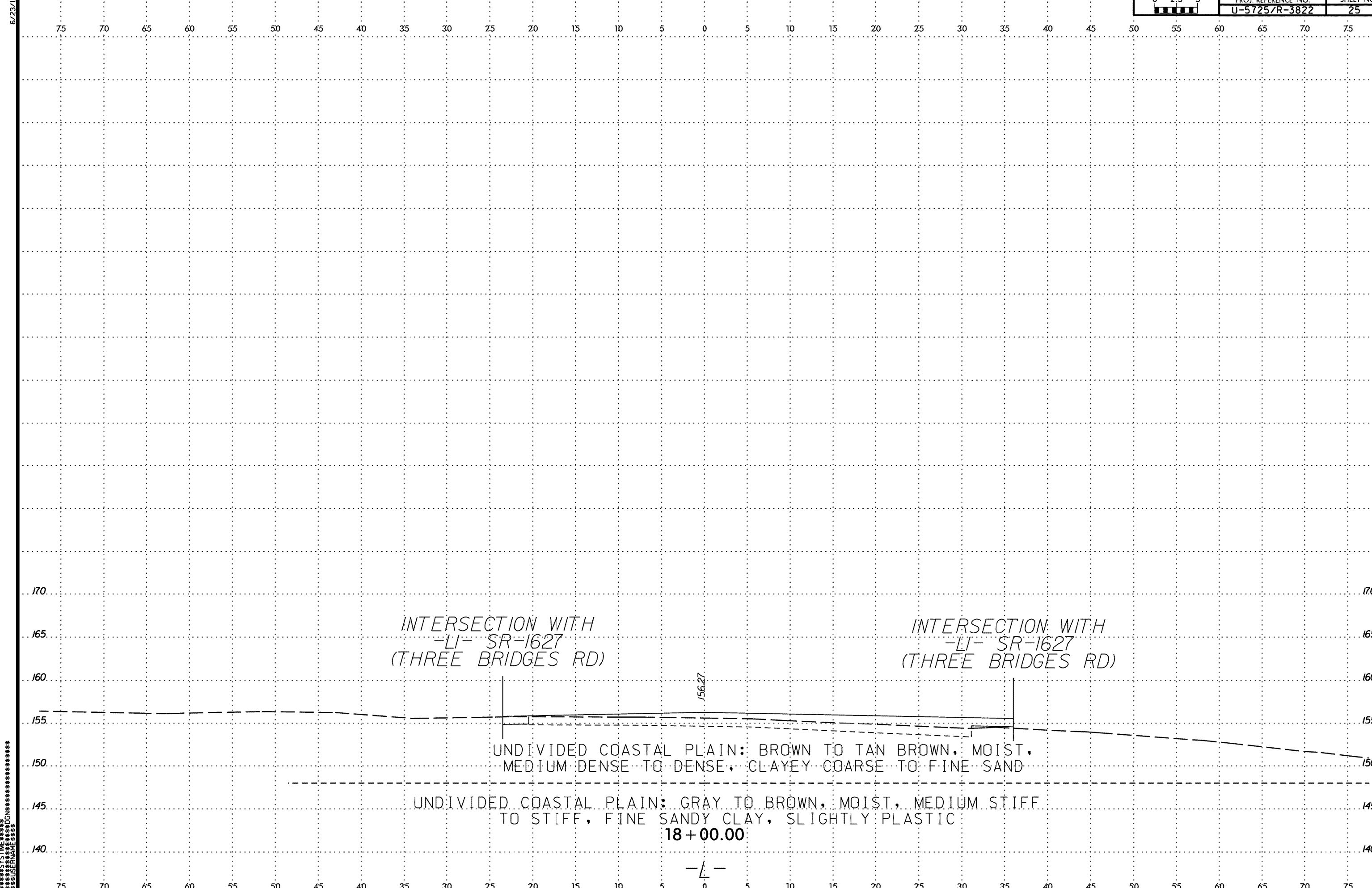
SS-1

L-1700

- 5
- 5
- 8
- 12

BT
 DRY
 11/17

SYSTEM TIME
 DATE
 USER NAME



SYSTEM TIME

 USER NAME

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	PI	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-18	50 LT	26+19	1.0-2.5	A-2-4 (0)	23	9	29	41	6	24	100	93	33	9.9	-

Note: Station and Offset are on -L-

- (A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND
- (B) TOPSOIL
- (1) ARTIFICIAL FILL: BROWN, MOIST, VERY LOOSE, SILTY COARSE TO FINE SAND

SS-18

LI 2619
18+71

(13)
(16)
(30)
(12)
BT
DRY
12/17

INTERSECTION WITH
-L- SR-1627
(THREE BRIDGES RD)

INTERSECTION WITH
-L- SR-1627
(THREE BRIDGES RD)

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST, MEDIUM DENSE TO DENSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST, MEDIUM STIFF TO STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

LI 2800
18+37

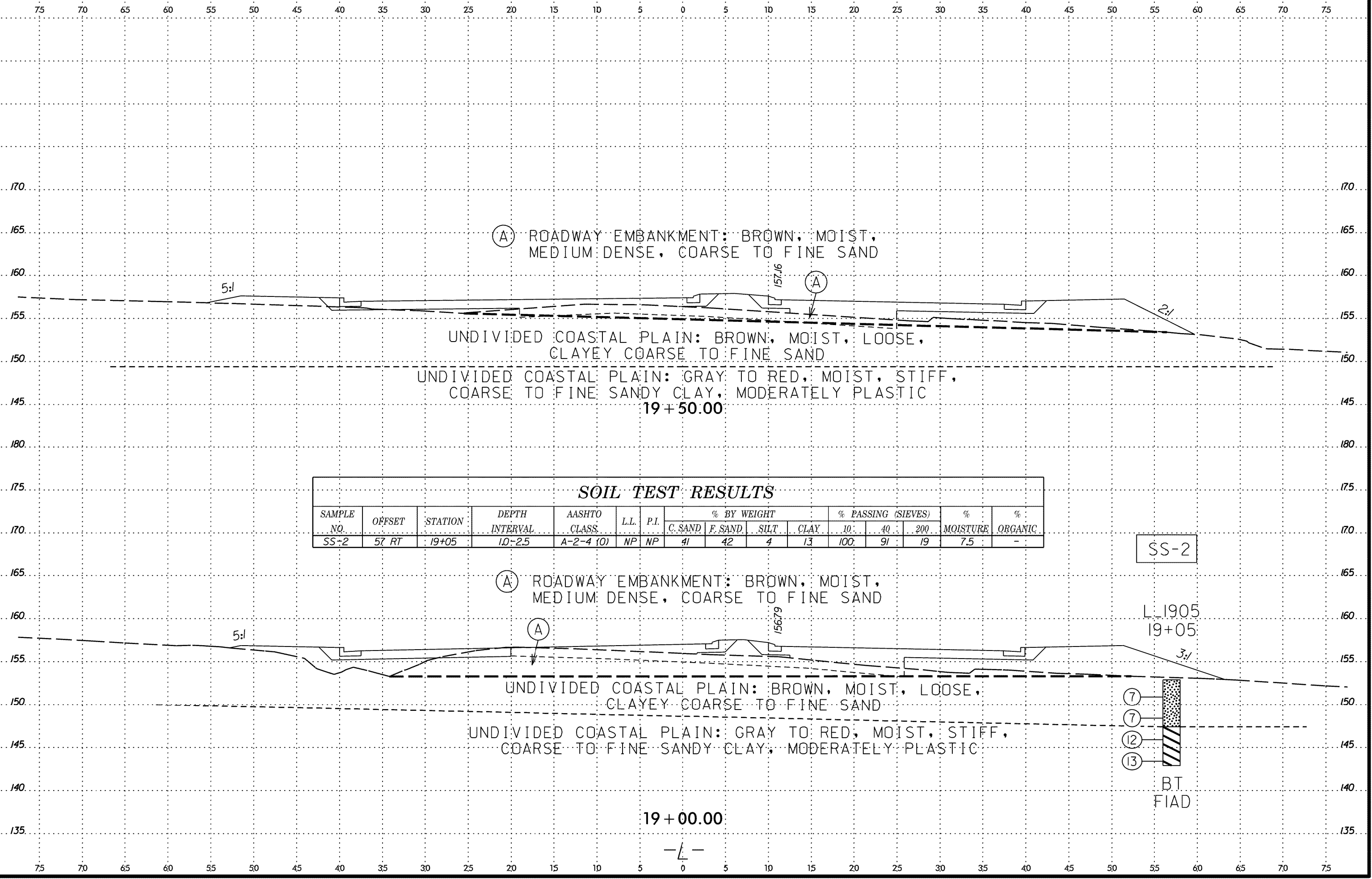
(3)
(5)
(8)
BT
DRY
12/17

18+50.00

-L-

 SYSTEM TIME *****

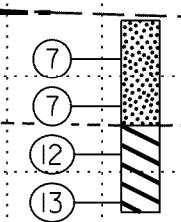
 USER NAME *****



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-2	57 RT	19+05	1.0-2.5	A-2-4 (0)	NP	NP	41	42	4	13	100	91	19	7.5	-

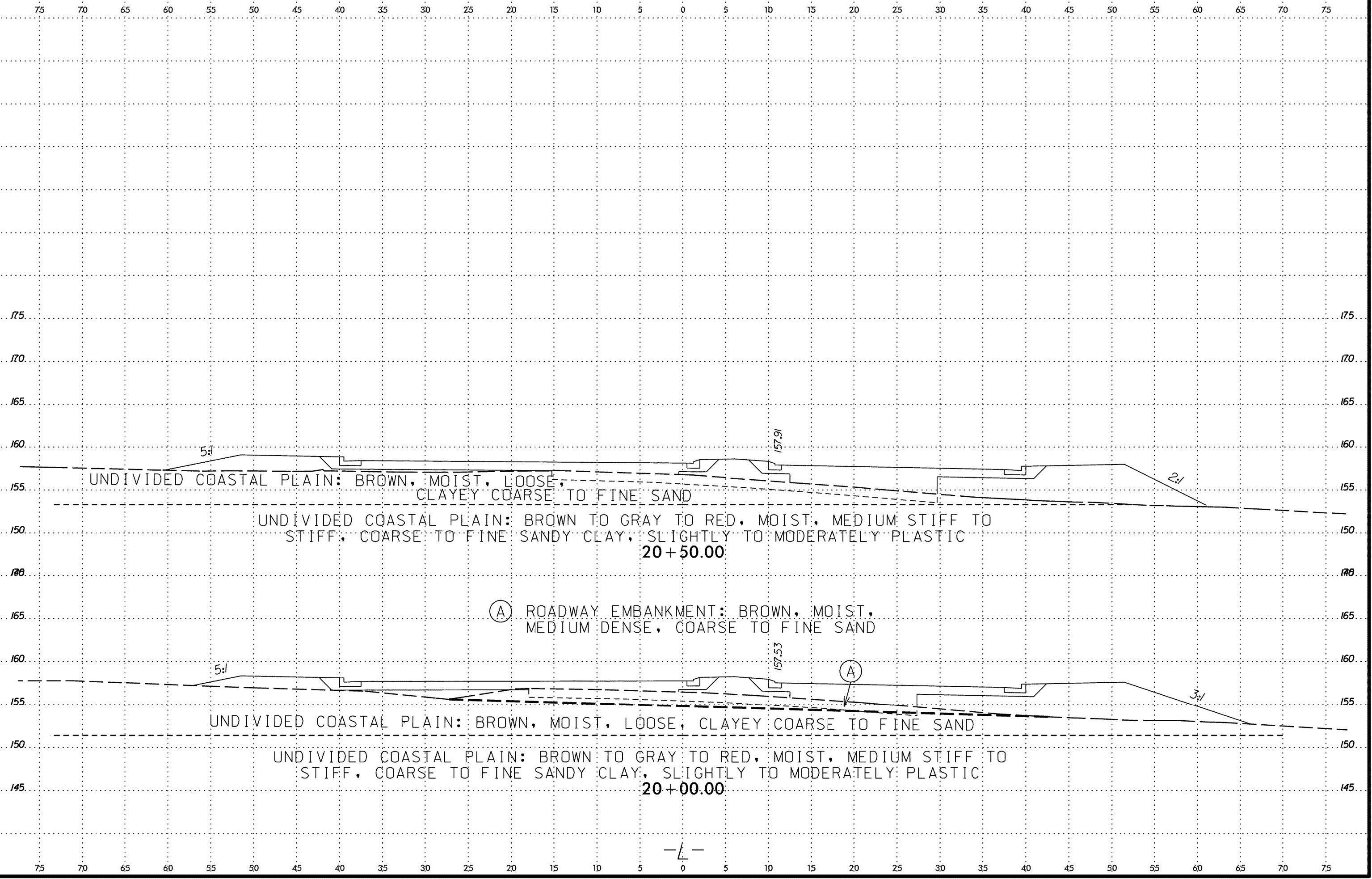
SS-2

L 1905
19+05



 SYSTEM TIME *****

 USER NAME *****



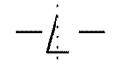
UNDIVIDED COASTAL PLAIN: BROWN, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
20+50.00

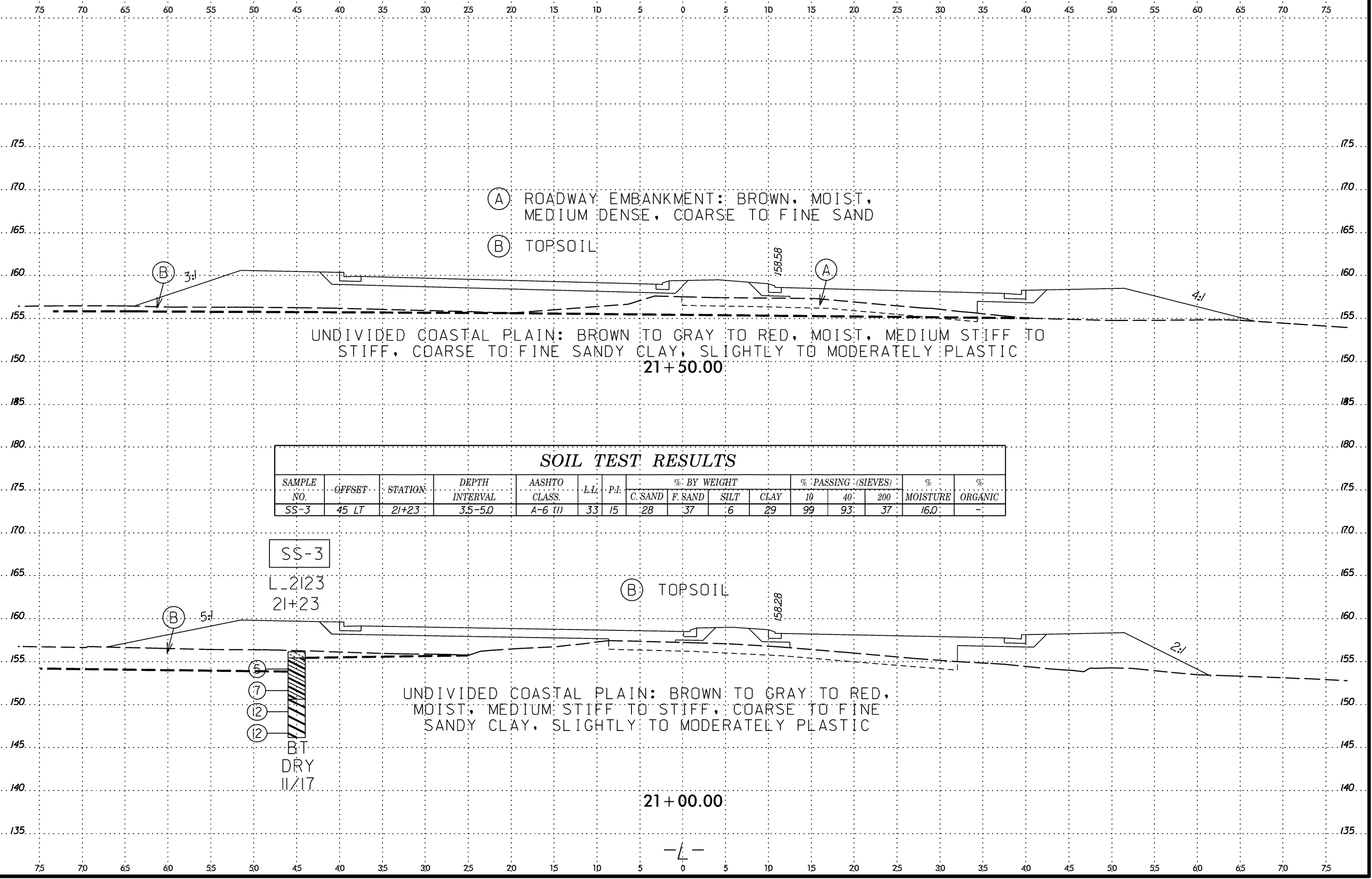
(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
20+00.00



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBSYSTEM: [unreadable]



- (A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND
- (B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
 21+50.00

SOIL TEST RESULTS

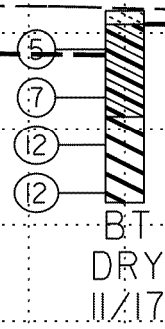
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-3	45 LT	21+23	3.5-5.0	A-6 (1)	33	15	28	37	6	29	99	93	37	16.0	-

SS-3

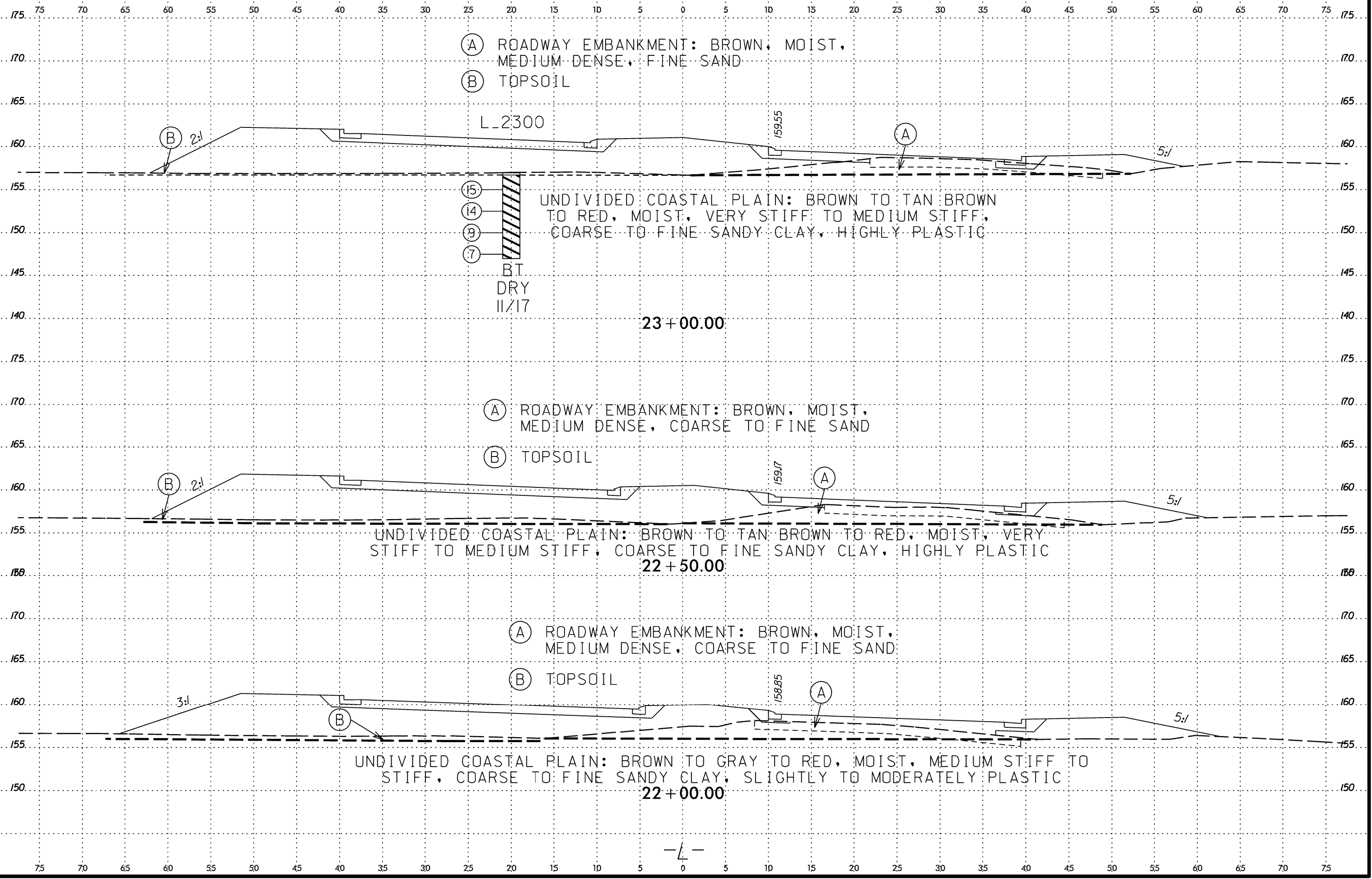
L_2123
 21+23

- (B) TOPSOIL

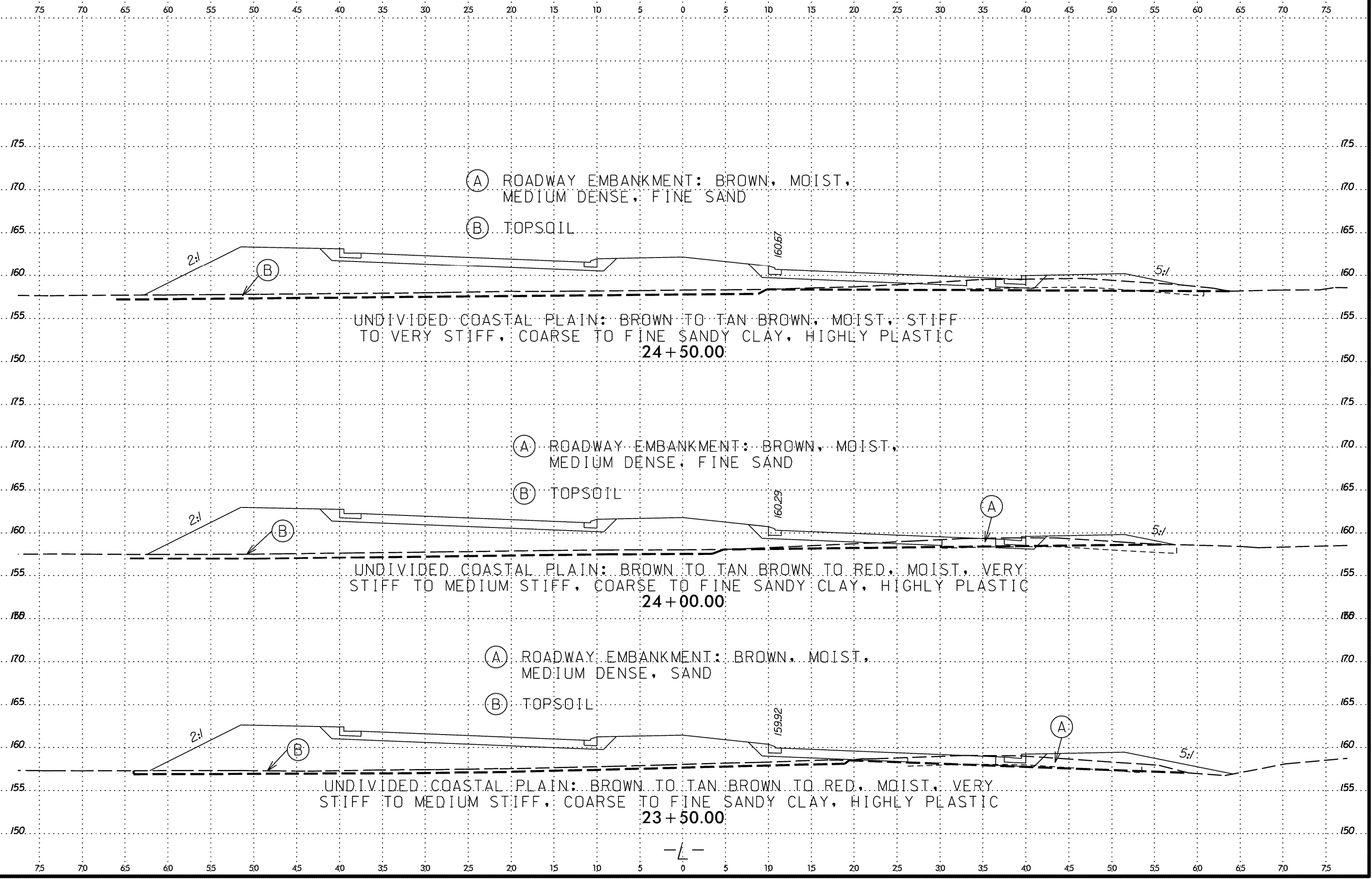
UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
 21+00.00



SYSTEM TIME
 USER NAME



SYSTEM TIME
 USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST, STIFF
TO VERY STIFF, COARSE TO FINE SANDY CLAY, HIGHLY PLASTIC
24+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

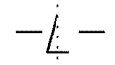
(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN TO RED, MOIST, VERY
STIFF TO MEDIUM STIFF, COARSE TO FINE SANDY CLAY, HIGHLY PLASTIC
24+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, SAND

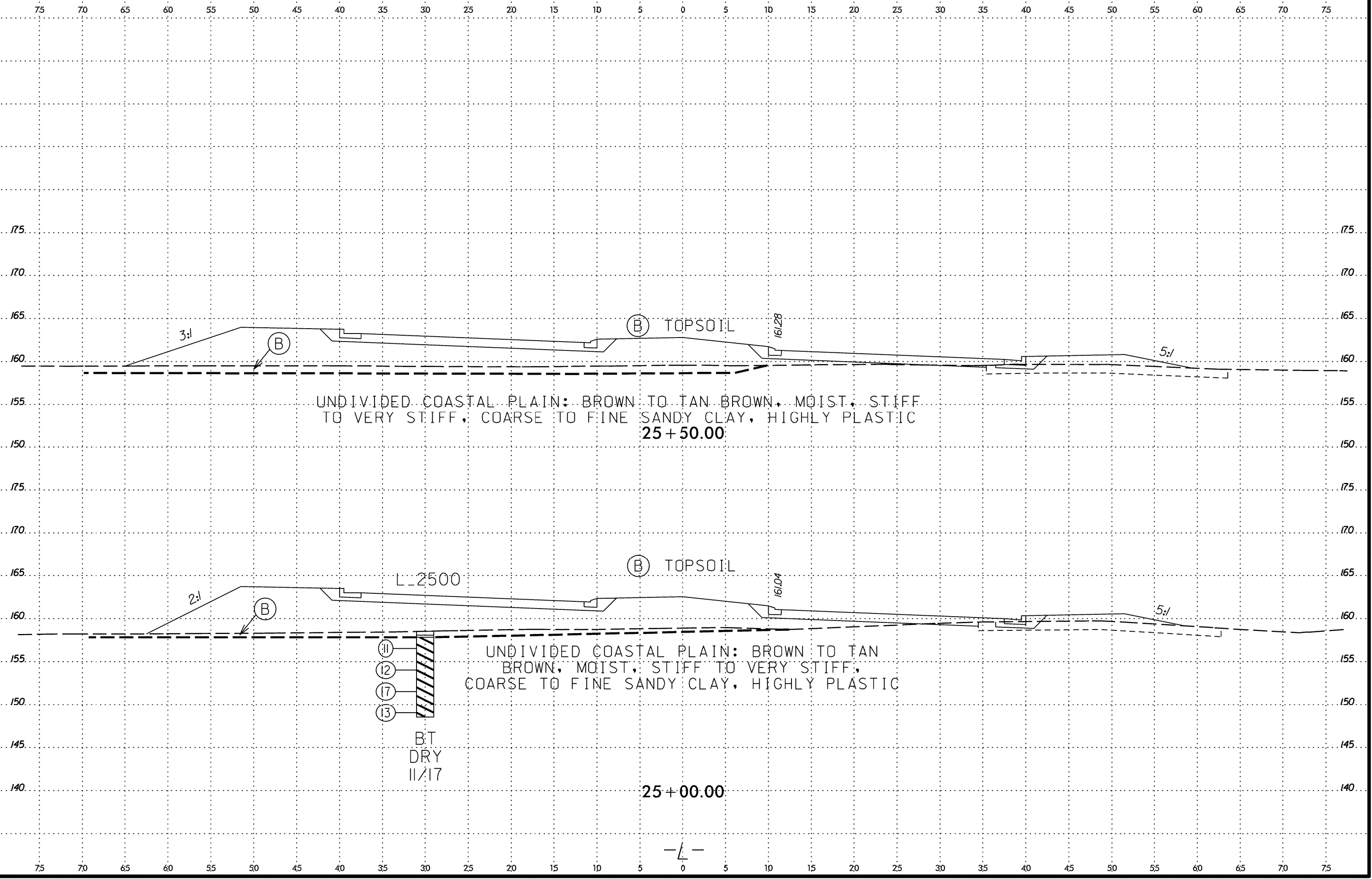
(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN TO RED, MOIST, VERY
STIFF TO MEDIUM STIFF, COARSE TO FINE SANDY CLAY, HIGHLY PLASTIC
23+50.00



SYSTEM TIME *****

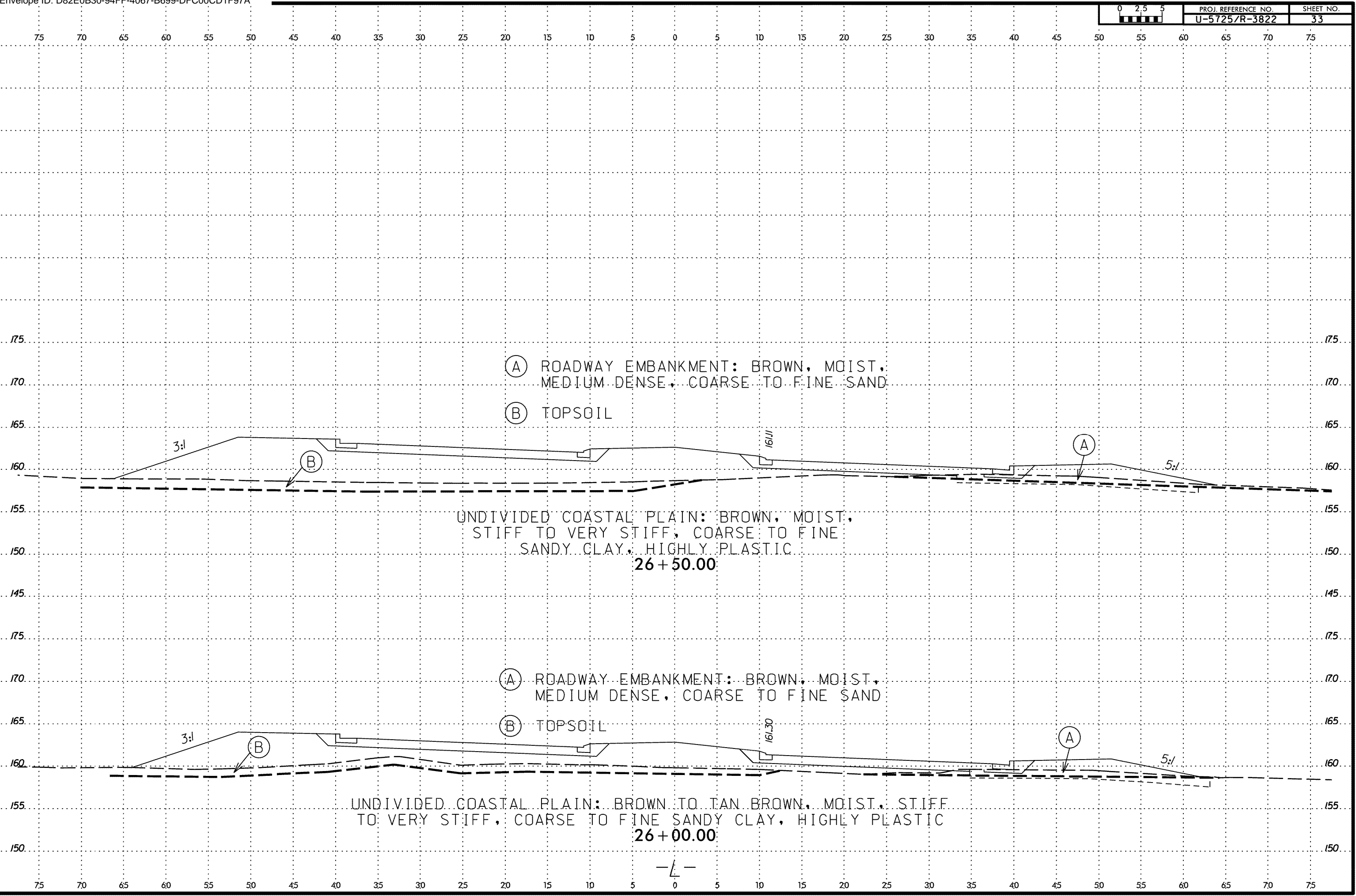
SUBUSER NAME *****

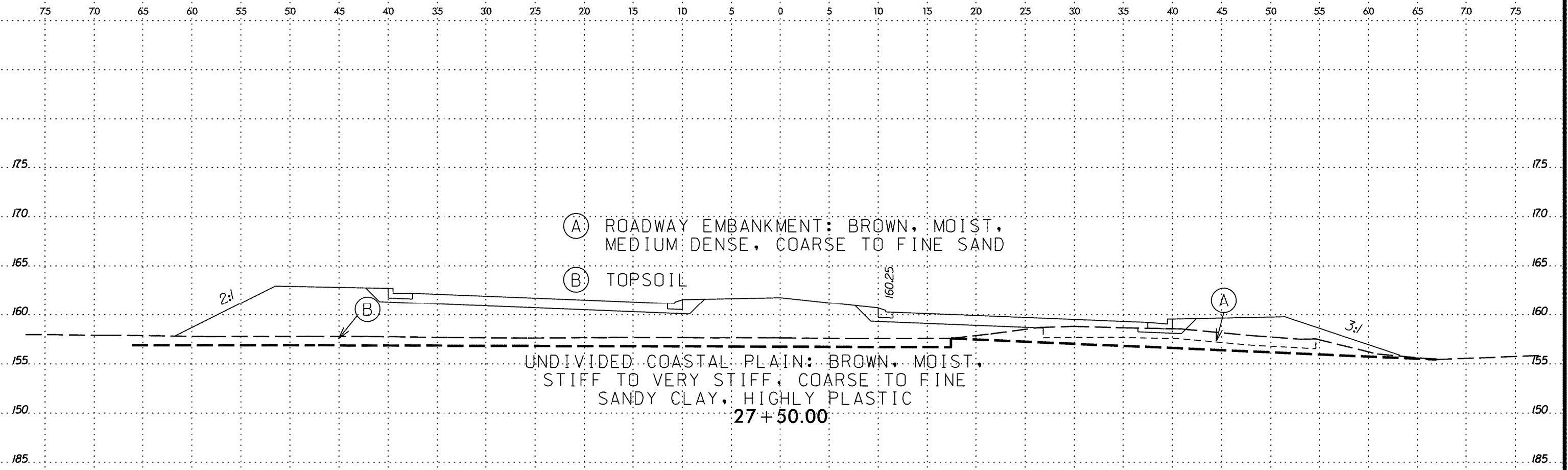


 SYSTEM TIME *****

 USER NAME *****

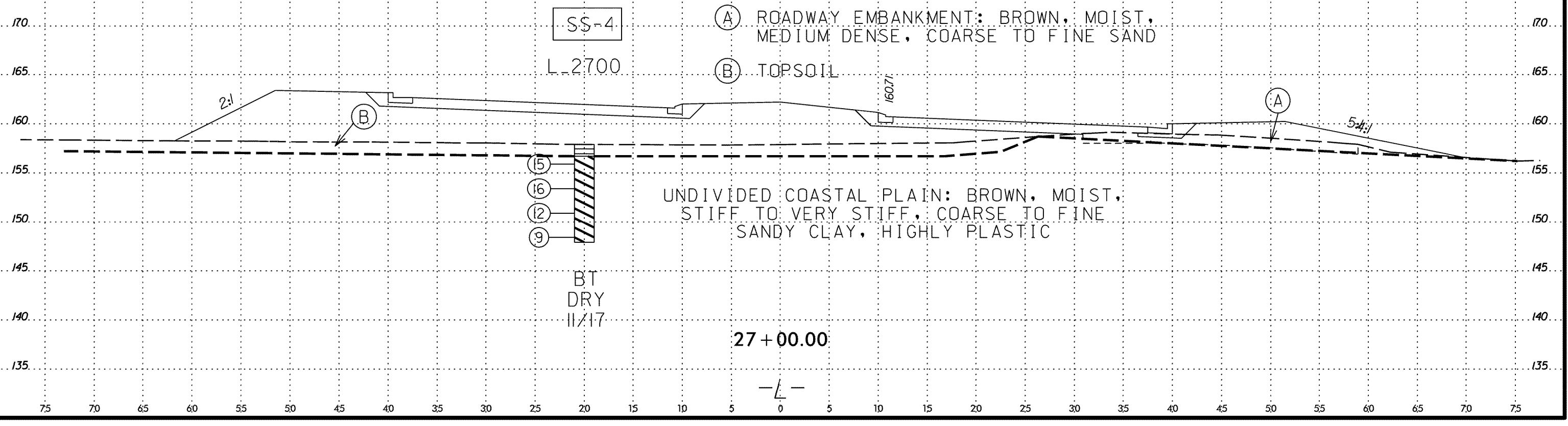
6/23/16
SYSTEMS
DESIGN
SUPERNAME





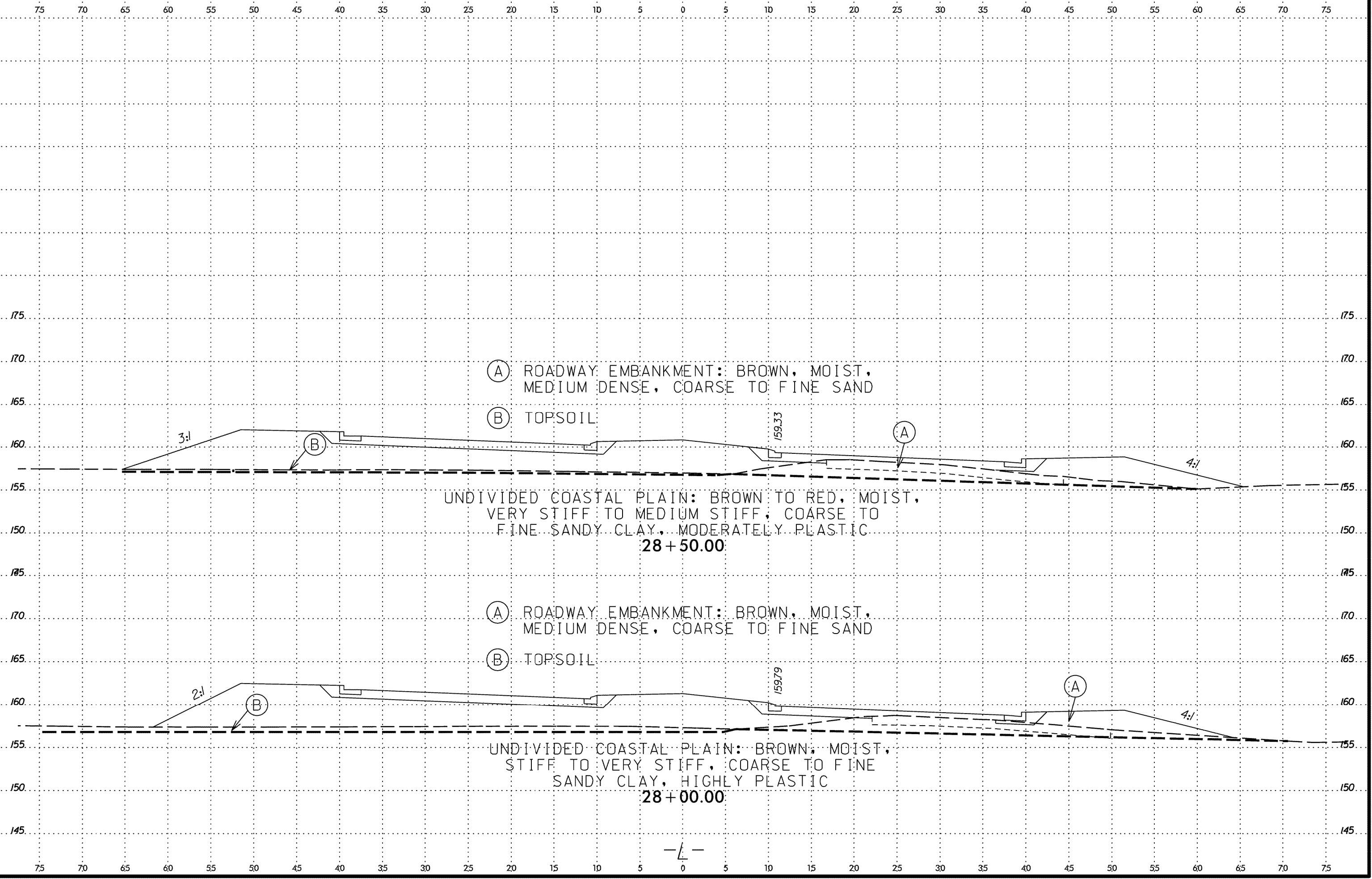
SOIL TEST RESULTS

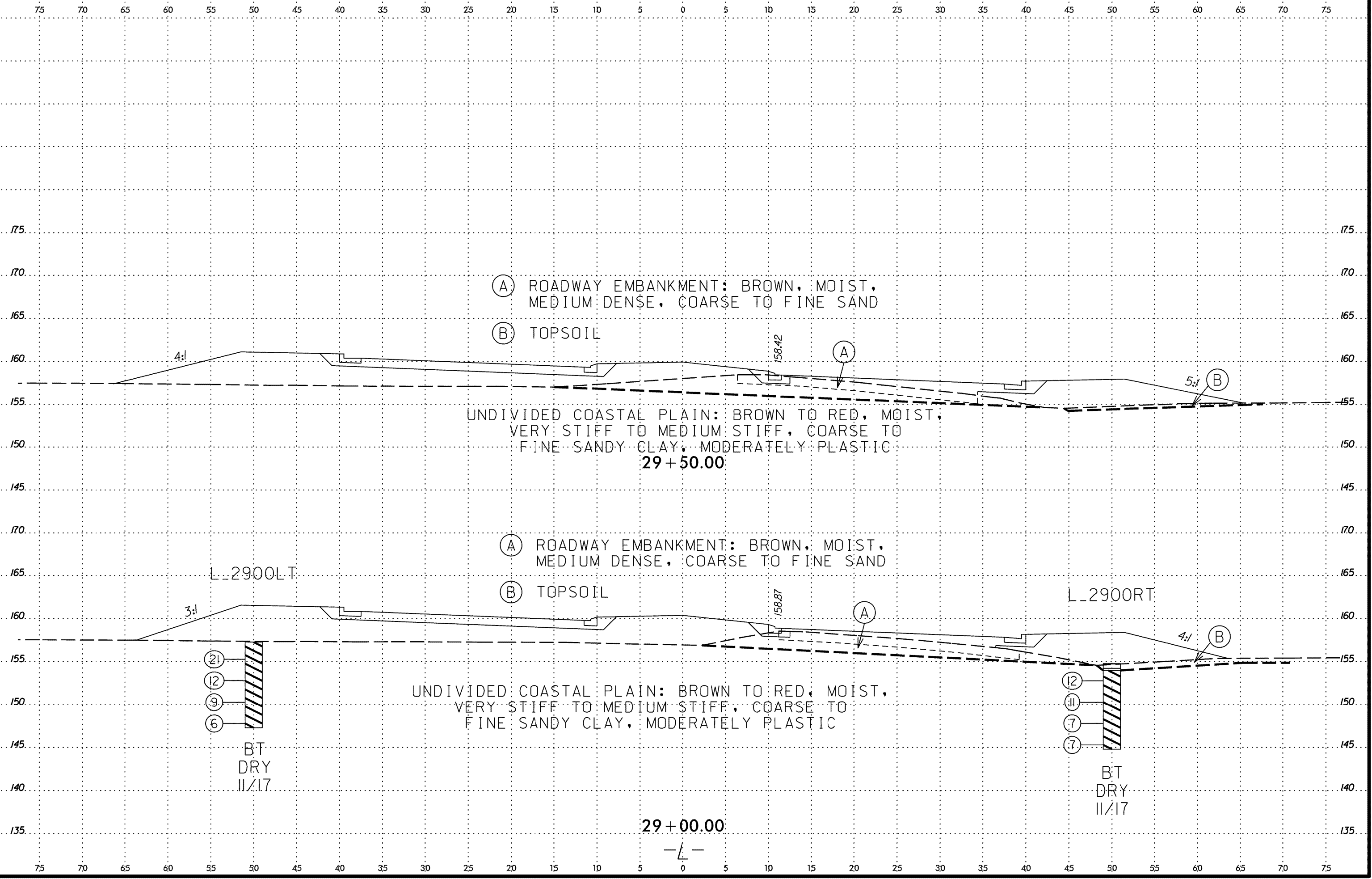
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-4	20' LT	27+00	3.5-5.0	A-7-6 (U)	49	29	17	35	7	4	98	90	49	21.8	-



 SYSTEM TIME *****

 USER NAME *****



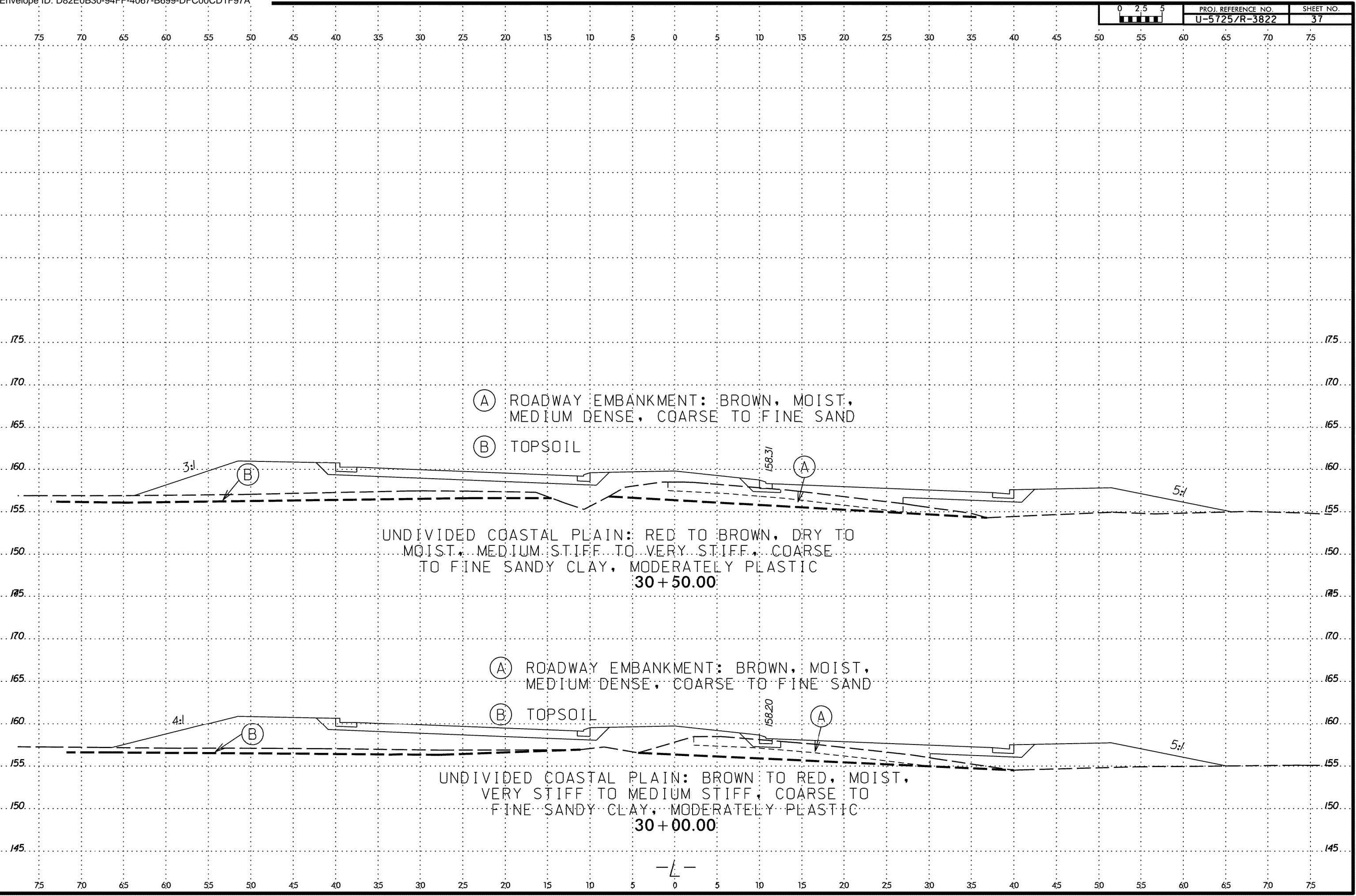


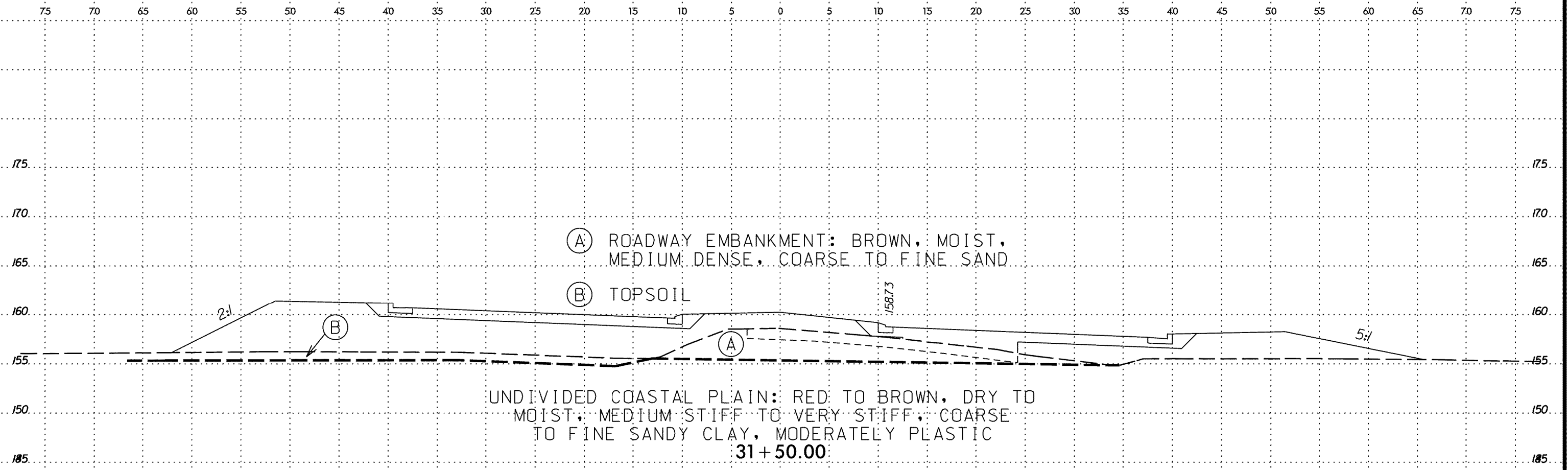
6/23/16

 SYSTEM TIME *****

 USER NAME *****

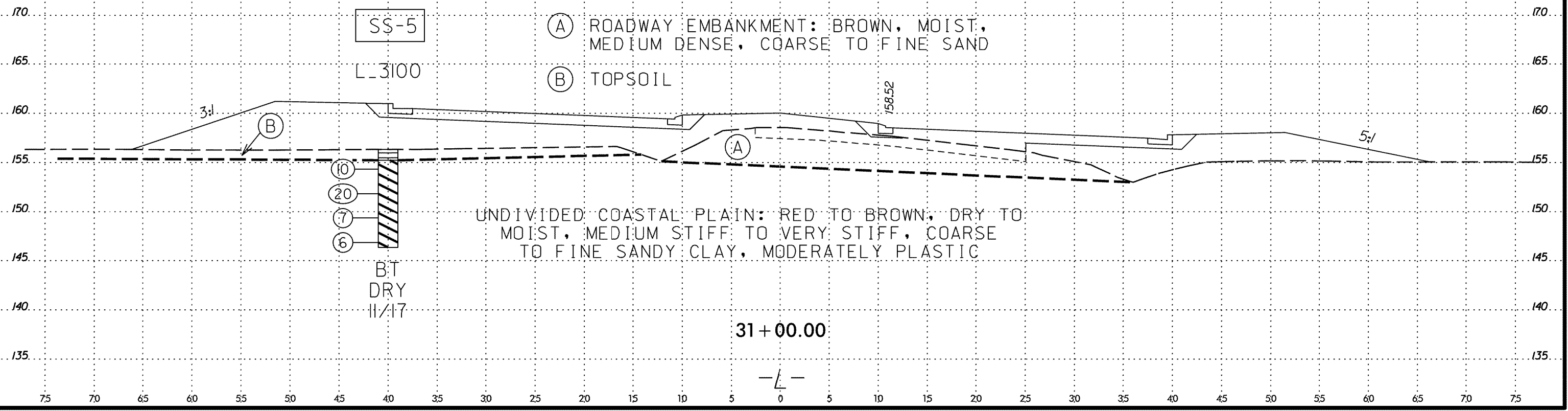
6/23/16
SYSTEMS
DESIGN
SUPERNAME





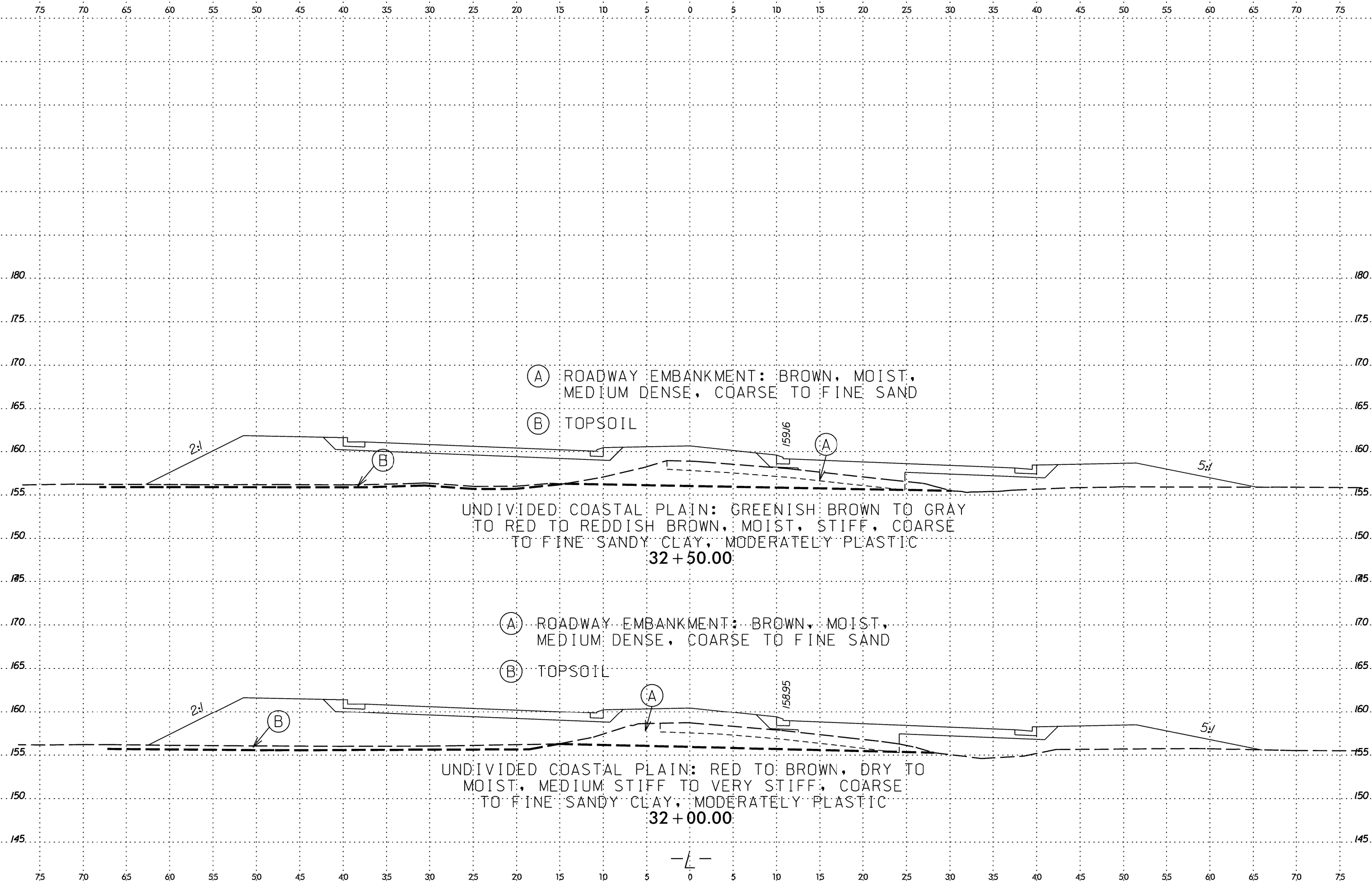
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-5	40' LT	31+00	3.5-5.0	A-7-6 (B)	46	24	18	32	10	40	94	90	49	25.7	-



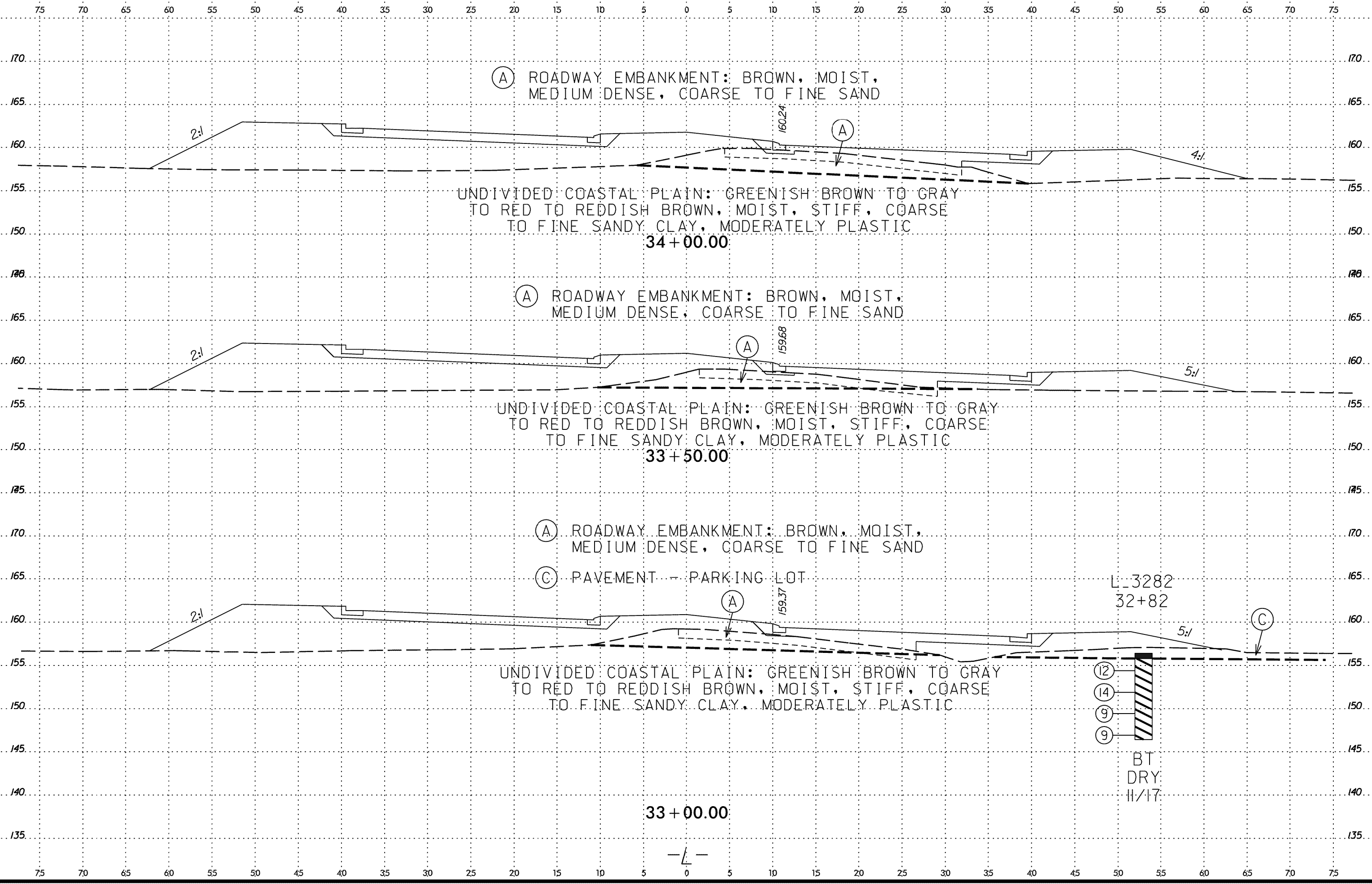
 SYSTEM TIME *****

 USER NAME *****



SYSTEM TIME

 USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO GRAY
TO RED TO REDDISH BROWN, MOIST, STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC
34 + 00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

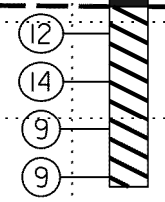
UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO GRAY
TO RED TO REDDISH BROWN, MOIST, STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC
33 + 50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

(C) PAVEMENT - PARKING LOT

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO GRAY
TO RED TO REDDISH BROWN, MOIST, STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC
33 + 00.00

L-3282
32+82



BT
DRY
II/I7

SYSTEM TIME

 USER NAME

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT:				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-6	40 LT	35+00	6.0-7.5	A-7-6 (29)	67	43	8	28	10	54	100	99	69	23.3	-

SS-6
 L_3500

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, DRY TO MOIST, STIFF TO VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

(17)
 (23)
 (19)
 (15)
 B.T
 DRY
 11/17

35 + 00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

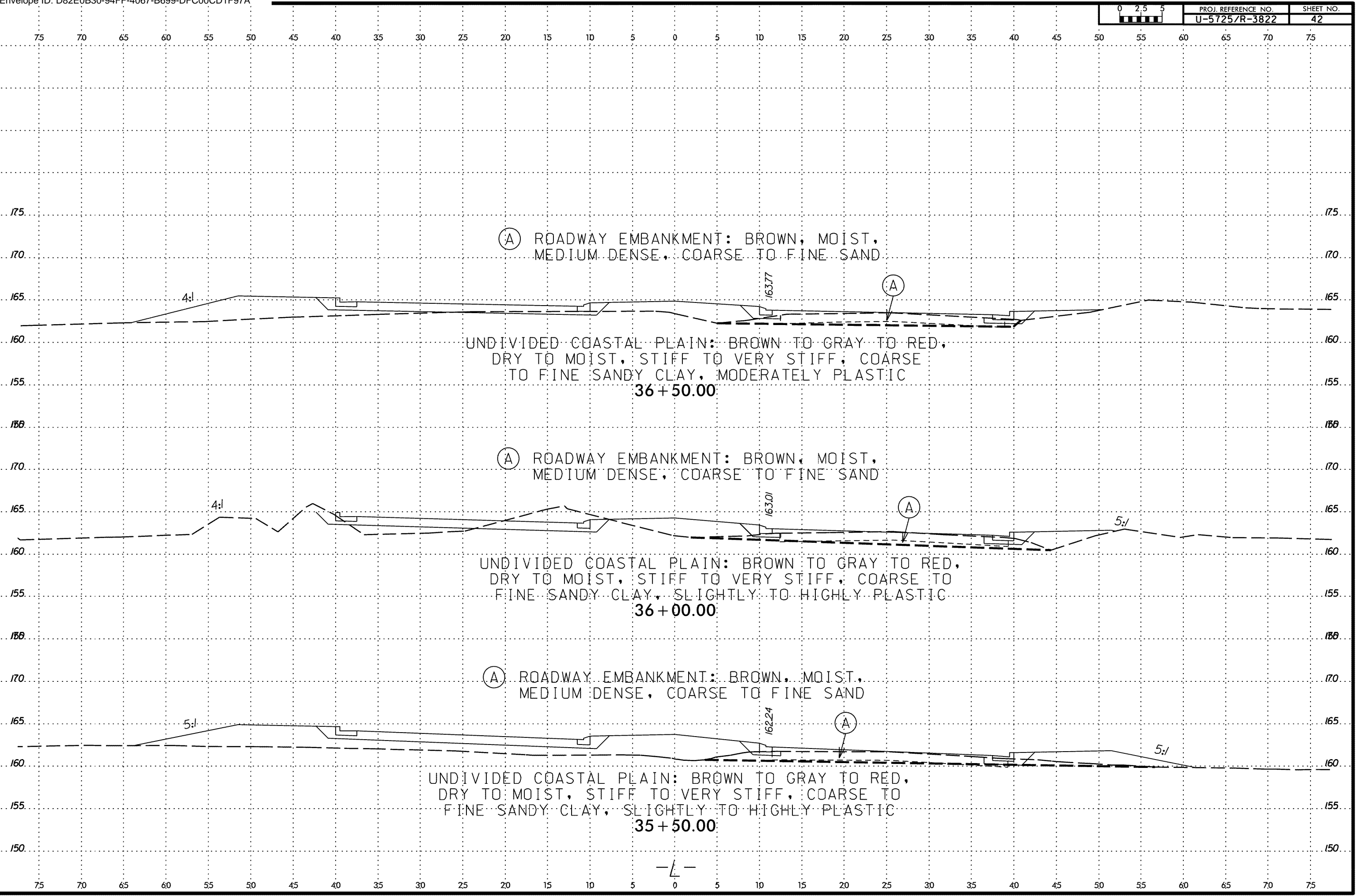
UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED, DRY TO MOIST, STIFF TO VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

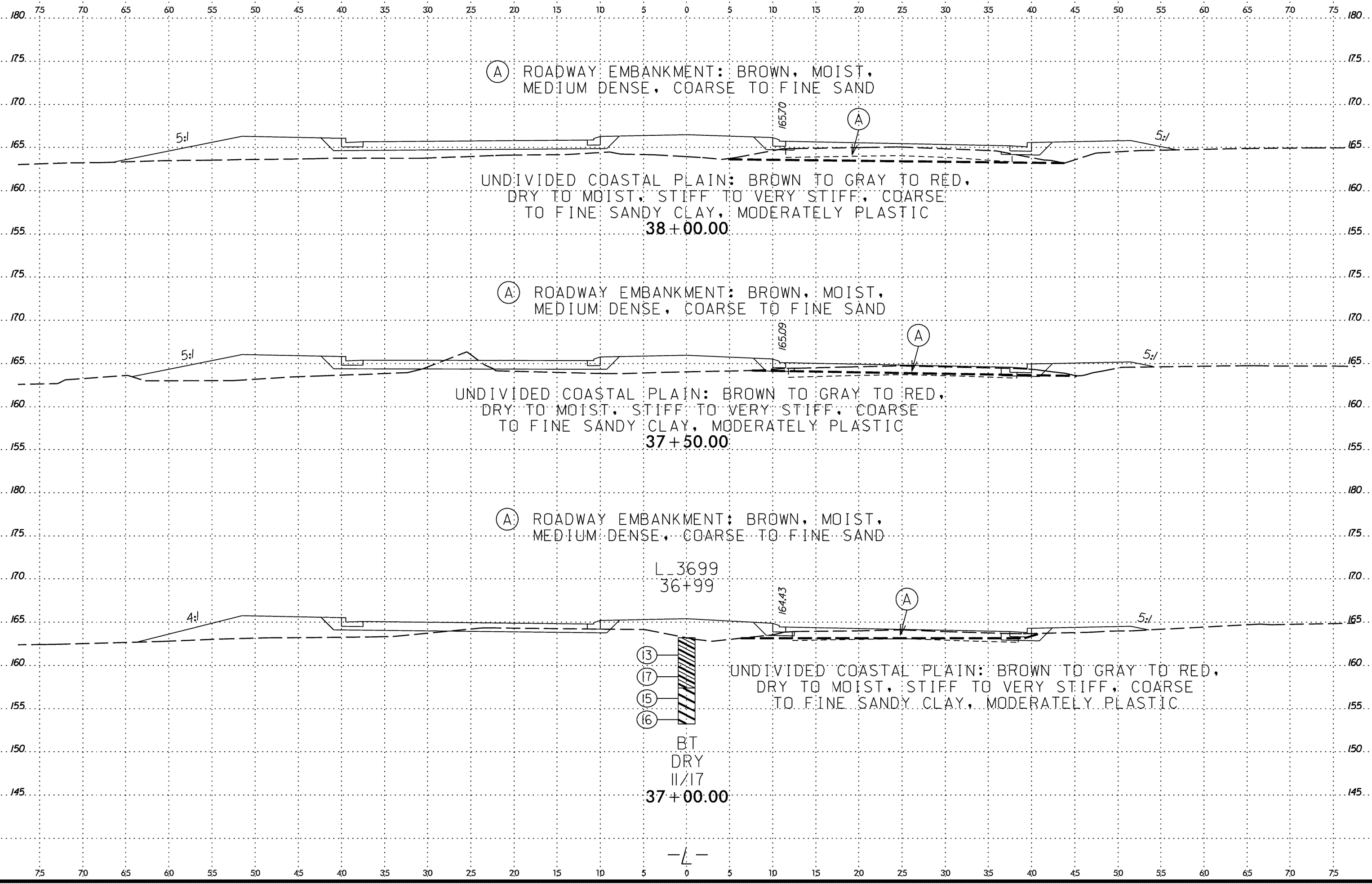
34 + 50.00

-L-

SYSTEMS
 6/23/16
 SUBSERIAL

6/23/16
SYSTEMS
OPERATIONS
SUPERNAME





(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED,
DRY TO MOIST, STIFF TO VERY STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC
38+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED,
DRY TO MOIST, STIFF TO VERY STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC
37+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

L_3699
36+99

- (13)
- (17)
- (15)
- (16)

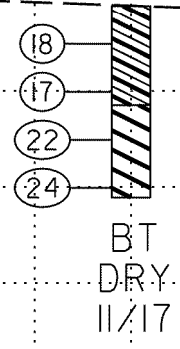
BT
DRY
11/17
37+00.00

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY TO RED,
DRY TO MOIST, STIFF TO VERY STIFF, COARSE
TO FINE SANDY CLAY, MODERATELY PLASTIC

SYSTEM TIME *****
 USER *****
 USER NAME *****

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-7	20 LT	39+00	1.0-2.5	A-6 (4)	39	19	30	30	8	32	100	83	44	11.9	-

SS-7 (A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND
 L_3900



UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC

39 + 00.00

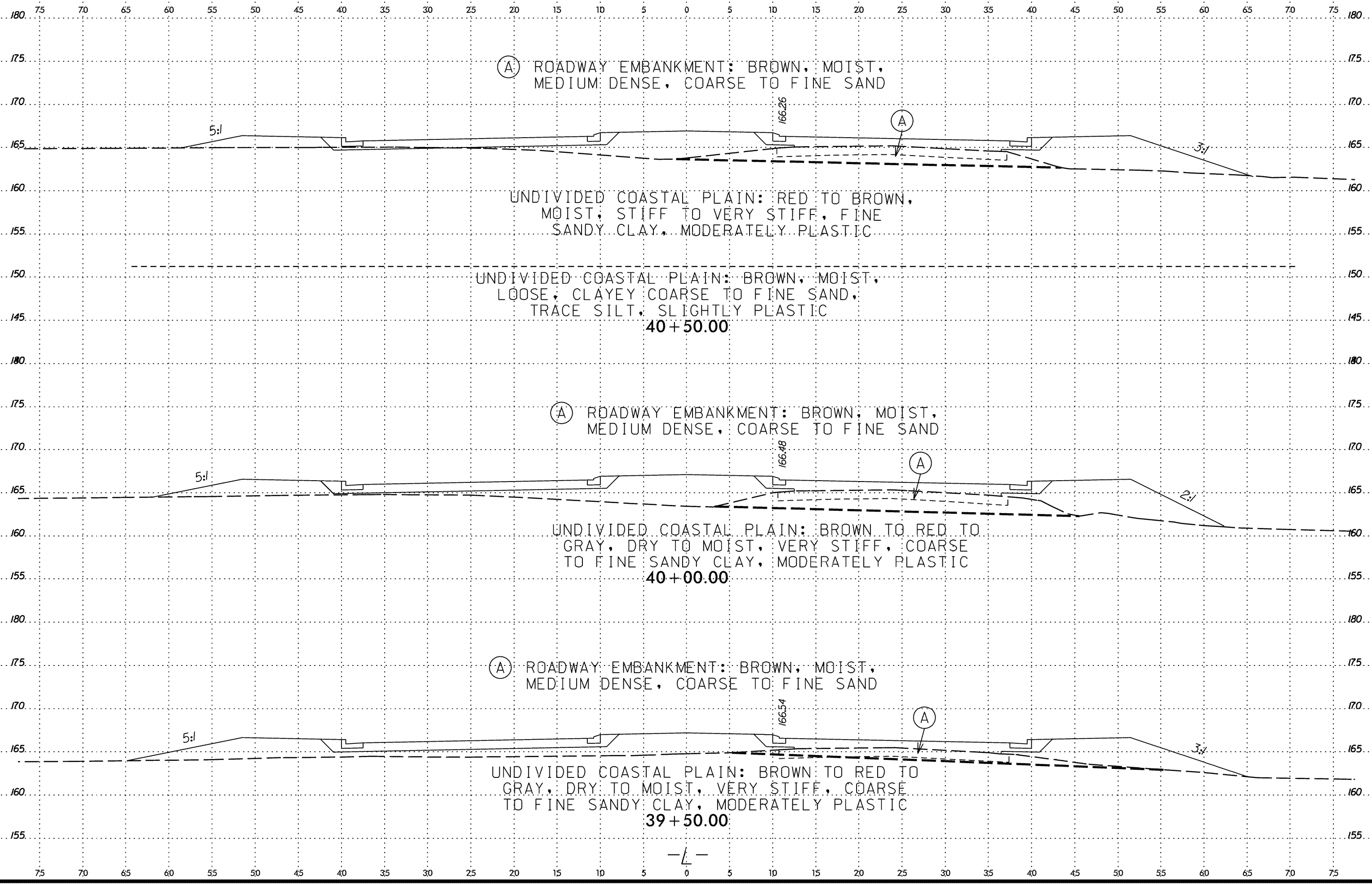
(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC

38 + 50.00

-L-

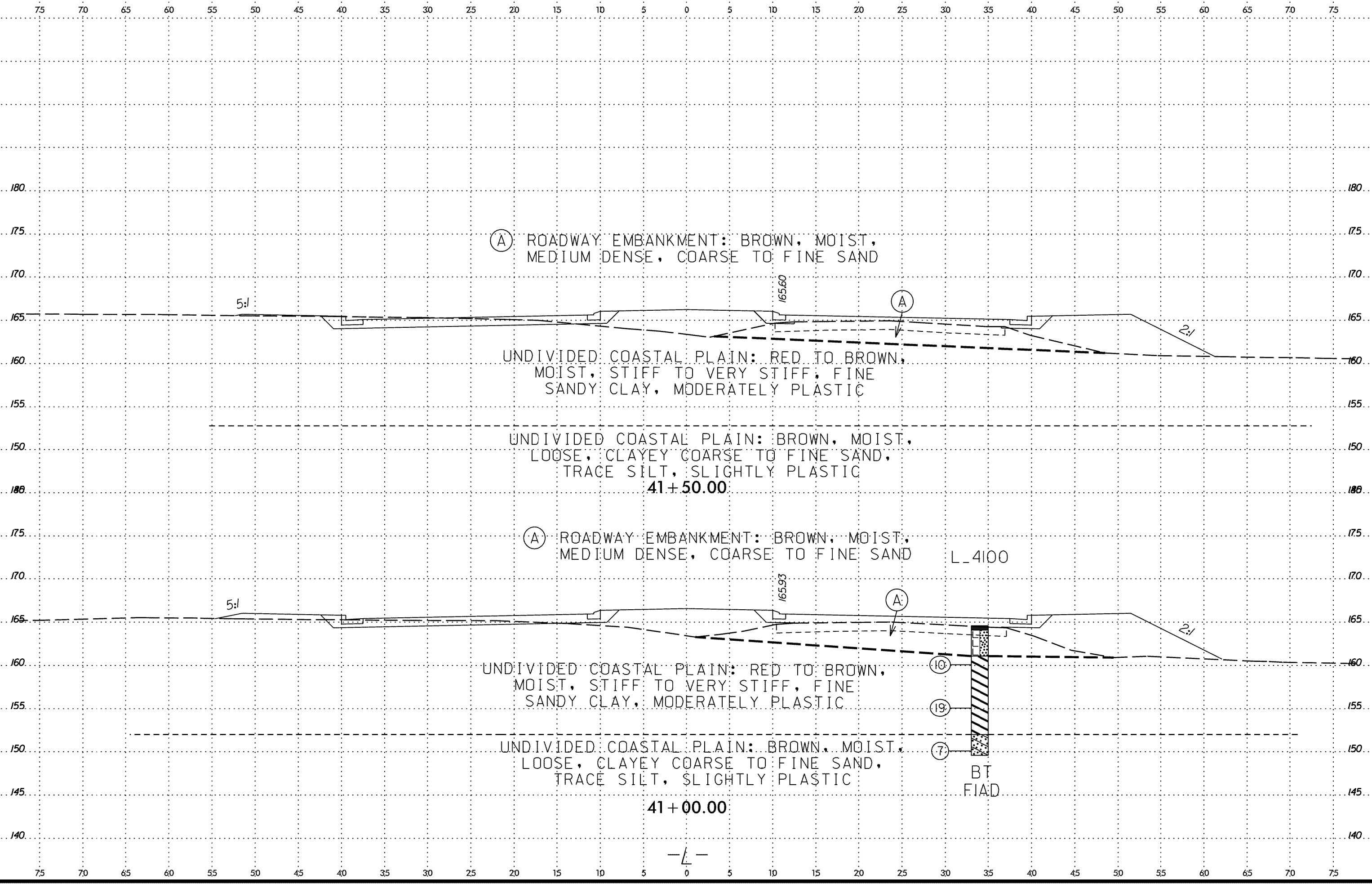
SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBSYSTEM: [unreadable]



6/23/16

 SYSTEM TIME *****

 USER NAME *****



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF TO VERY STIFF, FINE
SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN, MOIST,
LOOSE, CLAYEY COARSE TO FINE SAND,
TRACE SILT, SLIGHTLY PLASTIC
41+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

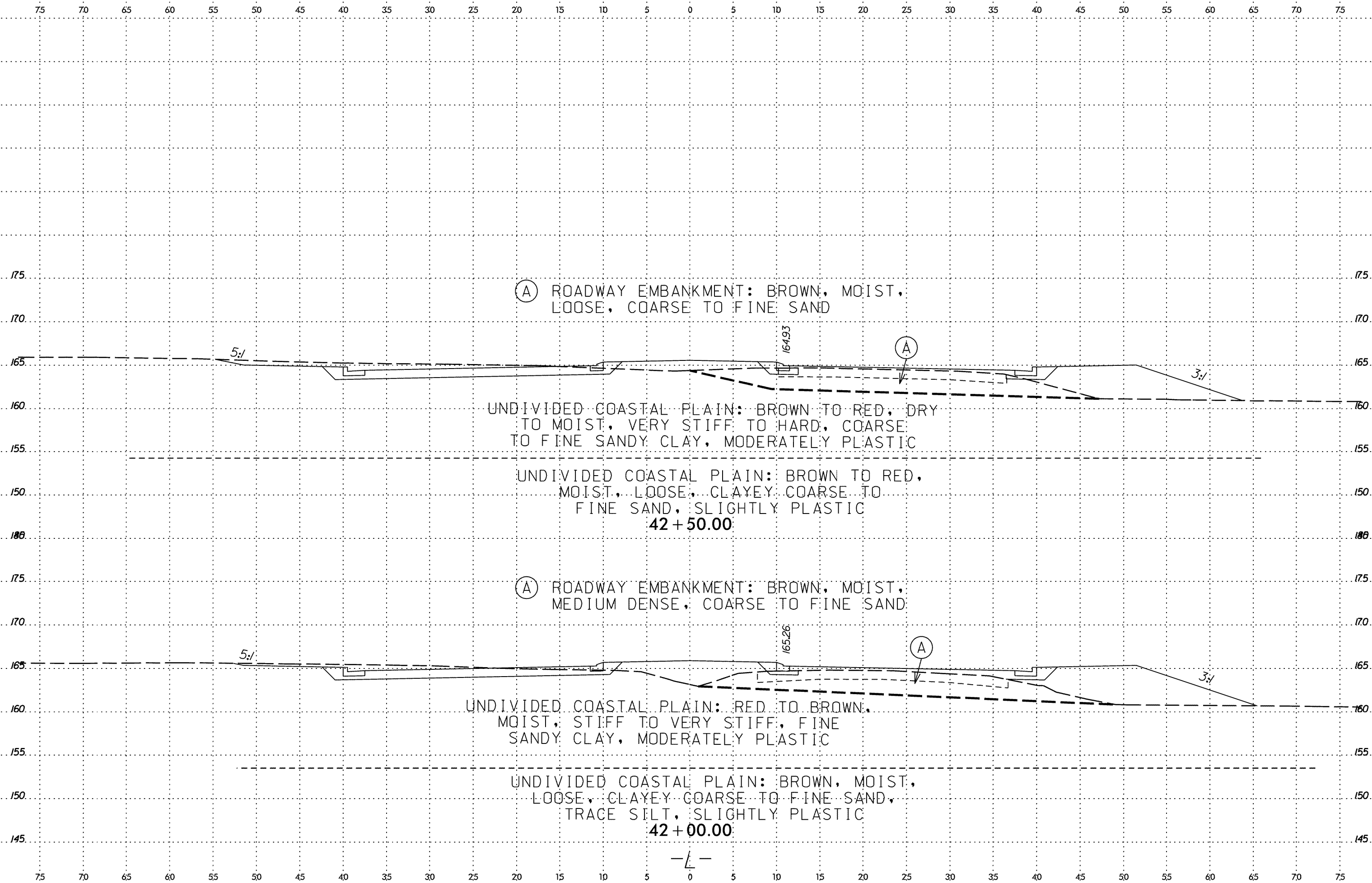
UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF TO VERY STIFF, FINE
SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN, MOIST,
LOOSE, CLAYEY COARSE TO FINE SAND,
TRACE SILT, SLIGHTLY PLASTIC
41+00.00

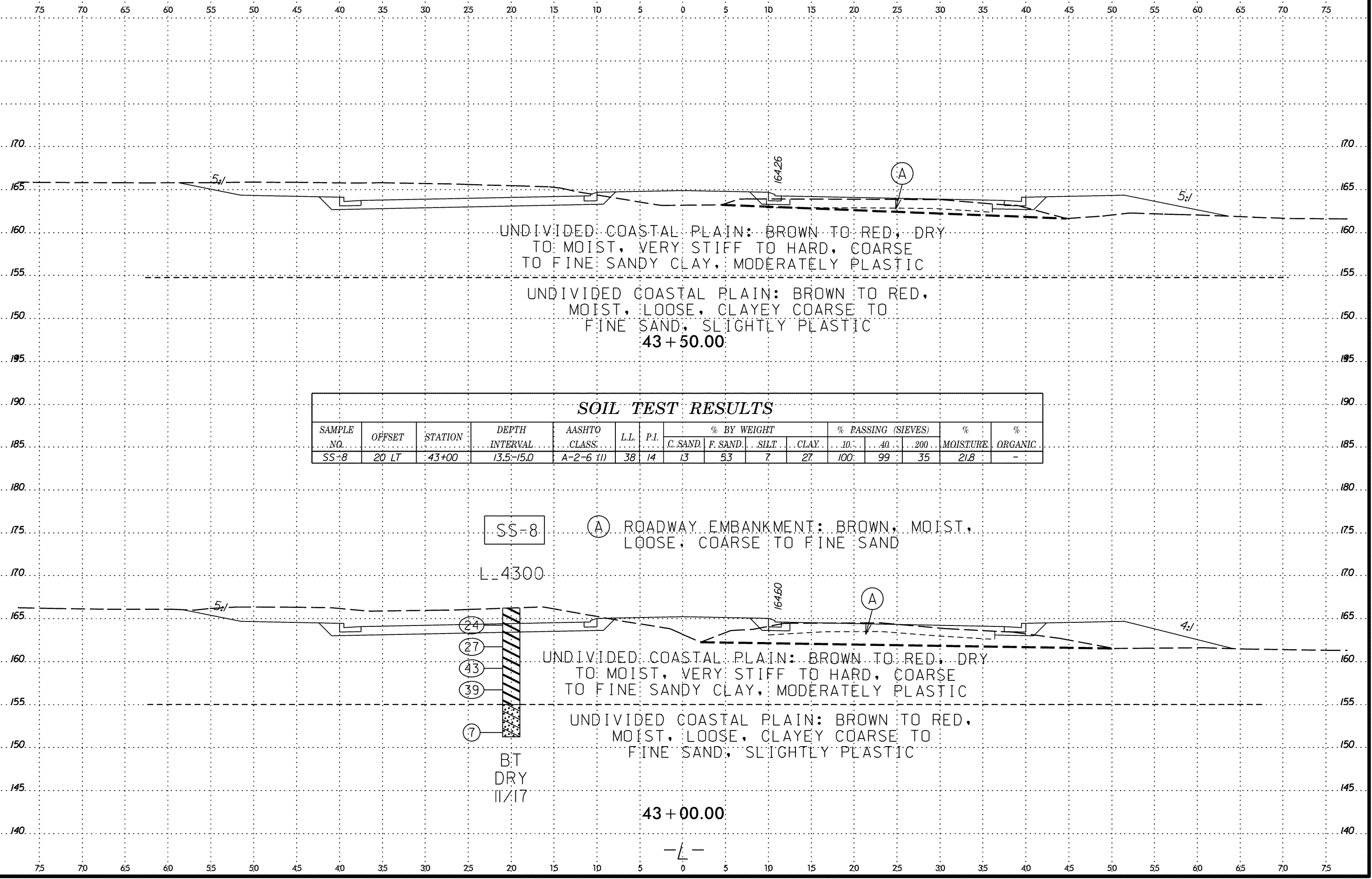
L_4100

BT
FIAD

SYSTEM TIME
DESIGN
SUBMITTER



SYSTEMS
SUBSYSTEMS
SERIALS

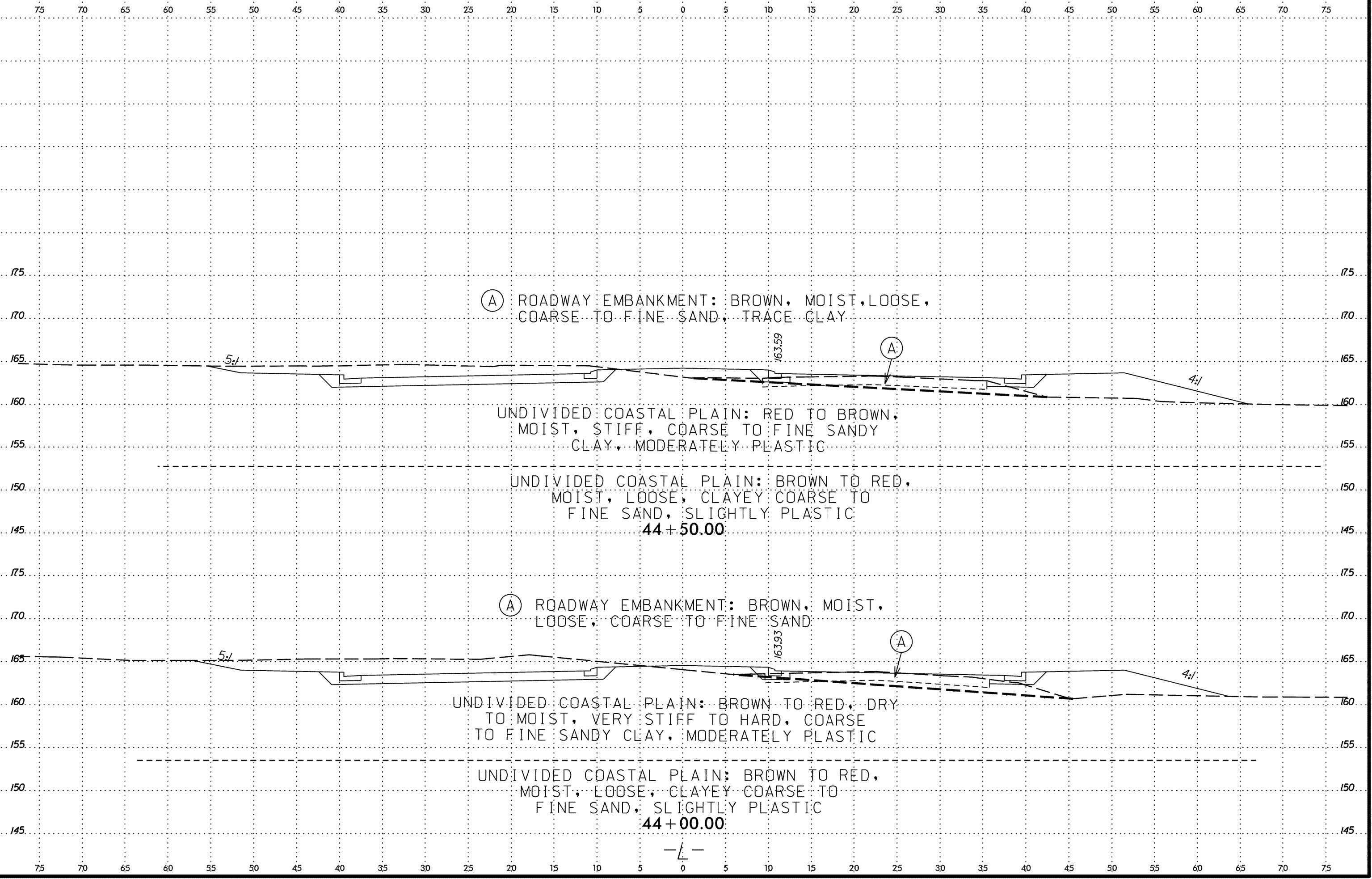


SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	.10	.40	.200		
SS-8	20 LT	43+00	13.5-15.0	A-2-6 (1)	38	14	13	53	7	27	100	99	35	21.8	-

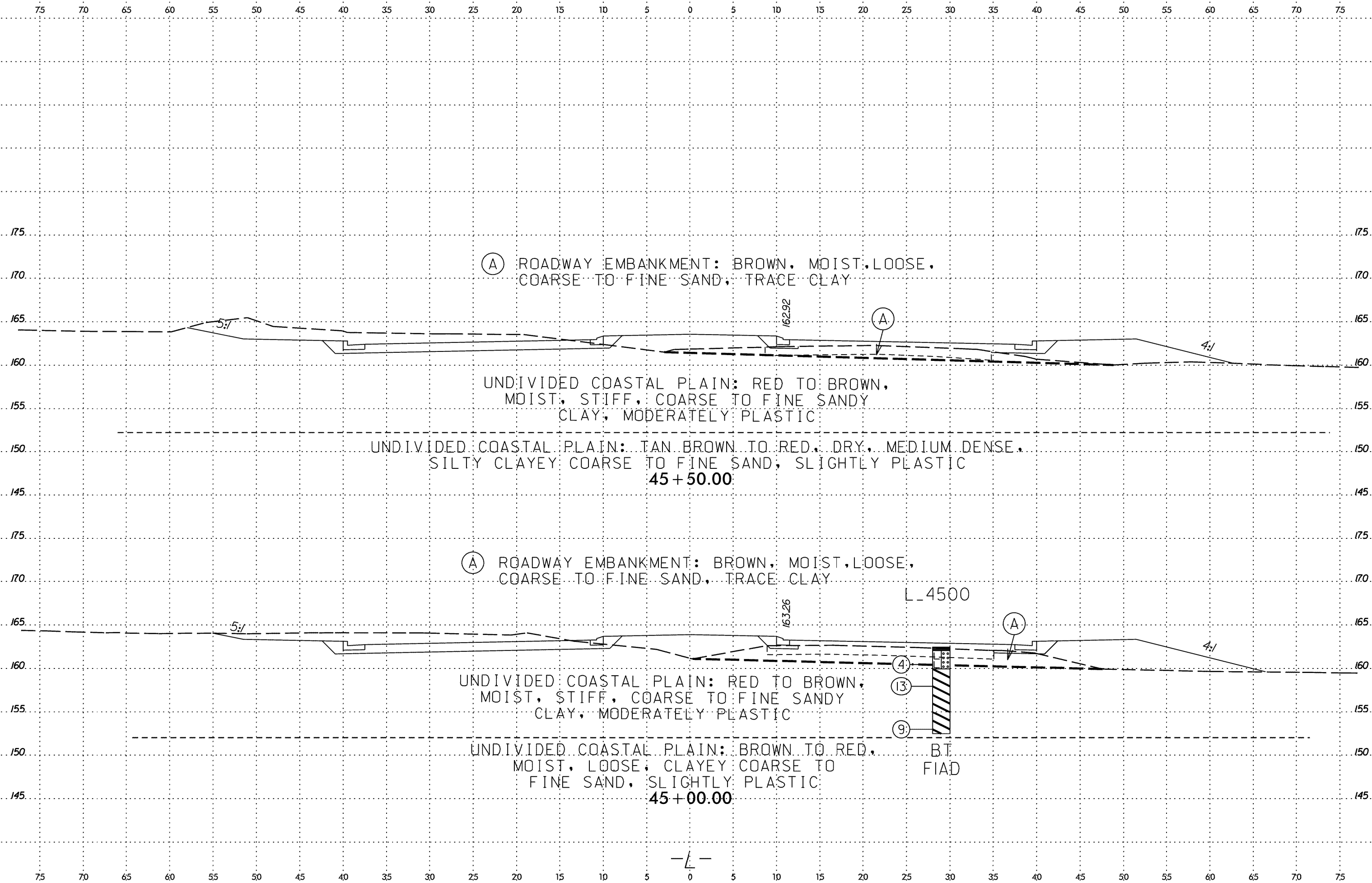
 SYSTEM TIME *****

 USER NAME *****



SYSTEMS
SUBSERNAME

-L-



(A) ROADWAY EMBANKMENT: BROWN, MOIST, LOOSE,
COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF, COARSE TO FINE SANDY
CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, DRY, MEDIUM DENSE,
SILTY CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC
45+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, LOOSE,
COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF, COARSE TO FINE SANDY
CLAY, MODERATELY PLASTIC

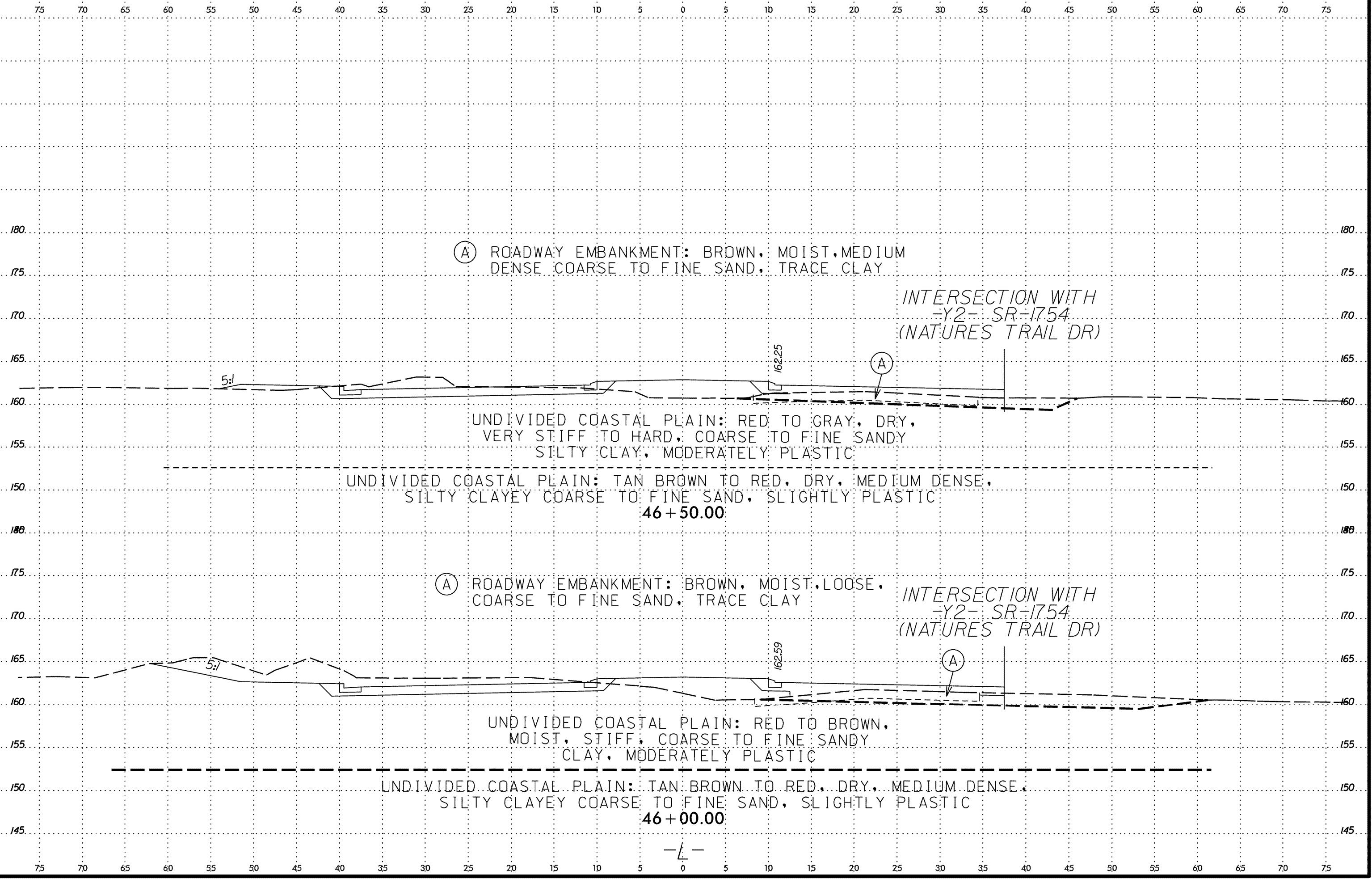
UNDIVIDED COASTAL PLAIN: BROWN TO RED,
MOIST, LOOSE, CLAYEY COARSE TO
FINE SAND, SLIGHTLY PLASTIC
45+00.00

L_4500

BT
FIAD

-L-

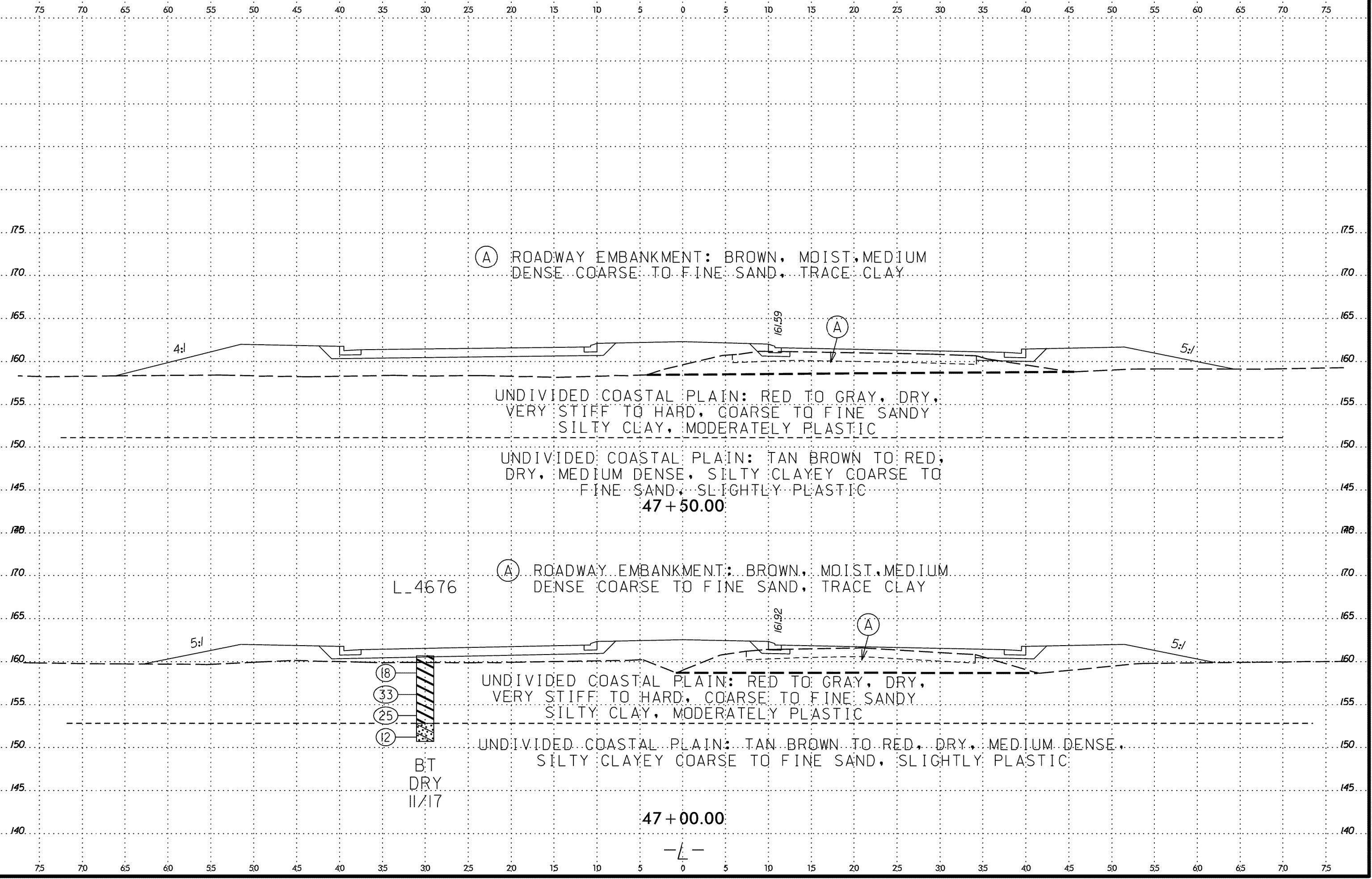
SYSTEM TIME
OPERATOR
SUBSYSTEM



6/23/16

 SYSTEM TIME *****

 USER NAME *****



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: RED TO GRAY, DRY, VERY STIFF TO HARD, COARSE TO FINE SANDY SILTY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, DRY, MEDIUM DENSE, SILTY CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC
47 + 50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: RED TO GRAY, DRY, VERY STIFF TO HARD, COARSE TO FINE SANDY SILTY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, DRY, MEDIUM DENSE, SILTY CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

47 + 00.00

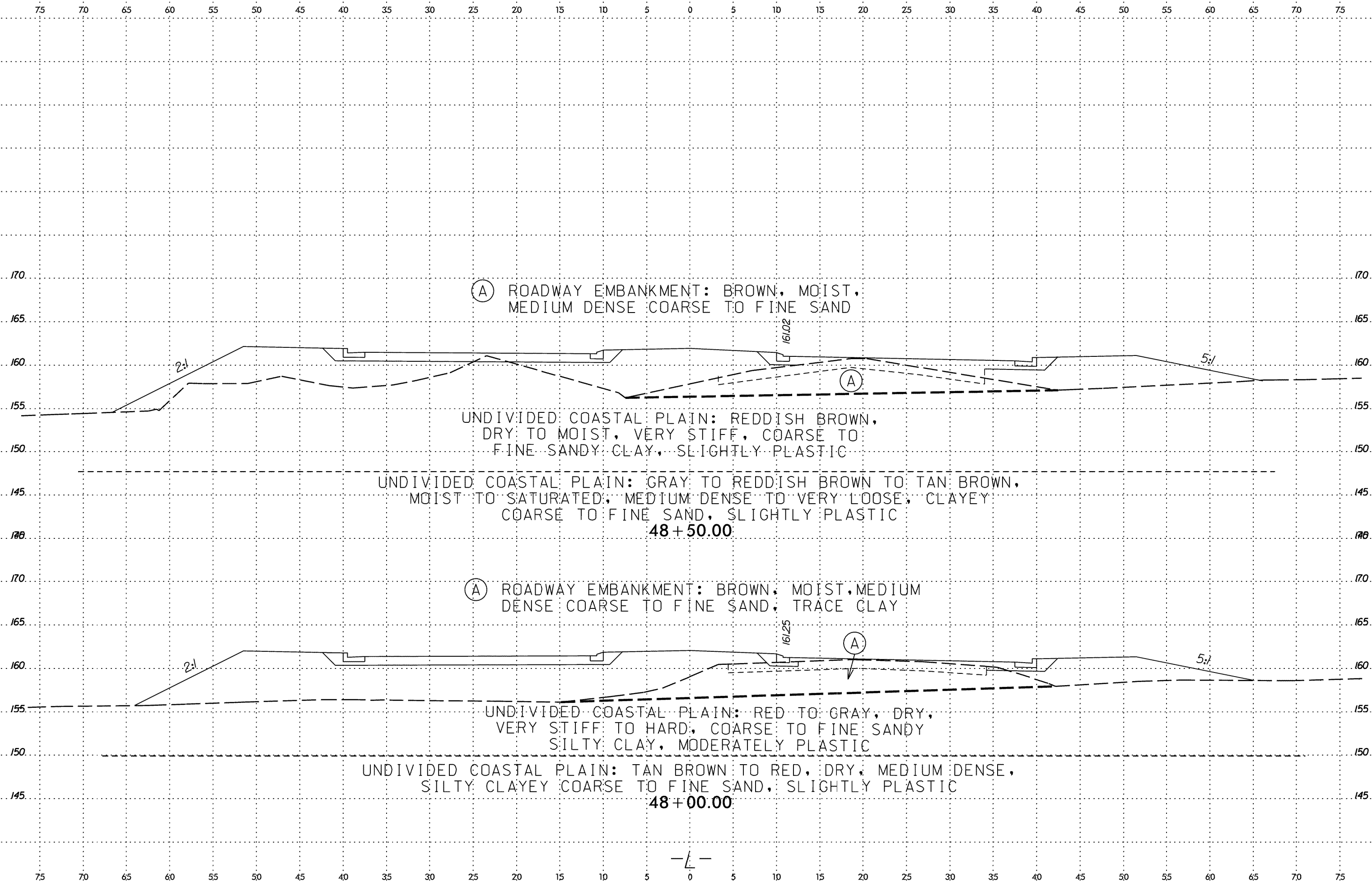
L_4676

(18)
(33)
(25)
(12)

BT
DRY
11/17

SYSTEM TIME

 USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE COARSE TO FINE SAND

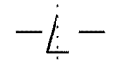
UNDIVIDED COASTAL PLAIN: REDDISH BROWN, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO REDDISH BROWN TO TAN BROWN, MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC
48+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: RED TO GRAY, DRY, VERY STIFF TO HARD, COARSE TO FINE SANDY SILTY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, DRY, MEDIUM DENSE, SILTY CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC
48+00.00



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 PROJECT: [unreadable]
 SHEET: 53

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-9	40 LT	49+00	3.5-5.0	A-6 (2)	38	12	12	47	7	34	100	98	43	18.7	-
SS-10	40 LT	49+00	8.5-10.0	A-2-5 (0)	42	10	66	10	8	16	99	53	25	13.2	-

SS-9
 SS-10

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE COARSE TO FINE SAND

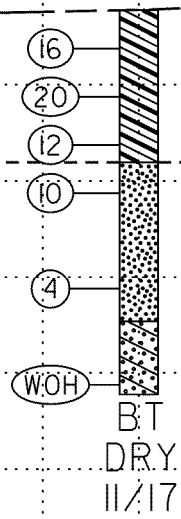
L_4900

60/91

(A)

UNDIVIDED COASTAL PLAIN: REDDISH BROWN, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

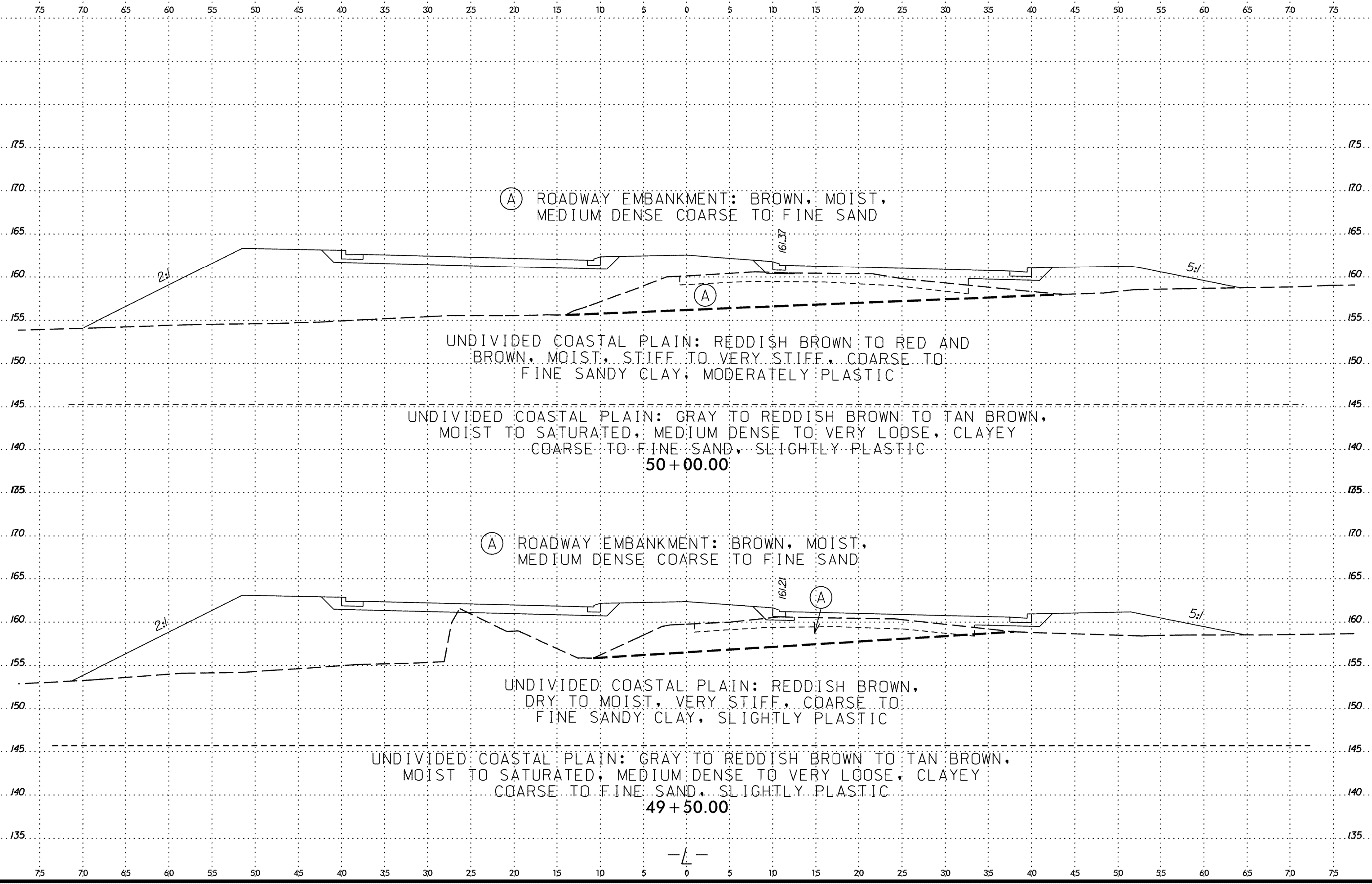
UNDIVIDED COASTAL PLAIN: GRAY TO REDDISH BROWN TO TAN BROWN, MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC



49 + 00.00

-L-

SYSTEM TIME
 DATE
 USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: REDDISH BROWN TO RED AND
BROWN, MOIST, STIFF TO VERY STIFF, COARSE TO
FINE SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO REDDISH BROWN TO TAN BROWN,
MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY
COARSE TO FINE SAND, SLIGHTLY PLASTIC

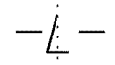
50+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE COARSE TO FINE SAND

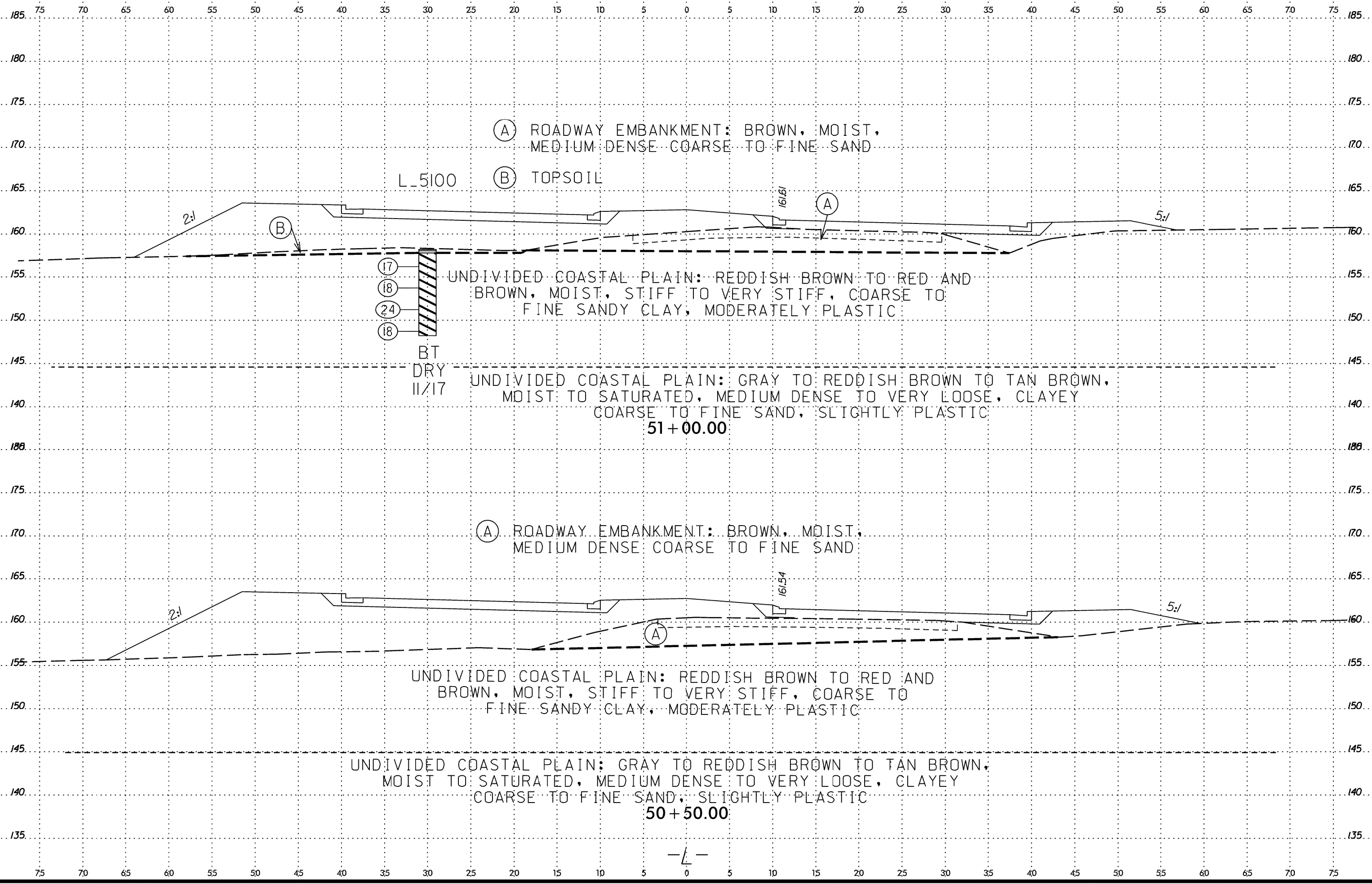
UNDIVIDED COASTAL PLAIN: REDDISH BROWN,
DRY TO MOIST, VERY STIFF, COARSE TO
FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO REDDISH BROWN TO TAN BROWN,
MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY
COARSE TO FINE SAND, SLIGHTLY PLASTIC

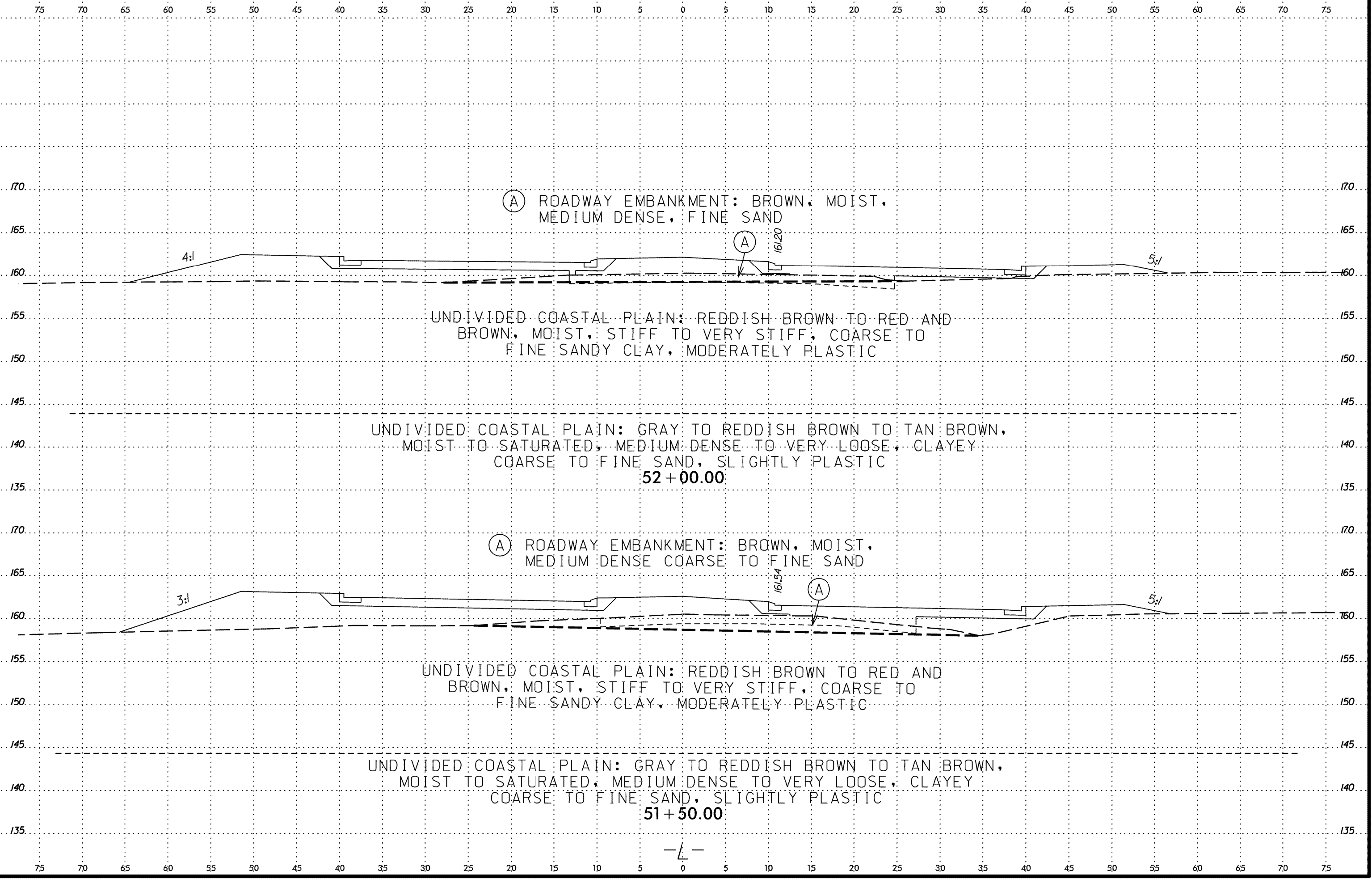
49+50.00



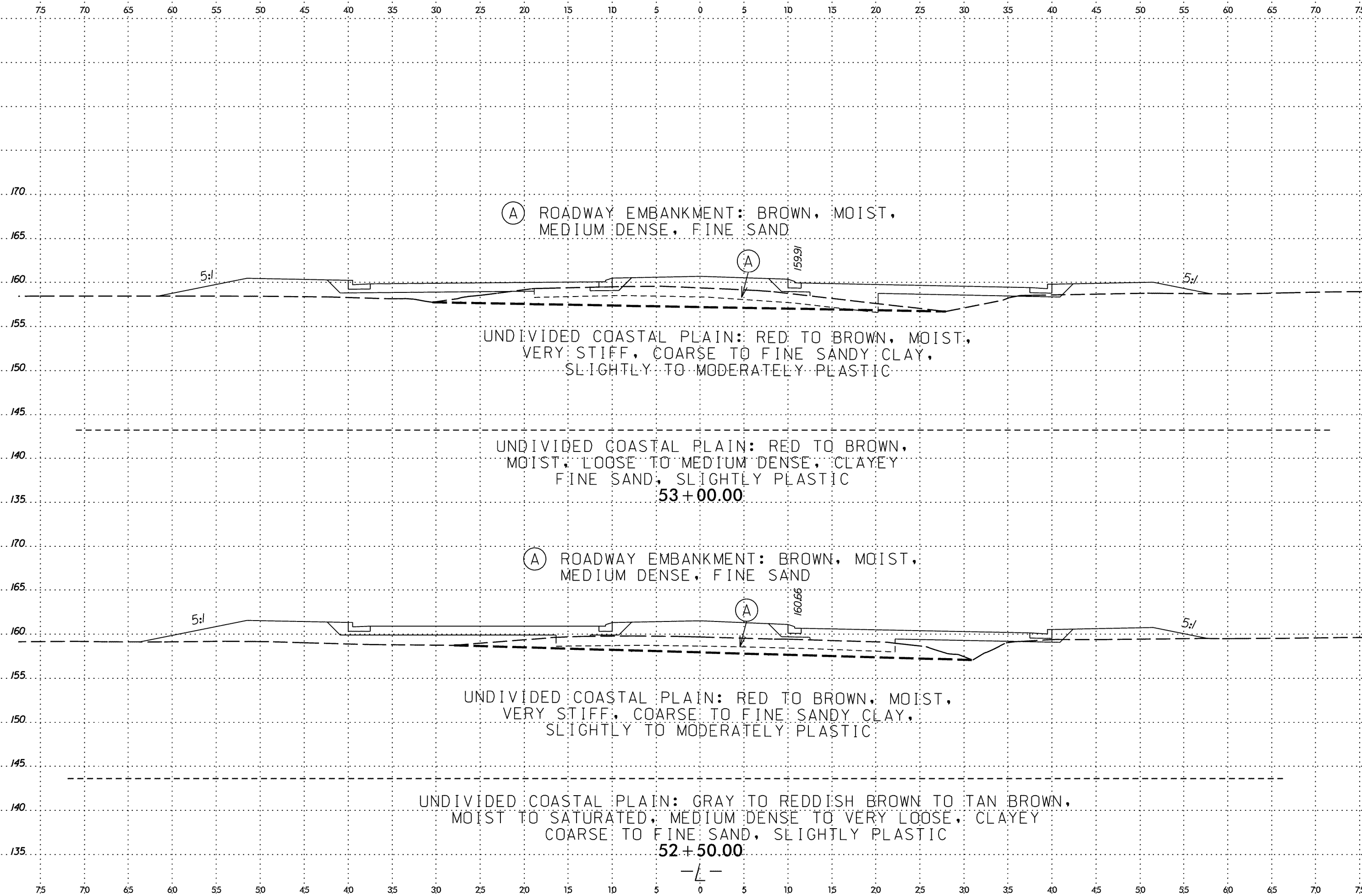
SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBSYSTEM: [unreadable]



SYSTEM TIME
 USER NAME
 6/23/16



SYSTEM TIME
 PROJECT LOCATION
 SUBURNAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST,
VERY STIFF, COARSE TO FINE SANDY CLAY,
SLIGHTLY TO MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC

53+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST,
VERY STIFF, COARSE TO FINE SANDY CLAY,
SLIGHTLY TO MODERATELY PLASTIC

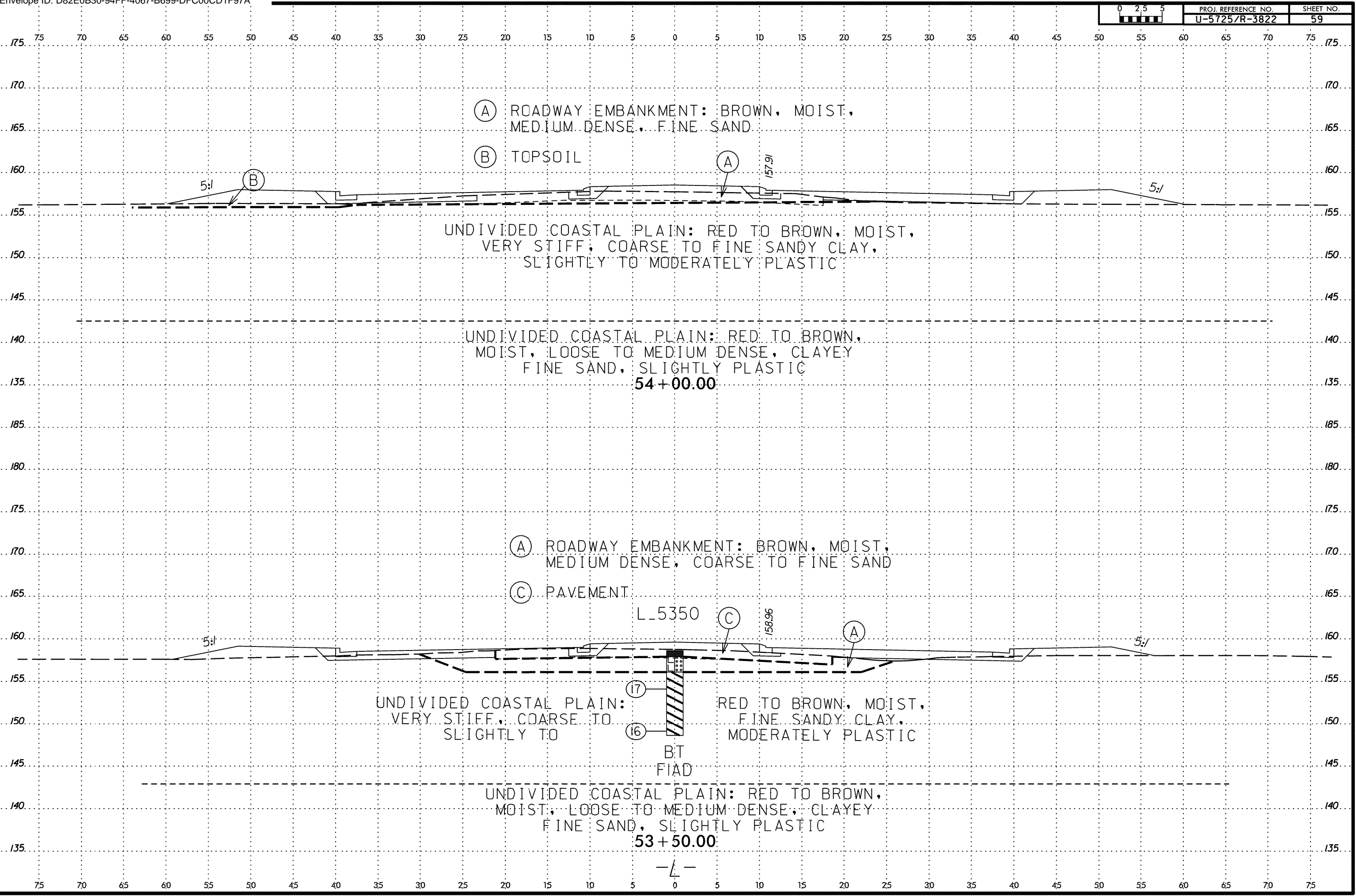
UNDIVIDED COASTAL PLAIN: GRAY TO REDDISH BROWN TO TAN BROWN,
MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY
COARSE TO FINE SAND, SLIGHTLY PLASTIC

52+50.00

-L-

SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBSYSTEM: [unreadable]

6/23/16
SYSTEMS
OPERATIONS
SUPPORT
GROUP



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND.

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST,
VERY STIFF, COARSE TO FINE SANDY CLAY,
SLIGHTLY TO MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC

54+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

(C) PAVEMENT

UNDIVIDED COASTAL PLAIN:
VERY STIFF, COARSE TO
SLIGHTLY TO

RED TO BROWN, MOIST,
FINE SANDY CLAY,
MODERATELY PLASTIC

BT
FIAD

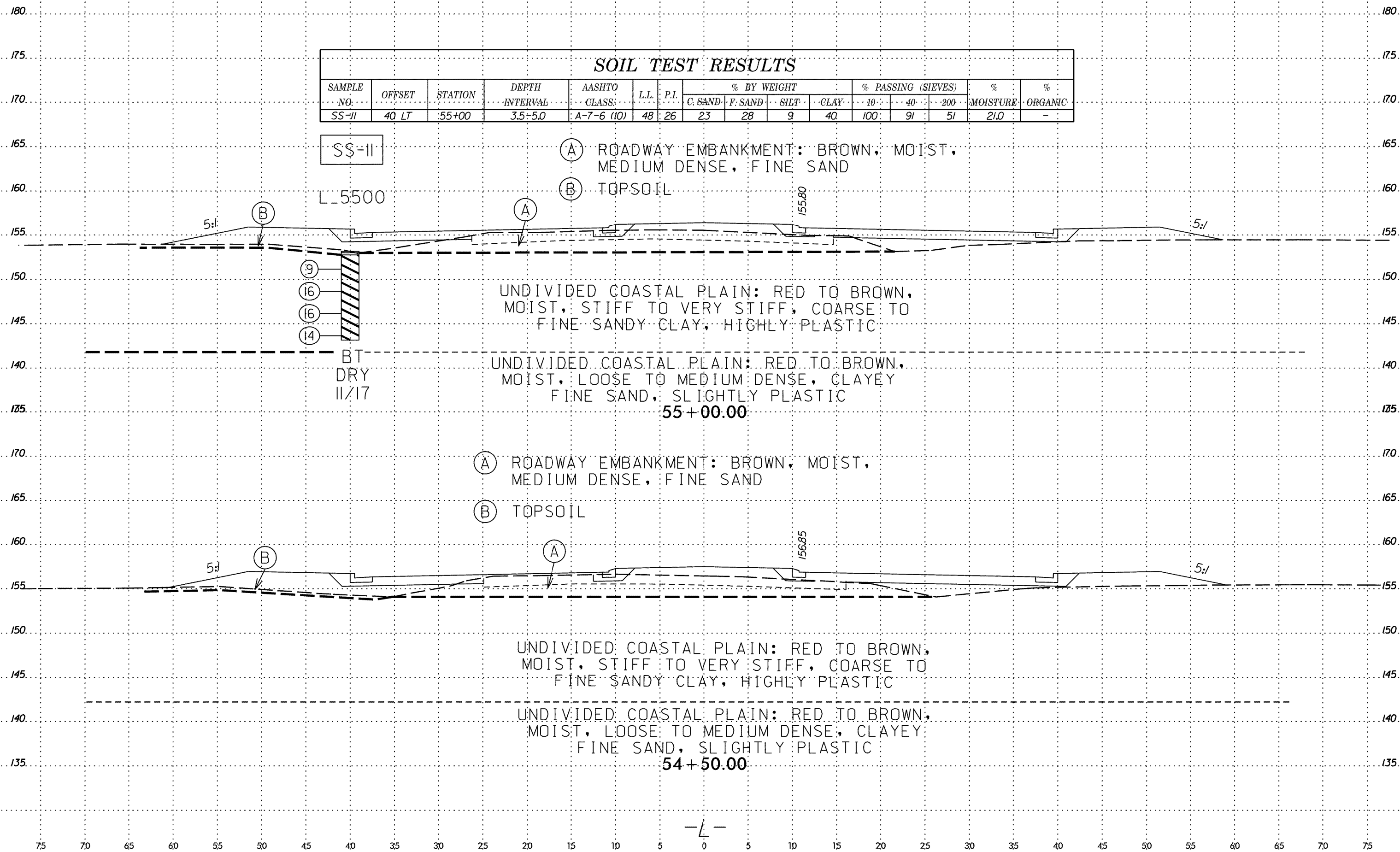
UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC

53+50.00



SOIL TEST RESULTS

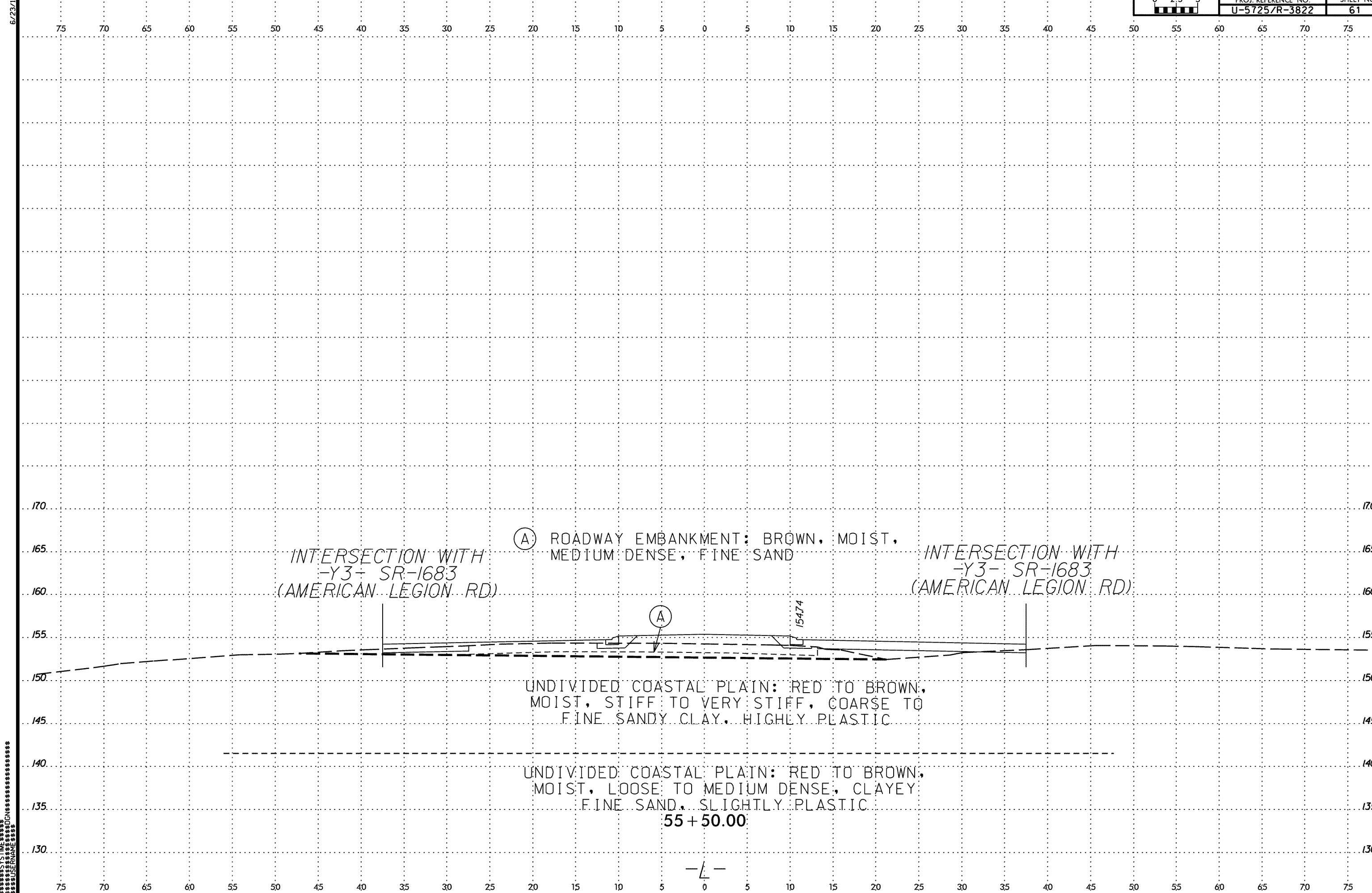
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-11	40 LT	55+00	3.5-5.0	A-7-6 (10)	48	26	23	28	9	40	100	91	51	21.0	-



 SYSTEM TIME *****

 SUBMISSION *****

 USER NAME *****



INTERSECTION WITH
-Y3- SR-1683
(AMERICAN LEGION RD)

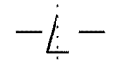
(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

INTERSECTION WITH
-Y3- SR-1683
(AMERICAN LEGION RD)

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF TO VERY STIFF, COARSE TO
FINE SANDY CLAY, HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC

55 + 50.00



SYSTEM TIME *****

SUBMISSION *****

SUBSERIAL *****

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-29	*CL	*13+00	6.0-7.5	A-7-6 (4)	42	16	17	40	8	35	100	93	44	15.8	-

*Note: Station and Offset are on -Y3-

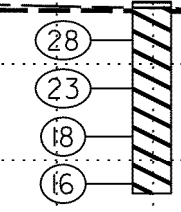
INTERSECTION WITH
-Y3- SR-1683
(AMERICAN LEGION RD)

- (A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND
- (B) TOPSOIL

INTERSECTION WITH
-Y3- SR-1683
(AMERICAN LEGION RD)

SS-29

Y3 1300
55+88



UNDIVIDED COASTAL PLAIN: BROWN TO RED, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC

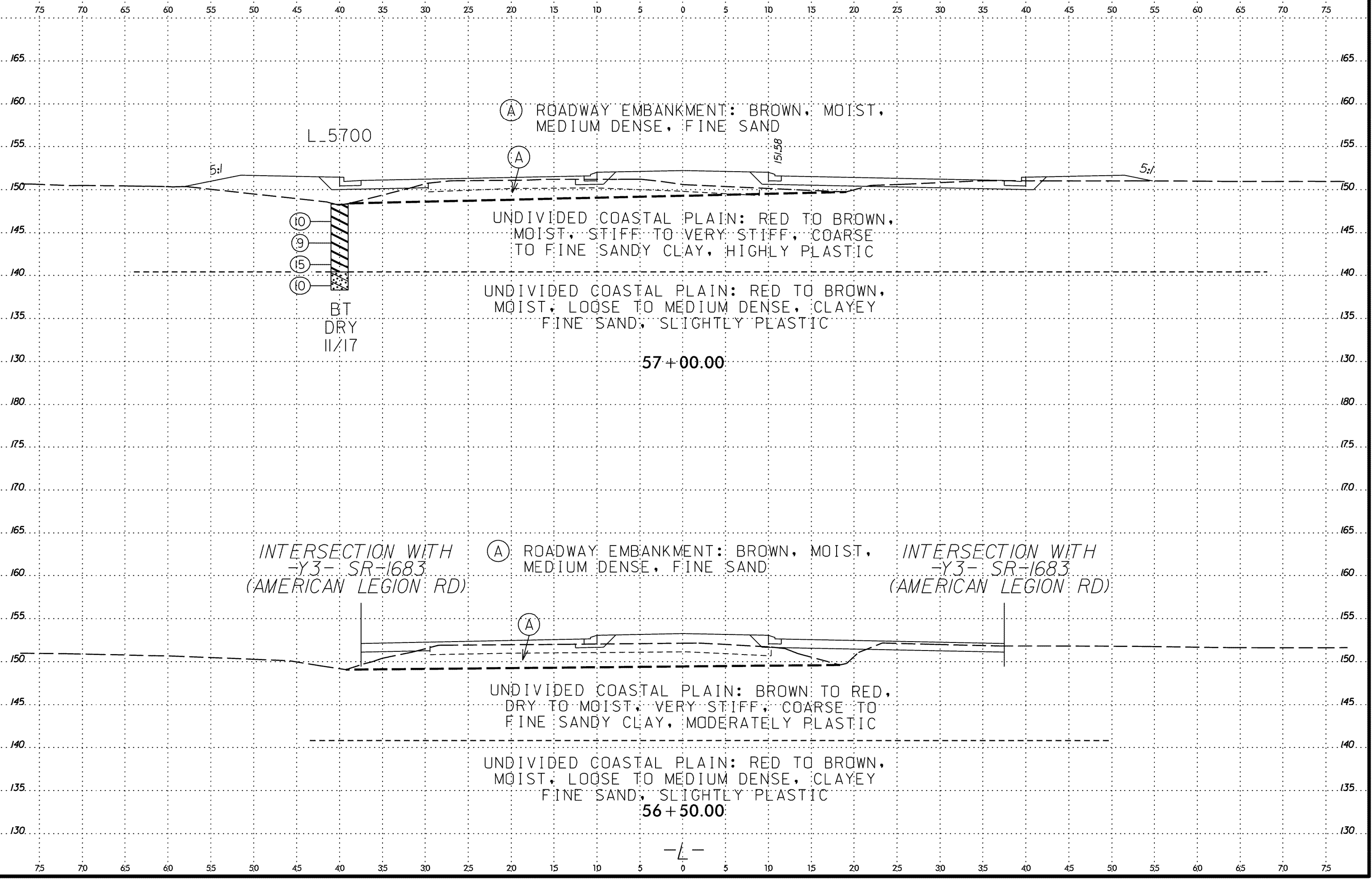
UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST, LOOSE TO MEDIUM DENSE, CLAYEY FINE SAND, SLIGHTLY PLASTIC

56+00.00

-L-

 SYSTEM TIME *****

 USER NAME *****



L_5700

5:1

15:58

5:1

10
9
15
10

BT DRY 11/17

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(A)

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST, STIFF TO VERY STIFF, COARSE TO FINE SANDY CLAY, HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST, LOOSE TO MEDIUM DENSE, CLAYEY FINE SAND, SLIGHTLY PLASTIC

57+00.00

INTERSECTION WITH -Y3- SR-1683 (AMERICAN LEGION RD)

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(A)

INTERSECTION WITH -Y3- SR-1683 (AMERICAN LEGION RD)

UNDIVIDED COASTAL PLAIN: BROWN TO RED, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN, MOIST, LOOSE TO MEDIUM DENSE, CLAYEY FINE SAND, SLIGHTLY PLASTIC

56+50.00

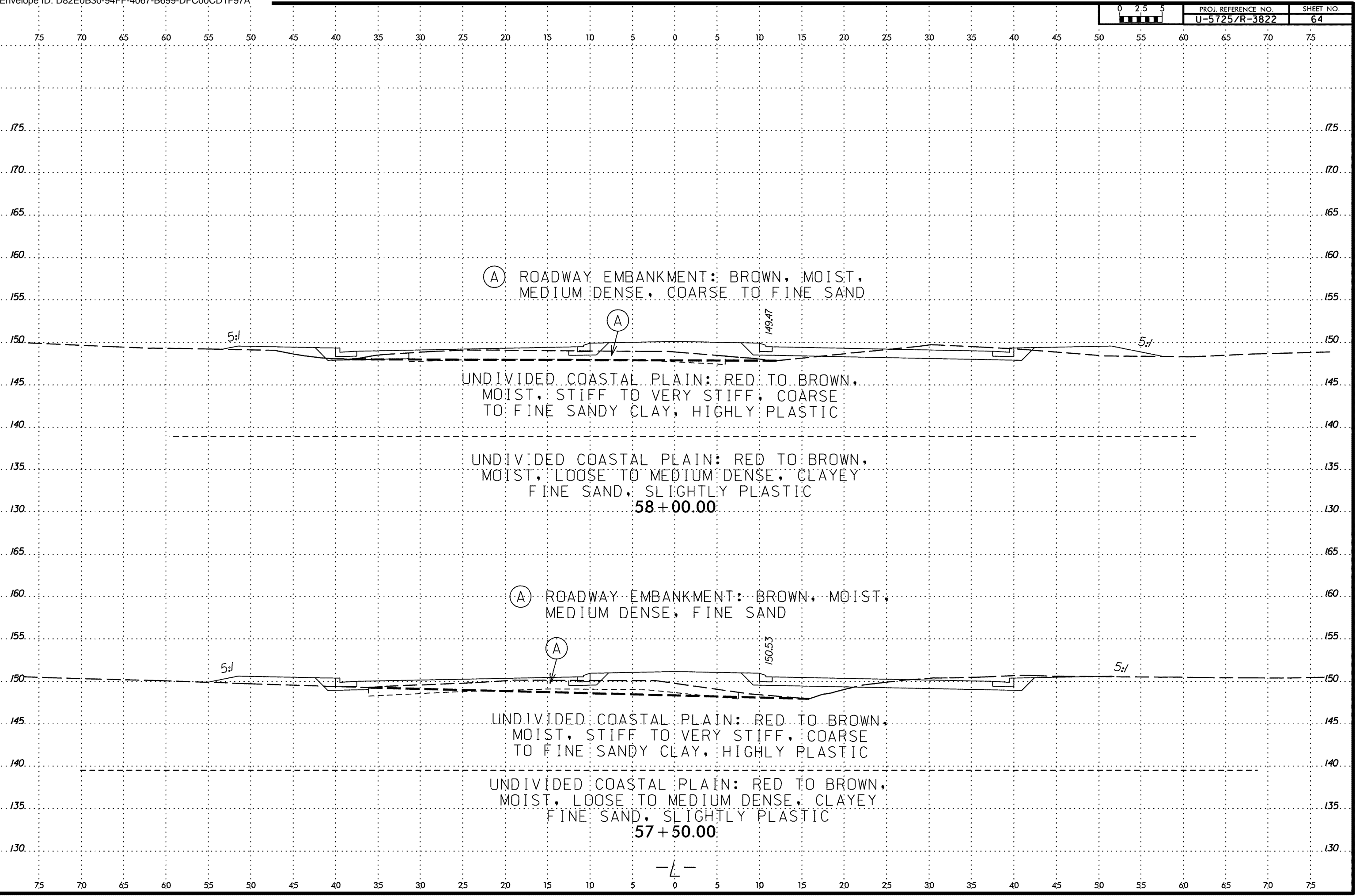
-L-

SYSTEM TIME *****

SUBMISSION *****

SUBURNAME *****

6/23/16
SYSTEM
DATE
TIME
DRAWN
BY
CHECKED
BY
SUPERVISOR



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

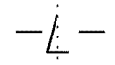
UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF TO VERY STIFF, COARSE
TO FINE SANDY CLAY, HIGHLY PLASTIC

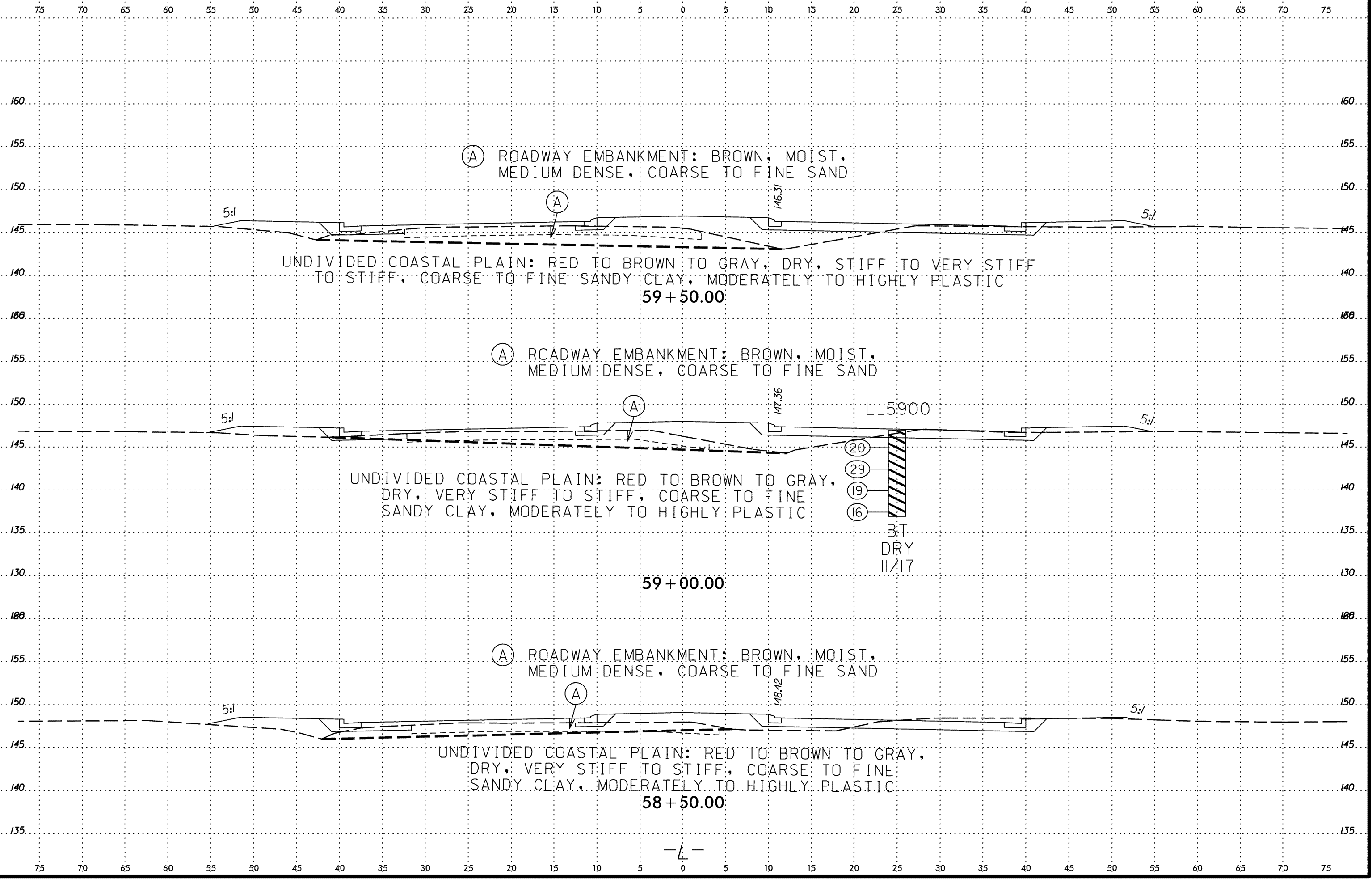
UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC
58+00.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, STIFF TO VERY STIFF, COARSE
TO FINE SANDY CLAY, HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
FINE SAND, SLIGHTLY PLASTIC
57+50.00





(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY, DRY, STIFF TO VERY STIFF
TO STIFF, COARSE TO FINE SANDY CLAY, MODERATELY TO HIGHLY PLASTIC
59 + 50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
DRY, VERY STIFF TO STIFF, COARSE TO FINE
SANDY CLAY, MODERATELY TO HIGHLY PLASTIC

59 + 00.00

L=5900

B.T
DRY
11/17

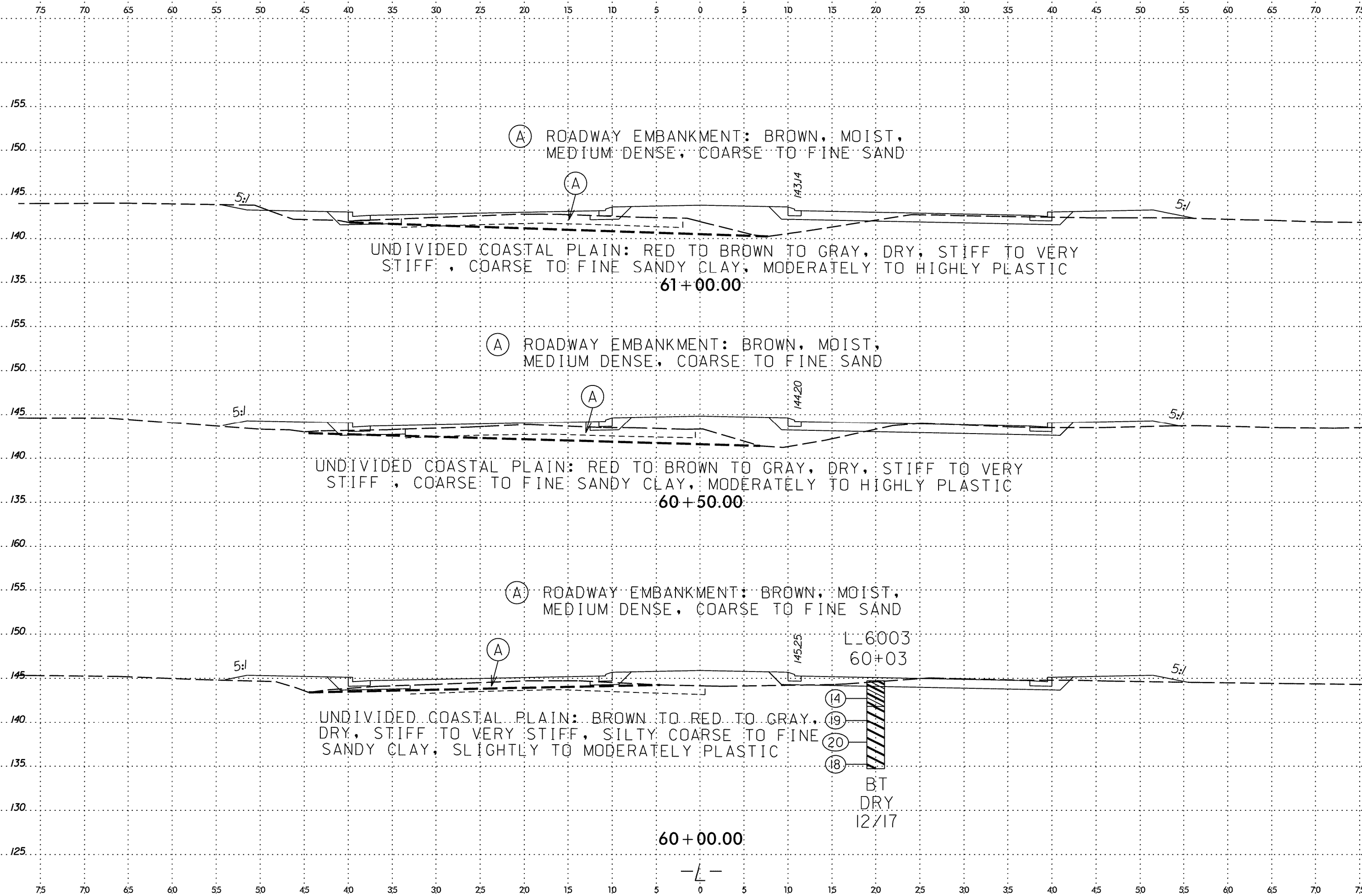
(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
DRY, VERY STIFF TO STIFF, COARSE TO FINE
SANDY CLAY, MODERATELY TO HIGHLY PLASTIC
58 + 50.00

-L-

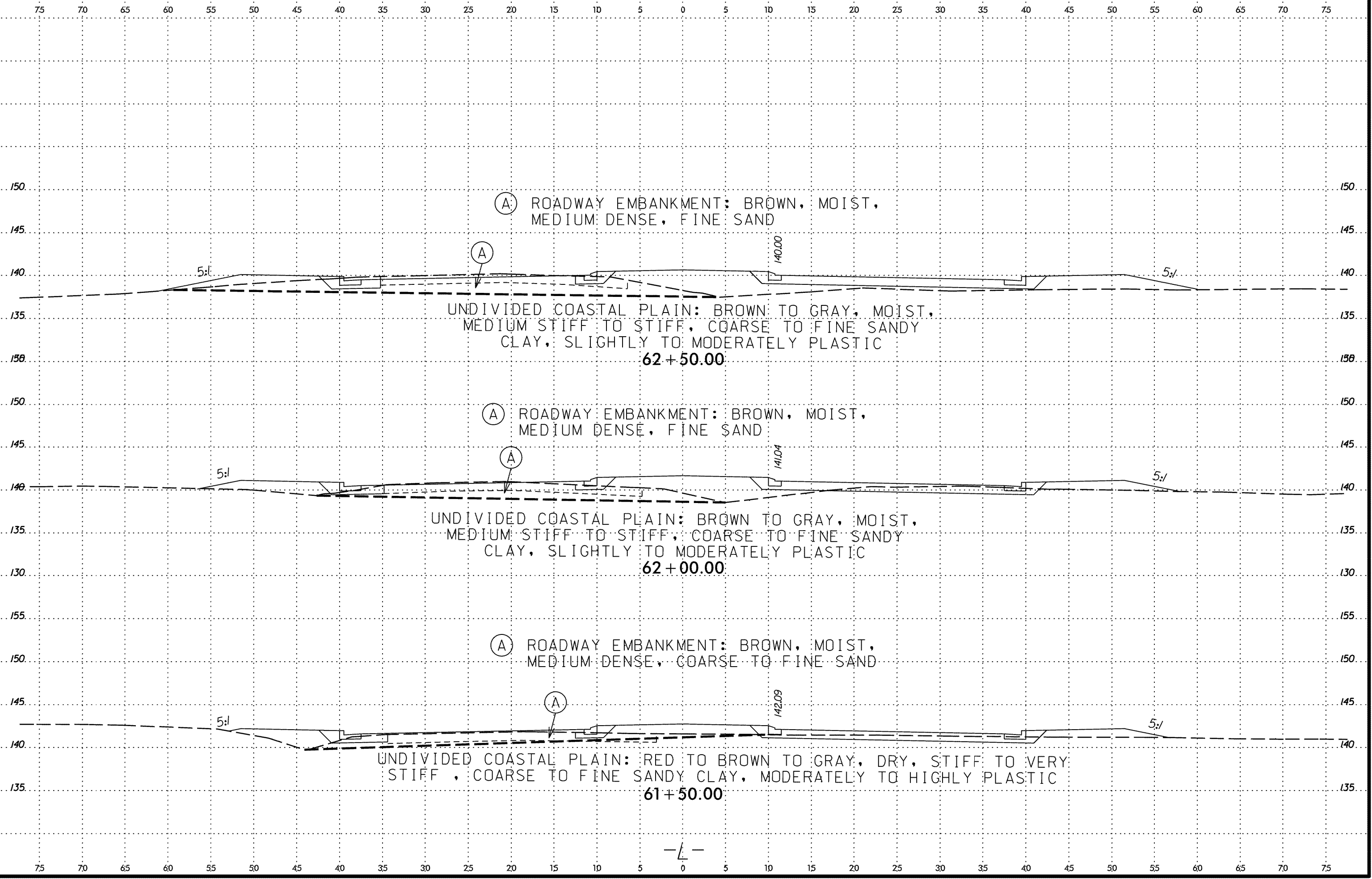
SYSTEM TIME

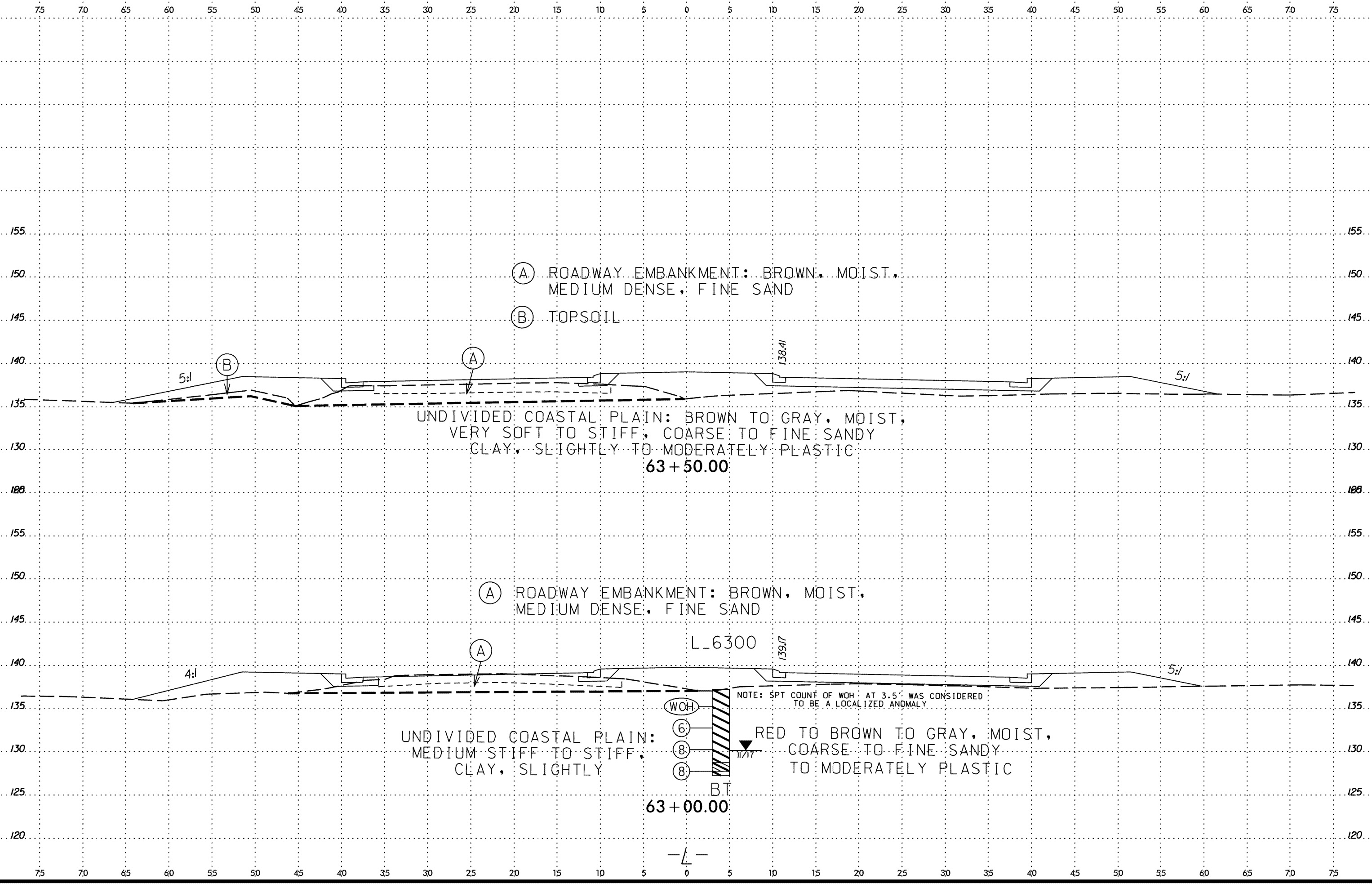
 USER NAME



SYSTEMS

SERIALS





(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

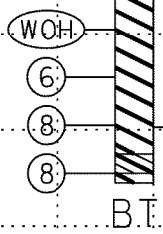
(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, MOIST, VERY SOFT TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
63 + 50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

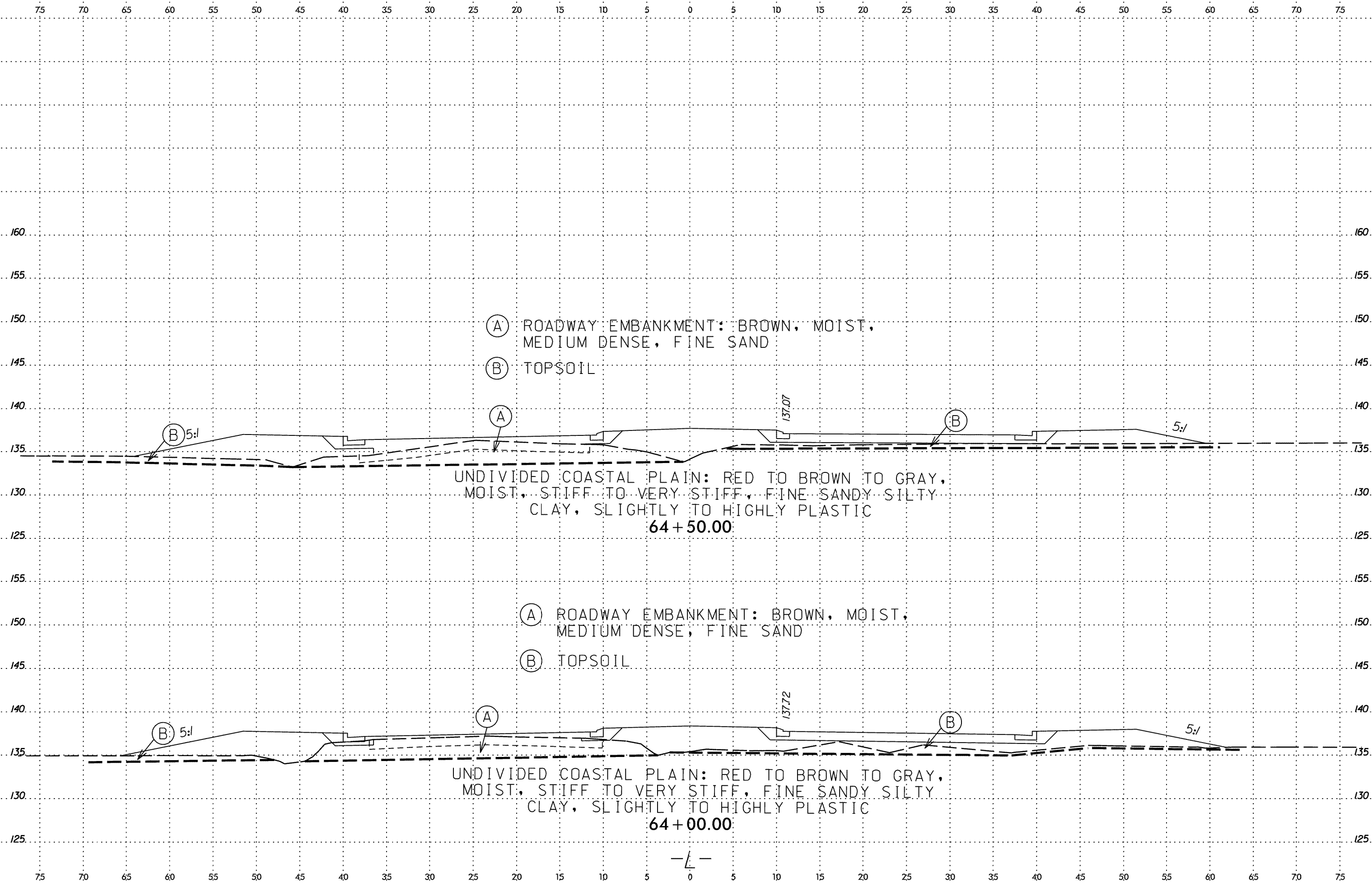
L 6300

UNDIVIDED COASTAL PLAIN: MEDIUM STIFF TO STIFF, CLAY, SLIGHTLY TO MODERATELY PLASTIC
63 + 00.00



NOTE: SPT COUNT OF WOH AT 3.5' WAS CONSIDERED TO BE A LOCALIZED ANOMALY

SYSTEM TIME
 USER NAME
 6/23/16



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
MOIST, STIFF TO VERY STIFF, FINE SANDY SILTY
CLAY, SLIGHTLY TO HIGHLY PLASTIC
64 + 50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

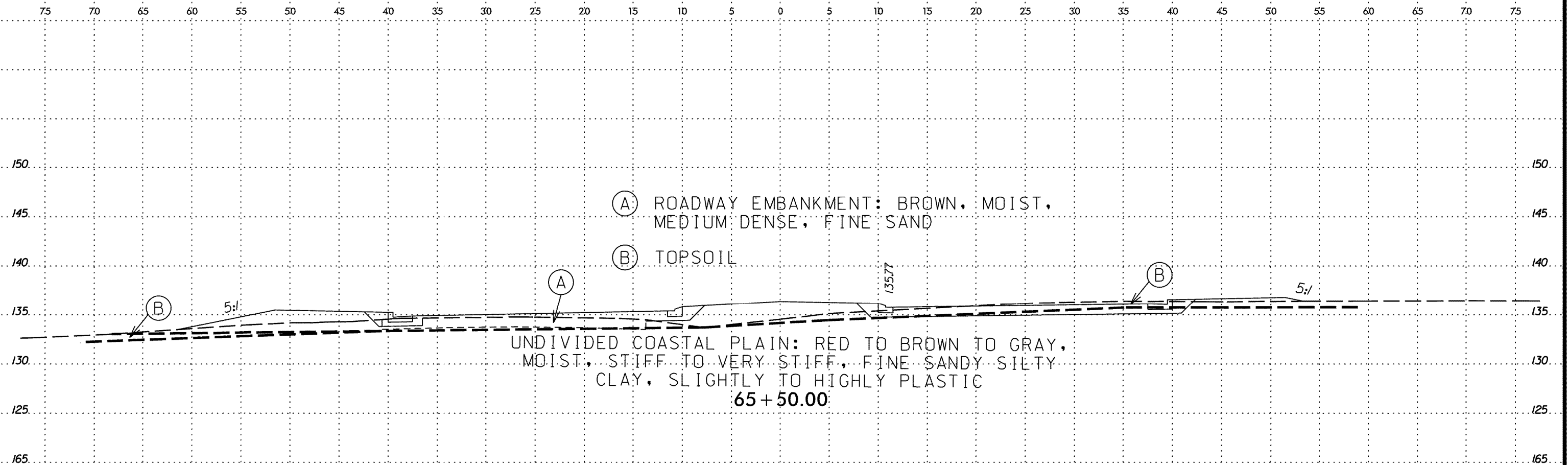
(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
MOIST, STIFF TO VERY STIFF, FINE SANDY SILTY
CLAY, SLIGHTLY TO HIGHLY PLASTIC
64 + 00.00

— L —

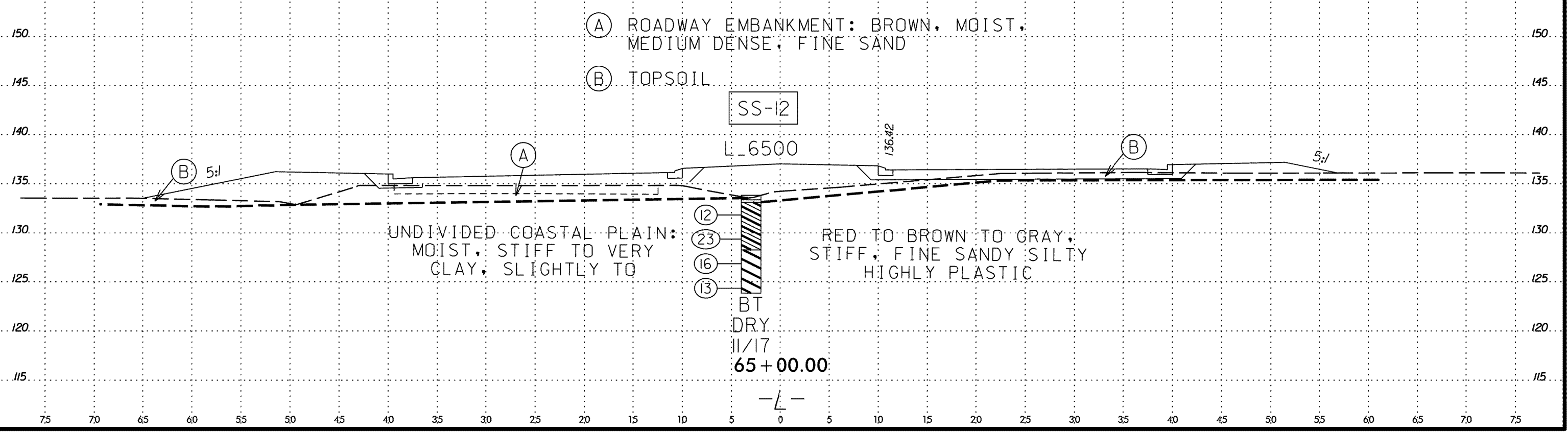
SYSTEM TIME *****

SUBURNAME *****



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10:	40:	200:		
SS-12	3 LT	65+00	6.0-7.5	A-7-6 (27)	55	34	.6	21	26	47	100	98	79	21.8	-



SYSTEM TIME
 USER NAME

6/23/16



PROJ. REFERENCE NO.
U-5725/R-3822

SHEET NO.
71

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

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST TO WET, VERY STIFF TO SOFT, FINE SANDY SILTY CLAY, SLIGHTLY TO HIGHLY PLASTIC

66+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY, MOIST, STIFF TO VERY STIFF, FINE SANDY SILTY CLAY, SLIGHTLY TO HIGHLY PLASTIC

66+00.00

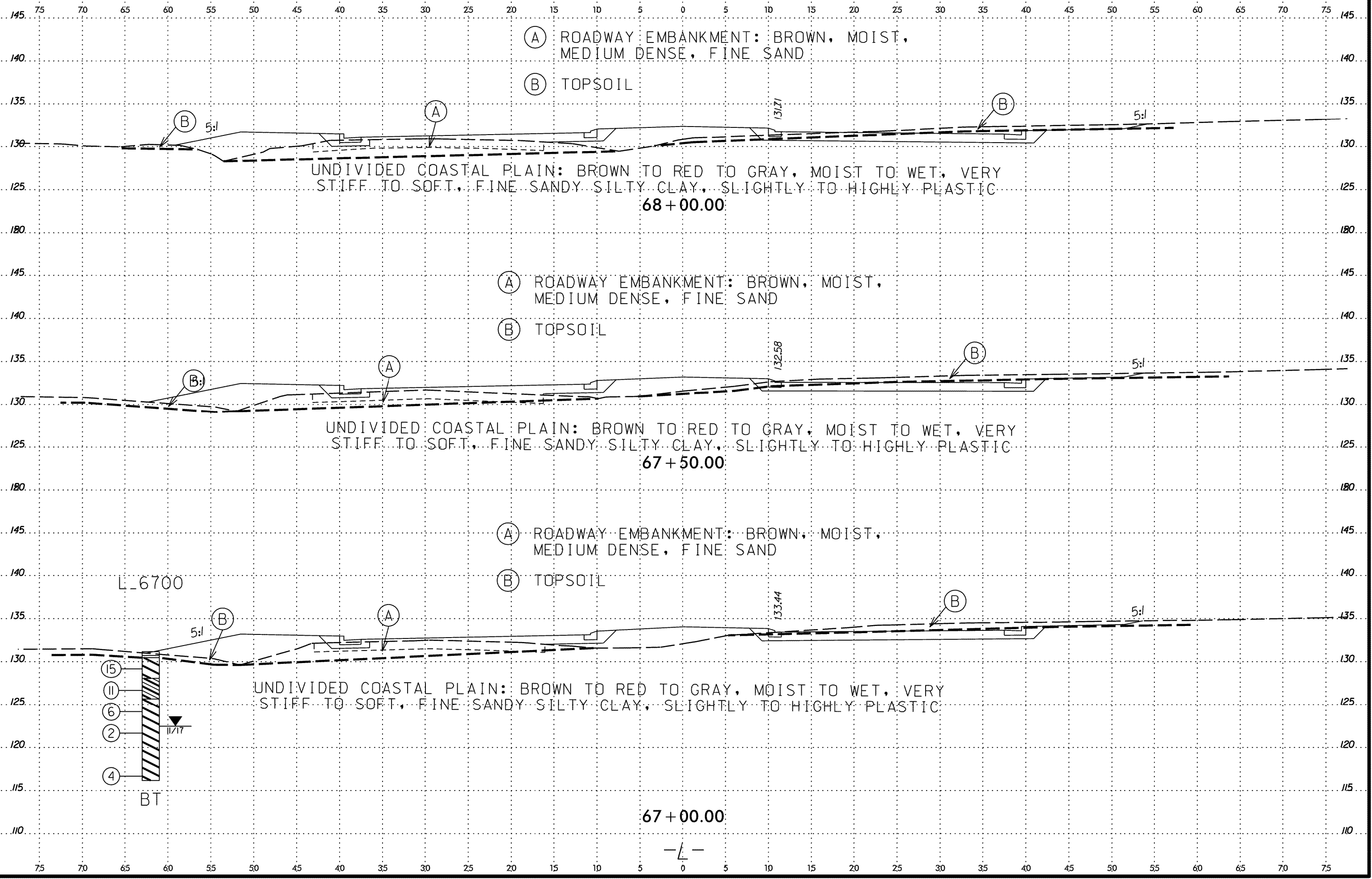


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

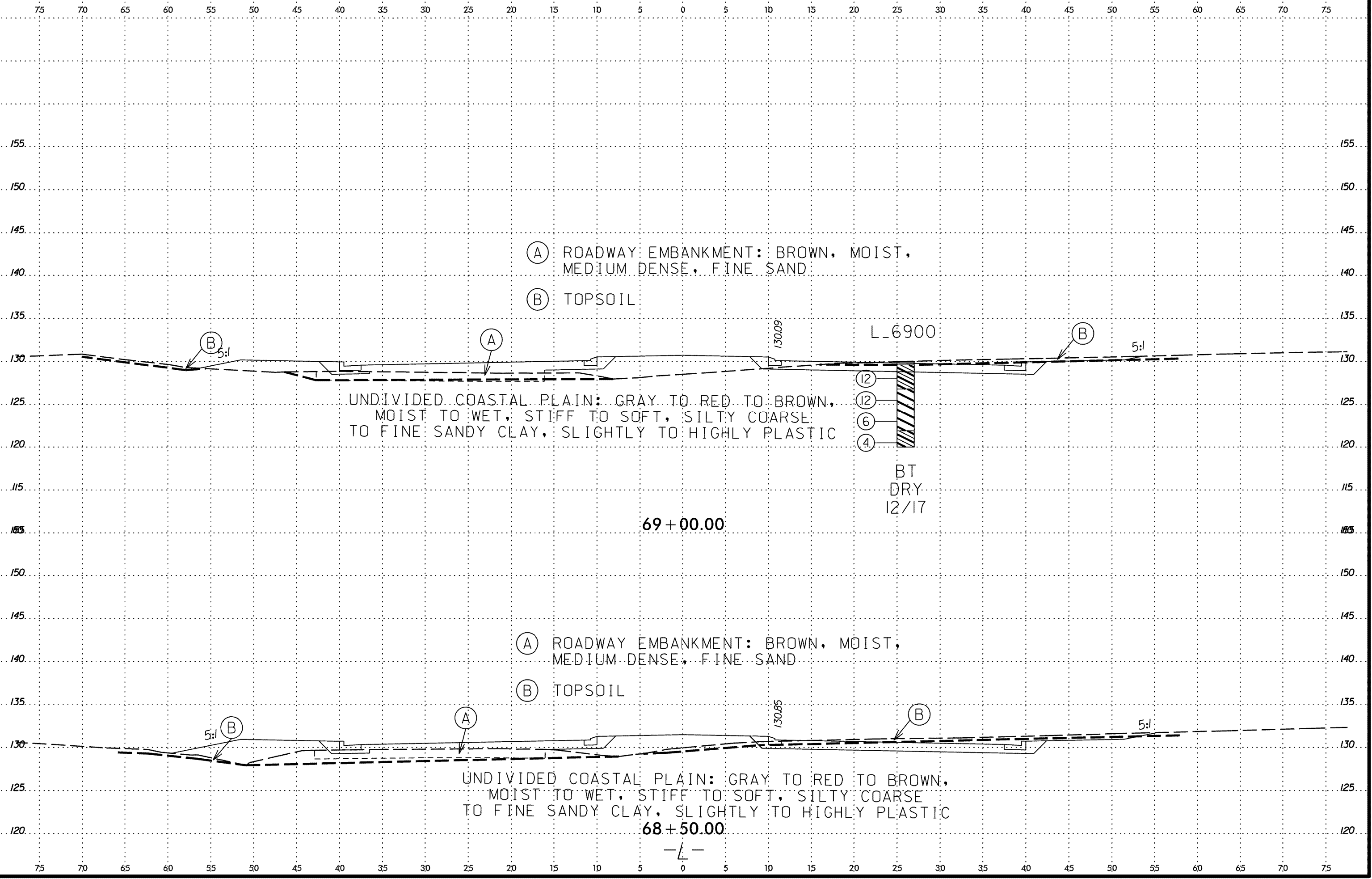
SYSTEM TIME *****

SUBPROJECT *****

SUBSHEET *****

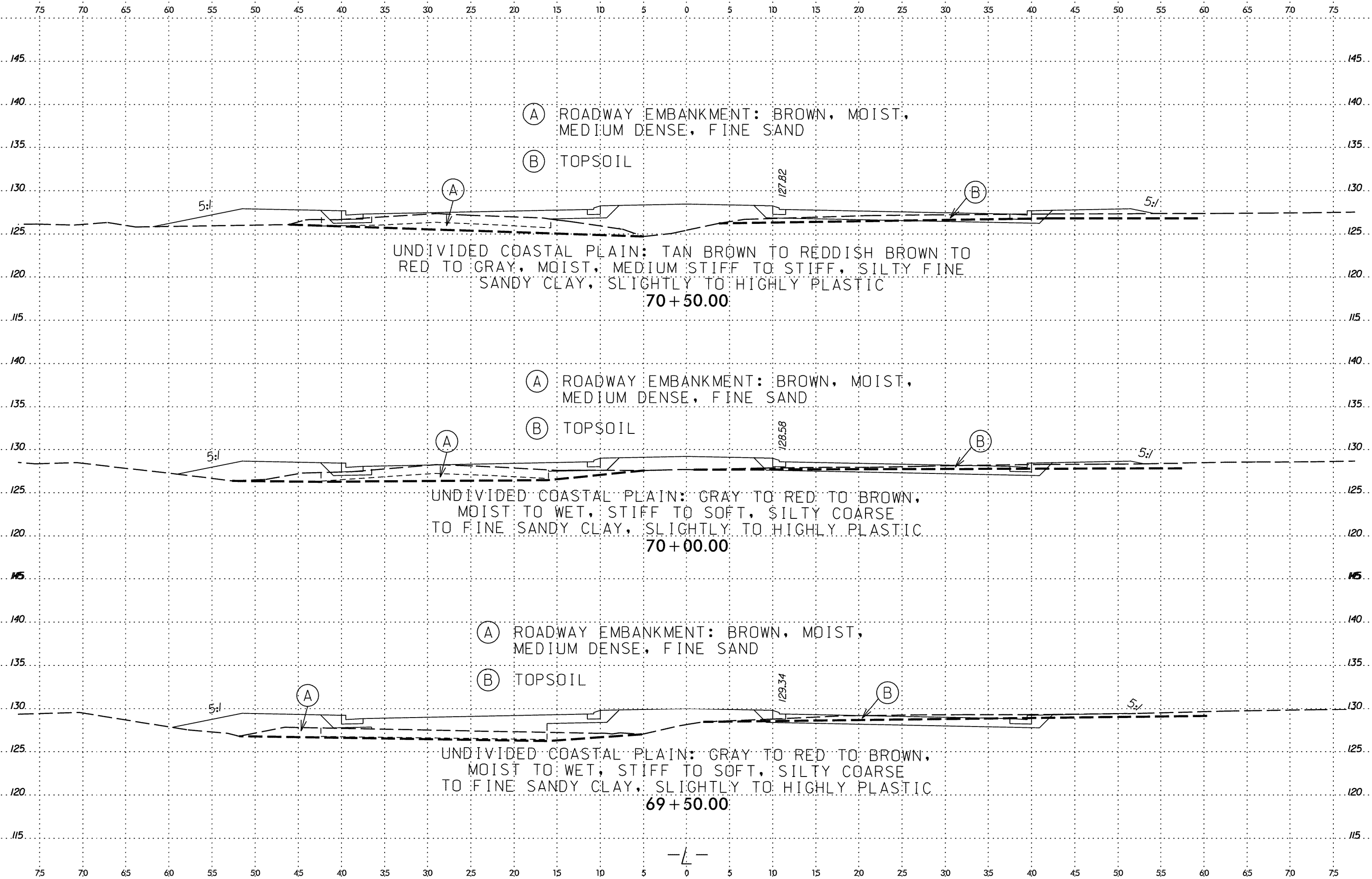


SYSTEM TIME
 USER NAME

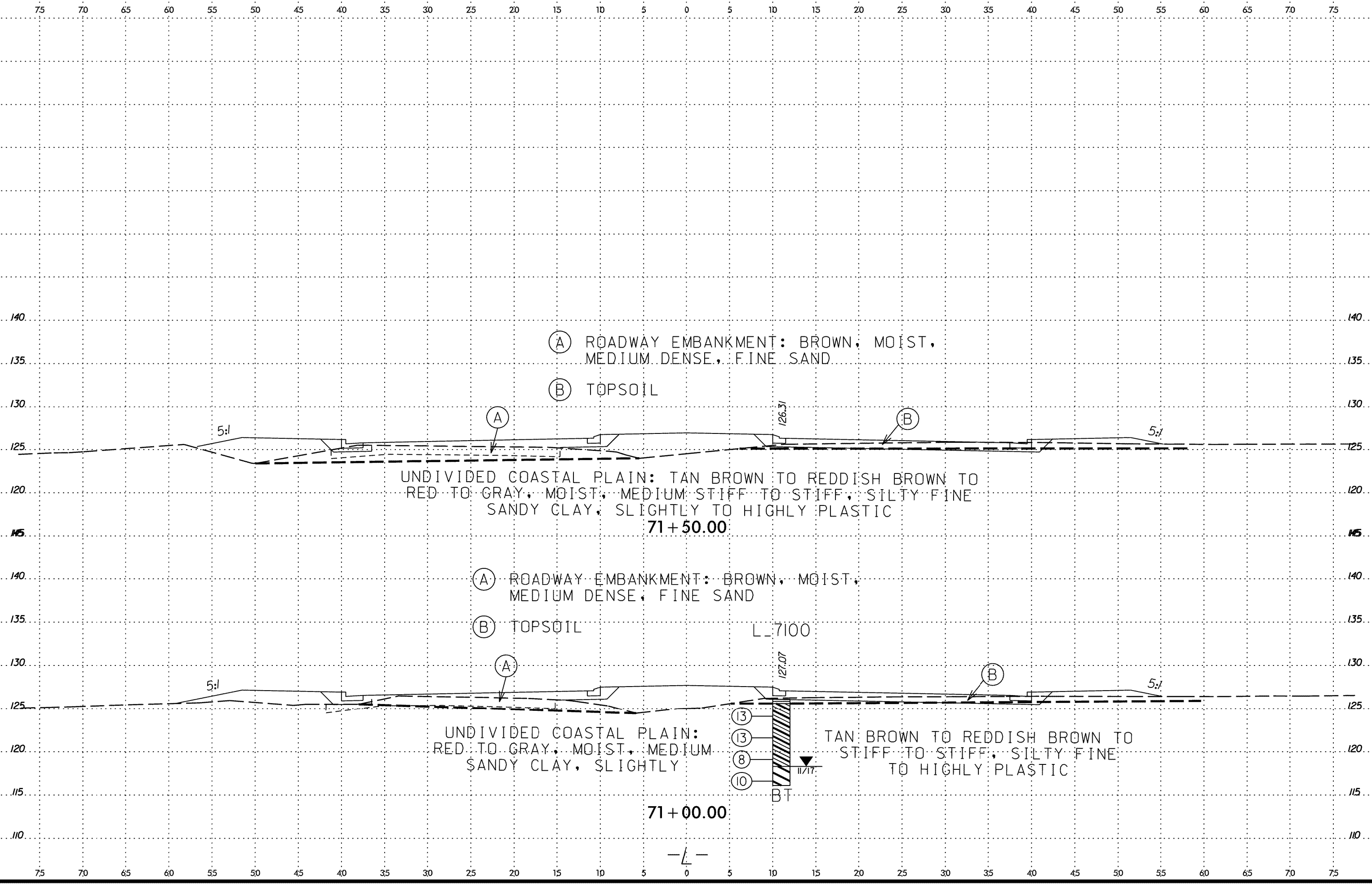


 SYSTEM TIME *****

 USER NAME *****



SYSTEM TIME
DATE
USER NAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

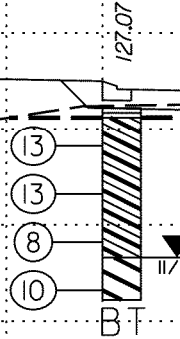
UNDIVIDED COASTAL PLAIN: TAN BROWN TO REDDISH BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC
71+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: RED TO GRAY, MOIST, MEDIUM SANDY CLAY, SLIGHTLY

TAN BROWN TO REDDISH BROWN TO STIFF TO STIFF, SILTY FINE TO HIGHLY PLASTIC



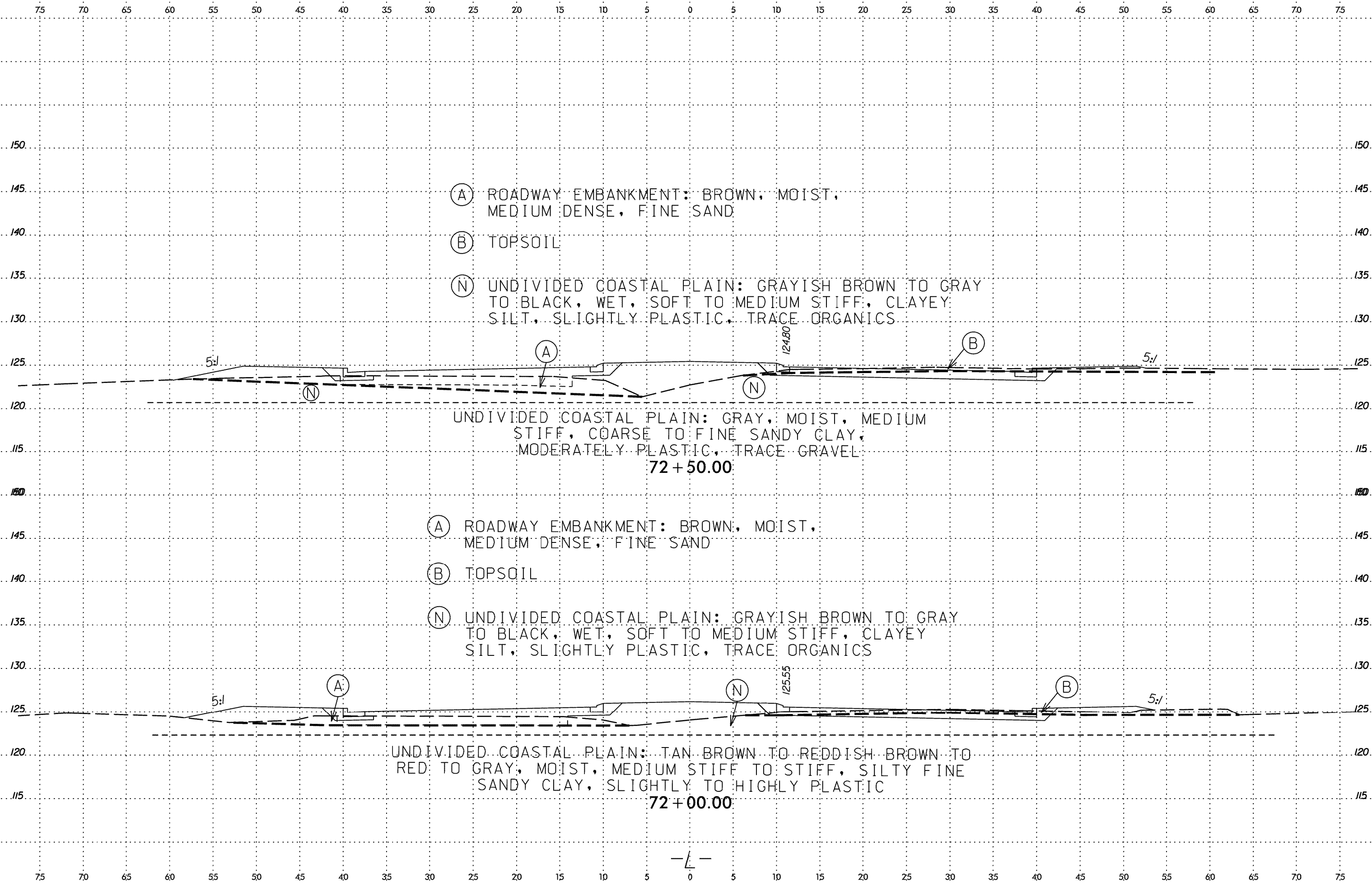
71+00.00

-L-

6/23/16

 SYSTEM TIME *****

 USER NAME *****



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

(N) UNDIVIDED COASTAL PLAIN: GRAYISH BROWN TO GRAY TO BLACK, WET, SOFT TO MEDIUM STIFF, CLAYEY SILT, SLIGHTLY PLASTIC, TRACE ORGANICS

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC, TRACE GRAVEL
72 + 50.00

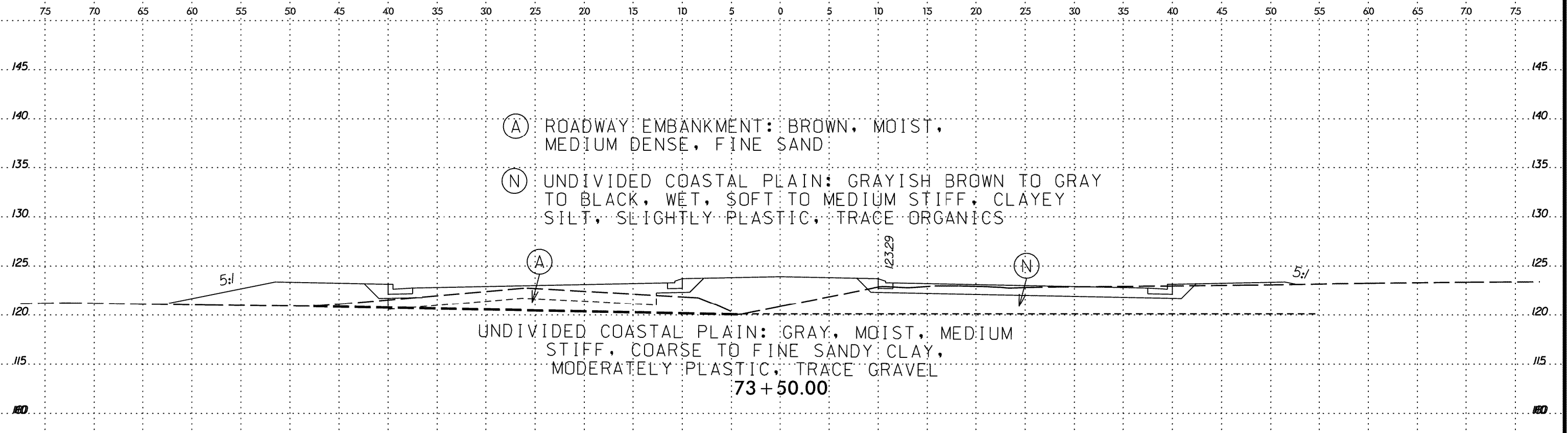
(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, FINE SAND

(B) TOPSOIL

(N) UNDIVIDED COASTAL PLAIN: GRAYISH BROWN TO GRAY TO BLACK, WET, SOFT TO MEDIUM STIFF, CLAYEY SILT, SLIGHTLY PLASTIC, TRACE ORGANICS

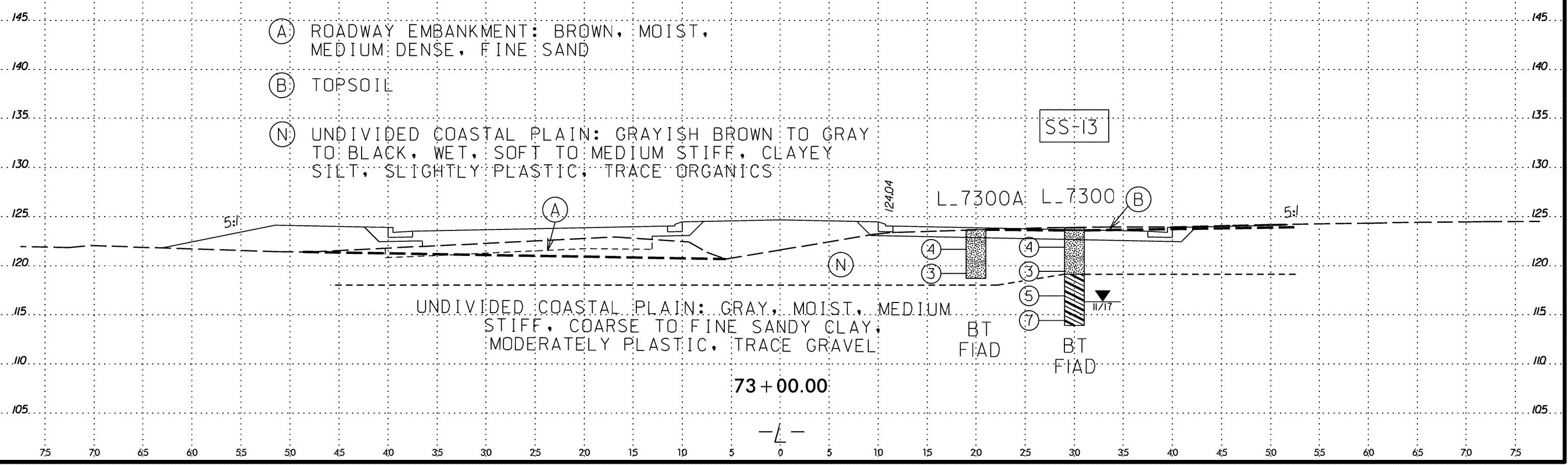
UNDIVIDED COASTAL PLAIN: TAN BROWN TO REDDISH BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC
72 + 00.00

6/23/16
SYSTEM
SUBNAME

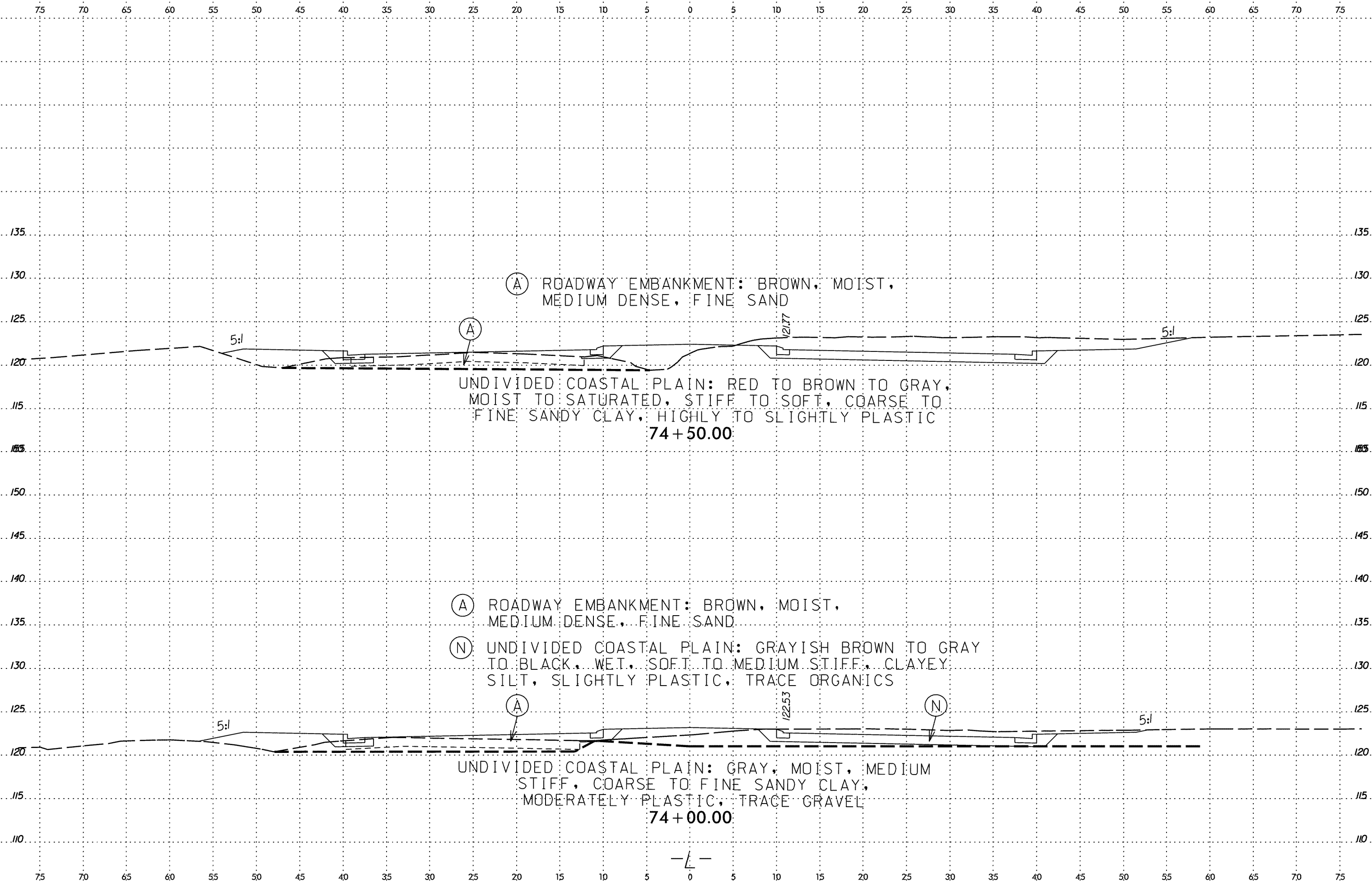


SOIL TEST RESULTS

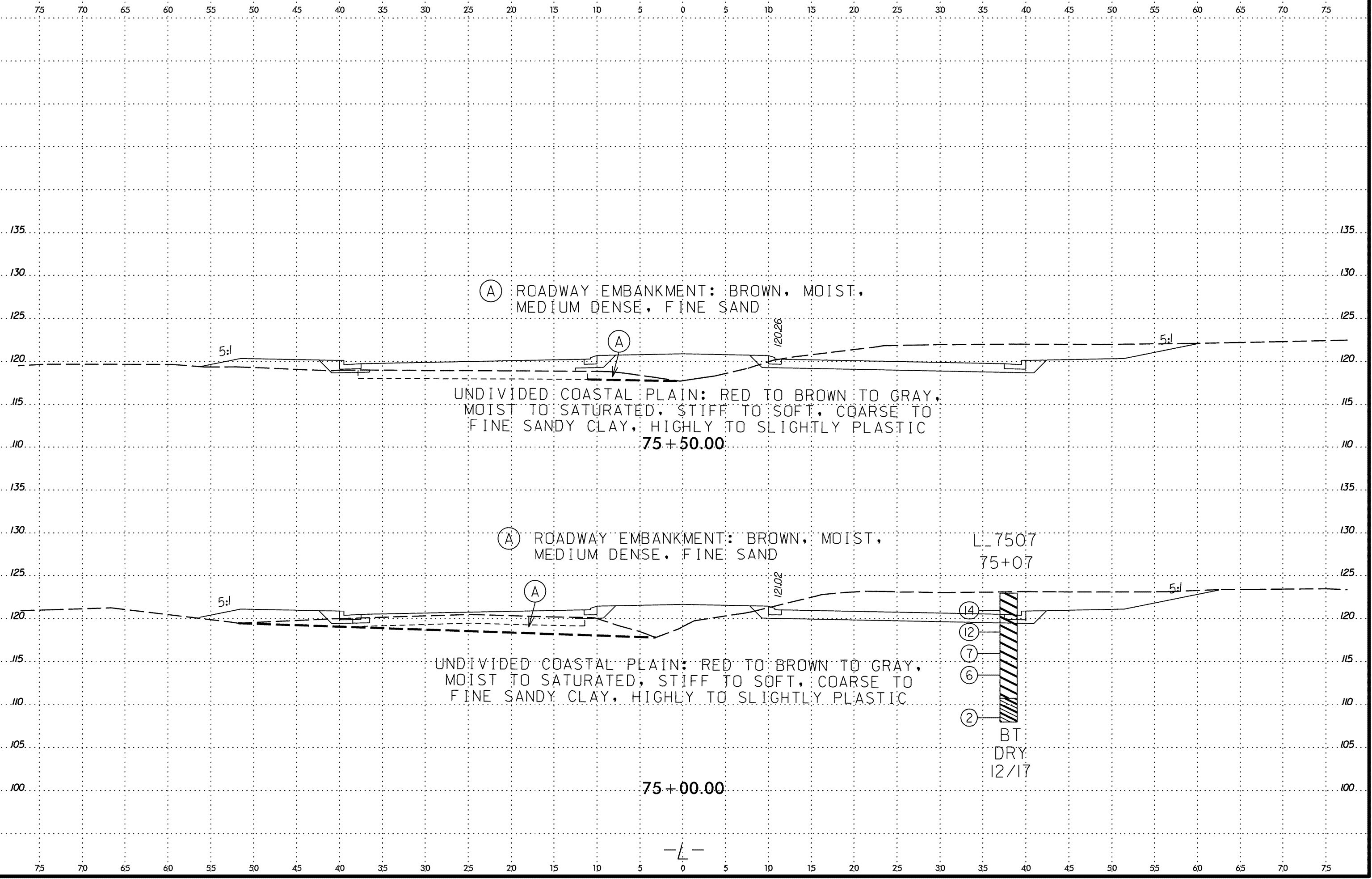
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-13	30 RT	73+00	1.0-2.5	A-4 (2)	21	5	3	20	53	24	100	98	84	23.8	-



SYSTEM TIME
 USER NAME



6/23/16
SYSTEMS
SUBSERNAME



(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
MOIST TO SATURATED, STIFF TO SOFT, COARSE TO
FINE SANDY CLAY, HIGHLY TO SLIGHTLY PLASTIC
75+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST,
MEDIUM DENSE, FINE SAND

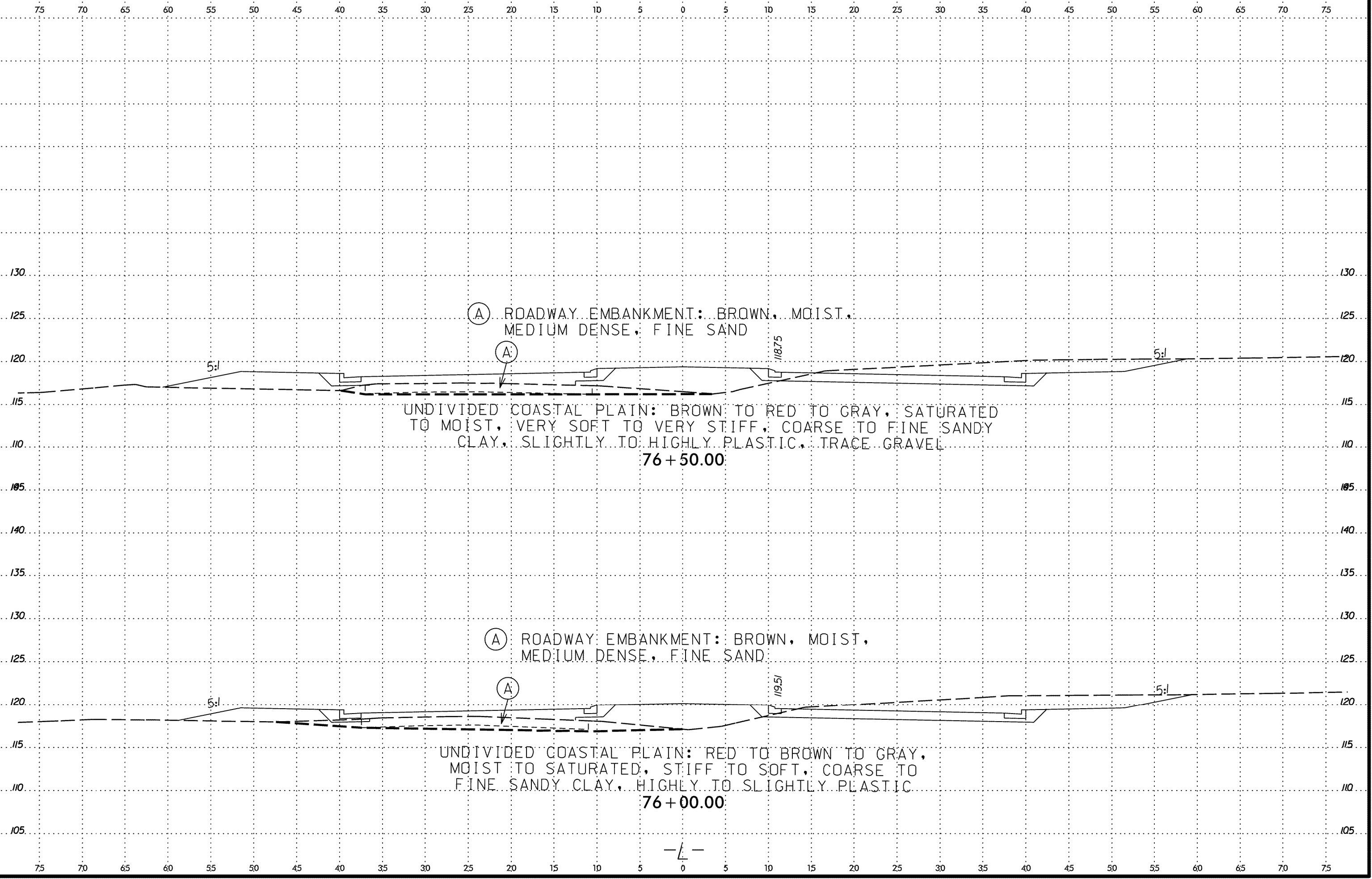
UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
MOIST TO SATURATED, STIFF TO SOFT, COARSE TO
FINE SANDY CLAY, HIGHLY TO SLIGHTLY PLASTIC
75+00.00

L_7507
75+07

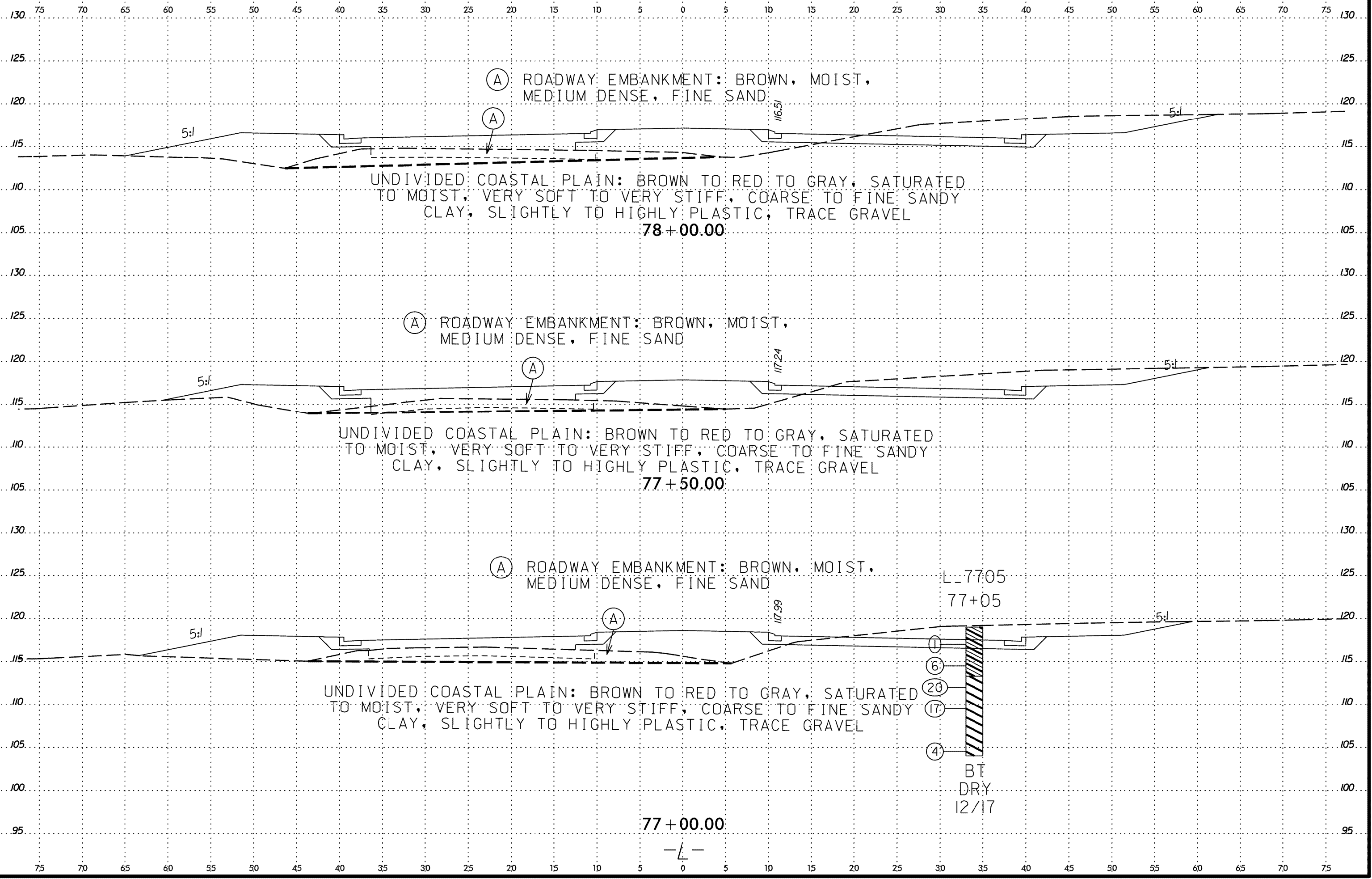
- (14)
- (12)
- (7)
- (6)
- (2)

BT
DRY
12/17

SYSTEM TIME *****
 USER NAME *****



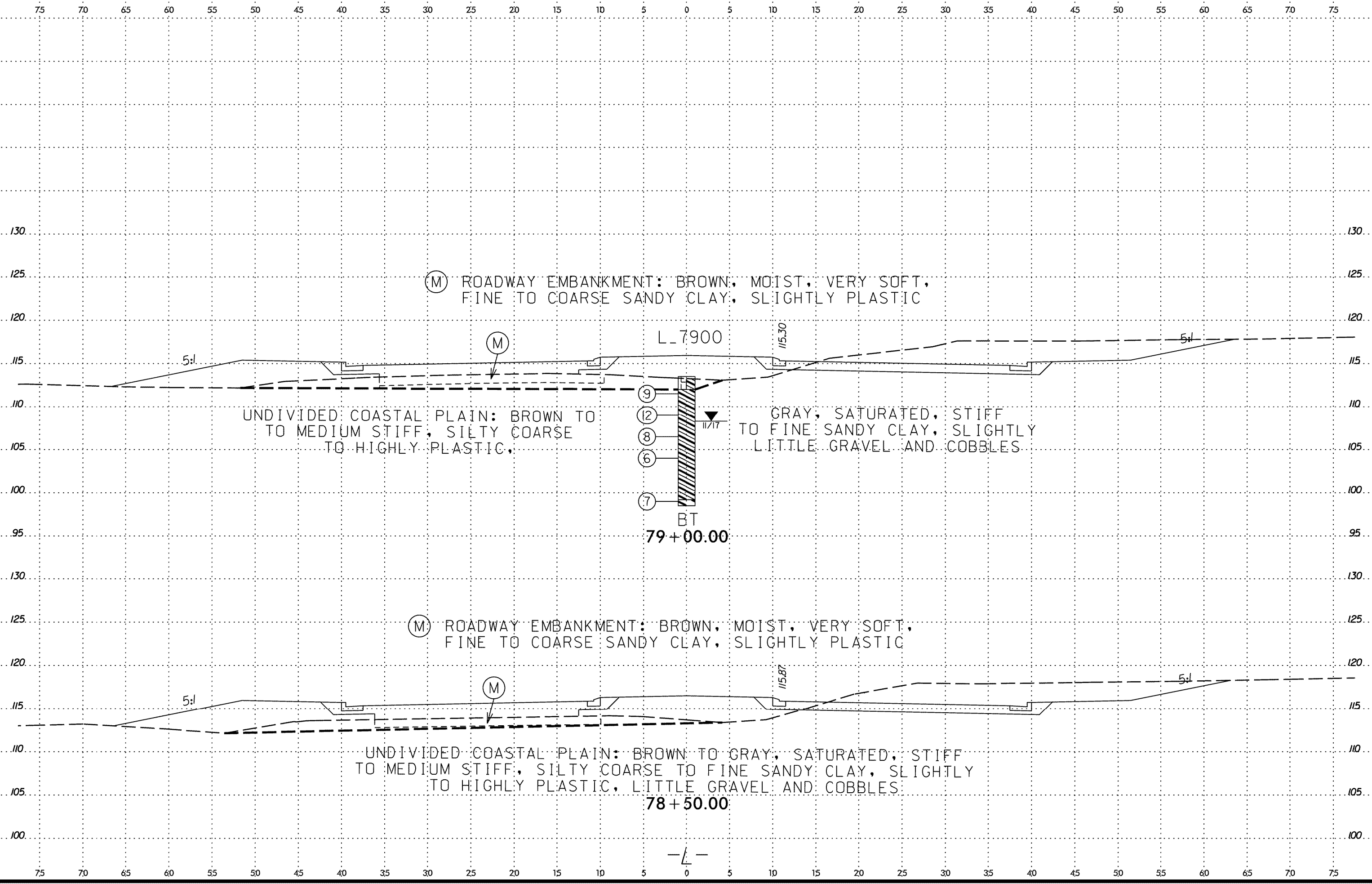
SYSTEM
 6/23/16
 SUBURNAME



6/23/16

 SYSTEM TIME *****

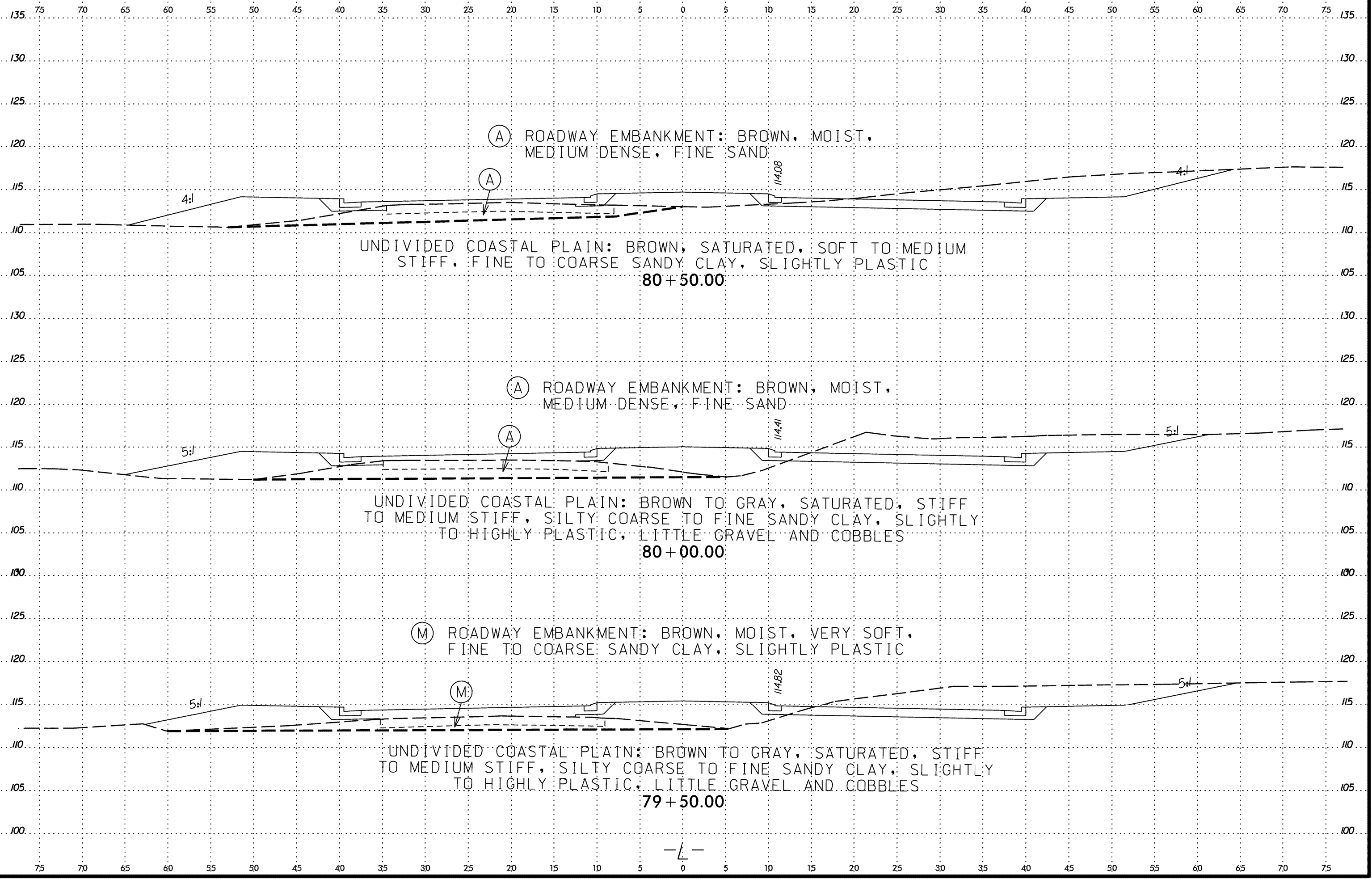
 USER *****



6/23/16

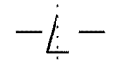
 SYSTEM TIME *****

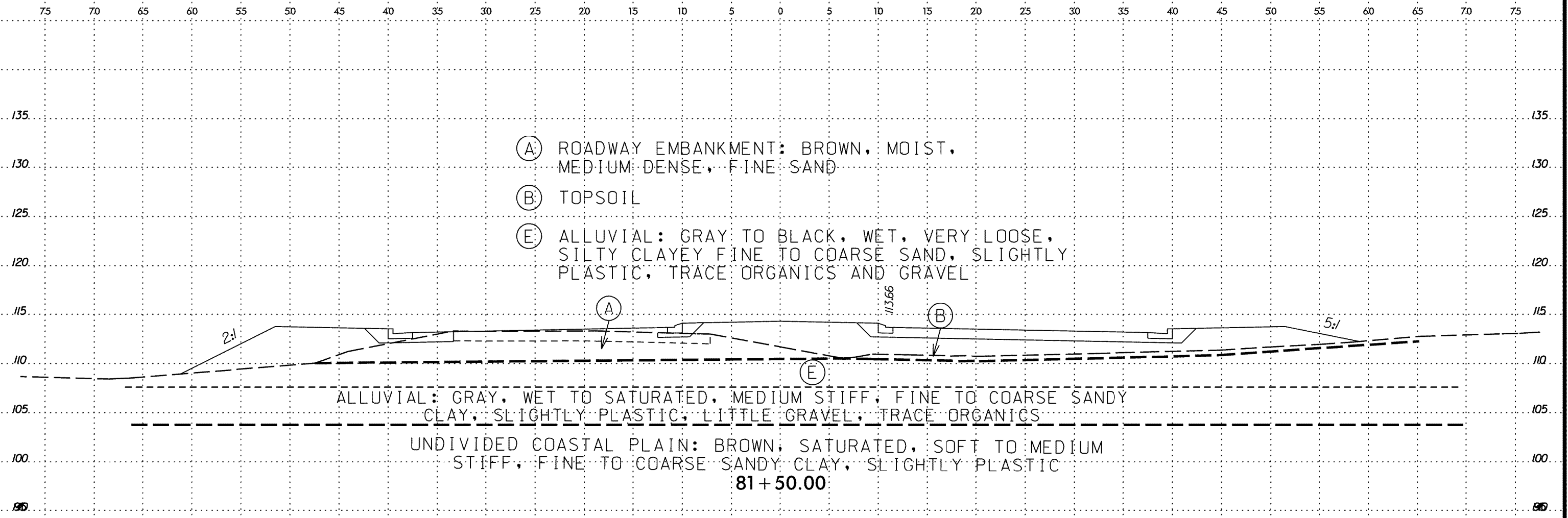
 USER NAME *****



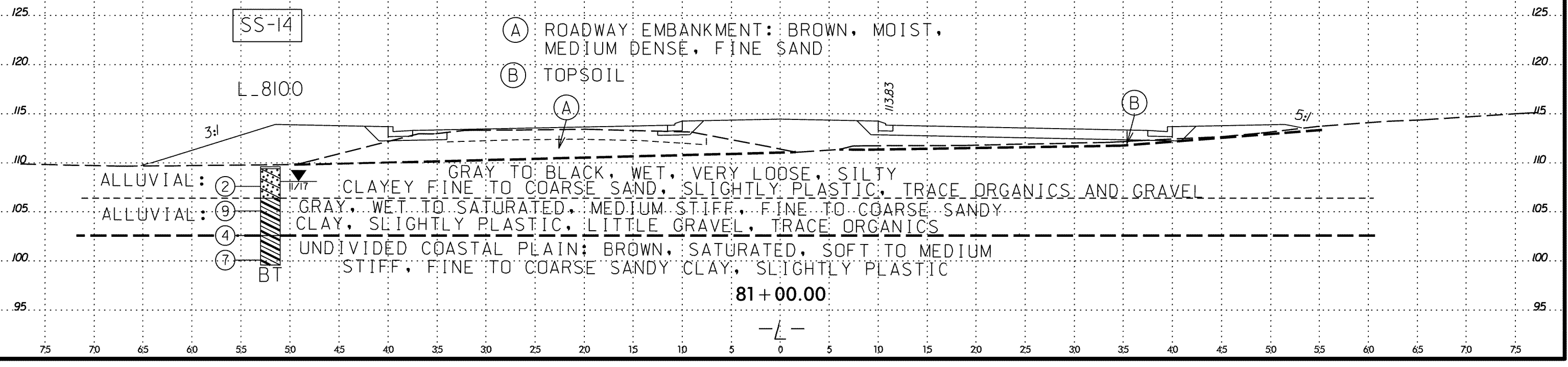
 SYSTEM TIME *****

 USER NAME *****

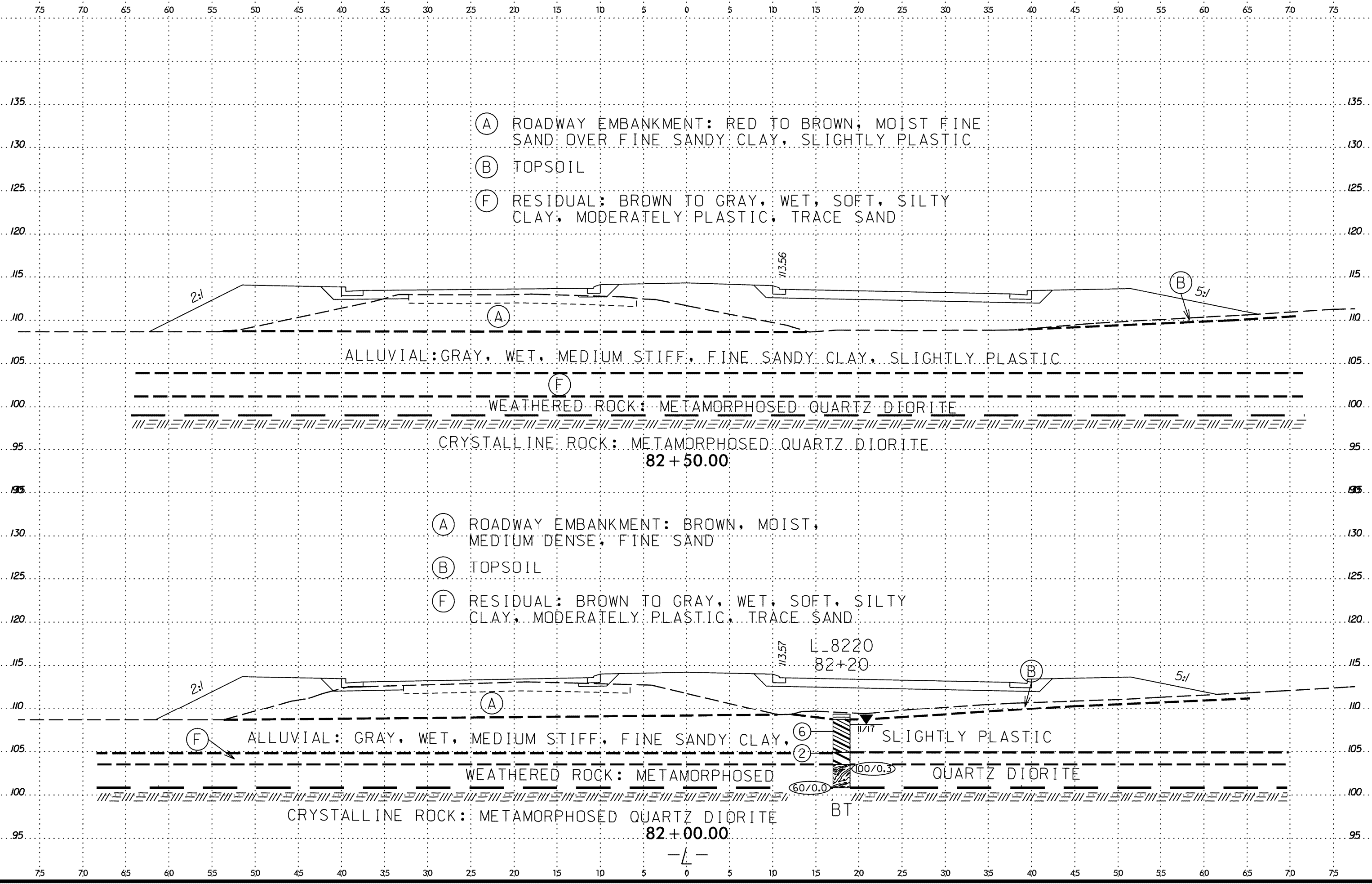




SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-14	52' LT	81+00	10'-2.5'	A-2-6 (0)	26	11	42	27	13	18	79	57	27	18.1	2.3

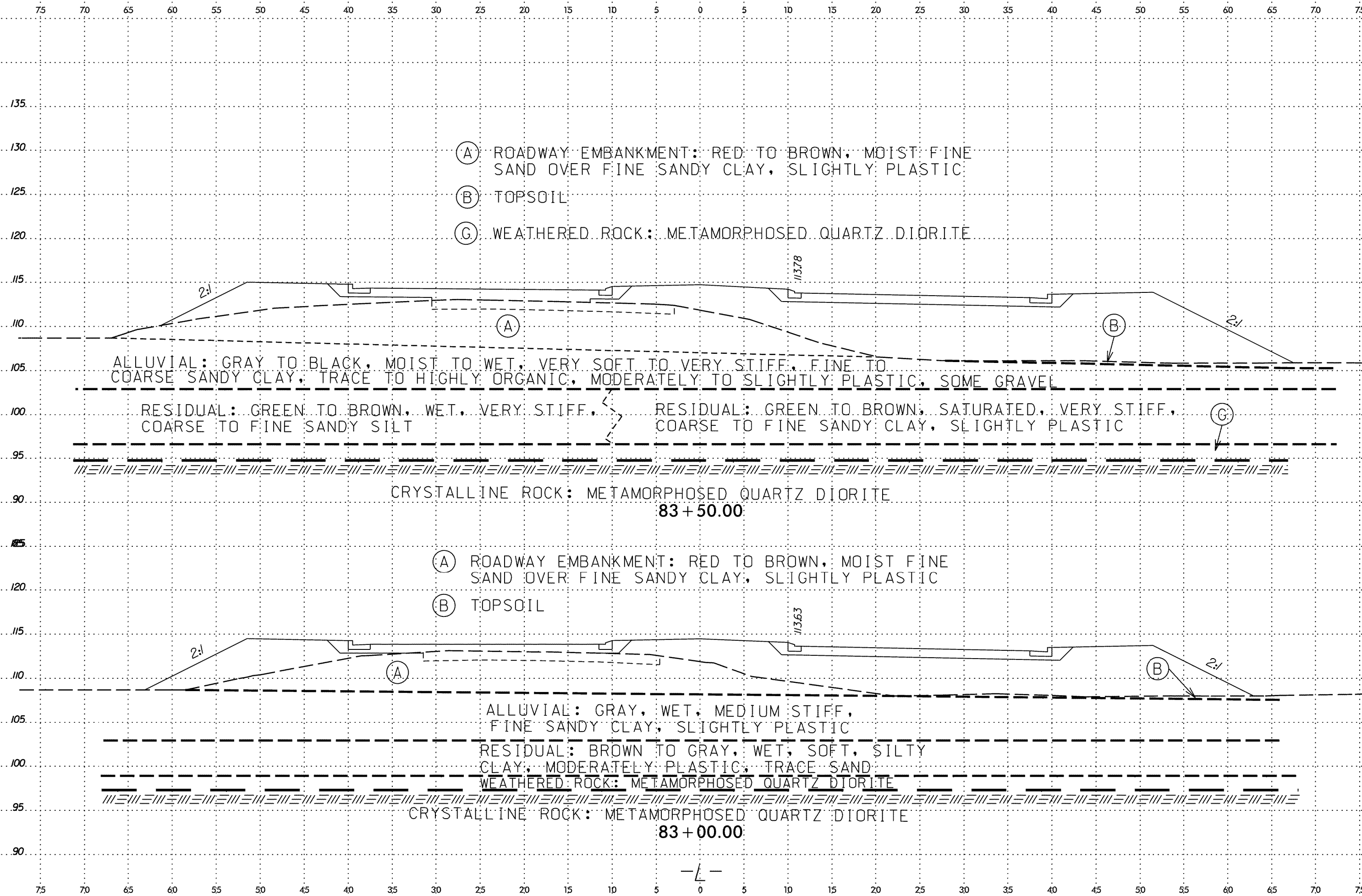


SYSTEM TIME
 USER NAME

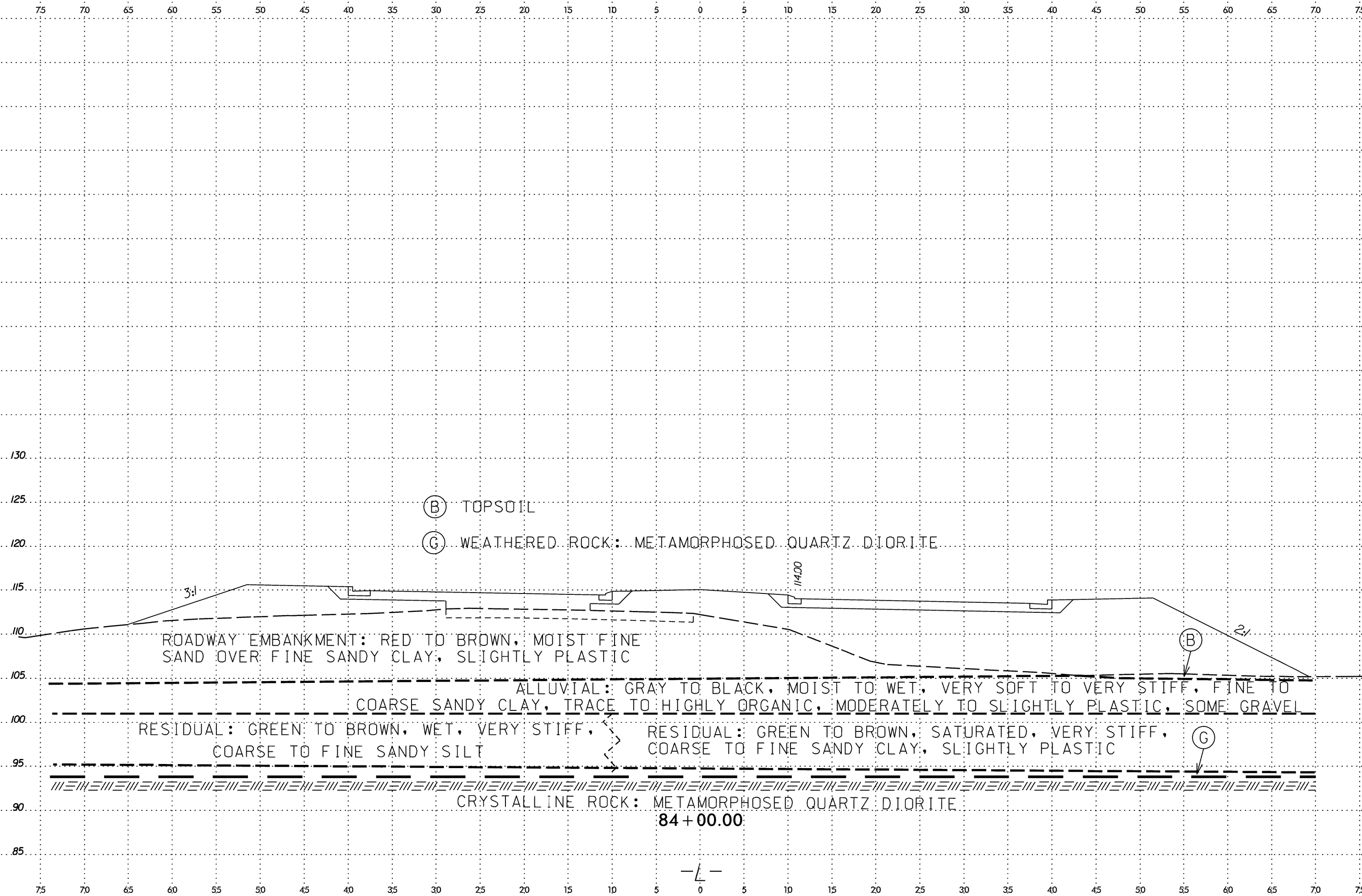


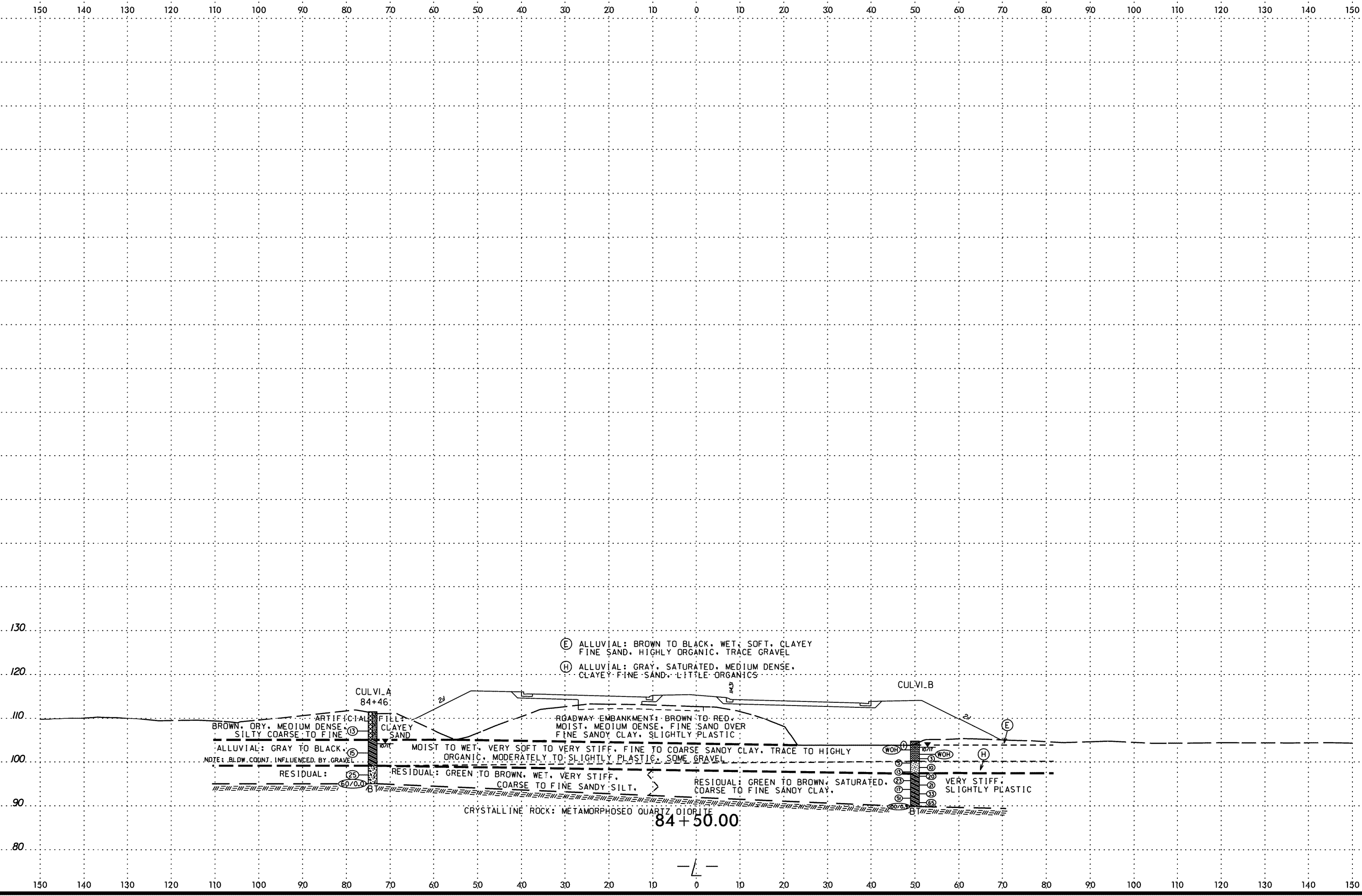
SYSTEMS

 SUBSERNAME



SYSTEM TIME
USER NAME





- (E) ALLUVIAL: BROWN TO BLACK, WET, SOFT, CLAYEY FINE SAND, HIGHLY ORGANIC, TRACE GRAVEL
- (H) ALLUVIAL: GRAY, SATURATED, MEDIUM DENSE, CLAYEY FINE SAND, LITTLE ORGANICS

CUL.VI.A
84+46

CUL.VI.B

BROWN, DRY, MEDIUM DENSE, SILTY COARSE TO FINE

ARTIFICIAL FILL: CLAYEY SAND

ROADWAY EMBANKMENT: BROWN TO RED MOIST, MEDIUM DENSE, FINE SAND OVER FINE SANDY CLAY, SLIGHTLY PLASTIC

ALLUVIAL: GRAY TO BLACK, NOTE: BLDW. COUNT. INFLUENCED BY GRAVEL

MOIST TO WET, VERY SOFT TO VERY STIFF, ORGANIC, MODERATELY TO SLIGHTLY PLASTIC, FINE TO COARSE SANDY CLAY, TRACE TO HIGHLY

VERY STIFF, SLIGHTLY PLASTIC

RESIDUAL: (25)

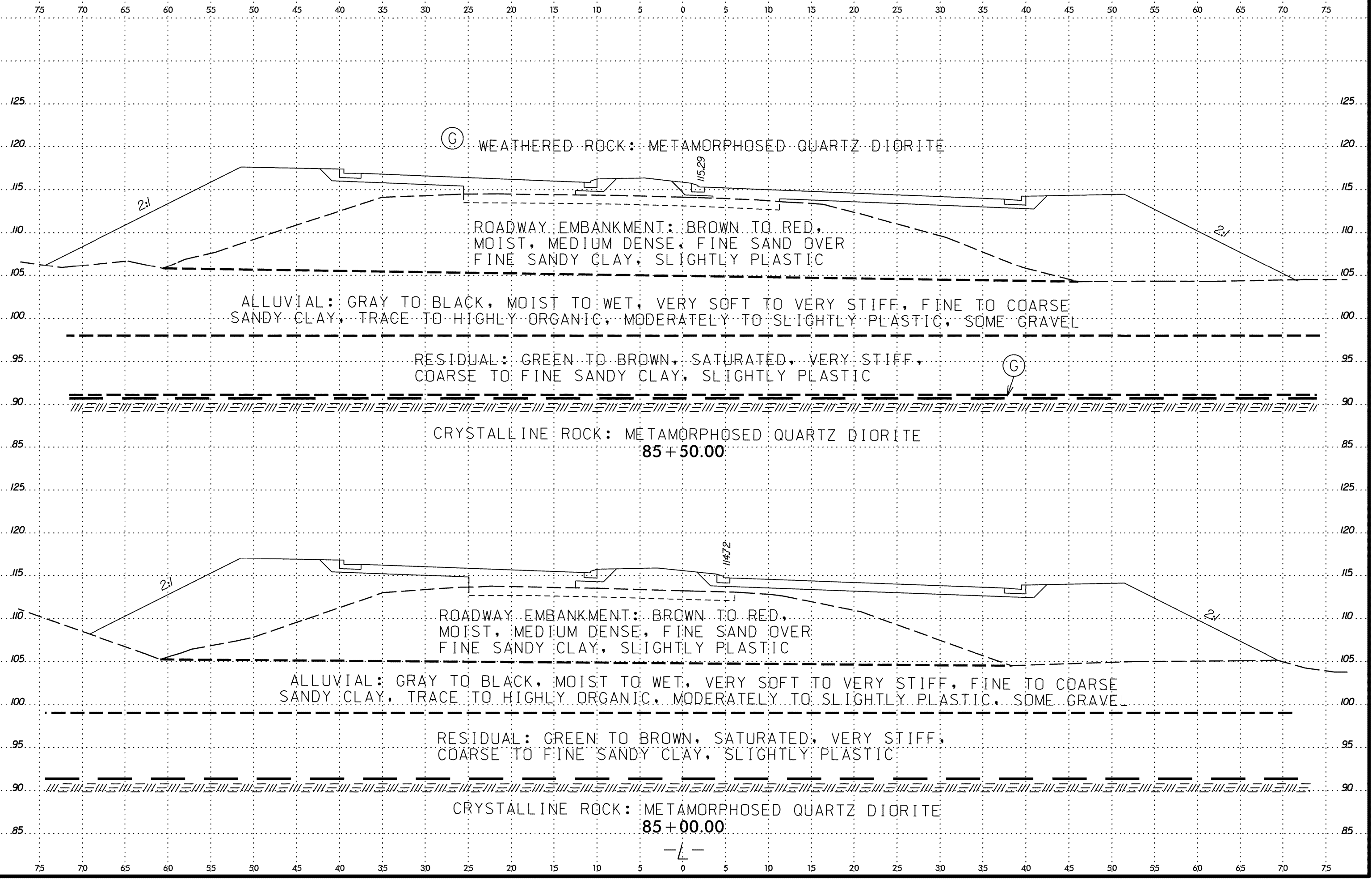
RESIDUAL: GREEN TO BROWN, WET, VERY STIFF, COARSE TO FINE SANDY SILT.

RESIDUAL: GREEN TO BROWN, SATURATED, COARSE TO FINE SANDY CLAY.

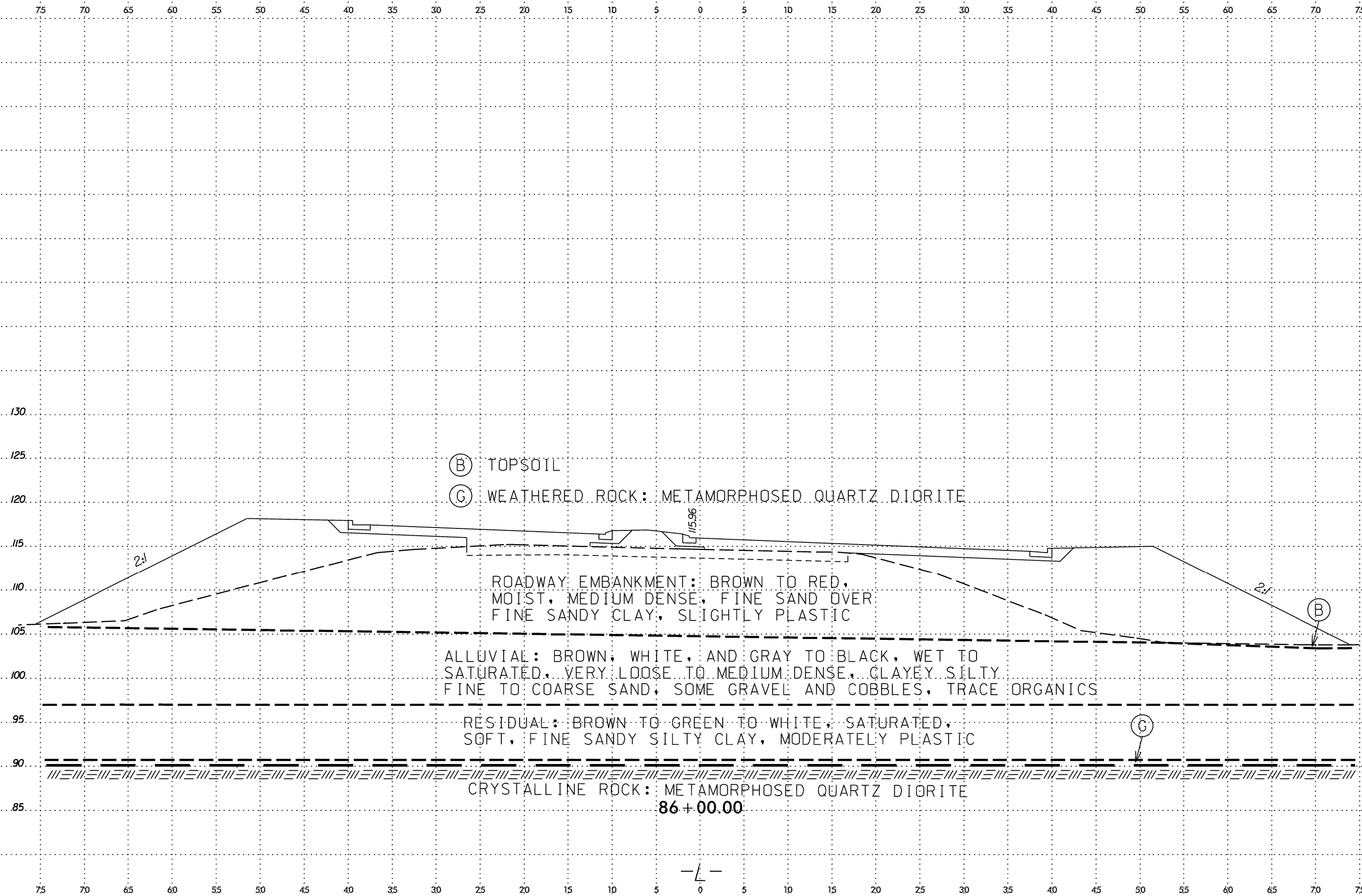
CRYSTALLINE ROCK: METAMORPHOSED QUARTZ DIORITE

84+50.00

SYSTEM TIME
 USER NAME
 USER ID
 USER IP
 USER AGENT
 USER OS
 USER BROWSER
 USER LANGUAGE
 USER COUNTRY
 USER CITY
 USER STATE
 USER ZIP
 USER EMAIL
 USER PHONE
 USER FAX
 USER ADDRESS
 USER COMPANY
 USER TITLE
 USER DEPARTMENT
 USER BUSINESS UNIT
 USER BUSINESS FUNCTION
 USER BUSINESS CATEGORY
 USER BUSINESS TYPE
 USER BUSINESS INDUSTRY
 USER BUSINESS SECTOR
 USER BUSINESS SUBSECTOR
 USER BUSINESS NAICS
 USER BUSINESS SIC
 USER BUSINESS FIC
 USER BUSINESS ICS
 USER BUSINESS NACE
 USER BUSINESS ISIC
 USER BUSINESS ISIC4
 USER BUSINESS ISIC8
 USER BUSINESS ISIC10
 USER BUSINESS ISIC12
 USER BUSINESS ISIC14
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 USER BUSINESS ISIC74
 USER BUSINESS ISIC76
 USER BUSINESS ISIC78
 USER BUSINESS ISIC80
 USER BUSINESS ISIC82
 USER BUSINESS ISIC84
 USER BUSINESS ISIC86
 USER BUSINESS ISIC88
 USER BUSINESS ISIC90
 USER BUSINESS ISIC92
 USER BUSINESS ISIC94
 USER BUSINESS ISIC96
 USER BUSINESS ISIC98
 USER BUSINESS ISIC00



SYSTEMS
SUBSERNAME



(B) TOPSOIL
 (G) WEATHERED ROCK: METAMORPHOSED QUARTZ DIORITE

ROADWAY EMBANKMENT: BROWN TO RED, MOIST, MEDIUM DENSE, FINE SAND OVER FINE SANDY CLAY, SLIGHTLY PLASTIC

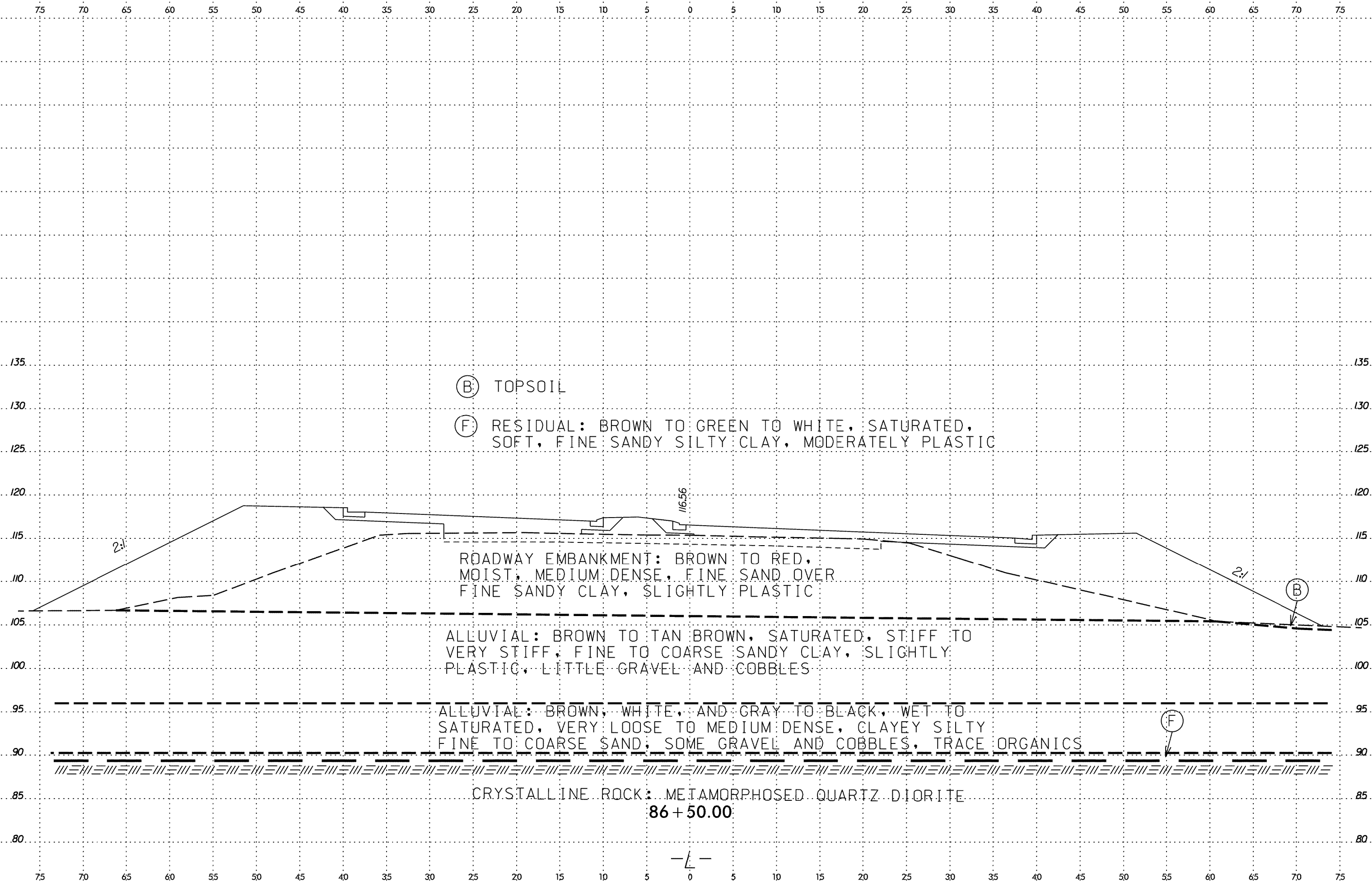
ALLUVIAL: BROWN, WHITE, AND GRAY TO BLACK, WET TO SATURATED, VERY LOOSE TO MEDIUM DENSE, CLAYEY SILTY FINE TO COARSE SAND, SOME GRAVEL AND COBBLES, TRACE ORGANICS

RESIDUAL: BROWN TO GREEN TO WHITE, SATURATED, SOFT, FINE SANDY SILTY CLAY, MODERATELY PLASTIC

CRYSTALLINE ROCK: METAMORPHOSED QUARTZ DIORITE

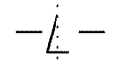
86+00.00

SYSTEM TIME
 USER NAME



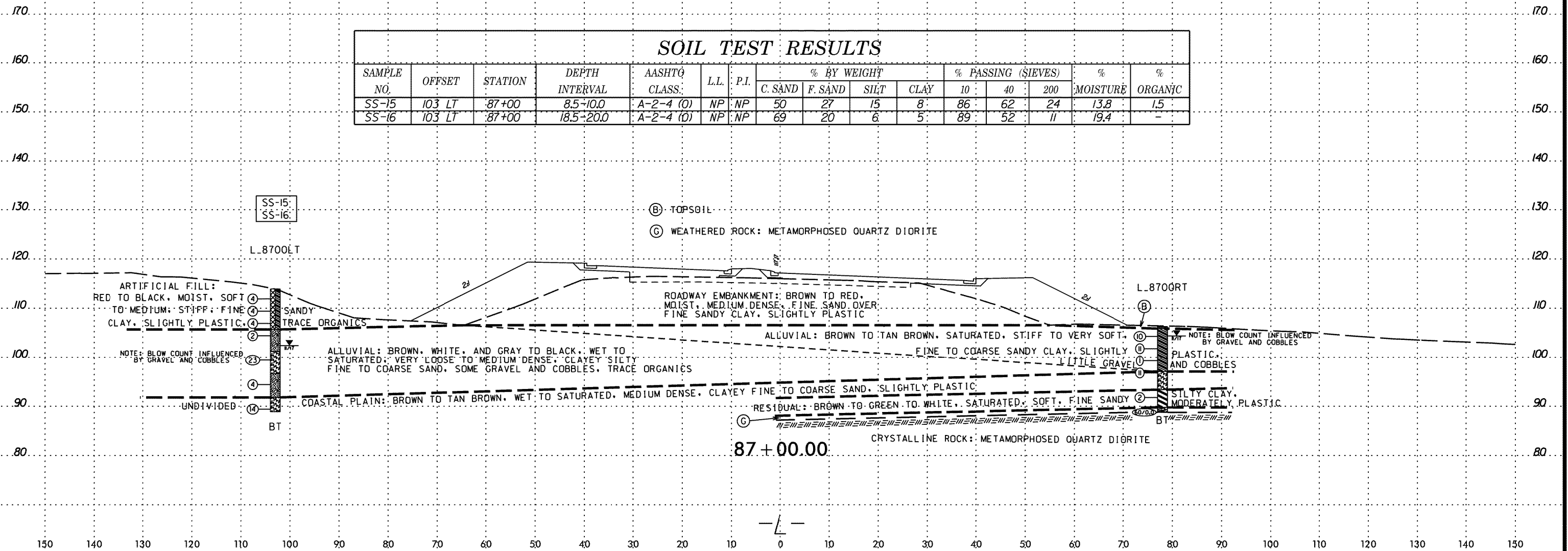
SYSTEMS
DESIGN
SERIALS

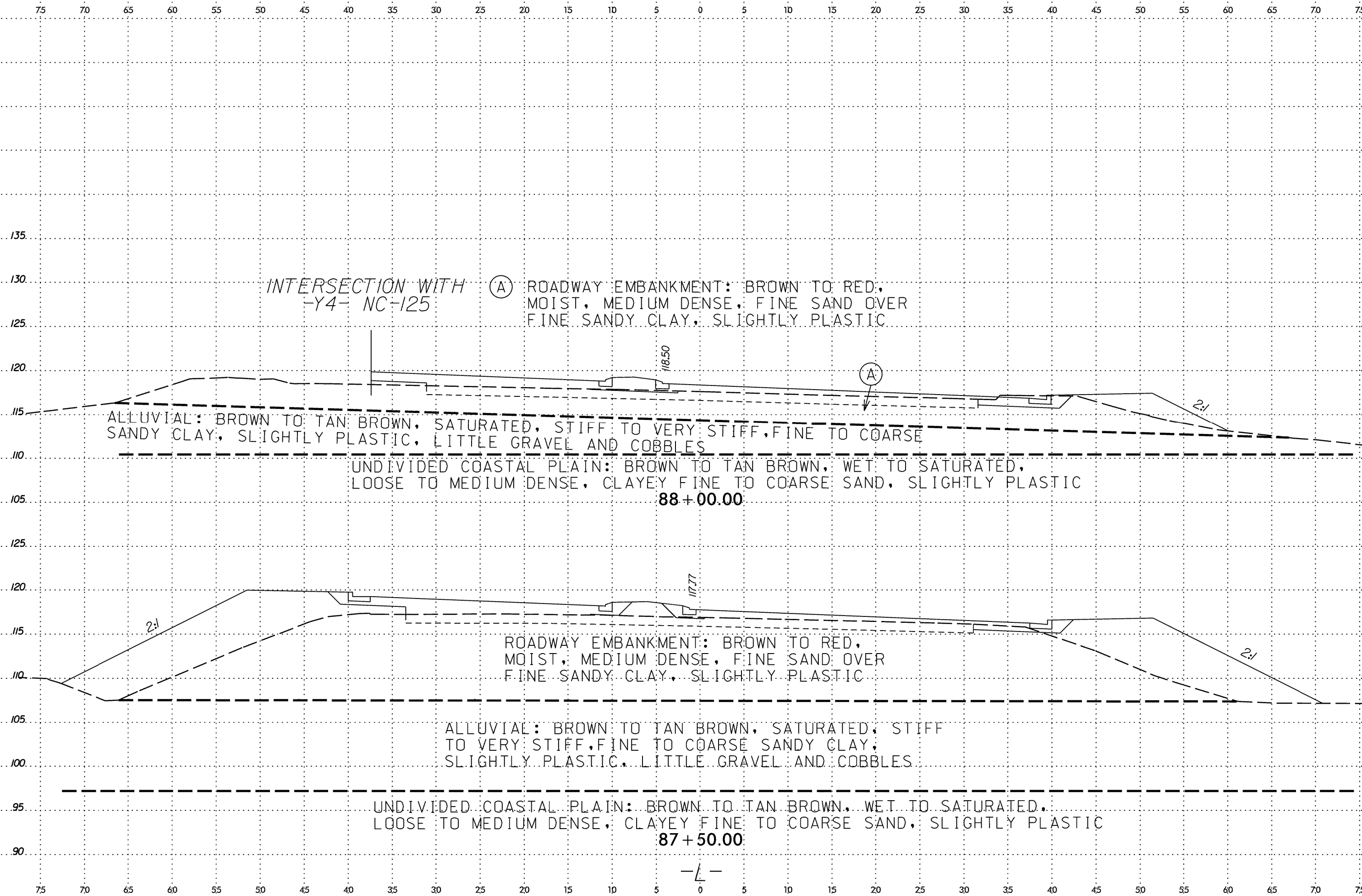
86 + 50.00



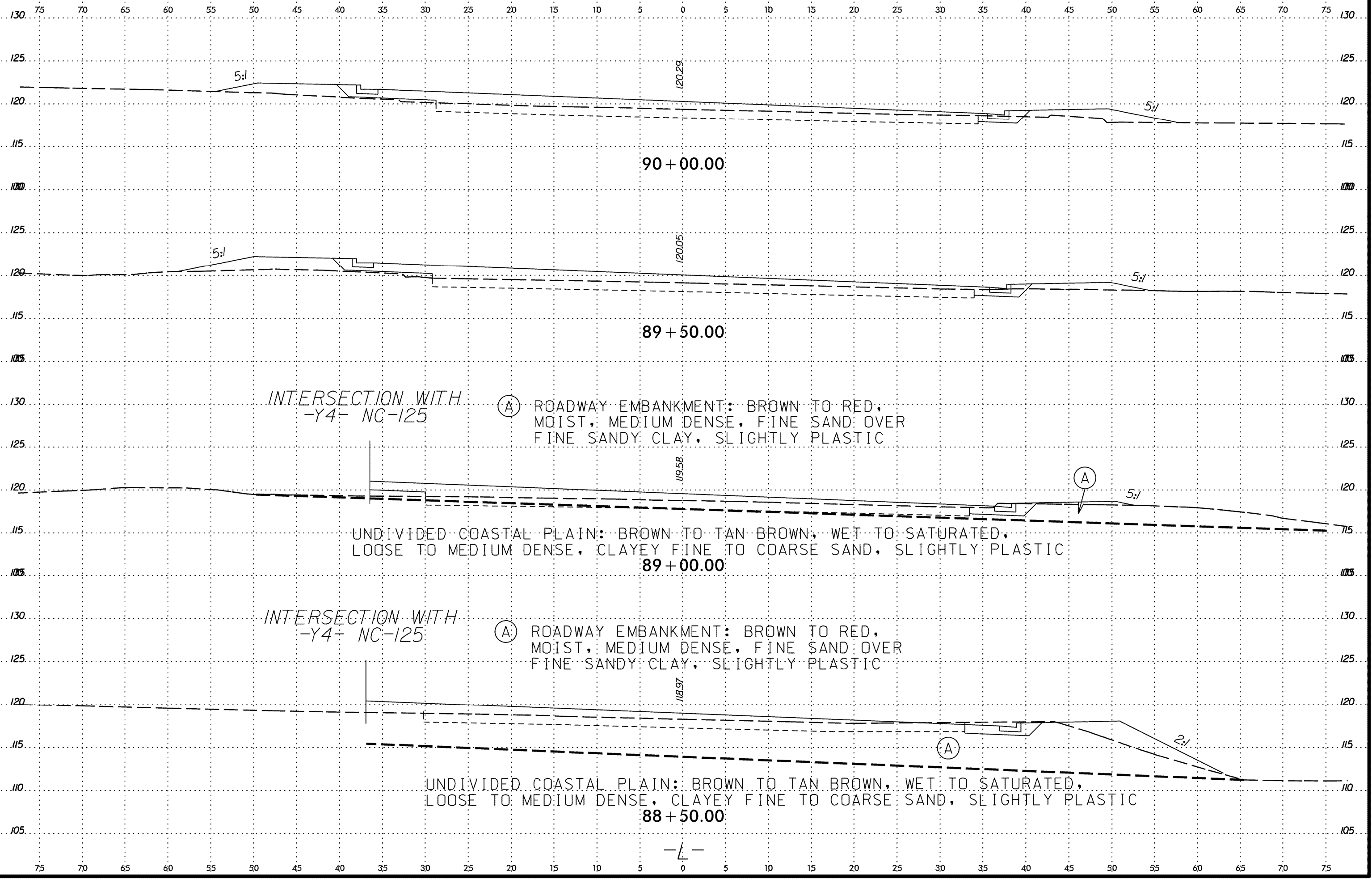
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-15	103 LT	87+00	8.5-10.0	A-2-4 (0)	NP	NP	50	27	15	8	86	62	24	13.8	1.5
SS-16	103 LT	87+00	18.5-20.0	A-2-4 (0)	NP	NP	69	20	6	5	89	52	11	19.4	-





SYSTEM TIME
 USER NAME



90 + 00.00

89 + 50.00

89 + 00.00

88 + 50.00

INTERSECTION WITH
-Y4- NC-125

INTERSECTION WITH
-Y4- NC-125

(A) ROADWAY EMBANKMENT: BROWN TO RED,
MOIST, MEDIUM DENSE, FINE SAND OVER
FINE SANDY CLAY, SLIGHTLY PLASTIC

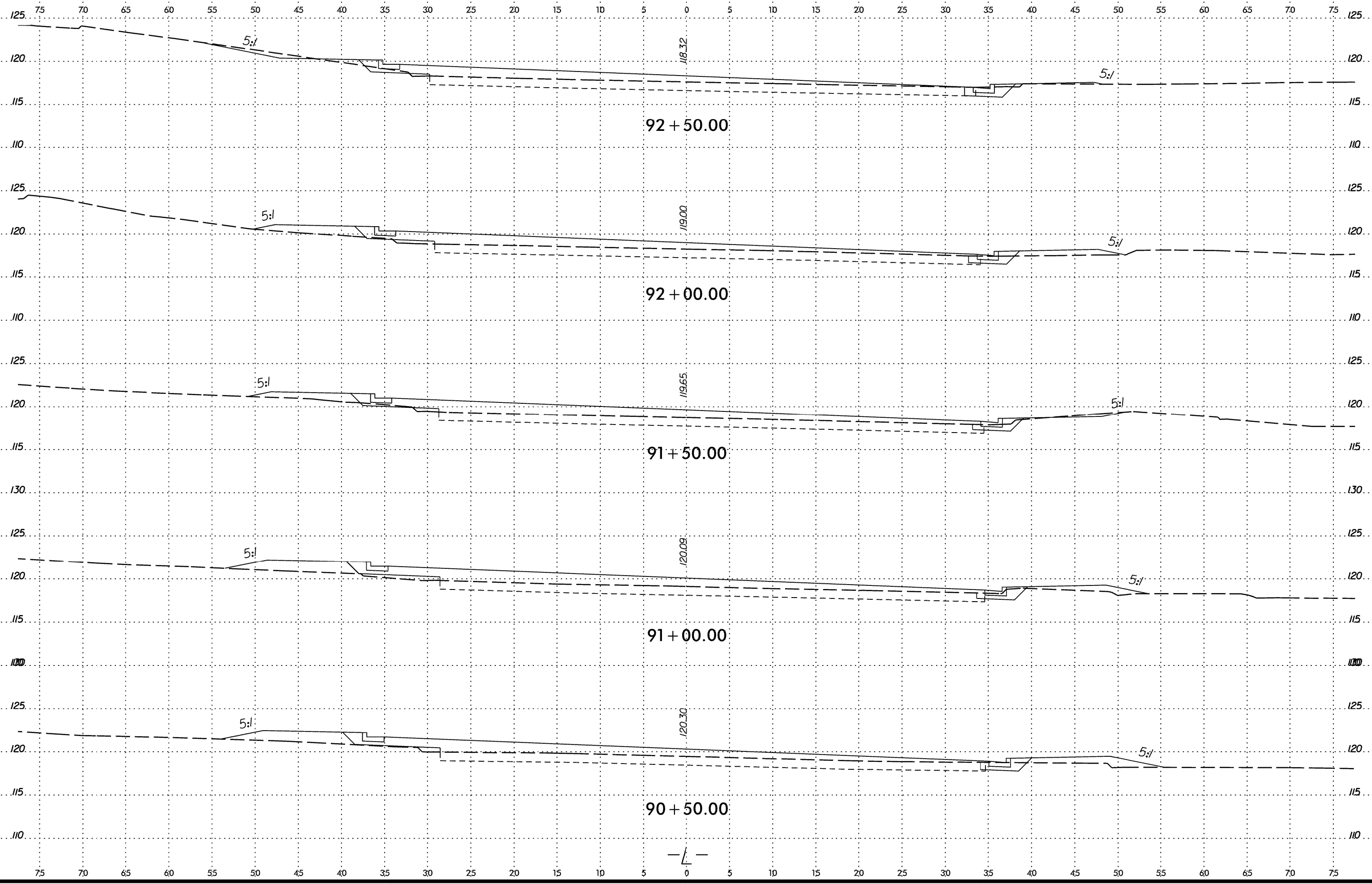
(A) ROADWAY EMBANKMENT: BROWN TO RED,
MOIST, MEDIUM DENSE, FINE SAND OVER
FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, WET TO SATURATED,
LOOSE TO MEDIUM DENSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, WET TO SATURATED,
LOOSE TO MEDIUM DENSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC

SYSTEM TIME
OPERATION
SUBSEQUENT

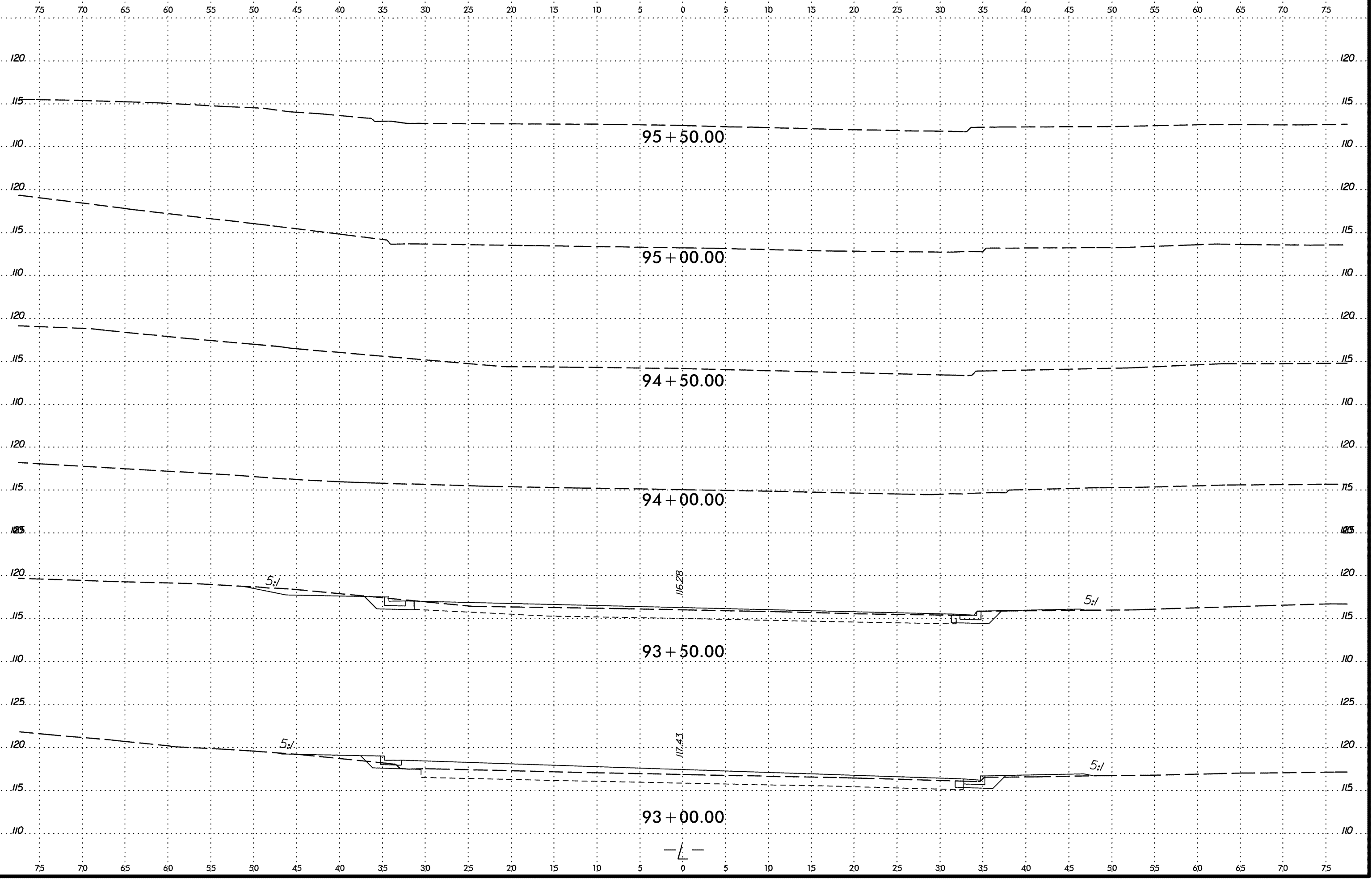
6/23/16



 SYSTEM TIME *****

 USER *****

6/23/16



SYSTEM TIME

SECTION

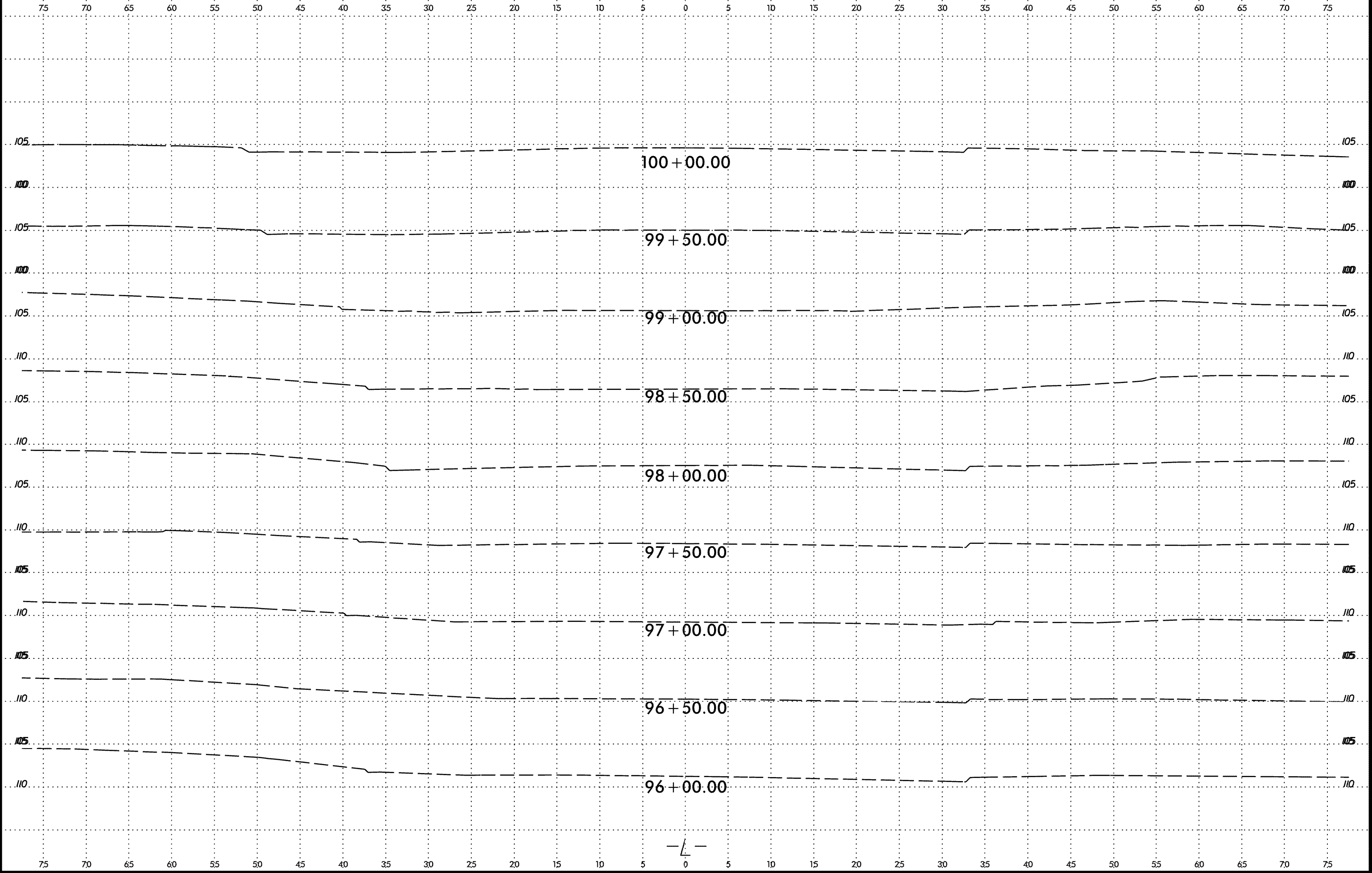
USER NAME

6/23/16



PROJ. REFERENCE NO.
U-5725/R-3822

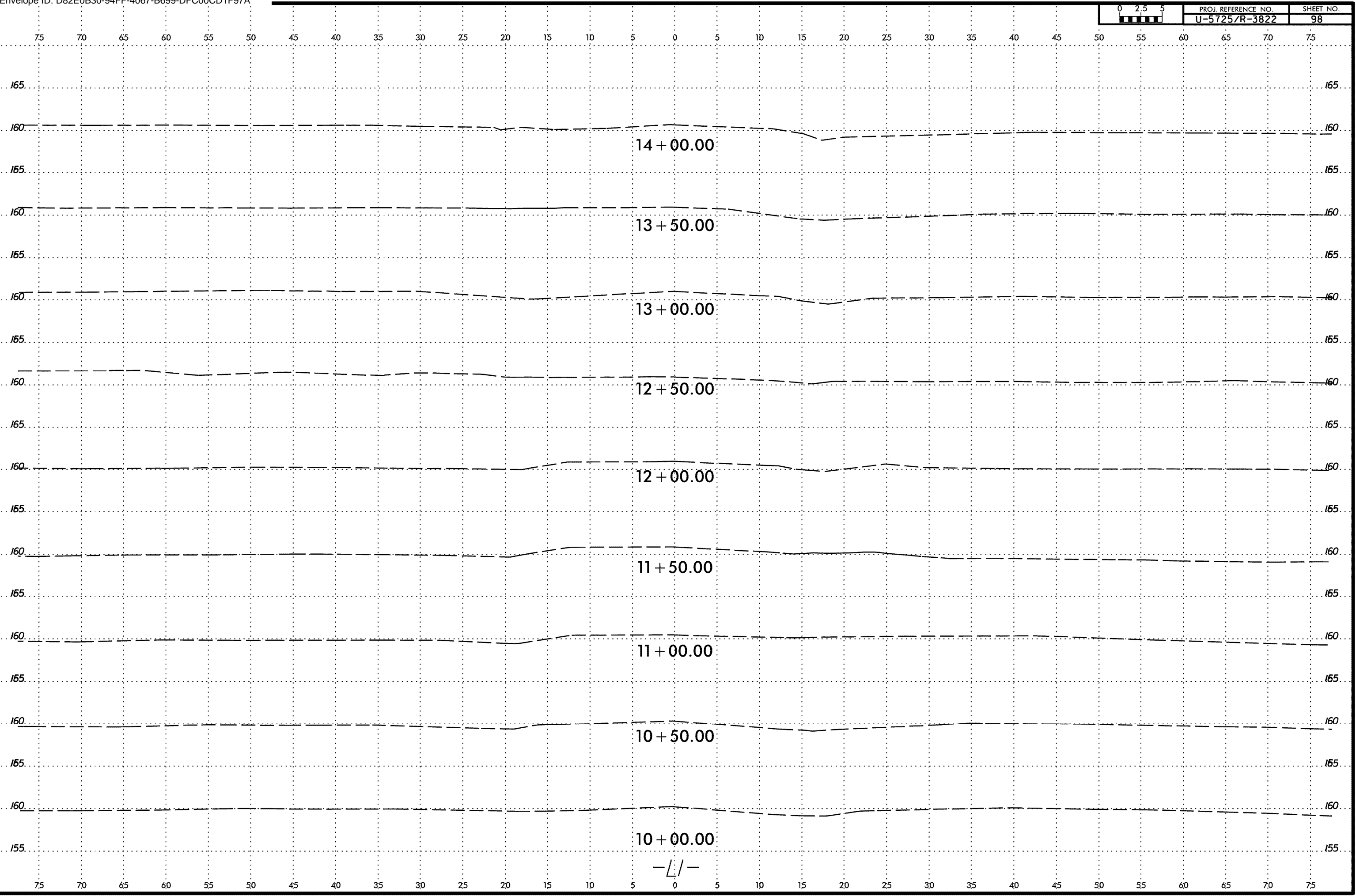
SHEET NO.
97

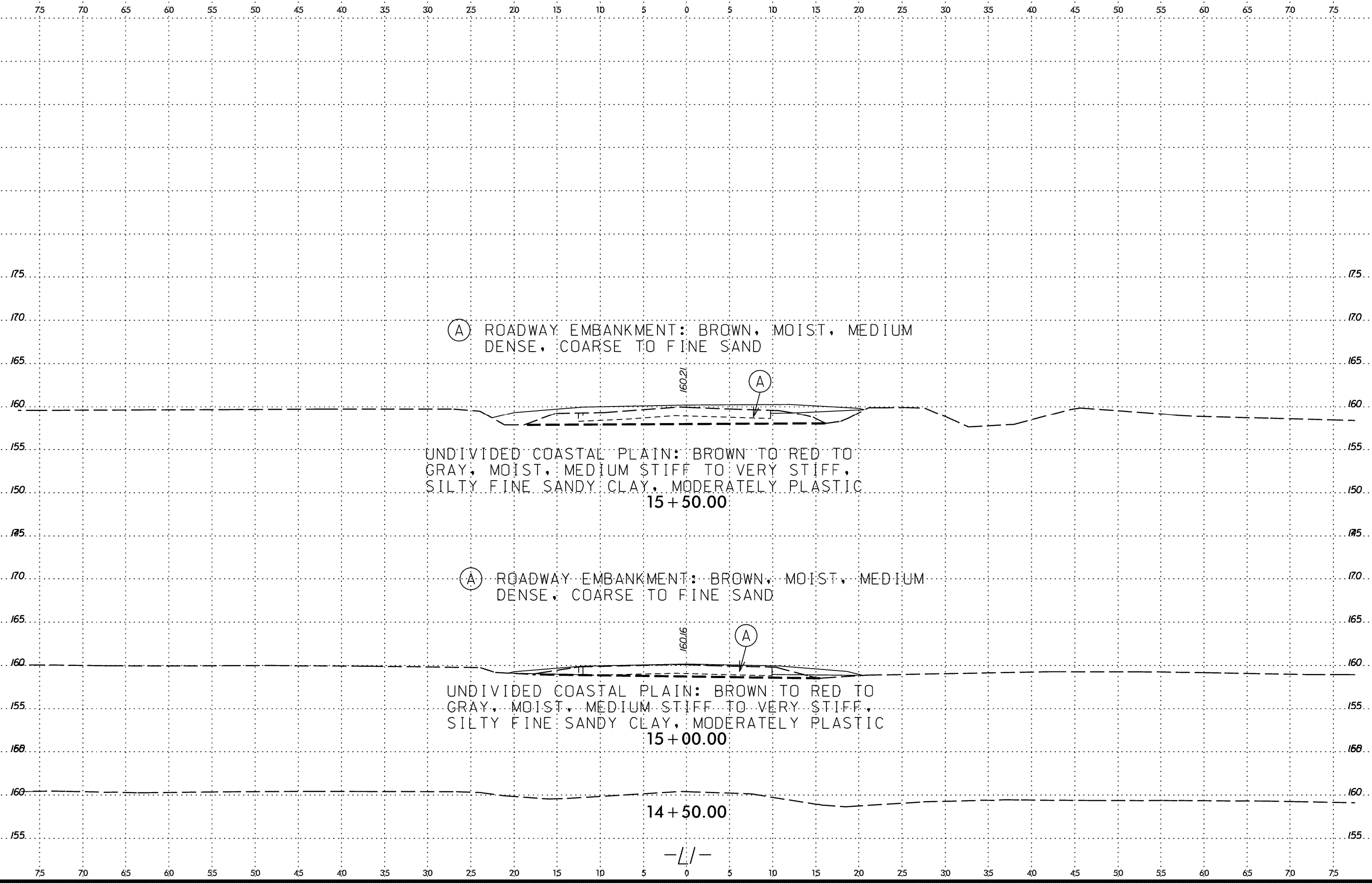


 SYSTEM TIME#####
 #####
 USER#####
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— L —

6/23/16
SYSTEM
SECTION
SURNAME





(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY PLASTIC
15+50.00

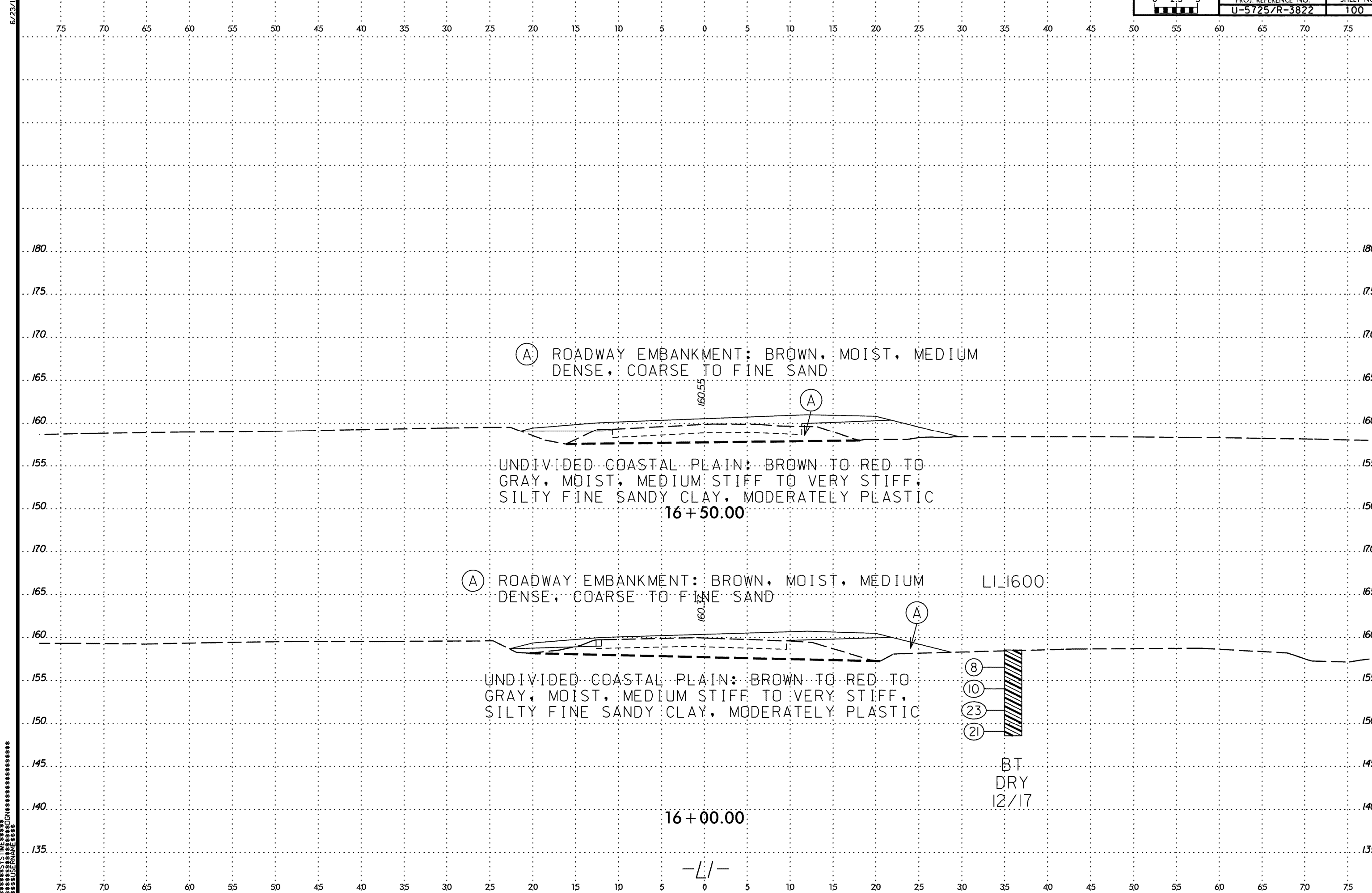
(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY PLASTIC
15+00.00

14+50.00

-L/-

SYSTEMS
DESIGN
SUPERVISOR



(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY PLASTIC
16+50.00

(A) ROADWAY EMBANKMENT: BROWN, MOIST, MEDIUM DENSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY PLASTIC

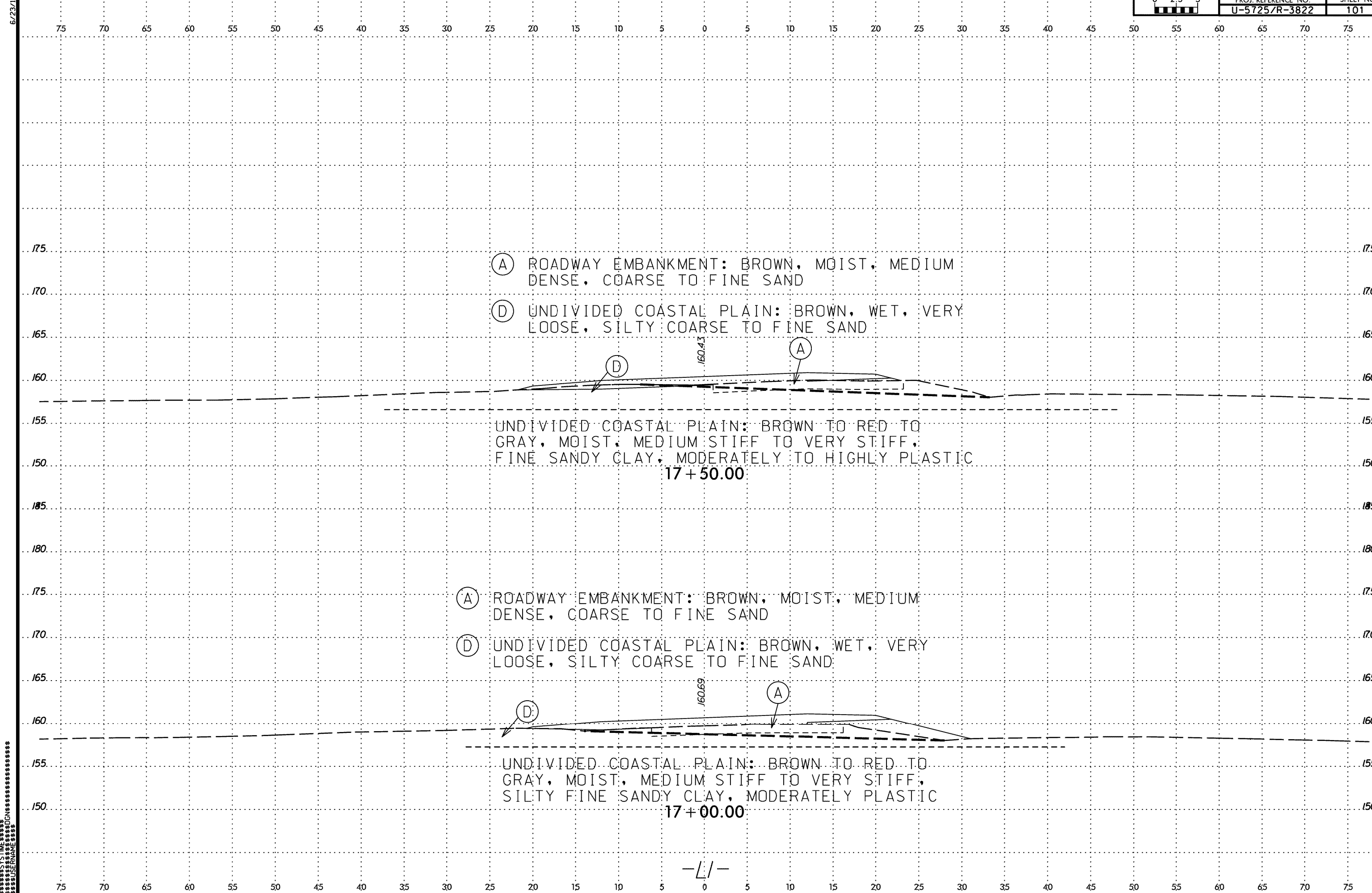
- (8)
- (10)
- (23)
- (21)

BT
DRY
12/17

16+00.00

-L/-

SYSTEM TIME
DATE
USER NAME

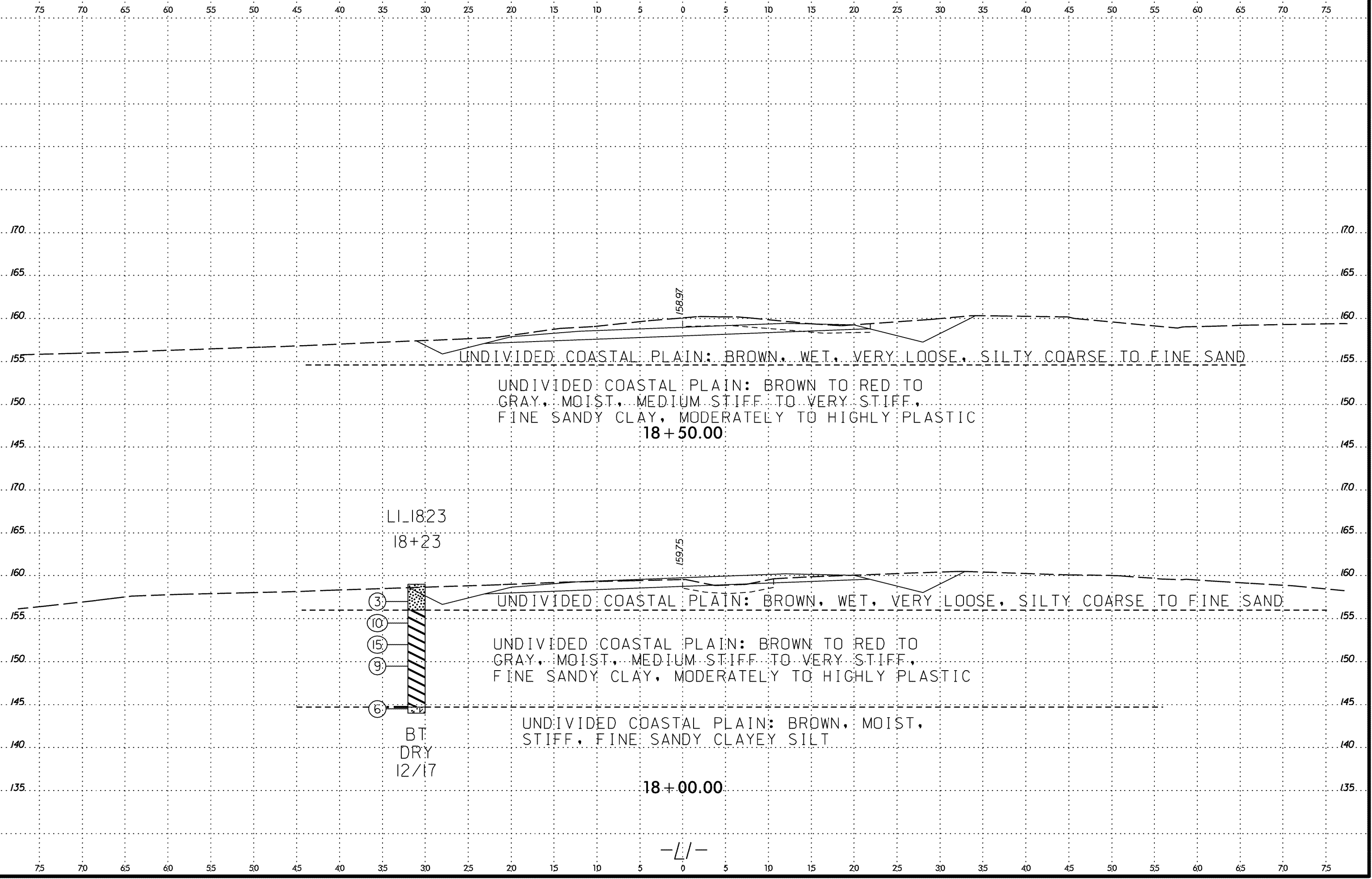


-1/-

SYSTEM TIME *****

SUBSEQUENT *****

SUBSEQUENT *****



UNDIVIDED COASTAL PLAIN: BROWN, WET, VERY LOOSE, SILTY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, FINE SANDY CLAY, MODERATELY TO HIGHLY PLASTIC

18+50.00

LI 18:23

18+23

- ③
- ⑩
- ⑮
- ⑨
- ⑥

BT
DRY
12/17

UNDIVIDED COASTAL PLAIN: BROWN, WET, VERY LOOSE, SILTY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY, MOIST, MEDIUM STIFF TO VERY STIFF, FINE SANDY CLAY, MODERATELY TO HIGHLY PLASTIC

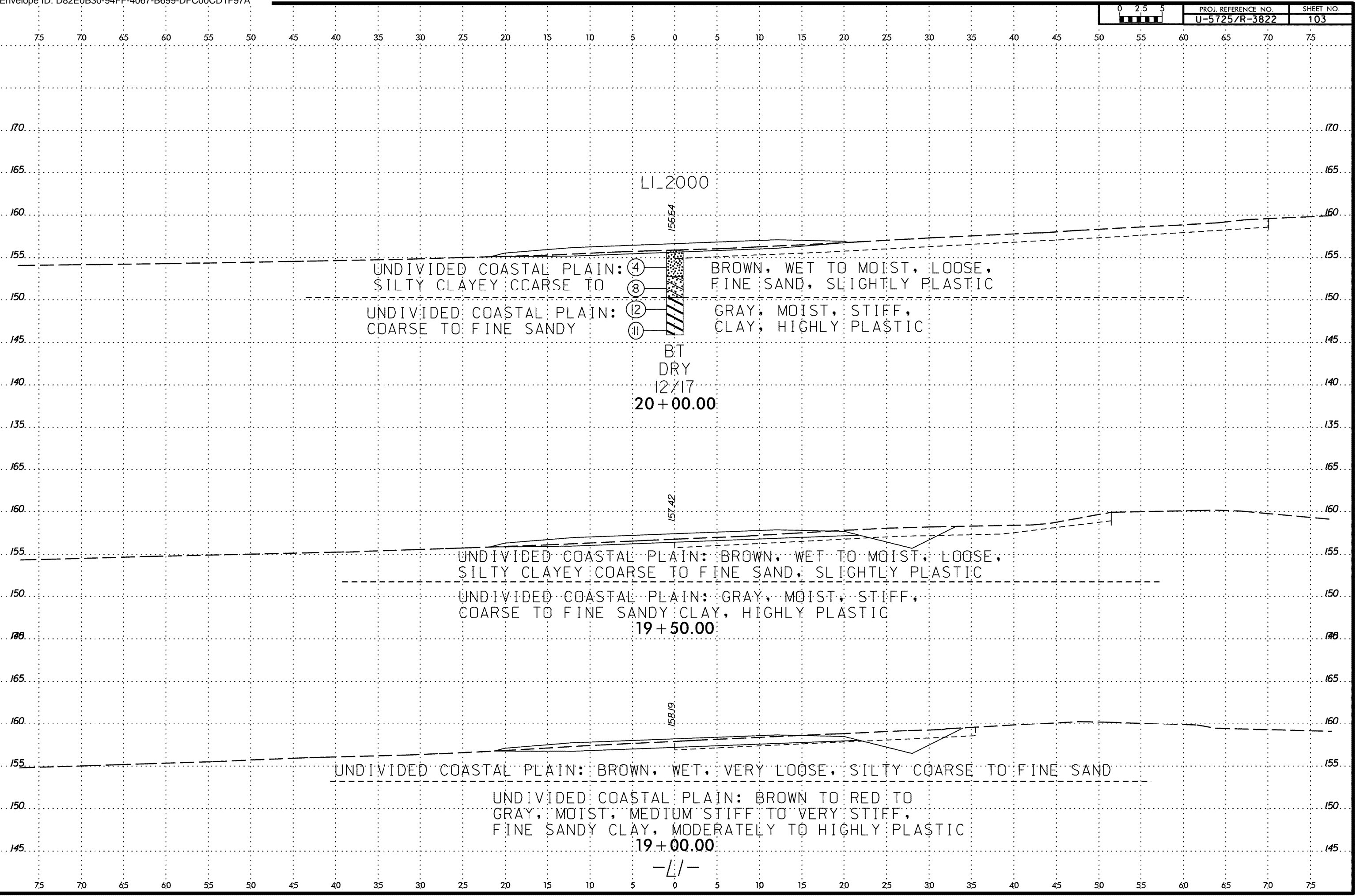
UNDIVIDED COASTAL PLAIN: BROWN, MOIST, STIFF, FINE SANDY CLAYEY SILT

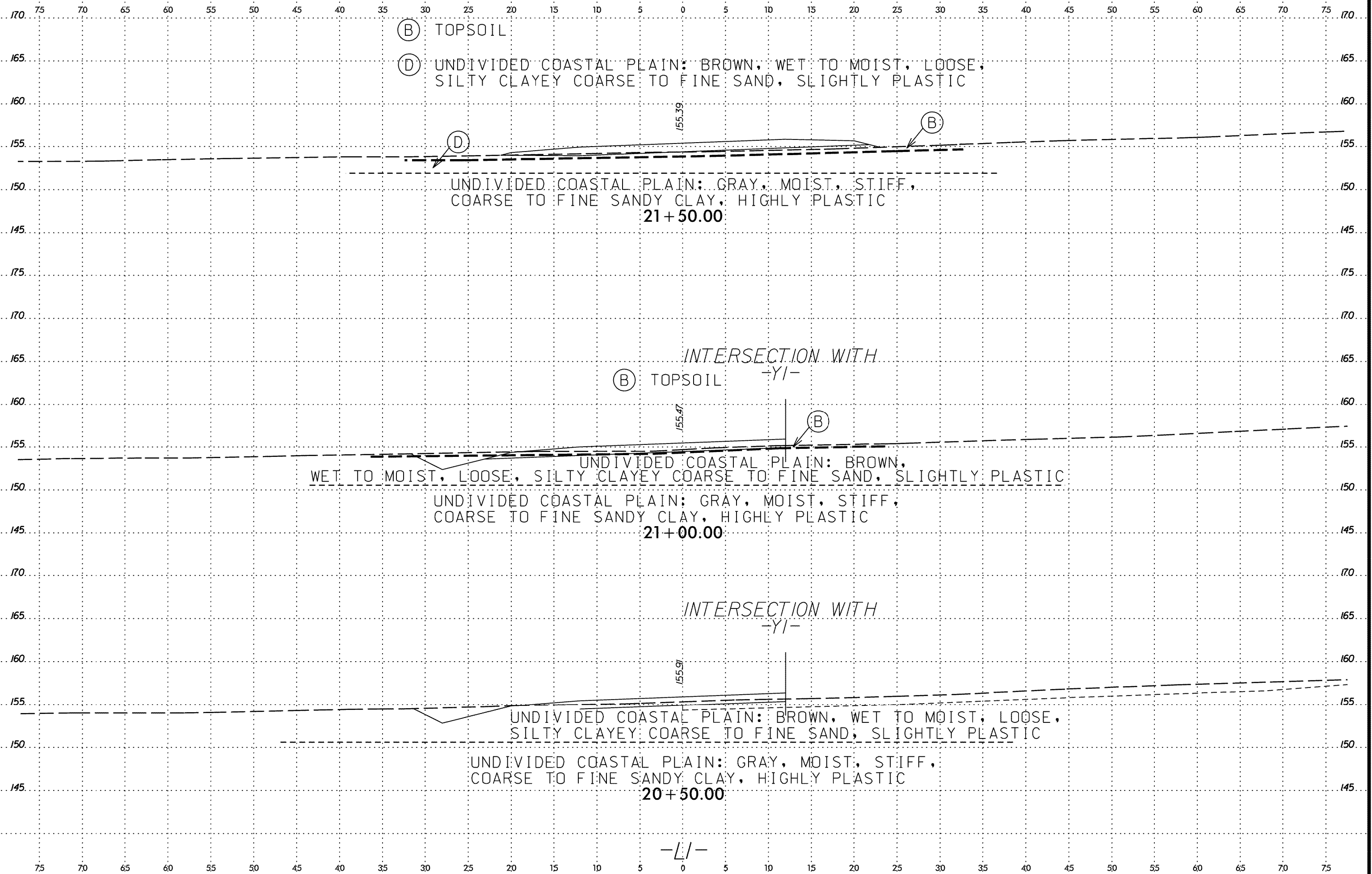
18+00.00

-1/-

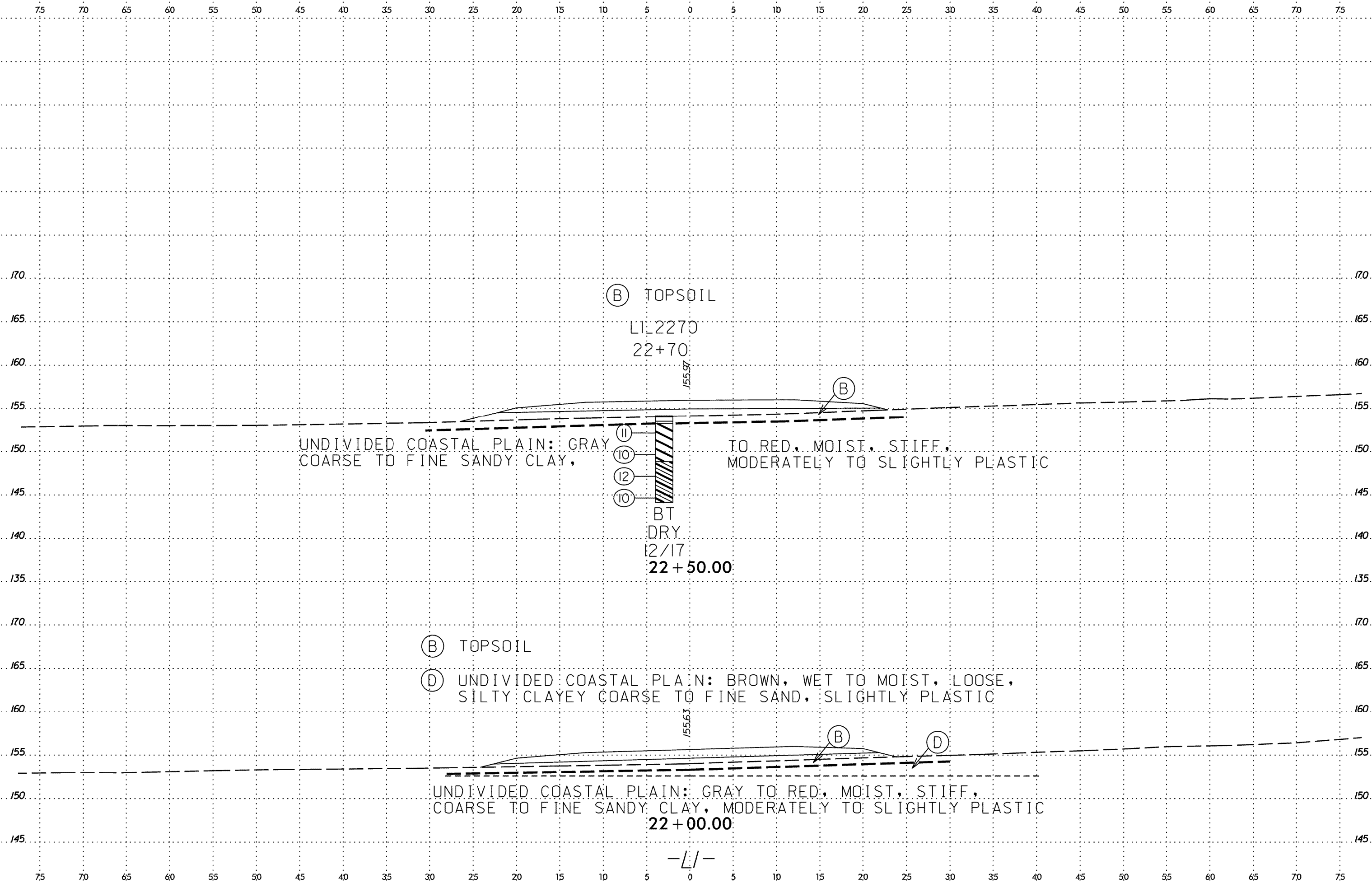
SYSTEM TIME
OPERATION
SUBSEQUENT

6/23/16
SYSTEM TIME
SESSION
USER NAME



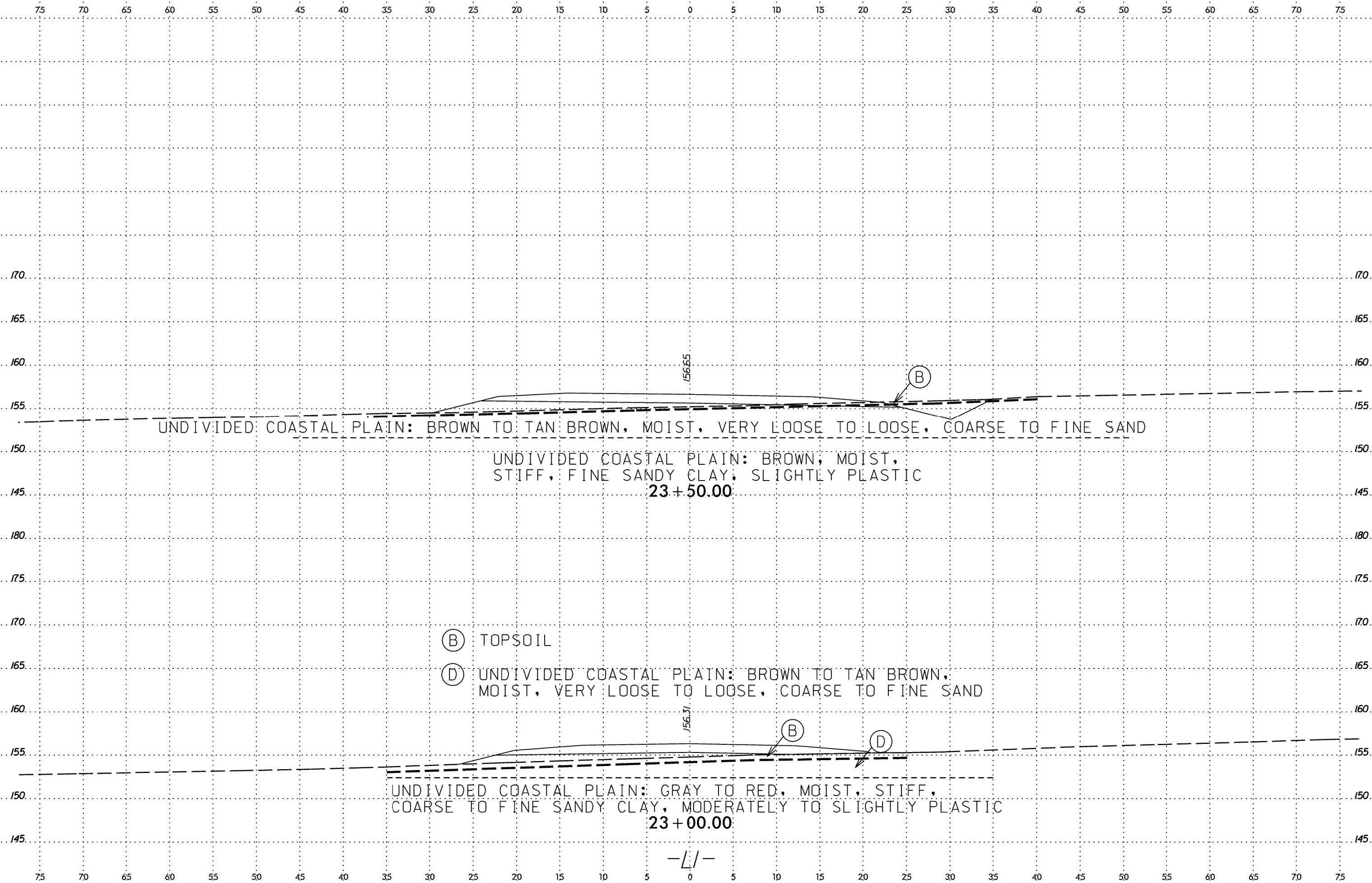


SYSTEM TIME *****
 USER *****
 USER NAME *****



 SYSTEM *****

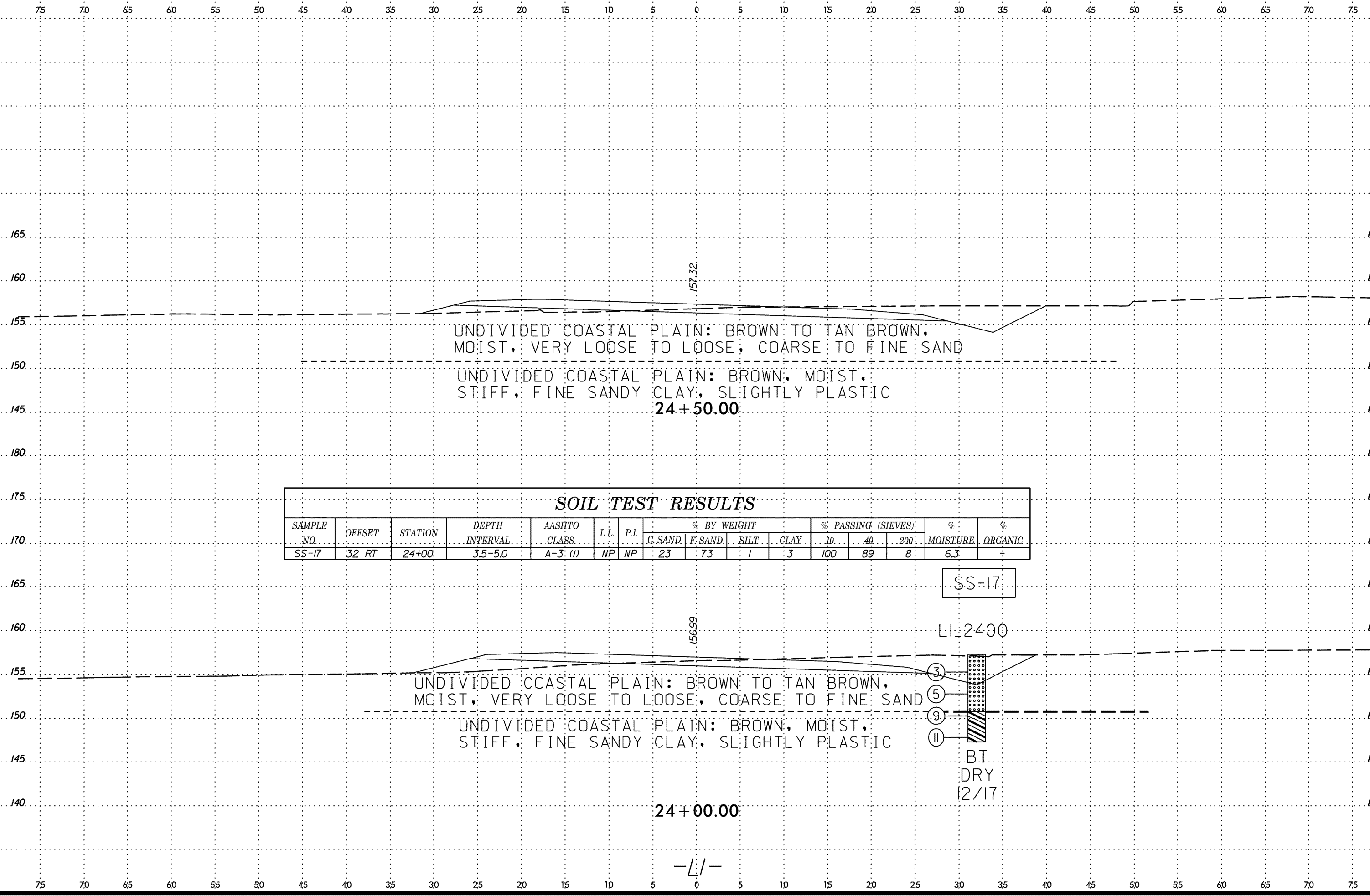
 USER *****



 SYSTEM *****

 USER *****

-L/-



UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN,
 MOIST, VERY LOOSE TO LOOSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN, MOIST,
 STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC
 24+50.00

SOIL TEST RESULTS

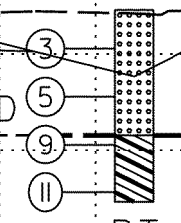
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-17	32 RT	24+00	3.5-5.0	A-3: (1)	NP	NP	23	73	1	3	100	89	8	6.3	-

SS-17

LI-2400

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN,
 MOIST, VERY LOOSE TO LOOSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN, MOIST,
 STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC



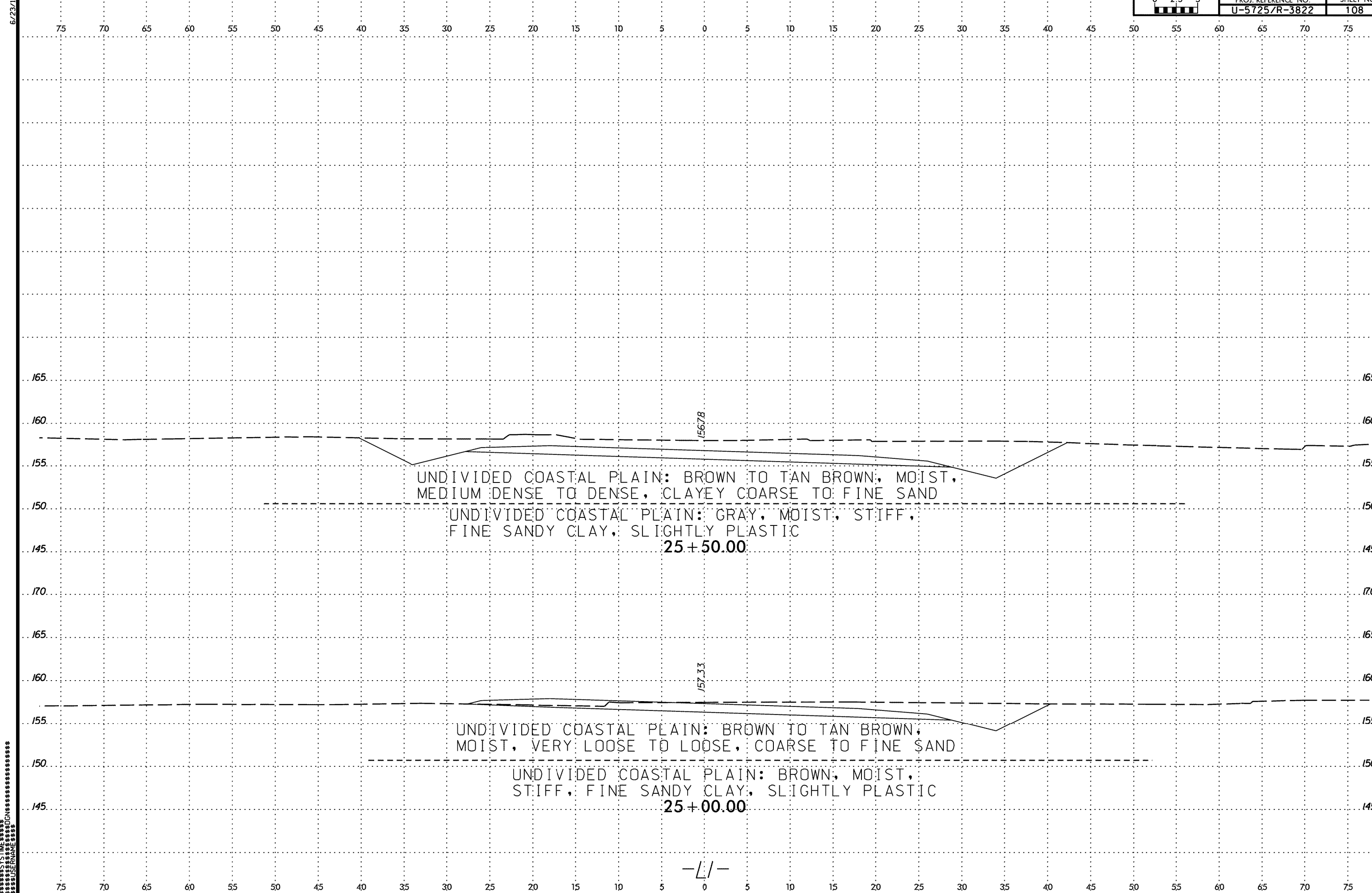
BT
 DRY
 12/17

24+00.00

-1/-

 SYSTEM TIME *****

 USER NAME *****



UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST,
MEDIUM DENSE TO DENSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, STIFF,
FINE SANDY CLAY, SLIGHTLY PLASTIC

25+50.00

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN,
MOIST, VERY LOOSE TO LOOSE, COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: BROWN, MOIST,
STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

25+00.00

-L/-

6/23/16

 SYSTEM TIME *****

 USER NAME *****

INTERSECTION WITH
-L- NC-125

27+00.00

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST,
MEDIUM DENSE TO DENSE, CLAYEY COARSE TO FINE SAND

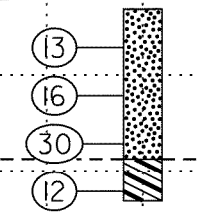
UNDIVIDED COASTAL PLAIN: GRAY, MOIST, STIFF,
FINE SANDY CLAY, SLIGHTLY PLASTIC
26+50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-18	50 LT	26+19	1.0-2.5	A-2-4 (0)	23	9	29	41	6	24	100	93	33	9.9	-

SS-18

LI_2619
26+19



BT
DRY
12/17

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST,
MEDIUM DENSE TO DENSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, STIFF,
FINE SANDY CLAY, SLIGHTLY PLASTIC

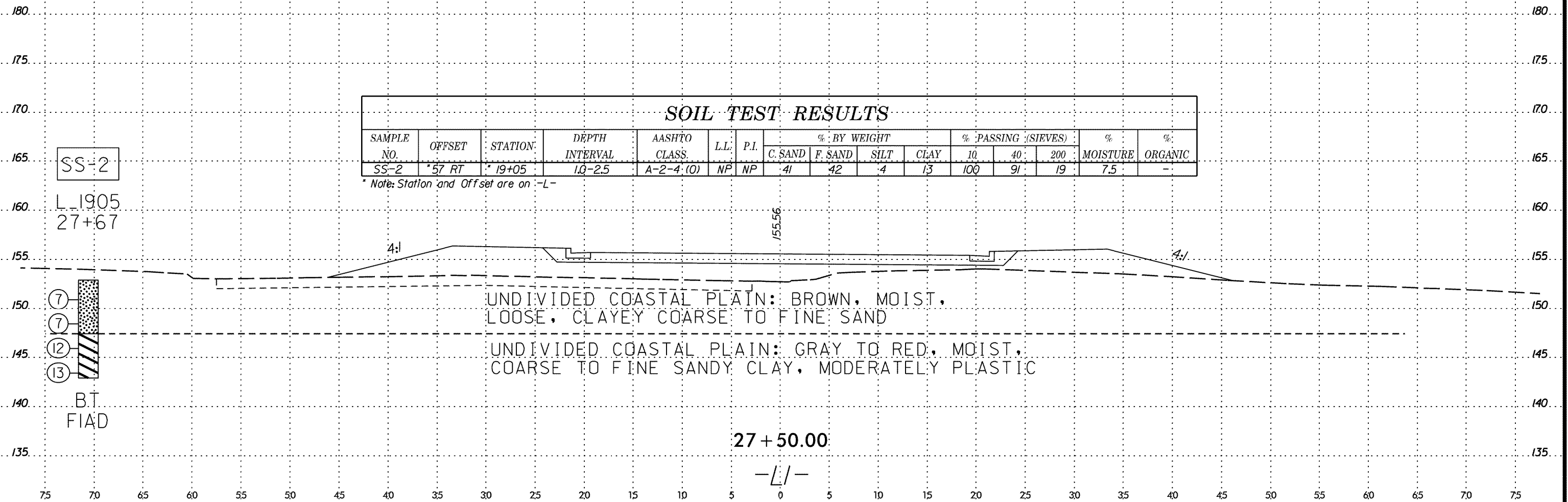
26+00.00

-L-

SYSTEM TIME
OPERATION
SUBSEQUENT

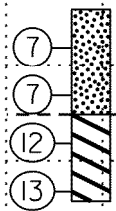
6/23/16

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



SS-2

L 1905
27+67



BT
FIAD

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-2	57 RT	19+05	1.0-2.5	A-2-4 (0)	NP	NP	41	42	4	13	100	91	19	7.5	-

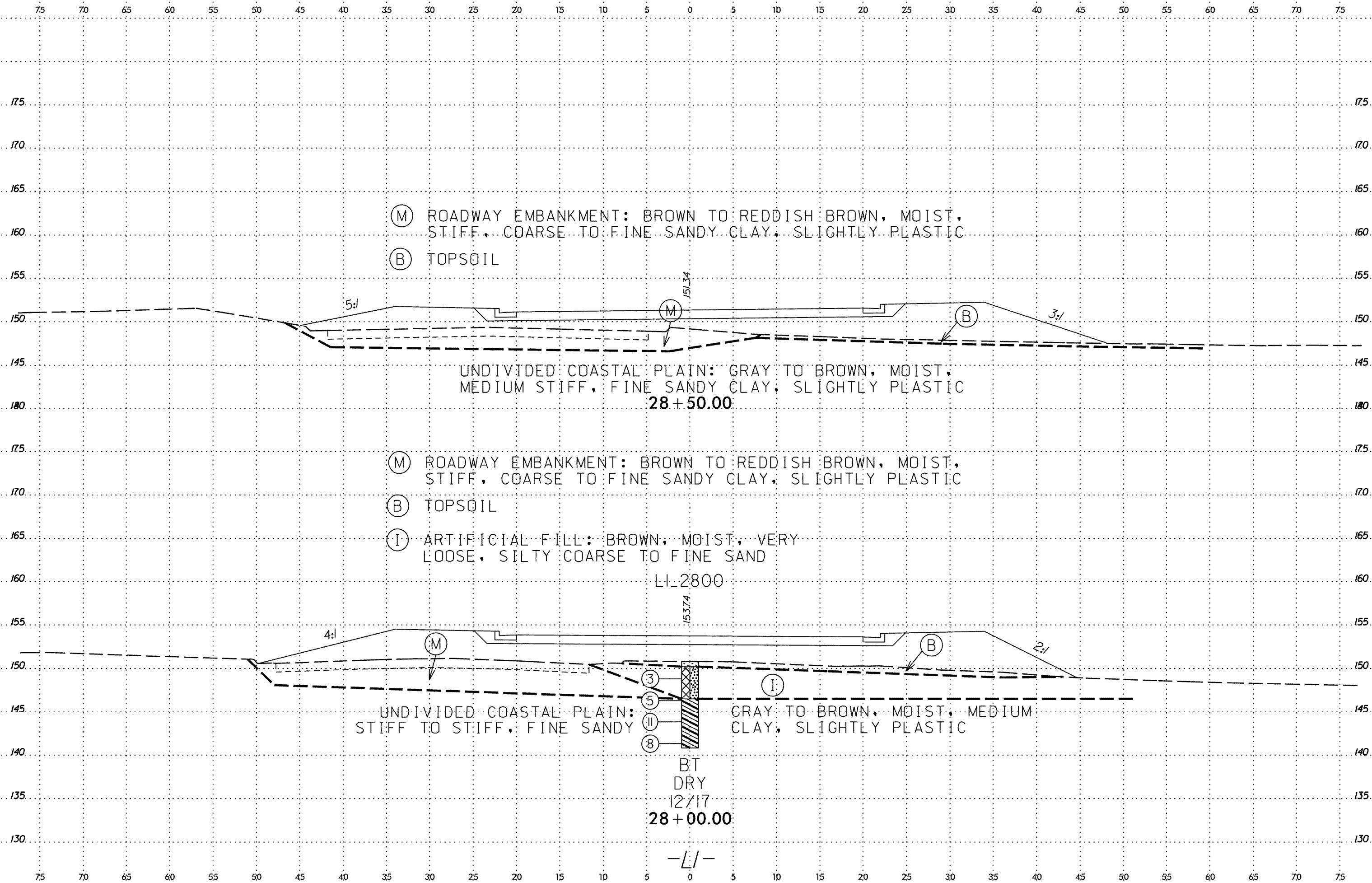
* Note: Station and Offset are on -L-

27 + 50.00

-L/-

SYSTEM TIME

USER NAME



(M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST, STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST, MEDIUM STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC
28+50.00

(M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST, STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

(B) TOPSOIL

(I) ARTIFICIAL FILL: BROWN, MOIST, VERY LOOSE, SILTY COARSE TO FINE SAND

LI-2800

UNDIVIDED COASTAL PLAIN: STIFF TO STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

GRAY TO BROWN, MOIST, MEDIUM CLAY, SLIGHTLY PLASTIC

BT DRY 12/17

28+00.00

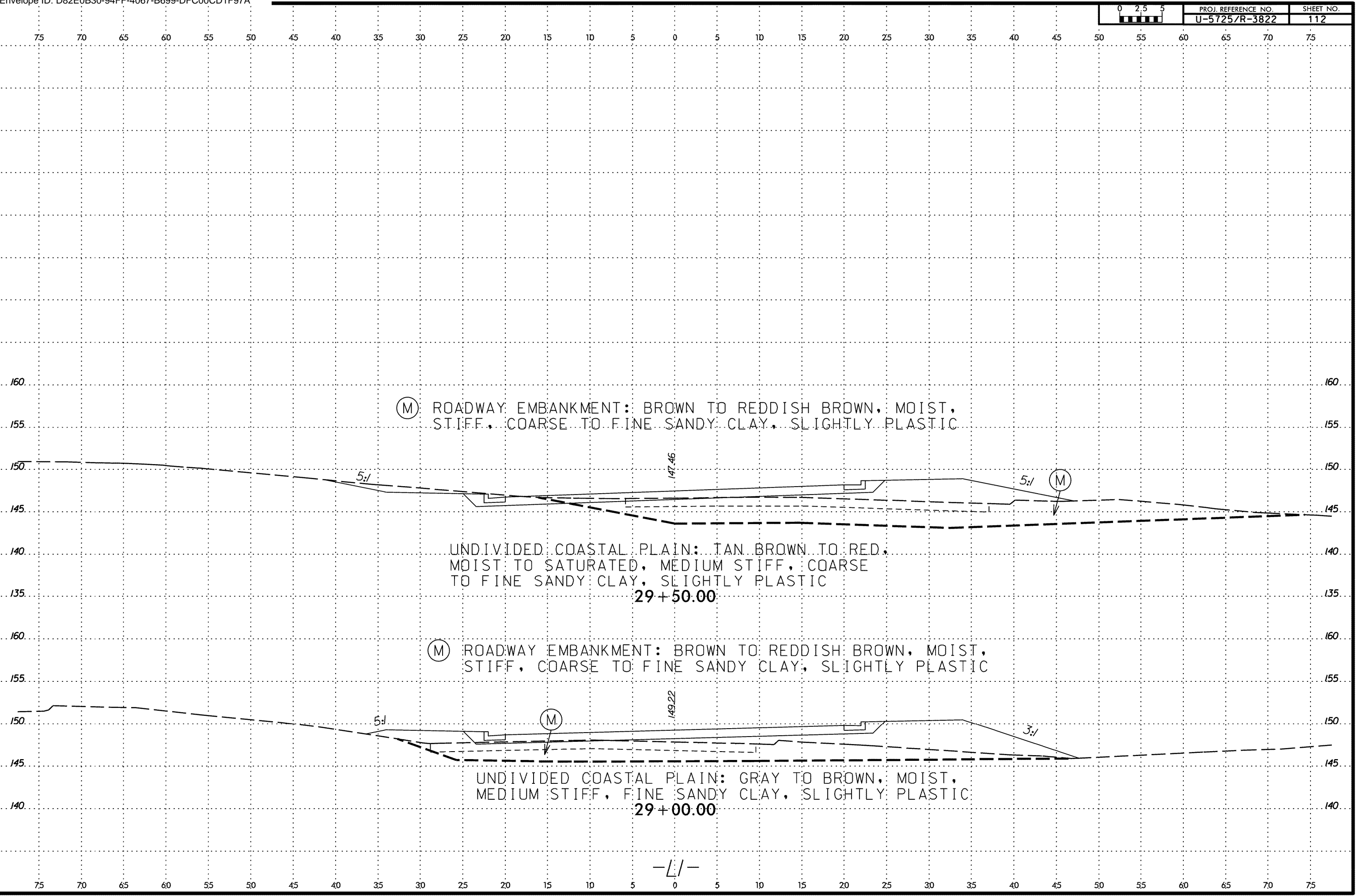
-L/-

SYSTEM TIME *****

SUBMISSION *****

SUBSERIAL *****

6/23/16
SYSTEMS
SUBSERNAME



(M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST,
STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED,
MOIST TO SATURATED, MEDIUM STIFF, COARSE
TO FINE SANDY CLAY, SLIGHTLY PLASTIC

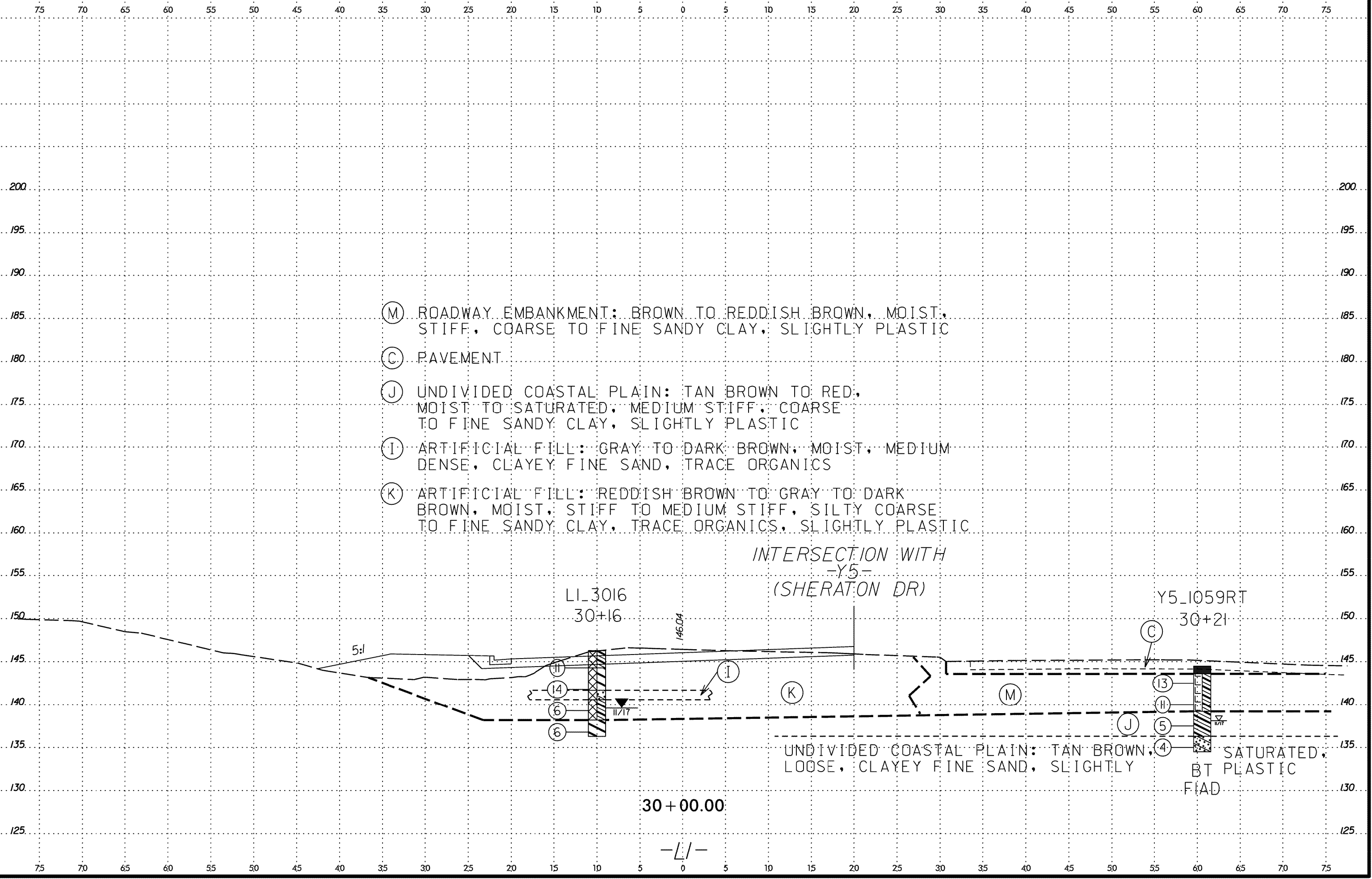
29+50.00

(M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST,
STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST,
MEDIUM STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

29+00.00

-||-



- (M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST, STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC
- (C) PAVEMENT
- (J) UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, MOIST TO SATURATED, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC
- (I) ARTIFICIAL FILL: GRAY TO DARK BROWN, MOIST, MEDIUM DENSE, CLAYEY FINE SAND, TRACE ORGANICS
- (K) ARTIFICIAL FILL: REDDISH BROWN TO GRAY TO DARK BROWN, MOIST, STIFF TO MEDIUM STIFF, SILTY COARSE TO FINE SANDY CLAY, TRACE ORGANICS, SLIGHTLY PLASTIC

INTERSECTION WITH
-Y5-
(SHERATON DR)

LI_3016
30+16

Y5_1059RT
30+21

UNDIVIDED COASTAL PLAIN: TAN BROWN, LOOSE, CLAYEY FINE SAND, SLIGHTLY SATURATED, BT PLASTIC FIAD

30 + 00.00

-1/-

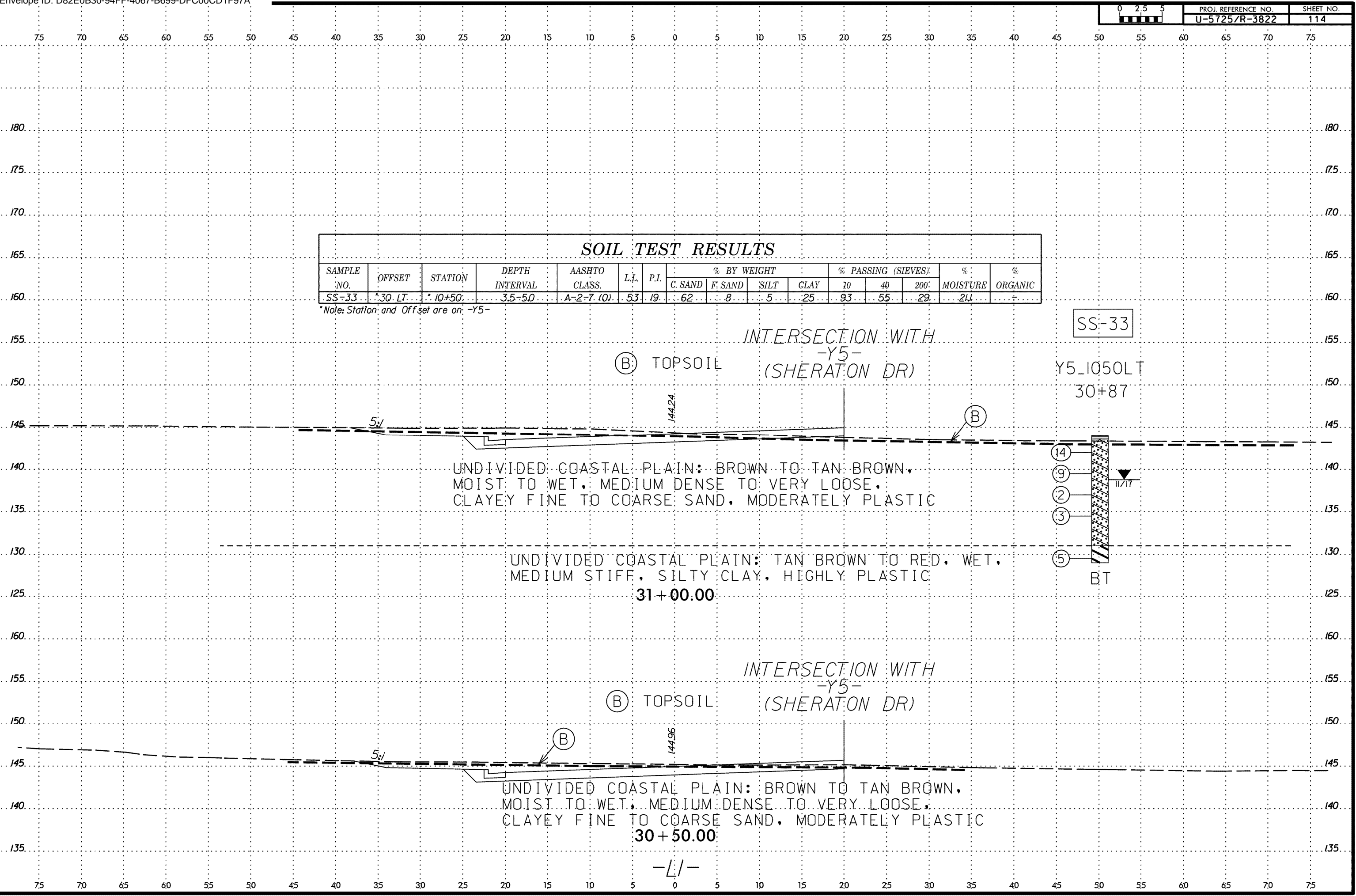
SYSTEM TIME *****

SUBSEQUENCE *****

SUBSEQUENCE *****

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-33	30 LT	10+50	3.5-5.0	A-2-7 (0)	53	19	62	8	5	25	93	55	29	24	+

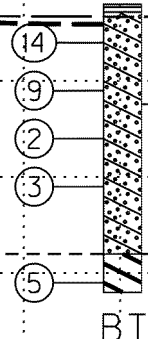
*Note: Station and Offset are on -Y5-



UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST TO WET, MEDIUM DENSE TO VERY LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY PLASTIC

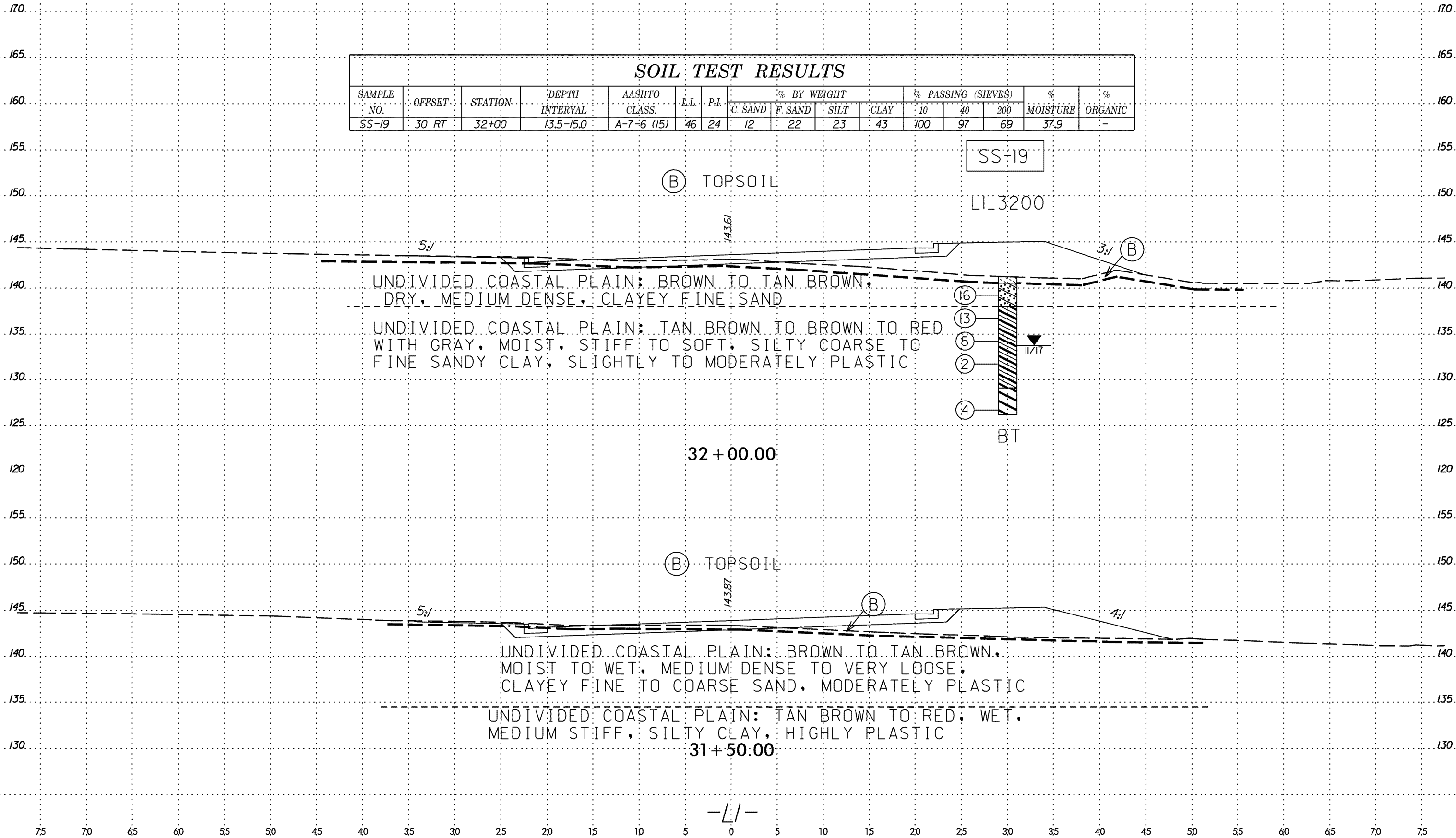
UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, WET, MEDIUM STIFF, SILTY CLAY, HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST TO WET, MEDIUM DENSE TO VERY LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY PLASTIC



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBSYSTEM: [unreadable]

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-19	30 RT	32+00	13.5-15.0	A-7-6 (15)	46	24	12	22	23	43	100	97	69	37.9	-



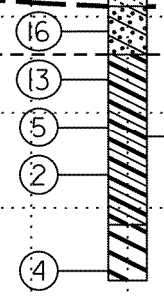
(B) TOPSOIL

SS-19

LI-3200

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, DRY, MEDIUM DENSE, CLAYEY FINE SAND

UNDIVIDED COASTAL PLAIN: TAN BROWN TO BROWN TO RED WITH GRAY, MOIST, STIFF TO SOFT, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC



BT

32 + 00.00

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST TO WET, MEDIUM DENSE TO VERY LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY PLASTIC

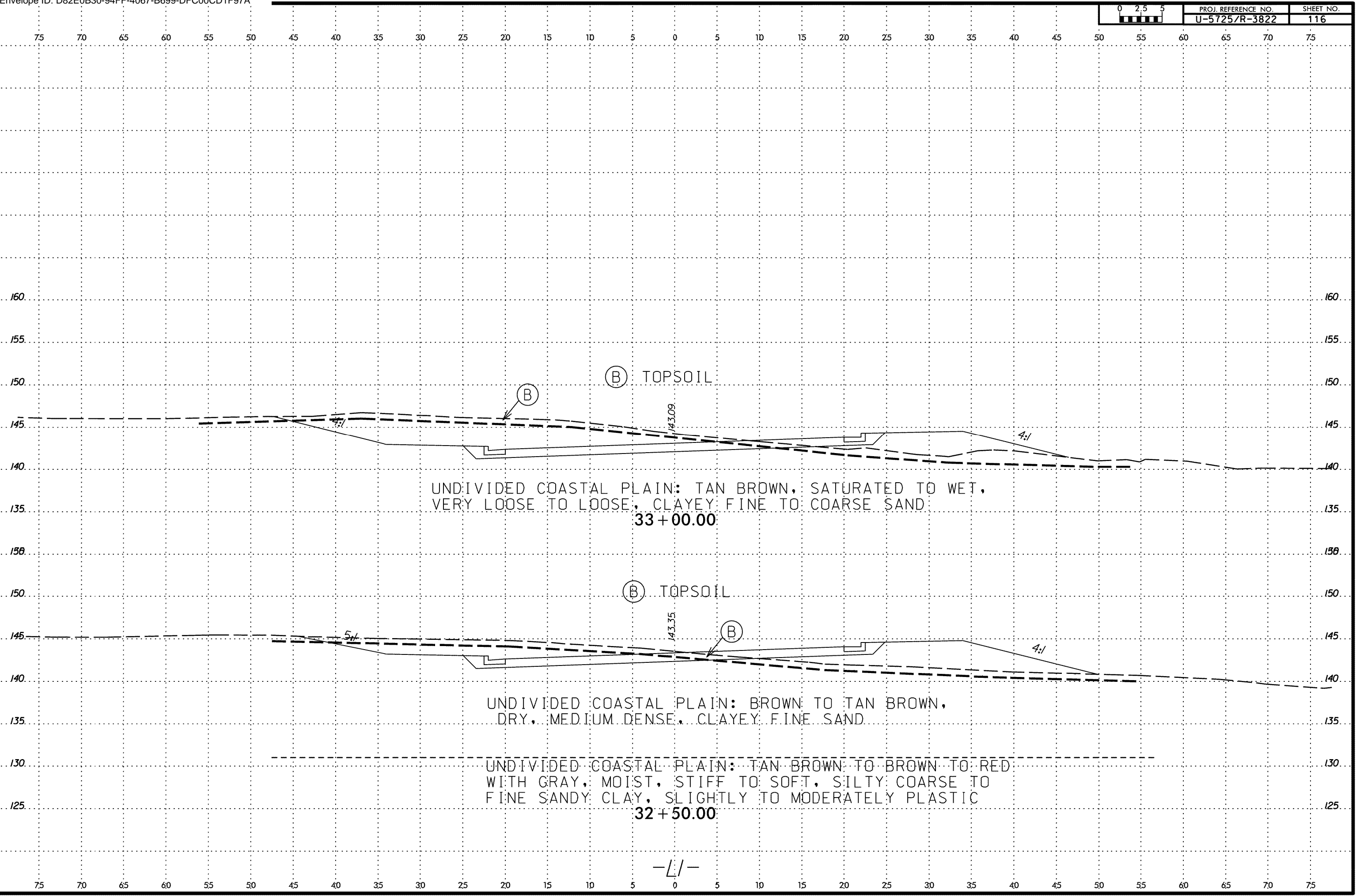
UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, WET, MEDIUM STIFF, SILTY CLAY, HIGHLY PLASTIC

31 + 50.00

-L/-

SYSTEM TIME: 6/23/16 11:17:17 AM
 USER: J. B. GIBSON
 USER NAME: J. B. GIBSON

6/23/16
SYSTEM
DATE
SUBURNAME



TOPSOIL

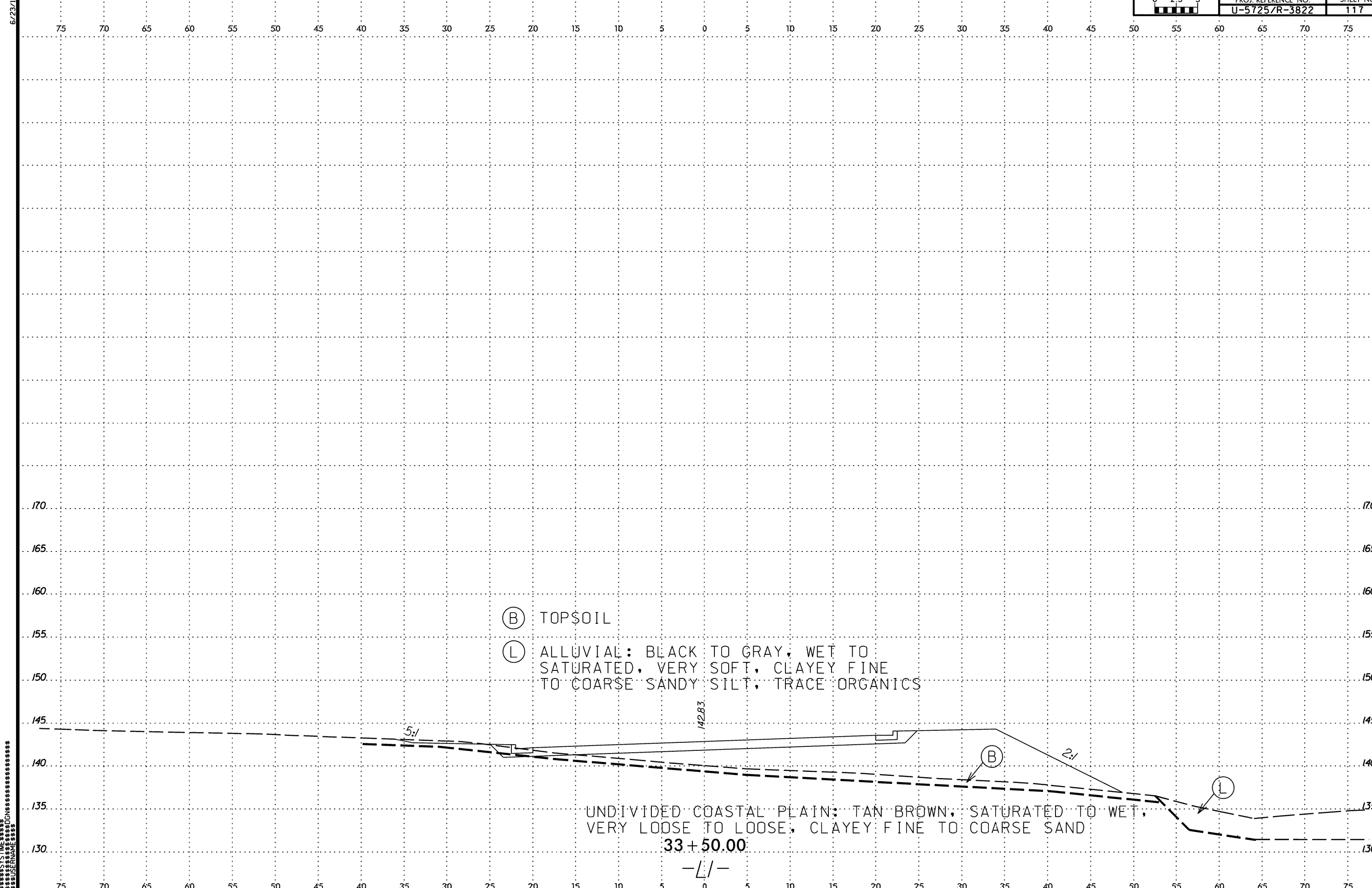
UNDIVIDED COASTAL PLAIN: TAN BROWN, SATURATED TO WET, VERY LOOSE TO LOOSE, CLAYEY FINE TO COARSE SAND
33+00.00

TOPSOIL

UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, DRY, MEDIUM DENSE, CLAYEY FINE SAND

UNDIVIDED COASTAL PLAIN: TAN BROWN TO BROWN TO RED WITH GRAY, MOIST, STIFF TO SOFT, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
32+50.00

-L/-



(B) TOPSOIL
 (L) ALLUVIAL: BLACK TO GRAY, WET TO SATURATED, VERY SOFT, CLAYEY FINE TO COARSE SANDY SILT, TRACE ORGANICS

UNDIVIDED COASTAL PLAIN: TAN BROWN, SATURATED TO WET, VERY LOOSE TO LOOSE, CLAYEY FINE TO COARSE SAND

33+50.00

-1/-

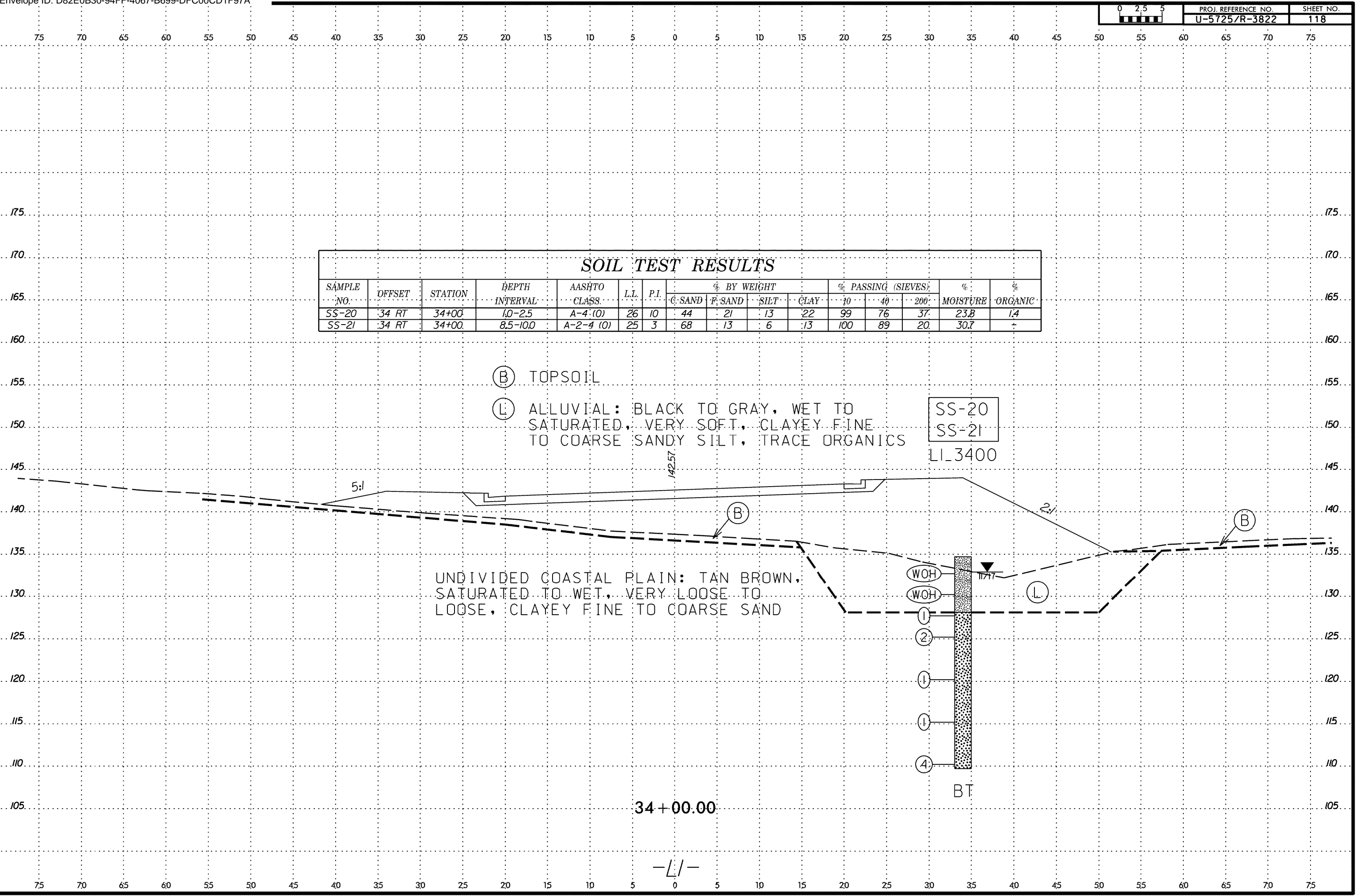
SYSTEMS
 DESIGN
 SUBMITTALS

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
SS-20	34 RT	34+00	1.0-2.5	A-4 (0)	26	10	44	21	13	22	99	76	37	23.8	1.4
SS-21	34 RT	34+00	8.5-10.0	A-2-A (0)	25	3	68	13	6	13	100	89	20	30.7	-

(B) TOPSOIL
 (L) ALLUVIAL: BLACK TO GRAY, WET TO SATURATED, VERY SOFT, CLAYEY FINE TO COARSE SANDY SILT, TRACE ORGANICS

SS-20
 SS-21
 LI_3400

UNDIVIDED COASTAL PLAIN: TAN BROWN, SATURATED TO WET, VERY LOOSE TO LOOSE, CLAYEY FINE TO COARSE SAND

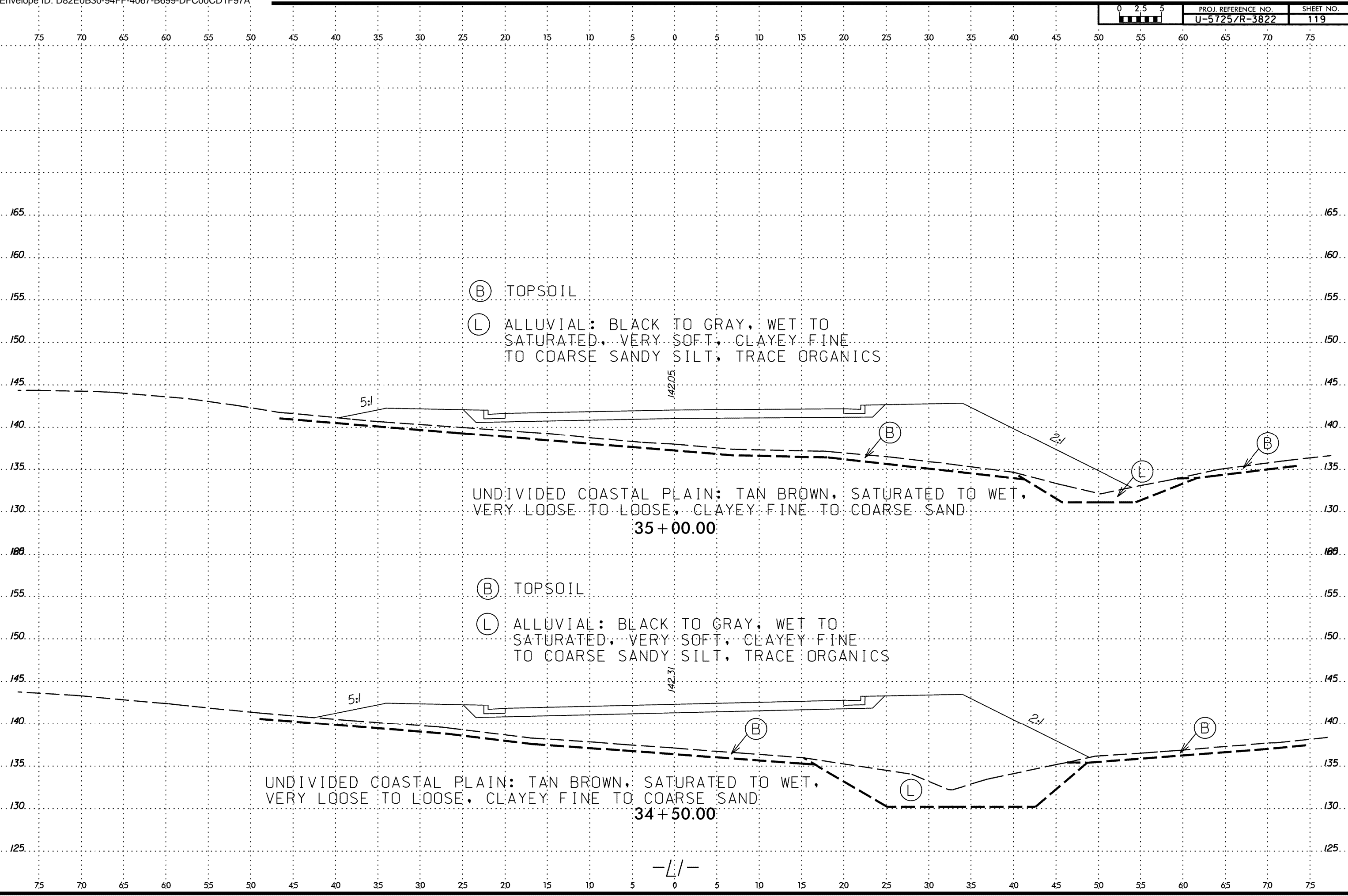


34 + 00.00

-L/-

SYSTEM TIME
 DATE AND TIME
 USER NAME

6/23/16
SYSTEMS
SUBSERNAME



(B) TOPSOIL
 (L) ALLUVIAL: BLACK TO GRAY, WET TO SATURATED, VERY SOFT, CLAYEY FINE TO COARSE SANDY SILT, TRACE ORGANICS

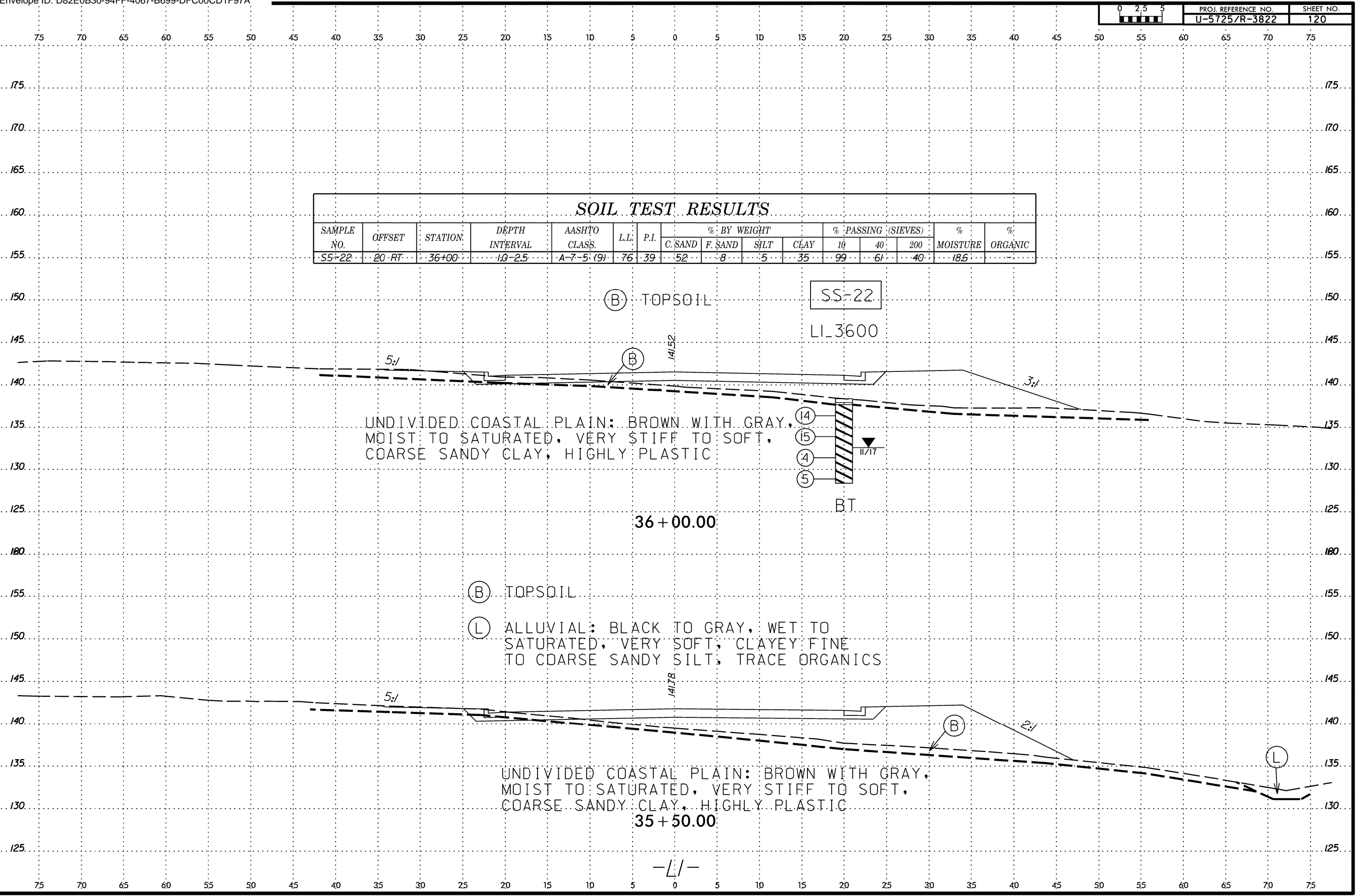
UNDIVIDED COASTAL PLAIN: TAN BROWN, SATURATED TO WET, VERY LOOSE TO LOOSE, CLAYEY FINE TO COARSE SAND.
 35 + 00.00

(B) TOPSOIL
 (L) ALLUVIAL: BLACK TO GRAY, WET TO SATURATED, VERY SOFT, CLAYEY FINE TO COARSE SANDY SILT, TRACE ORGANICS

UNDIVIDED COASTAL PLAIN: TAN BROWN, SATURATED TO WET, VERY LOOSE TO LOOSE, CLAYEY FINE TO COARSE SAND.
 34 + 50.00

-L/-

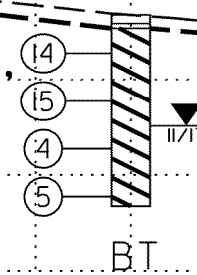
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-22	20 RT	36+00	1.0-2.5	A-7-5 (9)	76	39	52	8	5	35	99	61	40	18.5	



(B) TOPSOIL

SS-22
LI 3600

UNDIVIDED COASTAL PLAIN: BROWN WITH GRAY,
MOIST TO SATURATED, VERY STIFF TO SOFT,
COARSE SANDY CLAY, HIGHLY PLASTIC



36 + 00.00

(B) TOPSOIL

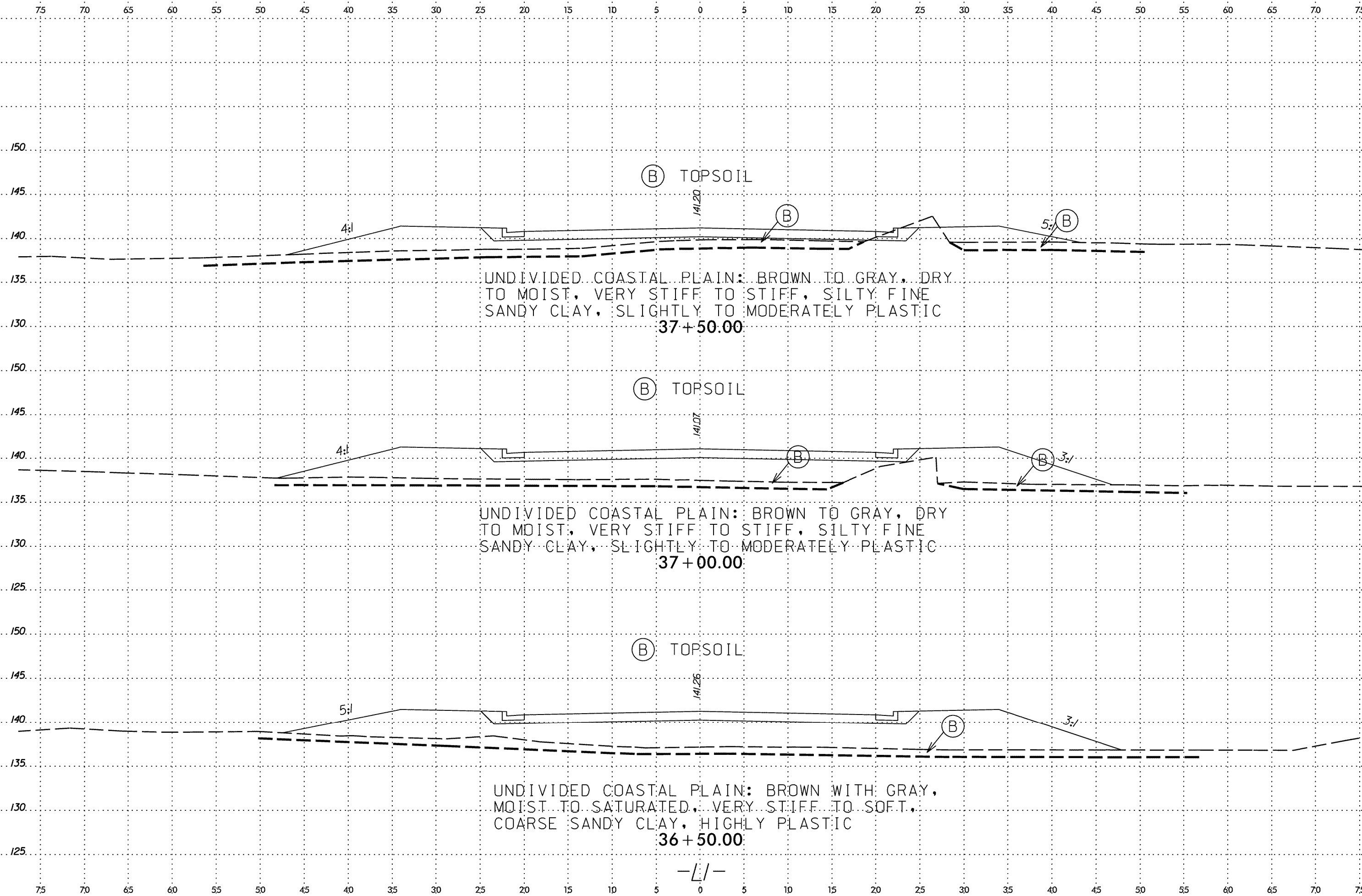
(L) ALLUVIAL: BLACK TO GRAY, WET TO
SATURATED, VERY SOFT, CLAYEY FINE
TO COARSE SANDY SILT, TRACE ORGANICS

UNDIVIDED COASTAL PLAIN: BROWN WITH GRAY,
MOIST TO SATURATED, VERY STIFF TO SOFT,
COARSE SANDY CLAY, HIGHLY PLASTIC

35 + 50.00

-L/-

SYSTEM TIME
DATE AND TIME
OPERATOR
SUBSYSTEM

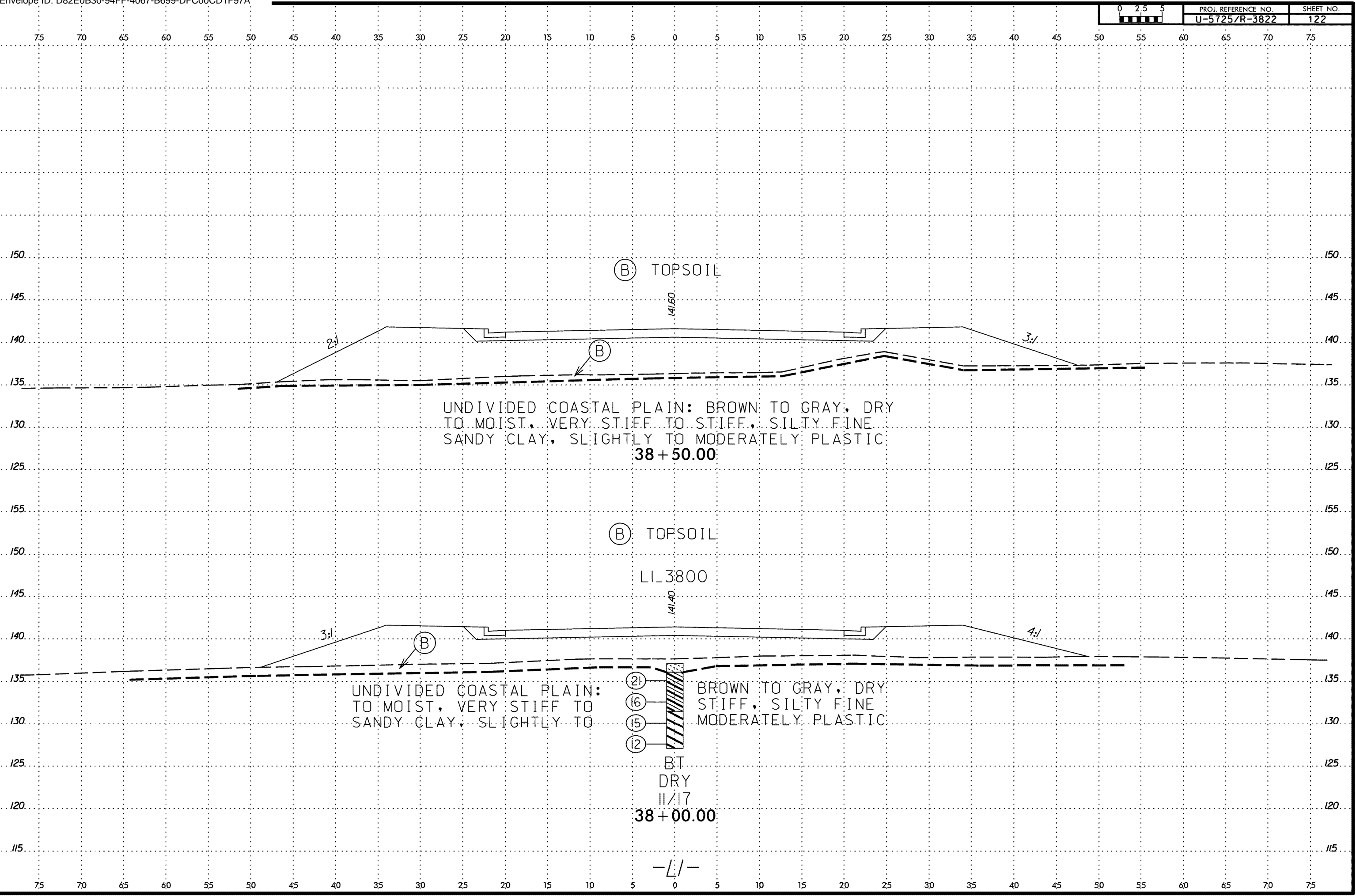


SYSTEM TIME

 USER NAME



6/23/16
SYSTEMS
DESIGN
SUBMITTAL



(B) TOPSOIL

141.60

2:1

(B)

3:1

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, DRY TO MOIST, VERY STIFF TO STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
38 + 50.00

(B) TOPSOIL

LI_3800

141.40

3:1

(B)

4:1

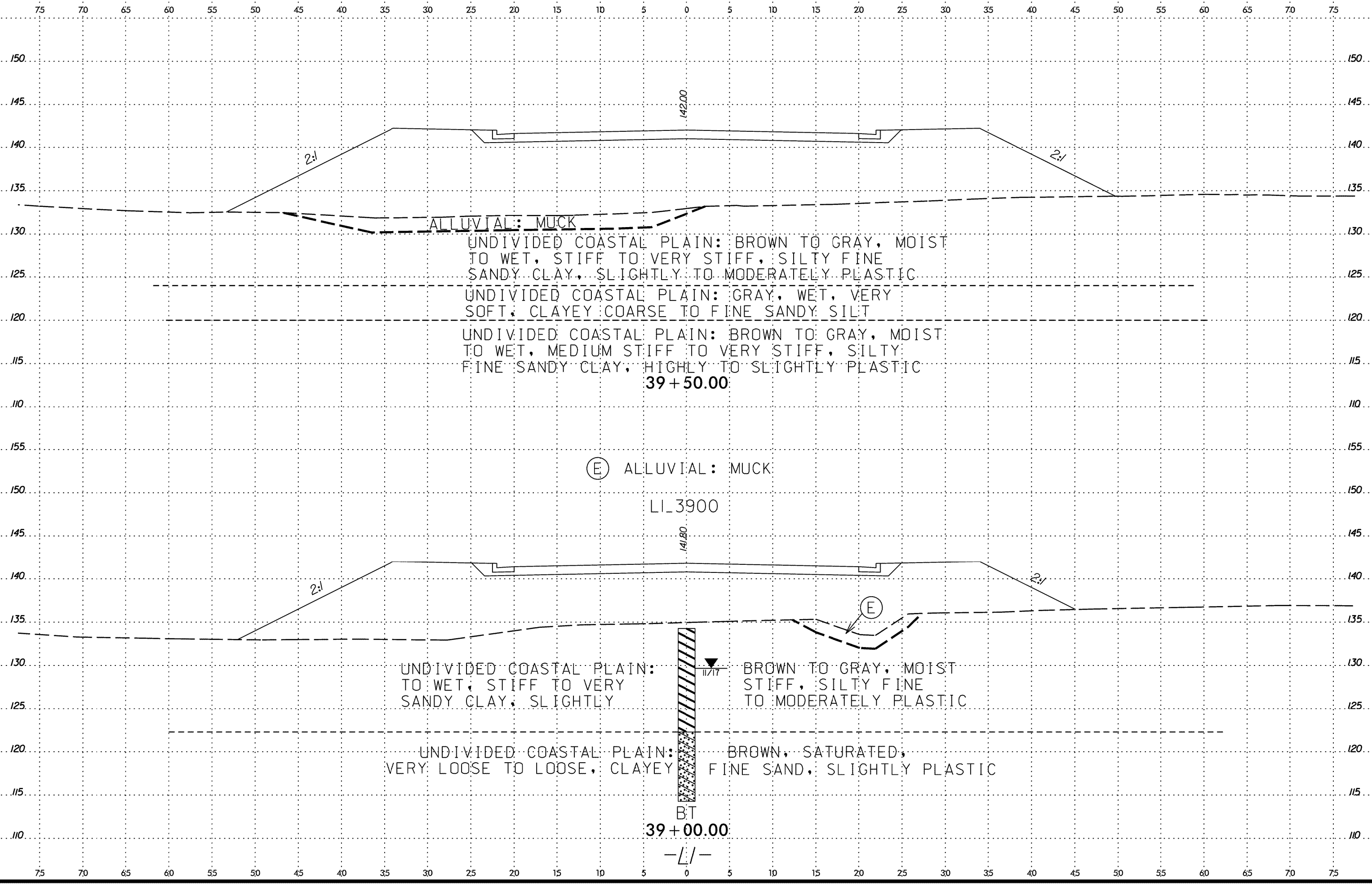
UNDIVIDED COASTAL PLAIN: TO MOIST, VERY STIFF TO SANDY CLAY, SLIGHTLY TO

- (21)
- (16)
- (15)
- (12)

BROWN TO GRAY, DRY STIFF, SILTY FINE MODERATELY PLASTIC

B.T
DRY
11/17
38 + 00.00

-L/-



6/23/16

 SYSTEM TIME *****

 USER NAME *****

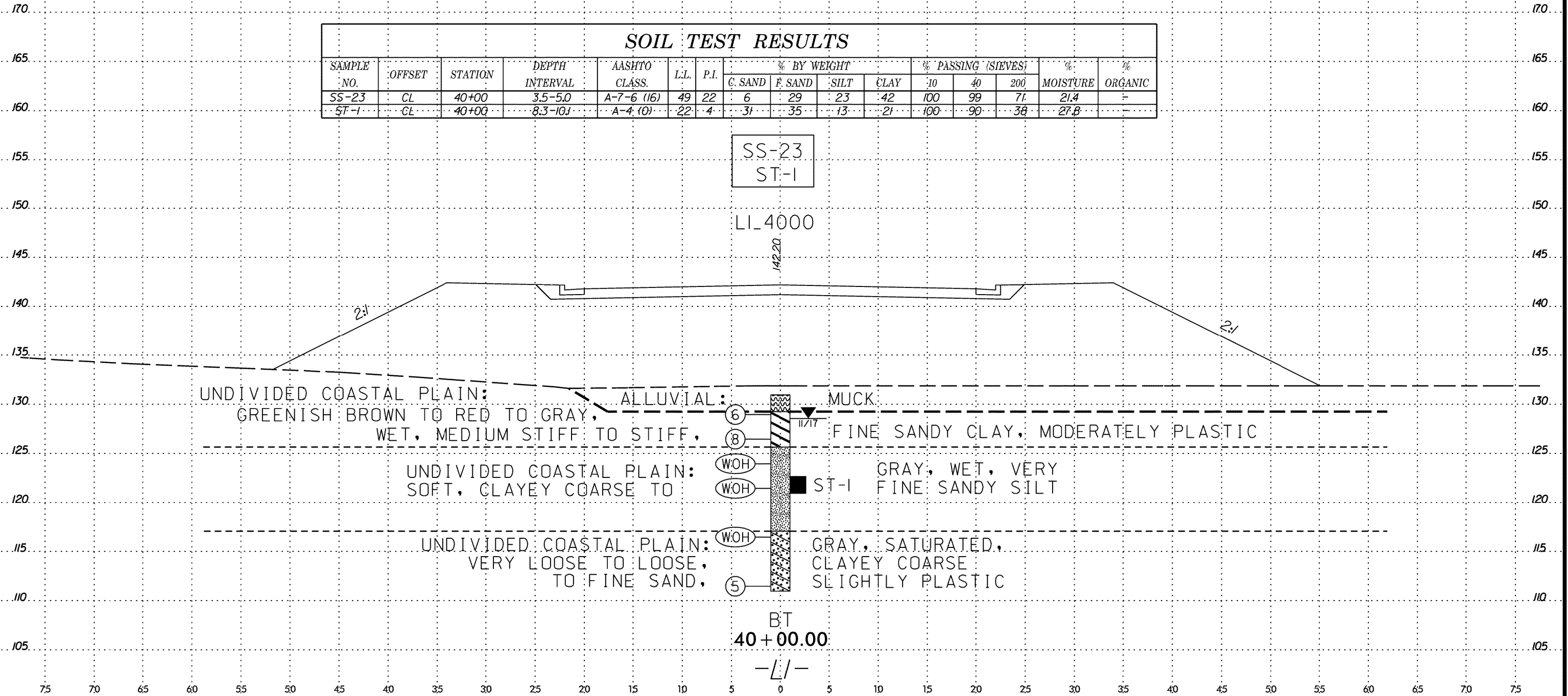
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	#10	#40	#200		
SS-23	CL	40+00	3.5-5.0	A-7-6 (16)	49	22	6	29	23	42	100	99	71	21.4	-
ST-1	CL	40+00	8.3-10.1	A-4 (10)	22	4	31	35	13	21	100	90	38	27.8	-

SS-23
ST-1

LI 4000

142.20



UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED TO GRAY, WET, MEDIUM STIFF TO STIFF, ALLUVIAL: MUCK

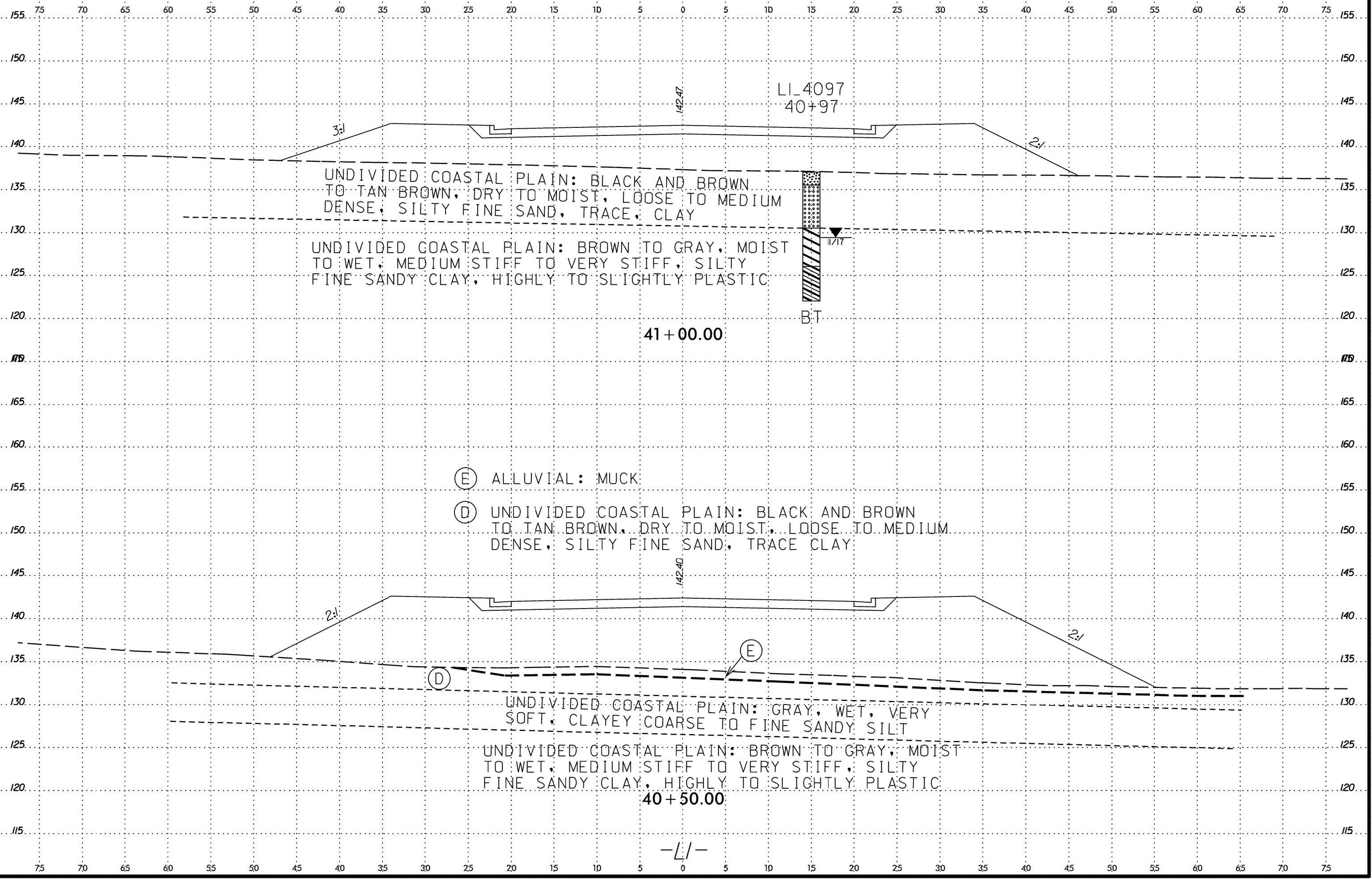
UNDIVIDED COASTAL PLAIN: SOFT, CLAYEY COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY, WET, VERY SOFT, CLAYEY COARSE TO FINE SANDY SILT

UNDIVIDED COASTAL PLAIN: GRAY, SATURATED, VERY LOOSE TO LOOSE, TO FINE SAND, SLIGHTLY PLASTIC

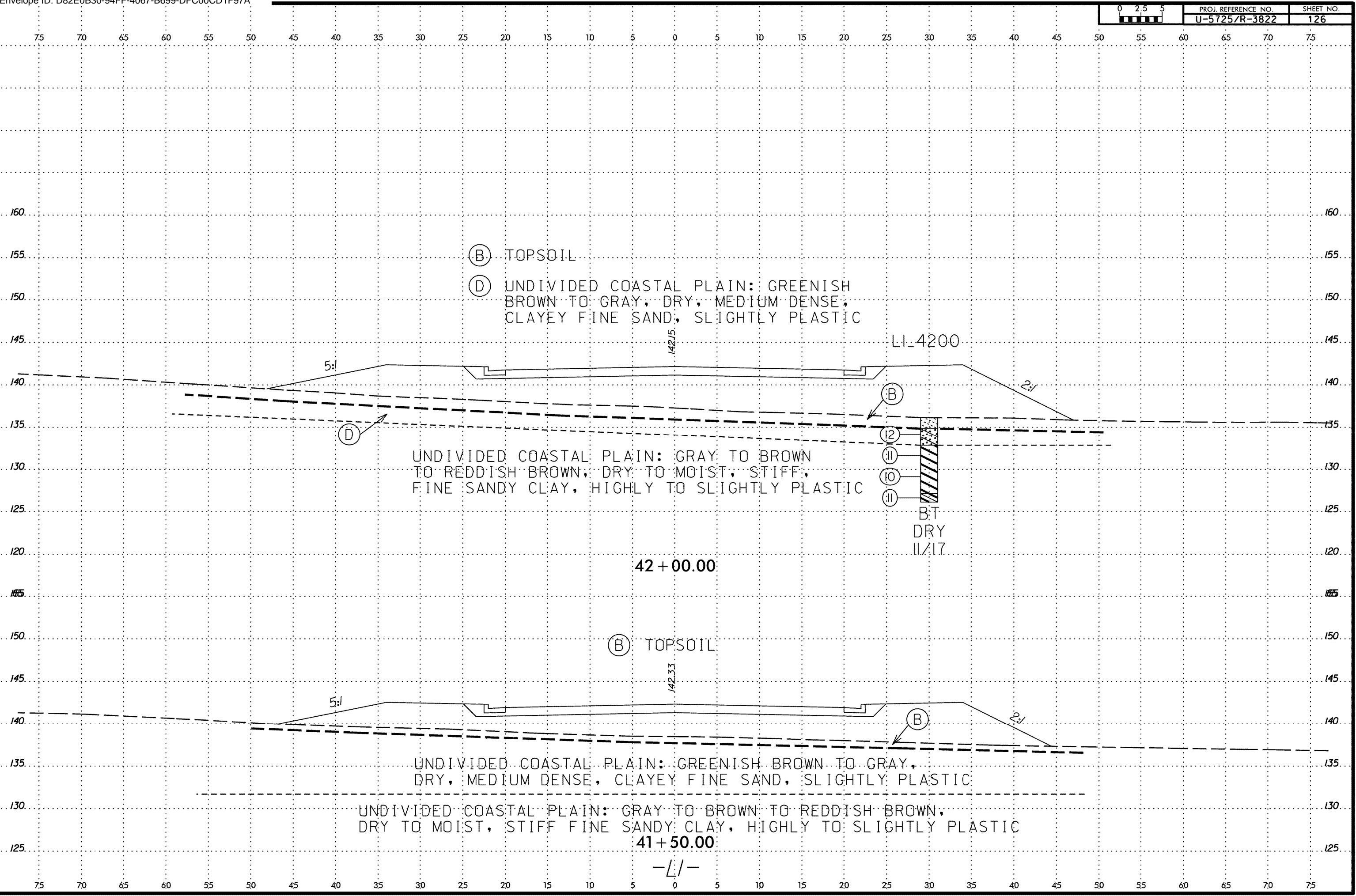
BT
40+00.00
-1/-

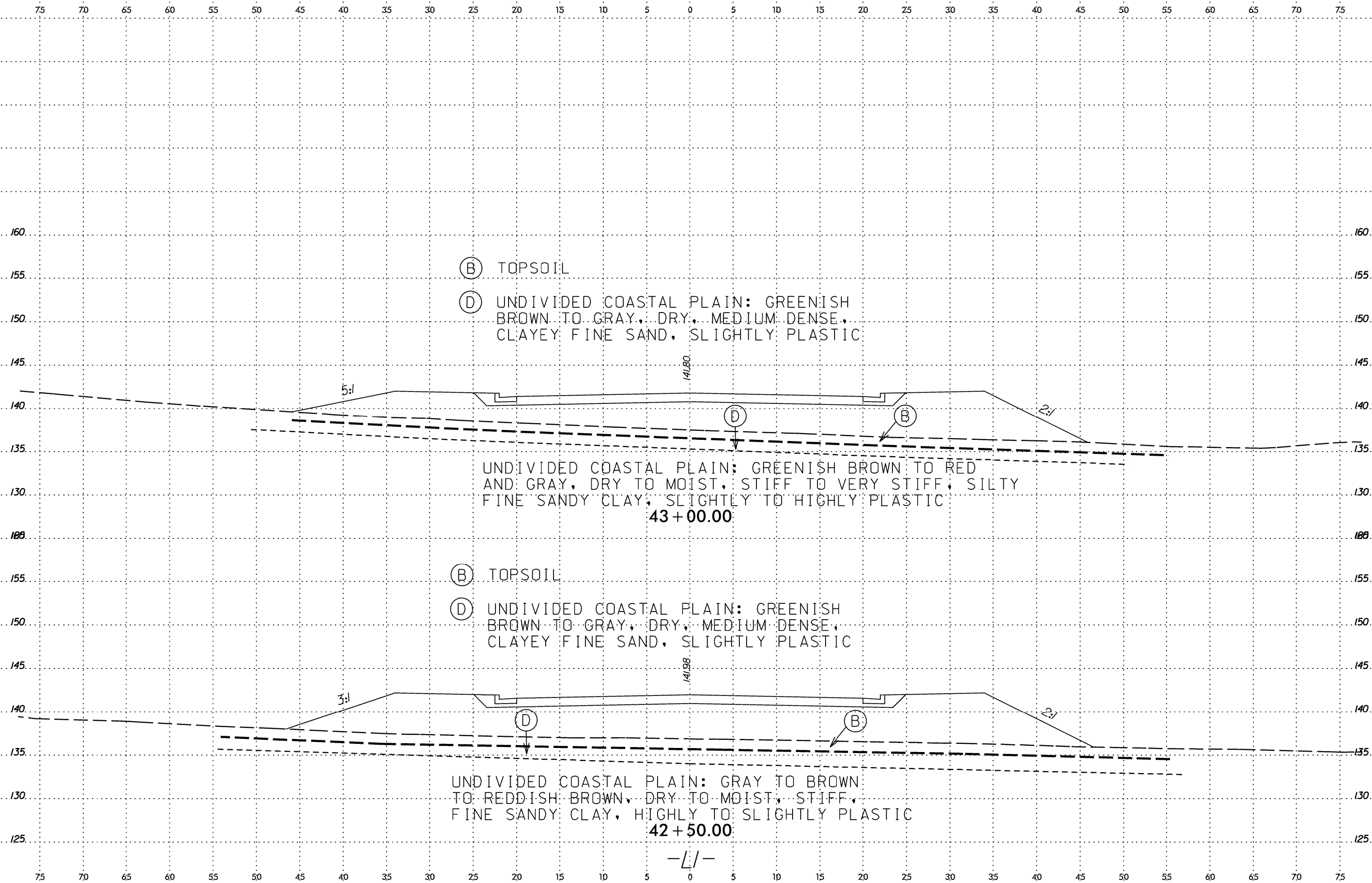
SYSTEM TIME
DATE
USER NAME



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 USER NAME: [unreadable]

6/23/16
SYSTEMS
SUBSERNAME



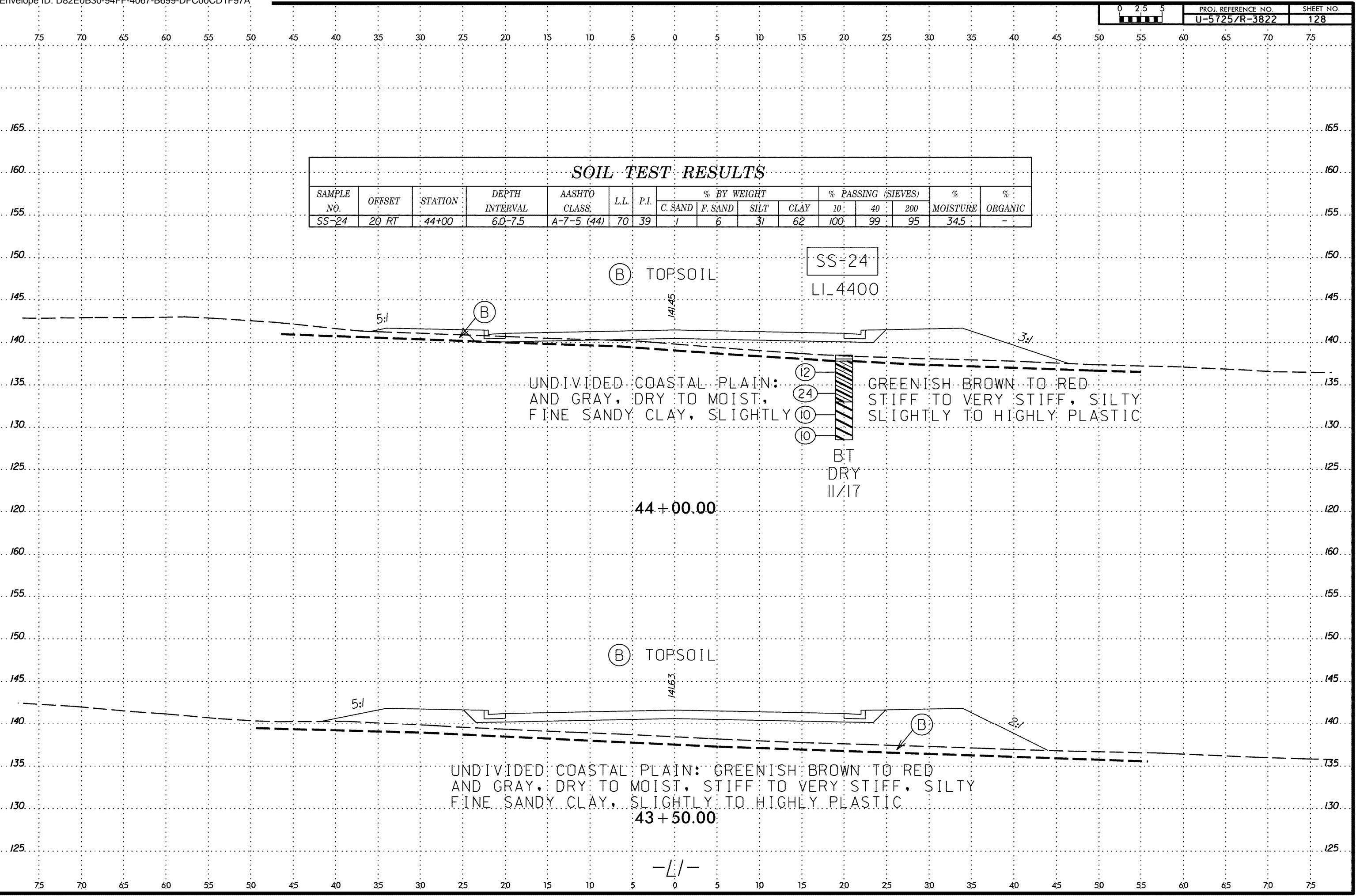


SYSTEM TIME

 USER NAME



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-24	20 RT	44+00	6.0-7.5	A-7-5 (44)	70	39	1	6	31	62	100	99	95	34.5	-



(B) TOPSOIL

SS-24
LI_4400

UNDIVIDED COASTAL PLAIN: AND GRAY, DRY TO MOIST, FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

GREENISH BROWN TO RED STIFF TO VERY STIFF, SILTY SLIGHTLY TO HIGHLY PLASTIC

12
24
10
10
BT
DRY
11/17

44+00.00

(B) TOPSOIL

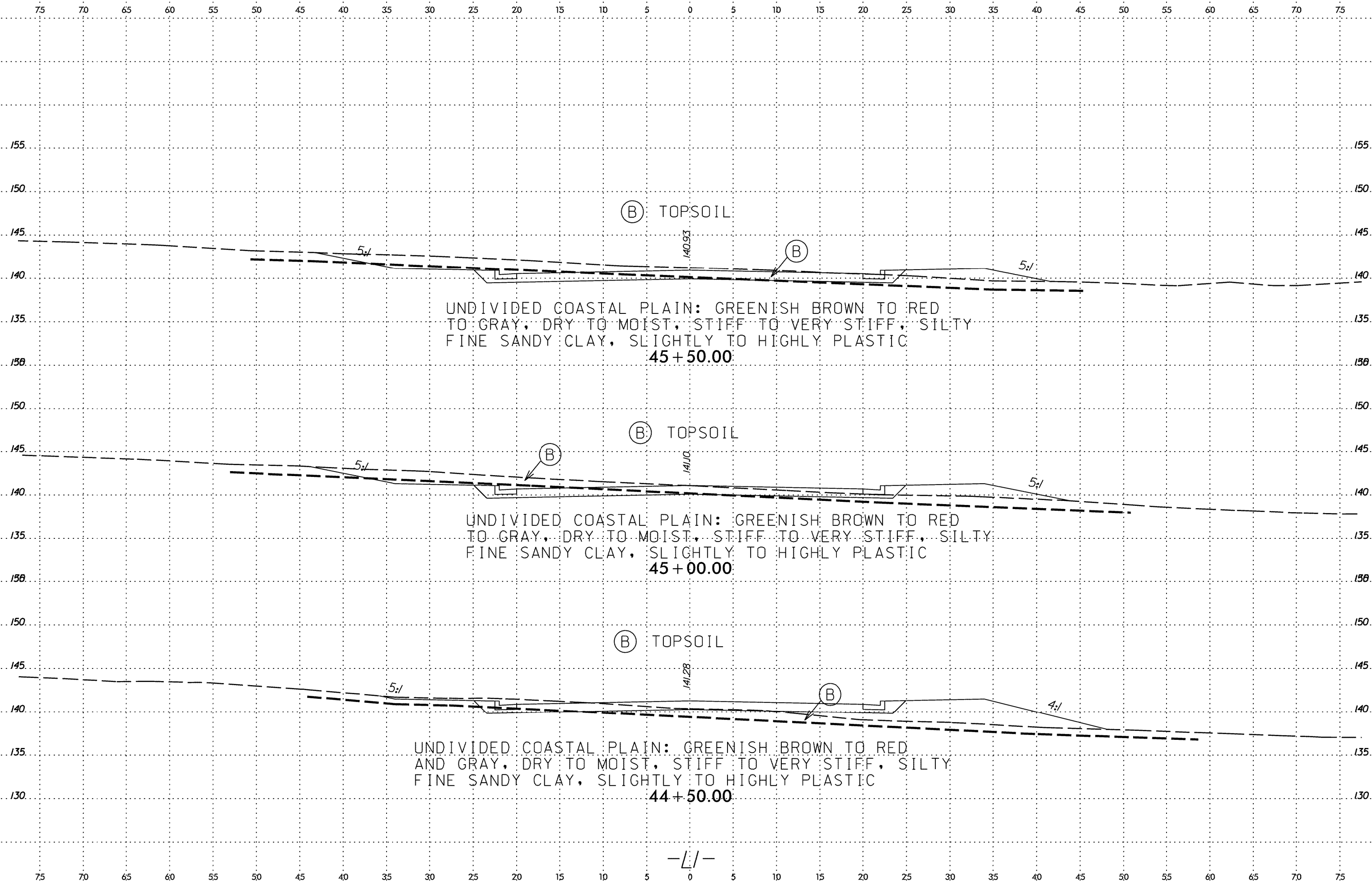
UNDIVIDED COASTAL PLAIN: AND GRAY, DRY TO MOIST, FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

GREENISH BROWN TO RED STIFF TO VERY STIFF, SILTY SLIGHTLY TO HIGHLY PLASTIC

43+50.00

-1/-

SYSTEMS
DESIGN
SERVICES



(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED TO GRAY, DRY TO MOIST, STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

45+50.00

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED TO GRAY, DRY TO MOIST, STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

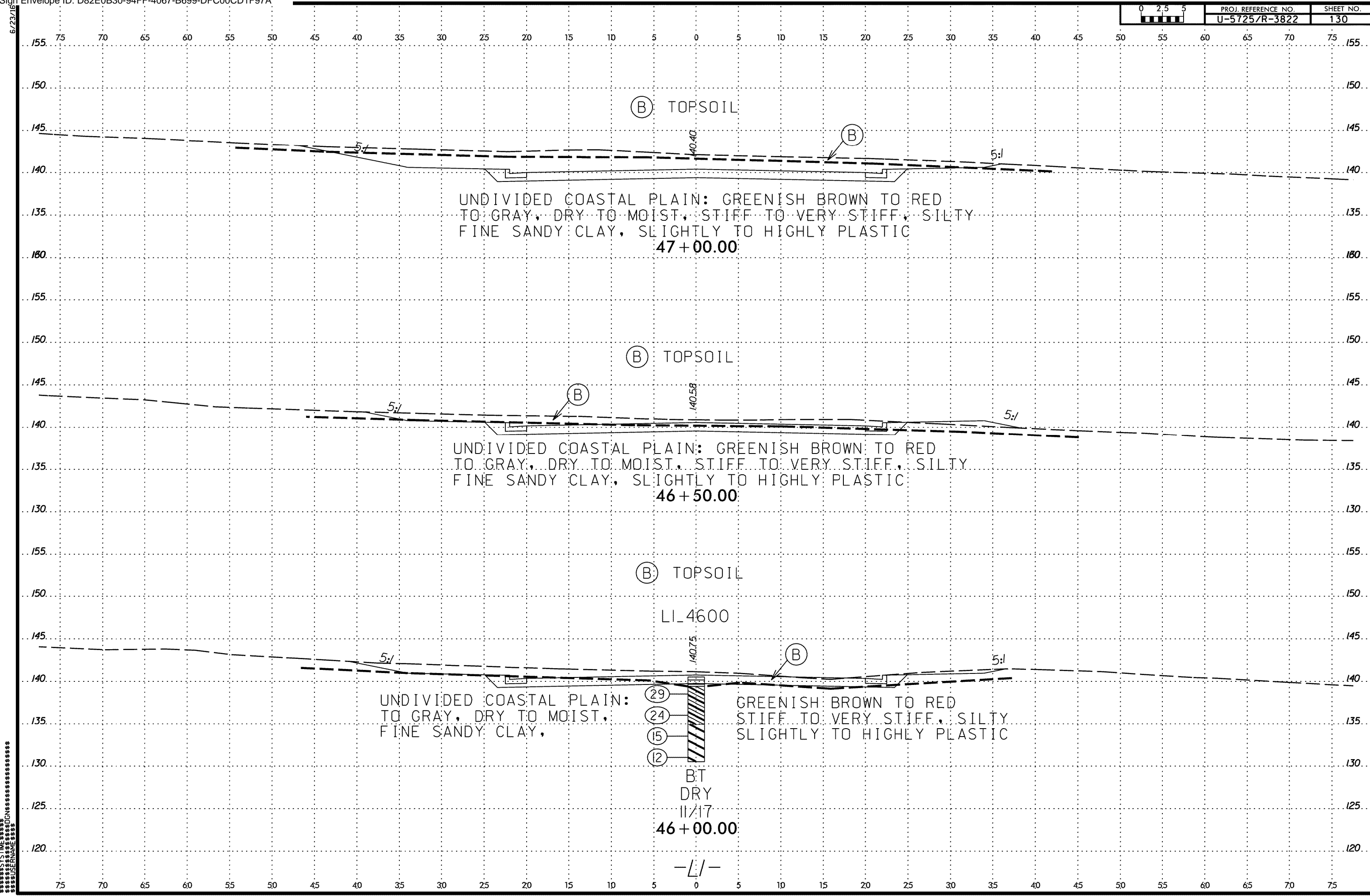
45+00.00

(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED AND GRAY, DRY TO MOIST, STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

44+50.00

SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBUSERNAME: [unreadable]



UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED TO GRAY, DRY TO MOIST, STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC
47+00.00

UNDIVIDED COASTAL PLAIN: GREENISH BROWN TO RED TO GRAY, DRY TO MOIST, STIFF TO VERY STIFF, SILTY FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC
46+50.00

UNDIVIDED COASTAL PLAIN: TO GRAY, DRY TO MOIST, FINE SANDY CLAY,

GREENISH BROWN TO RED STIFF TO VERY STIFF, SILTY SLIGHTLY TO HIGHLY PLASTIC

(B) TOPSOIL

(B) TOPSOIL

(B) TOPSOIL

LI_4600

- (29)
- (24)
- (15)
- (12)

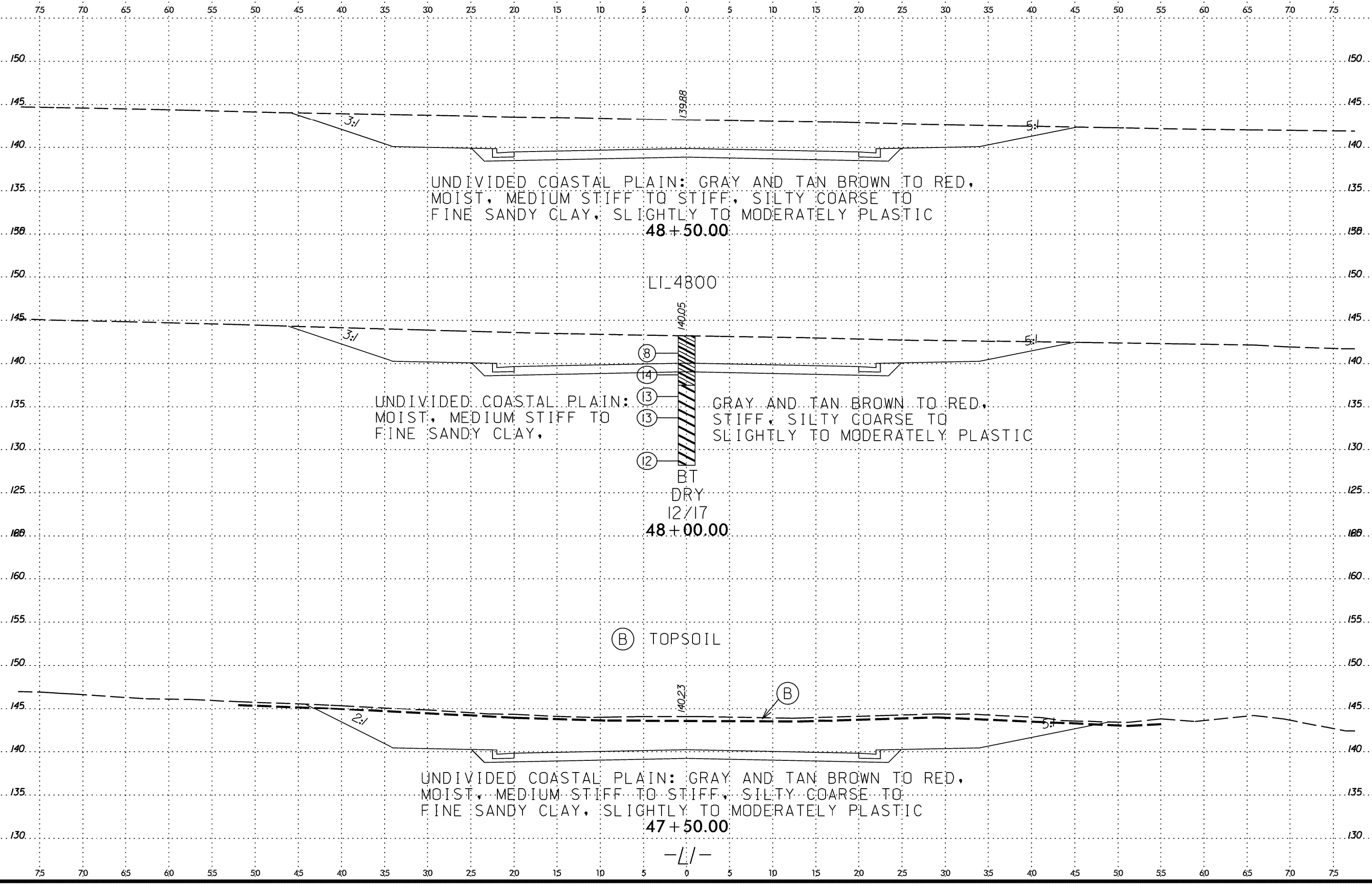
B.T
DRY
11/17
46+00.00

-L/-

SYSTEM TIME *****

SESSION *****

USER NAME *****



UNDIVIDED COASTAL PLAIN: GRAY AND TAN BROWN TO RED,
 MOIST, MEDIUM STIFF TO STIFF, SILTY COARSE TO
 FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
 48+50.00

UNDIVIDED COASTAL PLAIN: GRAY AND TAN BROWN TO RED,
 MOIST, MEDIUM STIFF TO STIFF, SILTY COARSE TO
 FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC

BT
 DRY
 12/17
 48+00.00

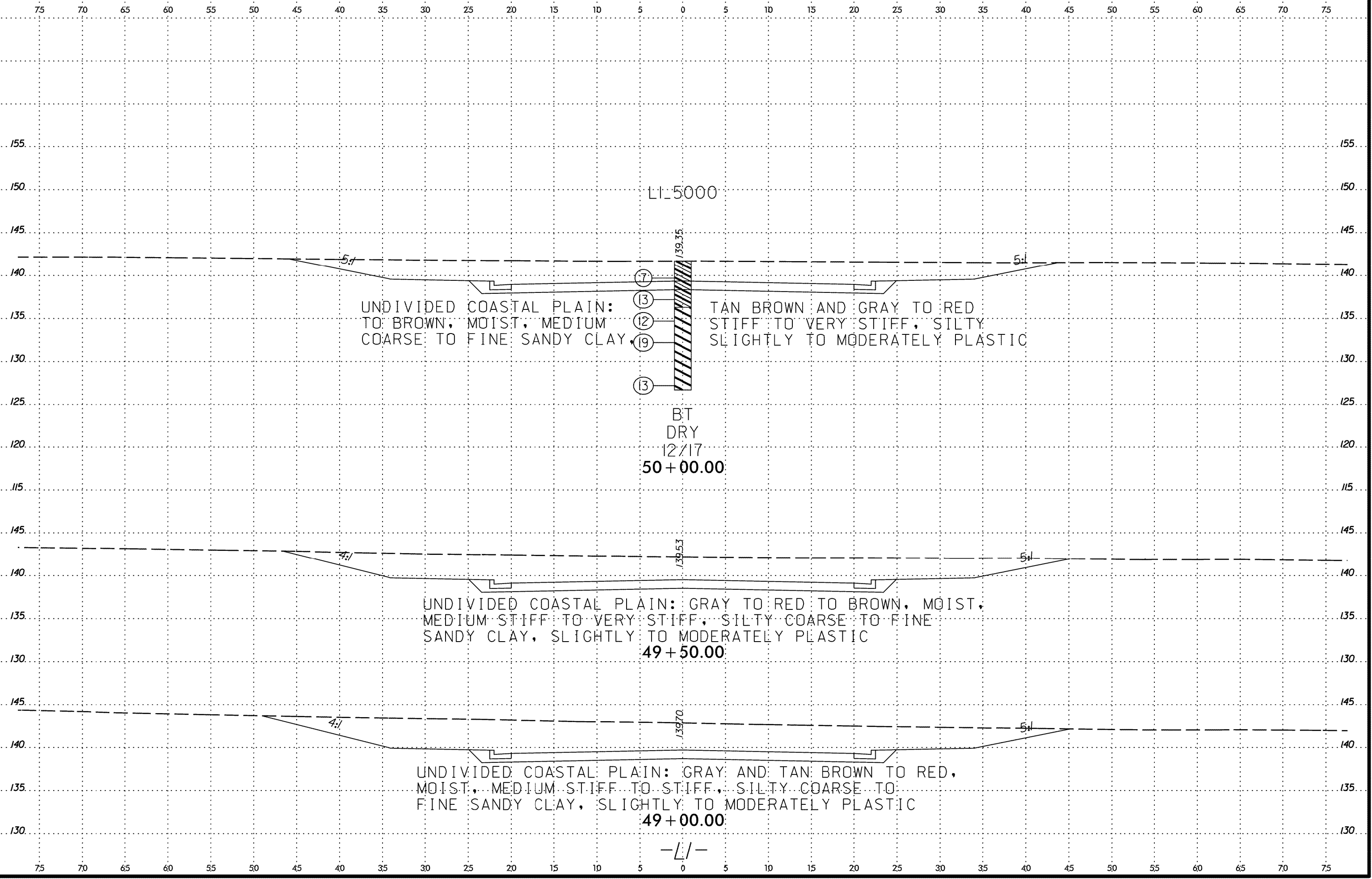
(B) TOPSOIL

UNDIVIDED COASTAL PLAIN: GRAY AND TAN BROWN TO RED,
 MOIST, MEDIUM STIFF TO STIFF, SILTY COARSE TO
 FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
 47+50.00

-L/-

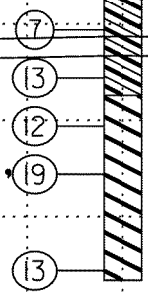
 SYSTEM TIME *****

 USER NAME *****



UNDIVIDED COASTAL PLAIN:
TO BROWN, MOIST, MEDIUM
COARSE TO FINE SANDY CLAY

TAN BROWN AND GRAY TO RED
STIFF TO VERY STIFF, SILTY
SLIGHTLY TO MODERATELY PLASTIC



BT
DRY
12/17
50+00.00

UNDIVIDED COASTAL PLAIN: GRAY TO RED TO BROWN, MOIST,
MEDIUM STIFF TO VERY STIFF, SILTY COARSE TO FINE
SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
49+50.00

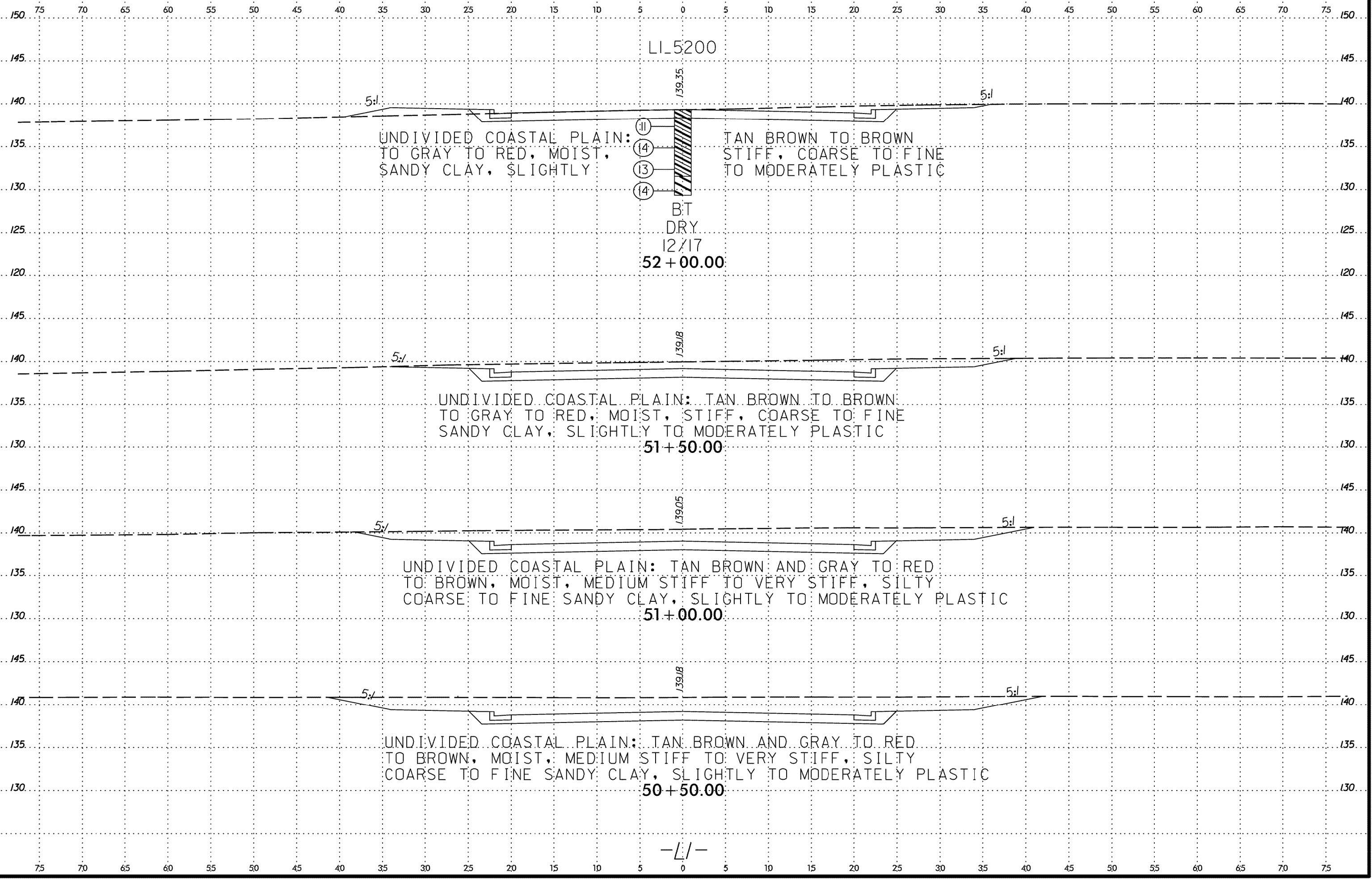
UNDIVIDED COASTAL PLAIN: GRAY AND TAN BROWN TO RED,
MOIST, MEDIUM STIFF TO STIFF, SILTY COARSE TO
FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC
49+00.00

-L/-

SYSTEM TIME *****

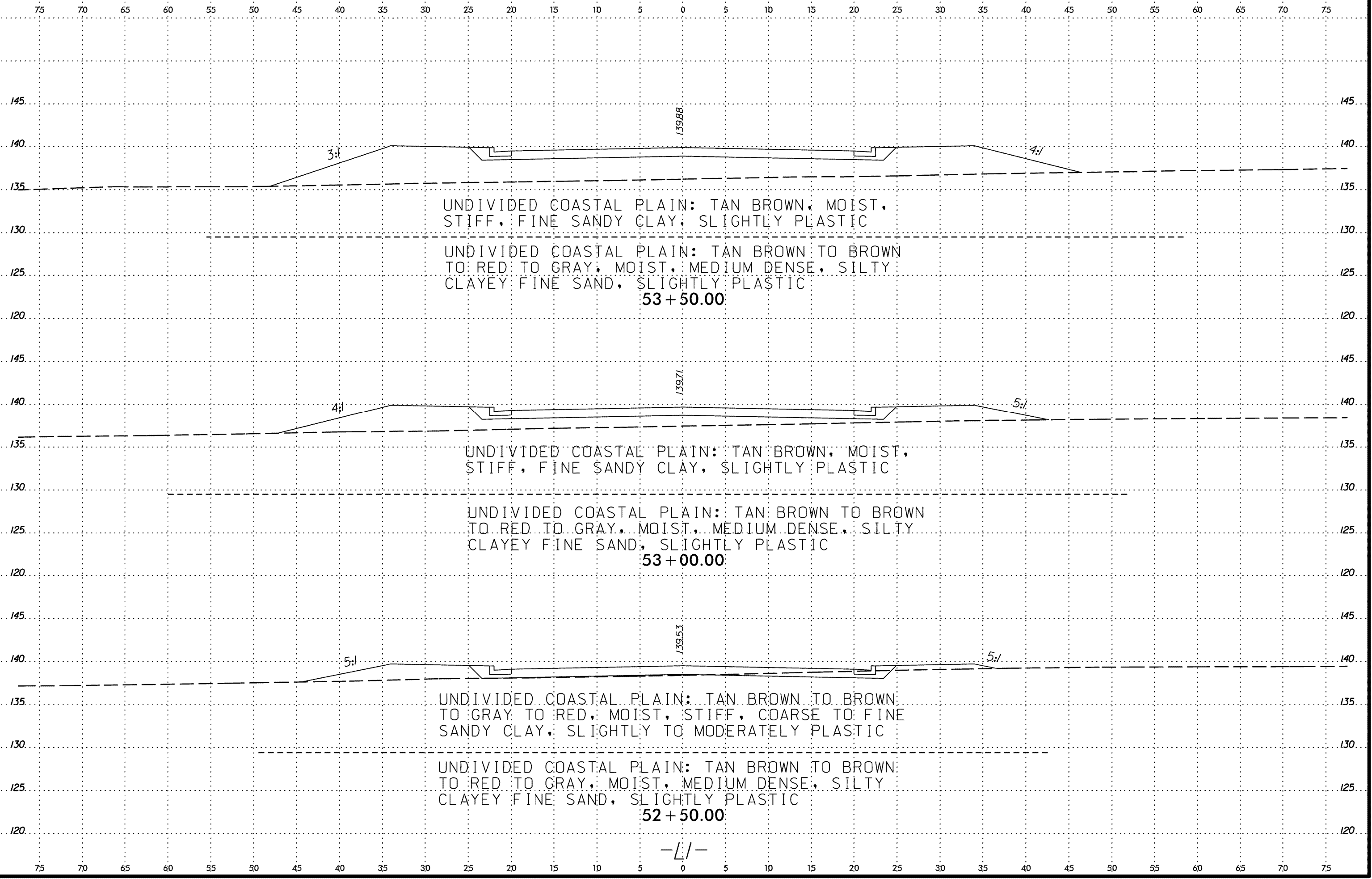
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USER NAME *****



-1/-

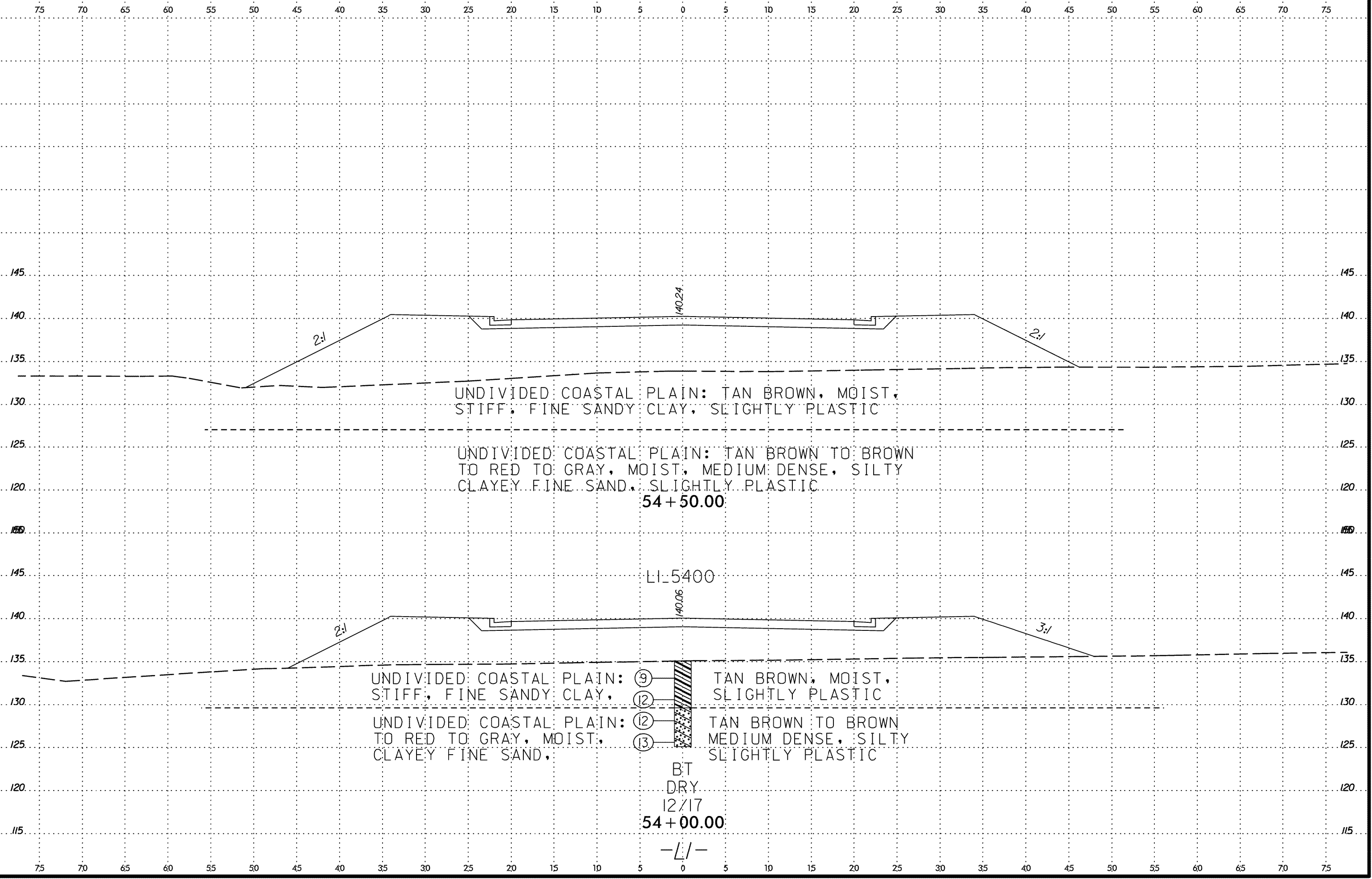
SYSTEM TIME
DATE
USER NAME



6/23/16

 SYSTEM TIME *****

 USER *****



UNDIVIDED COASTAL PLAIN: TAN BROWN, MOIST,
STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

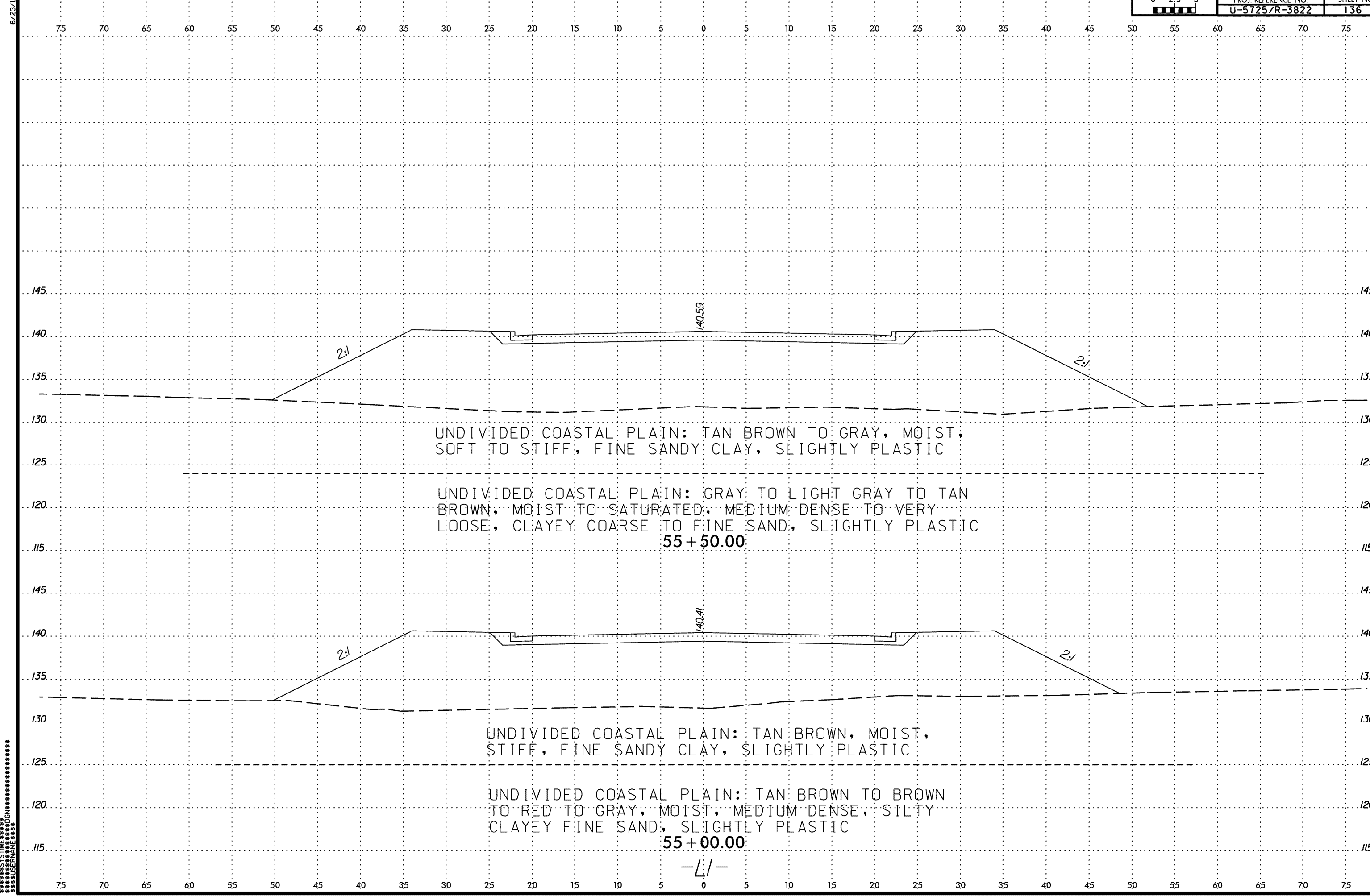
UNDIVIDED COASTAL PLAIN: TAN BROWN TO BROWN
TO RED TO GRAY, MOIST, MEDIUM DENSE, SILTY
CLAYEY FINE SAND, SLIGHTLY PLASTIC
54 + 50.00

UNDIVIDED COASTAL PLAIN: ⑨ — TAN BROWN, MOIST,
STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC
UNDIVIDED COASTAL PLAIN: ⑫ — TAN BROWN TO BROWN
TO RED TO GRAY, MOIST, MEDIUM DENSE, SILTY
CLAYEY FINE SAND, SLIGHTLY PLASTIC
⑬ —

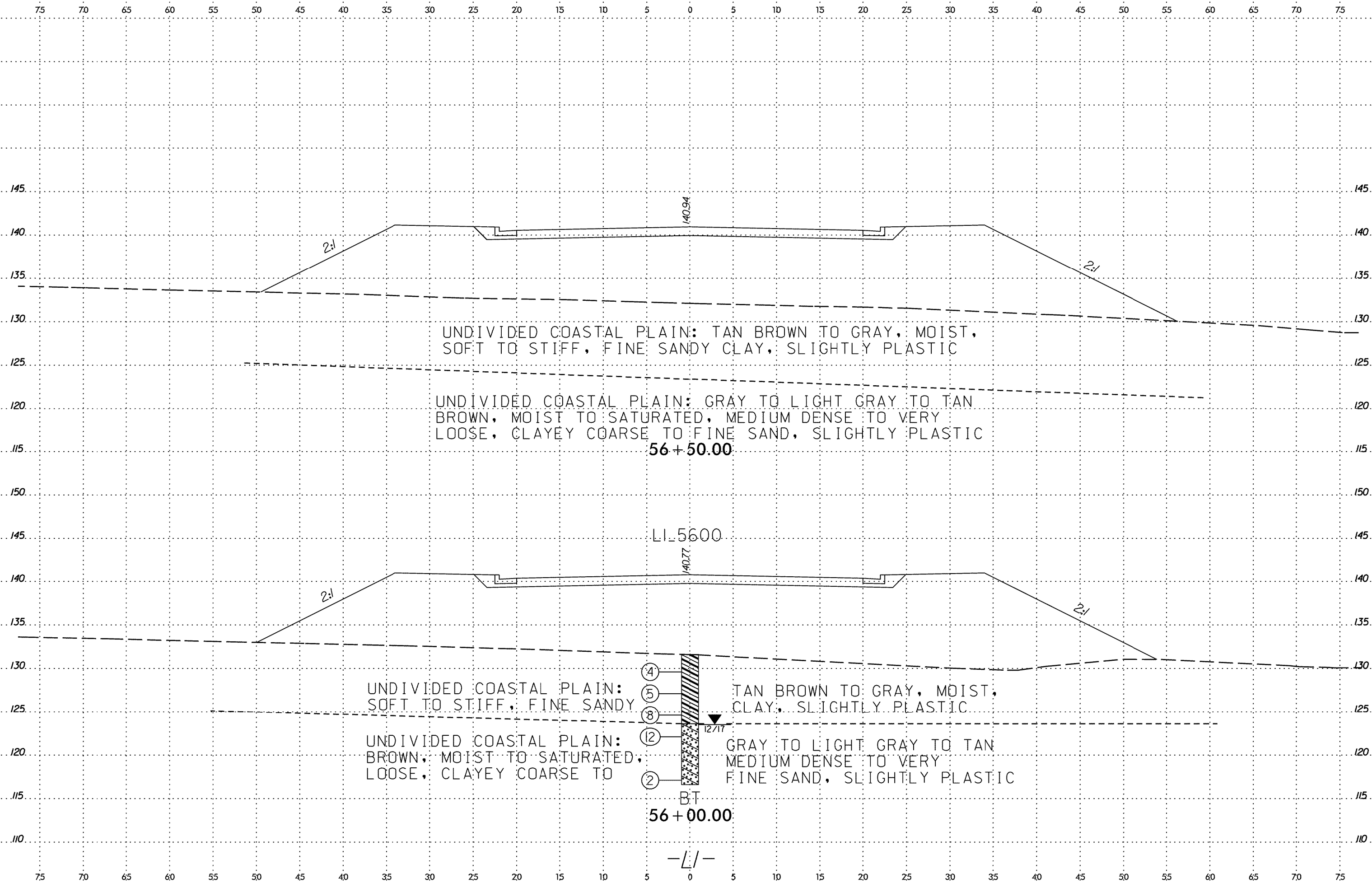
BT
DRY
12/17
54 + 00.00

-L/-

SYSTEM TIME *****
 DATE AND TIME *****
 USER NAME *****



SYSTEM TIME
 USER NAME



UNDIVIDED COASTAL PLAIN: TAN BROWN TO GRAY, MOIST,
SOFT TO STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO LIGHT GRAY TO TAN
BROWN, MOIST TO SATURATED, MEDIUM DENSE TO VERY
LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

56+50.00

LI 5600

UNDIVIDED COASTAL PLAIN:
SOFT TO STIFF, FINE SANDY

TAN BROWN TO GRAY, MOIST,
CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN:
BROWN, MOIST TO SATURATED,
LOOSE, CLAYEY COARSE TO

GRAY TO LIGHT GRAY TO TAN
MEDIUM DENSE TO VERY
FINE SAND, SLIGHTLY PLASTIC

- ④
- ⑤
- ⑧
- ⑫
- ②

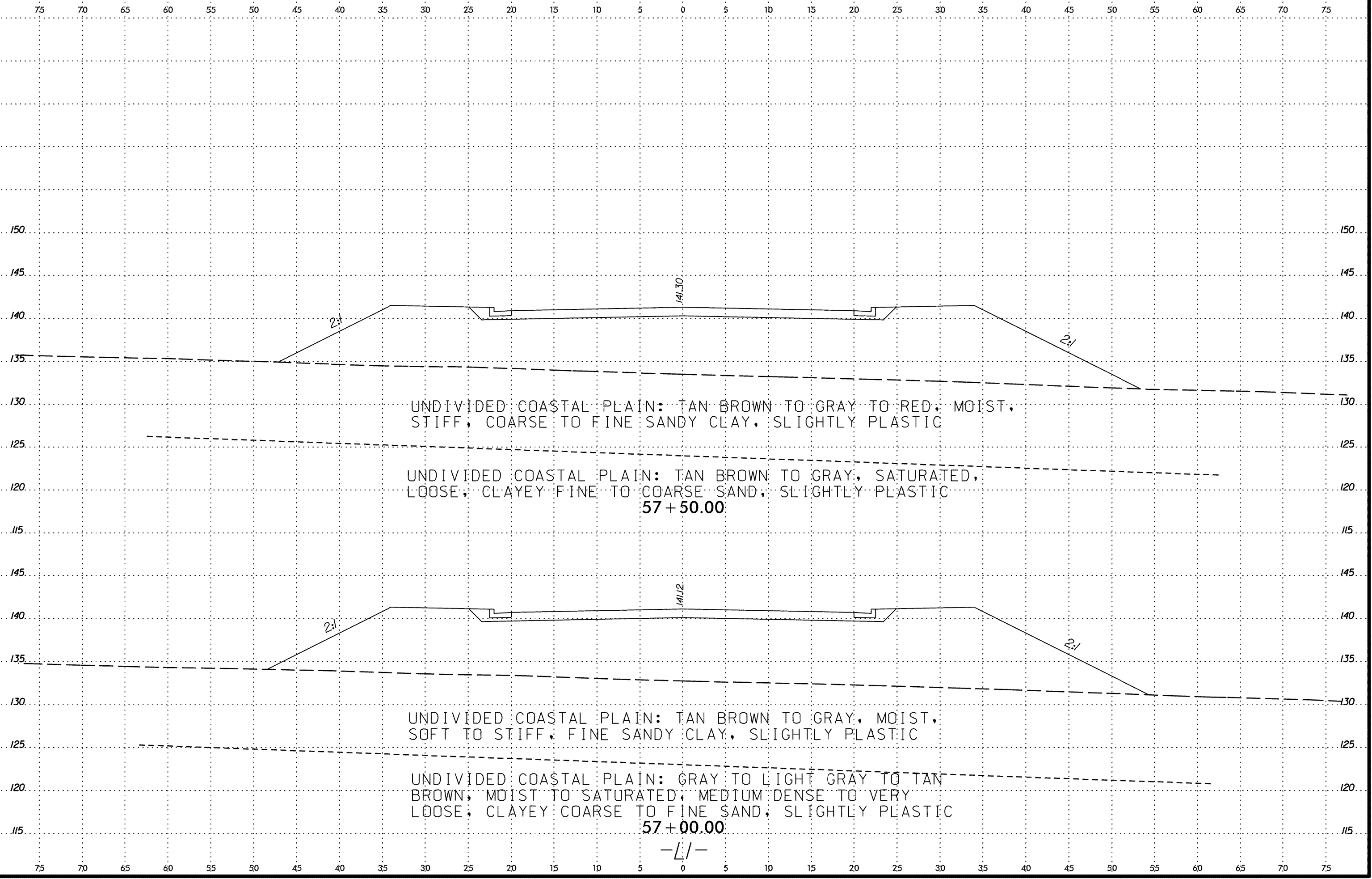
BT

56+00.00

127.17

-L/-

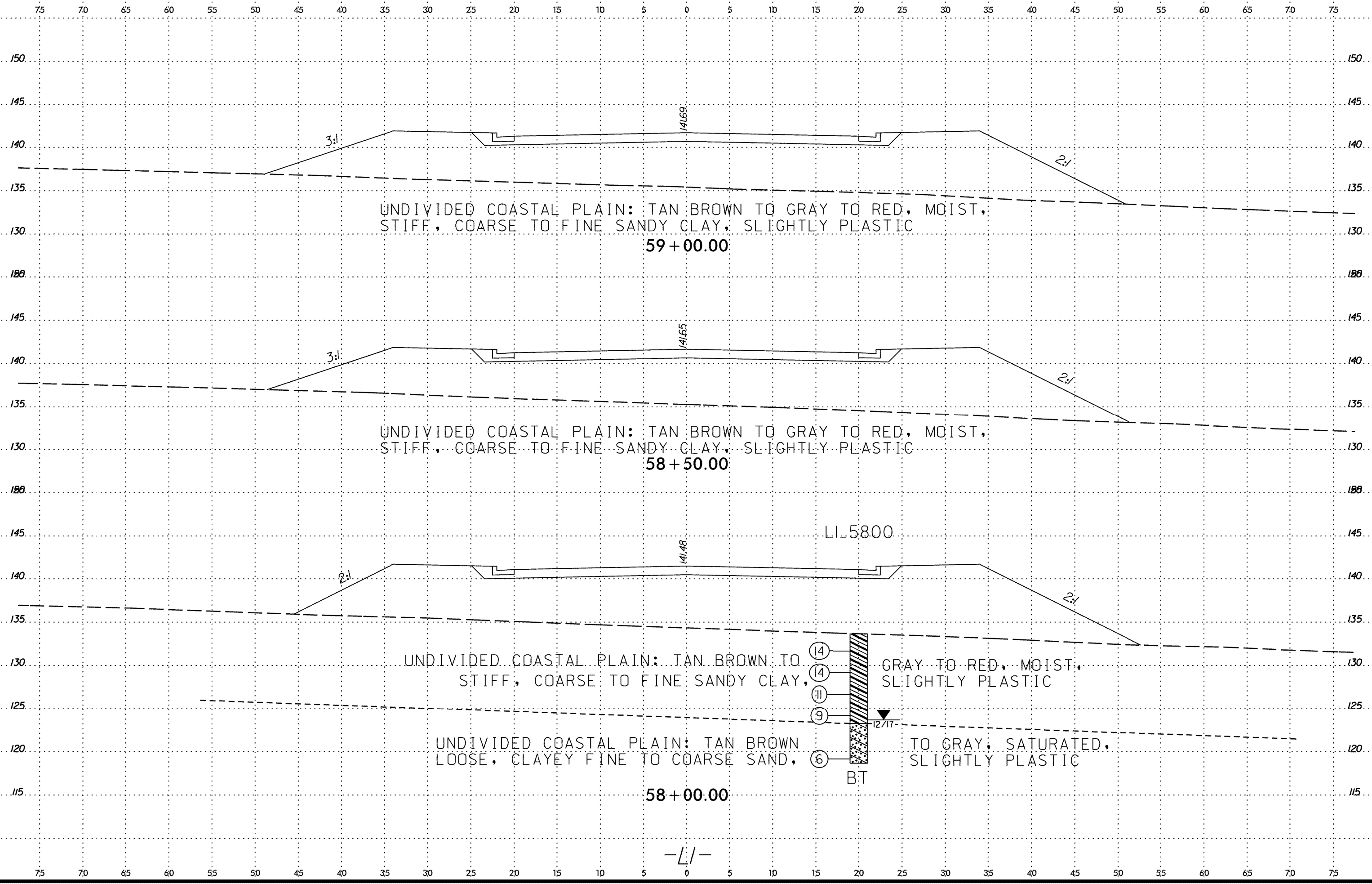
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 USER COUNTRY
 USER CITY
 USER STATE
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 USER DATE
 USER TIME



6/23/16

 SYSTEM TIME *****

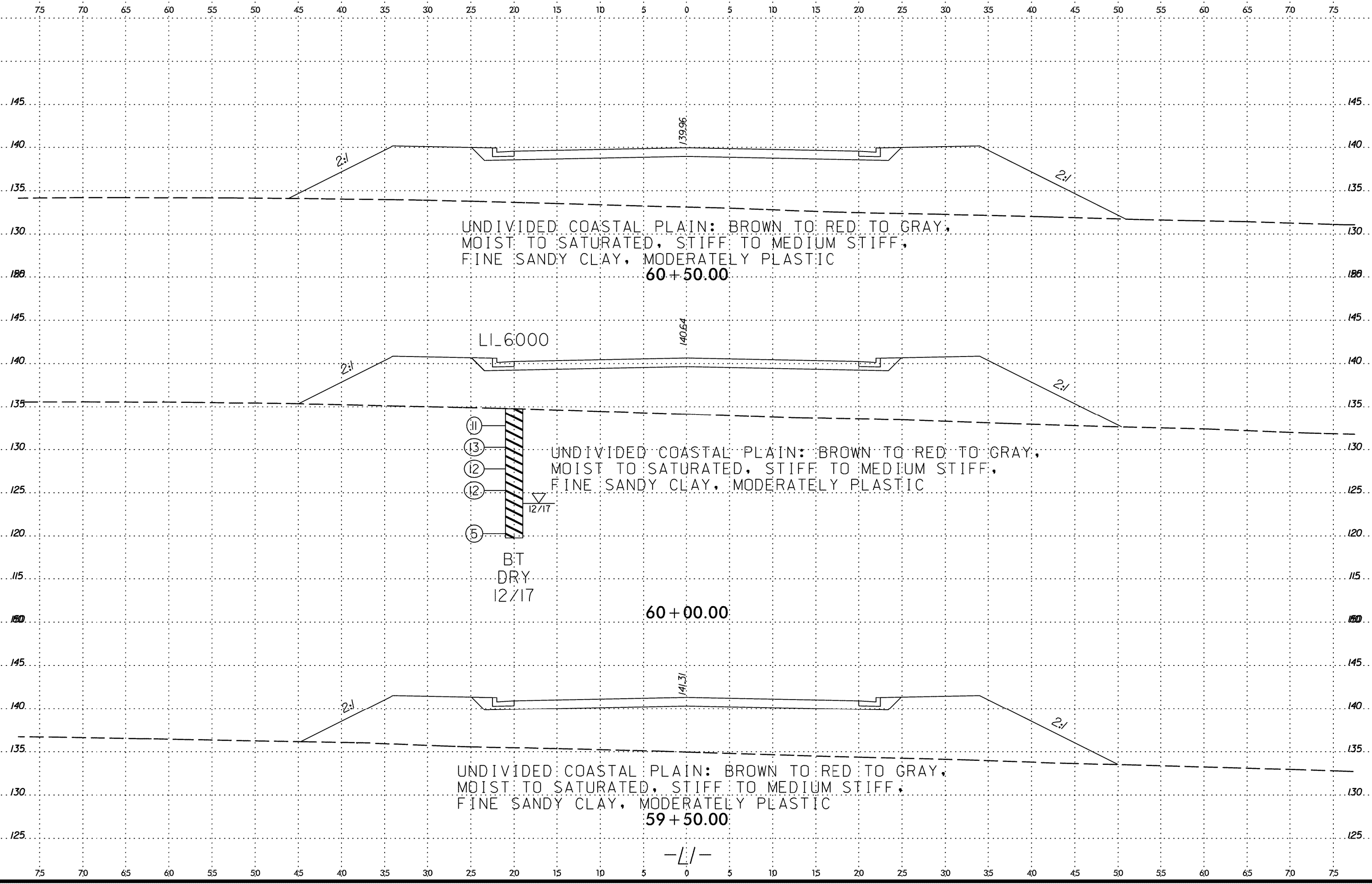
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SYSTEM TIME *****

USER NAME *****

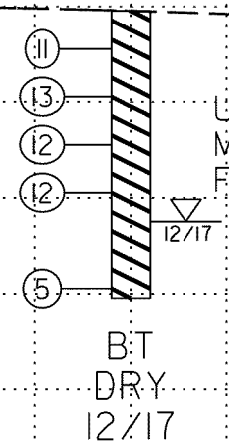
-L/-



UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY,
 MOIST TO SATURATED, STIFF TO MEDIUM STIFF,
 FINE SANDY CLAY, MODERATELY PLASTIC
 60+50.00

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY,
 MOIST TO SATURATED, STIFF TO MEDIUM STIFF,
 FINE SANDY CLAY, MODERATELY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO RED TO GRAY,
 MOIST TO SATURATED, STIFF TO MEDIUM STIFF,
 FINE SANDY CLAY, MODERATELY PLASTIC
 59+50.00

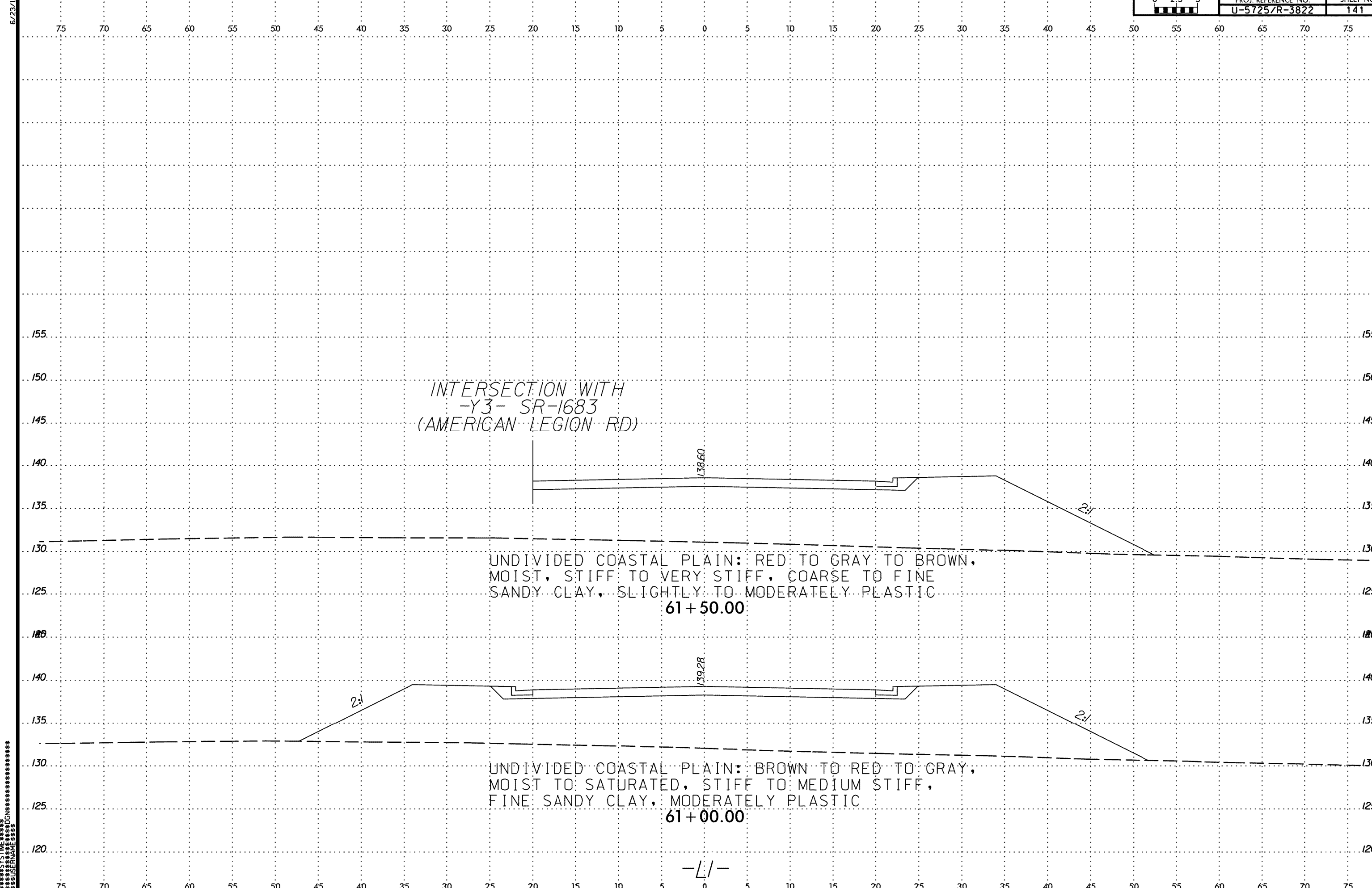


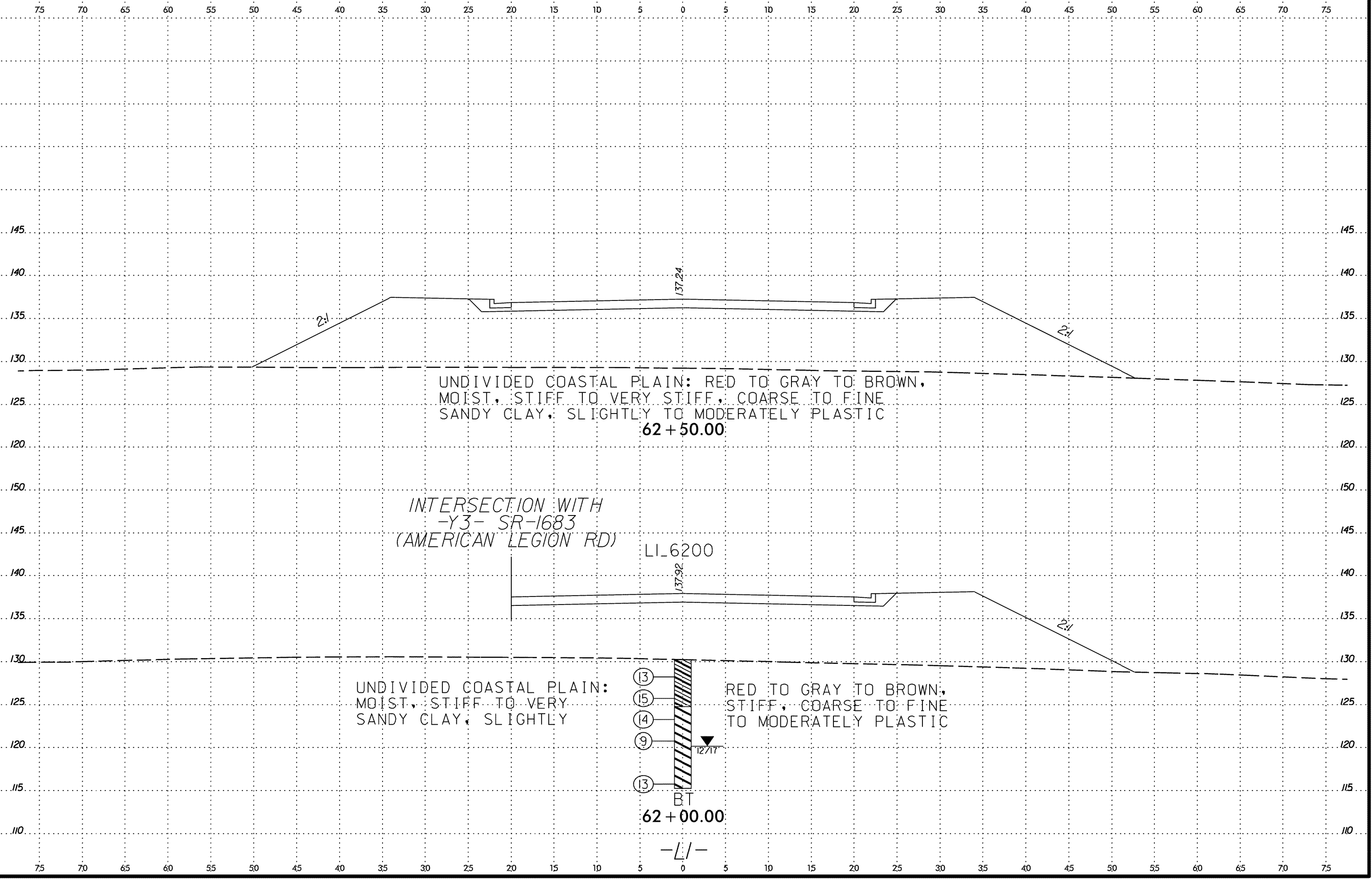
LI_6:000

60+00.00

-1/-

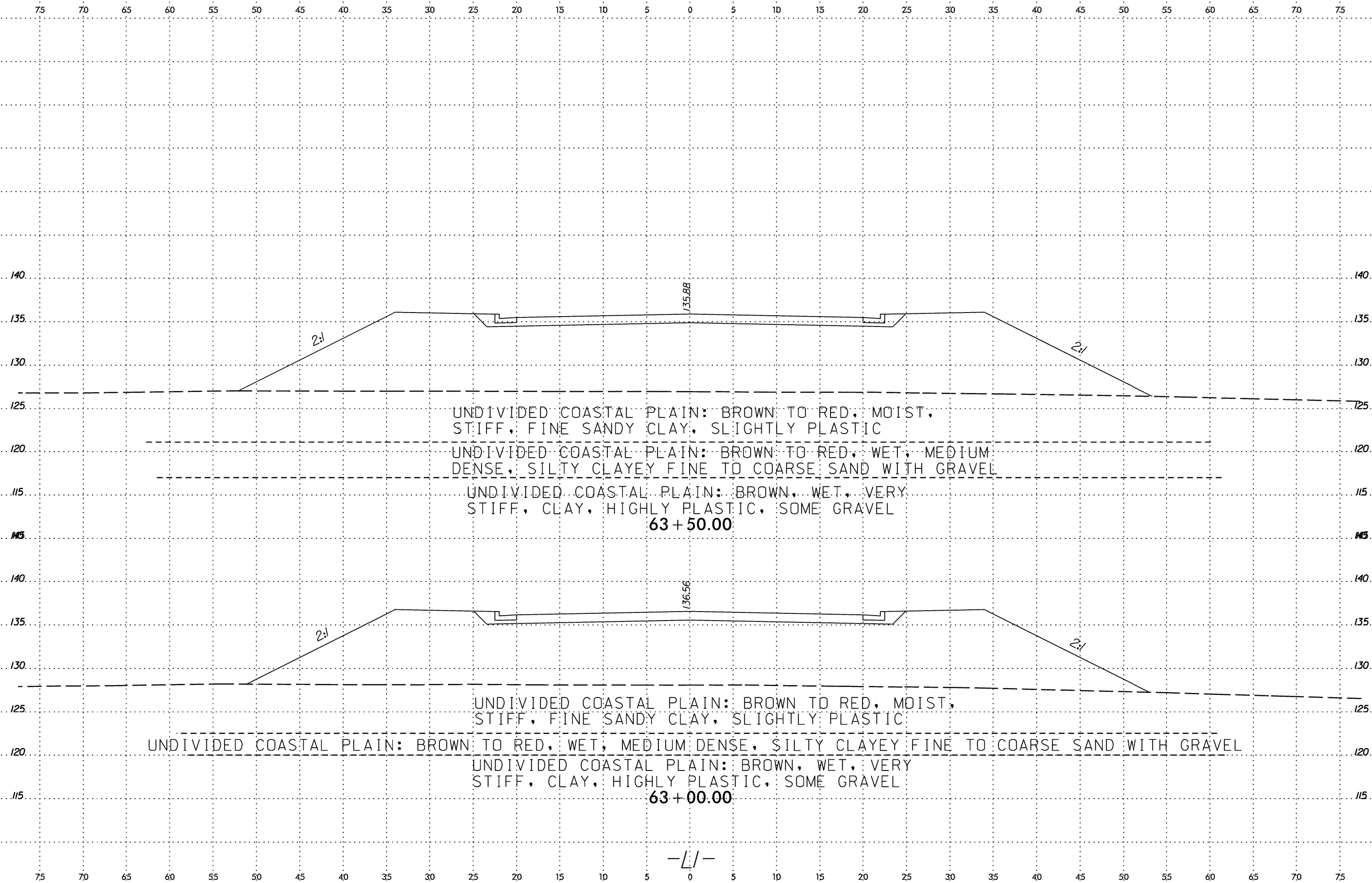
SYSTEM TIME
 USER NAME





 SYSTEM TIME *****

 USER *****



UNDIVIDED COASTAL PLAIN: BROWN TO RED, MOIST, STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO RED, WET, MEDIUM DENSE, SILTY CLAYEY FINE TO COARSE SAND WITH GRAVEL

UNDIVIDED COASTAL PLAIN: BROWN, WET, VERY STIFF, CLAY, HIGHLY PLASTIC, SOME GRAVEL

63+50.00

UNDIVIDED COASTAL PLAIN: BROWN TO RED, MOIST, STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

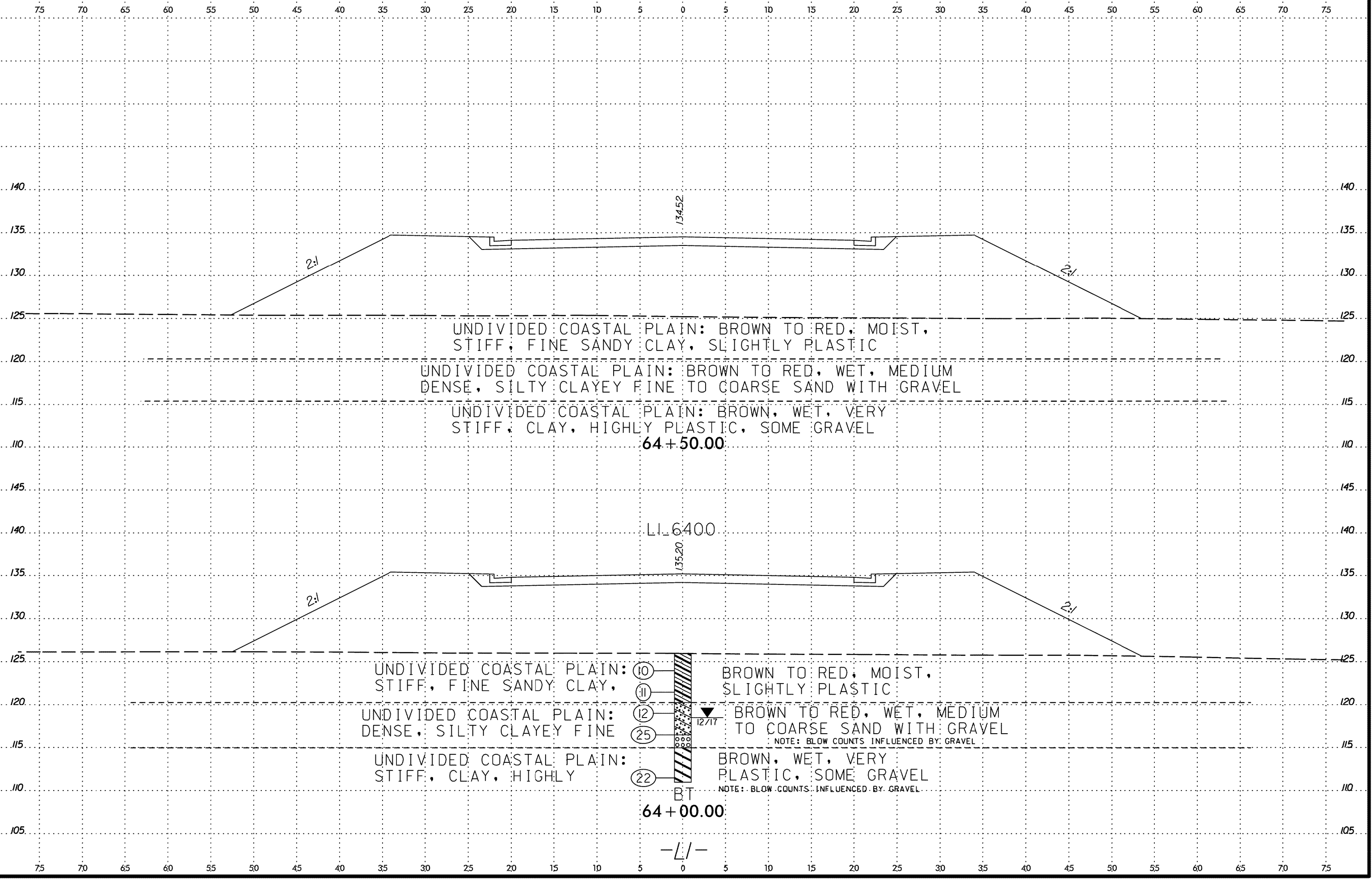
UNDIVIDED COASTAL PLAIN: BROWN TO RED, WET, MEDIUM DENSE, SILTY CLAYEY FINE TO COARSE SAND WITH GRAVEL

UNDIVIDED COASTAL PLAIN: BROWN, WET, VERY STIFF, CLAY, HIGHLY PLASTIC, SOME GRAVEL

63+00.00

-1/-

6/23/16
SYSTEMS
SUBNAME



UNDIVIDED COASTAL PLAIN: BROWN TO RED, MOIST,
STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN TO RED, WET, MEDIUM
DENSE, SILTY CLAYEY FINE TO COARSE SAND WITH GRAVEL

UNDIVIDED COASTAL PLAIN: BROWN, WET, VERY
STIFF, CLAY, HIGHLY PLASTIC, SOME GRAVEL

UNDIVIDED COASTAL PLAIN: ⑩ BROWN TO RED, MOIST,
STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: ⑪

UNDIVIDED COASTAL PLAIN: ⑫ BROWN TO RED, WET, MEDIUM
DENSE, SILTY CLAYEY FINE TO COARSE SAND WITH GRAVEL
NOTE: BLOW COUNTS INFLUENCED BY GRAVEL

UNDIVIDED COASTAL PLAIN: ②⑤

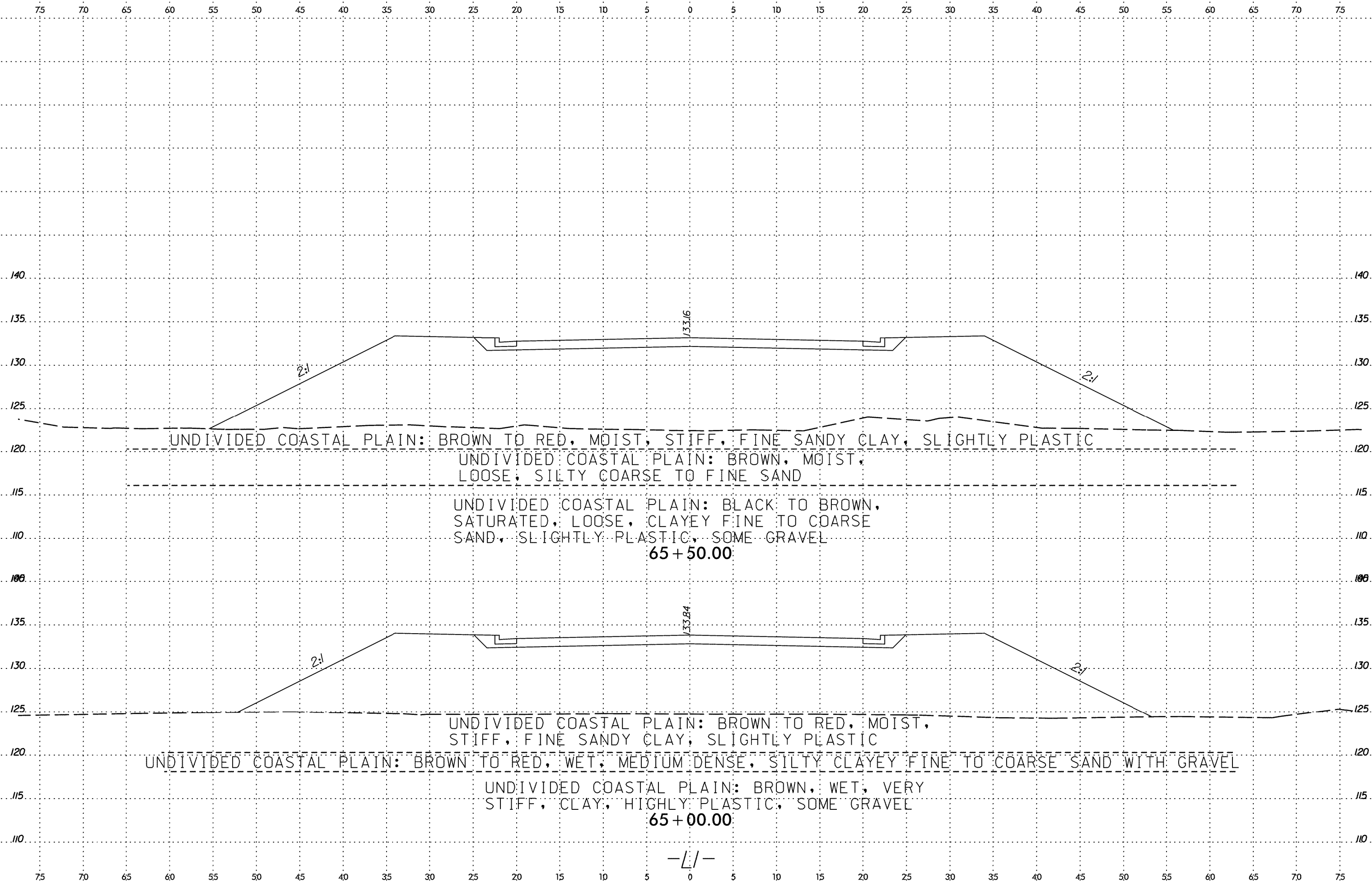
UNDIVIDED COASTAL PLAIN: ②② BROWN, WET, VERY
STIFF, CLAY, HIGHLY PLASTIC, SOME GRAVEL
NOTE: BLOW COUNTS INFLUENCED BY GRAVEL

BT

64 + 00.00

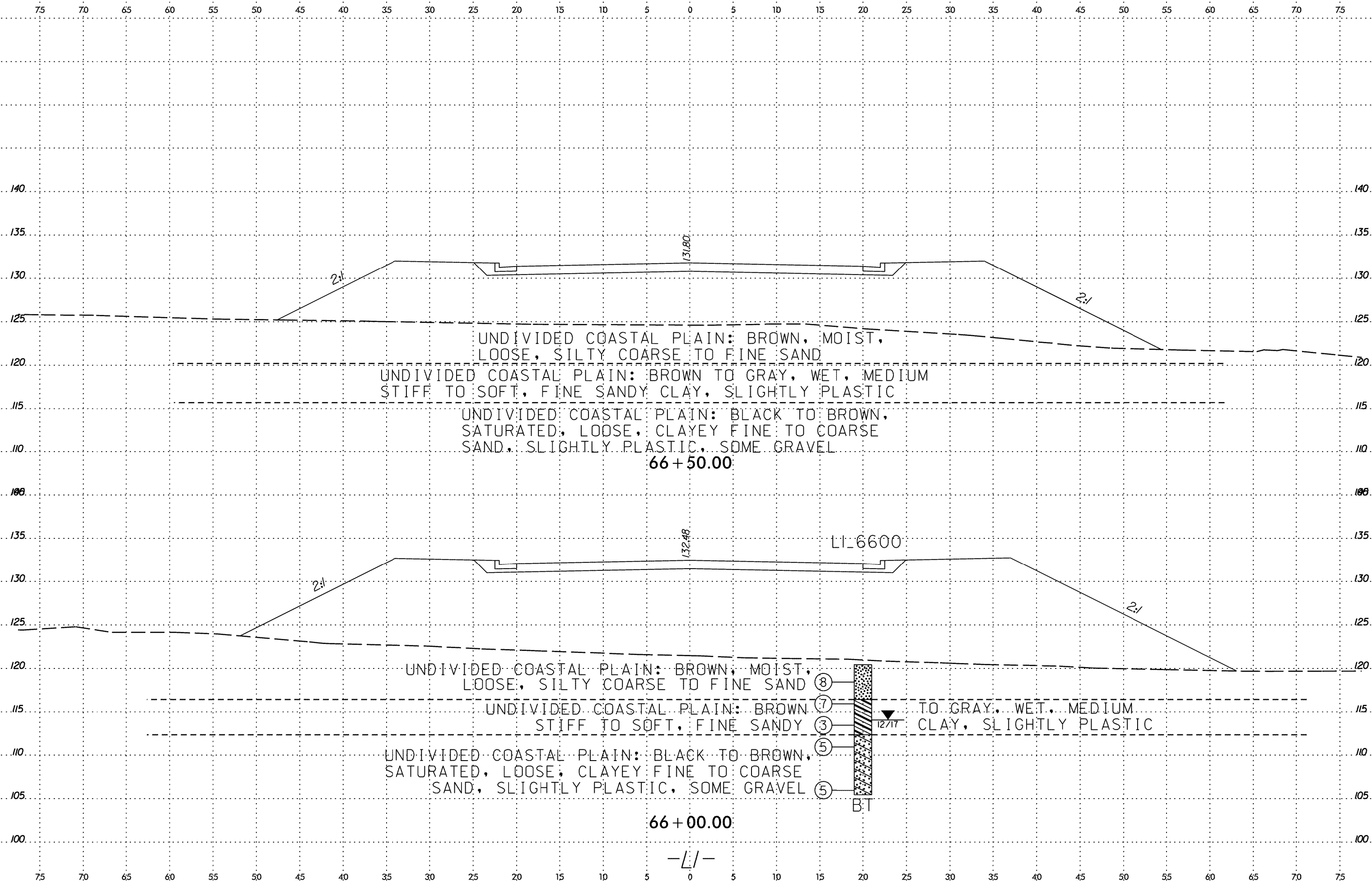
-L/-

SYSTEM TIME
 USER NAME
 USER NAME

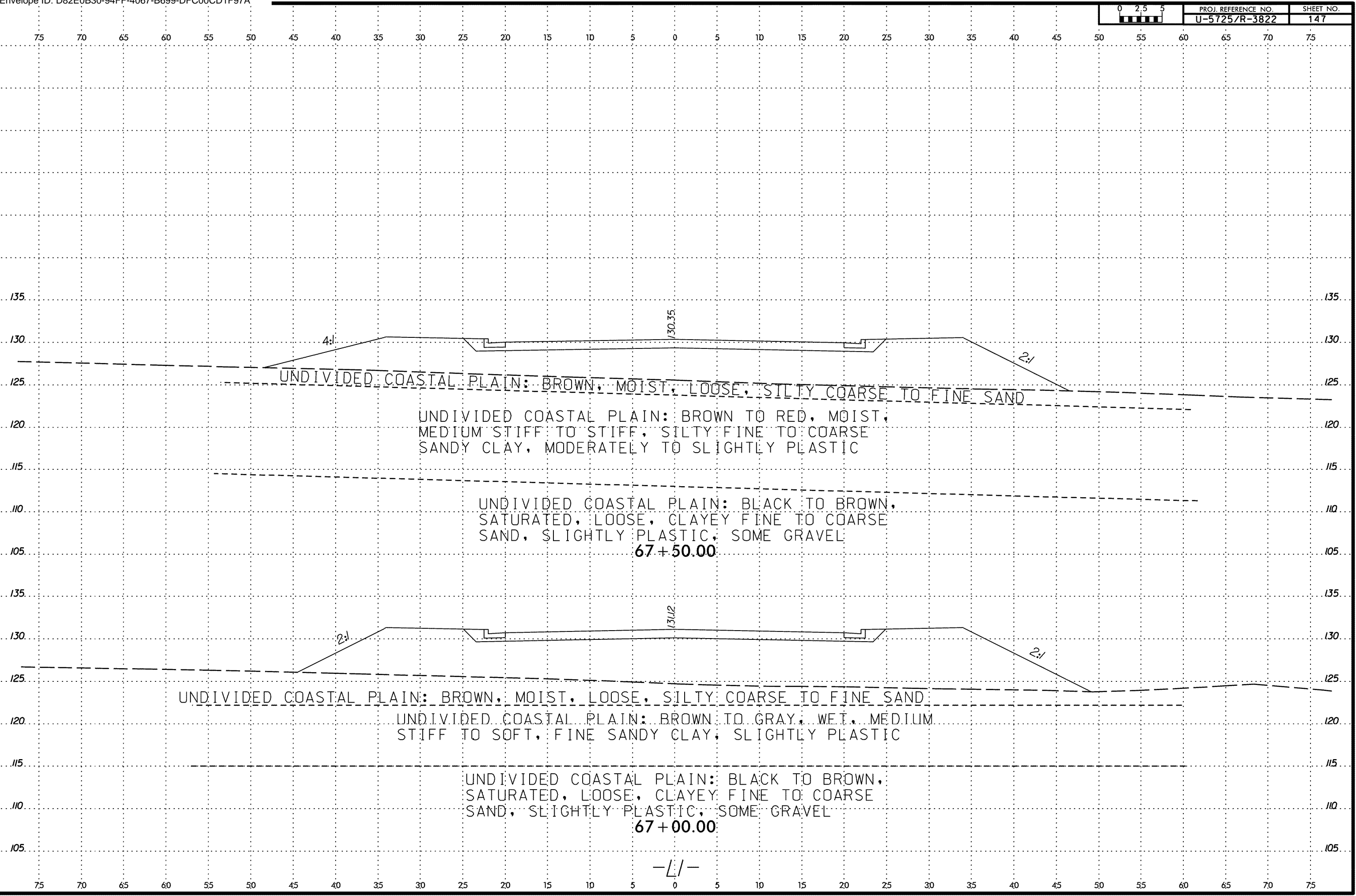


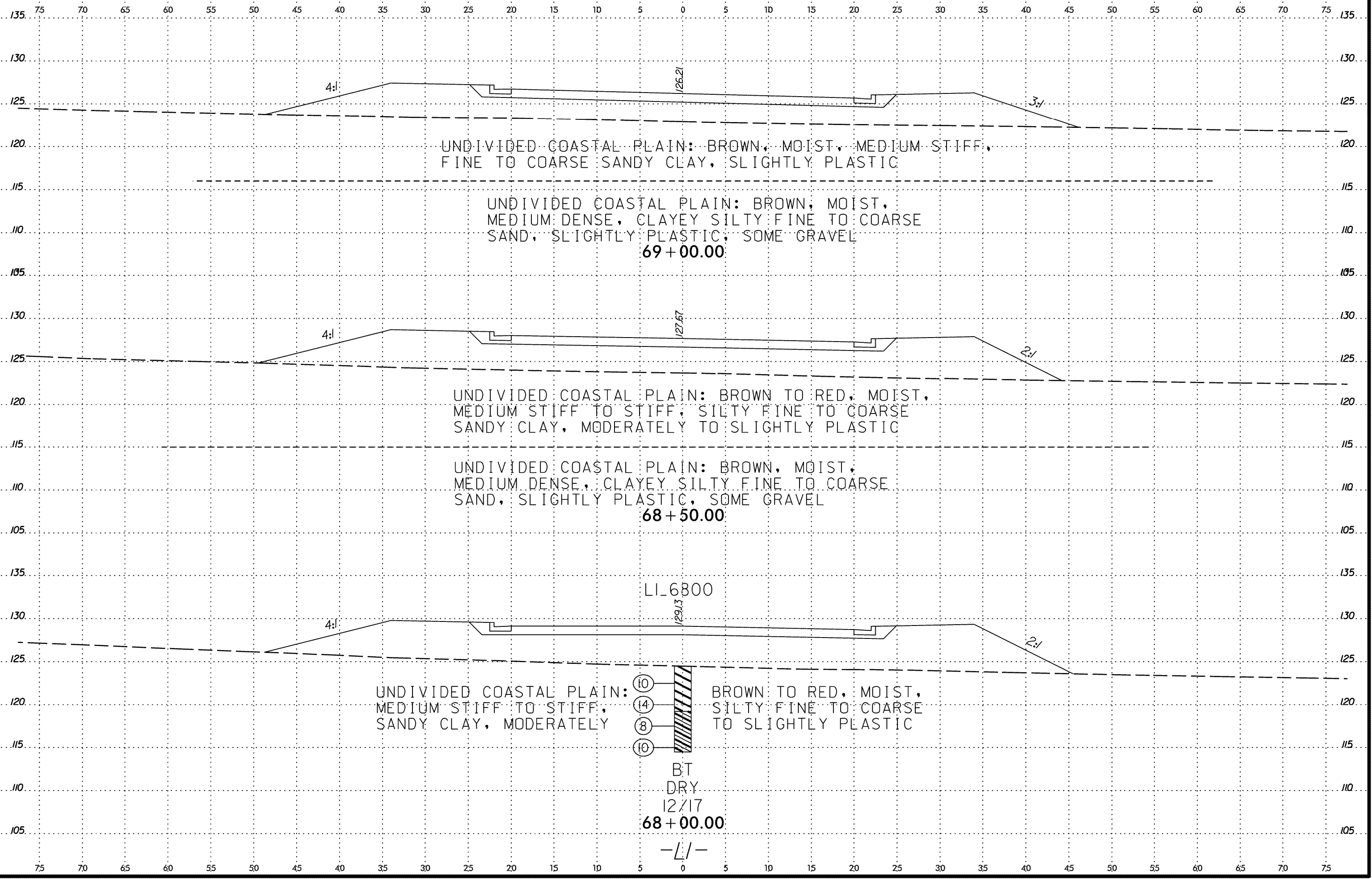
SYSTEM TIME
 USER NAME

-1/-



6/23/16
SYSTEM
SECTION
SUBNAME

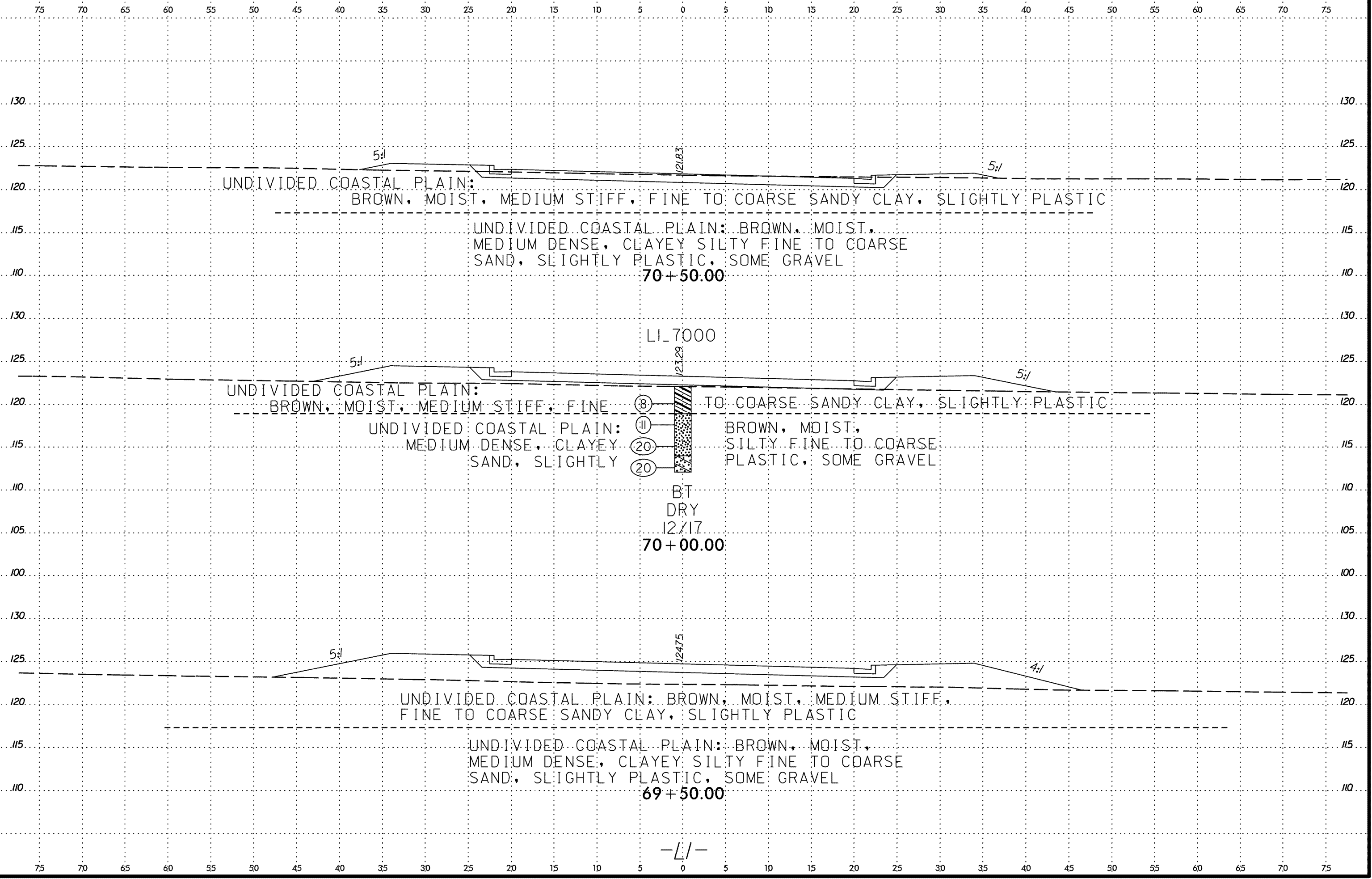




6/23/16

 SYSTEM TIME *****

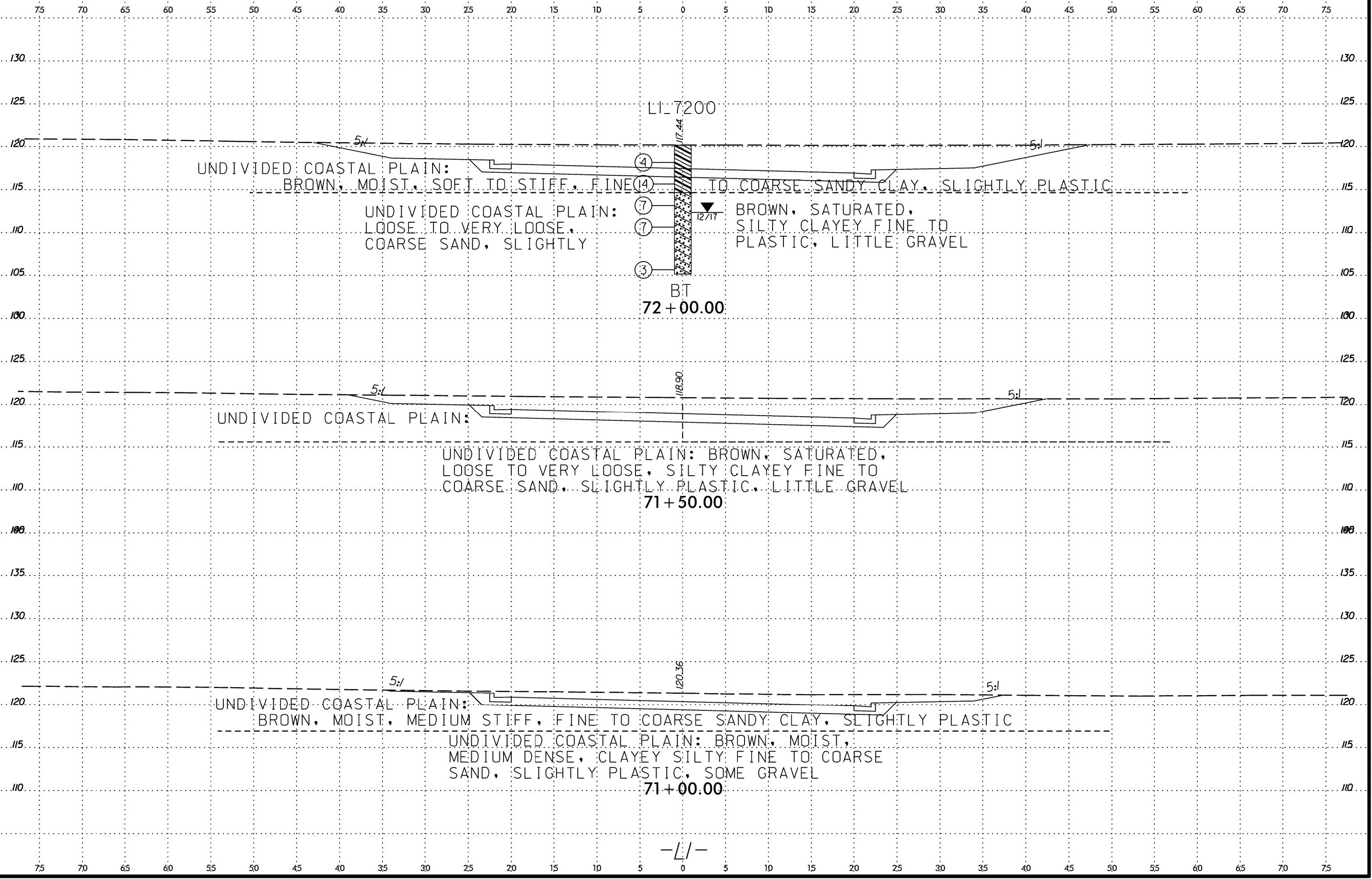
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6/23/16

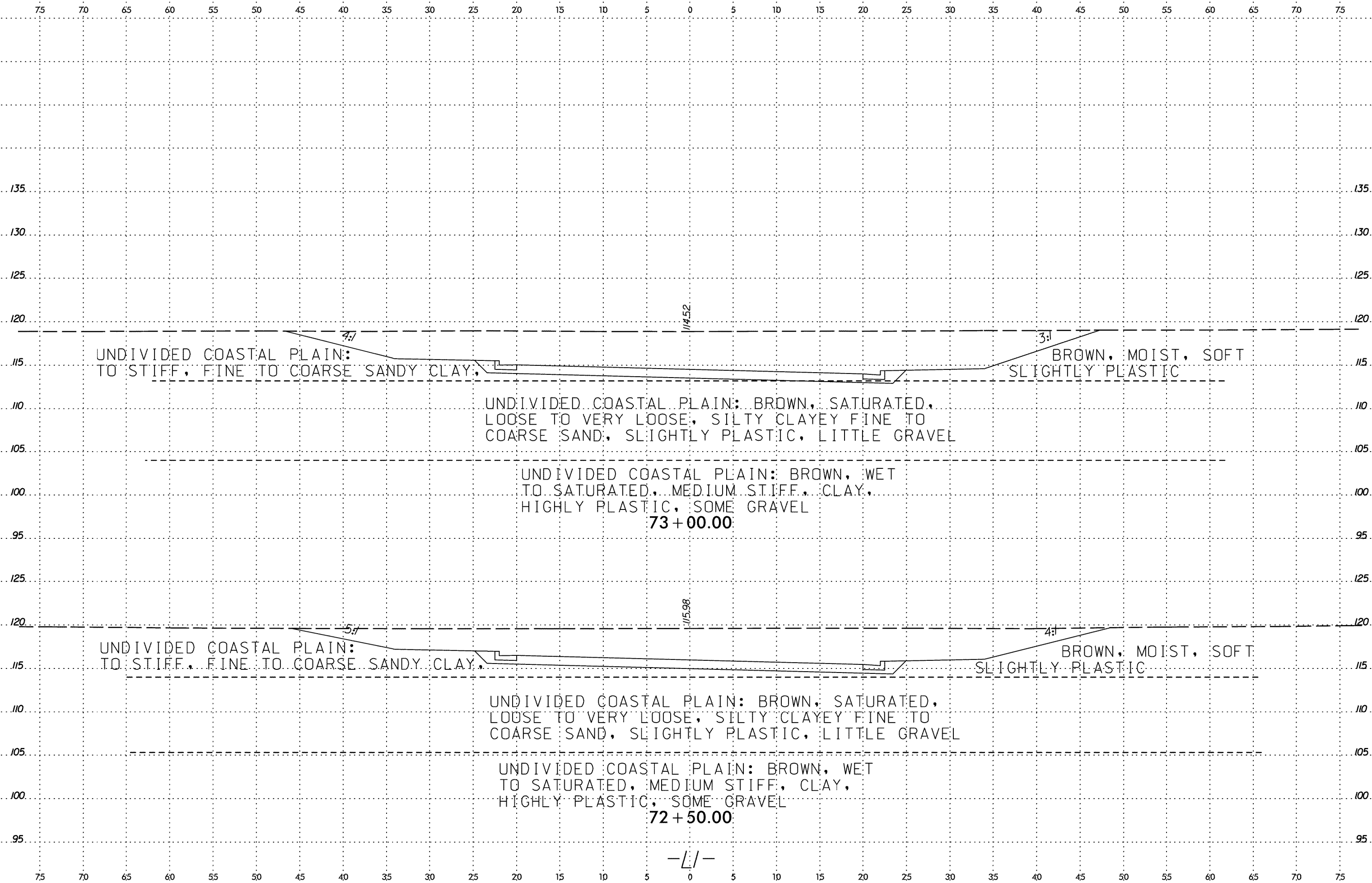
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 USER NAME *****



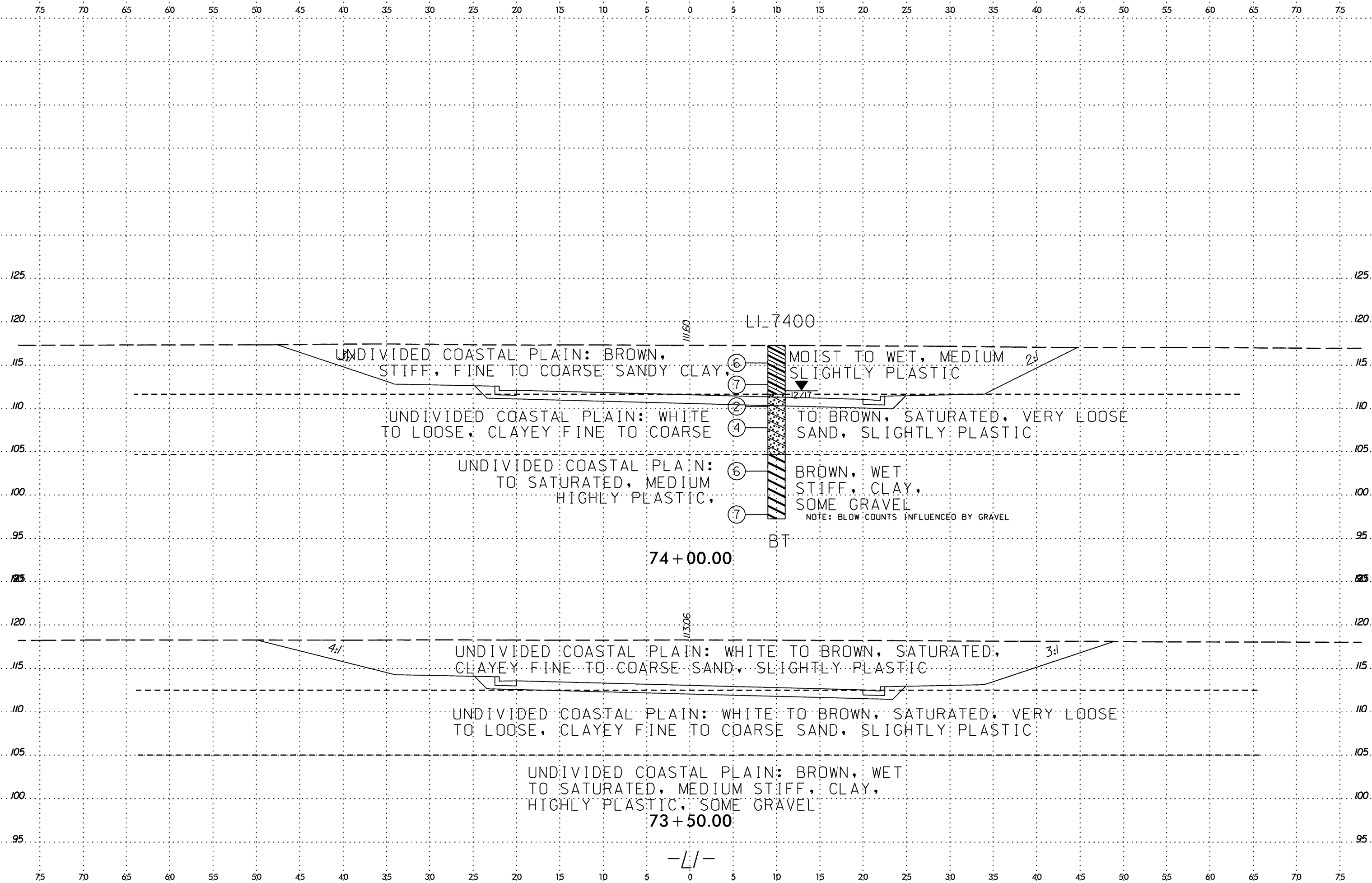
-1/-

SYSTEM TIME
DATE
SUBJECT

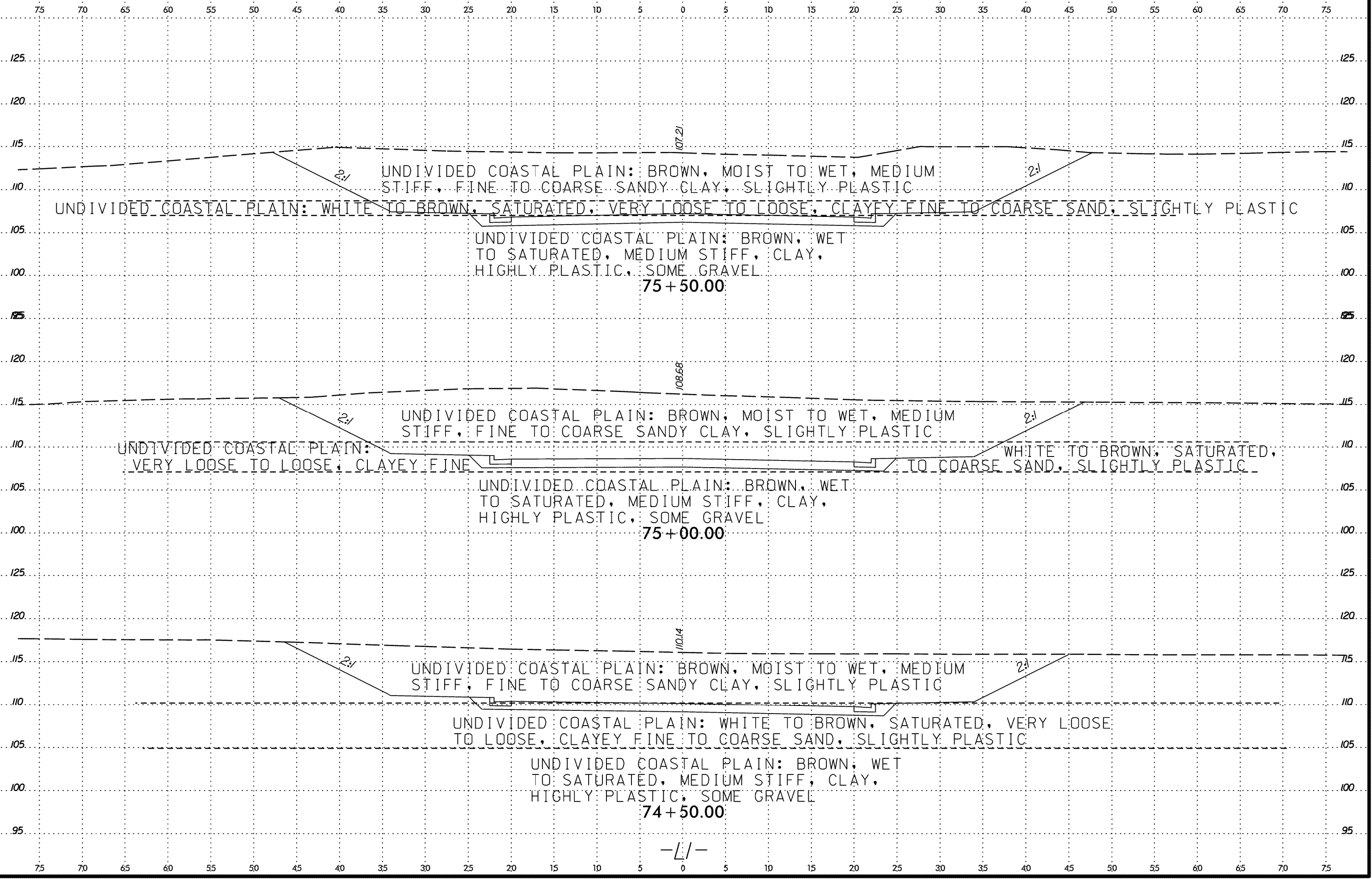


SYSTEM TIME
SUBMISSION
SUBSERIAL

-1/-



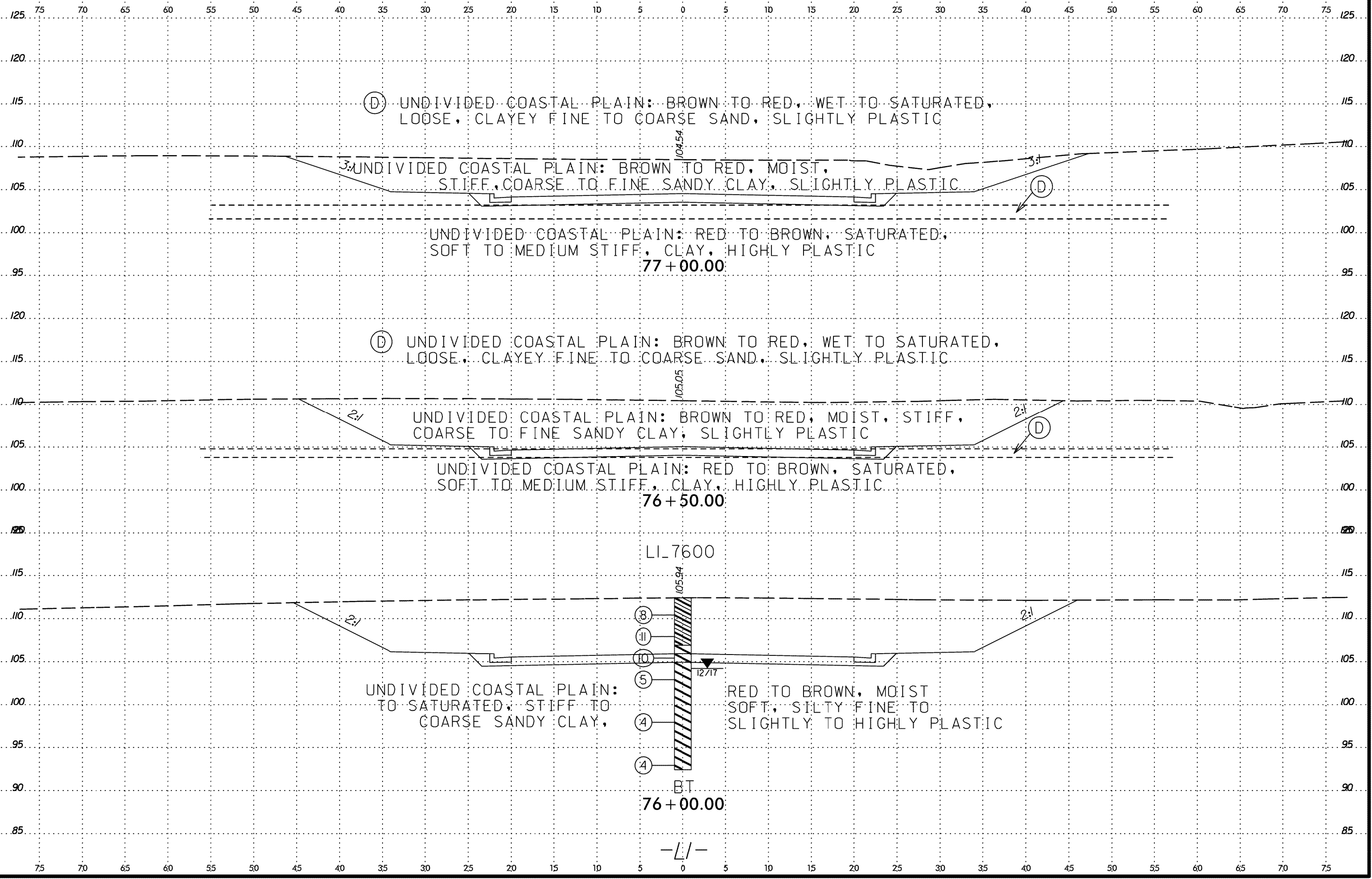
SYSTEM TIME
LOCATION
USER NAME



6/23/16

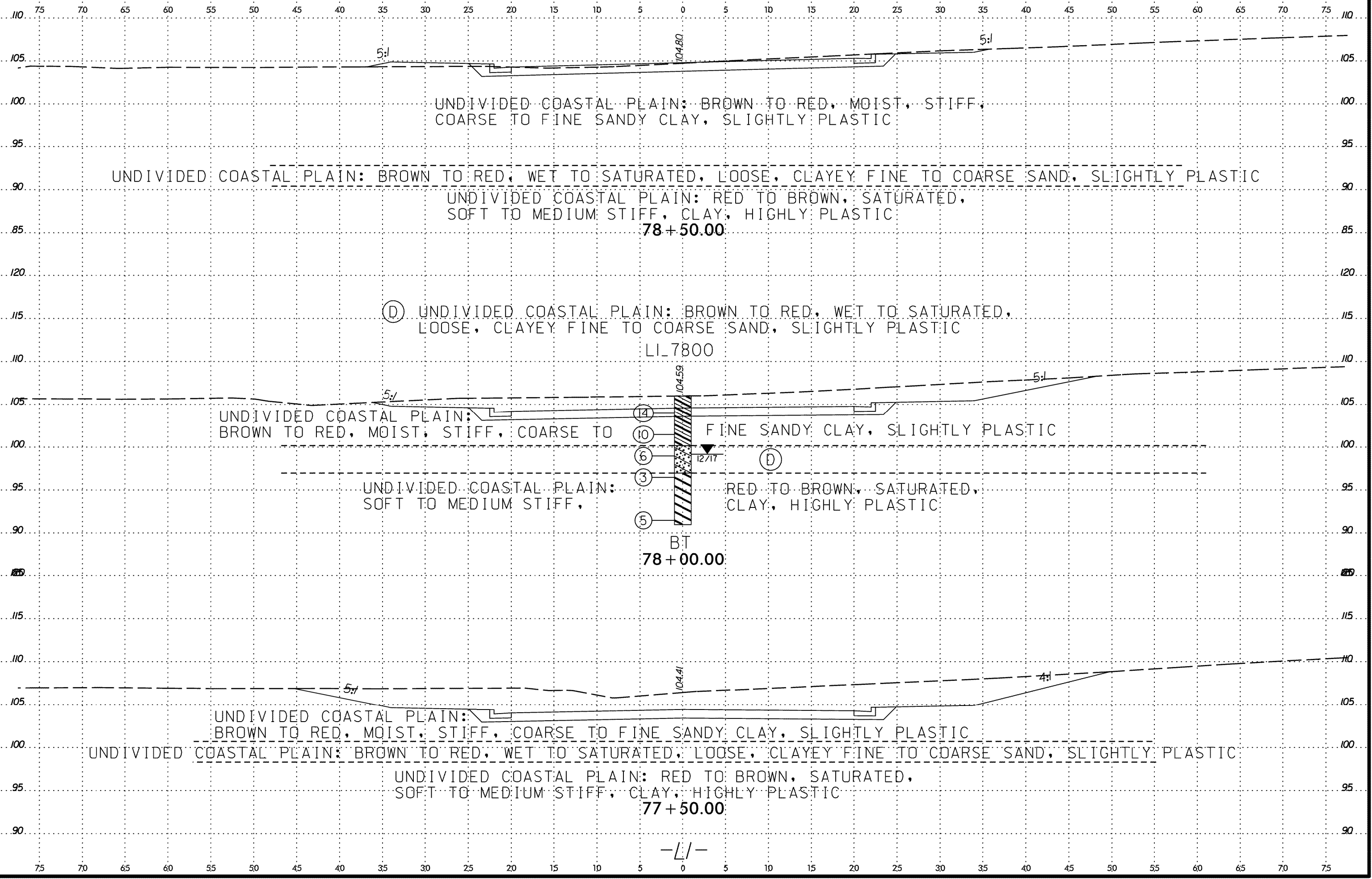
 SYSTEM TIME *****

 USER *****



 SYSTEM TIME *****

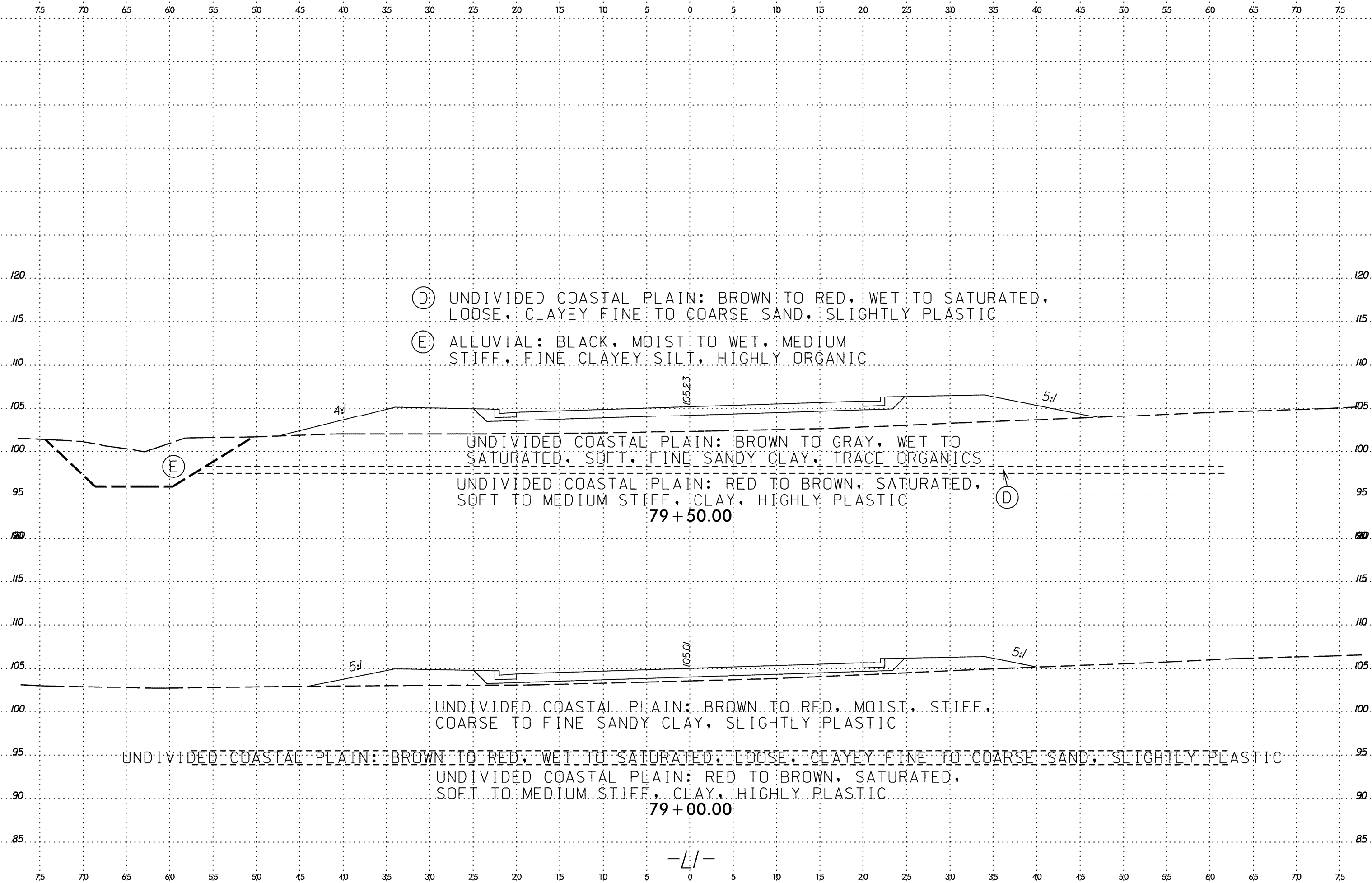
 USER NAME *****



6/23/16

 SYSTEM TIME *****

 USER NAME *****



(D) UNDIVIDED COASTAL PLAIN: BROWN TO RED, WET TO SATURATED, LOOSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC

(E) ALLUVIAL: BLACK, MOIST TO WET, MEDIUM STIFF, FINE CLAYEY SILT, HIGHLY ORGANIC

UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, WET TO SATURATED, SOFT, FINE SANDY CLAY, TRACE ORGANICS

UNDIVIDED COASTAL PLAIN: RED TO BROWN, SATURATED, SOFT TO MEDIUM STIFF, CLAY, HIGHLY PLASTIC

79+50.00

UNDIVIDED COASTAL PLAIN: BROWN TO RED, MOIST, STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

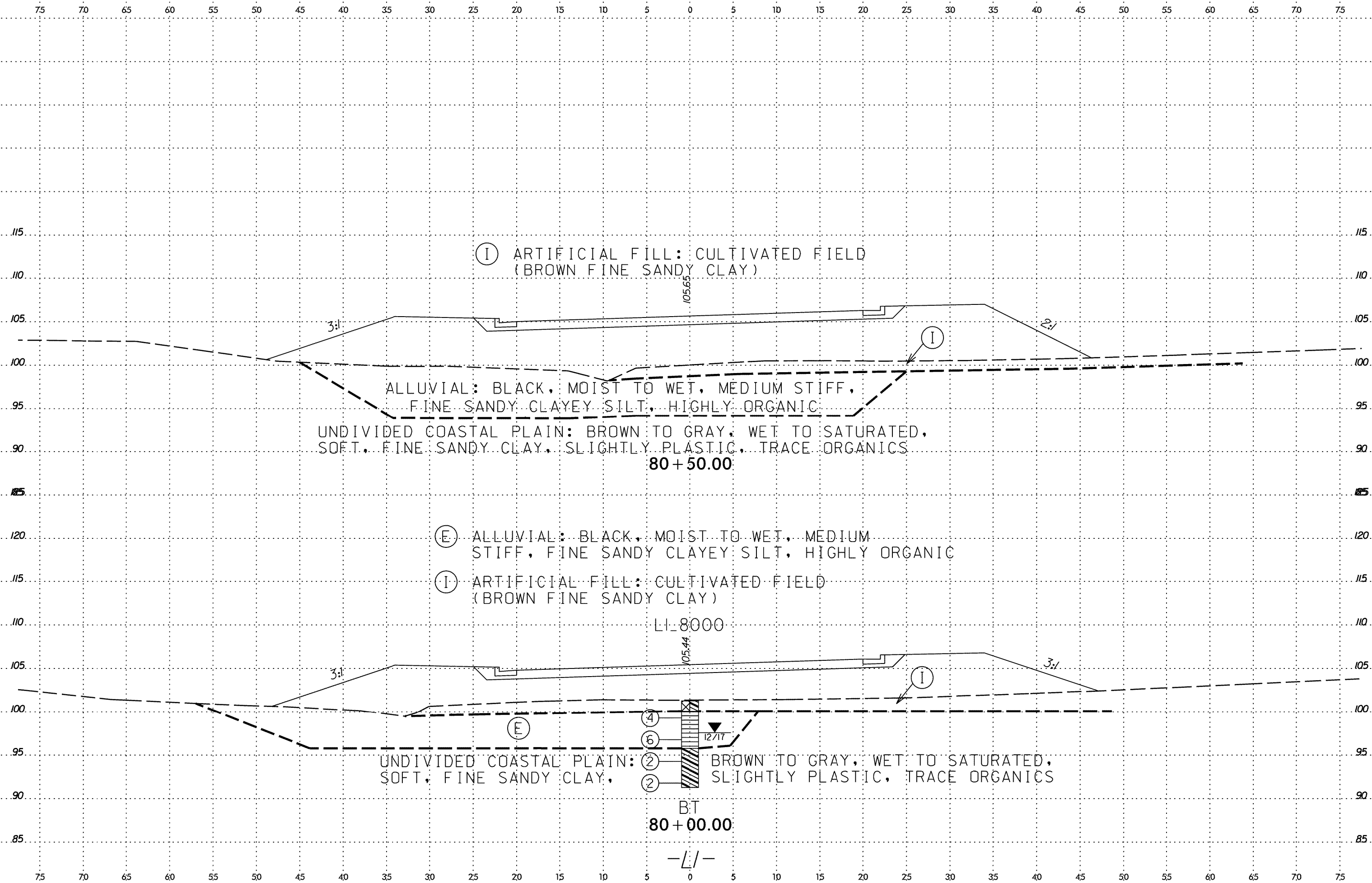
UNDIVIDED COASTAL PLAIN: BROWN TO RED, WET TO SATURATED, LOOSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: RED TO BROWN, SATURATED, SOFT TO MEDIUM STIFF, CLAY, HIGHLY PLASTIC

79+00.00

-1/-

SYSTEM TIME
 USER NAME



ⓐ ARTIFICIAL FILL: CULTIVATED FIELD
(BROWN FINE SANDY CLAY)

ALLUVIAL: BLACK, MOIST TO WET, MEDIUM STIFF,
FINE SANDY CLAYEY SILT, HIGHLY ORGANIC

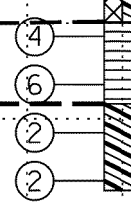
UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, WET TO SATURATED,
SOFT, FINE SANDY CLAY, SLIGHTLY PLASTIC, TRACE ORGANICS

80+50.00

ⓔ ALLUVIAL: BLACK, MOIST TO WET, MEDIUM
STIFF, FINE SANDY CLAYEY SILT, HIGHLY ORGANIC

ⓐ ARTIFICIAL FILL: CULTIVATED FIELD
(BROWN FINE SANDY CLAY)

UNDIVIDED COASTAL PLAIN: ⓔ BROWN TO GRAY, WET TO SATURATED,
SOFT, FINE SANDY CLAY, SLIGHTLY PLASTIC, TRACE ORGANICS



BT
80+00.00

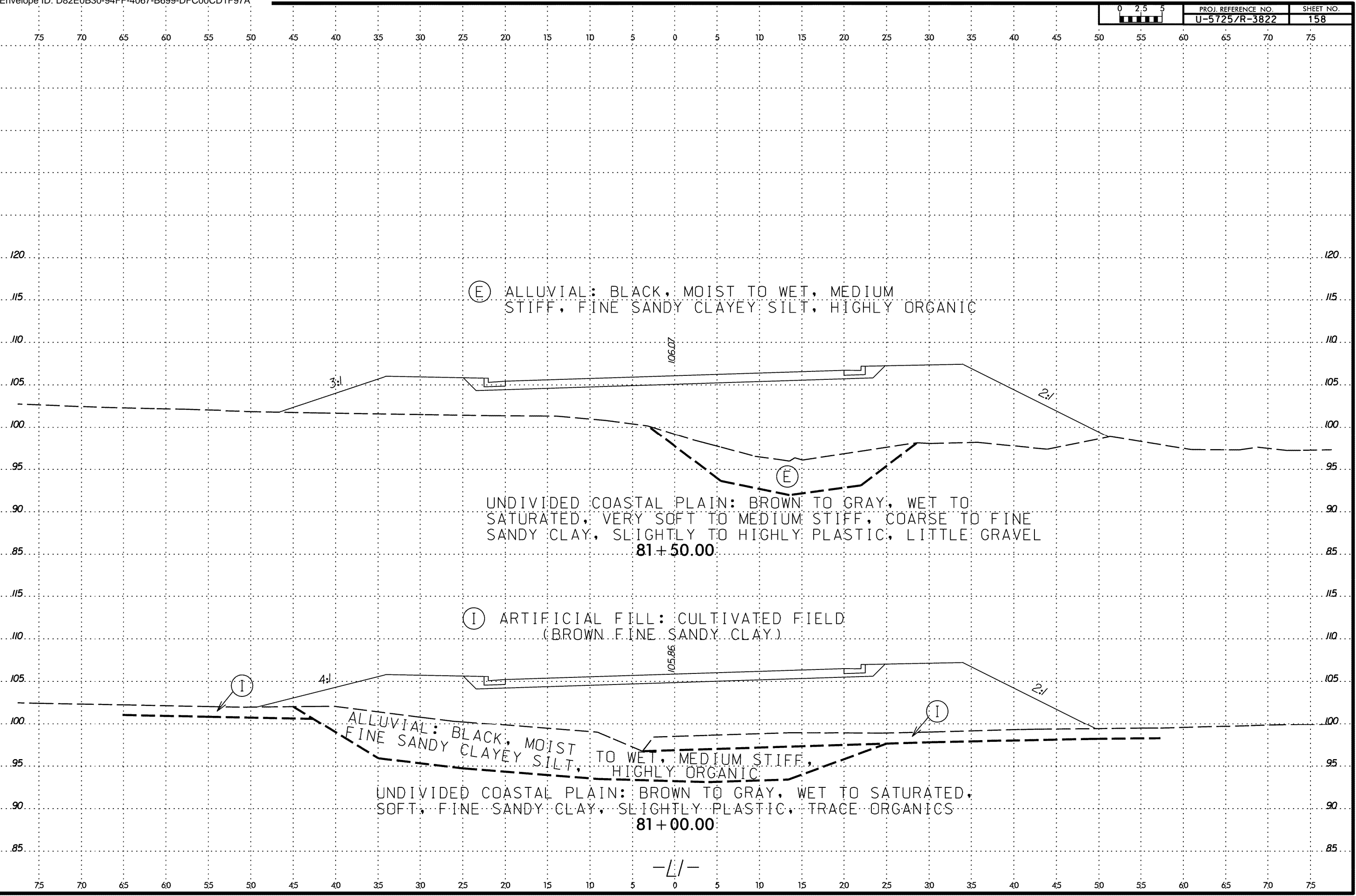
-1/-

6/23/16

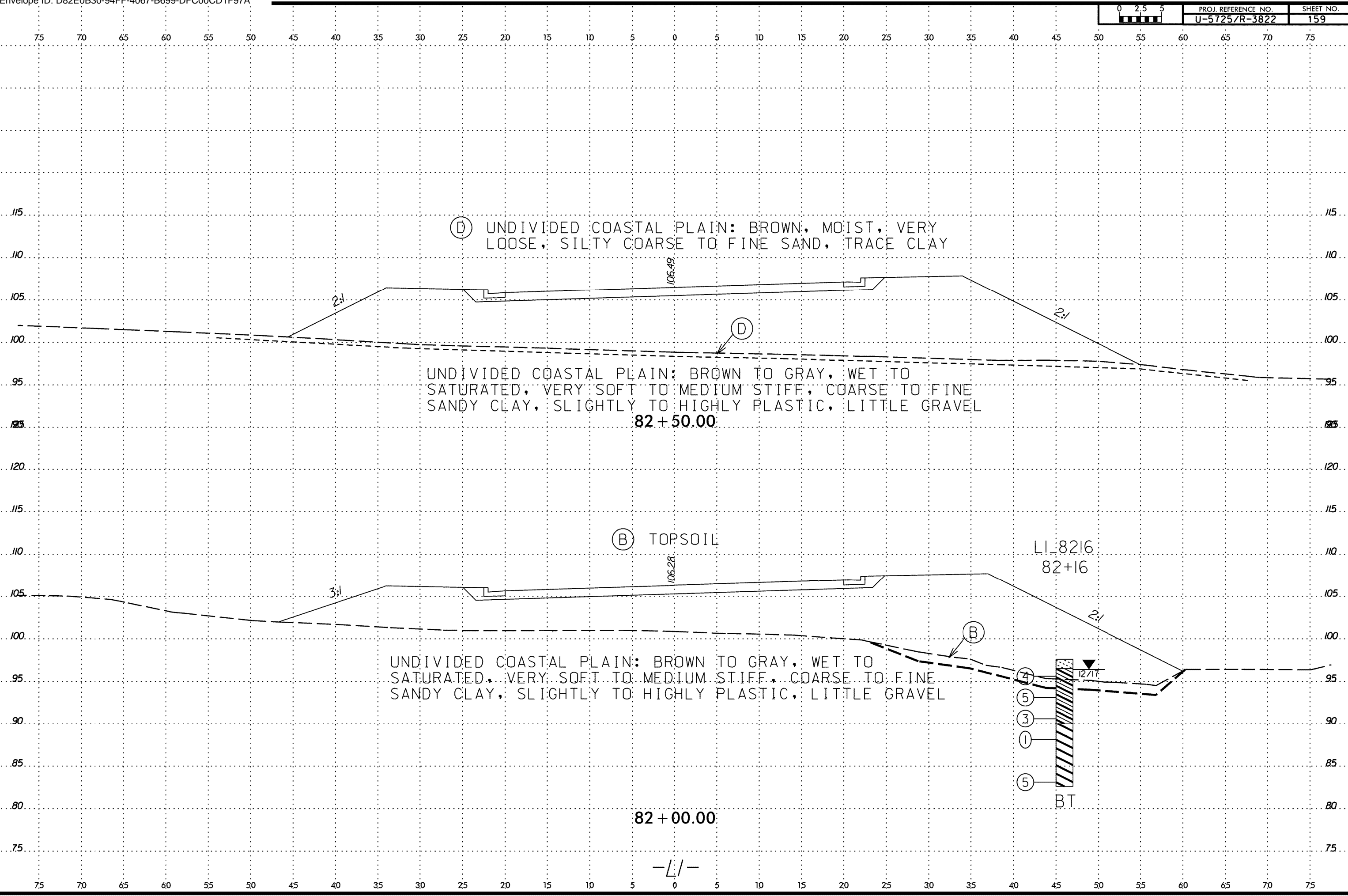
 SYSTEM TIME *****

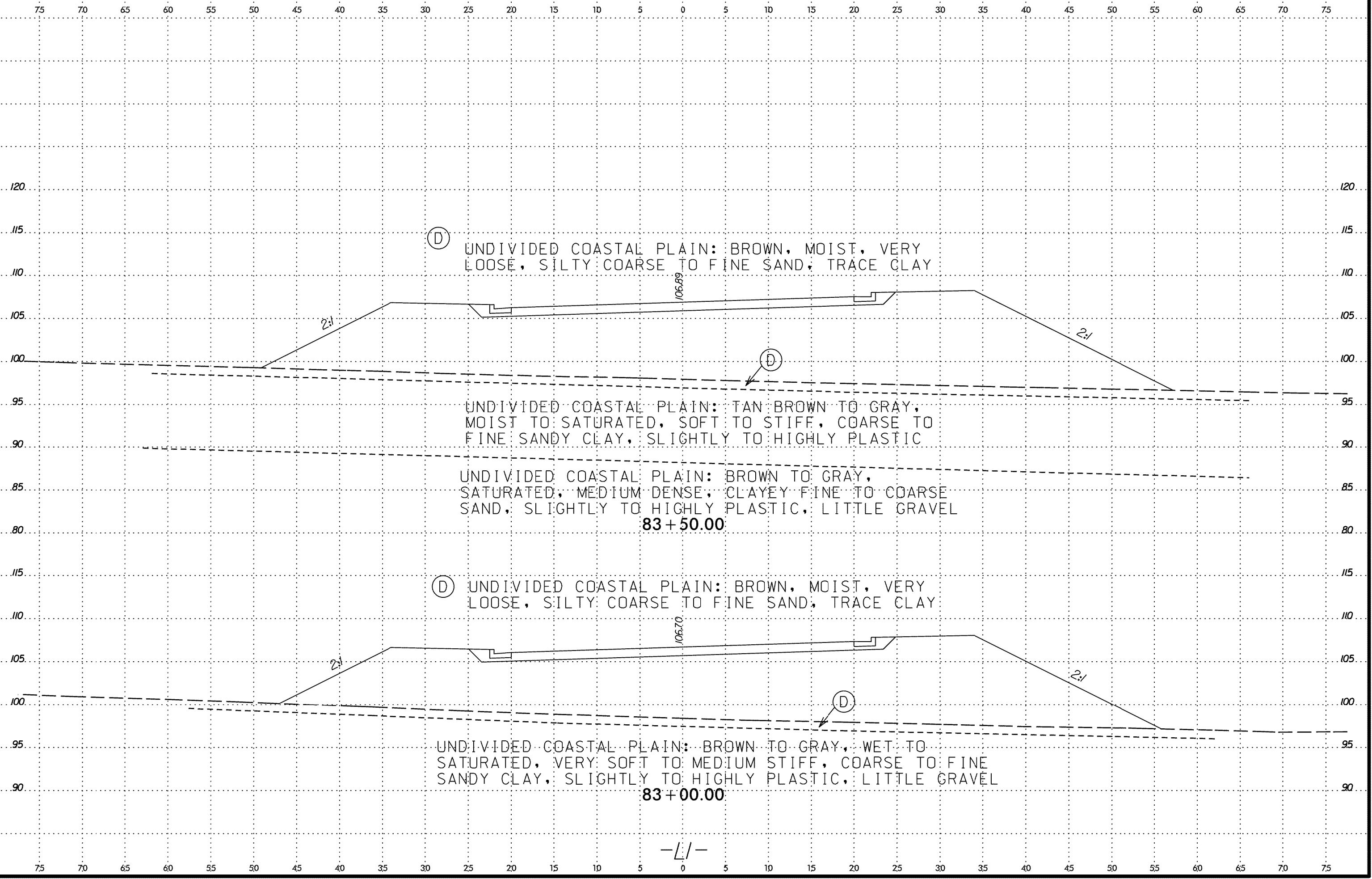
 USER NAME *****

6/23/16
SYSTEMS
SECTION
SUBNAME

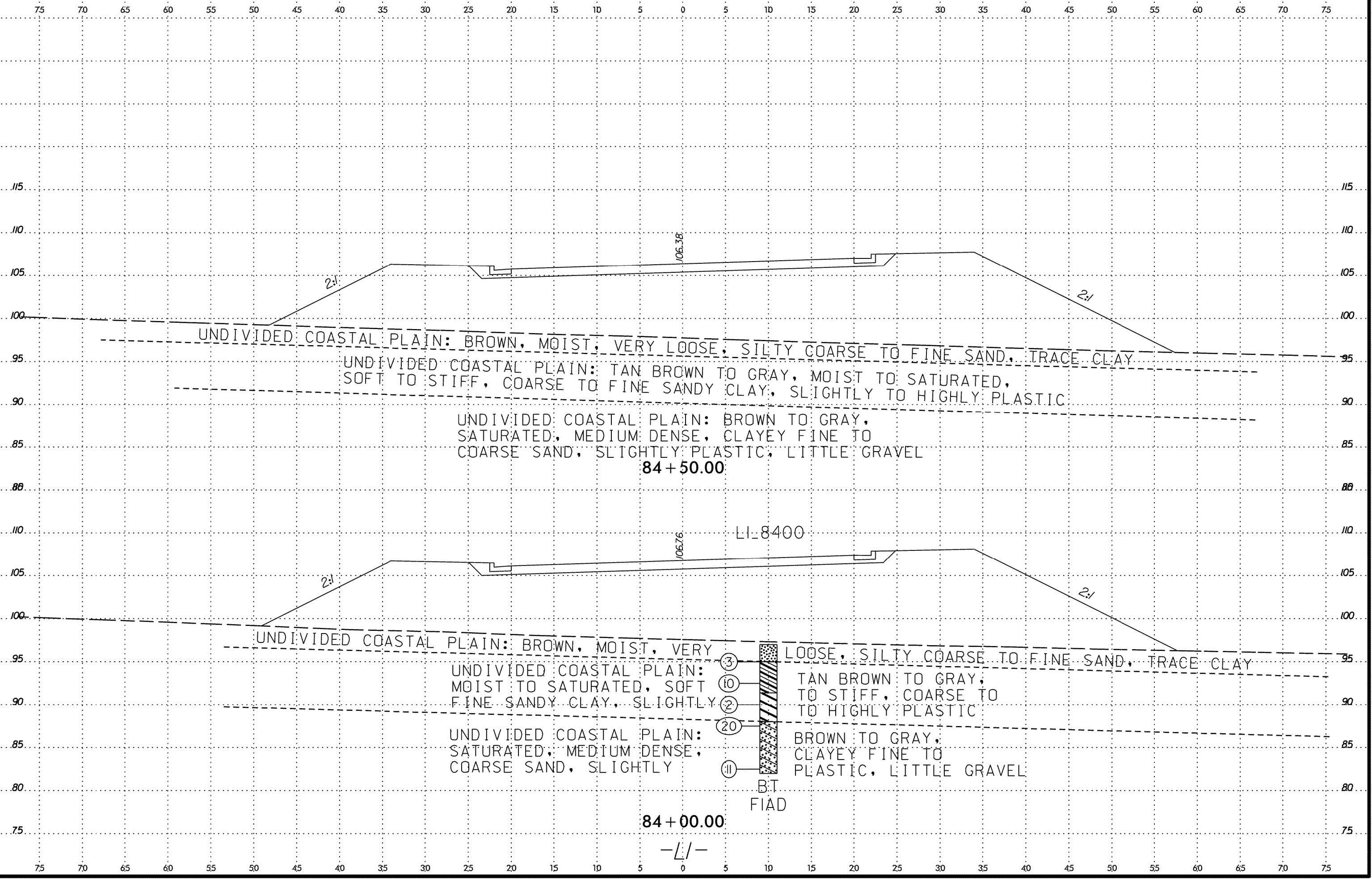


6/23/16
SYSTEM TIME
DATE
SUBUSER NAME





6/23/16
SYSTEM
SUBNAME



UNDIVIDED COASTAL PLAIN: BROWN, MOIST, VERY LOOSE, SILTY COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: TAN BROWN TO GRAY, MOIST TO SATURATED, SOFT TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

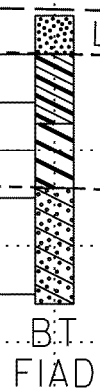
UNDIVIDED COASTAL PLAIN: BROWN TO GRAY, SATURATED, MEDIUM DENSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC, LITTLE GRAVEL
84 + 50.00

UNDIVIDED COASTAL PLAIN: BROWN, MOIST, VERY LOOSE, SILTY COARSE TO FINE SAND, TRACE CLAY

UNDIVIDED COASTAL PLAIN: MOIST TO SATURATED, SOFT TO STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: SATURATED, MEDIUM DENSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC, LITTLE GRAVEL

- ③
- ⑩
- ②
- ②⑩
- ⑪

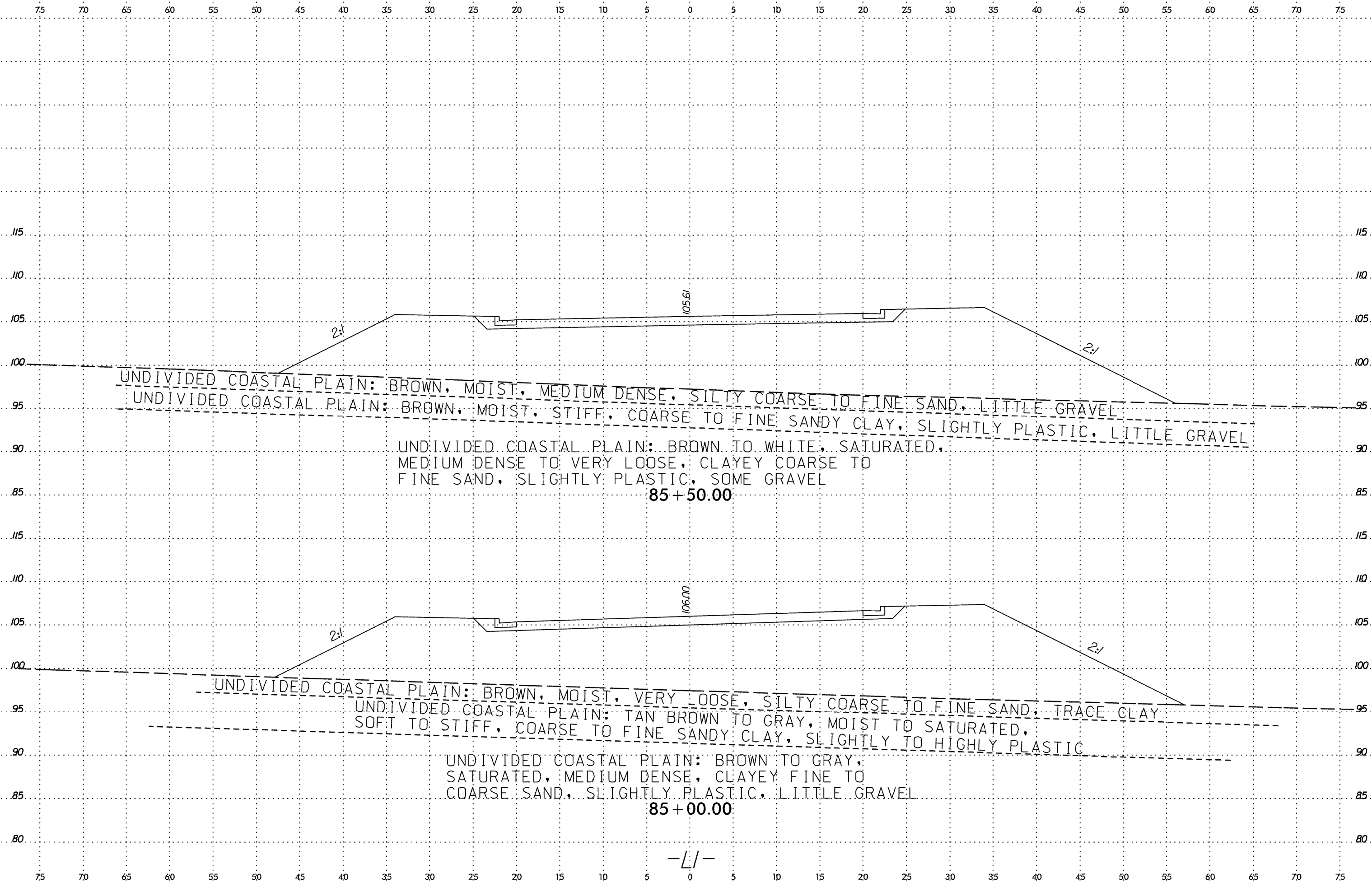


B.T
FIAD

84 + 00.00

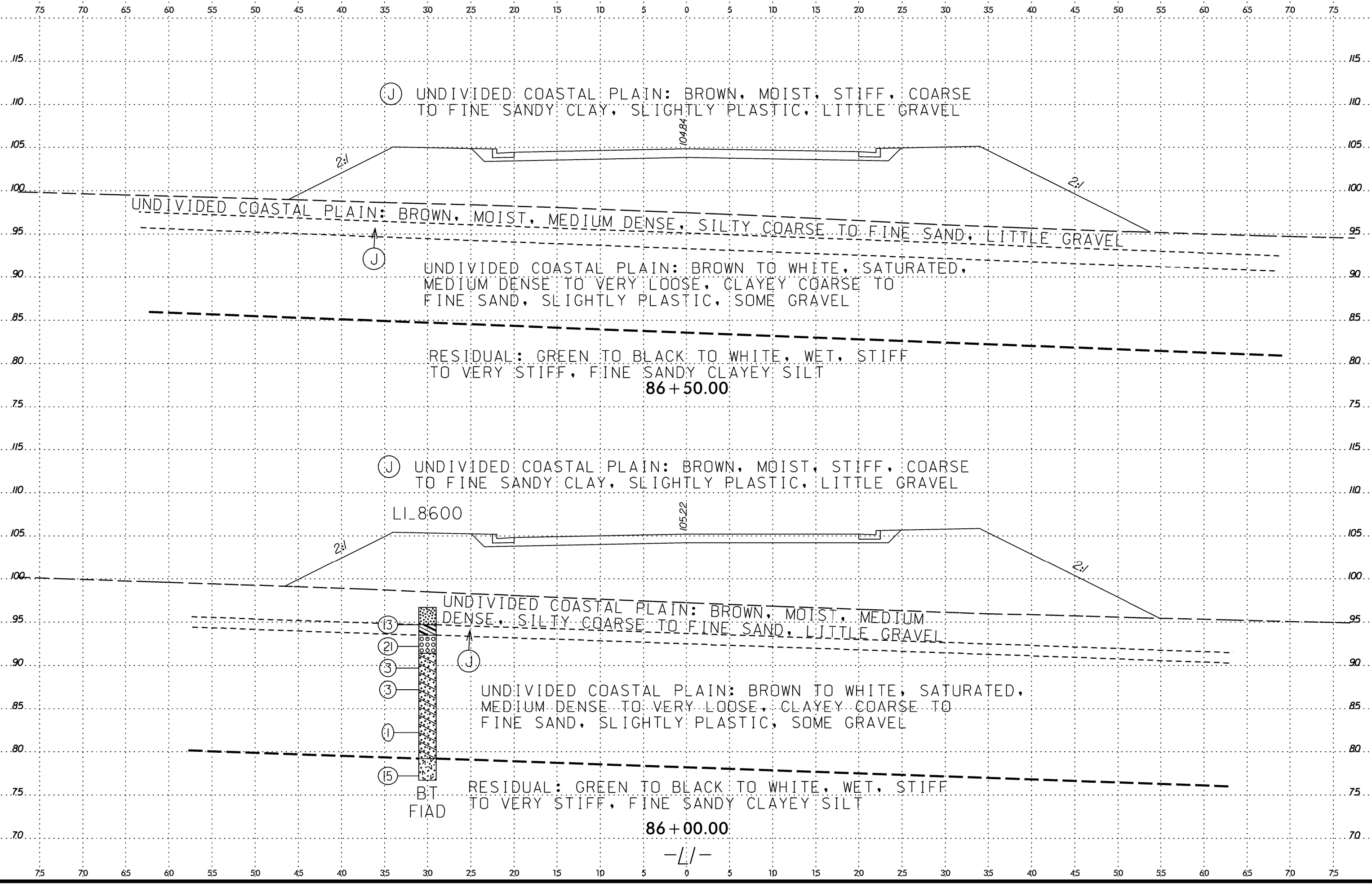
-L/-

SYSTEM TIME
DATE
USER NAME

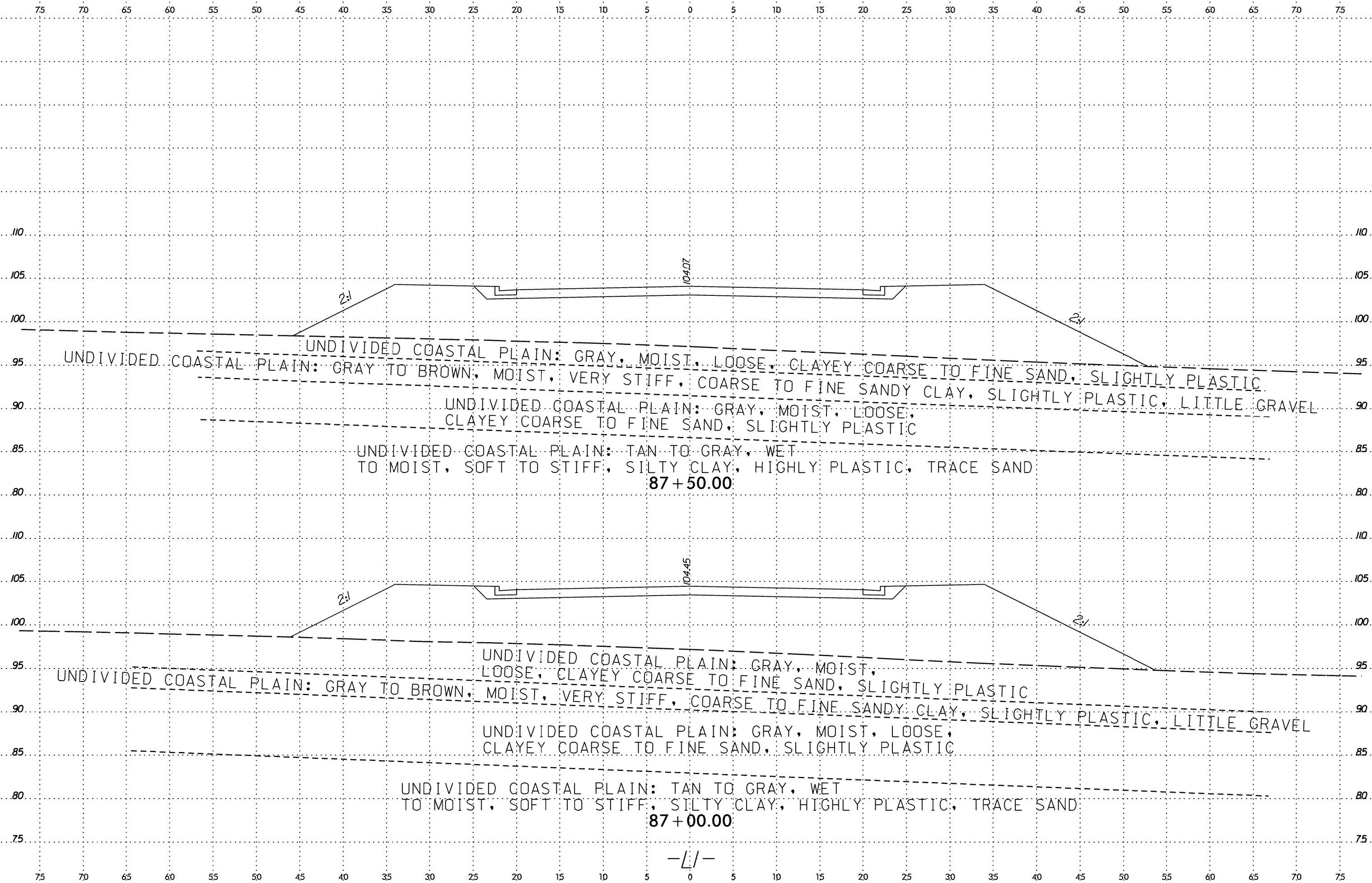


-1/-

6/23/16
SYSTEMS
OPERATIONS
SUBSERNAME

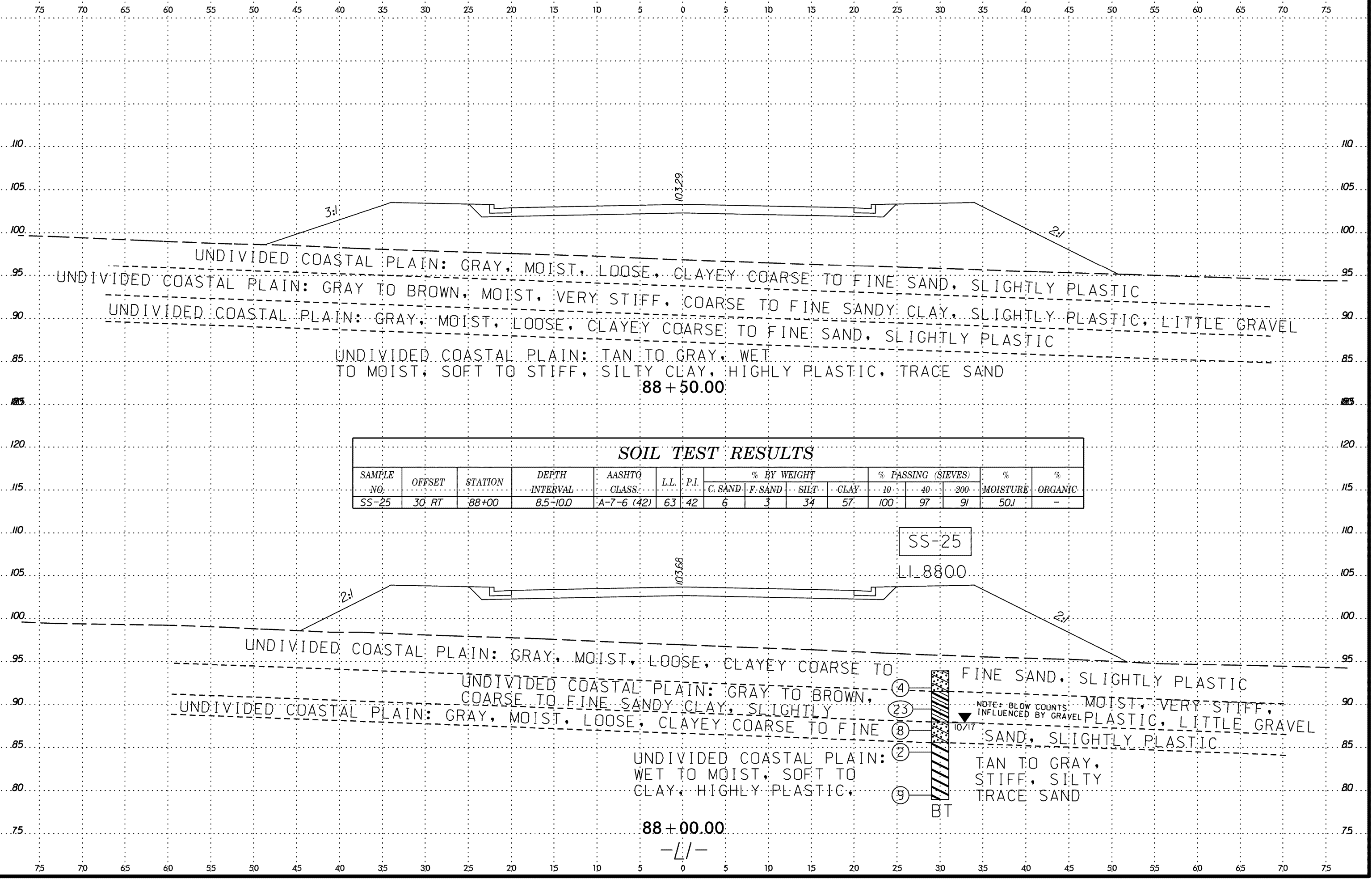


SYSTEM TIME
 USER NAME



-1/-

SYSTEM TIME
DATE
USER NAME



UNDIVIDED COASTAL PLAIN: GRAY, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC, LITTLE GRAVEL

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN TO GRAY, WET TO MOIST, SOFT TO STIFF, SILTY CLAY, HIGHLY PLASTIC, TRACE SAND

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-25	30 RT	88+00	8.5-10.0	A-7-6 (42)	63	42	6	3	34	57	100	97	91	50.1	-

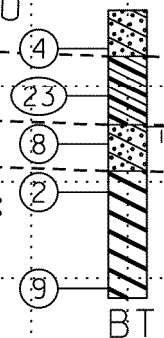
SS-25
 LI 8800

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC, LITTLE GRAVEL

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, LOOSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

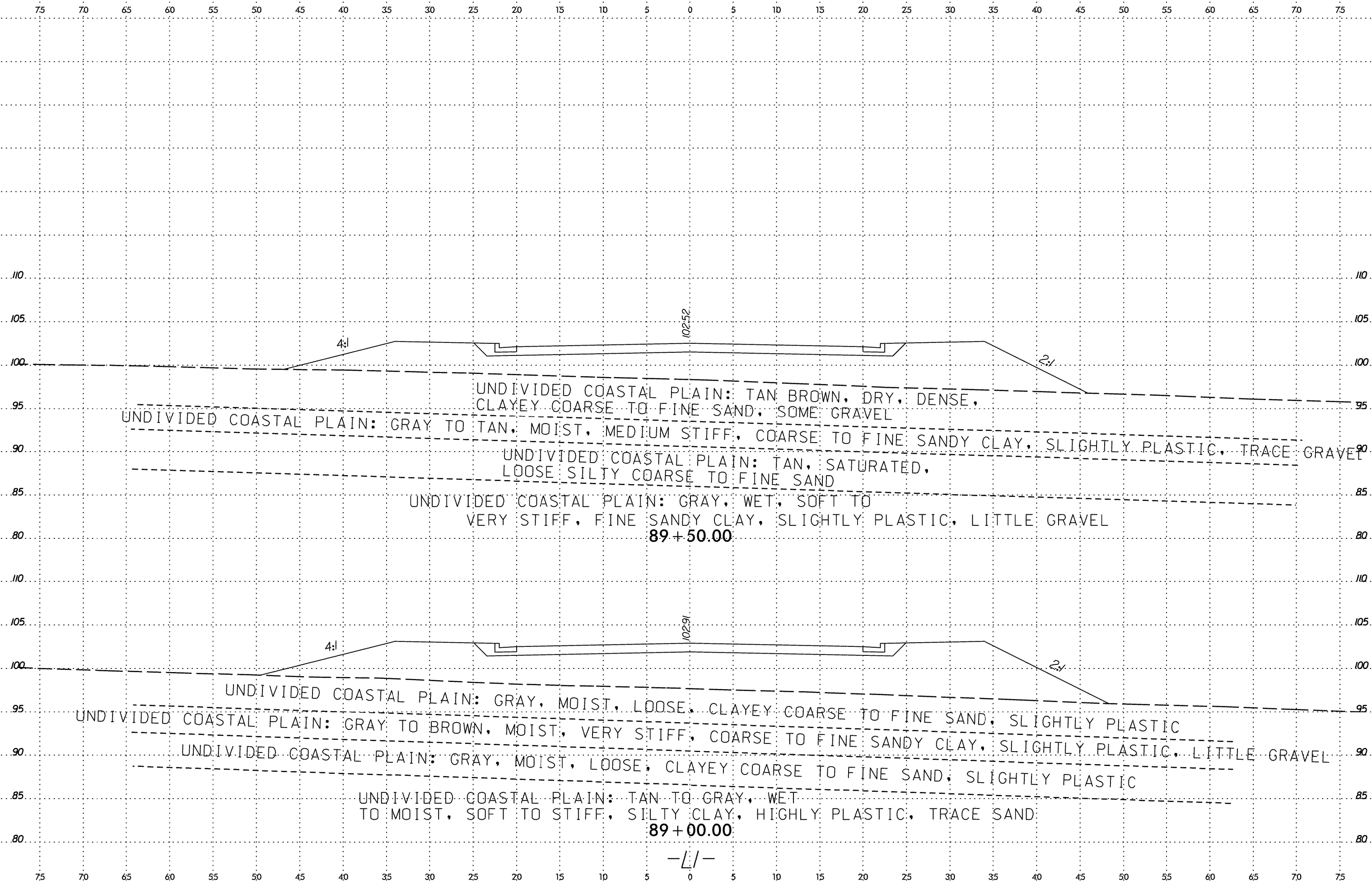
UNDIVIDED COASTAL PLAIN: TAN TO GRAY, WET TO MOIST, SOFT TO STIFF, SILTY CLAY, HIGHLY PLASTIC, TRACE SAND



NOTE: BLOW COUNTS INFLUENCED BY GRAVEL

88+00.00
 -1/-

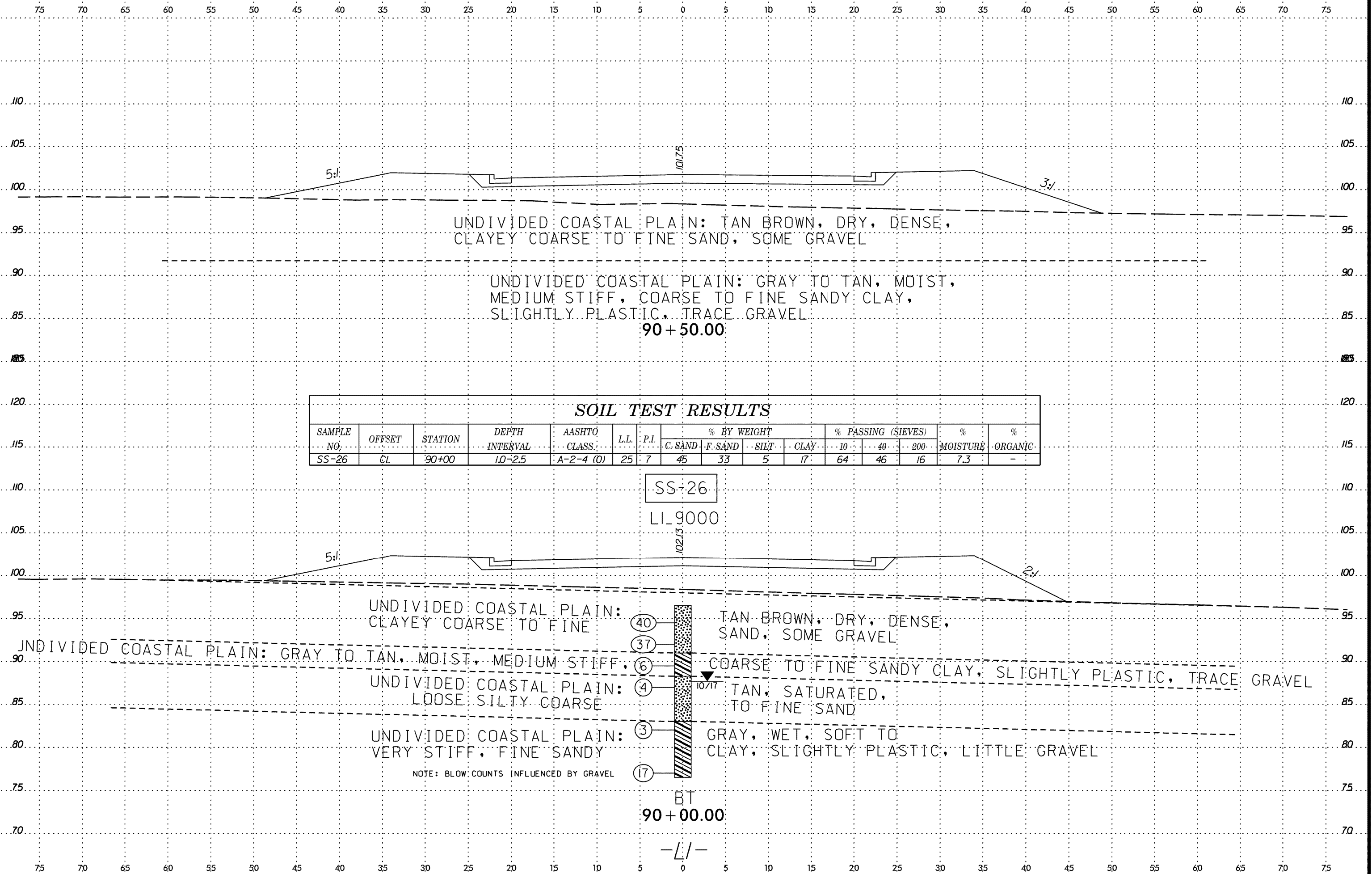
SYSTEM TIME
 USER NAME



6/23/16

 SYSTEM TIME *****

 USER NAME *****



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-26	CL	90+00	1.0-2.5	A-2-4 (0)	25	7	45	33	5	17	64	46	16	7.3	-

SS-26

LI 9000

40

37

6

4

3

17

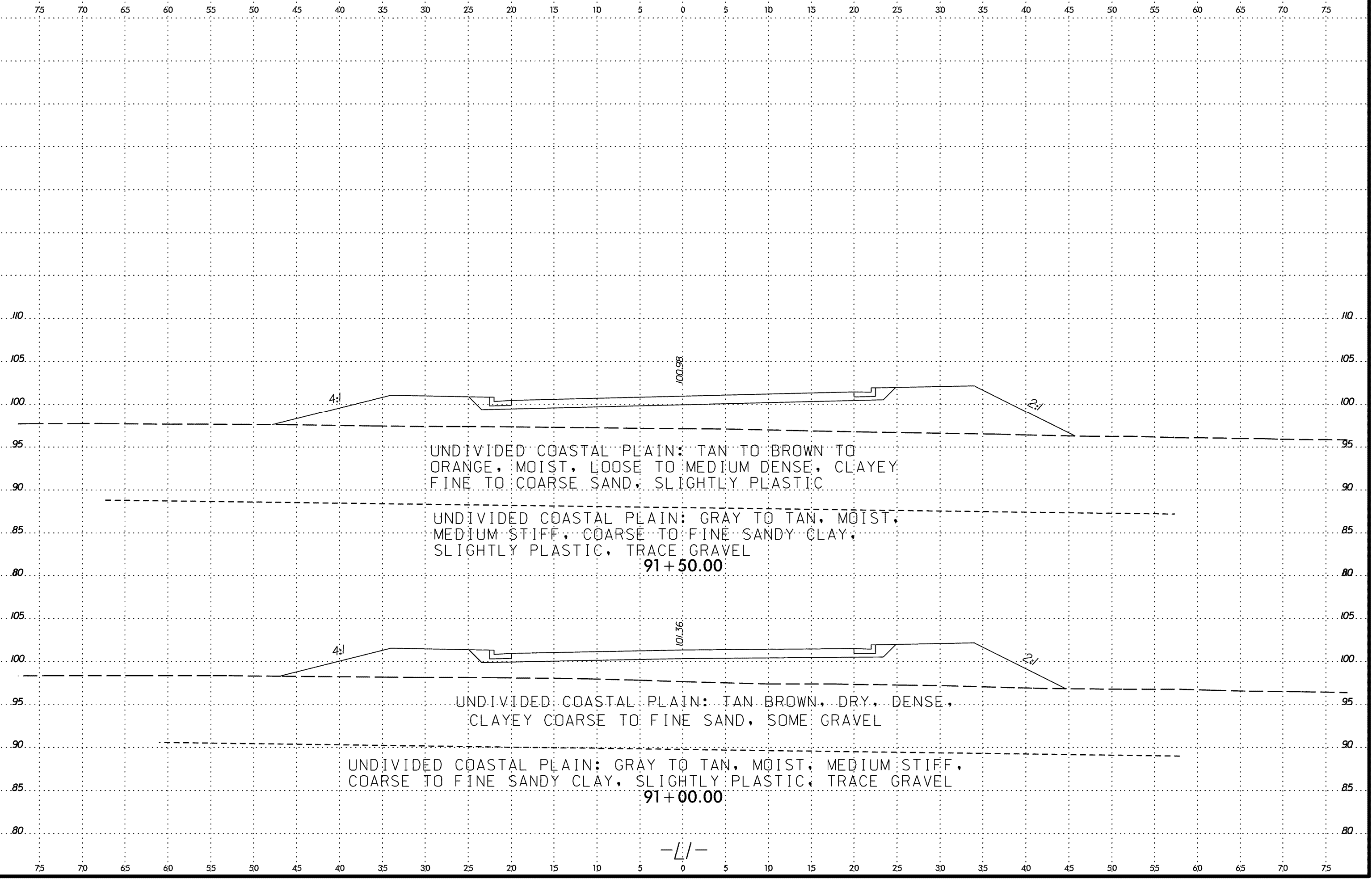
BT

90+00.00

-1/-

NOTE: BLOW COUNTS INFLUENCED BY GRAVEL

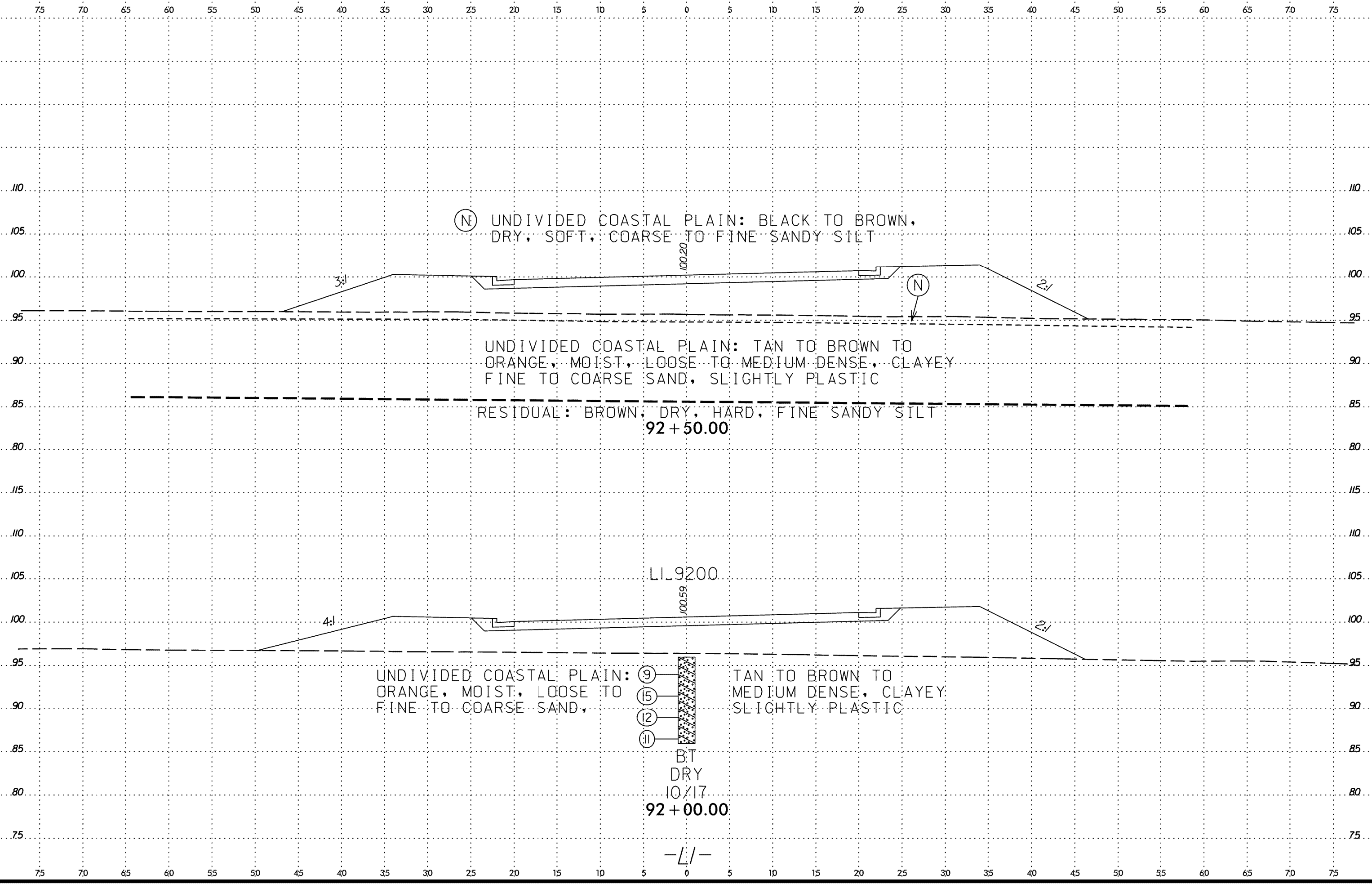
SYSTEMS
 DESIGN
 USER NAME



6/23/16

 SYSTEM TIME *****

 USER *****



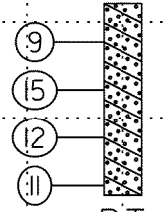
(N) UNDIVIDED COASTAL PLAIN: BLACK TO BROWN,
 DRY, SOFT, COARSE TO FINE SANDY SILT

UNDIVIDED COASTAL PLAIN: TAN TO BROWN TO
 ORANGE, MOIST, LOOSE TO MEDIUM DENSE, CLAYEY
 FINE TO COARSE SAND, SLIGHTLY PLASTIC

RESIDUAL: BROWN, DRY, HARD, FINE SANDY SILT
 92 + 50.00

UNDIVIDED COASTAL PLAIN:
 ORANGE, MOIST, LOOSE TO
 FINE TO COARSE SAND,

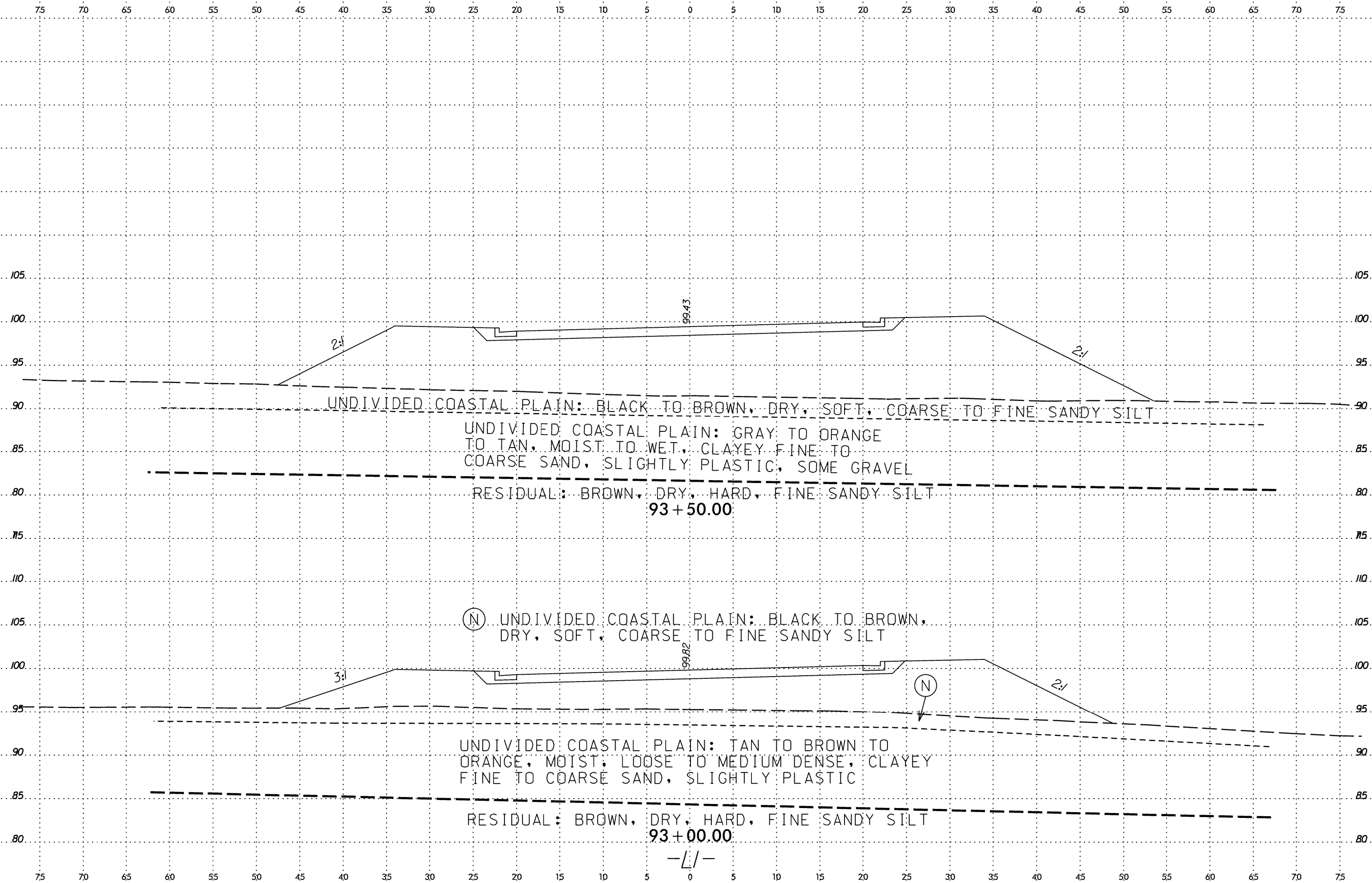
TAN TO BROWN TO
 MEDIUM DENSE, CLAYEY
 SLIGHTLY PLASTIC



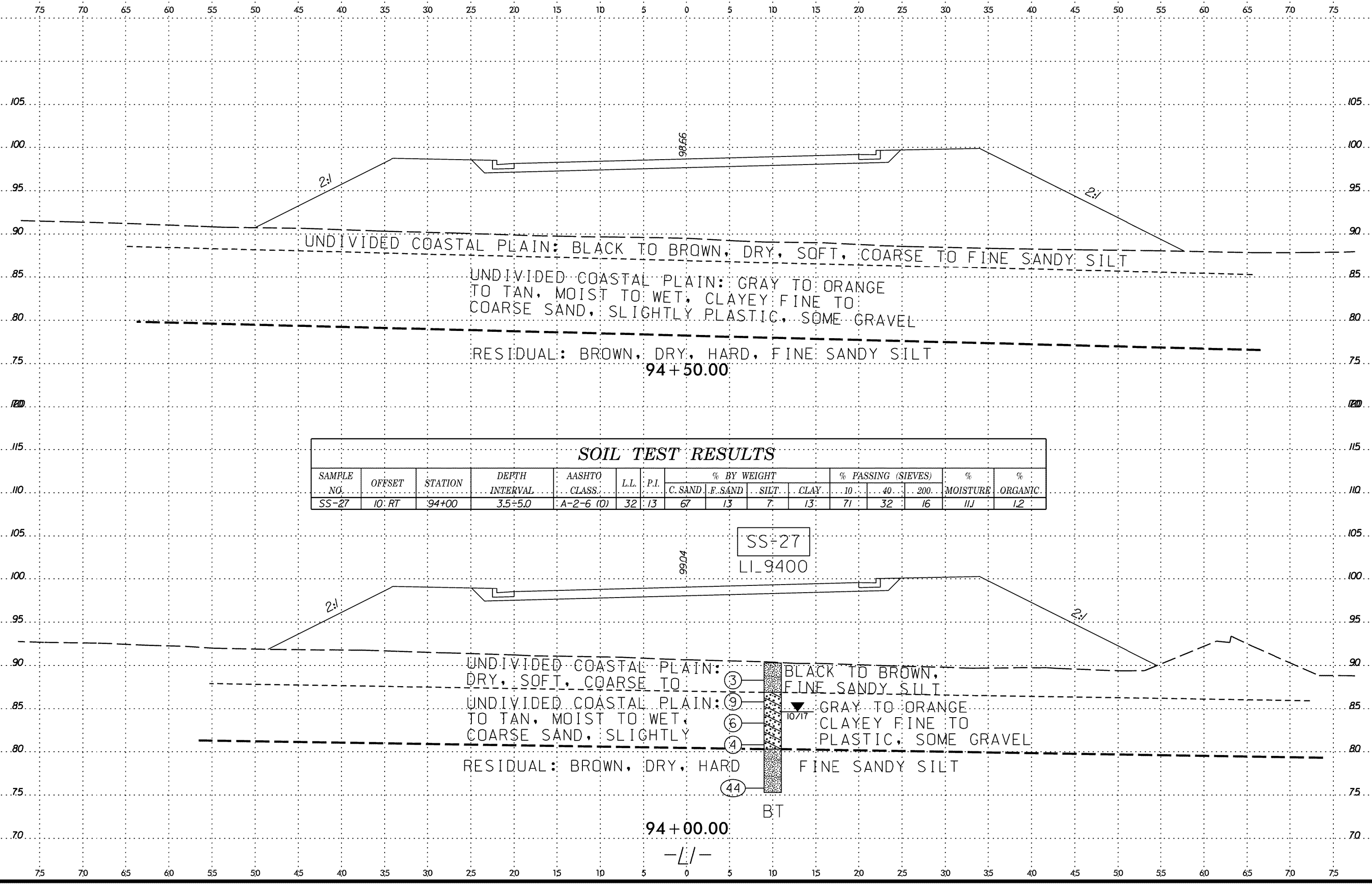
BT
 DRY
 10/17
 92 + 00.00

-L/-

SYSTEM TIME
 DATE
 USER NAME



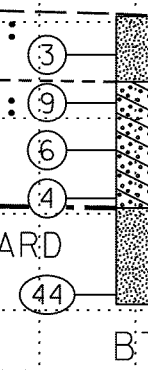
SYSTEM TIME
 USER NAME



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-27	10' RT	94+00	3.5-5.0	A-2-6 (0)	32	13	67	13	7	13	71	32	16	11.1	1.2

SS-27
LI 9400



UNDIVIDED COASTAL PLAIN: BLACK TO BROWN, DRY, SOFT, COARSE TO FINE SANDY SILT (3)

UNDIVIDED COASTAL PLAIN: GRAY TO ORANGE TO TAN, MOIST TO WET, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC, SOME GRAVEL (9)

RESIDUAL: BROWN, DRY, HARD, FINE SANDY SILT (6)

RESIDUAL: BROWN, DRY, HARD, FINE SANDY SILT (4)

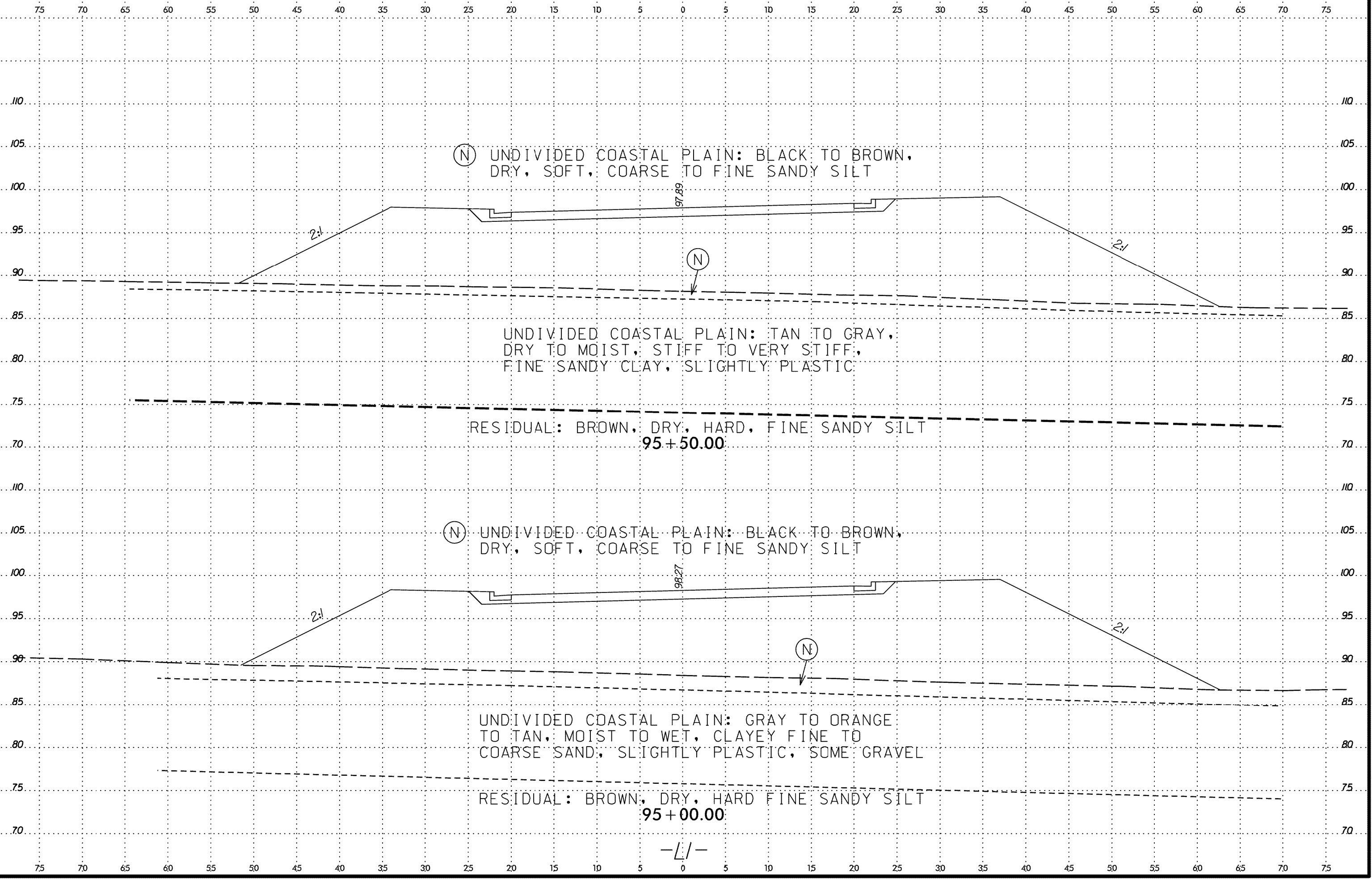
RESIDUAL: BROWN, DRY, HARD, FINE SANDY SILT (44)

94 + 00.00

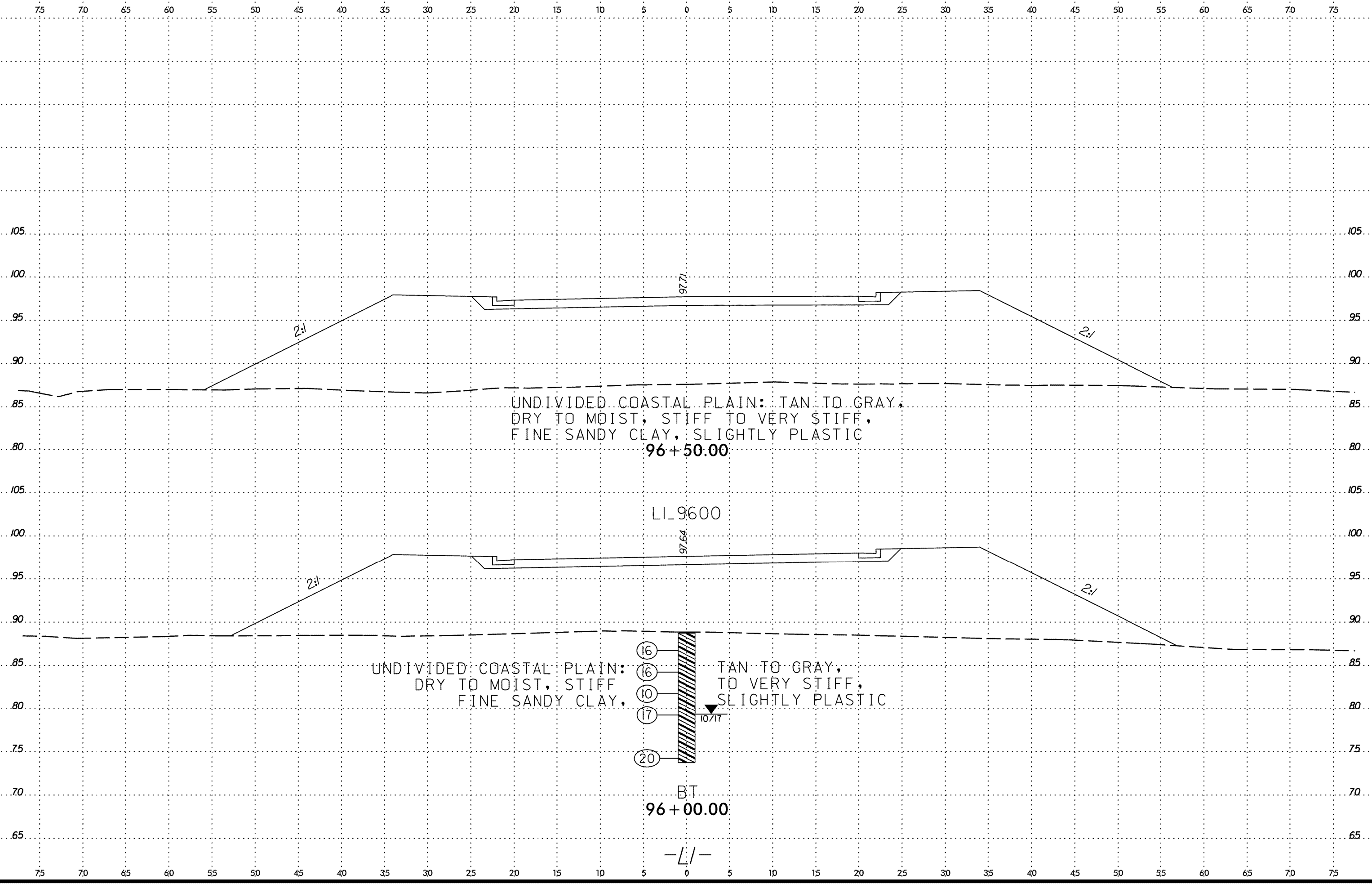
-L/-

 SYSTEM TIME *****

 USER NAME *****



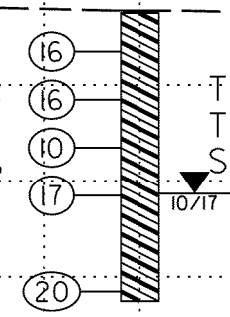
SYSTEM TIME
 PROJECT LOCATION
 SUBURNAME



UNDIVIDED COASTAL PLAIN: TAN TO GRAY,
 DRY TO MOIST, STIFF TO VERY STIFF,
 FINE SANDY CLAY, SLIGHTLY PLASTIC
 96+50.00

LI_9600

UNDIVIDED COASTAL PLAIN: TAN TO GRAY,
 DRY TO MOIST, STIFF TO VERY STIFF,
 FINE SANDY CLAY, SLIGHTLY PLASTIC



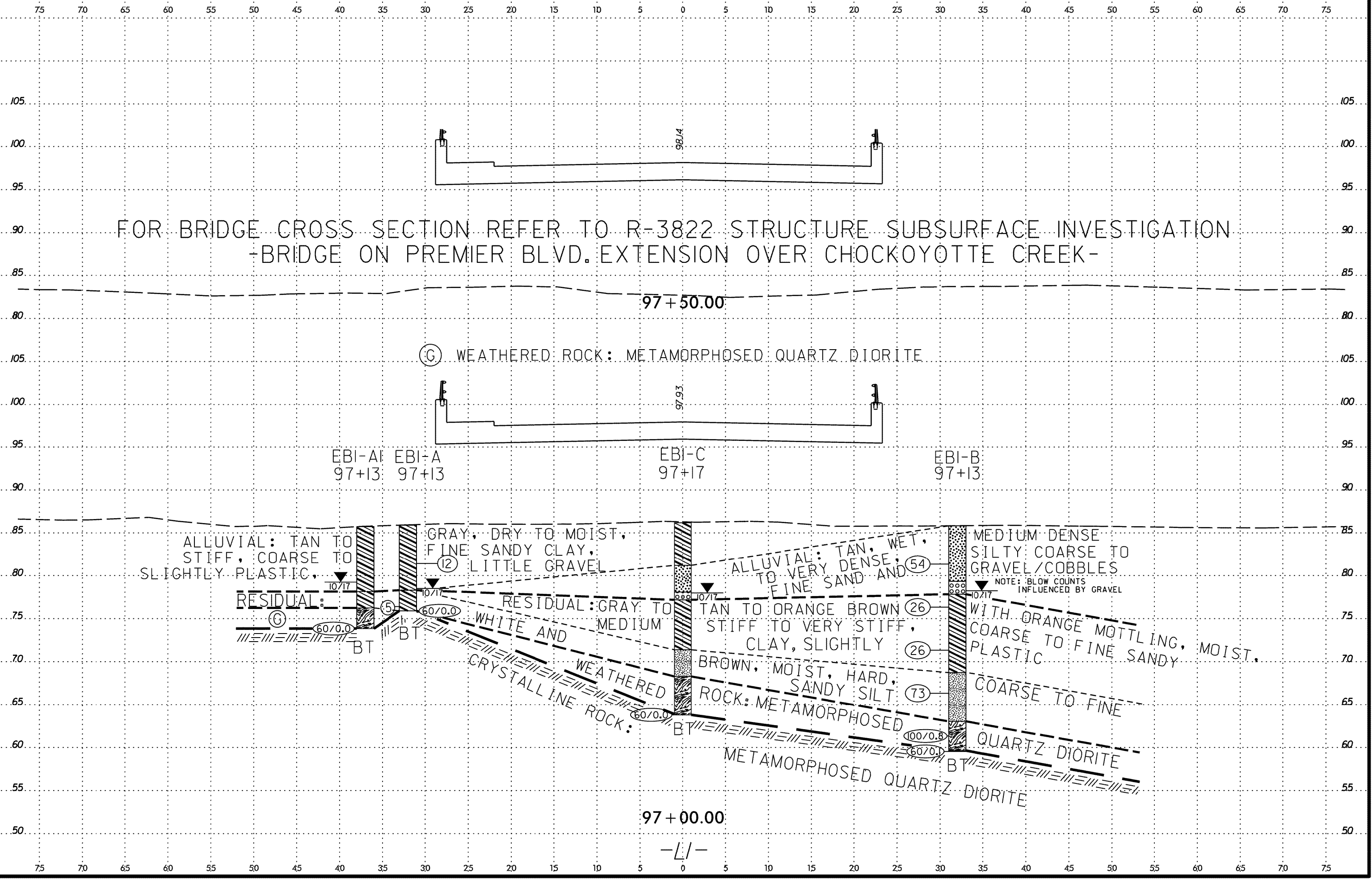
BT
 96+00.00

-L/-

6/23/16

 SYSTEM TIME *****

 USER NAME *****



FOR BRIDGE CROSS SECTION REFER TO R-3822 STRUCTURE SUBSURFACE INVESTIGATION
-BRIDGE ON PREMIER BLVD. EXTENSION OVER CHOCKOYOTTE CREEK-

97+50.00

(G) WEATHERED ROCK: METAMORPHOSED QUARTZ DIORITE

EBI-A
97+13

EBI-C
97+17

EBI-B
97+13

ALLUVIAL: TAN TO STIFF, COARSE TO SLIGHTLY PLASTIC.

GRAY, DRY TO MOIST, FINE SANDY CLAY, LITTLE GRAVEL

ALLUVIAL: TAN, WET, TO VERY DENSE, FINE SAND AND

MEDIUM DENSE SILTY COARSE TO GRAVEL/COBBLES WITH ORANGE MOTTLING, COARSE TO FINE SANDY PLASTIC, MOIST.

RESIDUAL:

RESIDUAL: GRAY TO WHITE AND MEDIUM

TAN TO ORANGE BROWN, STIFF TO VERY STIFF, CLAY, SLIGHTLY

WEATHERED CRYSTALLINE ROCK:

BROWN, MOIST, HARD, SANDY SILT

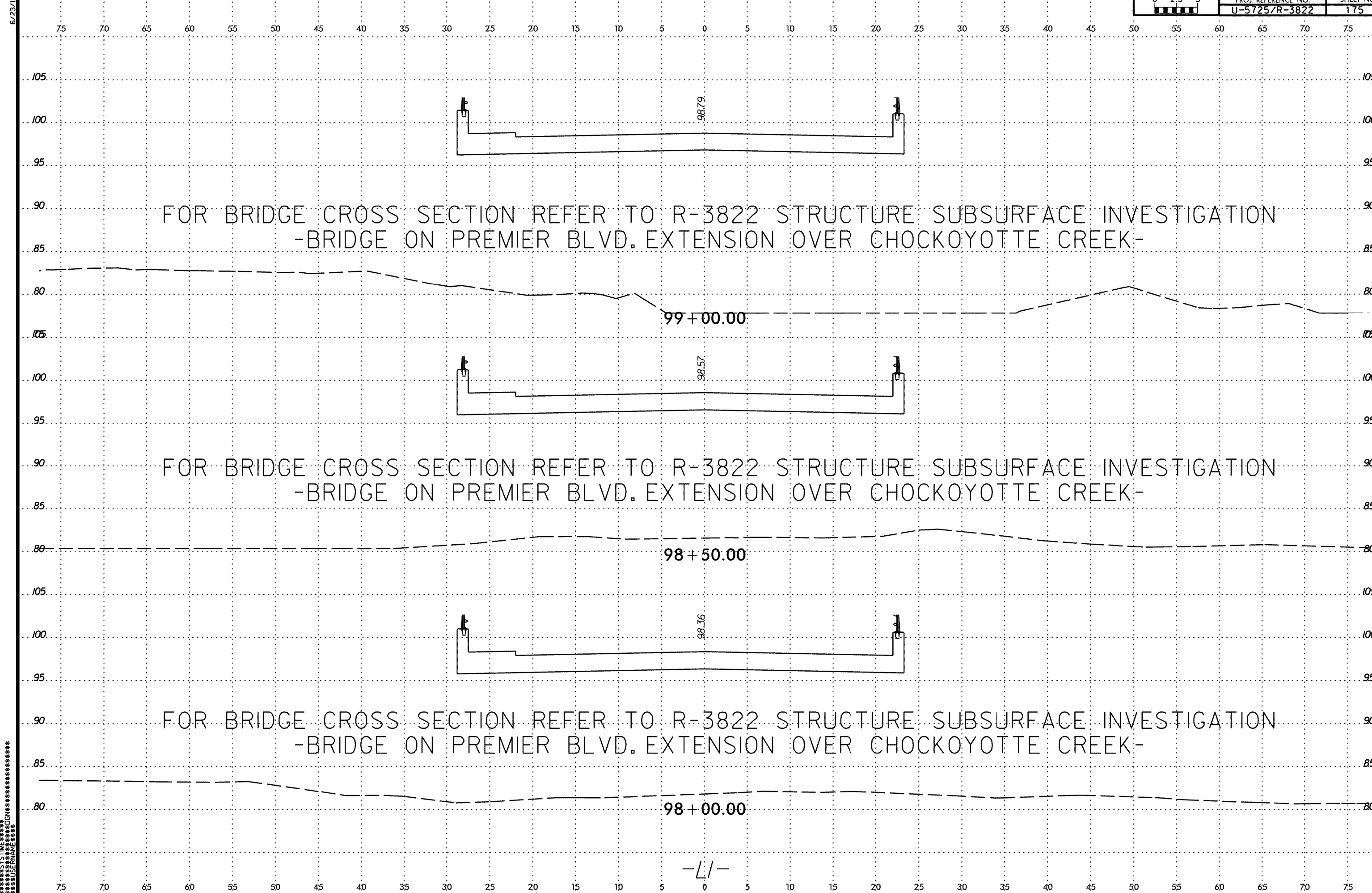
ROCK: METAMORPHOSED QUARTZ DIORITE

97+00.00

-L/-

SYSTEM TIME

 USER NAME



FOR BRIDGE CROSS SECTION REFER TO R-3822 STRUCTURE SUBSURFACE INVESTIGATION
 - BRIDGE ON PREMIER BLVD. EXTENSION OVER CHOCKOYOTTE CREEK -

98+00.00

98.79

FOR BRIDGE CROSS SECTION REFER TO R-3822 STRUCTURE SUBSURFACE INVESTIGATION
 - BRIDGE ON PREMIER BLVD. EXTENSION OVER CHOCKOYOTTE CREEK -

98+50.00

98.57

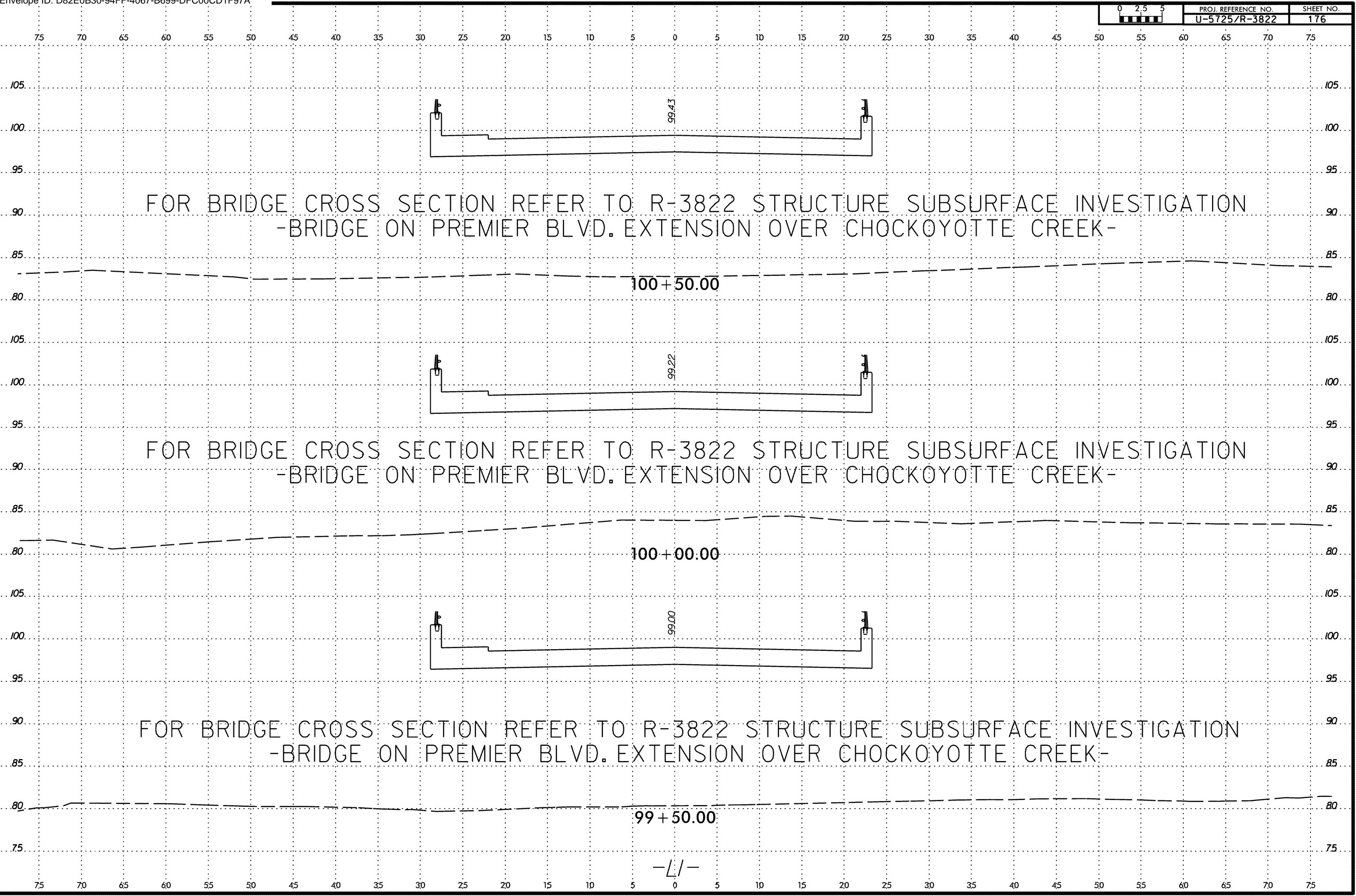
FOR BRIDGE CROSS SECTION REFER TO R-3822 STRUCTURE SUBSURFACE INVESTIGATION
 - BRIDGE ON PREMIER BLVD. EXTENSION OVER CHOCKOYOTTE CREEK -

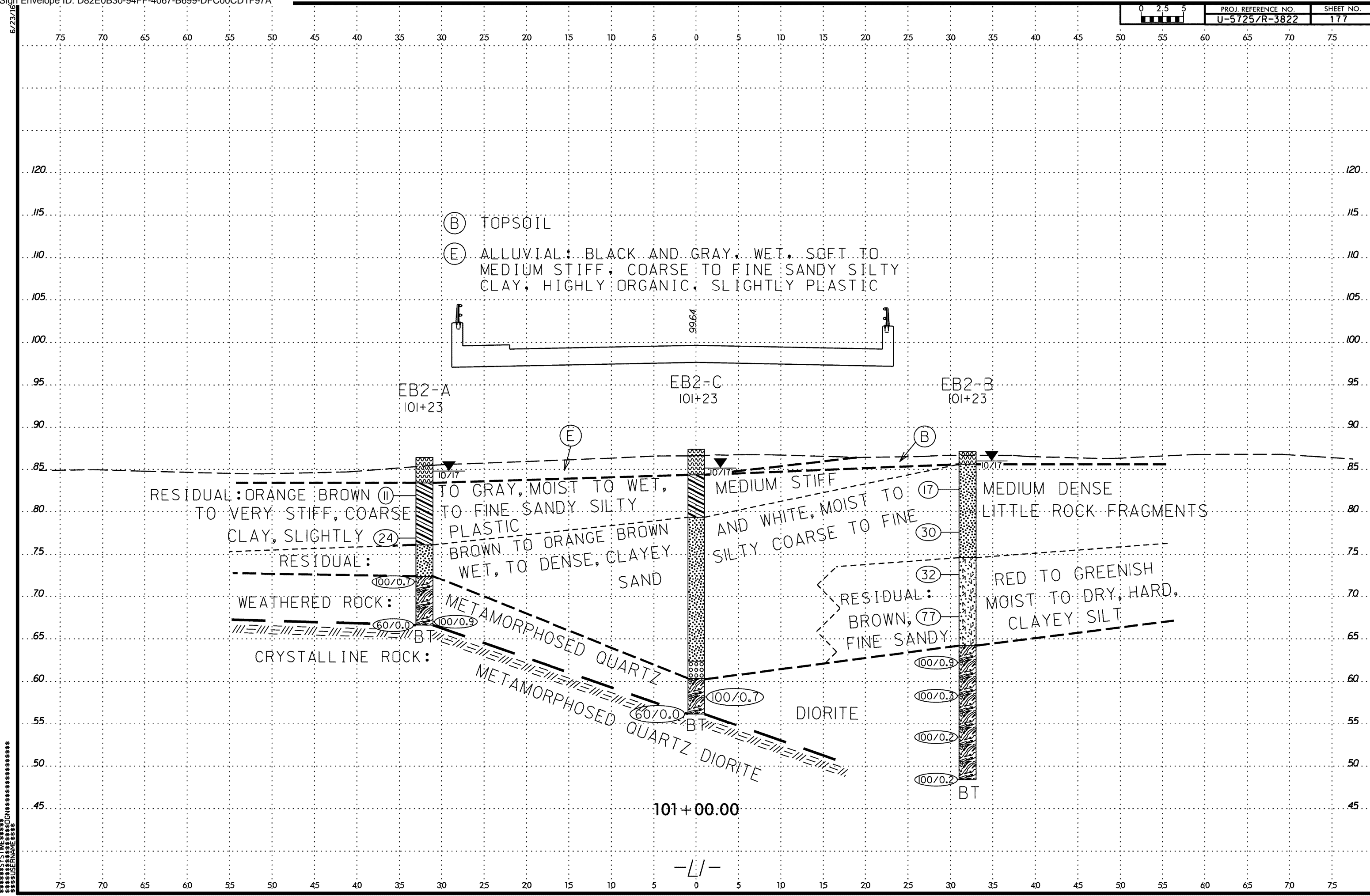
98+00.00

98.36

SYSTEM TIME
 SUBSECTION
 SUBSERNAME

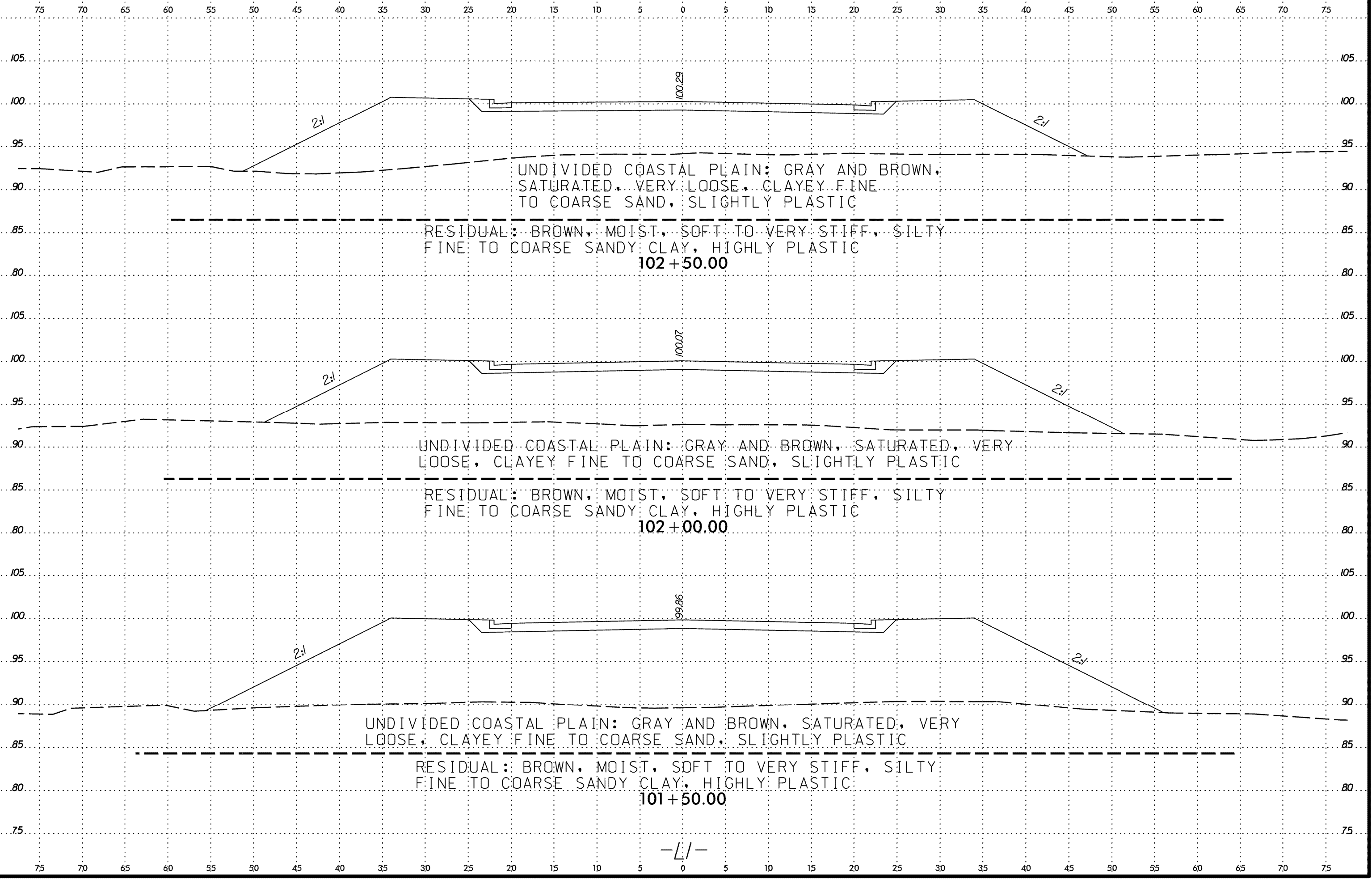
6/23/16
SYSTEM TIME
SESSION
SUBSERIAL





SYSTEM TIME

 USER NAME



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-28	CL	103+00	13.5-15.0	A-7-6 (14)	52	30	28	18	24	30	100	86	56	17.8	-

SS-28

INTERSECTION WITH
-Y6-

LI-10300

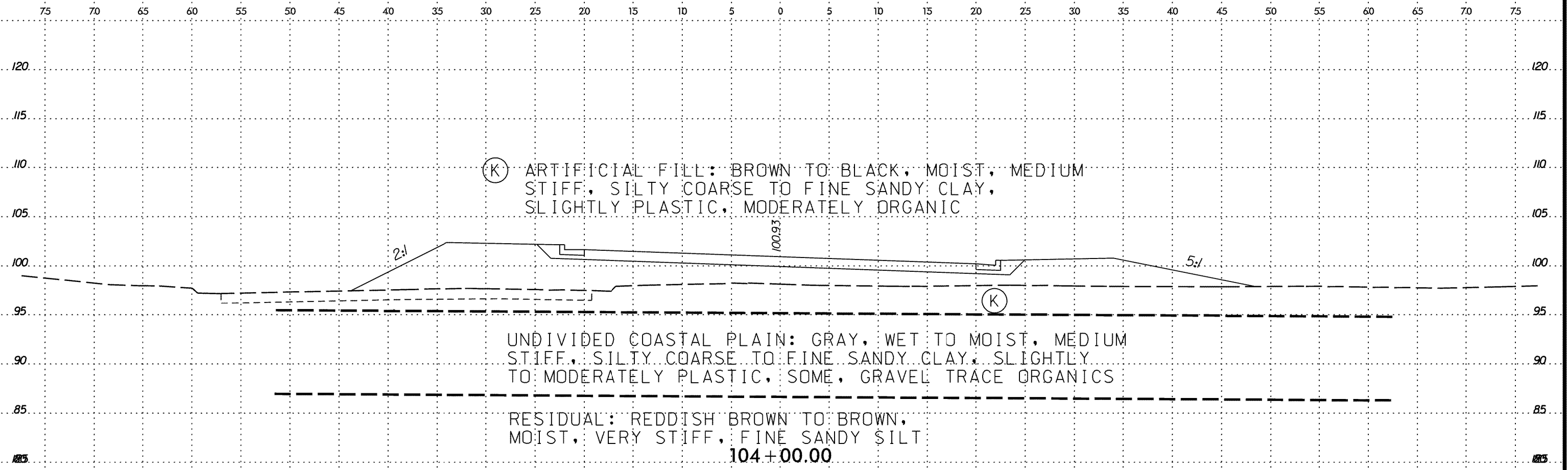
100.50

ARTIFICIAL FILL: GRAY TO BROWN, WET, MEDIUM (29) DENSE, CLAYEY FINE TO COARSE SAND AND GRAVEL
 ARTIFICIAL FILL: TAN BROWN, MOIST, MEDIUM STIFF, (6) FINE TO COARSE SANDY CLAY, HIGHLY PLASTIC.
 UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, SATURATED, (2) VERY LOOSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC
 RESIDUAL: BROWN, MOIST, (2) SOFT TO VERY STIFF, SANDY CLAY, HIGHLY PLASTIC
 SILTY FINE TO COARSE (16)

BT
103+00.00

-L/-

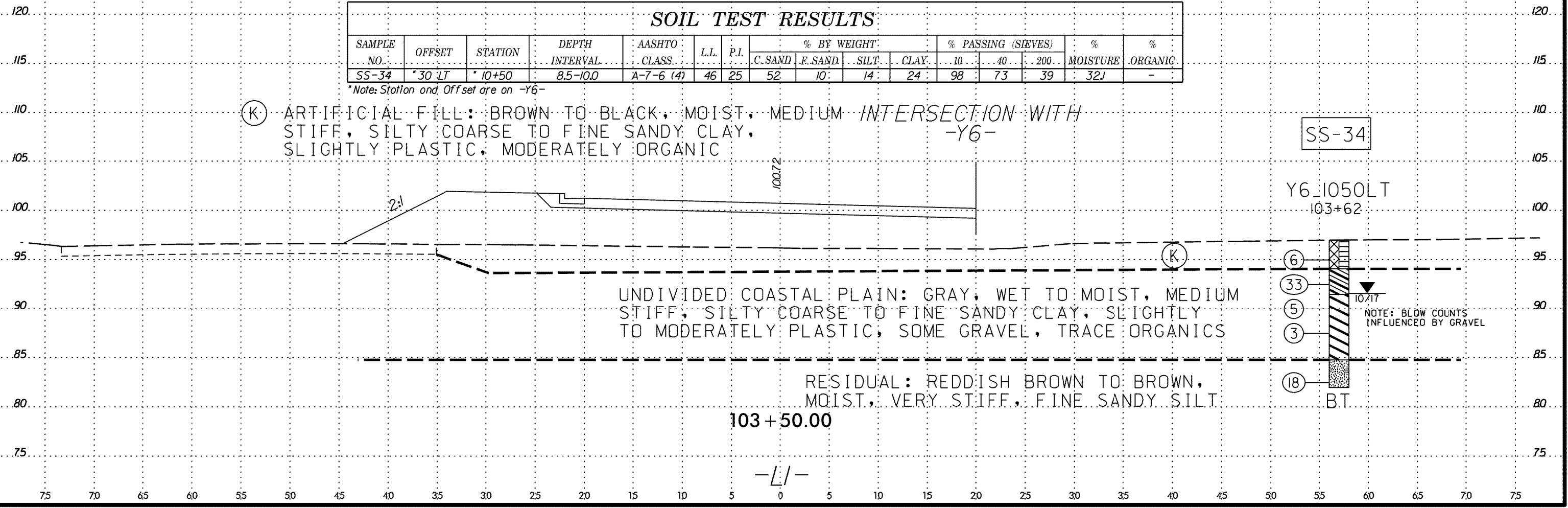
SYSTEM TIME
DATE
SUBSEQUENT



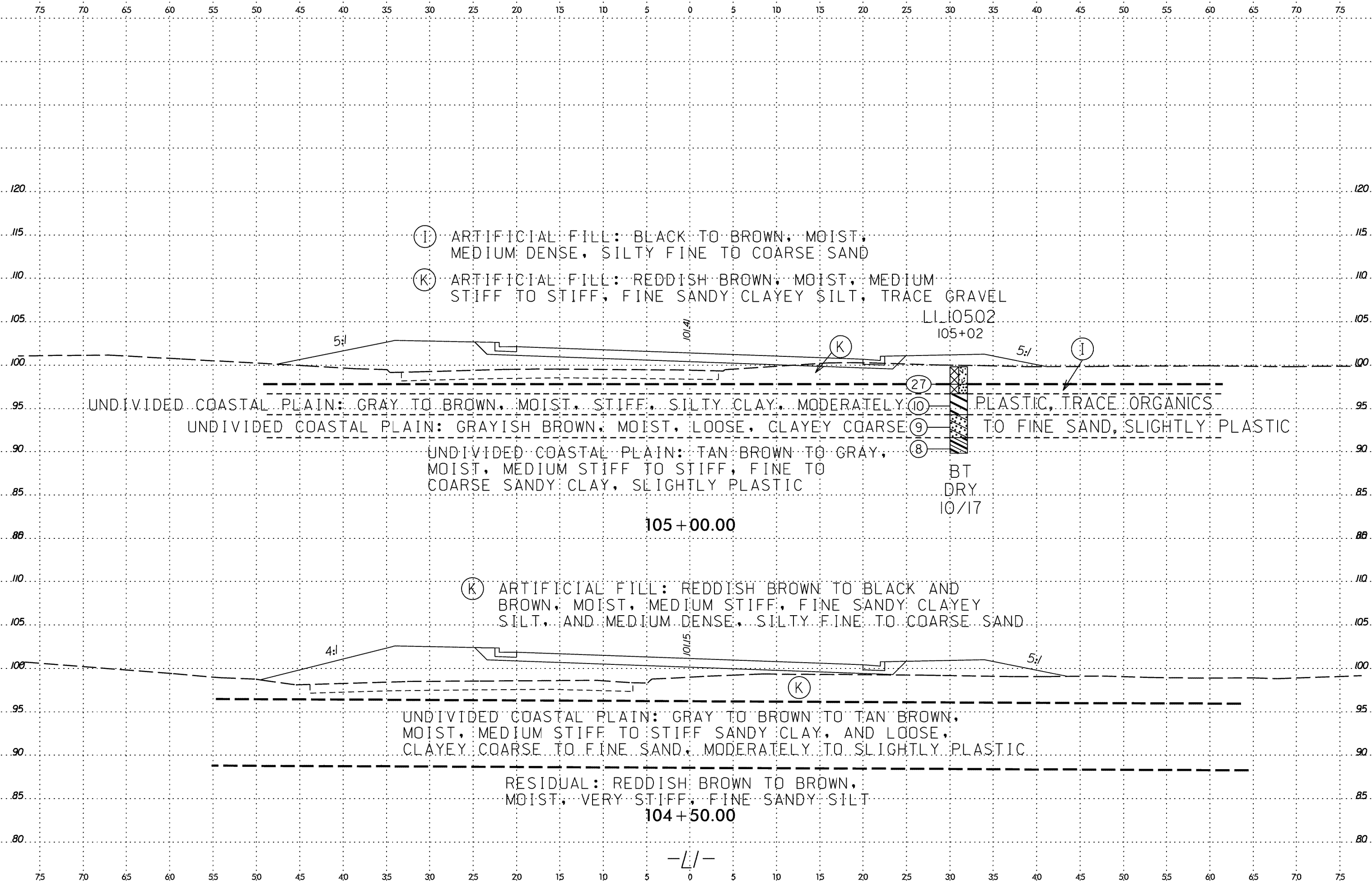
SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT:				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-34	* 30' LT	* 10+50	8.5-10.0	A-7-6 (4)	46	25	52	10	14	24	98	73	39	32.1	-

** Note: Station and Offset are on -Y6-*

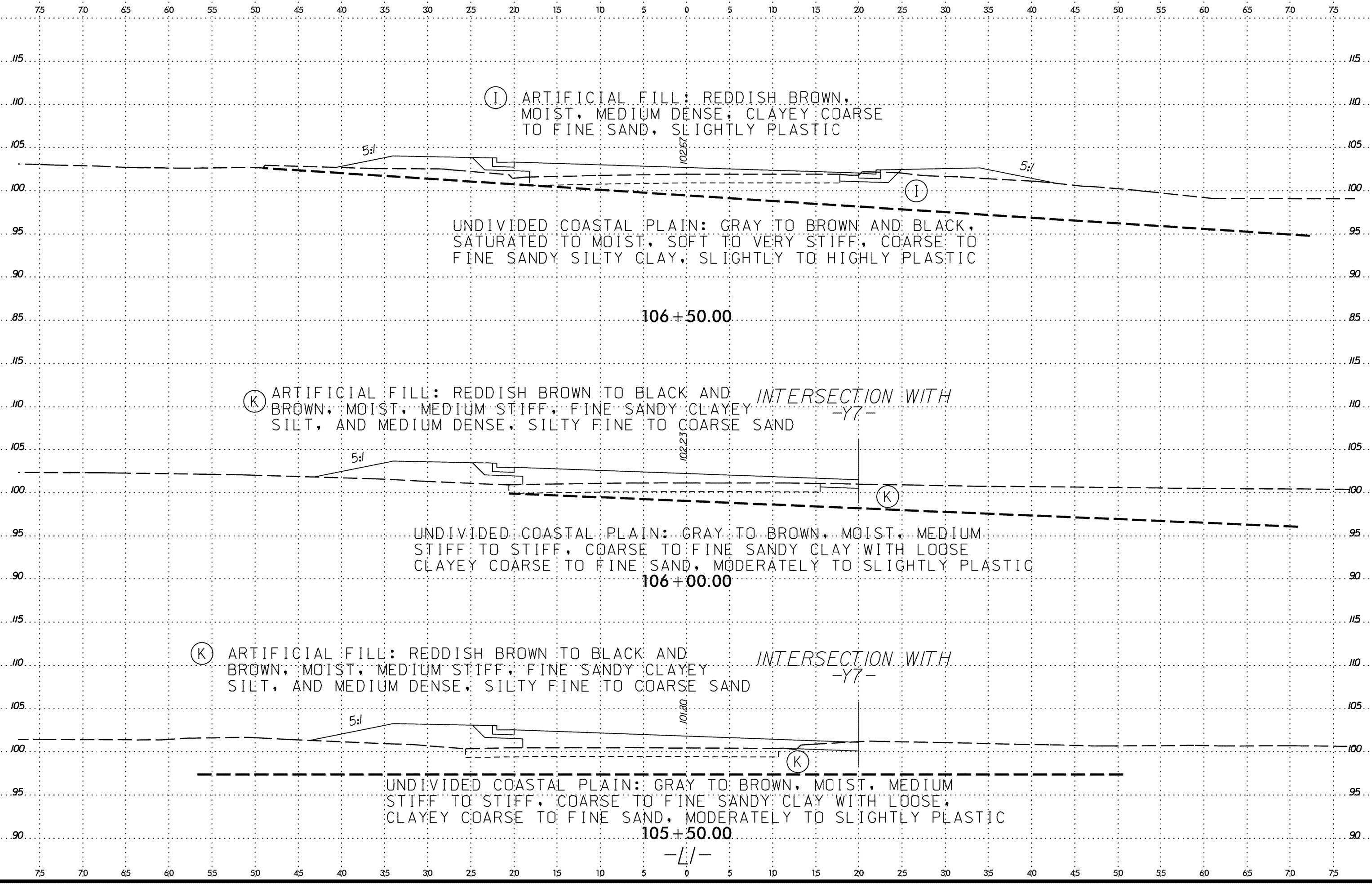


SYSTEM TIME
 USER NAME



 SYSTEM TIME *****

 USER NAME *****



(I) ARTIFICIAL FILL: REDDISH BROWN, MOIST, MEDIUM DENSE, CLAYEY COARSE TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN AND BLACK, SATURATED TO MOIST, SOFT TO VERY STIFF, COARSE TO FINE SANDY SILTY CLAY, SLIGHTLY TO HIGHLY PLASTIC

106+50.00

(K) ARTIFICIAL FILL: REDDISH BROWN TO BLACK AND BROWN, MOIST, MEDIUM STIFF, FINE SANDY CLAYEY SILT, AND MEDIUM DENSE, SILTY FINE TO COARSE SAND

INTERSECTION WITH -Y7-

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY WITH LOOSE CLAYEY COARSE TO FINE SAND, MODERATELY TO SLIGHTLY PLASTIC

106+00.00

(K) ARTIFICIAL FILL: REDDISH BROWN TO BLACK AND BROWN, MOIST, MEDIUM STIFF, FINE SANDY CLAYEY SILT, AND MEDIUM DENSE, SILTY FINE TO COARSE SAND

INTERSECTION WITH -Y7-

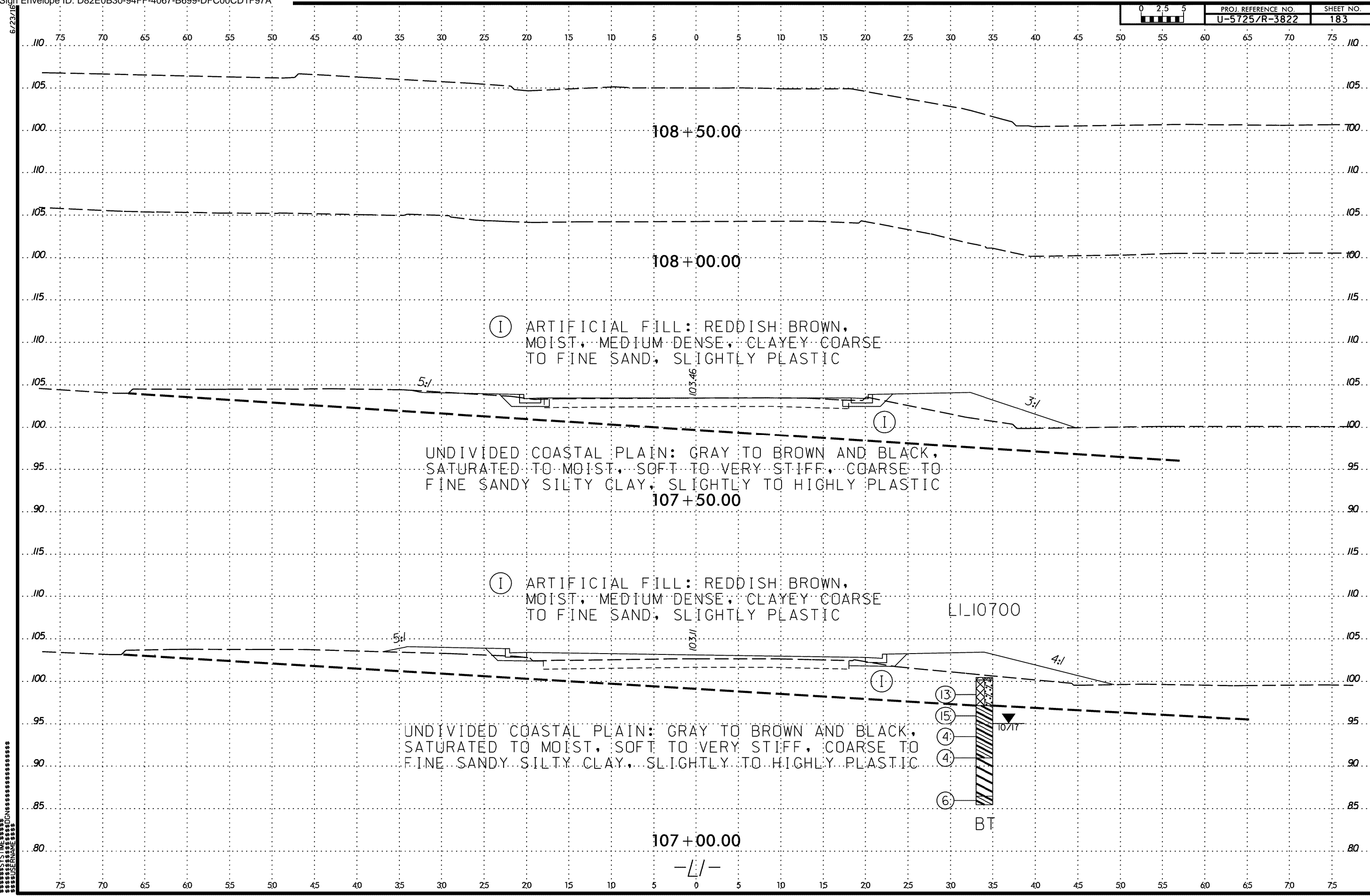
UNDIVIDED COASTAL PLAIN: GRAY TO BROWN, MOIST, MEDIUM STIFF TO STIFF, COARSE TO FINE SANDY CLAY WITH LOOSE, CLAYEY COARSE TO FINE SAND, MODERATELY TO SLIGHTLY PLASTIC

105+50.00

-L/-

6/23/16

 SYSTEM TIME *****
 USER *****
 USER NAME *****



① ARTIFICIAL FILL: REDDISH BROWN,
MOIST, MEDIUM DENSE, CLAYEY COARSE
TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN AND BLACK,
SATURATED TO MOIST, SOFT TO VERY STIFF, COARSE TO
FINE SANDY SILTY CLAY, SLIGHTLY TO HIGHLY PLASTIC

① ARTIFICIAL FILL: REDDISH BROWN,
MOIST, MEDIUM DENSE, CLAYEY COARSE
TO FINE SAND, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY TO BROWN AND BLACK,
SATURATED TO MOIST, SOFT TO VERY STIFF, COARSE TO
FINE SANDY SILTY CLAY, SLIGHTLY TO HIGHLY PLASTIC

- ⑬
- ⑮
- ④
- ④
- ⑥

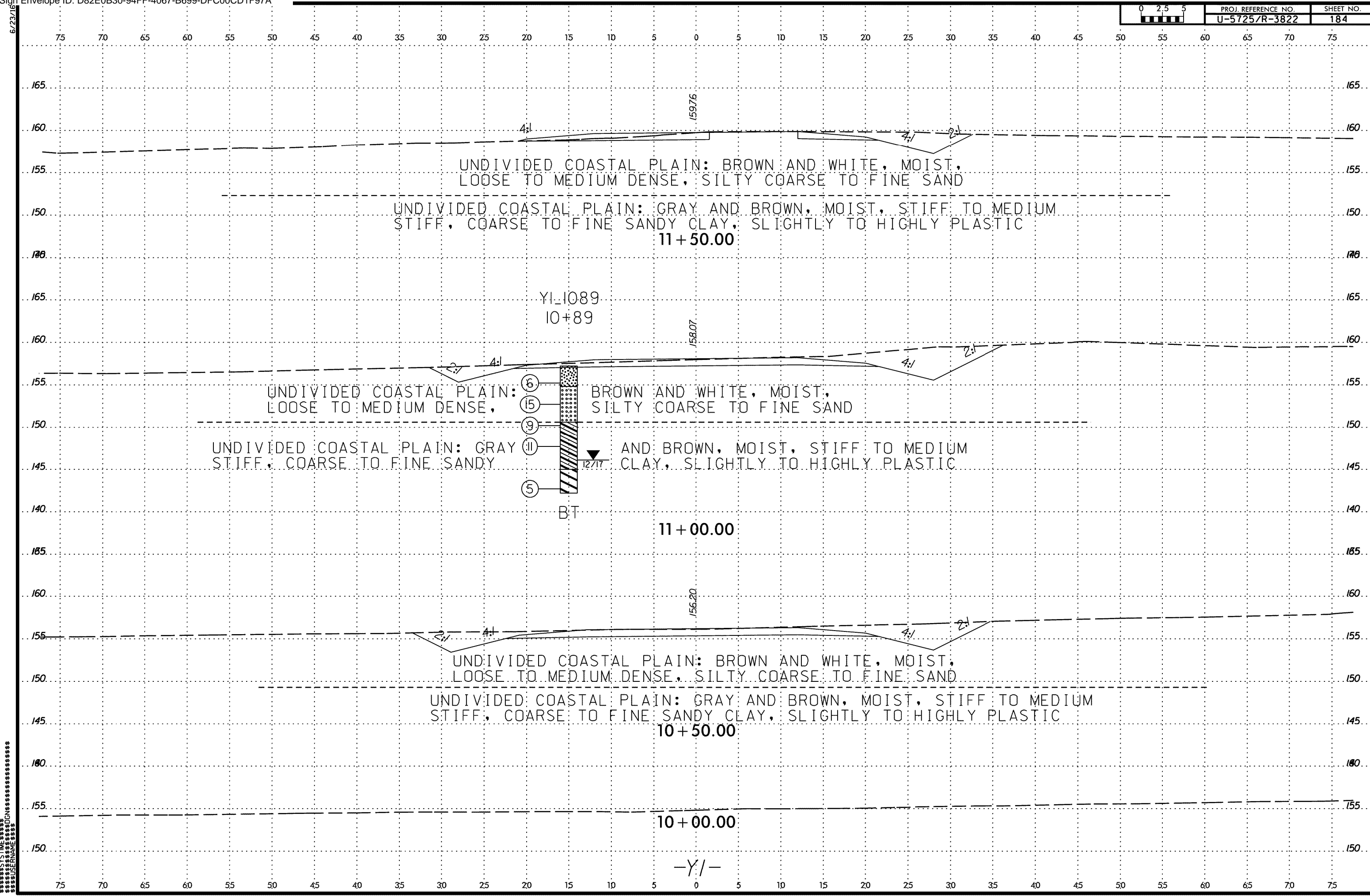
BT

107.17

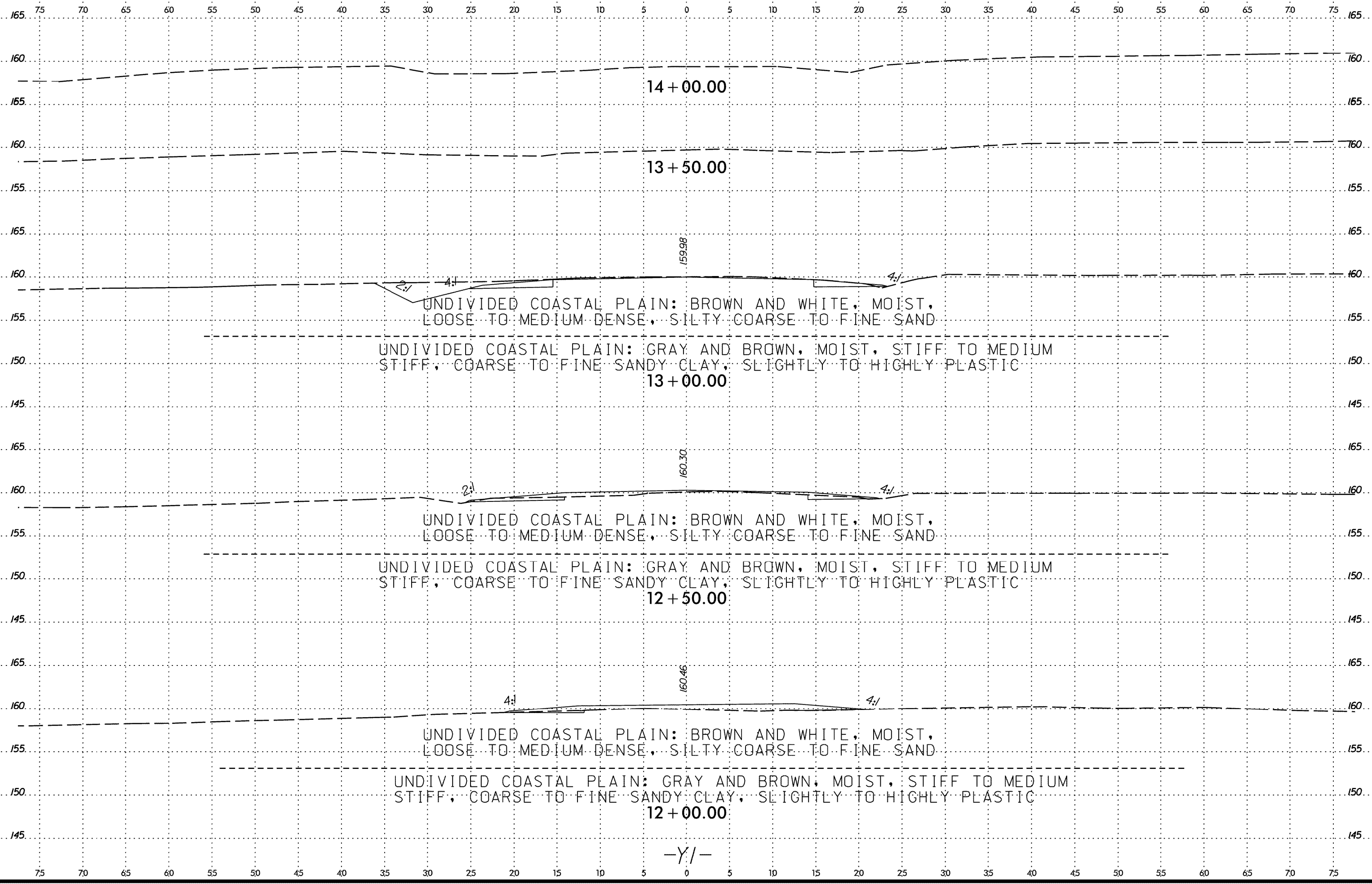
107+00.00

-L/-

SYSTEM TIME
 PROJECT LOCATION
 USER NAME



SYSTEM TIME
DATE
USER NAME



UNDIVIDED COASTAL PLAIN: BROWN AND WHITE, MOIST,
 LOOSE TO MEDIUM DENSE, SILTY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, MOIST, STIFF TO MEDIUM
 STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN AND WHITE, MOIST,
 LOOSE TO MEDIUM DENSE, SILTY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, MOIST, STIFF TO MEDIUM
 STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN AND WHITE, MOIST,
 LOOSE TO MEDIUM DENSE, SILTY COARSE TO FINE SAND

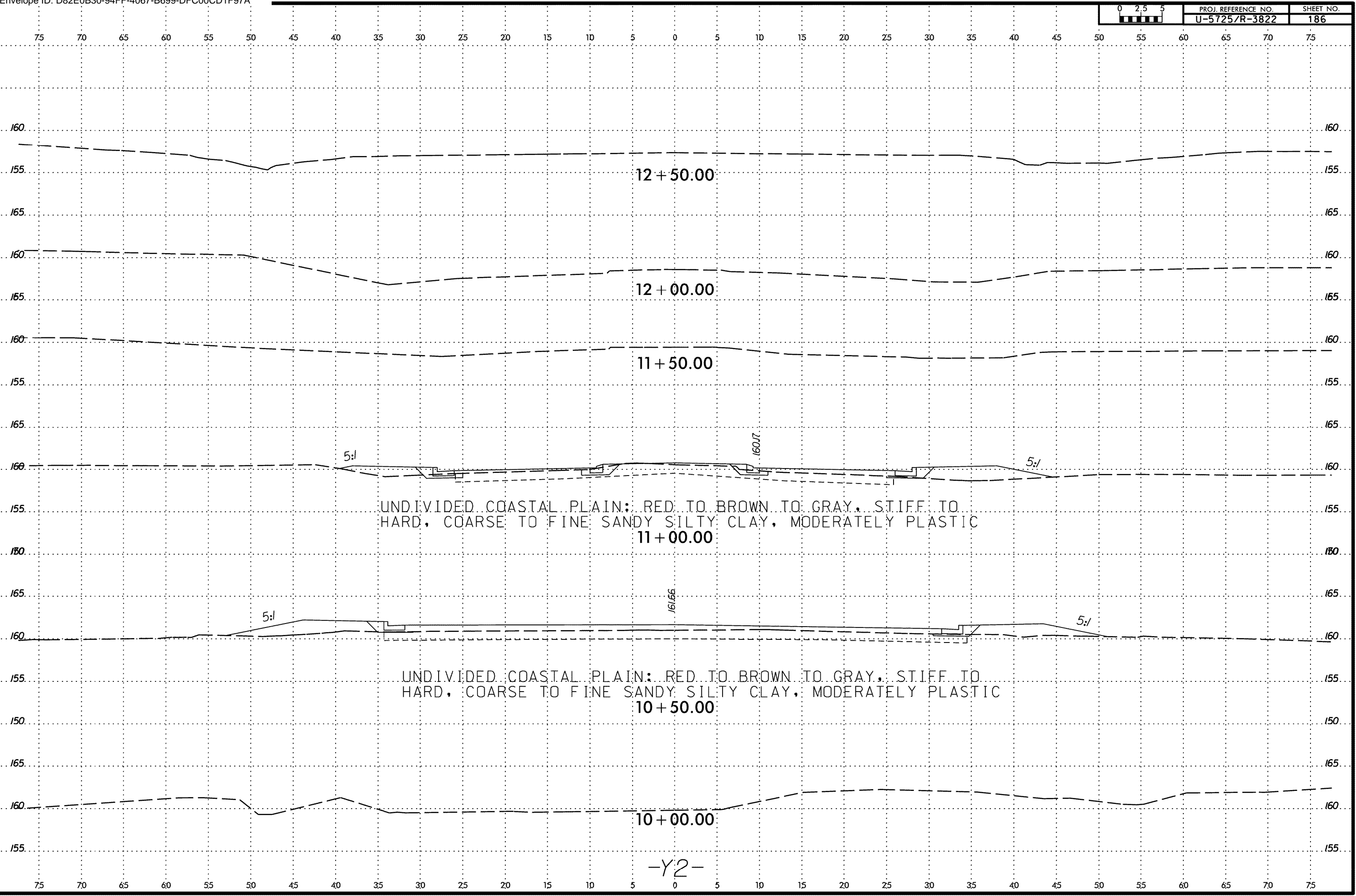
UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, MOIST, STIFF TO MEDIUM
 STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO HIGHLY PLASTIC

-Y/-

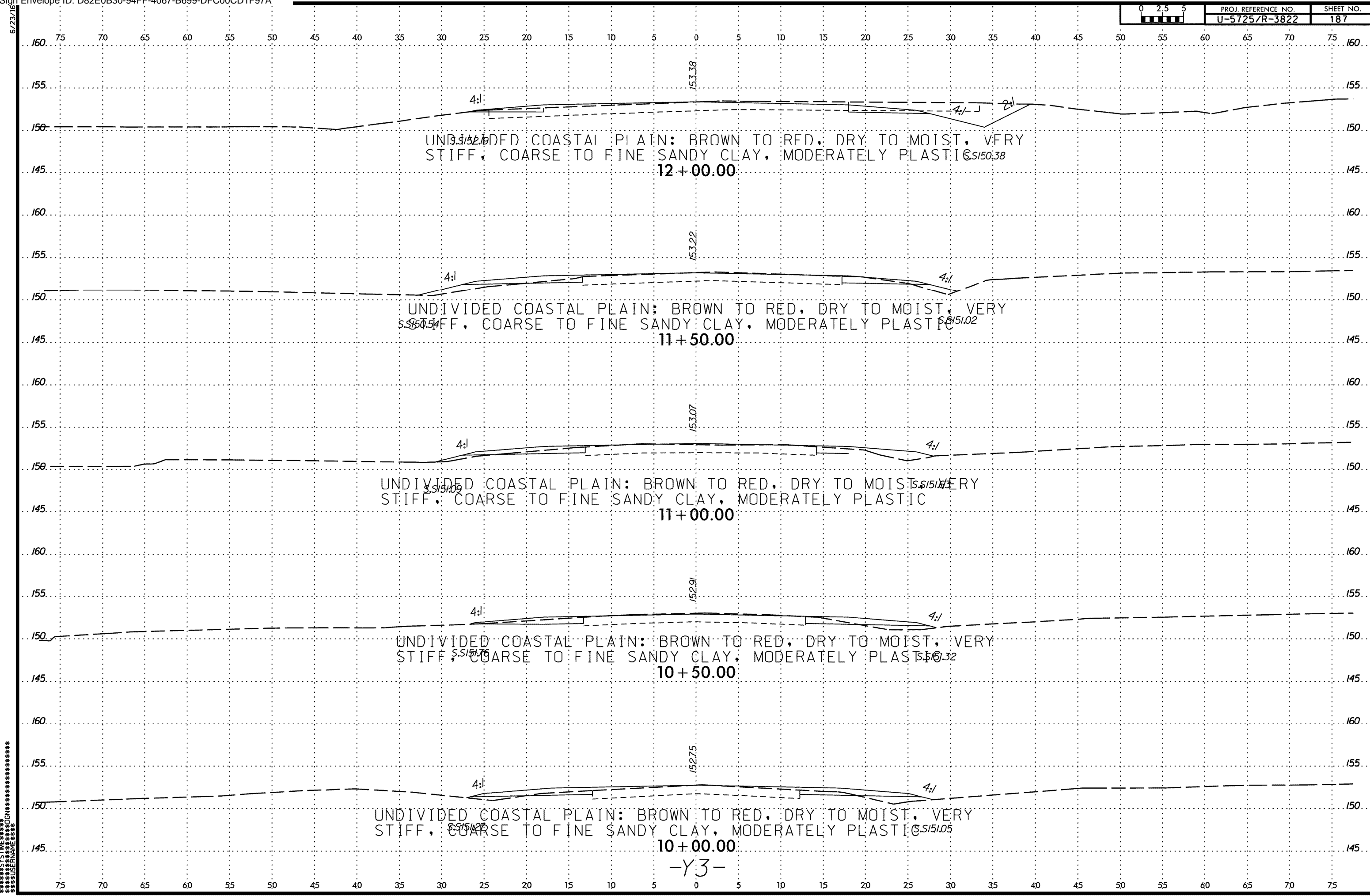
 SYSTEM TIME *****

 USER *****

6/23/16
SYSTEMS
SECTION
SUBSTRATE

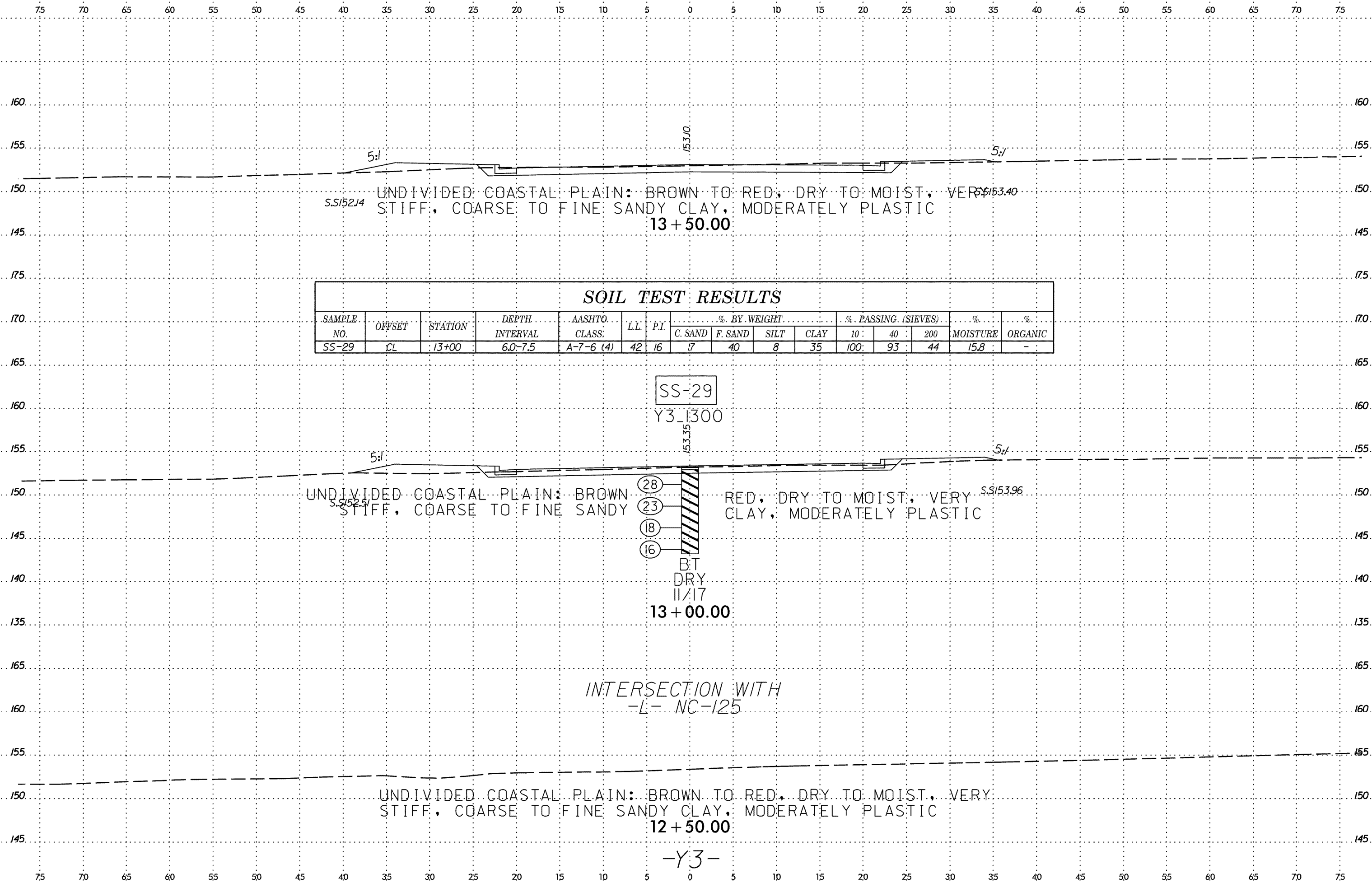


-Y2-



 SYSTEM *****

 USER *****



SS/52.14
 UNDIVIDED COASTAL PLAIN: BROWN TO RED, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC
 13+50.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-29	CL	13+00	6.0-7.5	A-7-6 (4)	42	16	17	40	8	35	100	93	44	15.8	-

SS-29

Y3_1300

SS/52.57
 UNDIVIDED COASTAL PLAIN: BROWN STIFF, COARSE TO FINE SANDY
 28
 23
 18
 16
 BT DRY II/17
 13+00.00
 RED, DRY TO MOIST, VERY CLAY, MODERATELY PLASTIC
 SS/53.96

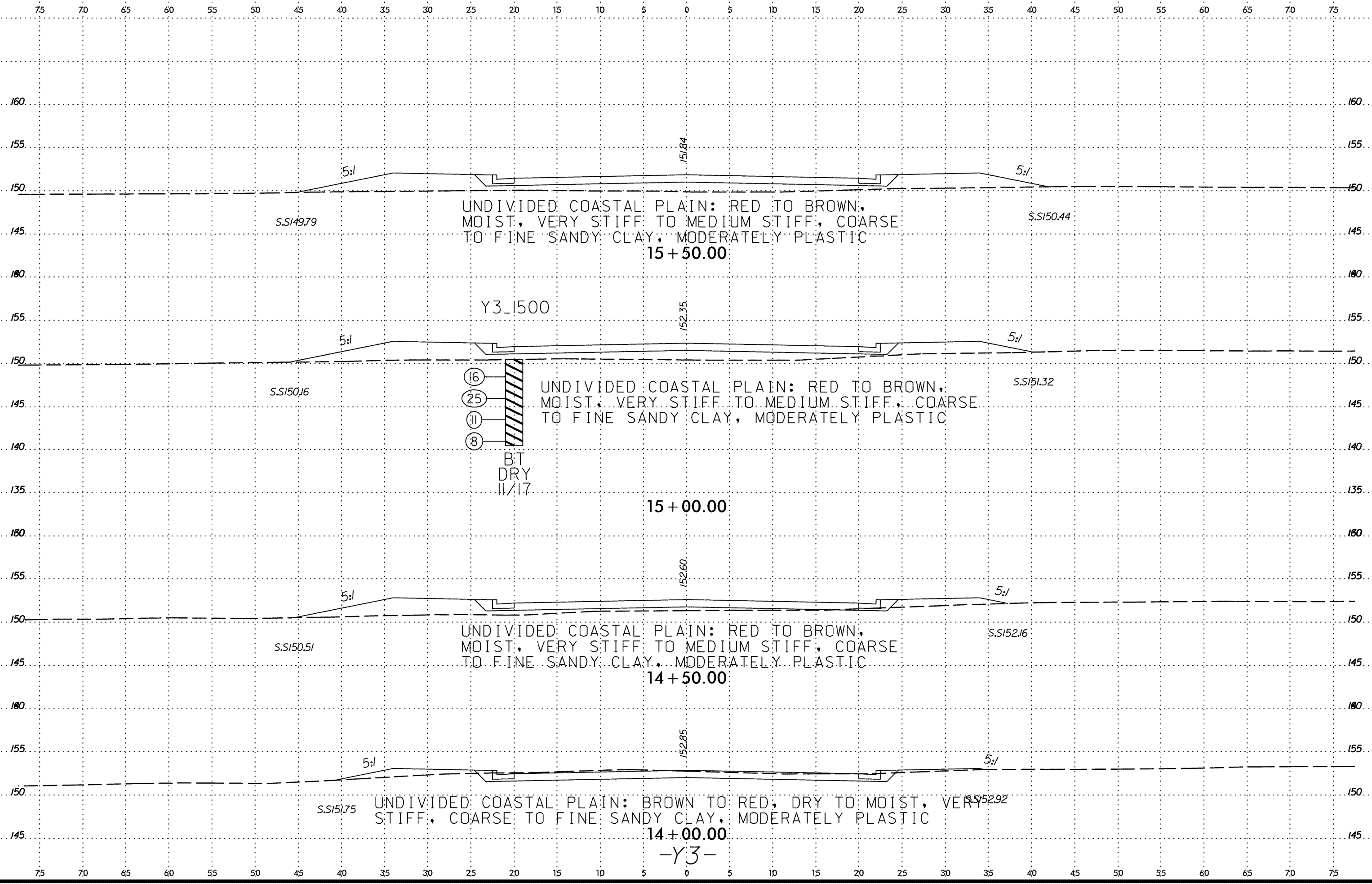
INTERSECTION WITH
 -L- NC-125

UNDIVIDED COASTAL PLAIN: BROWN TO RED, DRY TO MOIST, VERY STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC
 12+50.00

-Y3-

 SYSTEM TIME *****

 USER NAME *****



UNDIVIDED COASTAL PLAIN: RED TO BROWN,
 MOIST, VERY STIFF TO MEDIUM STIFF, COARSE
 TO FINE SANDY CLAY, MODERATELY PLASTIC
 15 + 50.00

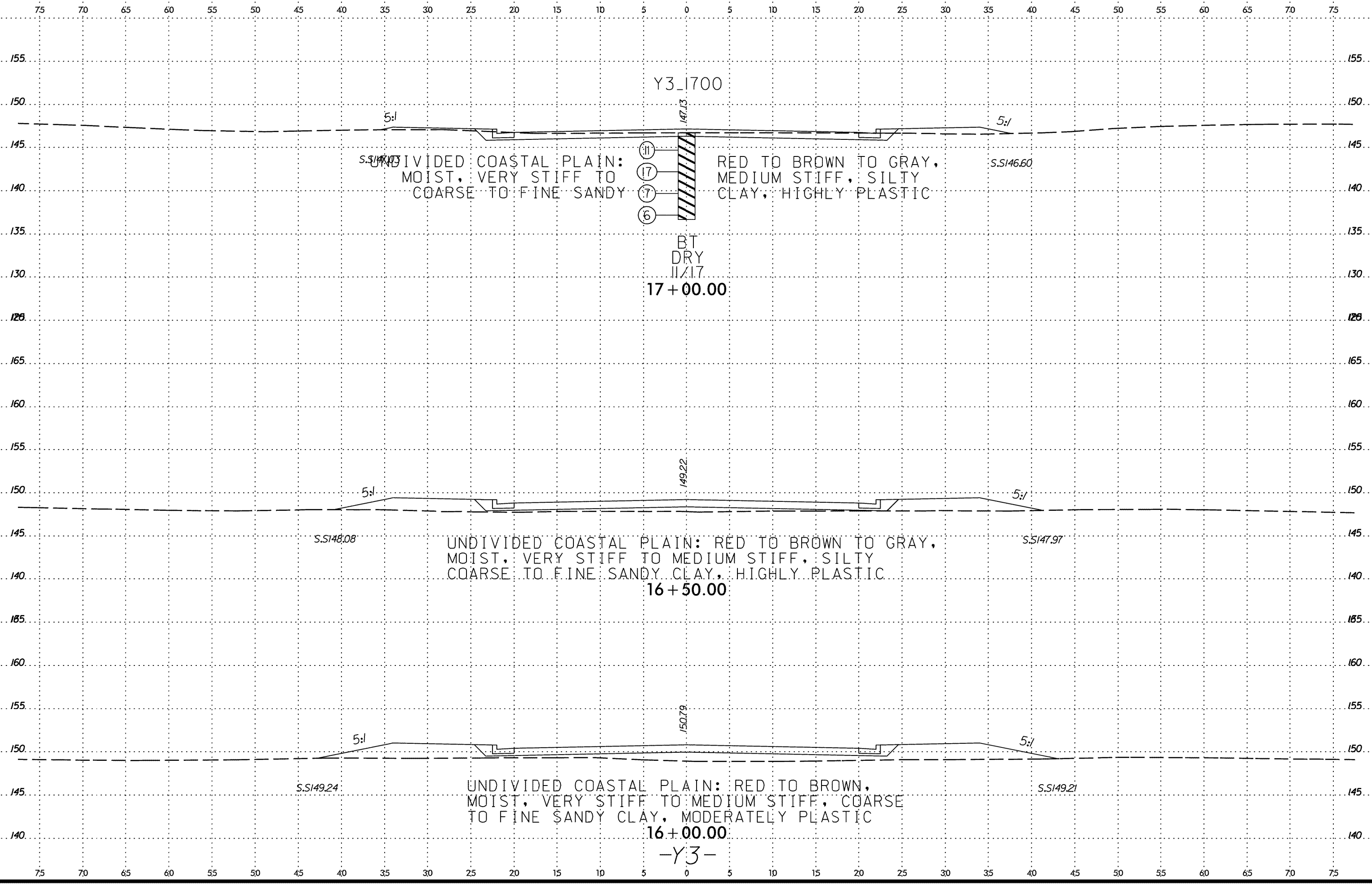
UNDIVIDED COASTAL PLAIN: RED TO BROWN,
 MOIST, VERY STIFF TO MEDIUM STIFF, COARSE
 TO FINE SANDY CLAY, MODERATELY PLASTIC
 15 + 00.00

UNDIVIDED COASTAL PLAIN: RED TO BROWN,
 MOIST, VERY STIFF TO MEDIUM STIFF, COARSE
 TO FINE SANDY CLAY, MODERATELY PLASTIC
 14 + 50.00

UNDIVIDED COASTAL PLAIN: BROWN TO RED, DRY TO MOIST, VERY
 STIFF, COARSE TO FINE SANDY CLAY, MODERATELY PLASTIC
 14 + 00.00
 -Y3-

 SYSTEM TIME *****

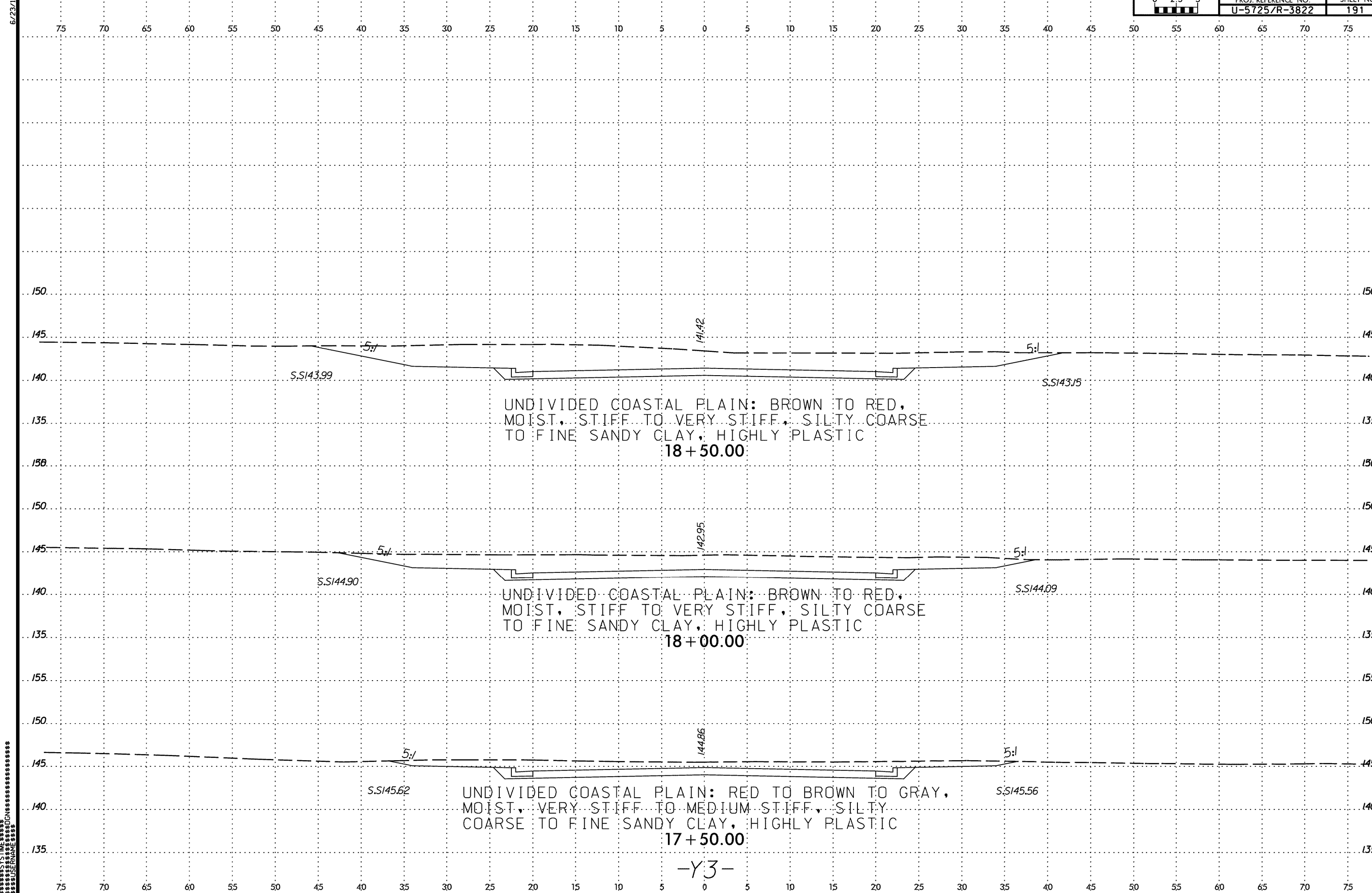
 USER NAME *****



 SYSTEM TIME *****

 USER NAME *****

-Y3-

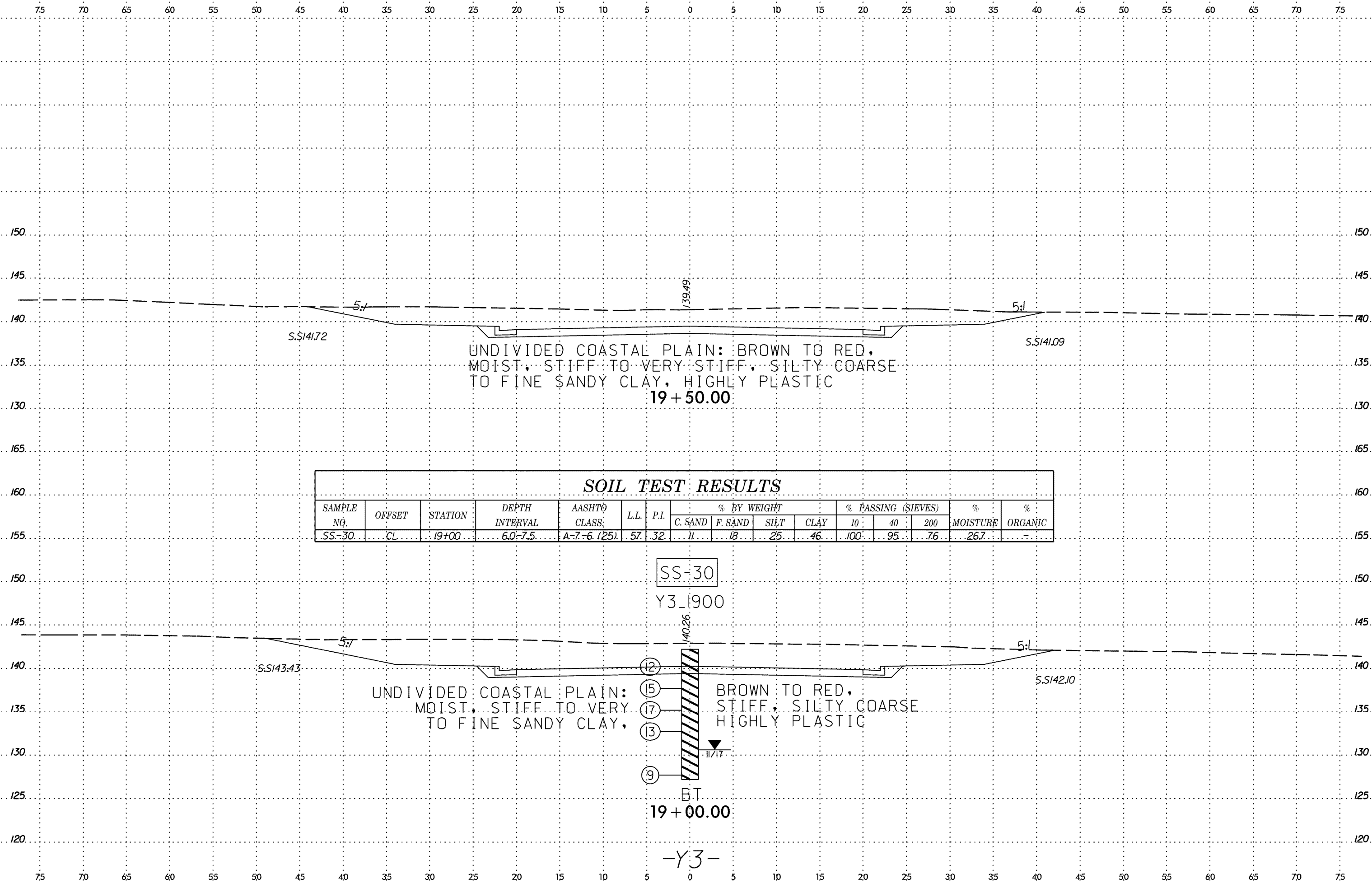


UNDIVIDED COASTAL PLAIN: BROWN TO RED,
MOIST, STIFF TO VERY STIFF, SILTY COARSE
TO FINE SANDY CLAY, HIGHLY PLASTIC
18+50.00

UNDIVIDED COASTAL PLAIN: BROWN TO RED,
MOIST, STIFF TO VERY STIFF, SILTY COARSE
TO FINE SANDY CLAY, HIGHLY PLASTIC
18+00.00

UNDIVIDED COASTAL PLAIN: RED TO BROWN TO GRAY,
MOIST, VERY STIFF TO MEDIUM STIFF, SILTY
COARSE TO FINE SANDY CLAY, HIGHLY PLASTIC
17+50.00

-Y3-



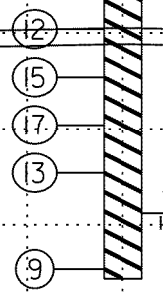
UNDIVIDED COASTAL PLAIN: BROWN TO RED,
MOIST, STIFF TO VERY STIFF, SILTY COARSE
TO FINE SANDY CLAY, HIGHLY PLASTIC
19+50.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-30	CL	19+00	6.0-7.5	A-7-6 (25)	57	32	11	18	25	46	100	95	76	26.7	-

SS-30

Y3_1900

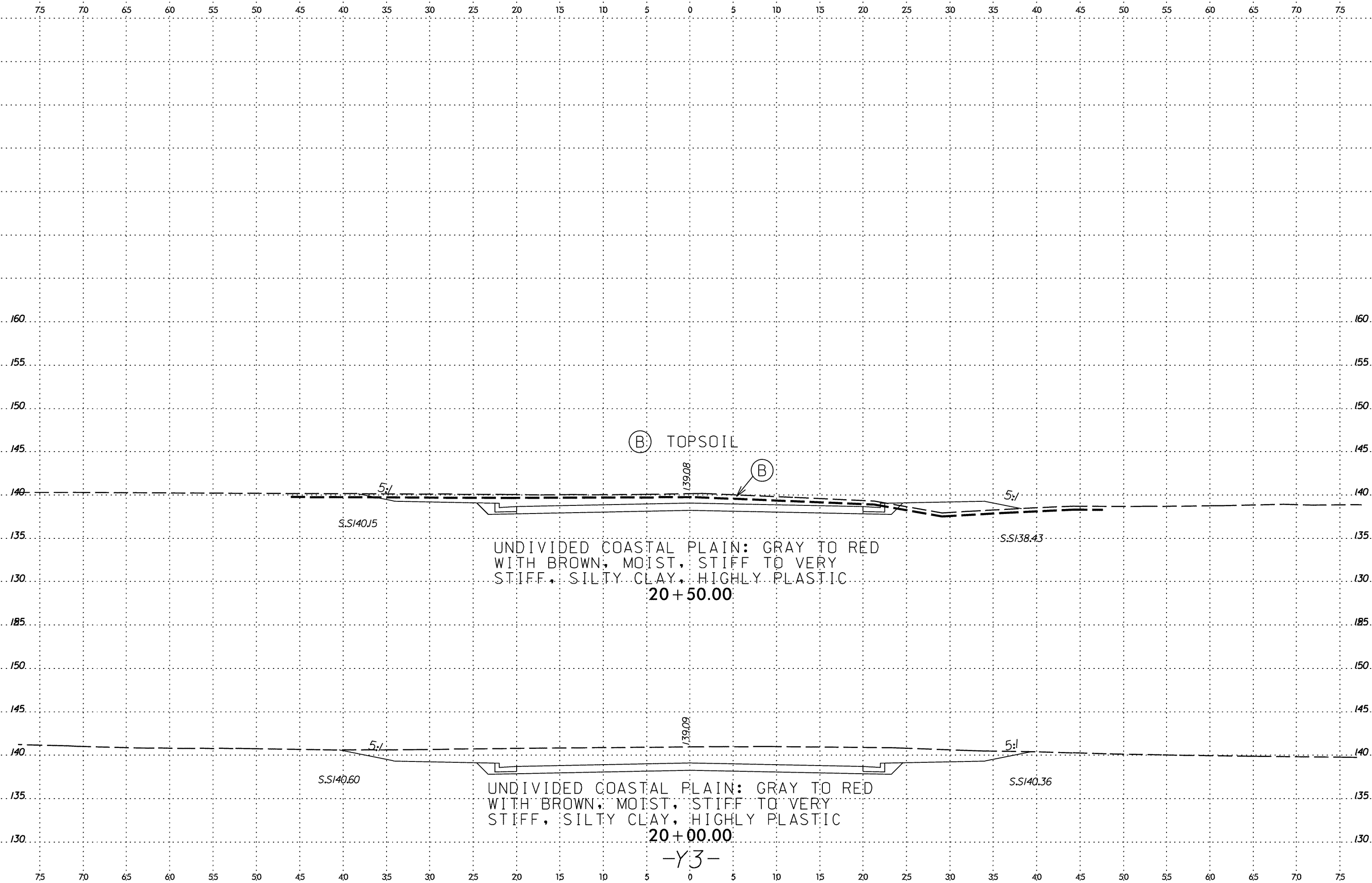
UNDIVIDED COASTAL PLAIN:
MOIST, STIFF TO VERY
TO FINE SANDY CLAY,
BROWN TO RED,
STIFF, SILTY COARSE
HIGHLY PLASTIC



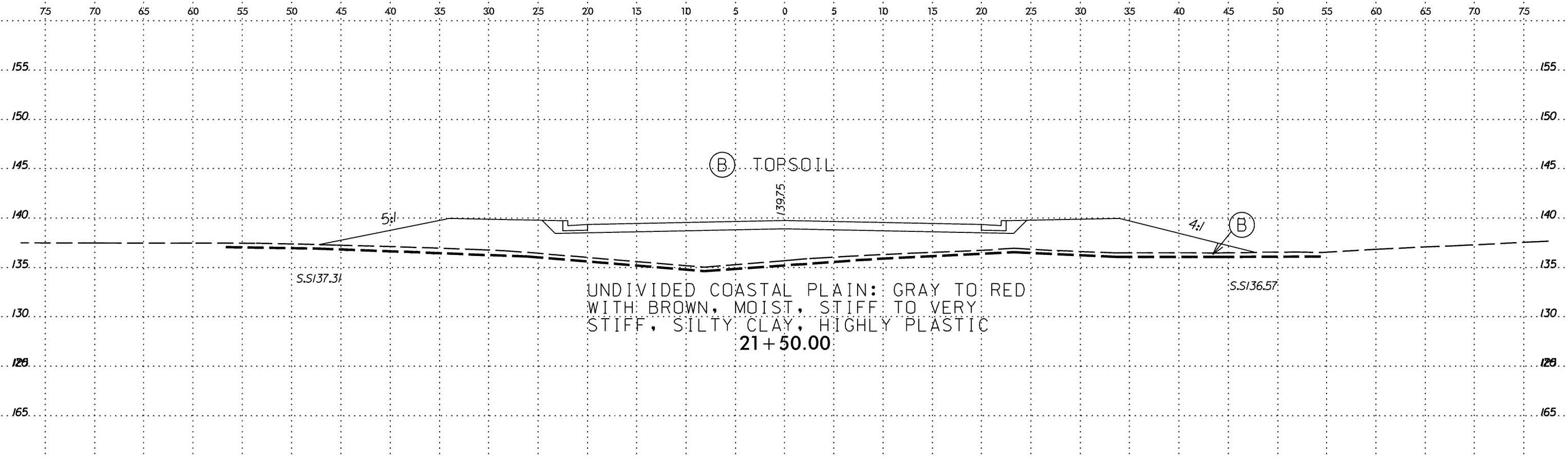
BT
19+00.00

-Y3-

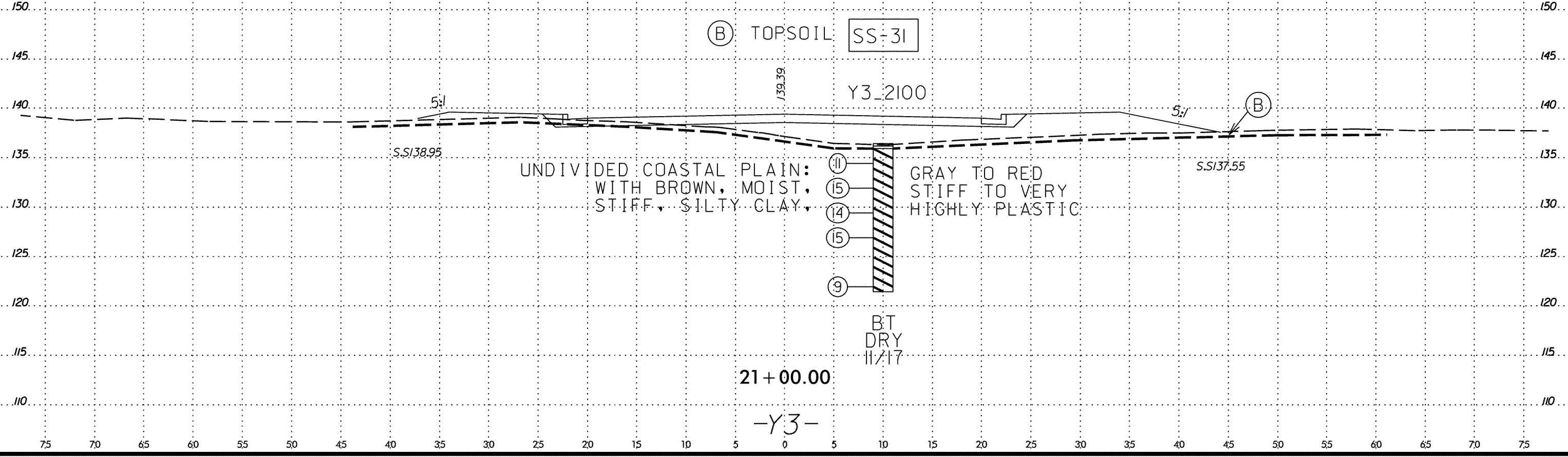
SYSTEM TIME
DATE AND TIME
OPERATOR
SUBSYSTEM



SYSTEM TIME
 DESIGN
 SUBMITTER



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-31	CL	21+00	8.5+10.0	A-7-5 (52)	77	45	0	5	32	63	100	100	97	30.9	-

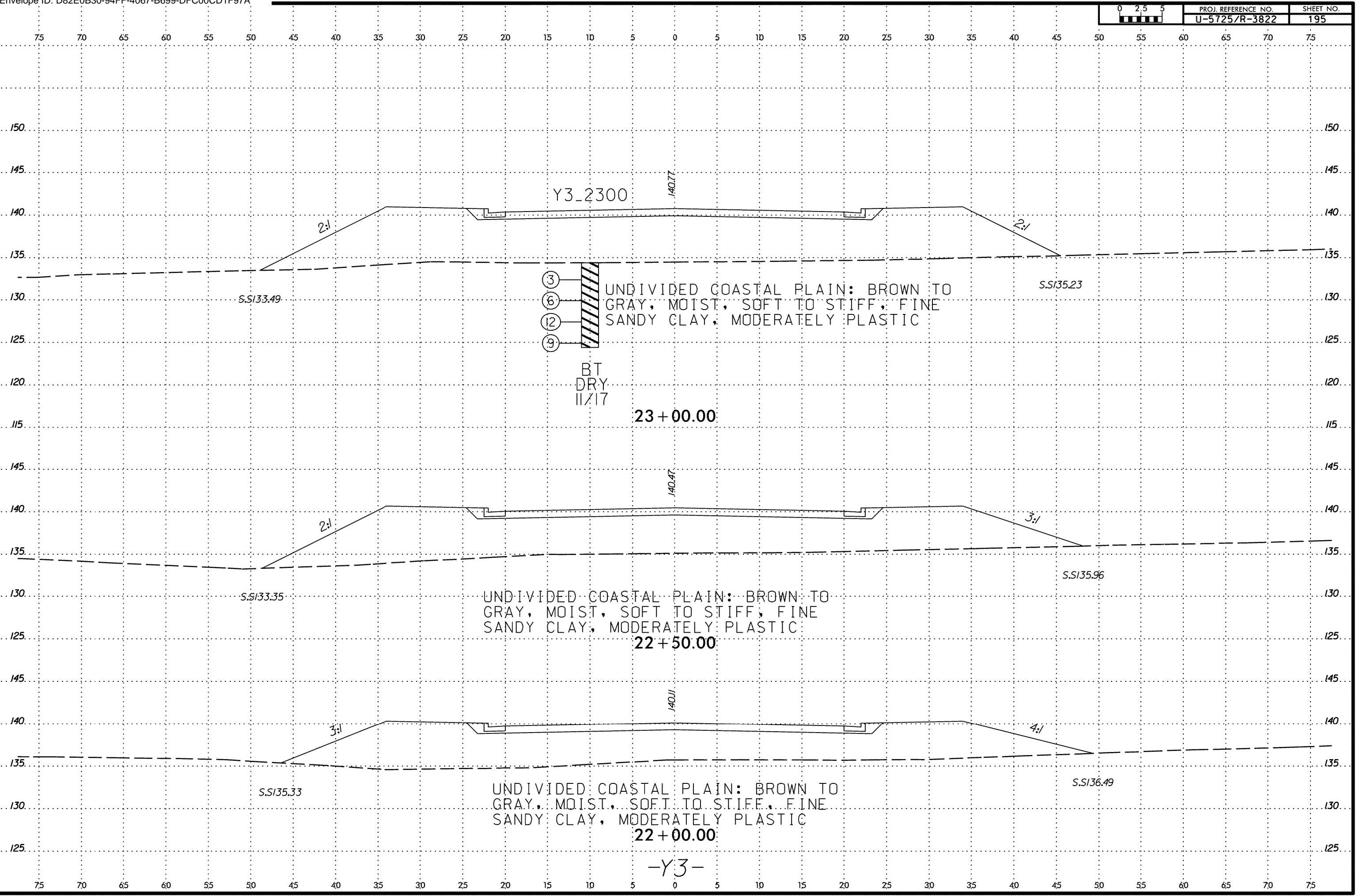


 SYSTEM TIME *****

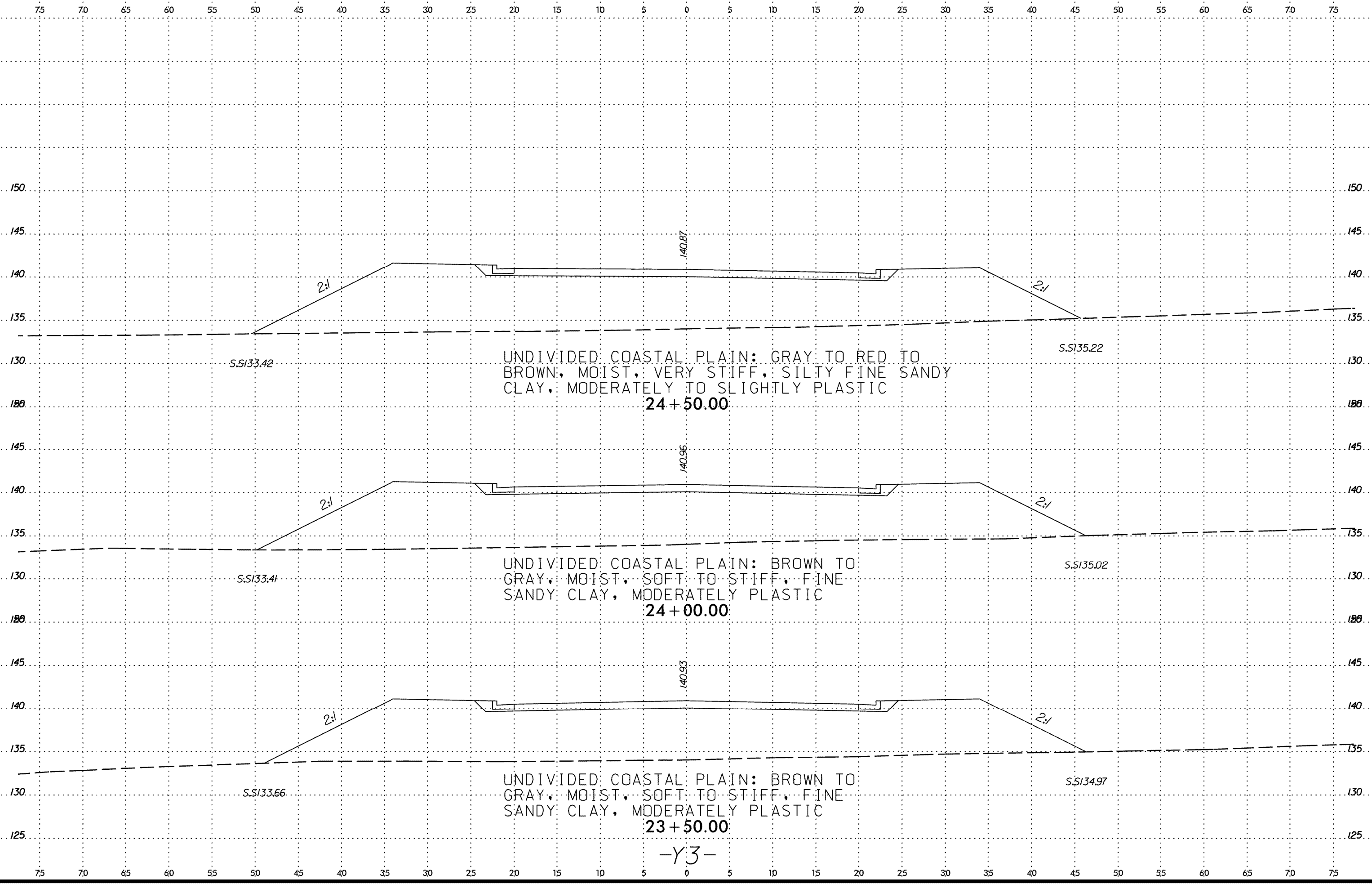
 SECTION *****

 USER NAME *****

6/23/16
SYSTEMS
SUBNAME

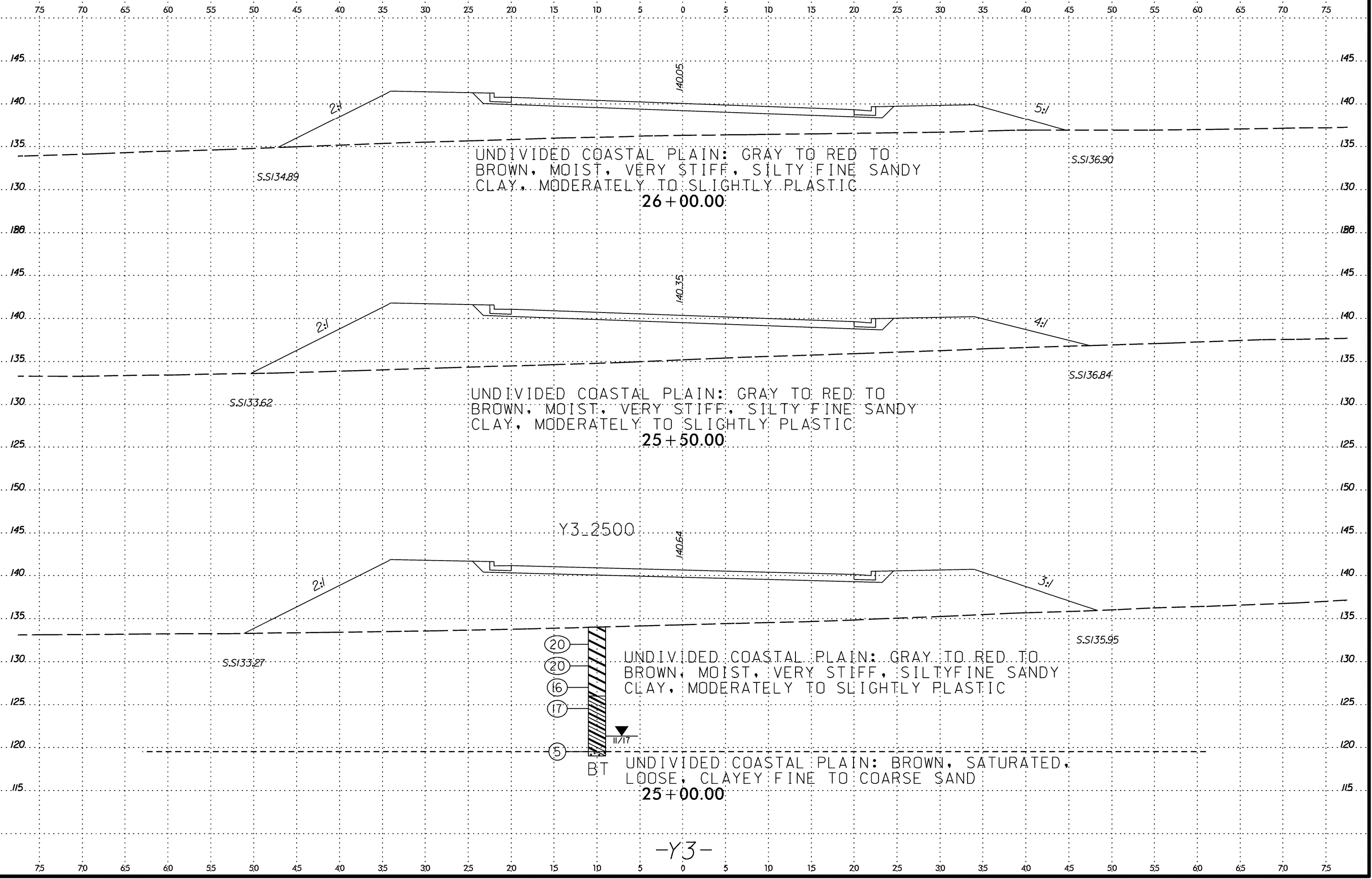


-Y3-



6/23/16
 SYSTEM
 DATE
 TIME
 USER
 NAME

-Y3-

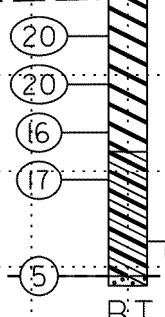


UNDIVIDED COASTAL PLAIN: GRAY TO RED TO BROWN, MOIST, VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY TO SLIGHTLY PLASTIC
26+00.00

UNDIVIDED COASTAL PLAIN: GRAY TO RED TO BROWN, MOIST, VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY TO SLIGHTLY PLASTIC
25+50.00

UNDIVIDED COASTAL PLAIN: GRAY TO RED TO BROWN, MOIST, VERY STIFF, SILTY FINE SANDY CLAY, MODERATELY TO SLIGHTLY PLASTIC

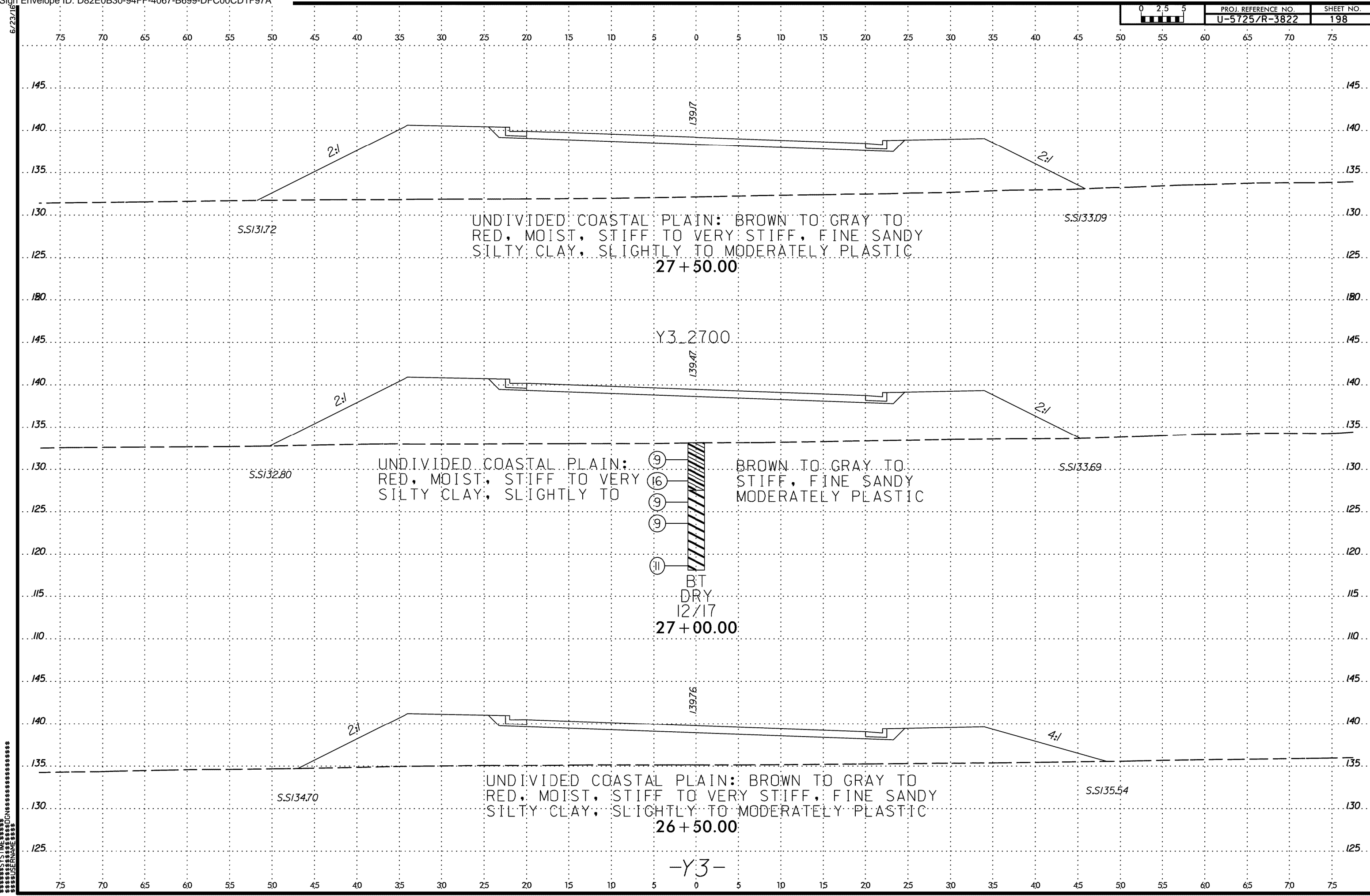
UNDIVIDED COASTAL PLAIN: BROWN, SATURATED, LOOSE, CLAYEY FINE TO COARSE SAND
25+00.00



BT

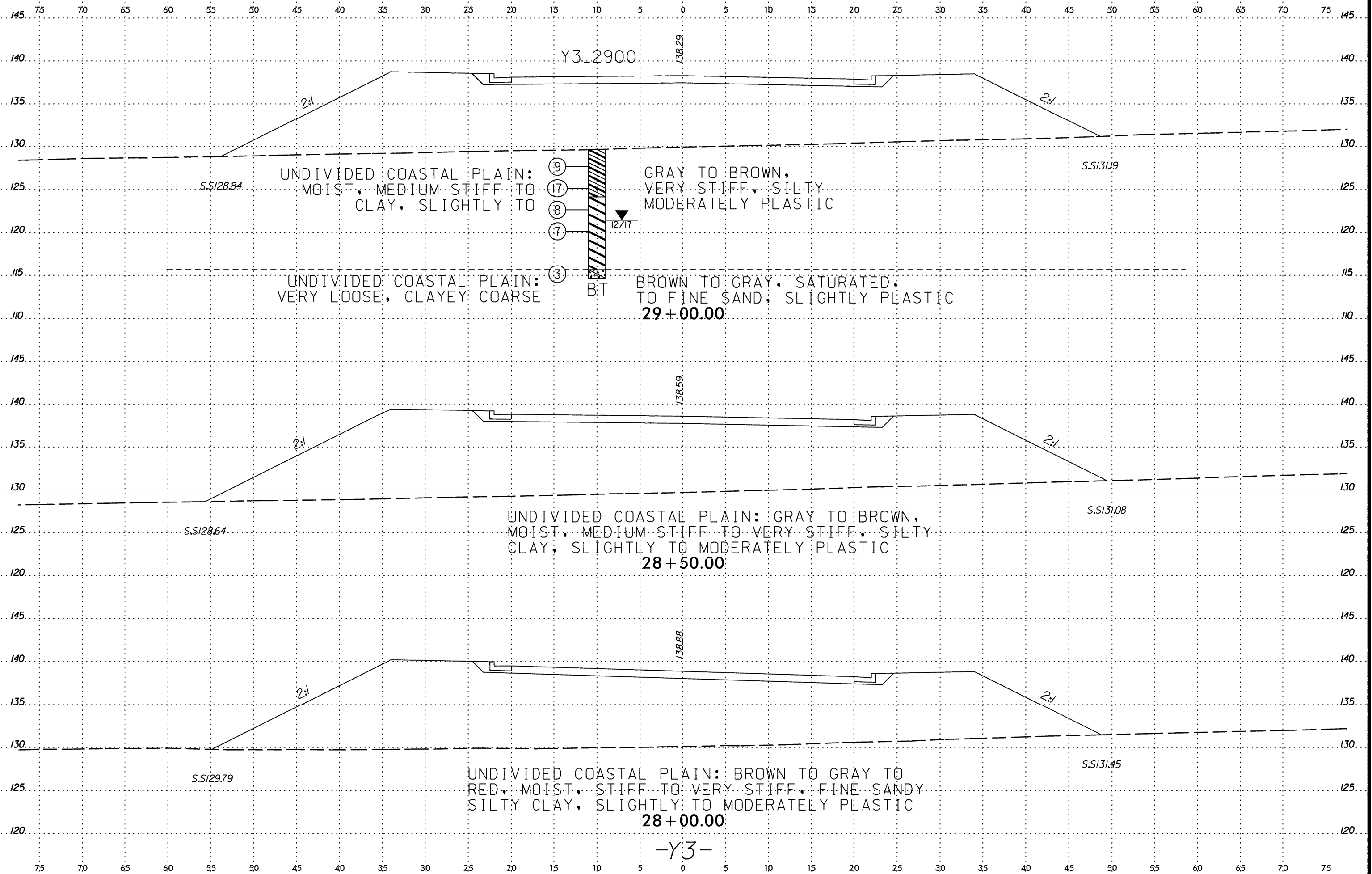
-Y3-

SYSTEM TIME
DATE
USER NAME



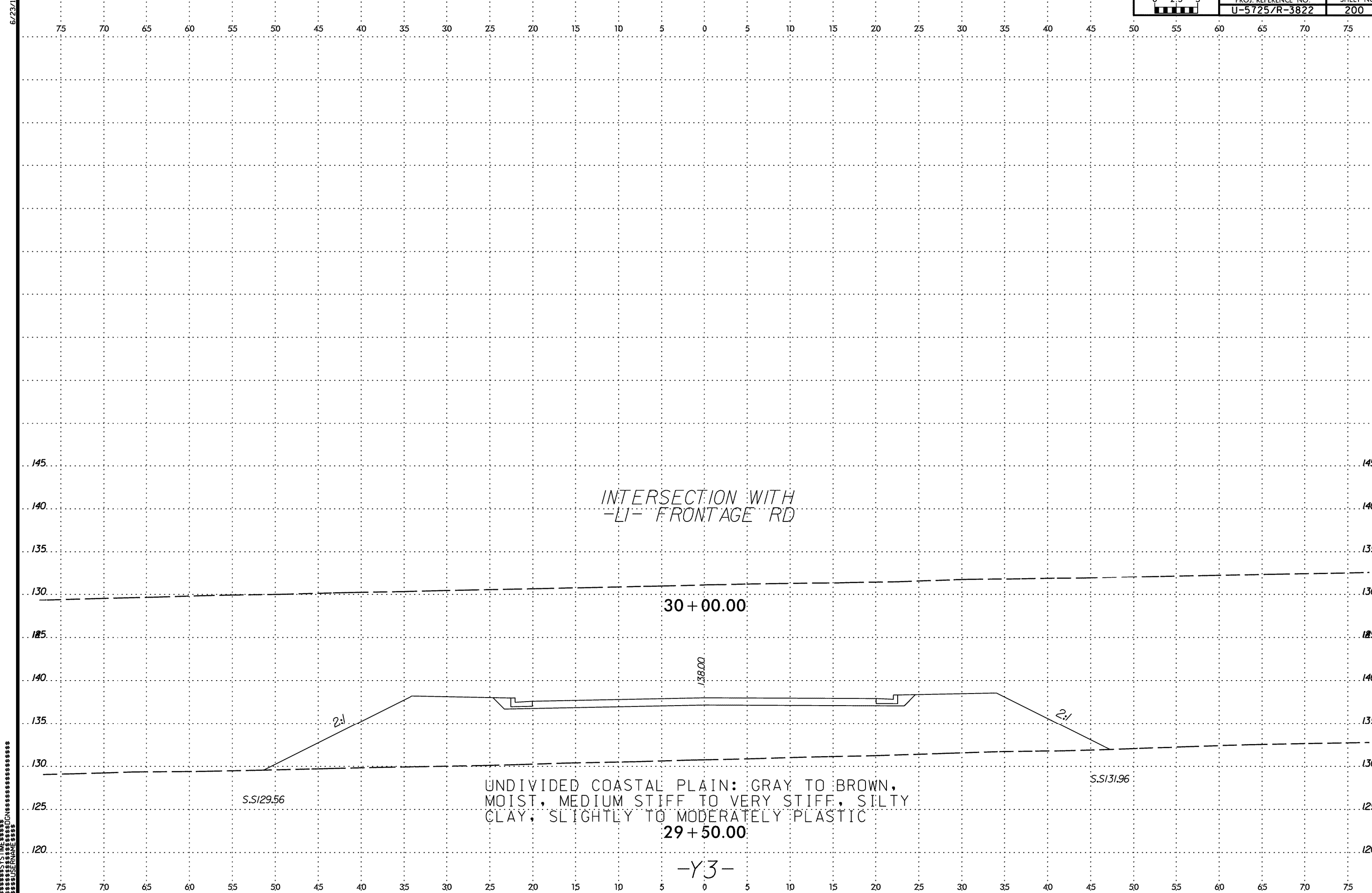
 SYSTEM TIME *****

 USER NAME *****



-Y3-

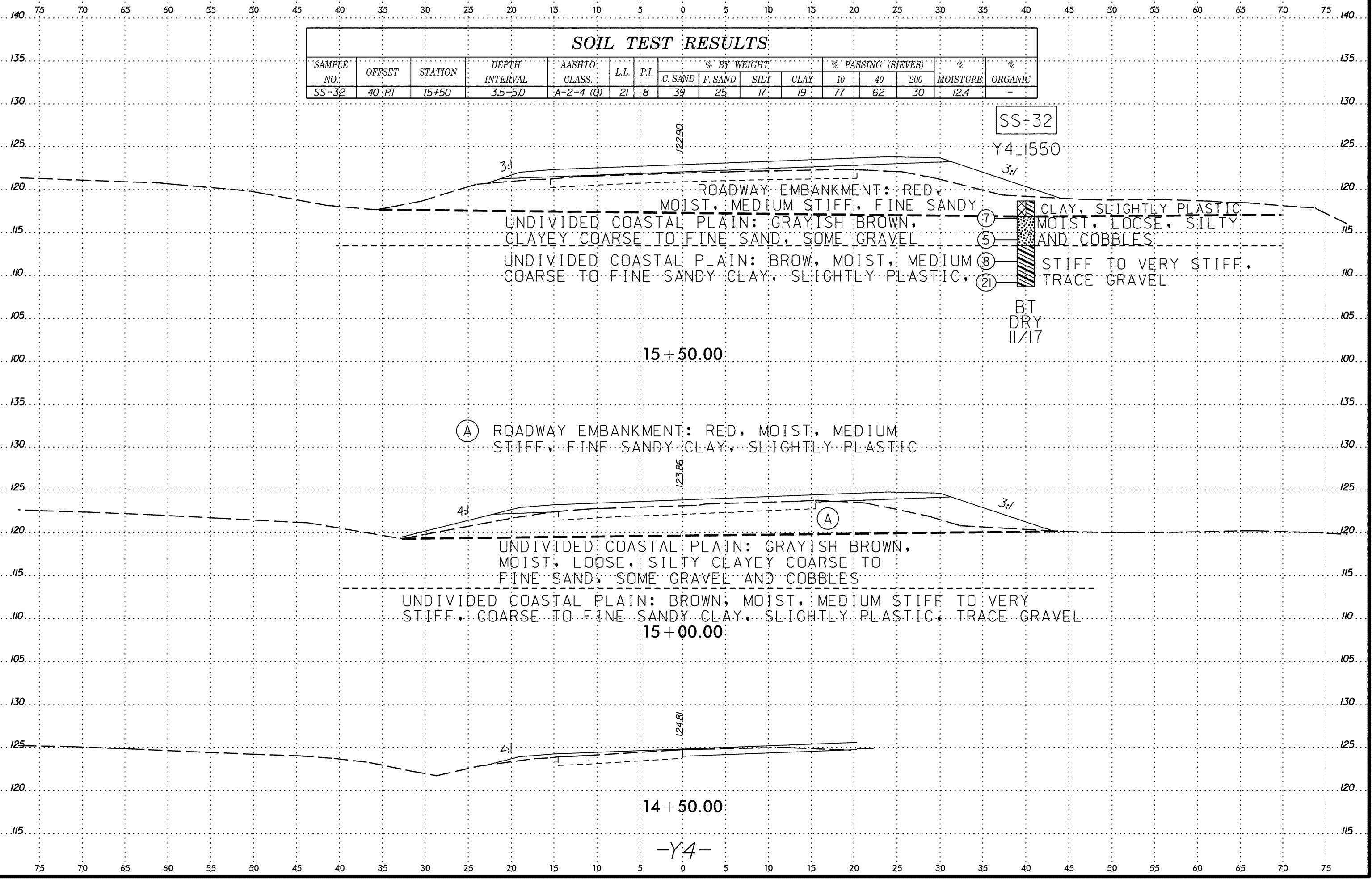
SYSTEM TIME
DATE
USER NAME



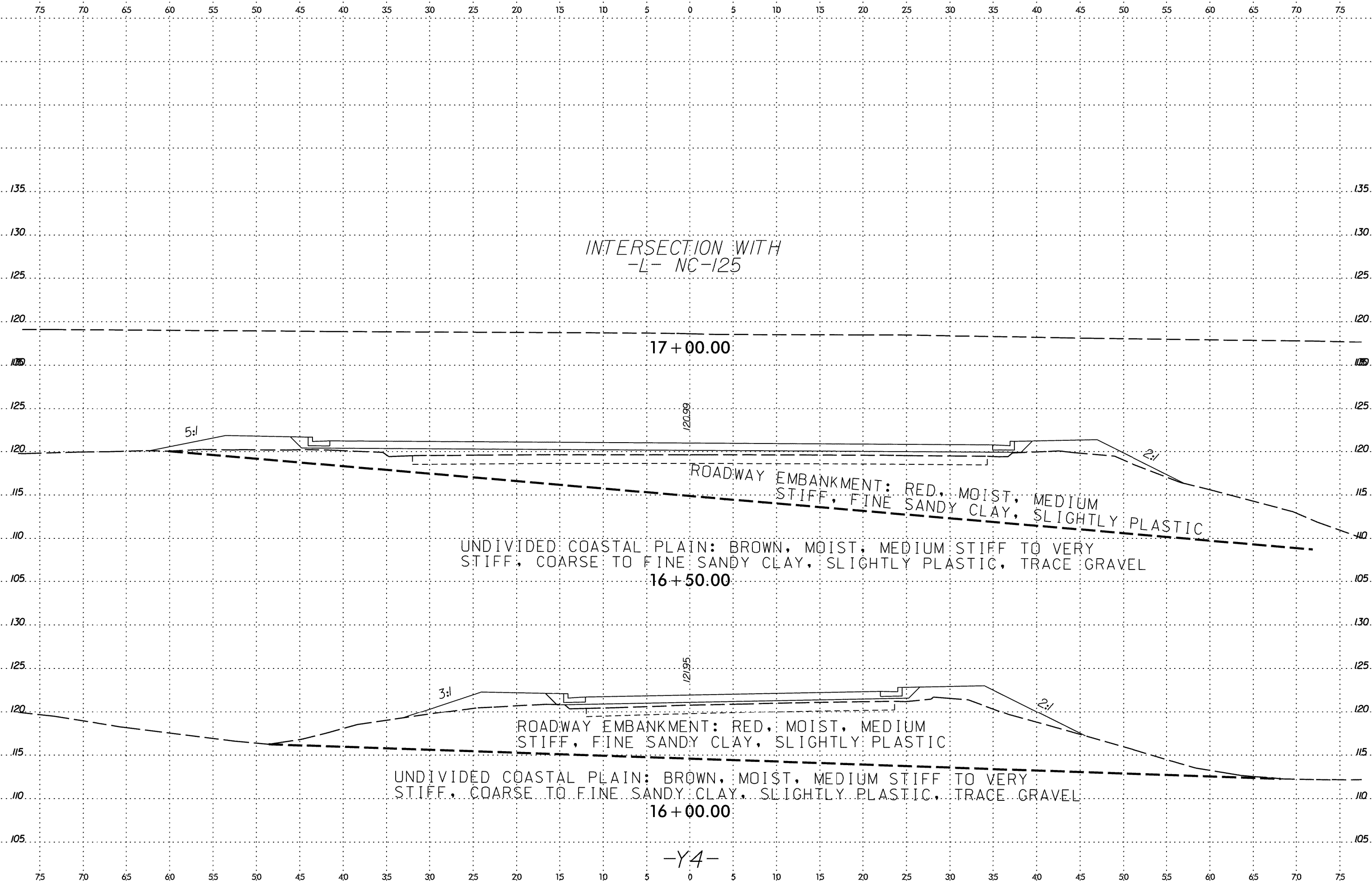
SYSTEM TIME

 USER NAME

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-32	40 RT	15+50	3.5-5.0	A-2-4 (0)	21	8	39	25	17	19	77	62	30	12.4	-



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 SUBUSER: [unreadable]



INTERSECTION WITH
-L- NC-125

17+00.00

120.99

ROADWAY EMBANKMENT: RED, MOIST, MEDIUM STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN, MOIST, MEDIUM STIFF TO VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC, TRACE GRAVEL

16+50.00

121.95

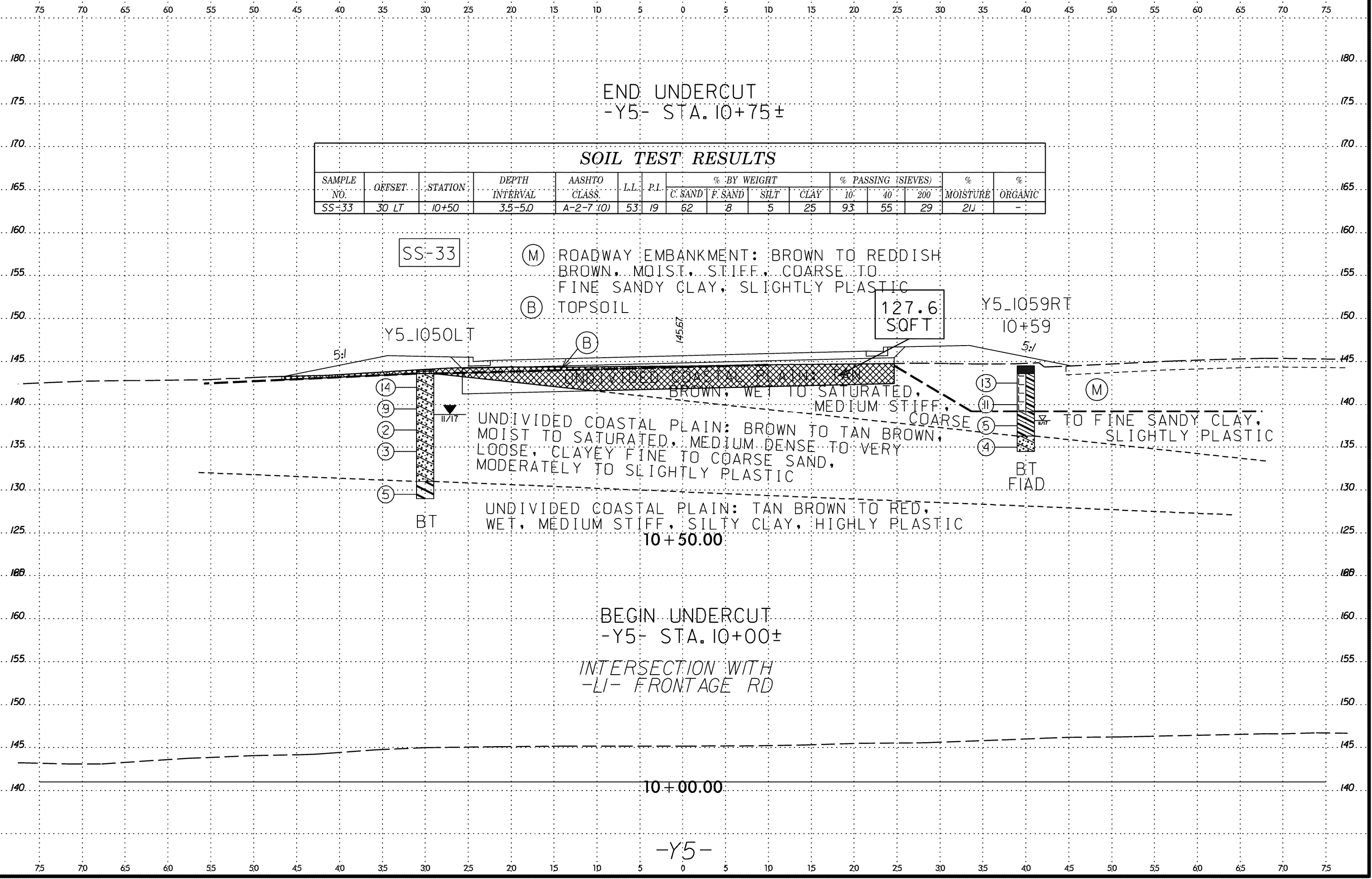
ROADWAY EMBANKMENT: RED, MOIST, MEDIUM STIFF, FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: BROWN, MOIST, MEDIUM STIFF TO VERY STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC, TRACE GRAVEL

16+00.00

-Y4-

6/23/16
SYSTEM TIME
OPERATOR
SUBURNAME



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.L.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-33	30 LT	10+50	3.5-5.0	A-2-7 (10)	53	19	62	8	5	25	93	55	29	21	-

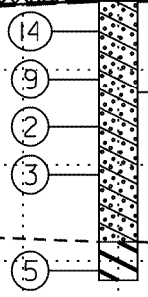
SS-33

- (M) ROADWAY EMBANKMENT: BROWN TO REDDISH BROWN, MOIST, STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC
- (B) TOPSOIL

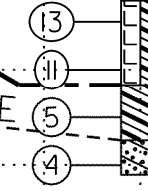
127.6 SQFT

Y5_1059RT 10+59

Y5_1050LT



UNDIVIDED COASTAL PLAIN: BROWN TO TAN BROWN, MOIST TO SATURATED, MEDIUM DENSE TO VERY LOOSE, CLAYEY FINE TO COARSE SAND, MODERATELY TO SLIGHTLY PLASTIC



TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: TAN BROWN TO RED, WET, MEDIUM STIFF, SILTY CLAY, HIGHLY PLASTIC

10+50.00

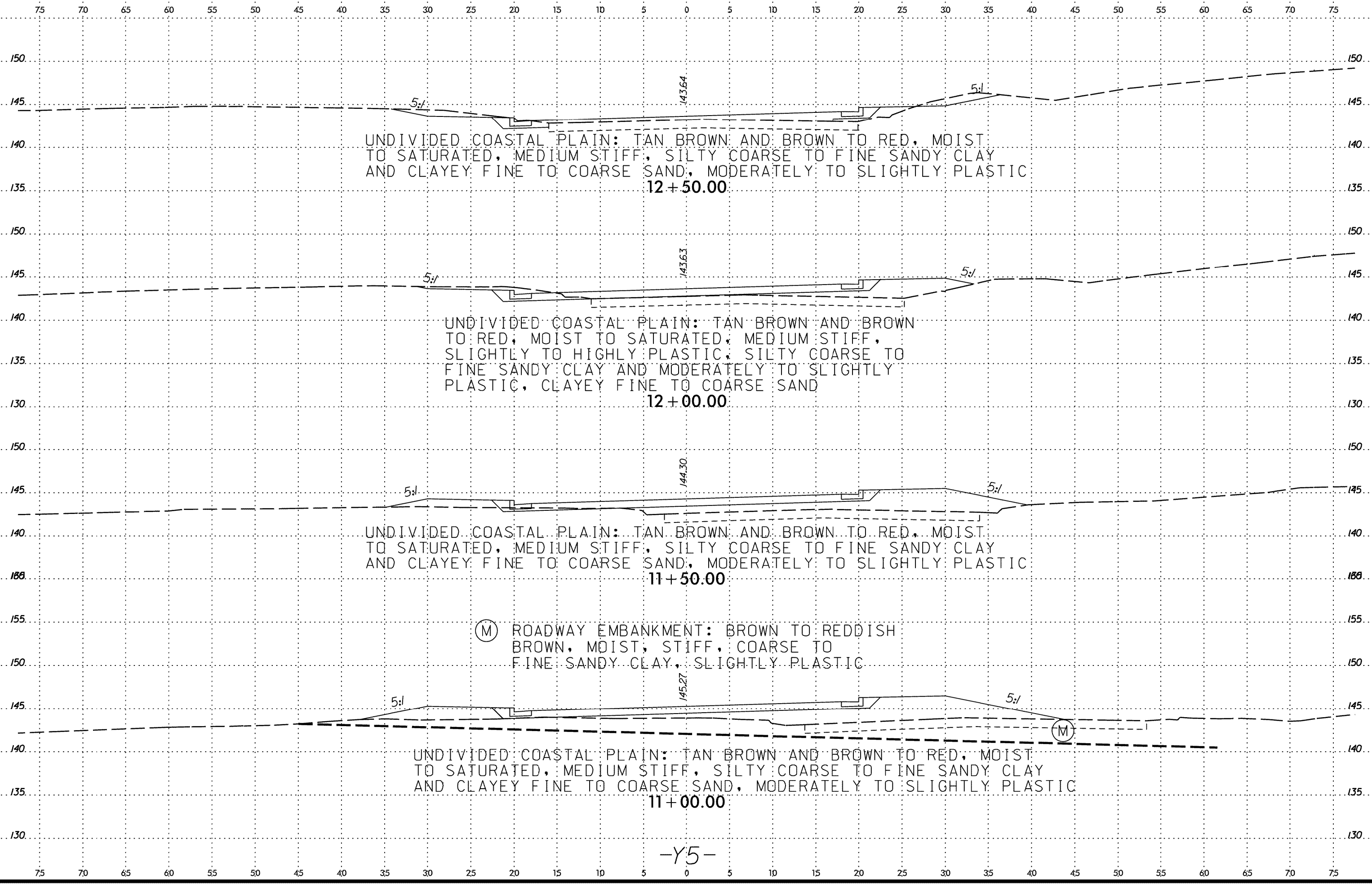
BEGIN UNDERCUT -Y5- STA. 10+00±

INTERSECTION WITH -LI- FRONTAGE RD

10+00.00

-Y5-

SYSTEM TIME: 6/23/16 11:17 AM
 USER: JGIBSON
 SUBSYSTEM: 11/17

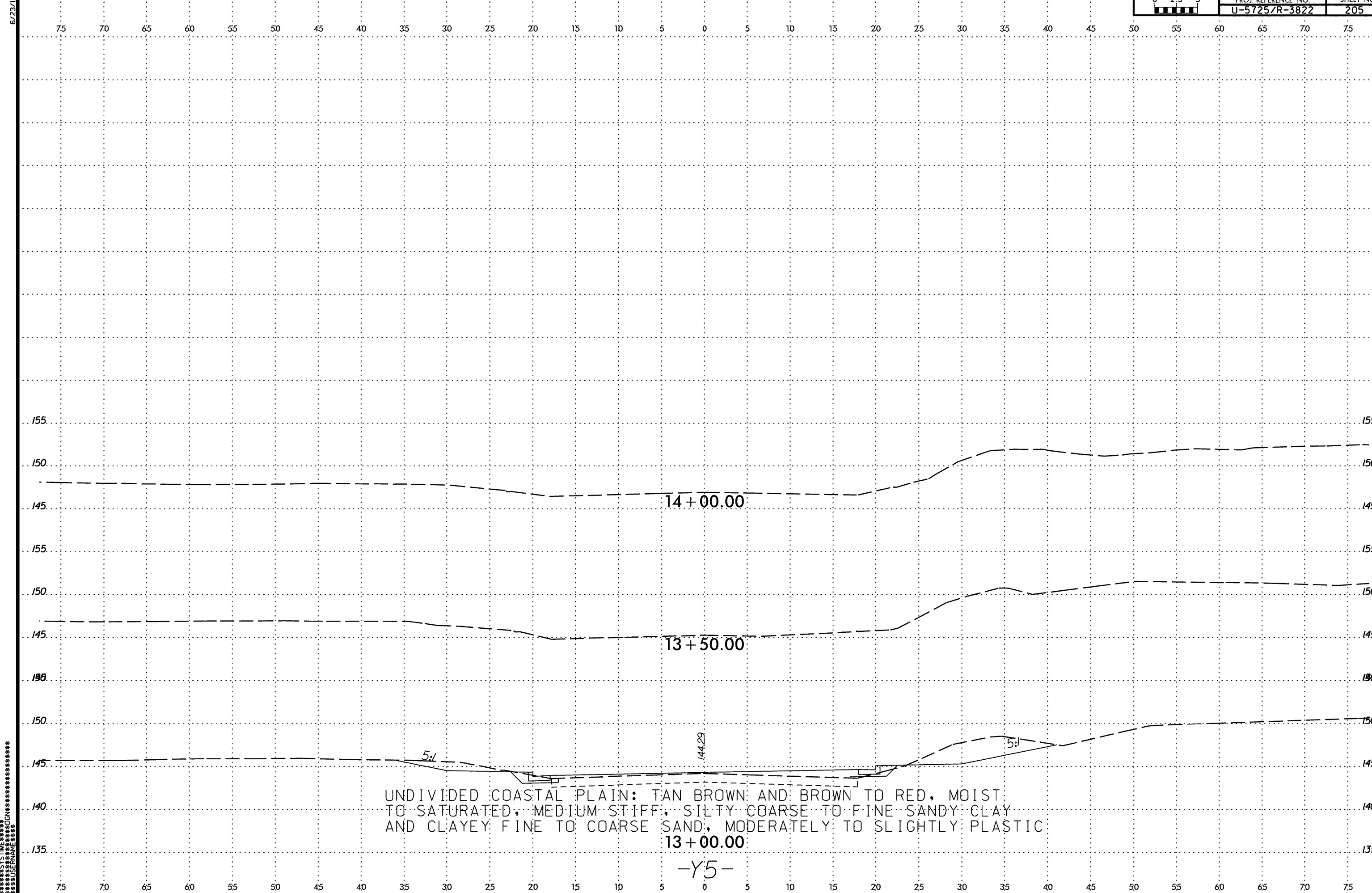


-Y5-

6/23/16

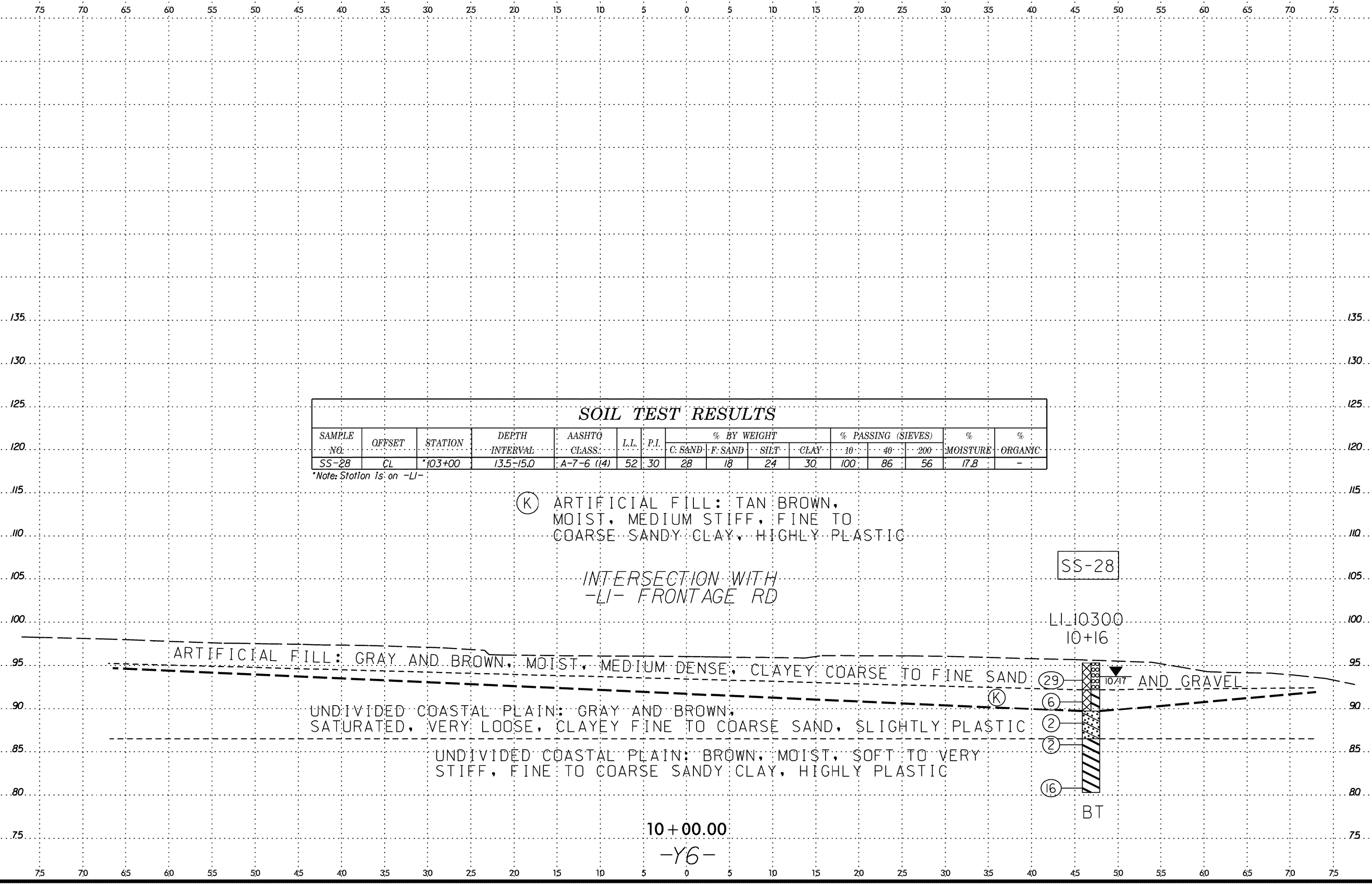
 SYSTEM TIME *****

 USER *****



SYSTEM TIME: 6/23/16
 USER: [unreadable]
 USER NAME: [unreadable]

6/23/16



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-28	CL	*103+00	13.5-15.0	A-7-6 (14)	52	30	28	18	24	30	100	86	56	17.8	-

*Note: Station is on -LI-

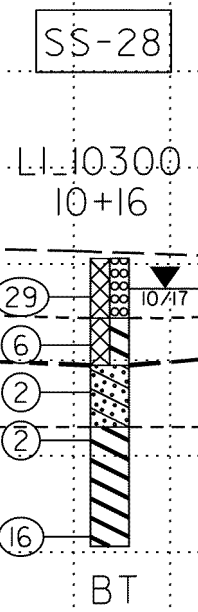
(K) ARTIFICIAL FILL: TAN BROWN, MOIST, MEDIUM STIFF, FINE TO COARSE SANDY CLAY, HIGHLY PLASTIC

INTERSECTION WITH -LI- FRONTAGE RD

ARTIFICIAL FILL: GRAY AND BROWN, MOIST, MEDIUM DENSE, CLAYEY COARSE TO FINE SAND

UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, SATURATED, VERY LOOSE, CLAYEY FINE TO COARSE SAND, SLIGHTLY PLASTIC

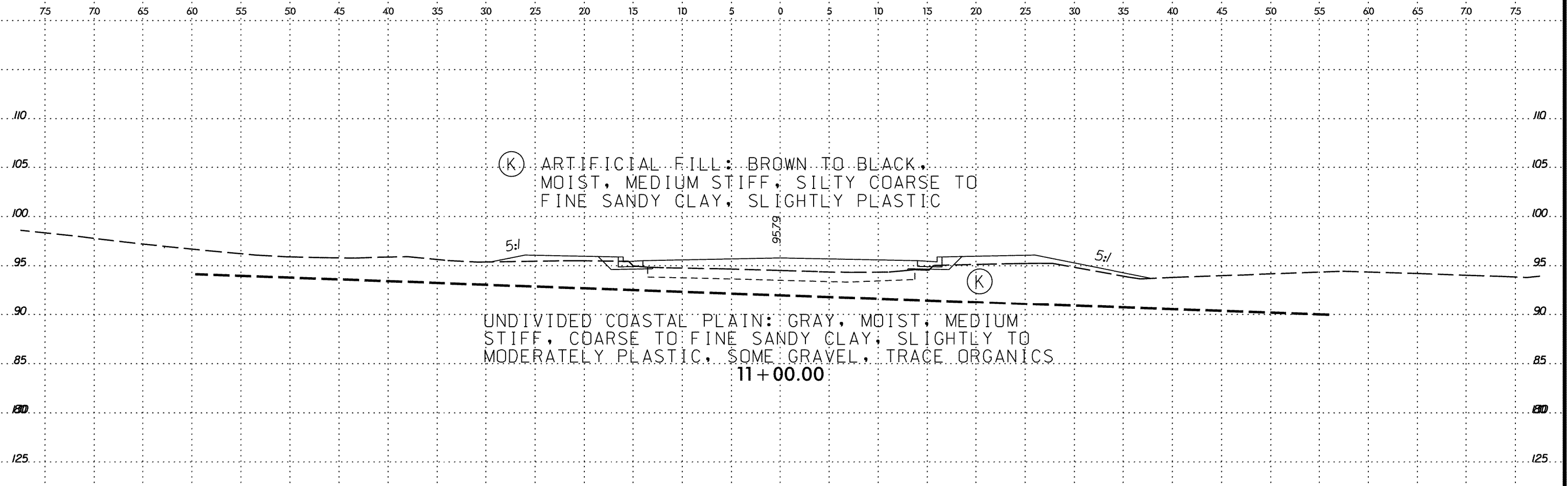
UNDIVIDED COASTAL PLAIN: BROWN, MOIST, SOFT TO VERY STIFF, FINE TO COARSE SANDY CLAY, HIGHLY PLASTIC



10+00.00
-Y6-

SYSTEM TIME *****

USER NAME *****



(K) ARTIFICIAL FILL: BROWN TO BLACK, MOIST, MEDIUM STIFF, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC, SOME GRAVEL, TRACE ORGANICS

11+00.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-34	30 LT	10+50	8.5-10.0	A-7-6 (4)	46	25	52	10	14	24	98	73	39	32	-

SS-34

(K) ARTIFICIAL FILL: BROWN TO BLACK, MOIST, MEDIUM STIFF, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC, MODERATELY ORGANIC

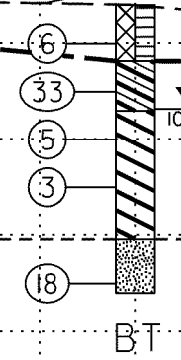
UNDIVIDED COASTAL PLAIN: GRAY, MOIST, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC, SOME GRAVEL, TRACE ORGANICS

RESIDUAL: REDDISH BROWN TO BROWN, MOIST, VERY STIFF, FINE SAND SILT

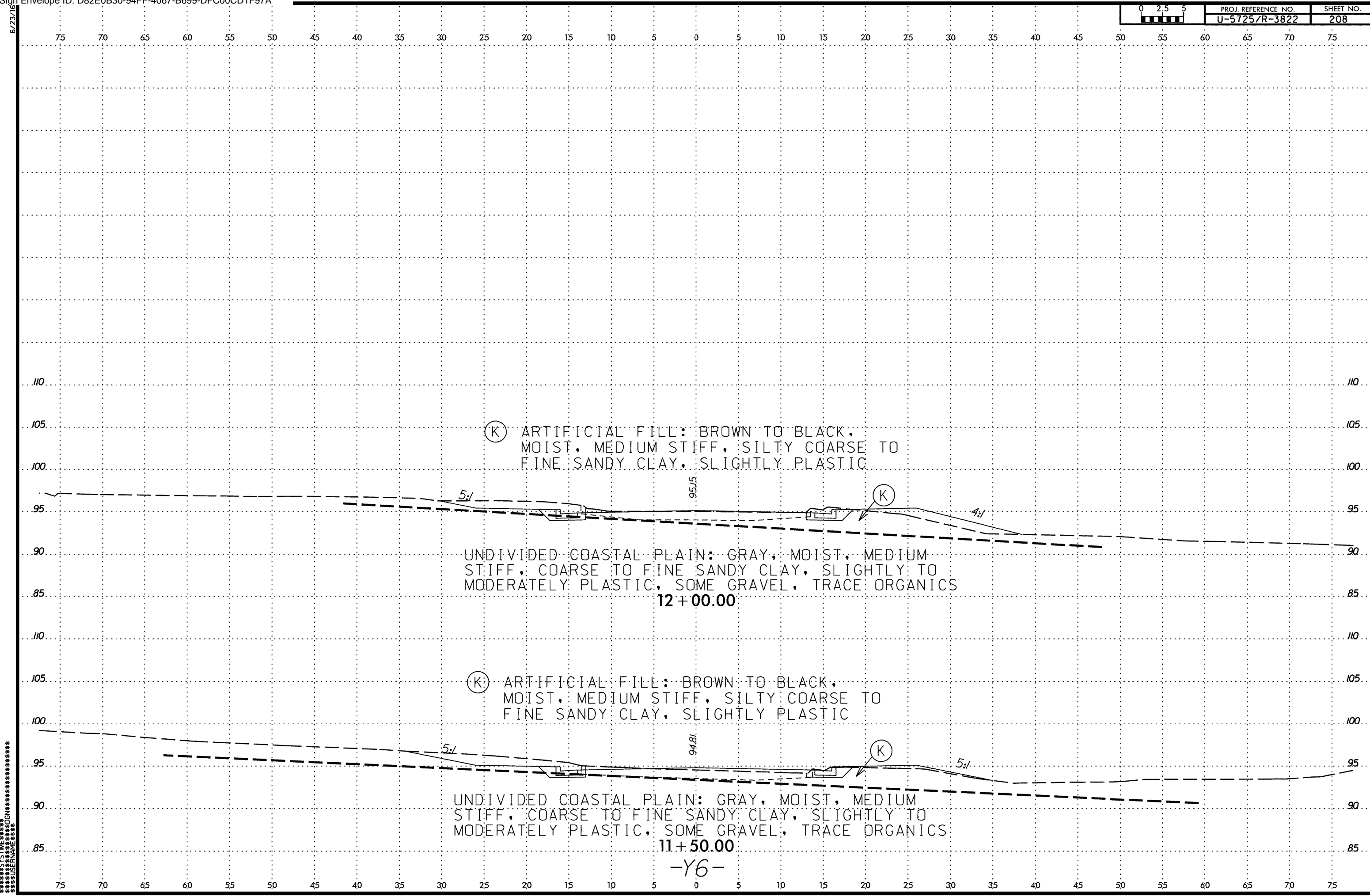
10+50.00

-Y6-

NOTE: BLOW COUNTS INFLUENCED BY GRAVEL



SYSTEM TIME
 USER NAME



(K) ARTIFICIAL FILL: BROWN TO BLACK, MOIST, MEDIUM STIFF, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC, SOME GRAVEL, TRACE ORGANICS
12+00.00

(K) ARTIFICIAL FILL: BROWN TO BLACK, MOIST, MEDIUM STIFF, SILTY COARSE TO FINE SANDY CLAY, SLIGHTLY PLASTIC

UNDIVIDED COASTAL PLAIN: GRAY, MOIST, MEDIUM STIFF, COARSE TO FINE SANDY CLAY, SLIGHTLY TO MODERATELY PLASTIC, SOME GRAVEL, TRACE ORGANICS
11+50.00

-Y6-

SYSTEM TIME
DATE
USER NAME

PROJECT REFERENCE NO.	SHEET NO.
U-5725/R-3822	209

REFERENCE: U-5725/R-3822

PROJECT: 50162 /37765

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

SUBSURFACE INVESTIGATION

**APPENDIX A
BORE LOGS**

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_1700		STATION 17+00		OFFSET 46 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 150.2 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,640		EASTING 2,398,323										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/08/17		COMP. DATE 11/08/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
155																
150	149.2	1.0	1	2	3										150.2	0.0
	146.7	3.5	2	3	2										148.5	1.7
145	144.2	6.0	4	4	4										142.6	7.6
	141.7	8.5	4	5	7										140.2	10.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_1905		STATION 19+05		OFFSET 57 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 152.9 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,820		EASTING 2,398,224										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
155																
	151.9	1.0	5	4	3										152.9	0.0
150	149.4	3.5	3	3	4											
	146.9	6.0	5	6	6										147.4	5.5
145	144.4	8.5	5	6	7										142.9	10.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.	
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)
BORING NO. L_2123		STATION 21+23		OFFSET 45 ft LT		ALIGNMENT -L-	
COLLAR ELEV. 156.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,950		EASTING 2,398,022	
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic			

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
															156.1	0.0
															153.4	0.7
155	155.1	1.0	2	2	3	•							M			
	152.6	3.5	2	3	4	•							SS-3	18%		
	150.1	6.0	4	6	6	•							M		150.6	5.5
	147.6	8.5	4	6	6	•							M		146.1	10.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.	
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)
BORING NO. L_2300		STATION 23+00		OFFSET 20 ft LT		ALIGNMENT -L-	
COLLAR ELEV. 157.0 ft		TOTAL DEPTH 10.0 ft		NORTHING 969,118		EASTING 2,397,952	
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic			

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
															157.0	0.0
155	156.0	1.0	4	7	8	•							M			
	153.5	3.5	4	6	8	•							M			
	151.0	6.0	3	4	5	•							M			
	148.5	8.5	2	3	4	•							M			

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_2500		STATION 25+00		OFFSET 30 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 158.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 969,297		EASTING 2,397,858									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
160															
	157.5	1.0	5	5	6									158.5	0.0
														157.8	0.7
155	155.0	3.5	4	5	7								M	UNDIVIDED COASTAL PLAIN Brown to Tan Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Highly Plastic	
	152.5	6.0	5	7	10								M		
150	150.0	8.5	5	6	7								M		
													M		
														148.5	10.0
Boring Terminated at Elevation 148.5 ft in Undivided Coastal Plain Material: Sandy CLAY															
Cave-In at 6.9'															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_2700		STATION 27+00		OFFSET 20 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 157.9 ft		TOTAL DEPTH 10.0 ft		NORTHING 969,491		EASTING 2,397,801									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
160															
	156.9	1.0	3	7	8									157.9	0.0
														156.7	1.2
155	154.4	3.5	5	7	9								M	UNDIVIDED COASTAL PLAIN Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Highly Plastic	
	151.9	6.0	4	5	7								SS-4	22%	
150	149.4	8.5	3	4	5								M		
													M		
														147.9	10.0
Boring Terminated at Elevation 147.9 ft in Undivided Coastal Plain Material: Sandy CLAY															
Cave-In at 7.5'															

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5			TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.							
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road								GROUND WTR (ft)								
BORING NO. L_2900LT			STATION 29+00			OFFSET 50 ft LT			ALIGNMENT -L-							
COLLAR ELEV. 157.3 ft			TOTAL DEPTH 10.0 ft			NORTHING 969,682			EASTING 2,397,724							
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 11/09/17			COMP. DATE 11/09/17			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
155	156.3	1.0	6	9	12								M		157.3	0.0
	153.8	3.5	4	6	6								M			
	151.3	6.0	3	5	4								M			
150	148.8	8.5	3	3	3								M			
	147.3												M			147.3
Boring Terminated at Elevation 147.3 ft in Undivided Coastal Plain Material: Sandy CLAY																
Cave-In at 8.1'																

WBS 50162.1.1 / 37765.1.5			TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.							
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road								GROUND WTR (ft)								
BORING NO. L_2900RT			STATION 29+00			OFFSET 50 ft RT			ALIGNMENT -L-							
COLLAR ELEV. 154.8 ft			TOTAL DEPTH 10.0 ft			NORTHING 969,701			EASTING 2,397,823							
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 11/09/17			COMP. DATE 11/09/17			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
155																
	153.8	1.0	3	6	6								M			
	151.3	3.5	4	5	6								M			
150	148.8	6.0	3	3	4								M			
	146.3	8.5	3	4	3								M			
145																
Boring Terminated at Elevation 144.8 ft in Undivided Coastal Plain Material: Sandy CLAY																
Cave-In at 8.2'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_3100		STATION 31+00		OFFSET 40 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 156.3 ft		TOTAL DEPTH 10.0 ft		NORTHING 969,886		EASTING 2,397,707										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
155	155.3	1.0	4	4	6										156.3	GROUND SURFACE 0.0
															155.2	1.1' Topsoil 1.1
	152.8	3.5	5	7	13											
150	150.3	6.0	3	3	4											
	147.8	8.5	3	3	3											
															146.3	10.0
Boring Terminated at Elevation 146.3 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.7'																

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_3282		STATION 32+82		OFFSET 53 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 156.4 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,071		EASTING 2,397,792										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
155	155.4	1.0	3	5	7										156.4	GROUND SURFACE 0.0
															155.8	0.2' Asphalt over 0.4' ABC 0.6
	152.9	3.5	7	7	7											
150	150.4	6.0	3	4	5											
	147.9	8.5	3	4	5											
															146.4	10.0
Boring Terminated at Elevation 146.4 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.9'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.																
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)															
BORING NO. L_3500		STATION 35+00		OFFSET 40 ft LT		ALIGNMENT -L-																
COLLAR ELEV. 158.9 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,293		EASTING 2,397,713																
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic																	
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A																
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)							
			0.5ft	0.5ft	0.5ft	0	25	50	75	100												
160															158.9	0.0						
	157.9	1.0	7	8	9									D D SS-5 23% M	UNDIVIDED COASTAL PLAIN Brown and Gray to Red, Very Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic Gray to Red, Stiff to Very Stiff, Fine Sandy CLAY, Highly Plastic Boring Terminated at Elevation 148.9 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.9'							
155	155.4	3.5	6	10	13																153.3	5.8
	152.9	6.0	5	8	11																	
150	150.4	8.5	4	7	8																148.9	10.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.																
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)															
BORING NO. L_3699		STATION 36+99		OFFSET CL		ALIGNMENT -L-																
COLLAR ELEV. 163.4 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,485		EASTING 2,397,783																
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic																	
DRILLER Meatyard, C.		START DATE 11/10/17		COMP. DATE 11/10/17		SURFACE WATER DEPTH N/A																
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)							
			0.5ft	0.5ft	0.5ft	0	25	50	75	100												
165															163.4	0.0						
	162.4	1.0	5	6	7									D D M M	UNDIVIDED COASTAL PLAIN Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Moderately Plastic Brown to Red to Gray, Stiff to Very Stiff, Fine Sandy CLAY, Moderately Plastic Boring Terminated at Elevation 153.4 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.5'							
160	159.9	3.5	8	8	9																157.6	5.8
	157.4	6.0	6	7	8																	
155	154.9	8.5	5	7	9																153.4	10.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_3900		STATION 39+00		OFFSET 20 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 164.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,687		EASTING 2,397,798										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/10/17		COMP. DATE 11/10/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
165														164.5	0.0	GROUND SURFACE
163.5	163.5	1.0	6	9	9									163.5		UNDIVIDED COASTAL PLAIN Brown, Very Stiff, Coarse to Fine Sandy CLAY, Moderately Plastic
161.0	161.0	3.5	8	8	9									161.0		
158.5	158.5	6.0	7	9	13									158.5		
156.0	156.0	8.5	7	10	14									156.0		
														159.3	5.2	Brown to Red to Gray, Very Stiff, Fine Sandy CLAY, Moderately Plastic
														154.5	10.0	Boring Terminated at Elevation 154.5 ft in Undivided Coastal Plain Material: Sandy CLAY
																Cave-In at 7.6'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_4100		STATION 41+00		OFFSET 34 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 164.6 ft		TOTAL DEPTH 15.0 ft		NORTHING 970,875		EASTING 2,397,885										
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 02/11/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Davis, S.		START DATE 11/16/17		COMP. DATE 11/16/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
165														164.6	0.0	GROUND SURFACE
														164.1	0.5	0.5' Asphalt
														161.1	3.5	ROADWAY EMBANKMENT Brown Coarse to Fine SAND
														161.1	3.5	UNDIVIDED COASTAL PLAIN Red to Brown, Stiff to Very Stiff, Fine Sandy CLAY, Moderately Plastic
														156.1	8.5	Boring Terminated at Elevation 154.5 ft in Undivided Coastal Plain Material: Sandy CLAY
														152.0	12.6	Brown, Loose, Clayey Coarse to Fine SAND, Trace Silt, Slightly Plastic
														149.6	15.0	Boring Terminated at Elevation 149.6 ft in Undivided Coastal Plain Material: Clayey SAND
																Cave-In at 11.2'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_4300		STATION 43+00		OFFSET 20 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 166.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,081		EASTING 2,397,866									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 11/10/17		COMP. DATE 11/10/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
170															
165	165.2	1.0	6	11	13									166.2	0.0
	162.7	3.5	10	13	14										
160	160.2	6.0	8	21	22										
	157.7	8.5	7	19	20										
155	152.7	13.5	3	3	4									155.0	11.2
														151.2	15.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_4500		STATION 45+00		OFFSET 29 ft RT		ALIGNMENT -L-									
COLLAR ELEV. 162.4 ft		TOTAL DEPTH 10.0 ft		NORTHING 971,269		EASTING 2,397,949									
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 02/11/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Davis, S.		START DATE 11/16/17		COMP. DATE 11/16/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
165															
	161.4	1.0	4	3	1									162.4	0.0
160	158.9	3.5	4	5	8									159.9	2.5
155	153.9	8.5	4	4	5									152.4	10.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_4676		STATION 46+76		OFFSET 30 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 160.7 ft		TOTAL DEPTH 10.0 ft		NORTHING 971,453		EASTING 2,397,921									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/20/17		COMP. DATE 12/20/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
165															
160	159.7	1.0	4	8	10							D	UNDIVIDED COASTAL PLAIN Red to Gray, Very Stiff to Hard, Coarse to Fine Sandy Silty CLAY, Moderately Plastic	0.0	
	157.2	3.5	8	14	19							D			
155	154.7	6.0	6	11	14							D			
	152.2	8.5	5	6	6							D	Tan Brown to Red, Medium Dense, Silty Clayey Coarse to Fine SAND, Slightly Plastic	7.9	
													Boring Terminated at Elevation 150.7 ft in Undivided Coastal Plain Material: Clayey SAND	10.0	
													Cave-In at 6.0'		

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_4900		STATION 49+00		OFFSET 40 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 153.9 ft		TOTAL DEPTH 20.0 ft		NORTHING 971,676		EASTING 2,397,950									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/13/17		COMP. DATE 11/13/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
155															
	152.9	1.0	5	6	10							D	GROUND SURFACE	0.0	
150	150.4	3.5	7	9	11							SS-9	UNDIVIDED COASTAL PLAIN Reddish Brown, Very Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic		
	147.9	6.0	5	6	6							M			
145	145.4	8.5	4	5	5							SS-10	Reddish Brown to Tan Brown, Loose to Medium Dense, Clayey Fine to Coarse SAND, Slightly Plastic	7.9	
140	140.4	13.5	2	2	2							M			
135	135.4	18.5	WOH	WOH	WOH							Sat.	Gray to Tan Brown, Very Loose, Clayey Coarse to Fine SAND, Slightly Plastic	16.2	
													Boring Terminated at Elevation 133.9 ft in Undivided Coastal Plain Material: Clayey SAND	20.0	
													Cave-In at 16.5'		

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_5100	STATION 51+00	OFFSET 30 ft LT		ALIGNMENT -L-		0 HR. Dry										
COLLAR ELEV. 158.2 ft	TOTAL DEPTH 10.0 ft	NORTHING 971,871		EASTING 2,397,998		24 HR. Dry										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/13/17	COMP. DATE 11/13/17	SURFACE WATER DEPTH N/A												
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
	157.2	1.0	7	8	9										158.2	GROUND SURFACE
															157.8	0.4' Topsoil
155	154.7	3.5	7	8	10											UNDIVIDED COASTAL PLAIN Reddish Brown to Red and Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Moderately Plastic
	152.2	6.0	8	10	14											
150	149.7	8.5	7	8	10											
															148.2	Boring Terminated at Elevation 148.2 ft in Undivided Coastal Plain Material: Sandy CLAY
																Cave-In at 7.1'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_5350	STATION 53+50	OFFSET CL		ALIGNMENT -L-		0 HR. Dry										
COLLAR ELEV. 158.6 ft	TOTAL DEPTH 10.0 ft	NORTHING 972,109		EASTING 2,398,082		24 HR. FIAD										
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 02/11/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Davis, S.		START DATE 11/16/17	COMP. DATE 11/16/17	SURFACE WATER DEPTH N/A												
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
															158.6	GROUND SURFACE
															157.9	0.7' Asphalt
															156.1	ROADWAY EMBANKMENT Brown, Coarse to Fine SAND
155	155.1	3.5	5	7	10											UNDIVIDED COASTAL PLAIN Red to Brown, Very Stiff, Coarse to Fine Sandy CLAY, Slightly to Moderately Plastic
150	150.1	8.5	5	6	10											
															148.6	Boring Terminated at Elevation 148.6 ft in Undivided Coastal Plain Material: Sandy CLAY
																Cave-In at 6.2'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_5500		STATION 55+00		OFFSET 40 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 153.2 ft		TOTAL DEPTH 10.0 ft		NORTHING 972,264		EASTING 2,398,075										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 11/13/17		COMP. DATE 11/13/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
155																
	152.2	1.0	3	4	5										153.2	GROUND SURFACE
															152.8	0.4' Topsoil
150	149.7	3.5	5	7	9											UNDIVIDED COASTAL PLAIN Red to Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Highly Plastic
	147.2	6.0	5	7	9											
145	144.7	8.5	4	5	9											
															143.2	Boring Terminated at Elevation 143.2 ft in Undivided Coastal Plain Material: Sandy CLAY
																Cave-In at 7.2'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_5700		STATION 57+00		OFFSET 40 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 148.3 ft		TOTAL DEPTH 10.0 ft		NORTHING 972,459		EASTING 2,398,119										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 11/13/17		COMP. DATE 11/13/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
150																
	147.3	1.0	3	4	6										148.3	GROUND SURFACE
145	144.8	3.5	3	4	5											UNDIVIDED COASTAL PLAIN Red to Brown, Stiff to Very Stiff, Coarse to Fine Sandy CLAY, Highly Plastic
	142.3	6.0	5	7	8											
140	139.8	8.5	4	5	5											
															140.4	Red to Brown, Loose to Medium Dense, Clayey Fine SAND, Slightly Plastic
															138.3	Boring Terminated at Elevation 138.3 ft in Undivided Coastal Plain Material: Clayey SAND
																Cave-In at 7.9'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5				TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.						
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road									GROUND WTR (ft)							
BORING NO. L_5900			STATION 59+00			OFFSET 25 ft RT			ALIGNMENT -L-			0 HR. Dry				
COLLAR ELEV. 147.8 ft			TOTAL DEPTH 10.0 ft			NORTHING 972,567			EASTING 2,398,210			24 HR. Dry				
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 11/13/17			COMP. DATE 11/13/17			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION ELEV. (ft) DEPTH (ft)			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
150																
	146.8	1.0	5	8	12							D		147.8	0.0	
145	144.3	3.5	6	13	16							D				
	141.8	6.0	6	8	11							D				
140	139.3	8.5	5	7	9							D				
												D			137.8	10.0
Boring Terminated at Elevation 137.8 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.1'																

WBS 50162.1.1 / 37765.1.5				TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.						
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road									GROUND WTR (ft)							
BORING NO. L_6003			STATION 60+03			OFFSET 20 ft RT			ALIGNMENT -L-			0 HR. Dry				
COLLAR ELEV. 144.7 ft			TOTAL DEPTH 10.0 ft			NORTHING 972,741			EASTING 2,398,245			24 HR. Dry				
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 12/19/17			COMP. DATE 12/19/17			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION ELEV. (ft) DEPTH (ft)			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
145																
	143.7	1.0	5	6	8							D		144.7	0.0	
	141.2	3.5	10	9	10							D			141.8	2.9
140	138.7	6.0	7	9	11							D				
	136.2	8.5	5	6	12							D			134.7	10.0
Boring Terminated at Elevation 134.7 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 5.2'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5	TIP U-5725 / R-3822	COUNTY HALIFAX	GEOLOGIST Pastrana, C.R.
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road			GROUND WTR (ft)
BORING NO. L_6300	STATION 63+00	OFFSET 4 ft RT	ALIGNMENT -L-
COLLAR ELEV. 137.4 ft	TOTAL DEPTH 10.0 ft	NORTHING 973,035	EASTING 2,398,295
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
DRILLER Meatyard, C.	START DATE 11/14/17	COMP. DATE 11/14/17	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140																
	136.4	1.0														
	133.9	3.5	2	3	3											
	131.4	6.0	2	3	5											
	128.9	8.5	4	4	4											

WBS 50162.1.1 / 37765.1.5	TIP U-5725 / R-3822	COUNTY HALIFAX	GEOLOGIST Pastrana, C.R.
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road			GROUND WTR (ft)
BORING NO. L_6500	STATION 65+00	OFFSET 3 ft LT	ALIGNMENT -L-
COLLAR ELEV. 133.8 ft	TOTAL DEPTH 10.0 ft	NORTHING 973,231	EASTING 2,398,332
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
DRILLER Meatyard, C.	START DATE 11/14/17	COMP. DATE 11/14/17	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
	132.8	1.0	3	5	7											
	130.3	3.5	6	10	13											
	127.8	6.0	4	7	9											
	125.3	8.5	4	6	7											

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_6700		STATION 67+00		OFFSET 62 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 132.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 973,439		EASTING 2,398,316									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
135															
130	131.2	1.0	6	7	8								M	132.2 GROUND SURFACE 0.0 131.5 0.7' Topsoil 0.7	
	128.7	3.5	3	5	6								M	129.1 UNDIVIDED COASTAL PLAIN 3.1 Brown to Red, Stiff to Very Stiff, Silty CLAY, Moderately Plastic, Trace Sand	
	126.2	6.0	3	3	3								M	126.7 Brown to Red, Stiff, Fine Sandy CLAY, Slightly Plastic 5.5	
125	123.7	8.5	2	1	1								M	Brown to Red to Gray, Soft to Medium Stiff, Silty CLAY, Moderately to Highly Plastic, Thin (1" to 2" thick) Coarse Sand Lenses	
	118.7	13.5	2	2	2								M		
													W	117.2 Boring Terminated at Elevation 117.2 ft in Undivided Coastal Plain Material: Silty CLAY 15.0	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. L_6900		STATION 69+00		OFFSET 26 ft RT		ALIGNMENT -L-									
COLLAR ELEV. 130.0 ft		TOTAL DEPTH 10.0 ft		NORTHING 973,616		EASTING 2,398,444									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
130															
	129.0	1.0	2	5	7								M	130.0 GROUND SURFACE 0.0 129.6 0.4' Topsoil 0.4	
	126.5	3.5	3	6	6								M	126.8 UNDIVIDED COASTAL PLAIN 3.2 Brown to Red, Stiff, Fine Sandy CLAY, Slightly Plastic	
125	124.0	6.0	3	3	3								M	Gray to Red to Brown, Stiff to Medium Stiff, Silty CLAY, Highly to Moderately Plastic, Thin (1" to 2" Thick) Clayey Sand Lenses	
	121.5	8.5	2	2	2								W	121.9 Brown to Tan Brown, Soft to Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic 8.1	
120														120.0 Boring Terminated at Elevation 120.0 ft in Undivided Coastal Plain Material: Sandy CLAY 10.0	
														Cave-In at 7.6'	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_7100		STATION 71+00		OFFSET 11 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 126.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 973,815		EASTING 2,398,470										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/15/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
130																
125	125.1	1.0	5	6	7										126.1	0.0
	122.6	3.5	5	6	7										125.0	0.5
120	120.1	6.0	3	3	5										118.3	7.8
	117.6	8.5	3	5	5										116.1	10.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_7300		STATION 73+00		OFFSET 30 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 123.9 ft		TOTAL DEPTH 10.0 ft		NORTHING 974,007		EASTING 2,398,530										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
125																
	122.9	1.0	2	2	2										123.9	0.0
120	120.4	3.5	2	1	2										119.1	4.8
	117.9	6.0	2	2	3											
115	115.4	8.5	2	3	4										113.9	10.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_7300A		STATION 73+00		OFFSET 20 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 123.7 ft		TOTAL DEPTH 5.0 ft		NORTHING 974,009		EASTING 2,398,521										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/22/17		COMP. DATE 12/22/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
125															123.7	0.0
	122.7	1.0	2	2	2	1	1	1	1	1	1	1	1	M	UNDIVIDED COASTAL PLAIN Brown to Gray, Soft to Medium Stiff, Clayey SILT, Slightly Plastic	
120	120.2	3.5	1	2	1	3								W	Boring Terminated at Elevation 118.7 ft in Undivided Coastal Plain Material: Clayey SILT	5.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_7507		STATION 75+07		OFFSET 38 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 123.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 974,208		EASTING 2,398,581										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
125															123.0	0.0
	122.0	1.0	4	5	9	14								M	UNDIVIDED COASTAL PLAIN Red to Brown to Gray, Stiff to Medium Stiff, Coarse to Fine Sandy CLAY, Moderately to Highly Plastic	
120	119.5	3.5	4	5	7	12								M		
	117.0	6.0	5	4	3	7								M		
115	114.5	8.5	3	3	3	6								M		
	109.5	13.5	1	1	1	2								Sat.	Brown, Soft, Coarse to Fine Sandy CLAY, Slightly Plastic	12.2
															Boring Terminated at Elevation 108.0 ft in Undivided Coastal Plain Material: Sandy CLAY	15.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.								
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)							
BORING NO. L_7705		STATION 77+05		OFFSET 34 ft RT		ALIGNMENT -L-								
COLLAR ELEV. 119.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 974,403		EASTING 2,398,618								
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A								
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
120														119.0 GROUND SURFACE 0.0
	118.0	1.0	WOH	WOH	1									UNDIVIDED COASTAL PLAIN Brown, Very Soft to Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic
115	115.5	3.5	1	3	3									
	113.0	6.0	6	9	11									113.3 Brown to Red to Gray, Very Stiff to Soft, Coarse to Fine Sandy CLAY, Highly Plastic, Little Gravel -5.7
110	110.5	8.5	5	7	10									
	105.5	13.5	2	2	2									104.0 Boring Terminated at Elevation 104.0 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 9.0' 15.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.								
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)							
BORING NO. L_7900		STATION 79+00		OFFSET CL		ALIGNMENT -L-								
COLLAR ELEV. 113.5 ft		TOTAL DEPTH 15.0 ft		NORTHING 974,600		EASTING 2,398,625								
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A								
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
115														113.5 GROUND SURFACE 0.0
	112.5	1.0	WOH	4	5									112.0 0.3' Topsoil 1.5
110	110.0	3.5	5	6	6									ROADWAY EMBANKMENT Brown, Medium Stiff, Fine to Coarse Sandy CLAY, Slightly Plastic
	107.5	6.0	3	4	4									UNDIVIDED COASTAL PLAIN Brown to Gray, Stiff to Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic, Little Gravel and Cobbles
105	105.0	8.5	2	3	3									
	100.0	13.5	5	3	4									99.2 Gray, Medium Stiff, Silty CLAY, Highly Plastic 14.3 98.5 Boring Terminated at Elevation 98.5 ft in Undivided Coastal Plain Material: Silty CLAY 15.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.	
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)
BORING NO. L_8100		STATION 81+00		OFFSET 52 ft LT		ALIGNMENT -L-	
COLLAR ELEV. 109.6 ft		TOTAL DEPTH 10.0 ft		NORTHING 974,807		EASTING 2,398,615	
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic			
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
110															109.6	GROUND SURFACE	0.0
	108.6	1.0	1	1	1										108.4	0.2' Topsoil	0.2
	106.1	3.5	3	4	5										106.4	ALLUVIAL Gray to Black, Very Loose, Silty Clayey Fine to Coarse SAND, Slightly Plastic, Trace Organics, Trace Gravel	3.2
105	103.6	6.0	3	2	2										102.6	Gray, Medium Stiff, Fine to Coarse Sandy CLAY, Slightly Plastic, Little Gravel, Trace Organics	7.0
	101.1	8.5	3	3	4										99.6	Note: Blow count influenced by gravel	10.0
100																UNDIVIDED COASTAL PLAIN Brown, Medium Stiff, Fine to Coarse Sandy CLAY, Slightly Plastic	
																Boring Terminated at Elevation 99.6 ft in Undivided Coastal Plain Material: Sandy CLAY	
																Other Samples: O-2.3% (1.0 - 2.5)	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.	
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)
BORING NO. L_8220		STATION 82+20		OFFSET 18 ft RT		ALIGNMENT -L-	
COLLAR ELEV. 109.3 ft		TOTAL DEPTH 8.5 ft		NORTHING 974,909		EASTING 2,398,708	
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic			
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
110															109.3	GROUND SURFACE	0.0
	108.3	1.0	2	3	3										108.7	0.6' Topsoil	0.6
	105.8	3.5	1	1	1										104.9	ALLUVIAL Gray, Medium Stiff, Fine Sandy CLAY, Slightly Plastic	4.4
105	103.3	6.0													103.5	RESIDUAL Brown to Gray, Soft, Silty CLAY, Moderately Plastic, Trace SAND	5.8
	100.8	8.5													100.8	WEATHERED ROCK METAMORPHOSED QUARTZ DIORITE	8.5
																Boring Terminated with Standard Penetration Test Refusal at Elevation 100.8 ft on Crystalline Rock: METAMORPHOSED QUARTZ DIORITE	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)								
BORING NO. CULV1_A		STATION 84+46		OFFSET 74 ft LT		ALIGNMENT -L-									
COLLAR ELEV. 111.5 ft		TOTAL DEPTH 16.5 ft		NORTHING 975,154		EASTING 2,398,666									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 10/23/17		COMP. DATE 10/23/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
115															
110															
105															
100															
95															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.	
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)
BORING NO. CULV1_B		STATION 84+50		OFFSET 50 ft RT		ALIGNMENT -L-	
COLLAR ELEV. 104.6 ft		TOTAL DEPTH 14.9 ft		NORTHING 975,128		EASTING 2,398,787	
DRILL RIG/HAMMER EFF./DATE N/A		DRILL METHOD Rod Sounding		HAMMER TYPE N/A			
DRILLER N/A		START DATE 10/20/17		COMP. DATE 10/20/17		SURFACE WATER DEPTH N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
105															
100															
95															
90															

NCDOT BORE DOUBLE_U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_8700LT		STATION 87+00		OFFSET 103 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 116.3 ft		TOTAL DEPTH 25.0 ft		NORTHING 975,409		EASTING 2,398,698										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
120																
115	115.3	1.0	WOH	2	2									116.3	GROUND SURFACE	0.0
	112.8	3.5		2	2											
110	110.3	6.0		2	2											
	107.8	8.5		3	1	1										
105														108.1	ALLUVIAL	8.2
	102.8	13.5		9	10	13								103.6	Gray, Medium Dense, Clayey Fine to Coarse SAND, Some Gravel and Cobbles	12.7
100														99.0	Brown, White, and Black, Loose, Fine to Coarse SAND, Trace Clay and Silt	17.3
	97.8	18.5		1	2	2								94.2	UNDIVIDED COASTAL PLAIN	22.1
95														91.3	Brown, Medium Dense, Clayey Fine to Coarse SAND, Slightly Plastic, Trace Gravel	25.0
	92.8	23.5		4	5	9										
Boring Terminated at Elevation 91.3 ft in Undivided Coastal Plain: Clayey SAND Other Samples: O-1.5% (8.5 - 10.0)																

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. L_8700RT		STATION 87+00		OFFSET 78 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 106.3 ft		TOTAL DEPTH 17.5 ft		NORTHING 975,360		EASTING 2,398,872										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/14/17		COMP. DATE 11/14/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
110																
	105.3	1.0		4	4	6								106.3	GROUND SURFACE	0.0
	102.8	3.5		5	6	5										
100	100.3	6.0		1	1	0										
	97.8	8.5		4	5	6										
95														92.8	UNDIVIDED COASTAL PLAIN	12.9
	92.8	13.5		1	1	1								89.8	Brown to Green to White, Soft, Fine Sandy Silty CLAY, Moderately Plastic	16.5
90														88.8	WEATHERED ROCK	17.5
	88.8	17.5		60/0.0												
Boring Terminated with Standard Penetration Test Refusal at Elevation 88.8 ft on Crystalline Rock: METAMORPHOSED QUARTZ DIORITE																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_1600		STATION 16+00		OFFSET 36 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 158.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,057		EASTING 2,397,349										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160														158.5	0.0	GROUND SURFACE
	157.5	1.0	3	3	5								M			UNDIVIDED COASTAL PLAIN Brown to Red to Gray, Medium Stiff to Very Stiff, Silty Fine Sandy CLAY, Slightly to Moderately Plastic
155	155.0	3.5	3	5	5								M			
	152.5	6.0	8	9	14								M			
150	150.0	8.5	6	9	12								M			
														148.5	10.0	Boring Terminated at Elevation 148.5 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 5.9'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_1823		STATION 18+23		OFFSET 31 ft LT		ALIGNMENT -L1-										
COLLAR ELEV. 159.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 968,178		EASTING 2,397,548										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160														159.0	0.0	GROUND SURFACE
	158.0	1.0														
	155.5	3.5	3	4	6											
155	155.5	3.5	3	4	6											
	153.0	6.0	5	6	9											
150	150.5	8.5	3	4	5											
	145.5	13.5	4	3	3											
145	145.5	13.5	4	3	3									144.7	14.3	Brown, Medium Stiff, Fine Sandy Clayey SILT
														144.0	15.0	Boring Terminated at Elevation 144.0 ft in Undivided Coastal Plain Material: Clayey SILT Cave-In at 10.5'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_2000		STATION 20+00		OFFSET CL		ALIGNMENT -L1-									
COLLAR ELEV. 155.9 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,235		EASTING 2,397,715									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
160															
155	154.9	1.0	2	2	2									155.9	GROUND SURFACE 0.0
	152.4	3.5	4	4	4									152.8	UNDIVIDED COASTAL PLAIN Brown, Loose, Silty Coarse to Fine SAND, Trace Clay 3.1
	149.9	6.0	4	5	7									150.3	Brown, Loose, Clayey Fine SAND, Slightly Plastic 5.6
150	147.4	8.5	4	5	6									145.9	Gray, Stiff, Coarse to Fine Sandy CLAY, Highly Plastic 10.0
															Boring Terminated at Elevation 145.9 ft in Undivided Coastal Plain Material: Sandy CLAY
															Cave-In at 6.2'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_2270		STATION 22+70		OFFSET 3 ft LT		ALIGNMENT -L1-									
COLLAR ELEV. 154.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,426		EASTING 2,397,904									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
	153.1	1.0	3	5	6									154.1	GROUND SURFACE 0.0
	150.6	3.5	4	5	5									153.2	0.9' Topsoil 0.9
150	148.1	6.0	4	6	6									148.8	UNDIVIDED COASTAL PLAIN Gray to Red, Stiff, Coarse to Fine Sandy CLAY, Moderately Plastic 5.3
	145.6	8.5	3	4	6									144.1	Gray to Red, Stiff, Fine Sandy CLAY, Slightly Plastic 10.0
															Boring Terminated at Elevation 144.1 ft in Undivided Coastal Plain Material: Sandy CLAY
															Cave-In at 7.5'

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GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5			TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.							
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158								GROUND WTR (ft)								
BORING NO. L1_2400			STATION 24+00			OFFSET 32 ft RT			ALIGNMENT -L1-							
COLLAR ELEV. 157.3 ft			TOTAL DEPTH 10.0 ft			NORTHING 968,502			EASTING 2,398,014							
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017					DRILL METHOD H.S. Augers				HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 11/09/17		COMP. DATE 11/09/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
															157.3	GROUND SURFACE
155	156.3	1.0	2	1	2	3	3	4	6			M				
	153.8	3.5	2	2	3							SS-17	6%			
	151.3	6.0	4	5	4							M			150.8	Brown, Stiff, Fine Sandy CLAY, Slightly Plastic
150	148.8	8.5	4	4	7							M			147.3	Boring Terminated at Elevation 147.3 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.6'

WBS 50162.1.1 / 37765.1.5			TIP U-5725 / R-3822			COUNTY HALIFAX			GEOLOGIST Pastrana, C.R.							
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158								GROUND WTR (ft)								
BORING NO. L1_2619			STATION 26+19			OFFSET 50 ft LT			ALIGNMENT -L1-							
COLLAR ELEV. 158.4 ft			TOTAL DEPTH 10.0 ft			NORTHING 968,713			EASTING 2,398,117							
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017					DRILL METHOD H.S. Augers				HAMMER TYPE Automatic							
DRILLER Meatyard, C.			START DATE 11/08/17		COMP. DATE 11/08/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
160																
															158.4	GROUND SURFACE
155	157.4	1.0	7	7	6							SS-18	10%			
	154.9	3.5	5	6	10							M				
	152.4	6.0	10	14	16							M				
150	149.9	8.5	8	6	6							M			148.4	Gray, Stiff, Fine Sandy CLAY, Slightly Plastic
															148.4	Boring Terminated at Elevation 148.4 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 7.8'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_2800		STATION 28+00		OFFSET CL		ALIGNMENT -L1-									
COLLAR ELEV. 150.8 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,783		EASTING 2,398,292									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/08/17		COMP. DATE 11/08/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
155															
150	149.8	1.0	2	2	1								M	GROUND SURFACE 0.0 0.6' Topsoil 0.6	
	147.3	3.5	3	3	2								M	ARTIFICIAL FILL Brown, Very Loose, Silty Coarse to Fine SAND 4.3	
145	144.8	6.0	4	5	6								M	UNDIVIDED COASTAL PLAIN Gray to Brown, Medium Stiff to Stiff, Fine Sandy CLAY, Slightly Plastic	
	142.3	8.5	4	4	4								M	Boring Terminated at Elevation 140.8 ft in Undivided Coastal Plain Material: Sandy CLAY	10.0
														Cave-In at 7.6'	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_3016		STATION 30+16		OFFSET 10 ft LT		ALIGNMENT -L1-									
COLLAR ELEV. 146.3 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,927		EASTING 2,398,453									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
150															
145	145.3	1.0	4	6	5								M	GROUND SURFACE 0.0 ARTIFICIAL FILL 2.0 Reddish Brown, Stiff, Silty Fine Sandy CLAY, Trace Gravel, Slightly Plastic	
	142.8	3.5	4	6	8								M	Gray, Medium Stiff, Fine Sandy CLAY, Trace Organics 4.6	
140	140.3	6.0	3	3	3								M	Gray to Dark Brown, Medium Dense, Clayey Fine SAND, Trace Organics 5.7	
	137.8	8.5	3	3	3								M	Dark Brown to Gray, Moist, Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic 8.1	
														UNDIVIDED COASTAL PLAIN 10.0 Tan Brown to Red with Gray, Medium Stiff, Fine Sandy CLAY, Moderately Plastic Boring Terminated at Elevation 136.3 ft in Undivided Coastal Plain Material: Sandy CLAY	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_3200		STATION 32+00		OFFSET 30 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 141.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 969,042		EASTING 2,398,603										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
145																
140	140.2	1.0	5	9	7										141.2	GROUND SURFACE
															140.5	0.7' Topsoil
	137.7	3.5	4	6	7										138.0	UNDIVIDED COASTAL PLAIN Brown to Tan Brown, Medium Dense, Clayey Fine SAND
135	135.2	6.0	2	2	3											Tan Brown and Brown, Stiff to Soft, Coarse to Fine Sandy CLAY, Slightly Plastic
	132.7	8.5	2	1	1											
130																
	127.7	13.5	WOH	1	3										129.1	Red with Gray, Soft to Medium Stiff, Silty Coarse to Fine Sandy CLAY, Moderately Plastic
															126.2	Boring Terminated at Elevation 126.2 ft in Undivided Coastal Plain Material: Sandy CLAY

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_3400		STATION 34+00		OFFSET 34 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 134.7 ft		TOTAL DEPTH 25.0 ft		NORTHING 969,220		EASTING 2,398,708										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
135																
	133.7	1.0	WOH	WOH	WOH										134.7	GROUND SURFACE
	131.2	3.5	WOH	WOH	WOH											ALLUVIAL Black to Gray, Very Soft, Clayey Fine to Coarse Sandy SILT, Trace Organics
130	128.7	6.0	1	1	0										128.1	UNDIVIDED COASTAL PLAIN Tan Brown, Very Loose to Loose, Clayey Fine to Coarse SAND
125	126.2	8.5	1	1	1											
	121.2	13.5	1	1	0											
120																
	116.2	18.5	WOH	1	0											
115																
	111.2	23.5	1	2	2										109.7	Boring Terminated at Elevation 109.7 ft in Undivided Coastal Plain Material: Clayey SAND
110																

Other Samples:
O-1.4% (1.0 - 2.5)

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

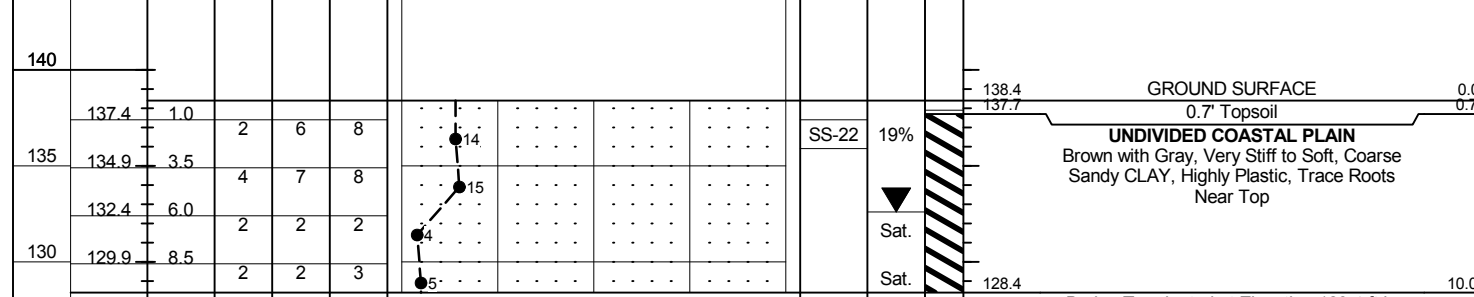
GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5	TIP U-5725 / R-3822	COUNTY HALIFAX	GEOLOGIST Pastrana, C.R.
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158			GROUND WTR (ft)
BORING NO. L1_3600	STATION 36+00	OFFSET 20 ft RT	ALIGNMENT -L1-
COLLAR ELEV. 138.4 ft	TOTAL DEPTH 10.0 ft	NORTHING 969,413	EASTING 2,398,768
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers
DRILLER Meatyard, C.			START DATE 11/07/17
COMP. DATE 11/07/17			SURFACE WATER DEPTH N/A

0 HR. 5.8	24 HR. 5.8
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DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017	DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
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ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					

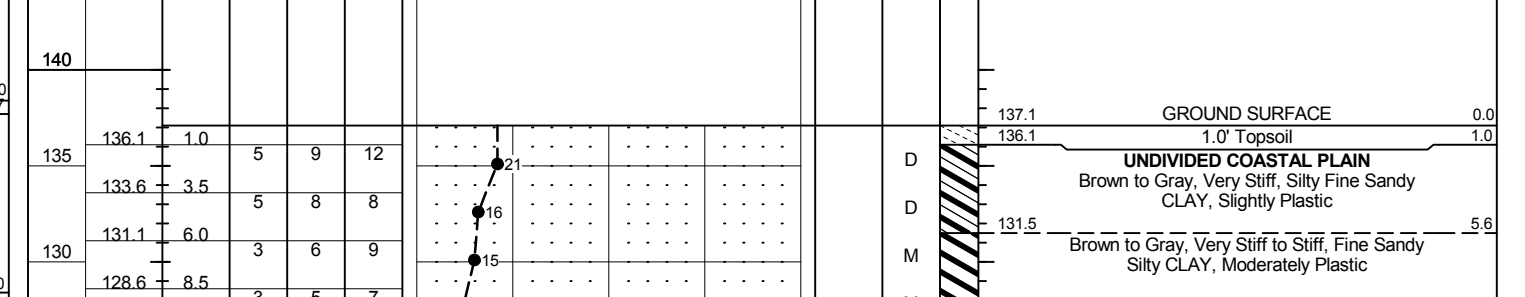


WBS 50162.1.1 / 37765.1.5	TIP U-5725 / R-3822	COUNTY HALIFAX	GEOLOGIST Pastrana, C.R.
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158			GROUND WTR (ft)
BORING NO. L1_3800	STATION 38+00	OFFSET CL	ALIGNMENT -L1-
COLLAR ELEV. 137.1 ft	TOTAL DEPTH 10.0 ft	NORTHING 969,607	EASTING 2,398,820
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers
DRILLER Meatyard, C.			START DATE 11/07/17
COMP. DATE 11/07/17			SURFACE WATER DEPTH N/A

0 HR. Dry	24 HR. Dry
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DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017	DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
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ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					



NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_3900		STATION 39+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 134.3 ft		TOTAL DEPTH 20.0 ft		NORTHING 969,700		EASTING 2,398,856										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
135														134.3	GROUND SURFACE	0.0
130															UNDIVIDED COASTAL PLAIN Brown to Gray, Stiff to Very Stiff, Silty Fine Sandy CLAY, Slightly to Moderately Plastic	
125																
120														122.3	Brown, Very Loose to Loose, Clayey Fine SAND	12.0
115														114.3	Boring Terminated at Elevation 114.3 ft in Undivided Coastal Plain Material: Clayey SAND	20.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4000		STATION 40+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 131.0 ft		TOTAL DEPTH 20.0 ft		NORTHING 969,794		EASTING 2,398,892										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/06/17		COMP. DATE 11/06/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
135														131.0	GROUND SURFACE	0.0
130	130.0	1.0	1	3	3									129.3	ALLUVIAL MUCK	1.7
125	127.5	3.5	2	3	5									125.7	UNDIVIDED COASTAL PLAIN Greenish Brown to Red to Gray, Medium Stiff to Stiff, Silty Fine Sandy CLAY, Moderately Plastic	5.3
120	125.0	6.0	WOH	WOH	WOH										Gray, Very Soft, Clayey Coarse to Fine Sandy SILT	
120	122.5	8.5	WOH	WOH	WOH											
115	117.5	13.5	WOH	WOH	WOH									117.1	Gray, Very Loose to Loose, Clayey Coarse to Fine SAND, Slightly Plastic	13.9
115	112.5	18.5	2	2	3									111.0	Boring Terminated at Elevation 111.0 ft in Undivided Coastal Plain Material: Clayey SAND	20.0
															Other Samples: ST-1 (8.3 - 10.1)	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4097		STATION 40+97		OFFSET 15 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 137.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 969,879		EASTING 2,398,940										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/06/17		COMP. DATE 11/06/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140														137.0	0.0	GROUND SURFACE
135														135.5	1.5	UNDIVIDED COASTAL PLAIN Brown to Black, Dry, Loose to Medium Dense, Silty Fine SAND, Trace Clay
130														130.5	6.5	Brown to Tan Brown, Dry to Moist, Medium Dense, Fine SAND, Trace Clay
125														126.0	11.0	Brown to Gray, Moist, Medium Stiff, Silty CLAY, Highly Plastic
														122.0	15.0	Brown and Gray, Wet, Very Soft, Fine Sandy CLAY, Slightly Plastic
Boring Terminated at Elevation 122.0 ft in Undivided Coastal Plain Material: Sandy CLAY																

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4200		STATION 42+00		OFFSET 30 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 136.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 969,970		EASTING 2,398,991										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/06/17		COMP. DATE 11/06/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140														136.1	0.0	GROUND SURFACE
135	135.1	1.0	9	6	6									134.8	1.3	1.3' Topsoil
130	132.6	3.5	5	4	7									132.8	3.3	UNDIVIDED COASTAL PLAIN Greenish Brown to Gray, Medium Dense, Clayey Fine SAND
	130.1	6.0	3	4	6											Gray to Brown, Stiff, Fine Sandy CLAY, Highly Plastic
	127.6	8.5	3	4	7									127.1	9.0	Brown to Reddish Brown, Stiff, Fine Sandy CLAY, Slightly Plastic
														126.1	10.0	Boring Terminated at Elevation 126.1 ft in Undivided Coastal Plain Material: Sandy CLAY
Cave-In at 7.3'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4400		STATION 44+00		OFFSET 20 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 138.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,161		EASTING 2,399,053										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140																
	137.5	1.0	3	4	8										138.5	GROUND SURFACE 0.0
	137.8														137.8	0.7' Topsoil
135	135.0	3.5	5	11	13											
	132.5	6.0	2	4	6										133.0	UNDIVIDED COASTAL PLAIN Greenish Brown with Red, Stiff to Very Stiff, Fine Sandy CLAY, Slightly Plastic
130	130.0	8.5	3	4	6										128.5	Greenish Brown to Red to Gray, Stiff, Silty CLAY, Highly Plastic, Trace SAND
																Boring Terminated at Elevation 128.5 ft in Undivided Coastal Plain Material: Silty CLAY
																Cave-In at 6.5'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4600		STATION 46+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 140.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,355		EASTING 2,399,105										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 11/06/17		COMP. DATE 11/06/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
145																
															140.5	GROUND SURFACE 0.0
															139.4	1.1' Topsoil 1.1
140	139.5	1.0	6	14	15											
	137.0	3.5	8	10	14											
135	134.5	6.0	4	6	9										134.9	UNDIVIDED COASTAL PLAIN Brown to Reddish Brown with Gray, Very Stiff, Fine Sandy CLAY, Slightly Plastic
	132.0	8.5	4	5	7										130.5	Greenish Brown to Gray, Very Stiff to Stiff, Silty CLAY, Highly Plastic
																Boring Terminated at Elevation 130.5 ft in Undivided Coastal Plain Material: Silty CLAY
																Cave-In at 7.1'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_4800		STATION 48+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 143.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 970,542		EASTING 2,399,176										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers			HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
145																
	142.2	1.0	1	4	4										143.2	0.0
	139.7	3.5	4	6	8											
	137.2	6.0	4	5	8										137.5	5.7
	134.7	8.5	7	7	6											
	129.7	13.5	4	5	7										128.2	15.0
Boring Terminated at Elevation 128.2 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 10.1'																

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_5000		STATION 50+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 141.7 ft		TOTAL DEPTH 15.0 ft		NORTHING 970,728		EASTING 2,399,248										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017		DRILL METHOD H.S. Augers			HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
145																
	140.7	1.0	2	3	4										141.7	0.0
	138.2	3.5	4	5	8											
	135.7	6.0	4	5	7										136.3	5.4
	133.2	8.5	5	6	13											
	128.2	13.5	5	6	7										126.7	15.0
Boring Terminated at Elevation 126.7 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 10.9'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_5200		STATION 52+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 139.3 ft		TOTAL DEPTH 10.0 ft		NORTHING 970,913		EASTING 2,399,325										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140														139.3	0.0	GROUND SURFACE
	138.3	1.0	3	5	6							M				
	135.8	3.5										M				
	133.3	6.0	4	6	7							M				
	130.8	8.5	4	6	8							M				
														131.5	7.8	Tan Brown to Gray to Red, Stiff, Coarse to Fine Sandy CLAY, Moderately Plastic
														129.3	10.0	Boring Terminated at Elevation 129.3 ft in Undivided Coastal Plain Material: Sandy CLAY
																Cave-In at 6.8'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_5400		STATION 54+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 135.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 971,094		EASTING 2,399,409										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
140														135.1	0.0	GROUND SURFACE
	134.1	1.0	3	4	5							M				
	131.6	3.5	4	5	7							M				
	129.1	6.0	4	6	6							M				
	126.6	8.5	4	7	6							M				
														129.6	5.5	Tan Brown to Brown to Red to Gray, Medium Dense, Silty Clayey Fine SAND, Slightly Plastic
														125.1	10.0	Boring Terminated at Elevation 125.1 ft in Undivided Coastal Plain Material: Clayey SAND
																Cave-In at 5.6'

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_5600		STATION 56+00		OFFSET CL		ALIGNMENT -L1-									
COLLAR ELEV. 131.6 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,273		EASTING 2,399,499									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
135															
130	130.6	1.0	2	2	2								M	131.6	0.0
	128.1	3.5	2	3	2								W		
	125.6	6.0	3	3	5										
125	123.1	8.5	4	5	7								M	123.6	8.0
	118.1	13.5	1	1	1								Sat.	116.6	15.0
Boring Terminated at Elevation 116.6 ft in Undivided Coastal Plain Material: Clayey SAND															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_5800		STATION 58+00		OFFSET 20 ft RT		ALIGNMENT -L1-									
COLLAR ELEV. 133.7 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,438		EASTING 2,399,613									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
135															
	132.7	1.0	4	5	9								M	133.7	0.0
130	130.2	3.5	7	8	6								M		
	127.7	6.0	4	5	6								M		
125	125.2	8.5	3	4	5										
	120.2	13.5	3	3	3								Sat.	118.7	15.0
Boring Terminated at Elevation 118.7 ft in Undivided Coastal Plain Material: Clayey SAND															

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_6000		STATION 60+00		OFFSET 20 ft LT		ALIGNMENT -L1-										
COLLAR ELEV. 134.8 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,630		EASTING 2,399,682										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
135														134.8	0.0	GROUND SURFACE
	133.8	1.0	4	5	6											UNDIVIDED COASTAL PLAIN Brown to Red to Gray, Stiff to Medium Stiff, Fine Sandy CLAY, Moderately Plastic
	131.3	3.5	3	6	7											
130	128.8	6.0	4	5	7											
	126.3	8.5	3	5	7											
125	121.3	13.5	1	2	3											
120														119.8	15.0	Boring Terminated at Elevation 119.8 ft in Undivided Coastal Plain Material: Sandy CLAY Cave-In at 11.3'

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.												
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)											
BORING NO. L1_6200		STATION 62+00		OFFSET CL		ALIGNMENT -L1-												
COLLAR ELEV. 130.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,787		EASTING 2,399,808												
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic													
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A												
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)				
			0.5ft	0.5ft	0.5ft	0	25	50	75	100								
135																130.2	0.0	GROUND SURFACE
	129.2	1.0	5	6	7													UNDIVIDED COASTAL PLAIN Brown, Stiff to Very Stiff, Fine Sandy CLAY, Slightly Plastic
	126.7	3.5	5	7	8													
130	124.2	6.0	4	6	8													
	121.7	8.5	3	4	5													
125	116.7	13.5	3	5	8													
120																		Red to Gray to Brown, Stiff, Coarse to Fine Sandy Silty CLAY, Moderately Plastic
																		Boring Terminated at Elevation 115.2 ft in Undivided Coastal Plain Material: Silty CLAY

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_6400		STATION 64+00		OFFSET CL		ALIGNMENT -L1-									
COLLAR ELEV. 126.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,952		EASTING 2,399,921									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
130															
125	125.0	1.0	3	4	6									126.0	0.0
	122.5	3.5	3	4	7										
120	120.0	6.0	3	4	8									120.3	5.7
	117.5	8.5	3	5	20									116.5	9.5
115	112.5	13.5	3	9	13									115.0	11.0
														111.0	15.0
*Blow Count Influenced by Gravel Boring Terminated at Elevation 111.0 ft in Undivided Coastal Plain Material: CLAY															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_6600		STATION 66+00		OFFSET 20 ft RT		ALIGNMENT -L1-									
COLLAR ELEV. 120.4 ft		TOTAL DEPTH 15.0 ft		NORTHING 972,105		EASTING 2,400,051									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
125															
120	119.4	1.0	2	4	4									120.4	0.0
	116.9	3.5	4	4	3									116.4	4.0
115	114.4	6.0	2	2	1									112.3	8.1
	111.9	8.5	4	3	2									112.3	8.1
110	106.9	13.5	2	2	3									105.4	15.0
Boring Terminated at Elevation 105.4 ft in Undivided Coastal Plain Material: Clayey SAND															

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_6800		STATION 68+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 124.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 972,281		EASTING 2,400,148										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
125															124.5	0.0
	123.5	1.0	2	4	6											
120	121.0	3.5	5	6	8											
	118.5	6.0	4	4	4										119.2	5.3
	116.0	8.5	3	4	6											
115															114.5	10.0
Boring Terminated at Elevation 114.5 ft in Undivided Coastal Plain Material: Sandy CLAY																
Cave-In at 6.2'																

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_7000		STATION 70+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 122.1 ft		TOTAL DEPTH 10.0 ft		NORTHING 972,443		EASTING 2,400,266										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
125															122.1	0.0
	121.1	1.0	2	3	5											
120	118.6	3.5	3	4	7										118.9	3.2
	116.1	6.0	10	11	9											
	113.6	8.5	5	11	9										114.0	8.1
115															112.1	10.0
Boring Terminated at Elevation 112.1 ft in Undivided Coastal Plain Material: Clayey SAND																
Cave-In at 7.0'																

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_7200		STATION 72+00		OFFSET CL		ALIGNMENT -L1-									
COLLAR ELEV. 120.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 972,594		EASTING 2,400,397									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
125															
120	119.2	1.0	2	2	2									120.2	0.0
	116.7	3.5	3	6	8										
115	114.2	6.0	3	3	4									114.7	5.5
	111.7	8.5	5	4	3										
110	106.7	13.5	3	2	1									105.2	15.0
Boring Terminated at Elevation 105.2 ft in Undivided Coastal Plain Material: Clayey SAND															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_7400		STATION 74+00		OFFSET 10 ft RT		ALIGNMENT -L1-									
COLLAR ELEV. 117.3 ft		TOTAL DEPTH 20.0 ft		NORTHING 972,724		EASTING 2,400,548									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
120															
	116.3	1.0	3	3	3									117.3	0.0
	113.8	3.5	3	3	4										
110	111.3	6.0	1	1	1									111.7	5.6
	108.8	8.5	1	2	2										
105	103.8	13.5	1	3	3									104.7	12.6
	98.8	18.5	3	4	3									97.3	20.0
Boring Terminated at Elevation 97.3 ft in Undivided Coastal Plain Material: CLAY															

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_8000		STATION 80+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 101.3 ft		TOTAL DEPTH 10.0 ft		NORTHING 973,135		EASTING 2,400,985										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
105																
100	100.3	1.0	3	2	2									101.3	GROUND SURFACE	0.0
	97.8	3.5	2	3	3									100.1	ARTIFICIAL FILL Brown, Fine Sandy CLAY (Cultivated Field)	1.2
	95.3	6.0	1	1	1									95.8	ALLUVIAL Black, Medium Stiff, Fine Sandy Clayey SILT, Highly Organic	5.5
	92.8	8.5	WOH	1	1									91.3	UNDIVIDED COASTAL PLAIN Brown to Gray, Soft, Fine Sandy CLAY, Trace Organics, Slightly Plastic	10.0
															Boring Terminated at Elevation 91.3 ft in Undivided Coastal Plain Material: Sandy CLAY	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_8216		STATION 82+16		OFFSET 46 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 97.6 ft		TOTAL DEPTH 15.0 ft		NORTHING 973,277		EASTING 2,401,157										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
100																
	96.6	1.0	2	2	2									97.6	GROUND SURFACE	0.0
	94.1	3.5	1	2	3									96.5	Topsoil	1.1
	91.6	6.0	1	2	1										UNDIVIDED COASTAL PLAIN Brown to Gray, Soft to Medium Stiff, Fine to Coarse Sandy CLAY, Slightly Plastic	
	89.1	8.5	1	0	1									90.0	Brown to Gray, Very Soft to Medium Stiff, Coarse to Fine Sandy CLAY, Little Gravel, Highly Plastic	
	84.1	13.5	1	2	3										Boring Terminated at Elevation 82.6 ft in Undivided Coastal Plain Material: Sandy CLAY	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_8400		STATION 84+00		OFFSET 10 ft RT		ALIGNMENT -L1-									
COLLAR ELEV. 97.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 973,454		EASTING 2,401,227									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/22/17		COMP. DATE 12/22/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
100															
	96.0	1.0	2	1	2									97.0	0.0
	93.5	3.5	4	7	3									95.0	2.0
	91.0	6.0	WOH	1	1									91.4	5.6
	88.5	8.5	2	8	12									88.0	9.0
	83.5	13.5	4	5	6									82.0	15.0
Boring Terminated at Elevation 82.0 ft in Undivided Coastal Plain Material: Clayey SAND															

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_8600		STATION 86+00		OFFSET 30 ft LT		ALIGNMENT -L1-									
COLLAR ELEV. 96.7 ft		TOTAL DEPTH 20.0 ft		NORTHING 973,649		EASTING 2,401,283									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/22/17		COMP. DATE 12/22/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
100															
	95.7	1.0	5	5	8									96.7	0.0
	93.2	3.5	9	11	10									94.7	2.0
	90.7	6.0	1	2	1									93.5	3.2
	88.2	8.5	1	2	1									91.4	5.3
	83.2	13.5	WOH	1	0										
	78.2	18.5	5	7	8									79.2	17.5
Boring Terminated at Elevation 76.7 ft in Residual: Clayey SILT															

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Long, B.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_8800		STATION 88+00		OFFSET 30 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 94.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 973,813		EASTING 2,401,411										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 10/25/17		COMP. DATE 10/25/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
95														94.0	0.0	GROUND SURFACE
	93.0	1.0	2	2	2							M		91.6	2.4	UNDIVIDED COASTAL PLAIN Gray, Loose, Clayey Coarse to Fine SAND, Slightly Plastic
90	90.5	3.5	3	4	19							M		88.0	6.0	Gray to Brown, Very Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic, Little Gravel Note: Blow count influenced by gravel
	88.0	6.0	3	4	4							M		85.6	8.4	Gray, Loose, Clayey Coarse to Fine SAND, Slightly Plastic
85	85.5	8.5	3	1	1						SS-25	50%				Tan to Gray, Soft to Stiff, Silty CLAY, Highly Plastic, Trace Sand
80	80.5	13.5	2	4	5							M		79.0	15.0	Boring Terminated at Elevation 79.0 ft in Undivided Coastal Plain Material: Silty CLAY

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Long, B.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_9000		STATION 90+00		OFFSET CL		ALIGNMENT -L1-										
COLLAR ELEV. 96.5 ft		TOTAL DEPTH 20.0 ft		NORTHING 974,015		EASTING 2,401,437										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 10/25/17		COMP. DATE 10/25/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
100														96.5	0.0	GROUND SURFACE
95	95.5	1.0	41	17	23							SS-26	7%			UNDIVIDED COASTAL PLAIN Tan to Brown, Dense, Clayey Fine to Coarse SAND, Some Gravel
	93.0	3.5	20	21	16							D		91.0	5.5	Gray to Tan, Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic, Trace Gravel
90	90.5	6.0	3	3	3							M		88.3	8.2	Tan, Loose, Silty Coarse to Fine SAND
	88.0	8.5	3	2	2							Sat.				
85														83.0	13.5	Gray, Soft to Very Stiff, Fine Sandy CLAY, Slightly Plastic, Little Gravel Note: Blow count influenced by gravel
80	78.0	18.5	5	15	2									76.5	20.0	Boring Terminated at Elevation 76.5 ft in Undivided Coastal Plain Material: Sandy CLAY

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Long, B.R.										
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)									
BORING NO. L1_9600		STATION 96+00		OFFSET CL		ALIGNMENT -L1-	0 HR. Dry									
COLLAR ELEV. 88.7 ft		TOTAL DEPTH 15.0 ft		NORTHING 974,611		EASTING 2,401,497	24 HR. 9.4									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 10/25/17		COMP. DATE 10/25/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100			ELEV. (ft)	DEPTH (ft)		
90														88.7	0.0	GROUND SURFACE
	87.7	1.0	6	8	8	16						D		UNDIVIDED COASTAL PLAIN Tan to Gray to Orange, Stiff to Very Stiff, Fine Sandy CLAY, Slightly Plastic		
85	85.2	3.5	8	9	7	16					D					
	82.7	6.0	3	4	6	10					M					
80	80.2	8.5	5	7	10	17					M					
75	75.2	13.5	8	8	12	20					M	73.7	15.0	Boring Terminated at Elevation 73.7 ft in Undivided Coastal Plain Material: Sandy CLAY		

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Bridge on Premier Boulevard Extension Over Chockoyotte Creek							GROUND WTR (ft)								
BORING NO. EB1-A		STATION 97+13		OFFSET 32 ft LT		ALIGNMENT -L1-									
COLLAR ELEV. 85.2 ft		TOTAL DEPTH 10.0 ft		NORTHING 974,726		EASTING 2,401,470									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 10/25/17		COMP. DATE 10/25/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
90															
85														85.2	0.0
	81.7	3.5													
80			7	6	6										
	76.7	8.5												77.6	7.6
	75.2	10.0	1	2	3									75.2	10.0
		60/0.0													60/0.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Bridge on Premier Boulevard Extension Over Chockoyotte Creek							GROUND WTR (ft)								
BORING NO. EB1-A1		STATION 97+13		OFFSET 37 ft LT		ALIGNMENT -L1-									
COLLAR ELEV. 86.0 ft		TOTAL DEPTH 11.9 ft		NORTHING 974,726		EASTING 2,401,465									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 10/27/17		COMP. DATE 10/27/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
90															
85														86.0	0.0
80															
														78.4	7.6
														76.5	9.5
														74.1	11.9
															60/0.0

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Bridge on Premier Boulevard Extension Over Chockoyotte Creek							GROUND WTR (ft)									
BORING NO. EB2-A		STATION 101+23		OFFSET 32 ft LT		ALIGNMENT -L1-										
COLLAR ELEV. 86.2 ft		TOTAL DEPTH 19.8 ft		NORTHING 975,135		EASTING 2,401,489										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 10/17/17		COMP. DATE 10/17/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
90														86.2	GROUND SURFACE	0.0
85	82.7	3.5	2	5	6									83.2	ALLUVIAL Black and Gray, Soft to Medium Stiff, Silty CLAY with Gravel, Highly Organic, Slightly Plastic, Trace Sand	3.0
80	77.7	8.5	7	11	13									75.9	RESIDUAL Orange Brown to Gray, Stiff to Very Stiff, Coarse to Fine Sandy Silty CLAY, Slightly Plastic	10.3
75	72.7	13.5	10	15	85/0.2									72.2	Brown and White, Medium Dense, Silty Coarse to Fine SAND	14.0
70	67.7	18.5	46	54/0.4										66.4	WEATHERED ROCK Brown and White Metamorphosed Quartz Diorite	19.8
	66.4	19.8	60/0.0												Boring Terminated with Standard Penetration Test Refusal at Elevation 66.4 ft on Crystalline Rock: METAMORPHOSED QUARTZ DIORITE	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Bridge on Premier Boulevard Extension Over Chockoyotte Creek							GROUND WTR (ft)									
BORING NO. EB2-B		STATION 101+23		OFFSET 32 ft RT		ALIGNMENT -L1-										
COLLAR ELEV. 87.1 ft		TOTAL DEPTH 38.7 ft		NORTHING 975,132		EASTING 2,401,553										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Meatyard, C.		START DATE 10/16/17		COMP. DATE 10/16/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
90														87.1	GROUND SURFACE	0.0
85	83.6	3.5	3	7	10									85.6	1.5' Topsoil	1.5
80	78.6	8.5	10	16	14									74.6	RESIDUAL Orange Brown to Light Brown, Medium Dense to Dense, Silty Coarse to Fine SAND, Little Rock Fragments	12.5
75	73.6	13.5	10	13	19									64.2	Red to Greenish Brown, Hard, Fine Sandy Clayey SILT	22.9
70	68.6	18.5	13	27	50										WEATHERED ROCK Greenish Brown METAMORPHOSED QUARTZ DIORITE	22.9
65	63.6	23.5	26	50	50/0.4											
60	58.6	28.5	100/0.3													
55	53.6	33.5	100/0.2													
50	48.6	38.5	100/0.2													
															Boring Terminated at Elevation 48.4 ft in Weathered Rock: METAMORPHOSED QUARTZ DIORITE	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. L1_10700		STATION 107+00		OFFSET 34 ft RT		ALIGNMENT -L1-									
COLLAR ELEV. 100.5 ft		TOTAL DEPTH 15.0 ft		NORTHING 975,688		EASTING 2,401,638									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 10/23/17		COMP. DATE 10/23/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
105															
100	99.5	1.0	5	5	8										
	97.0	3.5	5	7	8										
95	94.5	6.0	1	1	3										
	92.0	8.5	2	2	2										
90	87.0	13.5	2	3	3										

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.									
SITE DESCRIPTION Premier Boulevard Extension from NC 125 to South of US 158							GROUND WTR (ft)								
BORING NO. Y1_1089		STATION 10+89		OFFSET 15 ft LT		ALIGNMENT -Y1-									
COLLAR ELEV. 157.2 ft		TOTAL DEPTH 15.0 ft		NORTHING 968,258		EASTING 2,397,867									
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER Meatyard, C.		START DATE 12/19/17		COMP. DATE 12/19/17		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
160															
155	156.2	1.0	3	3	3										
	153.7	3.5	4	5	10										
150	151.2	6.0	4	4	5										
	148.7	8.5	5	5	6										
145	143.7	13.5	2	3	2										

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. Y3_2500		STATION 25+00		OFFSET 10 ft LT		ALIGNMENT -Y3-										
COLLAR ELEV. 134.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 972,018		EASTING 2,399,341										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 11/15/17		COMP. DATE 11/15/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
135															134.0	0.0
	133.0	1.0	5	8	12									M	GROUND SURFACE	
	130.5	3.5	5	9	11									M	UNDIVIDED COASTAL PLAIN Gray to Red to Brown, Very Stiff, Fine Sandy Silty CLAY, Moderately Plastic	
130	128.0	6.0	4	6	10									M		
	125.5	8.5	5	8	9									M	126.0	8.0
125	120.5	13.5	2	2	3									M	Gray to Red to Brown, Very Stiff, Fine Sandy CLAY, Slightly Plastic	
120														Sat.	119.5	14.5
															119.0	15.0
															Brown, Loose, Clayey Fine to Coarse SAND Boring Terminated at Elevation 119.0 ft in Undivided Coastal Plain Material: Clayey SAND	

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. Y3_2700		STATION 27+00		OFFSET CL		ALIGNMENT -Y3-										
COLLAR ELEV. 133.1 ft		TOTAL DEPTH 15.0 ft		NORTHING 971,936		EASTING 2,399,525										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 12/21/17		COMP. DATE 12/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
135															133.1	0.0
	132.1	1.0	3	4	5									M	GROUND SURFACE	
	129.6	3.5	5	7	9									M	UNDIVIDED COASTAL PLAIN Brown to Red, Stiff to Very Stiff, Fine Sandy CLAY, Slightly Plastic	
130	127.1	6.0	3	4	5									M	127.5	5.6
	124.6	8.5	3	4	5									M	Gray to Red, Stiff, Fine Sandy Silty CLAY, Moderately Plastic	
125	119.6	13.5	3	4	7									M		
120															118.1	15.0
															Boring Terminated at Elevation 118.1 ft in Undivided Coastal Plain Material: Silty CLAY Cave-In at 11.2'	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.											
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)										
BORING NO. Y5_1050LT		STATION 10+50		OFFSET 30 ft LT		ALIGNMENT -Y5-											
COLLAR ELEV. 144.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 968,938		EASTING 2,398,546											
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
145															144.0	GROUND SURFACE	0.0
	143.0	1.0													143.8	0.4' Topsoil	0.4
	140.5	3.5	4	6	8											UNDIVIDED COASTAL PLAIN Brown to Tan Brown, Medium Dense to Very Loose, Clayey Fine to Coarse SAND, Moderately Plastic	
140			5	4	5												
	138.0	6.0	1	1	1												
135			WOH	1	2												
	135.5	8.5															
	130.5	13.5	2	3	2										131.0	Tan Brown to Red, Medium Stiff, Silty CLAY, Highly Plastic	13.0
															129.0	Boring Terminated at Elevation 129.0 ft in Undivided Coastal Plain Material: Silty CLAY	15.0

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.											
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)										
BORING NO. Y5_1059RT		STATION 10+59		OFFSET 40 ft RT		ALIGNMENT -Y5-											
COLLAR ELEV. 144.5 ft		TOTAL DEPTH 10.0 ft		NORTHING 968,880		EASTING 2,398,506											
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017			DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Meatyard, C.		START DATE 11/07/17		COMP. DATE 11/07/17		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
145															144.5	GROUND SURFACE	0.0
	143.5	1.0	4	6	7										143.6	0.4' Asphalt Over 0.5' ABC	0.9
	141.0	3.5	4	5	6											ROADWAY EMBANKMENT Brown to Reddish Brown, Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic	
140															139.2		
	138.5	6.0	2	3	2											UNDIVIDED COASTAL PLAIN Tan Brown, Medium Stiff, Coarse to Fine Sandy CLAY, Slightly Plastic	
135			2	2	2										136.3		
	136.0	8.5														Tan Brown, Loose, Clayey Fine SAND, Slightly Plastic	
															134.5		
																Boring Terminated at Elevation 134.5 ft in Undivided Coastal Plain Material: Clayey SAND	

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 50162.1.1 / 37765.1.5		TIP U-5725 / R-3822		COUNTY HALIFAX		GEOLOGIST Pastrana, C.R.										
SITE DESCRIPTION Widening of NC 125 from I-95 to Old Farm Road							GROUND WTR (ft)									
BORING NO. Y6_1050LT		STATION 10+50		OFFSET 30 ft LT		ALIGNMENT -Y6-										
COLLAR ELEV. 97.0 ft		TOTAL DEPTH 15.0 ft		NORTHING 975,369		EASTING 2,401,589										
DRILL RIG/HAMMER EFF./DATE AME9533 CME-550X 80% 12/15/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Meatyard, C.		START DATE 10/23/17		COMP. DATE 10/23/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100			ELEV. (ft)	DEPTH (ft)		
100														97.0	0.0	GROUND SURFACE
95	96.0	1.0	2	3	3							M		94.1	2.9	ARTIFICIAL FILL Brown to Black, Medium Stiff, Silty Coarse to Fine Sandy CLAY, Slightly Plastic, Moderately Organic
	93.5	3.5	10	13	20									91.5	5.5	UNDIVIDED COASTAL PLAIN Gray, Coarse to Fine Sandy CLAY, Slightly Plastic, Some Gravel, Trace Organics Note: Blow count influenced by gravel
90	91.0	6.0	1	3	2							M				Gray, Medium Stiff, Silty Fine to Coarse Sandy CLAY, Moderately Plastic, Thin (1" to 2" Thick) Sand Lenses
	88.5	8.5	WOH	1	2							SS-34	32%			
85	83.5	13.5	7	9	9							M		84.8	12.2	RESIDUAL Reddish Brown to Brown, Very Stiff, Fine Sandy SILT, Saprolitic
														82.0	15.0	Boring Terminated at Elevation 82.0 ft in Residual: Sandy SILT

NCDOT BORE DOUBLE U5725_R3822_GEO_GINTLOGS_ALL BORINGS.GPJ NC_DOT.GDT 2/6/18

PROJECT REFERENCE NO.	SHEET NO.
U-5725/R-3822	265

REFERENCE: U-5725/R-3822

PROJECT: 50162 / 37765

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

SUBSURFACE INVESTIGATION

**APPENDIX B
SOIL TEST RESULTS**

SOILS LABORATORY TESTS RESULTS

WBS NO.: 50162.1.1 / 37765.1.6

TIP NO.: U-5725 / R3822

COUNTY: HALIFAX

SITE DESCRIPTION: NC 125 (-L-) FROM I-95 TO OLD FARM ROAD AND PREMIER BOULEVARD EXTENSION (-L1-) FROM NC 125 TO SOUTH OF US 158

SAMPLE NO.	ALIGNMENT	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS	N	L.L	P.I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
									CSE. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-1	-L-	17+00	46' RT	3.5-5.0	A-2-6 (0)	5	32	16	46	25	7	22	100	83	30	15.5	-
SS-2	-L-	19+05	57' RT	1.0-2.5	A-2-4 (0)	7	NP	NP	41	42	4	13	100	91	19	7.5	-
SS-3	-L-	21+23	45' LT	3.5-5.0	A-6 (1)	7	33	15	28	37	6	29	99	93	37	16.0	-
SS-4	-L-	27+00	20' LT	3.5-5.0	A-7-6 (10)	16	49	29	17	35	7	41	98	90	49	21.8	-
SS-5	-L-	31+00	40' LT	3.5-5.0	A-7-6 (8)	20	46	24	18	32	10	40	94	90	49	25.7	-
SS-6	-L-	35+00	40' LT	6.0-7.5	A-7-6 (29)	19	67	43	8	28	10	54	100	99	69	23.3	-
SS-7	-L-	39+00	20' LT	1.0-2.5	A-6 (4)	18	39	19	30	30	8	32	100	83	44	11.9	-
SS-8	-L-	43+00	20' LT	13.5-15.0	A-2-6 (1)	7	38	14	13	53	7	27	100	99	35	21.8	-
SS-9	-L-	49+00	40' LT	3.5-5.0	A-6 (2)	20	38	12	12	47	7	34	100	98	43	18.7	-
SS-10	-L-	49+00	40' LT	8.5-10.0	A-2-5 (0)	10	42	10	66	10	8	16	99	53	25	13.2	-
SS-11	-L-	55+00	40' LT	3.5-5.0	A-7-6 (10)	16	48	26	23	28	9	40	100	91	51	21.0	-
SS-12	-L-	65+00	3' LT	6.0-7.5	A-7-6 (27)	16	55	34	6	21	26	47	100	98	79	21.8	-
SS-13	-L-	73+00	30' RT	1.0-2.5	A-4 (2)	4	21	5	3	20	53	24	100	98	84	23.8	-
SS-14	-L-	81+00	52' LT	1.0-2.5	A-2-6 (0)	2	26	11	42	27	13	18	79	57	27	18.1	2.3
SS-15	-L-	87+00	103' LT	8.5-10.0	A-2-4 (0)	2	NP	NP	50	27	15	8	86	62	24	13.8	1.5
SS-16	-L-	87+00	103' LT	18.5-20.0	A-2-4 (0)	4	NP	NP	69	20	6	5	89	52	11	19.4	-
SS-17	-L1-	24+00	32' RT	3.5-5.0	A-3 (1)	5	NP	NP	23	73	1	3	100	89	8	6.3	-
SS-18	-L1-	26+19	50' LT	1.0-2.5	A-2-4 (0)	13	23	9	29	41	6	24	100	93	33	9.9	-
SS-19	-L1-	32+00	30' RT	13.5-15.0	A-7-6 (15)	4	46	24	12	22	23	43	100	97	69	37.9	-
SS-20	-L1-	34+00	34' RT	1.0-2.5	A-4 (0)	0	26	10	44	21	13	22	99	76	37	23.8	1.4
SS-21	-L1-	34+00	34' RT	8.5-10.0	A-2-4 (0)	2	25	3	68	13	6	13	100	89	20	30.7	-
SS-22	-L1-	36+00	20' RT	1.0-2.5	A-7-5 (9)	14	76	39	52	8	5	35	99	61	40	18.6	-
SS-23	-L1-	40+00	CL	3.5-5.0	A-7-6 (16)	8	49	22	6	29	23	42	100	99	71	21.4	-
ST-1	-L1-	40+00	CL	8.3-10.1	A-4 (0)	N/A	22	4	31	35	13	21	100	90	38	27.8	-
SS-24	-L1-	44+00	20' RT	6.0-7.5	A-7-5 (44)	10	70	39	1	6	31	62	100	99	95	34.5	-
SS-25	-L1-	88+00	30' RT	8.5-10.0	A-7-6 (42)	2	63	42	6	3	34	57	100	97	91	50.1	-
SS-26	-L1-	90+00	CL	1.0-2.5	A-2-4 (0)	40	25	7	45	33	5	17	64	46	16	7.3	-
SS-27	-L1-	94+00	10' RT	3.5-5.0	A-2-6 (0)	9	32	13	67	13	7	13	71	32	16	11.1	1.2
SS-28	-L1-	103+00	CL	13.5-15.0	A-7-6 (14)	16	52	30	28	18	24	30	100	86	56	17.8	-
SS-29	-Y3-	13+00	CL	6.0-7.5	A-7-6 (4)	18	42	16	17	40	8	35	100	93	44	15.8	-
SS-30	-Y3-	19+00	CL	6.0-7.5	A-7-6 (25)	17	57	32	11	18	25	46	100	95	76	26.7	-
SS-31	-Y3-	21+00	10' RT	8.5-10.0	A-7-5 (52)	15	77	45	0	5	32	63	100	100	97	30.9	-
SS-32	-Y4-	15+50	40' RT	3.5-5.0	A-2-4 (0)	5	21	8	39	25	17	19	77	62	30	12.4	-
SS-33	-Y5-	10+50	30' LT	3.5-5.0	A-2-7 (0)	9	53	19	62	8	5	25	93	55	29	21.1	-
SS-34	-Y6-	10+50	30' LT	8.5-10.0	A-7-6 (4)	3	46	25	52	10	14	24	98	73	39	32.1	-

Signed: 

NCDOT Certification No.

129-04-0411



MOISTURE DENSITY RELATIONSHIP
AASHTO T99-10

Client: ESP Associates
 Client Reference: R-3822 FQ32.300. Task 1
 Project No.: R-2017-878-002
 Lab ID: R-2017-878-002-001

Boring No.: 36+00 25 LT
 Depth (ft): NA
 Sample No.: CBR-1
 Test Method: **STANDARD**

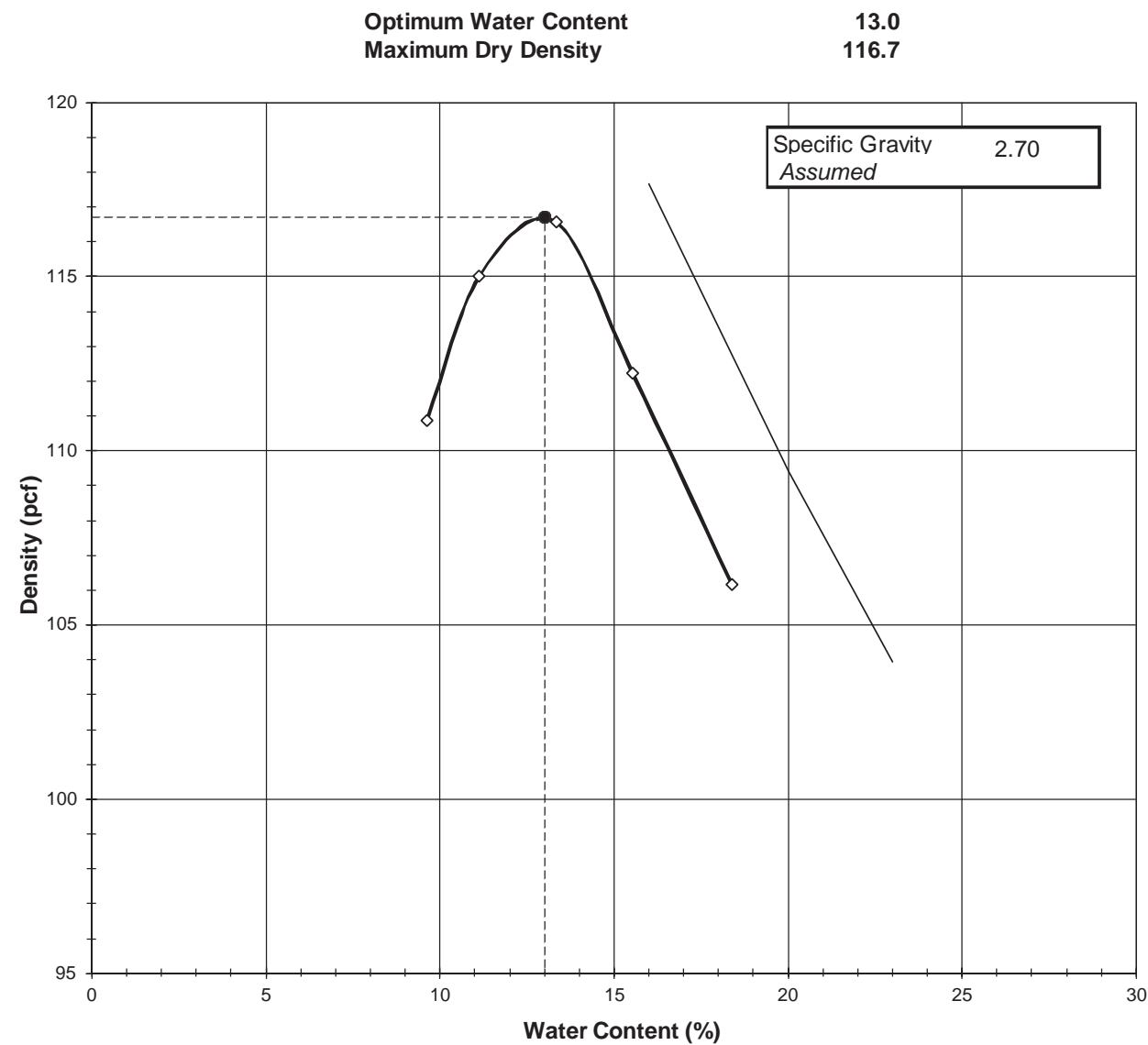
Visual Description: BROWN SILTY SANDY CLAY

MOISTURE - DENSITY RELATIONSHIP
AASHTO T99-10

Client: ESP Associates
 Client Reference: R-3822 FQ32.300. Task 1
 Project No.: R-2017-878-002
 Lab ID: R-2017-878-002-001

Boring No.: 36+00 25 LT
 Depth (ft): NA
 Sample No.: CBR-1

Visual Description: BROWN SILTY SANDY CLAY



Total Weight of the Sample (g)	NA
As Received Water Content (%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	B

Test Type	STANDARD
Rammer Weight (lb)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R 174
Mold ID	R 552
Mold diameter	4"
Weight of the Mold (g)	4243
Volume of the Mold (cm ³)	943

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & Wet Sample (g)	6080	6175	6239	6202	6142
Wt. of Mold (g)	4243	4243	4243	4243	4243
Wt. of Wet Sample (g)	1837	1932	1997	1960	1900
Mold Volume (cm ³)	943	943	943	943	943

Moisture Content / Density

Tare Number	905	913	SS-3	904	SS-1
Wt. of Tare & Wet Sample (g)	523.10	506.90	505.60	539.10	633.10
Wt. of Tare & Dry Sample (g)	486.11	466.32	457.96	479.96	550.30
Wt. of Tare (g)	101.70	101.80	100.50	99.40	100.00
Wt. of Water (g)	36.99	40.58	47.64	59.14	82.80
Wt. of Dry Sample (g)	384.41	364.52	357.46	380.56	450.30

Wet Density (g/cm ³)	1.95	2.05	2.12	2.08	2.01
Wet Density (pcf)	121.5	127.8	132.1	129.7	125.7
Moisture Content (%)	9.6	11.1	13.3	15.5	18.4
Dry Density (pcf)	110.9	115.0	116.6	112.2	106.2

Zero Air Voids

Moisture Content (%)	16.0	20.0	23.0
Dry Unit Weight (pcf)	117.7	109.4	103.9

Tested By APG Date 12/20/17 Checked By GEM Date 1/2/18
 page 1 of 2 DCN:CT-S12 DATE:5/1/13 REVISION: 14 PROCTOR.xls

Tested By APG Date 12/20/17 Checked By GEM Date 1/2/18
 page 2 of 2 DCN:CT-S12 DATE:5/1/13 REVISION: 14 PROCTOR.xls



SINGLE POINT CBR TEST
AASHTO T-193

Client	ESP Associates	Boring No.	36+00 25 LT
Client Reference	R-3822 FQ32.300, Task 1	Depth(ft.)	NA
Project No.	R-2017-878-002	Sample No.	CBR-1
Lab ID	R-2017-878-002-001	Visual Description	BROWN SILTY SANDY CLAY

Test Type	STANDARD				
Molding Method	C	Density Measurement	Before Soaking	After Soaking	
Mold ID	R354	Wt. Mold & WS (gm.)	8734.1	8780.4	
Wt. of Mold (gm.)	4208.3	Wt. WS (gm.)	4525.8	4572	
Mold Volume (cc)	2123	Sample Volume (cc)	2123	2120	
Surcharge (lbs.)	15	Wet Density (gm./cc)	2.13	2.16	
Piston Area (in ²)	3	Wet Density (pcf)	133.0	134.6	
Sample Height	4.58				
Sample Conditions	Soaked				
Blows per Layer	56	Dry Density (pcf)	118.0	119.1	
		Dry Density (gm./cc)	1.89	1.91	

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	906	812	SS-4		AF-05	BE-01
Wt. of T+WS (gm.)	361	387.72	393.61		983.22	649.33
Wt. of T+DS (gm.)	341.19	355.49	360.8		896.19	591.82
Wt of Tare (gm.)	102.37	106.65	99.22		228.16	228.15
Moisture Content(%)	8.3	13.0	12.5	12.7	13.0	15.8

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	2	0.7			
0.025	57	19.0			
0.050	124	41.3			
0.075	183	61.0			
0.100	229	76.3	0.00	396	0.00%
0.125	270	90.0	28.50	391	-0.11%
0.150	310	103.3	44.08	390	-0.13%
0.175	341	113.7			
0.200	375	125.0			
0.250	441	147.0			
0.300	506	168.7			
0.350	568	189.3			
0.400	625	208.3			
0.450	681	227.0			
0.500	732	244.0			
0.550	784	261.3			
0.600	829	276.3			

1Division = 0.001 in.

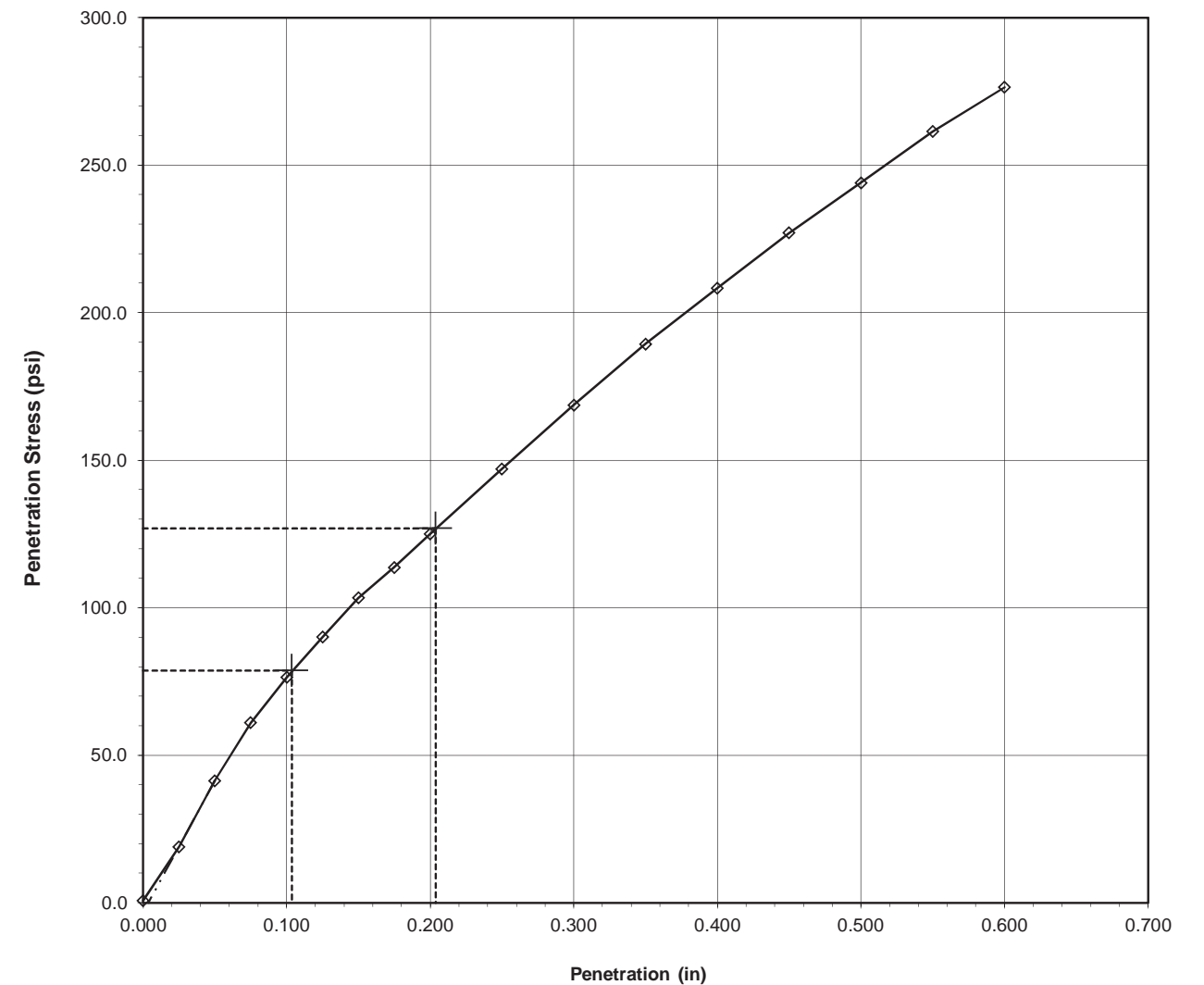
Tested By 129-04-0411 Date 1/3/18 Checked By GEM Date 1/9/18

SINGLE POINT CBR TEST
AASHTO T-193

Client	ESP Associates	Boring No.	36+00 25 LT
Client Reference	R-3822 FQ32.300, Task 1	Depth(ft.)	NA
Project No.	R-2017-878-002	Sample No.	CBR-1
Lab ID	R-2017-878-002-001	Visual Description	BROWN SILTY SANDY CLAY

CBR VALUE (0.1")	7.6 %
CBR VALUE (0.2")	8.3 %
CORRECTED CBR VALUE (0.1")	7.9 %
CORRECTED CBR VALUE (0.2")	8.5 %

Penetration Stress vs. Penetration



Tested By 129-04-0411 Date 1/3/18 Approved By MPS Date 1/9/18



MOISTURE DENSITY RELATIONSHIP
AASHTO T99-10

January 11, 2018

Project No. R-2017-878-002

Mr. Paul Weaver, P.G.
ESP Associates, P.A.
7011 Albert Pick Rd., Suite E
Greensboro, NC 27409

pweaver@espassociates.com

Transmittal
Laboratory Test Results
R-3822 FQ32.300. Task 1

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectively submitted,
Geotechnics, Inc.

Michael P. Smith
Michael P. Smith
Regional Manager

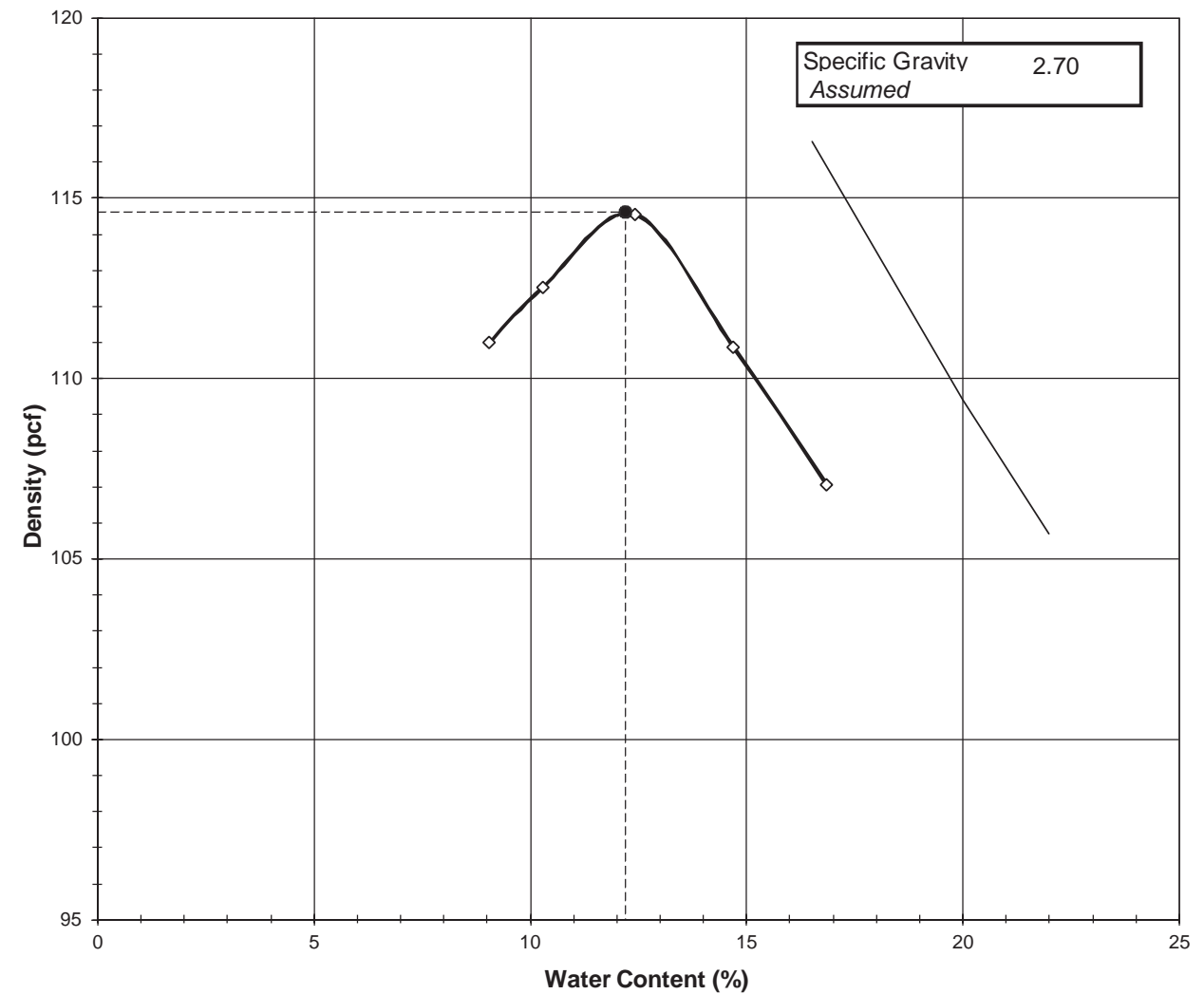
***We understand that you have a choice in your laboratory services
and we thank you for choosing Geotechnics.***

Client: ESP Associates
Client Reference: R-3822 FQ32.300. Task 1
Project No.: R-2017-878-002
Lab ID: R-2017-878-002-002

Boring No.: 73+00 25 RT
Depth (ft): NA
Sample No.: CBR-4
Test Method: **STANDARD**

Visual Description: BROWN SANDY SILT

Optimum Water Content 12.2
Maximum Dry Density 114.6



Tested By APG Date 12/20/17 Checked By GEM Date 1/2/18

page 1 of 2 DCN-CT-S12 DATE:5/1/13 REVISION: 14

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MOISTURE - DENSITY RELATIONSHIP

AASHTO T99-10

Client: ESP Associates Boring No.: 73+00 25 RT
 Client Reference: R-3822 FQ32.300. Task 1 Depth (ft): NA
 Project No.: R-2017-878-002 Sample No.: CBR-4
 Lab ID: R-2017-878-002-002

Visual Description: BROWN SANDY SILT

Total Weight of the Sample (g)	NA	Test Type	STANDARD
As Received Water Content (%)	NA	Rammer Weight (lb)	5.5
Assumed Specific Gravity	2.70	Rammer Drop (in)	12
Percent Retained on 3/4"	NA	Rammer Type	MECHANICAL
Percent Retained on 3/8"	0	Machine ID	R 174
Percent Retained on #4	0	Mold ID	R 552
Oversize Material	Not included	Mold diameter	4"
Procedure Used	B	Weight of the Mold (g)	4243
		Volume of the Mold (cm ³)	943

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & Wet Sample (g)	6072	6119	6189	6165	6134
Wt. of Mold (g)	4243	4243	4243	4243	4243
Wt. of Wet Sample (g)	1830	1876	1947	1922	1891
Mold Volume (cm ³)	943	943	943	943	943

Moisture Content / Density

Tare Number	914	911	908	912	906
Wt. of Tare & Wet Sample (g)	512.80	580.00	511.20	600.60	690.30
Wt. of Tare & Dry Sample (g)	478.72	535.36	466.03	536.63	605.53
Wt. of Tare (g)	102.10	101.90	102.00	101.20	102.30
Wt. of Water (g)	34.08	44.64	45.17	63.97	84.77
Wt. of Dry Sample (g)	376.62	433.46	364.03	435.43	503.23

Wet Density (g/cm ³)	1.94	1.99	2.06	2.04	2.01
Wet Density (pcf)	121.0	124.1	128.8	127.2	125.1
Moisture Content (%)	9.0	10.3	12.4	14.7	16.8
Dry Density (pcf)	111.0	112.5	114.6	110.9	107.1

Zero Air Voids

Moisture Content (%)	16.5	20.0	22.0
Dry Unit Weight (pcf)	116.6	109.4	105.7

Tested By APG Date 12/20/17 Checked By GEM Date 1/2/18

SINGLE POINT CBR TEST

AASHTO T-193

Client: ESP Associates Boring No.: 73+00 25 RT
 Client Reference: R-3822 FQ32.300, Task 1 Depth(ft.): NA
 Project No.: R-2017-878-002 Sample No.: CBR-4
 Lab ID: R-2017-878-002-002 Visual Description: BROWN SANDY SILT

Test Type	STANDARD	Density Measurement	Before Soaking	After Soaking
Molding Method	C	Wt. Mold & WS (gm.)	8623.8	8657.2
Mold ID	R359	Wt. WS (gm.)	4448	4481
Wt. of Mold (gm.)	4175.8	Sample Volume (cc)	2118	2117
Mold Volume (cc)	2118	Wet Density (gm./cc)	2.10	2.12
Surcharge (lbs.)	15	Wet Density (pcf)	131.0	132.1
Piston Area (in ²)	3	Dry Density (pcf)	116.4	117.0
Sample Height	4.58	Dry Density (gm./cc)	1.87	1.88
Sample Conditions	Soaked			
Blows per Layer	56			

Water Contents	As Rec'd	Beginning Compaction	After Compaction	Before Soaking	After Soaking	Top 1" After Soak
Tare No.	AF-10	921	924	919	917	
Wt. of T+WS (gm.)	583.51	645.31	1176.47	1118	761.32	
Wt. of T+DS (gm.)	543.5	598.2	1069.92	1015.76	694.16	
Wt of Tare (gm.)	227.05	223.22	222.11	220.22	223.54	
Moisture Content(%)	12.6	12.6	12.6	12.6	12.9	14.3

Piston Displacement (in.)	Load (lbs.)	Penetration Stress (psi.)	Swell Measurement		
			Elapsed Time (hrs)	Dial Gauge (Div)	Percent Swell
0	8.28	2.8			
0.025	32.95	11.0			
0.050	63.06	21.0			
0.075	96.61	32.2			
0.100	135.15	45.0	0.00	416	0.00%
0.125	175.03	58.3	19.00	414	-0.04%
0.150	216.48	72.2	44.67	414	-0.04%
0.175	258.48	86.2			
0.200	300.05	100.0			
0.250	385.13	128.4			
0.300	474.96	158.3			
0.350	566.49	188.8			
0.400	662.76	220.9			
0.450	762.99	254.3			
0.500	868.96	289.7			
0.550	974.42	324.8			
0.600	1083.41	361.1			

1Division = 0.001 in.

Tested By APG Date 1/8/18 Checked By GEM Date 1/11/18

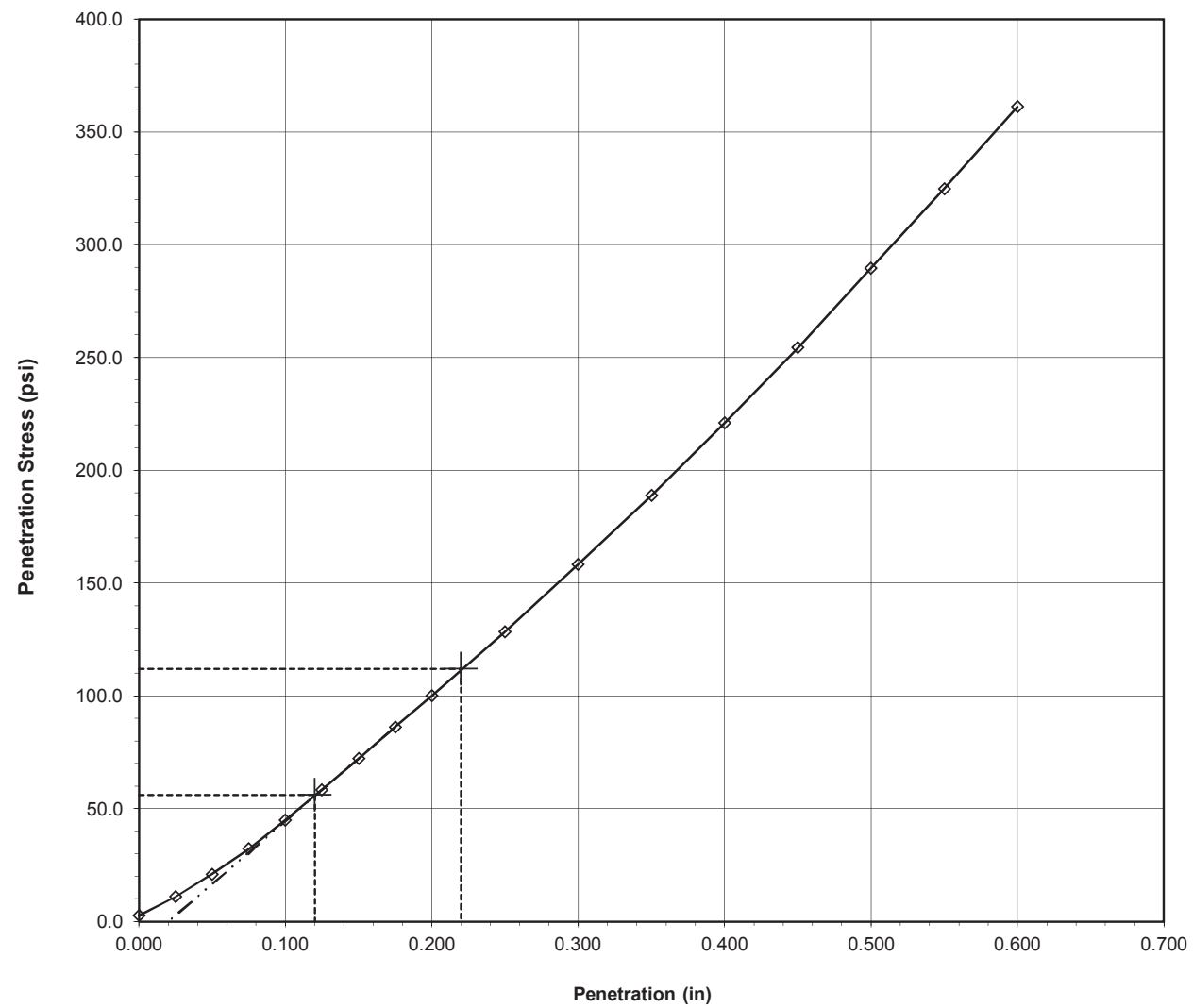


SINGLE POINT CBR TEST
AASHTO T-193

Client	ESP Associates	Boring No.	73+00 25 RT
Client Reference	R-3822 FQ32.300, Task 1	Depth(ft.)	NA
Project No.	R-2017-878-002	Sample No.	CBR-4
Lab ID	R-2017-878-002-002	Visual Description	BROWN SANDY SILT

CBR VALUE (0.1")	4.5 %
CBR VALUE (0.2")	6.7 %
CORRECTED CBR VALUE (0.1")	5.6 %
CORRECTED CBR VALUE (0.2")	7.5 %

Penetration Stress vs. Penetration



Tested By *APG* Date *1/8/18* Approved By *MPS* Date *1/11/18*

PROJECT REFERENCE NO.	SHEET NO.
U-5725/R-3822	272

REFERENCE: U-5725/R-3822

PROJECT: 50162 / 37765

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

SUBSURFACE INVESTIGATION

APPENDIX C

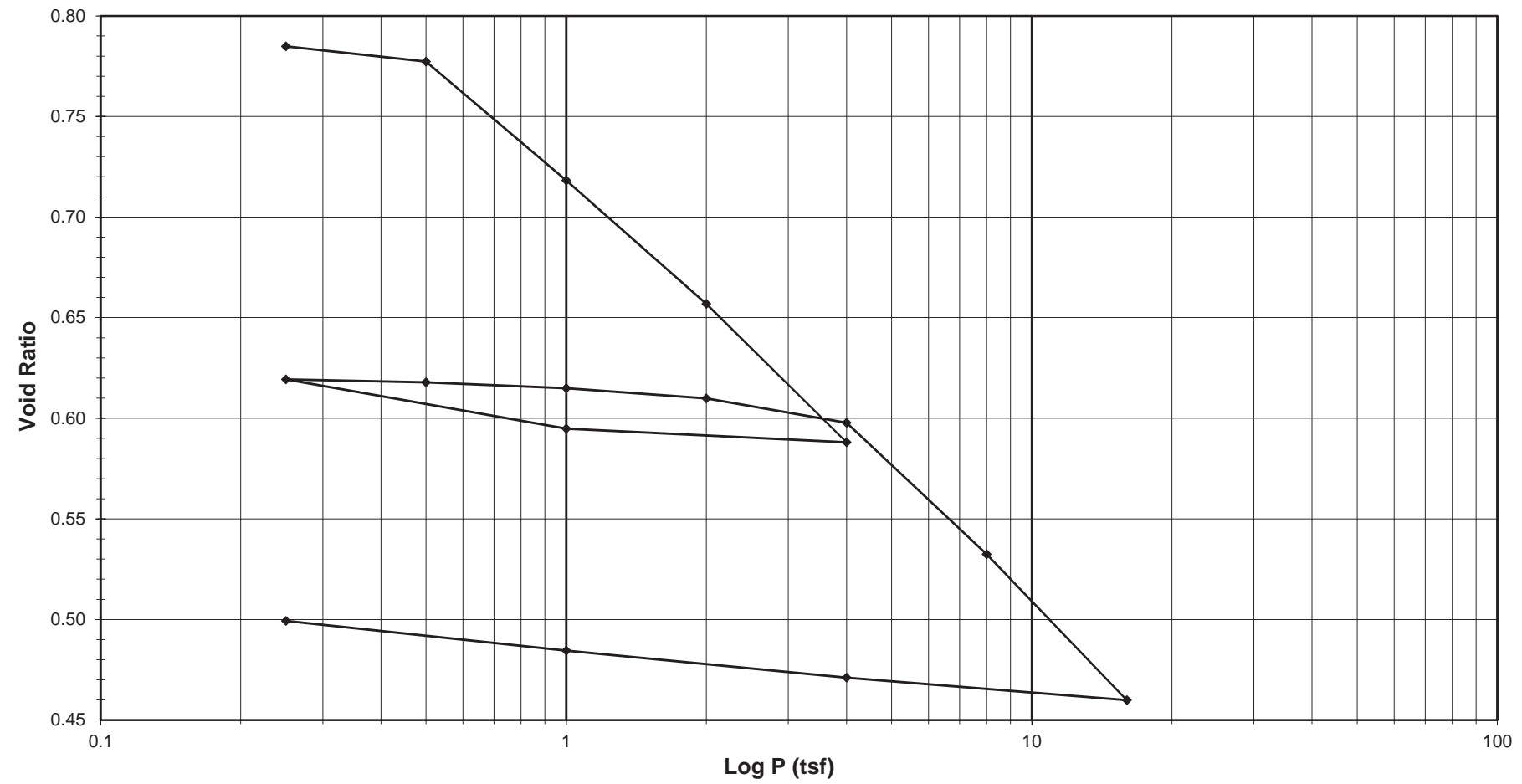
L1_4000_ST1 CONSOLIDATION TEST RESULTS



ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

Client	ESP Associates	Boring No.	L1_4000
Client Reference	R-3822 FQ32.300, Task 1	Depth (ft)	8.3-10.1
Project No.	R-2017-878-001	Sample No.	ST-1
Lab ID	R-2017-878-001-008	Visual Description	WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By |29-04-041| Date 12/1/17 Approved By MPS Date 12/18/17



ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	ESP Associates	Boring No.	L1_4000
Client Reference	R-3822 FQ32.300, Task 1	Depth (ft)	8.3-10.1
Project No.	R-2017-878-001	Sample No.	ST-1
Lab ID	R-2017-878-001-008	Visual Description	WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. R470

1 Division = 0.0001 (in.)

<u>Sample Properties</u>	<u>Initial</u>	<u>Final</u>	<u>Test Data Summary</u>							
			<u>Applied Pressure</u>	<u>Final Dial Reading</u>	<u>Machine Deflection</u>	<u>Corrected Reading</u>	<u>Height of Sample</u>	<u>Volume (cc)</u>	<u>Dry Density</u>	<u>Void Ratio</u>
			(tsf)	(div)	(div)	(div)	(mm)		(g/cc)	
<i>Water Content</i>										
Tare Number	810	904								
Wt. Tare & WS (g)	432.63	239.86								
Wt. Tare & DS (g)	362.98	217.18								
Wt. Water (g)	69.65	22.68	Seating	0	0	0	25.400	80.440	1.47092	0.81519
Wt. Tare (g)	112.41	99.45	0.25	190.0	22.9	167.1	24.976	79.096	1.49591	0.78486
Wt. DS (g)	250.57	117.73	0.5	244.8	36.1	208.7	24.870	78.761	1.50228	0.77730
Water Content (%)	27.80	19.26	1	582.9	48.4	534.5	24.042	76.141	1.55398	0.71817
			2	941.4	68.9	872.4	23.184	73.422	1.61152	0.65682
<i>Sample Parameters</i>										
Sample Diameter (in)	2.5	2.5	4	1349.3	97.7	1251.6	22.221	70.372	1.68136	0.58800
Sample Height (in)	1.0000	0.8260	1	1276.5	62.6	1213.9	22.317	70.675	1.67415	0.59483
Sample Volume (cc)	80.44	66.44	0.25	1117.8	38.5	1079.3	22.658	71.758	1.64890	0.61927
Wt. Wet Sample + Ring (g)	365.95	355.85	0.5	1128.9	42.2	1086.8	22.640	71.698	1.65027	0.61792
Wt. of Ring (g)	214.74	214.74	1	1157.5	54.2	1103.3	22.598	71.565	1.65334	0.61491
Wt. of Wet Sample (g)	151.21	141.11	2	1203.5	72.6	1130.9	22.527	71.343	1.65849	0.60990
Wet Density (pcf)	117.30	132.53	4	1296.0	98.0	1198.1	22.357	70.802	1.67114	0.59771
Wet Density (g/cc)	1.88	2.12	8	1688.6	130.8	1557.8	21.443	67.909	1.74234	0.53242
Water Content (%)	27.80	19.26	16	2134.4	177.2	1957.3	20.429	64.696	1.82888	0.45991
Wt. of Dry Sample (g)	118.32	118.32	4	2025.1	129.1	1896.0	20.584	65.189	1.81506	0.47103
Dry Density (pcf)	91.79	111.12	1	1910.3	88.3	1822.0	20.772	65.784	1.79863	0.48446
Dry Density (g/cc)	1.47	1.78	0.25	1800.6	60.6	1740.0	20.980	66.443	1.78078	0.49934
Void Ratio	0.8152	0.4993								
Saturation (%)	91.04	103.01								
Specific Gravity	2.67	Measured								

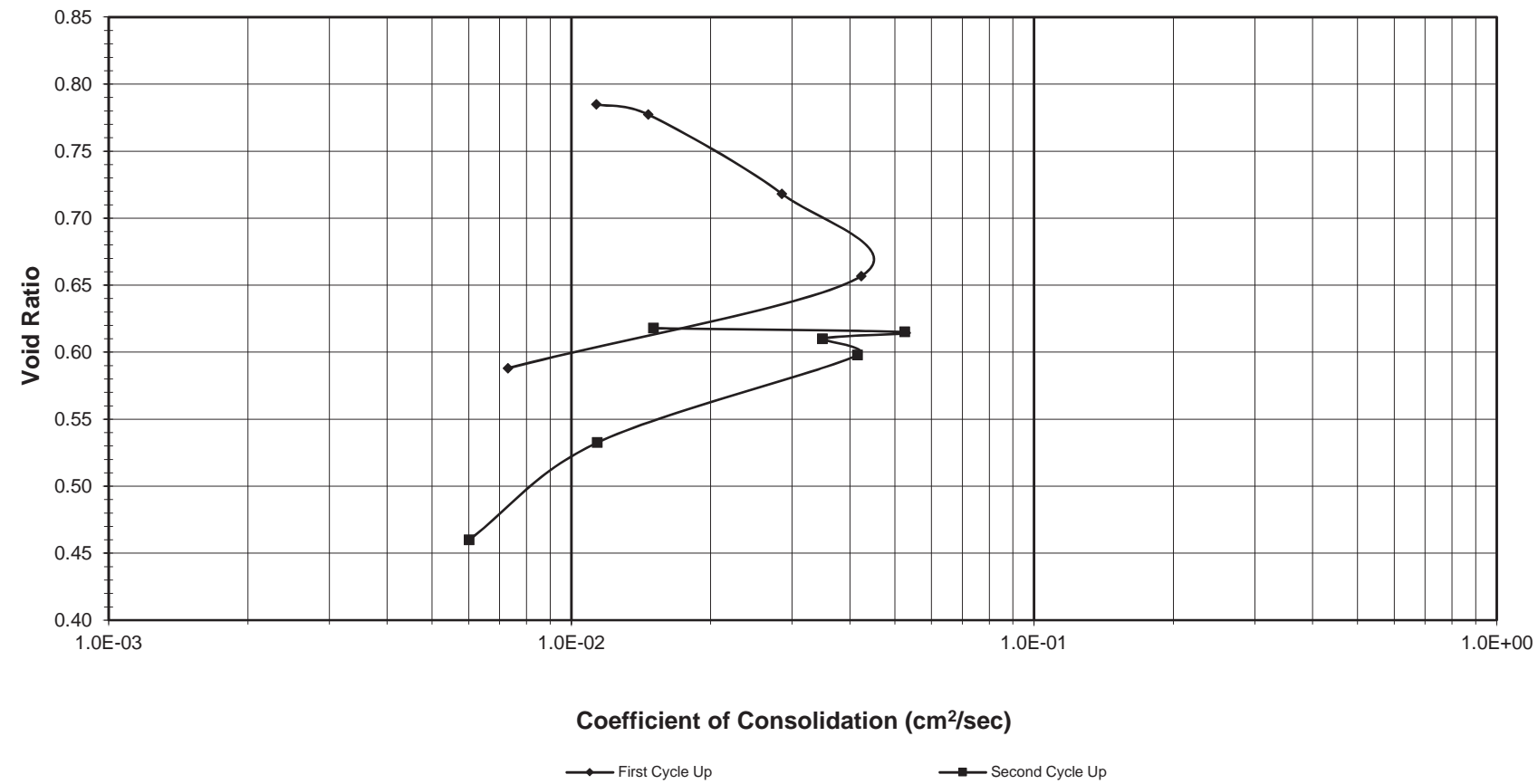
Tested By 129-04-0411 Date 12/1/17 Input Checked By GEM Date 12/18/17



ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

Client	ESP Associates	Boring No.	L1_4000
Client Reference	R-3822 FQ32.300, Task 1	Depth (ft)	8.3-10.1
Project No.	R-2017-878-001	Sample No.	ST-1
Lab ID	R-2017-878-001-008	Visual Description	WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By 129-04-0411 Date 12/1/17 Input Checked By GEM Date 12/18/17



ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

Client	ESP Associates	Boring No.	L1_4000
Client Reference	R-3822 FQ32.300, Task 1	Depth (ft)	8.3-10.1
Project No.	R-2017-878-001	Sample No.	ST-1
Lab ID	R-2017-878-001-008	Visual Description	WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. R470

1 Division = 0.0001 (in.)

Sample Properties	Initial	Final	C _v Test Data Summary					Time t ₅₀ (min.)	C _v (cm ² /sec)
			Load Increment (tsf)	Dial Reading @ t ₅₀ (div)	Machine Deflection (div)	Corrected Dial Reading @ t ₅₀ (div)	Sample Height @ t ₅₀ (cm)		
Water Content									
Tare Number	810	904							
Wt. Tare & WS (g)	432.63	239.86							
Wt. Tare & DS (g)	362.98	217.18							
Wt. Water (g)	69.65	22.68	0 - 0.25	106.1	22.9	83.2	2.519	0.46	
Wt. Tare (g)	112.41	99.45	0.25 - 0.5	192.1	36.1	156.0	2.500	0.35	
Wt. DS (g)	250.57	117.73	0.5 - 1.0	480.7	48.4	432.3	2.430	0.17	
Water Content (%)	27.80	19.26	1.0 - 2.0	692.7	68.9	623.8	2.382	0.11	
			2.0 - 4.0	1159.8	97.7	1062.1	2.270	0.58	
Sample Parameters			4.0 - 1.0	NA	62.6	NA	NA	NA	
Sample Diameter (in)	2.5	2.5	1.0 - 0.25	NA	38.5	NA	NA	NA	
Sample Height (in)	1.000	0.826	0.25 - 0.5	1123.4	42.2	1081.2	2.265	0.28	
Sample Volume (cc)	80.44	66.44	0.5 - 1.0	1142.8	54.2	1088.5	2.264	0.08	
Wt. Wet Sample + Ring (g)	365.95	355.85	1.0 - 2.0	1184.2	72.6	1111.6	2.258	0.12	
Wt. of Ring (g)	214.74	214.74	2.0 - 4.0	1243.9	98.0	1145.9	2.249	0.10	
Wt. of Wet Sample (g)	151.21	141.11	4.0 - 8.0	1463.3	130.8	1332.4	2.202	0.35	
Wet Density (pcf)	117.30	132.53	8.0 - 16.0	1924.1	177.2	1746.9	2.096	0.60	
Wet Density (g/cc)	1.88	2.12	16.0 - 4.0	NA	129.1	NA	NA	NA	
Water Content (%)	27.80	19.26	4.0 - 1.0	NA	88.3	NA	NA	NA	
Wt. of Dry Sample (g)	118.32	118.32	1.0 - 0.25	NA	60.6	NA	NA	NA	
Dry Density (pcf)	91.79	111.12							
Dry Density (g/cc)	1.47	1.78							
Void Ratio	0.8152	0.4993							
Saturation (%)	91.04	103.01							
Specific Gravity	2.67	Measured							

Tested By 129-04-0411 Date 12/1/17 Input Checked By GEM Date 12/18/17

page 4 of 4

DCN: CT-24E Date: 5/3/12 Revision: 6

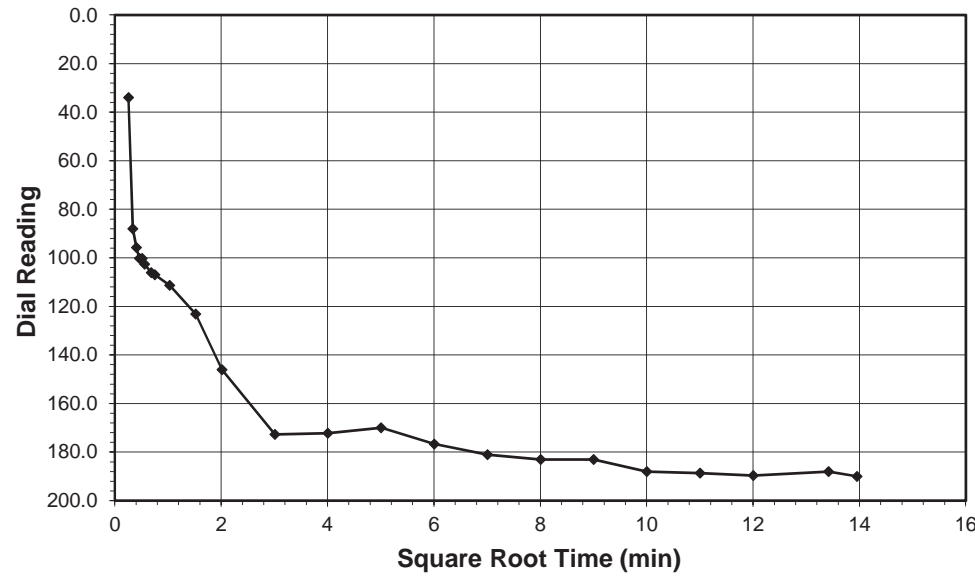
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ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



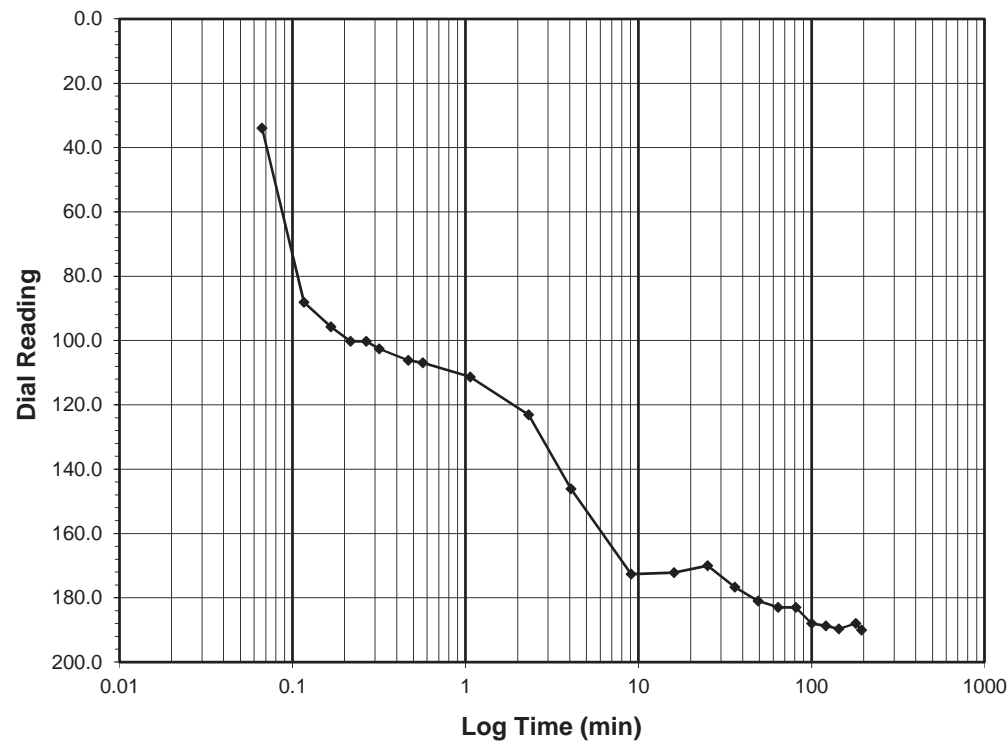
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 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.0-0.25
 Final Reading (div) 190.0
 Consolidometer No. R470
 1 Division (in) 0.0001
 Start Date 12/1/17
 Start Time 13:22:23

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.07	34.0
0.12	88.1
0.17	95.8
0.22	100.2
0.27	100.2
0.32	102.6
0.47	106.2
0.57	106.9
1.07	111.4
2.32	123.1
4.07	146.1
9.07	172.7
16.07	172.2
25.07	170.0
36.07	176.6
49.07	181.0
64.08	183.0
81.08	183.0
100.08	188.0
121.08	188.7
144.08	189.7
180.08	188.0
194.67	190.0

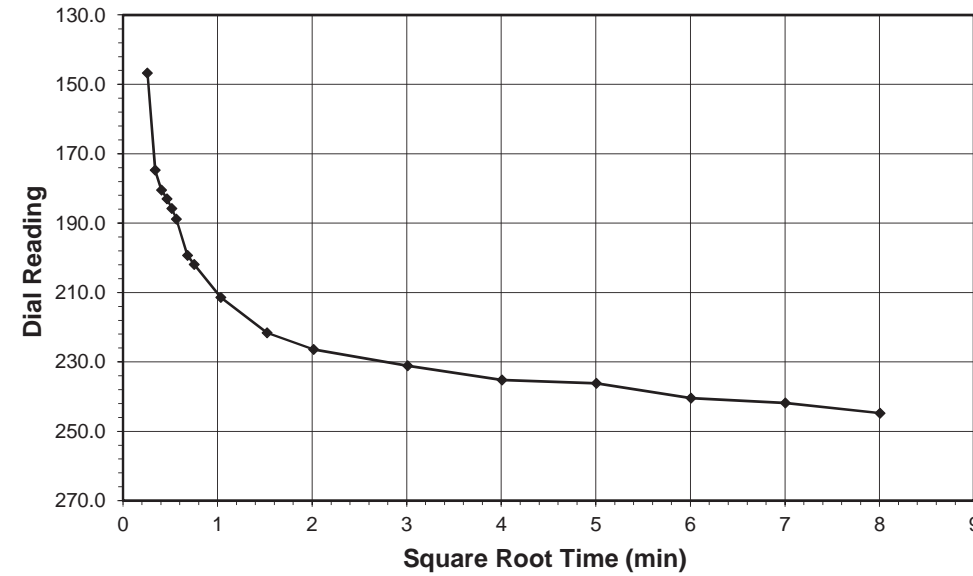


ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



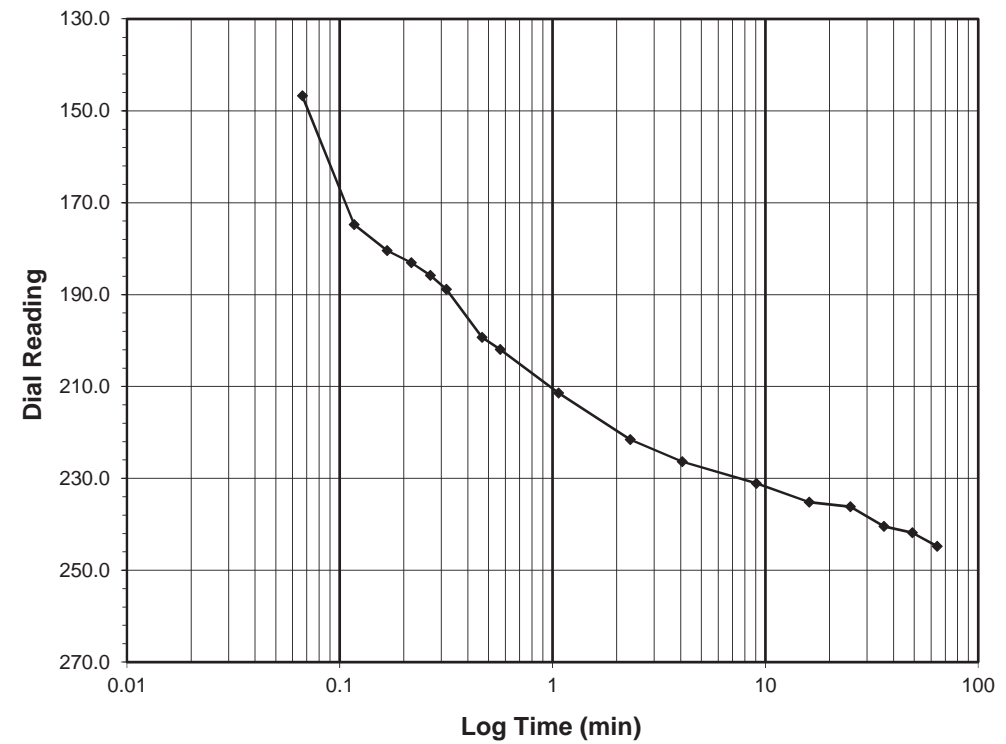
Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5
 Final Reading (div) 244.8
 Consolidometer No. R470
 1 Division (in) 0.0001
 Start Date 12/1/17
 Start Time 16:37:03

Elapsed Time (min)	Dial Reading (div)
Initial	190.0
0.07	146.8
0.12	174.7
0.17	180.4
0.22	183.0
0.27	185.8
0.32	188.8
0.47	199.3
0.57	202.0
1.07	211.4
2.32	221.6
4.07	226.4
9.07	231.1
16.07	235.2
25.07	236.2
36.07	240.4
49.07	241.9
64.08	244.8



Tested By 129-04-0411 Date 12/1/17 Checked By GEM Date 12/18/17

Tested By 129-04-0411 Date 12/1/17 Checked By GEM Date 12/18/17

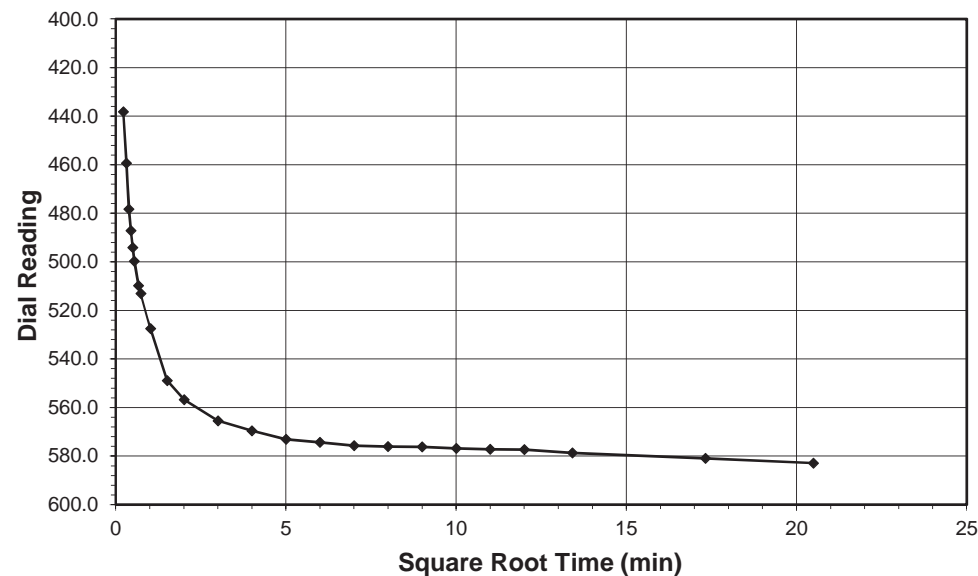
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



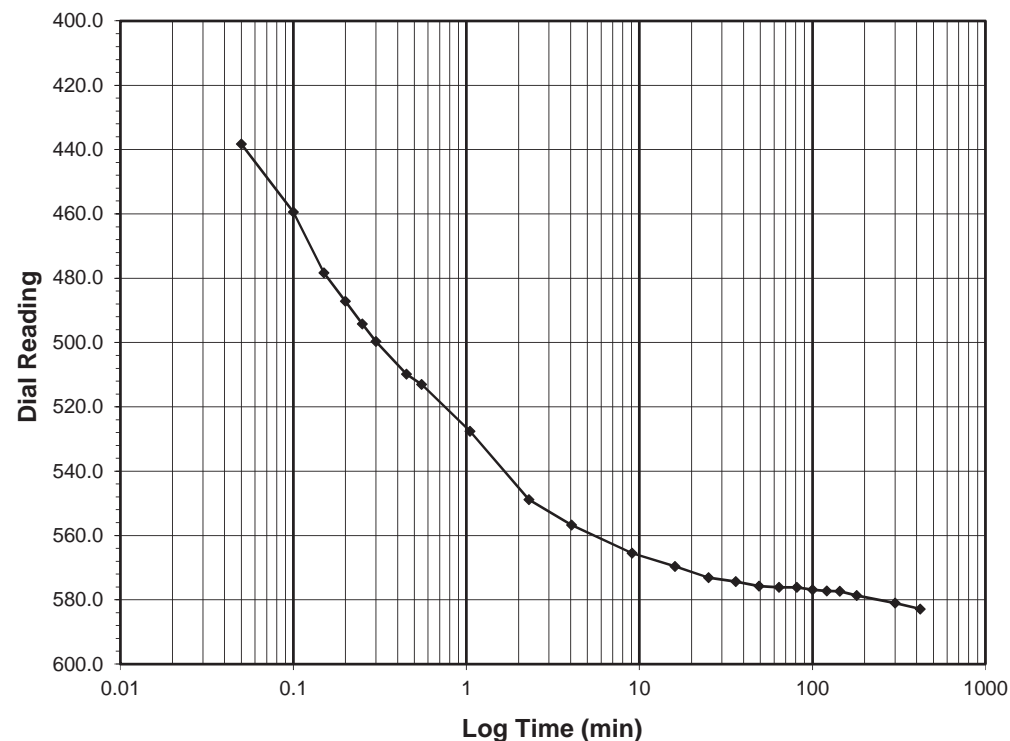
Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0
Final Reading (div) 582.9
 Consolidometer No. **R470**
 1 Division (in) 0.0001
 Start Date 12/4/17
 Start Time 17:29:53

Elapsed Time (min)	Dial Reading (div)
Initial	244.8
0.05	438.3
0.10	459.4
0.15	478.3
0.20	487.2
0.25	494.2
0.30	499.7
0.45	509.9
0.55	513.1
1.05	527.6
2.30	548.9
4.05	556.7
9.05	565.5
16.05	569.6
25.05	573.1
36.05	574.3
49.05	575.8
64.05	576.1
81.07	576.2
100.07	576.9
121.07	577.2
144.07	577.4
180.07	578.7
300.07	581.0
420.10	582.9



Tested By 129-04-0411 Date 12/4/17 Checked By GEM Date 12/18/17

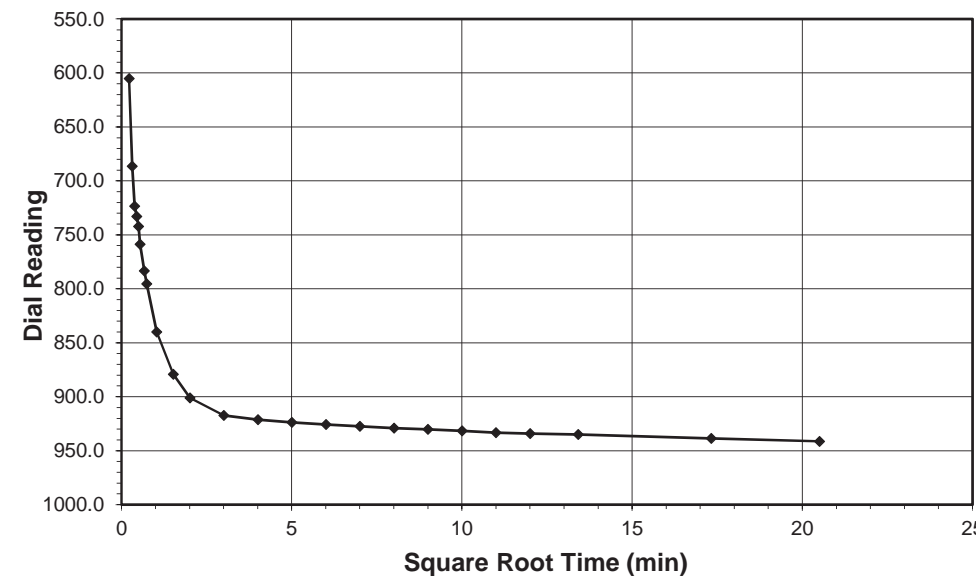
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



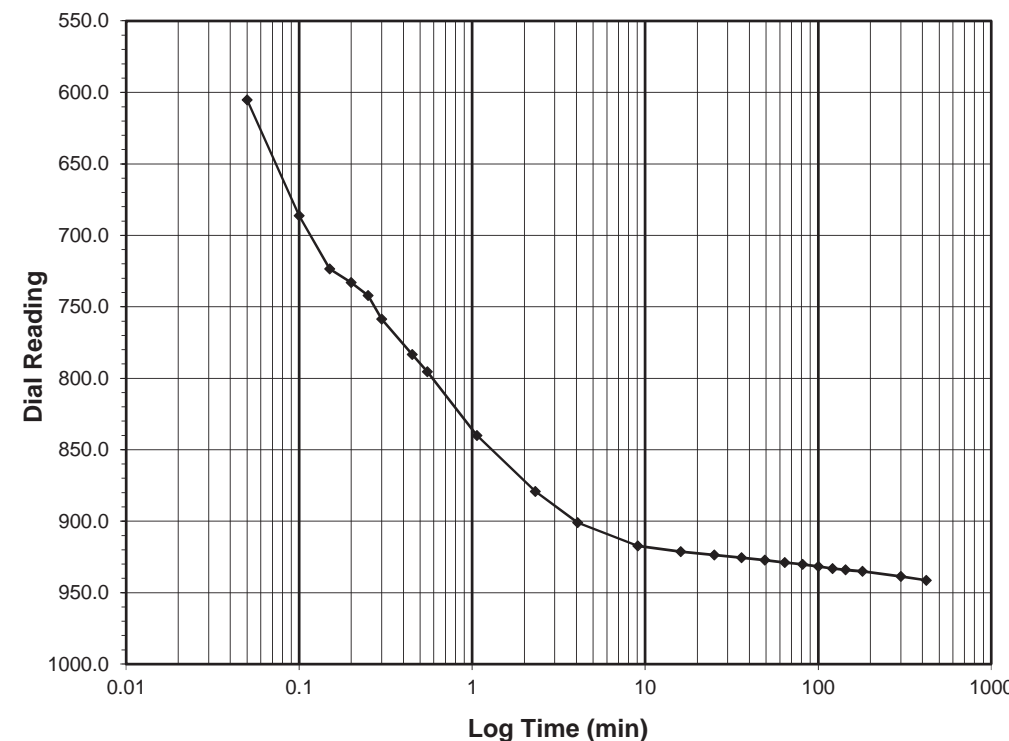
Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 941.4
 Consolidometer No. **R470**
 1 Division (in) 0.0001
 Start Date 12/5/17
 Start Time 0:29:59

Elapsed Time (min)	Dial Reading (div)
Initial	582.9
0.05	605.2
0.10	686.3
0.15	723.5
0.20	733.0
0.25	742.1
0.30	758.7
0.45	783.3
0.55	795.4
1.07	840.0
2.32	879.2
4.07	901.0
9.07	917.4
16.07	921.4
25.07	923.7
36.07	925.6
49.07	927.3
64.07	929.0
81.07	930.3
100.07	931.7
121.07	933.2
144.08	934.0
180.08	935.0
300.08	938.7
420.47	941.4



Tested By 129-04-0411 Date 12/5/17 Checked By GEM Date 12/18/17

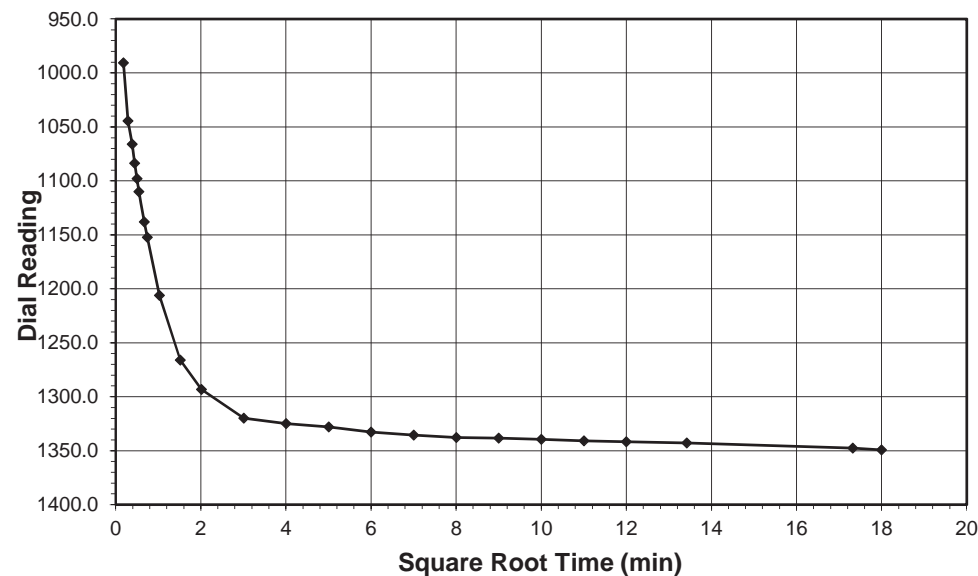
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

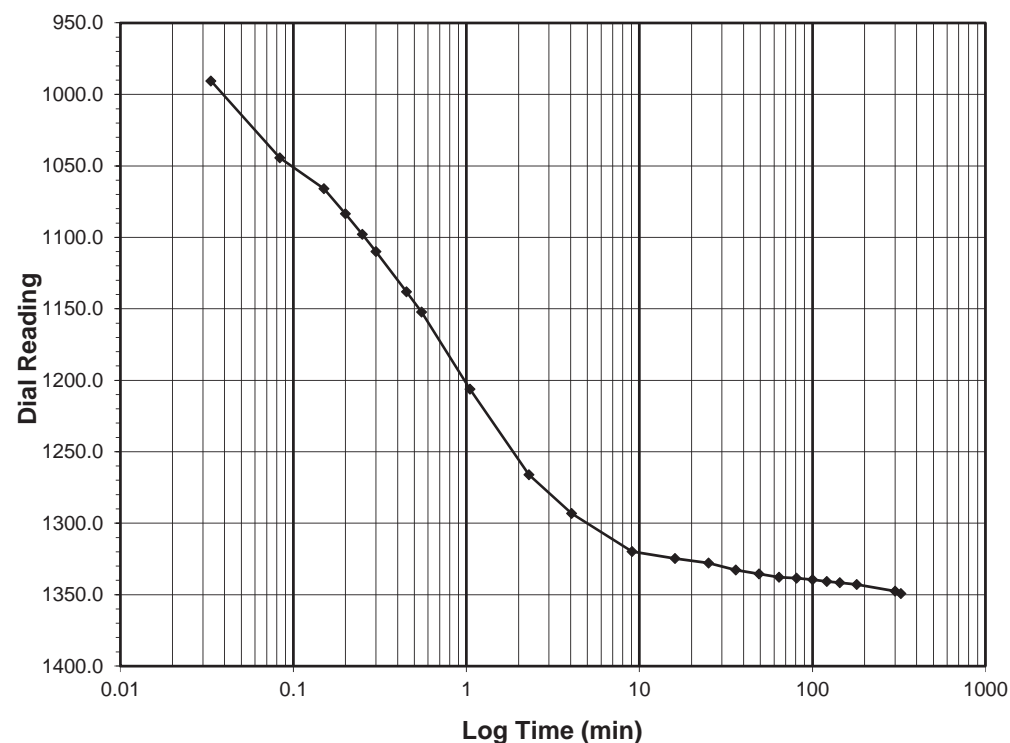
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0
Final Reading (div) 1349.3
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/5/17
 Start Time 7:30:27

Elapsed Time (min)	Dial Reading (div)
Initial	941.4
0.03	990.5
0.08	1044.4
0.15	1066.0
0.20	1083.6
0.25	1097.9
0.30	1109.9
0.45	1138.0
0.55	1152.4
1.05	1206.2
2.30	1266.1
4.05	1293.2
9.05	1319.8
16.05	1324.8
25.05	1328.0
36.05	1332.8
49.05	1335.4
64.05	1337.8
81.05	1338.4
100.05	1339.5
121.05	1340.8
144.05	1341.6
180.05	1342.8
300.07	1347.5
323.95	1349.3



Tested By 129-04-0411 Date 12/5/17 Checked By GEM Date 12/18/17

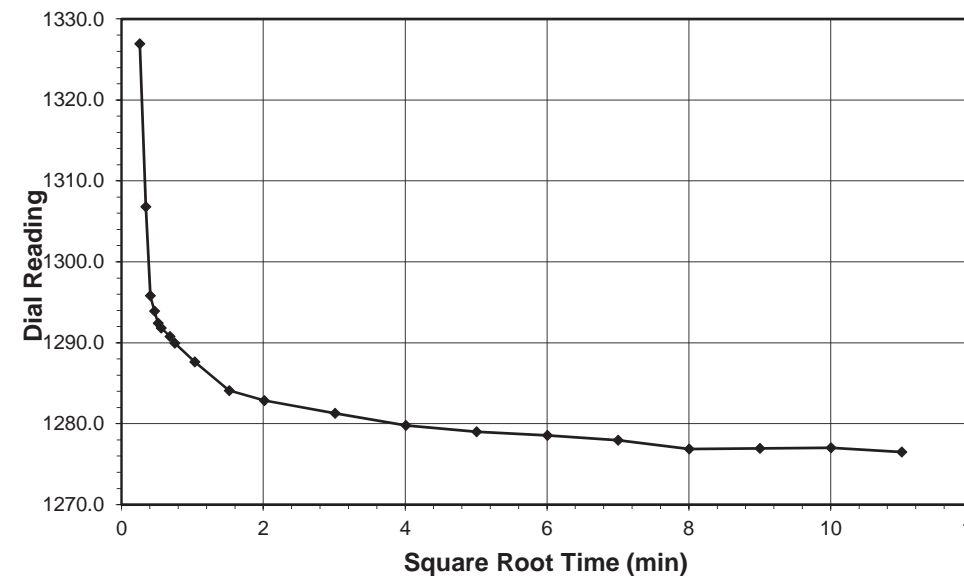
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

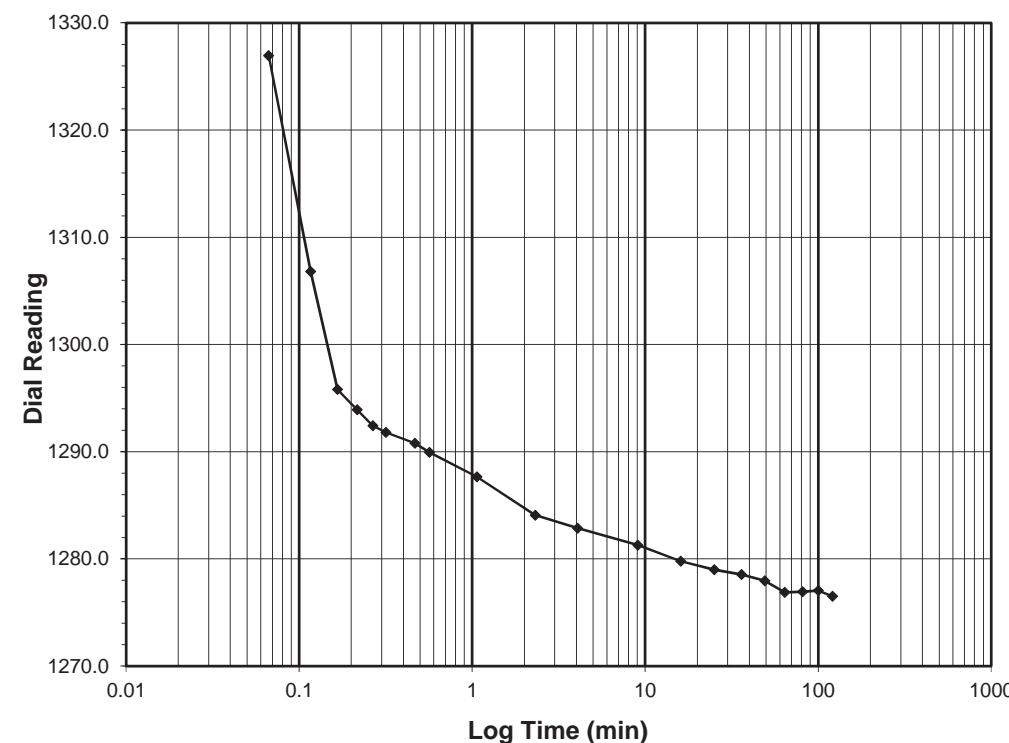
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 1276.5
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/5/17
 Start Time 12:54:26

Elapsed Time (min)	Dial Reading (div)
Initial	1349.3
0.07	1326.9
0.12	1306.8
0.17	1295.8
0.22	1293.9
0.27	1292.4
0.32	1291.8
0.47	1290.8
0.57	1290.0
1.07	1287.6
2.32	1284.1
4.07	1282.9
9.07	1281.3
16.07	1279.8
25.07	1279.0
36.07	1278.6
49.07	1277.9
64.07	1276.9
81.07	1276.9
100.07	1277.0
121.07	1276.5



Tested By 129-04-0411 Date 12/5/17 Checked By GEM Date 12/18/17

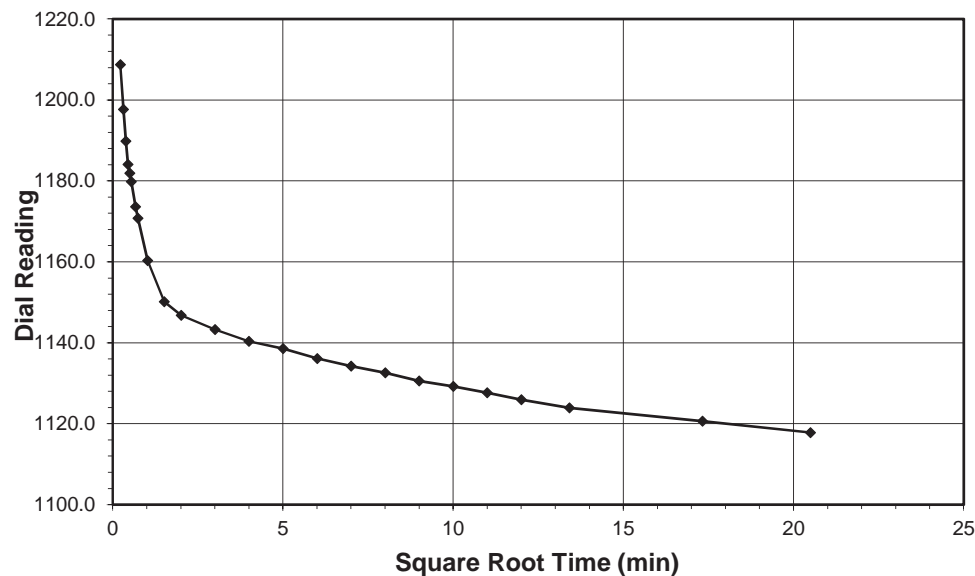
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



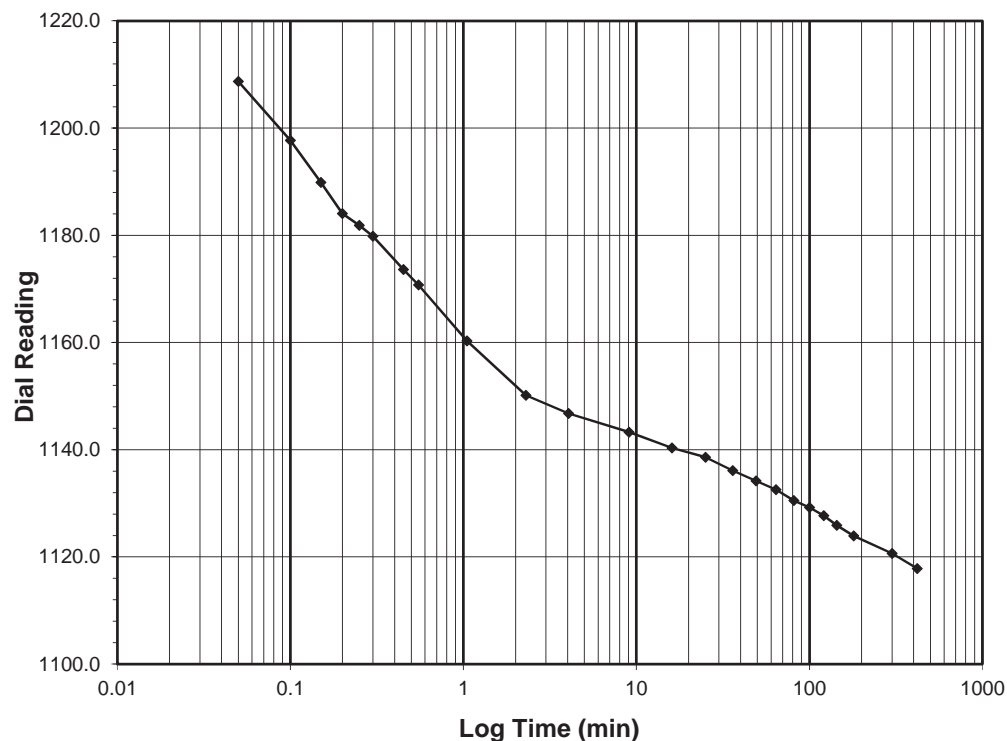
Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1117.8
Consolidometer No.	R470
1 Division (in)	0.0001
Start Date	12/5/17
Start Time	19:54:31

Elapsed Time (min)	Dial Reading (div)
Initial	1276.5
0.05	1208.7
0.10	1197.7
0.15	1189.8
0.20	1184.1
0.25	1181.9
0.30	1179.8
0.45	1173.6
0.55	1170.7
1.05	1160.3
2.30	1150.2
4.05	1146.8
9.05	1143.3
16.05	1140.3
25.07	1138.6
36.07	1136.1
49.07	1134.2
64.07	1132.6
81.07	1130.5
100.07	1129.2
121.07	1127.7
144.07	1125.9
180.07	1123.9
300.07	1120.6
420.05	1117.8



Tested By 129-04-0411 Date 12/5/17 Checked By GEM Date 12/18/17

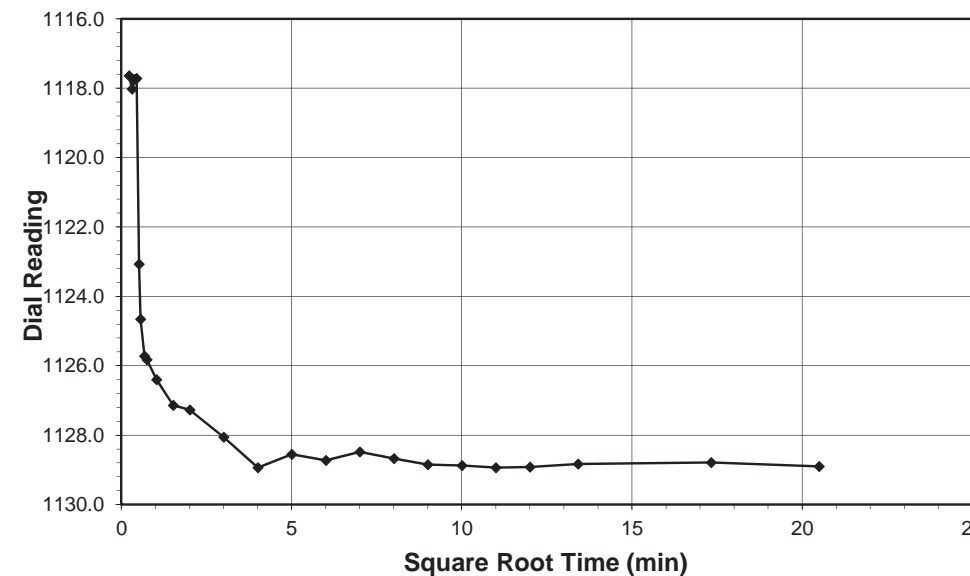
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216



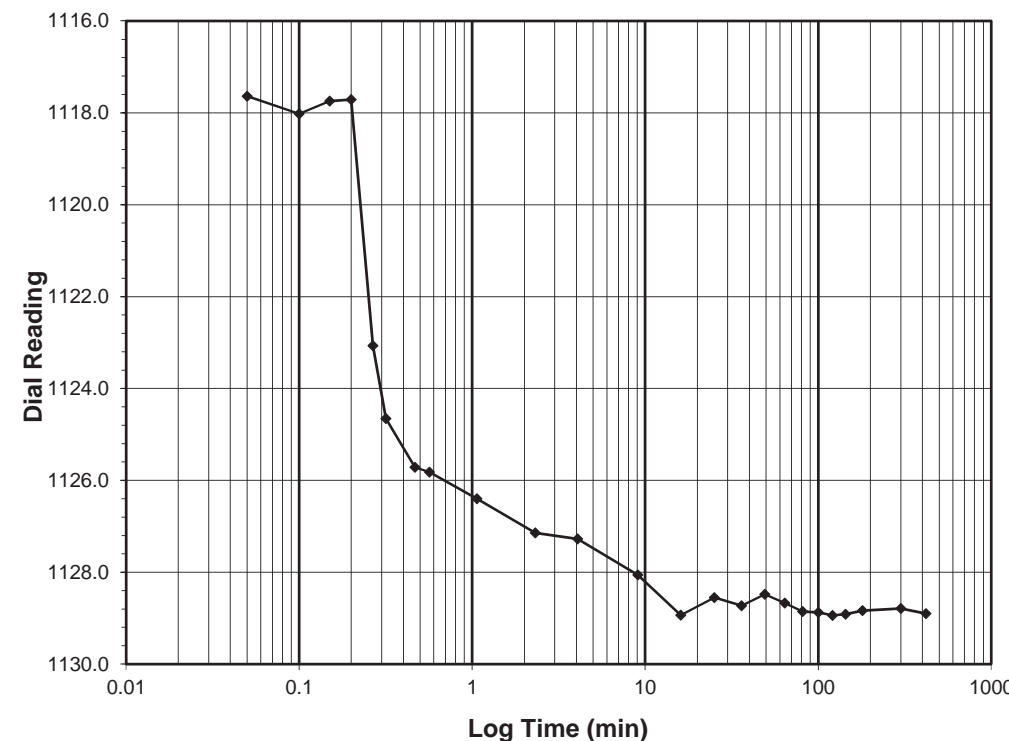
Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1128.9
Consolidometer No.	R470
1 Division (in)	0.0001
Start Date	12/6/17
Start Time	2:54:34

Elapsed Time (min)	Dial Reading (div)
Initial	1117.8
0.05	1117.6
0.10	1118.0
0.15	1117.7
0.20	1117.7
0.27	1123.1
0.32	1124.7
0.47	1125.7
0.57	1125.8
1.07	1126.4
2.32	1127.1
4.07	1127.3
9.07	1128.1
16.07	1128.9
25.07	1128.6
36.07	1128.7
49.07	1128.5
64.07	1128.7
81.07	1128.9
100.07	1128.9
121.07	1128.9
144.07	1128.9
180.07	1128.8
300.08	1128.8
420.02	1128.9



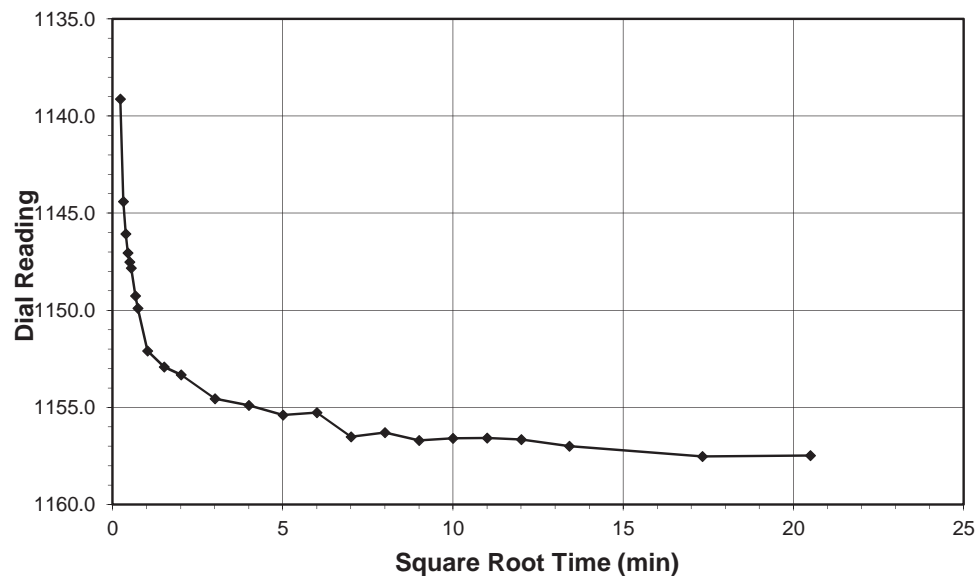
Tested By 129-04-0411 Date 12/6/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

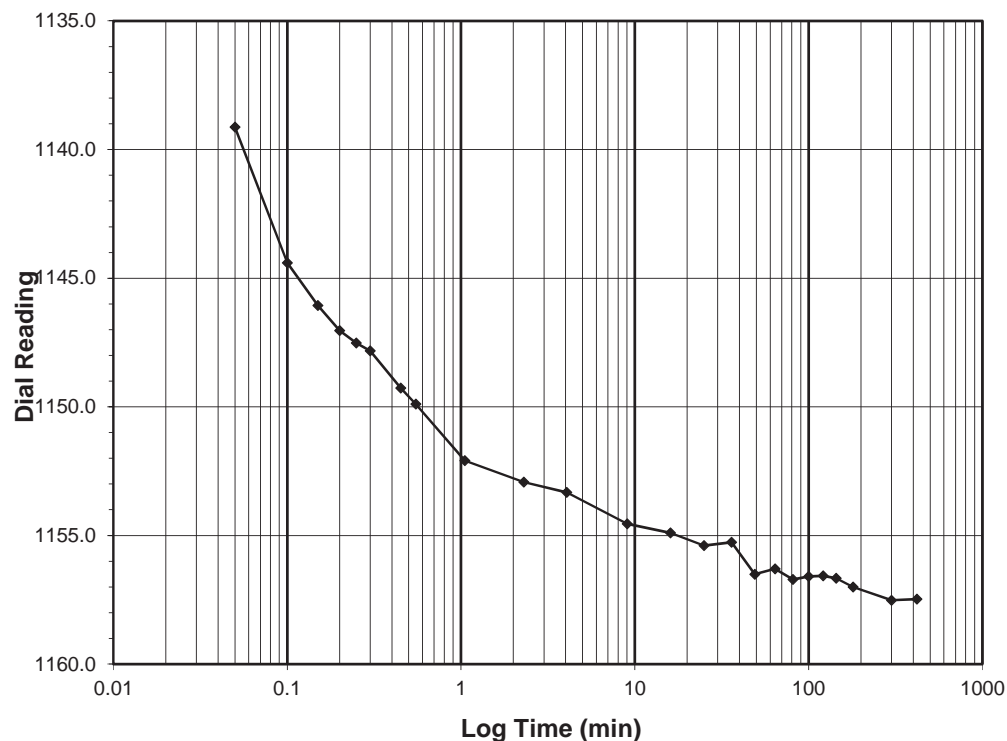
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0
Final Reading (div) 1157.5
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/6/17
 Start Time 9:54:35

Elapsed Time (min)	Dial Reading (div)
Initial	1128.9
0.05	1139.1
0.10	1144.4
0.15	1146.1
0.20	1147.0
0.25	1147.5
0.30	1147.8
0.45	1149.3
0.55	1149.9
1.05	1152.1
2.30	1152.9
4.05	1153.3
9.05	1154.5
16.05	1154.9
25.05	1155.4
36.05	1155.3
49.05	1156.5
64.05	1156.3
81.05	1156.7
100.05	1156.6
121.05	1156.6
144.05	1156.7
180.07	1157.0
300.07	1157.5
420.02	1157.5



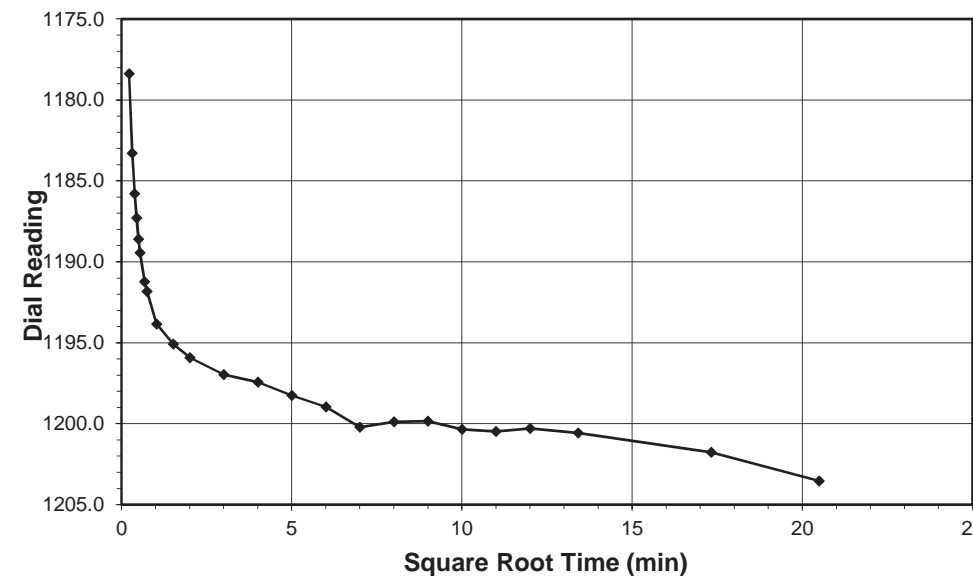
Tested By 129-04-0411 Date 12/6/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

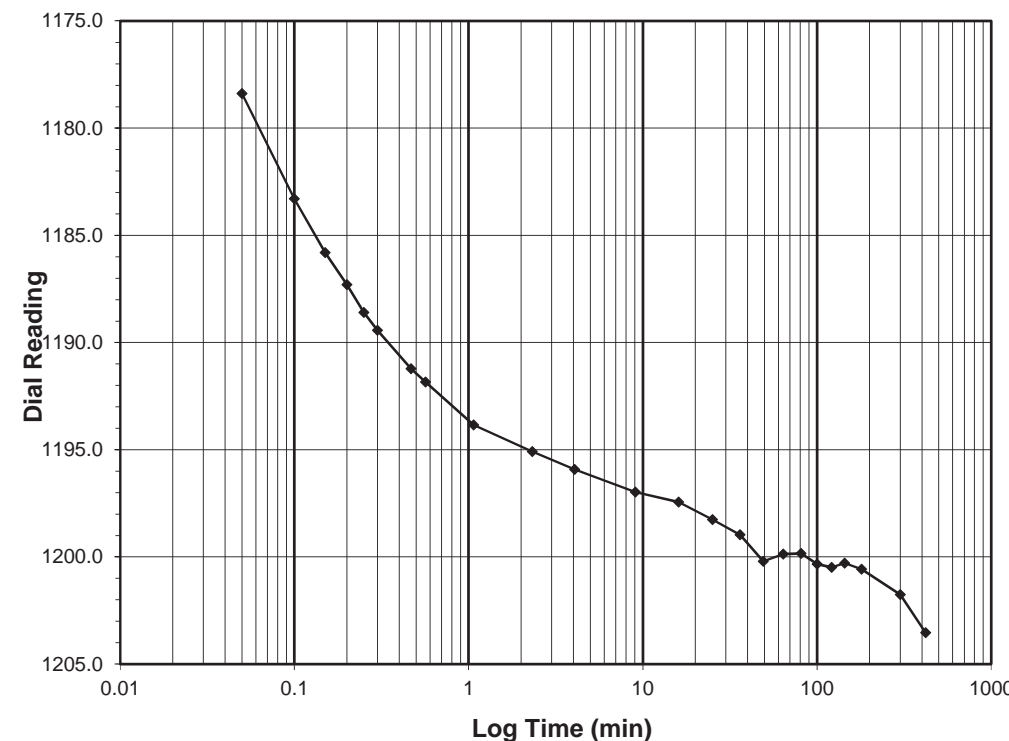
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0
Final Reading (div) 1203.5
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/6/17
 Start Time 16:54:36

Elapsed Time (min)	Dial Reading (div)
Initial	1157.5
0.05	1178.4
0.10	1183.3
0.15	1185.8
0.20	1187.3
0.25	1188.6
0.30	1189.4
0.47	1191.2
0.57	1191.8
1.07	1193.8
2.32	1195.1
4.07	1195.9
9.07	1197.0
16.07	1197.4
25.07	1198.3
36.07	1199.0
49.07	1200.2
64.07	1199.9
81.07	1199.8
100.07	1200.3
121.07	1200.5
144.07	1200.3
180.07	1200.6
300.08	1201.8
420.10	1203.5



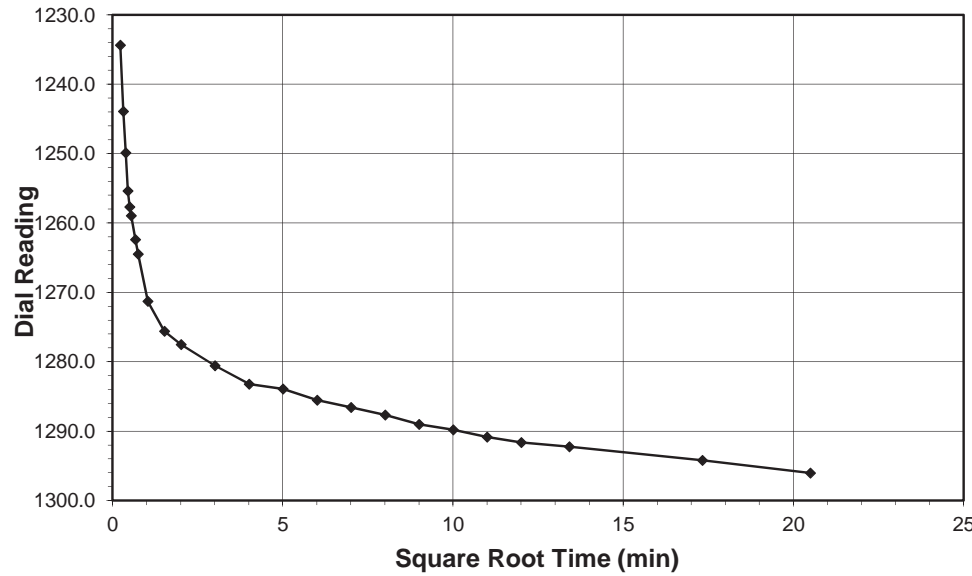
Tested By 129-04-0411 Date 12/6/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0
Final Reading (div) 1296.0
 Consolidometer No. R470
 1 Division (in) 0.0001

Start Date 12/6/17
 Start Time 23:54:42

Elapsed Time (min)	Dial Reading (div)
Initial	1203.5
0.05	1234.3
0.10	1243.9
0.15	1249.9
0.20	1255.4
0.25	1257.7
0.30	1258.9
0.45	1262.4
0.57	1264.5
1.07	1271.3
2.32	1275.6
4.07	1277.5
9.07	1280.6
16.07	1283.2
25.07	1283.9
36.07	1285.5
49.07	1286.6
64.07	1287.7
81.07	1289.0
100.08	1289.8
121.08	1290.9
144.08	1291.6
180.08	1292.2
300.08	1294.2
420.13	1296.0



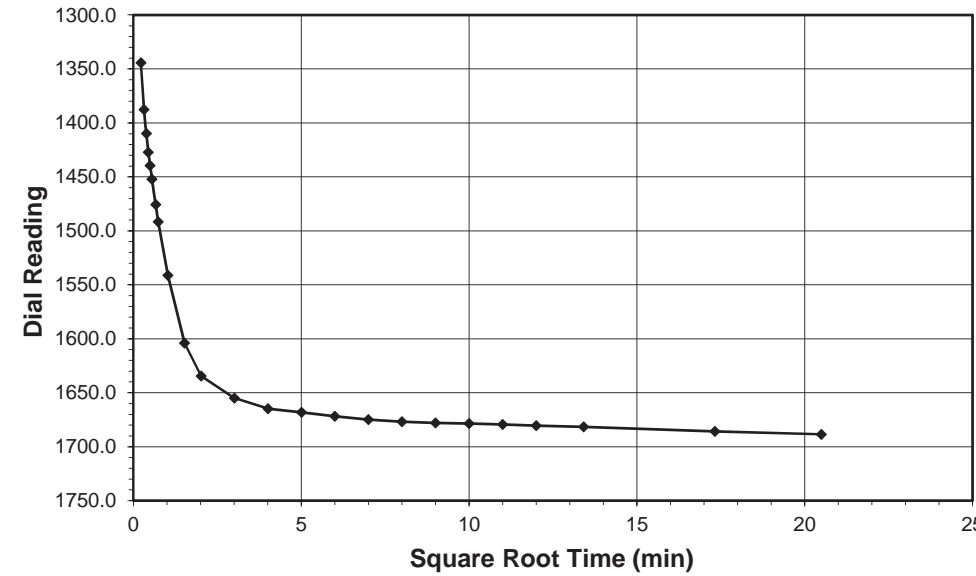
Tested By 129-04-0411 Date 12/6/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

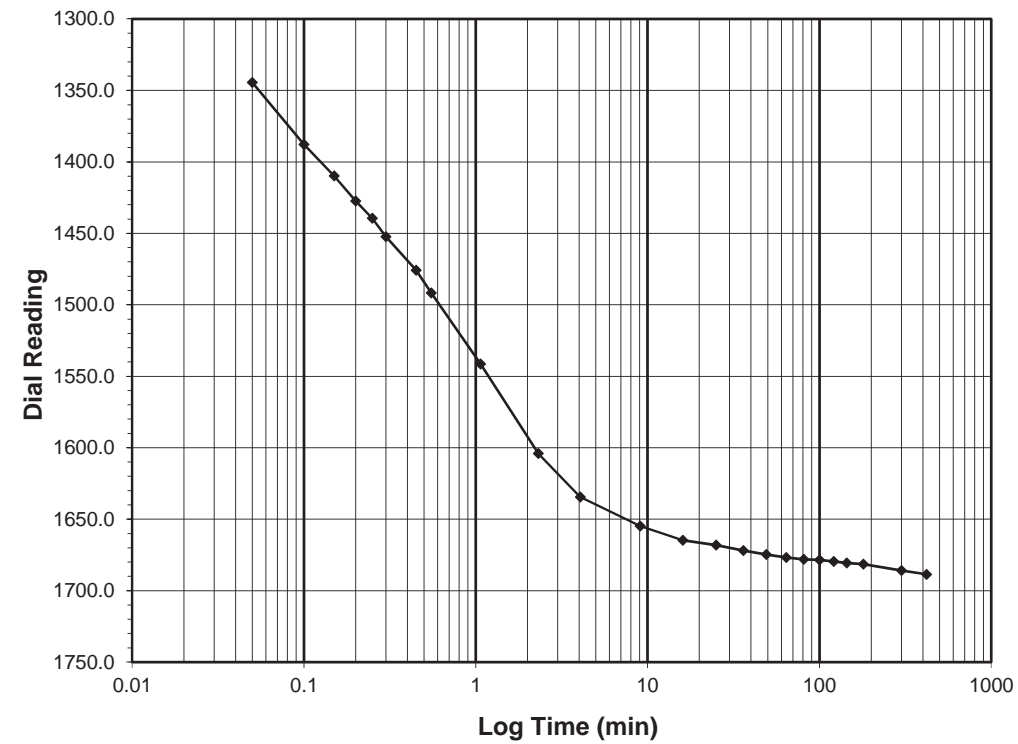
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0
Final Reading (div) 1688.6
 Consolidometer No. R470
 1 Division (in) 0.0001

Start Date 12/7/17
 Start Time 6:54:50

Elapsed Time (min)	Dial Reading (div)
Initial	1296.0
0.05	1344.4
0.10	1387.8
0.15	1409.7
0.20	1427.3
0.25	1439.5
0.30	1452.2
0.45	1475.7
0.55	1491.8
1.07	1541.3
2.32	1604.0
4.07	1634.5
9.07	1654.9
16.07	1664.7
25.07	1668.1
36.07	1671.9
49.07	1674.8
64.07	1676.8
81.07	1678.0
100.07	1678.5
121.07	1679.5
144.07	1680.5
180.07	1681.5
300.08	1685.9
420.13	1688.6



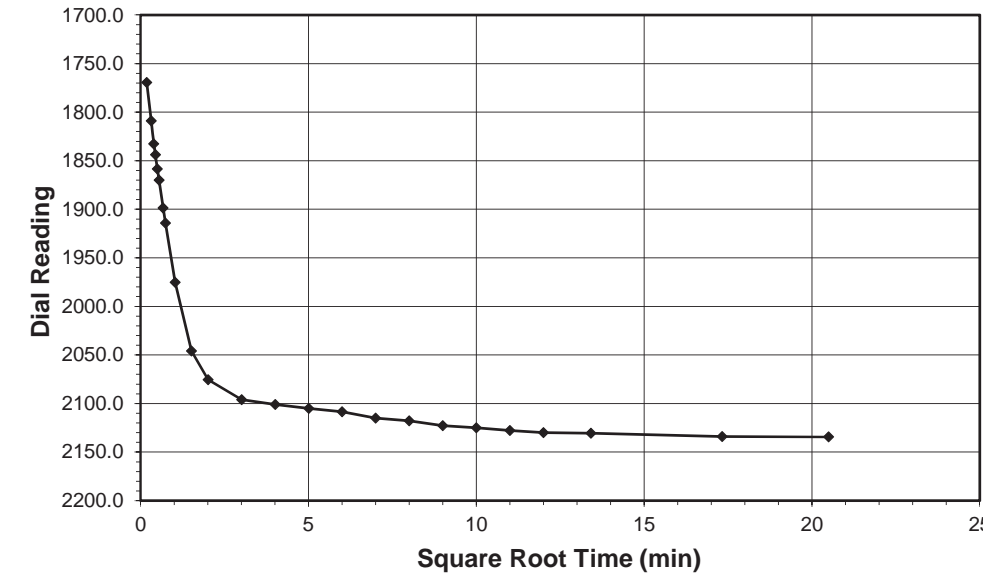
Tested By 129-04-0411 Date 12/7/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

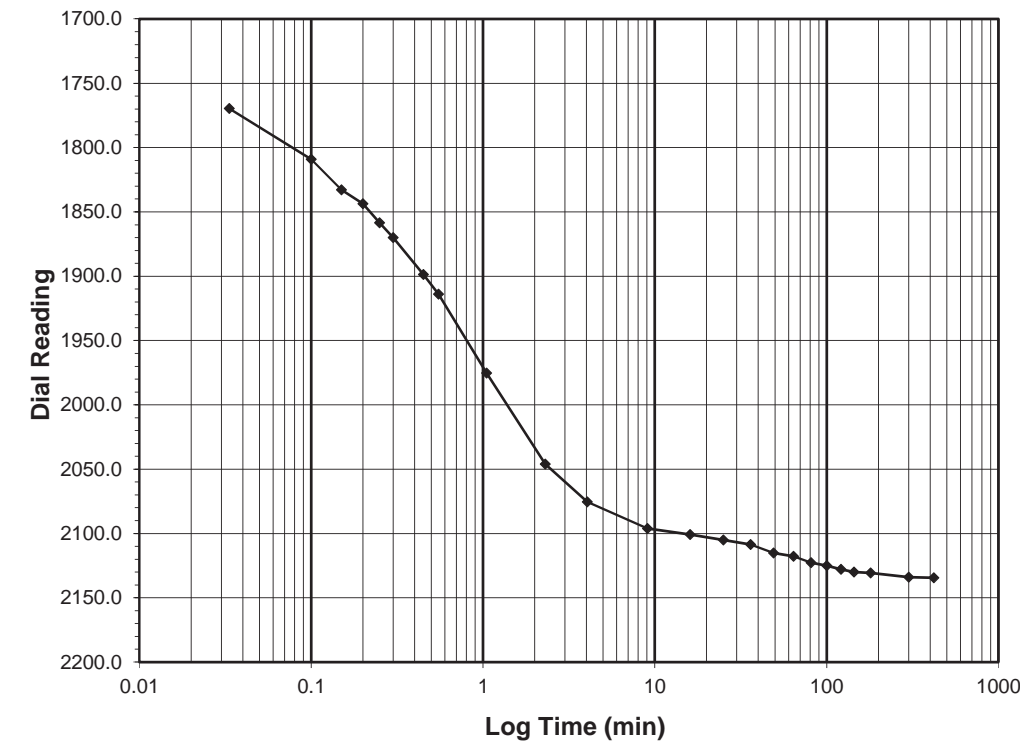
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 8.0-16.0
Final Reading (div) 2134.4
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/7/17
 Start Time 13:54:58

Elapsed Time (min)	Dial Reading (div)
Initial	1688.6
0.03	1769.5
0.10	1809.1
0.15	1832.8
0.20	1843.7
0.25	1858.5
0.30	1870.0
0.45	1898.7
0.55	1914.0
1.05	1975.4
2.30	2046.0
4.05	2075.4
9.05	2096.0
16.07	2100.9
25.07	2105.0
36.07	2108.6
49.07	2115.1
64.07	2117.7
81.07	2122.7
100.07	2125.0
121.07	2127.9
144.07	2129.9
180.07	2130.7
300.07	2134.0
420.17	2134.4



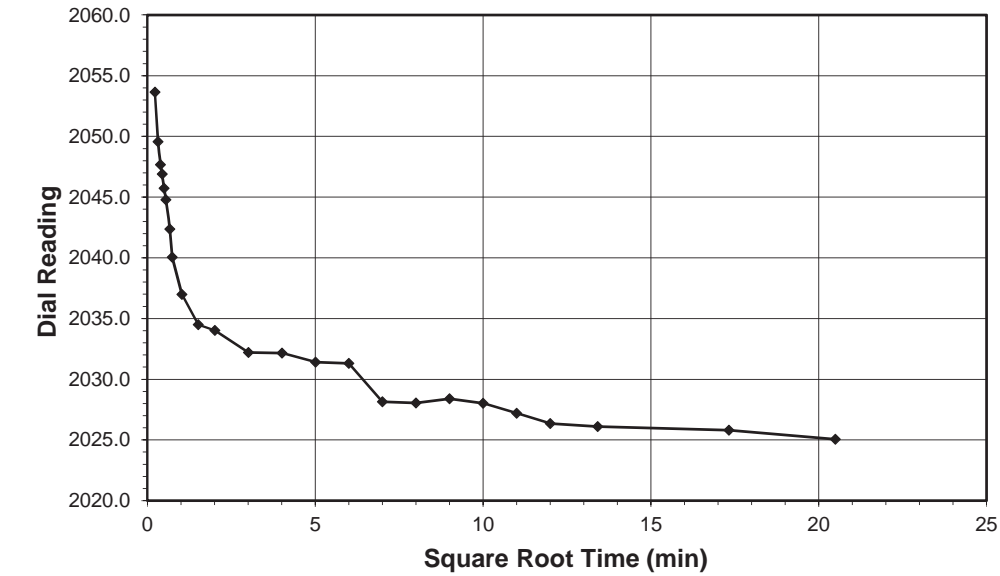
Tested By 129-04-0411 Date 12/7/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

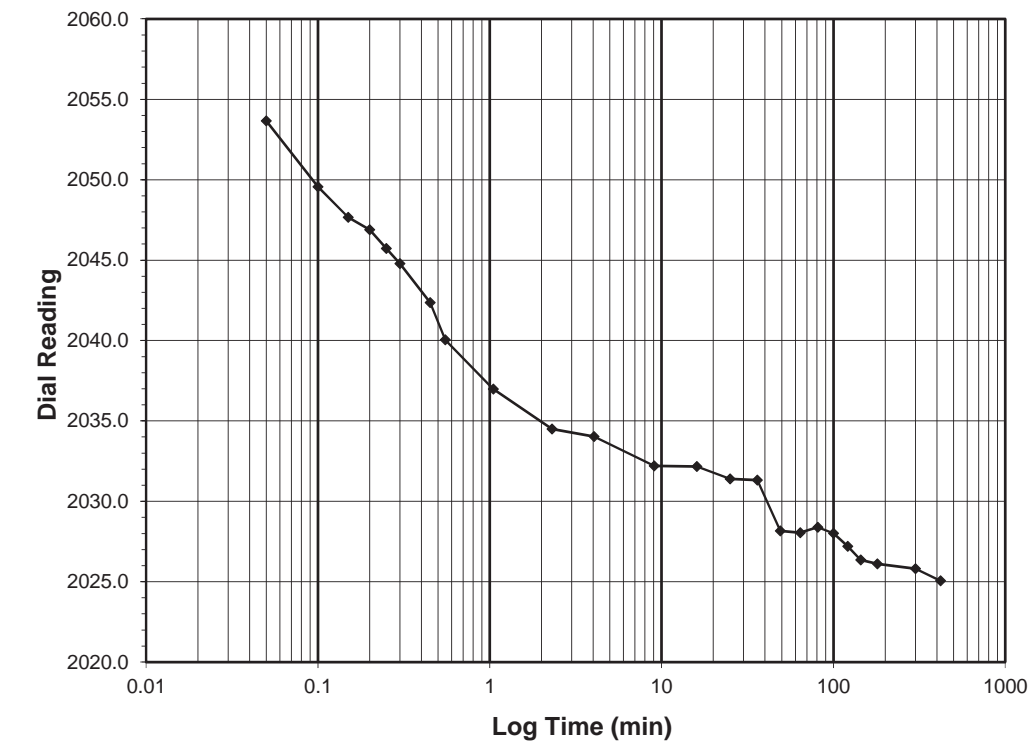
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 16.0-4.0
Final Reading (div) 2025.1
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/7/17
 Start Time 20:55:09

Elapsed Time (min)	Dial Reading (div)
Initial	2134.4
0.05	2053.7
0.10	2049.6
0.15	2047.7
0.20	2046.9
0.25	2045.7
0.30	2044.8
0.45	2042.4
0.55	2040.0
1.05	2037.0
2.30	2034.5
4.05	2034.0
9.07	2032.2
16.07	2032.2
25.07	2031.4
36.07	2031.3
49.07	2028.2
64.07	2028.1
81.07	2028.4
100.07	2028.0
121.07	2027.2
144.07	2026.4
180.07	2026.1
300.07	2025.8
420.02	2025.1



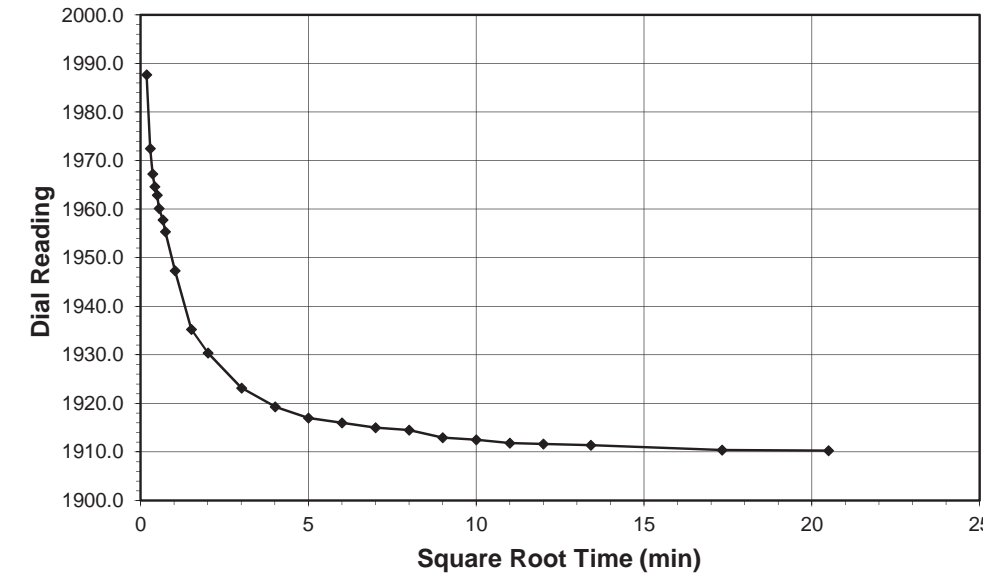
Tested By 129-04-0411 Date 12/7/17 Checked By GEM Date 12/18/17

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

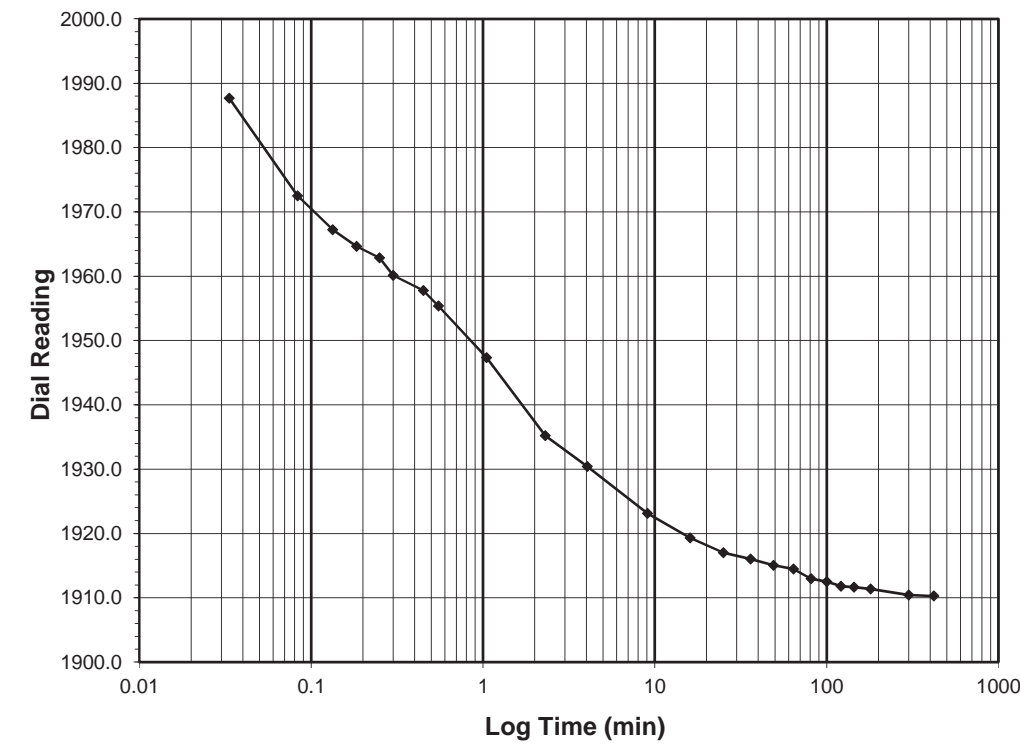
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0
Final Reading (div) 1910.3
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/8/17
 Start Time 3:55:10

Elapsed Time (min)	Dial Reading (div)
Initial	2025.1
0.03	1987.7
0.08	1972.5
0.13	1967.2
0.18	1964.7
0.25	1962.9
0.30	1960.1
0.45	1957.8
0.55	1955.4
1.05	1947.3
2.30	1935.2
4.05	1930.4
9.05	1923.1
16.05	1919.3
25.05	1917.0
36.05	1916.0
49.07	1915.0
64.07	1914.5
81.07	1913.0
100.07	1912.5
121.07	1911.8
144.07	1911.6
180.07	1911.4
300.07	1910.4
420.03	1910.3

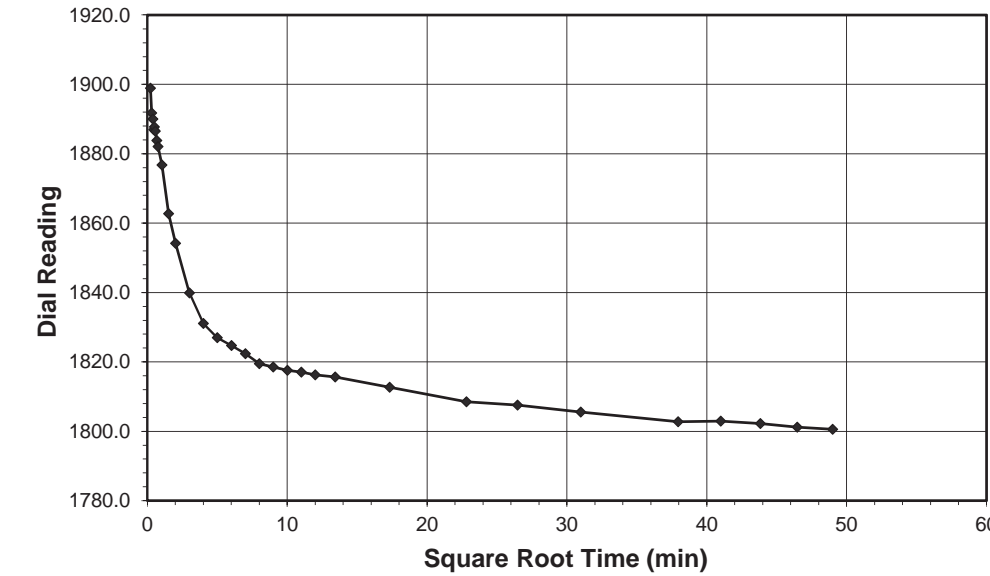


ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216



Client ESP Associates Boring No. L1_4000
 Client Project R-3822 FQ32.300, Task 1 Depth (ft) 8.3-10.1
 Project No. R-2017-878-001 Sample No. ST-1
 Lab ID R-2017-878-001-008 Visual Description WHITE CLAYEY SAND

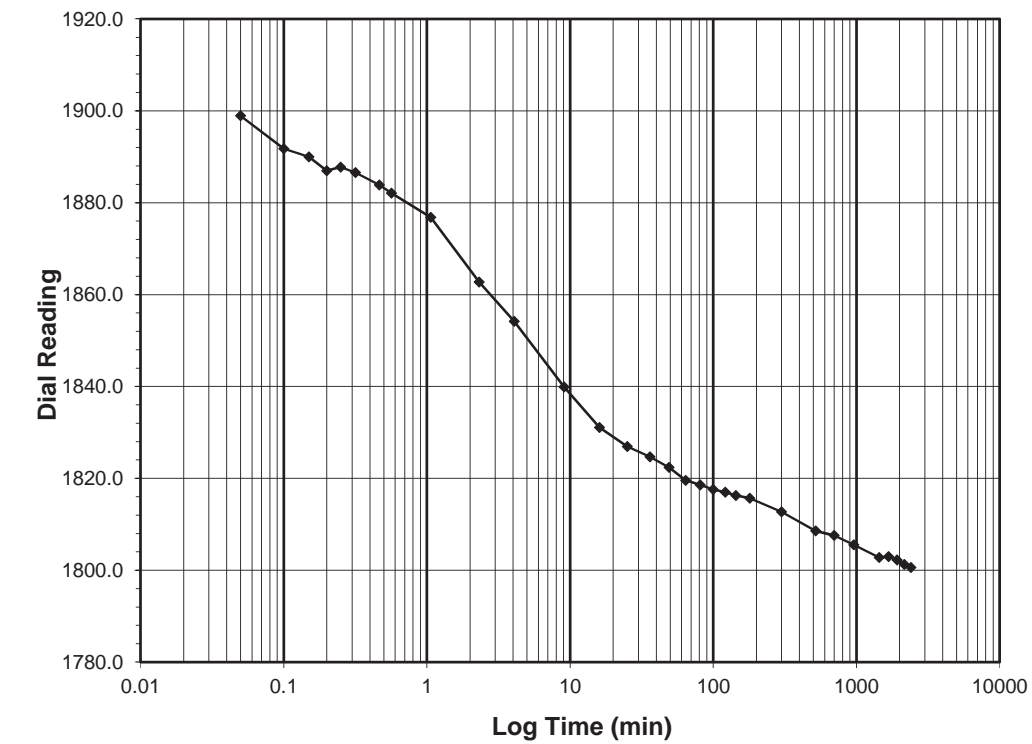
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25
Final Reading (div) 1800.6
 Consolidometer No. **R470**
 1 Division (in) 0.0001

Start Date 12/8/17
 Start Time 10:55:13

Elapsed Time (min)	Dial Reading (div)
Initial	1910.3
0.05	1898.9
0.10	1891.7
0.15	1890.0
0.20	1886.9
0.25	1887.7
0.32	1886.5
0.47	1883.8
0.57	1882.1
1.07	1876.8
2.32	1862.7
4.07	1854.1
9.07	1839.9
16.07	1831.0
25.08	1827.0
36.08	1824.7
49.08	1822.4
64.08	1819.5
81.08	1818.6
100.08	1817.6
121.08	1817.0
144.08	1816.3
180.08	1815.7
300.08	1812.7
520.08	1808.5
700.08	1807.6
960.08	1805.5
1440.10	1802.8
1680.10	1802.9
1920.10	1802.3
2160.10	1801.2
2400.10	1800.6



Tested By 129-04-0411 Date 12/8/17 Checked By GEM Date 12/18/17

Tested By 129-04-0411 Date 12/8/17 Checked By GEM Date 12/18/17