

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.	I-5986B	1	105

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 1919 TOT-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

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

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

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

ROADWAY
SUBSURFACE INVESTIGATION

COUNTY CUMBERLAND, HARNETT AND JOHNSTON
PROJECT DESCRIPTION IMPROVE I-95 INTERCHANGES
AT US 421 (EXIT 73) AND SR 1793 (SPRING BRANCH /
POPE ROAD) (EXIT 72)

SITE DESCRIPTION SECTION 2 of 4; I-5878 PORTION,
-L- STATION 946+00 TO 1063+00

RECOMMENDATIONS

CROSS SECTIONS

LINE	STATION	SHEETS
-L-	953+00 - 956+50	4 - 6
-L-	959+00 - 960+50	7 - 8
-L-	962+50 - 968+50	9 - 13
-L-	977+00 - 988+50	14 - 22
-L-	1015+00 - 1023+00	24 - 28
-L-	1055+50 - 1059+00	30 - 32
-Y14-	34+00 - 39+00	33 - 38
-Y14RPB-	10+00 - 10+50	8
-Y14RPB-	12+49.67 - 14+46.88	9 - 10
-Y14RPB-	14+98 - 19+00	39 - 41
-Y14RPC-	10+38.88	6
-Y14RPC-	12+88.22 - 14+37.85	7 - 8
-Y14RPC-	14+37.85 - 21+75	42 - 48
-Y15-	21+50 - 26+00	49 - 52
-Y15RPA-	12+81.55 - 10+32.90	24 - 26
-Y15RPA-	13+30.23 - 19+00	53 - 58
-Y15RPD-	14+24.37 - 10+28.95	24 - 27
-Y15RPD-	14+24.37 - 21+50	59 - 64
-Y24-	51+50 - 55+00	65 - 67
-Y24-	66+50 - 69+00	67 - 69
-NBCD-	30+50 - 35+50	70 - 74
-SBCD-	13+69.75 - 40+50	75 - 92
-SR9-	80+93.42 - 84+43.42	4 - 6
-SR9-	86+93.42 - 87+43.44	7
-SR9-	89+88 - 92+76	93 - 95
-SR9A-	21+50 - 27+50	96 - 98
-SR11-	10+50 - 12+00	99 - 100
-SR11-	17+05.80 - 24+96.99	24 - 29
-SR12-	15+50 - 21+50	101 - 104
-SR13-	18+01.47 - 21+51.47	30 - 32
-SR18-	24+00 - 25+00	105

REFERENCE: I-5986B

PROJECT: 47532

PERSONNEL	PERSONNEL
<u>E. BLONSHINE</u>	<u>T. WILLIAMS</u>
<u>G. GOSLIN</u>	<u>J. MARLOW</u>
<u>A. BHUIYAN</u>	<u>T. HILL</u>
<u>H. CAMP</u>	<u>E. ARGABRIGHT</u>
<u>M. STEPHENSON</u>	<u>C. CHANDLER</u>
<u>J. SWARTLEY</u>	<u>T. MILLER</u>
<u>J. WHITE</u>	<u>S. HARDEE</u>

INVESTIGATED BY S&ME, INC.
DRAWN BY C. CHANDLER
CHECKED BY K. HILL
SUBMITTED BY S. MITCHELL
DATE APRIL 2020



9751 SOUTHERN PINE BLVD
CHARLOTTE, NC 28273
(704) 523-4726



DocuSigned by:
Stacie Mitchell 4/24/2020
BBC611B64F19458 SIGNATURE DATE

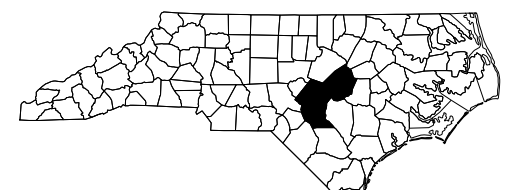
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

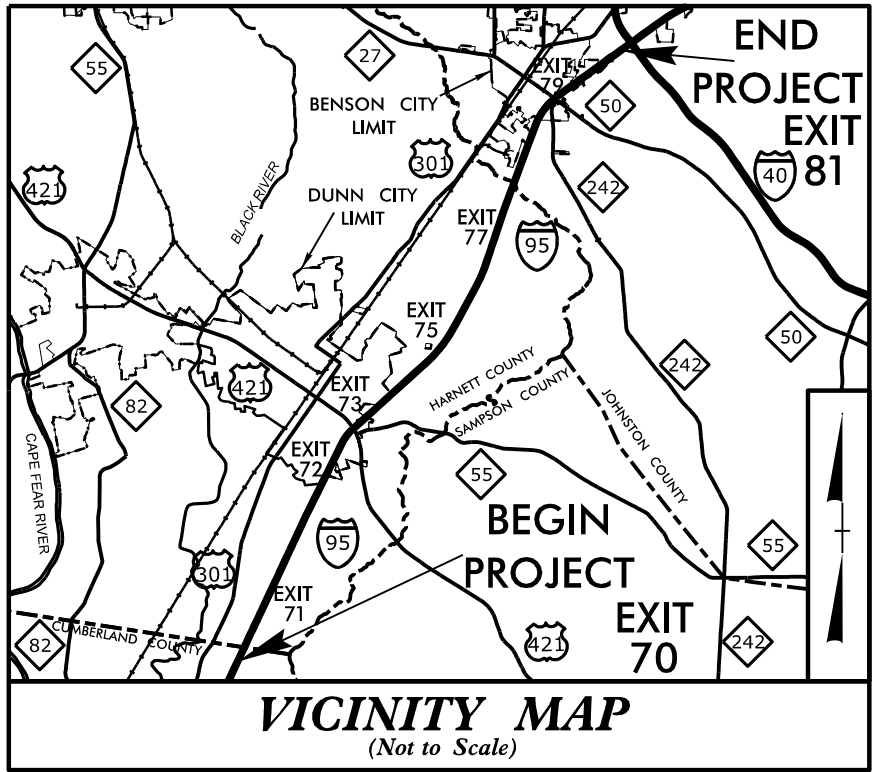
Table with multiple columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, MINERALOGICAL COMPOSITION, COMPRESSION, PERCENTAGE OF MATERIAL, GROUND WATER, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5986B	3	105
PROJ. REFERENCE NO.	STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
I-5986B	47532.1.3		PE
I-5986B	47532.2.3		R/W
I-5877	53077.1.1	NHPP-0095(032)69	PE
I-5877	53077.1.2		PE
I-5877	53077.2.1		R/W
I-5877	53077.2.2		UTIL
I-5878	53078.1.1	NHPP-0095(007)73	PE
I-5878	53078.1.2		PE
I-5878	53078.2.1		R/W
I-5878	53078.2.2	NHPP-0095(017)73	R/W
I-5883	53083.1.1	NHPP-0095(033)74	PE
I-5883	53083.1.2		PE
I-5883	53083.2.1		R/W
I-5883	53083.2.2	NHPP-0095(033)74	R/W

25% PLANS (I-5878 Section)



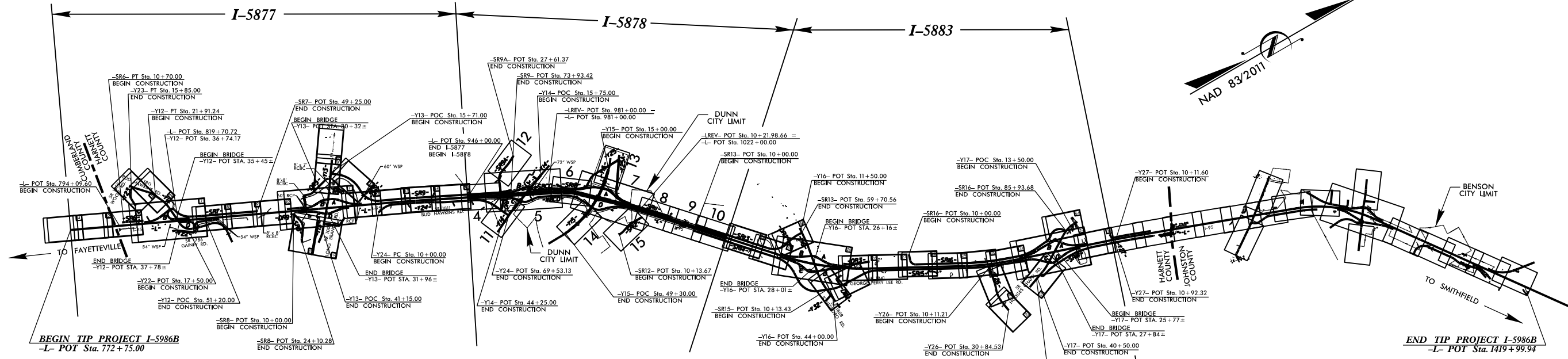
TIP PROJECT: I-5986B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**CUMBERLAND, HARNETT,
AND JOHNSTON COUNTIES**

LOCATION: I-95 FROM SR 1811 (BUD HAWKINS ROAD) (EXIT 70) TO I-40 (EXIT 81). WIDEN TO EIGHT LANES.

TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS, CULVERTS, AND STRUCTURES

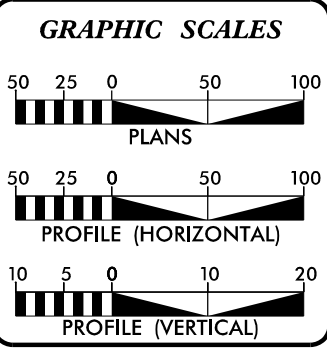


NOTES:

- THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
- CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
- THIS PROJECT IS WITHIN DUNN AND BENSON MUNICIPAL BOUNDARIES.
- DESIGN EXCEPTION REQUIRED FOR HORIZONTAL ALIGNMENT AND HORIZONTAL STOPPING SIGHT DISTANCE ON SR 1811 (BUD HAWKINS ROAD) AND SR 1785 (ELM ST. EXT.). (SEE PLAN SHEETS 7, 12 & 13)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2020 =	58,900
ADT 2040 =	75,700
K =	7 %
D =	55 %
T =	24 % *
V =	70 MPH
* (17% TTST + 7% DUALS)	
FUNC CLASS =	INTERSTATE STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I 5986B =	11.865 MILES
LENGTH STRUCTURE TIP PROJECT I-5986B =	0.020 MILES
TOTAL LENGTH TIP PROJECT I-5986B =	11.885 MILES

Prepared in the Office of:
Michael Baker Engineering, Inc.
8000 Regency Parkway, Suite 600
Cary, NC 27518
Professional Corporation License Number: F-1084

FOR DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY 1, 2019

LETTING DATE: JULY 21, 2020

SUSAN C. LANCASTER, P.E.
PROJECT ENGINEER

CURTIS TILLMAN, P.E.
PROJECT DESIGN ENGINEER

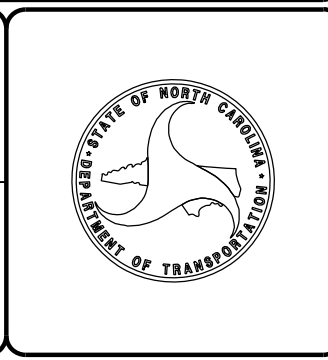
STEVE D. KENDALL, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

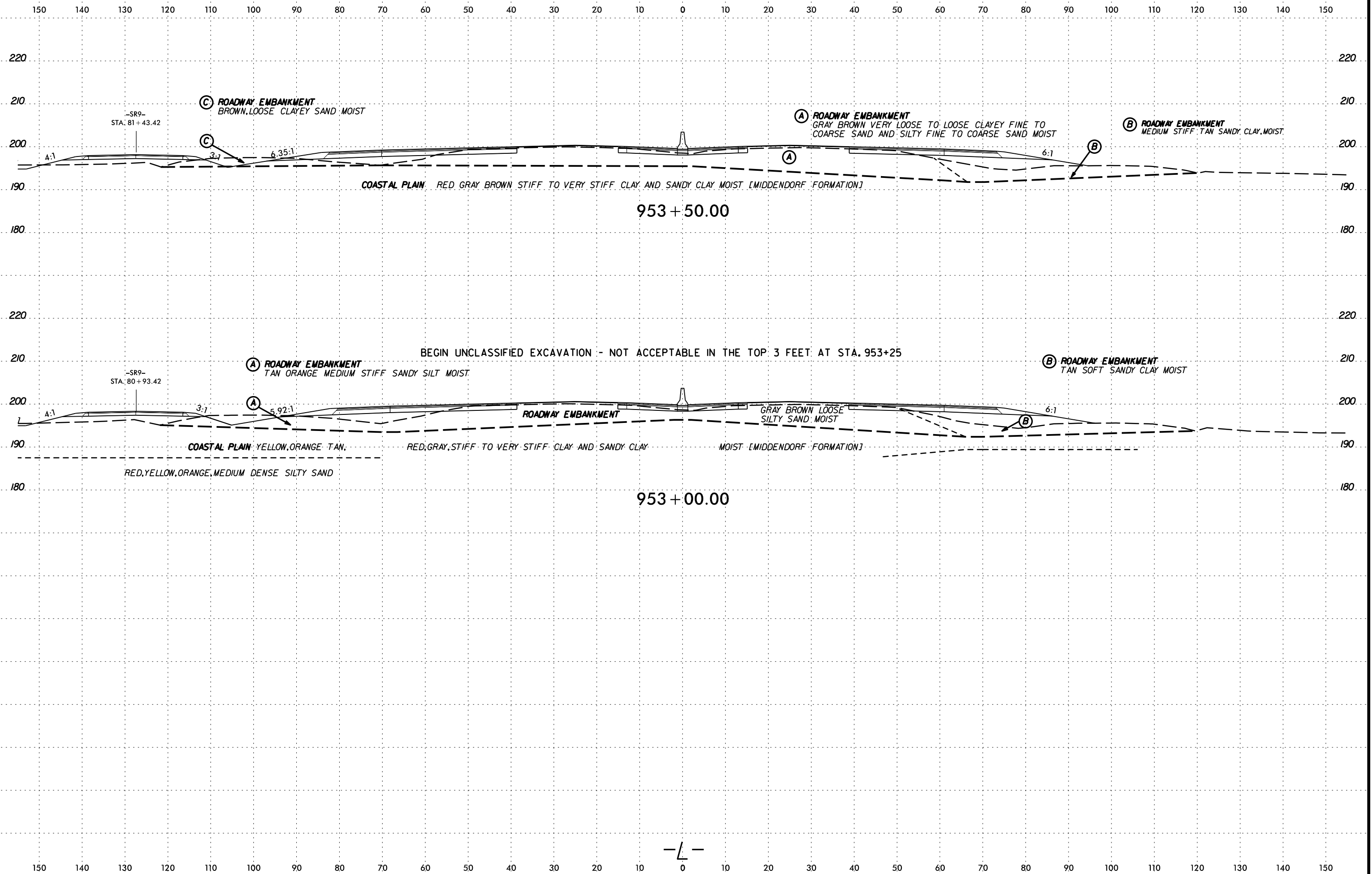
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



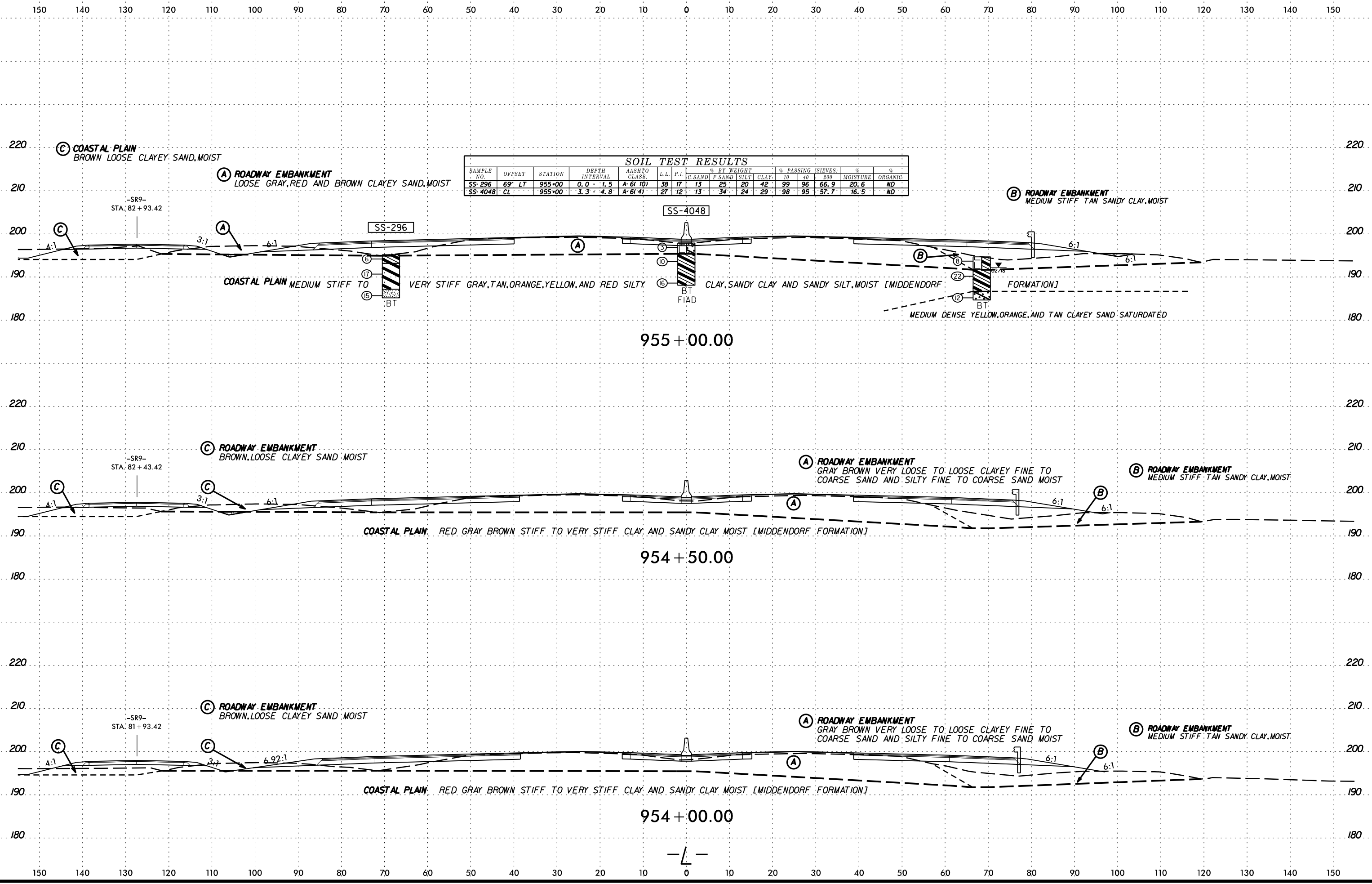
09/08/19

6/23/16



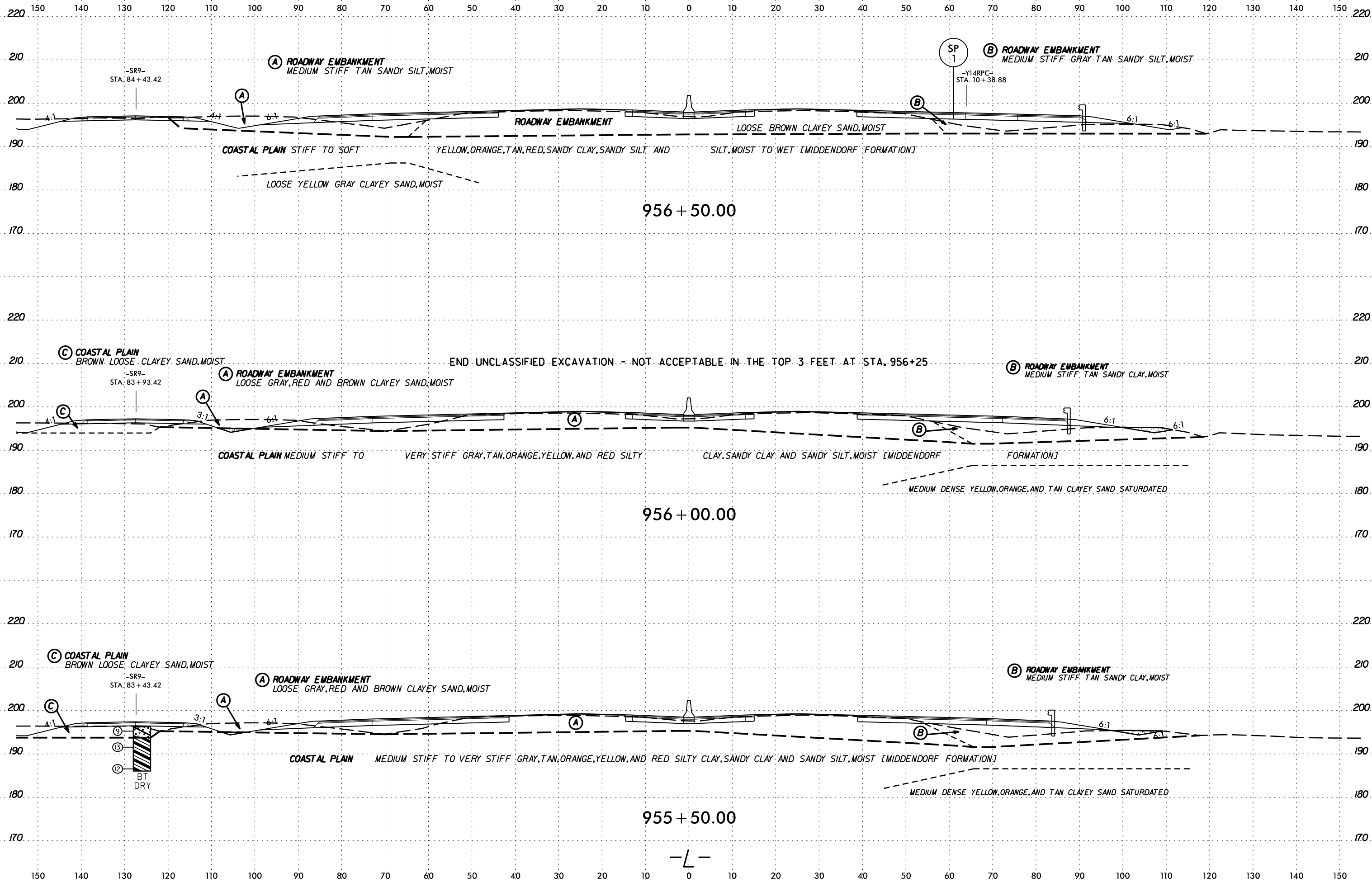
SCHEMATIC CONSTRUCTION PERMANENT

-L-

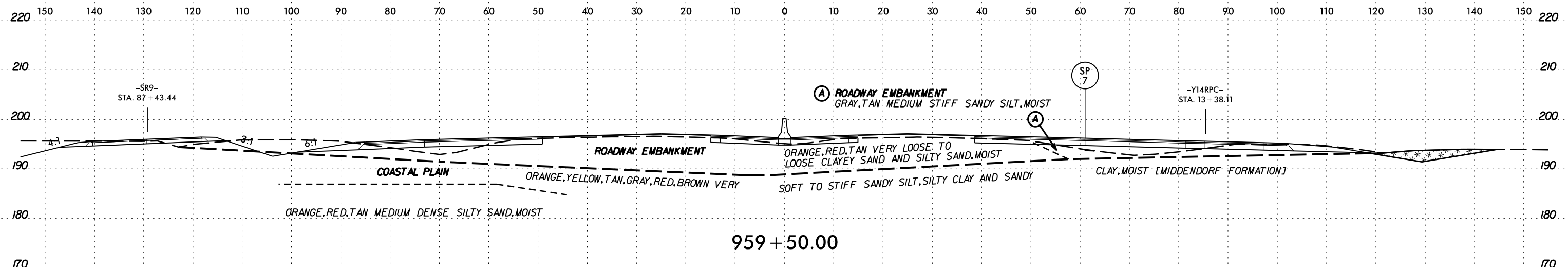


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-296	69' LT	955+00	0.0 - 1.5	A-6(10)	38	17	13	25	20	42	99	96	66.9	20.6	ND
SS-4048	CL	955+00	3.3 - 4.8	A-6(4)	27	12	13	34	24	29	98	95	57.7	16.5	ND

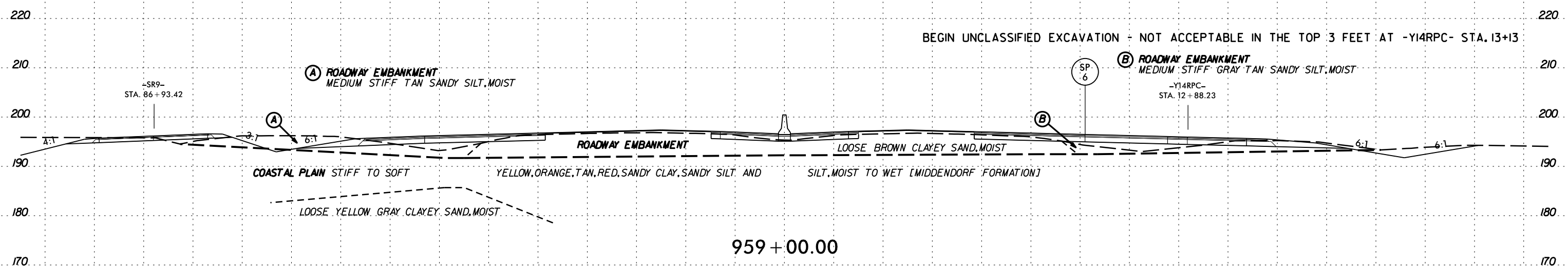
SYSTEMS DESIGN
 CONSULTING
 INC.
 10000
 JULESSA
 AVENUE
 SUITE 100
 JULESSA, CA 94588
 (925) 938-8800
 WWW.SDCON.COM



SYTIME
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ARRIVE



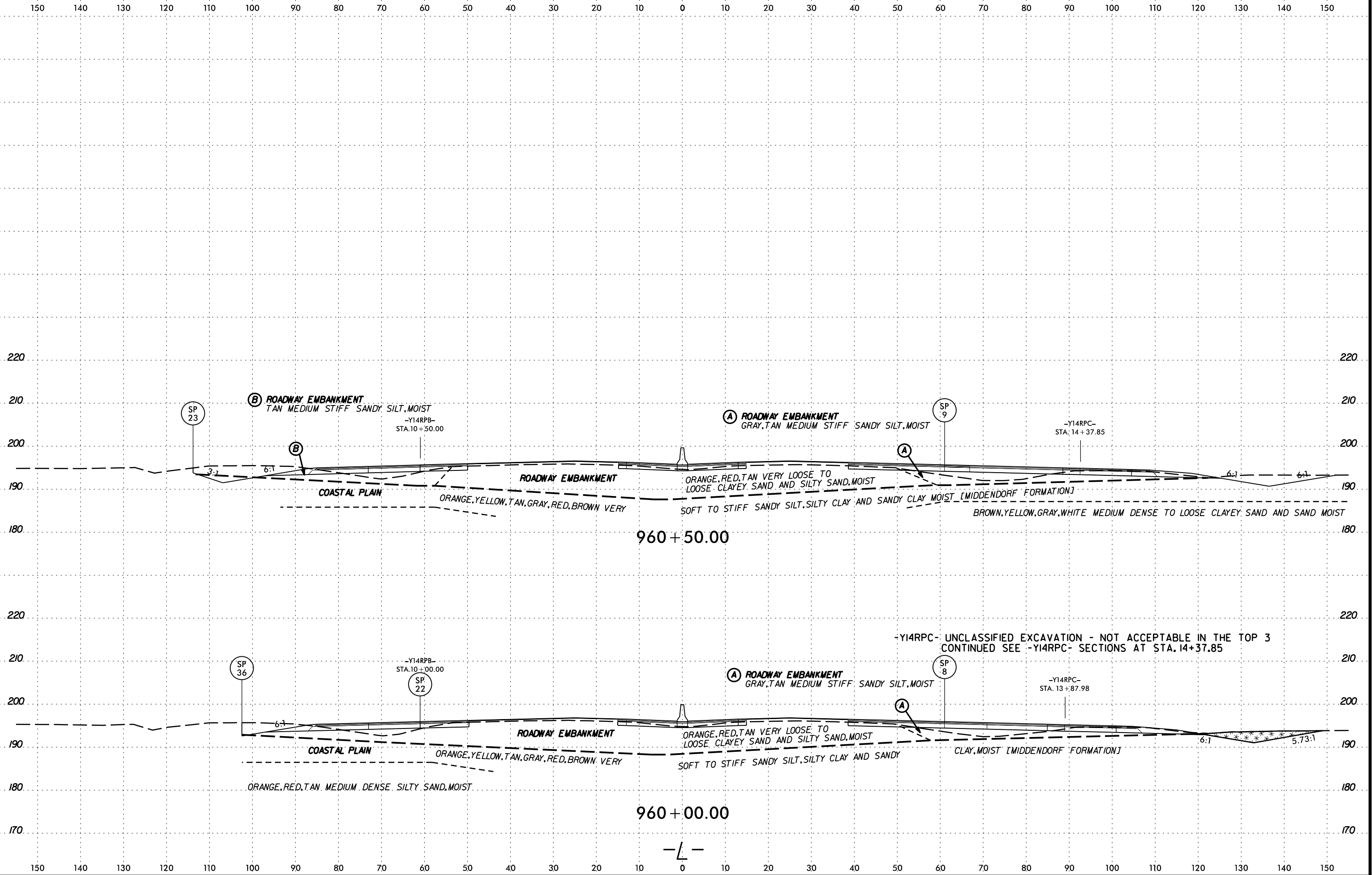
959 + 50.00



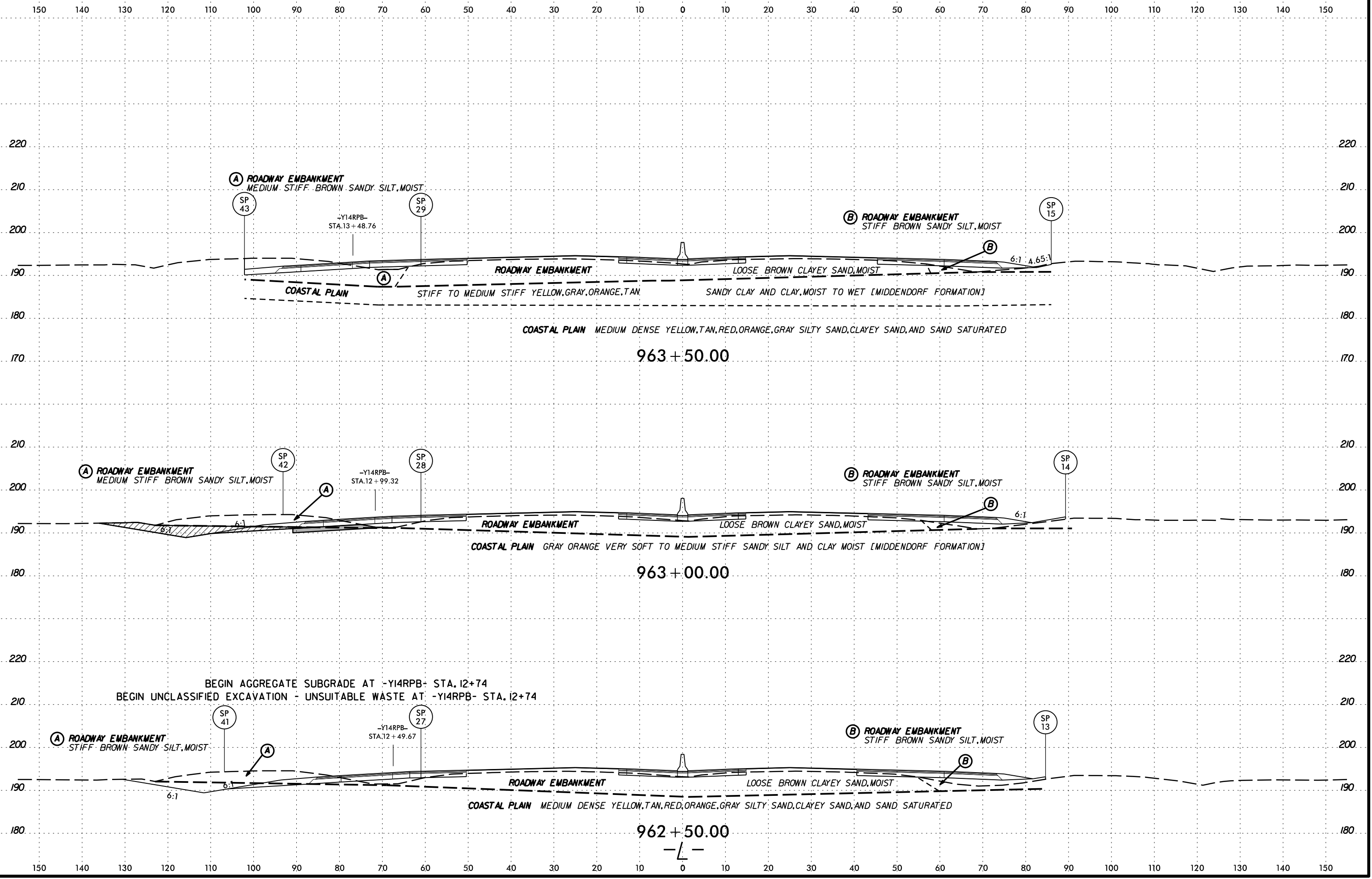
959 + 00.00

DATE PLOTTED: 6/23/16
SCALE: 1"=20'
DRAWN BY: J. BARRON
CHECKED BY: J. BARRON
APPROVED BY: J. BARRON

6/23/16

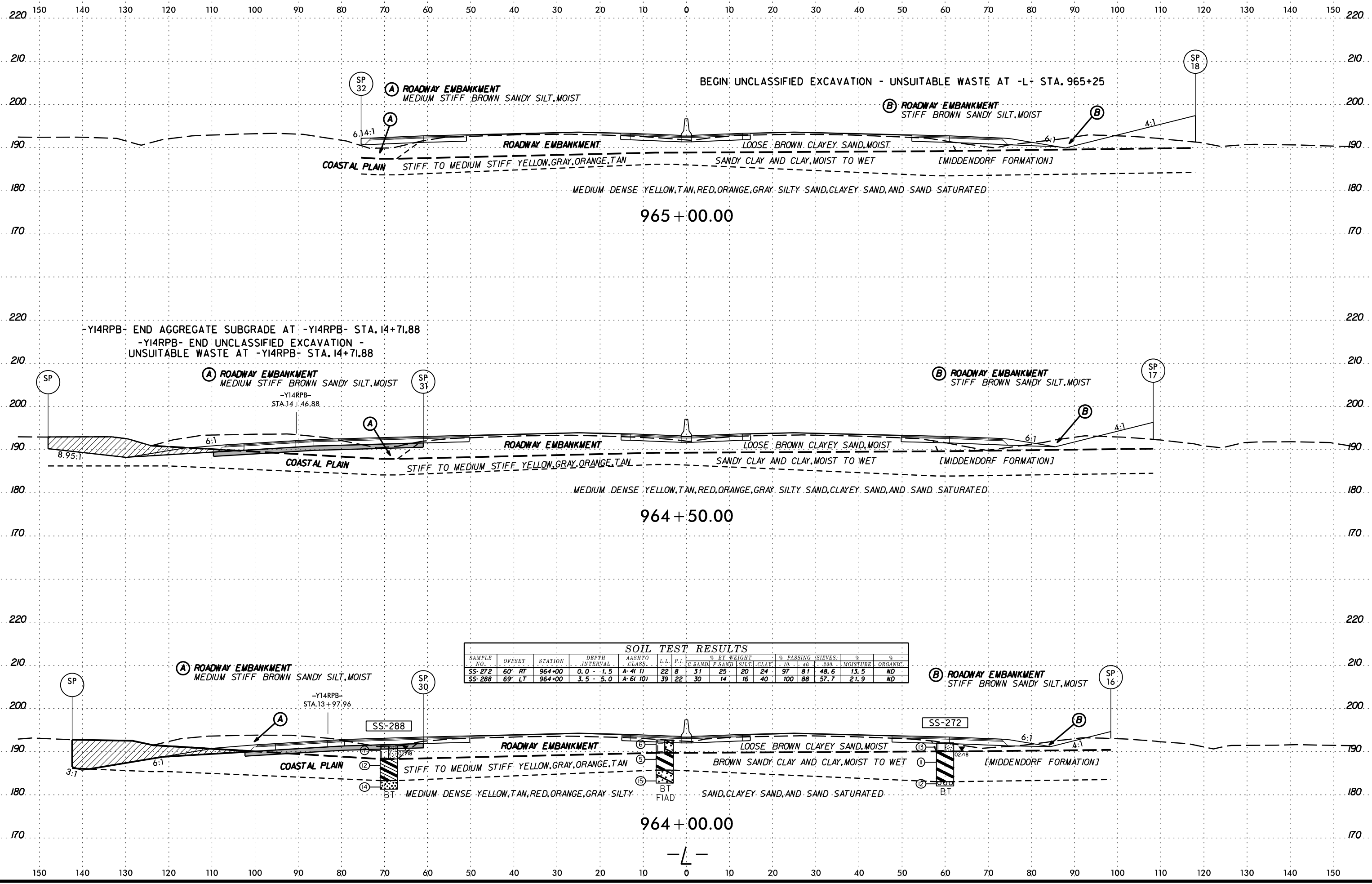


6/23/16

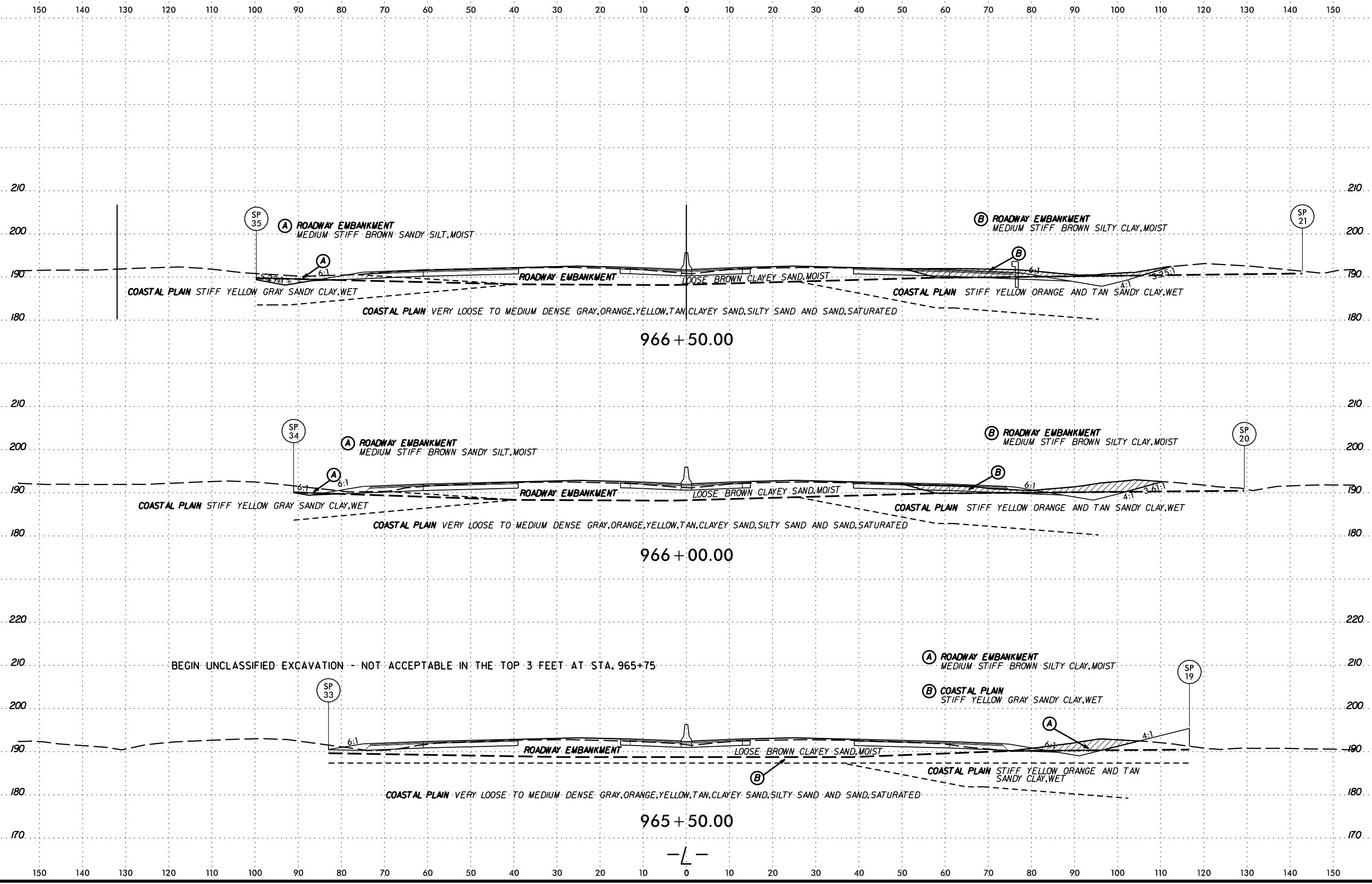


SCHEMATIC CROSS SECTION

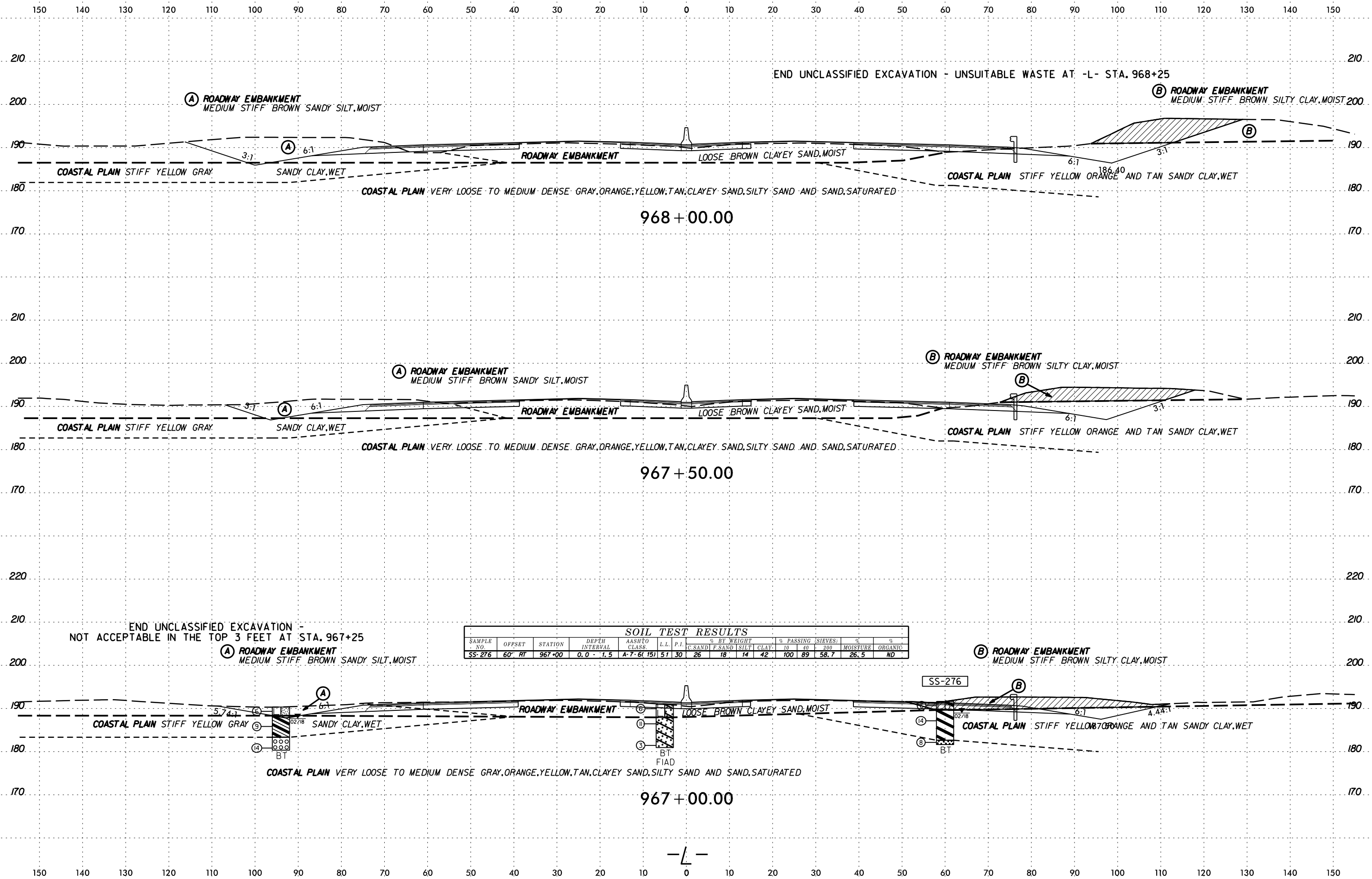
6/23/16



6/23/16



SCHEMATIC CONSTRUCTION

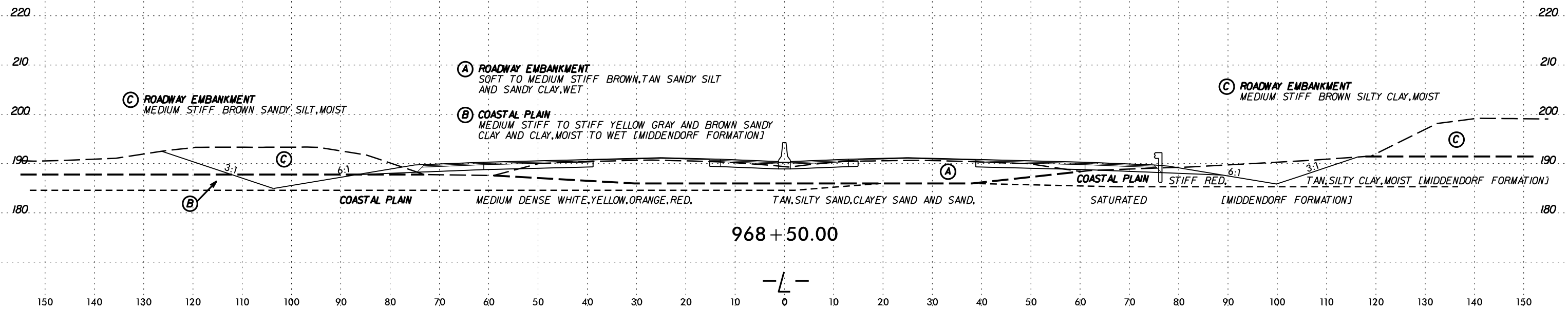


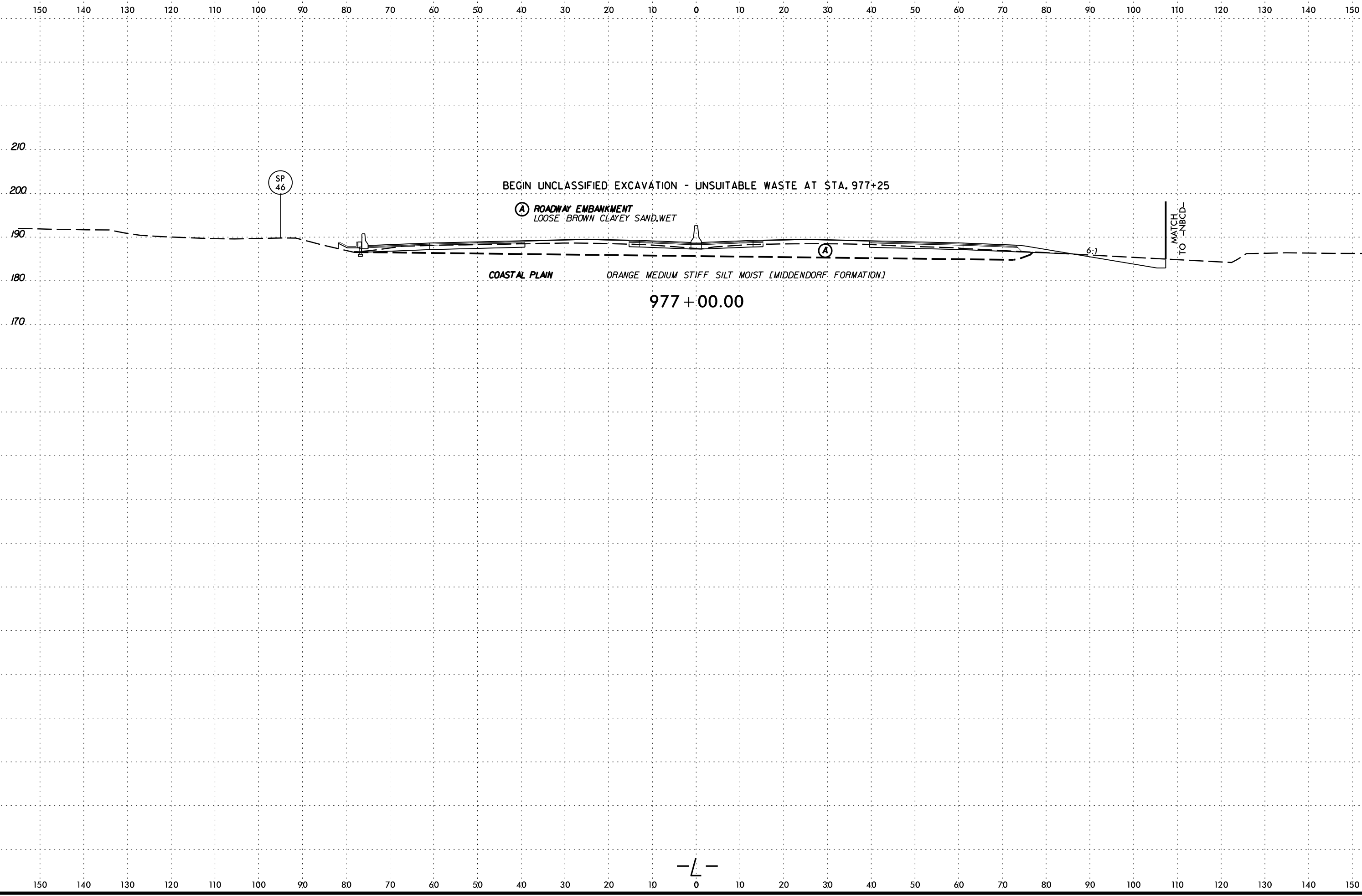
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	200			
SS-276	60' RT	967+00	0.0 - 1.5	A-7-B(15)	51	30	26	18	14	42	100	89	58.7	26.5	ND

SCHEMATIC CONSTRUCTION

6/23/16

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





BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 977+25

(A) ROADWAY EMBANKMENT
LOOSE BROWN CLAYEY SAND, WET

COASTAL PLAIN ORANGE MEDIUM STIFF SILT MOIST [MIDDENDORF FORMATION]

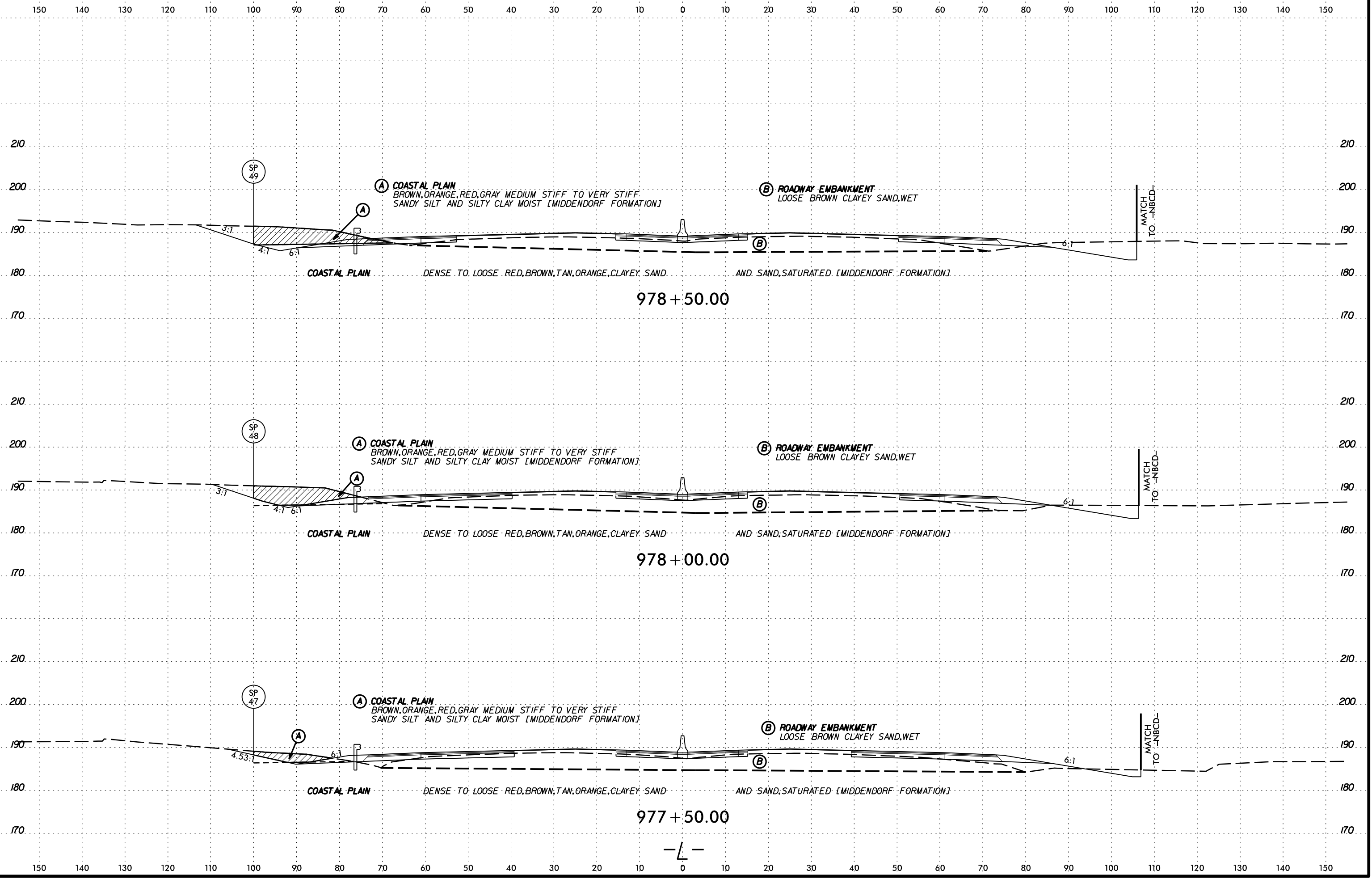
977 + 00.00

6:1

MATCH TO NBCD-

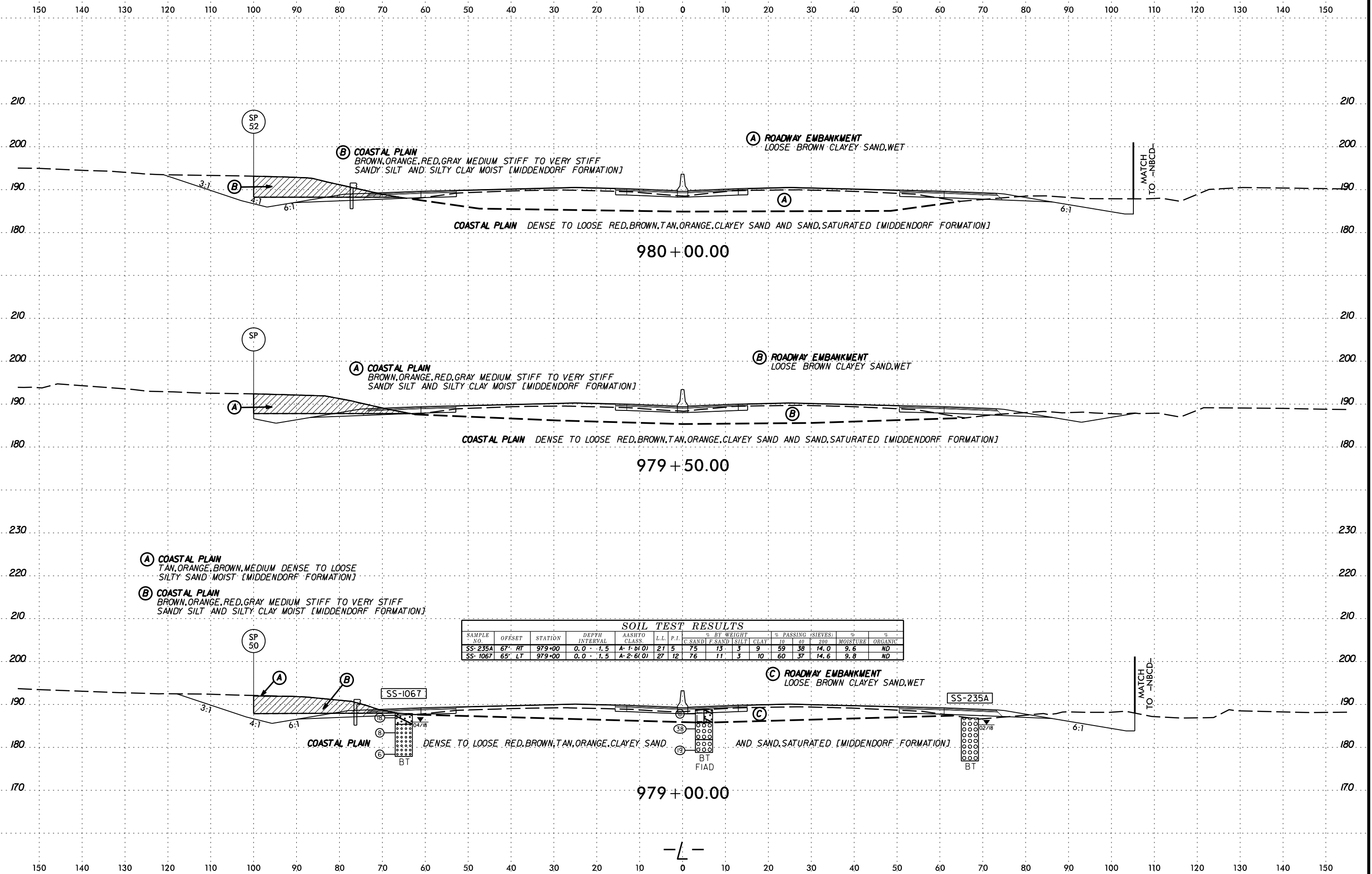
SP 46

DATE: 6/23/16
DRAWN BY: [unreadable]
CHECKED BY: [unreadable]
SCALE: AS SHOWN
SHEET NO.: 14 OF 14



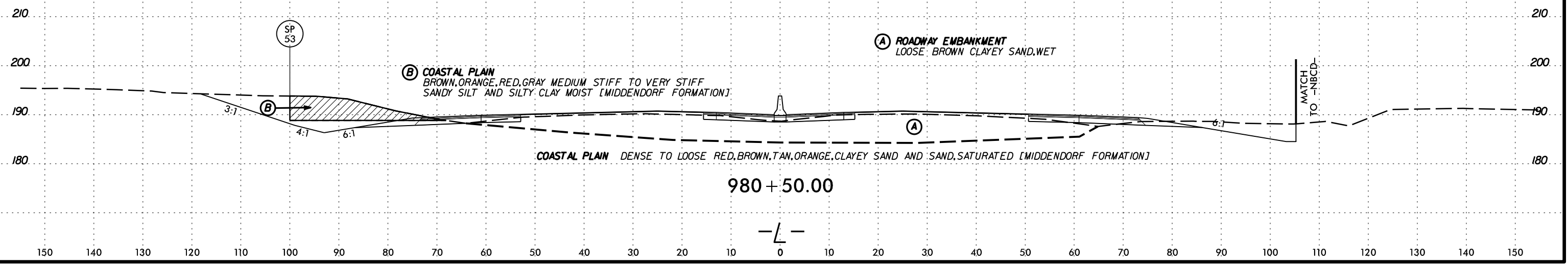
SYTIME
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6/23/16

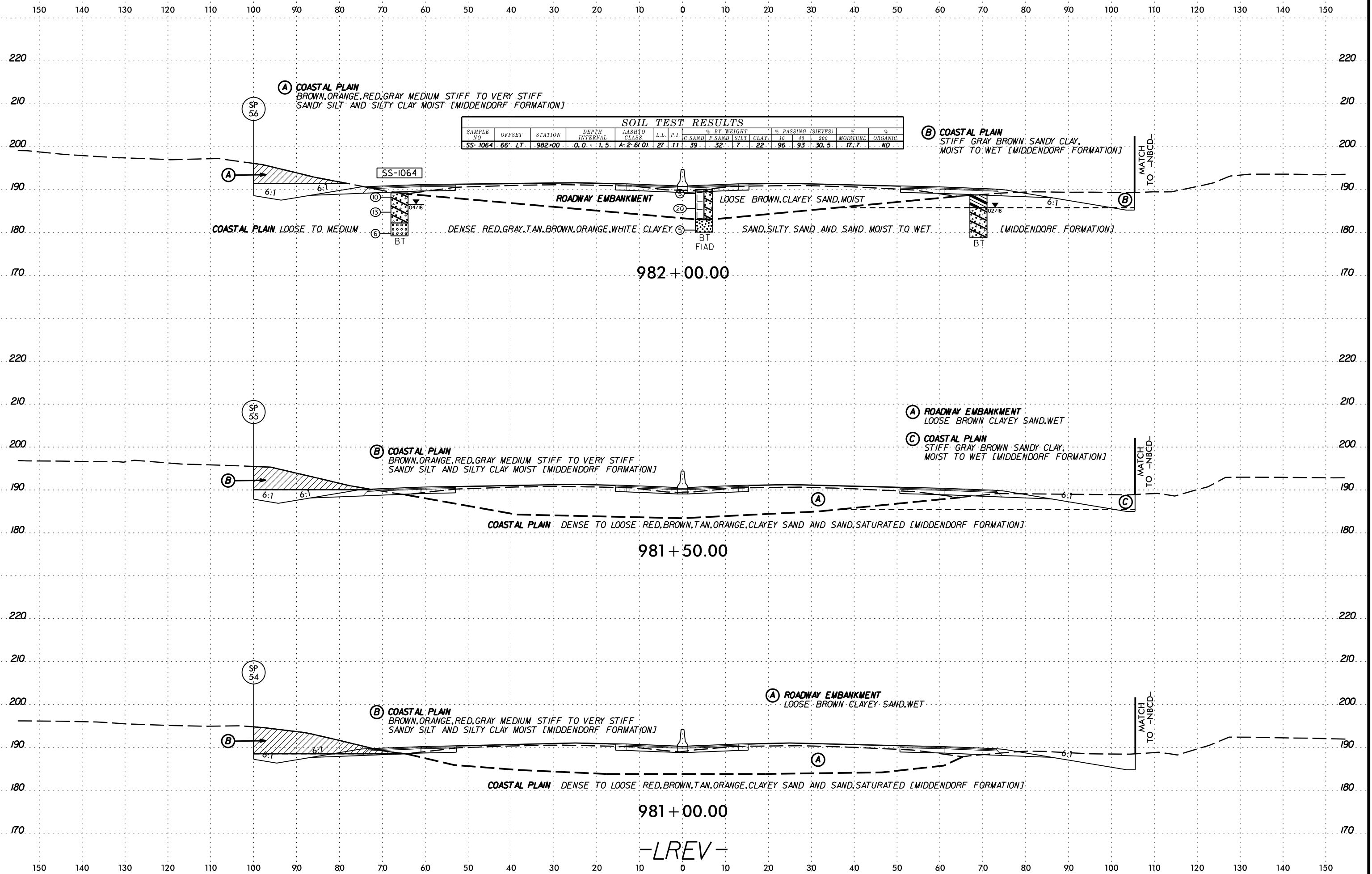


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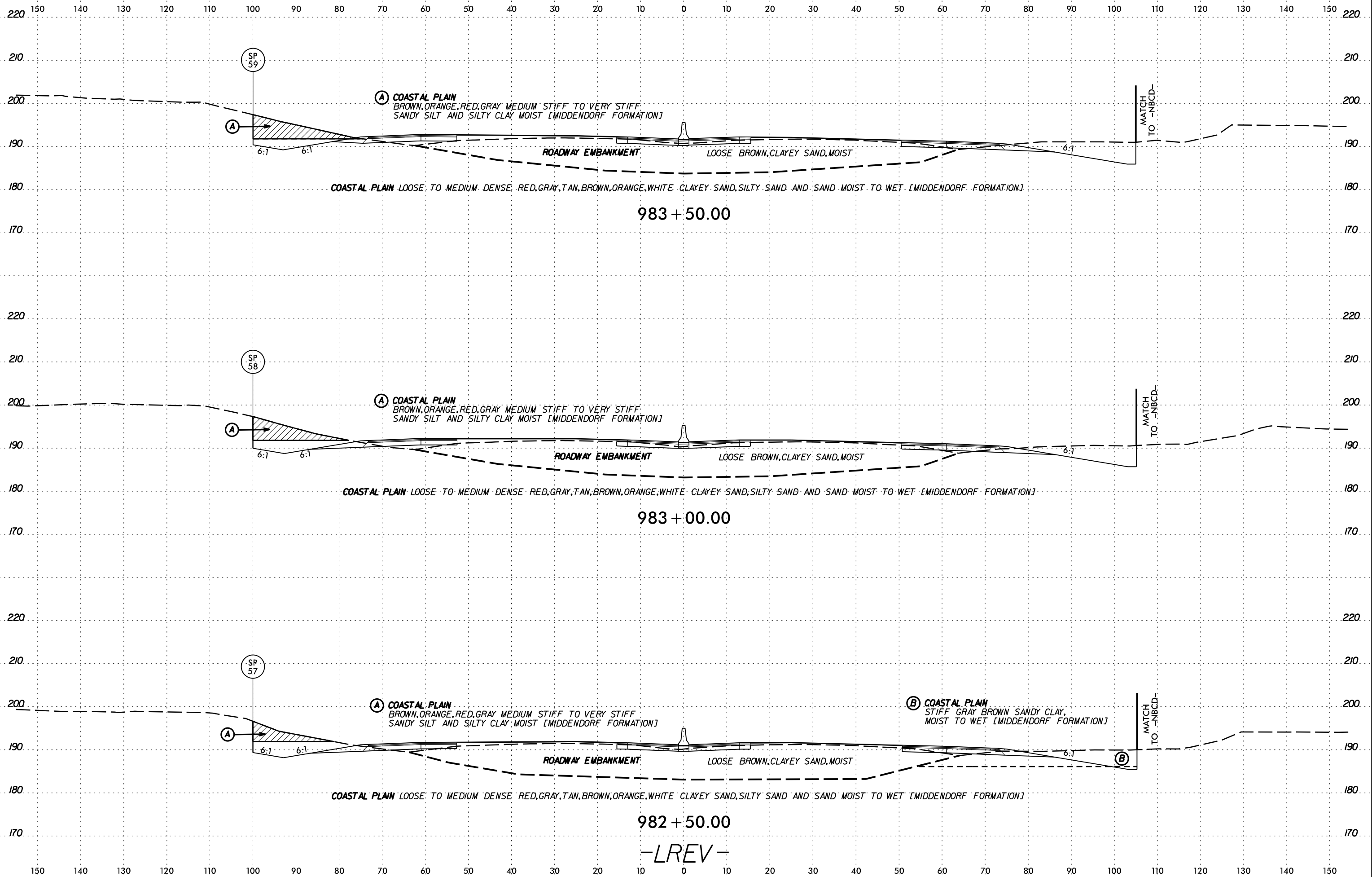


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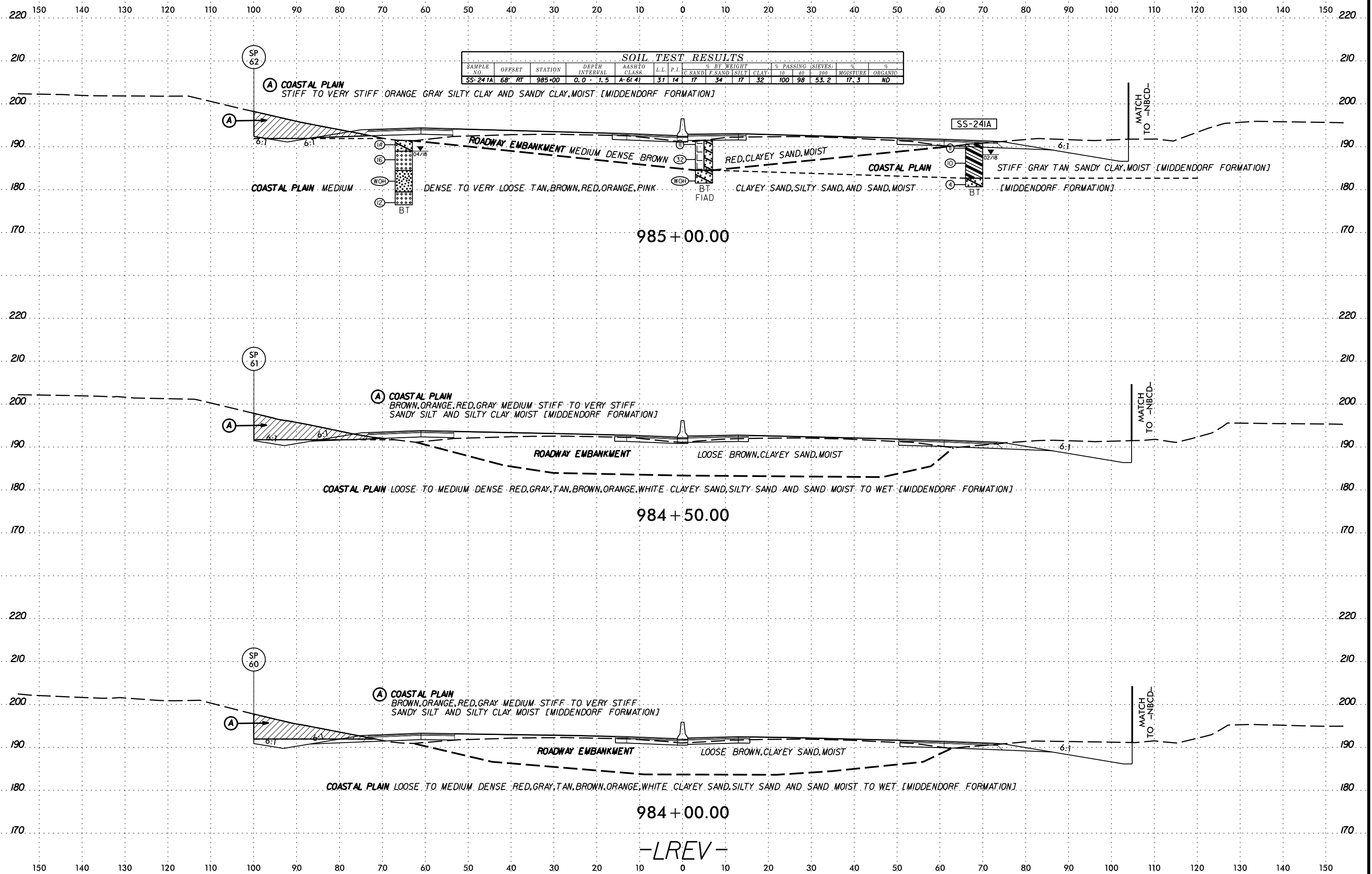


-LREV-

6/23/16

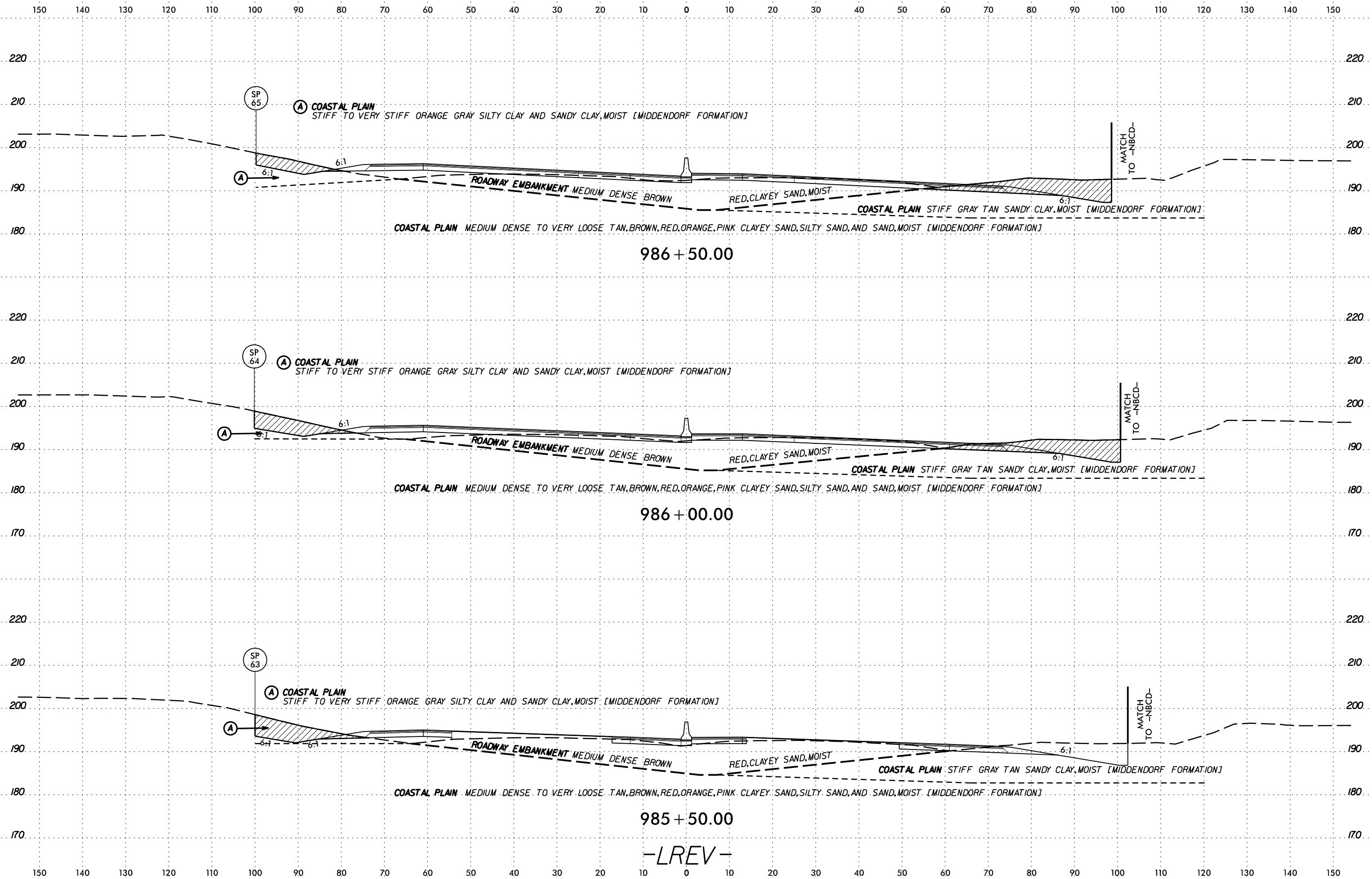


6/23/16



-LREV-

6/23/16



986 + 50.00

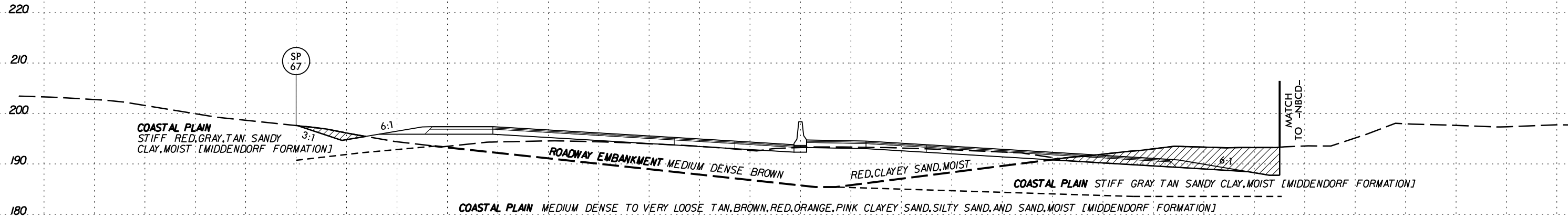
986 + 00.00

985 + 50.00

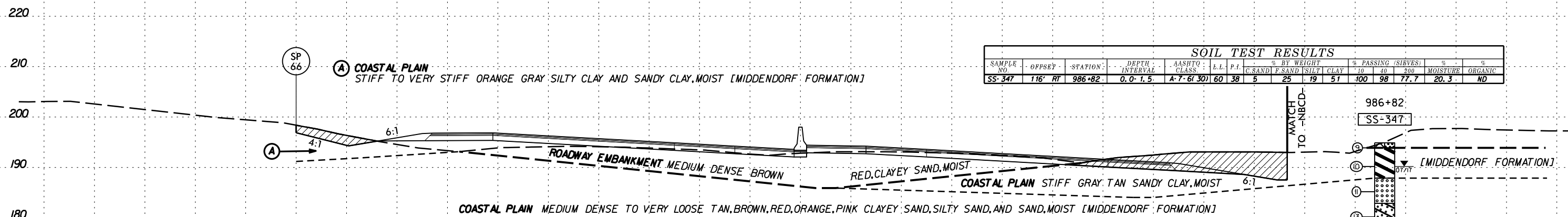
-LREV-

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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



987 + 50.00



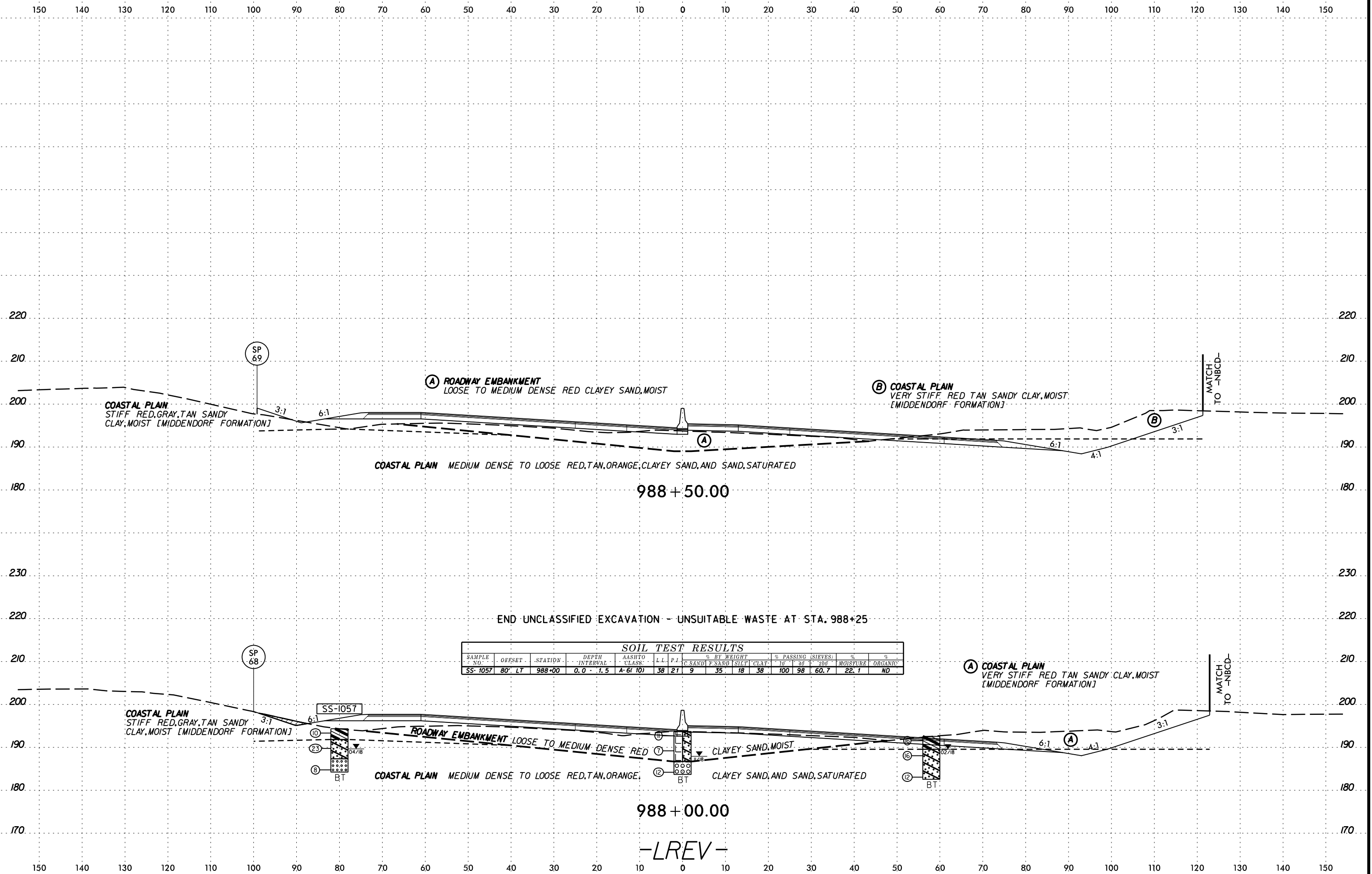
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-LREV-

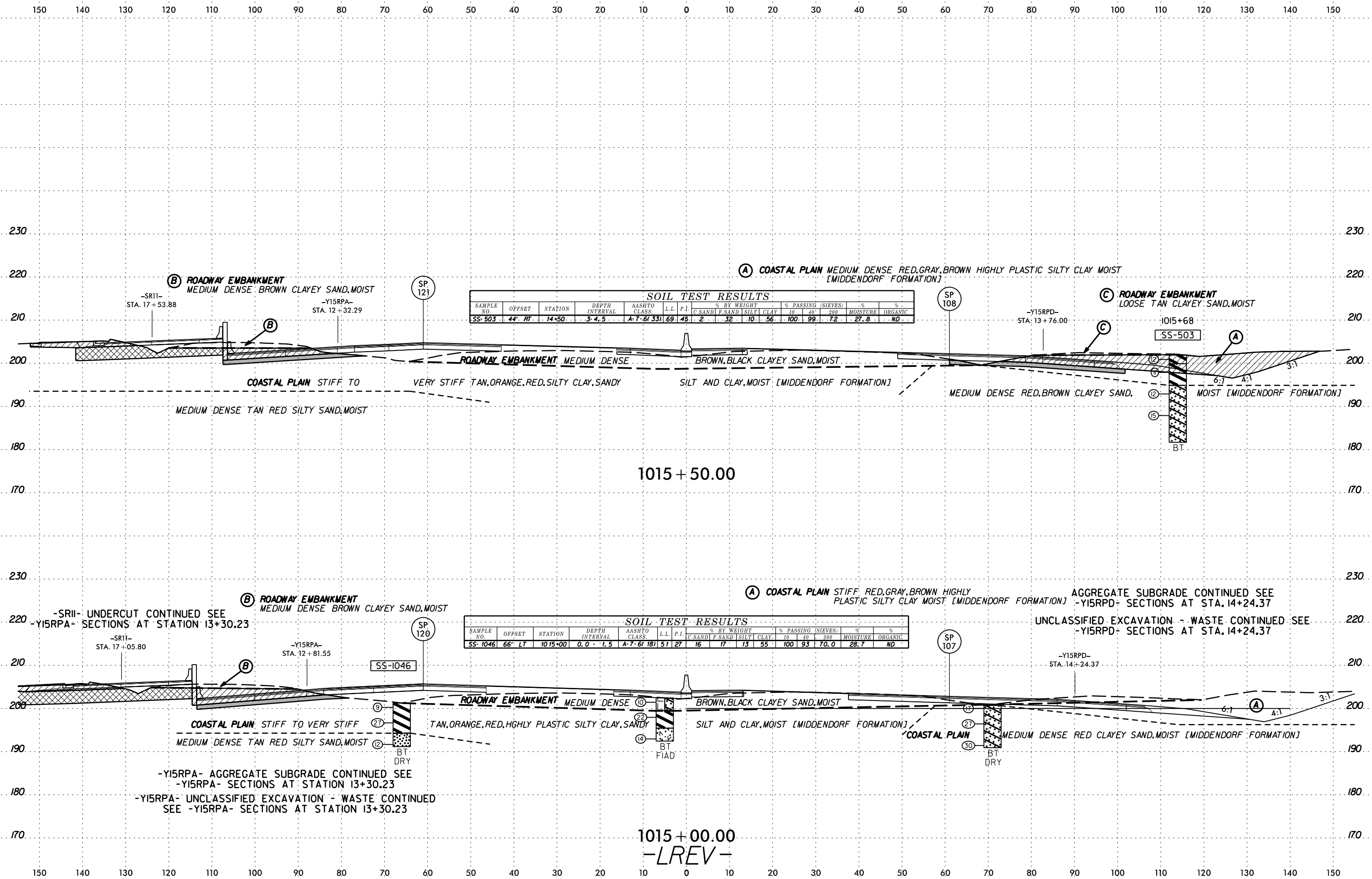
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			MOISTURE	ORGANIC	
							C. SAND	F. SAND	SILT CLAY	#10	#40	#200			
SS-347	116'	RT 986+82	0.0-1.5	A-7-61	60	38	5	25	19	51	100	98	77.7	20.3	ND

SCALE: 1" = 10' VERTICAL SCALE: 1" = 10'

6/23/16

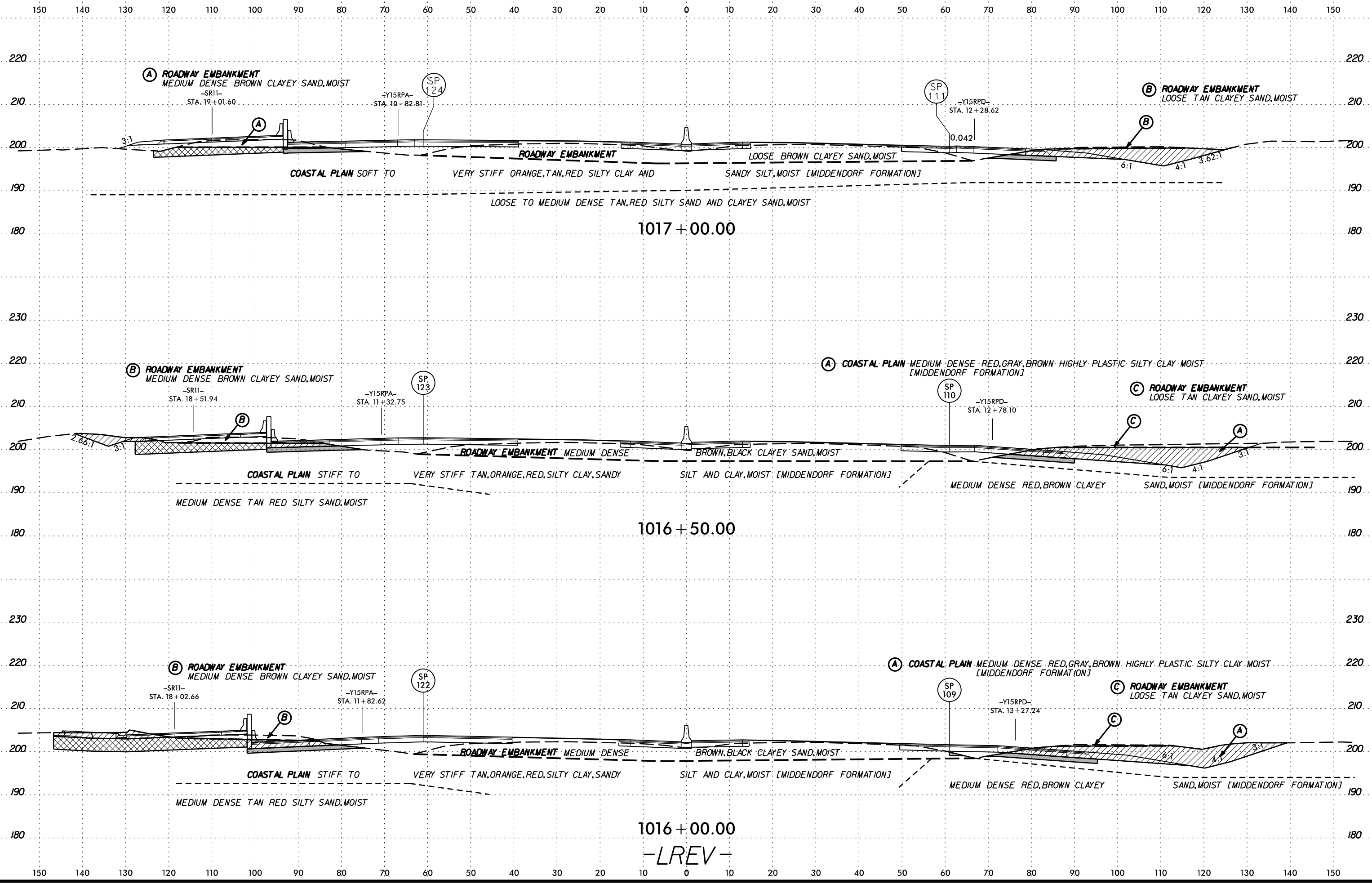


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)			% MOISTURE	% ORGANIC	
							C SAND	F SAND	SILT CLAY	10	30	200			
SS-1057	80' LT	988+00	0.0 - 1.5	A-6(10)	38	21	9	35	18	38	100	98	60.7	22.1	ND



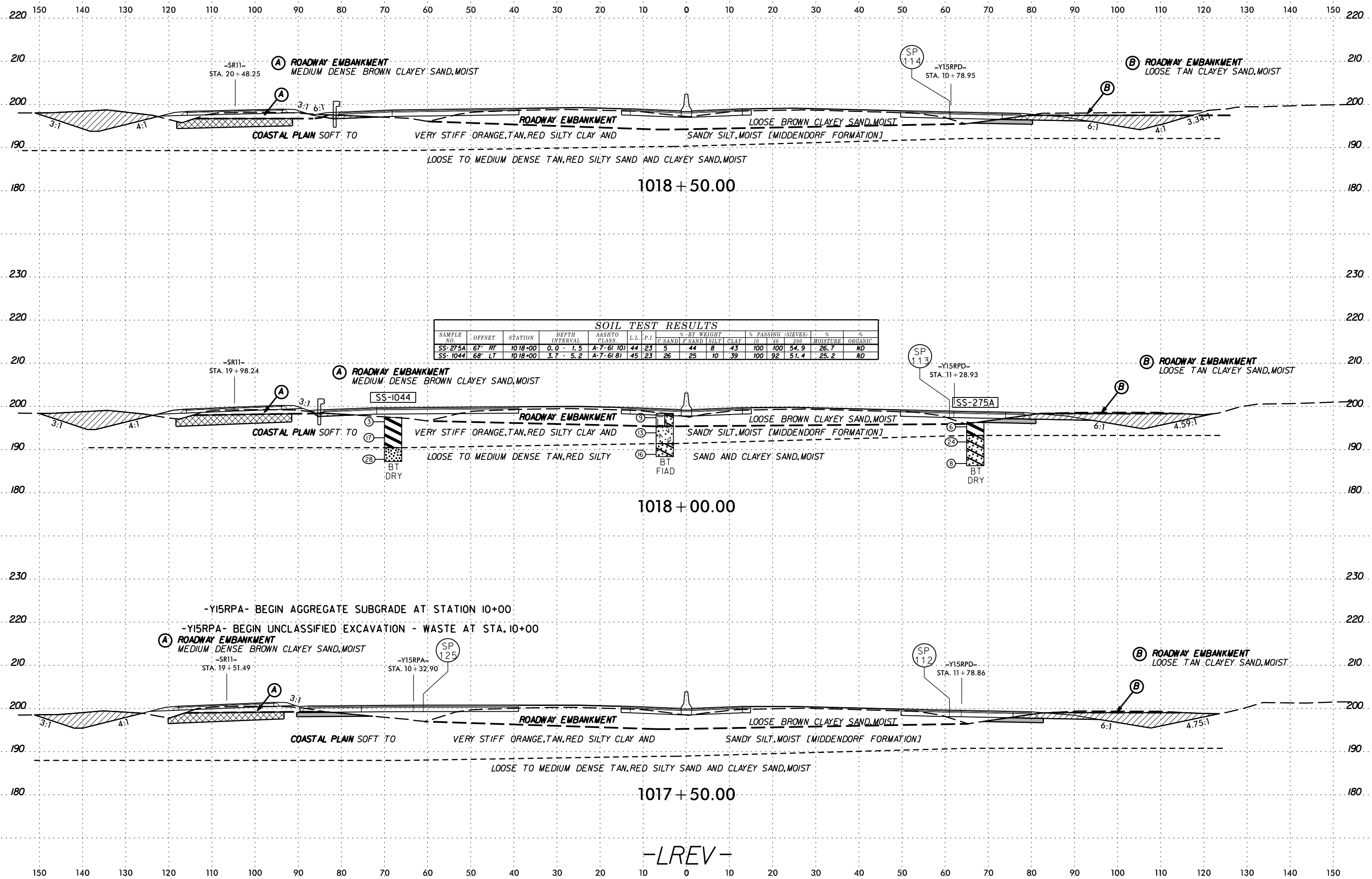
SECTION 1015+00.00 TO 1015+50.00

6/23/16



SCHEMATIC CONSTRUCTION

1016+00.00
-LREV-



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							G. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-275A	67' RT	1018+00	0.0 - 1.5	A-7-6(10)	44	23	5	44	8	43	100	100	54.9	26.7	ND
SS-1044	68' LT	1018+00	3.7 - 5.2	A-7-6(8)	45	23	26	25	10	39	100	92	51.4	25.2	ND

-Y15RPA- BEGIN AGGREGATE SUBGRADE AT STATION 10+00
 -Y15RPA- BEGIN UNCLASSIFIED EXCAVATION - WASTE AT STA. 10+00

1018 + 50.00

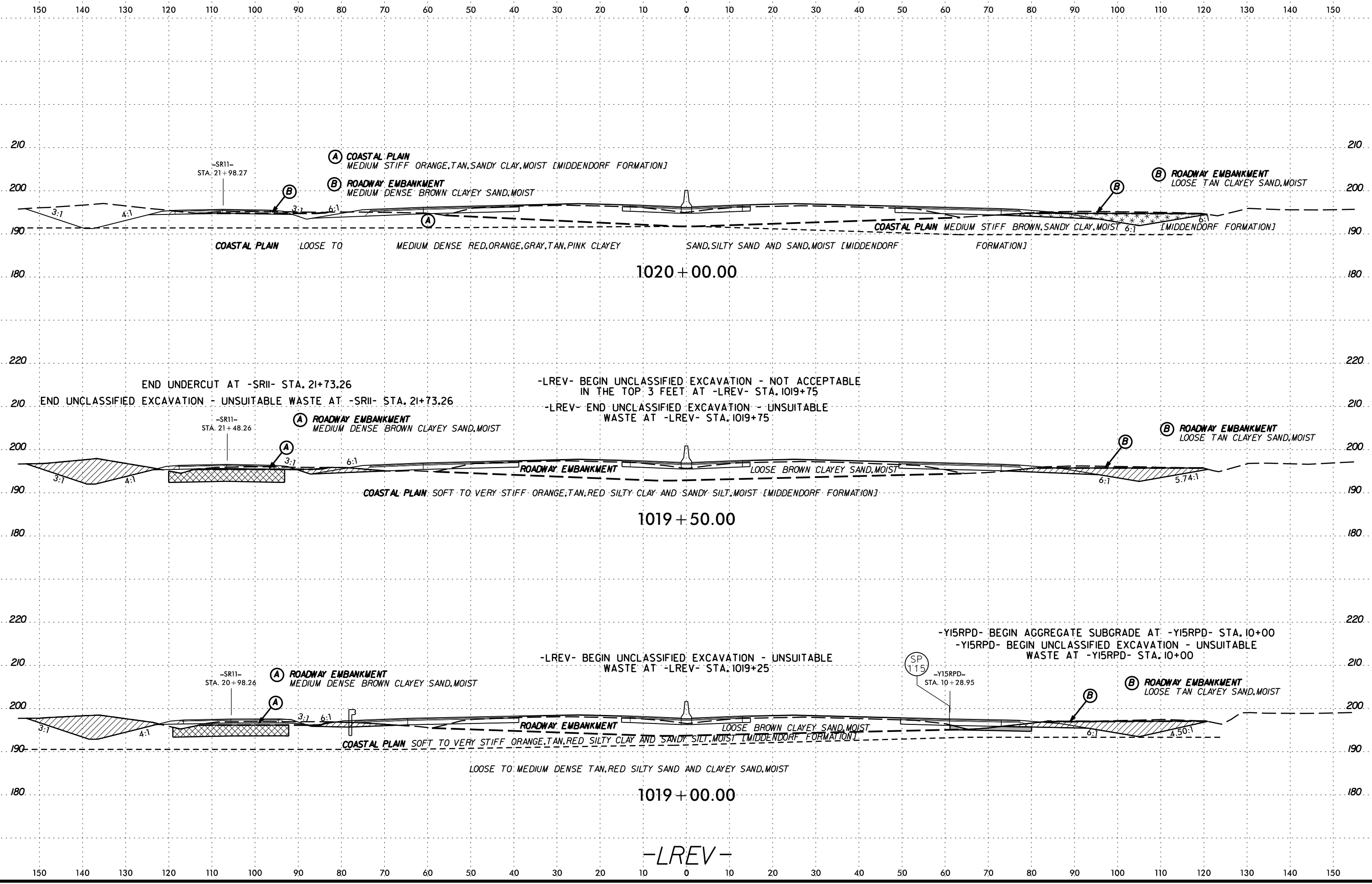
1018 + 00.00

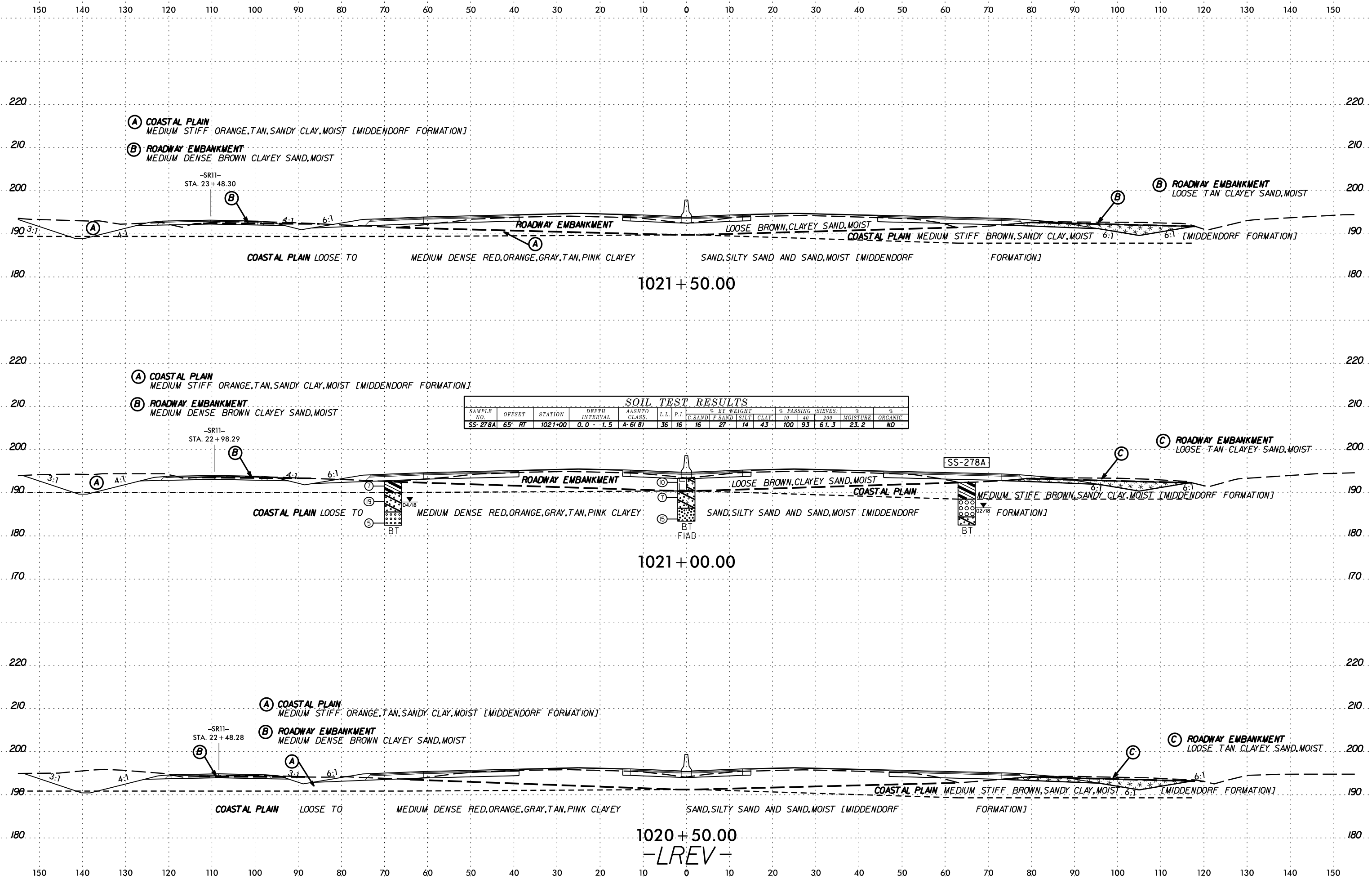
1017 + 50.00

-LREV-

SCHEMATIC DEVELOPMENT BY J. W. BRYAN

6/23/16





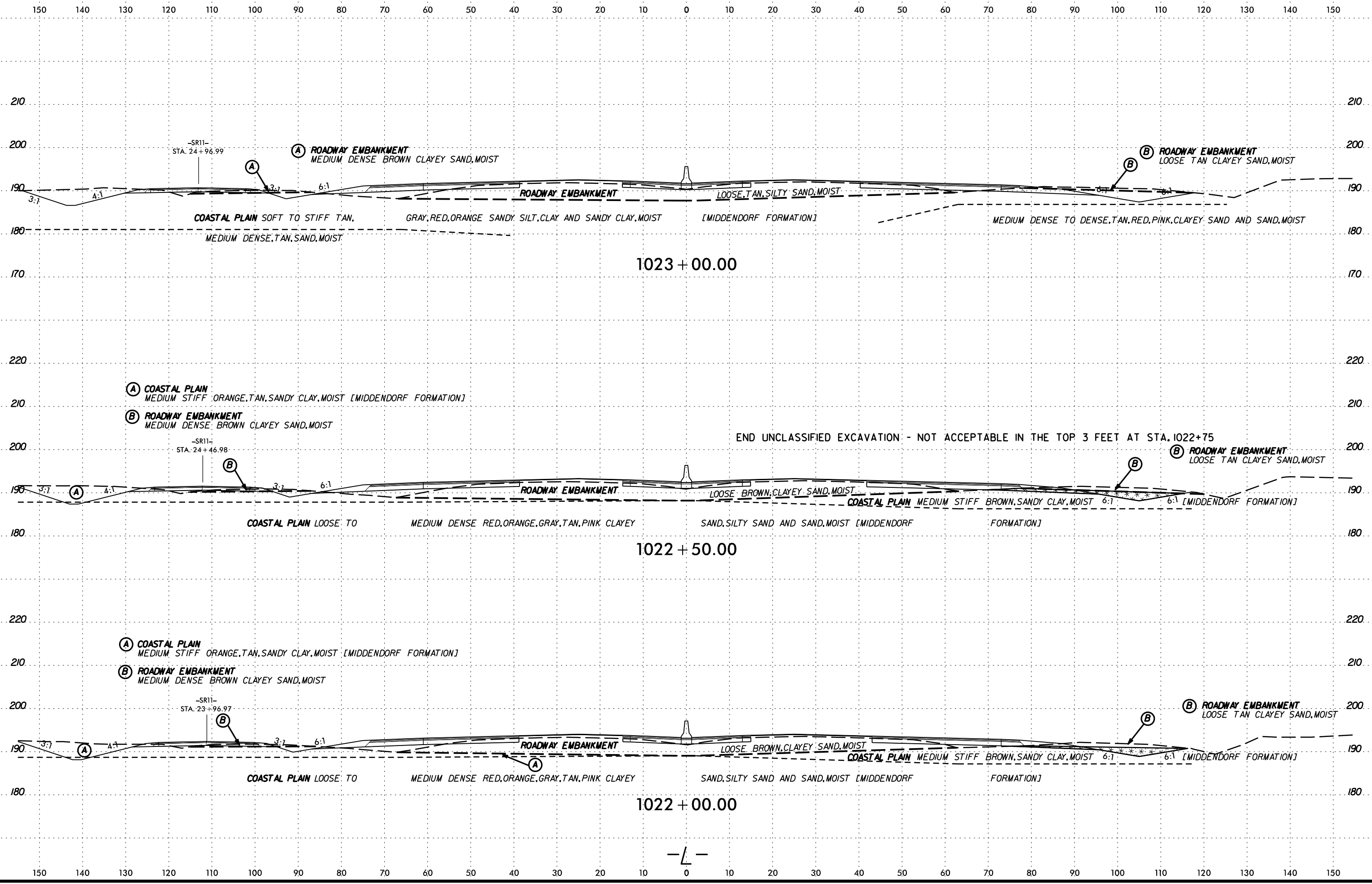
SOIL TEST RESULTS

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-278A	65' RT	1021+00	0.0 - 1.5	A-6(8)	36	16	16	27	14	43	100	93	61.3	23.2	ND

SYSTEMS DESIGN
 CONSULTING
 INCORPORATED
 10000 JEFFERSON
 AVENUE
 SUITE 100
 FORT COLLINS, CO 80526
 970.226.8800
 www.systemsdesign.com

1020+50.00
-LREV-

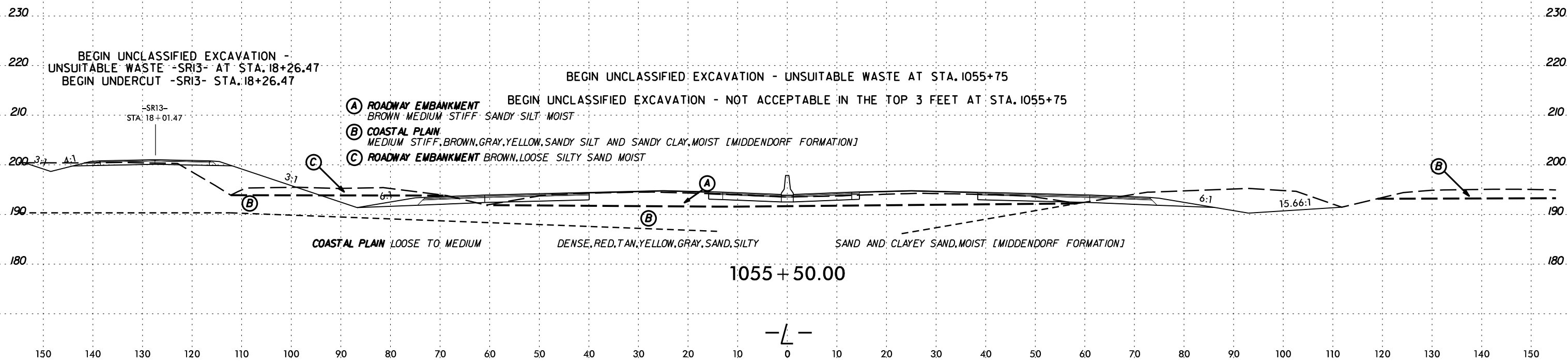
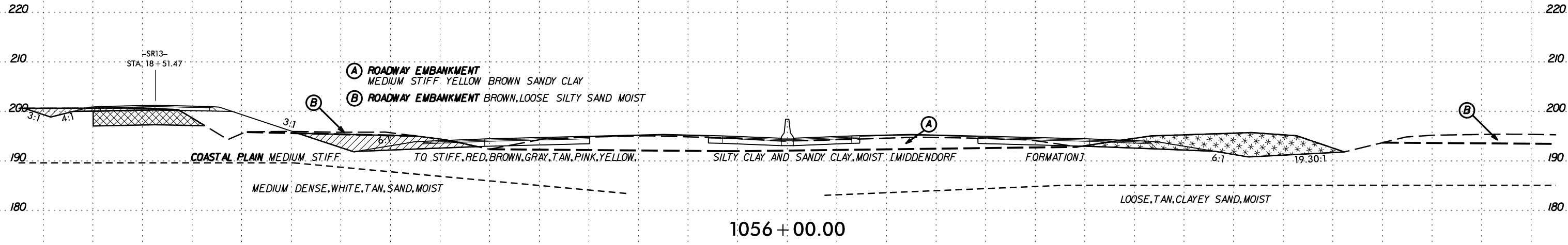
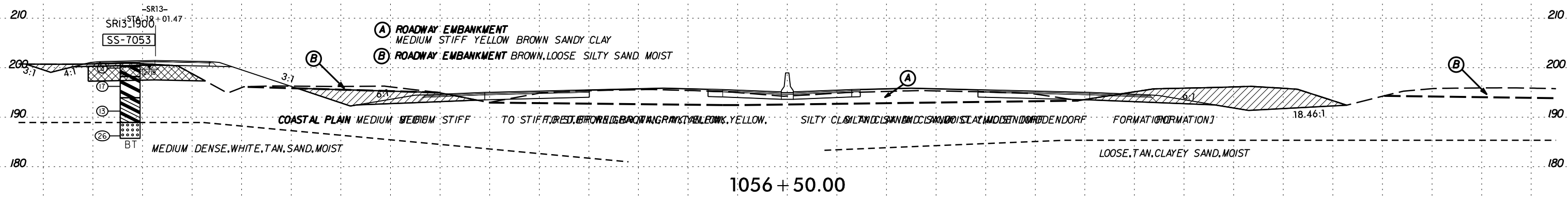
6/23/16



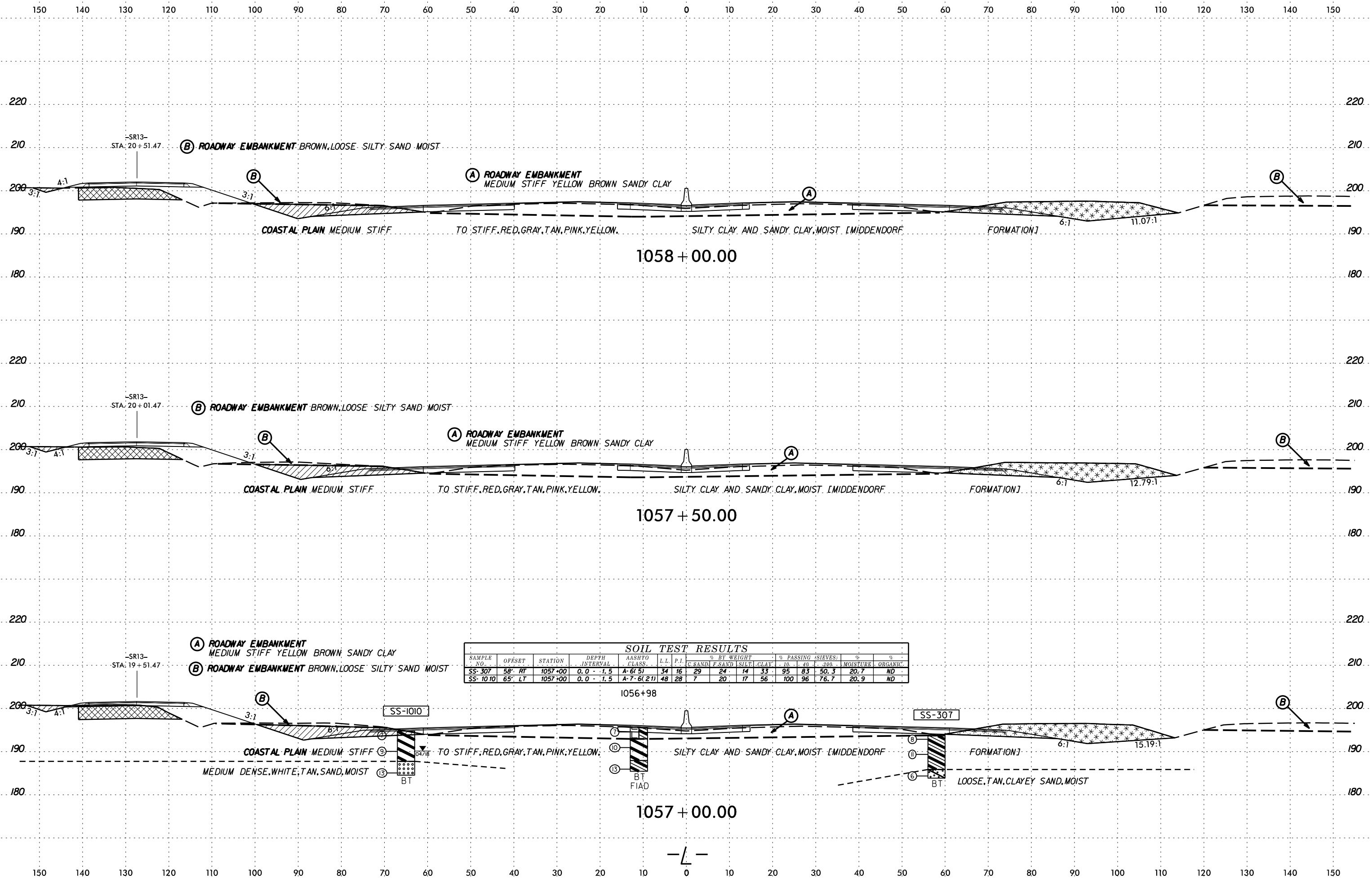
DATE: 6/23/16
DRAWN BY: J. B. BRYAN
CHECKED BY: J. B. BRYAN
SCALE: AS SHOWN
PROJECT: I-5986B
SHEET: 29

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.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
SS-7053	5' LT	19+00	3.7-5.2	A-7.5(6)	49	15	C SAND	F SAND	SILT	CLAY	10	40	200		
							22	28	6	44	100	92	52.7	23.0	ND



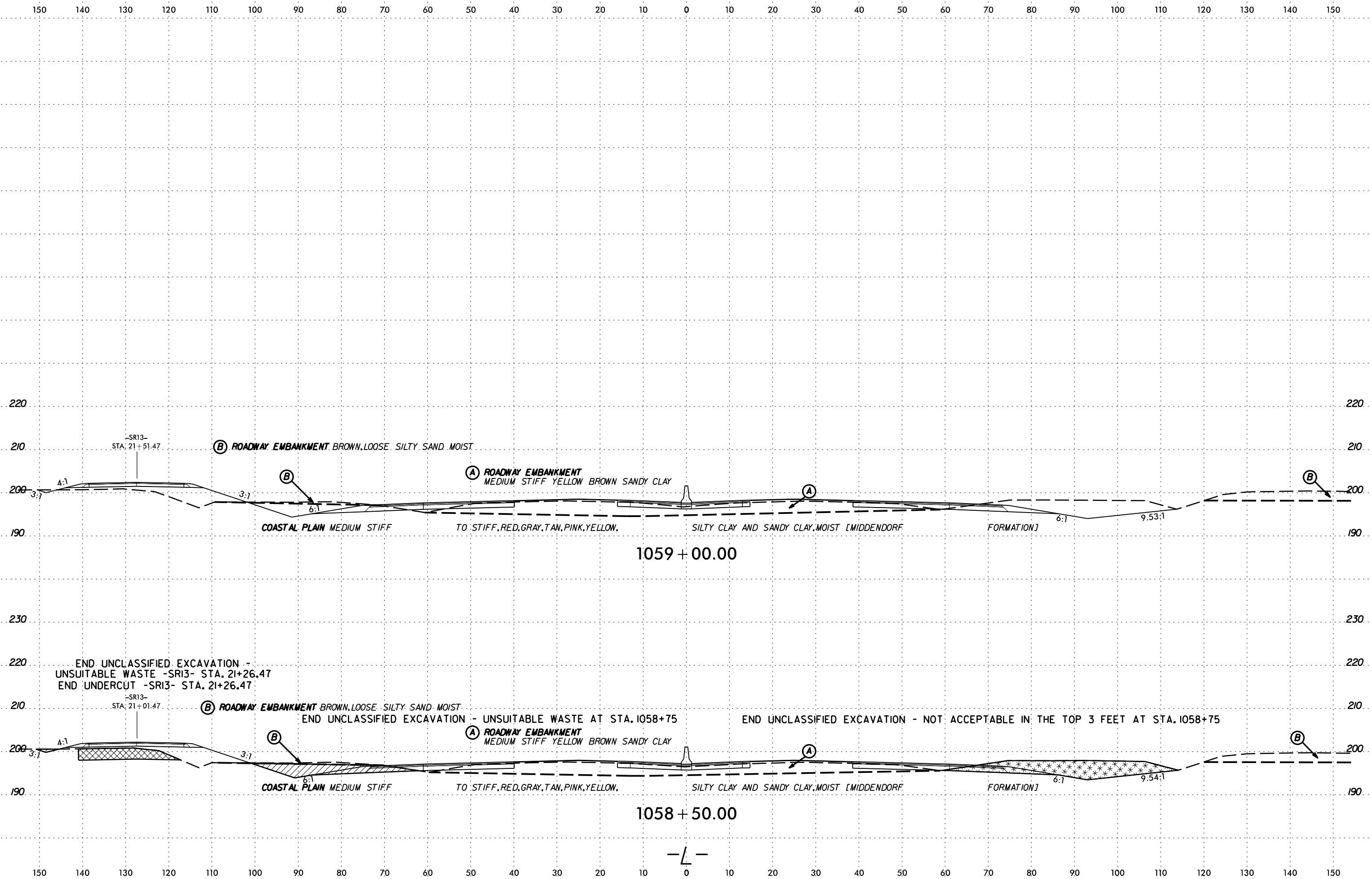
DATE: 6/23/16
DRAWN BY: J. BARRON
CHECKED BY: J. BARRON
SCALE: AS SHOWN



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT					% MOISTURE	% ORGANIC		
							G SAND	F SAND	SILT	CLAY	10			40	200
SS-307	58' RT	1057+00	0.0 - 1.5	A-6(5)	34	16	29	24	14	33	95	83	50.3	20.7	ND
SS-1010	65' LT	1057+00	0.0 - 1.5	A-7-6(21)	48	28	7	20	17	56	100	96	76.7	20.9	ND

SCHEMATIC CROSS SECTION

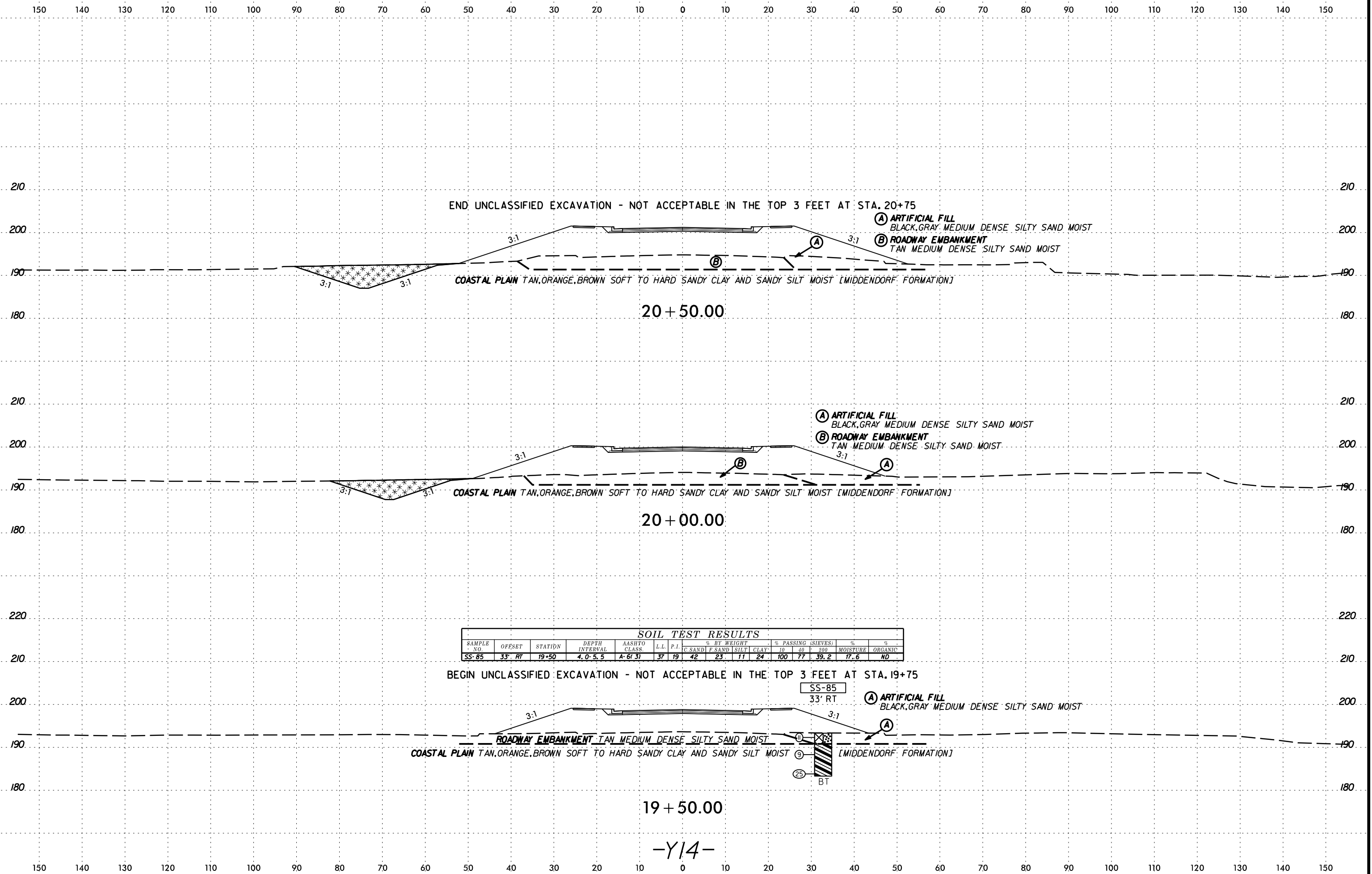
6/23/16



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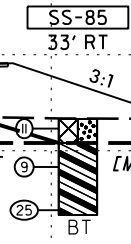
6/23/16



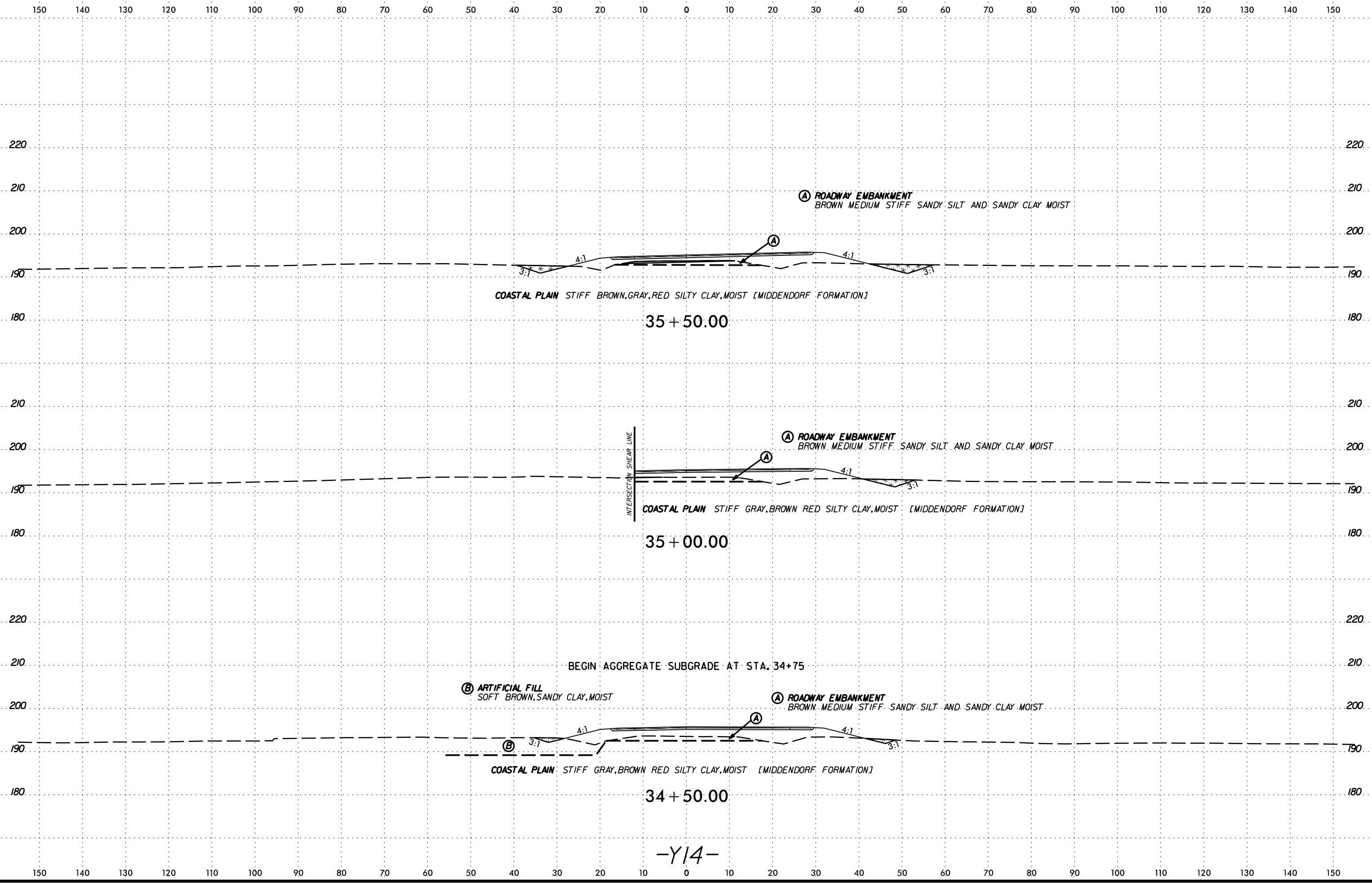
SOIL TEST RESULTS

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-85	33' RT	19+50	4.0-5.5	A-6(3)	37	19	42	23	11	24	100	77	39.2	17.6	ND

BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 19+75



6/23/16



COASTAL PLAIN STIFF BROWN,GRAY,RED SILTY CLAY,MOIST [MIDDENDORF FORMATION]

35 + 50.00

(A) ROADWAY EMBANKMENT
BROWN MEDIUM STIFF SANDY SILT AND SANDY CLAY MOIST

INTERSECTION SHEAR LINE

COASTAL PLAIN STIFF GRAY,BROWN RED SILTY CLAY,MOIST [MIDDENDORF FORMATION]

35 + 00.00

(A) ROADWAY EMBANKMENT
BROWN MEDIUM STIFF SANDY SILT AND SANDY CLAY MOIST

BEGIN AGGREGATE SUBGRADE AT STA. 34+75

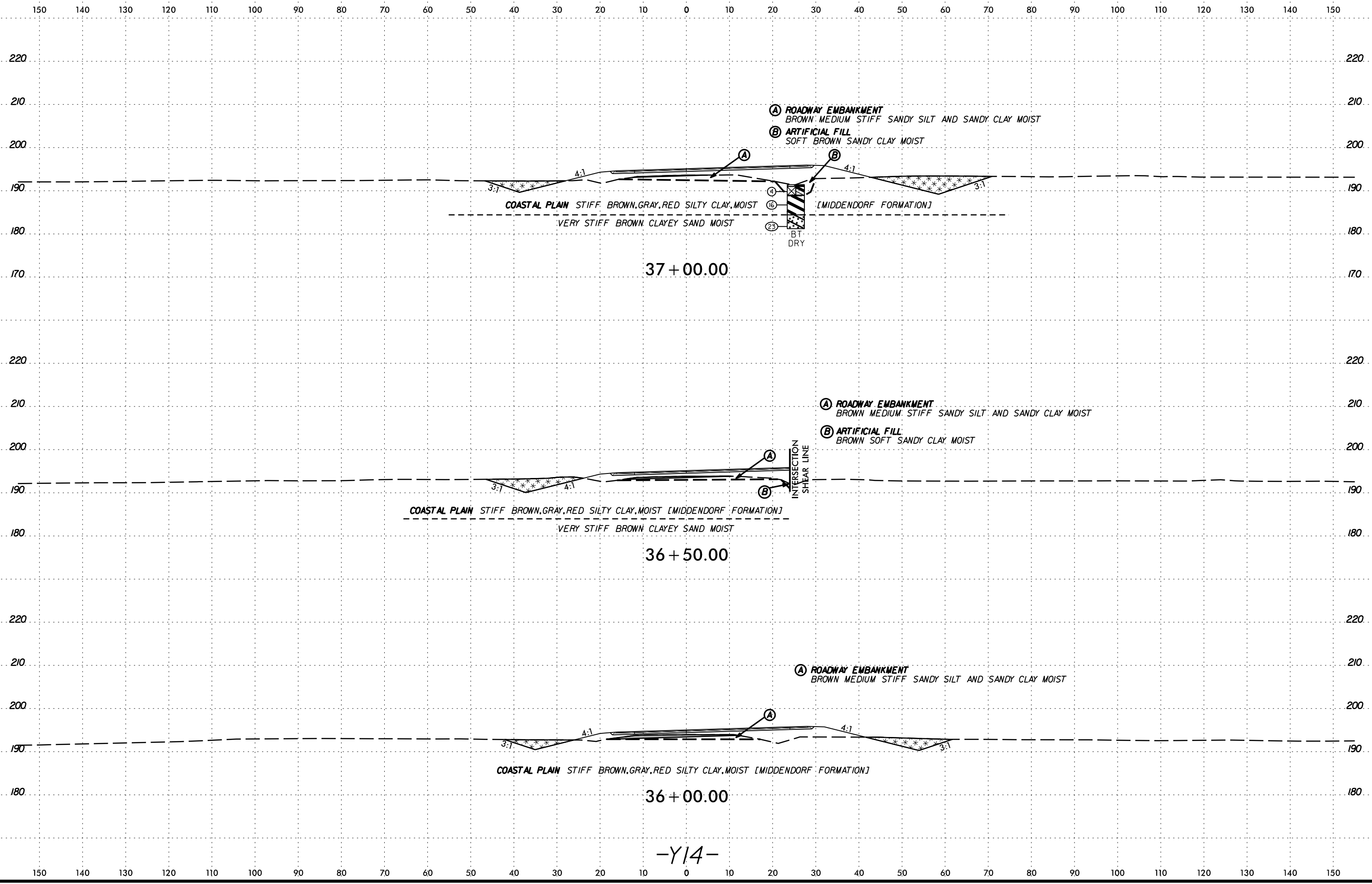
(B) ARTIFICIAL FILL
SOFT BROWN,SANDY CLAY,MOIST

COASTAL PLAIN STIFF GRAY,BROWN RED SILTY CLAY,MOIST [MIDDENDORF FORMATION]

34 + 50.00

-Y14-

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37 + 00.00

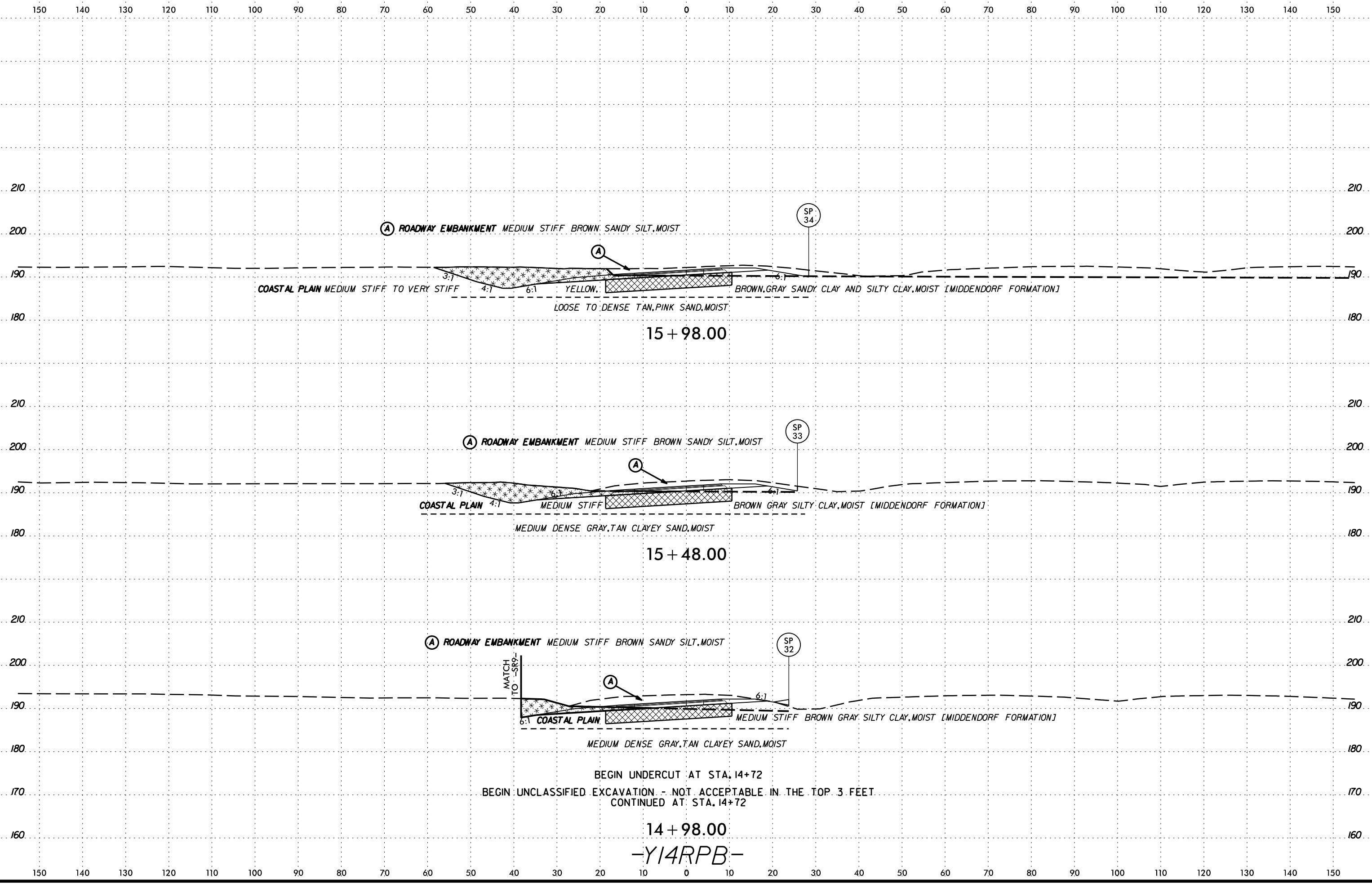
36 + 50.00

36 + 00.00

-Y14-

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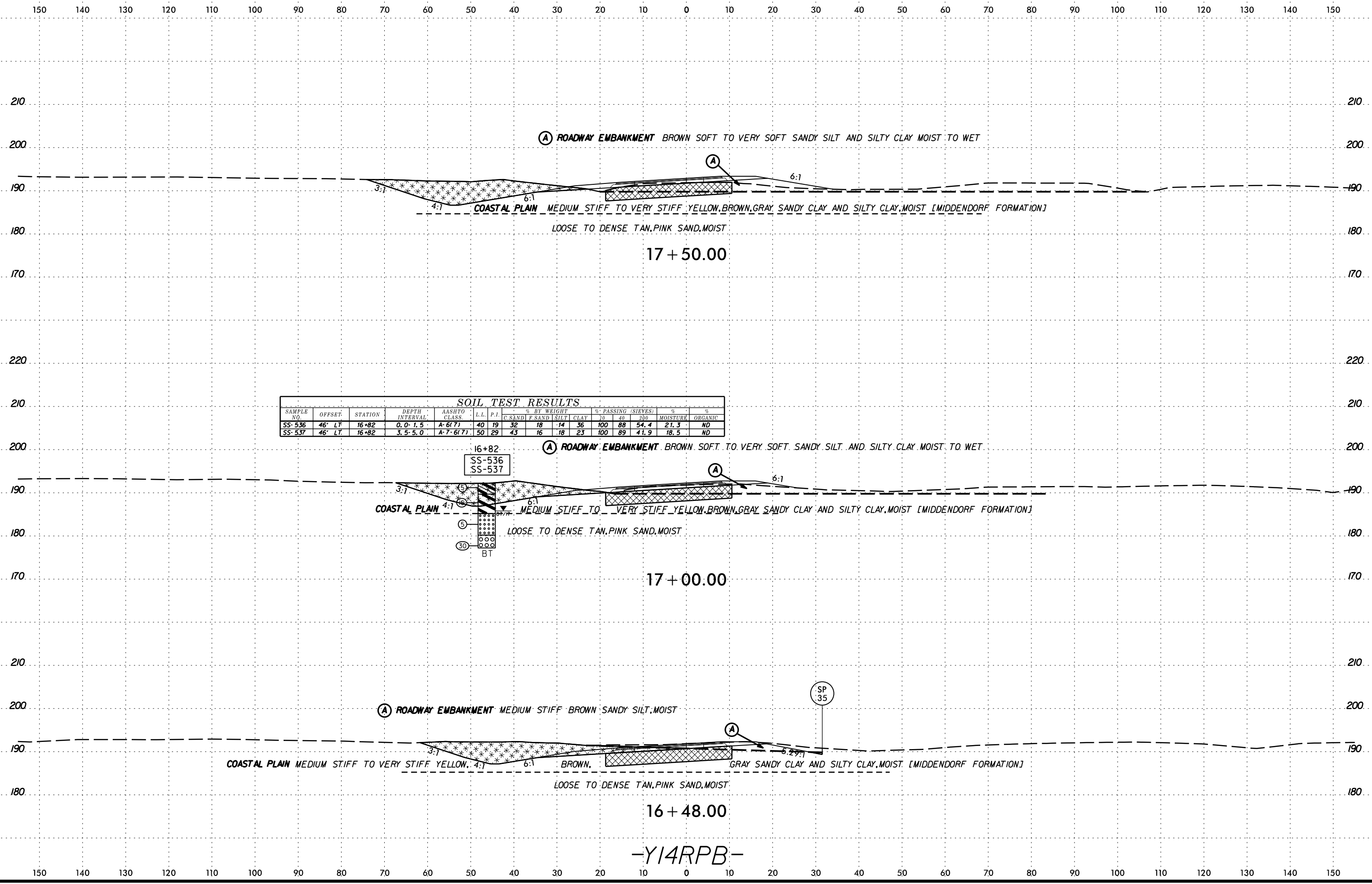
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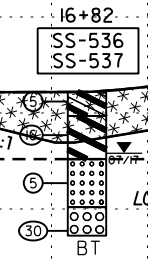
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14 + 98.00
-Y14RPB-

6/23/16

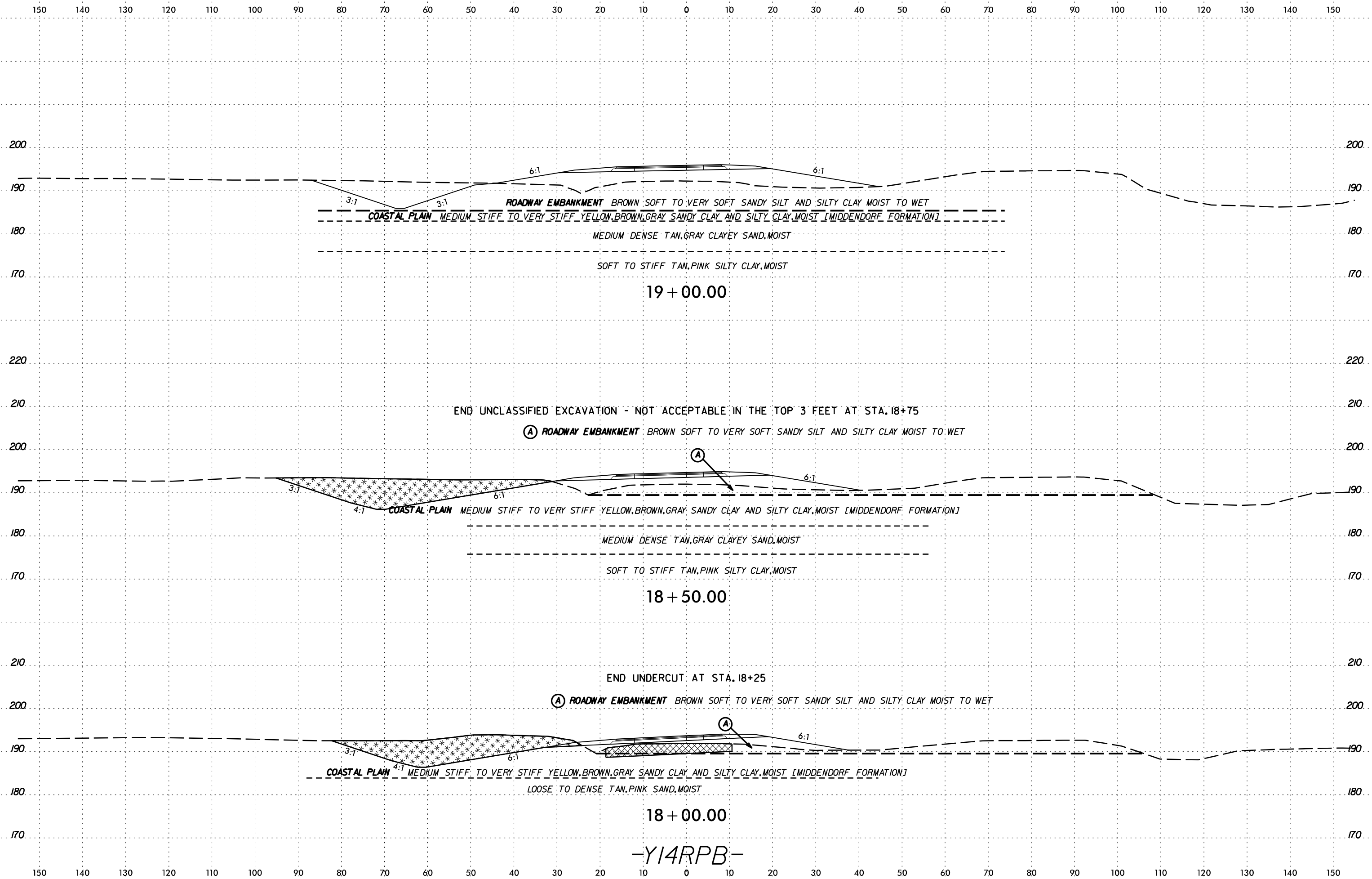


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-536	46' LT	16+82	0.0-1.5	A-6(7)	40	19	32	18	14	36	100	88	54.4	21.3	ND
SS-537	46' LT	16+82	3.5-5.0	A-7-6(7)	50	29	43	16	18	23	100	89	41.9	18.5	ND



-YI4RPB-

6/23/16



19 + 00.00

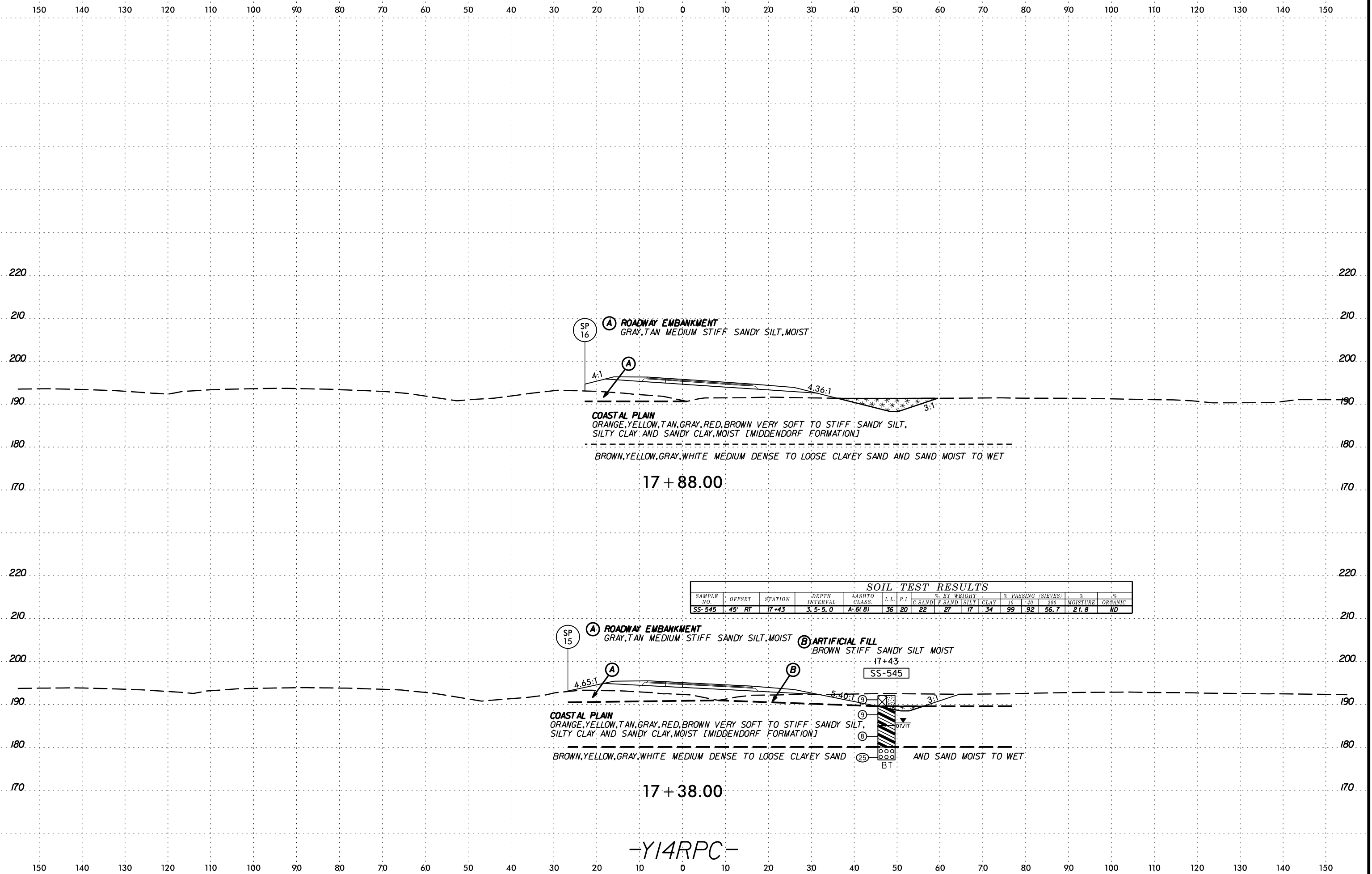
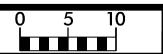
18 + 50.00

18 + 00.00

-Y14RPB-

DATE: 6/23/16
DRAWN BY: J. BRYAN
CHECKED BY: J. BRYAN
SCALE: AS SHOWN

6/23/16



SP 16 (A) ROADWAY EMBANKMENT
GRAY, TAN MEDIUM STIFF SANDY SILT, MOIST

COASTAL PLAIN
ORANGE, YELLOW, TAN, GRAY, RED, BROWN VERY SOFT TO STIFF SANDY SILT,
SILTY CLAY AND SANDY CLAY, MOIST [MIDDENDORF FORMATION]
BROWN, YELLOW, GRAY, WHITE MEDIUM DENSE TO LOOSE CLAYEY SAND AND SAND MOIST TO WET

17 + 88.00

SOIL TEST RESULTS

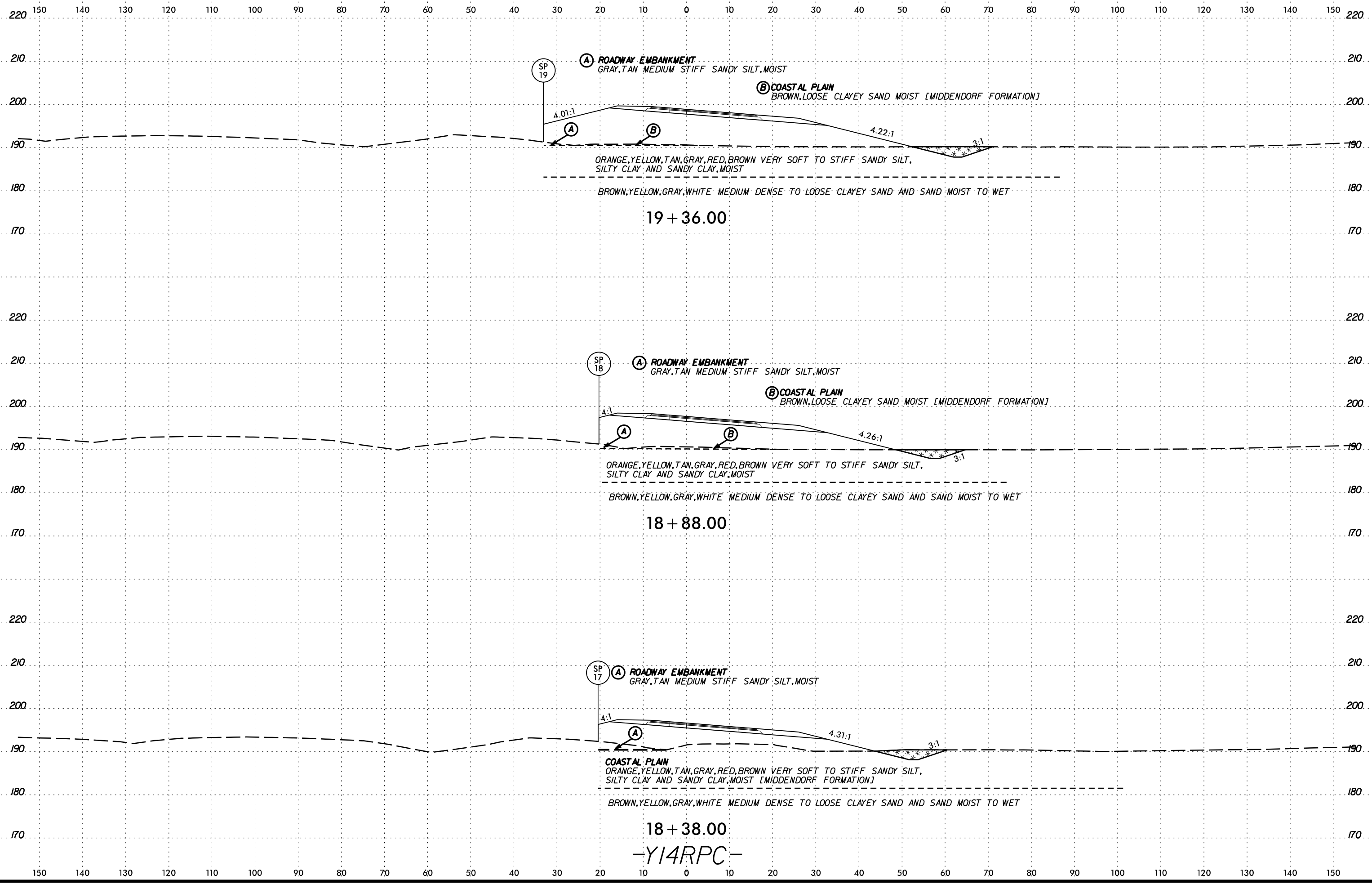
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	200			
SS-545	45' RT	17+43	3.5-5.0	A-6(8)	36	20	22	27	17	34	99	92	56.7	21.8	ND

SP 15 (A) ROADWAY EMBANKMENT
GRAY, TAN MEDIUM STIFF SANDY SILT, MOIST (B) ARTIFICIAL FILL
BROWN STIFF SANDY SILT, MOIST

COASTAL PLAIN
ORANGE, YELLOW, TAN, GRAY, RED, BROWN VERY SOFT TO STIFF SANDY SILT,
SILTY CLAY AND SANDY CLAY, MOIST [MIDDENDORF FORMATION]
BROWN, YELLOW, GRAY, WHITE MEDIUM DENSE TO LOOSE CLAYEY SAND AND SAND MOIST TO WET

17 + 38.00

-YI4RPC-



19 + 36.00

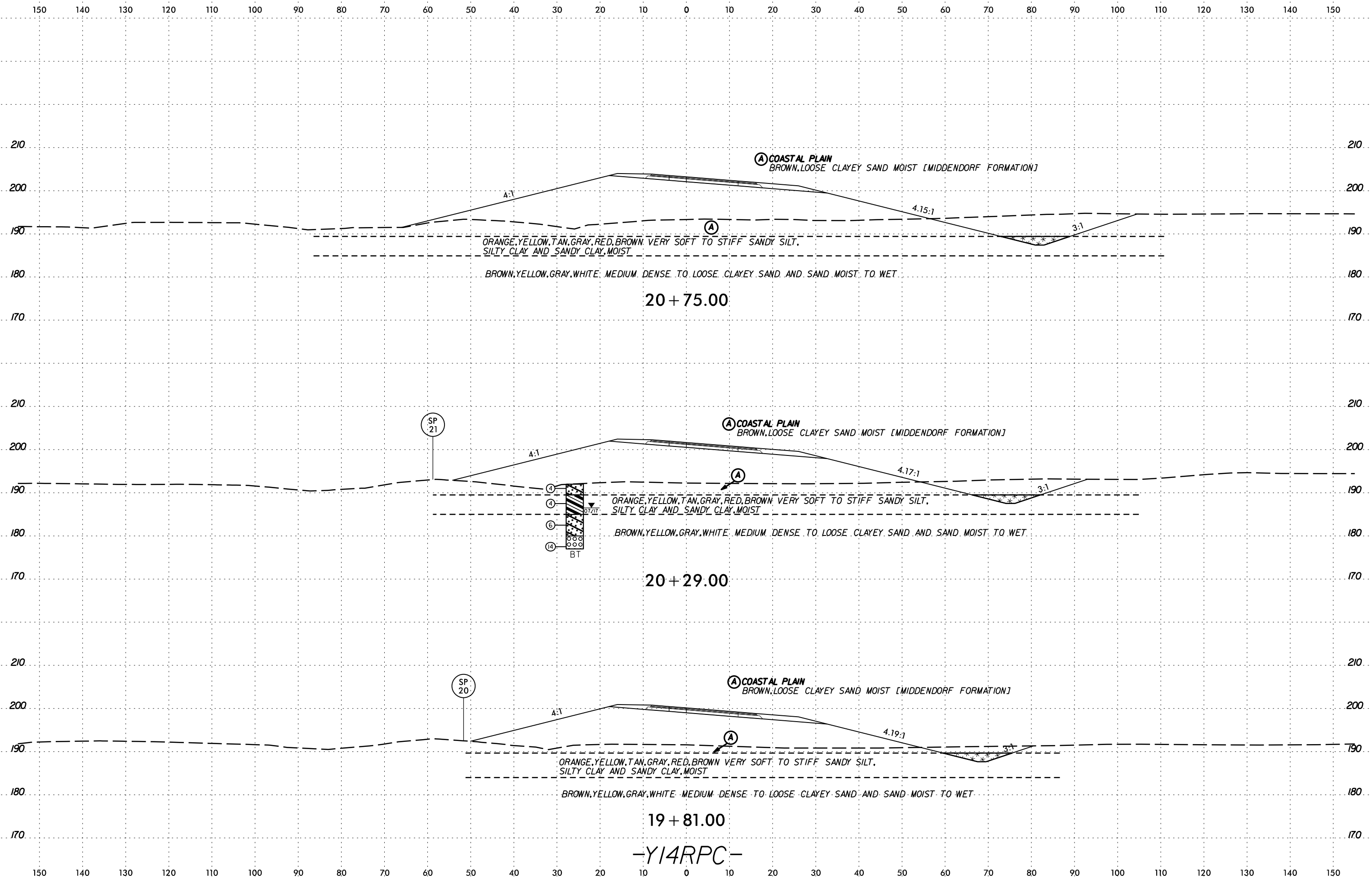
18 + 88.00

18 + 38.00

-Y14RPC-

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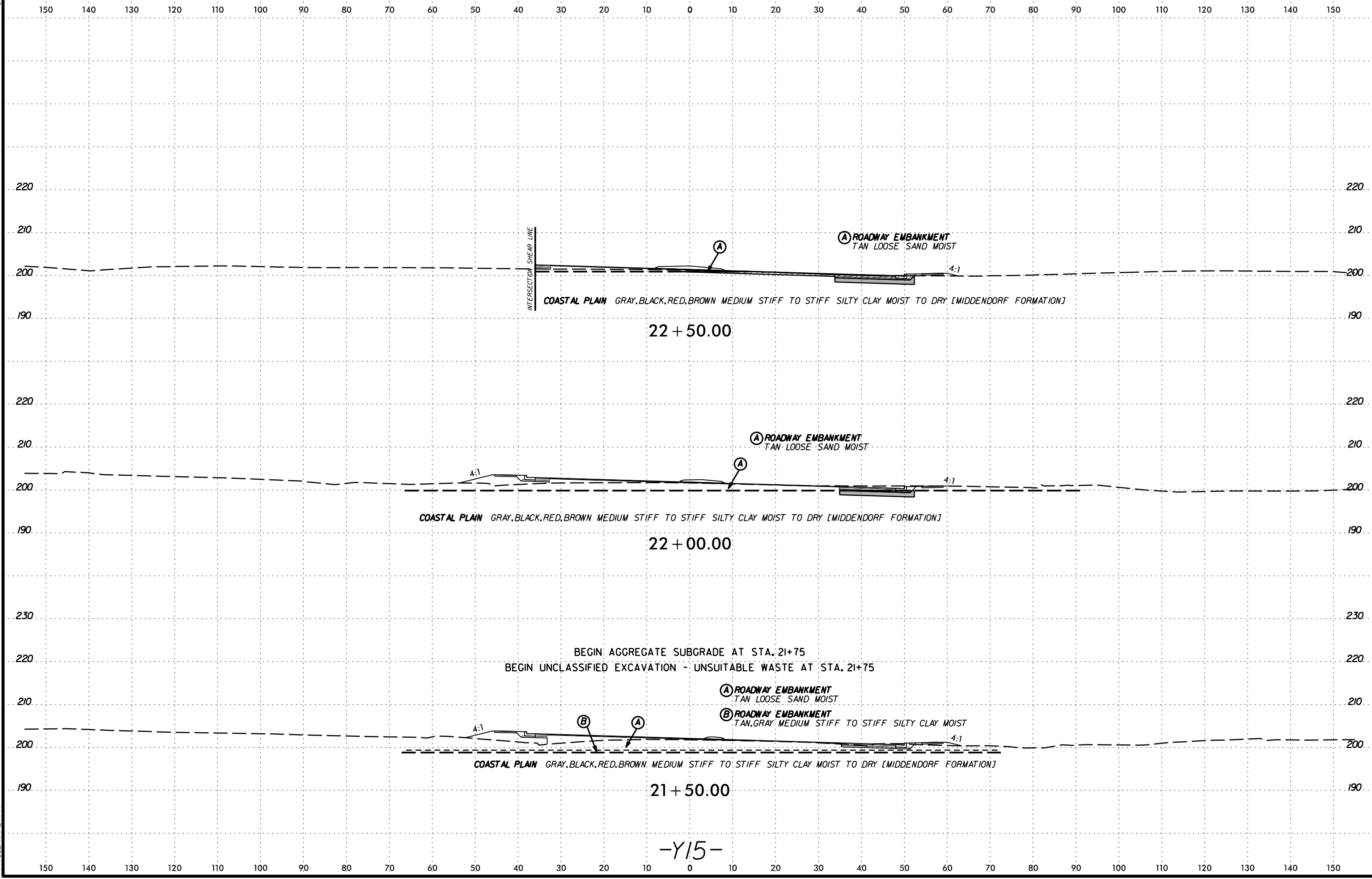
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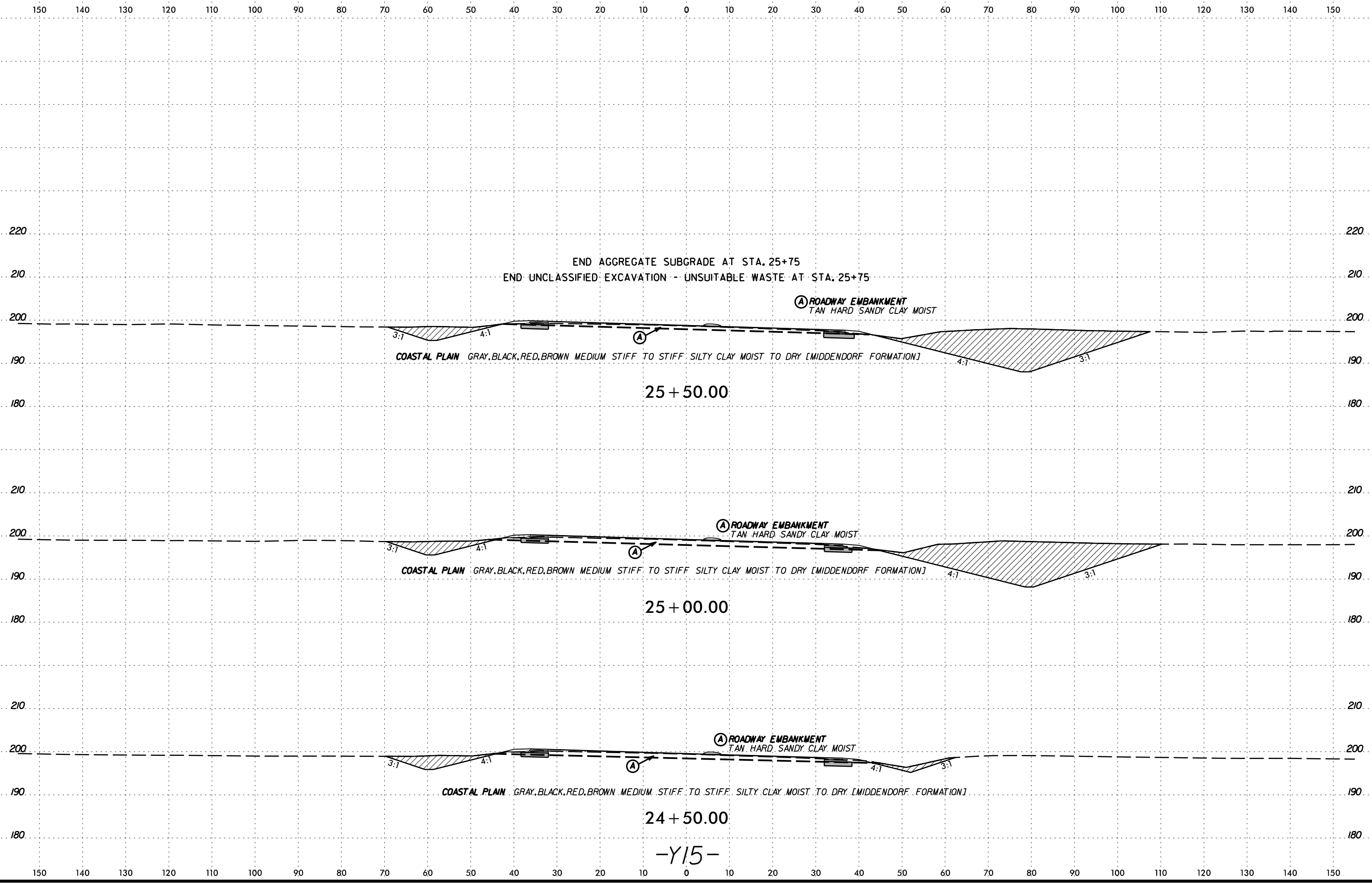
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END AGGREGATE SUBGRADE AT STA. 25+75
 END UNCLASSIFIED EXCAVATION -- UNSUITABLE WASTE AT STA. 25+75

Ⓐ ROADWAY EMBANKMENT
 TAN HARD SANDY CLAY MOIST

COASTAL PLAIN GRAY, BLACK, RED, BROWN MEDIUM STIFF TO STIFF SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

25 + 50.00

Ⓐ ROADWAY EMBANKMENT
 TAN HARD SANDY CLAY MOIST

COASTAL PLAIN GRAY, BLACK, RED, BROWN MEDIUM STIFF TO STIFF SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

25 + 00.00

Ⓐ ROADWAY EMBANKMENT
 TAN HARD SANDY CLAY MOIST

COASTAL PLAIN GRAY, BLACK, RED, BROWN MEDIUM STIFF TO STIFF SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

24 + 50.00

-Y15-

SCHEMATIC CROSS SECTION
 OF
 ROADWAY EMBANKMENT

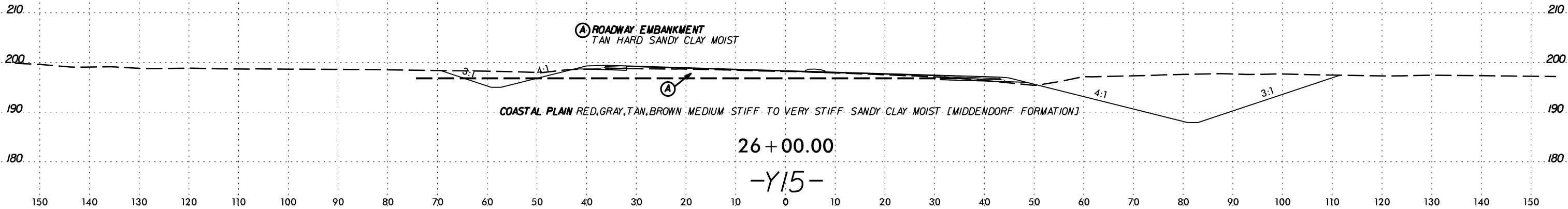
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PROJ. REFERENCE NO.
I-5986B

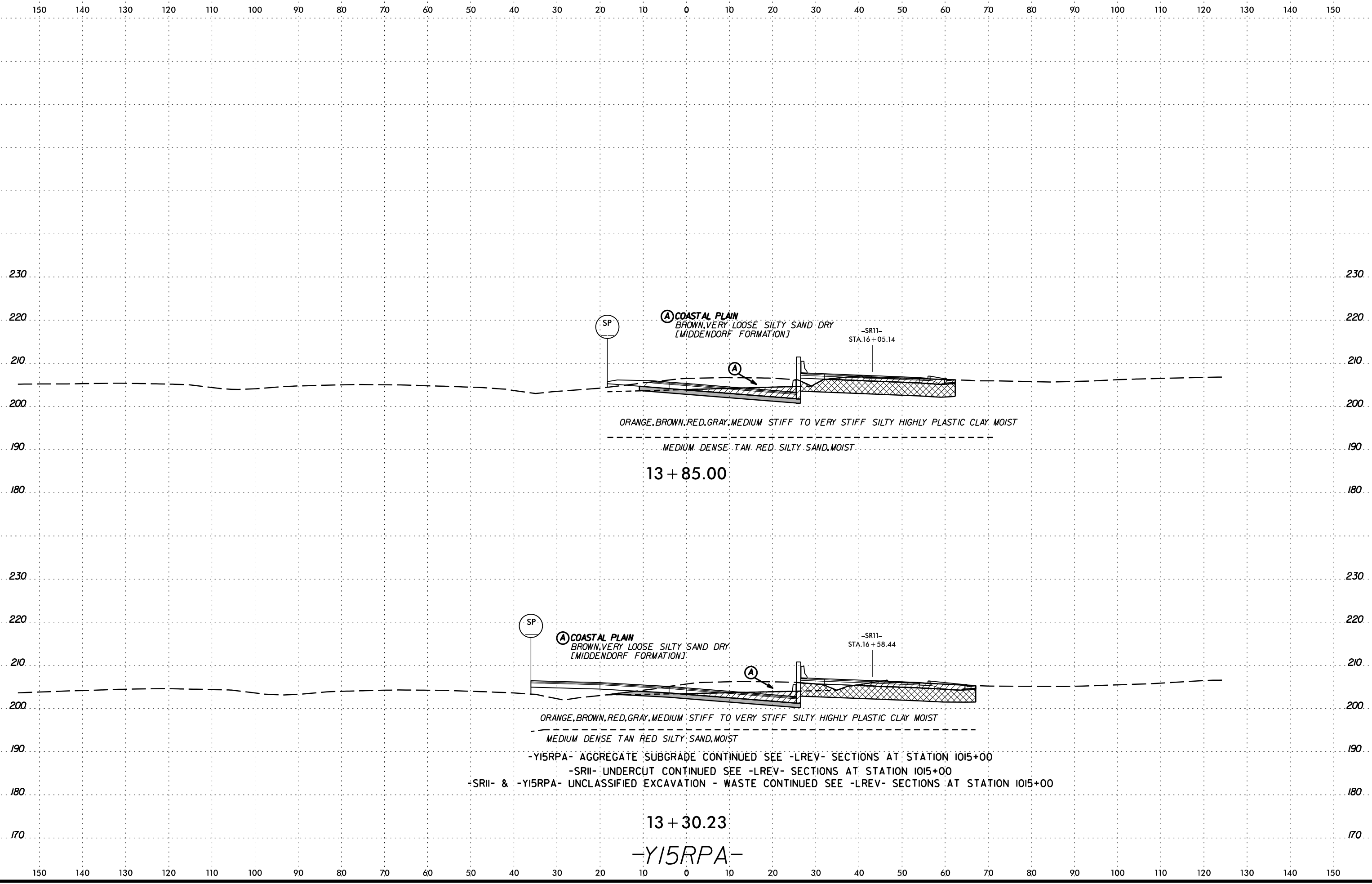
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



SYNTHETIC
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6/23/16



13 + 85.00

13 + 30.23

-Y15RPA-

(A) COASTAL PLAIN
BROWN, VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

(A) COASTAL PLAIN
BROWN, VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

ORANGE, BROWN, RED, GRAY, MEDIUM STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

MEDIUM DENSE TAN RED SILTY SAND, MOIST

ORANGE, BROWN, RED, GRAY, MEDIUM STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

MEDIUM DENSE TAN RED SILTY SAND, MOIST

-Y15RPA- AGGREGATE SUBGRADE CONTINUED SEE -LREV- SECTIONS AT STATION 1015+00
 -SR11- UNDERCUT CONTINUED SEE -LREV- SECTIONS AT STATION 1015+00
 -SR11- & -Y15RPA- UNCLASSIFIED EXCAVATION - WASTE CONTINUED SEE -LREV- SECTIONS AT STATION 1015+00

-SR11-
STA. 16 + 05.14

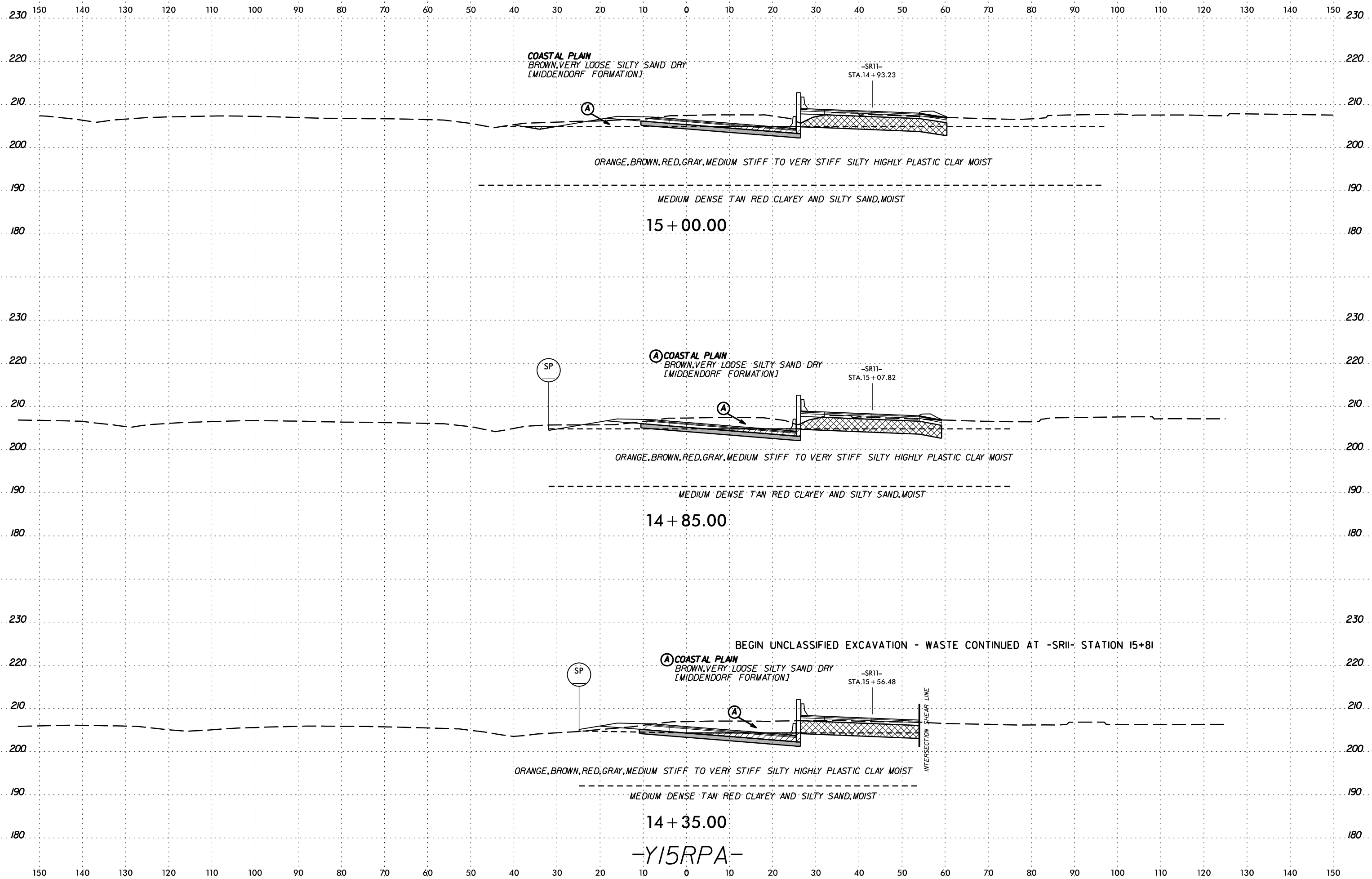
-SR11-
STA. 16 + 58.44

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COASTAL PLAIN
BROWN, VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

-SR11-
STA. 14 + 93.23

ORANGE, BROWN, RED, GRAY, MEDIUM STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

MEDIUM DENSE TAN RED CLAYEY AND SILTY SAND, MOIST

15 + 00.00

COASTAL PLAIN
BROWN, VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

-SR11-
STA. 15 + 07.82

ORANGE, BROWN, RED, GRAY, MEDIUM STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

MEDIUM DENSE TAN RED CLAYEY AND SILTY SAND, MOIST

14 + 85.00

COASTAL PLAIN
BROWN, VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

-SR11-
STA. 15 + 56.48

BEGIN UNCLASSIFIED EXCAVATION - WASTE CONTINUED AT -SR11- STATION 15+81

ORANGE, BROWN, RED, GRAY, MEDIUM STIFF TO VERY STIFF SILTY HIGHLY PLASTIC CLAY MOIST

MEDIUM DENSE TAN RED CLAYEY AND SILTY SAND, MOIST

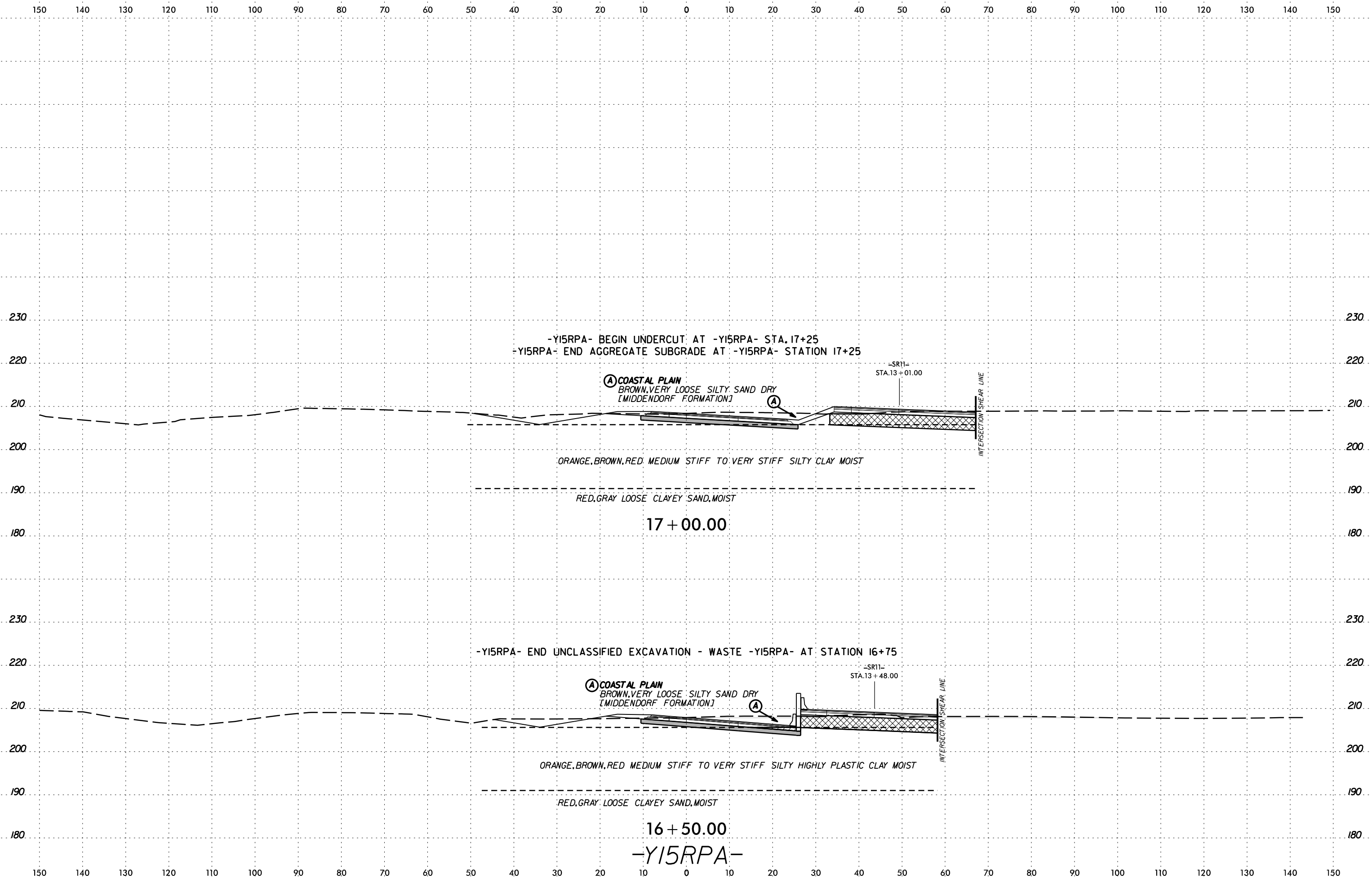
14 + 35.00

-Y15RPA-

INTERSECTION SHEAR LINE

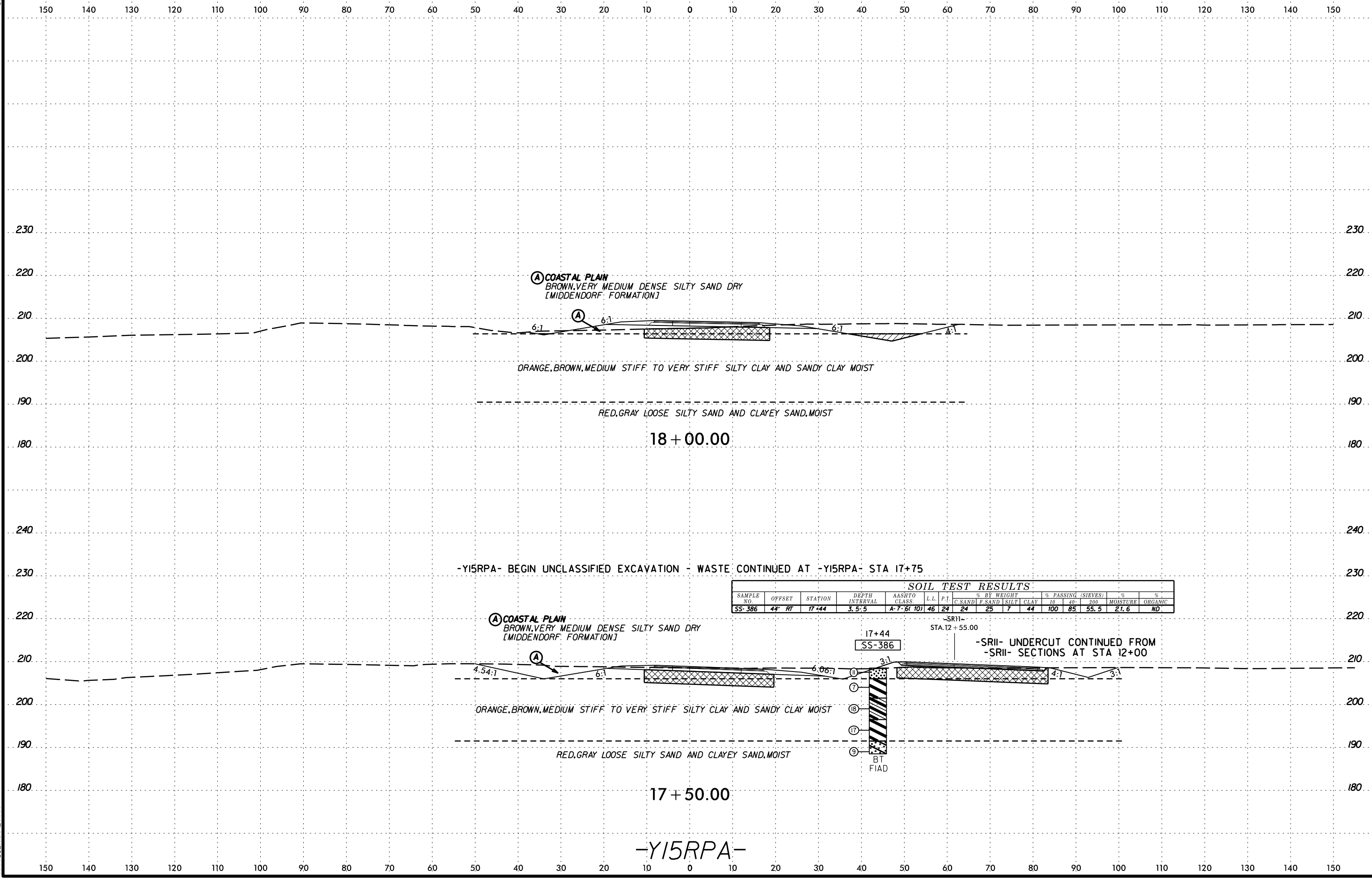
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Ⓐ COASTAL PLAIN
BROWN, VERY MEDIUM DENSE SILTY SAND DRY
[MIDDENDORF FORMATION]

ORANGE, BROWN, MEDIUM STIFF TO VERY STIFF SILTY CLAY AND SANDY CLAY MOIST

RED, GRAY LOOSE SILTY SAND AND CLAYEY SAND, MOIST

18 + 00.00

-Y15RPA- BEGIN UNCLASSIFIED EXCAVATION - WASTE CONTINUED AT -Y15RPA- STA 17+75

Ⓐ COASTAL PLAIN
BROWN, VERY MEDIUM DENSE SILTY SAND DRY
[MIDDENDORF FORMATION]

ORANGE, BROWN, MEDIUM STIFF TO VERY STIFF SILTY CLAY AND SANDY CLAY MOIST

RED, GRAY LOOSE SILTY SAND AND CLAYEY SAND, MOIST

17 + 50.00

-Y15RPA-

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-386	44' RT	17+44	3.5-5	A-7-6(10)	46	24	24	25	7	44	100	85	55.5	21.6	ND

17+44
SS-386

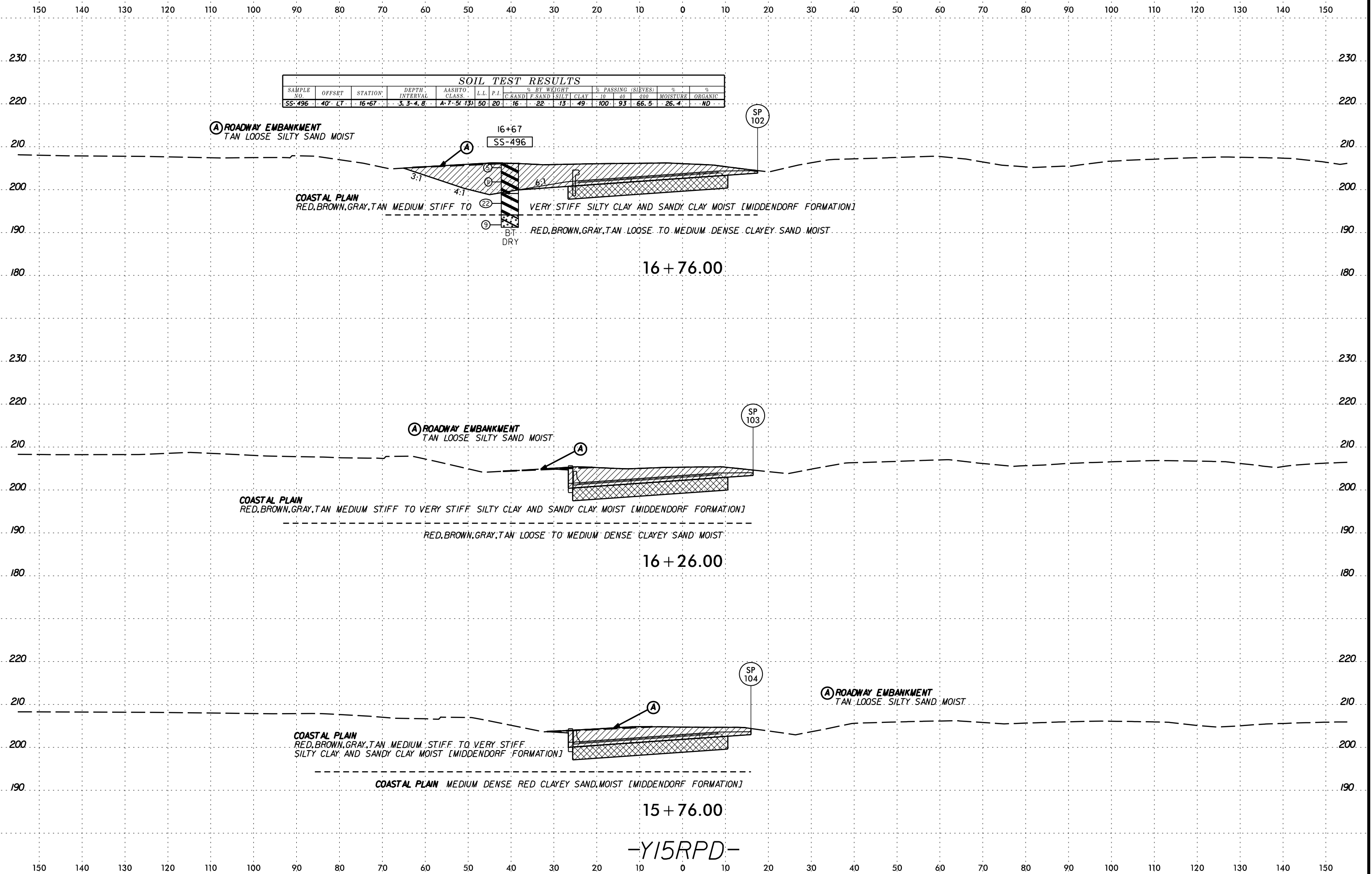
-SR11-
STA. 12+55.00

-SR11- UNDERCUT CONTINUED FROM
-SR11- SECTIONS AT STA 12+00

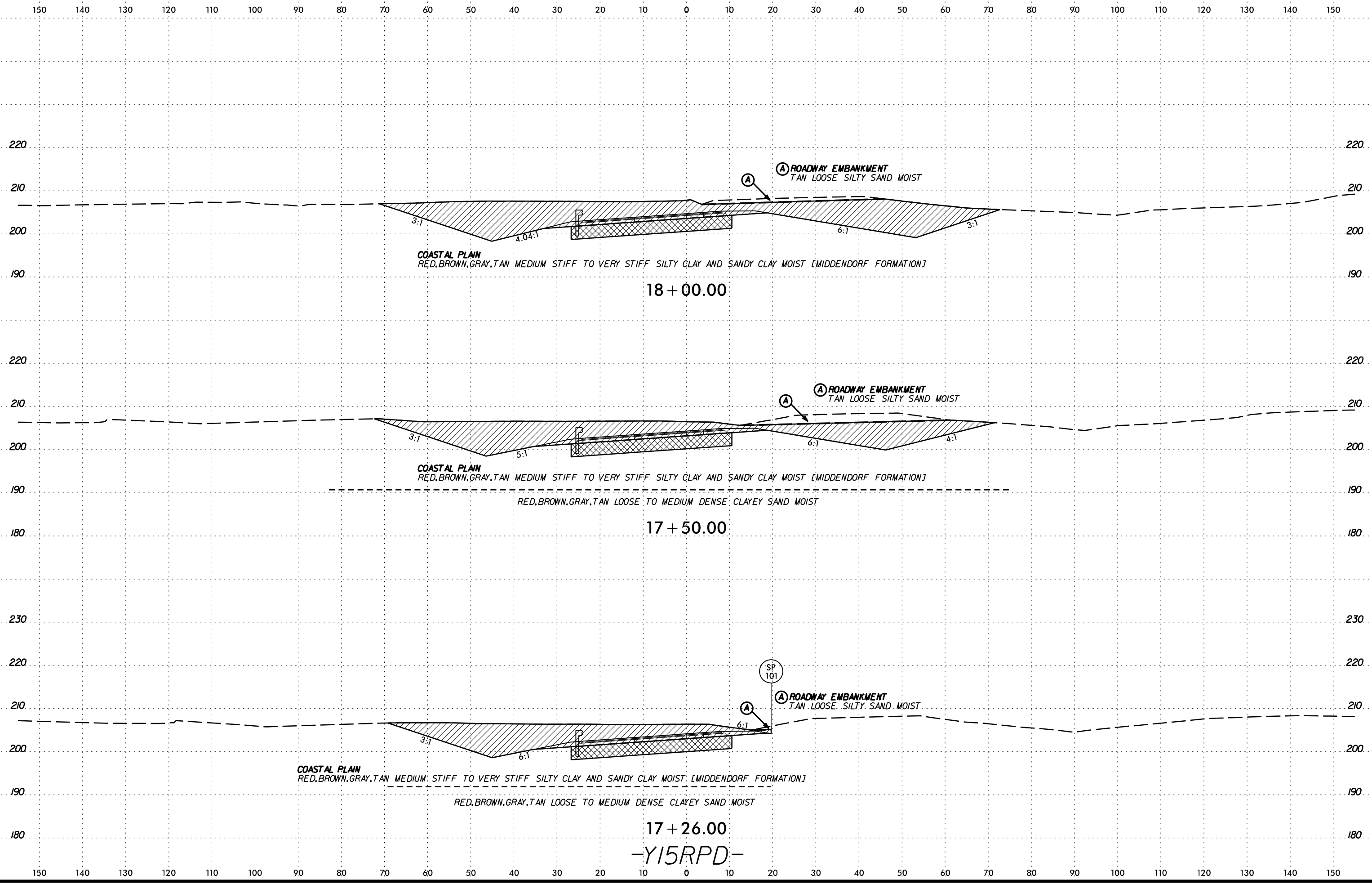
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SOIL TEST RESULTS																
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	LL	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC		
							C	F	S	CLAY	10	40	200			
SS-496	40' LT	16+67	3'-3'-4' 8"	A-7-5	13	50	20	16	22	13	49	100	93	66.5	26.4	ND



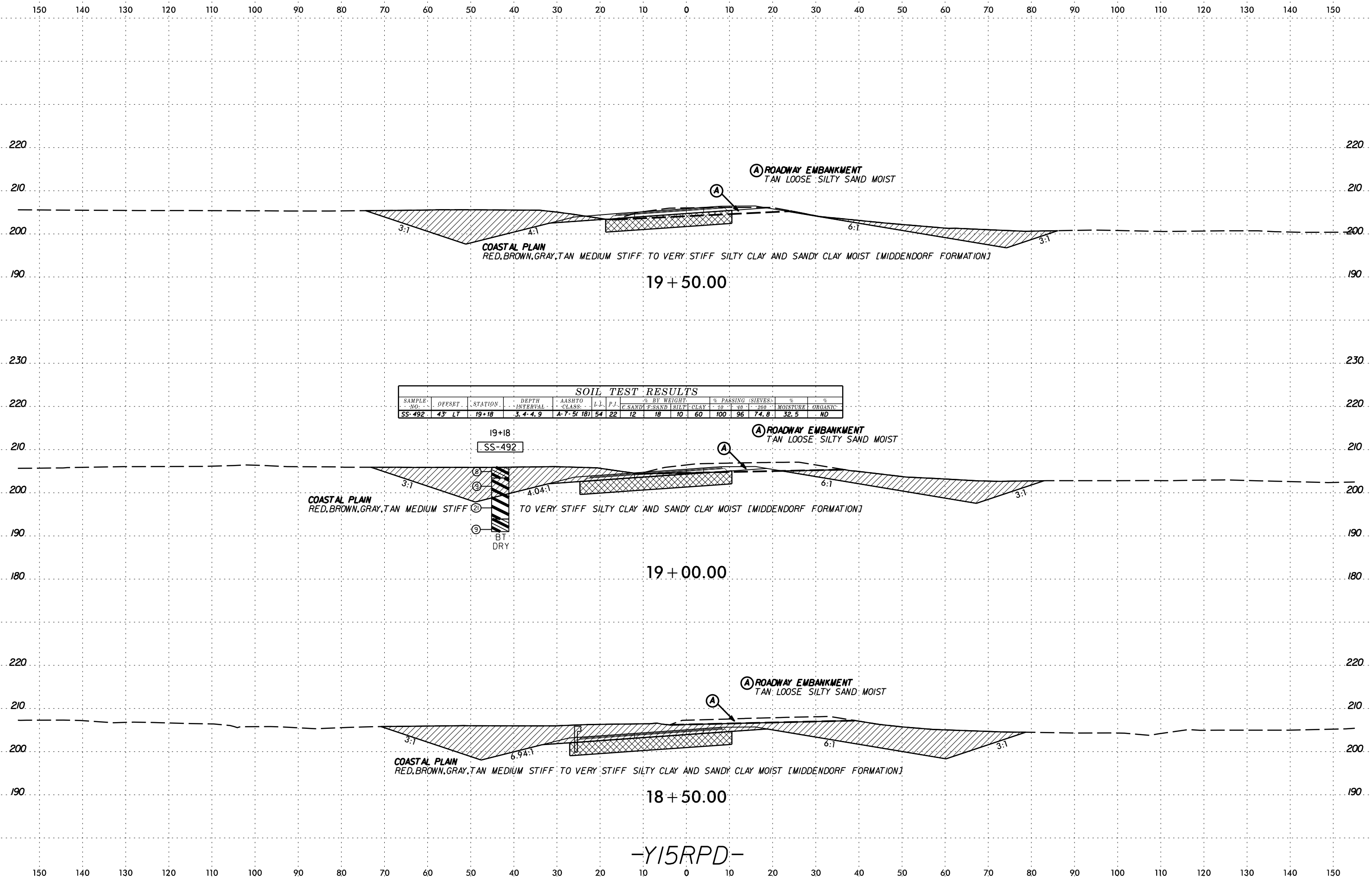
-Y15RPD-



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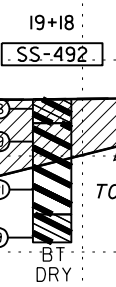
17+26.00
-Y15RPD-

6/23/16



SOIL TEST RESULTS

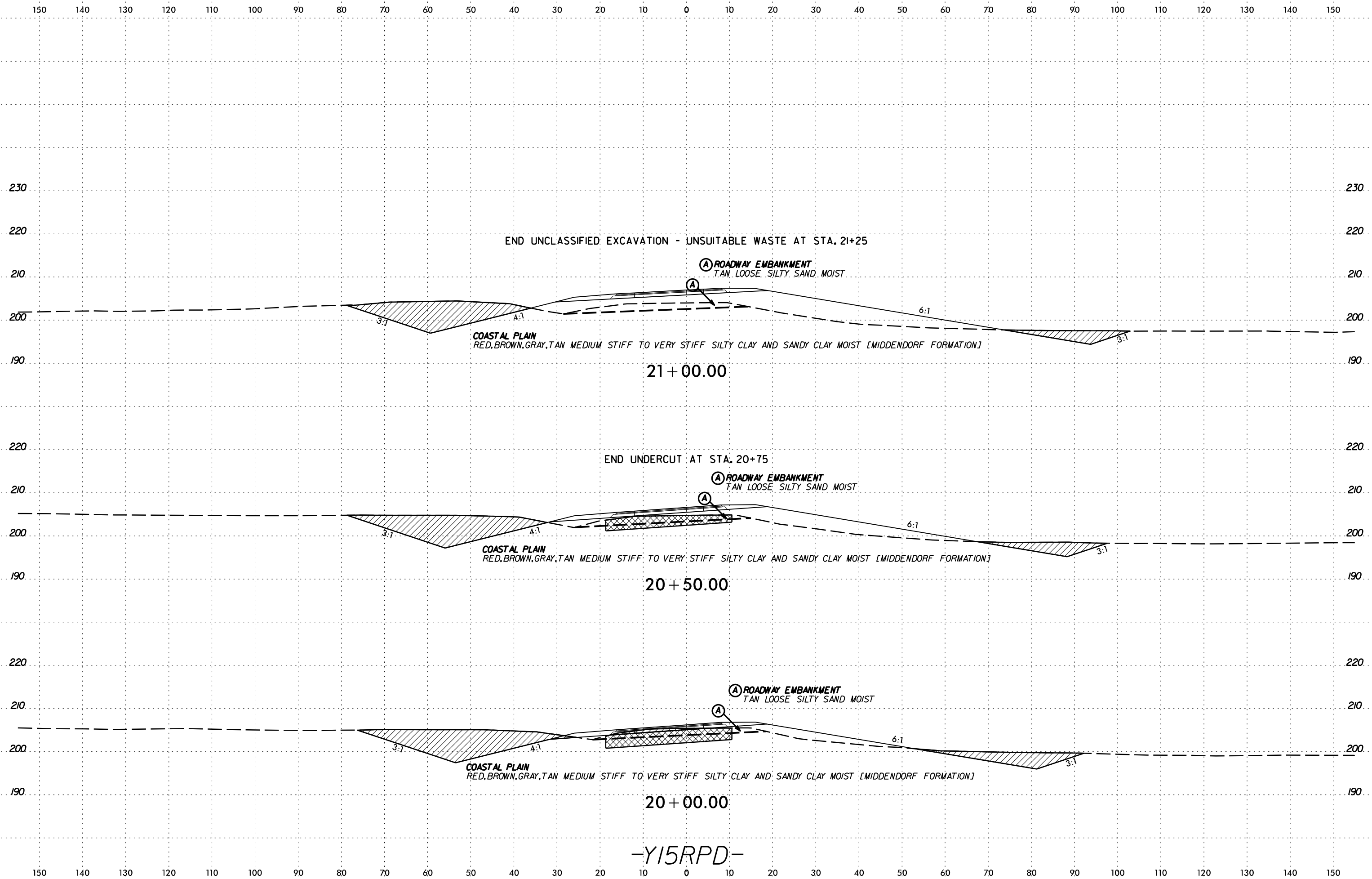
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							C. SAND	F. SAND	SILT	CLAY	#40	#200			
SS-492	43' LT	19+18	3.4-4.9	A-7.5(18)	54	22	12	18	10	60	100	96	74.8	32.5	ND



SCHEMATIC CONSTRUCTION PERMANENT

-Y15RPD-

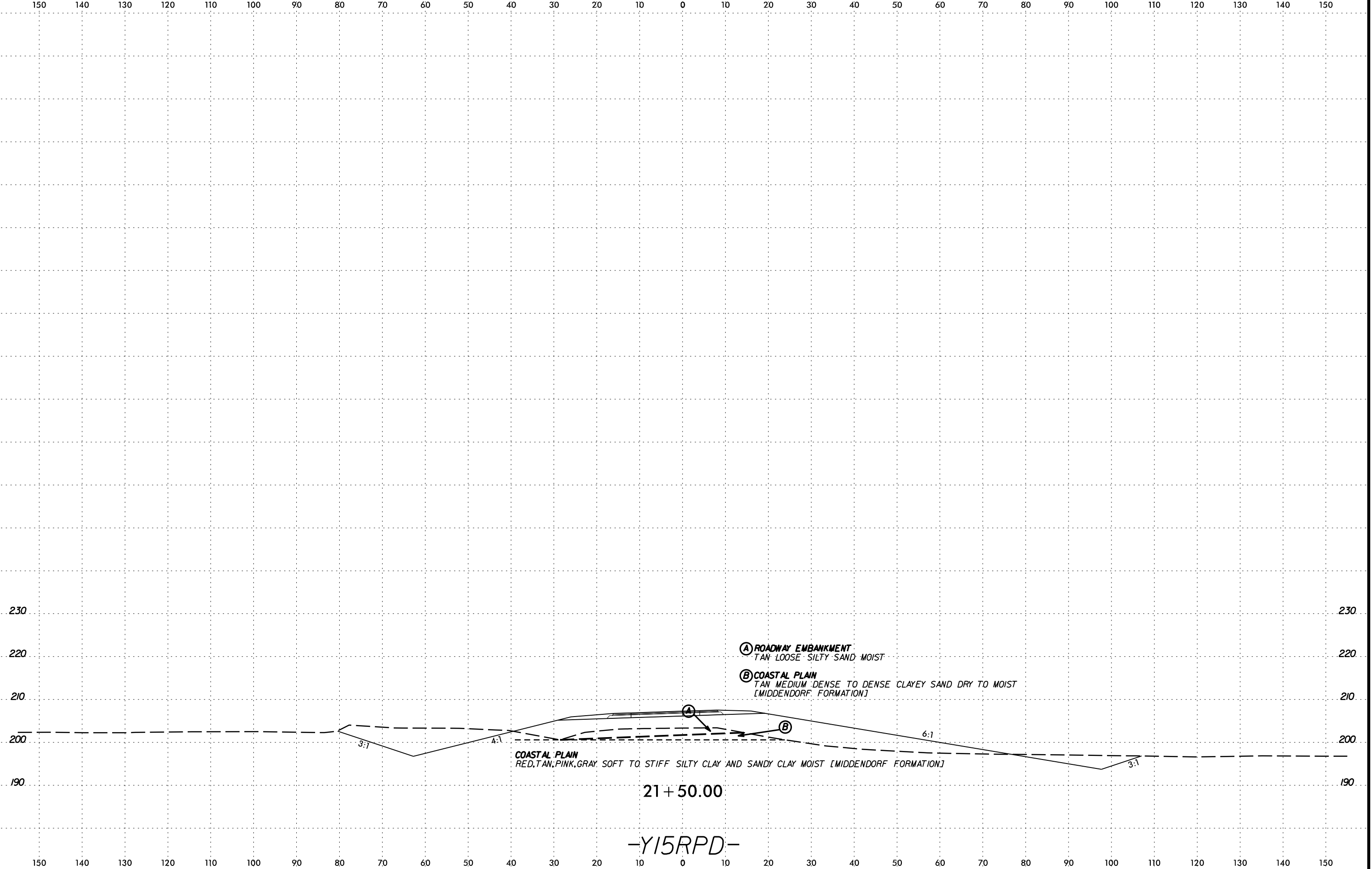
6/23/16



-Y15RPD-

DATE: 6/23/16
DRAWN BY: J. BARRANE
CHECKED BY: J. BARRANE
SCALE: AS SHOWN
PROJECT: I-5986B

6/23/16
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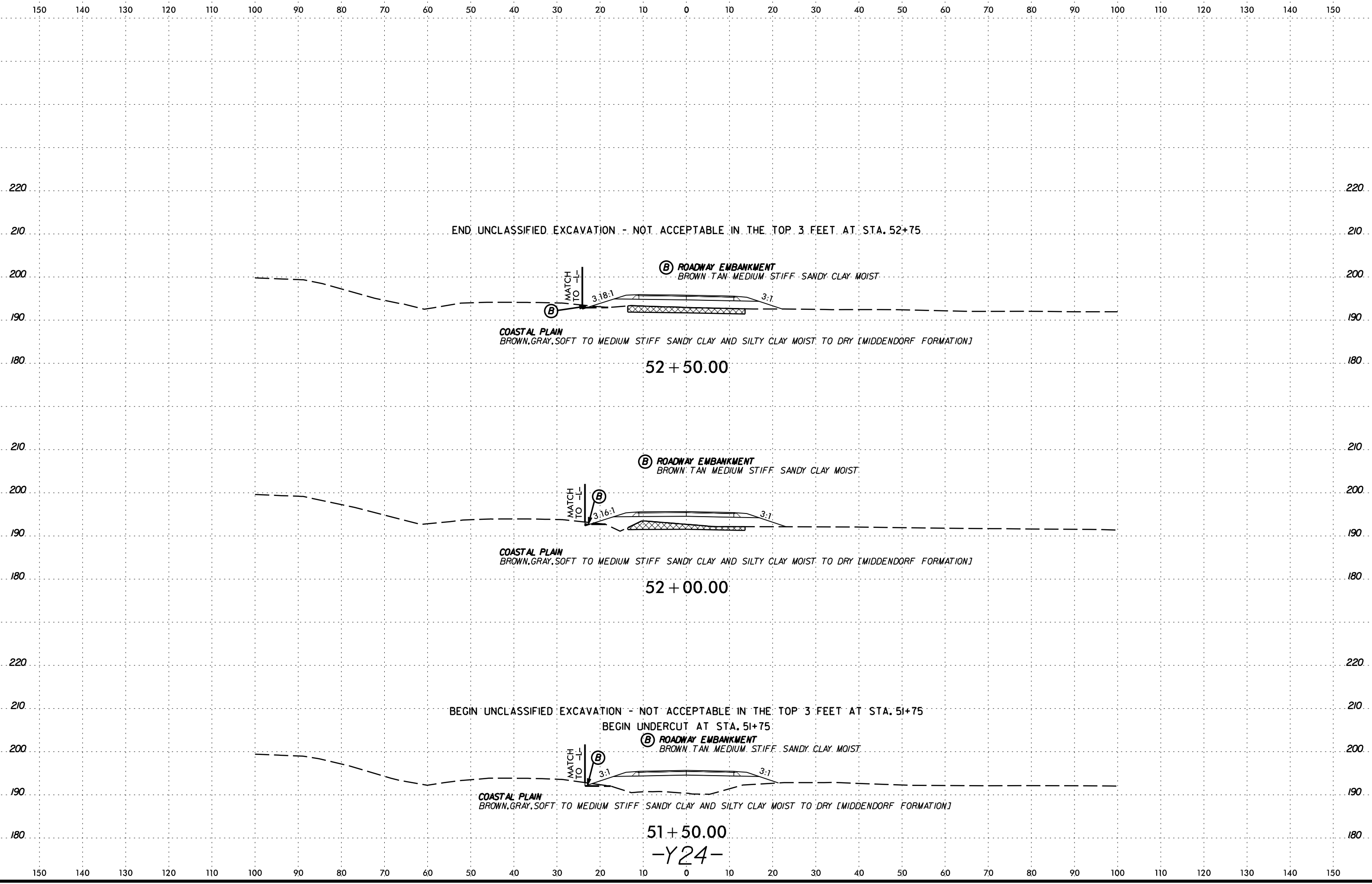
21+50.00

-Y15RPD-

- (A) ROADWAY EMBANKMENT
TAN LOOSE SILTY SAND MOIST
- (B) COASTAL PLAIN
TAN MEDIUM DENSE TO DENSE CLAYEY SAND DRY TO MOIST
[MIDDENDORF FORMATION]

COASTAL PLAIN
RED, TAN, PINK, GRAY, SOFT TO STIFF SILTY CLAY AND SANDY CLAY MOIST [MIDDENDORF FORMATION]

6/23/16



END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 52+75

(B) ROADWAY EMBANKMENT
BROWN-TAN MEDIUM STIFF SANDY CLAY MOIST

COASTAL PLAIN
BROWN, GRAY, SOFT TO MEDIUM STIFF SANDY CLAY AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

52 + 50.00

(B) ROADWAY EMBANKMENT
BROWN-TAN MEDIUM STIFF SANDY CLAY MOIST

COASTAL PLAIN
BROWN, GRAY, SOFT TO MEDIUM STIFF SANDY CLAY AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

52 + 00.00

BEGIN UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 51+75

BEGIN UNDERCUT AT STA. 51+75

(B) ROADWAY EMBANKMENT
BROWN-TAN MEDIUM STIFF SANDY CLAY MOIST

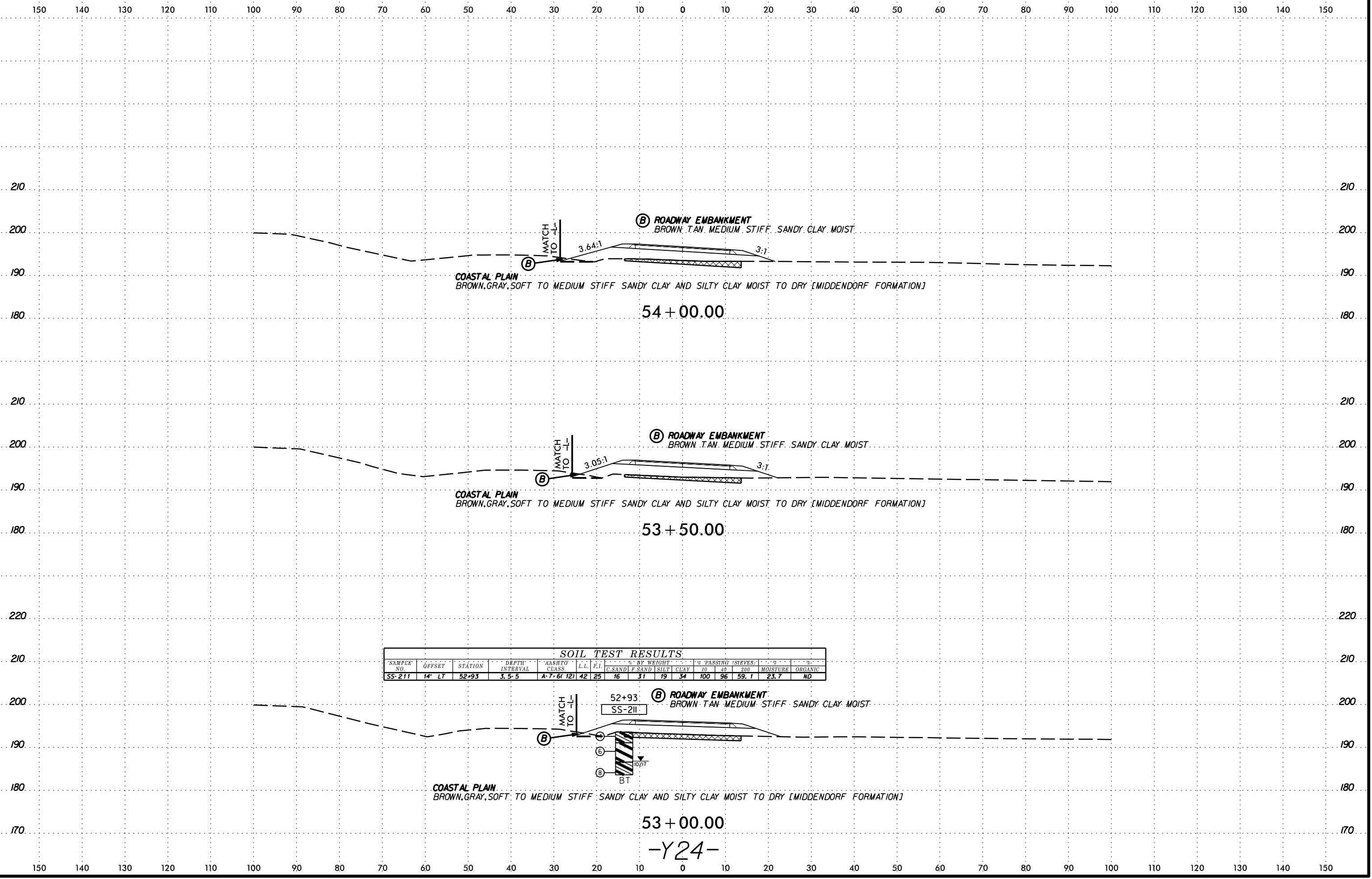
COASTAL PLAIN
BROWN, GRAY, SOFT TO MEDIUM STIFF SANDY CLAY AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

51 + 50.00

-Y24-

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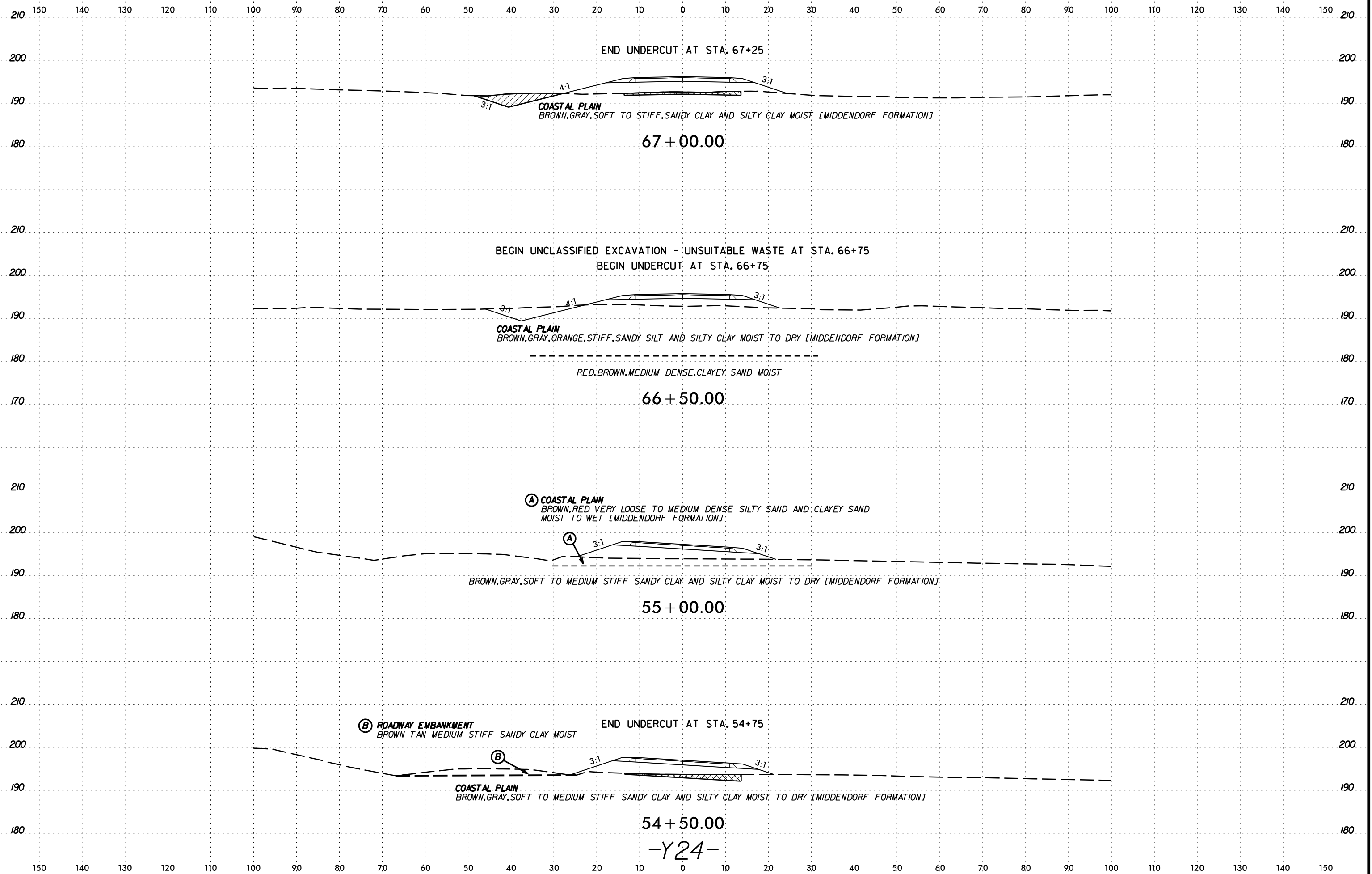
6/23/16



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-211	14' LT	52+93	3.5-5	A-7-6(12)	42	25	16	31	19	34	100	96	59.1	23.7	ND

53+00.00
-Y24-



END UNDERCUT AT STA. 67+25

COASTAL PLAIN
BROWN, GRAY, SOFT TO STIFF, SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]

67 + 00.00

BEGIN UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 66+75
BEGIN UNDERCUT AT STA. 66+75

COASTAL PLAIN
BROWN, GRAY, ORANGE, STIFF, SANDY SILT AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

RED, BROWN, MEDIUM DENSE, CLAYEY SAND MOIST

66 + 50.00

(A) COASTAL PLAIN
BROWN, RED VERY LOOSE TO MEDIUM DENSE SILTY SAND AND CLAYEY SAND
MOIST TO WET [MIDDENDORF FORMATION]

BROWN, GRAY, SOFT TO MEDIUM STIFF SANDY CLAY AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

55 + 00.00

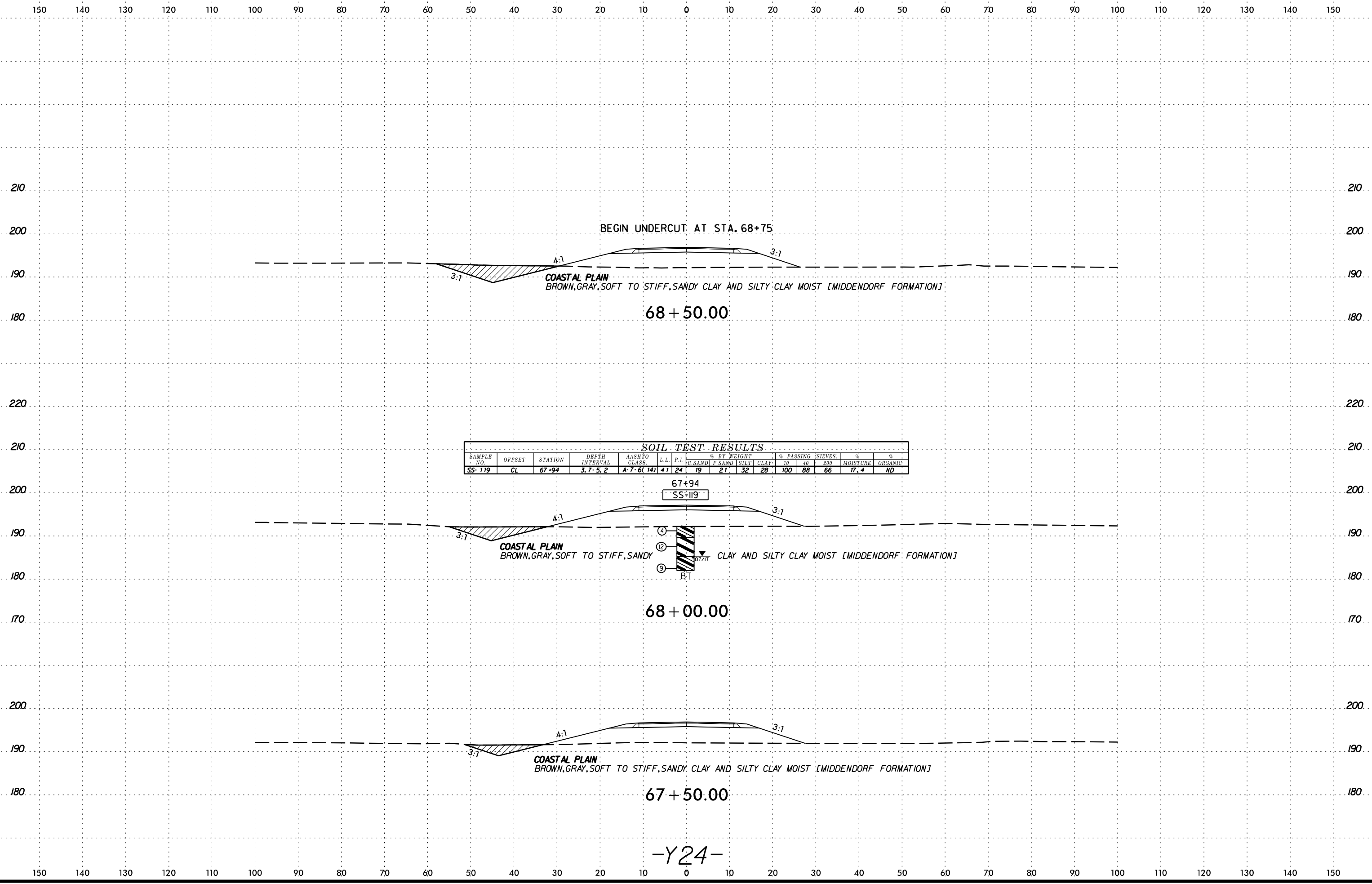
(B) ROADWAY EMBANKMENT
BROWN TAN MEDIUM STIFF SANDY CLAY MOIST

END UNDERCUT AT STA. 54+75

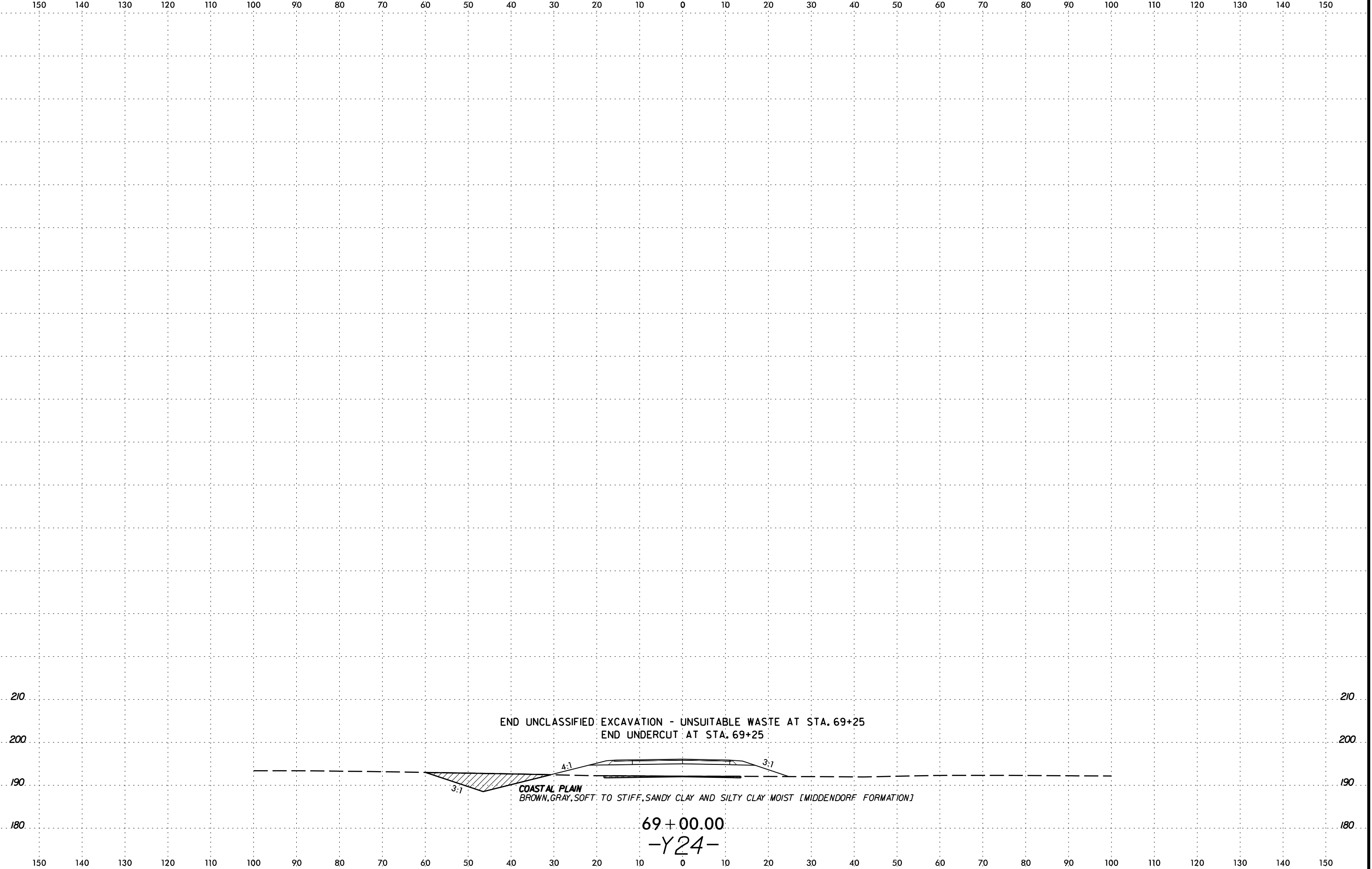
COASTAL PLAIN
BROWN, GRAY, SOFT TO MEDIUM STIFF SANDY CLAY AND SILTY CLAY MOIST TO DRY [MIDDENDORF FORMATION]

54 + 50.00

-Y24-



6/23/16
SECTION
DATE
BY
CHECKED
APPROVED



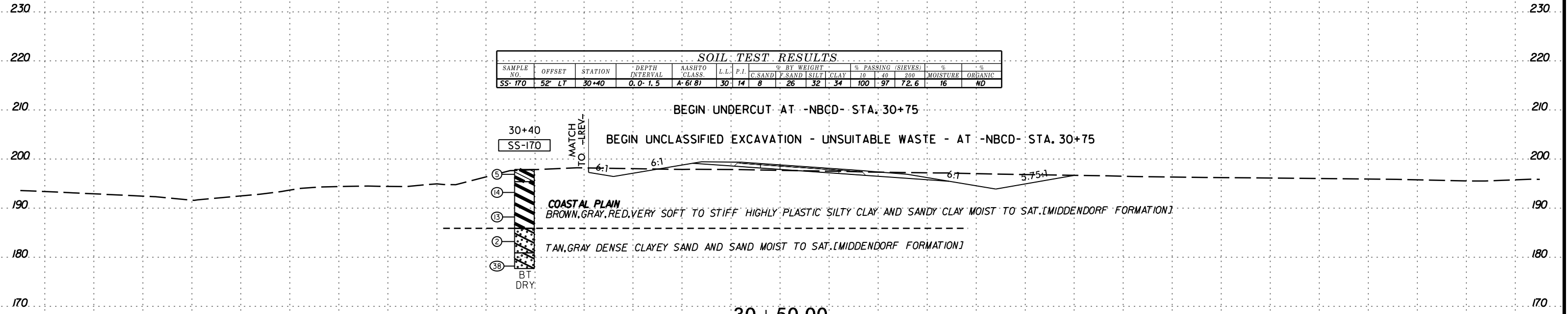
END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 69+25
END UNDERCUT AT STA. 69+25

COASTAL PLAIN
BROWN, GRAY, SOFT TO STIFF, SANDY CLAY AND SILTY CLAY MOIST [MIDDENDORF FORMATION]

69+00.00
-Y24-



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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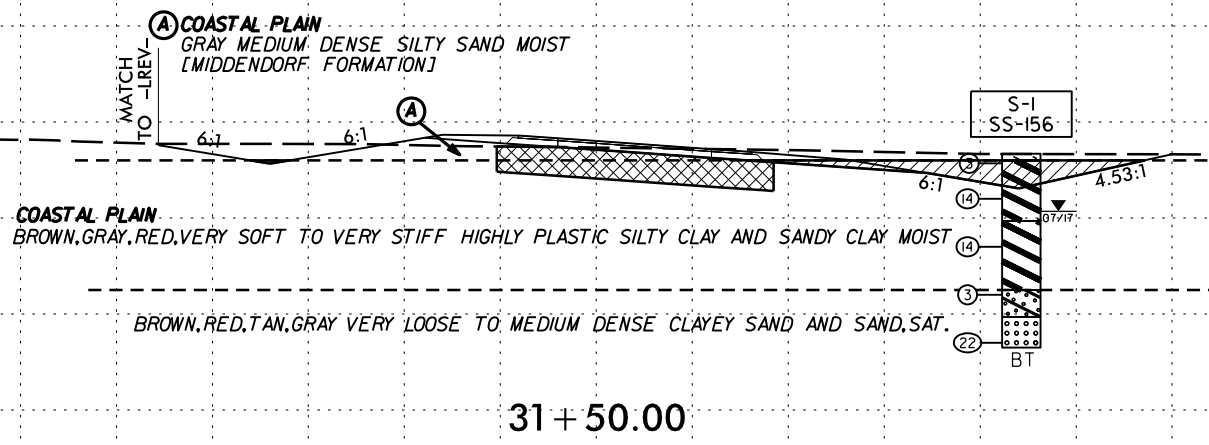
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.220 .210 .200 .190 .180 .170

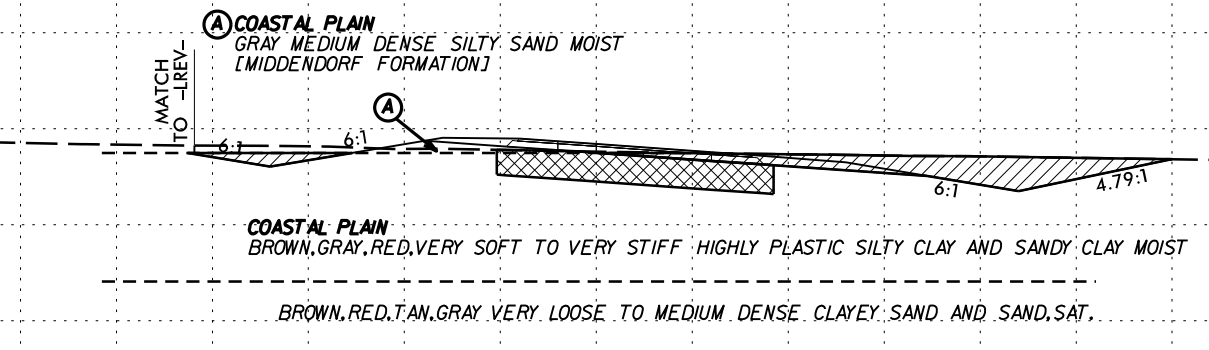
.220 .210 .200 .190 .180 .170

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.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE %	ORGANIC %	
							C. SAND	F. SAND	SILT	CLAY	10	200			
S-1	44' RT	31+50	1.0-5.0	A-7-6(16)	42	24	10	29	25	36	100	95	71.9	22.3	ND
SS-156	44' RT	31+50	3.7-5.2	A-7-6(34)	60	36	5	12	30	53	100	98	86.4	24.8	ND



31 + 50.00

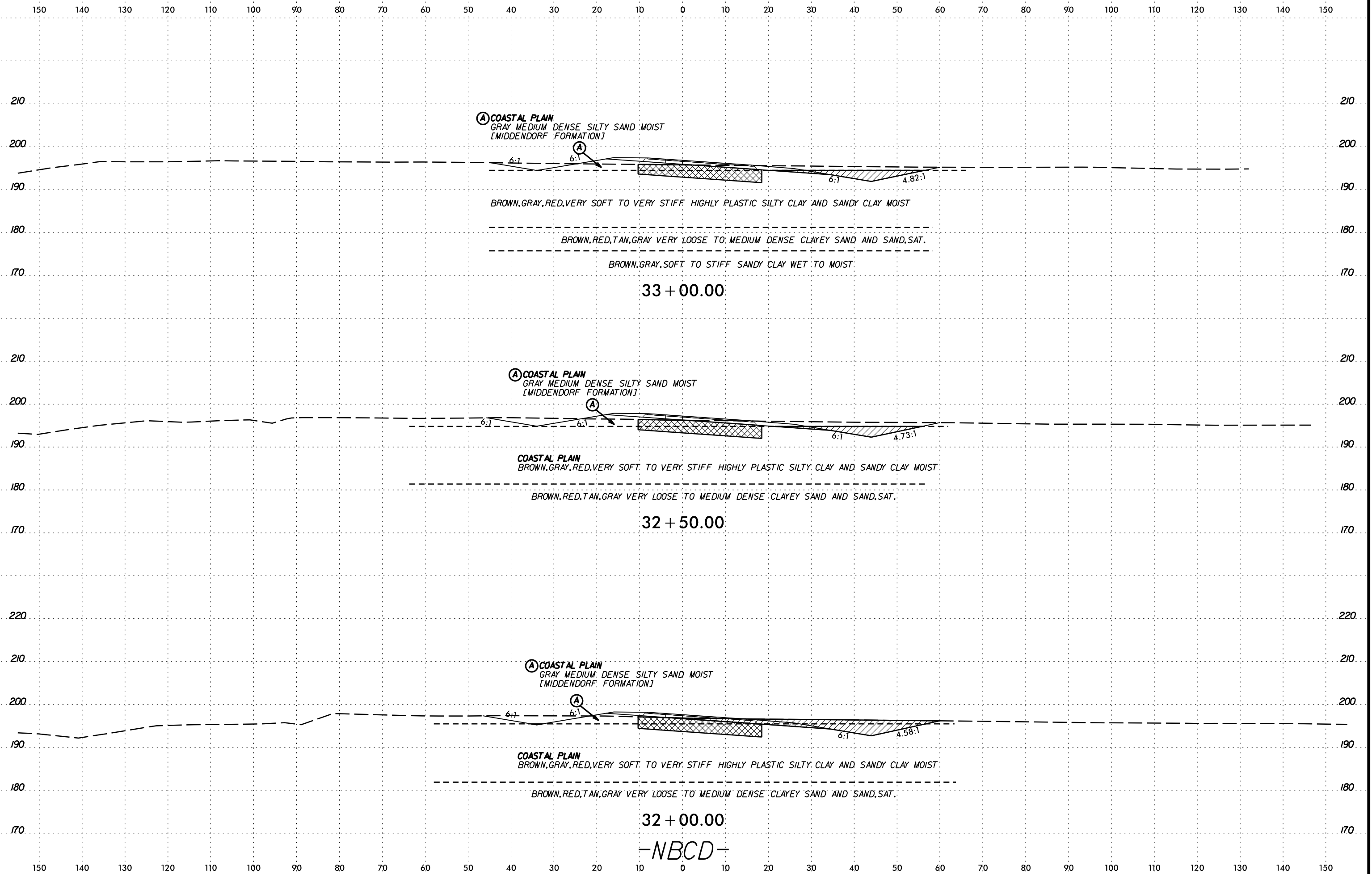


31 + 00.00

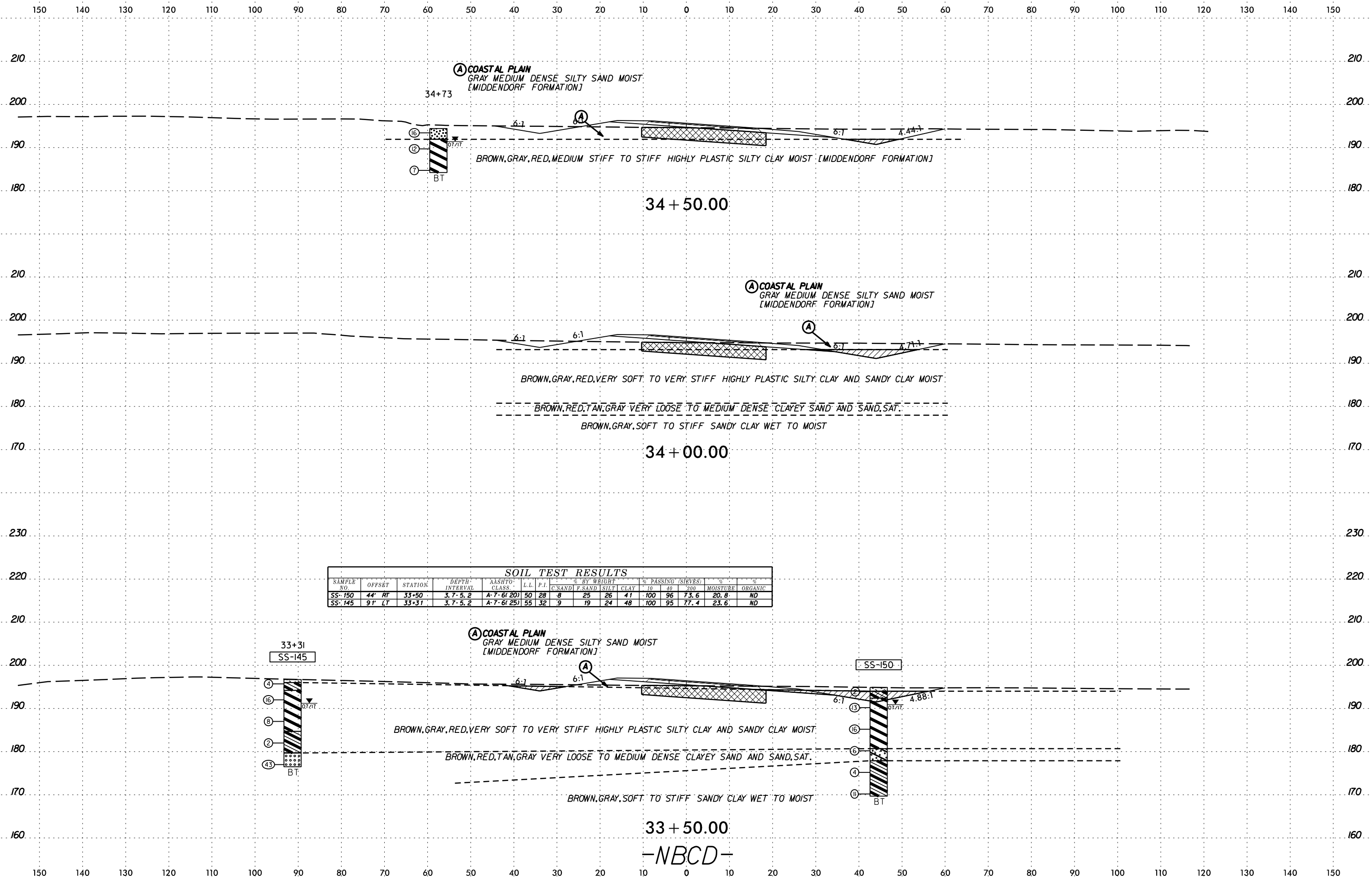
-NBCD-

SCHEMATIC SECTION
DATE: 6/23/16
DRAWN BY: J. BARRANE

6/23/16
 COUNTY ENGINEER
 COUNTY OF ALABAMA
 TALLADEGA COUNTY
 DEPARTMENT OF TRANSPORTATION



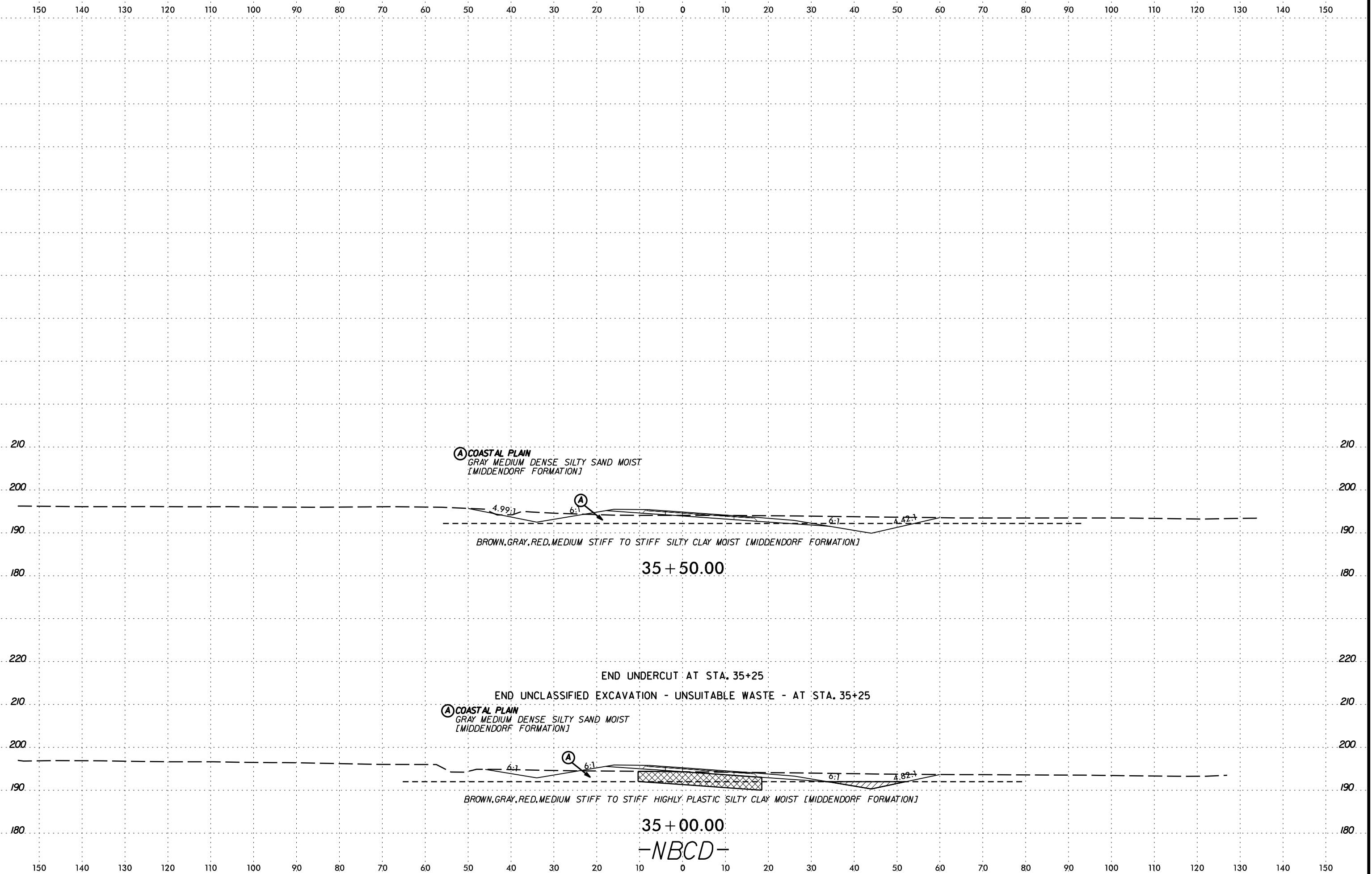
32 + 00.00
 -NBCD-

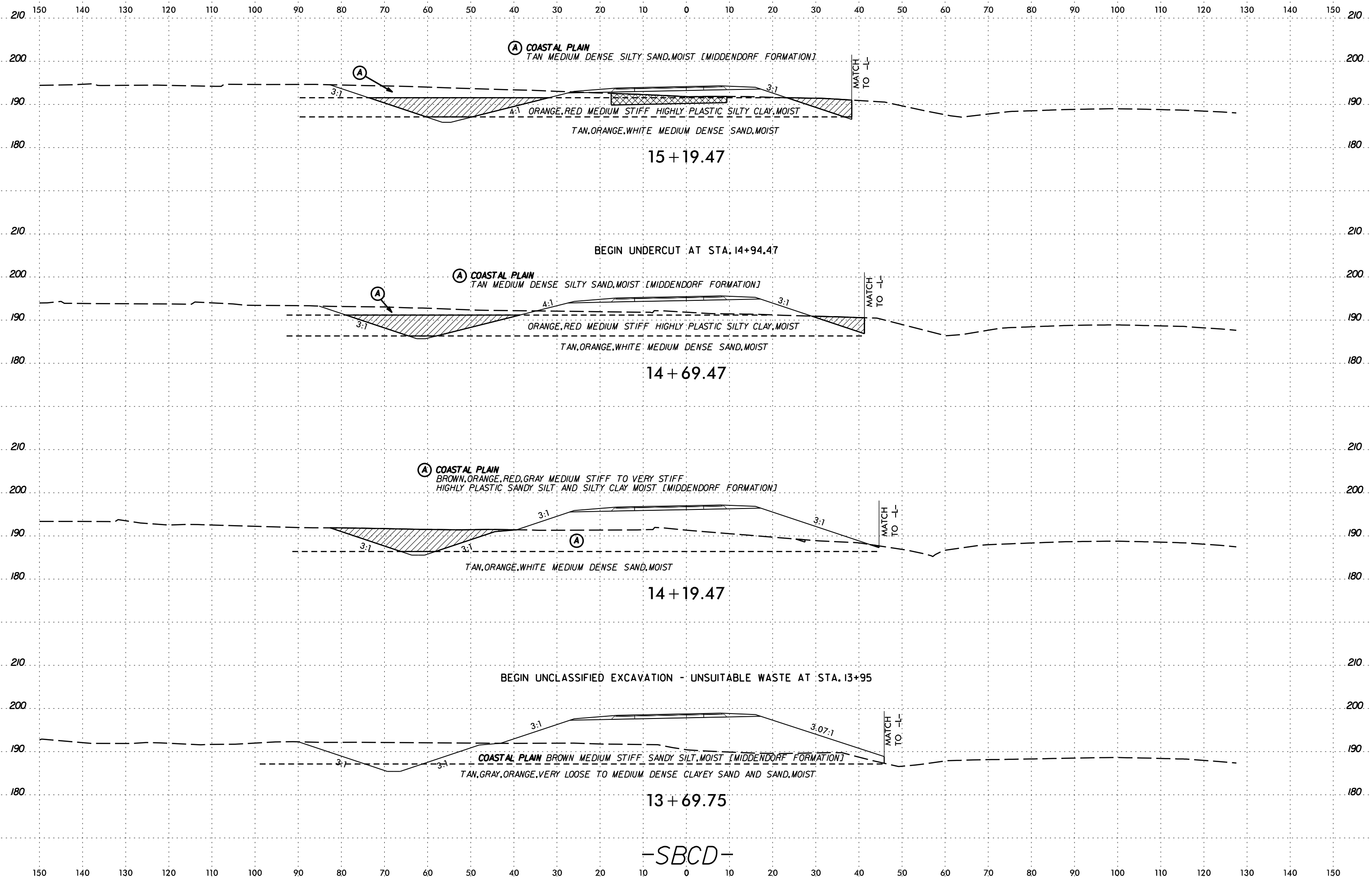


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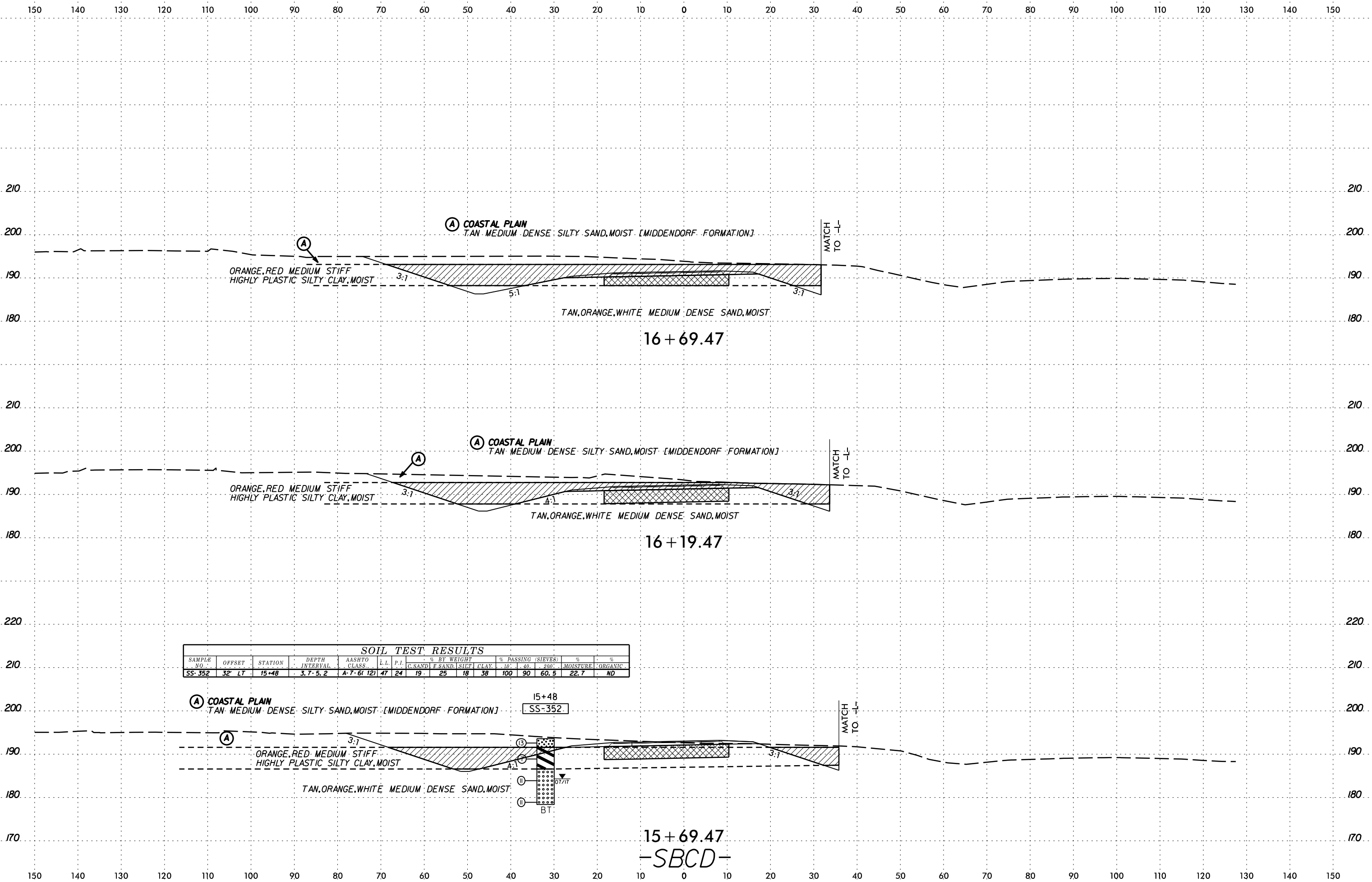
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SCHEMATIC CROSS SECTION OF ROADWAY

-SBCD-

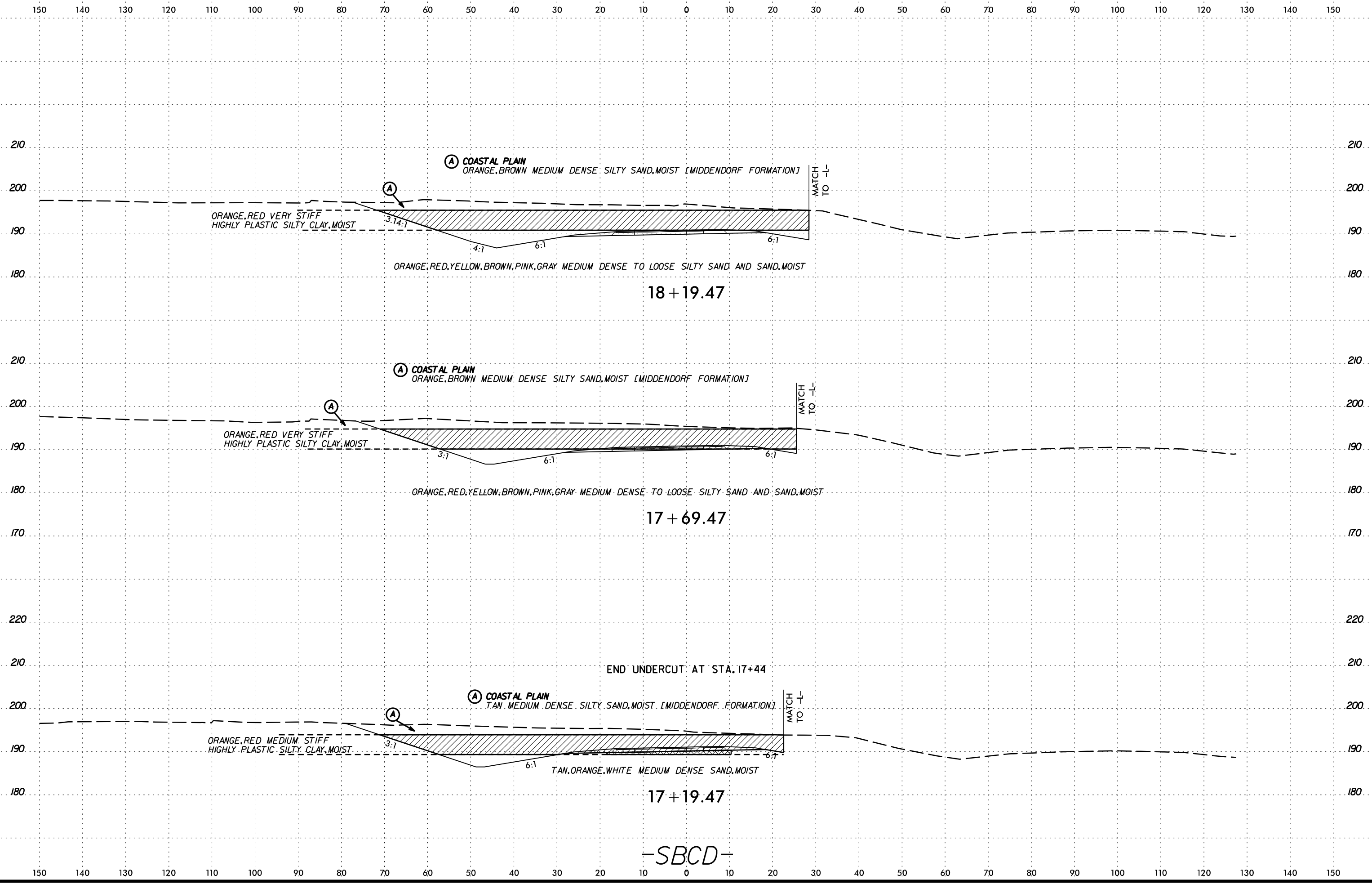


SOIL TEST RESULTS																
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC		
							C. SAND	F. SAND	SILT	CLAY	10'	40' - 200'				
SS-352	32' LT	15+48	3.7-5.2	A-7-61	121	47	24	19	25	18	38	100	90	60.5	22.7	ND

SCHEMATIC DESIGN
 JULY 2015
 SERRAVALLO

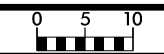
15+69.47
-SBCD-

6/23/16

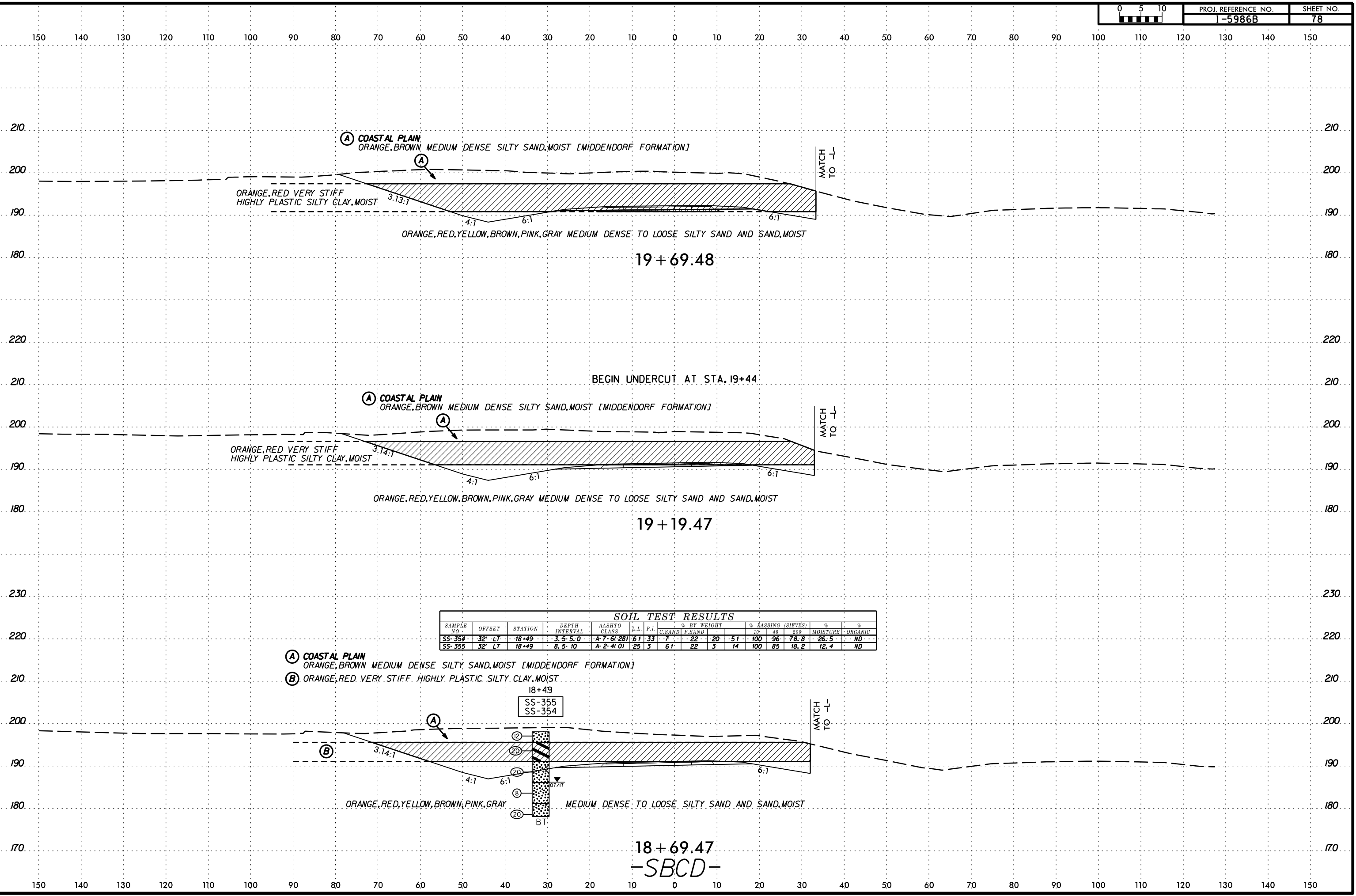


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BEGIN UNDERCUT AT STA. 19+44

19+69.48

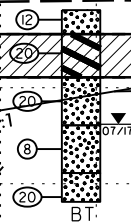
19+19.47

18+69.47
-SBCD-

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	SAND	10	40	200			
SS-354	32' LT	18+49	3.5 - 5.0	A-7-6(28)	61	33	7	22	20	51	100	96	78.8	26.5	ND
SS-355	32' LT	18+49	8.5 - 10	A-2-4(0)	25	3	61	22	3	14	100	85	18.2	12.4	ND

- (A) COASTAL PLAIN ORANGE, BROWN MEDIUM DENSE SILTY SAND, MOIST [MIDDENDORF FORMATION]
- (B) ORANGE, RED VERY STIFF HIGHLY PLASTIC SILTY CLAY, MOIST

18+49
SS-355
SS-354



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.	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-359	35' LT	21+44	3.5-5	A-7-5(23)	61	29	12	19	12	57	100	94	73.8	29.7	ND

(A) COASTAL PLAIN BROWN LOOSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

21+44

SS-359

ORANGE, RED VERY STIFF HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY, MOIST

BT DRY ORANGE, BROWN, GRAY MEDIUM DENSE SAND, MOIST

21 + 20.74

COASTAL PLAIN BROWN LOOSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

ORANGE, RED VERY STIFF HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY, MOIST

ORANGE, BROWN, GRAY MEDIUM DENSE SAND, MOIST

20 + 69.85

(A) COASTAL PLAIN ORANGE, BROWN MEDIUM DENSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

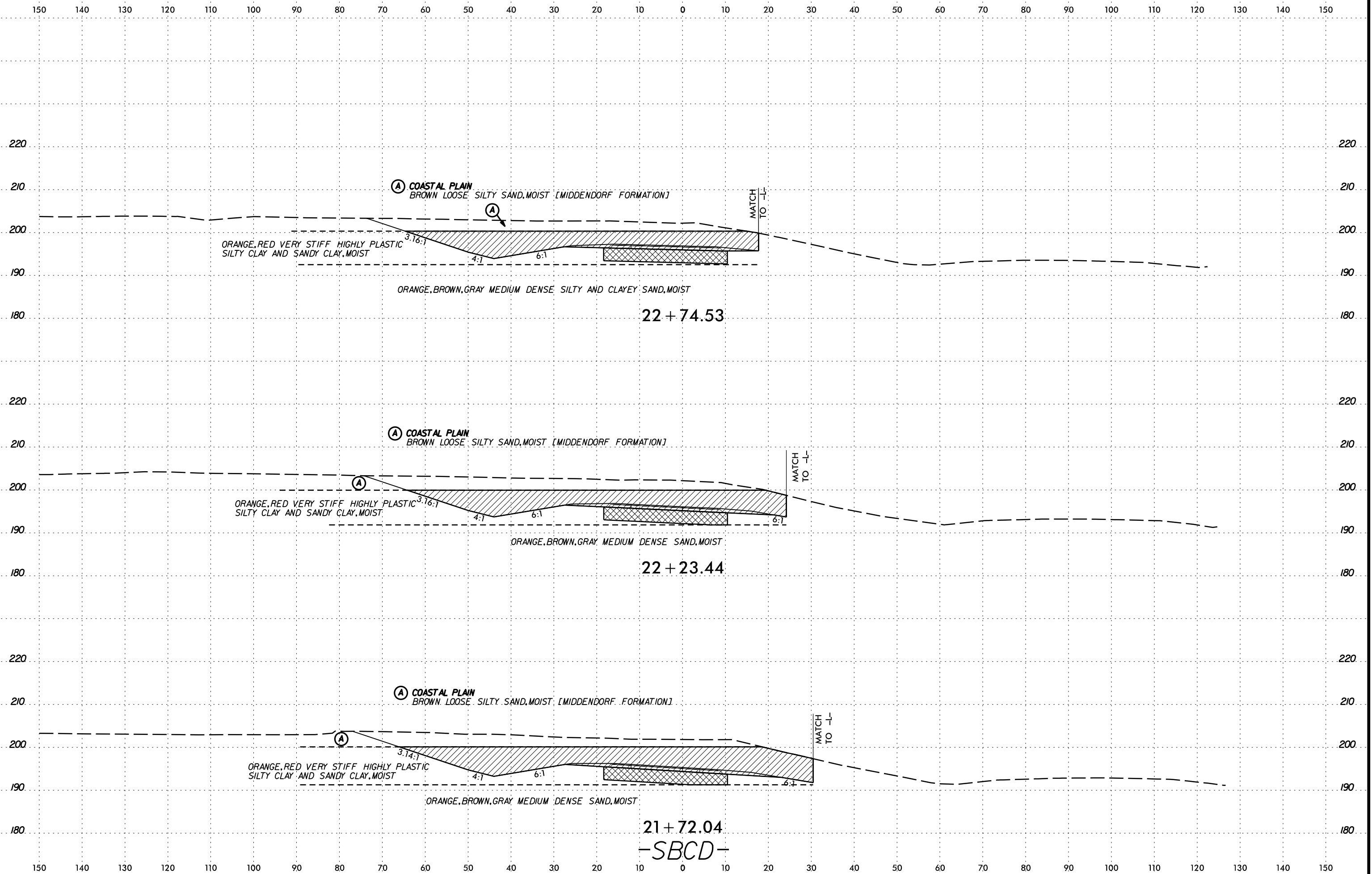
ORANGE, RED VERY STIFF HIGHLY PLASTIC SILTY CLAY AND SANDY CLAY, MOIST

ORANGE, RED, YELLOW, BROWN, PINK, GRAY MEDIUM DENSE TO LOOSE SILTY SAND AND SAND, MOIST

20 + 19.58

-SBCD-

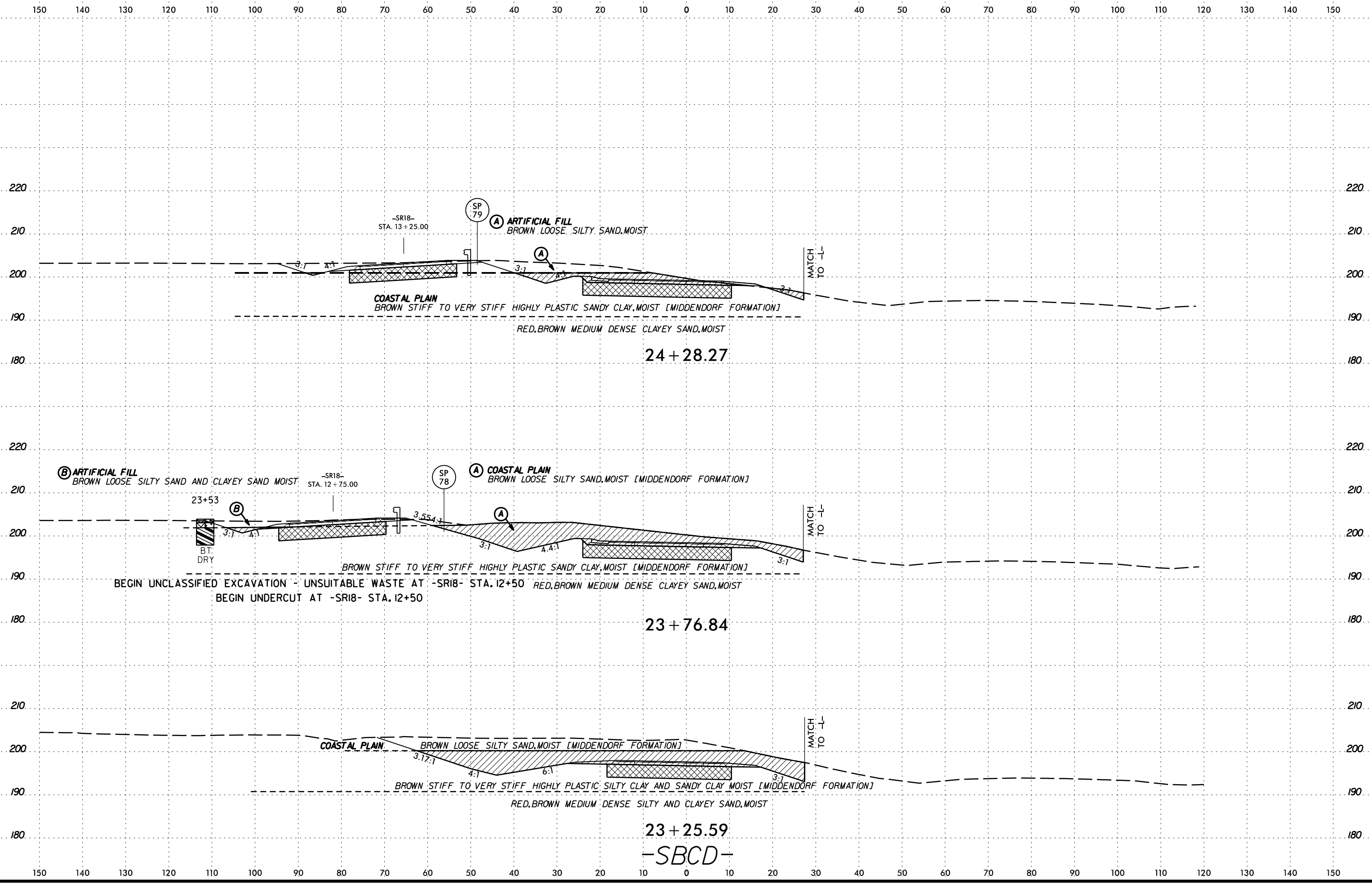
DATE: 6/23/16
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
SCALE: AS SHOWN
PROJECT: I-5986B
SHEET: 79

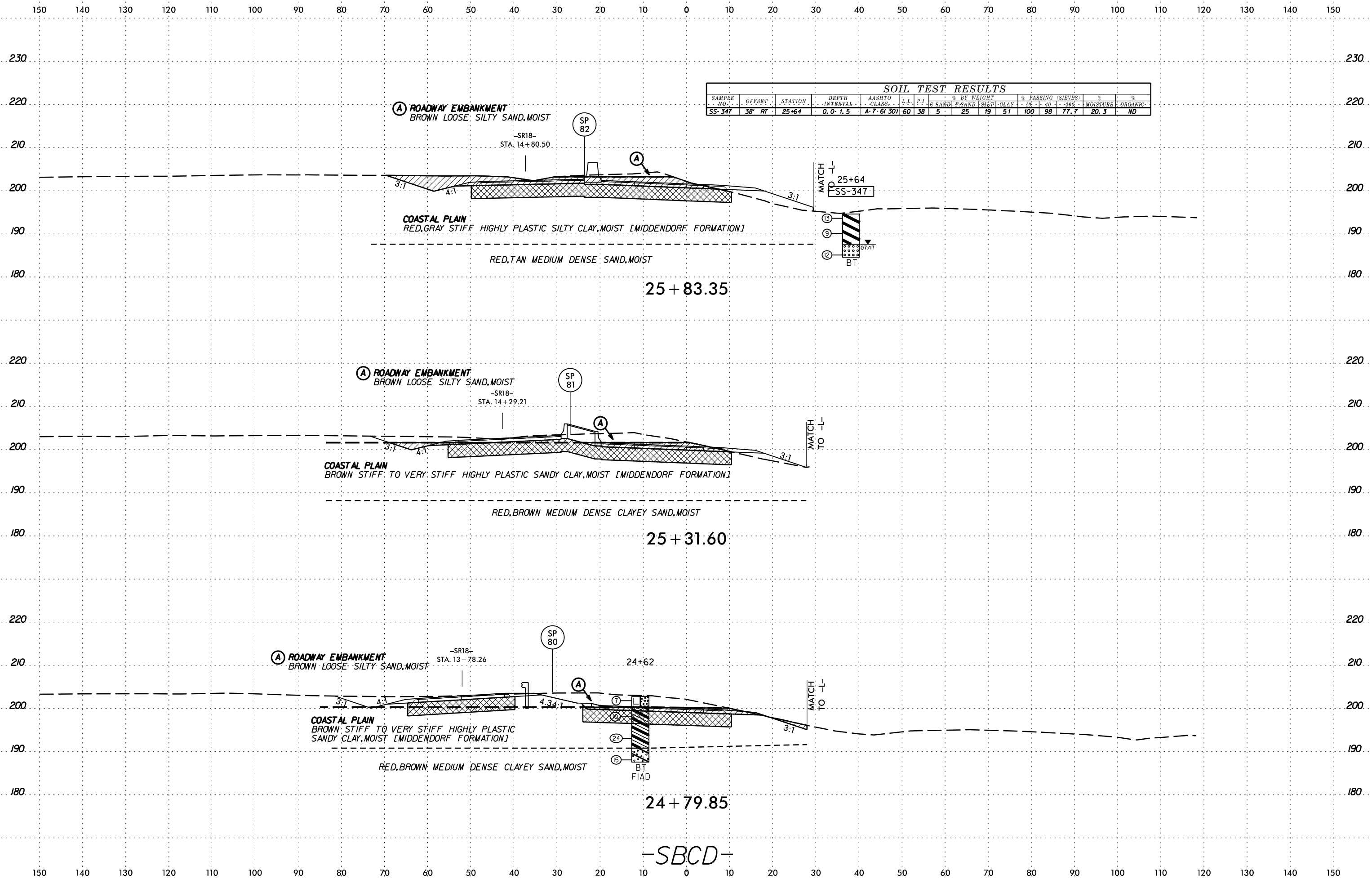


21 + 72.04
-SBCD-

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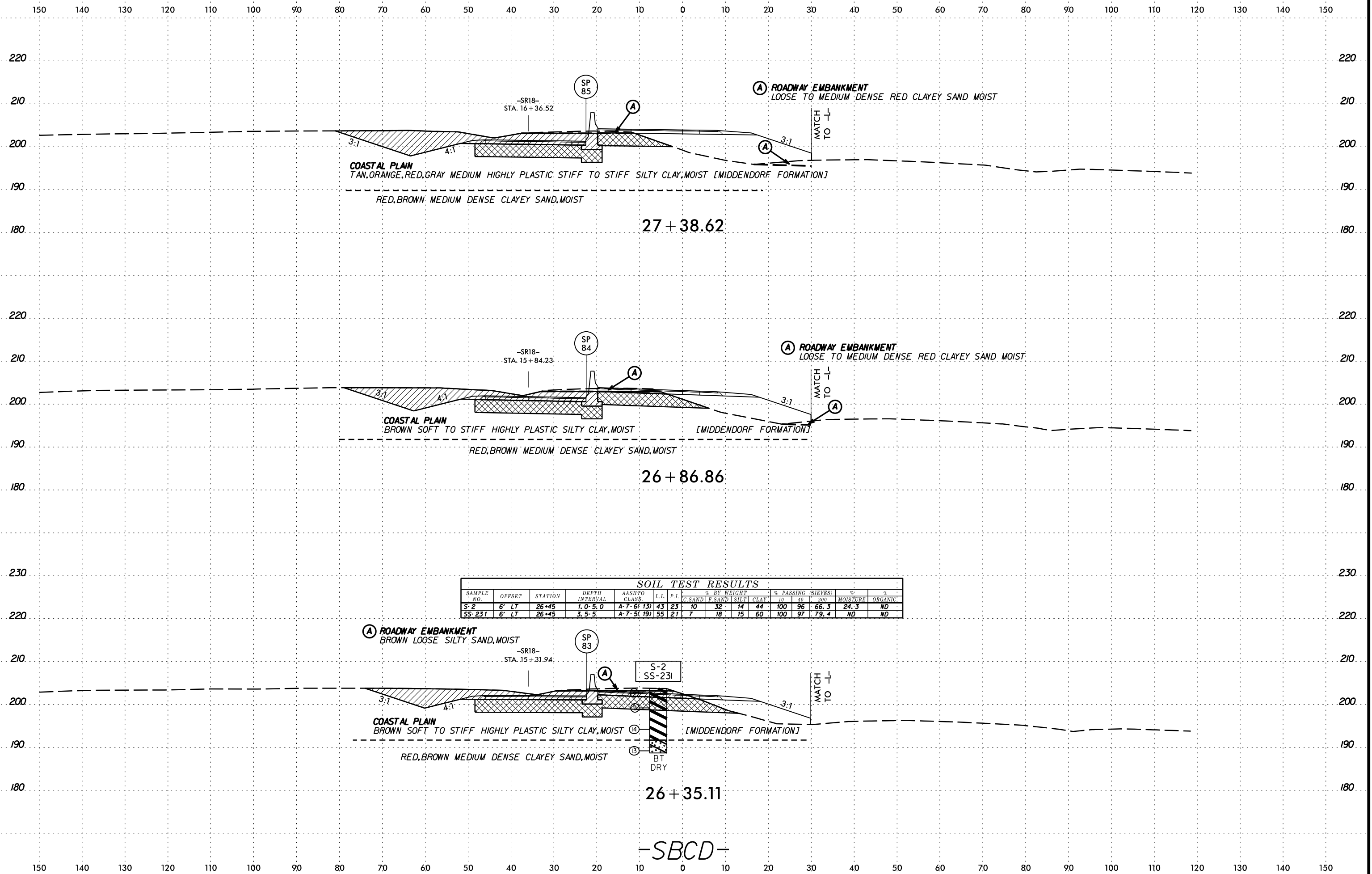


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT			% PASSING (SIEVES)		% MOISTURE	% ORGANIC		
							% SAND	% SILT	% CLAY	#10	#40	#200			
SS-347	38' RT	25+64	0.0-1.5	A-7-6(30)	60	38	5	25	19	51	100	98	77.7	20.3	ND

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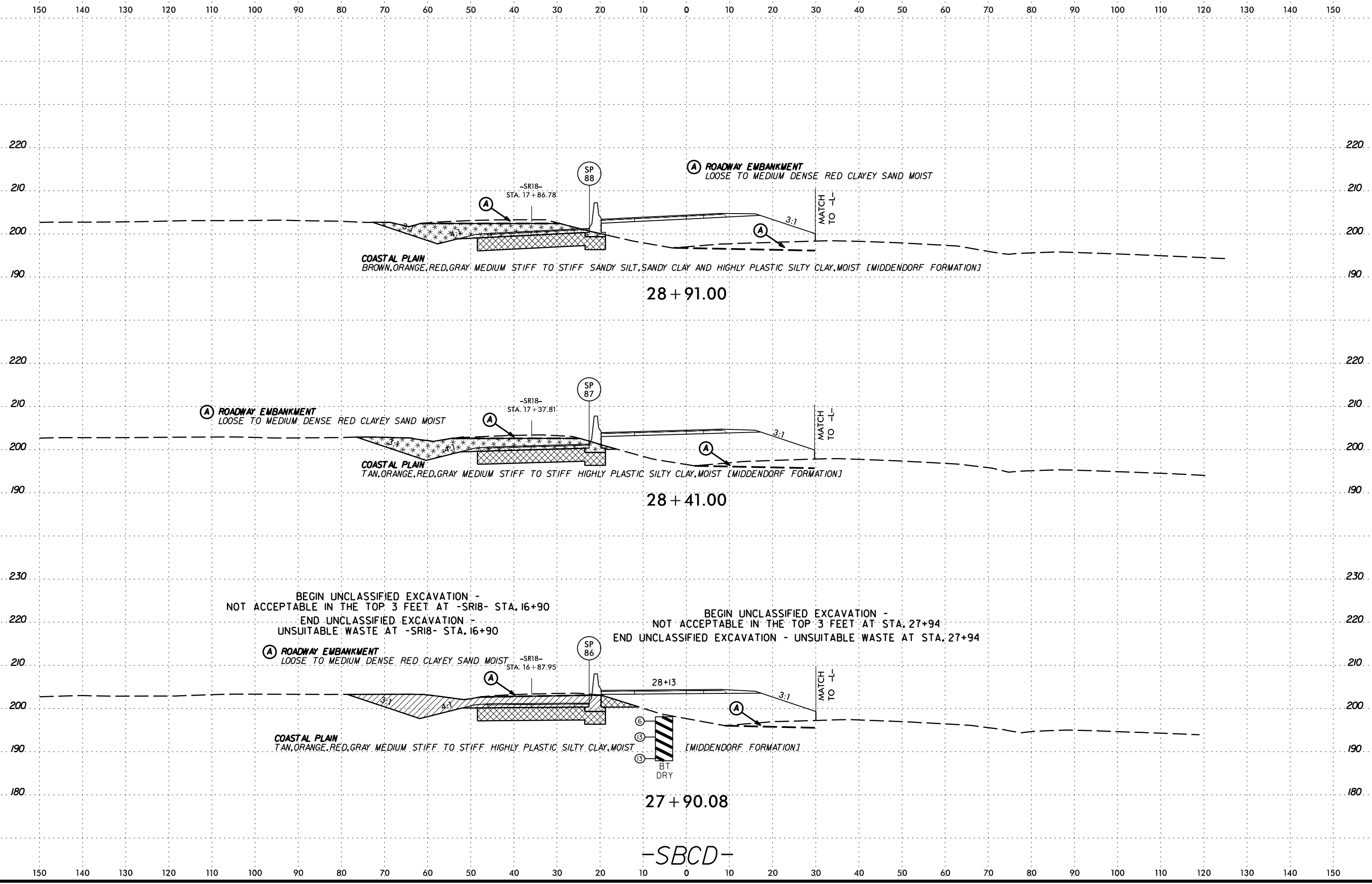
-SBCD-

6/23/16



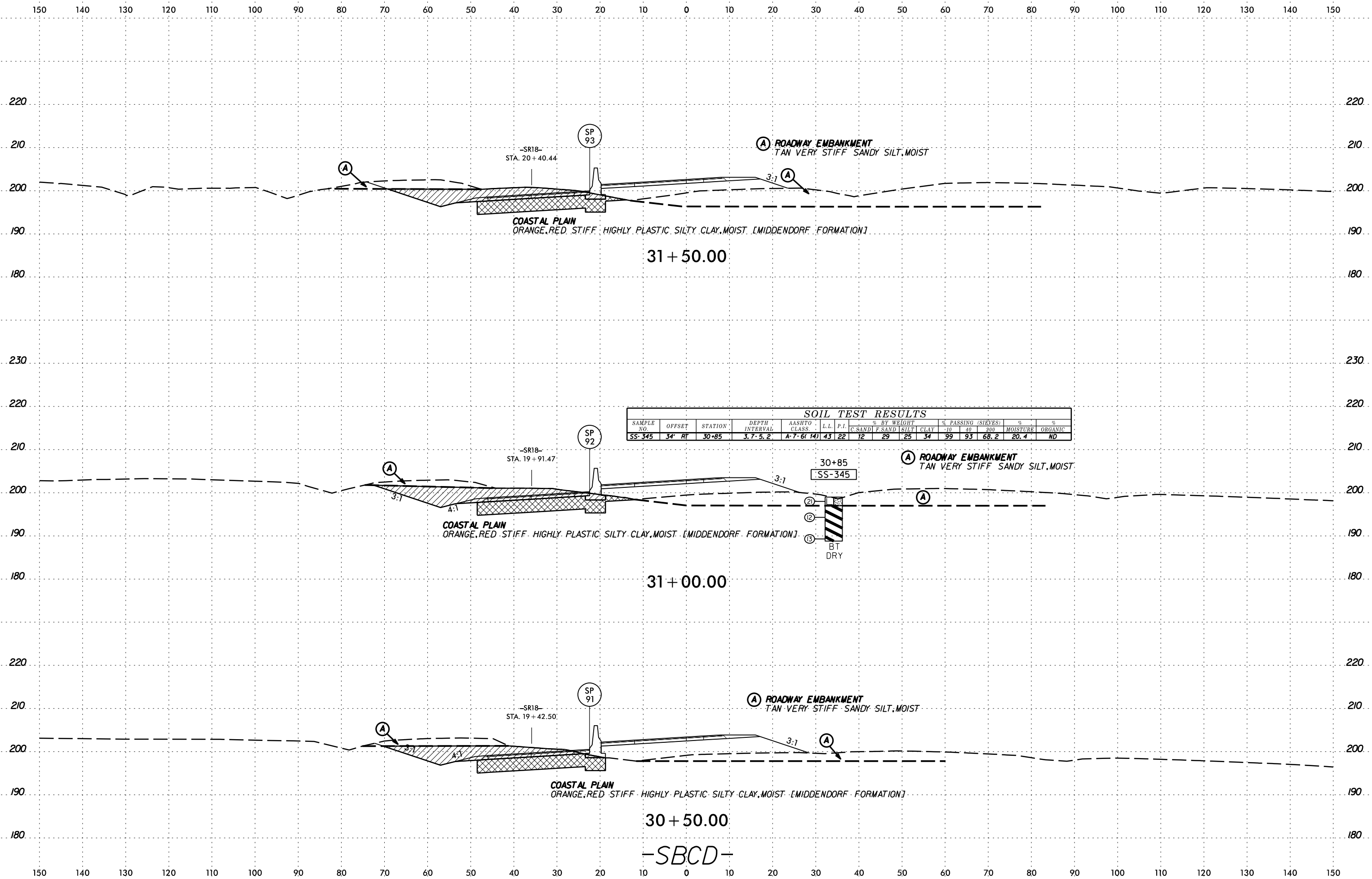
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-2	6' LT	26+45	1.0-5.0	A-7-6(13)	43	23	10	32	14	44	100	96	66.3	24.3	ND
SS-231	6' LT	26+45	3.5-5	A-7-5(19)	55	21	7	18	15	60	100	97	79.4	ND	ND

-SBCD-



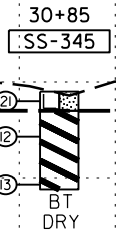
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DATE PLOTTED: 6/23/16 10:58 AM

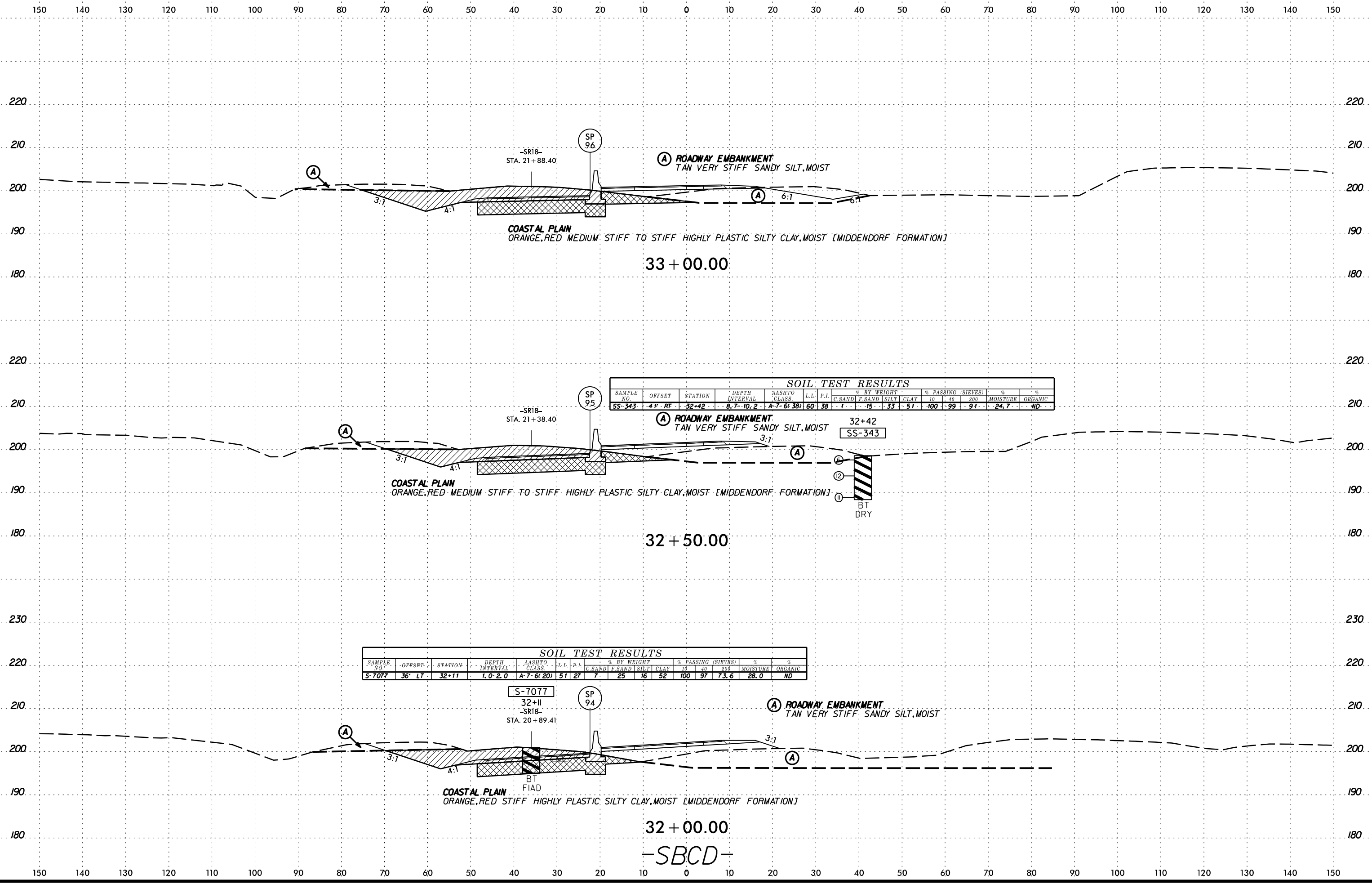


SOIL TEST RESULTS

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			
SS-345	34' RT	30+85	3.7'-5.2'	A-7-61	43	22	12	29	25	34	99	93	68.2	20.4	ND



SCHEMATIC SECTION
DATE: 6/23/16
BY: [unintelligible]
CHECKED: [unintelligible]
APPROVED: [unintelligible]



SOIL TEST RESULTS

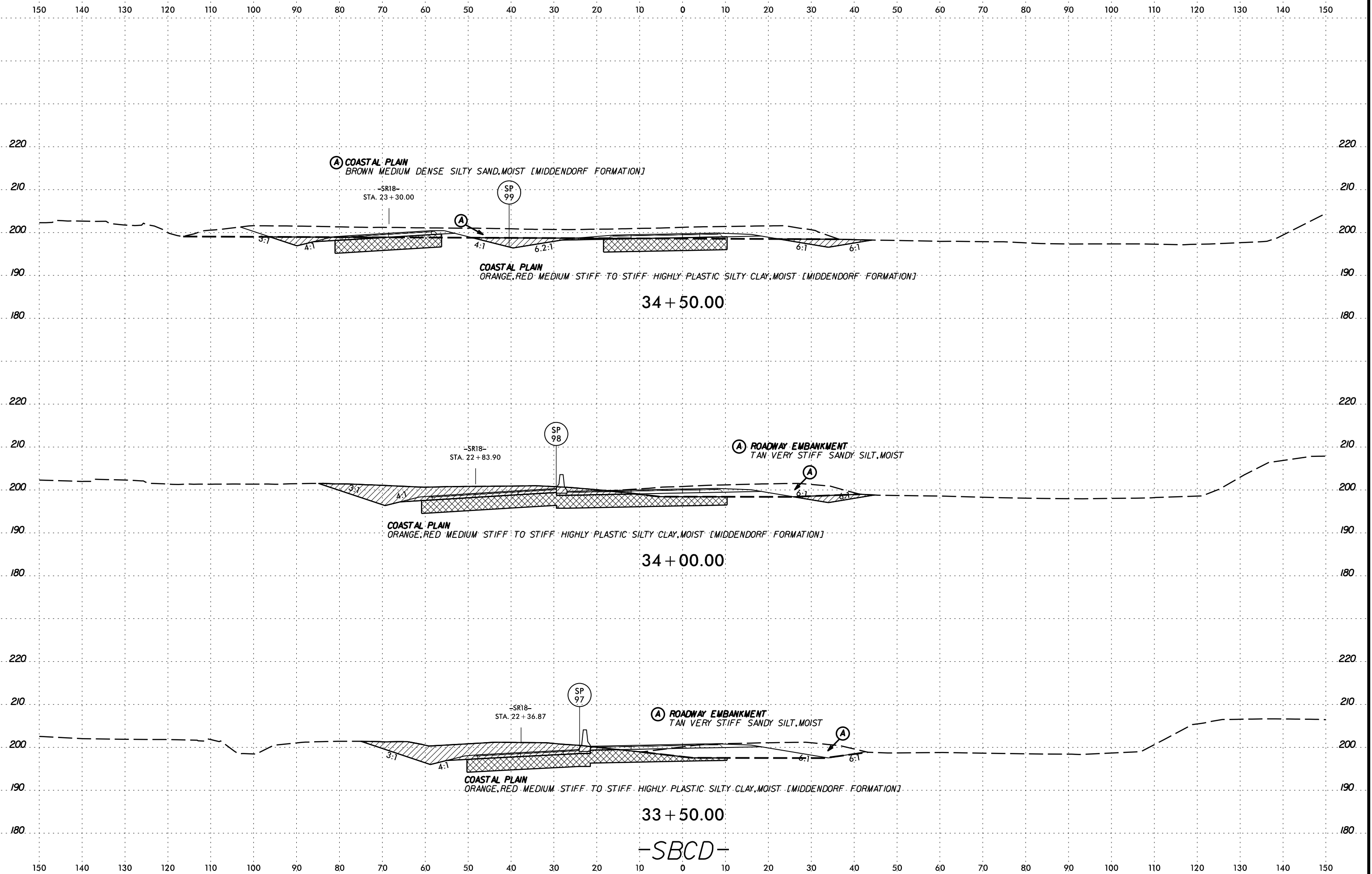
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-343	4' RF	32+42	8.7-10.2	A-7-6(38)	60	38	1	15	33	51	100	99	91	24.7	ND

SOIL TEST RESULTS

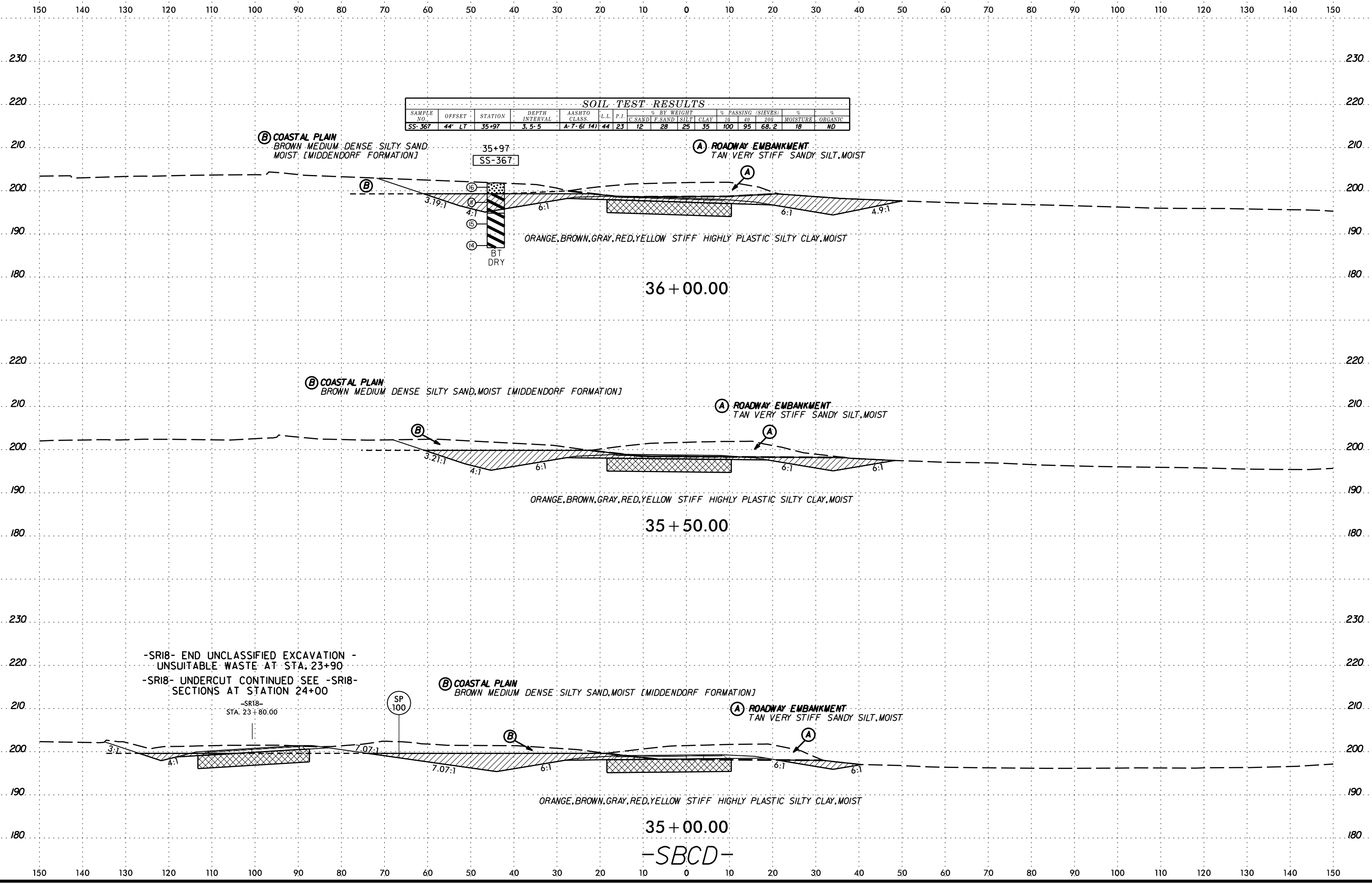
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-7077	36' LT	32+11	1.0-2.0	A-7-6(20)	51	27	7	25	16	52	100	97	73.6	28.0	ND

SCHEMATIC CONSTRUCTION

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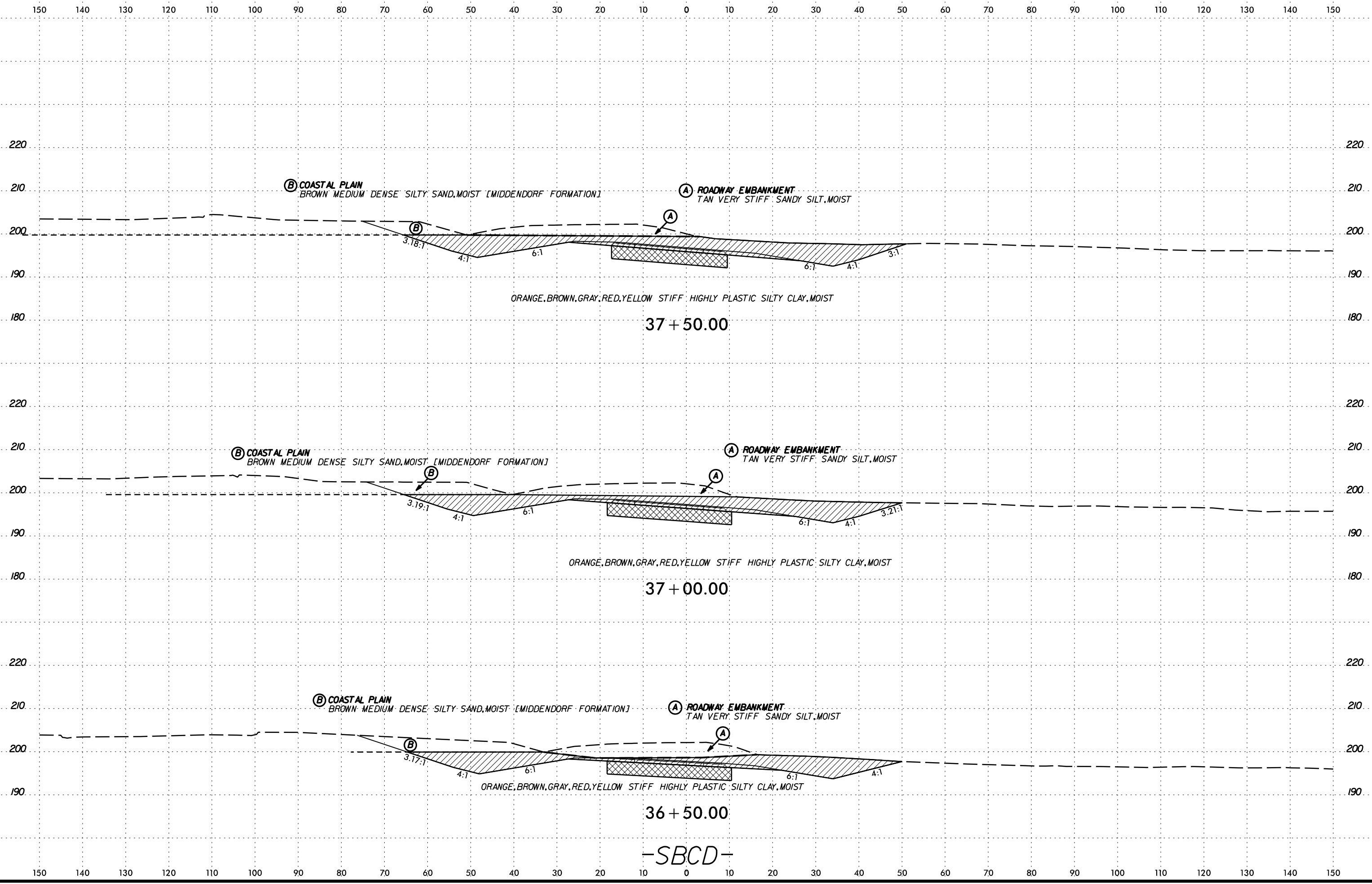


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE	% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-367	44' LT	35+97	3.5-5	A-7-6(14)	44	23	12	28	25	35	100	95	68.2	18	ND



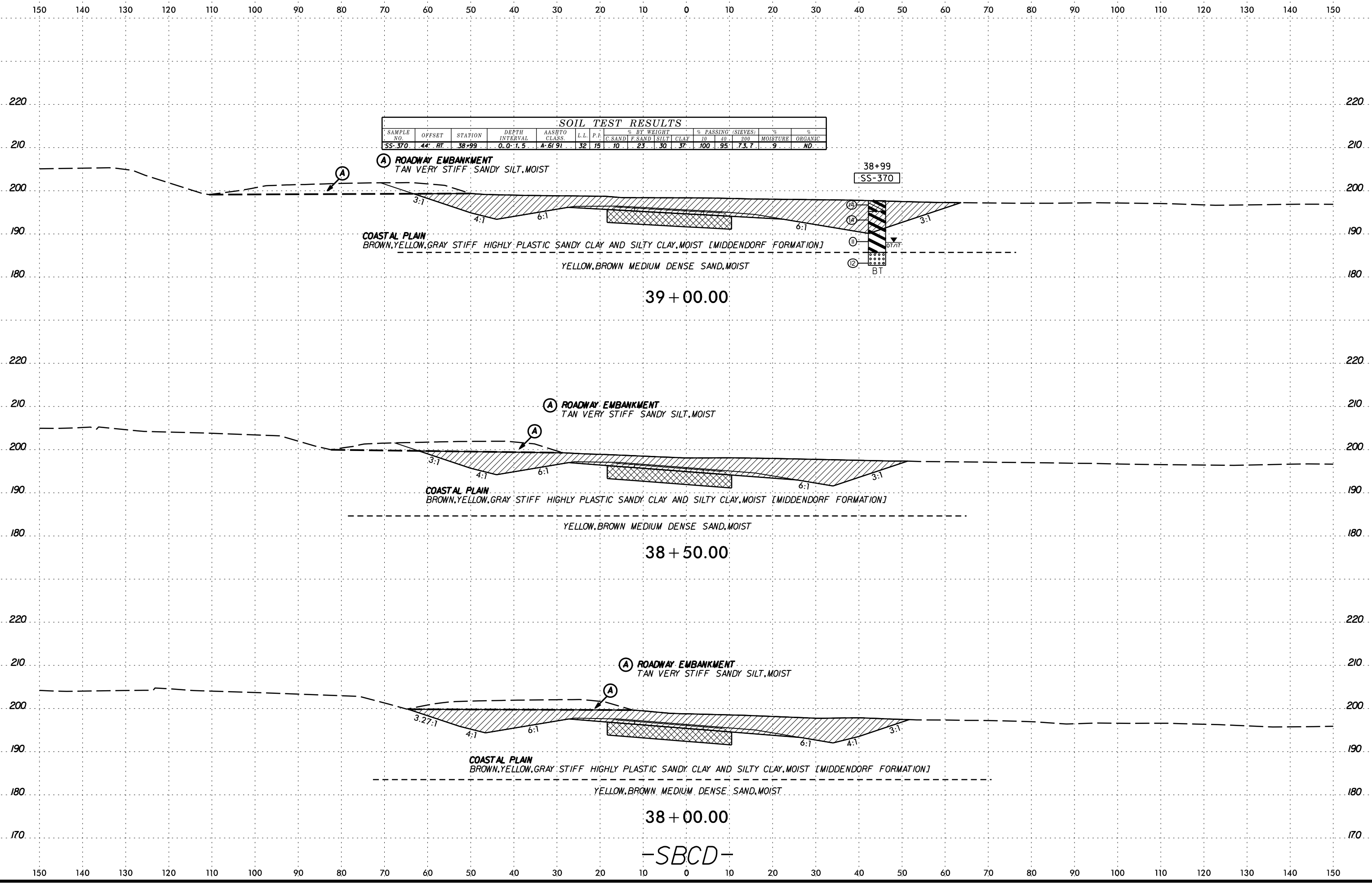
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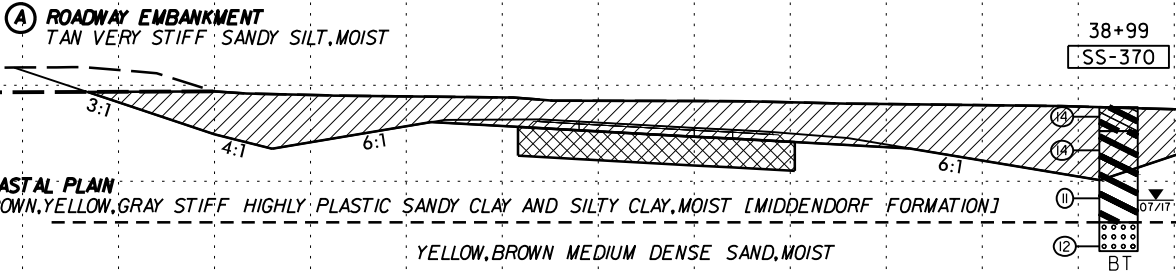
-SBCD-

SYTIME
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ARRIVE



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.F.	% BY WEIGHT				% PASSING (SIEVES)		MOISTURE	ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40			200
SS-370	44' RT	38+99	0.0-1.5	A-61 91	32	15	10	23	30	37	100	95	73.7	9	ND



39 + 00.00

ROADWAY EMBANKMENT
TAN VERY STIFF SANDY SILT, MOIST

COASTAL PLAIN
BROWN, YELLOW, GRAY STIFF HIGHLY PLASTIC SANDY CLAY AND SILTY CLAY, MOIST [MIDDENDORF FORMATION]

YELLOW, BROWN MEDIUM DENSE SAND, MOIST

38 + 50.00

ROADWAY EMBANKMENT
TAN VERY STIFF SANDY SILT, MOIST

COASTAL PLAIN
BROWN, YELLOW, GRAY STIFF HIGHLY PLASTIC SANDY CLAY AND SILTY CLAY, MOIST [MIDDENDORF FORMATION]

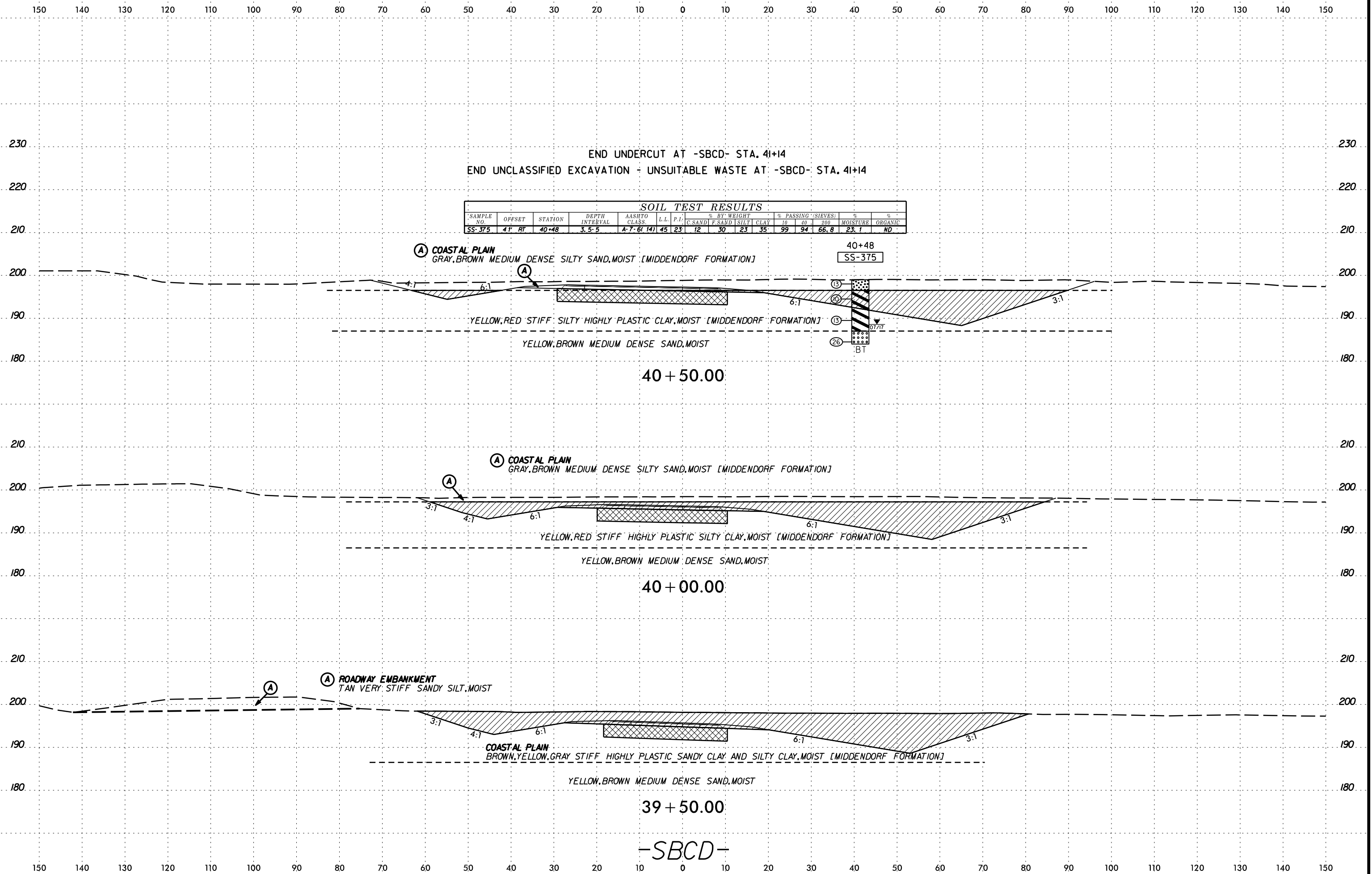
YELLOW, BROWN MEDIUM DENSE SAND, MOIST

38 + 00.00

-SBCD-

SCHEMATIC CROSS SECTION
DATE: 6/23/16
BY: [illegible]

6/23/16



END UNDERCUT AT -SBCD- STA. 41+14
 END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT -SBCD- STA. 41+14

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-375	4' RT	40+48	3.5-5	A-7-6(14)	45	23	12	30	23	35	99	94	66.8	23.1	ND

(A) COASTAL PLAIN
 GRAY, BROWN MEDIUM DENSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

(A) COASTAL PLAIN
 GRAY, BROWN MEDIUM DENSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

YELLOW, RED STIFF SILTY HIGHLY PLASTIC CLAY, MOIST [MIDDENDORF FORMATION]

YELLOW, BROWN MEDIUM DENSE SAND, MOIST

40 + 50.00

(A) COASTAL PLAIN
 GRAY, BROWN MEDIUM DENSE SILTY SAND, MOIST [MIDDENDORF FORMATION]

YELLOW, RED STIFF HIGHLY PLASTIC SILTY CLAY, MOIST [MIDDENDORF FORMATION]

YELLOW, BROWN MEDIUM DENSE SAND, MOIST

40 + 00.00

(A) ROADWAY EMBANKMENT
 TAN VERY STIFF SANDY SILT, MOIST

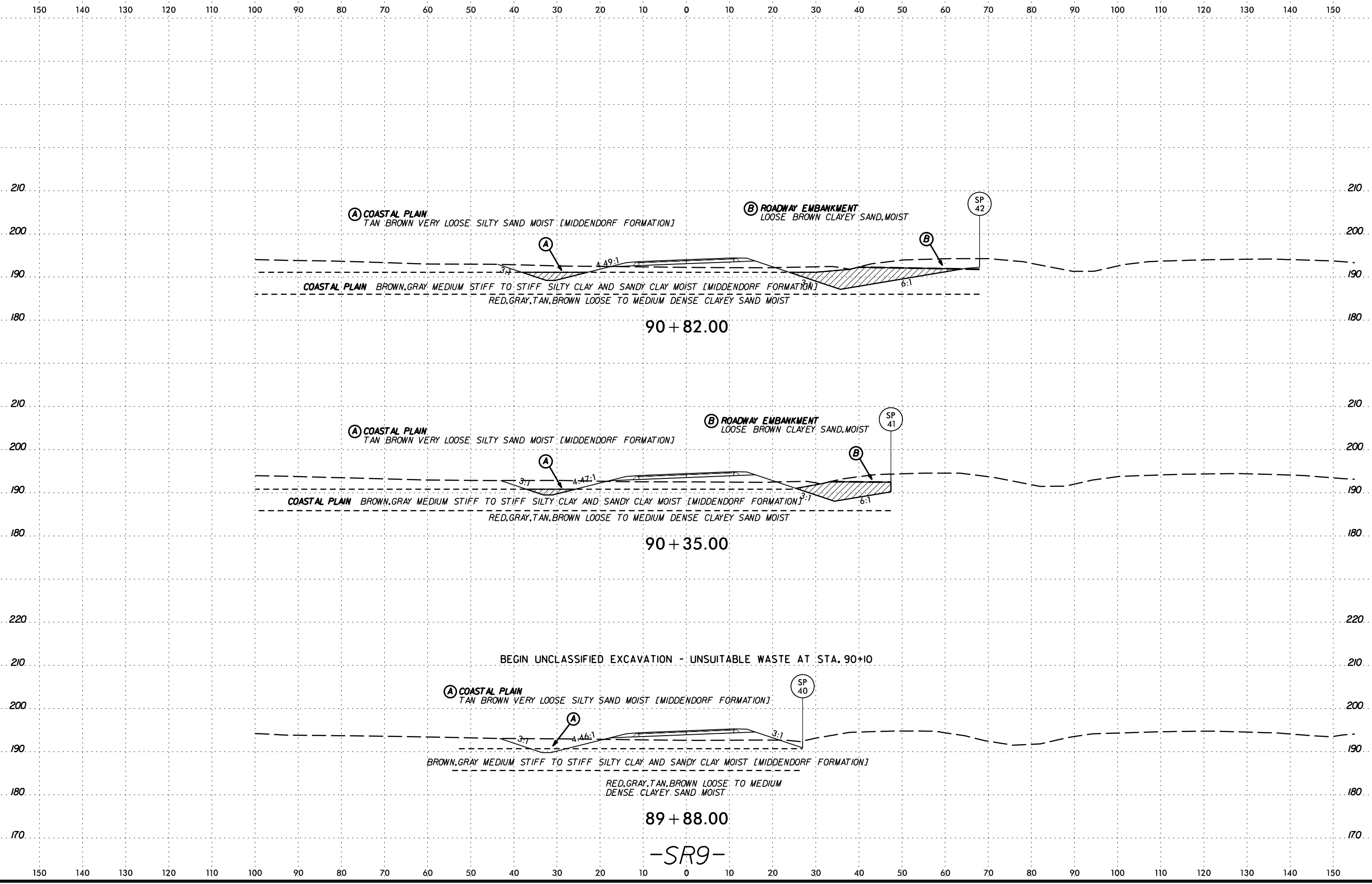
COASTAL PLAIN
 BROWN, YELLOW, GRAY STIFF HIGHLY PLASTIC SANDY CLAY AND SILTY CLAY, MOIST [MIDDENDORF FORMATION]

YELLOW, BROWN MEDIUM DENSE SAND, MOIST

39 + 50.00

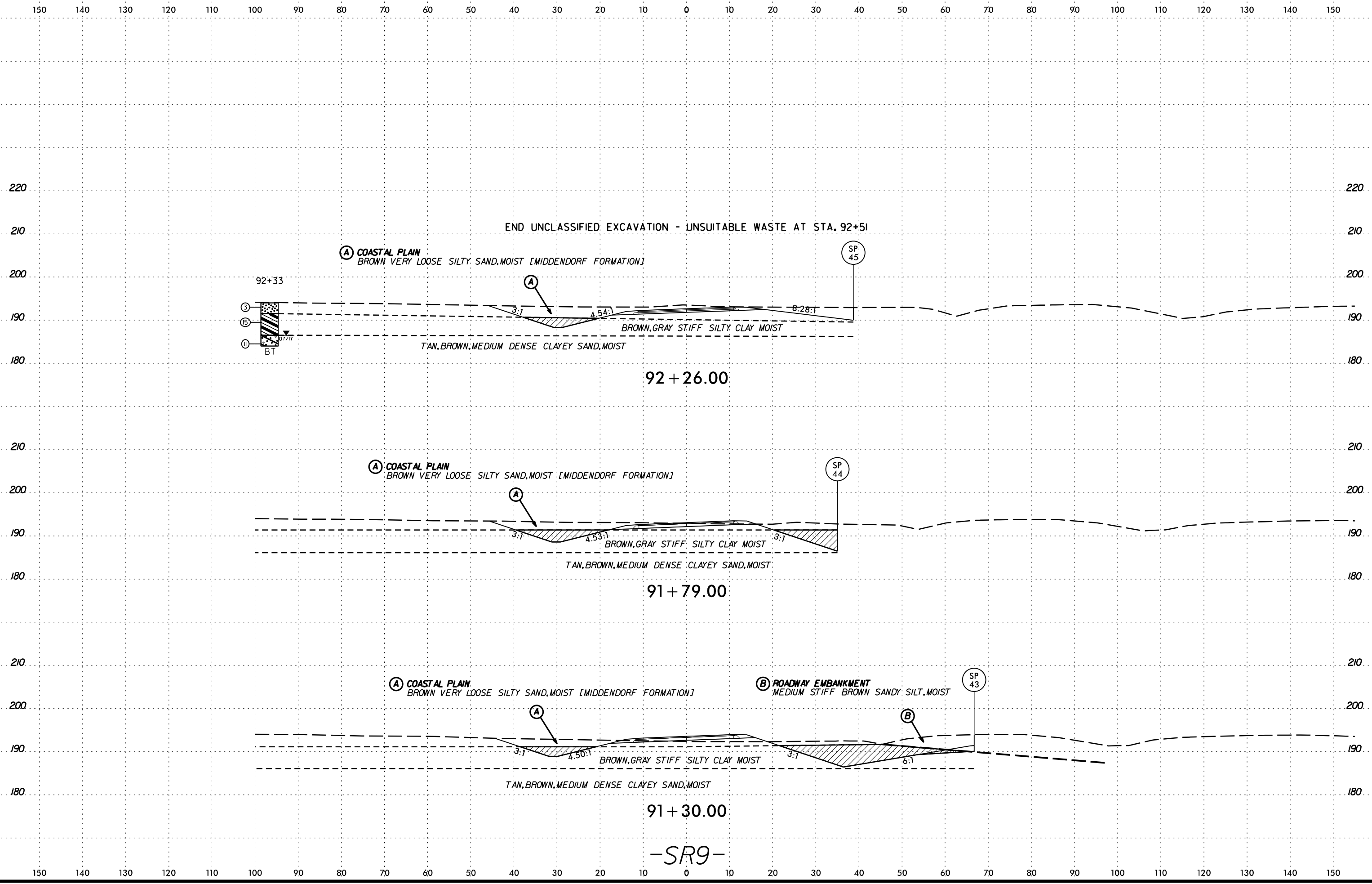
-SBCD-

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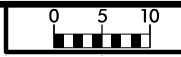
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CHECKED BY: [illegible]
SCALE: AS SHOWN



-SR9-

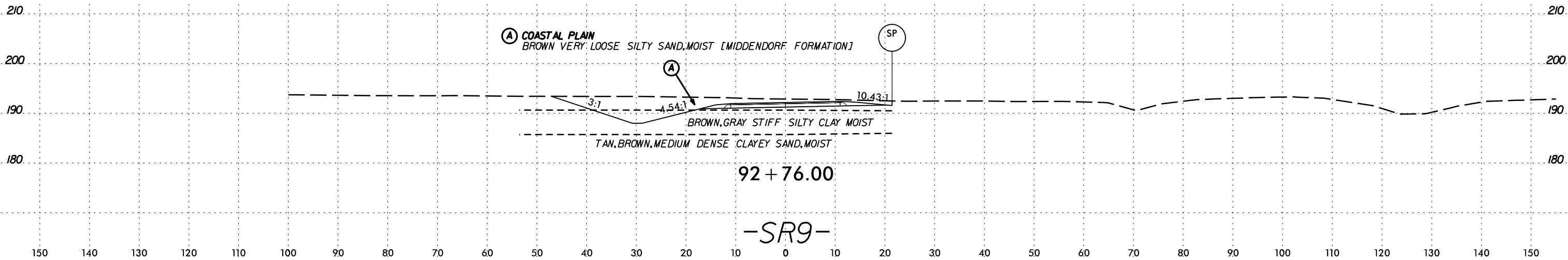
DATE: 6/23/16
DRAWN BY: J. BRYAN
CHECKED BY: J. BRYAN
SCALE: AS SHOWN

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
I-5986B	95

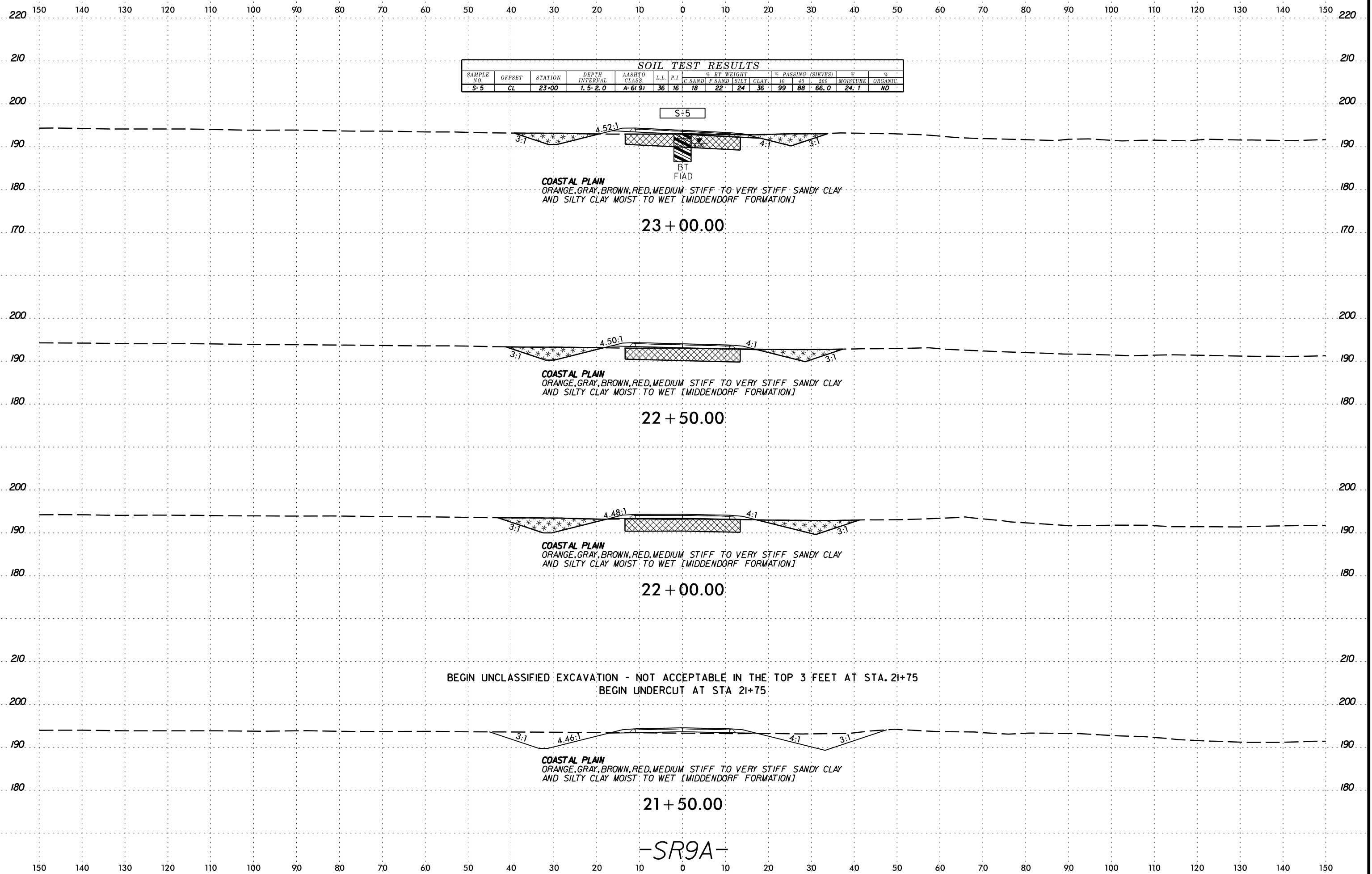
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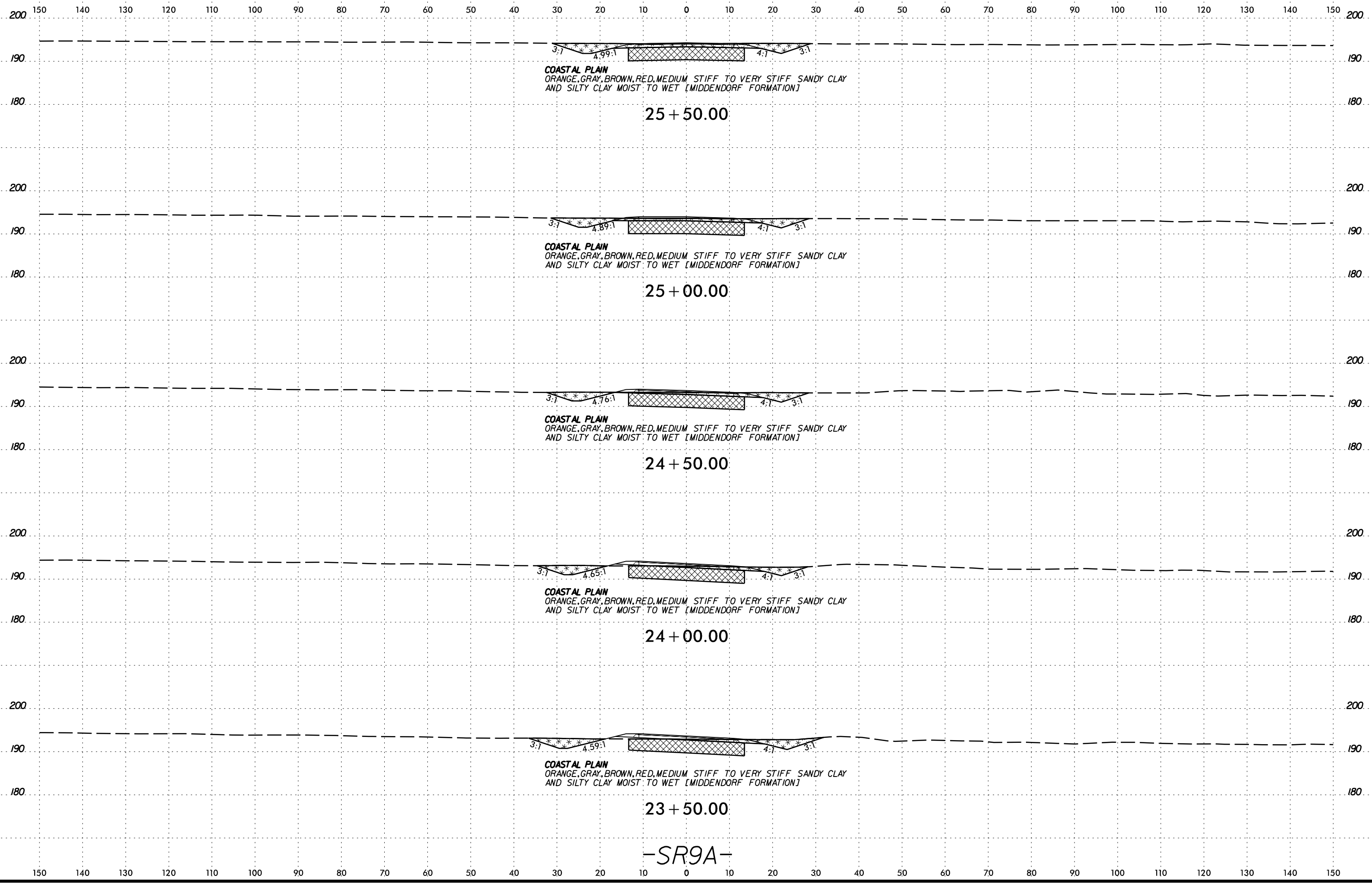
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DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN

6/23/16

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
S-5	CL	23+00	1.5'-2.0'	A-6(9)	36	16	C. SAND	F. SAND	SILT	CLAY	10	40	200		
							18	22	24	36	99	88	66.0	24.1	ND



-SR9A-



COASTAL PLAIN
 ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
 AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

25 + 50.00

COASTAL PLAIN
 ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
 AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

25 + 00.00

COASTAL PLAIN
 ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
 AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

24 + 50.00

COASTAL PLAIN
 ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
 AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

24 + 00.00

COASTAL PLAIN
 ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
 AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

23 + 50.00

-SR9A-

DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

6/23/16

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

210 210

200 200

190 190

180 180

END UNCLASSIFIED EXCAVATION - NOT ACCEPTABLE IN THE TOP 3 FEET AT STA. 27+79
END UNDERCUT AT STA 27+79

3:1 4:1 4:1 3:1

COASTAL PLAIN
ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

27 + 50.00

200 200

190 190

180 180

3:1 4:1 4:1 3:1

COASTAL PLAIN
ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

27 + 00.00

200 200

190 190

180 180

3:1 4:1 4:1 3:1

COASTAL PLAIN
ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

26 + 50.00

210 210

200 200

190 190

180 180

3:1 4:1 4:1 3:1

COASTAL PLAIN
ORANGE, GRAY, BROWN, RED, MEDIUM STIFF TO VERY STIFF SANDY CLAY
AND SILTY CLAY MOIST TO WET [MIDDENDORF FORMATION]

BT
FIAD

26 + 00.00

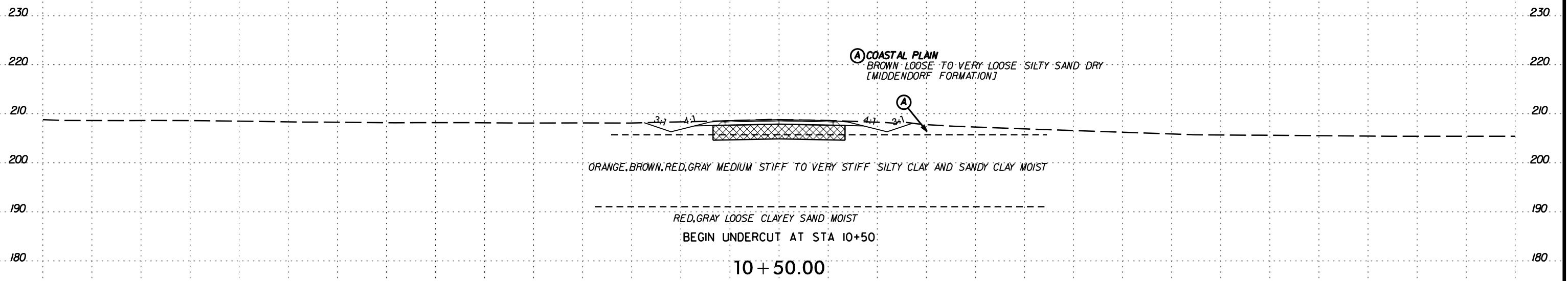
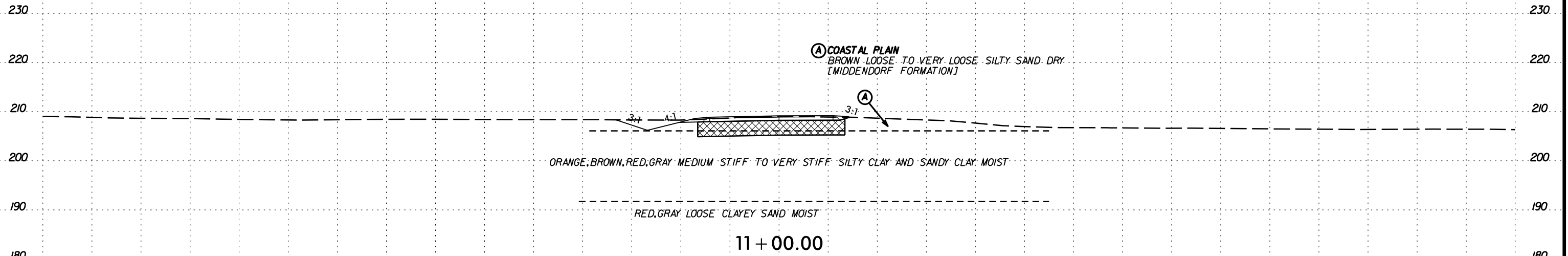
-SR9A-

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CHECKED BY: [unreadable]
SCALE: AS SHOWN
PROJECT: I-5986B
SHEET: 98



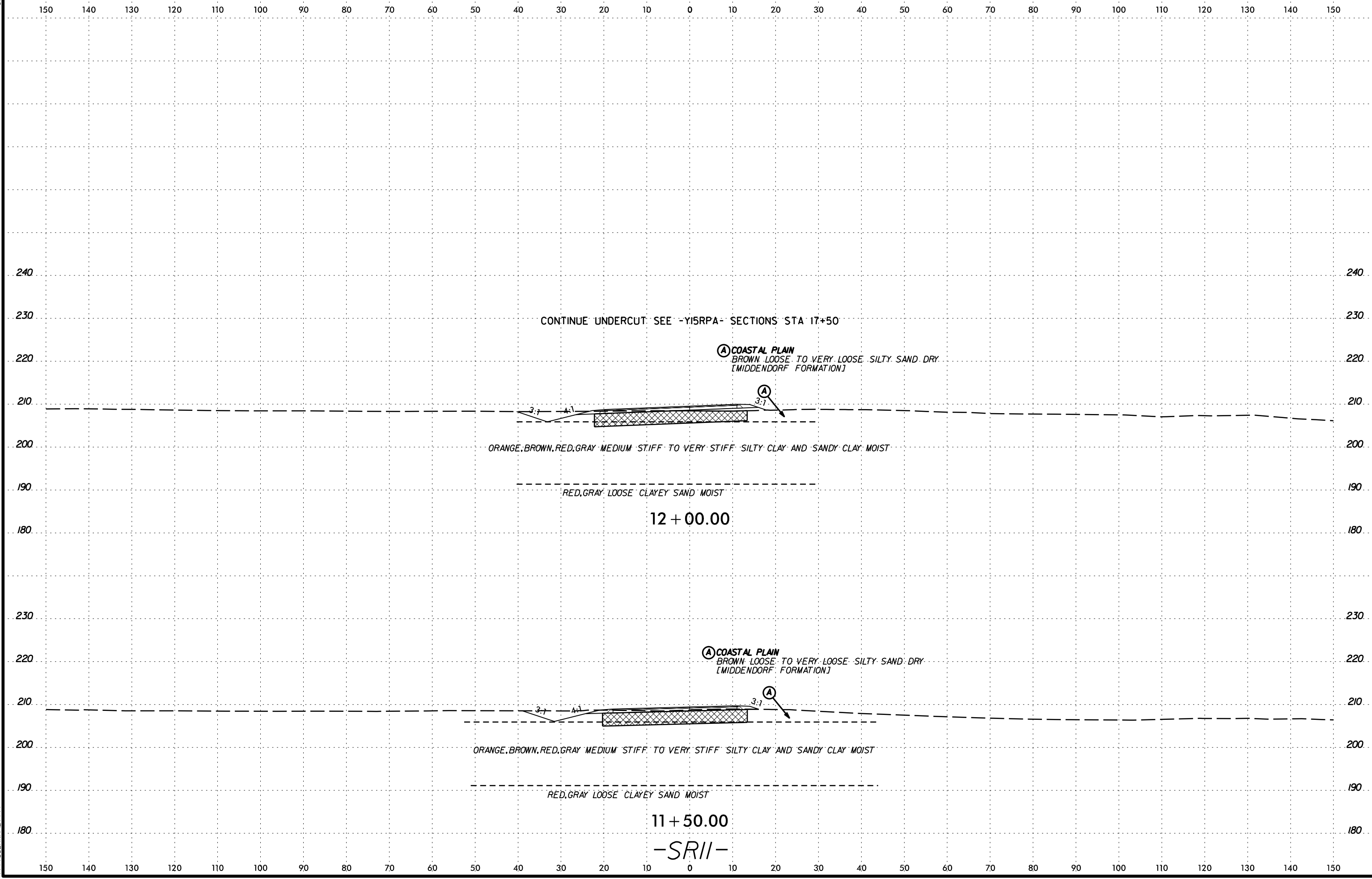
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-SR11-

DATE: 6/23/16
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CHECKED BY: [illegible]
SCALE: AS SHOWN

6/23/16



CONTINUE UNDERCUT SEE -YISRPA- SECTIONS STA 17+50

(A) COASTAL PLAIN
BROWN LOOSE TO VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

ORANGE, BROWN, RED, GRAY MEDIUM STIFF TO VERY STIFF SILTY CLAY AND SANDY CLAY MOIST

RED, GRAY LOOSE CLAYEY SAND MOIST

12 + 00.00

(A) COASTAL PLAIN
BROWN LOOSE TO VERY LOOSE SILTY SAND DRY
[MIDDENDORF FORMATION]

ORANGE, BROWN, RED, GRAY MEDIUM STIFF TO VERY STIFF SILTY CLAY AND SANDY CLAY MOIST

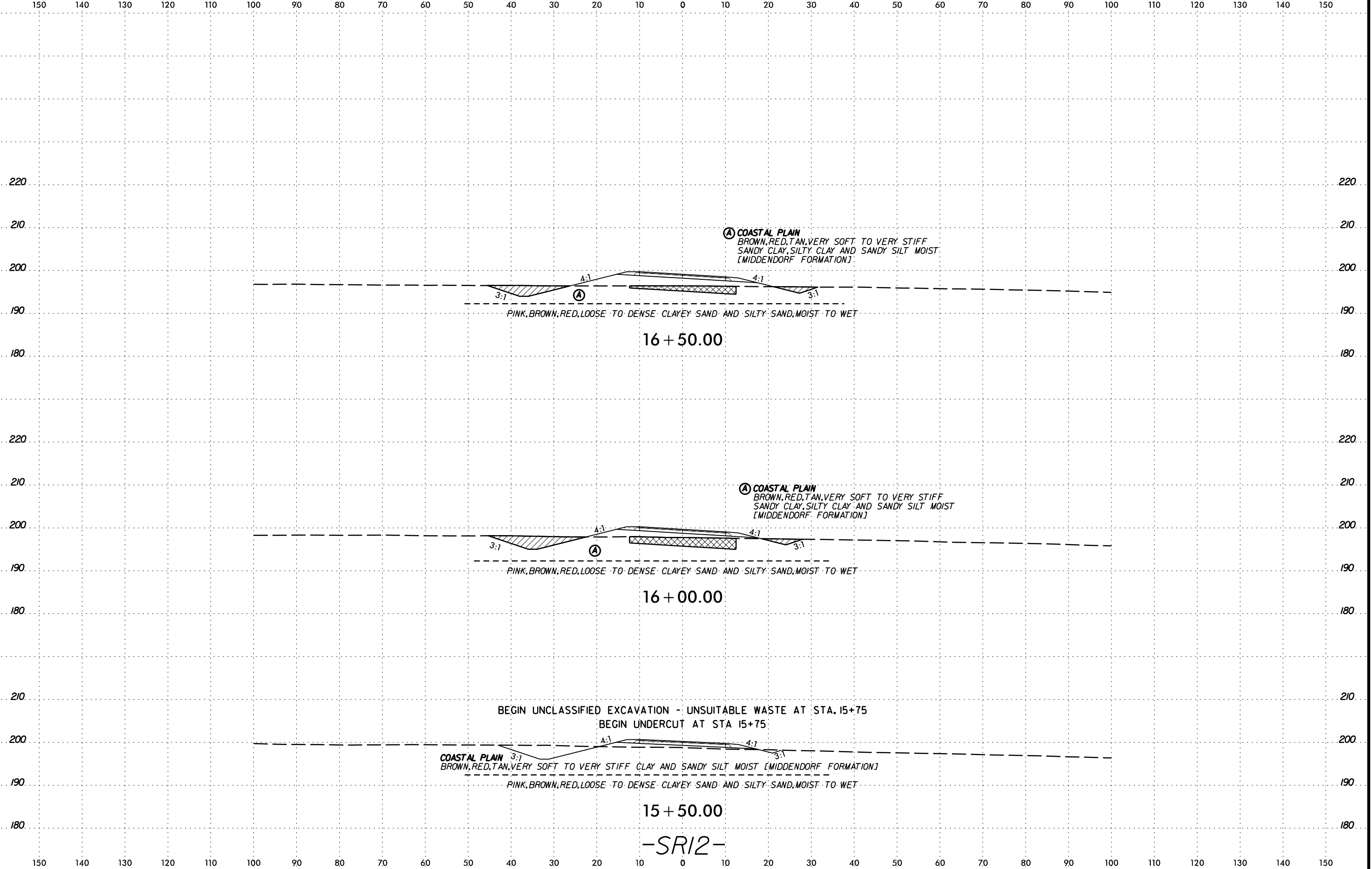
RED, GRAY LOOSE CLAYEY SAND MOIST

11 + 50.00

-SR11-

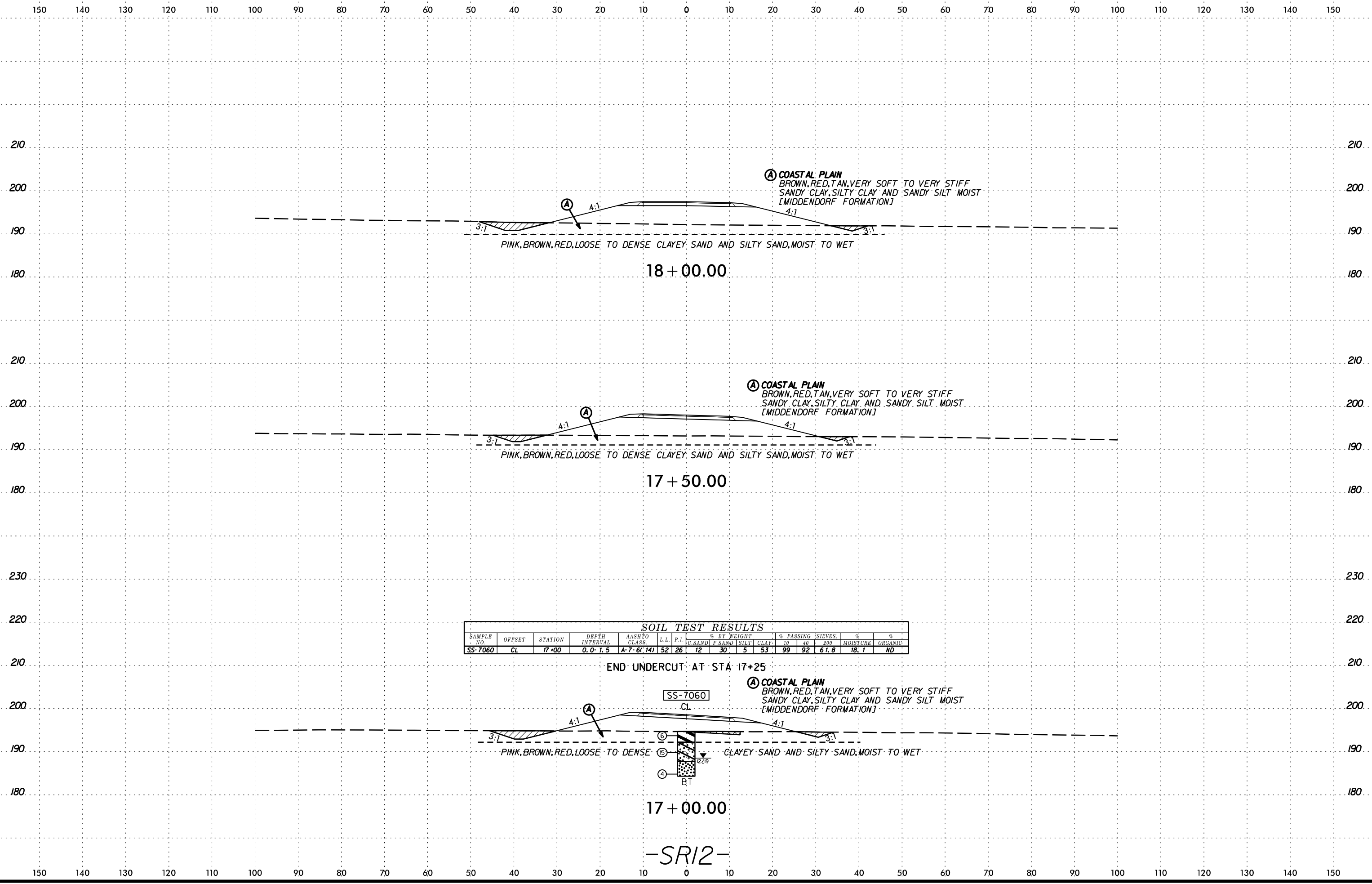
SECTION CONTINUED ON PREVIOUS SHEET

6/23/16



-SR12-

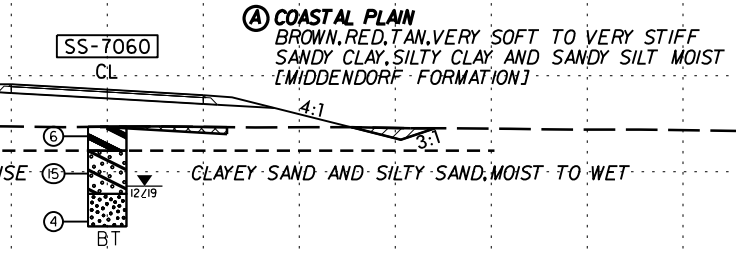
SCALE
DATE
DRAWN
CHECKED
APPROVED



SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-7060	CL	17+00	0.0-1.5	A-7-6(14)	52	26	12	30	5	53	99	92	61.8	18.1	ND

END UNDERCUT AT STA 17+25

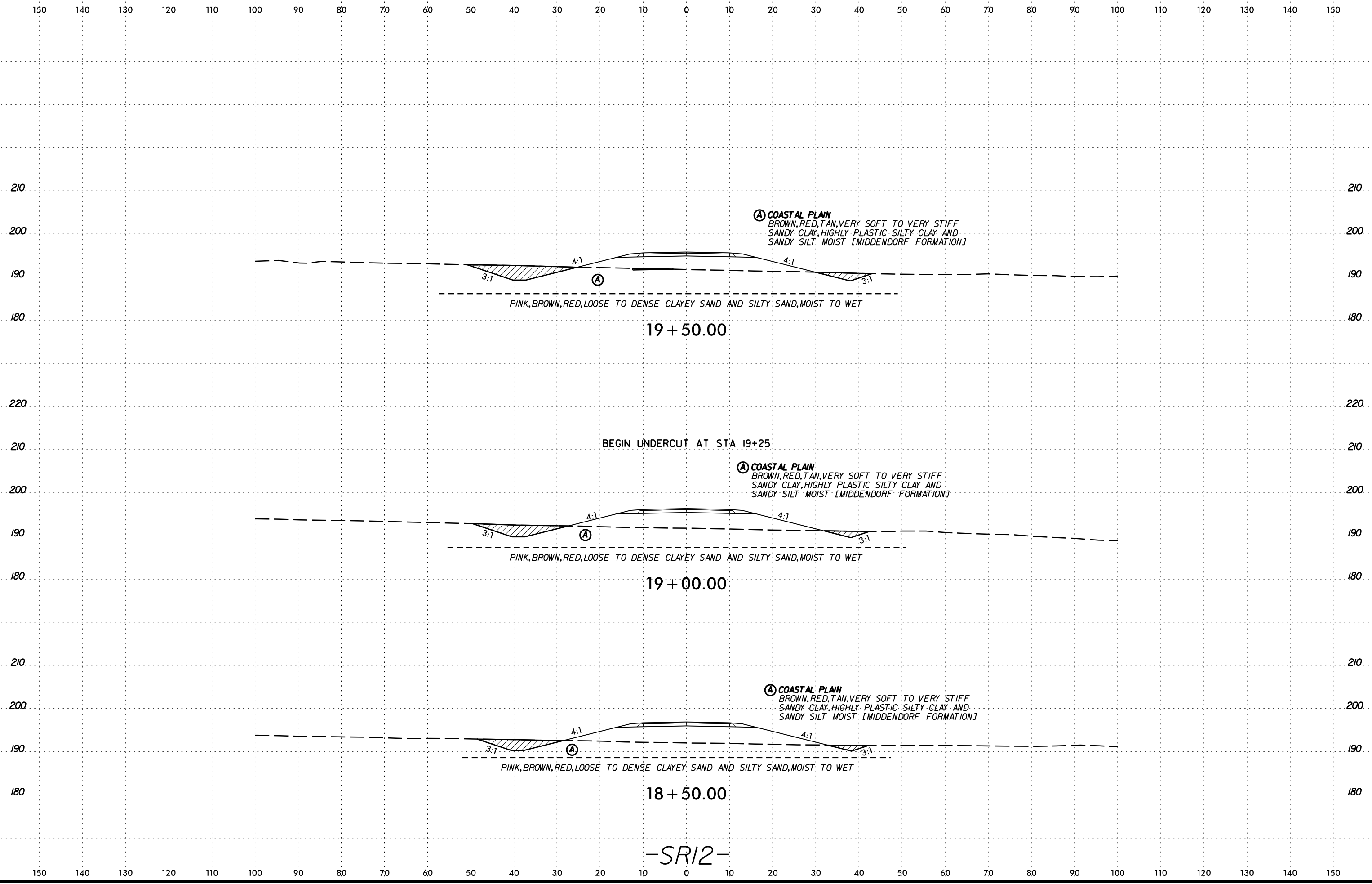


17+00.00

-SR12-

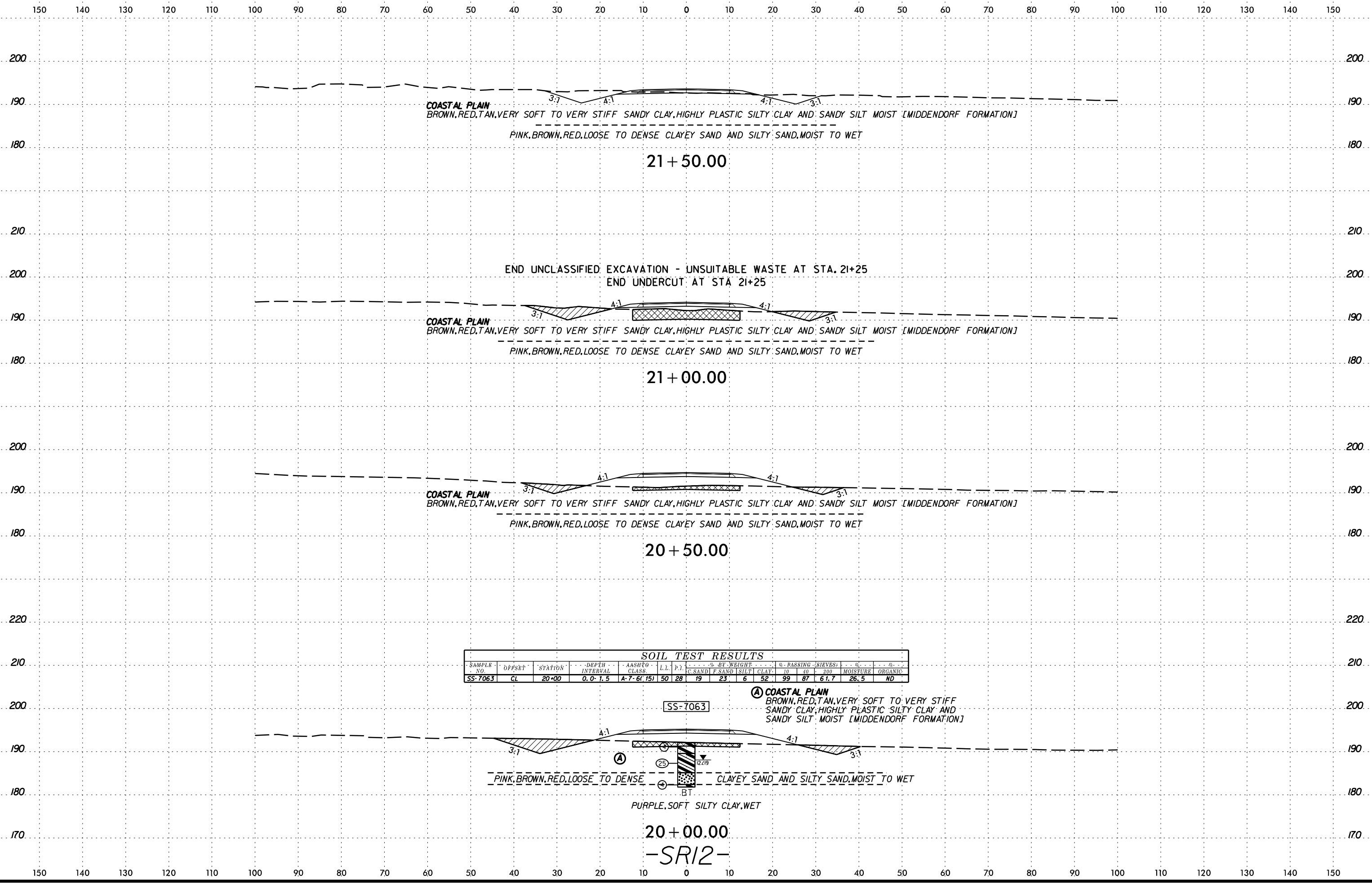
SCHEMATIC CROSS SECTION

6/23/16



-SR12-

SCHEMATIC CROSS SECTION
 1/2" = 10' (VERTICAL)
 1" = 100' (HORIZONTAL)



COASTAL PLAIN
 BROWN, RED, TAN, VERY SOFT TO VERY STIFF SANDY CLAY, HIGHLY PLASTIC SILTY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 PINK, BROWN, RED, LOOSE TO DENSE CLAYEY SAND AND SILTY SAND, MOIST TO WET

21 + 50.00

END UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE AT STA. 21+25
 END UNDERCUT AT STA 21+25

COASTAL PLAIN
 BROWN, RED, TAN, VERY SOFT TO VERY STIFF SANDY CLAY, HIGHLY PLASTIC SILTY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 PINK, BROWN, RED, LOOSE TO DENSE CLAYEY SAND AND SILTY SAND, MOIST TO WET

21 + 00.00

COASTAL PLAIN
 BROWN, RED, TAN, VERY SOFT TO VERY STIFF SANDY CLAY, HIGHLY PLASTIC SILTY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]
 PINK, BROWN, RED, LOOSE TO DENSE CLAYEY SAND AND SILTY SAND, MOIST TO WET

20 + 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-7063	CL	20+00	0.0 - 1.5	A-7-6(15)	50	28	19	23	6	52	99	87	61.7	26.5	ND

A **COASTAL PLAIN**
 BROWN, RED, TAN, VERY SOFT TO VERY STIFF SANDY CLAY, HIGHLY PLASTIC SILTY CLAY AND SANDY SILT MOIST [MIDDENDORF FORMATION]

SS-7063

PINK, BROWN, RED, LOOSE TO DENSE CLAYEY SAND AND SILTY SAND, MOIST TO WET

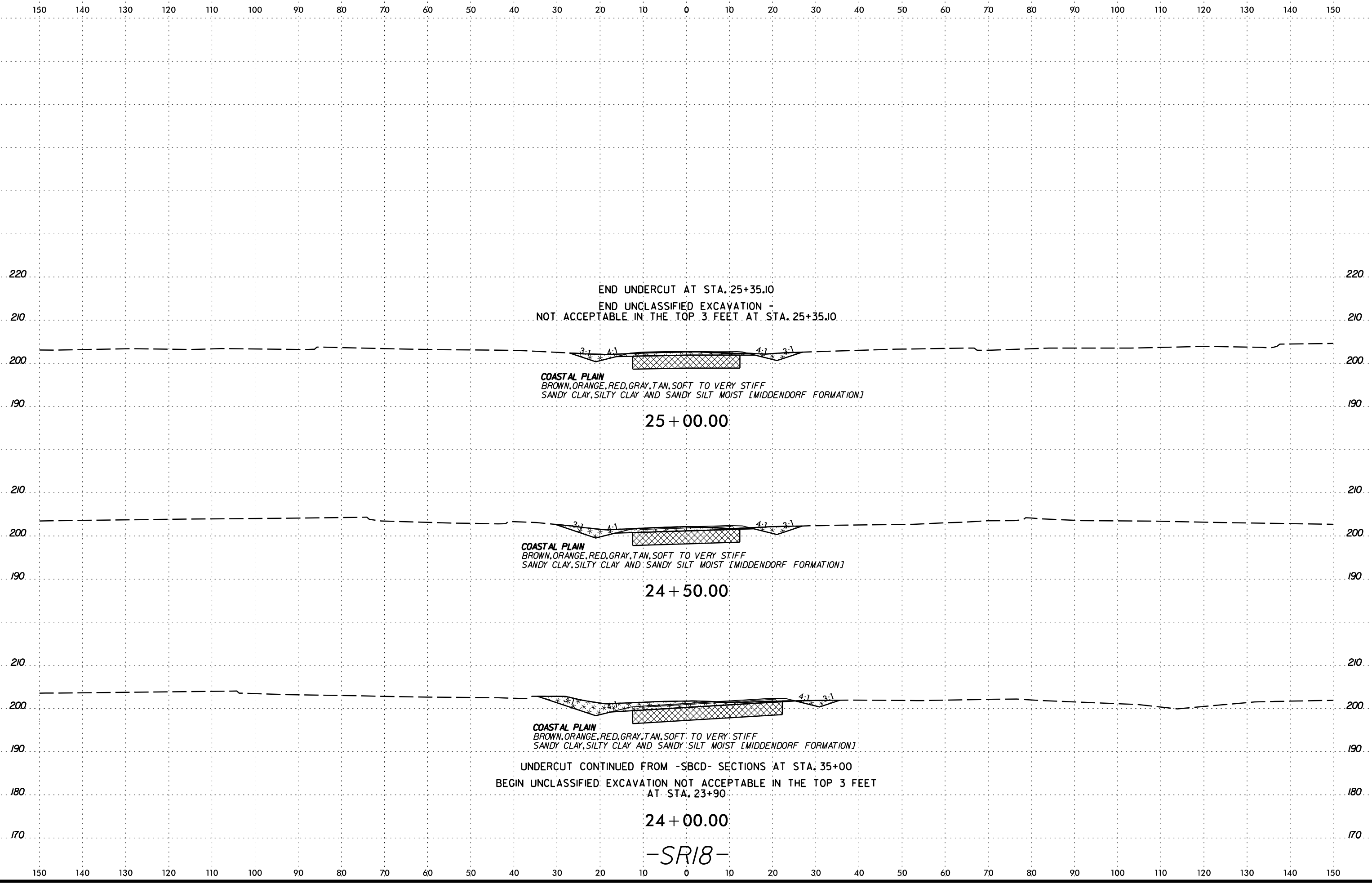
B
 PURPLE, SOFT SILTY CLAY, WET

20 + 00.00

-SR12-

SCHEMATIC CROSS SECTION OF EXCAVATION

6/23/16



SCHEMATIC CROSS SECTION
DATE: 6/23/16
DRAWN BY: [illegible]