

REFERENCE: I-5972

PROJECT: 44989

SEE SHEET 3 FOR PLAN SHEET LAYOUT
AT TIME OF INVESTIGATION

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¹ - These cross sections are subsets of -L- cross sections.

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

ROADWAY
SUBSURFACE INVESTIGATION

COUNTY JOHNSTON

PROJECT DESCRIPTION I-95 AND US-70 BUSINESS,
(E. MARKET STREET), EXIT 95 INTERCHANGE FROM
OUTLET CENTER DRIVE TO WEST OF YELVERTON
GROVE ROAD

RECOMMENDATIONS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5972	1	88

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (ON-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTES:

- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
- BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

P. CARY

J. MIZE

S&ME PERSONNEL

INVESTIGATED BY RK&K, LLP

DRAWN BY M. METRY

CHECKED BY M. SWEITZER

SUBMITTED BY RK&K, LLP

DATE OCTOBER 2021



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NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
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10/19/2021

DocuSigned by:

Margaret M. Sweitzer

4AC688A0680C4E2

SIGNATURE

DATE

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table with multiple columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION, BENCH MARK, NOTES.

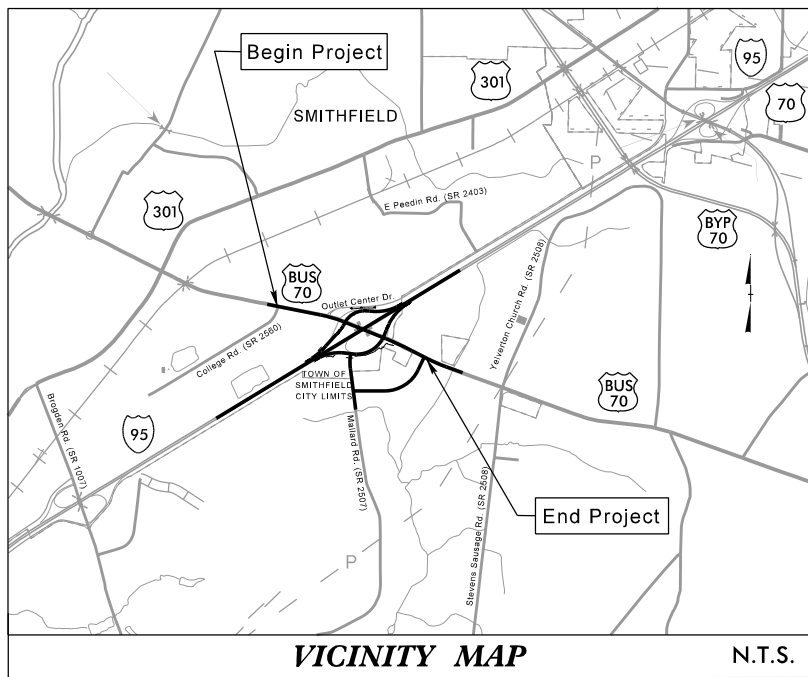
TIP PROJECT: I-5972

CONTRACT: C203991

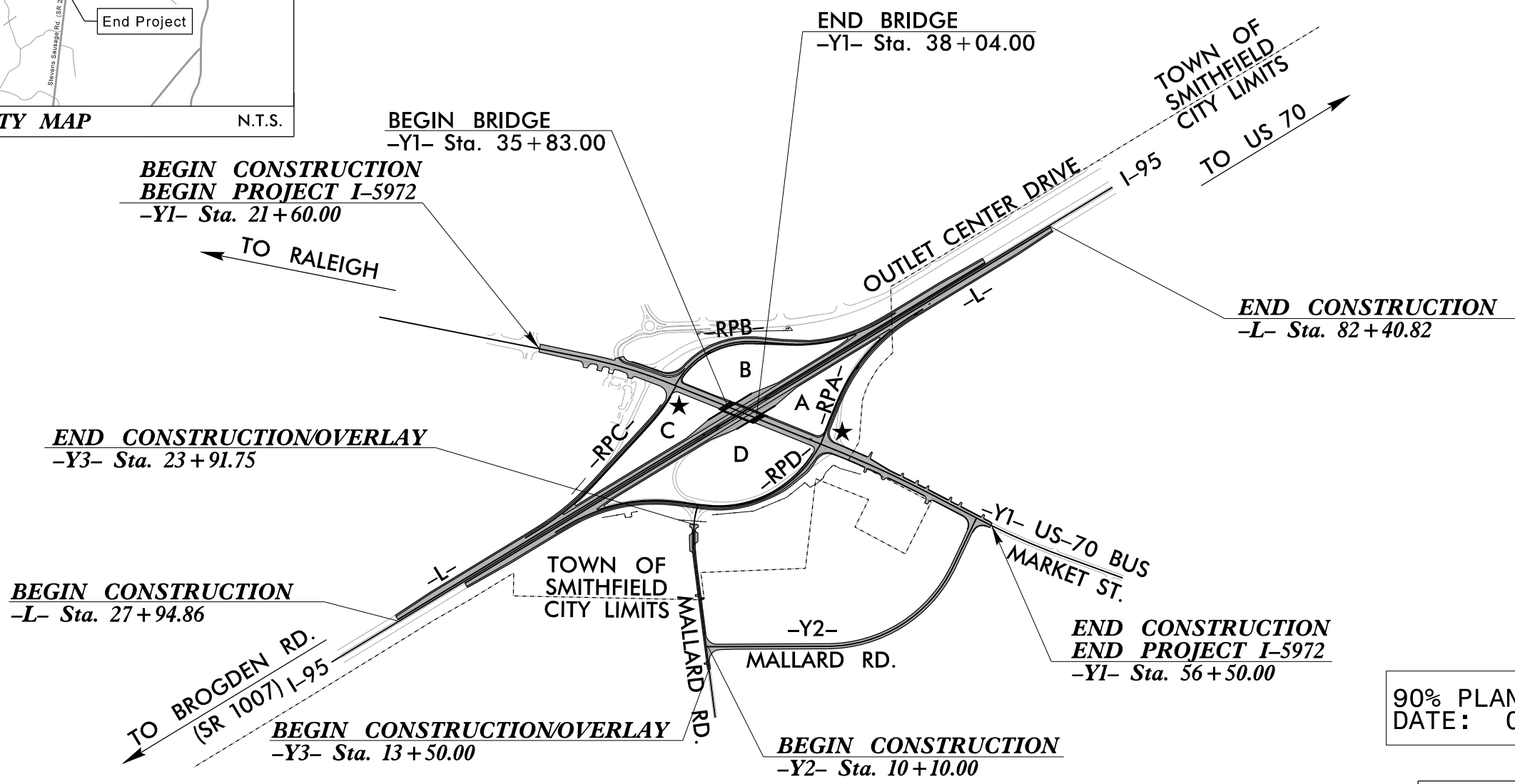
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JOHNSTON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5972	3	88
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44989.1.1	NHP-0095(045)	PE	
44989.2.1	NHP-0095(045)	RW, UTILITIES	
44989.3.1	NHP-0095(045)	CONST.	



LOCATION: I-95 AND US-70 BUSINESS, (E. MARKET STREET), EXIT 95 INTERCHANGE FROM OUTLET CENTER DR. TO WEST OF YELVERTON GROVE RD.
TYPE OF WORK: GRADING, DRAINAGE, PAVING, BRIDGE, SIGNING AND SIGNALS

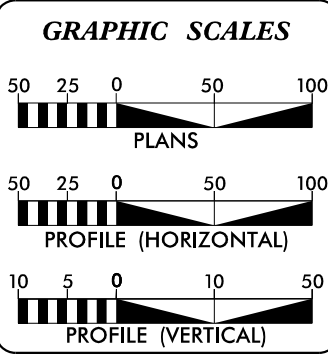


NOTE:
 1. THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

★ - PROPOSED SIGNALS

90% PLANS SUBMITTAL
 DATE: 06/08/21

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2017 =	13,600
ADT 2040 =	17,600
K =	8 %
D =	55 %
T =	4 % *
V =	50 MPH

* (TTST 1% + DUALS 3%)

FUNC. CLASS = MINOR ARTERIAL

PROJECT LENGTH

* LENGTH OF ROADWAY PROJECT I-5972.....	0.619 mi
LENGTH OF STRUCTURE PROJECT I-5972.....	0.042 mi
TOTAL LENGTH OF PROJECT I-5972.....	0.661 mi

* BASED ON -Y1-

PREPARED IN THE OFFICE OF:
RK&K CONSULTING ENGINEERS, INC.
 FOR NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION

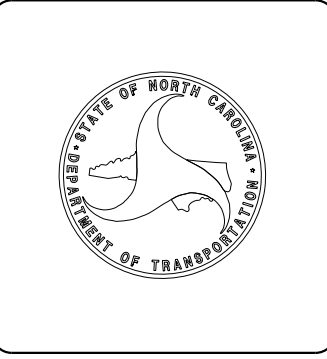
2018 STANDARD SPECIFICATIONS	B. KEITH SKINNER, P.E. PROJECT ENGINEER
RIGHT OF WAY DATE: December 14, 2021	MICHAEL T. MERRITT, P.E. PROJECT DESIGN ENGINEER
NCDOT CONTACT:	RUSSELL BROADWELL, P.E. DIVISION 4 PROJECT ENGINEER

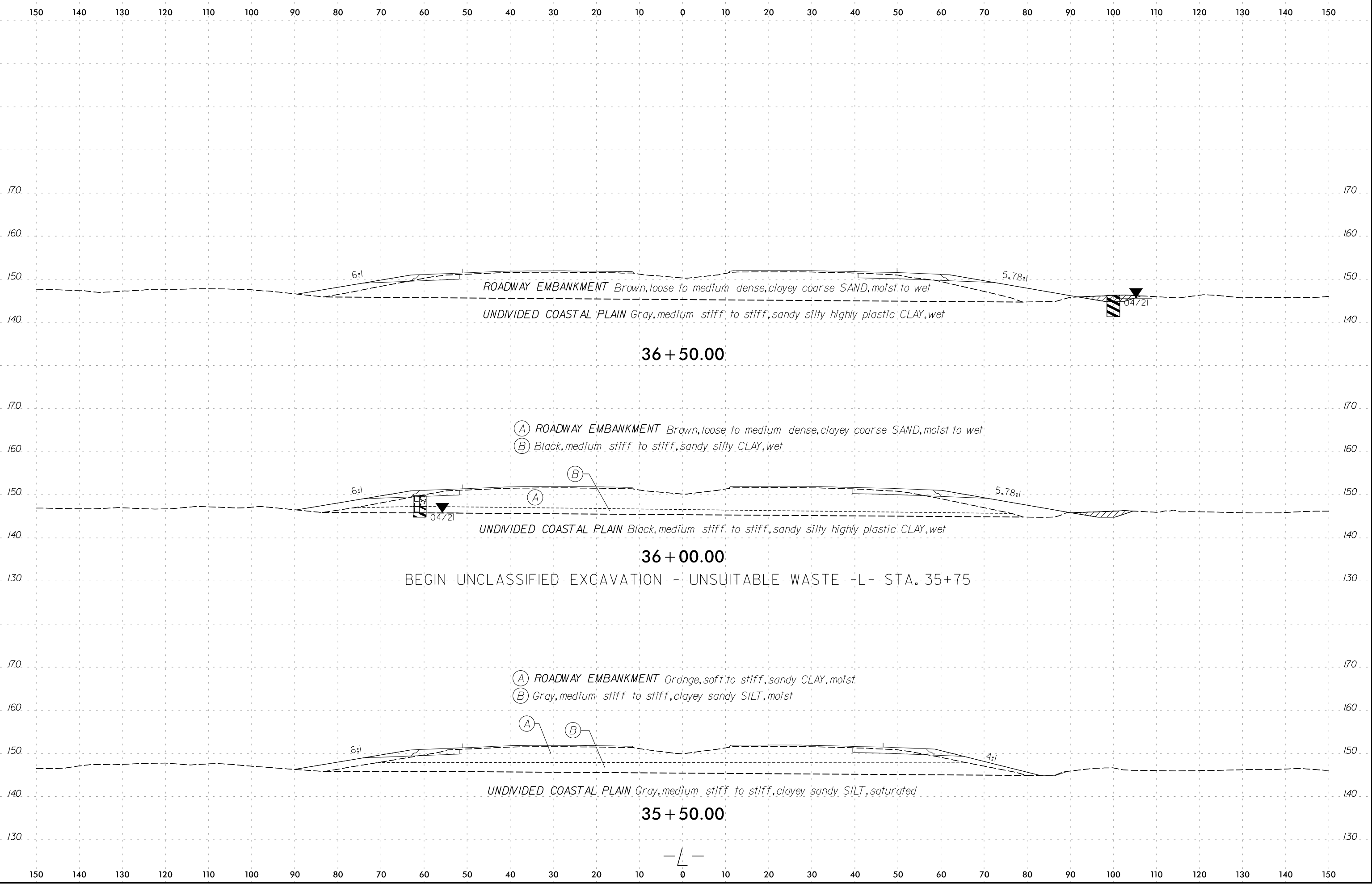
HYDRAULICS ENGINEER

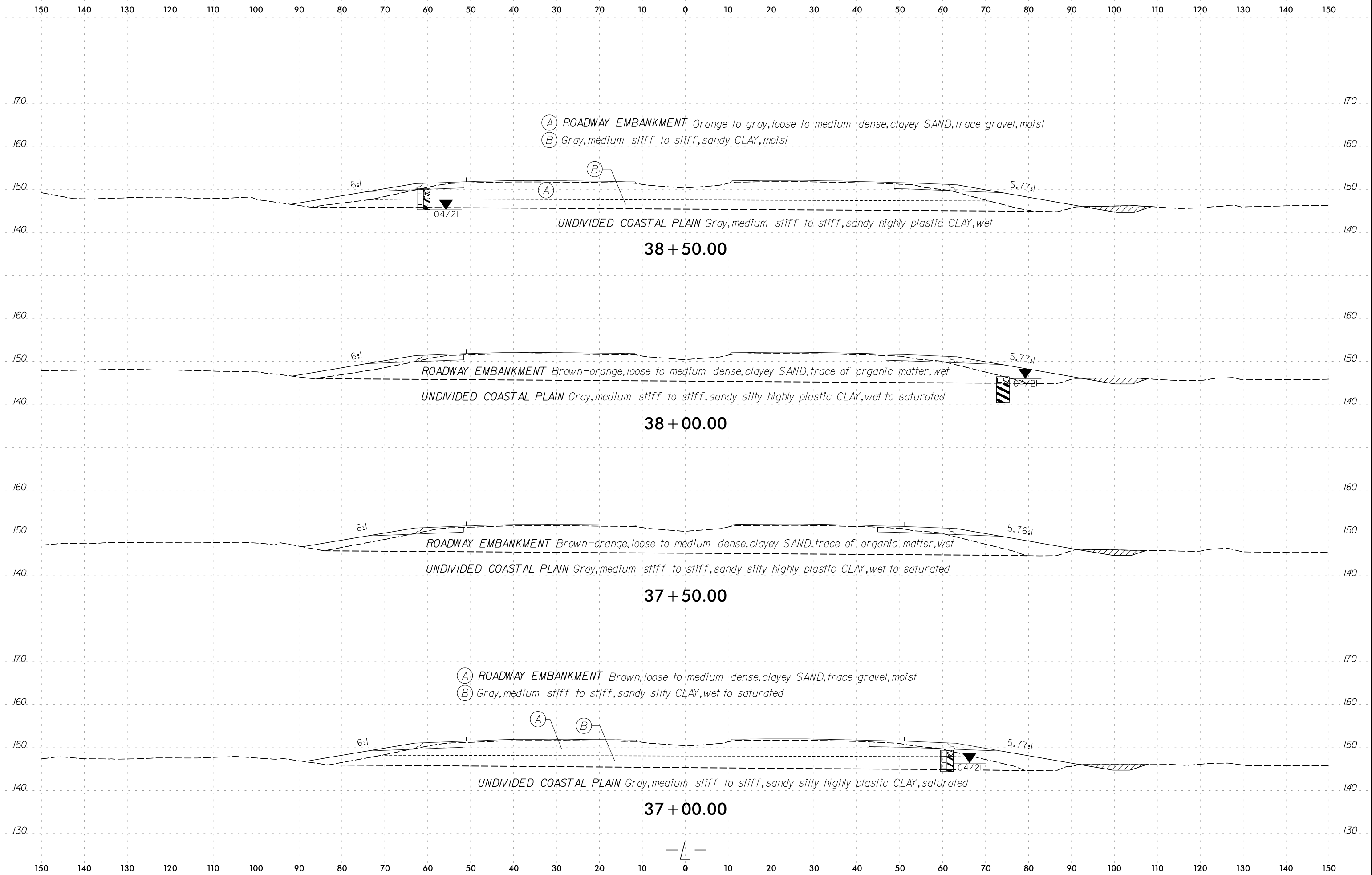
SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



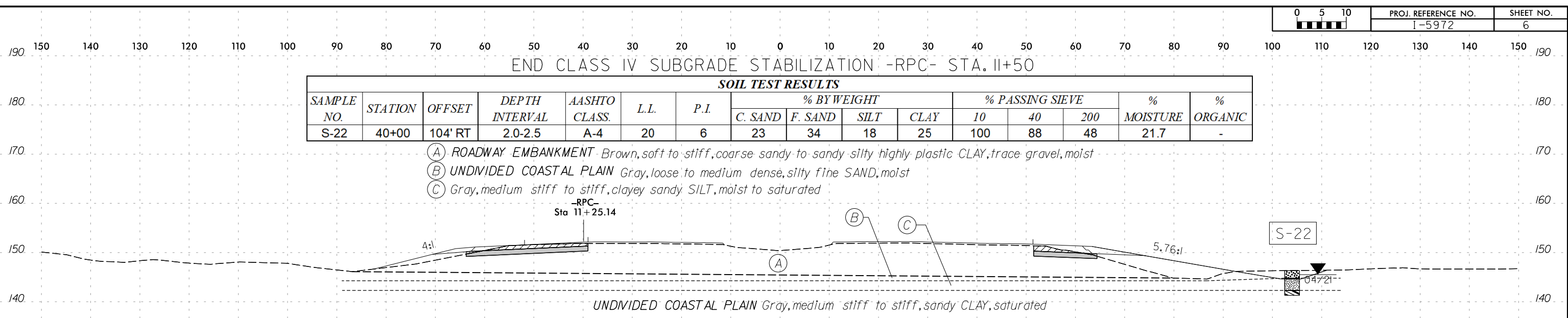




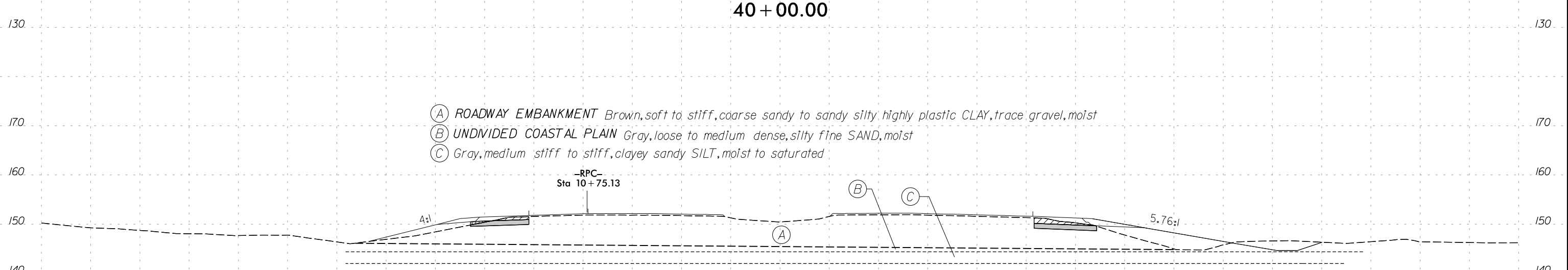
END CLASS IV SUBGRADE STABILIZATION -RPC- STA. 11+50

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-22	40+00	104' RT	2.0-2.5	A-4	20	6	23	34	18	25	100	88	48	21.7	-

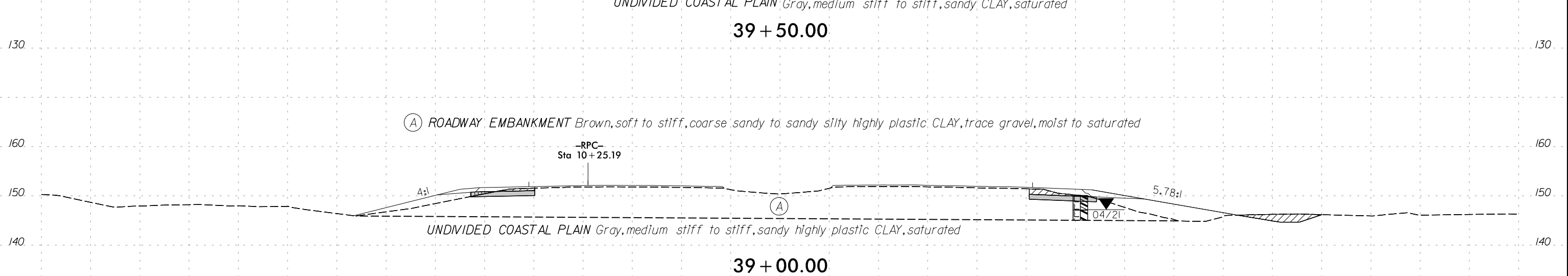
- (A) ROADWAY EMBANKMENT Brown, soft to stiff, coarse sandy to sandy silty highly plastic CLAY, trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Gray, loose to medium dense, silty fine SAND, moist
- (C) Gray, medium stiff to stiff, clayey sandy SILT, moist to saturated



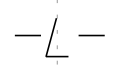
- (A) ROADWAY EMBANKMENT Brown, soft to stiff, coarse sandy to sandy silty highly plastic CLAY, trace gravel, moist
- (B) UNDIVIDED COASTAL PLAIN Gray, loose to medium dense, silty fine SAND, moist
- (C) Gray, medium stiff to stiff, clayey sandy SILT, moist to saturated

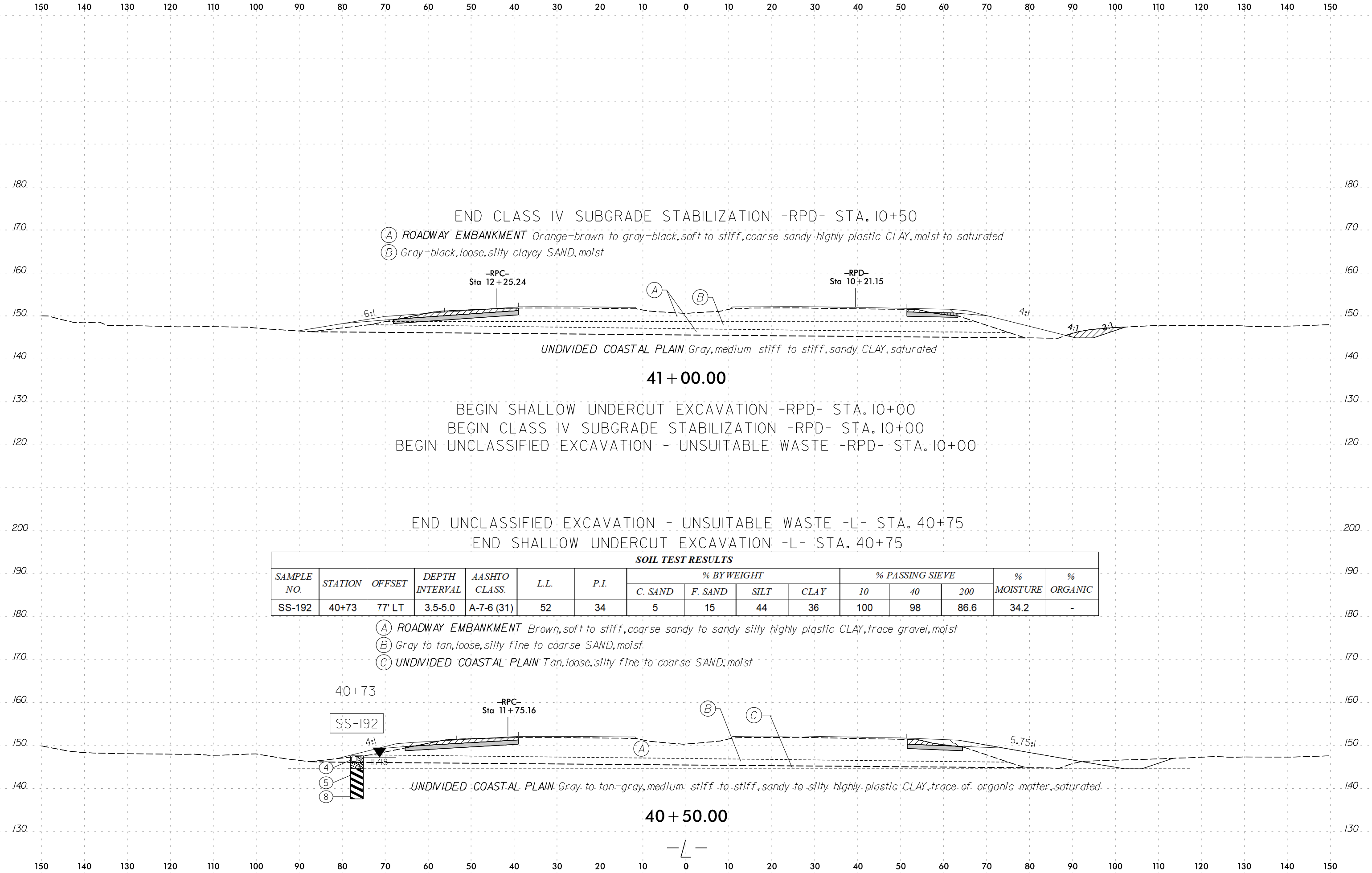


- (A) ROADWAY EMBANKMENT Brown, soft to stiff, coarse sandy to sandy silty highly plastic CLAY, trace gravel, moist to saturated

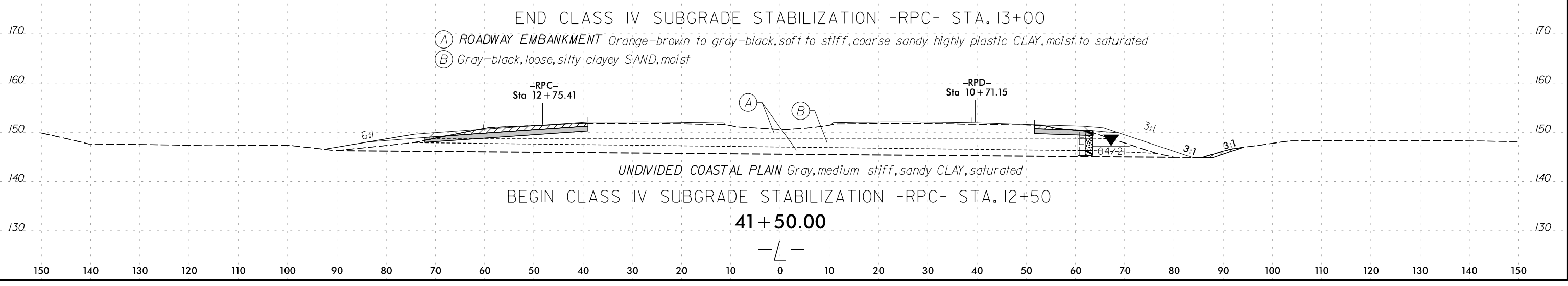
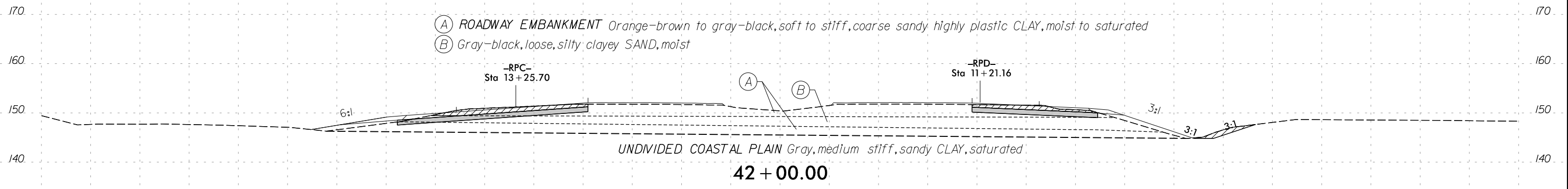
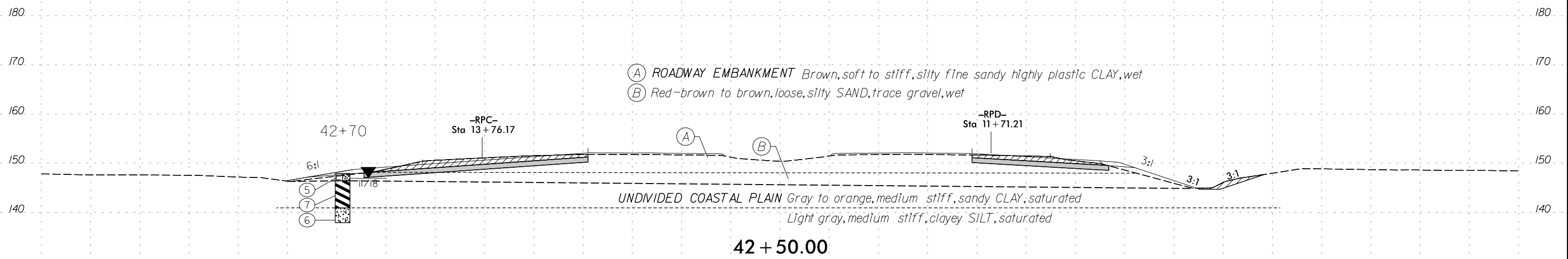


BEGIN CLASS IV SUBGRADE STABILIZATION -RPC- STA. 10+00
 BEGIN SHALLOW UNDERCUT EXCAVATION -L STA. 38+75
 BEGIN SHALLOW UNDERCUT EXCAVATION -RPC- STA. 10+00
 BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -RPC- STA. 10+00





150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

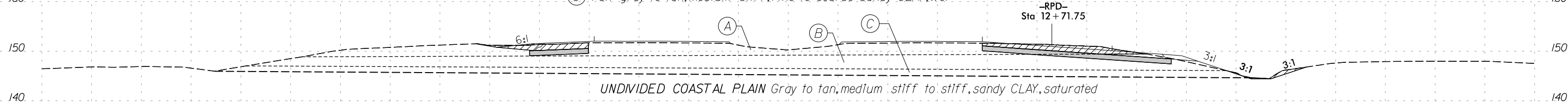


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200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -RPC- STA. 13+00
END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -L- STA. 43+75
END SHALLOW UNDERCUT EXCAVATION -RPC- STA. 13+00
END SHALLOW UNDERCUT EXCAVATION -L- STA. 43+75

- (A) ROADWAY EMBANKMENT Brown, soft to stiff, silty fine sandy highly plastic CLAY, wet
- (B) Red-brown to brown, loose, silty to silty clayey SAND, trace gravel, wet
- (C) Tan-gray to tan, medium stiff, fine to coarse sandy CLAY, wet

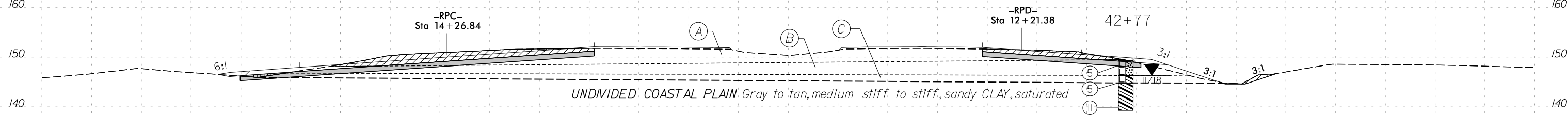


43 + 50.00

BEGIN SHALLOW UNDERCUT EXCAVATION -L- STA. 43+25
BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -L- STA. 43+25

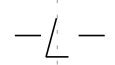
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE FOR -RPC- CONTINUES ON SHEET 76
SHALLOW UNDERCUT EXCAVATION FOR -RPC- CONTINUES ON SHEET 76
END CLASS IV SUBGRADE STABILIZATION -RPC- STA. 14+50

- (A) ROADWAY EMBANKMENT Brown, soft to stiff, silty fine sandy highly plastic CLAY, wet
- (B) Red-brown to brown, loose, silty to silty clayey SAND, trace gravel, wet
- (C) Tan-gray to tan, medium stiff, fine to coarse sandy CLAY, wet

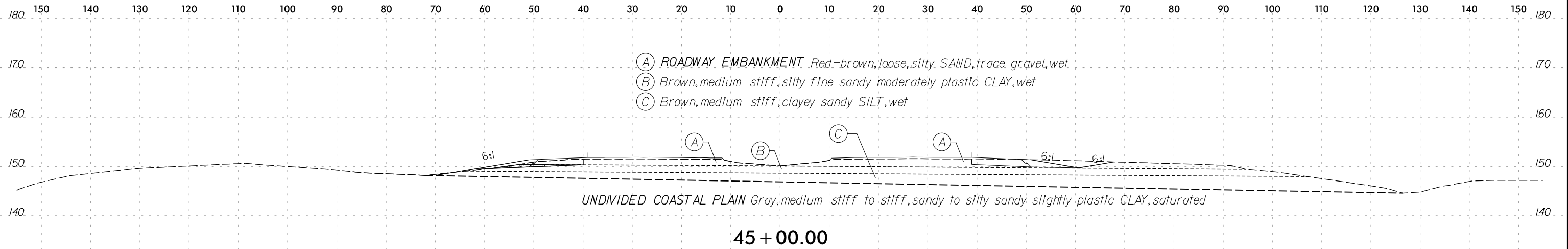


43 + 00.00

BEGIN CLASS IV SUBGRADE STABILIZATION -RPC- STA. 14+00

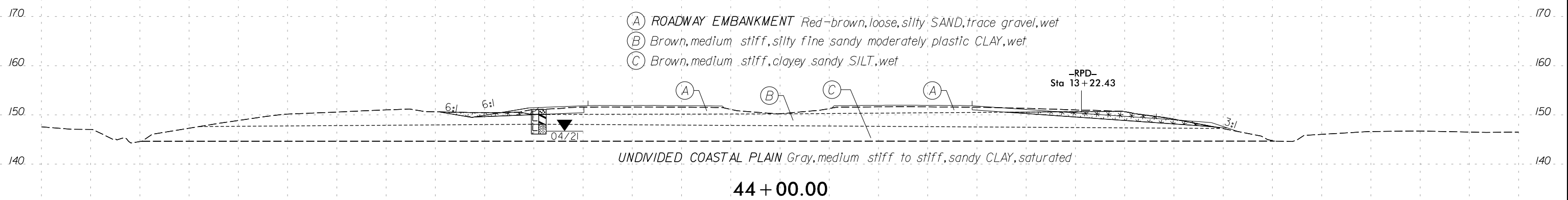
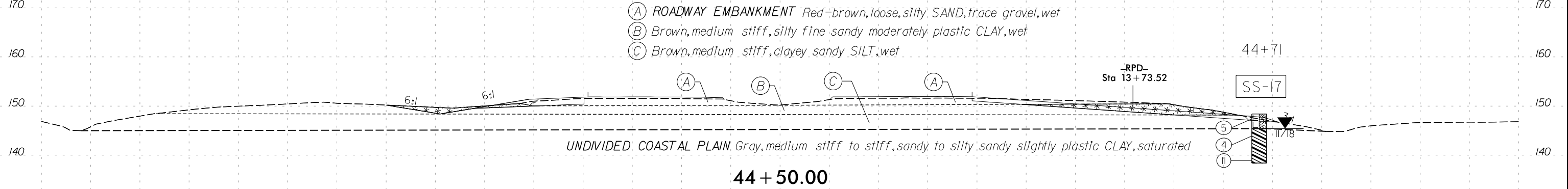


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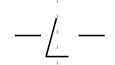


UNCLASSIFIED EXCAVATION - ACCEPTABLE FOR -RPD- CONTINUES ON SHEET 81

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-17	44+71	97' RT	3.5-5.0	A-6 (6)	27	12	7	26	38	29	99	95	73	19.1	-

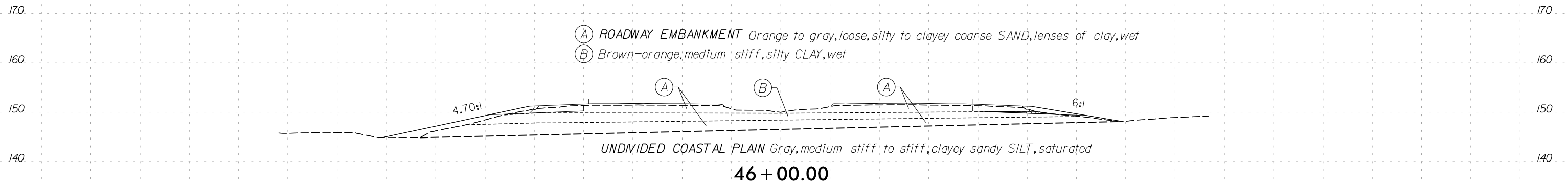
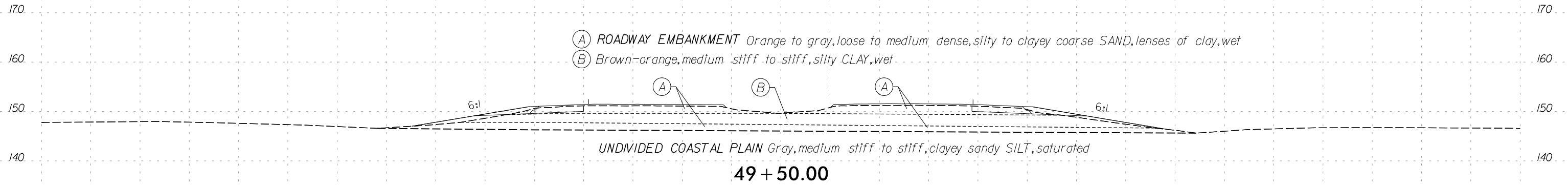


BEGIN UNCLASSIFIED EXCAVATION - ACCEPTABLE -L- STA. 43+75
 BEGIN UNCLASSIFIED EXCAVATION - ACCEPTABLE -RPD- STA. 13+00

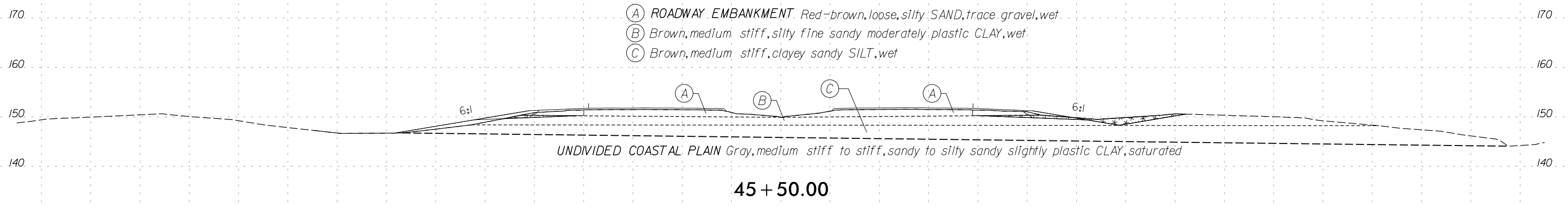




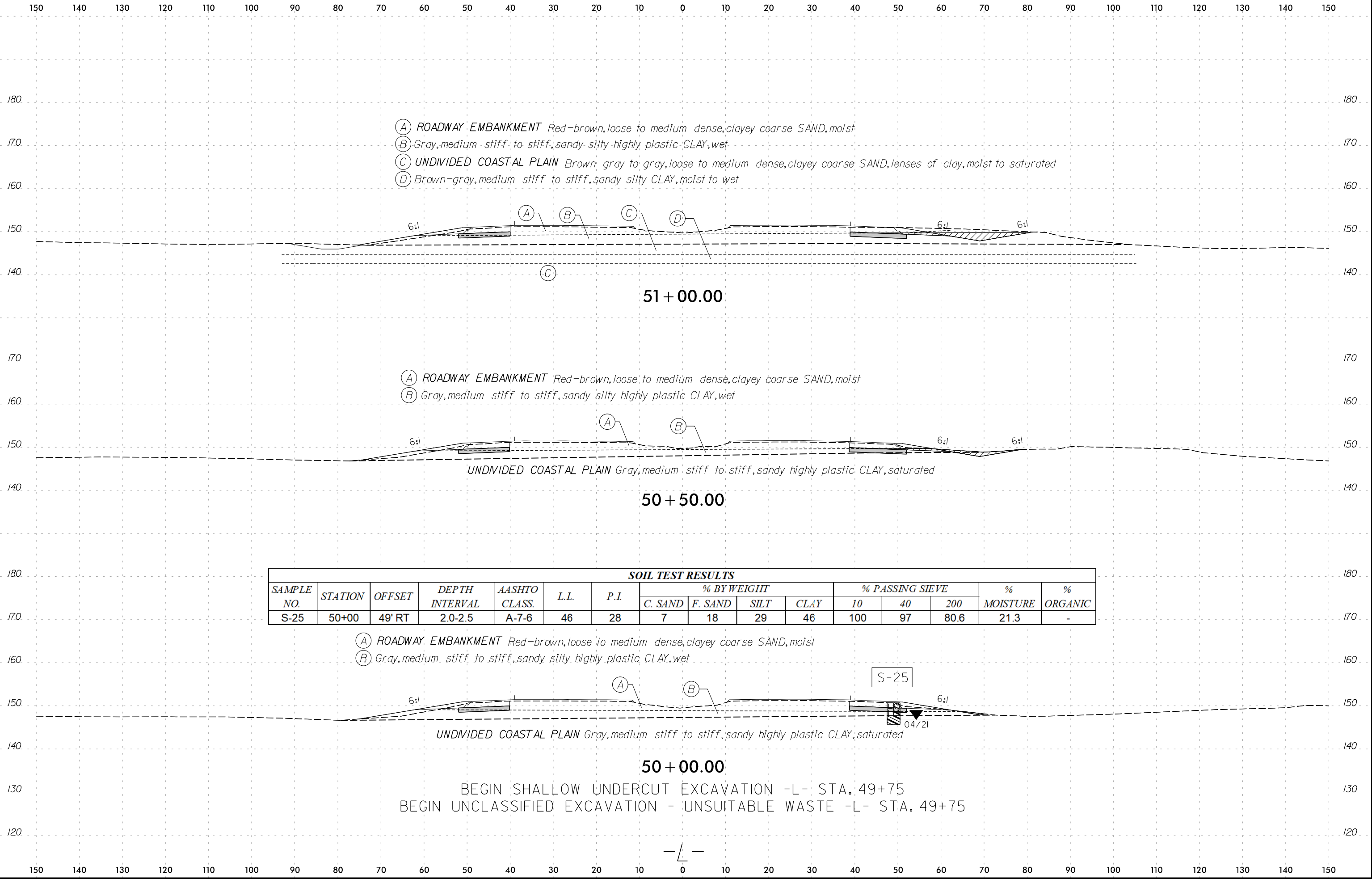
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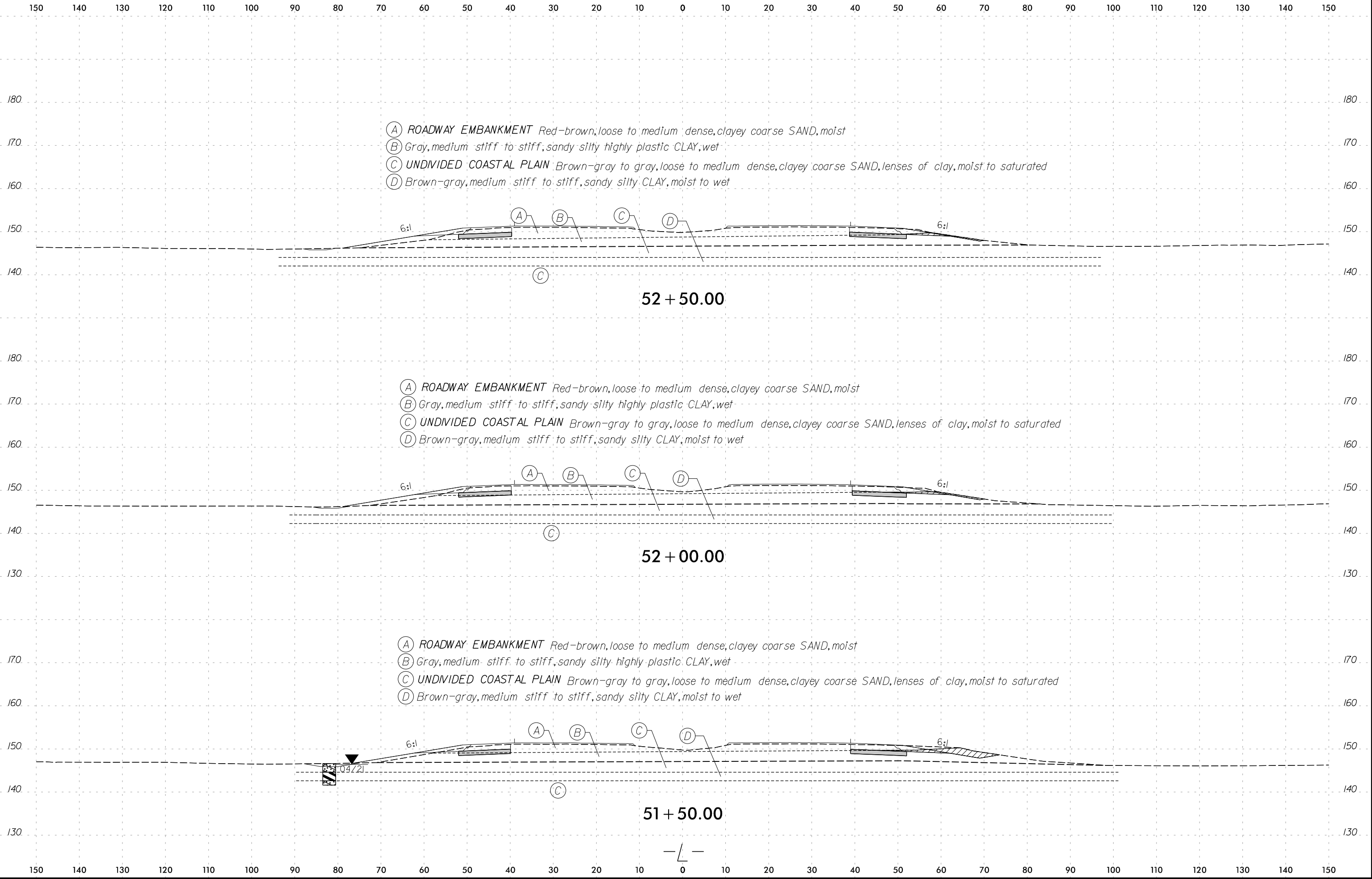
END UNCLASSIFIED EXCAVATION - ACCEPTABLE -L- STA. 45+75



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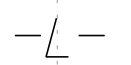
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-25	50+00	49' RT	2.0-2.5	A-7-6	46	28	7	18	29	46	100	97	80.6	21.3	-

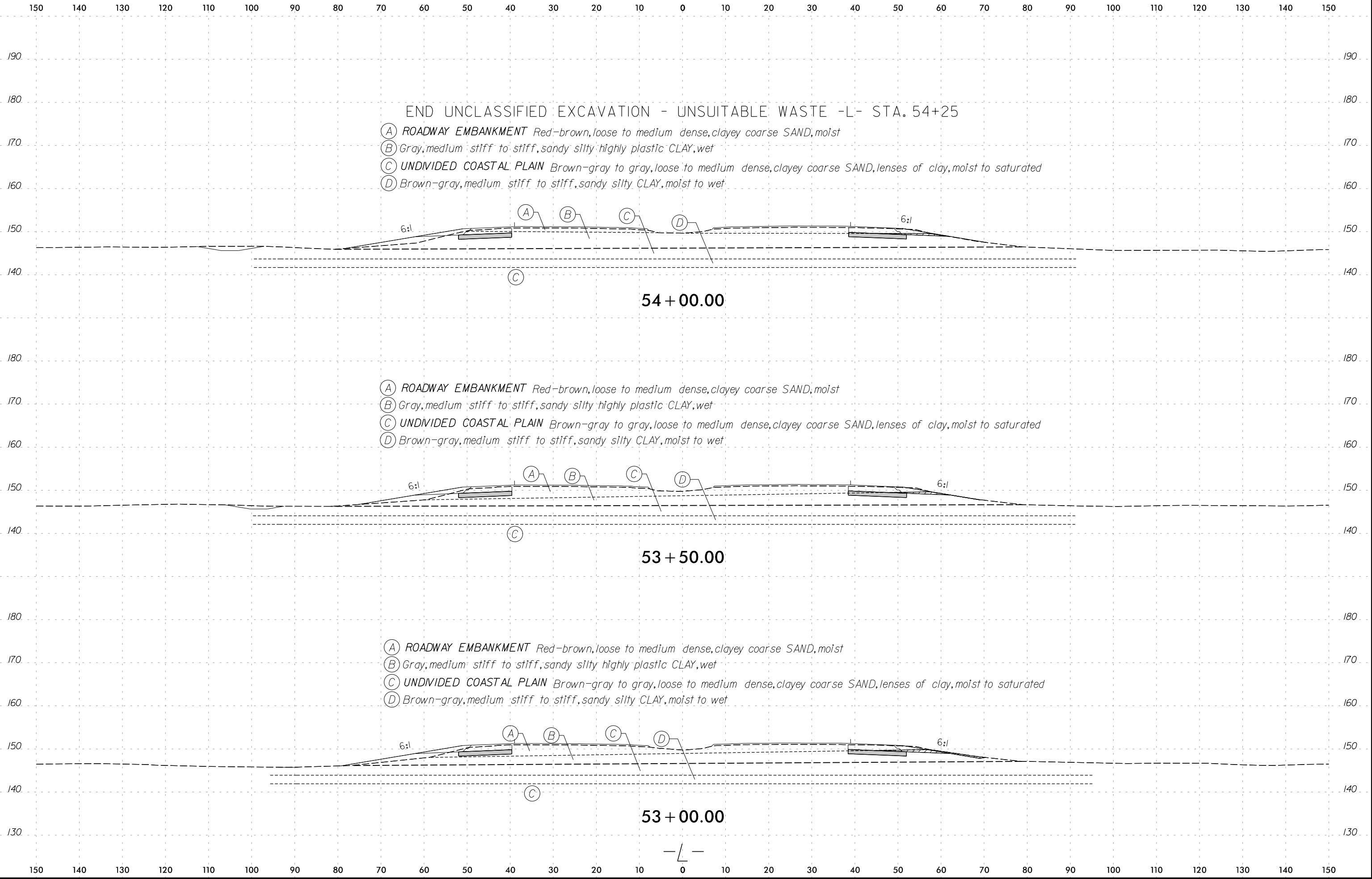


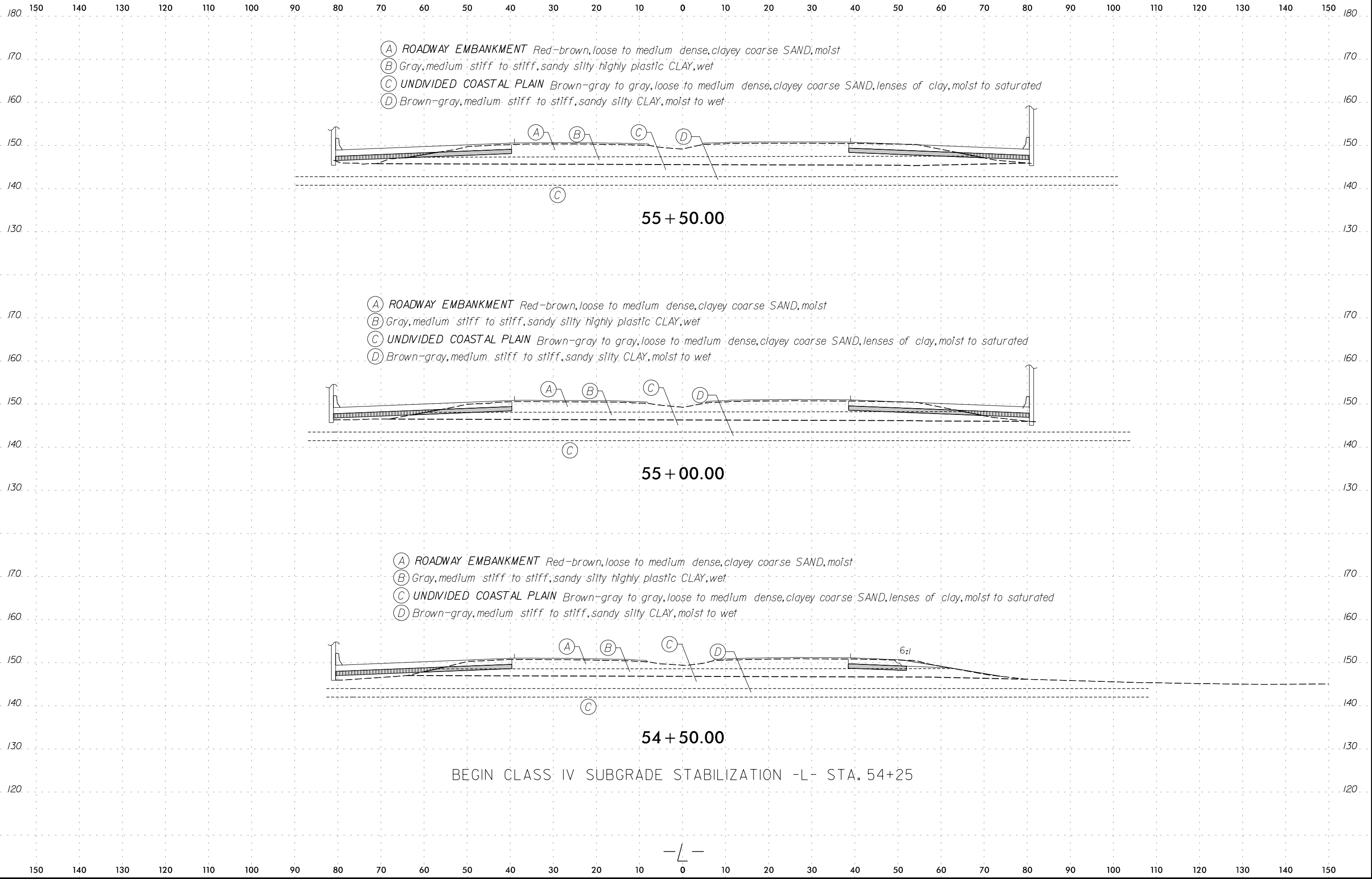
- (A) ROADWAY EMBANKMENT Red-brown, loose to medium dense, clayey coarse SAND, moist
- (B) Gray, medium stiff to stiff, sandy silty highly plastic CLAY, wet
- (C) UNDIVIDED COASTAL PLAIN Brown-gray to gray, loose to medium dense, clayey coarse SAND, lenses of clay, moist to saturated
- (D) Brown-gray, medium stiff to stiff, sandy silty CLAY, moist to wet

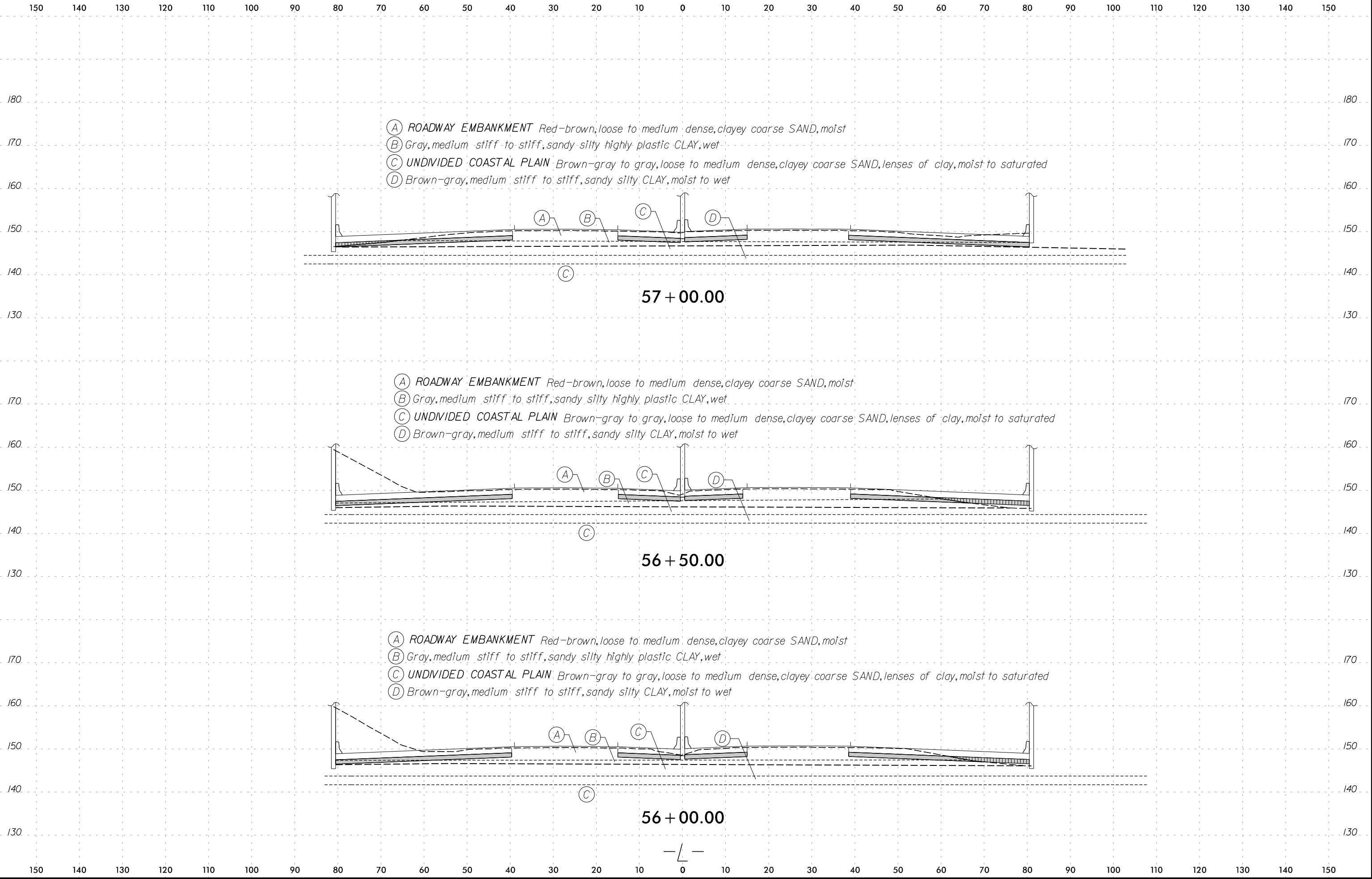
- (A) ROADWAY EMBANKMENT Red-brown, loose to medium dense, clayey coarse SAND, moist
- (B) Gray, medium stiff to stiff, sandy silty highly plastic CLAY, wet
- (C) UNDIVIDED COASTAL PLAIN Brown-gray to gray, loose to medium dense, clayey coarse SAND, lenses of clay, moist to saturated
- (D) Brown-gray, medium stiff to stiff, sandy silty CLAY, moist to wet

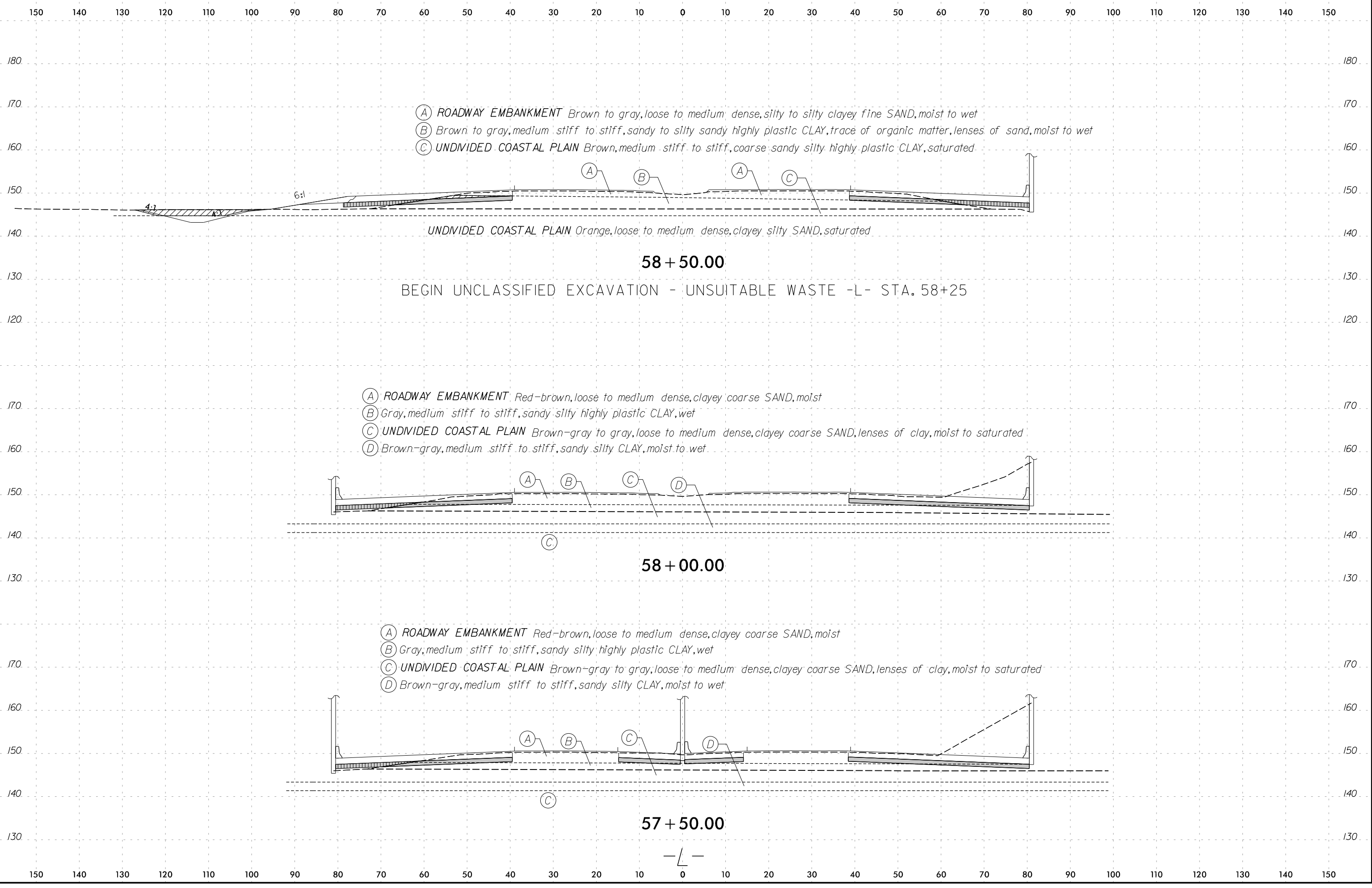
- (A) ROADWAY EMBANKMENT Red-brown, loose to medium dense, clayey coarse SAND, moist
- (B) Gray, medium stiff to stiff, sandy silty highly plastic CLAY, wet
- (C) UNDIVIDED COASTAL PLAIN Brown-gray to gray, loose to medium dense, clayey coarse SAND, lenses of clay, moist to saturated
- (D) Brown-gray, medium stiff to stiff, sandy silty CLAY, moist to wet









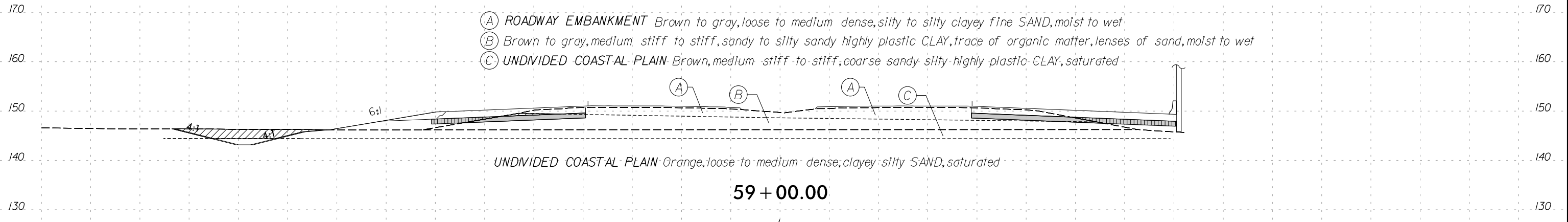
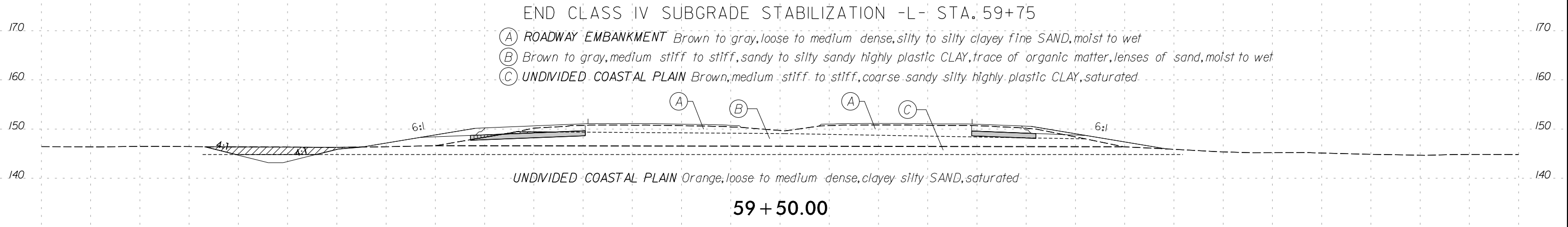
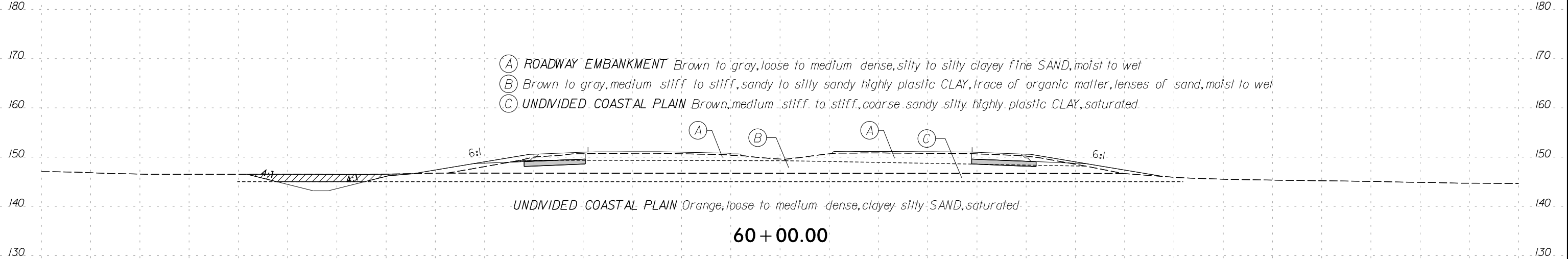


- (A) ROADWAY EMBANKMENT Brown to gray, loose to medium dense, silty to silty clayey fine SAND, moist to wet
- (B) Brown to gray, medium stiff to stiff, sandy to silty sandy highly plastic CLAY, trace of organic matter, lenses of sand, moist to wet
- (C) UNDIVIDED COASTAL PLAIN Brown, medium stiff to stiff, coarse sandy silty highly plastic CLAY, saturated.

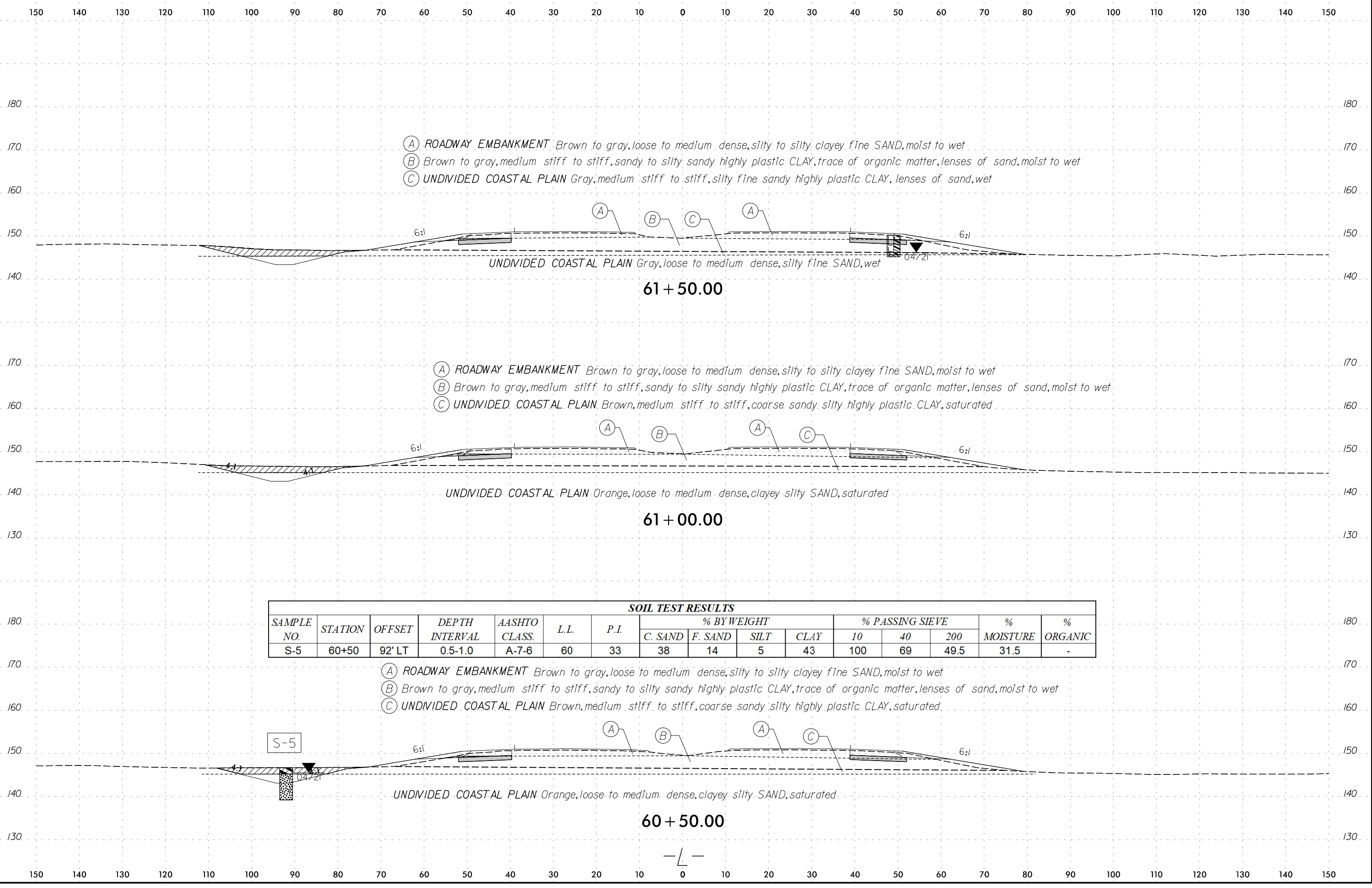
- (A) ROADWAY EMBANKMENT Red-brown, loose to medium dense, clayey coarse SAND, moist
- (B) Gray, medium stiff to stiff, sandy silty highly plastic CLAY, wet
- (C) UNDIVIDED COASTAL PLAIN Brown-gray to gray, loose to medium dense, clayey coarse SAND, lenses of clay, moist to saturated
- (D) Brown-gray, medium stiff to stiff, sandy silty CLAY, moist to wet

- (A) ROADWAY EMBANKMENT Red-brown, loose to medium dense, clayey coarse SAND, moist
- (B) Gray, medium stiff to stiff, sandy silty highly plastic CLAY, wet
- (C) UNDIVIDED COASTAL PLAIN Brown-gray to gray, loose to medium dense, clayey coarse SAND, lenses of clay, moist to saturated
- (D) Brown-gray, medium stiff to stiff, sandy silty CLAY, moist to wet

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



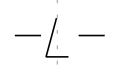
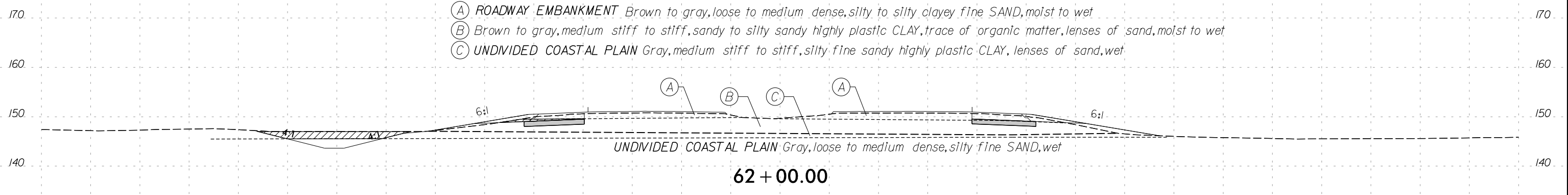
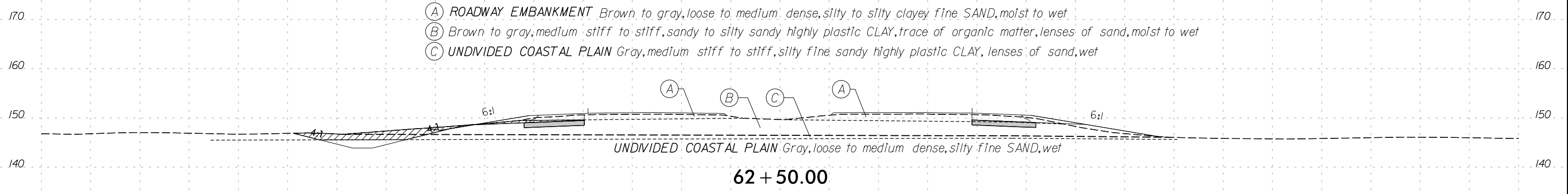
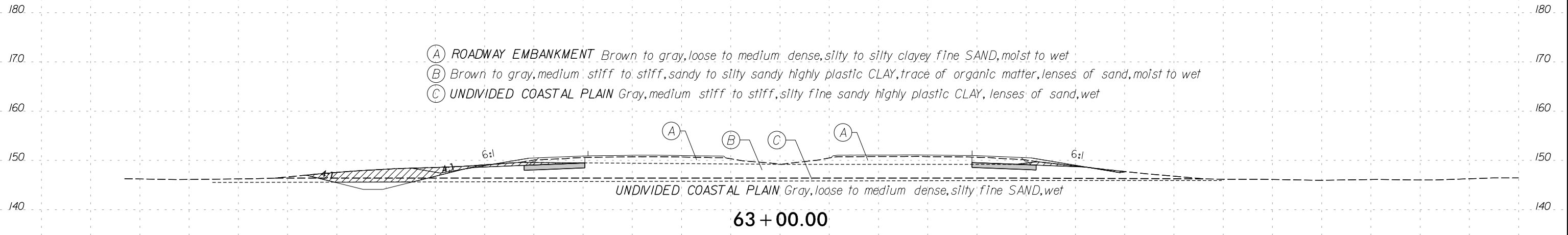
- (A) ROADWAY EMBANKMENT Brown to gray, loose to medium dense, silty to silty clayey fine SAND, moist to wet
- (B) Brown to gray, medium stiff to stiff, sandy to silty sandy highly plastic CLAY, trace of organic matter, lenses of sand, moist to wet
- (C) UNDIVIDED COASTAL PLAIN Gray, medium stiff to stiff, silty fine sandy highly plastic CLAY, lenses of sand, wet

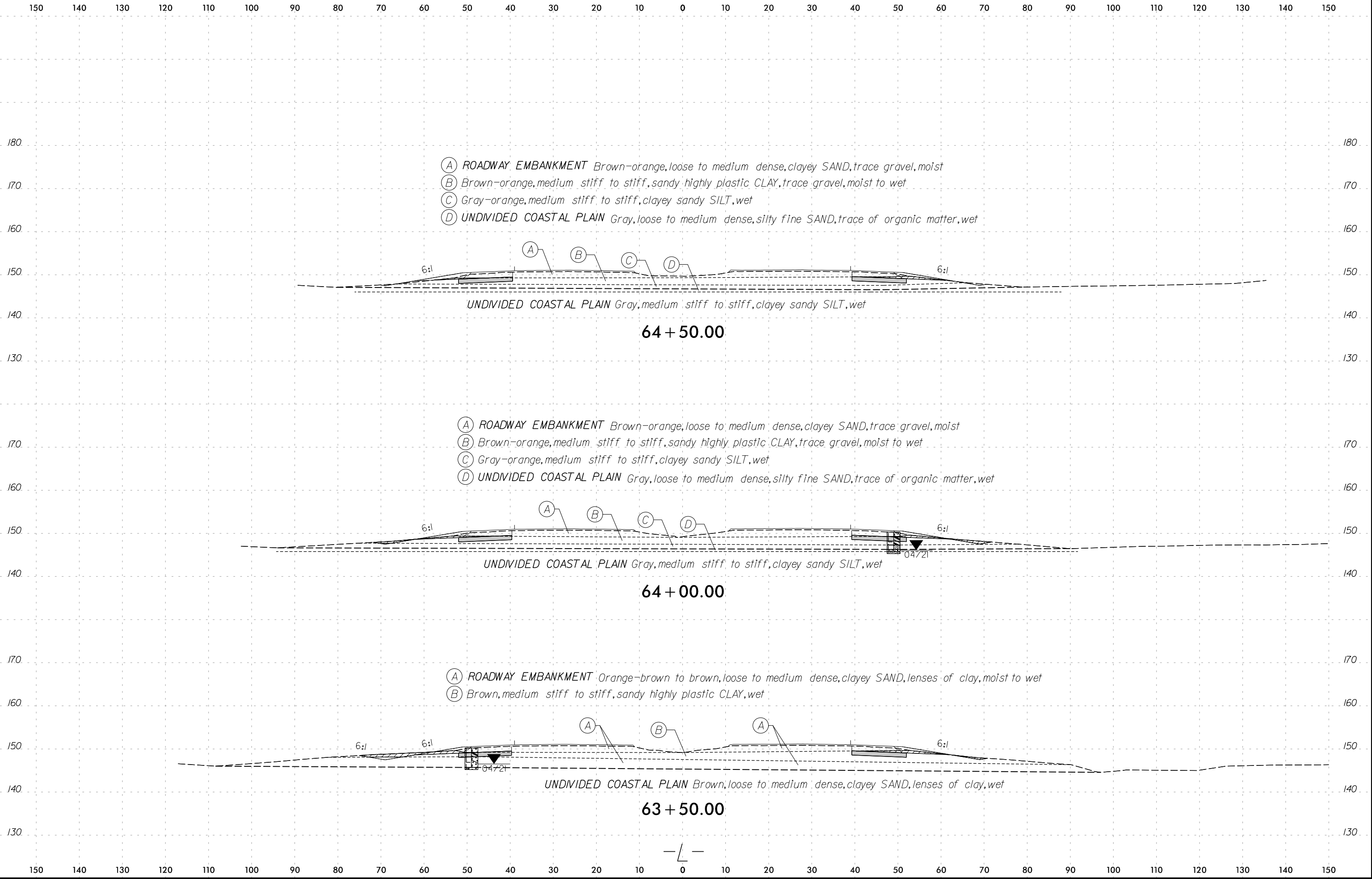
- (A) ROADWAY EMBANKMENT Brown to gray, loose to medium dense, silty to silty clayey fine SAND, moist to wet
- (B) Brown to gray, medium stiff to stiff, sandy to silty sandy highly plastic CLAY, trace of organic matter, lenses of sand, moist to wet
- (C) UNDIVIDED COASTAL PLAIN Brown, medium stiff to stiff, coarse sandy silty highly plastic CLAY, saturated

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-5	60+50	92' LT	0.5-1.0	A-7-6	60	33	38	14	5	43	100	69	49.5	31.5	-

- (A) ROADWAY EMBANKMENT Brown to gray, loose to medium dense, silty to silty clayey fine SAND, moist to wet
- (B) Brown to gray, medium stiff to stiff, sandy to silty sandy highly plastic CLAY, trace of organic matter, lenses of sand, moist to wet
- (C) UNDIVIDED COASTAL PLAIN Brown, medium stiff to stiff, coarse sandy silty highly plastic CLAY, saturated

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





- (A) ROADWAY EMBANKMENT Brown-orange, loose to medium dense, clayey SAND, trace gravel, moist
- (B) Brown-orange, medium stiff to stiff, sandy highly plastic CLAY, trace gravel, moist to wet
- (C) Gray-orange, medium stiff to stiff, clayey sandy SILT, wet
- (D) UNDIVIDED COASTAL PLAIN Gray, loose to medium dense, silty fine SAND, trace of organic matter, wet

- (A) ROADWAY EMBANKMENT Brown-orange, loose to medium dense, clayey SAND, trace gravel, moist
- (B) Brown-orange, medium stiff to stiff, sandy highly plastic CLAY, trace gravel, moist to wet
- (C) Gray-orange, medium stiff to stiff, clayey sandy SILT, wet
- (D) UNDIVIDED COASTAL PLAIN Gray, loose to medium dense, silty fine SAND, trace of organic matter, wet

- (A) ROADWAY EMBANKMENT Orange-brown to brown, loose to medium dense, clayey SAND, lenses of clay, moist to wet
- (B) Brown, medium stiff to stiff, sandy highly plastic CLAY, wet

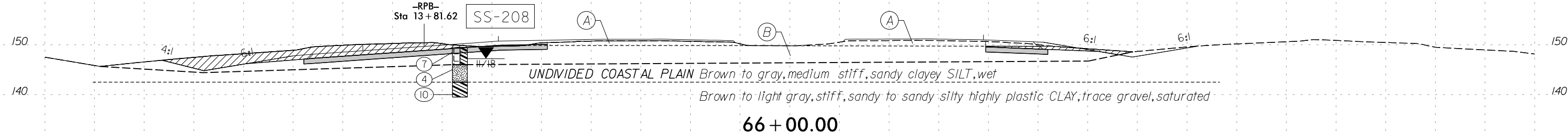
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190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

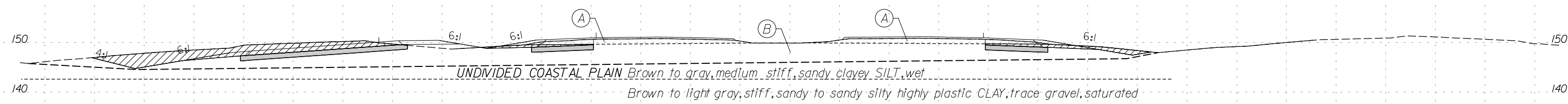
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-208	65+79	66' LT	3.5-5.0	A-4 (2)	23	6	10	26	40	24	98	92	71.6	18.3	-

65+79

(A) ROADWAY EMBANKMENT Brown, loose to medium dense, silty SAND, moist
 (B) Brown to brown-orange, medium stiff, sandy to sandy silty highly plastic CLAY, trace gravel, moist to wet

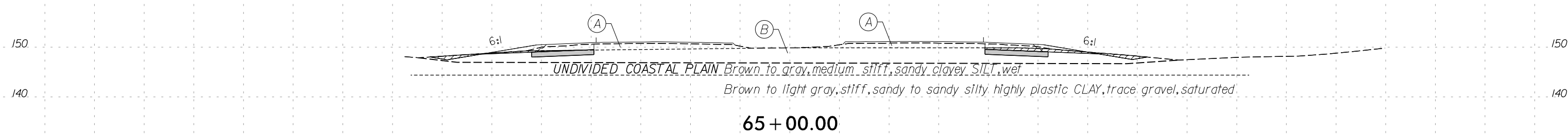


(A) ROADWAY EMBANKMENT Brown, loose to medium dense, silty SAND, moist
 (B) Brown to brown-orange, medium stiff, sandy to sandy silty highly plastic CLAY, trace gravel, moist to wet



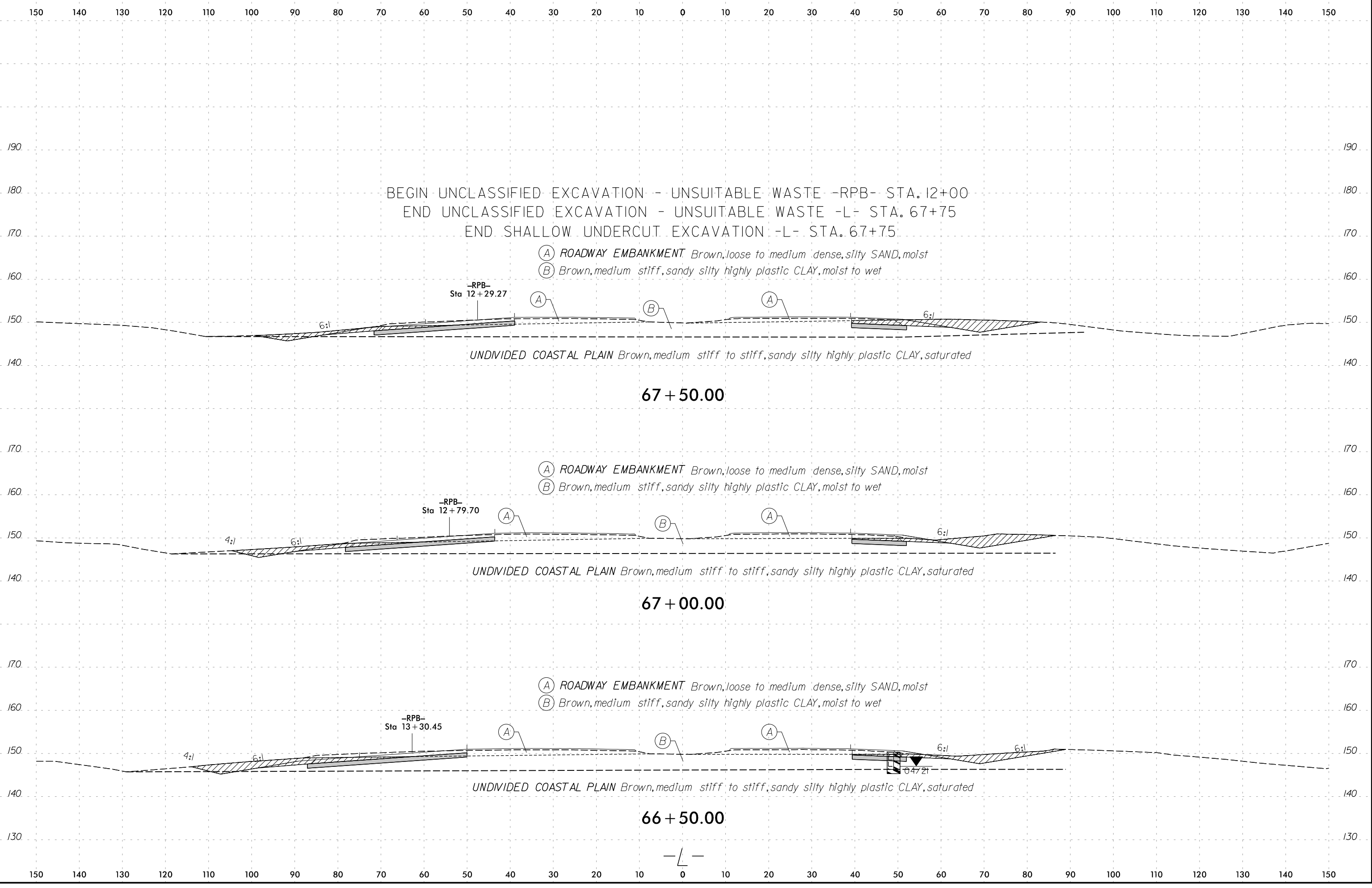
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE FOR -RPB- CONTINUES ON SHEET 71
 SHALLOW UNDERCUT EXCAVATION FOR -RPB- CONTINUES ON SHEET 71

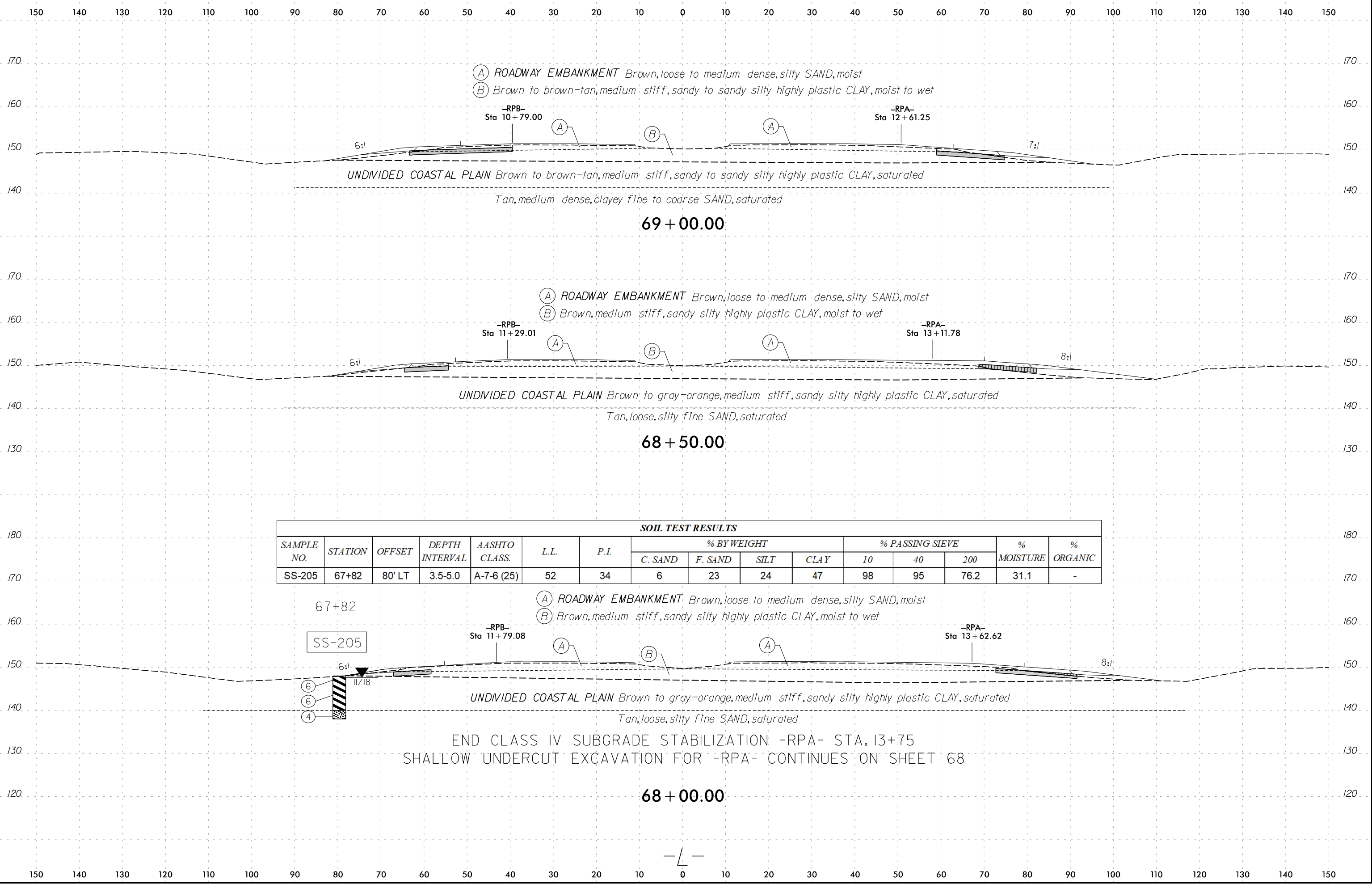
(A) ROADWAY EMBANKMENT Brown, loose to medium dense, silty SAND, moist
 (B) Brown to brown-orange, medium stiff, sandy to sandy silty highly plastic CLAY, trace gravel, moist to wet



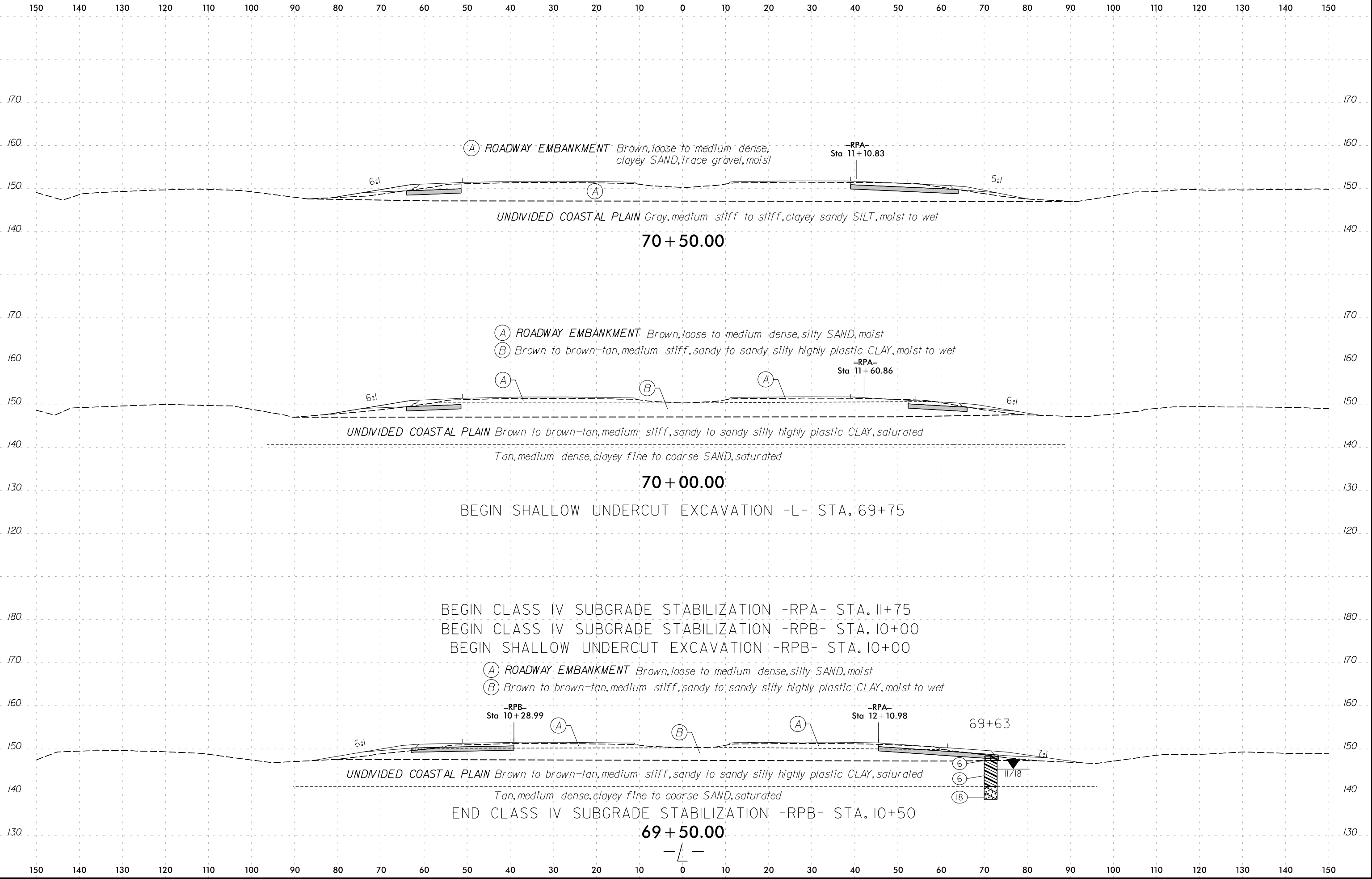
— L —

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





SOIL TEST RESULTS																
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200			
SS-205	67+82	80' LT	3.5-5.0	A-7-6 (25)	52	34	6	23	24	47	98	95	76.2	31.1	-	



(A) ROADWAY EMBANKMENT *Brown, loose to medium dense, clayey SAND, trace gravel, moist*

-RPA-
Sta 11+10.83

UNDIVIDED COASTAL PLAIN *Gray, medium stiff to stiff, clayey sandy SILT, moist to wet*

70+50.00

(A) ROADWAY EMBANKMENT *Brown, loose to medium dense, silty SAND, moist*
 (B) *Brown to brown-tan, medium stiff, sandy to sandy, silty highly plastic CLAY, moist to wet*

-RPA-
Sta 11+60.86

UNDIVIDED COASTAL PLAIN *Brown to brown-tan, medium stiff, sandy to sandy silty highly plastic CLAY, saturated*

Tan, medium dense, clayey fine to coarse SAND, saturated

70+00.00

BEGIN SHALLOW UNDERCUT EXCAVATION -L- STA. 69+75

BEGIN CLASS IV SUBGRADE STABILIZATION -RPA- STA. 11+75
 BEGIN CLASS IV SUBGRADE STABILIZATION -RPB- STA. 10+00
 BEGIN SHALLOW UNDERCUT EXCAVATION -RPB- STA. 10+00

(A) ROADWAY EMBANKMENT *Brown, loose to medium dense, silty SAND, moist*
 (B) *Brown to brown-tan, medium stiff, sandy to sandy silty highly plastic CLAY, moist to wet*

-RPB-
Sta 10+28.99

-RPA-
Sta 12+10.98

UNDIVIDED COASTAL PLAIN *Brown to brown-tan, medium stiff, sandy to sandy silty highly plastic CLAY, saturated*

Tan, medium dense, clayey fine to coarse SAND, saturated

69+50.00

END CLASS IV SUBGRADE STABILIZATION -RPB- STA. 10+50

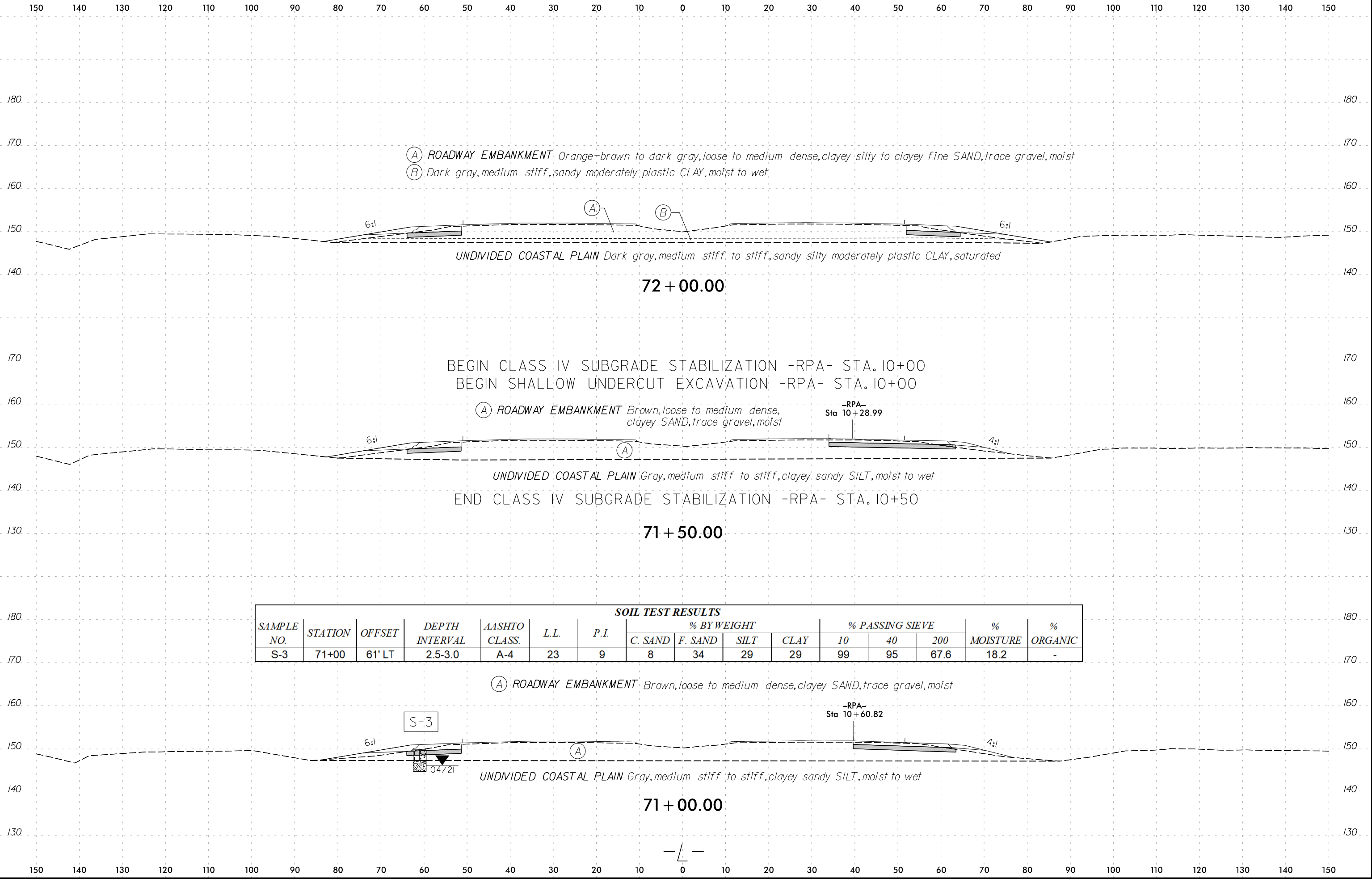
69+63

6

6

18

11/18



(A) ROADWAY EMBANKMENT Orange-brown to dark gray, loose to medium dense, clayey silty to clayey fine SAND, trace gravel, moist
 (B) Dark gray, medium stiff, sandy moderately plastic CLAY, moist to wet

UNDIVIDED COASTAL PLAIN Dark gray, medium stiff to stiff, sandy silty moderately plastic CLAY, saturated

72 + 00.00

BEGIN CLASS IV SUBGRADE STABILIZATION -RPA- STA. 10+00
 BEGIN SHALLOW UNDERCUT EXCAVATION -RPA- STA. 10+00

(A) ROADWAY EMBANKMENT Brown, loose to medium dense, clayey SAND, trace gravel, moist

-RPA- Sta 10+28.99

UNDIVIDED COASTAL PLAIN Gray, medium stiff to stiff, clayey sandy SILT, moist to wet

END CLASS IV SUBGRADE STABILIZATION -RPA- STA. 10+50

71 + 50.00

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-3	71+00	61' LT	2.5-3.0	A-4	23	9	8	34	29	29	99	95	67.6	18.2	-

(A) ROADWAY EMBANKMENT Brown, loose to medium dense, clayey SAND, trace gravel, moist

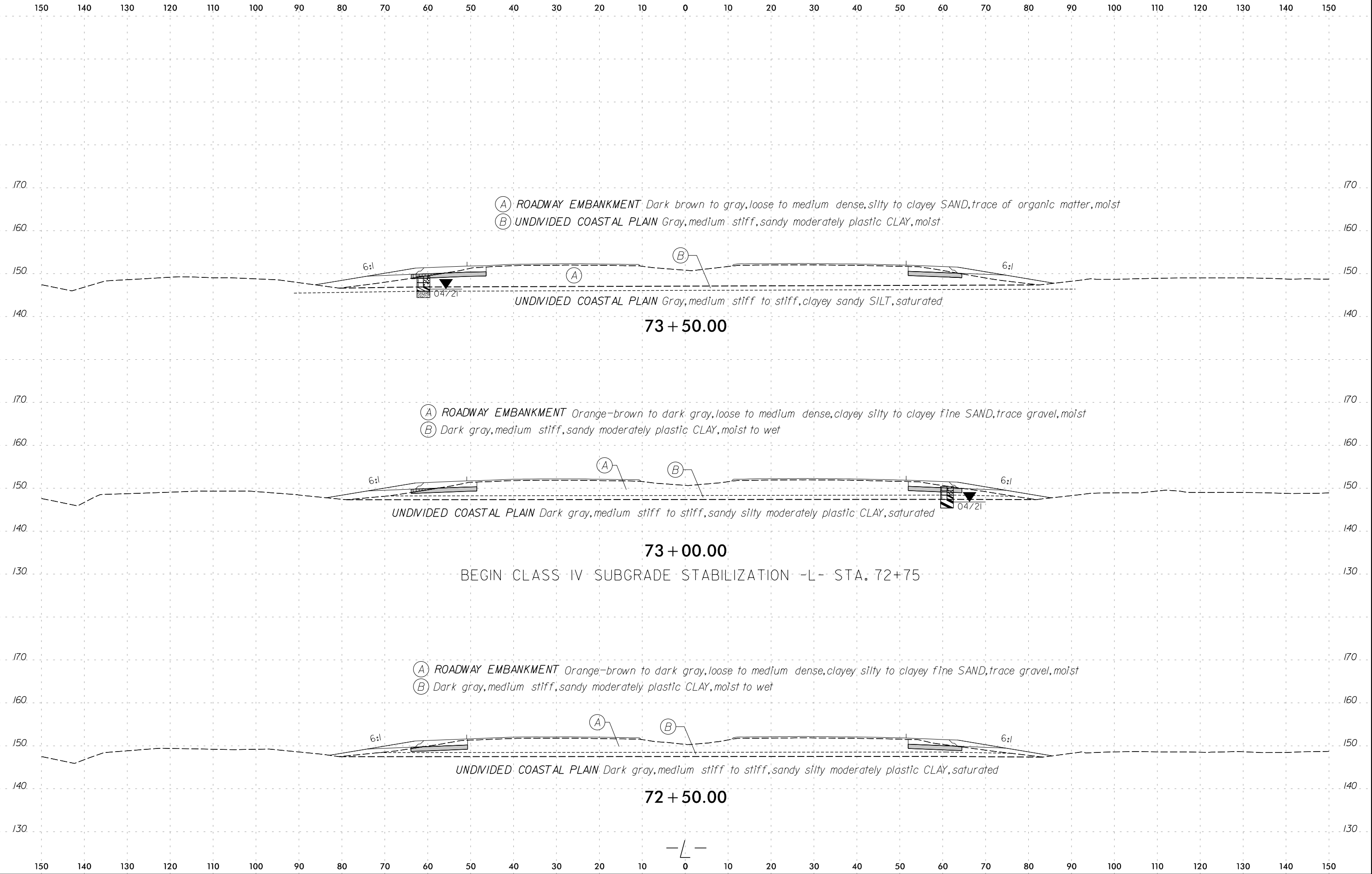
-RPA- Sta 10+60.82

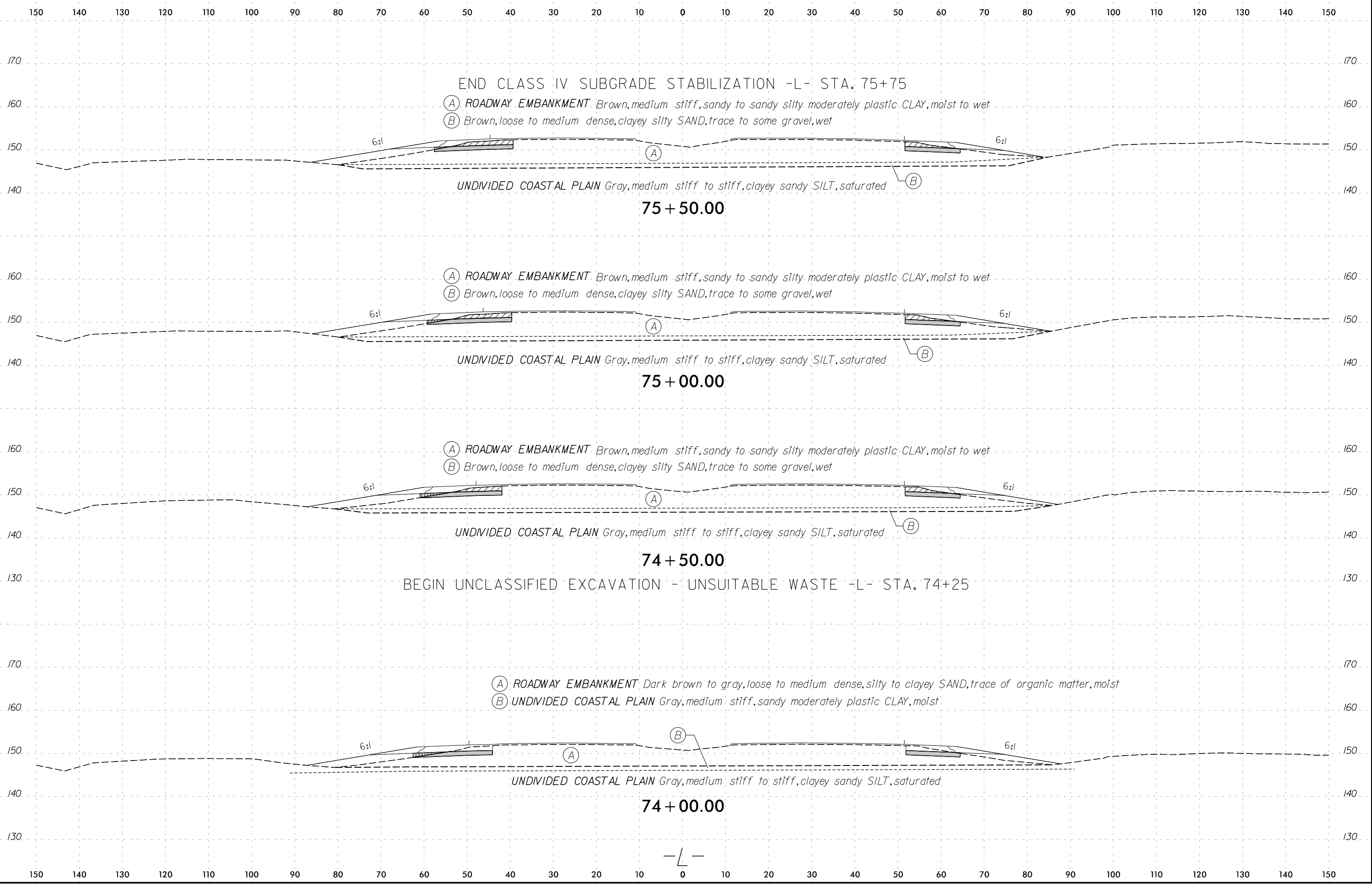
S-3

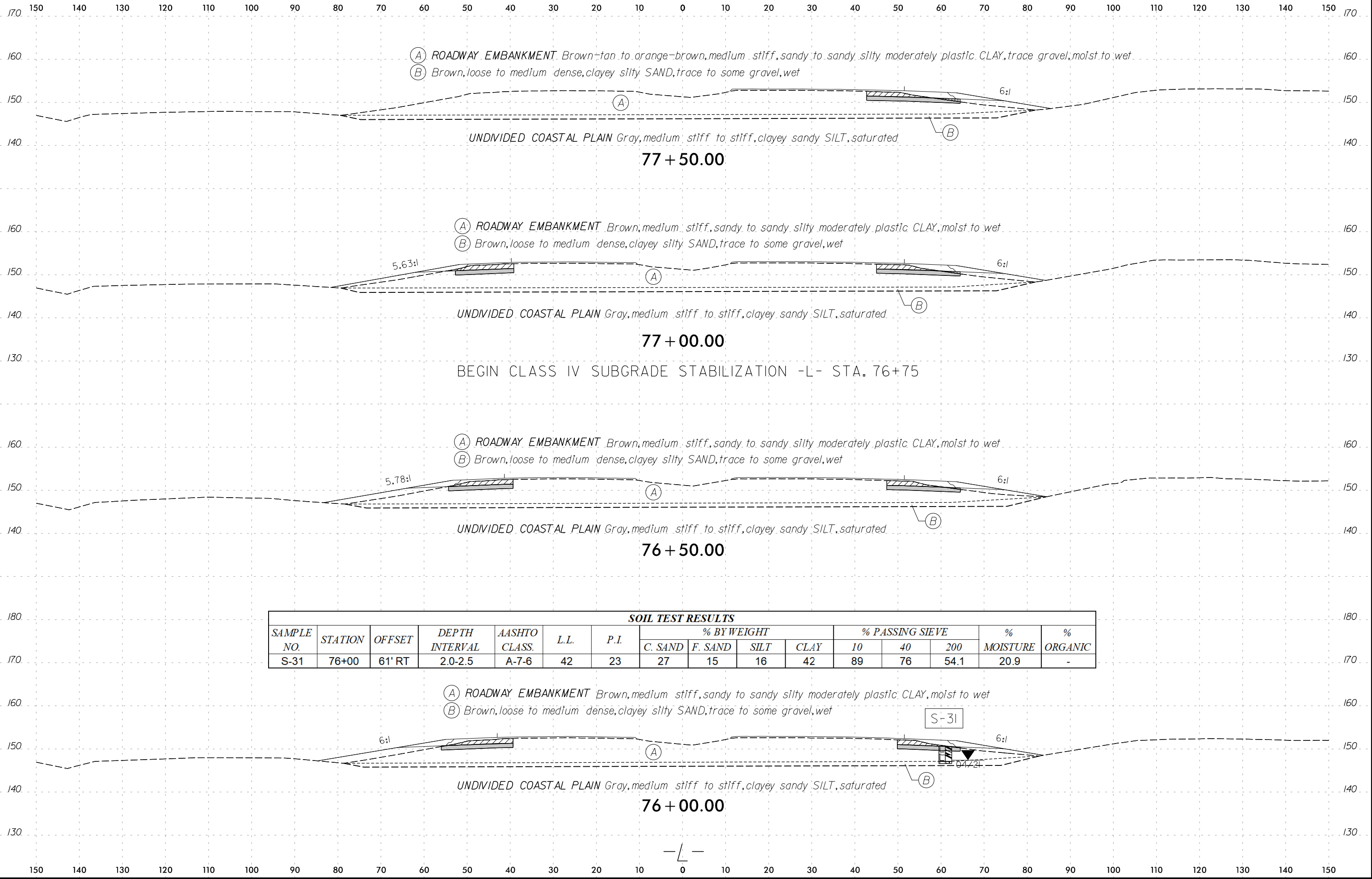
04/21

UNDIVIDED COASTAL PLAIN Gray, medium stiff to stiff, clayey sandy SILT, moist to wet

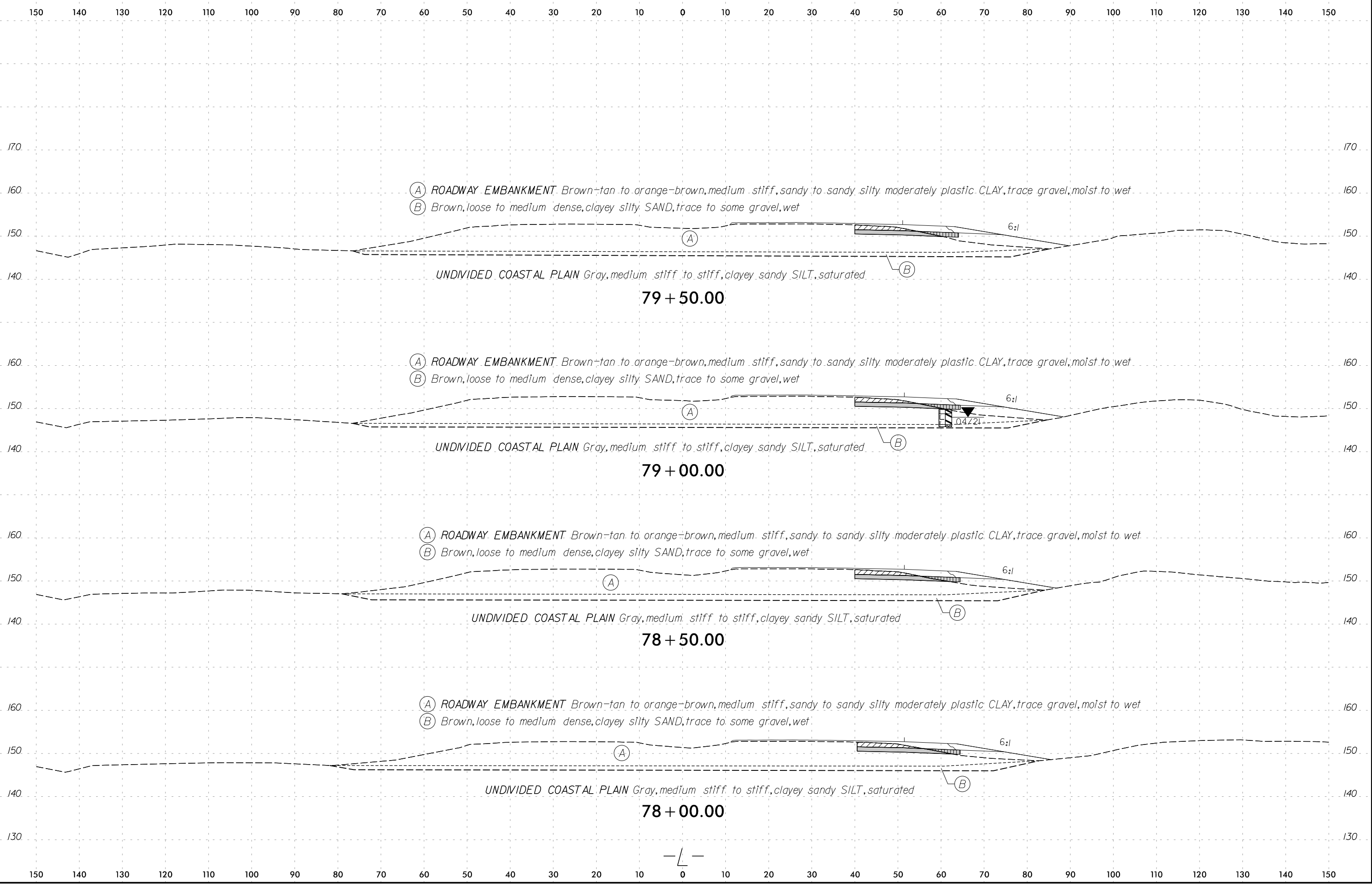
71 + 00.00

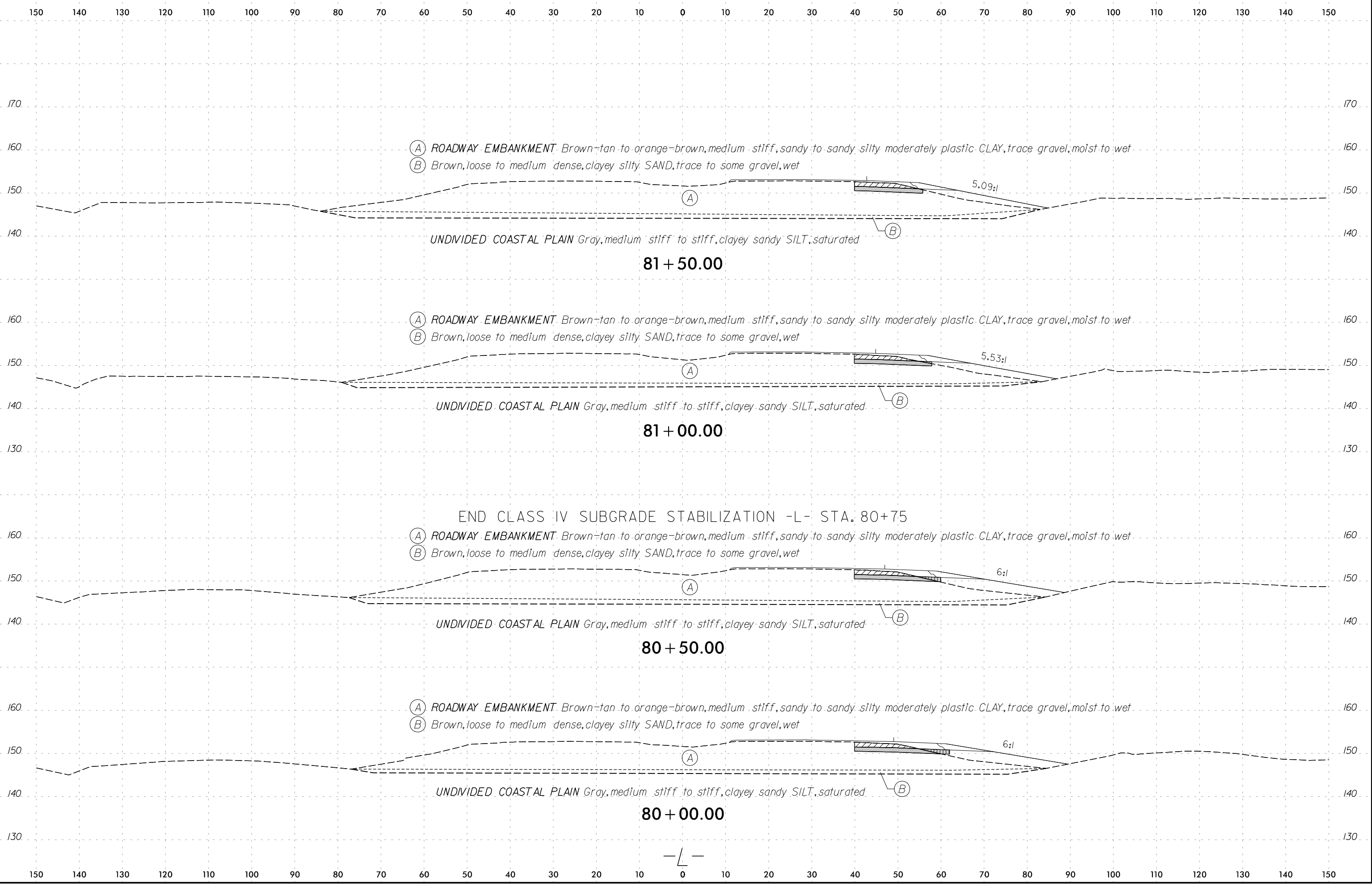




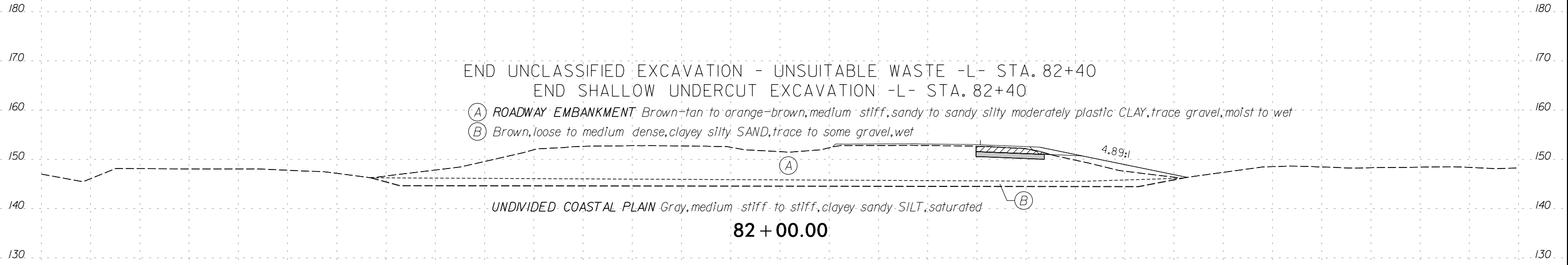


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-31	76+00	61' RT	2.0-2.5	A-7-6	42	23	27	15	16	42	89	76	54.1	20.9	-

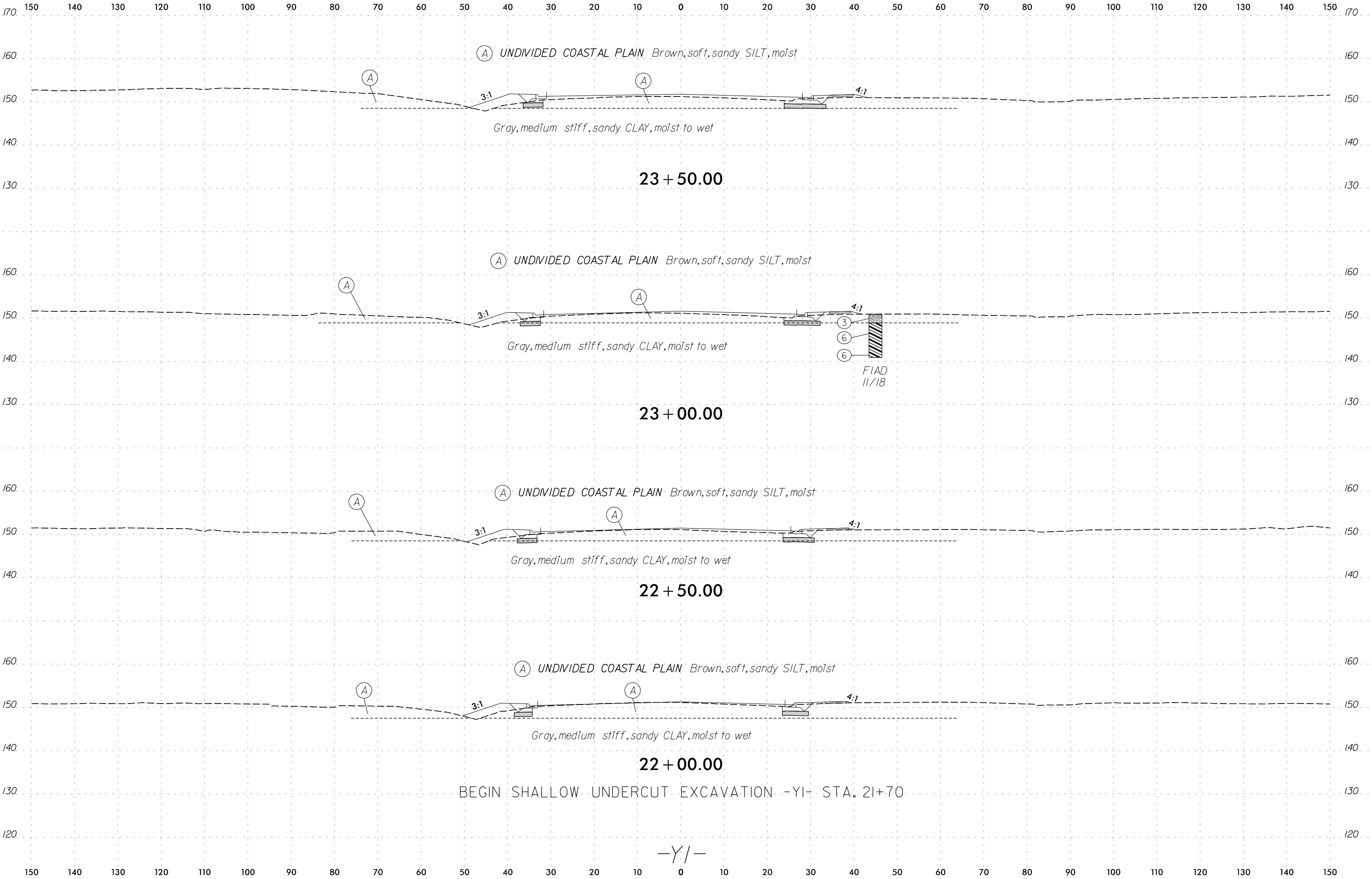




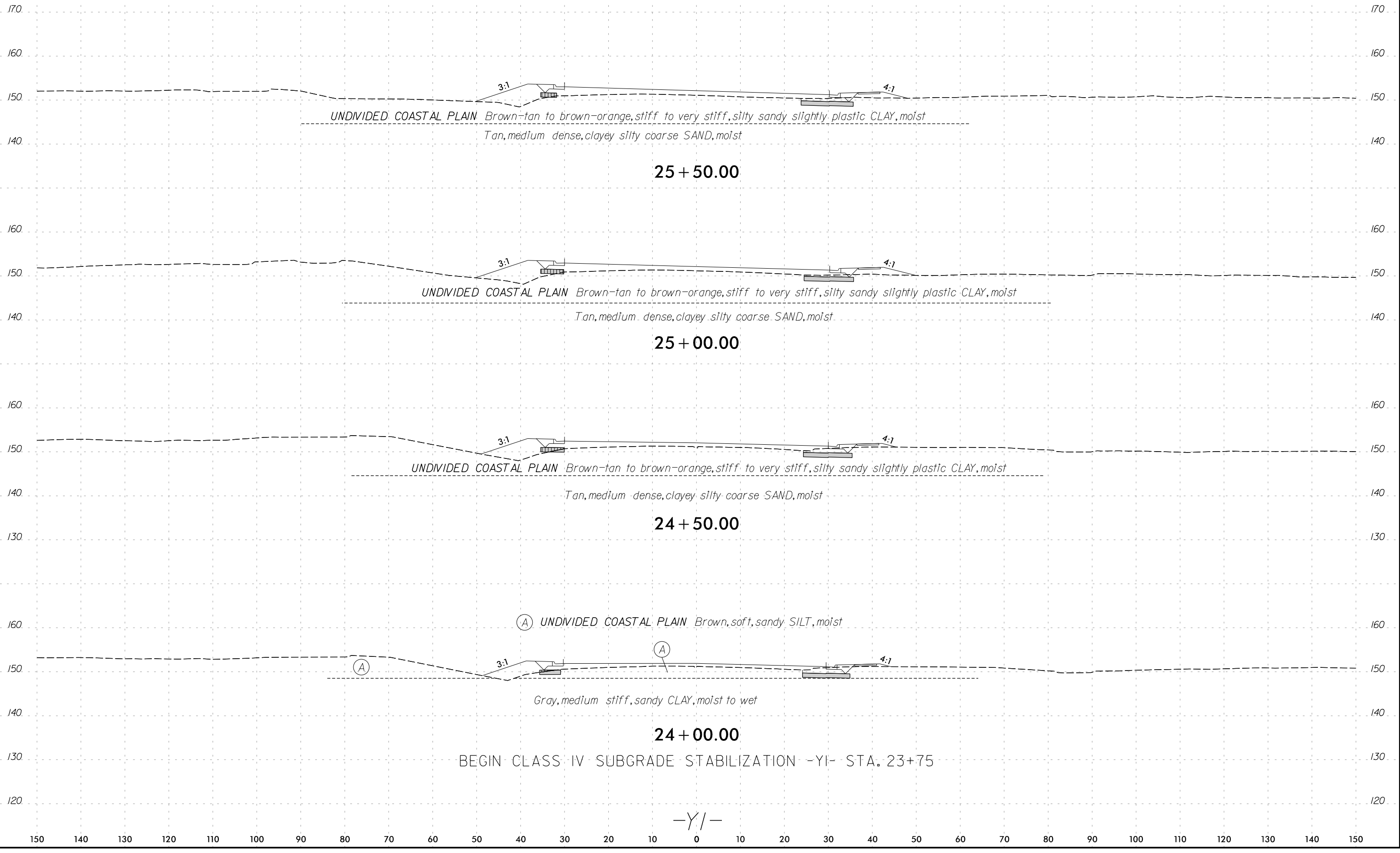
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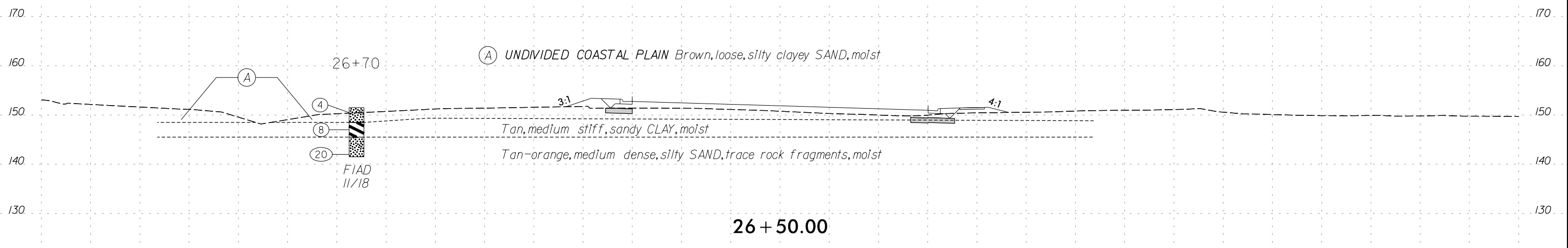
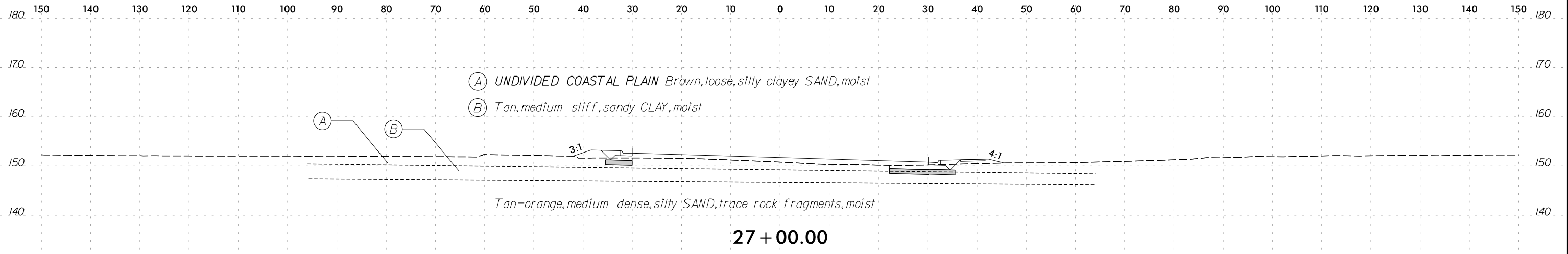
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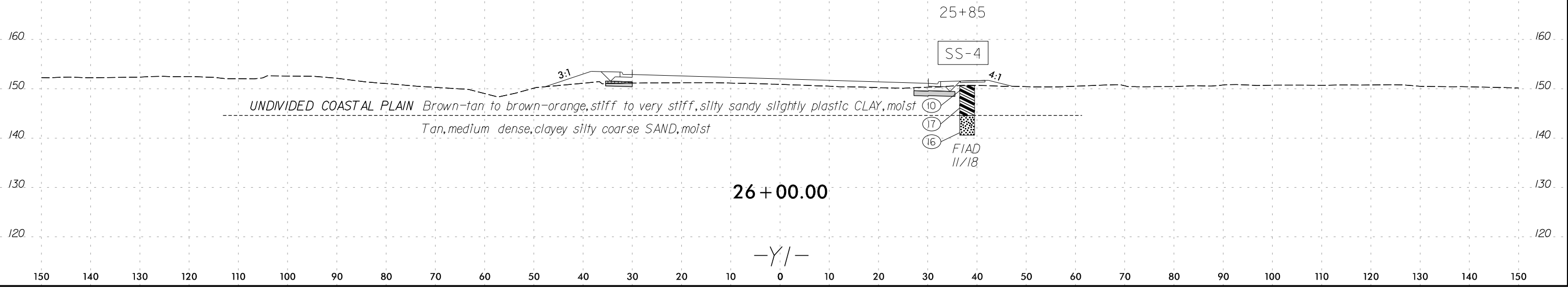


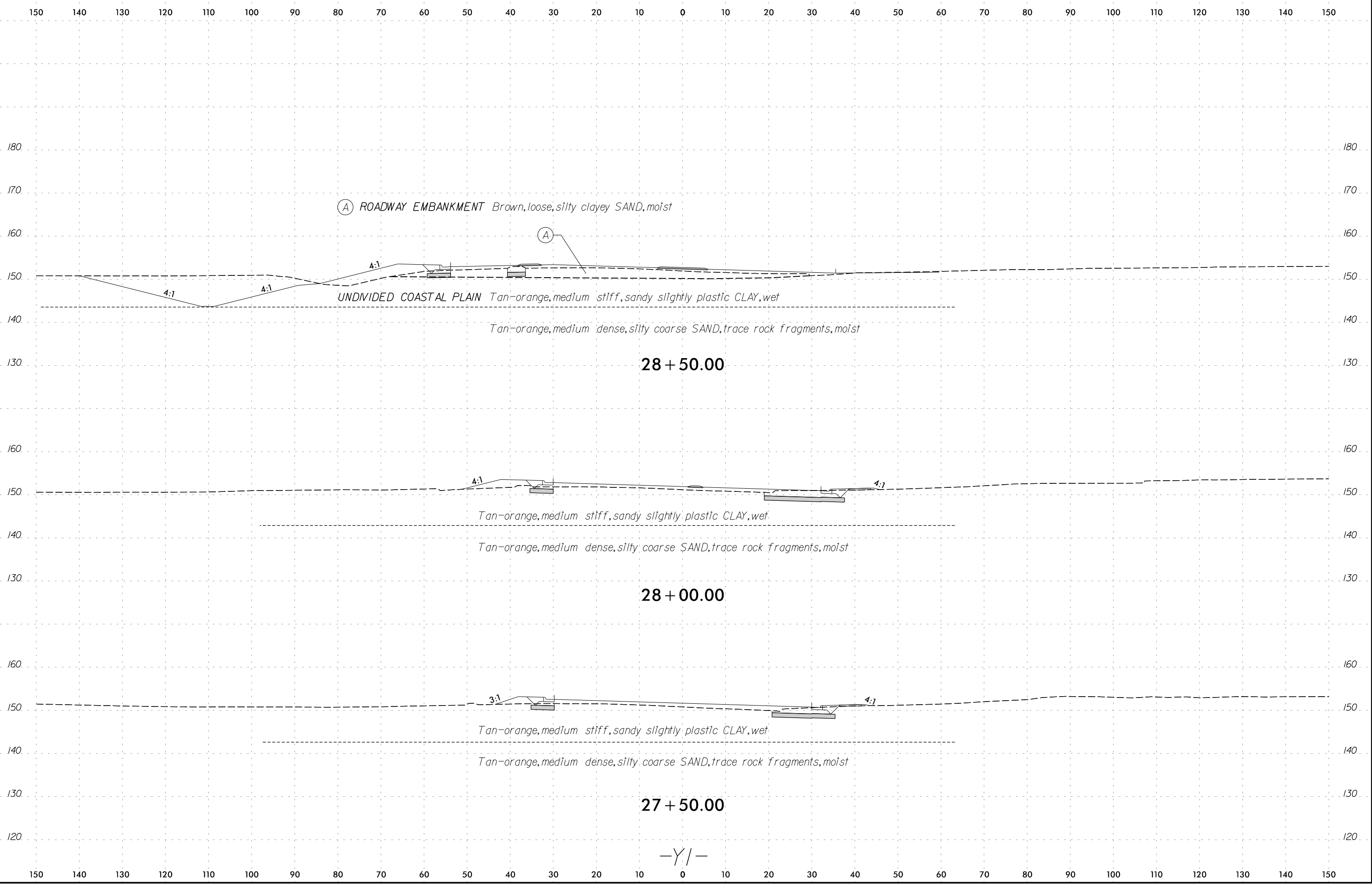
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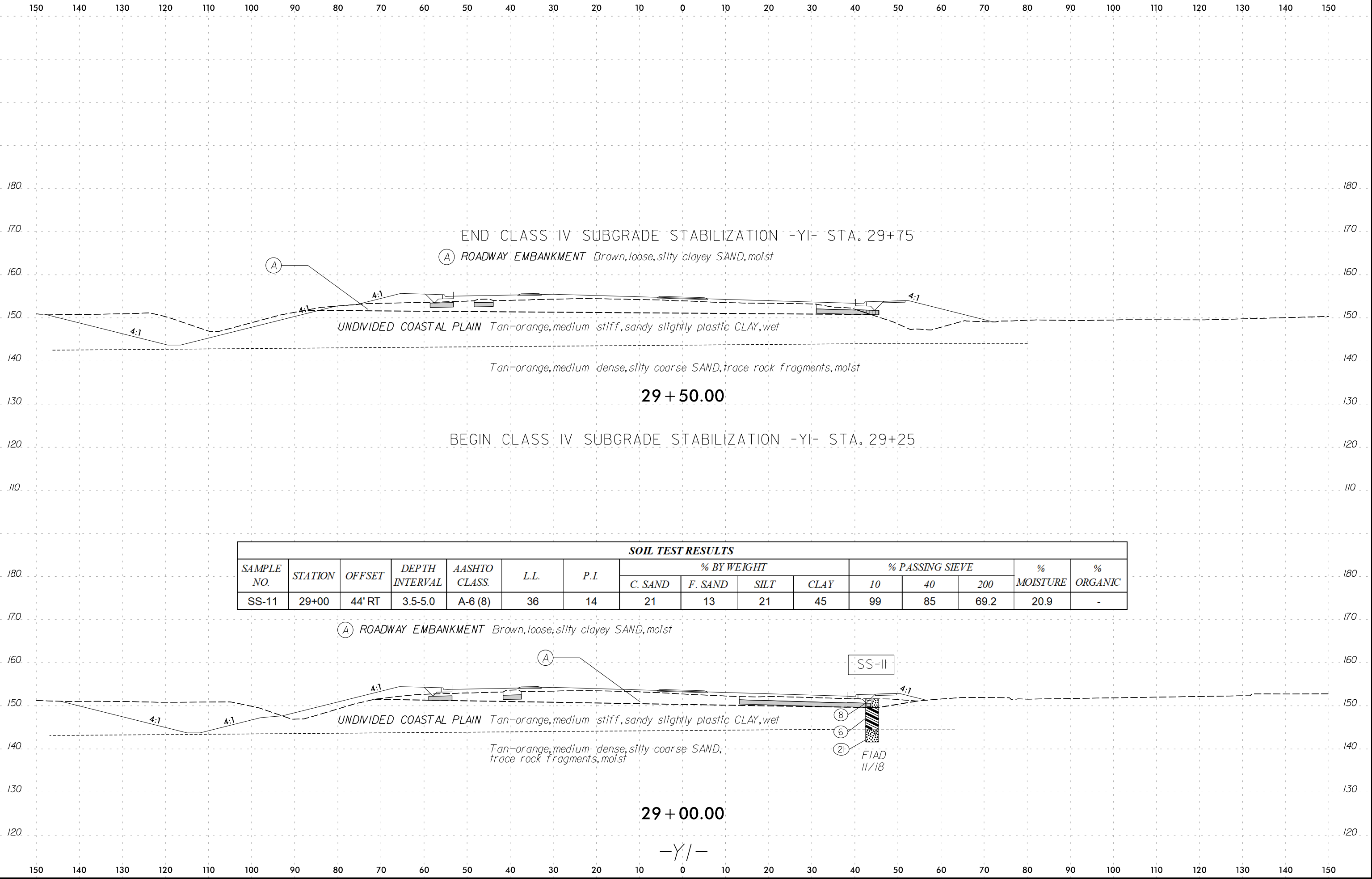


END CLASS IV SUBGRADE STABILIZATION -YI- STA. 26+25

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-4	25+85	38' RT	0.0-1.5	A-6 (2)	26	11	31	19	24	26	95	76	51.3	13.6	-

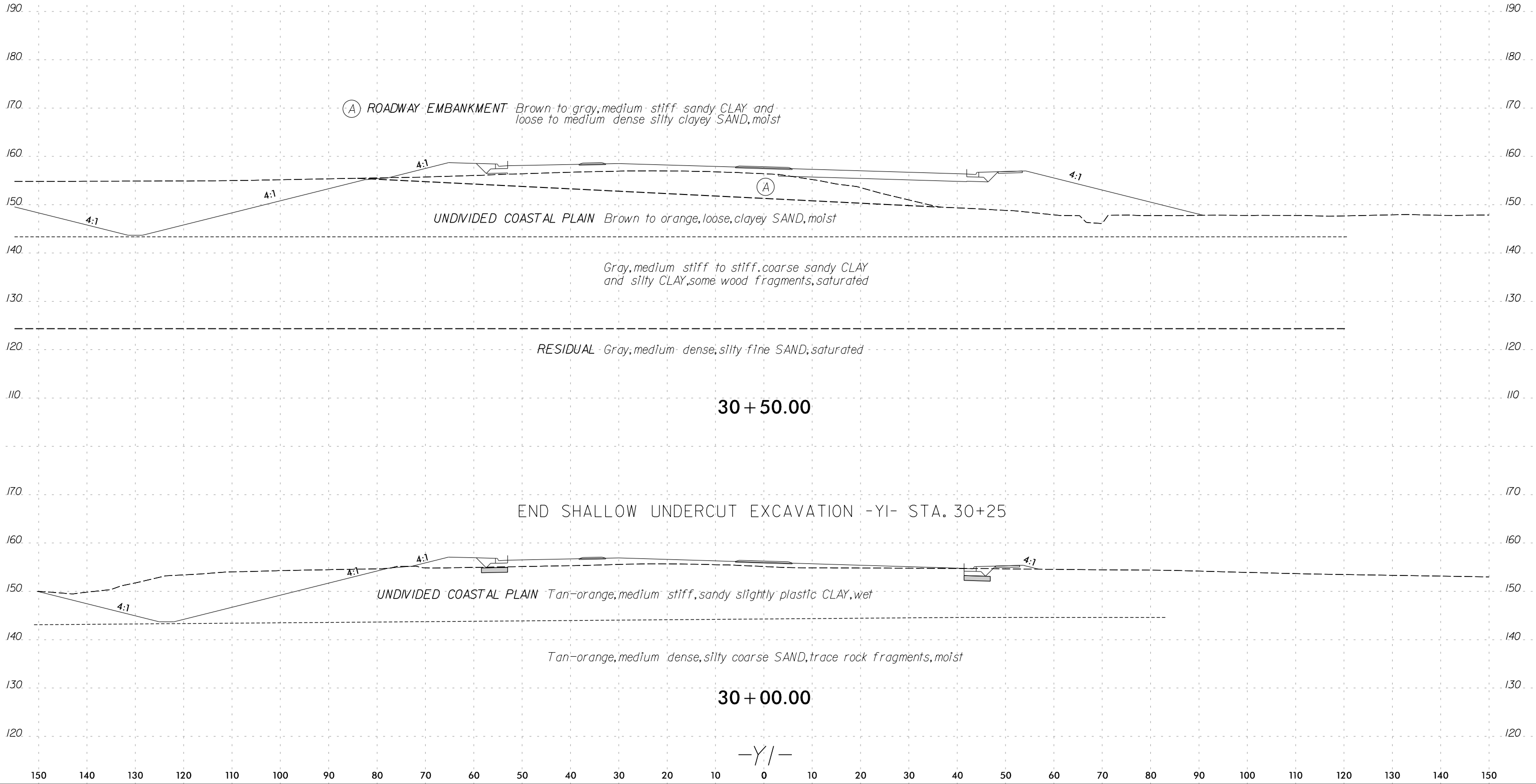


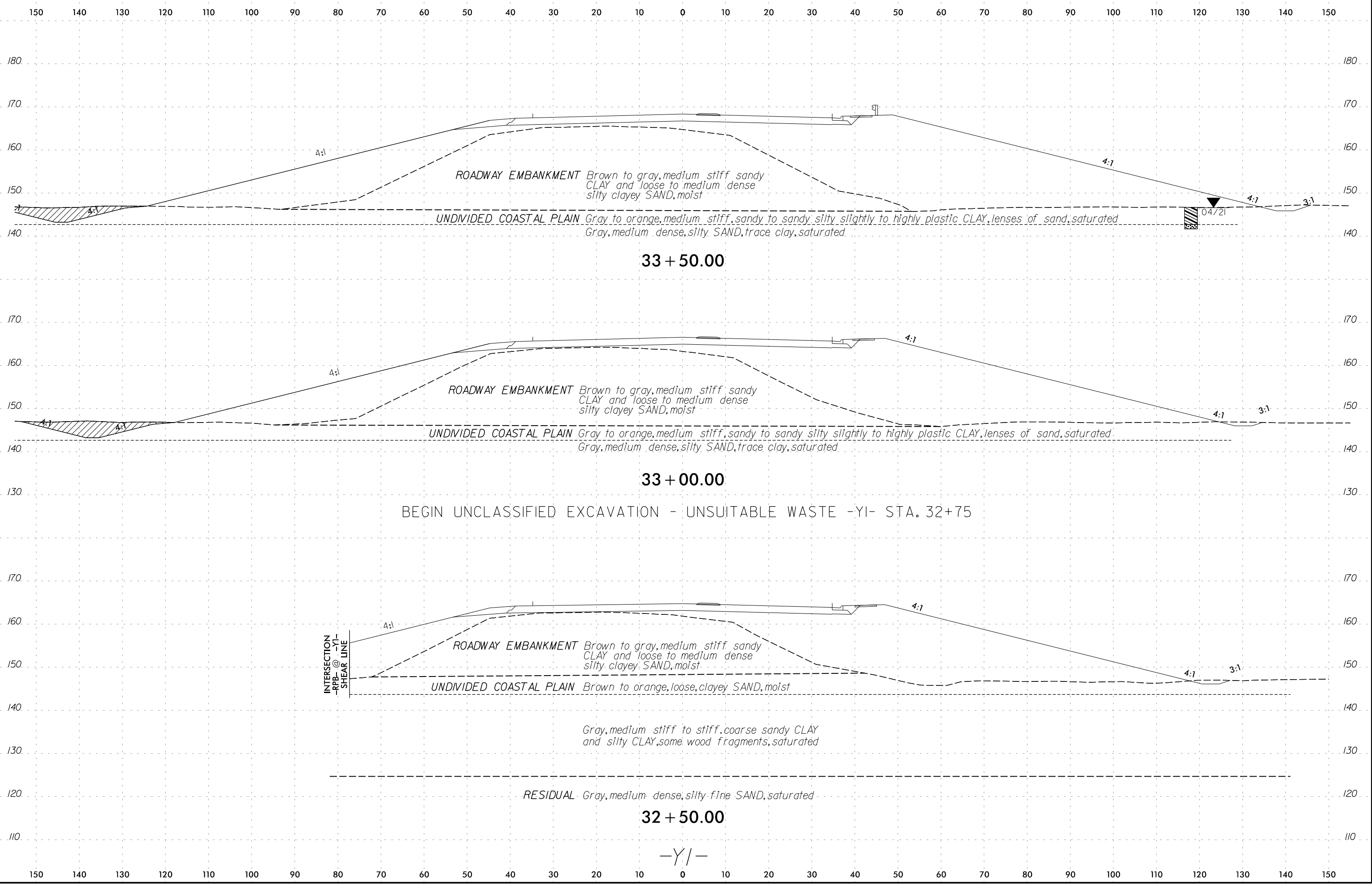




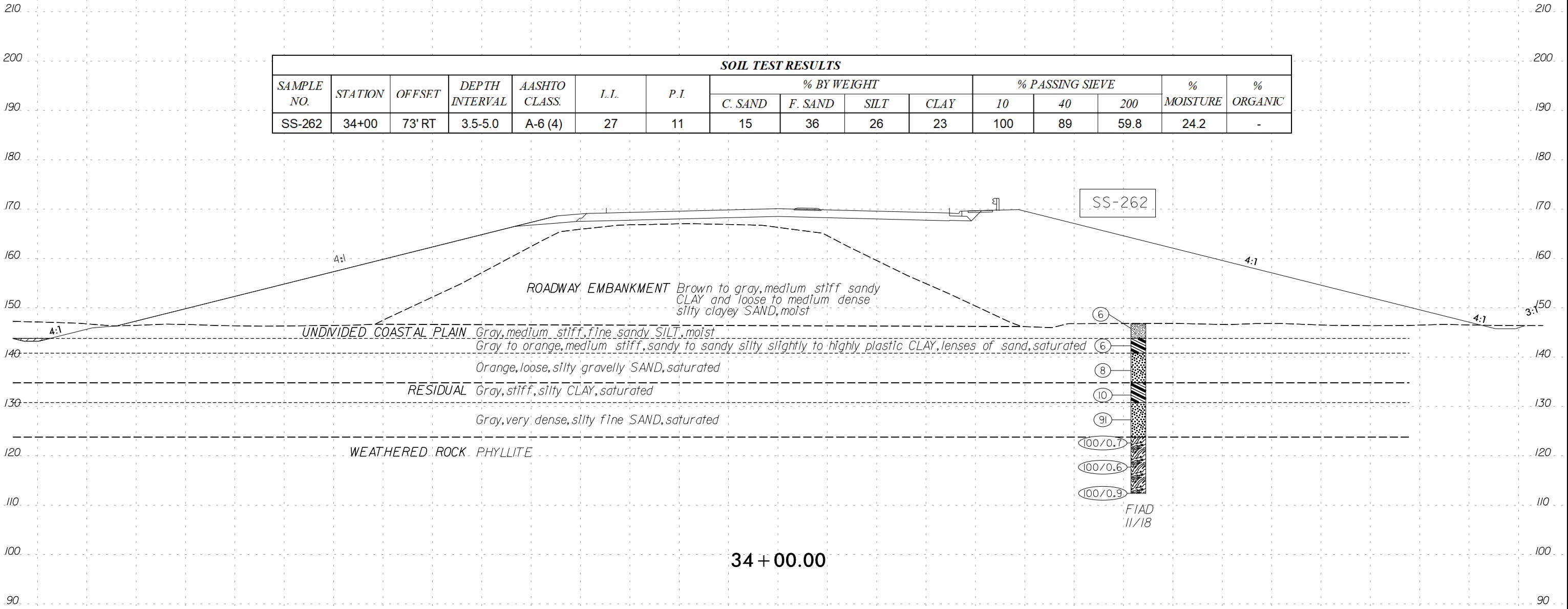
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-11	29+00	44' RT	3.5-5.0	A-6 (8)	36	14	21	13	21	45	99	85	69.2	20.9	-

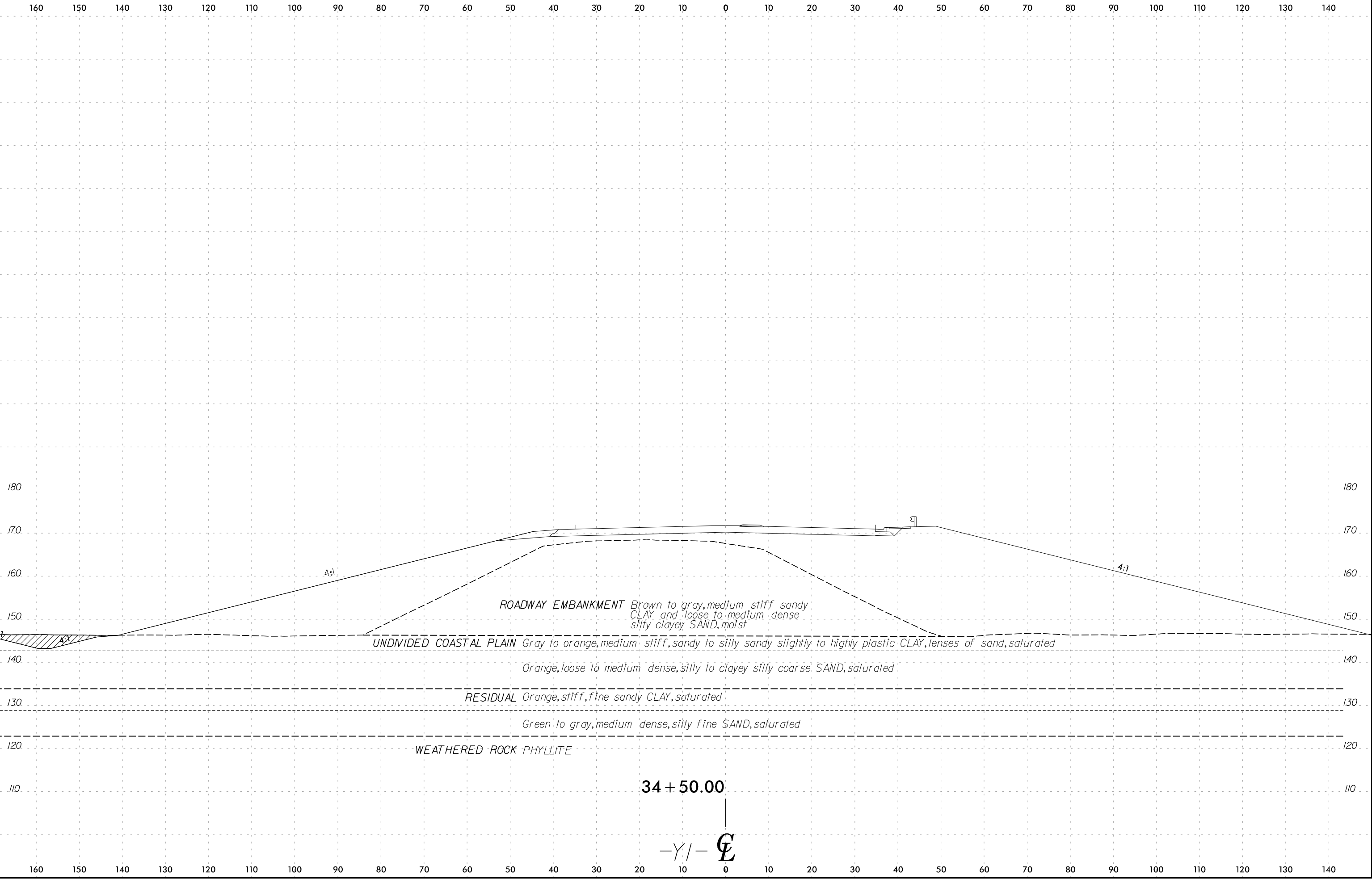
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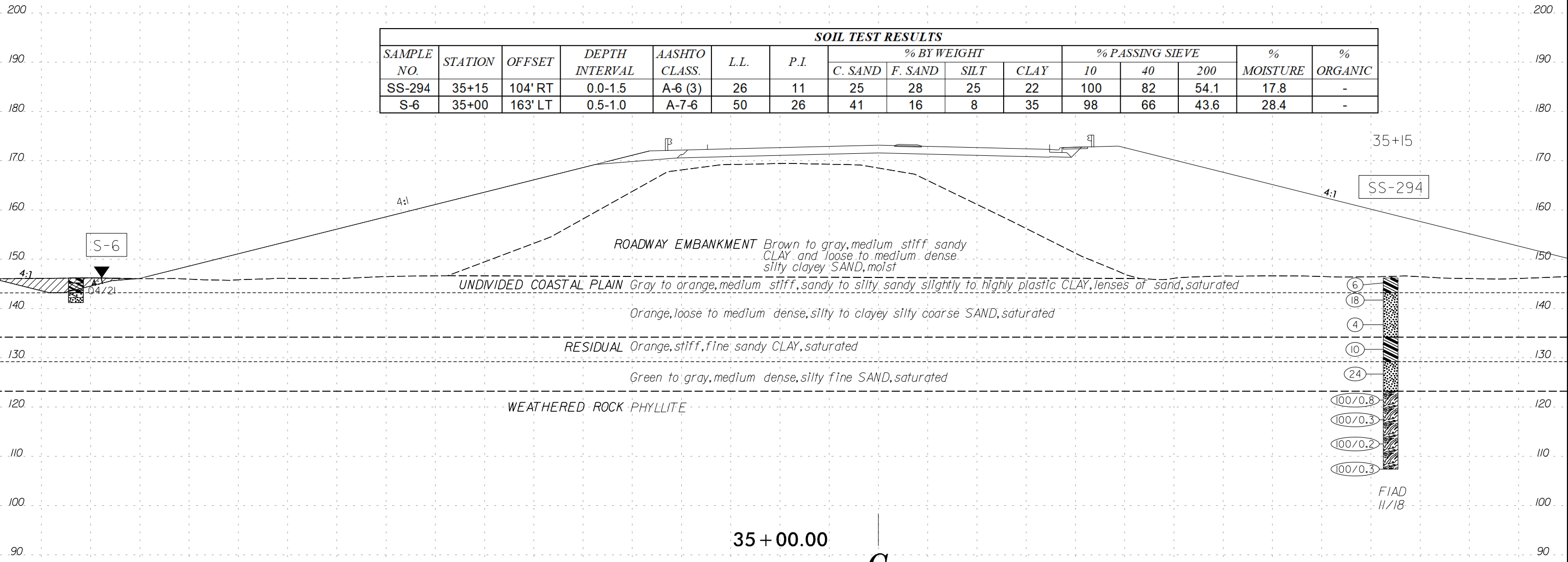
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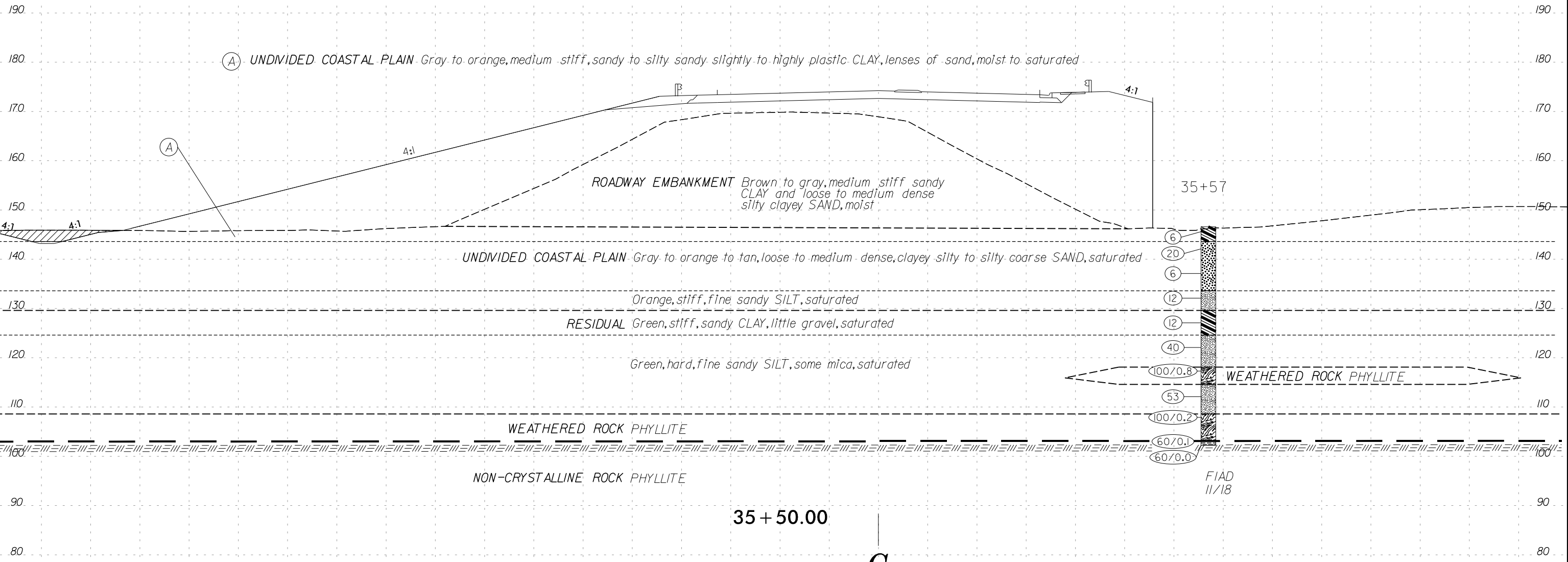
35 + 00.00

-Y/-



170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130



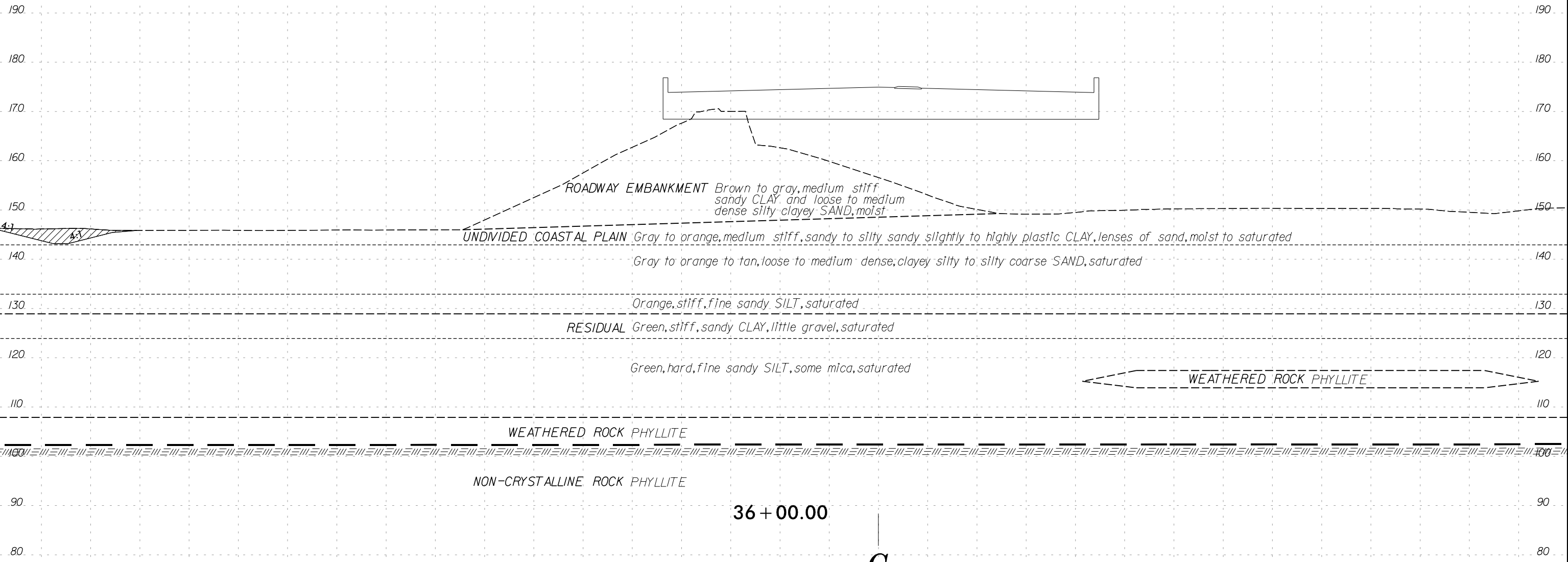
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-Y/-

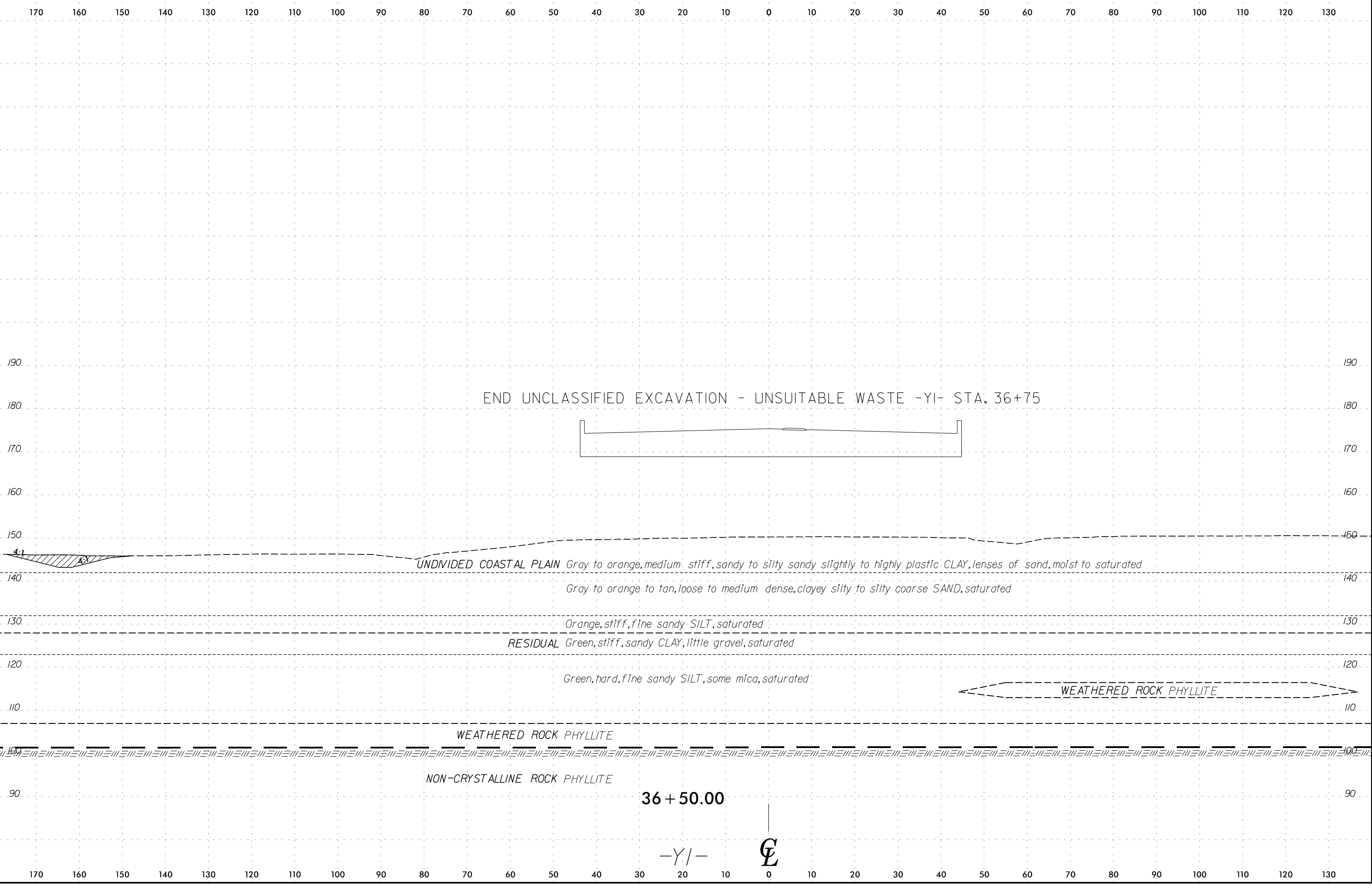
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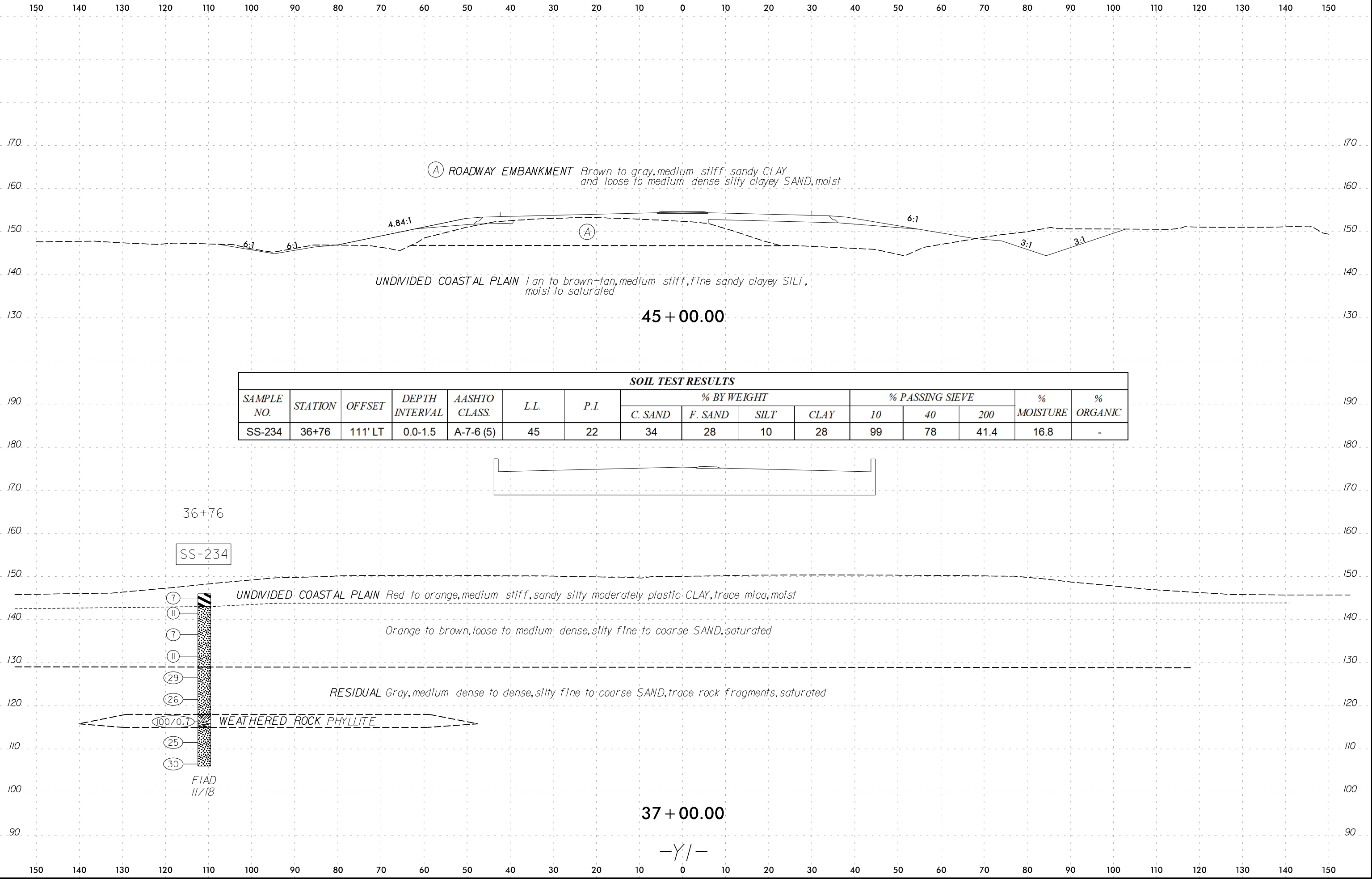
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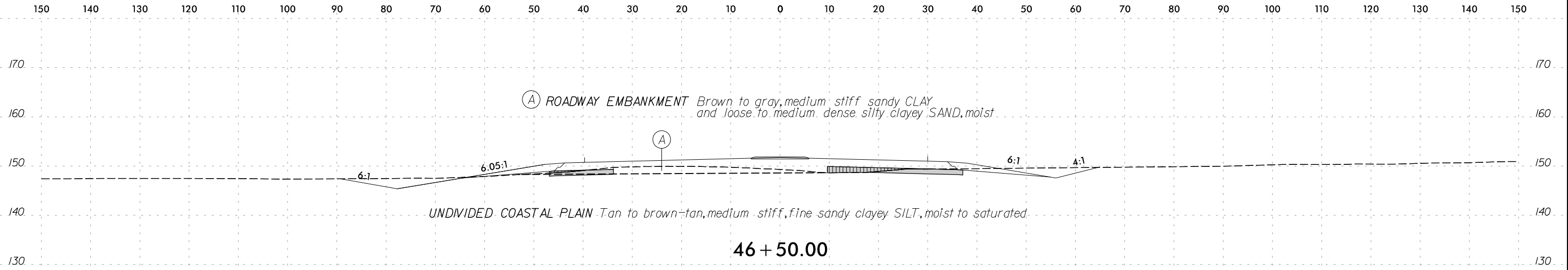


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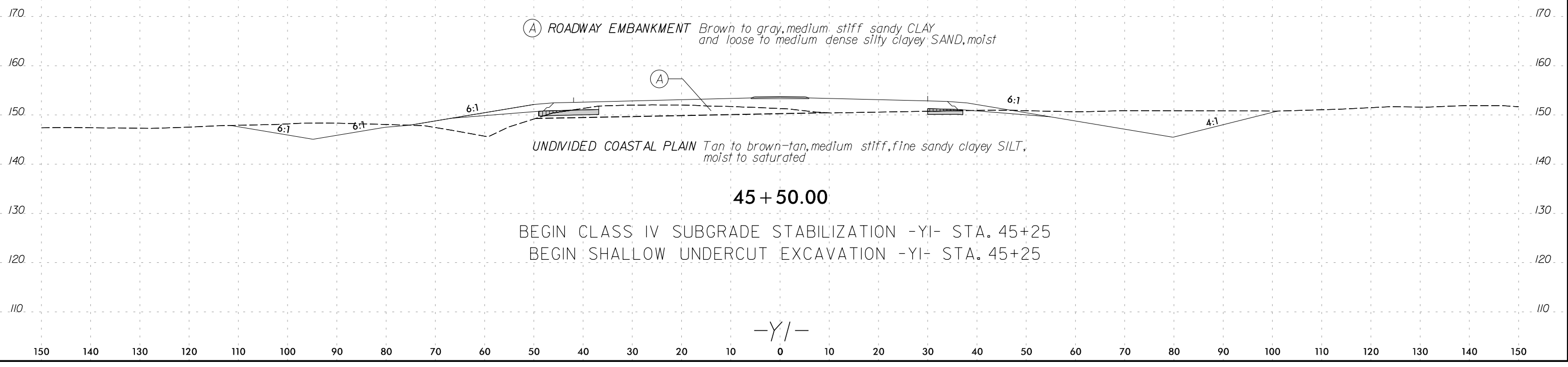
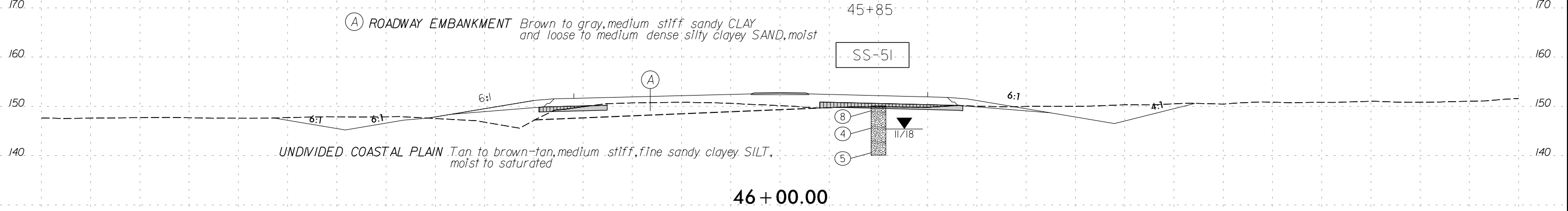




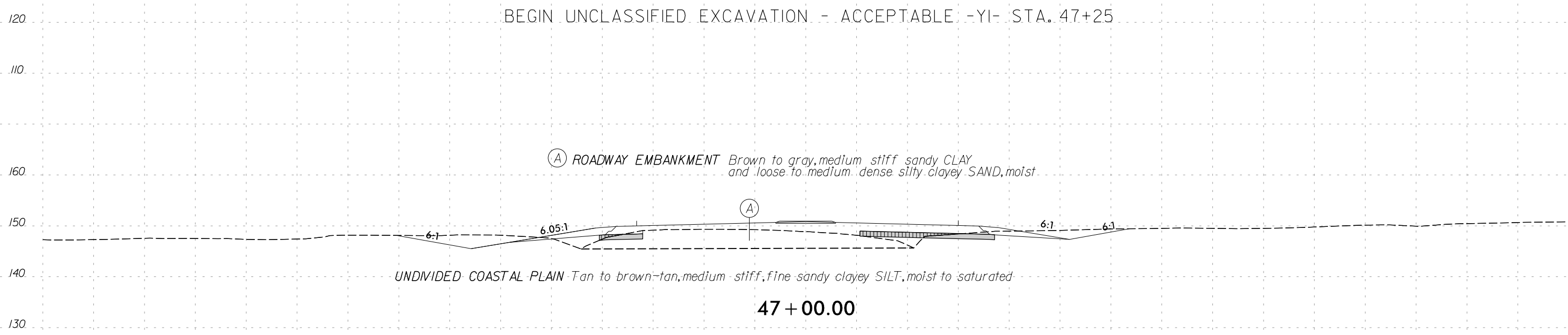
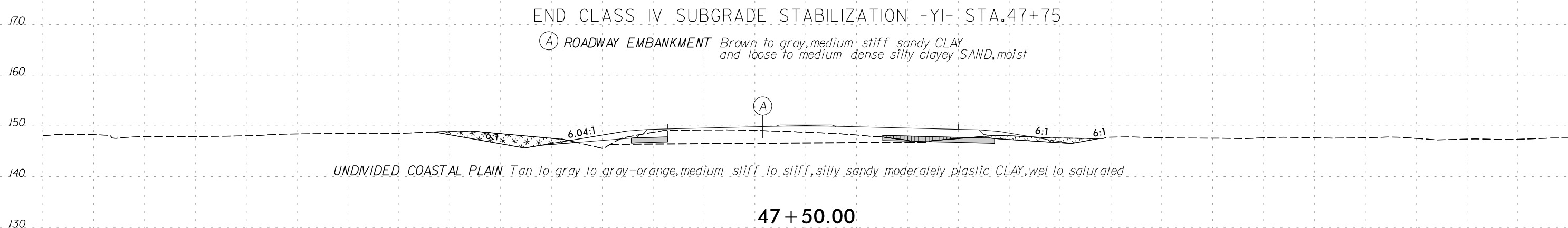
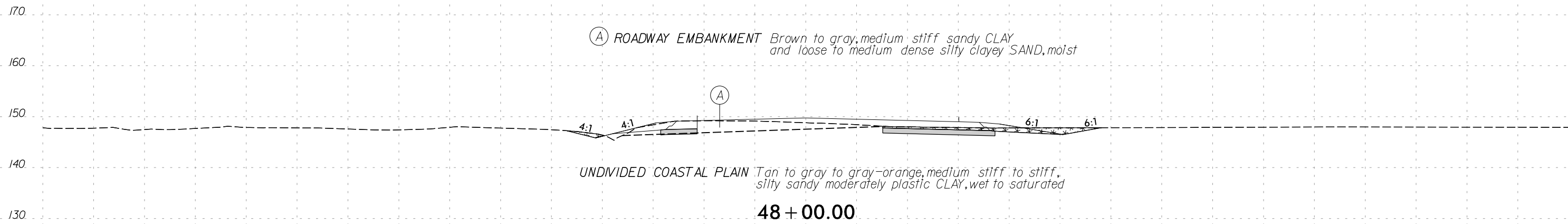
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SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-51	45+85	20' RT	3.5-5.0	A-4 (3)	25	10	19	30	26	25	99	89	55.6	12.2	-



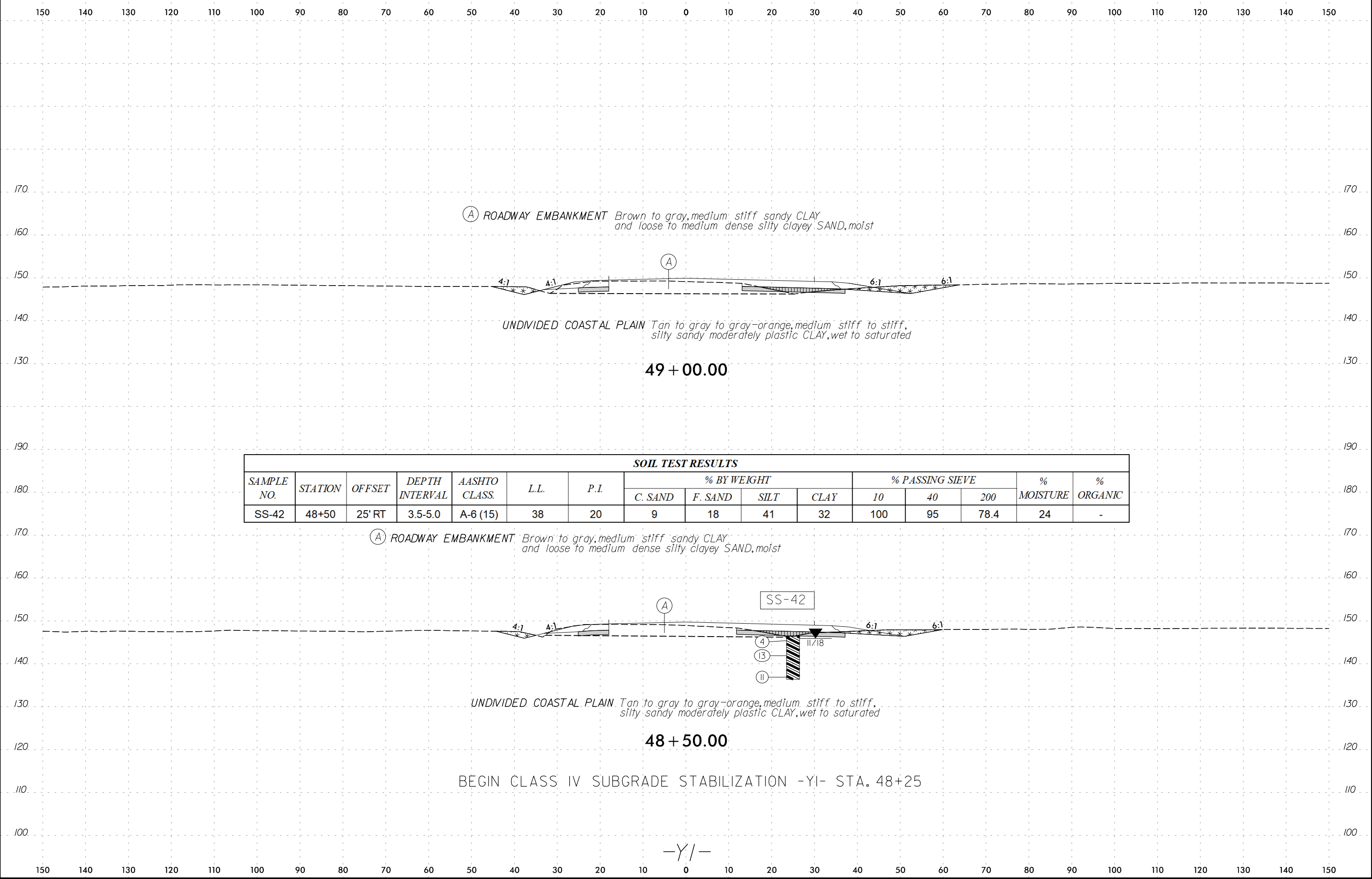
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-YI-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16



(A) ROADWAY EMBANKMENT *Brown to gray, medium stiff sandy CLAY and loose to medium dense silty clayey SAND, moist*

UNDIVIDED COASTAL PLAIN *Tan to gray to gray-orange, medium stiff to stiff, silty sandy moderately plastic CLAY, wet to saturated*

49 + 00.00

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-42	48+50	25' RT	3.5-5.0	A-6 (15)	38	20	9	18	41	32	100	95	78.4	24	-

(A) ROADWAY EMBANKMENT *Brown to gray, medium stiff sandy CLAY and loose to medium dense silty clayey SAND, moist*

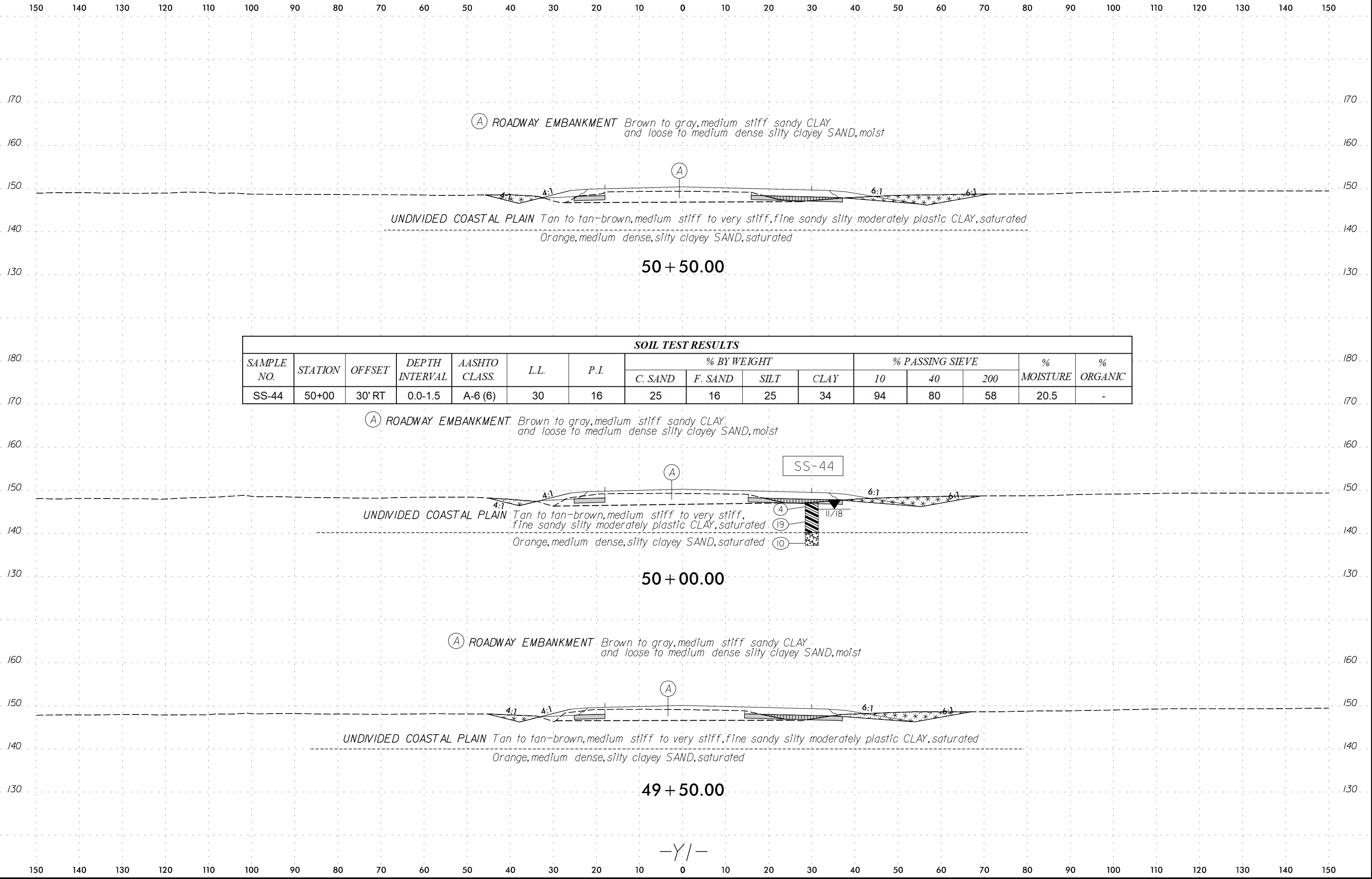
UNDIVIDED COASTAL PLAIN *Tan to gray to gray-orange, medium stiff to stiff, silty sandy moderately plastic CLAY, wet to saturated*

48 + 50.00

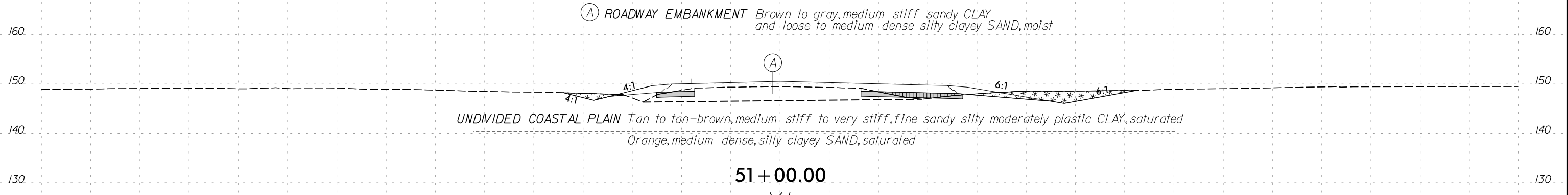
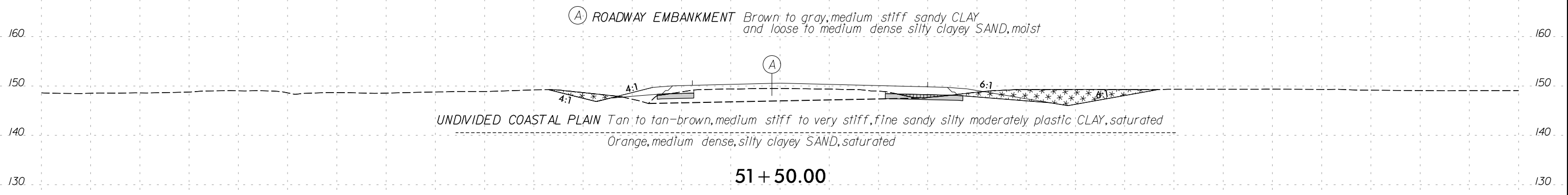
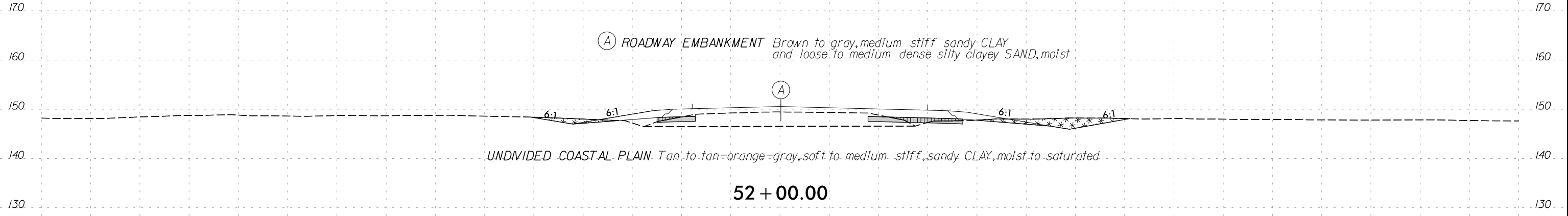
BEGIN CLASS IV SUBGRADE STABILIZATION -YI- STA. 48+25

-YI-

9/29/2021
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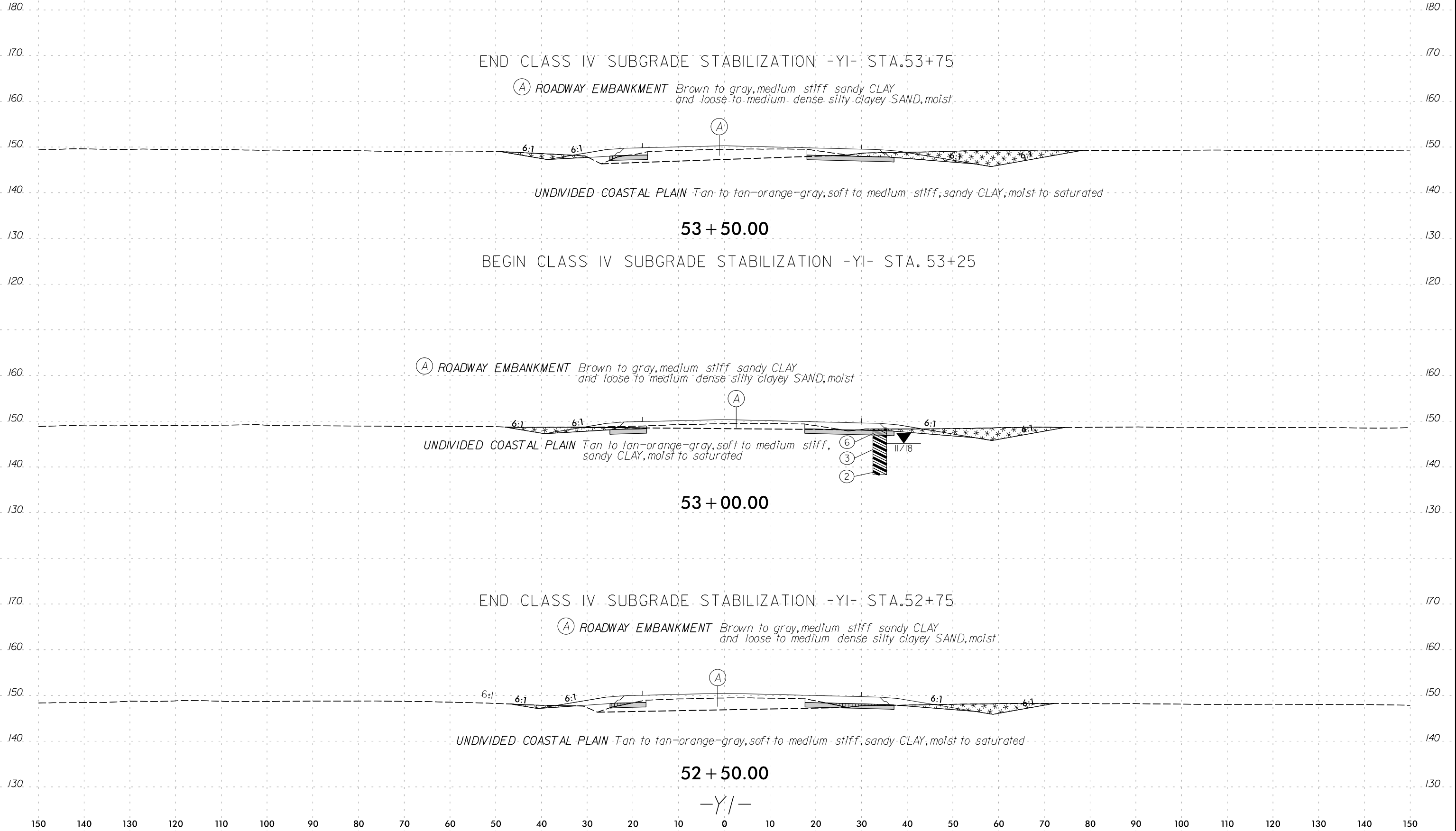


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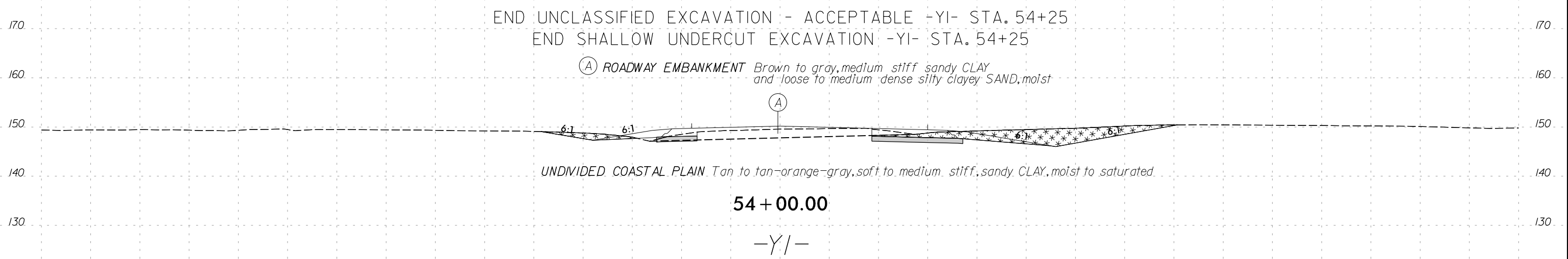
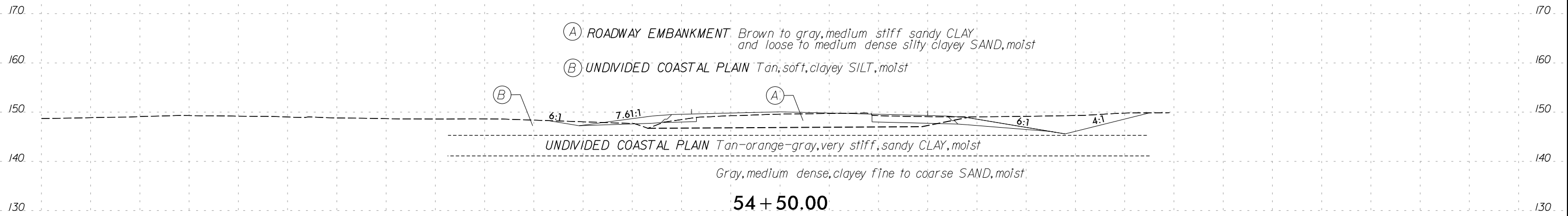


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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



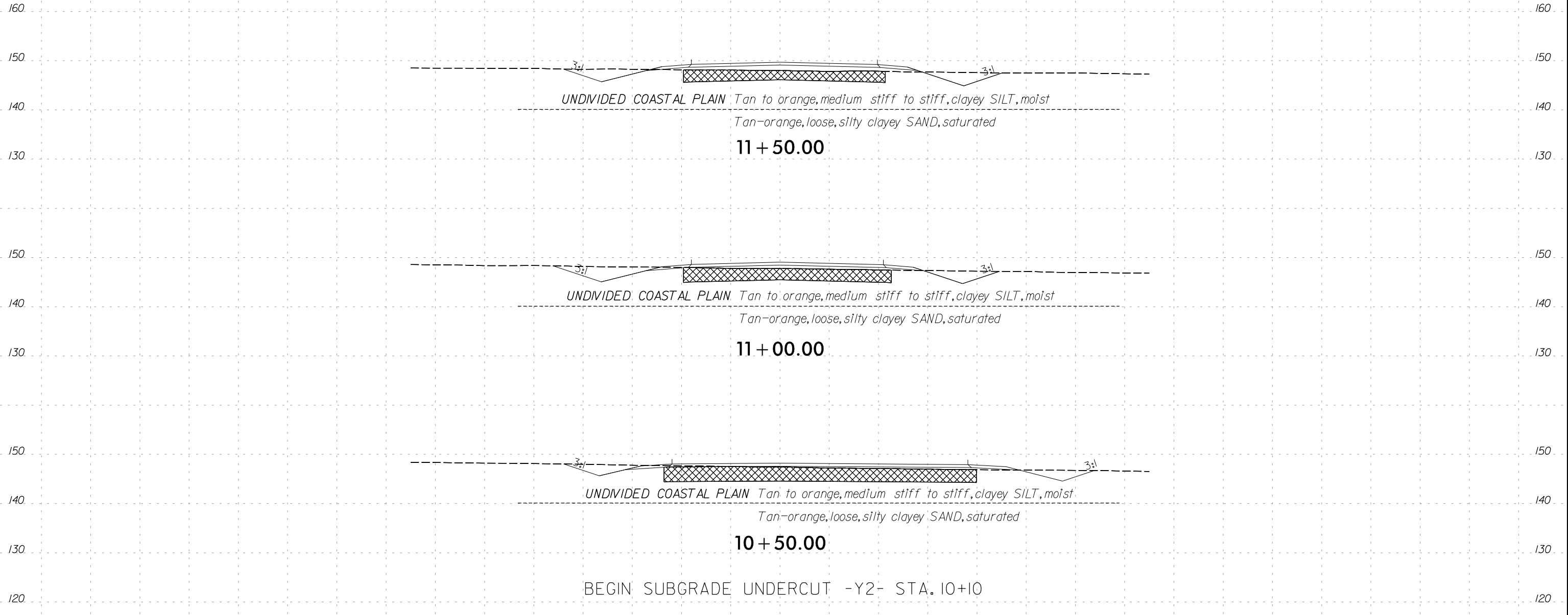
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



UNDIVIDED COASTAL PLAIN Tan to orange, medium stiff to stiff, clayey SILT, moist
Tan-orange, loose, silty clayey SAND, saturated

11 + 50.00

UNDIVIDED COASTAL PLAIN Tan to orange, medium stiff to stiff, clayey SILT, moist
Tan-orange, loose, silty clayey SAND, saturated

11 + 00.00

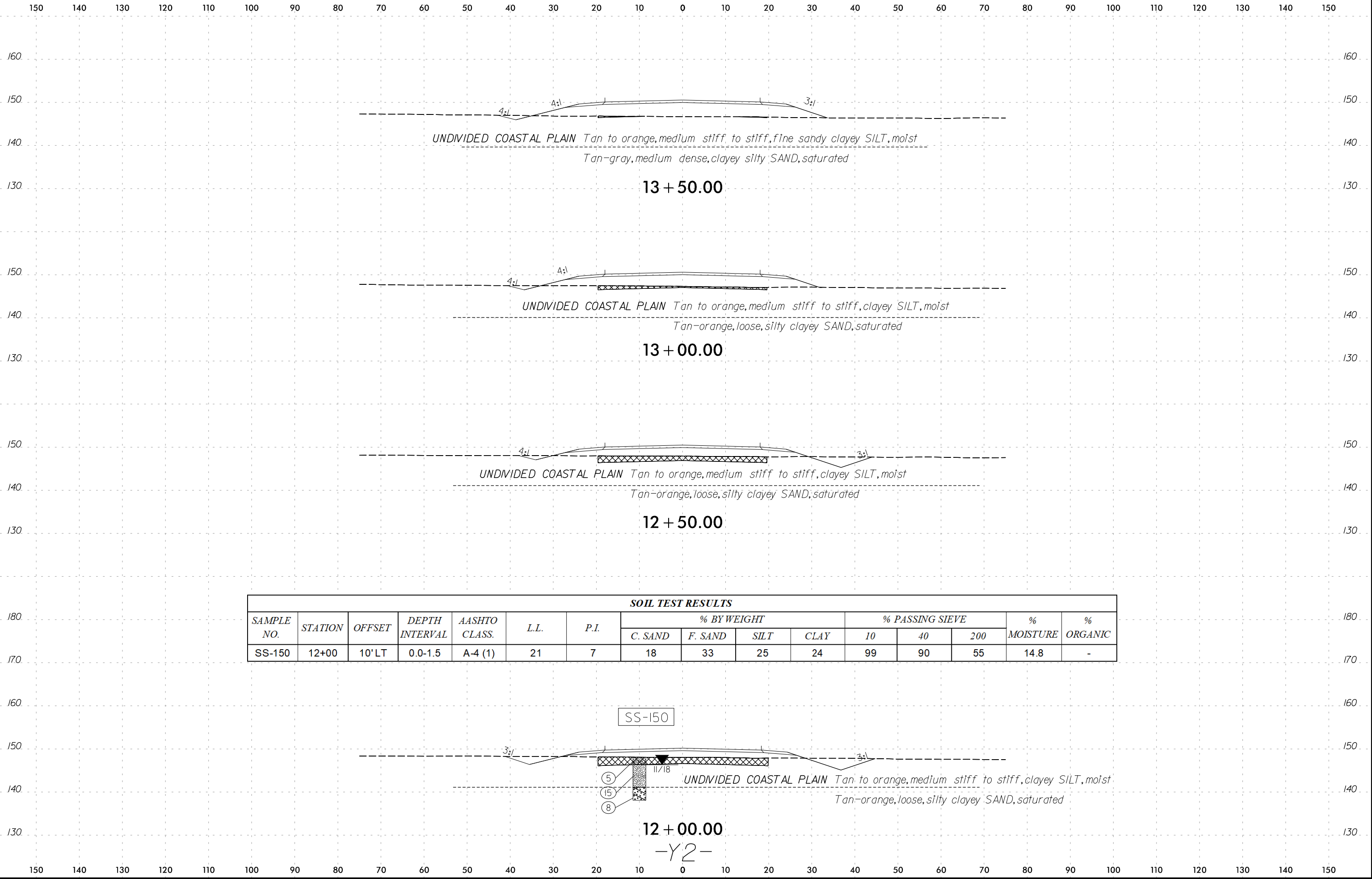
UNDIVIDED COASTAL PLAIN Tan to orange, medium stiff to stiff, clayey SILT, moist
Tan-orange, loose, silty clayey SAND, saturated

10 + 50.00

BEGIN SUBGRADE UNDERCUT -Y2- STA. 10+10

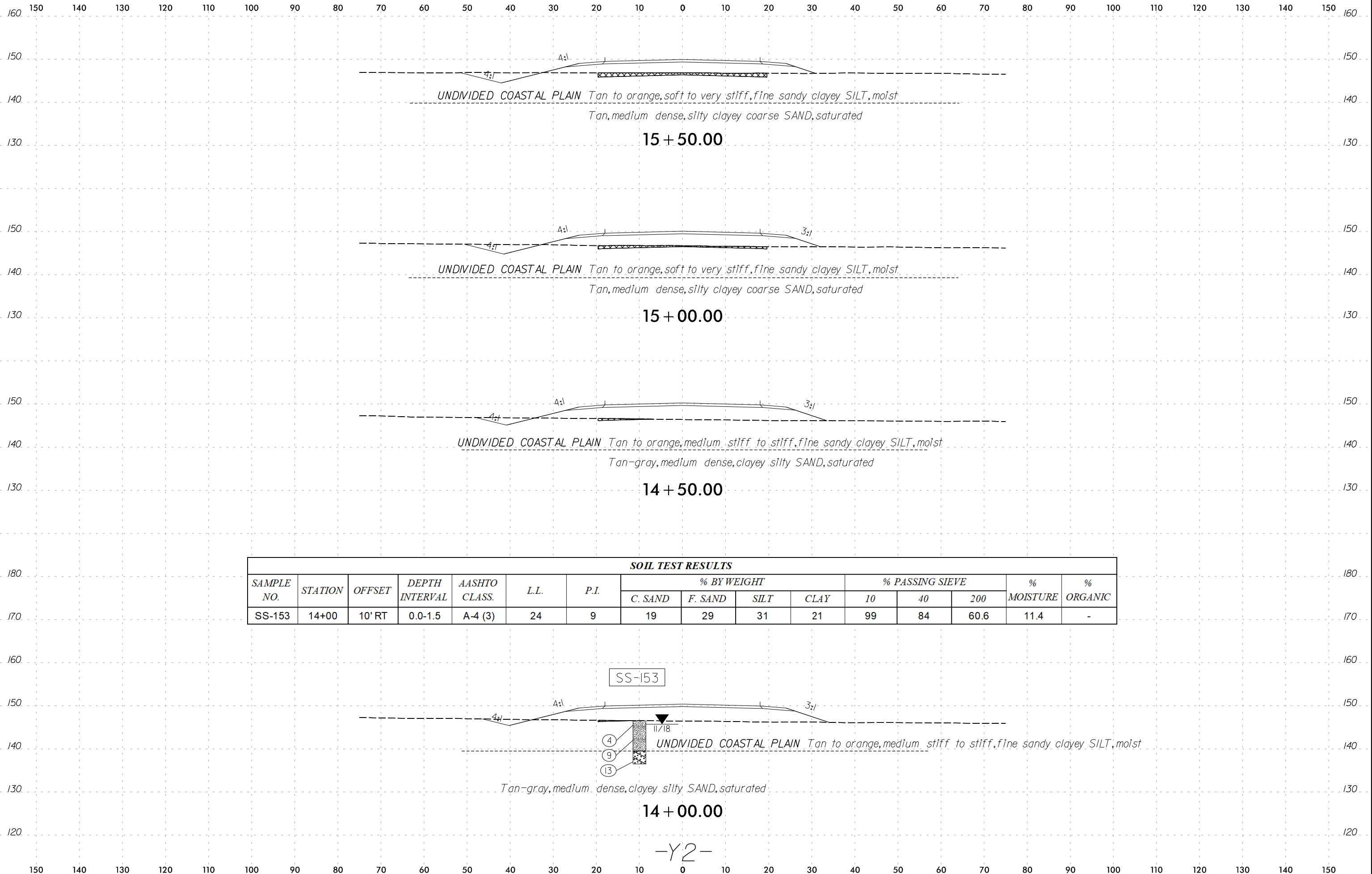
-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

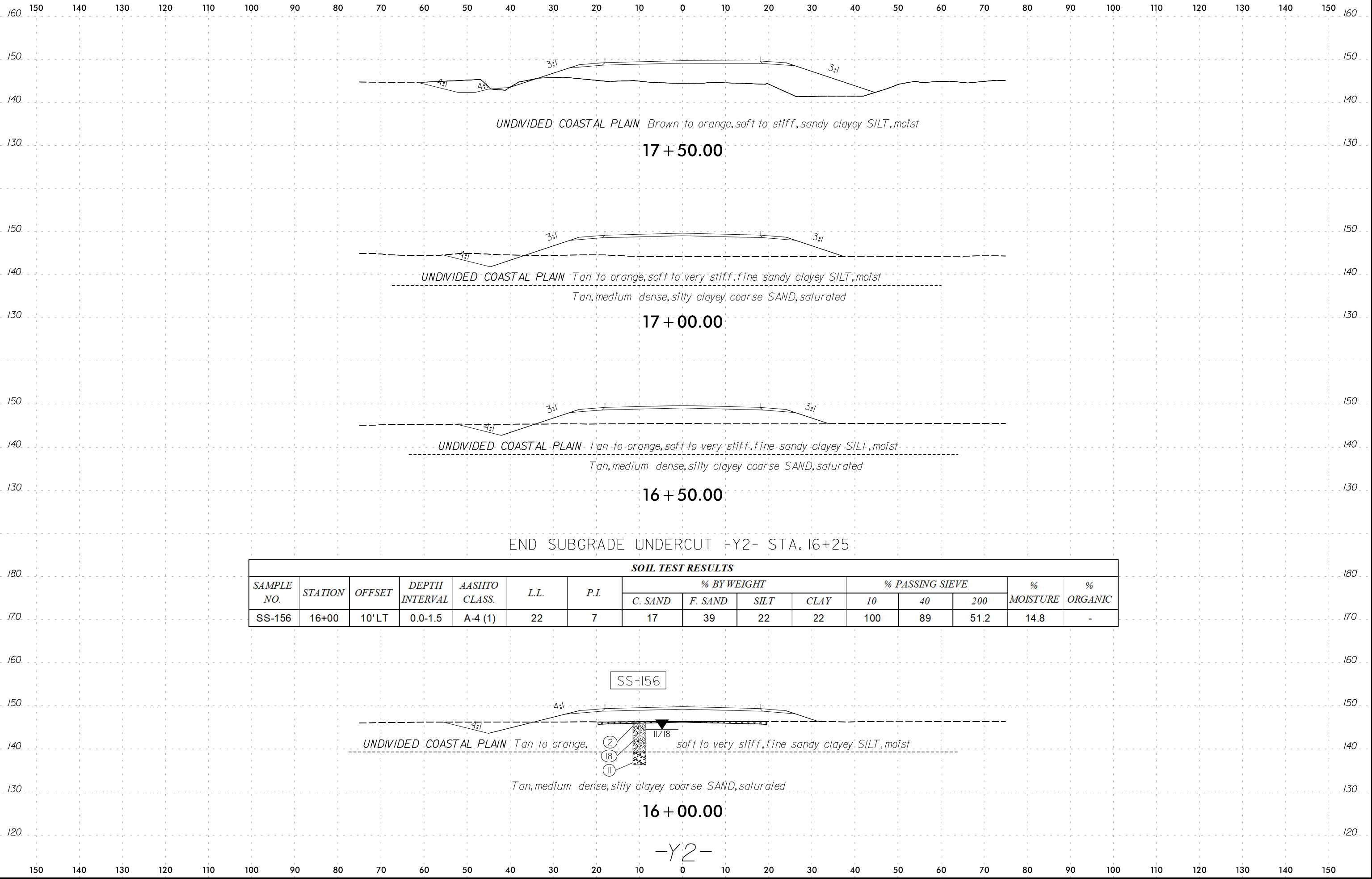


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-150	12+00	10' LT	0.0-1.5	A-4 (1)	21	7	18	33	25	24	99	90	55	14.8	-

12 + 00.00
-Y2-



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-153	14+00	10' RT	0.0-1.5	A-4 (3)	24	9	19	29	31	21	99	84	60.6	11.4	-

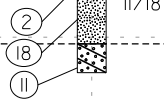


END SUBGRADE UNDERCUT -Y2- STA. 16+25

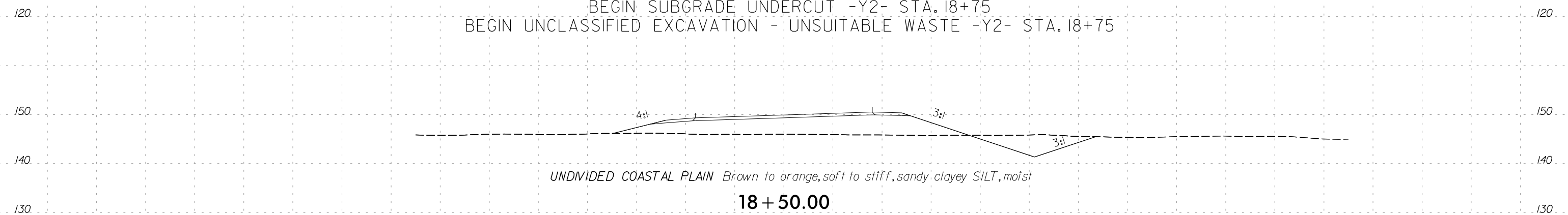
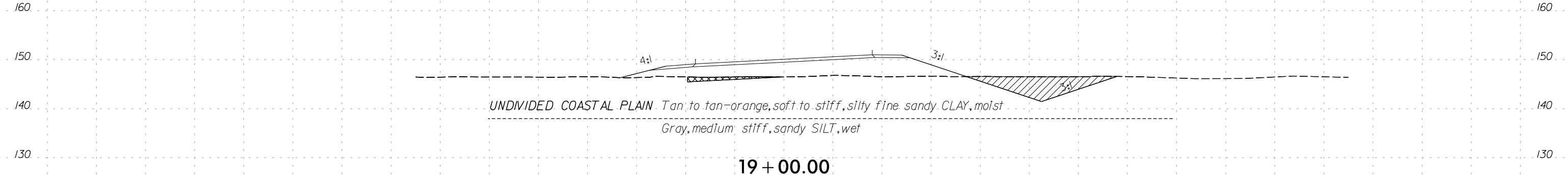
SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-156	16+00	10'LT	0.0-1.5	A-4 (1)	22	7	17	39	22	22	100	89	51.2	14.8	-

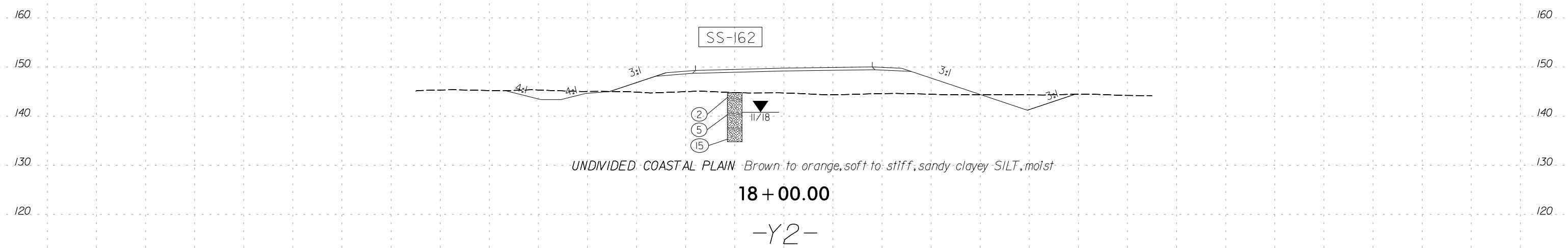
SS-156



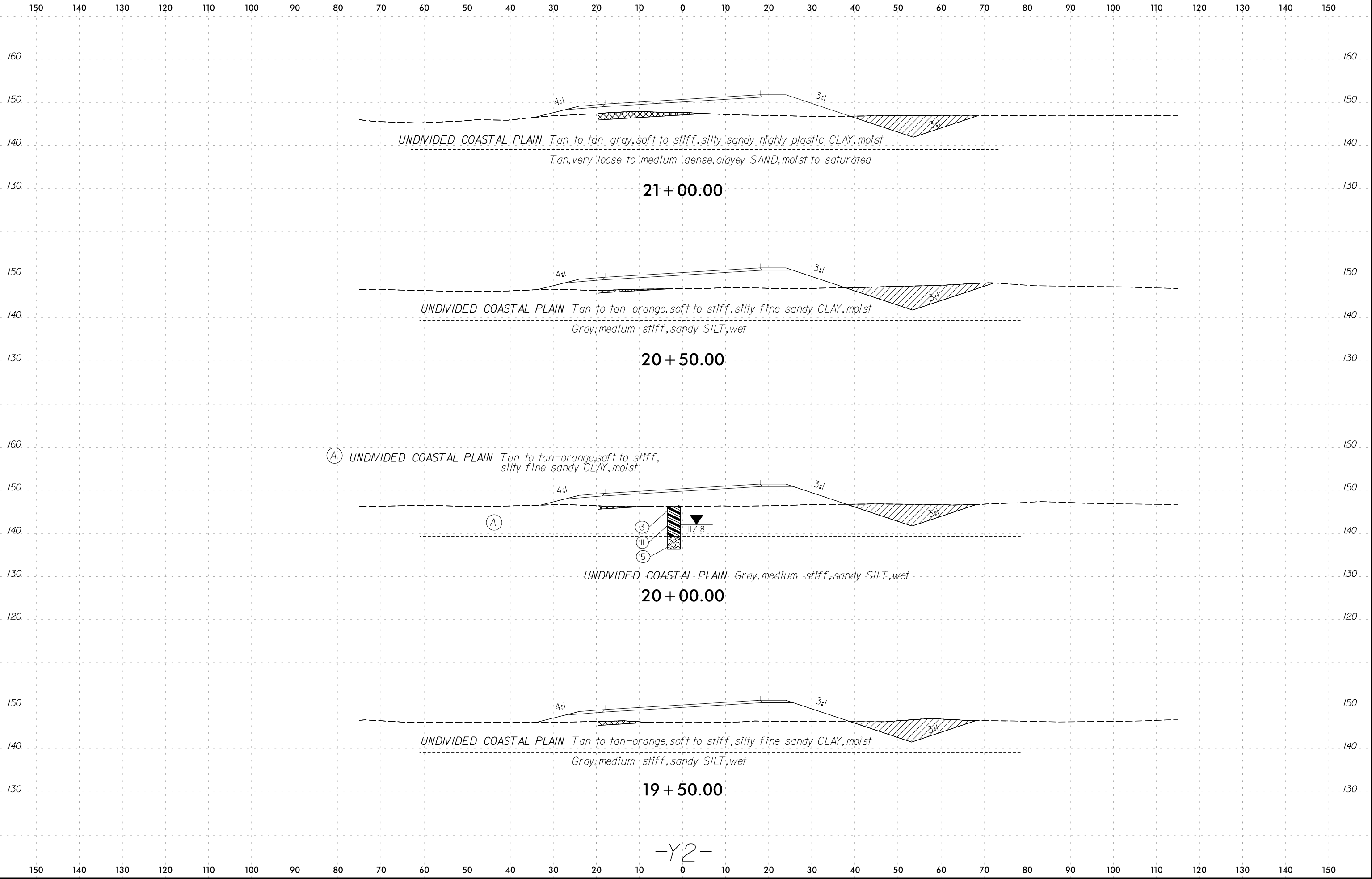
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

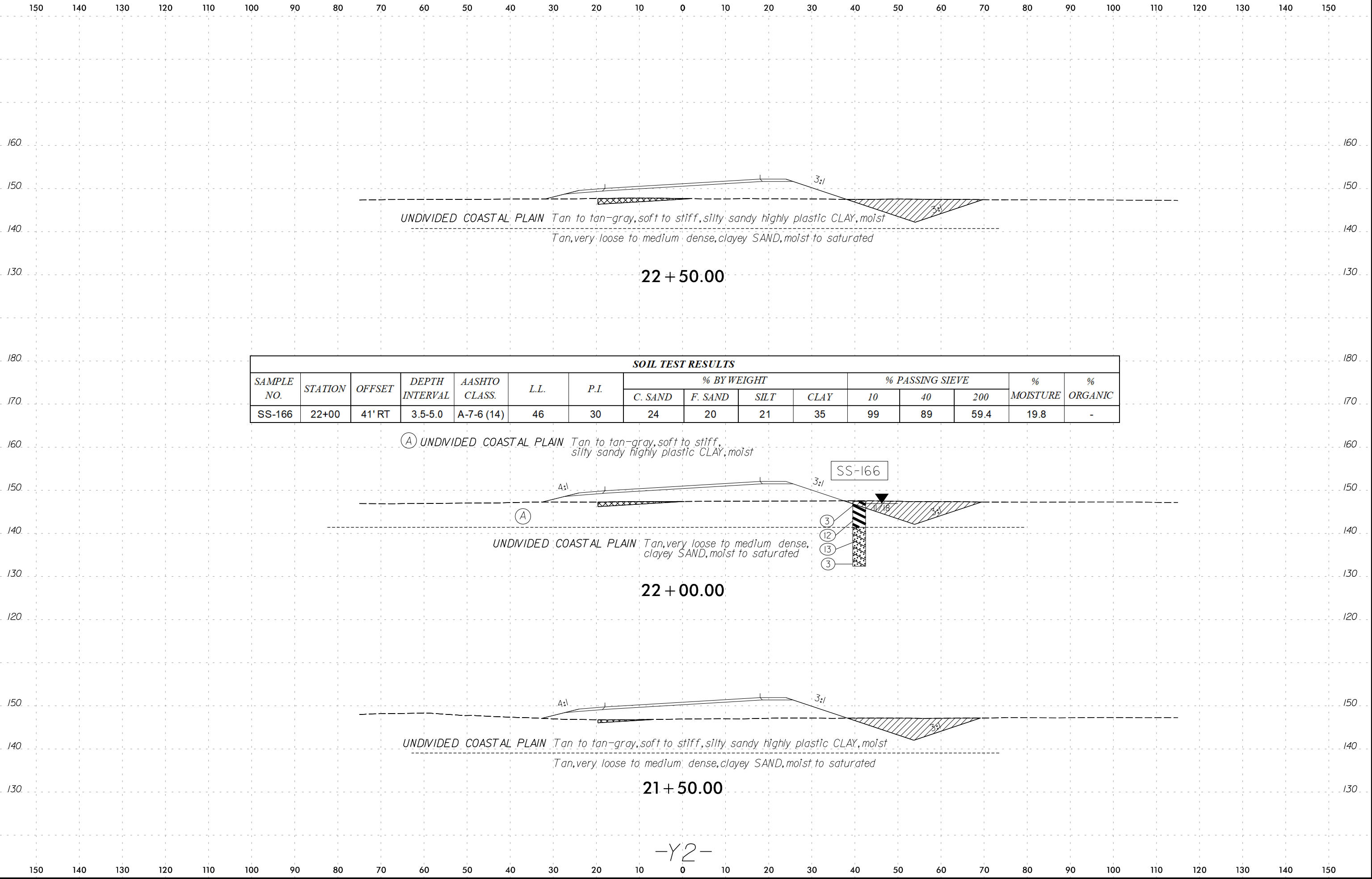


SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-162	18+00	10' LT	0.0-1.5	A-4 (0)	17	2	34	25	29	12	100	76	46.7	16.6	-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

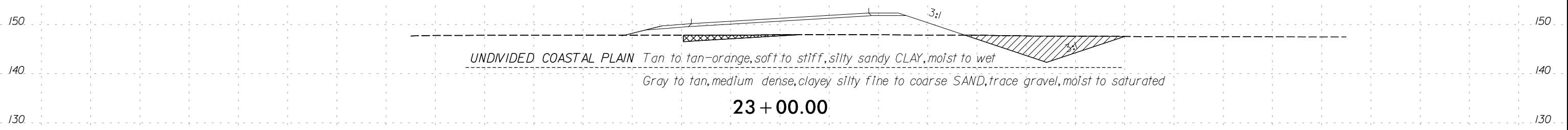
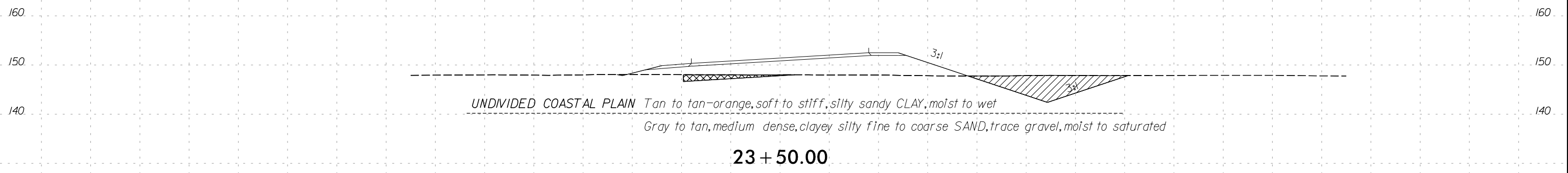
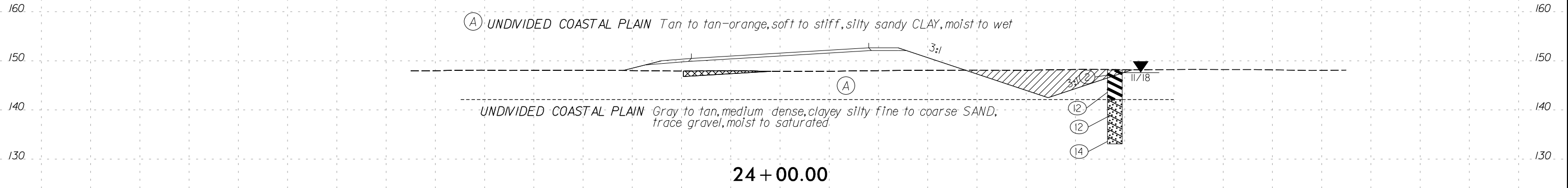
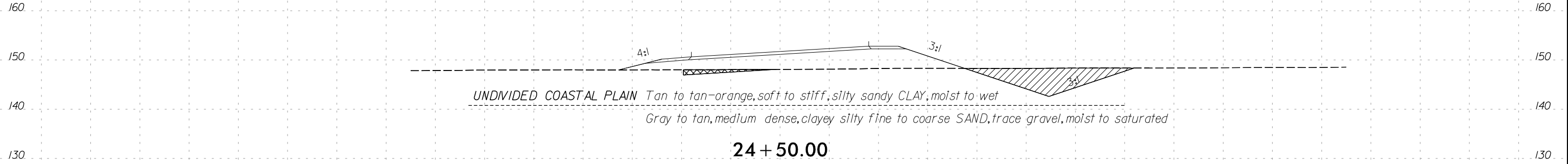




SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-166	22+00	41' RT	3.5-5.0	A-7-6 (14)	46	30	24	20	21	35	99	89	59.4	19.8	-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y2-

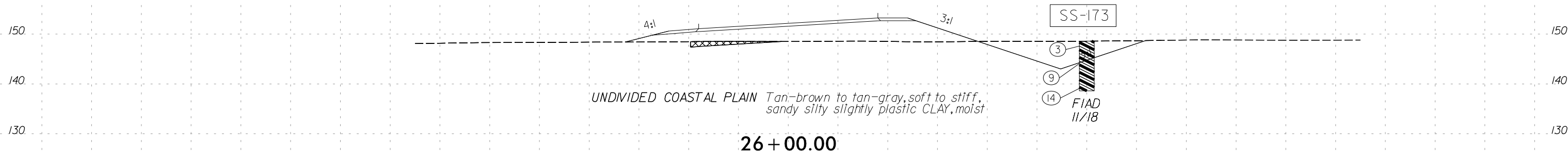
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

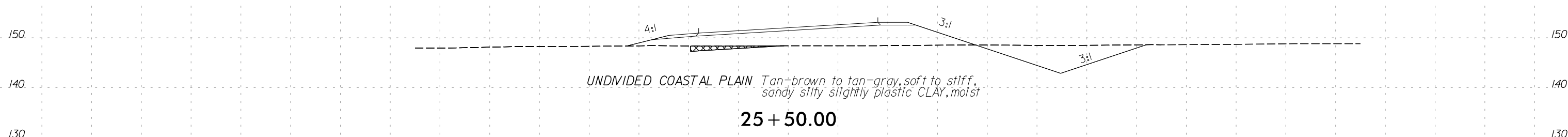
190 180 170 160 150 140 130

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-173	26+00	60' RT	0.0-1.5	A-6 (4)	27	13	25	20	27	28	99	87	58.3	23.3	-

160 150 140 130

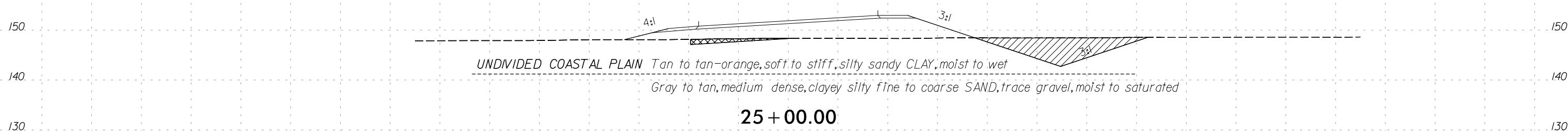


160 150 140 130



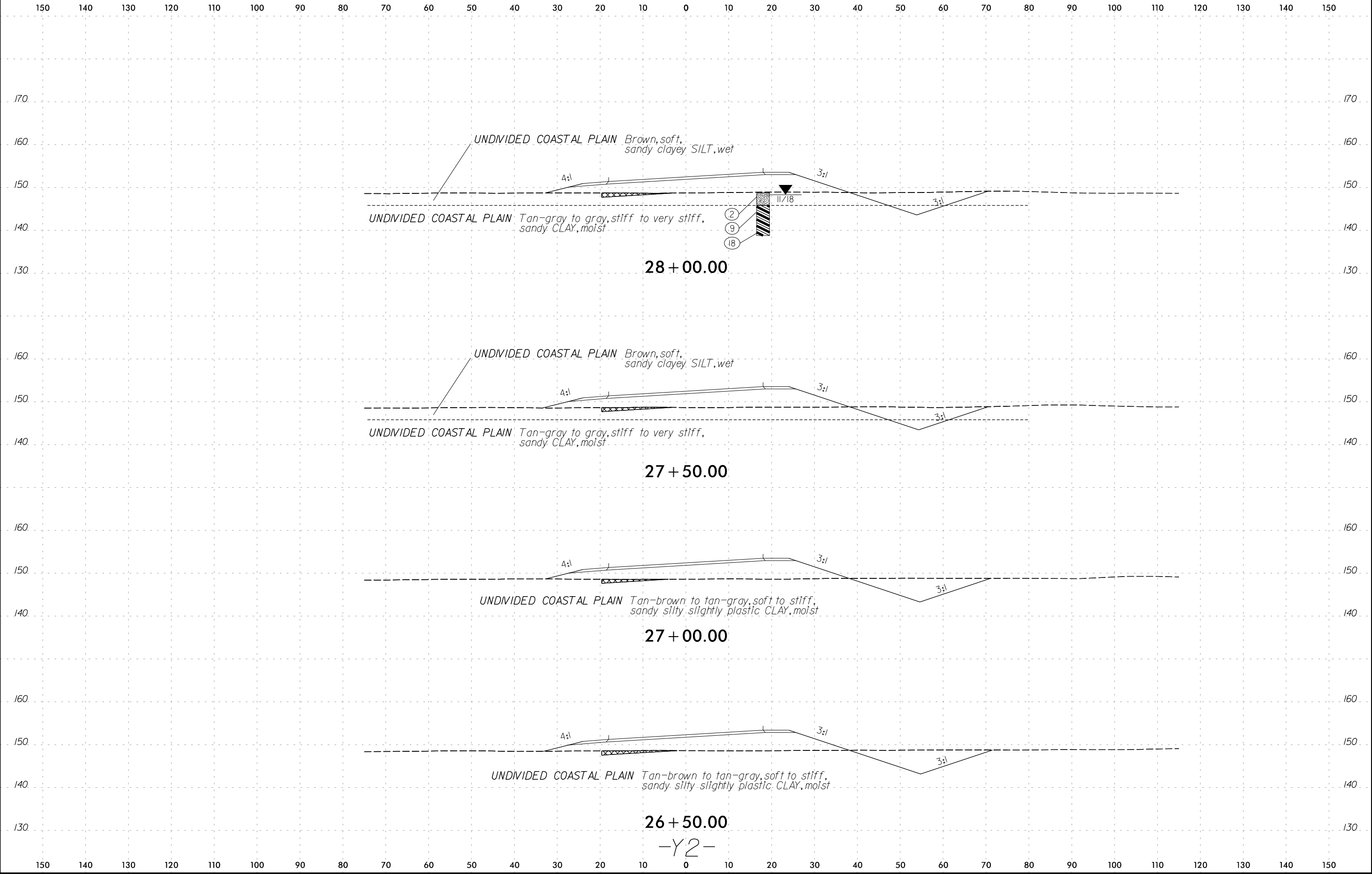
160 150 140 130

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -Y2- STA. 25+25



130 140 150 160

-Y2-



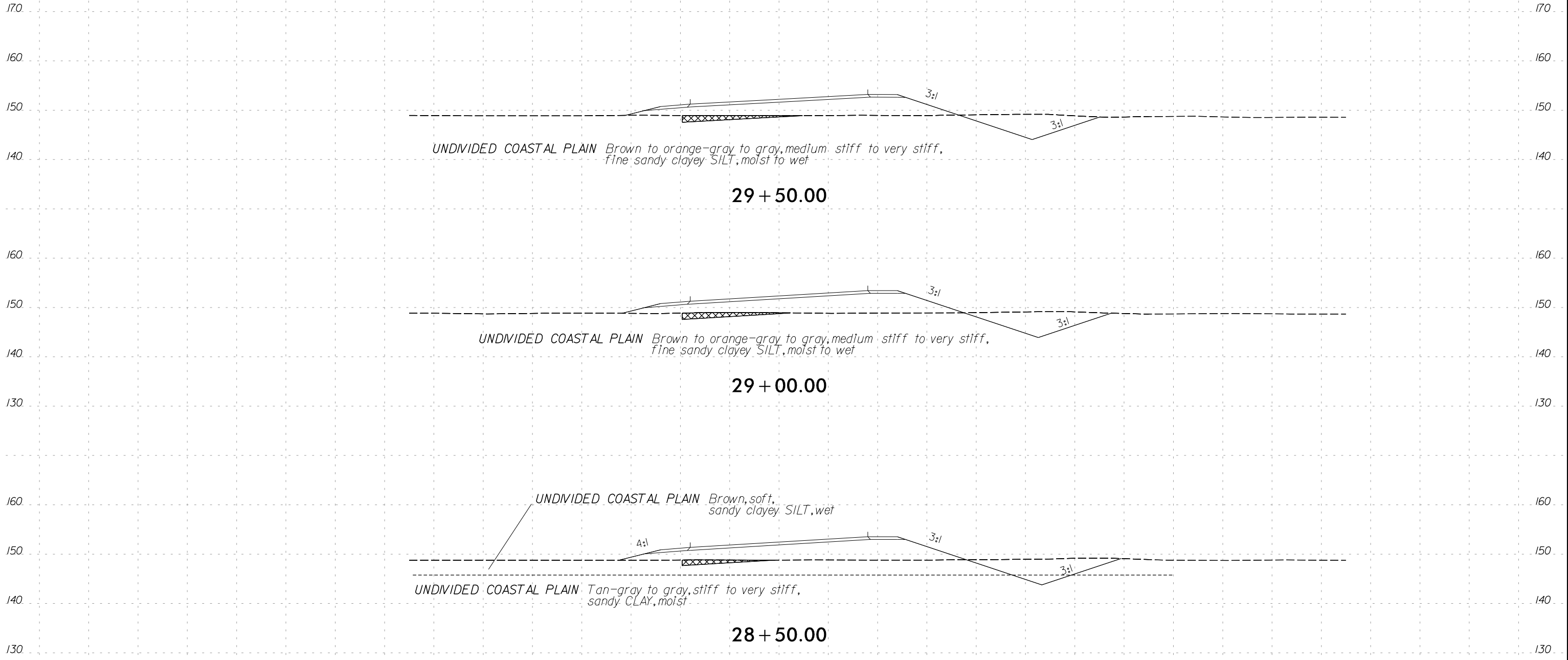
26 + 50.00
-Y2-

27 + 00.00

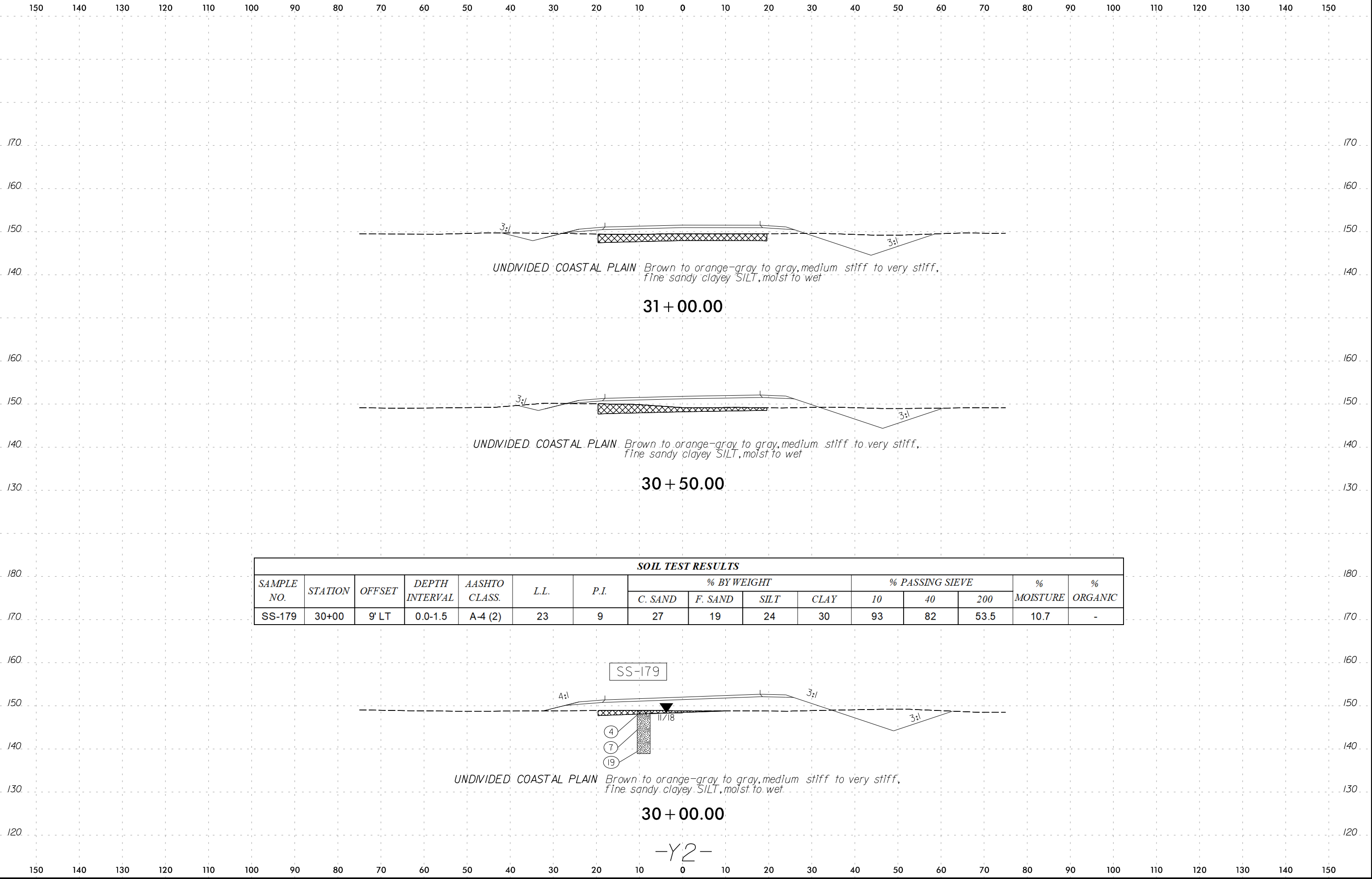
27 + 50.00

28 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

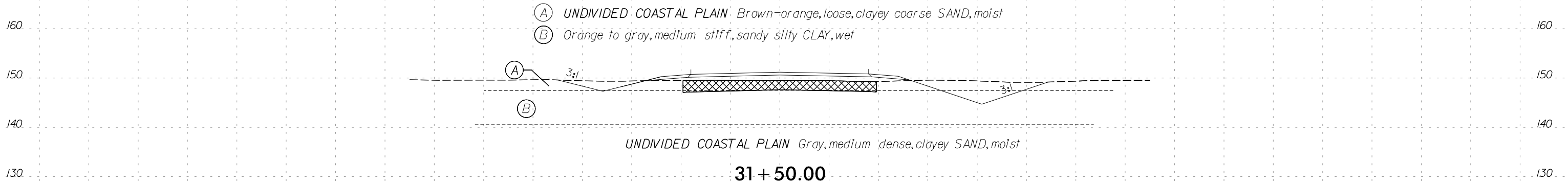
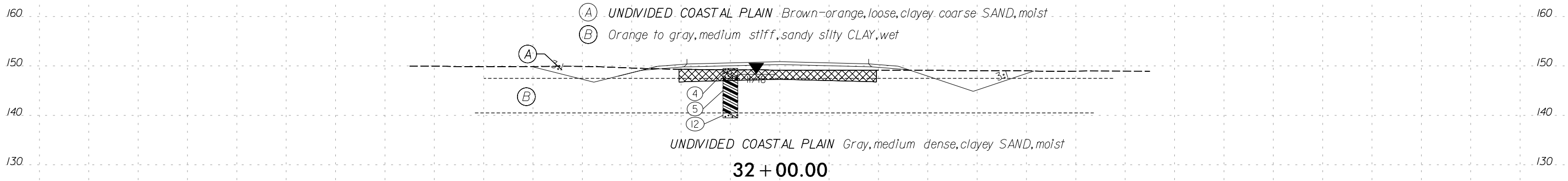
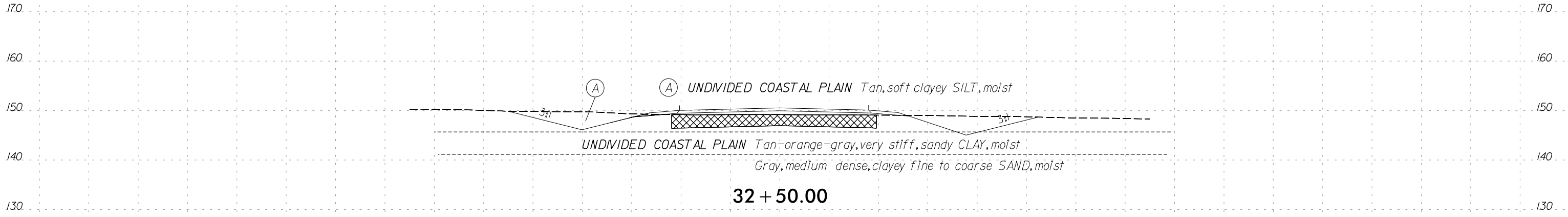


-Y2-



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-179	30+00	9' LT	0.0-1.5	A-4 (2)	23	9	27	19	24	30	93	82	53.5	10.7	-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

190

190

END SUBGRADE UNDERCUT -Y2- STA. 33+25

180

180

SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-185	33+00	10' LT	0.0-1.5	A-4 (1)	20	8	29	23	24	24	92	79	48.9	16.2	-

160

160

150

150

140

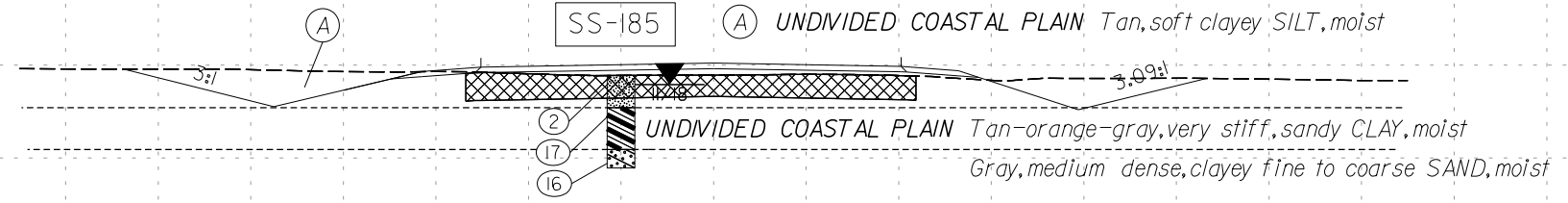
140

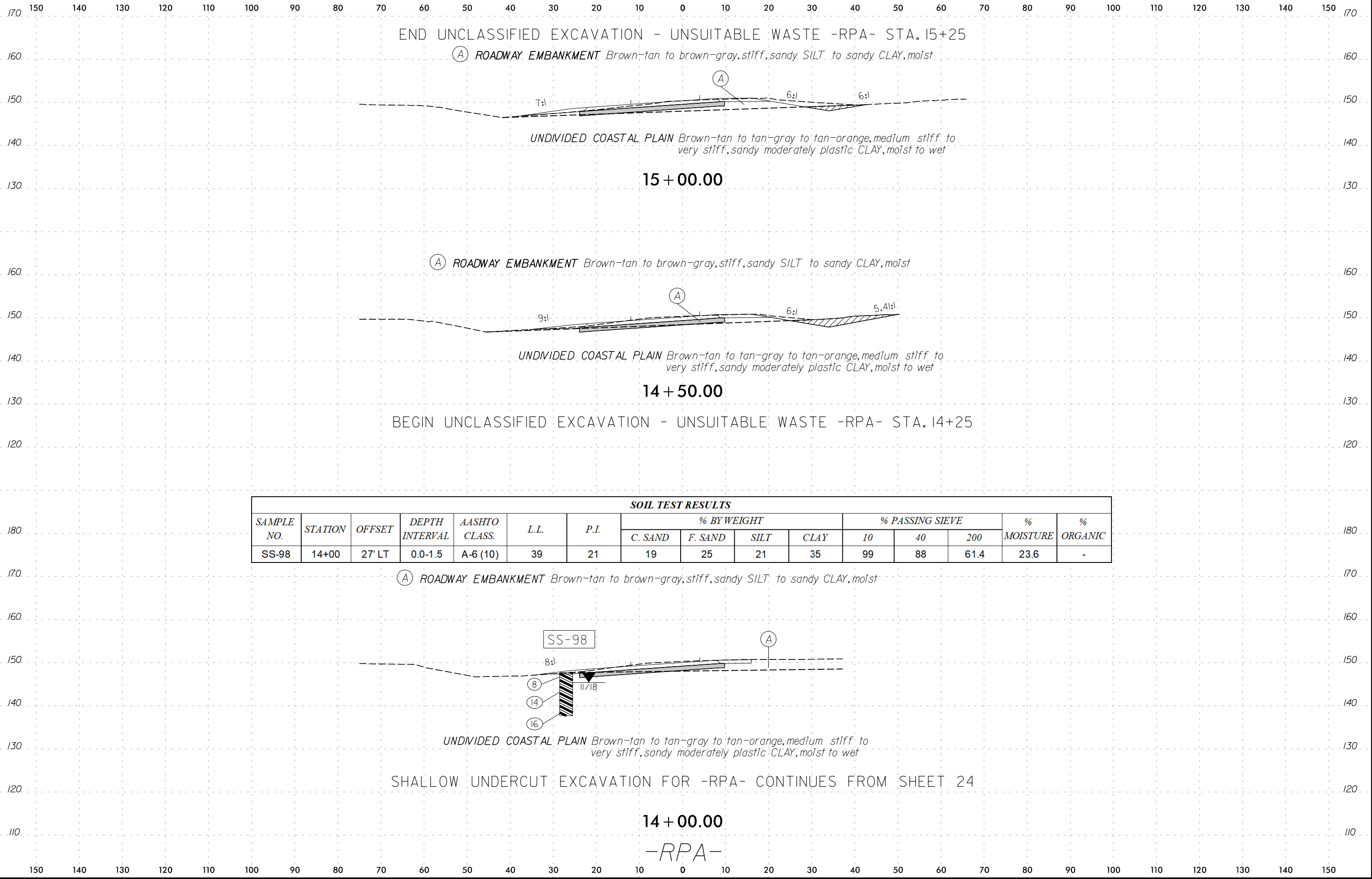
130

130

33 + 00.00

-Y2-





END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -RPA- STA. 15+25

(A) ROADWAY EMBANKMENT *Brown-tan to brown-gray, stiff, sandy SILT to sandy CLAY, moist*

UNDIVIDED COASTAL PLAIN *Brown-tan to tan-gray to tan-orange, medium stiff to very stiff, sandy moderately plastic CLAY, moist to wet*

15 + 00.00

(A) ROADWAY EMBANKMENT *Brown-tan to brown-gray, stiff, sandy SILT to sandy CLAY, moist*

UNDIVIDED COASTAL PLAIN *Brown-tan to tan-gray to tan-orange, medium stiff to very stiff, sandy moderately plastic CLAY, moist to wet*

14 + 50.00

BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE -RPA- STA. 14+25

SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-98	14+00	27' LT	0.0-1.5	A-6 (10)	39	21	19	25	21	35	99	88	61.4	23.6	-

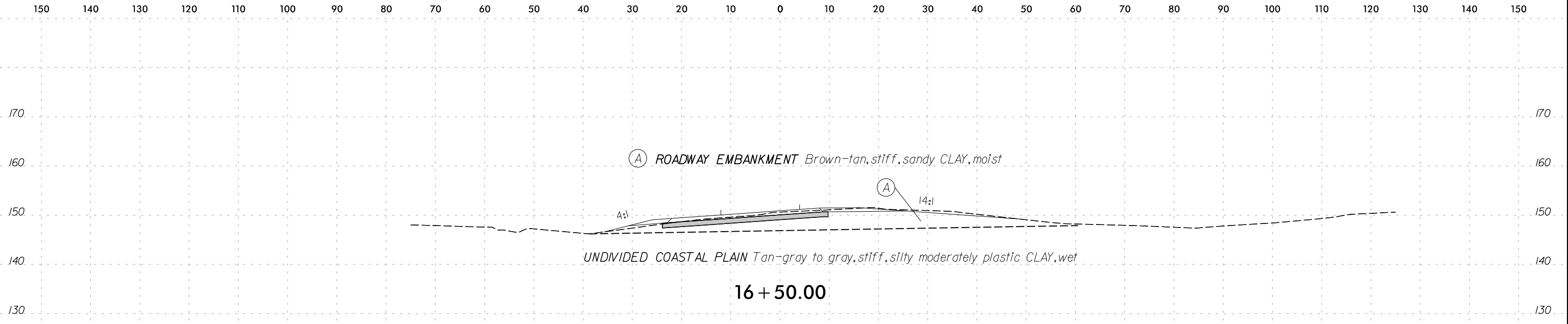
(A) ROADWAY EMBANKMENT *Brown-tan to brown-gray, stiff, sandy SILT to sandy CLAY, moist*

UNDIVIDED COASTAL PLAIN *Brown-tan to tan-gray to tan-orange, medium stiff to very stiff, sandy moderately plastic CLAY, moist to wet*

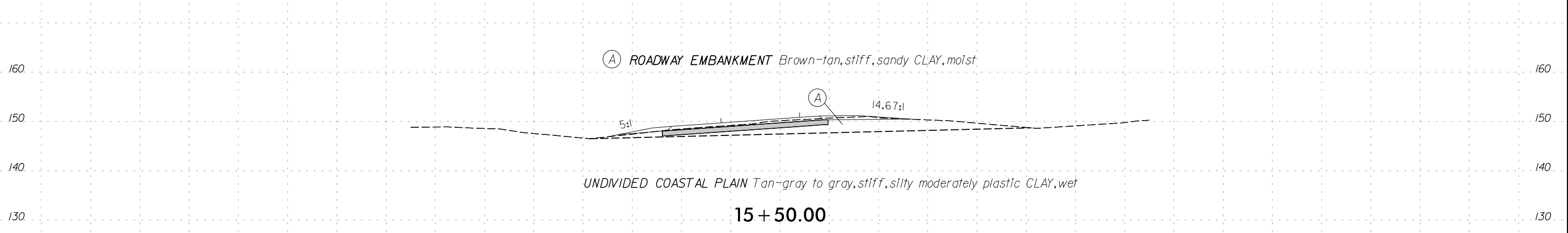
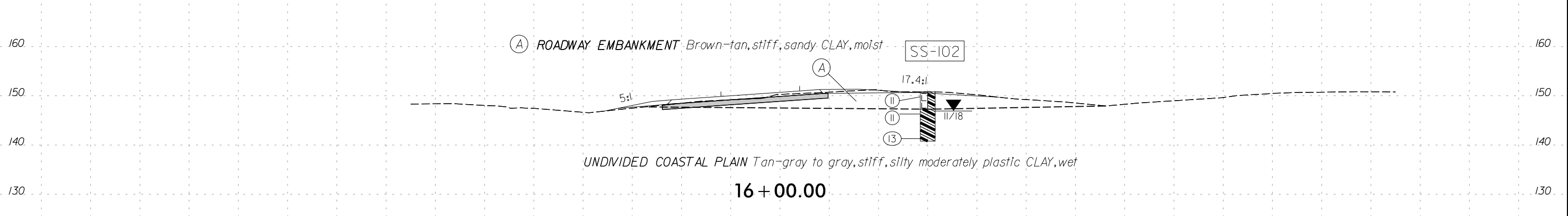
SHALLOW UNDERCUT EXCAVATION FOR -RPA- CONTINUES FROM SHEET 24

14 + 00.00

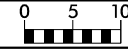
-RPA-



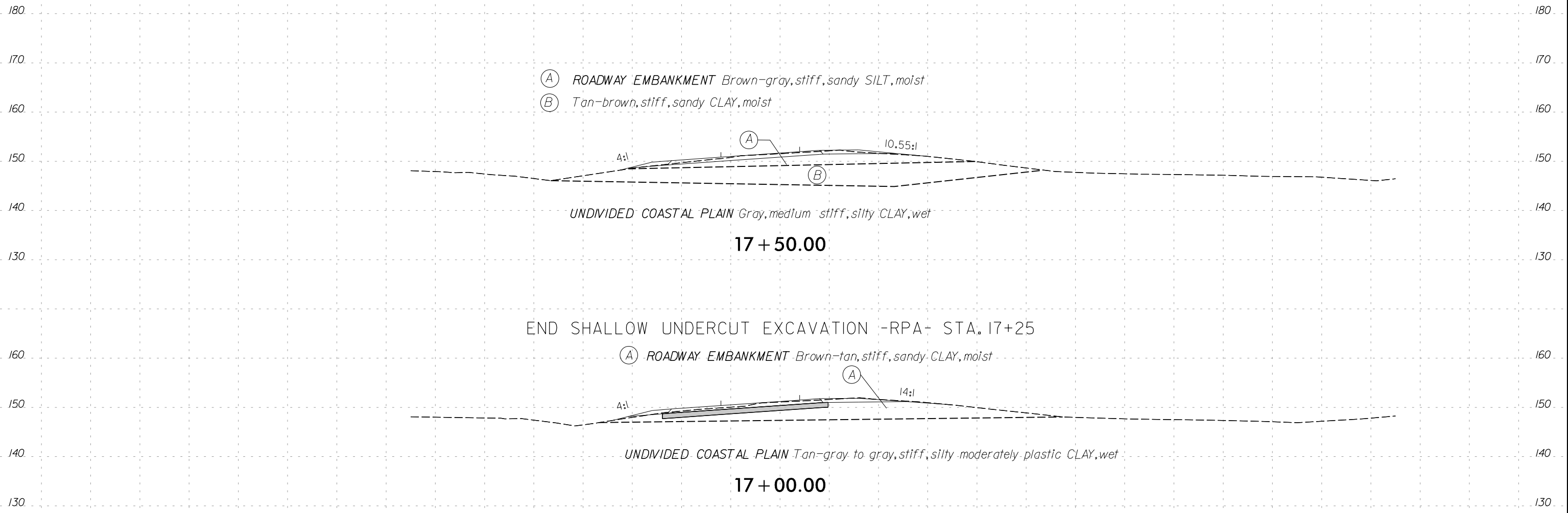
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-102	16+00	30' RT	3.5-5.0	A-6 (6)	37	20	31	23	16	30	95	78	48.9	22.6	-



-RPA-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



(A) ROADWAY EMBANKMENT Brown-gray, stiff, sandy SILT, moist
(B) Tan-brown, stiff, sandy CLAY, moist

UNDIVIDED COASTAL PLAIN Gray, medium stiff, silty CLAY, wet

17 + 50.00

END SHALLOW UNDERCUT EXCAVATION -RPA- STA. 17+25

(A) ROADWAY EMBANKMENT Brown-tan, stiff, sandy CLAY, moist

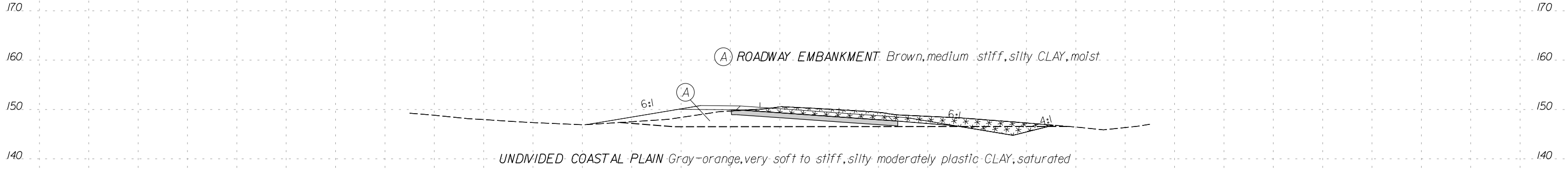
UNDIVIDED COASTAL PLAIN Tan-gray to gray, stiff, silty moderately-plastic CLAY, wet

17 + 00.00

-RPA-

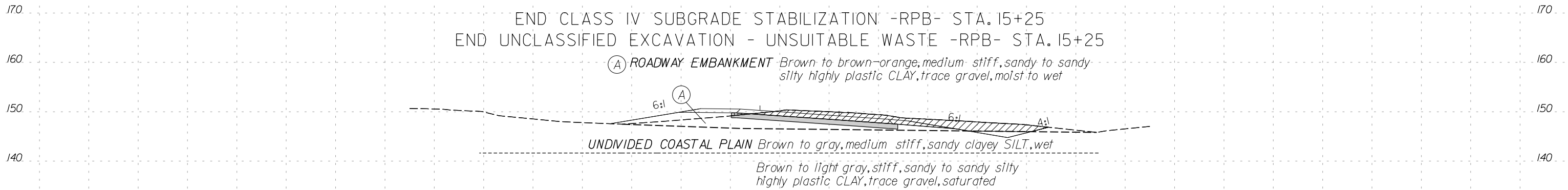
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



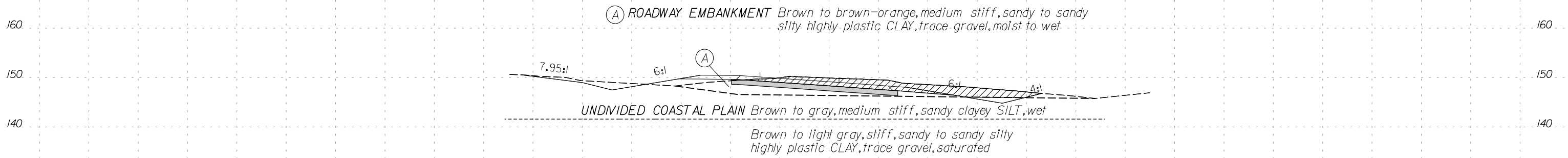
15 + 50.00

BEGIN UNCLASSIFIED EXCAVATION - ACCEPTABLE -RPB- STA. 15+25



15 + 00.00

BEGIN CLASS IV SUBGRADE STABILIZATION -RPB- STA. 14+75

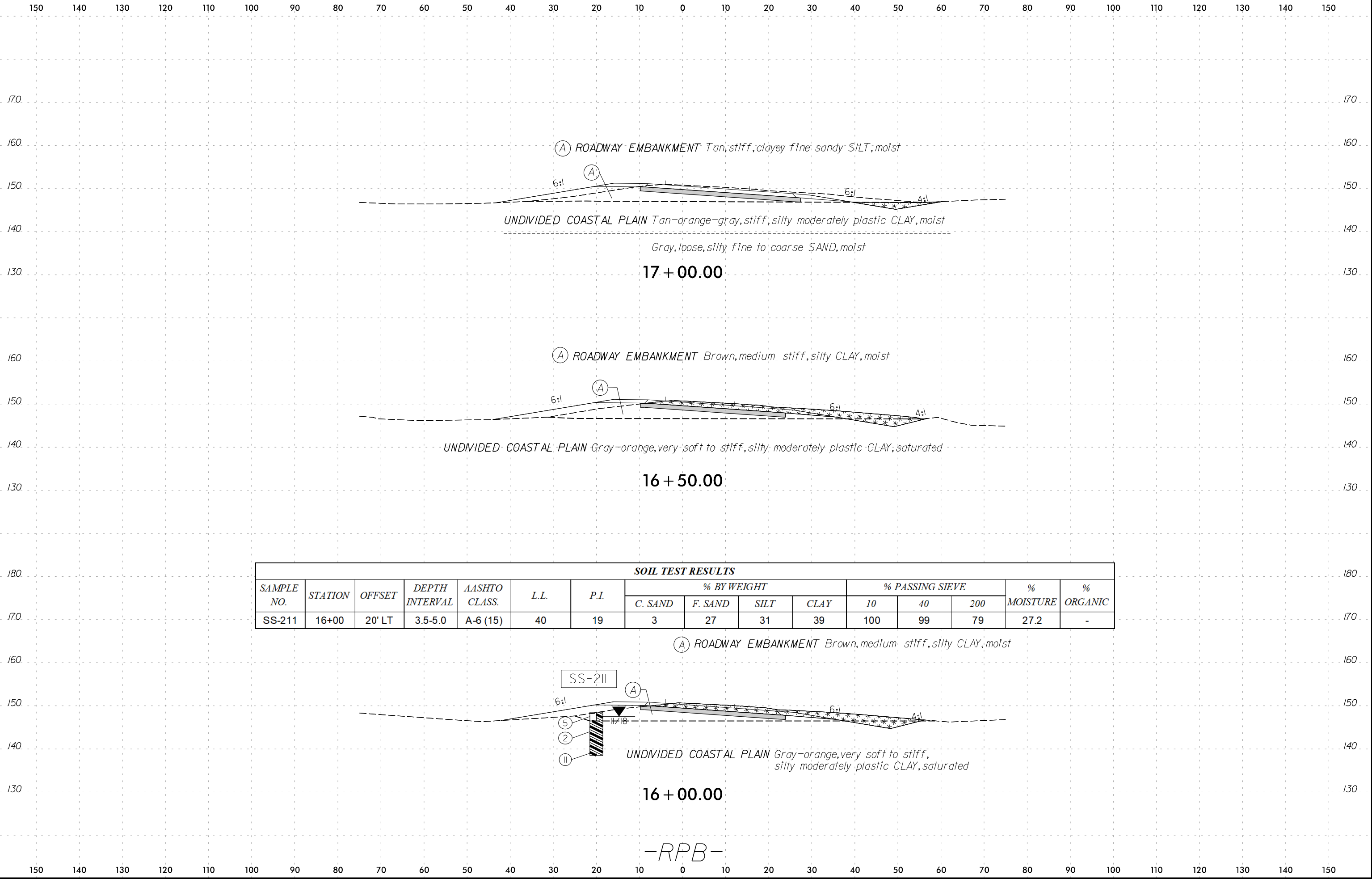


14 + 50.00

SHALLOW UNDERCUT EXCAVATION FOR -RPB- CONTINUES FROM SHEET 22
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE FOR -RPB- CONTINUES FROM SHEET 22

-RPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



17 + 00.00

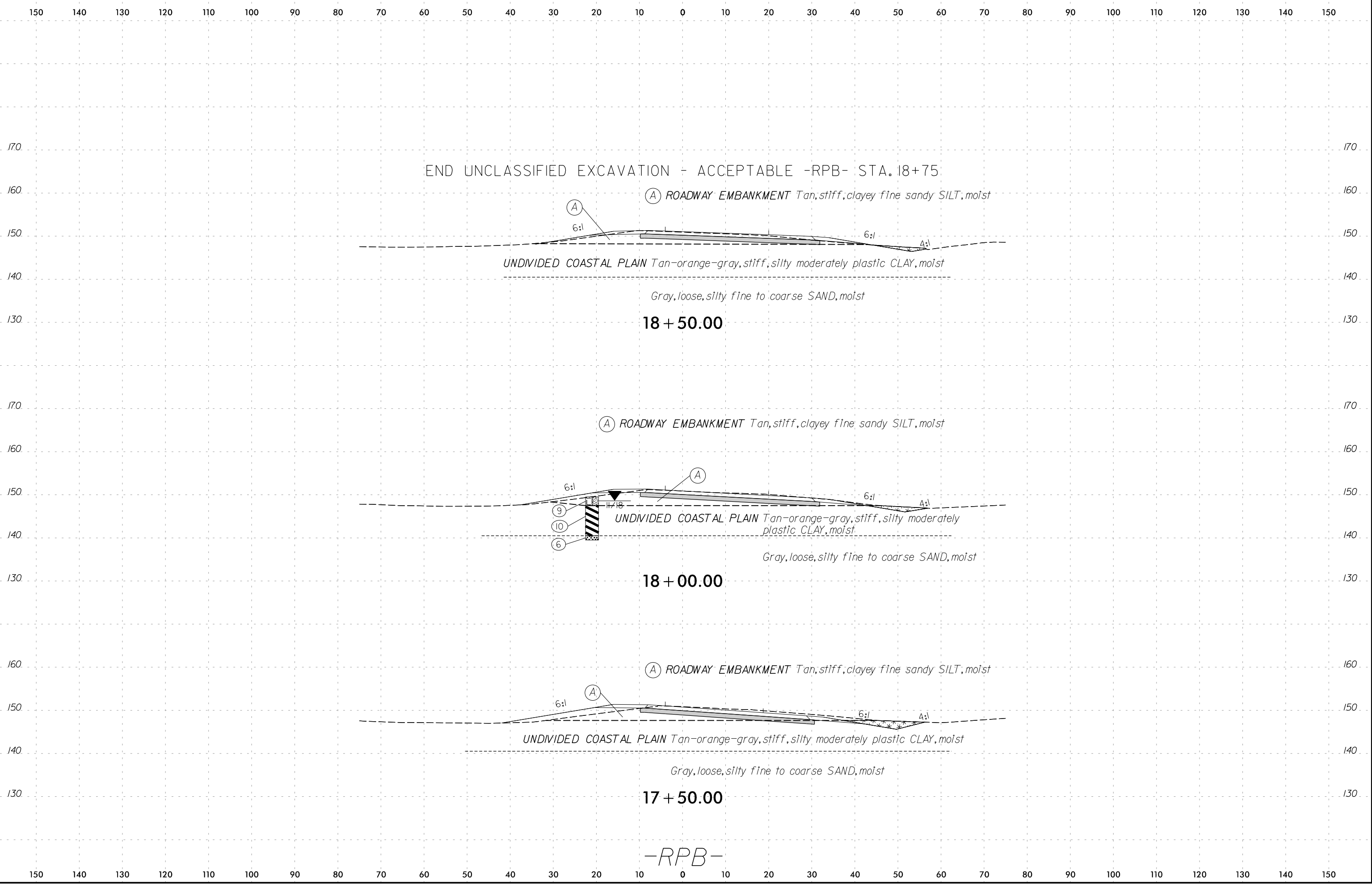
16 + 50.00

16 + 00.00

SOIL TEST RESULTS

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-211	16+00	20' LT	3.5-5.0	A-6 (15)	40	19	3	27	31	39	100	99	79	27.2	-

-RPB-



END UNCLASSIFIED EXCAVATION - ACCEPTABLE -RPB- STA. 18+75

(A) ROADWAY EMBANKMENT *Tan, stiff, clayey fine sandy SILT, moist*

(A)

6:1

6:1

4:1

UNDIVIDED COASTAL PLAIN *Tan-orange-gray, stiff, silty moderately plastic CLAY, moist*

Gray, loose, silty fine to coarse SAND, moist

18 + 50.00

(A) ROADWAY EMBANKMENT *Tan, stiff, clayey fine sandy SILT, moist*

(A)

6:1

(9)

(10)

(6)

11/18

UNDIVIDED COASTAL PLAIN *Tan-orange-gray, stiff, silty moderately plastic CLAY, moist*

Gray, loose, silty fine to coarse SAND, moist

18 + 00.00

(A) ROADWAY EMBANKMENT *Tan, stiff, clayey fine sandy SILT, moist*

(A)

6:1

6:1

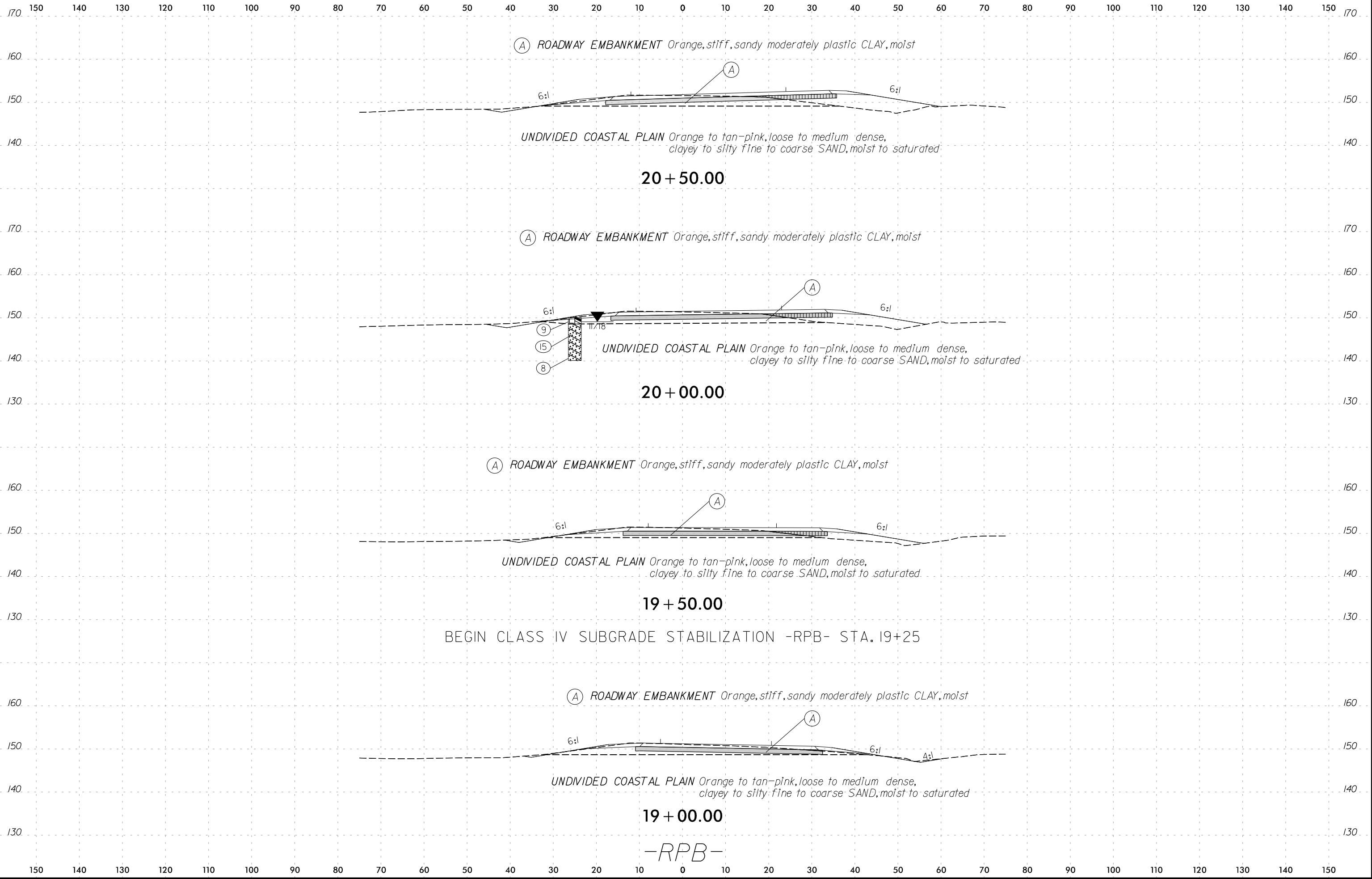
4:1

UNDIVIDED COASTAL PLAIN *Tan-orange-gray, stiff, silty moderately plastic CLAY, moist*

Gray, loose, silty fine to coarse SAND, moist

17 + 50.00

-RPB-

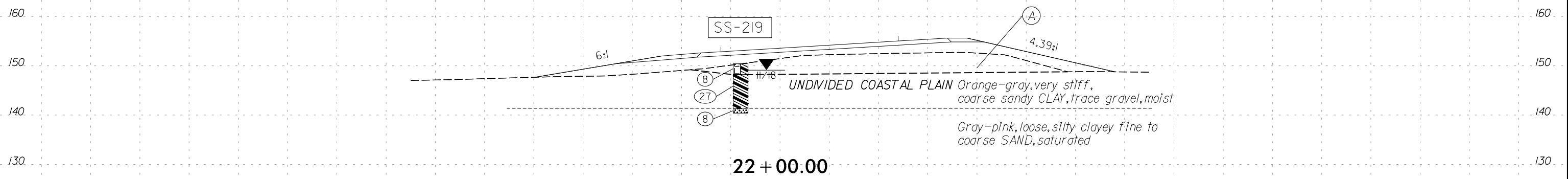


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

200 190 180 170 160 150 140 130 160 150 140 130 170 160 150 140 130

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-219	22+00	8' LT	0.0-1.5	A-6 (6)	35	16	24	21	23	32	93	76	56.4	15.3	-

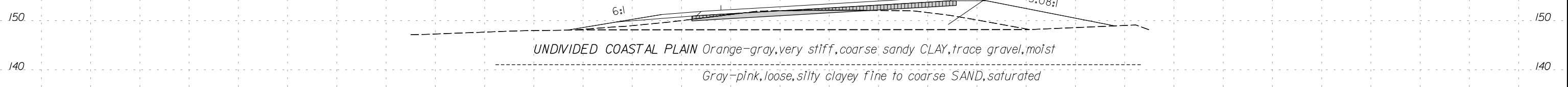
(A) ROADWAY EMBANKMENT Brown, medium stiff, sandy silty moderately plastic CLAY, wet



22 + 00.00

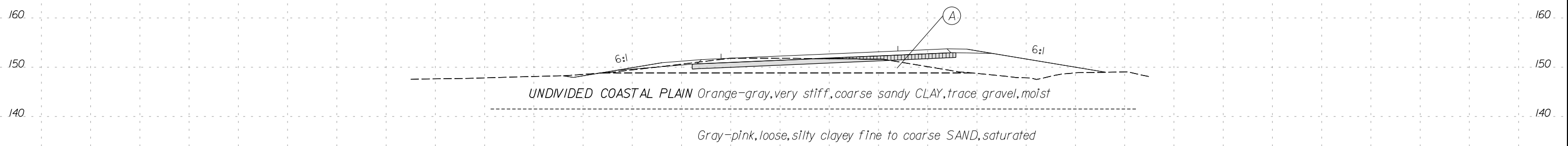
END CLASS IV SUBGRADE STABILIZATION -RPB- STA. 21+75
END SHALLOW UNDERCUT EXCAVATION -RPB- STA. 21+75

(A) ROADWAY EMBANKMENT Brown, medium stiff, sandy silty moderately plastic CLAY, wet



21 + 50.00

(A) ROADWAY EMBANKMENT Brown, medium stiff, sandy silty moderately plastic CLAY, wet

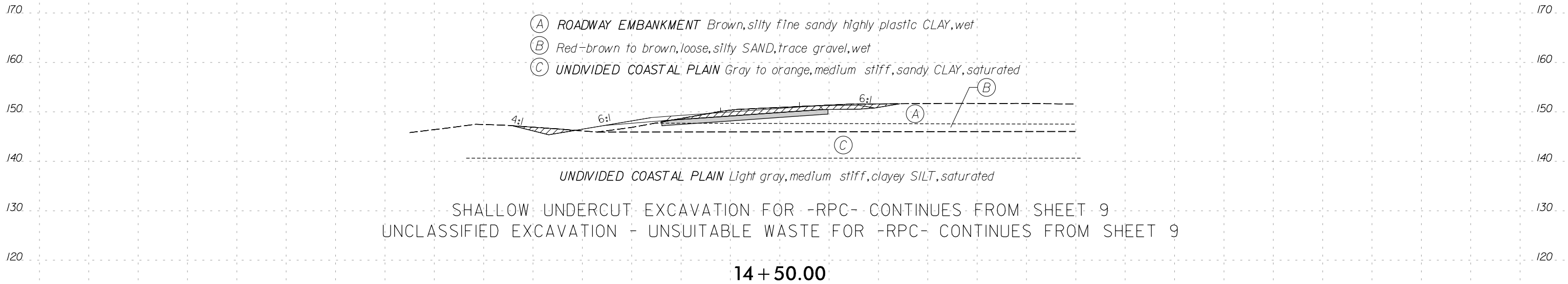
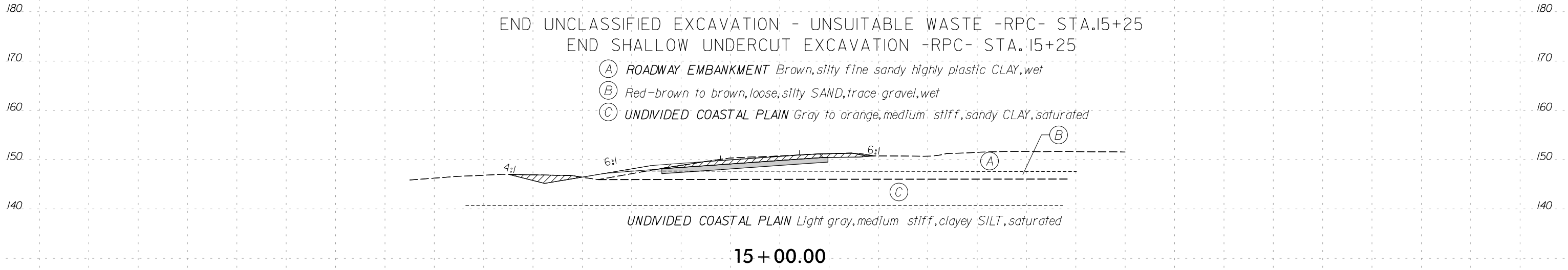
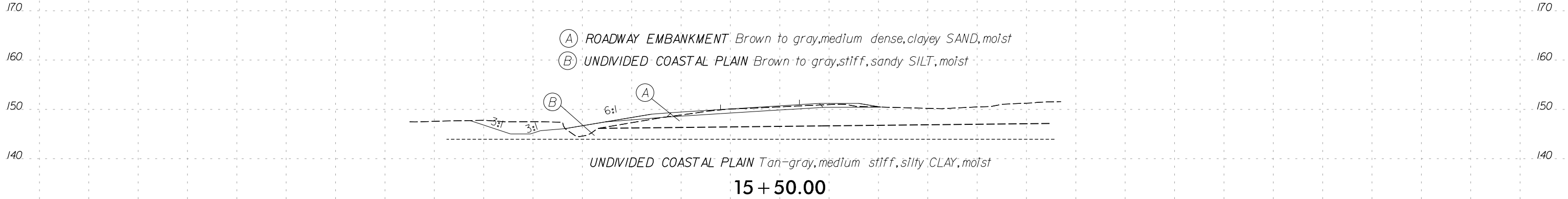


21 + 00.00

-RPB-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

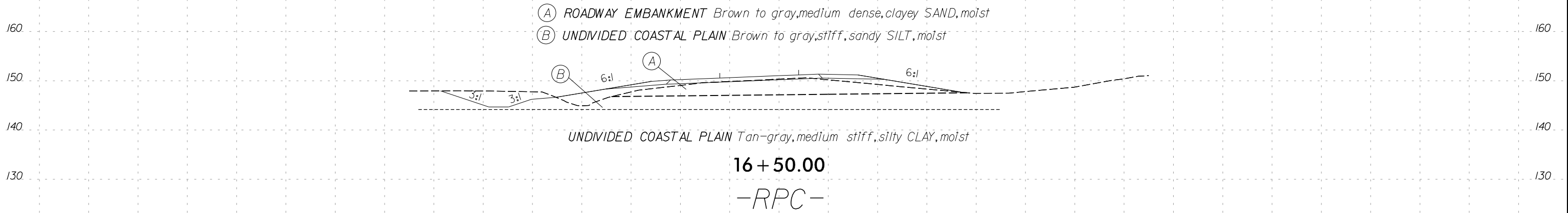
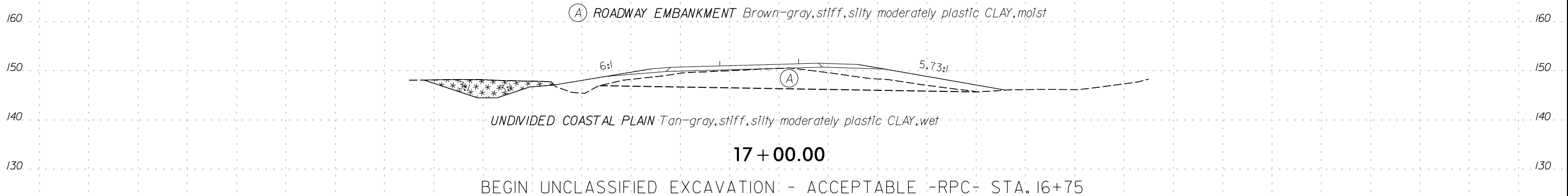
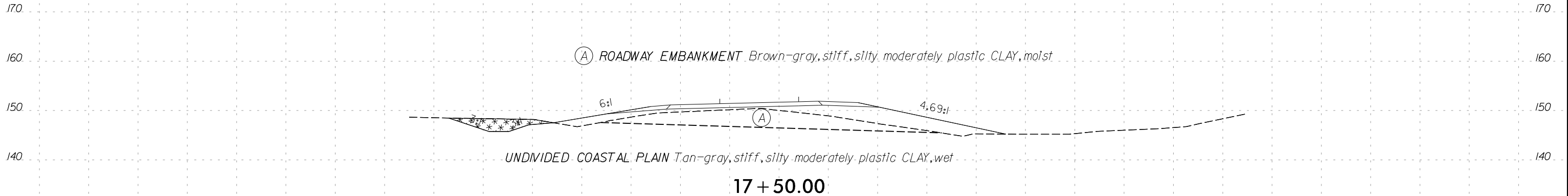
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



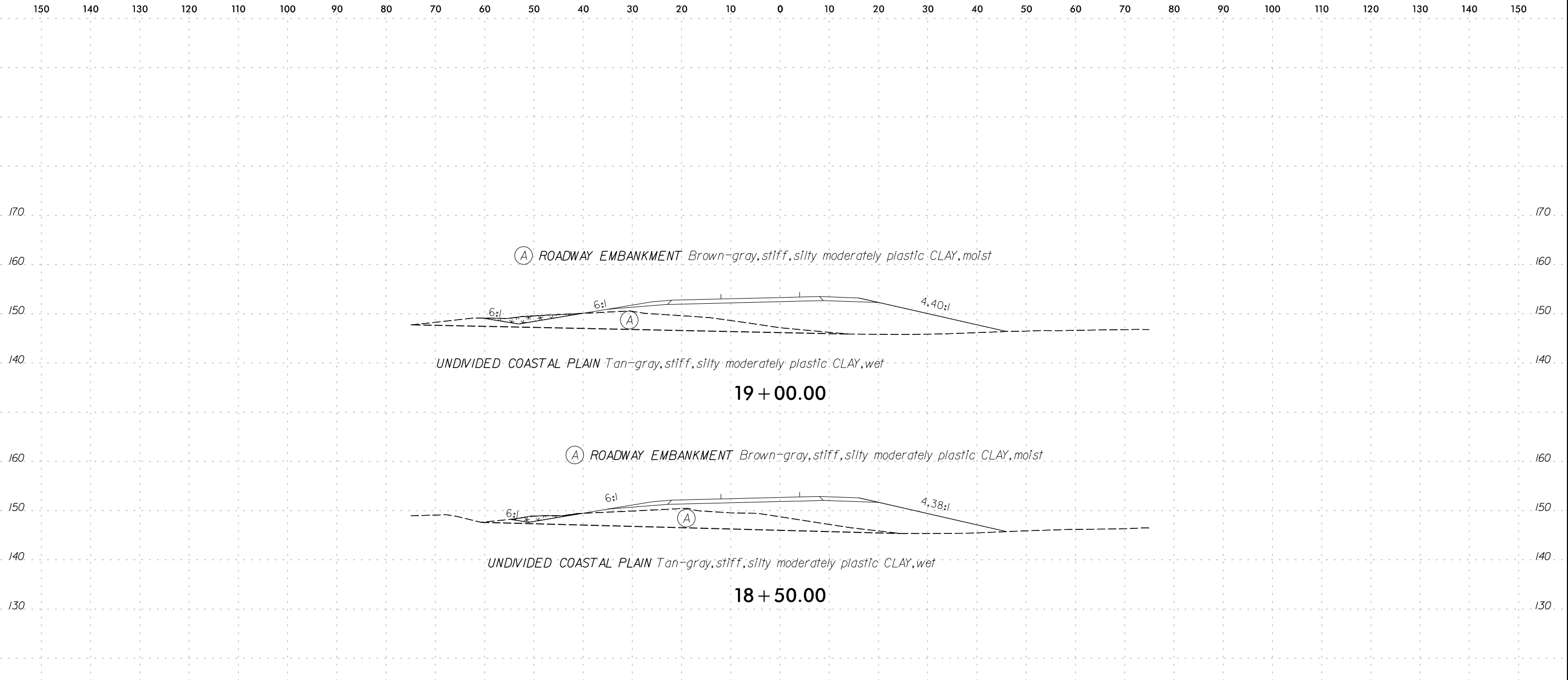
-RPC-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

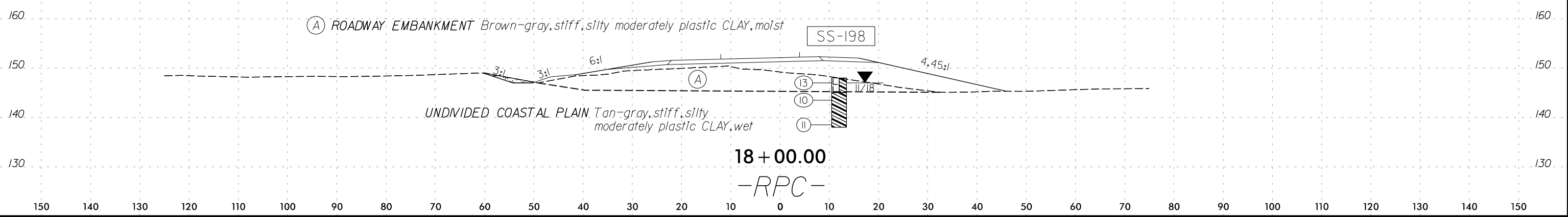
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-198	18+00	12' RT	3.5-5.0	A-6 (14)	36	17	3	22	42	33	100	99	84.1	17.7	-

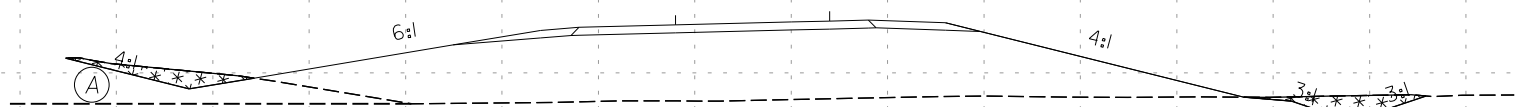


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END UNCLASSIFIED EXCAVATION - ACCEPTABLE -RPC- STA. 20+75

(A) ROADWAY EMBANKMENT *Brown-gray, stiff silty moderately plastic CLAY, moist*



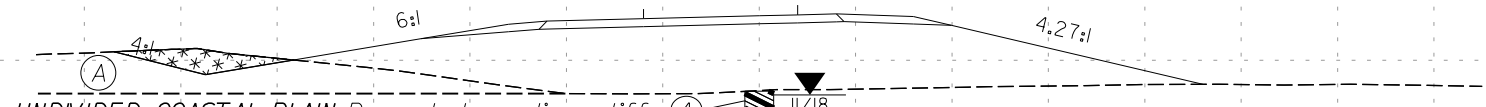
UNDIVIDED COASTAL PLAIN *Brown to tan, medium stiff to stiff, silty CLAY, moist*

Gray-tan to gray, stiff, clayey fine sandy SILT, wet

20 + 50.00

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

(A) ROADWAY EMBANKMENT *Brown-gray, stiff silty moderately plastic CLAY, moist*



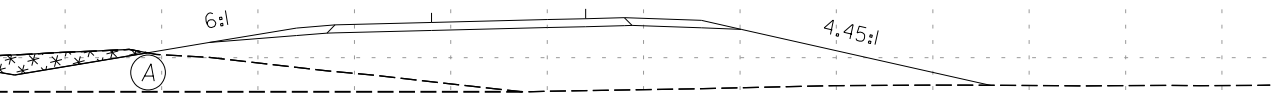
UNDIVIDED COASTAL PLAIN *Brown to tan, medium stiff to stiff, silty CLAY, moist*

Gray-tan to gray, stiff, clayey fine sandy SILT, wet

20 + 00.00

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

(A) ROADWAY EMBANKMENT *Brown-gray, stiff silty moderately plastic CLAY, moist*



UNDIVIDED COASTAL PLAIN *Brown to tan, medium stiff to stiff, silty CLAY, moist*

Gray-tan to gray, stiff, clayey fine sandy SILT, wet

19 + 50.00

-RPC-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

170

170

(A) ROADWAY EMBANKMENT *Brown-gray, loose to medium dense clayey SAND, moist*

(A)

4:1

5:1

4:1

3:1

3:1

UNDIVIDED COASTAL PLAIN *Brown to tan, loose, silty SAND, trace organics, moist*

Brown to orange to gray, medium stiff, sandy slightly plastic CLAY, saturated

Gray to orange, very loose to medium dense, silty clayey SAND, saturated

Gray, medium stiff, fine sandy SILT, saturated

21 + 00.00

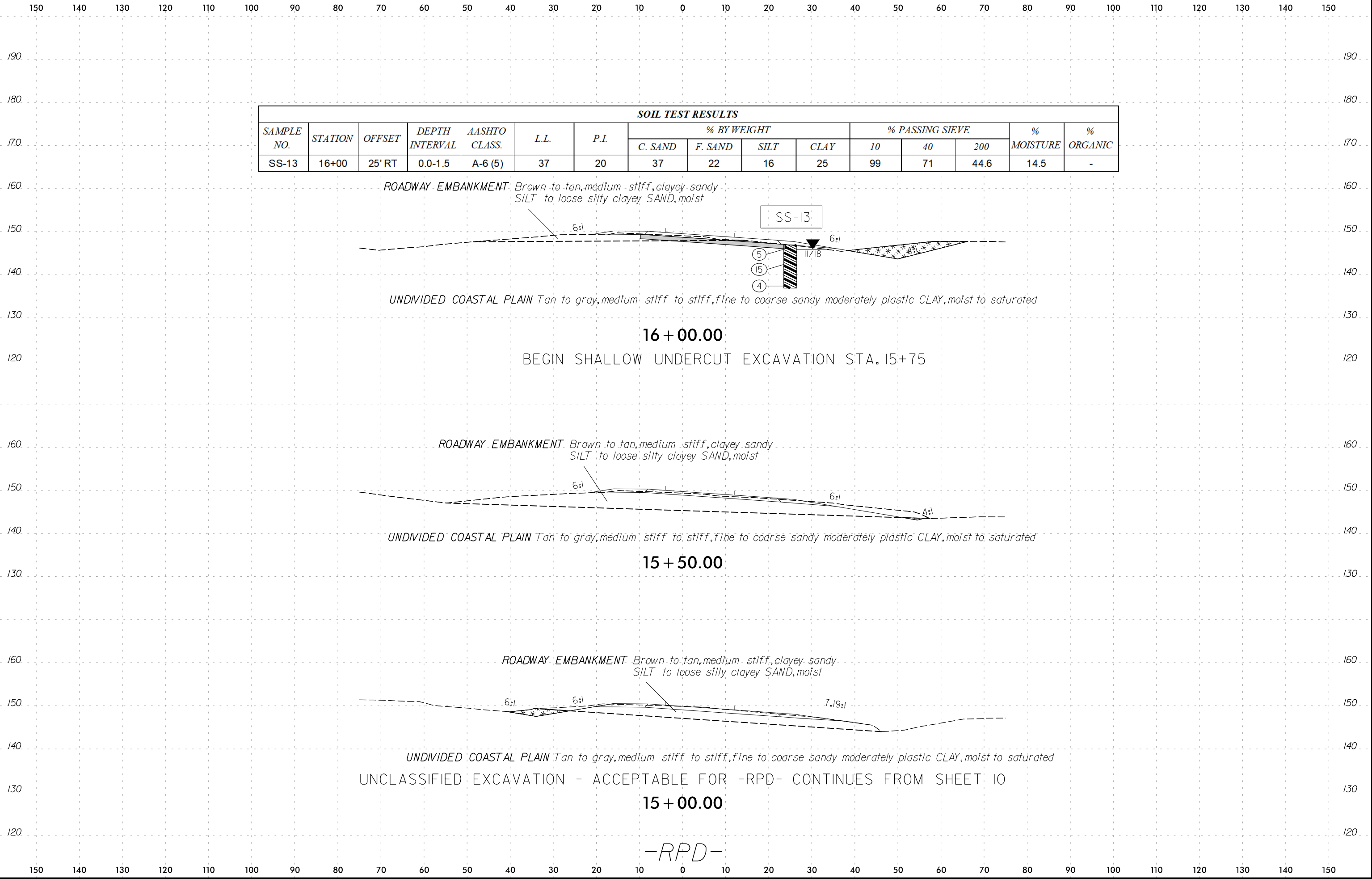
-RPC-

120

120

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-13	16+00	25' RT	0.0-1.5	A-6 (5)	37	20	37	22	16	25	99	71	44.6	14.5	-



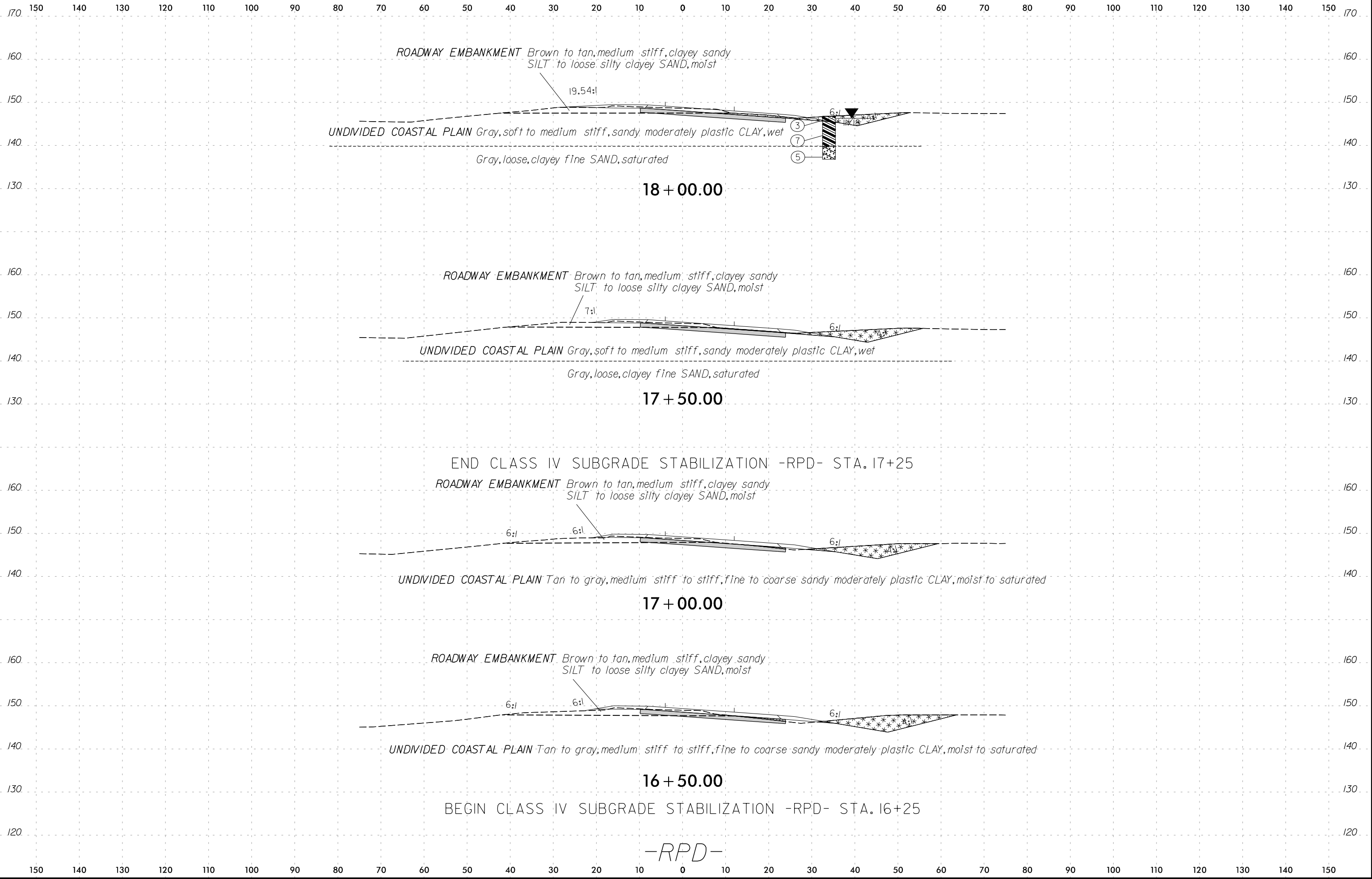
ROADWAY EMBANKMENT *Brown to tan, medium stiff, clayey sandy SILT to loose silty clayey SAND, moist*

UNDIVIDED COASTAL PLAIN *Tan to gray, medium stiff to stiff, fine to coarse sandy moderately plastic CLAY, moist to saturated*

16 + 00.00
BEGIN SHALLOW UNDERCUT EXCAVATION STA. 15+75

15 + 50.00

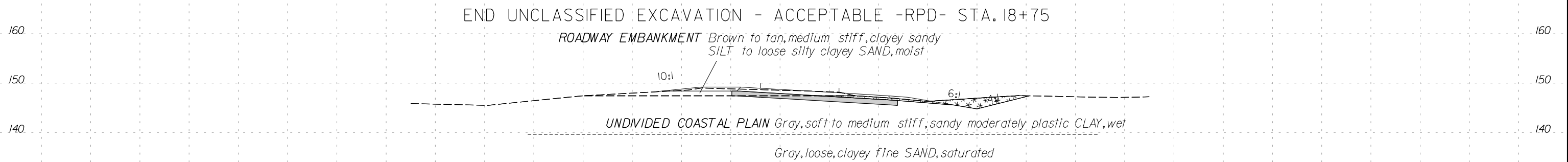
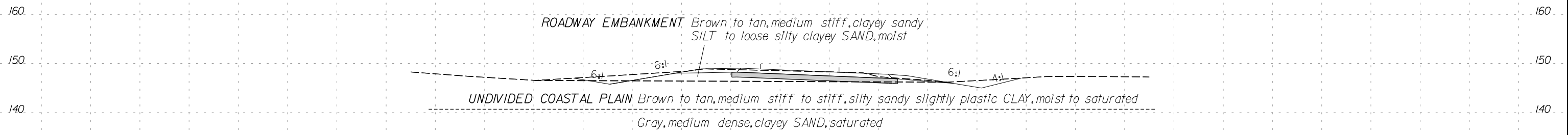
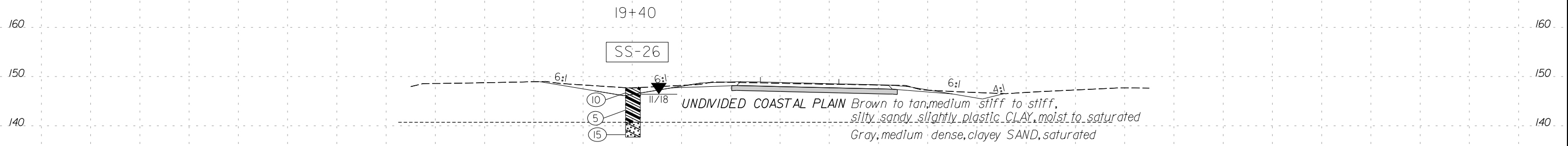
15 + 00.00
UNCLASSIFIED EXCAVATION - ACCEPTABLE FOR -RPD- CONTINUES FROM SHEET 10
-RPD-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

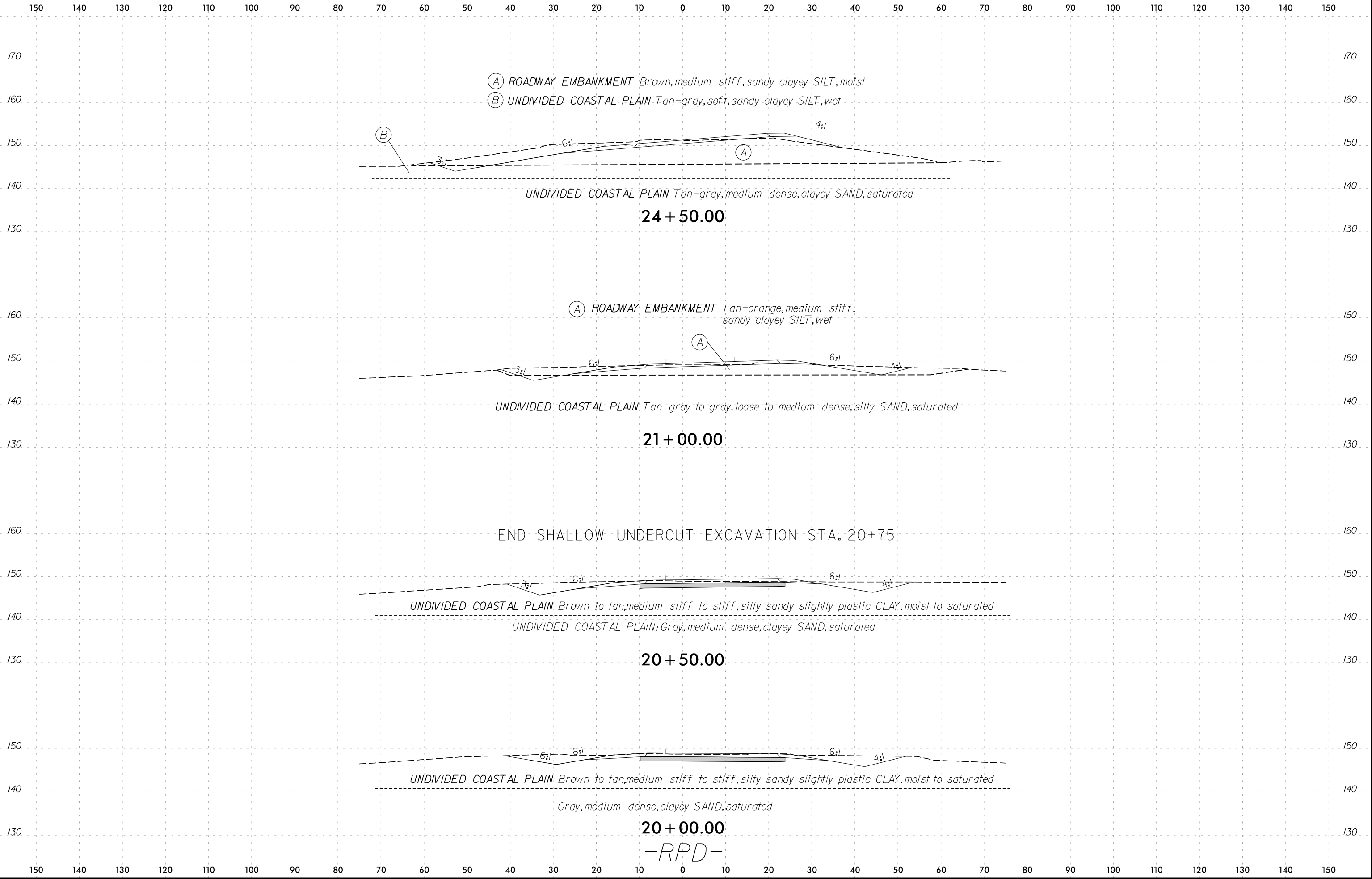
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-26	19+40	30' LT	3.5-5.0	A-6 (3)	27	13	30	23	21	26	100	87	50.8	19.6	-



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9/29/2021 R:\Geotech\InvestigationDesign\CADD_GEO\TECH\XSC\Recommendations_graphics\I5972_GEO_XSR_RPD.dgn

-RPD-

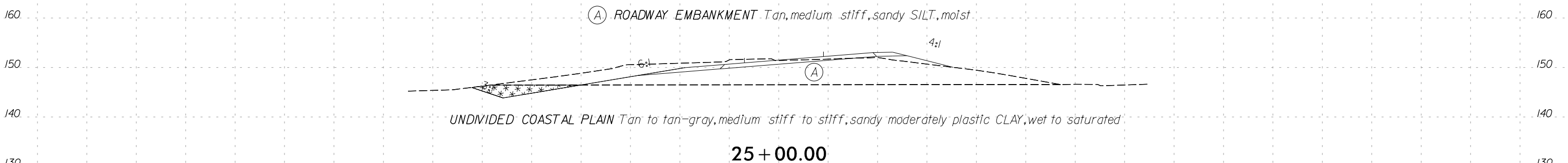
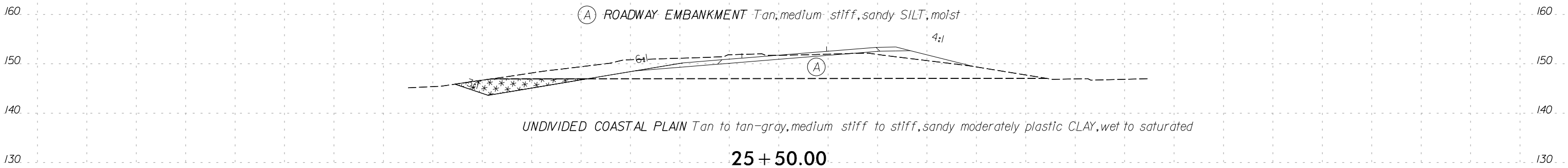
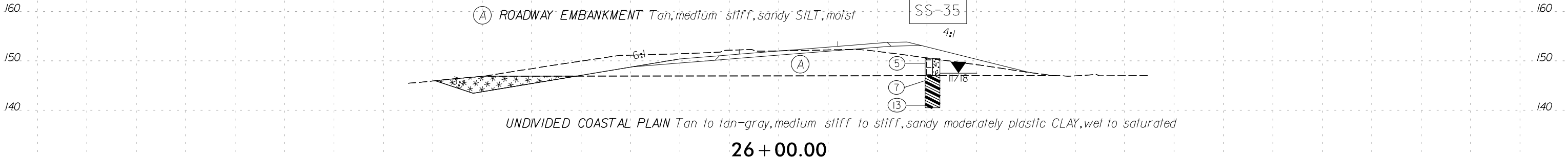


-RPD-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

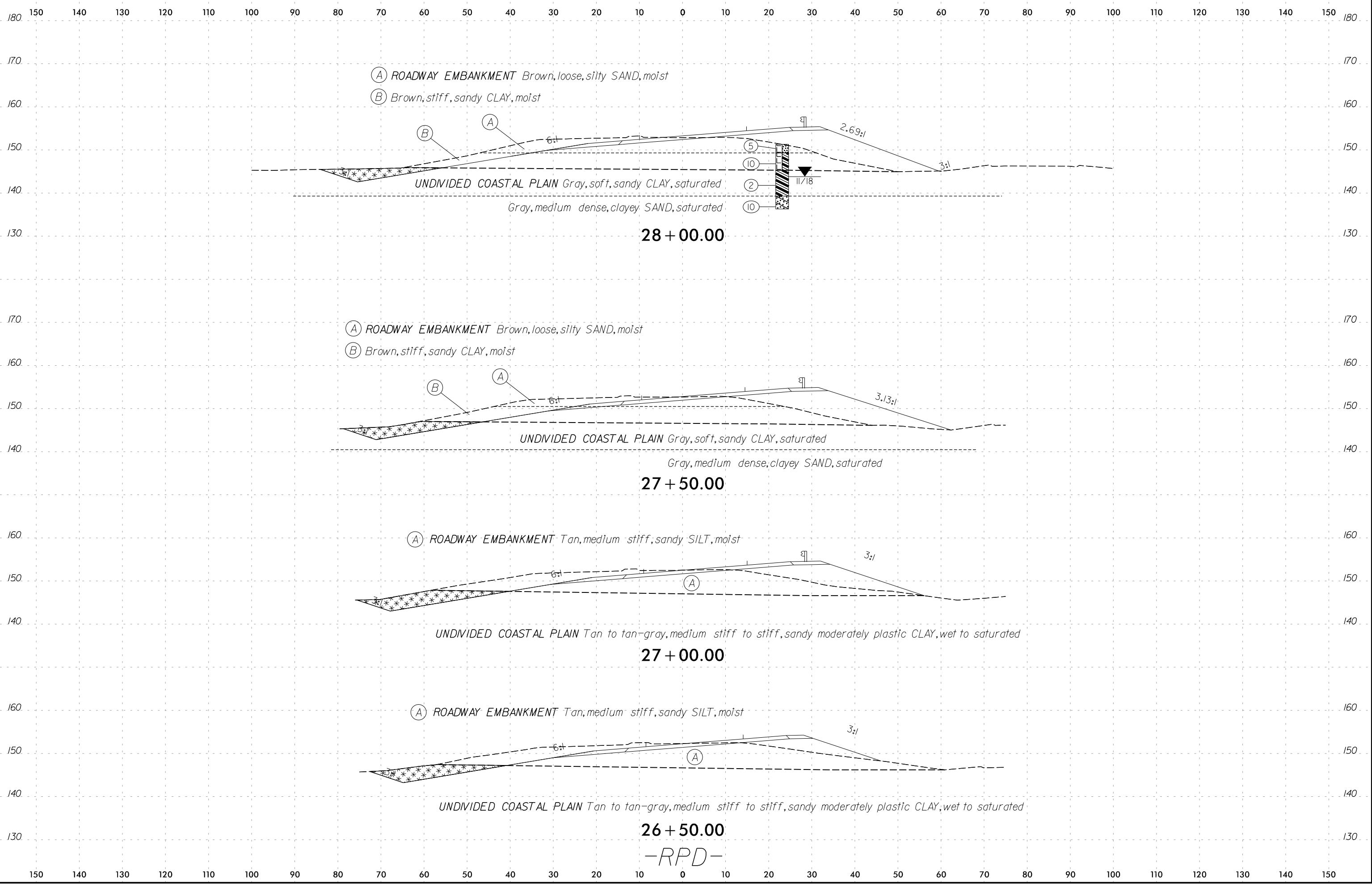
SOIL TEST RESULTS															
SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVE			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-35	26+00	31' RT	3.5-5.0	A-6 (4)	36	18	34	25	17	24	100	80	45.7	18.9	-



BEGIN UNCLASSIFIED EXCAVATION - ACCEPTABLE -RPD- STA. 24+75

-RPD-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



26 + 50.00

-RPD-

27 + 50.00

27 + 00.00

28 + 00.00

