

(A) UNDIVIDED COASTAL PLAIN
 LOOSE LIGHT BROWN, ORANGE SILTY FINE SAND (A-2-4) WITH TRACE ORGANICS, WET

(B) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN FINE SAND (A-3), MOIST

UNDIVIDED COASTAL PLAIN
 VERY STIFF, GRAY, BROWN FINE TO COARSE SILTY CLAY (A-7), MOIST

MEDIUM DENSE, ORANGE, BROWN, WHITE SILTY FINE TO COARSE SAND (A-2-4), SAT.

762 + 50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)		% MOISTURE ORGANIC		
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-27	75' RT	762+00	3.3-4.8	A-7-6(7)	41	21	32.0	22.0	7.0	39.0	100.0	79.0	49.0	17.4	ND

(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN FINE SAND (A-3), MOIST

UNDIVIDED COASTAL PLAIN
 DENSE, LIGHT GRAY VERY STIFF, RED CLAY (A-7-6), MOIST
 CLAYEY SAND (A-2-6), WET

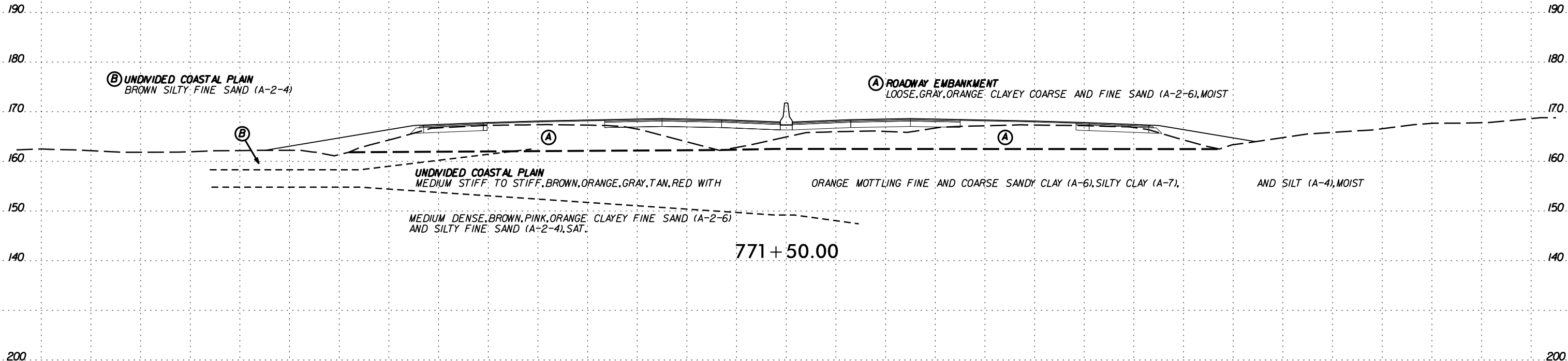
762 + 00.00

-L-

SCHEMATIC CROSS SECTION
 OF
 ROADWAY EMBANKMENT
 AT
 STATION 762+00.00

6/23/16

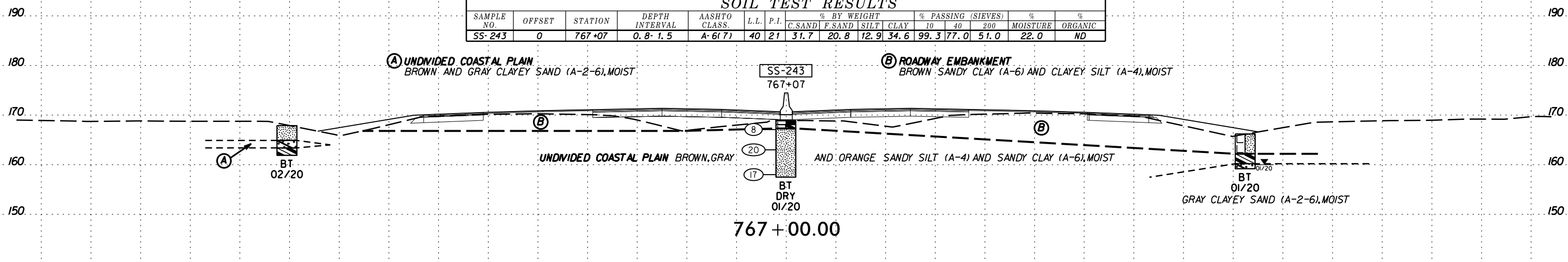
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771 + 50.00

SOIL TEST RESULTS

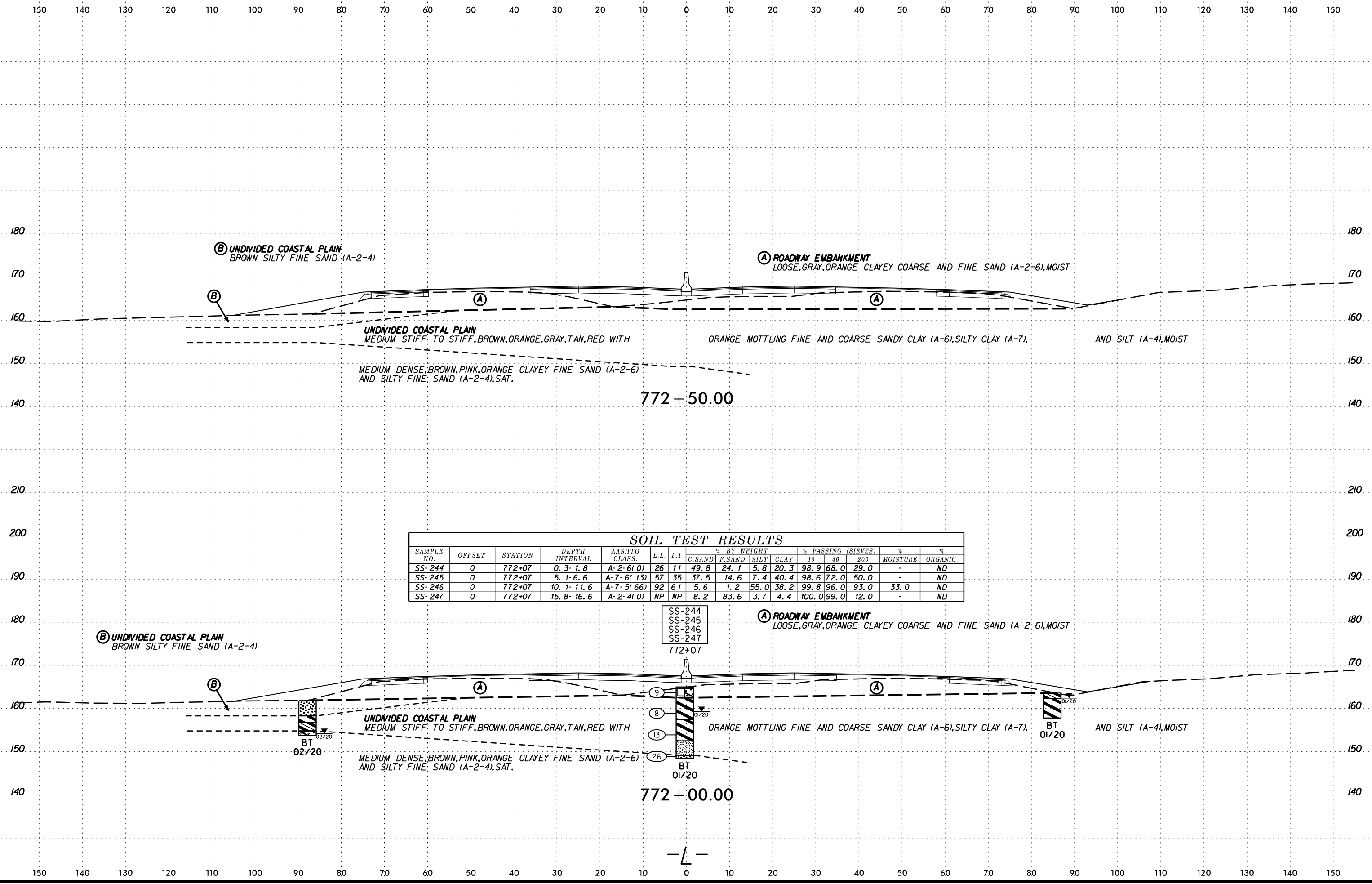
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							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-243	0	767+07	0.8 - 1.5	A-6(7)	40	21	31.7	20.8	12.9	34.6	99.3	77.0	51.0	22.0	ND



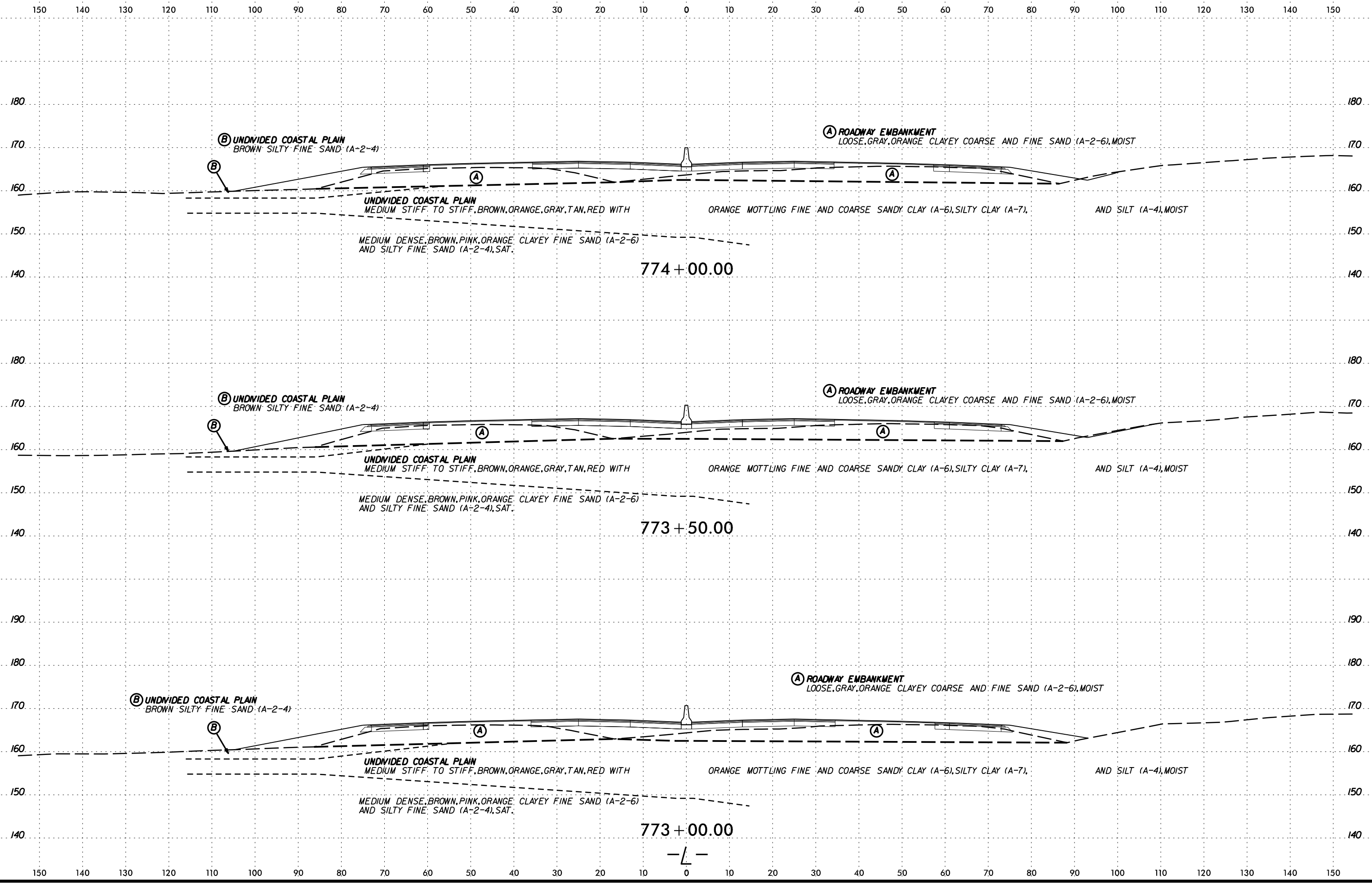
767 + 00.00

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DATE PLOTTED: 6/23/16

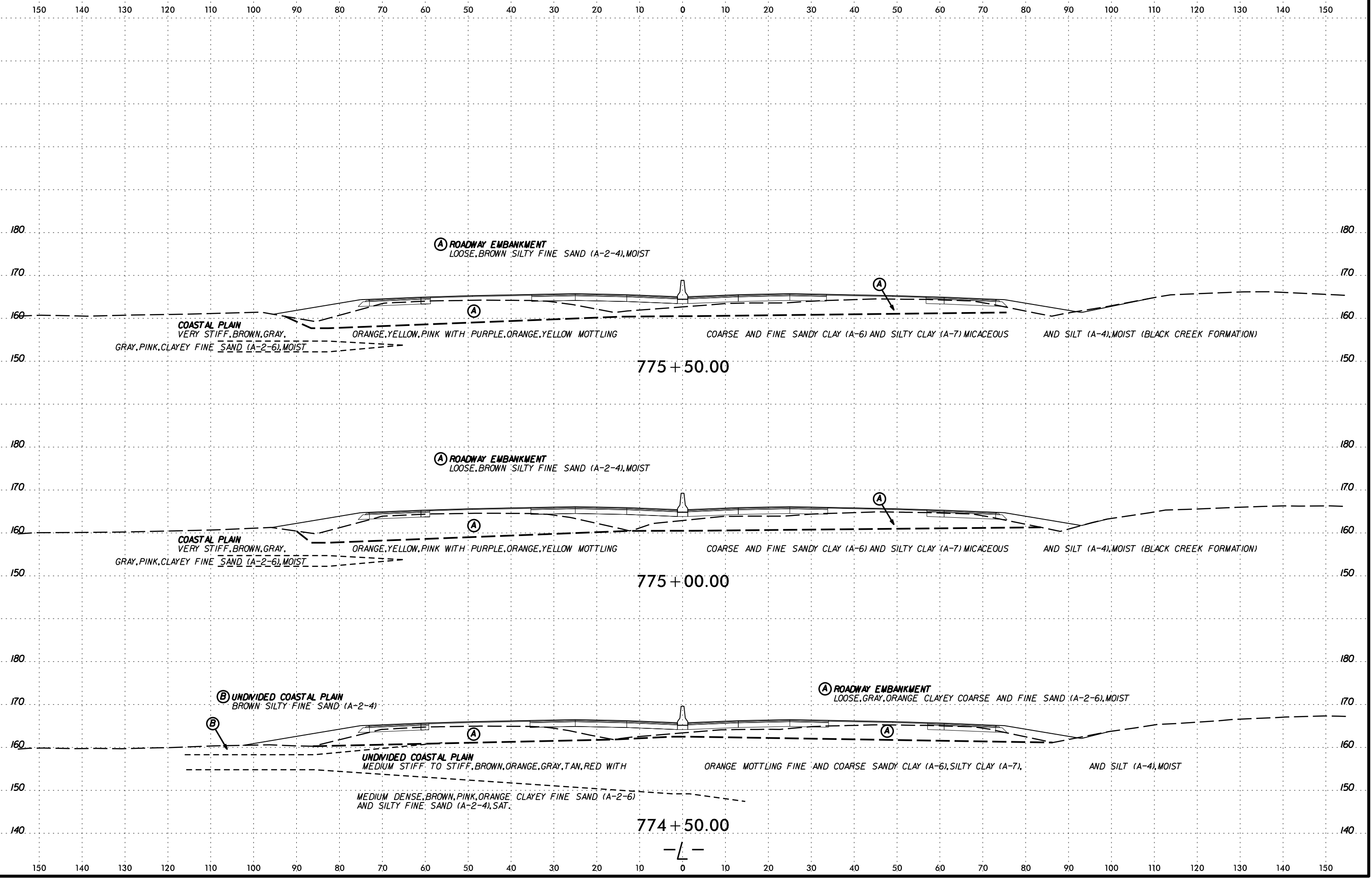


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-244	0	772+07	0.3- 1.8	A-2-6(0)	26	11	49.8	24.1	5.8	20.3	98.9	68.0	29.0	-	ND
SS-245	0	772+07	5.1- 6.6	A-7-6(13)	57	35	37.5	14.6	7.4	40.4	98.6	72.0	50.0	-	ND
SS-246	0	772+07	10.1- 11.6	A-7-5(66)	92	61	5.6	1.2	55.0	38.2	99.8	96.0	93.0	33.0	ND
SS-247	0	772+07	15.8- 16.6	A-2-4(0)	NP	NP	8.2	83.6	3.7	4.4	100.0	99.0	12.0	-	ND



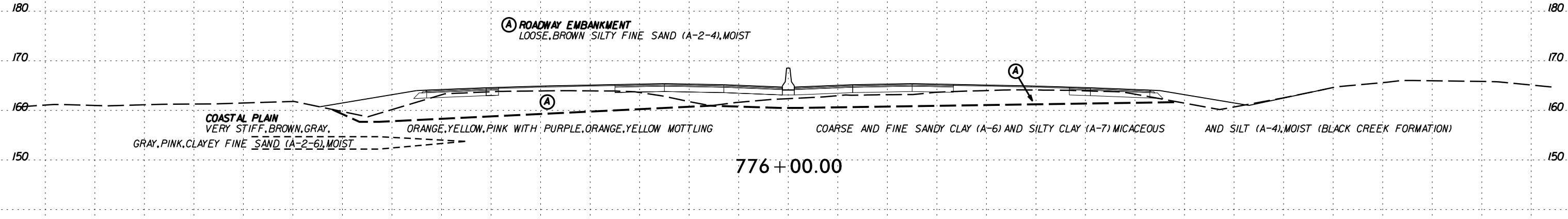
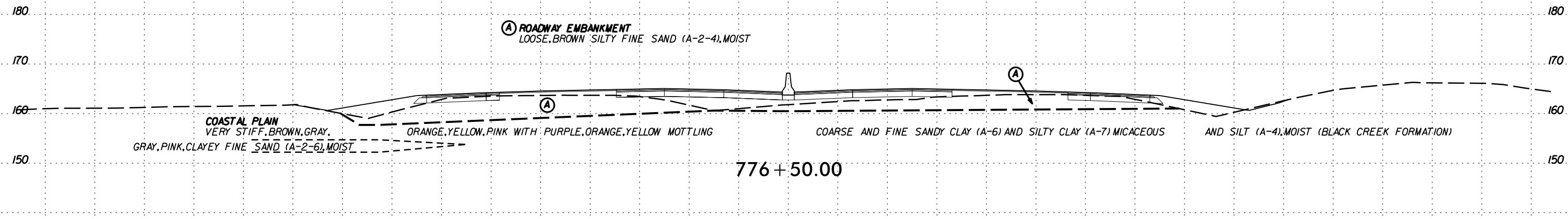
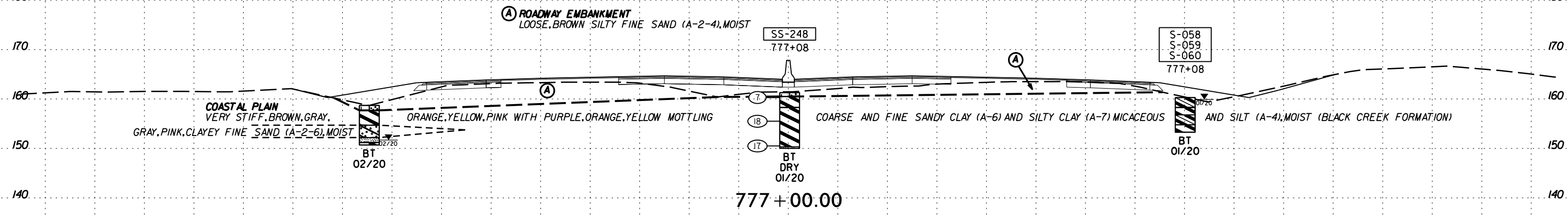
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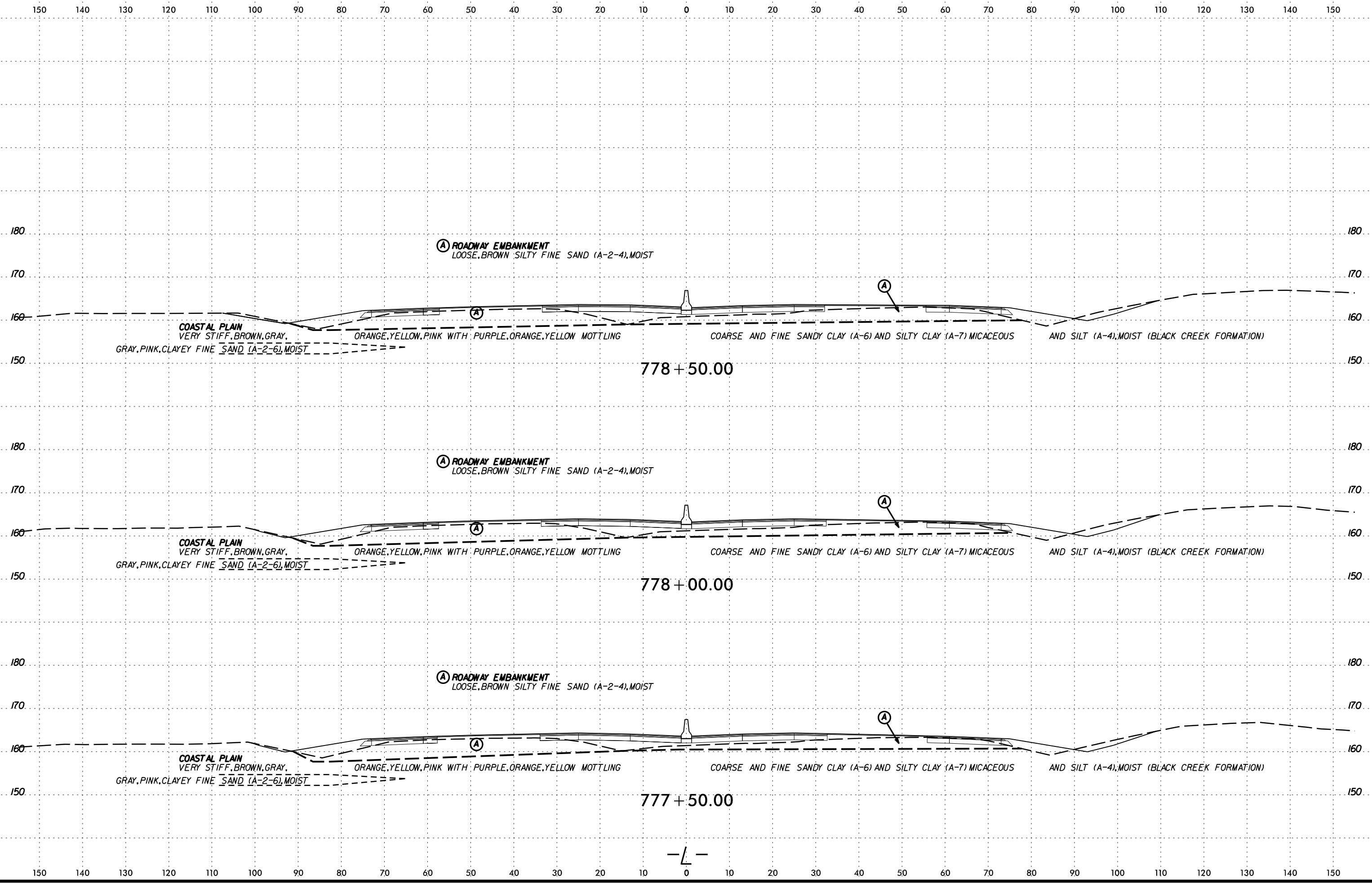


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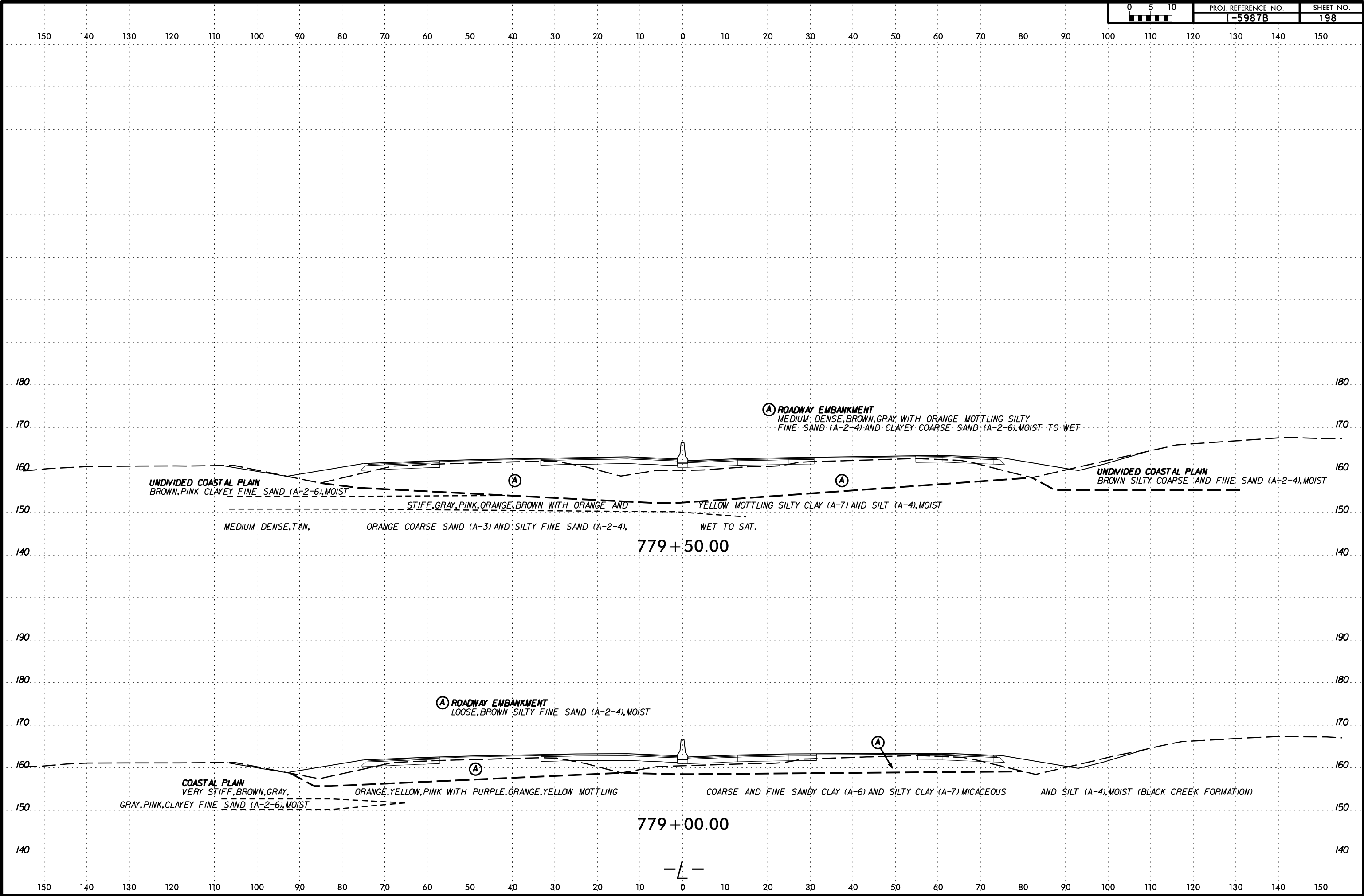
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-248	0	777+08	0.8-1.5	A-7-6(9)	48	27	36.9	17.5	8.1	37.5	99.4	74.0	48.0	18.0	ND
S-058	80' RT	777+08	0.5-1.5	A-6(3)	35	19	40.2	24.7	10.0	25.1	99.8	74.0	38.0	-	ND
S-059	80' RT	777+08	2.0-3.0	A-7-6(15)	55	32	29.5	16.7	11.4	42.3	99.7	81.0	56.0	22.0	ND
S-060	80' RT	777+08	5.5-6.5	A-7-5(43)	81	49	15.5	6.2	9.6	68.7	99.8	90.0	79.0	23.0	ND

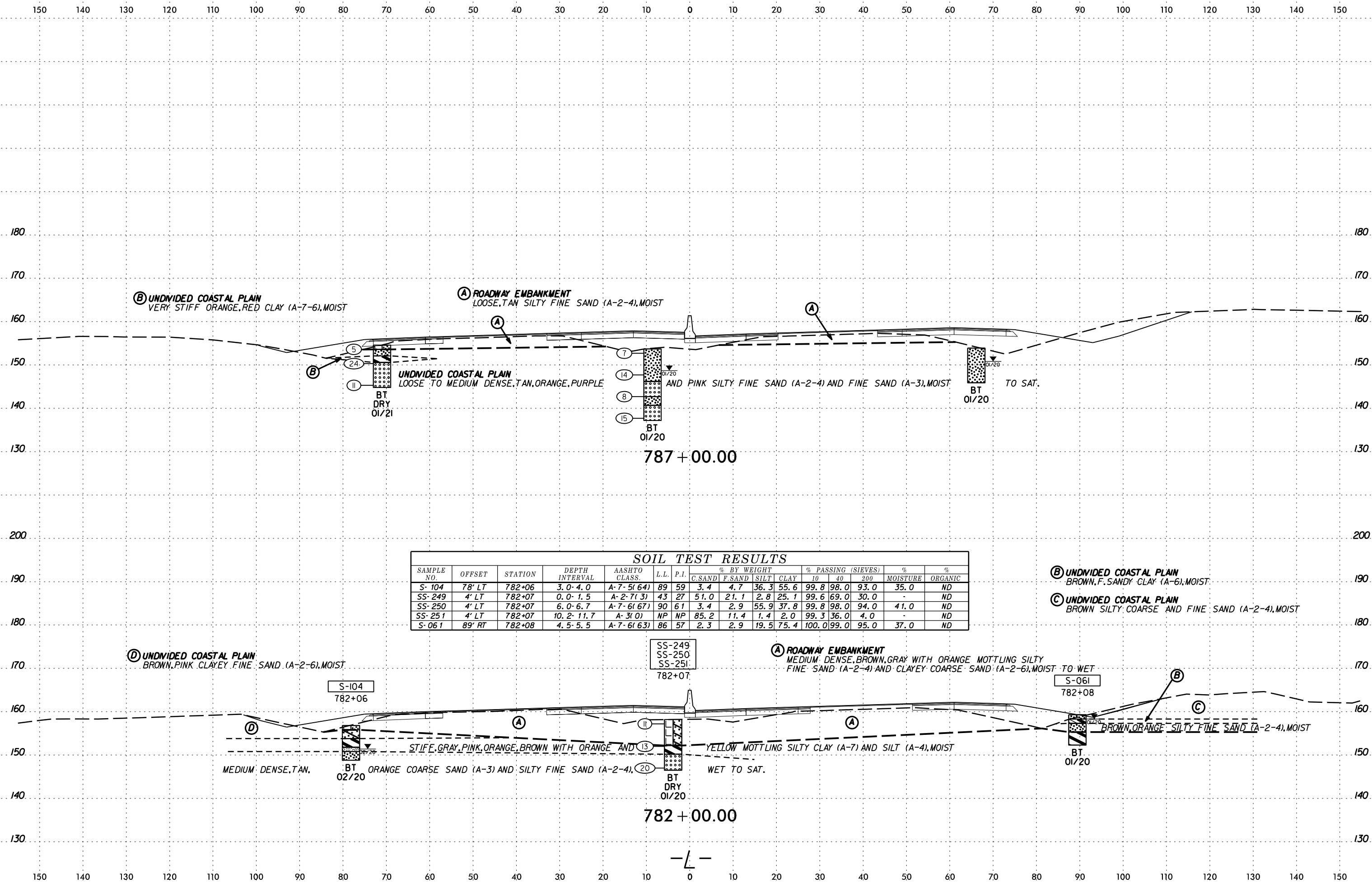


SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT



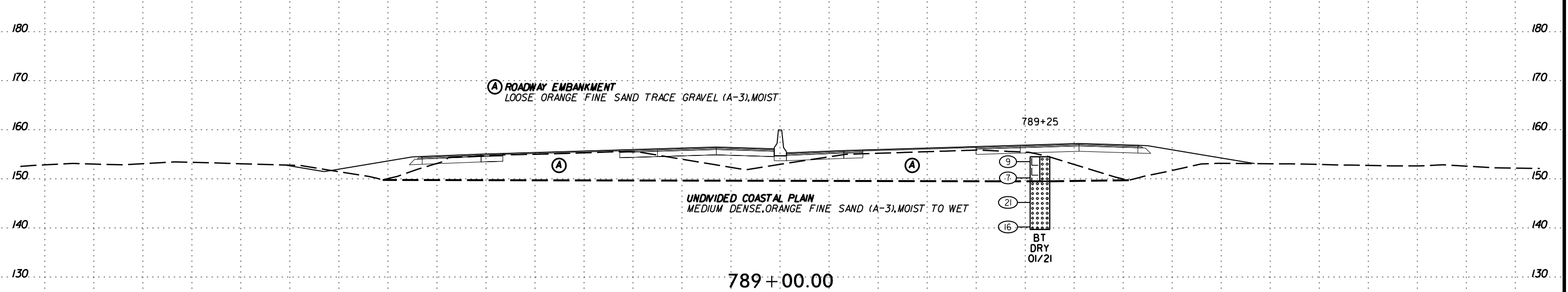
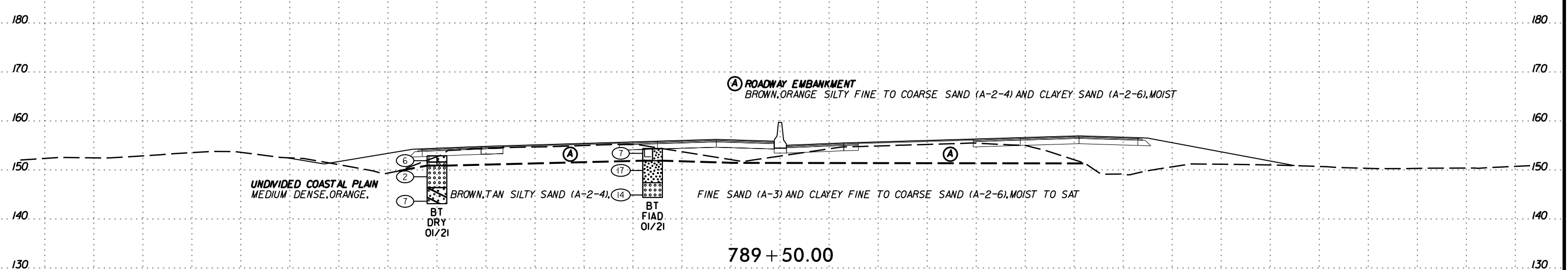
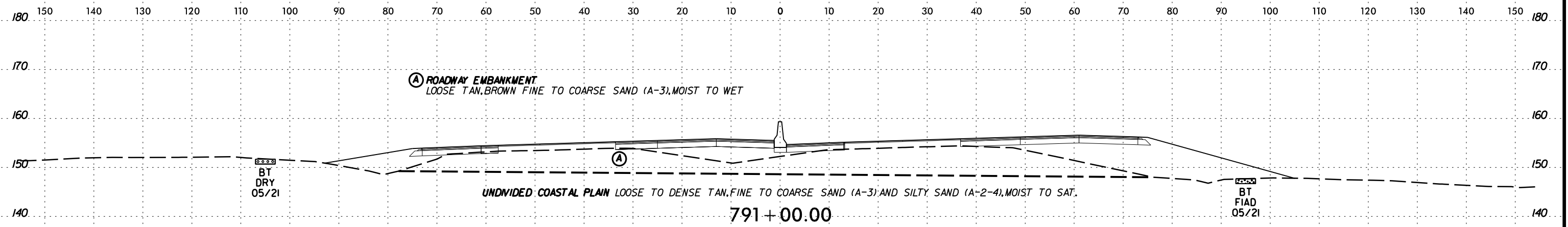
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SHEET NO.: 197





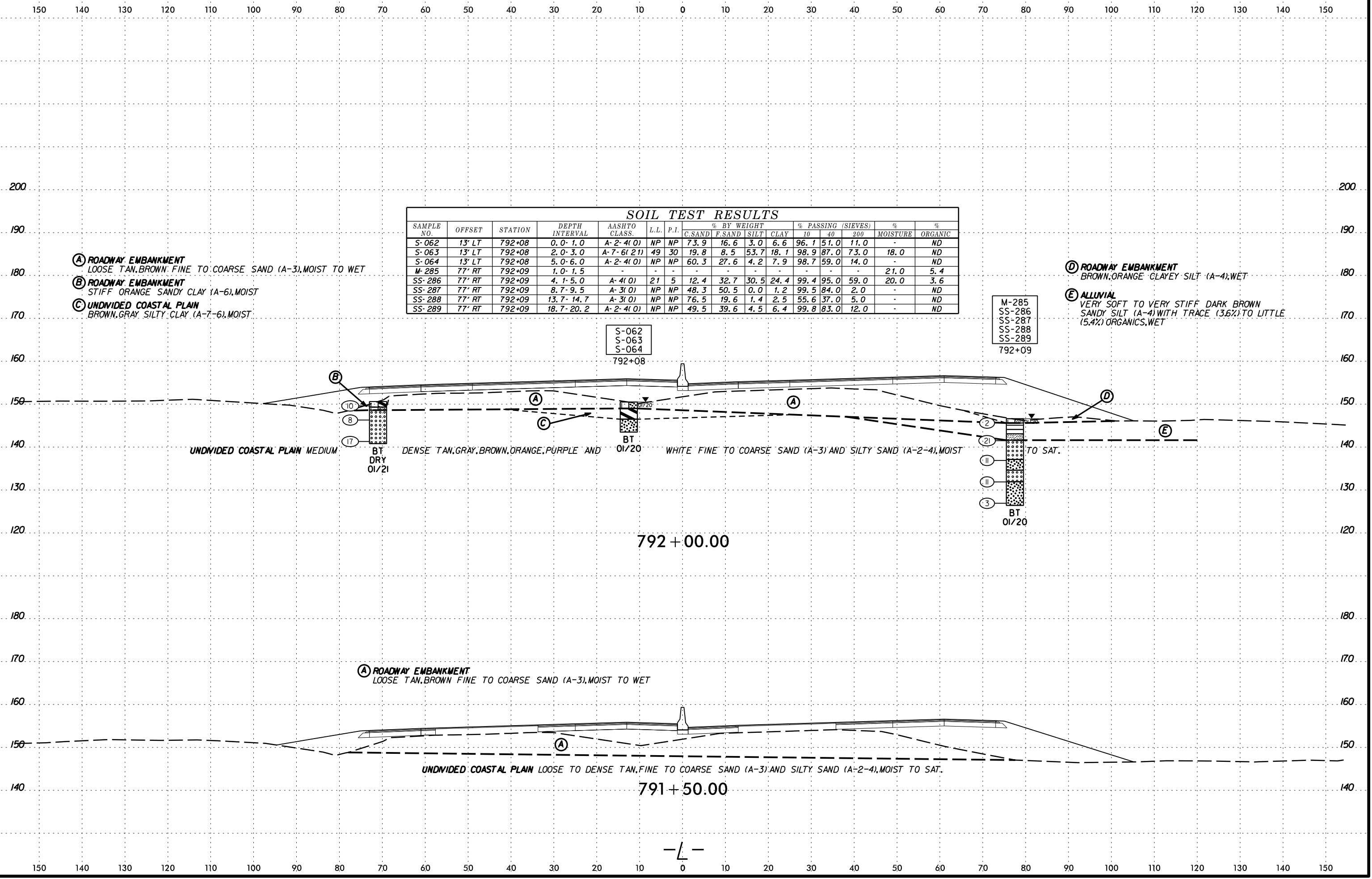
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-104	78' LT	782+06	3.0-4.0	A-7-5(64)	89	59	3.4	4.7	36.3	55.6	99.8	98.0	93.0	35.0	ND
SS-249	4' LT	782+07	0.0-1.5	A-2-7(3)	43	27	51.0	21.1	2.8	25.1	99.6	69.0	30.0	-	ND
SS-250	4' LT	782+07	6.0-6.7	A-7-6(67)	90	61	3.4	2.9	55.9	37.8	99.8	98.0	94.0	41.0	ND
SS-251	4' LT	782+07	10.2-11.7	A-3(0)	NP	NP	85.2	11.4	1.4	2.0	99.3	36.0	4.0	-	ND
S-061	89' RT	782+08	4.5-5.5	A-7-6(63)	86	57	2.3	2.9	19.5	75.4	100.0	99.0	95.0	37.0	ND

SCALE: 1"=20'



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

6/23/16



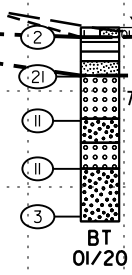
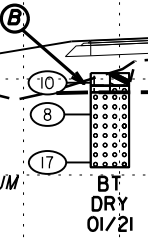
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-062	13' LT	792+08	0.0-1.0	A-2-4(0)	NP	NP	73.9	16.6	3.0	6.6	96.1	51.0	11.0	-	ND
S-063	13' LT	792+08	2.0-3.0	A-7-6(21)	49	30	19.8	8.5	53.7	18.1	98.9	87.0	73.0	18.0	ND
S-064	13' LT	792+08	5.0-6.0	A-2-4(0)	NP	NP	60.3	27.6	4.2	7.9	98.7	59.0	14.0	-	ND
M-285	77' RT	792+09	1.0-1.5	-	-	-	-	-	-	-	-	-	21.0	5.4	
SS-286	77' RT	792+09	4.1-5.0	A-4(0)	21	5	12.4	32.7	30.5	24.4	99.4	95.0	59.0	20.0	3.6
SS-287	77' RT	792+09	8.7-9.5	A-3(0)	NP	NP	48.3	50.5	0.0	1.2	99.5	84.0	2.0	-	ND
SS-288	77' RT	792+09	13.7-14.7	A-3(0)	NP	NP	76.5	19.6	1.4	2.5	55.6	37.0	5.0	-	ND
SS-289	77' RT	792+09	18.7-20.2	A-2-4(0)	NP	NP	49.5	39.6	4.5	6.4	99.8	83.0	12.0	-	ND

- (A) ROADWAY EMBANKMENT
LOOSE TAN, BROWN FINE TO COARSE SAND (A-3), MOIST TO WET
- (B) ROADWAY EMBANKMENT
STIFF ORANGE SANDY CLAY (A-6), MOIST
- (C) UNDIVIDED COASTAL PLAIN
BROWN, GRAY SILTY CLAY (A-7-6), MOIST

- (D) ROADWAY EMBANKMENT
BROWN, ORANGE CLAYEY SILT (A-4), WET
- (E) ALLUVIAL
VERY SOFT TO VERY STIFF DARK BROWN SANDY SILT (A-4) WITH TRACE (3.6%) TO LITTLE (5.4%) ORGANICS, WET

S-062
S-063
S-064
792+08

M-285
SS-286
SS-287
SS-288
SS-289
792+09



UNDIVIDED COASTAL PLAIN MEDIUM
DENSE TAN, GRAY, BROWN, ORANGE, PURPLE AND
WHITE FINE TO COARSE SAND (A-3) AND SILTY SAND (A-2-4), MOIST

792+00.00

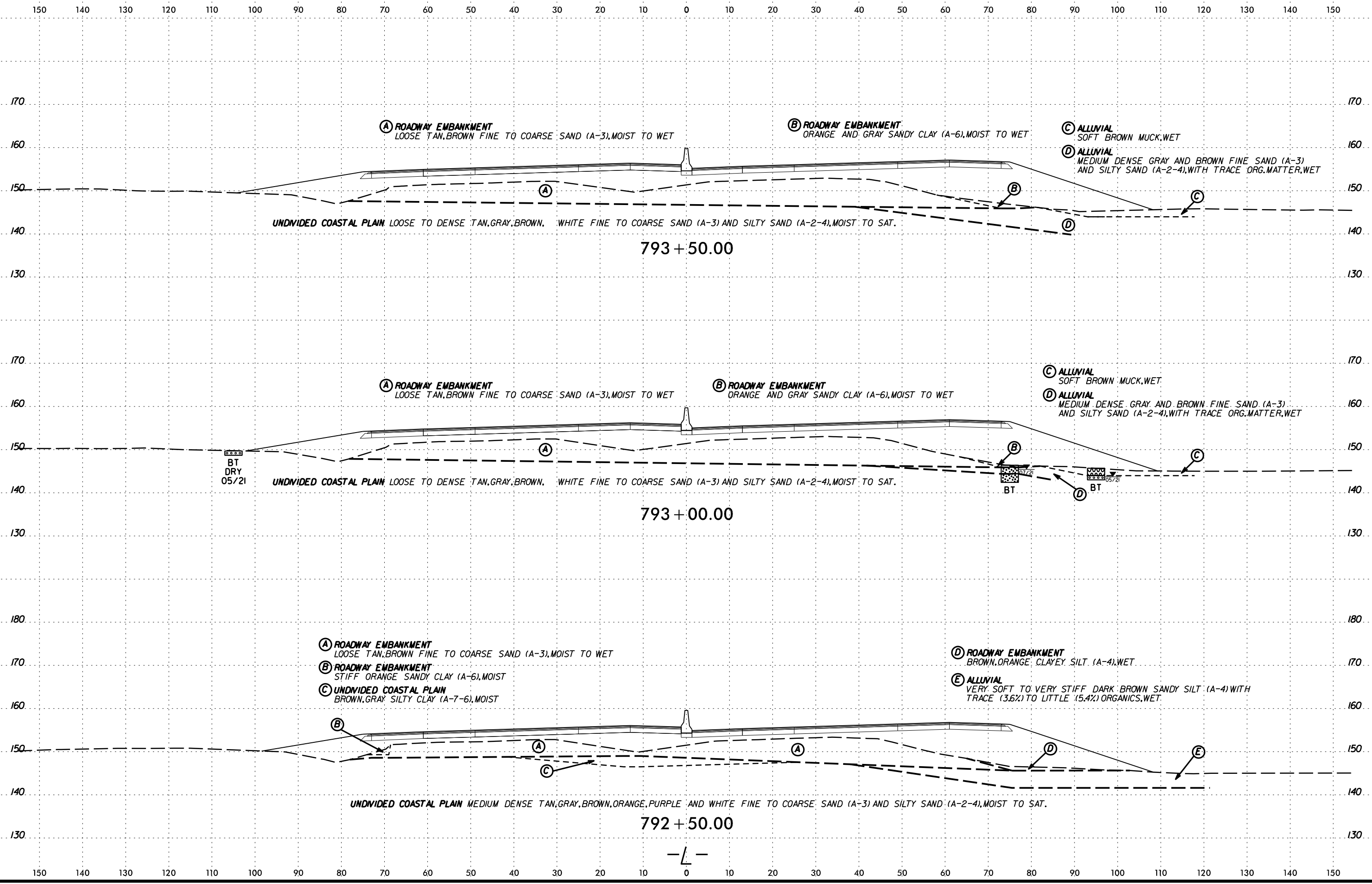
- (A) ROADWAY EMBANKMENT
LOOSE TAN, BROWN FINE TO COARSE SAND (A-3), MOIST TO WET

UNDIVIDED COASTAL PLAIN LOOSE TO DENSE TAN, FINE TO COARSE SAND (A-3) AND SILTY SAND (A-2-4), MOIST TO SAT.

791+50.00

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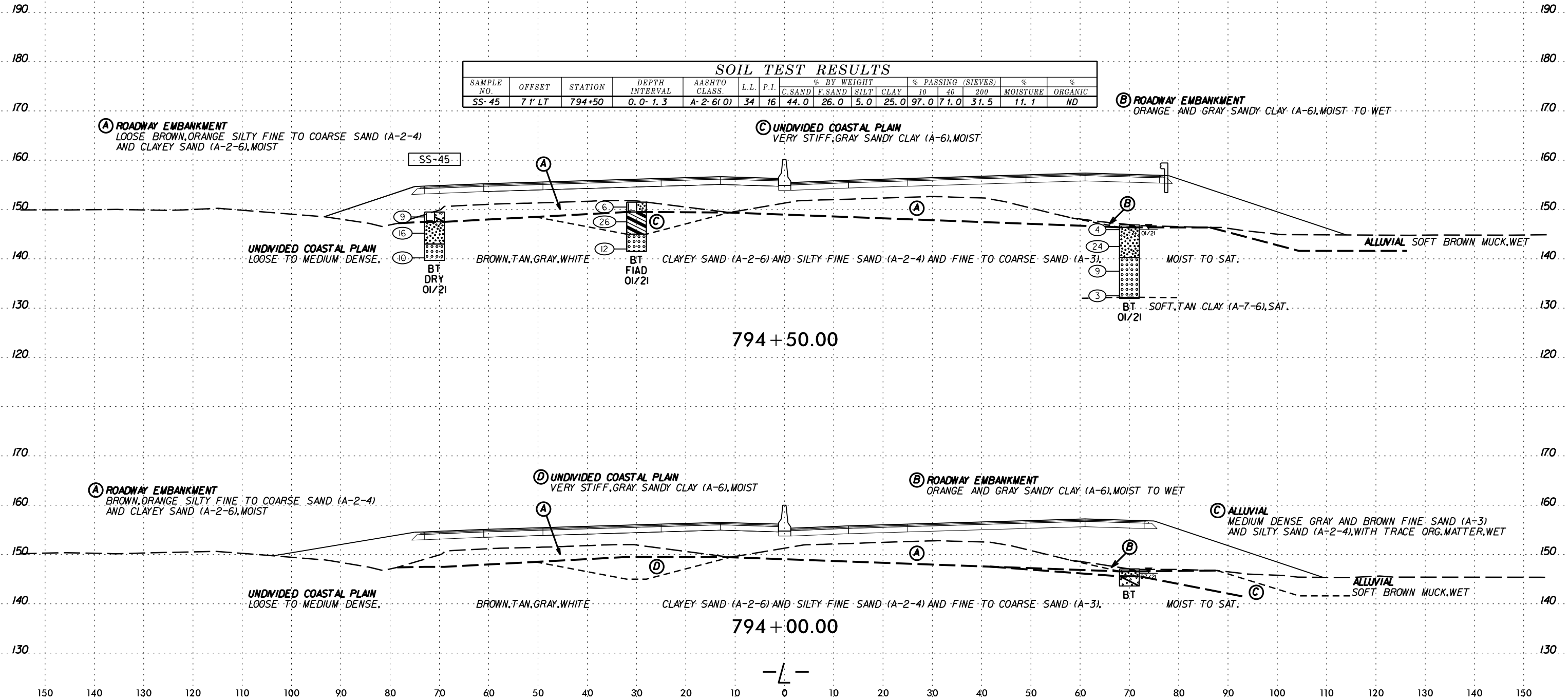
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SECTION CUT

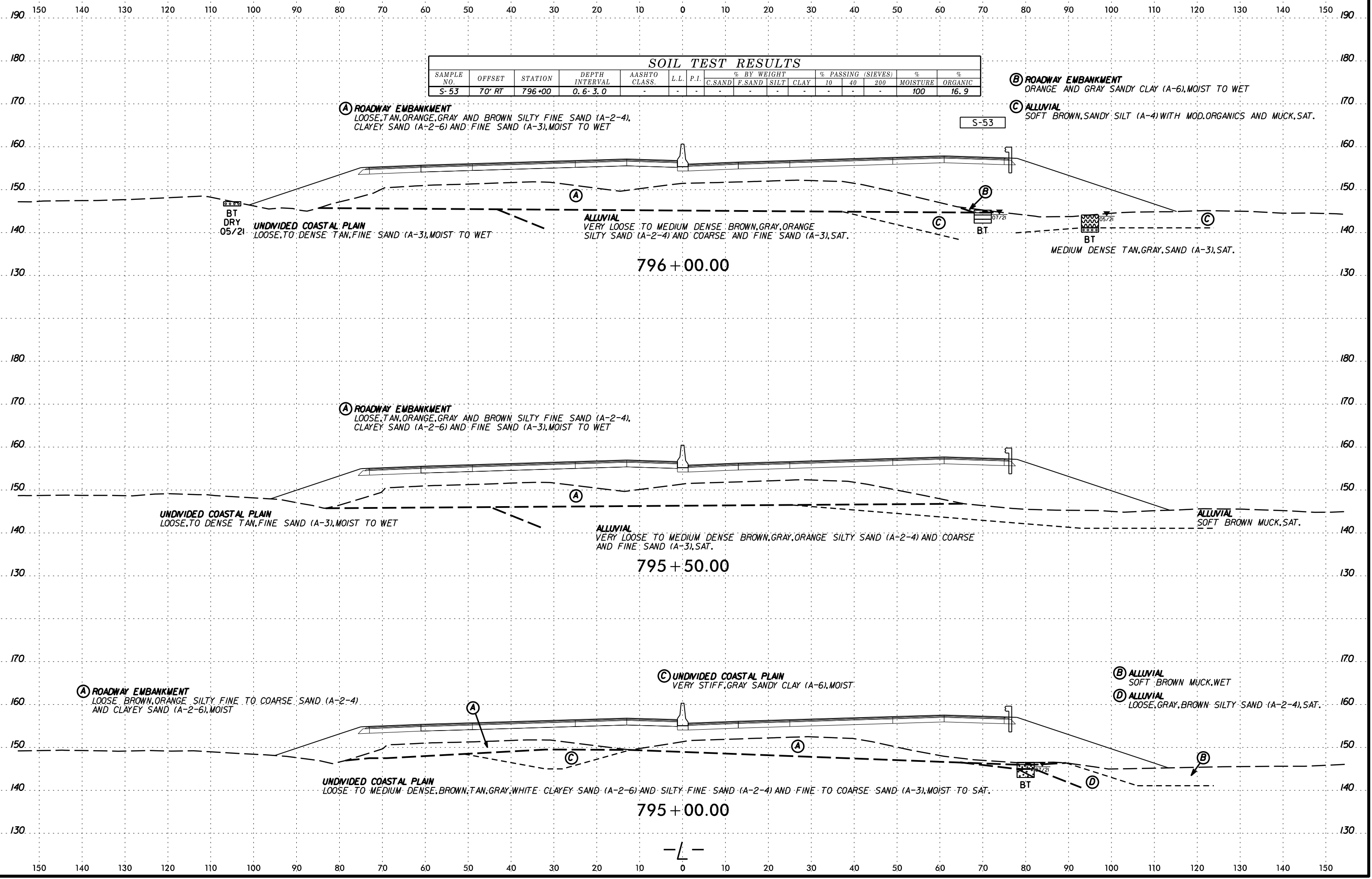
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-45	7' LT	794+50	0.0-1.3	A-2-6(O)	34	16	44.0	26.0	5.0	25.0	97.0	71.0	31.5	11.1	ND



SCHEMATIC
 CONSTRUCTION
 DRAWING
 PREPARED 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		
S-53	70' RT	796+00	0.6-3.0	-	-	-	-	-	-	-	-	-	-	100	16.9



SCHEMATIC CROSS SECTION

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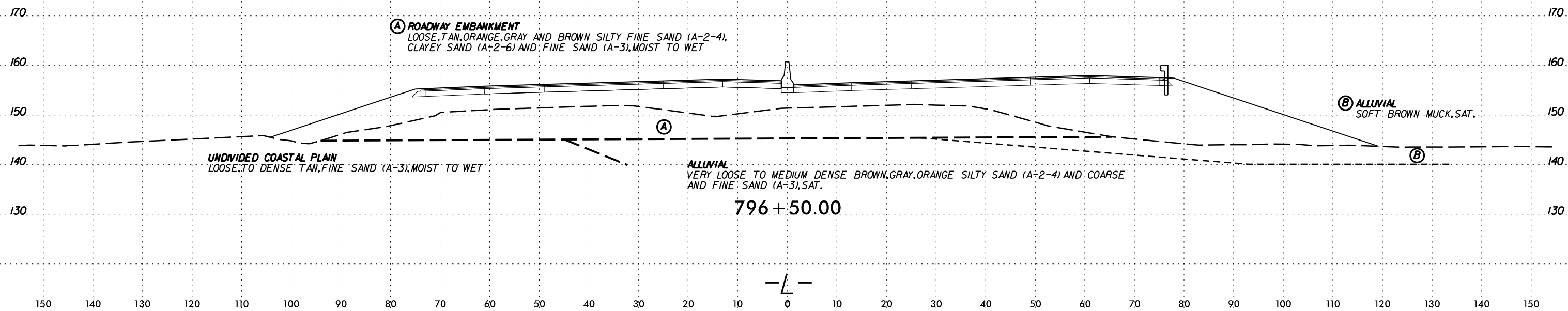
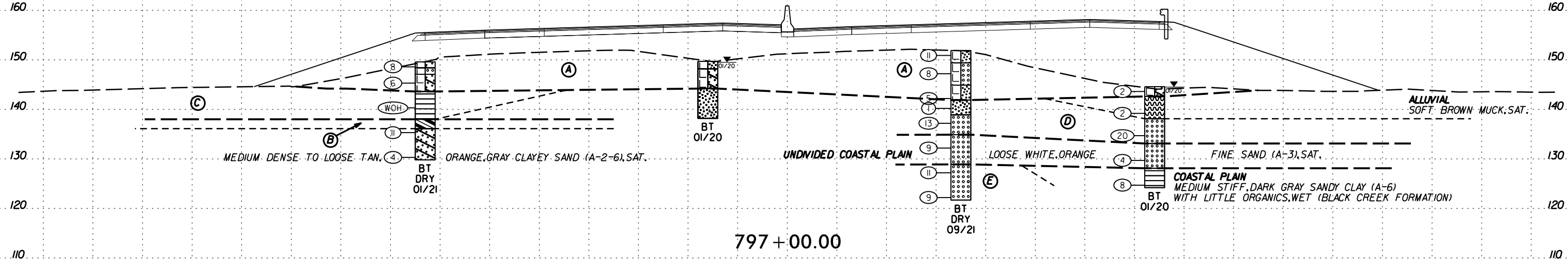
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- (A) ROADWAY EMBANKMENT**
LOOSE TO MEDIUM DENSE, TAN, ORANGE, GRAY AND BROWN SILTY FINE SAND (A-2-4), CLAYEY SAND (A-2-6) AND FINE SAND (A-3), MOIST TO WET
- (B) UNDIVIDED COASTAL PLAIN**
STIFF WHITE SANDY CLAY (A-6), SAT.
- (C) ALLUVIAL**
VERY SOFT SILT (A-4) TRACE TO LITTLE ORGANIC, SAT.

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-290	7'4" RT	797+09	0.0-1.5	-	-	-	55.6	22.7	3.6	18.0	97.3	61.0	24.0	-	ND
SS-291	7'4" RT	797+09	4.4-5.9	-	-	-	-	-	-	-	-	-	717.0	72.7	
SS-292	7'4" RT	797+09	8.9-10.4	A-3(O)	NP	NP	61.9	36.4	-0.5	2.2	98.4	65.0	3.0	-	ND
SS-293	7'4" RT	797+09	13.9-15.4	A-3(O)	NP	NP	88.0	5.9	2.0	4.1	96.9	31.0	7.0	-	ND
SS-294	7'4" RT	797+09	18.9-20.4	A-6(10)	38	20	21.3	20.1	17.8	40.8	99.8	91.0	60.0	34.0	9.8

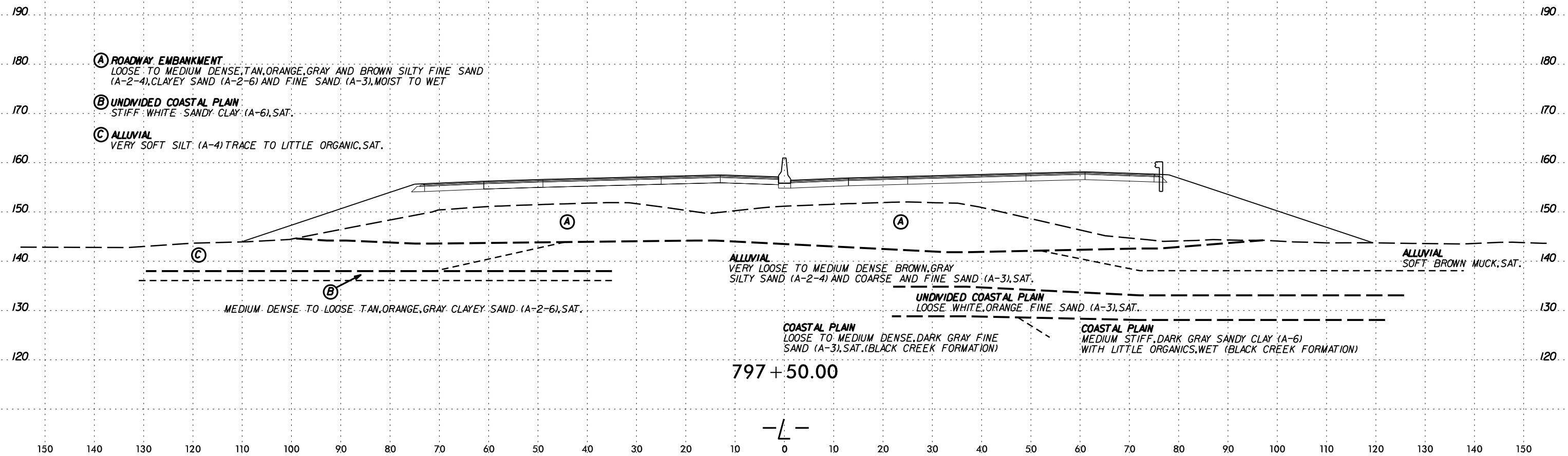
SS-290
SS-291
SS-292
SS-293
SS-294
797+09

- (D) ALLUVIAL**
VERY LOOSE TO MEDIUM DENSE BROWN, GRAY SILTY SAND (A-2-4) AND COARSE AND FINE SAND (A-3), SAT.
- (E) COASTAL PLAIN**
LOOSE TO MEDIUM DENSE, DARK GRAY FINE SAND (A-3), SAT. (BLACK CREEK FORMATION)



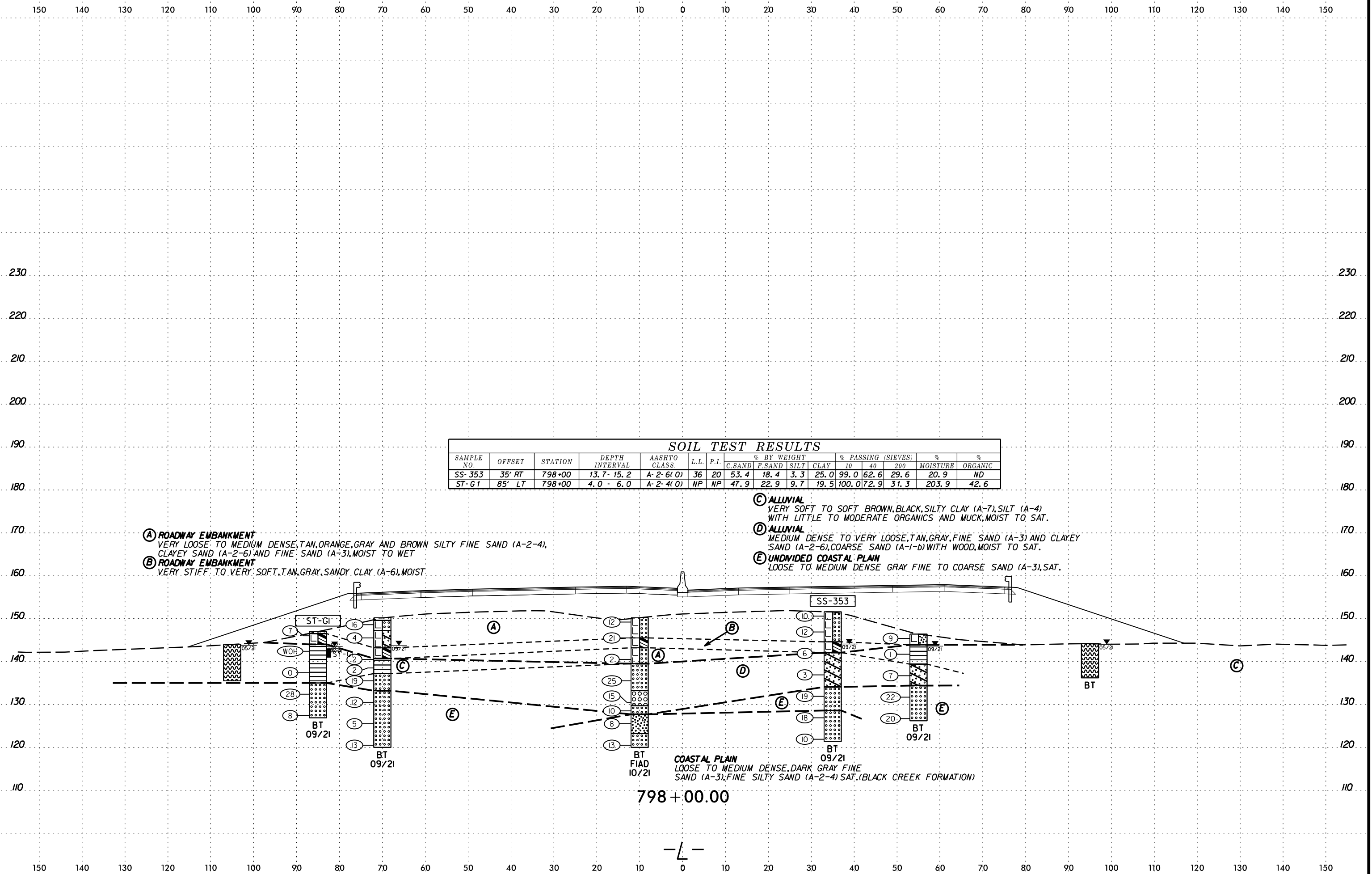
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 CHECKED BY: [illegible]
 PROJECT: I-5987B
 SHEET: 206

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	MOISTURE	ORGANIC	
SS-353	35' RT	798+00	13.7 - 15.2	A-2-6(O)	36	20	53.4	18.4	3.3	25.0	99.0	62.6	29.6	20.9	ND	
ST-G1	85' LT	798+00	4.0 - 6.0	A-2-4(O)	NP	NP	47.9	22.9	9.7	19.5	100.0	72.9	31.3	203.9	42.6	

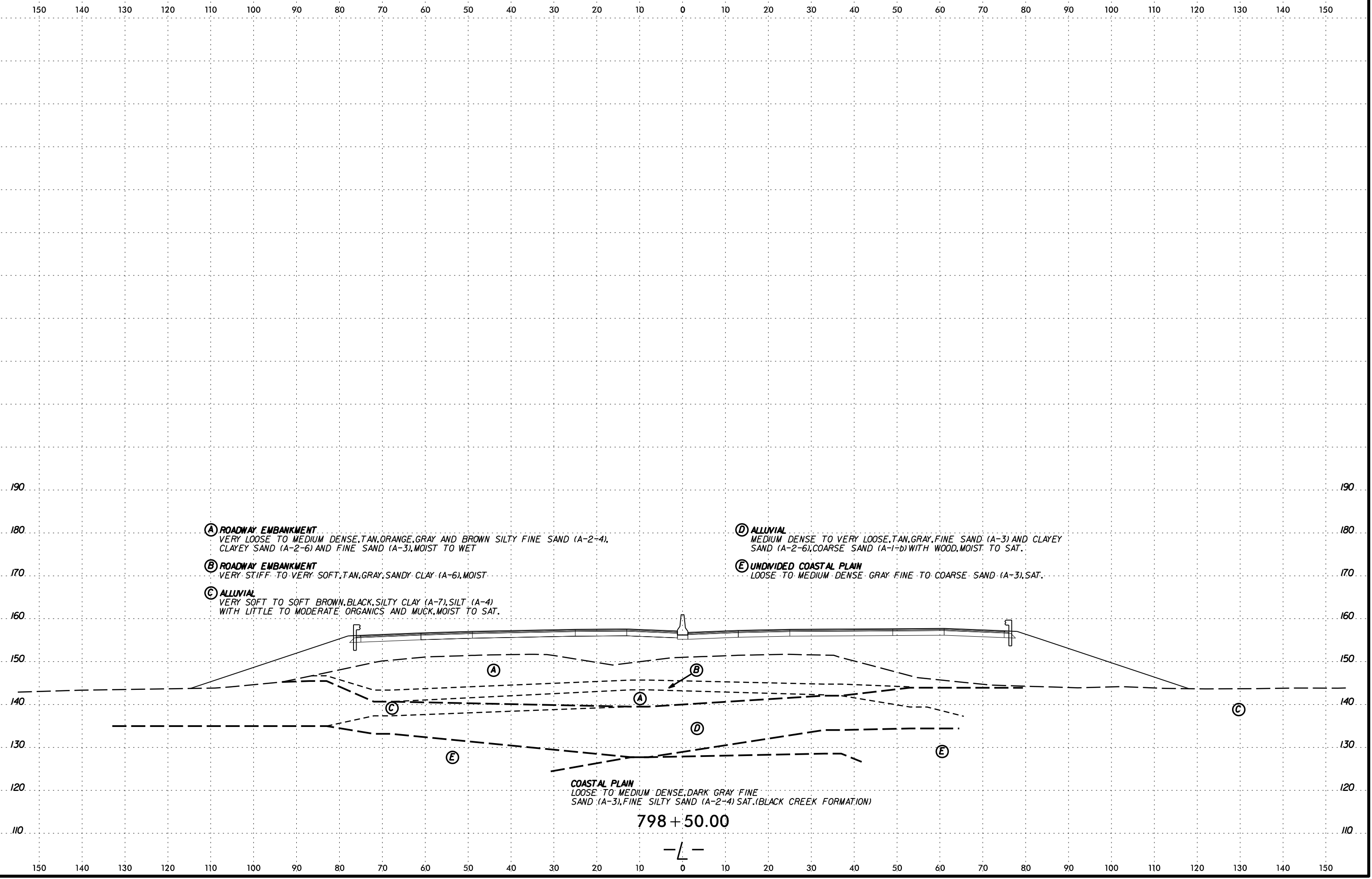
- (A) ROADWAY EMBANKMENT**
VERY LOOSE TO MEDIUM DENSE, TAN, ORANGE, GRAY AND BROWN SILTY FINE SAND (A-2-4), CLAYEY SAND (A-2-6) AND FINE SAND (A-3), MOIST TO WET
- (B) ROADWAY EMBANKMENT**
VERY STIFF TO VERY SOFT, TAN, GRAY, SANDY CLAY (A-6), MOIST

- (C) ALLUVIAL**
VERY SOFT TO SOFT BROWN, BLACK, SILTY CLAY (A-7), SILT (A-4) WITH LITTLE TO MODERATE ORGANICS AND MUCK, MOIST TO SAT.
- (D) ALLUVIAL**
MEDIUM DENSE TO VERY LOOSE, TAN, GRAY, FINE SAND (A-3) AND CLAYEY SAND (A-2-6), COARSE SAND (A-1-b) WITH WOOD, MOIST TO SAT.
- (E) UNDIVIDED COASTAL PLAIN**
LOOSE TO MEDIUM DENSE GRAY FINE TO COARSE SAND (A-3), SAT.

COASTAL PLAIN
LOOSE TO MEDIUM DENSE, DARK GRAY FINE SAND (A-3), FINE SILTY SAND (A-2-4) SAT. (BLACK CREEK FORMATION)

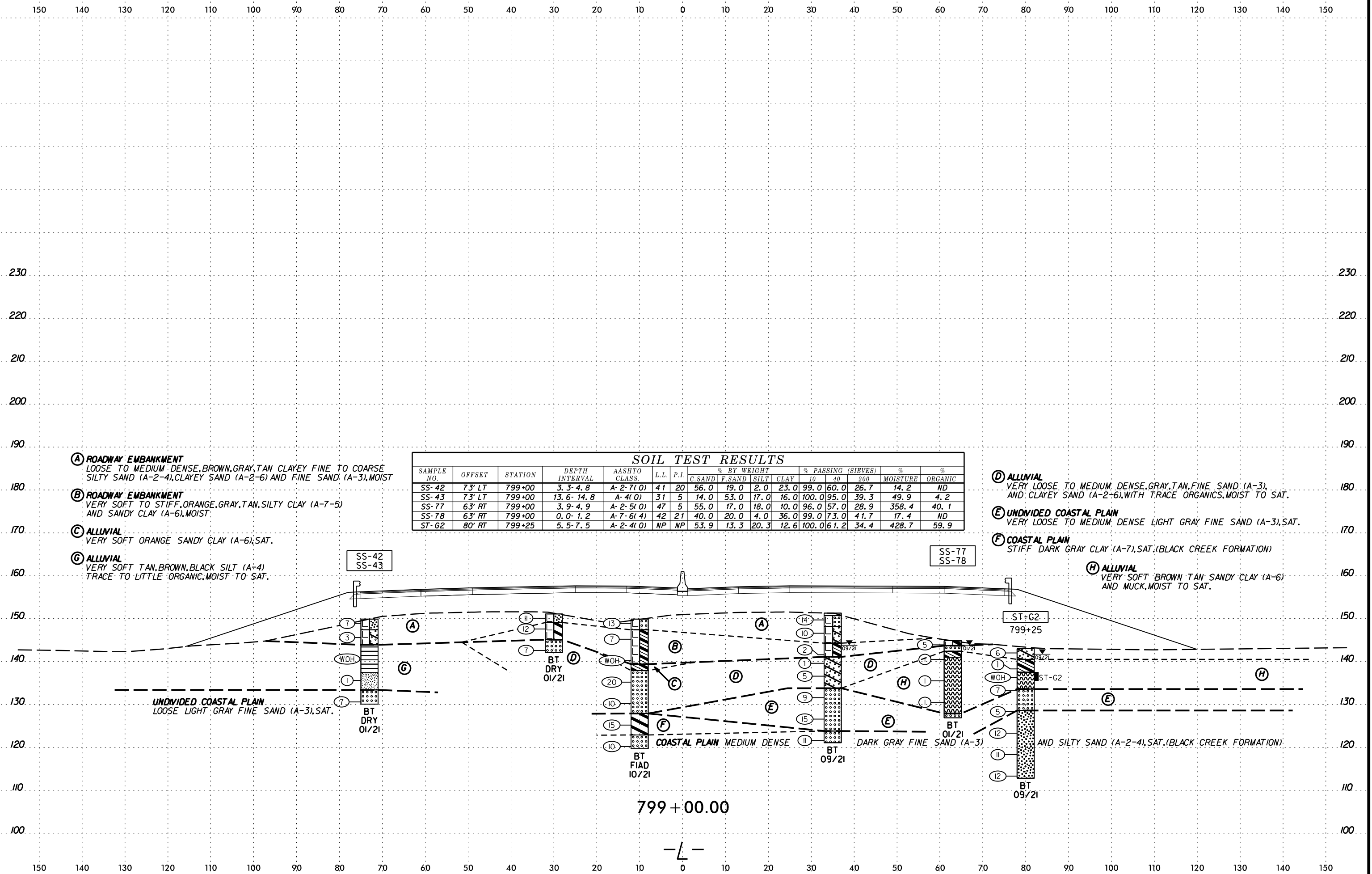
798 + 00.00

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

6/23/16



- (A) ROADWAY EMBANKMENT**
LOOSE TO MEDIUM DENSE, BROWN, GRAY, TAN CLAYEY FINE TO COARSE SILTY SAND (A-2-4), CLAYEY SAND (A-2-6) AND FINE SAND (A-3), MOIST
- (B) ROADWAY EMBANKMENT**
VERY SOFT TO STIFF, ORANGE, GRAY, TAN, SILTY CLAY (A-7-5) AND SANDY CLAY (A-6), MOIST
- (C) ALLUVIAL**
VERY SOFT ORANGE SANDY CLAY (A-6), SAT.
- (G) ALLUVIAL**
VERY SOFT TAN, BROWN, BLACK SILT (A-4) TRACE TO LITTLE ORGANIC, MOIST TO SAT.

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-42	7'3" LT	799+00	3.3-4.8	A-2-7(0)	41	20	56.0	19.0	2.0	23.0	99.0	60.0	26.7	14.2	ND
SS-43	7'3" LT	799+00	13.6-14.8	A-4(0)	31	5	14.0	53.0	17.0	16.0	100.0	95.0	39.3	49.9	4.2
SS-77	6'3" RT	799+00	3.9-4.9	A-2-5(0)	47	5	55.0	17.0	18.0	10.0	96.0	57.0	28.9	358.4	40.1
SS-78	6'3" RT	799+00	0.0-1.2	A-7-6(4)	42	21	40.0	20.0	4.0	36.0	99.0	73.0	41.7	17.4	ND
ST-G2	80' RT	799+25	5.5-7.5	A-2-4(0)	NP	NP	53.9	13.3	20.3	12.6	100.0	61.2	34.4	428.7	59.9

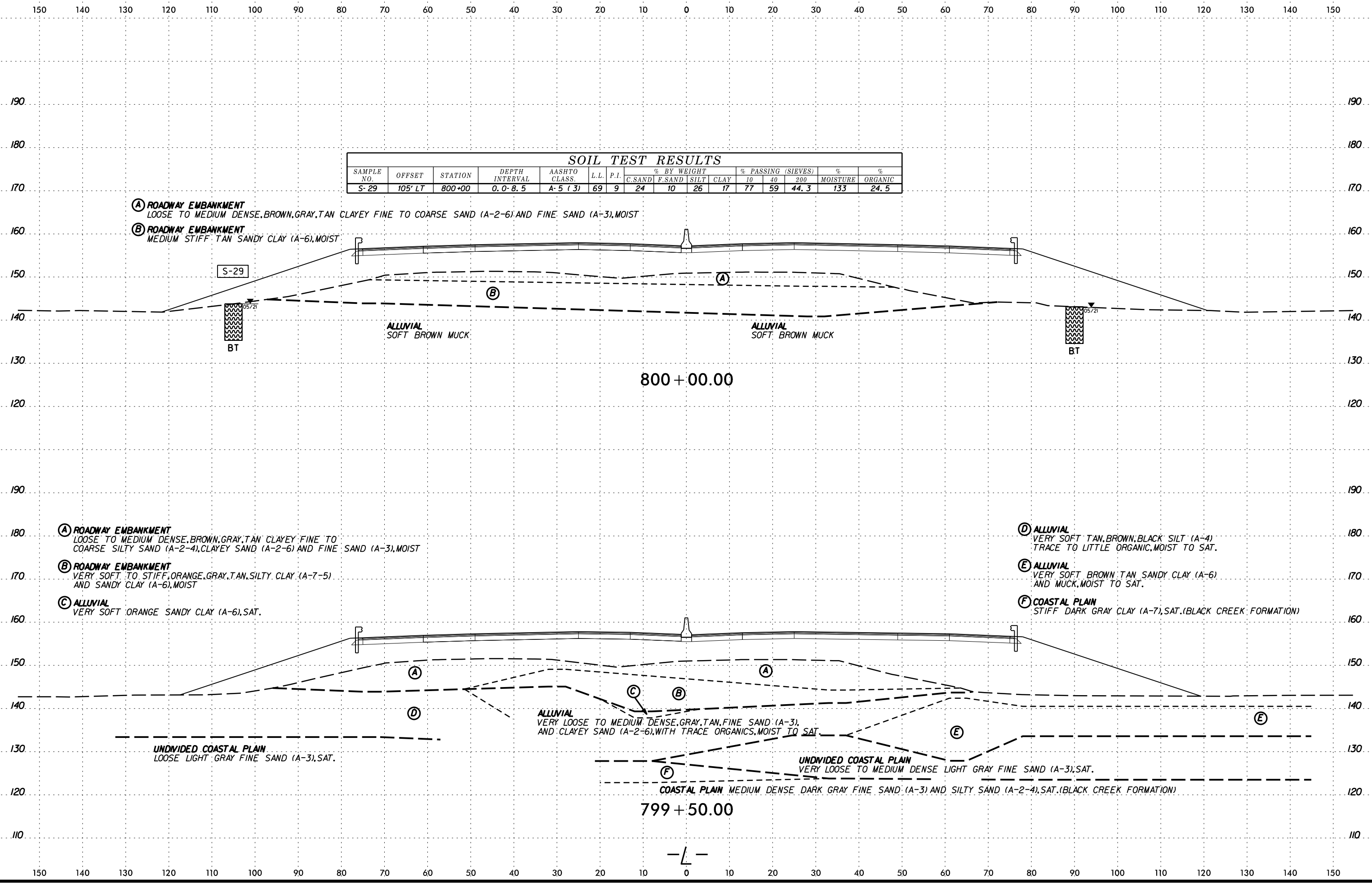
- (D) ALLUVIAL**
VERY LOOSE TO MEDIUM DENSE, GRAY, TAN, FINE SAND (A-3), AND CLAYEY SAND (A-2-6), WITH TRACE ORGANICS, MOIST TO SAT.
- (E) UNDIVIDED COASTAL PLAIN**
VERY LOOSE TO MEDIUM DENSE LIGHT GRAY FINE SAND (A-3), SAT.
- (F) COASTAL PLAIN**
STIFF DARK GRAY CLAY (A-7), SAT. (BLACK CREEK FORMATION)
- (H) ALLUVIAL**
VERY SOFT BROWN TAN SANDY CLAY (A-6) AND MUCK, MOIST TO SAT.

UNDIVIDED COASTAL PLAIN
LOOSE LIGHT GRAY FINE SAND (A-3), SAT.

799+00.00

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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
S-29	105' LT	800+00	0.0-8.5	A-5 (3)	69	9	24	10	26	17	77	59	44.3	133	24.5



SCALE: VERTICAL 1"=20'; HORIZONTAL 1"=40'

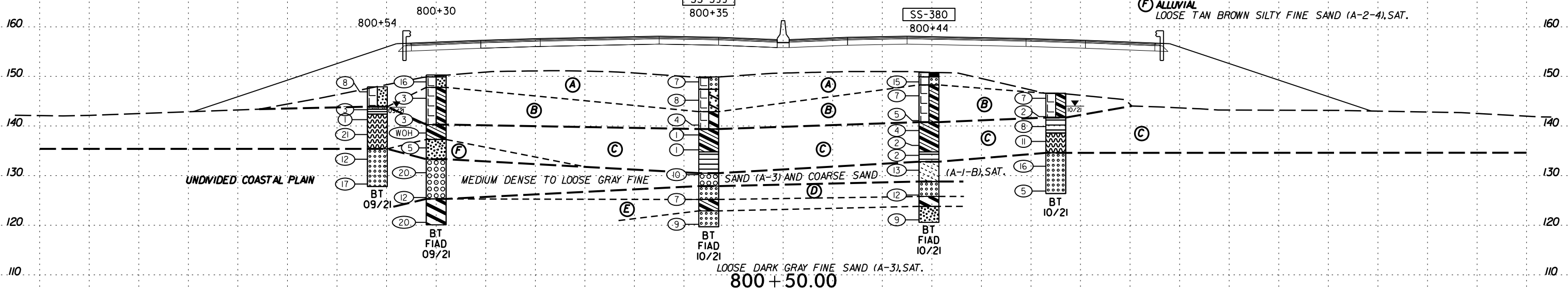
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

200 190 180 170 160 150 140 130 120 110

- (A) ROADWAY EMBANKMENT**
LOOSE TO MEDIUM DENSE, BROWN, GRAY, TAN CLAYEY FINE TO COARSE SAND (A-2-6), SILTY FINE SAND (A-2-4) AND FINE SAND (A-3), MOIST
- (B) ROADWAY EMBANKMENT**
SOFT TO MEDIUM STIFF, TAN, ORANGE, GRAY SANDY CLAY (A-6) AND CLAY (A-7), MOIST
- (C) ALLUVIAL**
VERY SOFT TO STIFF, ORANGE, BLACK, TAN, BROWN, SANDY SILT (A-4), SANDY CLAY (A-6) WITH TRACE TO MODERATE ORGANICS, WOOD AND MUCK, MOIST TO SAT.

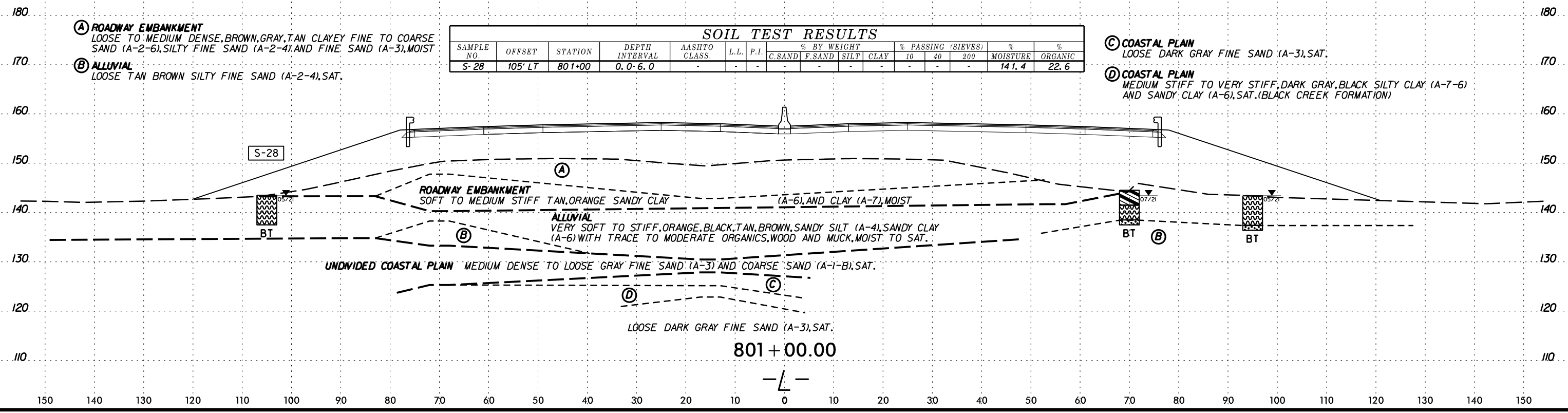
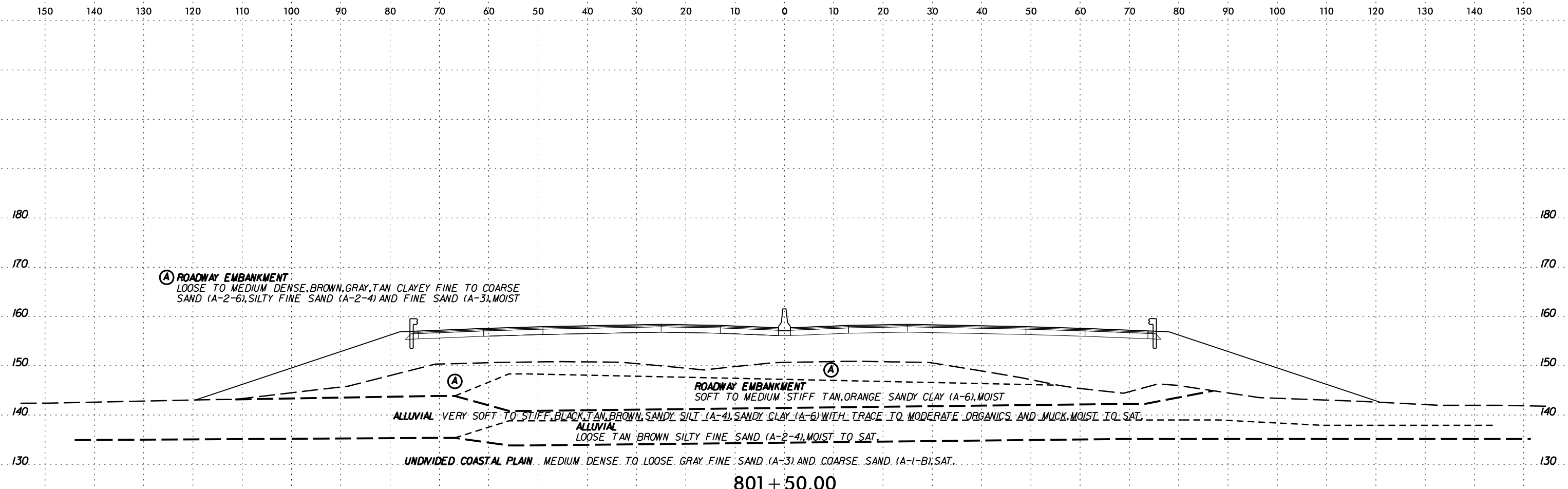
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-380	29' RT	800+44	13.7 - 15.2	A-7-6(6)	48	31	41.7	21.7	4.3	32.4	99.8	74.9	38.9	25.4	ND
SS-399	15' LT	800+35	10.7 - 12.2	A-6(2)	35	14	41.8	17.6	5.2	35.5	99.8	71.6	42.4	24.6	ND

- (D) COASTAL PLAIN**
LOOSE DARK GRAY FINE SAND (A-3), SAT.
- (E) COASTAL PLAIN**
MEDIUM STIFF TO VERY STIFF, DARK GRAY, BLACK, SILTY CLAY (A-7-6) AND SANDY CLAY (A-6), SAT. (BLACK CREEK FORMATION)
- (F) ALLUVIAL**
LOOSE TAN BROWN SILTY FINE SAND (A-2-4), SAT.



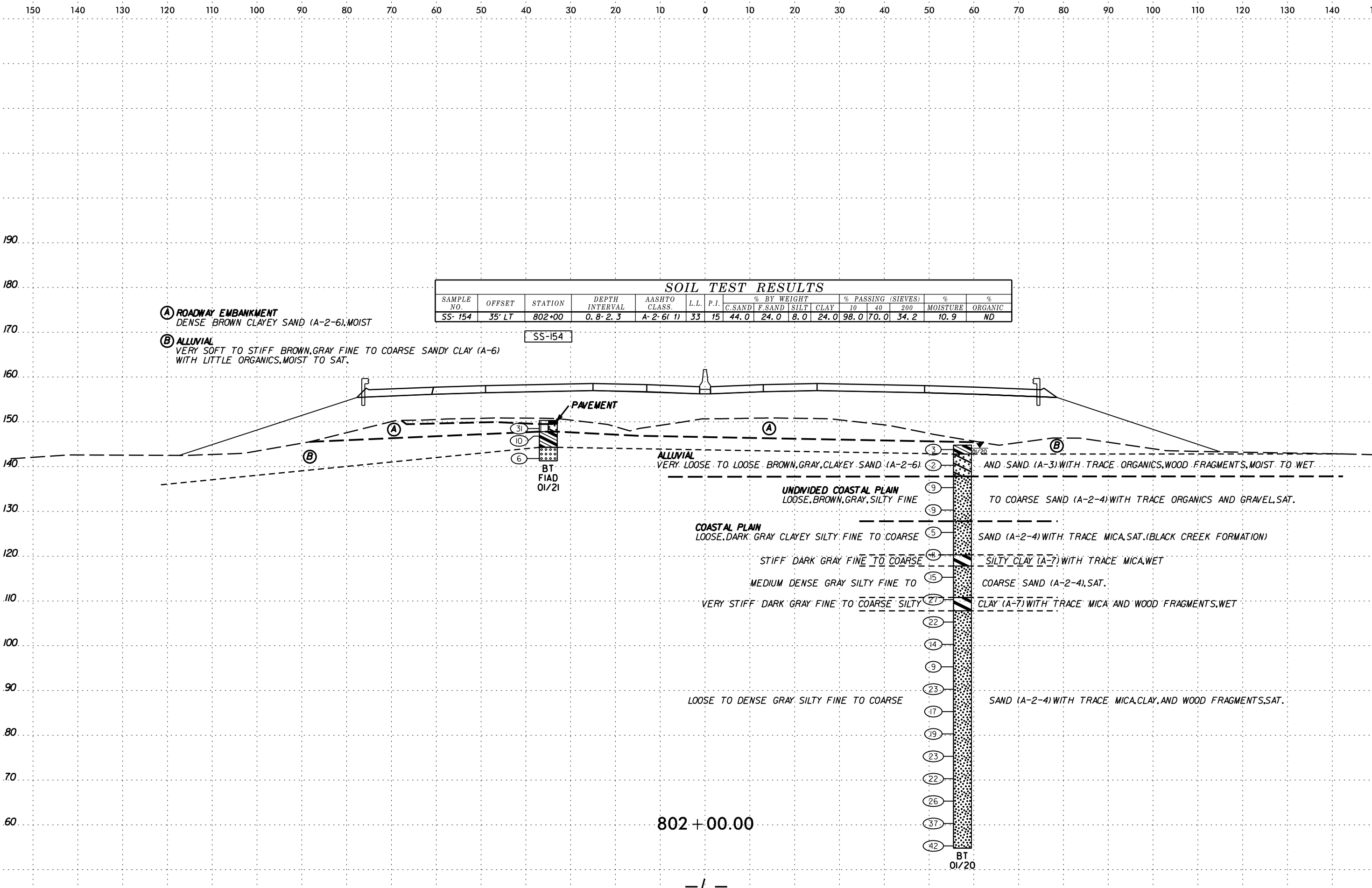
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SCALE: 1" = 10' (VERTICAL) 1" = 100' (HORIZONTAL)



SCHEMATIC CONSTRUCTION

6/23/16



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-154	35' LT	802+00	0.8-2.3	A-2-6(1)	33	15	44.0	24.0	8.0	24.0	98.0	70.0	34.2	10.9	ND

(A) ROADWAY EMBANKMENT
 DENSE BROWN CLAYEY SAND (A-2-6), MOIST

(B) ALLUVIAL
 VERY SOFT TO STIFF BROWN, GRAY FINE TO COARSE SANDY CLAY (A-6)
 WITH LITTLE ORGANICS, MOIST TO SAT.

802 + 00.00

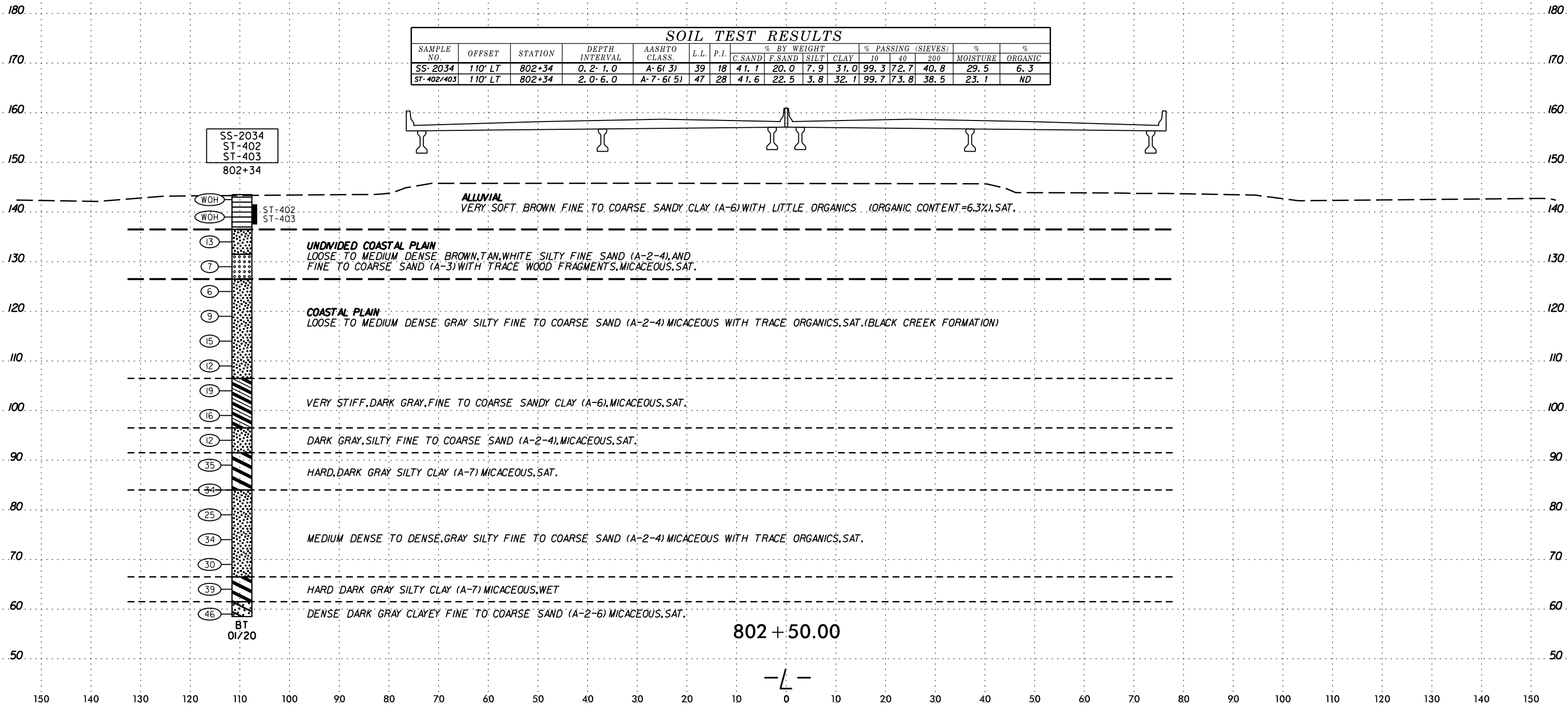
BT 01/20

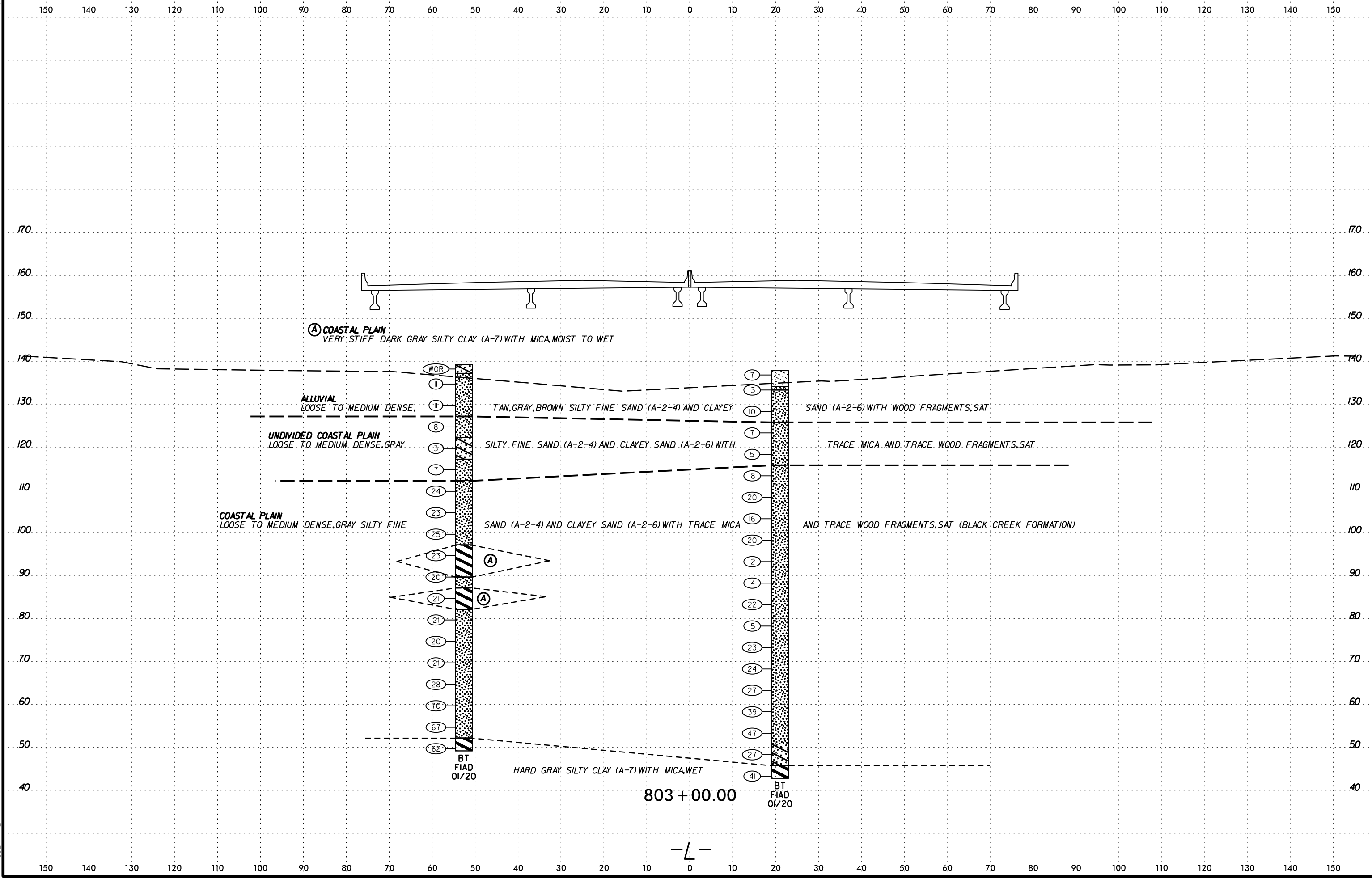
6/23/16

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

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-2034	110' LT	802+34	0.2-1.0	A-6(3)	39	18	41.1	20.0	7.9	31.0	99.3	72.7	40.8	29.5	6.3
ST-402/403	110' LT	802+34	2.0-6.0	A-7-6(5)	47	28	41.6	22.5	3.8	32.1	99.7	73.8	38.5	23.1	ND



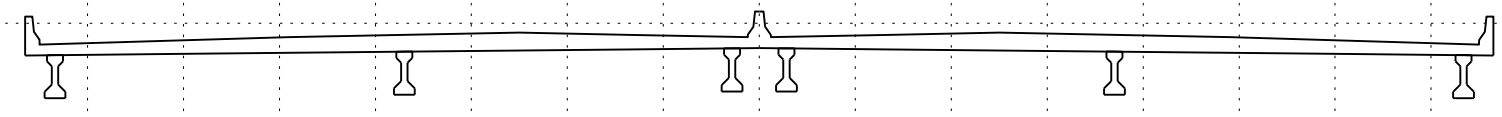
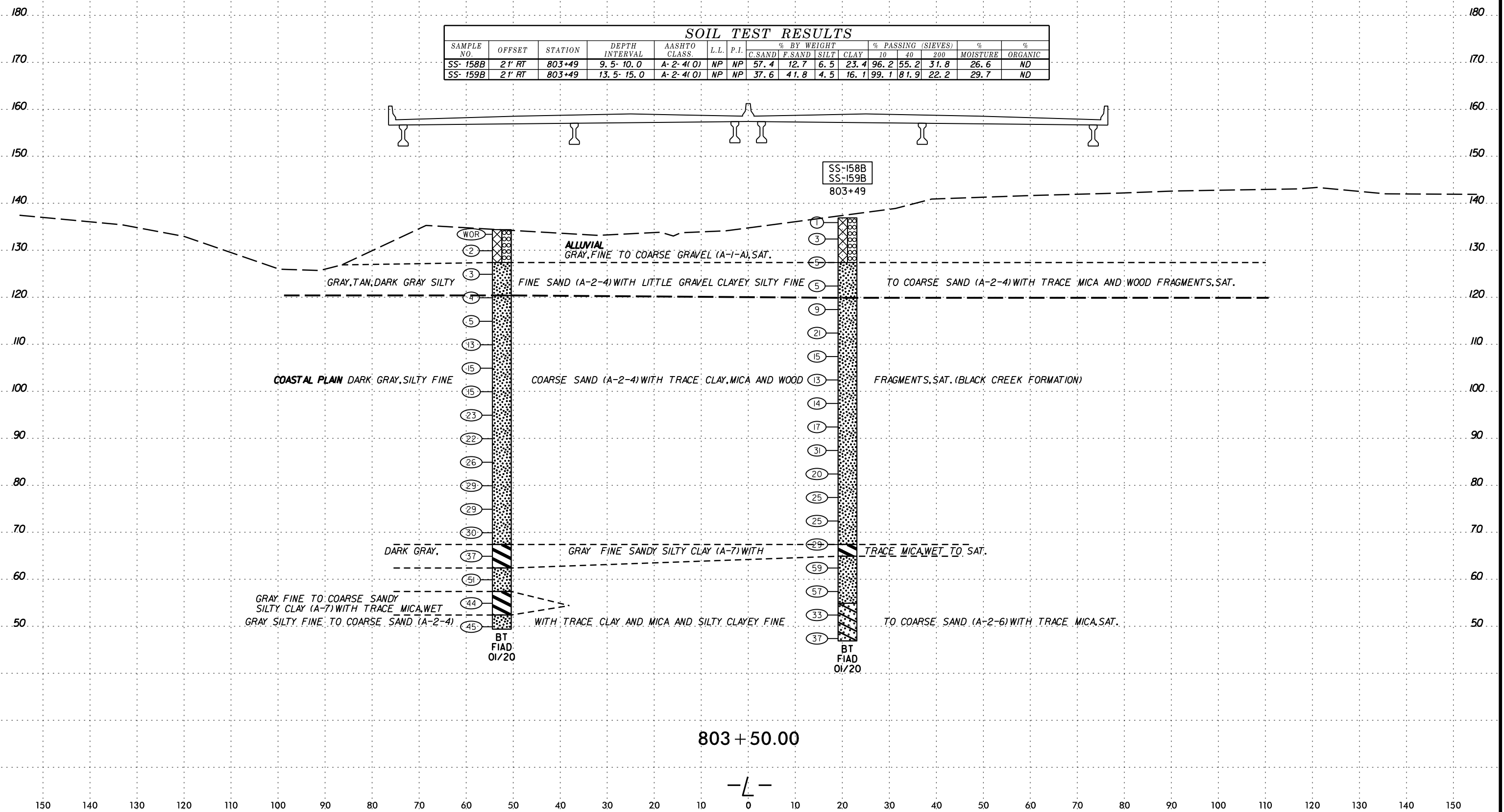


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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-158B	2' RT	803+49	9.5-10.0	A-2-4(O)	NP	NP	57.4	12.7	6.5	23.4	96.2	55.2	31.8	26.6	ND
SS-159B	2' RT	803+49	13.5-15.0	A-2-4(O)	NP	NP	37.6	41.8	4.5	16.1	99.1	81.9	22.2	29.7	ND



SS-158B
SS-159B
803+49

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- 3
- 4
- 5
- 13
- 15
- 15
- 23
- 22
- 26
- 29
- 29
- 30
- 37
- 51
- 44
- 45
- BT
FIAD
01/20

- 1
- 3
- 5
- 5
- 9
- 21
- 15
- 13
- 14
- 17
- 31
- 20
- 25
- 25
- 29
- 59
- 57
- 33
- 37
- BT
FIAD
01/20

ALLUVIAL
GRAY, FINE TO COARSE GRAVEL (A-1-A), SAT.

GRAY, TAN, DARK GRAY SILTY

FINE SAND (A-2-4) WITH LITTLE GRAVEL CLAYEY SILTY FINE

TO COARSE SAND (A-2-4) WITH TRACE MICA AND WOOD FRAGMENTS, SAT.

COASTAL PLAIN DARK GRAY, SILTY FINE

COARSE SAND (A-2-4) WITH TRACE CLAY, MICA AND WOOD

FRAGMENTS, SAT. (BLACK CREEK FORMATION)

DARK GRAY,

GRAY FINE SANDY SILTY CLAY (A-7) WITH

TRACE MICA, WET TO SAT.

GRAY FINE TO COARSE SANDY
SILTY CLAY (A-7) WITH TRACE MICA, WET
GRAY SILTY FINE TO COARSE SAND (A-2-4)

WITH TRACE CLAY AND MICA AND SILTY CLAYEY FINE

TO COARSE SAND (A-2-6) WITH TRACE MICA, SAT.

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

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

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

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

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

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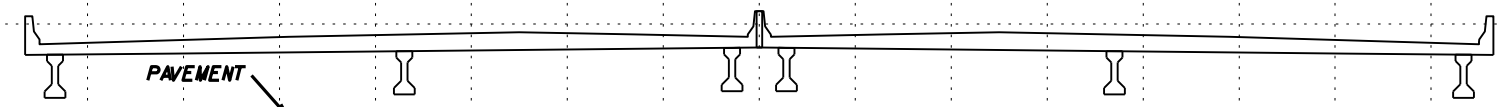
10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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-2067	50' LT	804+09	4.2-5.0	A-7-6(10)	46	29	31.7	20.2	12.7	35.4	99.3	79.8	50.4	19.5	ND
SS-2070	50' LT	804+09	33.5-35.0	A-4(0)	NP	NP	2.4	60.9	15.6	21.1	100.0	99.3	43.0	31.3	ND

SS-2067
SS-2070
804+09

(A) ROADWAY EMBANKMENT
LOOSE TO DENSE BROWN, ORANGE FINE TO COARSE SAND (A-1-B) WITH TRACE GRAVEL AND FINE TO COARSE SAND (A-3), DRY

(B) ROADWAY EMBANKMENT
MEDIUM STIFF BROWN, GRAY SILTY FINE TO COARSE SANDY CLAY (A-7-6), HIGHLY PLASTIC, MOIST



UNDIVIDED COASTAL PLAIN
LOOSE TO MEDIUM DENSE BROWN, TAN, GRAY SILTY FINE TO COARSE SAND WITH TRACE ORGANICS AND MICA, SAT.

COASTAL PLAIN
STIFF GRAY CLAYEY FINE SANDY SILT (A-4) WITH TRACE MICA, WET

COASTAL PLAIN
LOOSE TO MEDIUM DENSE DARK GRAY, GRAY CLAYEY SILTY

LOOSE TO MEDIUM DENSE GRAY, SILTY CLAYEY FINE TO COARSE

ALLUVIAL
VERY LOOSE TO LOOSE BROWN, TAN SILTY FINE TO COARSE SAND (A-2-4) WITH TRACE ORGANICS, SAT.

(A-2-4) WITH TRACE WOOD FRAGMENTS, TRACE ORGANICS, GRAVEL, CLAY AND FINE TO COARSE SAND

FINE TO COARSE SAND (A-2-4) WITH TRACE GRAVEL AND SILTY CLAYEY FINE TO COARSE SAND

DARK GRAY, FINE TO COARSE SANDY SILTY CLAY (A-7) WITH TRACE MICA AND WOOD

SAND (A-2-6) WITH TRACE ORGANICS AND MICA AND CLAYEY SILTY FINE TO COARSE SAND (A-2-4)

WITH TRACE ORGANICS AND MICA AND WOOD FRAGMENTS, SAT.

DENSE TO VERY DENSE GRAY SILTY FINE TO COARSE SAND (A-2-4) WITH TRACE MICA, SAT.

ALLUVIAL
SOFT BROWN MUCK, SAT.

(A-3) AND SILTY CLAYEY FINE TO COARSE SAND (A-2-6)

(A-2-6) MICACEOUS, SAT.

FRAGMENTS, WET

WITH TRACE ORGANICS AND MICA AND WOOD FRAGMENTS, SAT.

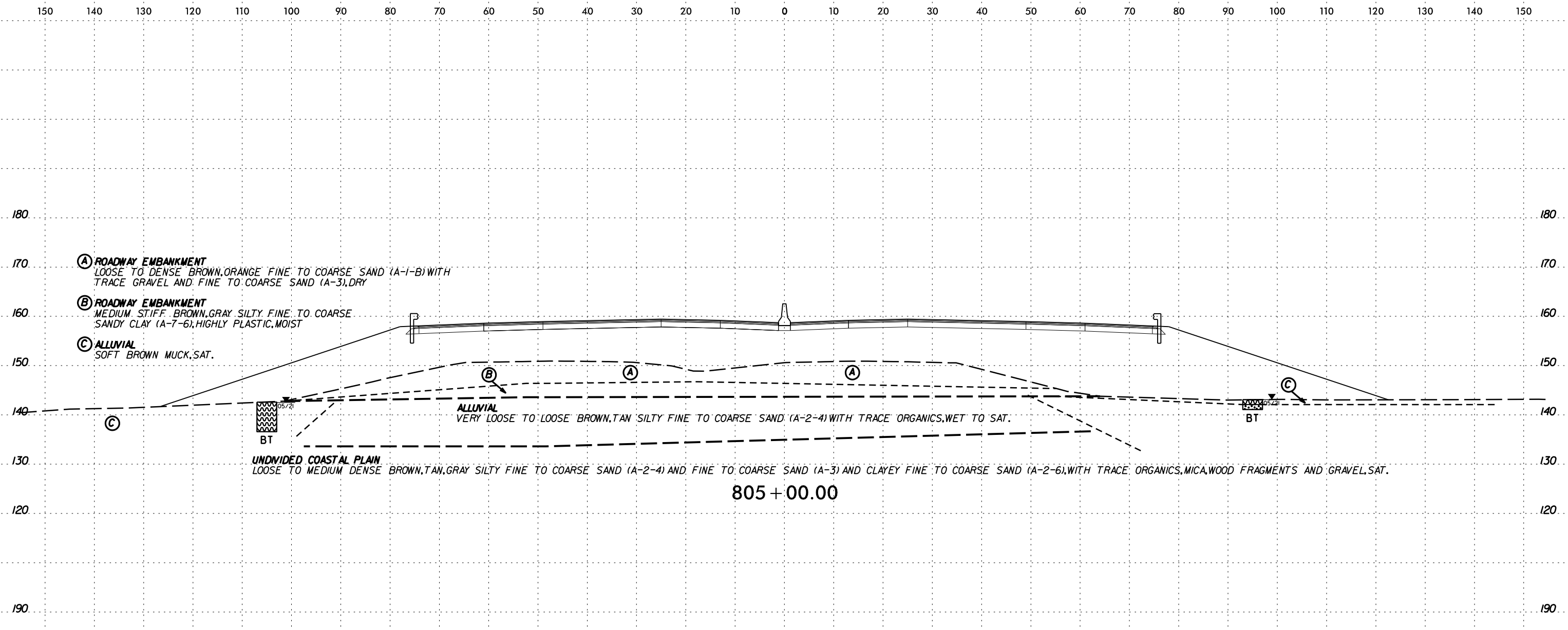
DENSE TO VERY DENSE GRAY SILTY CLAY (A-7) WITH TRACE FINE TO COARSE SAND AND MICA, MOIST

SAND (A-2-4) WITH TRACE MICA, SAT.

804+00.00

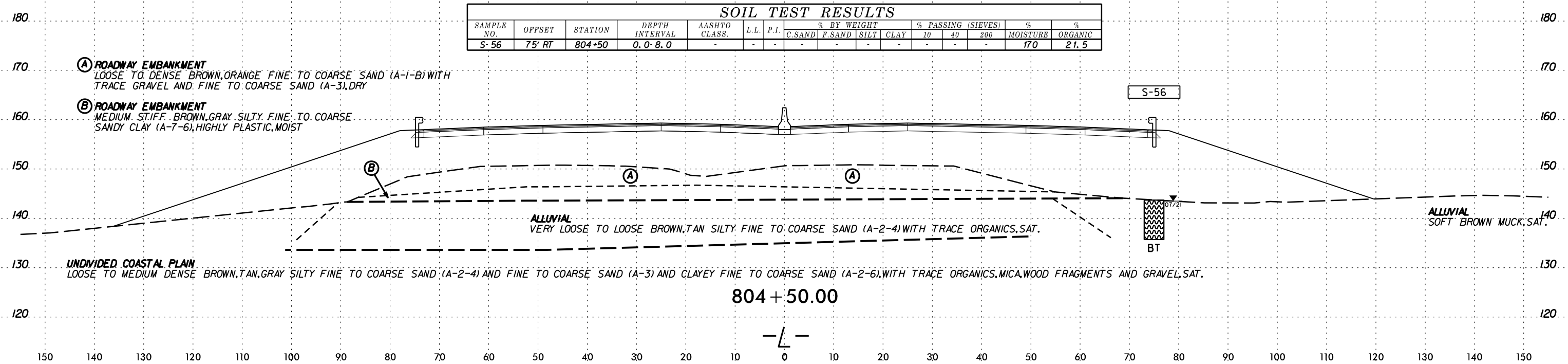
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SCHEMATIC CONSTRUCTION INFORMATION



SOIL TEST RESULTS

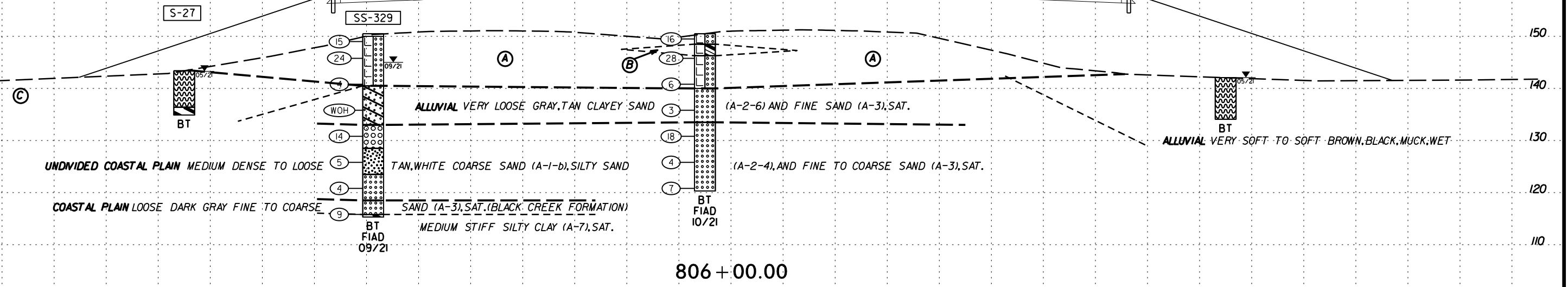
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-56	75' RT	804+50	0.0-8.0	-	-	-	-	-	-	-	-	-	-	170	21.5



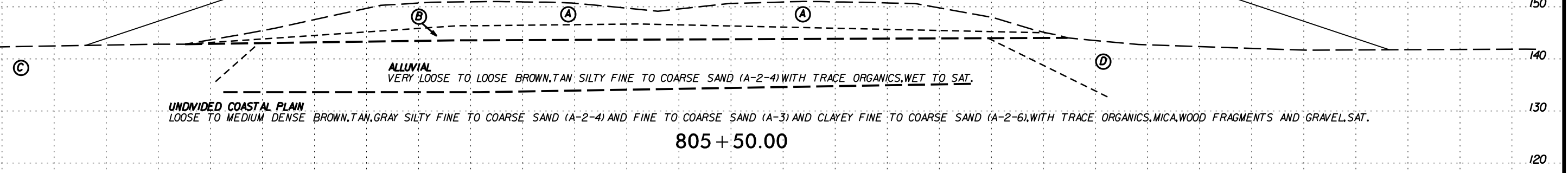
6/23/16

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-27	105' LT	806+00	0.0-7.0	-	-	-	-	-	-	-	-	-	-	92.2	21.5
SS-329	69' LT	806+00	13.7-15.2	A-2-6(O)	32	18	57.4	17.9	4.1	20.6	99.3	61.8	26.4	22.3	ND

- (A) ROADWAY EMBANKMENT**
VERY LOOSE TO MEDIUM DENSE, BROWN, GRAY, TAN CLAYEY FINE SAND (A-2-6) AND FINE SAND (A-3), MOIST TO SAT.
- (B) ROADWAY EMBANKMENT**
VERY STIFF, GRAY SANDY CLAY (A-6), MOIST
- (C) ALLUVIAL**
VERY SOFT TO SOFT, BROWN, BLACK, CLAY (A-7) AND MUCK, WET



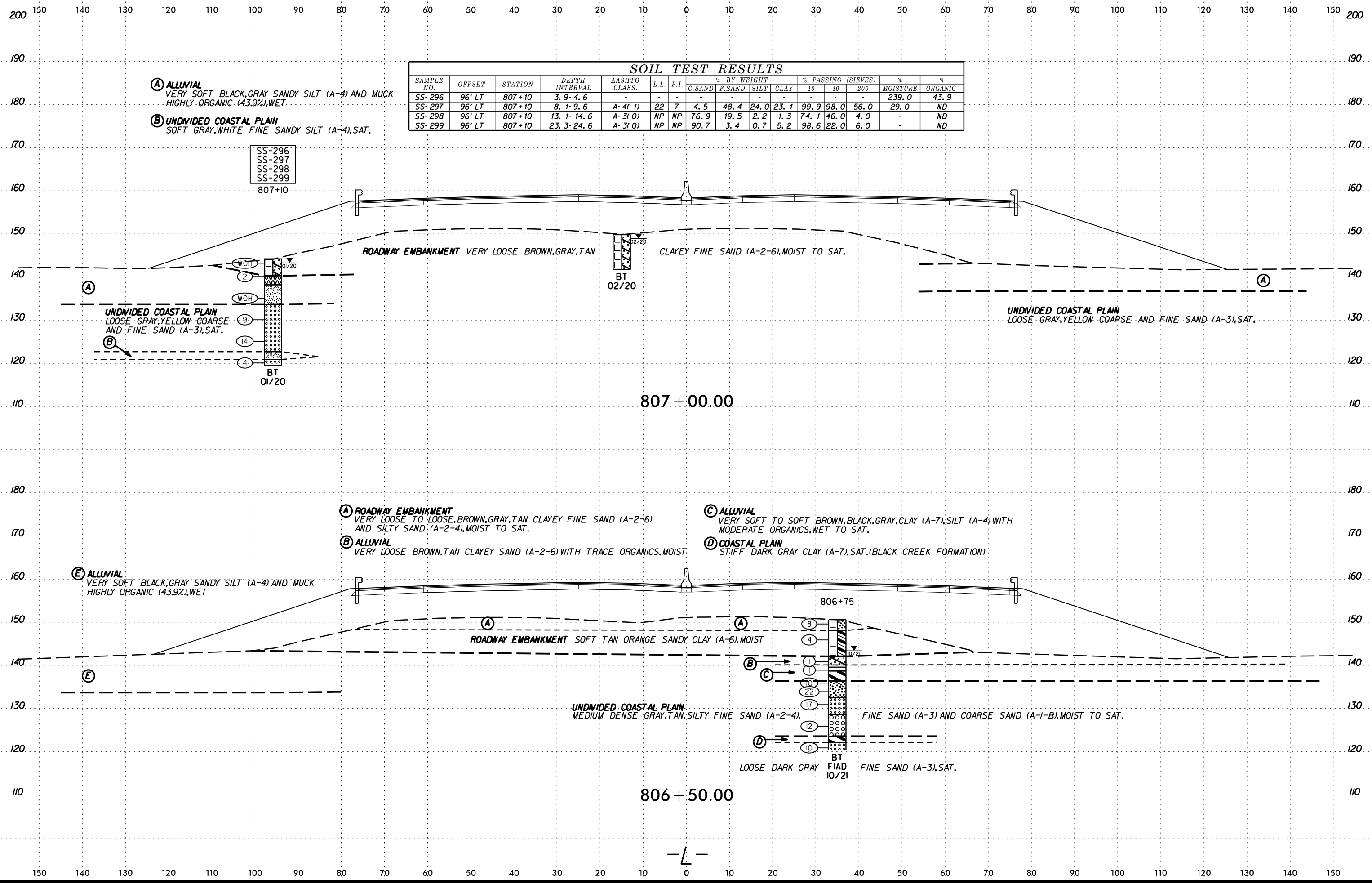
- (A) ROADWAY EMBANKMENT**
LOOSE TO DENSE BROWN, ORANGE FINE TO COARSE SAND (A-1-B) WITH TRACE GRAVEL AND FINE TO COARSE SAND (A-3), DRY
- (B) ROADWAY EMBANKMENT**
MEDIUM STIFF, BROWN, GRAY SILTY FINE TO COARSE SANDY CLAY (A-7-6), HIGHLY PLASTIC, MOIST
- (C) ALLUVIAL**
SOFT BROWN MUCK, SAT.



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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-296	96' LT	807+10	3.9-4.6	-	-	-	-	-	-	-	-	-	239.0	43.9	
SS-297	96' LT	807+10	8.1-9.6	A-4(1)	22	7	4.5	48.4	24.0	23.1	99.9	98.0	56.0	29.0	ND
SS-298	96' LT	807+10	13.1-14.6	A-3(0)	NP	NP	76.9	19.5	2.2	1.3	74.1	46.0	4.0	-	ND
SS-299	96' LT	807+10	23.3-24.6	A-3(0)	NP	NP	90.7	3.4	0.7	5.2	98.6	22.0	6.0	-	ND



(A) ALLUVIAL
 VERY SOFT BLACK, GRAY SANDY SILT (A-4) AND MUCK
 HIGHLY ORGANIC (43.9%), WET.

(B) UNDIVIDED COASTAL PLAIN
 SOFT GRAY, WHITE FINE SANDY SILT (A-4), SAT.

SS-296
 SS-297
 SS-298
 SS-299
 807+10

ROADWAY EMBANKMENT VERY LOOSE BROWN, GRAY, TAN

807 + 00.00

(A) ROADWAY EMBANKMENT
 VERY LOOSE TO LOOSE, BROWN, GRAY, TAN CLAYEY FINE SAND (A-2-6)
 AND SILTY SAND (A-2-4), MOIST TO SAT.

(B) ALLUVIAL
 VERY LOOSE BROWN, TAN CLAYEY SAND (A-2-6) WITH TRACE ORGANICS, MOIST.

(C) ALLUVIAL
 VERY SOFT TO SOFT BROWN, BLACK, GRAY, CLAY (A-7), SILT (A-4) WITH
 MODERATE ORGANICS, WET TO SAT.

(D) COASTAL PLAIN
 STIFF DARK GRAY CLAY (A-7), SAT. (BLACK CREEK FORMATION)

(E) ALLUVIAL
 VERY SOFT BLACK, GRAY SANDY SILT (A-4) AND MUCK
 HIGHLY ORGANIC (43.9%), WET.

ROADWAY EMBANKMENT SOFT TAN ORANGE SANDY CLAY (A-6), MOIST

UNDIVIDED COASTAL PLAIN
 MEDIUM DENSE GRAY, TAN, SILTY FINE SAND (A-2-4),

806 + 50.00

BT 01/20

BT 02/20

BT FIAD 10/21

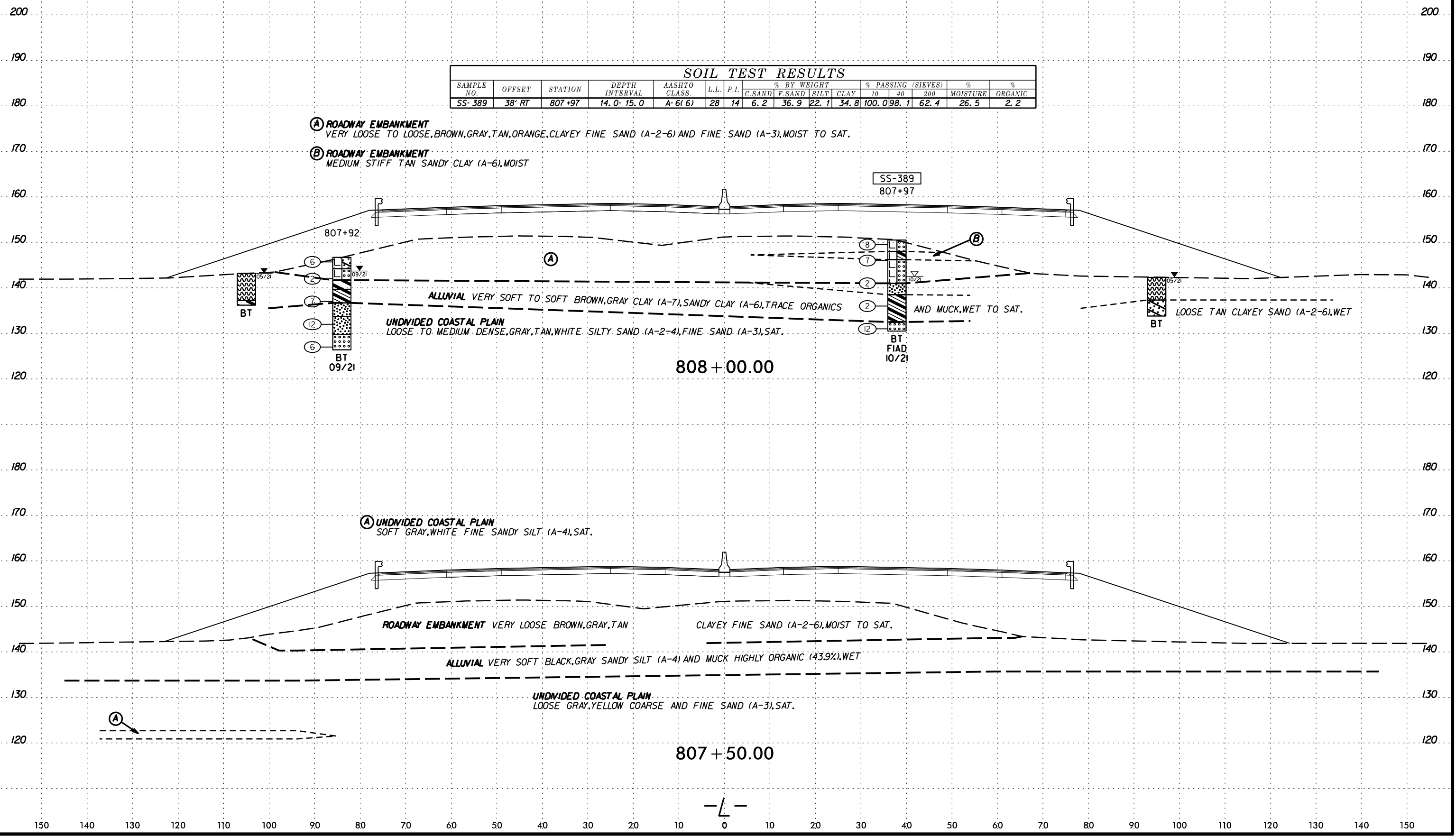
FINE SAND (A-3) AND COARSE SAND (A-1-B), MOIST TO SAT.

FINE SAND (A-3), SAT.

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-389	38' RT	807+97	14.0-15.0	A-6(6)	28	14	6.2	36.9	22.1	34.8	100.0	98.1	62.4	26.5	2.2

- (A) ROADWAY EMBANKMENT
VERY LOOSE TO LOOSE, BROWN, GRAY, TAN, ORANGE, CLAYEY FINE SAND (A-2-6) AND FINE SAND (A-3), MOIST TO SAT.
- (B) ROADWAY EMBANKMENT
MEDIUM STIFF TAN SANDY CLAY (A-6), MOIST



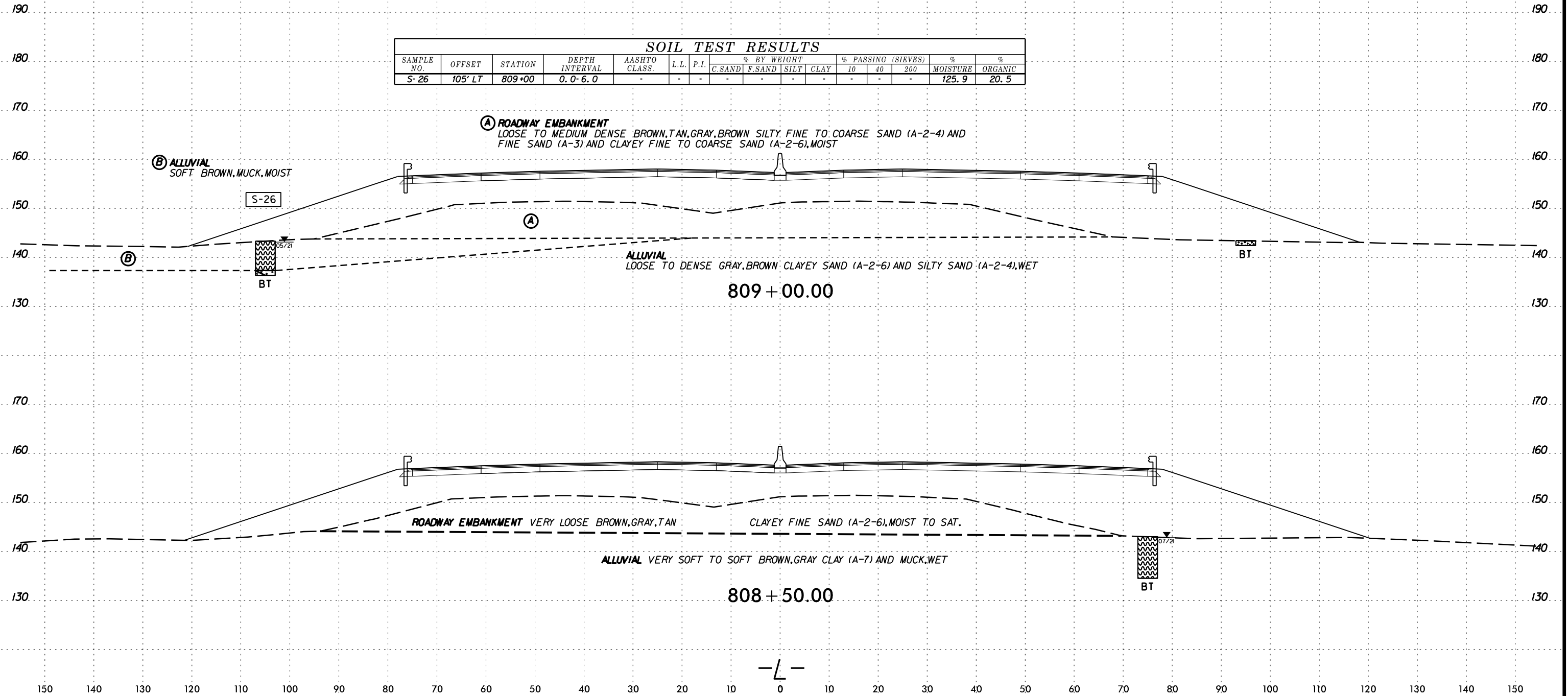
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SOIL TEST RESULTS

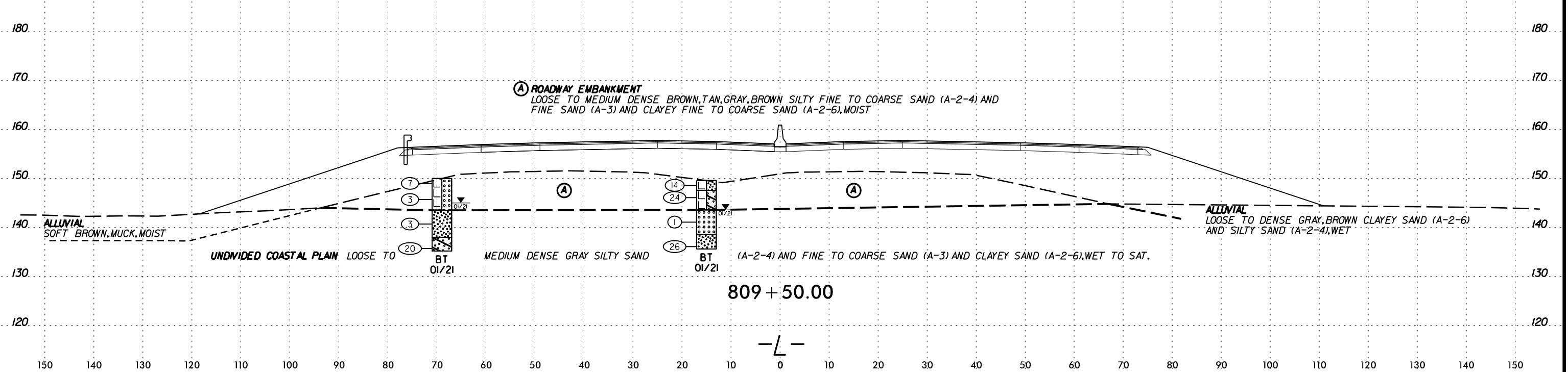
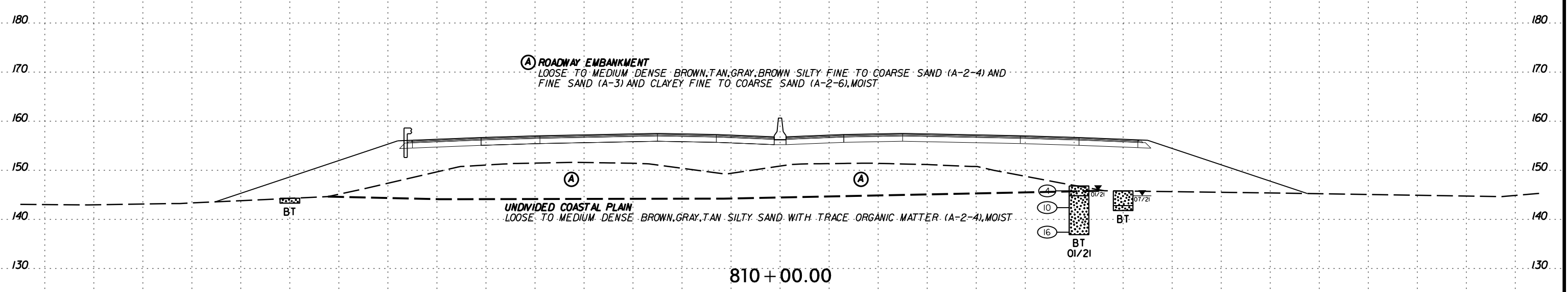
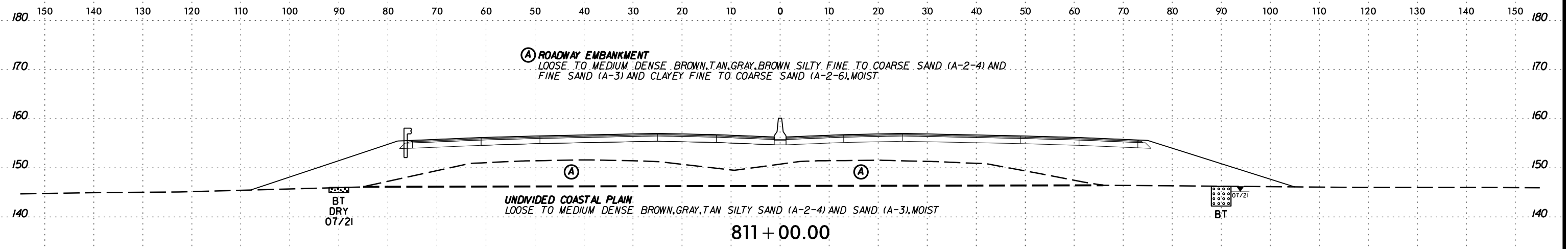
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
S-26	105' LT	809+00	0.0-6.0	-	-	-	-	-	-	-	-	-	-	125.9	20.5



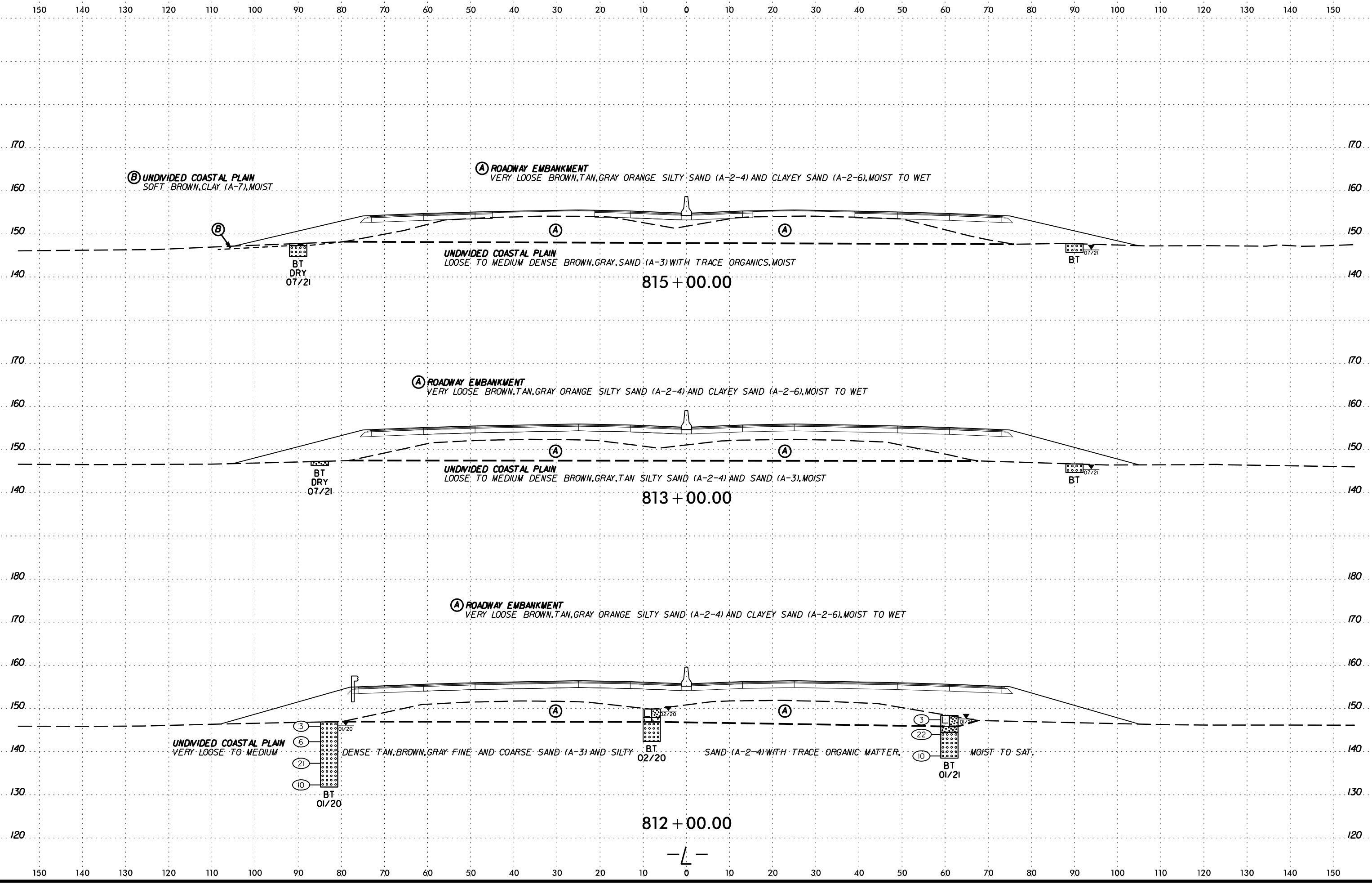
DATE: 6/23/16
 DRAWN BY: [unclear]
 CHECKED BY: [unclear]
 APPROVED BY: [unclear]

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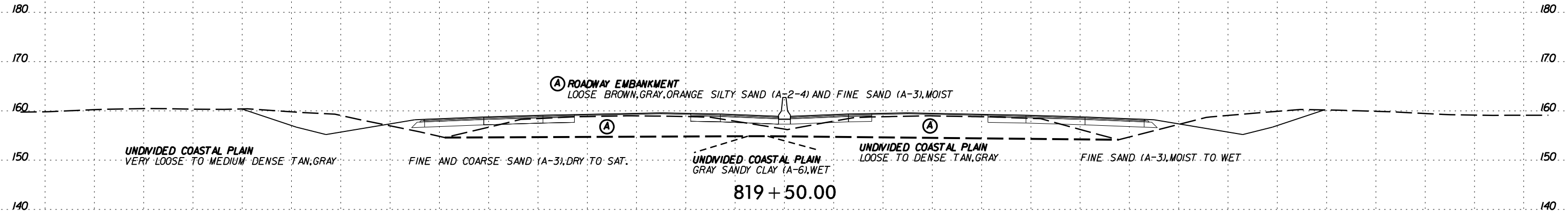
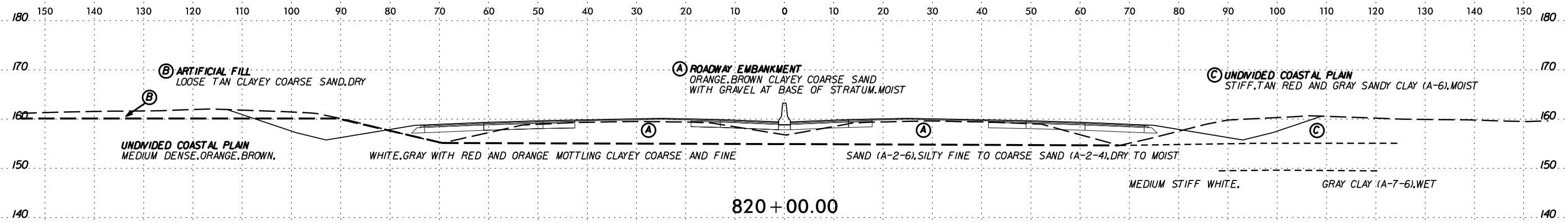
6/23/16
SCHEMATIC CROSS SECTION
PREFINAL



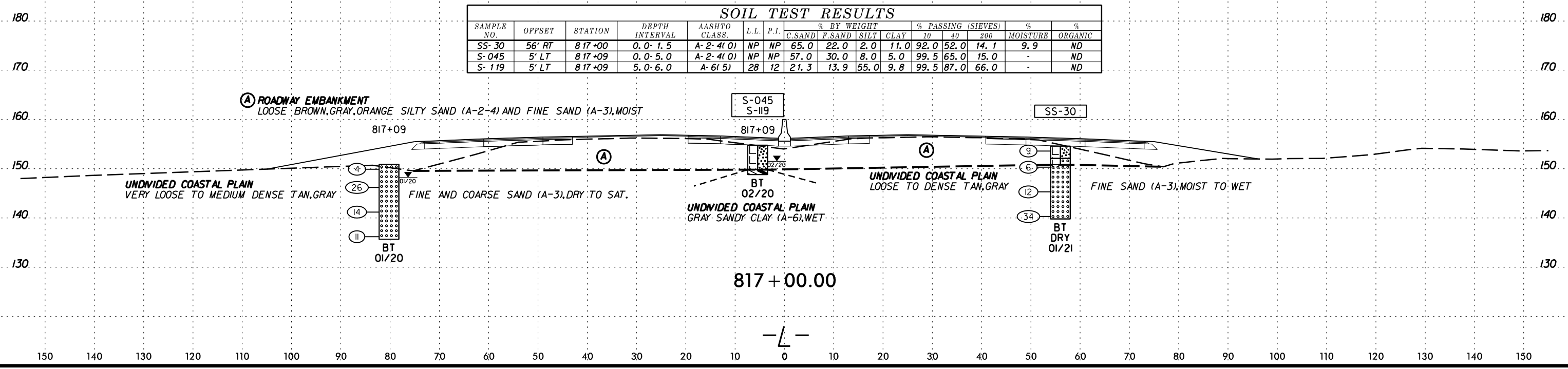
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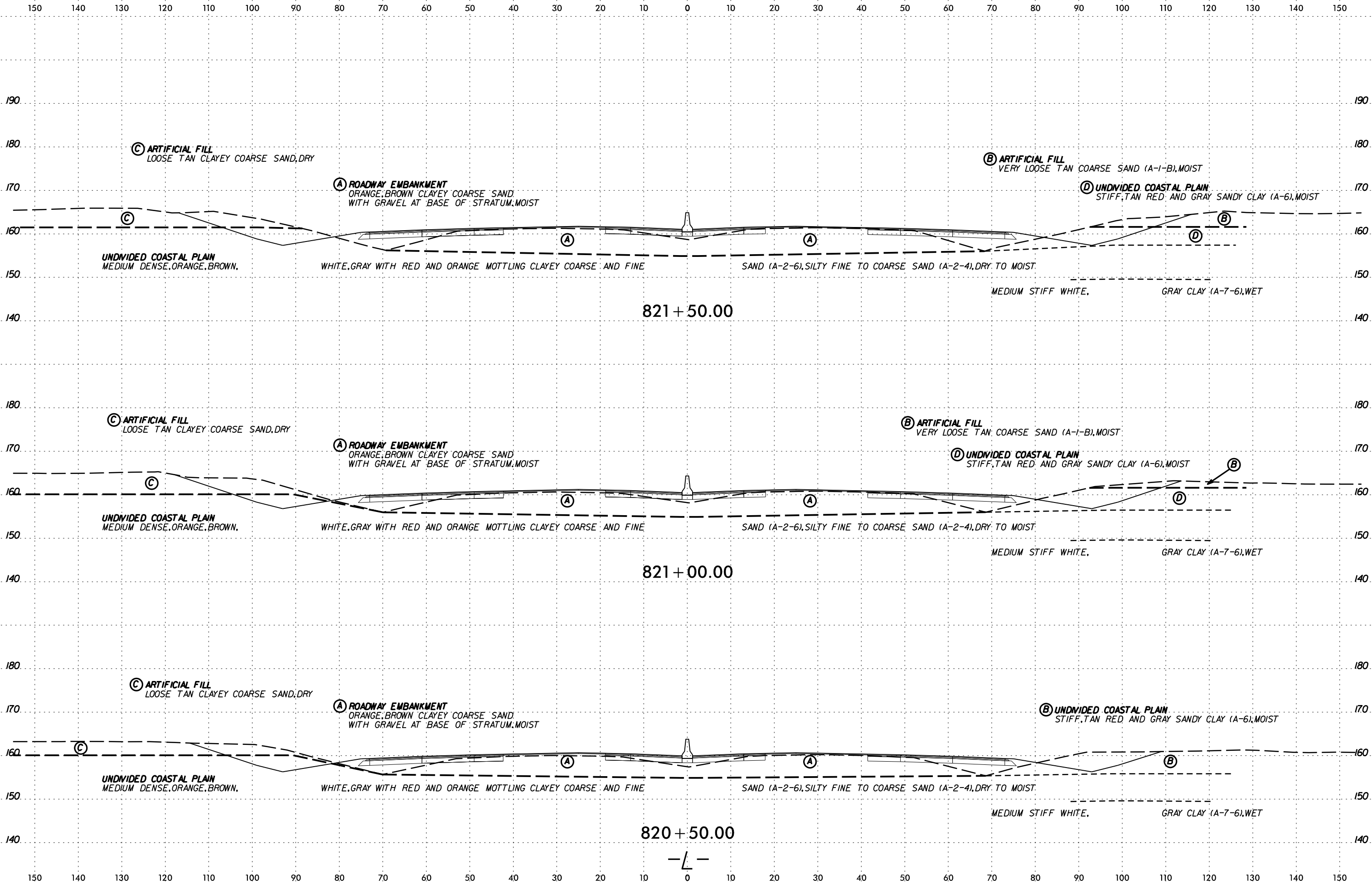
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 PROJECT: I-5987B



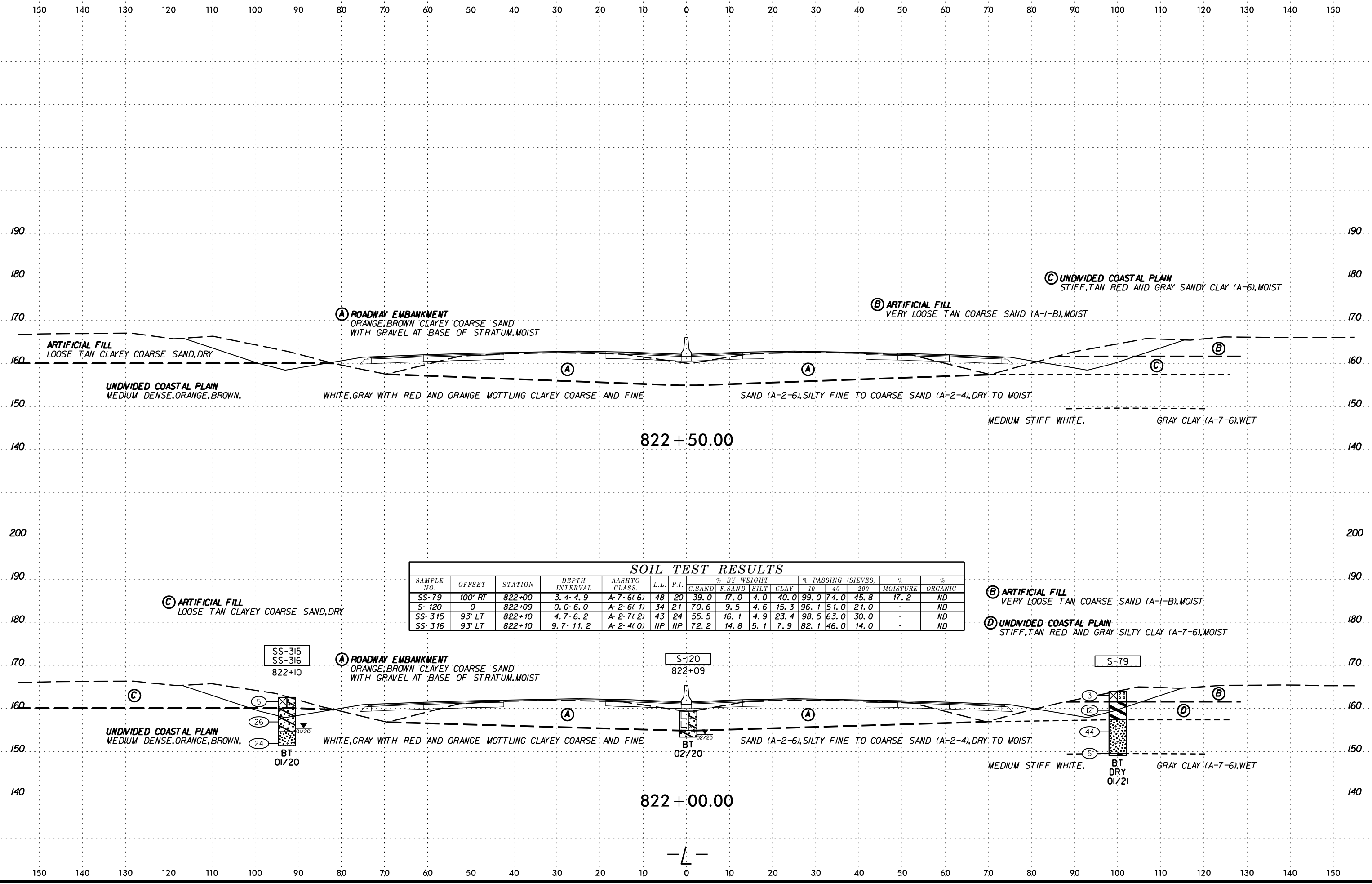
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-30	56' RT	817+00	0.0-1.5	A-2-4(0)	NP	NP	65.0	22.0	2.0	11.0	92.0	52.0	14.1	9.9	ND
S-045	5' LT	817+09	0.0-5.0	A-2-4(0)	NP	NP	57.0	30.0	8.0	5.0	99.5	65.0	15.0	-	ND
S-119	5' LT	817+09	5.0-6.0	A-6(5)	28	12	21.3	13.9	55.0	9.8	99.5	87.0	66.0	-	ND



SCHEMATIC CONSTRUCTION



SCHEMATIC CROSS SECTION



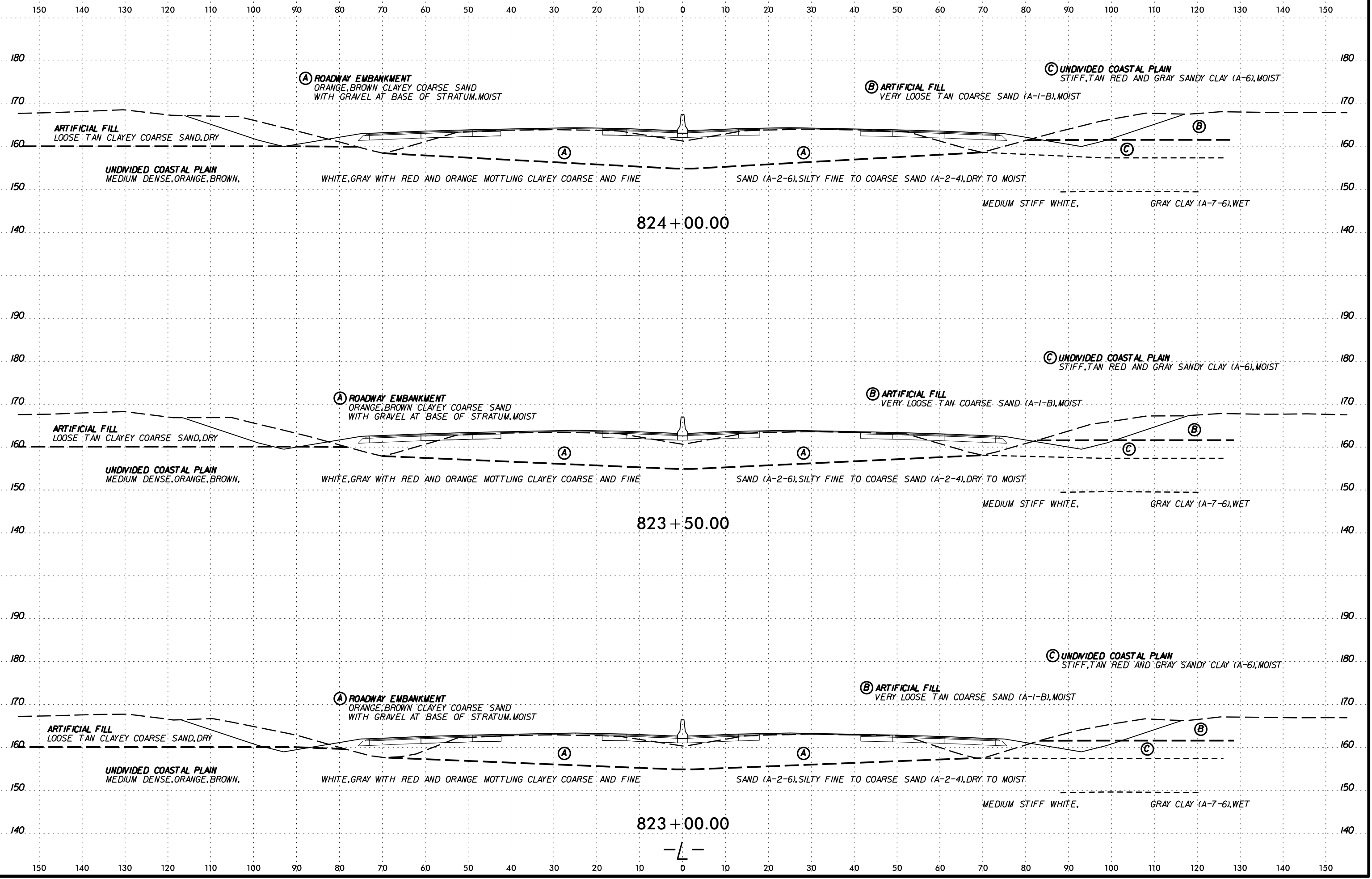
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-79	100' RT	822+00	3.4-4.9	A-7-6(6)	48	20	39.0	17.0	4.0	40.0	99.0	74.0	45.8	17.2	ND
S-120	0	822+09	0.0-6.0	A-2-6(1)	34	21	70.6	9.5	4.6	15.3	96.1	51.0	21.0	-	ND
SS-315	93' LT	822+10	4.7-6.2	A-2-7(2)	43	24	55.5	16.1	4.9	23.4	98.5	63.0	30.0	-	ND
SS-316	93' LT	822+10	9.7-11.2	A-2-4(0)	NP	NP	72.2	14.8	5.1	7.9	82.1	46.0	14.0	-	ND

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

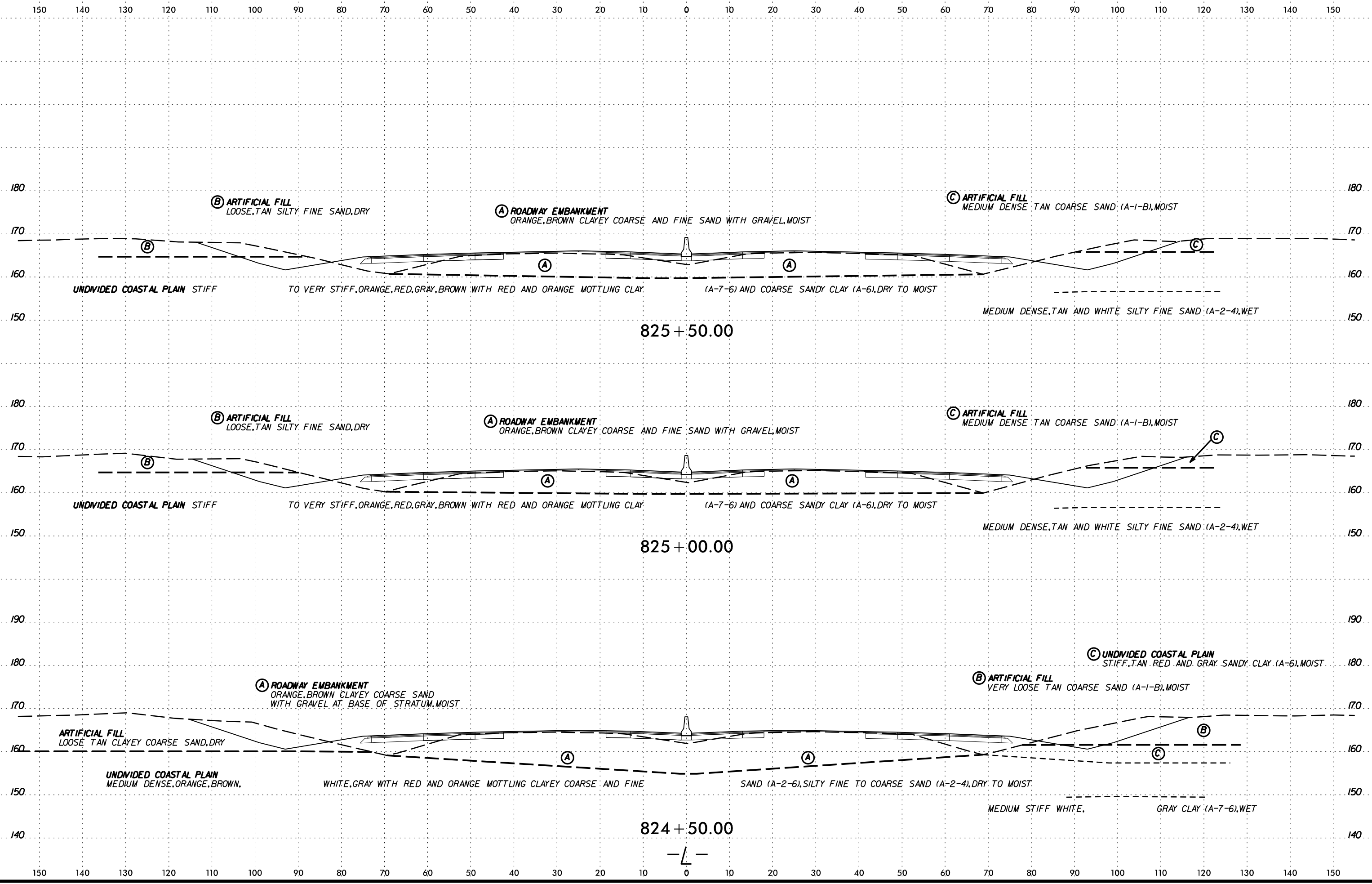
822 + 50.00

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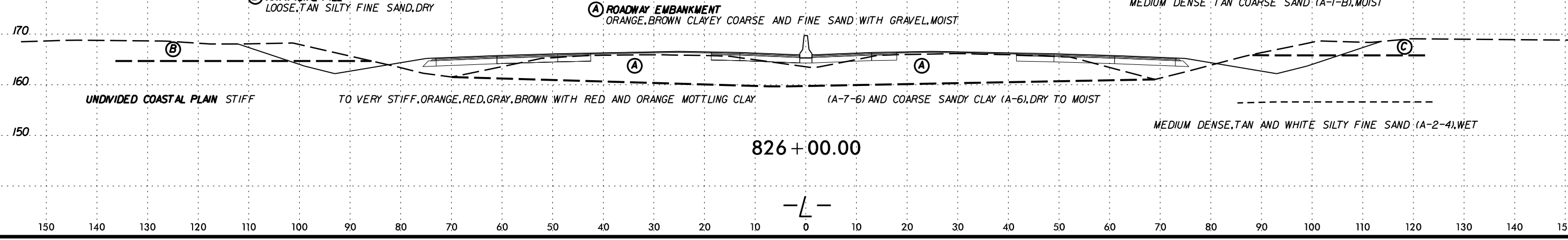
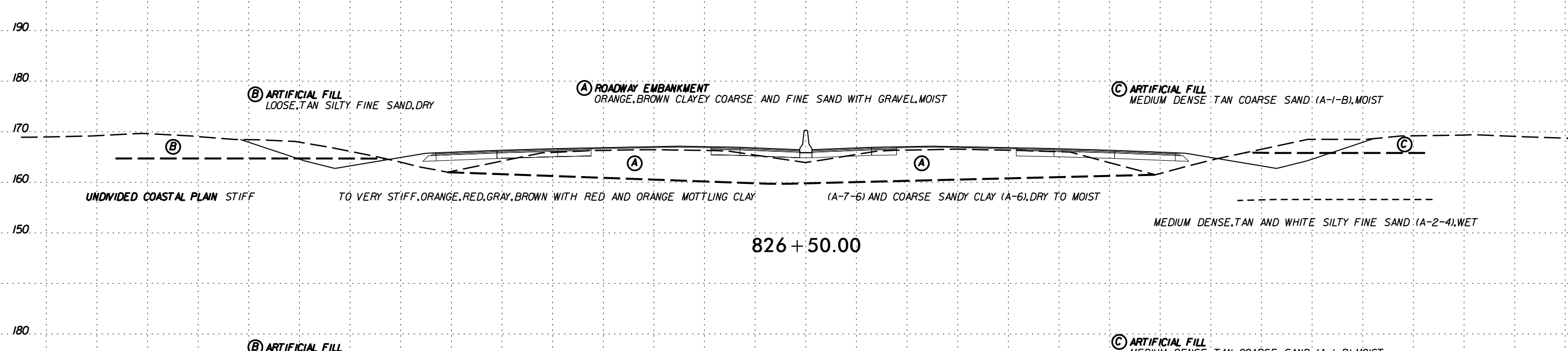
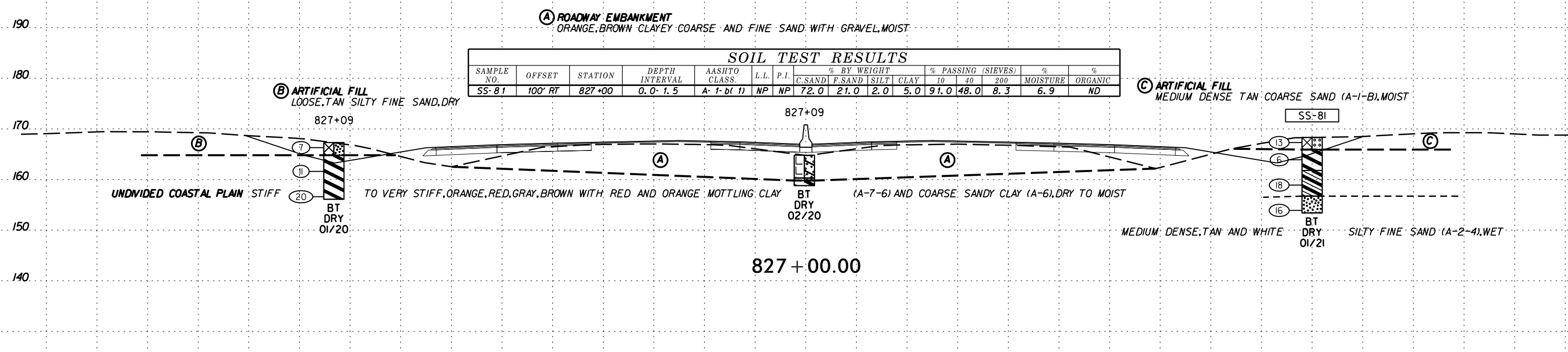
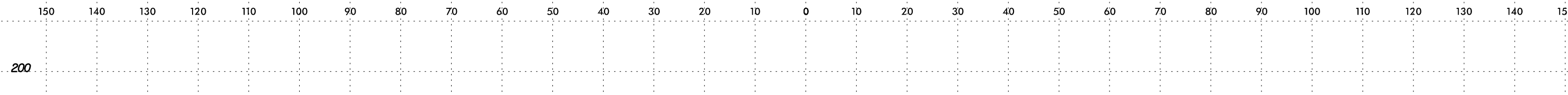
SCHEMATIC DEVELOPMENT



SECTION CUTS TO BE USED FOR CONSTRUCTION

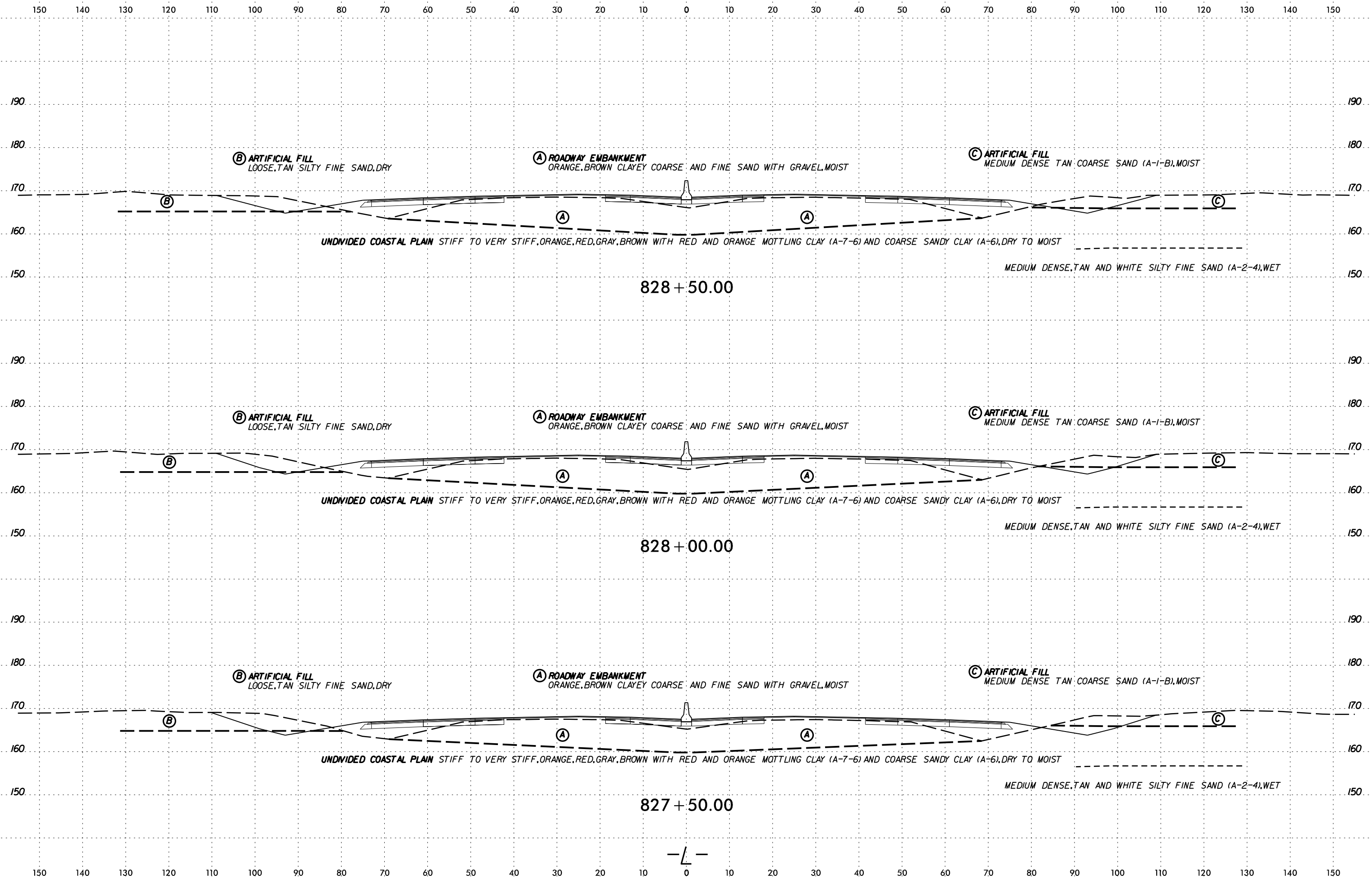
SOIL TEST RESULTS

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	40			200
SS-81	100' RT	827+00	0.0-1.5	A-1-b(1)	NP	NP	72.0	21.0	2.0	5.0	91.0	48.0	8.3	6.9	ND



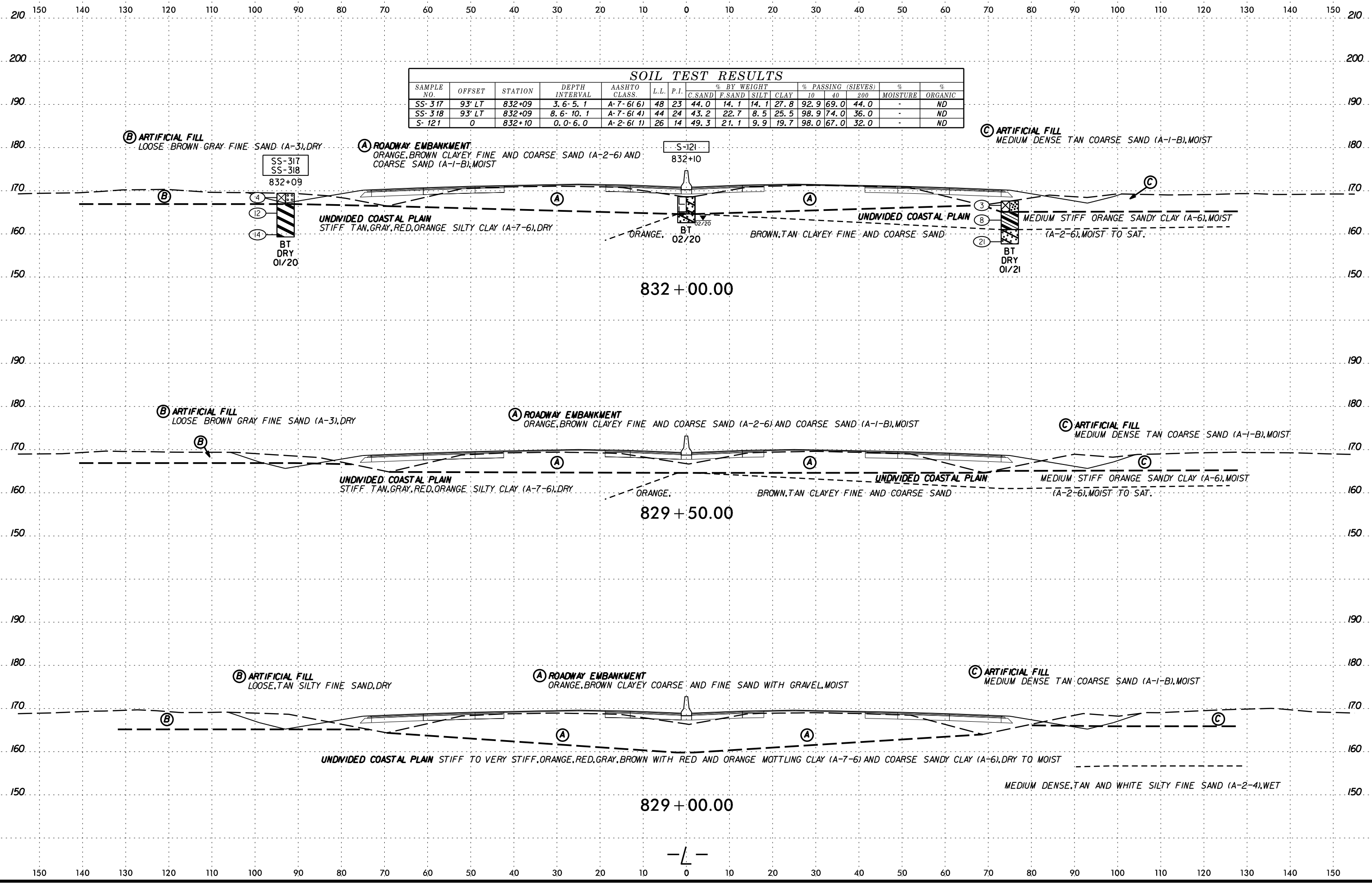
10' 15' 20' 25' 30' 35' 40' 45' 50' 55' 60' 65' 70' 75' 80' 85' 90' 95' 100' 105' 110' 115' 120' 125' 130' 135' 140' 145' 150' 155' 160' 165' 170' 175' 180' 185' 190' 195' 200' 205' 210' 215' 220' 225' 230' 235' 240' 245' 250' 255' 260' 265' 270' 275' 280' 285' 290' 295' 300' 305' 310' 315' 320' 325' 330' 335' 340' 345' 350' 355' 360' 365' 370' 375' 380' 385' 390' 395' 400' 405' 410' 415' 420' 425' 430' 435' 440' 445' 450' 455' 460' 465' 470' 475' 480' 485' 490' 495' 500' 505' 510' 515' 520' 525' 530' 535' 540' 545' 550' 555' 560' 565' 570' 575' 580' 585' 590' 595' 600' 605' 610' 615' 620' 625' 630' 635' 640' 645' 650' 655' 660' 665' 670' 675' 680' 685' 690' 695' 700' 705' 710' 715' 720' 725' 730' 735' 740' 745' 750' 755' 760' 765' 770' 775' 780' 785' 790' 795' 800' 805' 810' 815' 820' 825' 830' 835' 840' 845' 850' 855' 860' 865' 870' 875' 880' 885' 890' 895' 900' 905' 910' 915' 920' 925' 930' 935' 940' 945' 950' 955' 960' 965' 970' 975' 980' 985' 990' 995' 1000' 1005' 1010' 1015' 1020' 1025' 1030' 1035' 1040' 1045' 1050' 1055' 1060' 1065' 1070' 1075' 1080' 1085' 1090' 1095' 1100' 1105' 1110' 1115' 1120' 1125' 1130' 1135' 1140' 1145' 1150' 1155' 1160' 1165' 1170' 1175' 1180' 1185' 1190' 1195' 1200' 1205' 1210' 1215' 1220' 1225' 1230' 1235' 1240' 1245' 1250' 1255' 1260' 1265' 1270' 1275' 1280' 1285' 1290' 1295' 1300' 1305' 1310' 1315' 1320' 1325' 1330' 1335' 1340' 1345' 1350' 1355' 1360' 1365' 1370' 1375' 1380' 1385' 1390' 1395' 1400' 1405' 1410' 1415' 1420' 1425' 1430' 1435' 1440' 1445' 1450' 1455' 1460' 1465' 1470' 1475' 1480' 1485' 1490' 1495' 1500' 1505' 1510' 1515' 1520' 1525' 1530' 1535' 1540' 1545' 1550' 1555' 1560' 1565' 1570' 1575' 1580' 1585' 1590' 1595' 1600' 1605' 1610' 1615' 1620' 1625' 1630' 1635' 1640' 1645' 1650' 1655' 1660' 1665' 1670' 1675' 1680' 1685' 1690' 1695' 1700' 1705' 1710' 1715' 1720' 1725' 1730' 1735' 1740' 1745' 1750' 1755' 1760' 1765' 1770' 1775' 1780' 1785' 1790' 1795' 1800' 1805' 1810' 1815' 1820' 1825' 1830' 1835' 1840' 1845' 1850' 1855' 1860' 1865' 1870' 1875' 1880' 1885' 1890' 1895' 1900' 1905' 1910' 1915' 1920' 1925' 1930' 1935' 1940' 1945' 1950' 1955' 1960' 1965' 1970' 1975' 1980' 1985' 1990' 1995' 2000' 2005' 2010' 2015' 2020' 2025' 2030' 2035' 2040' 2045' 2050' 2055' 2060' 2065' 2070' 2075' 2080' 2085' 2090' 2095' 2100' 2105' 2110' 2115' 2120' 2125' 2130' 2135' 2140' 2145' 2150' 2155' 2160' 2165' 2170' 2175' 2180' 2185' 2190' 2195' 2200' 2205' 2210' 2215' 2220' 2225' 2230' 2235' 2240' 2245' 2250' 2255' 2260' 2265' 2270' 2275' 2280' 2285' 2290' 2295' 2300' 2305' 2310' 2315' 2320' 2325' 2330' 2335' 2340' 2345' 2350' 2355' 2360' 2365' 2370' 2375' 2380' 2385' 2390' 2395' 2400' 2405' 2410' 2415' 2420' 2425' 2430' 2435' 2440' 2445' 2450' 2455' 2460' 2465' 2470' 2475' 2480' 2485' 2490' 2495' 2500'

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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-317	93' LT	832+09	3.6-5.1	A-7-6(6)	48	23	44.0	14.1	14.1	27.8	92.9	69.0	44.0	-	ND
SS-318	93' LT	832+09	8.6-10.1	A-7-6(4)	44	24	43.2	22.7	8.5	25.5	98.9	74.0	36.0	-	ND
S-121	0	832+10	0.0-6.0	A-2-6(1)	26	14	49.3	21.1	9.9	19.7	98.0	67.0	32.0	-	ND



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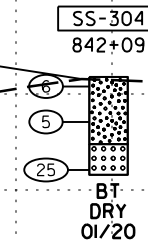
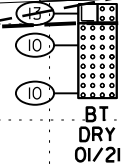
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-304	90' RT	842+09	0.0-1.5	A-2-4(O)	NP	NP	71.1	18.7	4.9	5.3	99.9	55.0	12.0	-	ND

(A) ROADWAY EMBANKMENT
MEDIUM DENSE, TAN FINE SAND (A-3) TRACE GRAVEL, MOIST

UNDIVIDED COASTAL PLAIN
LOOSE TO MEDIUM DENSE.

LIGHT BROWN, GRAY, TAN, FINE AND COARSE SAND (A-3), CLAYEY SAND (A-2-6) AND SILTY SAND (A-2-4), DRY TO WET



842 + 00.00

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(B) ARTIFICIAL FILL
LOOSE, GRAY FINE SAND (A-3), DRY

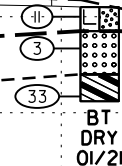
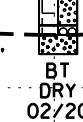
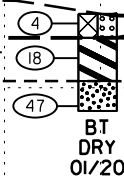
(A) ROADWAY EMBANKMENT
MEDIUM DENSE, TAN, BROWN SILTY SAND (A-2-4) AND FINE AND COARSE SAND (A-1-B), MOIST

UNDIVIDED COASTAL PLAIN VERY STIFF GRAY WITH ORANGE

AND RED MOTTLING COARSE SILTY CLAY (A-7), DRY

BROWN SILTY FINE SAND (A-3),

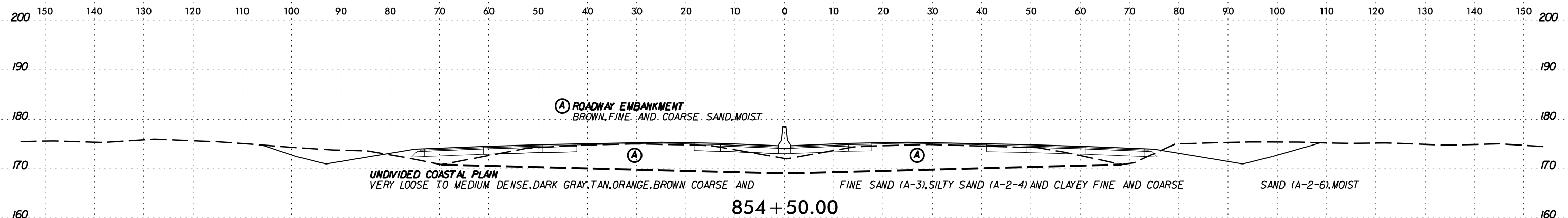
HARD RED, TAN AND ORANGE SANDY CLAY (A-6), WET



837 + 00.00

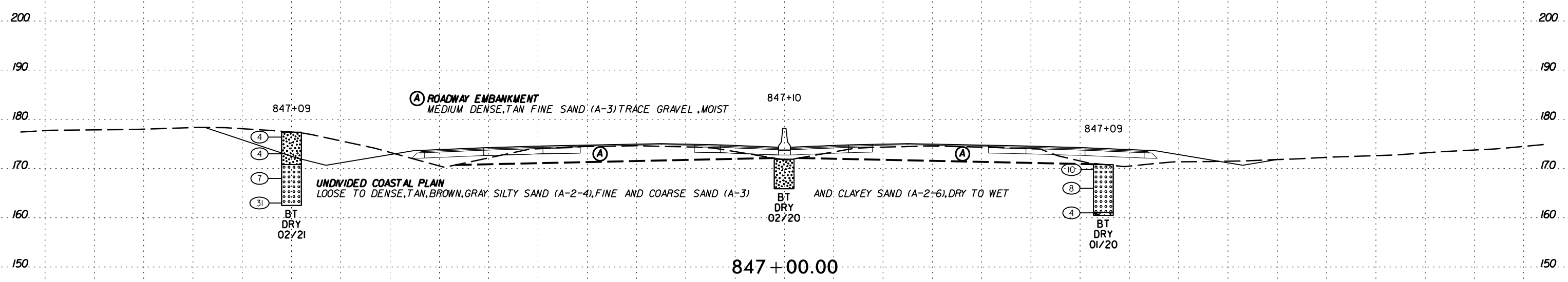
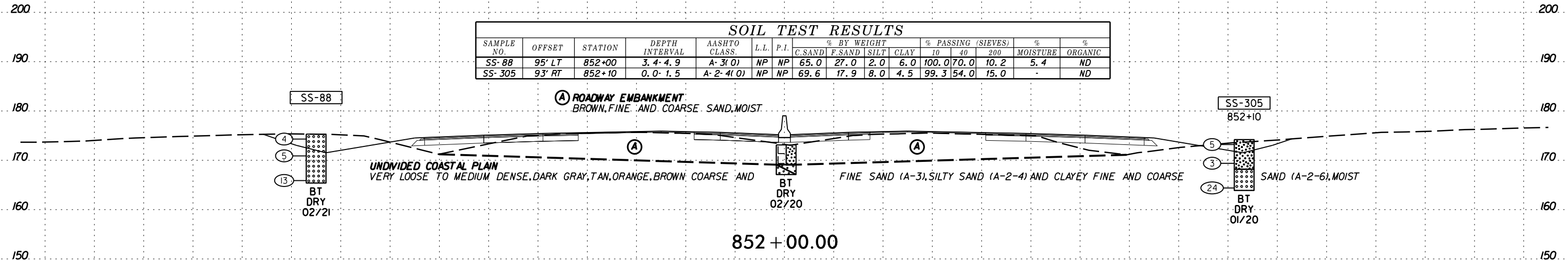
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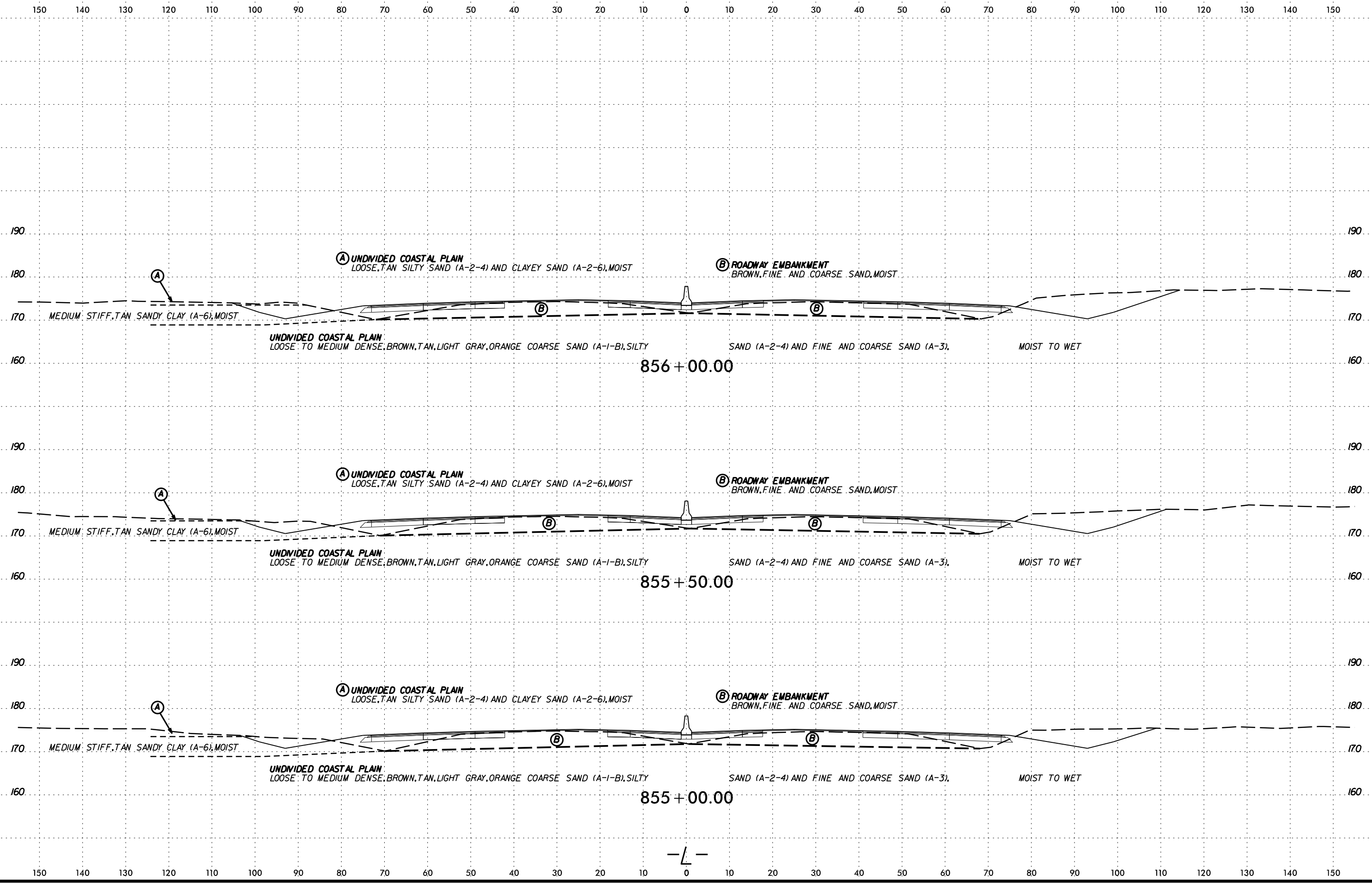


SOIL TEST RESULTS

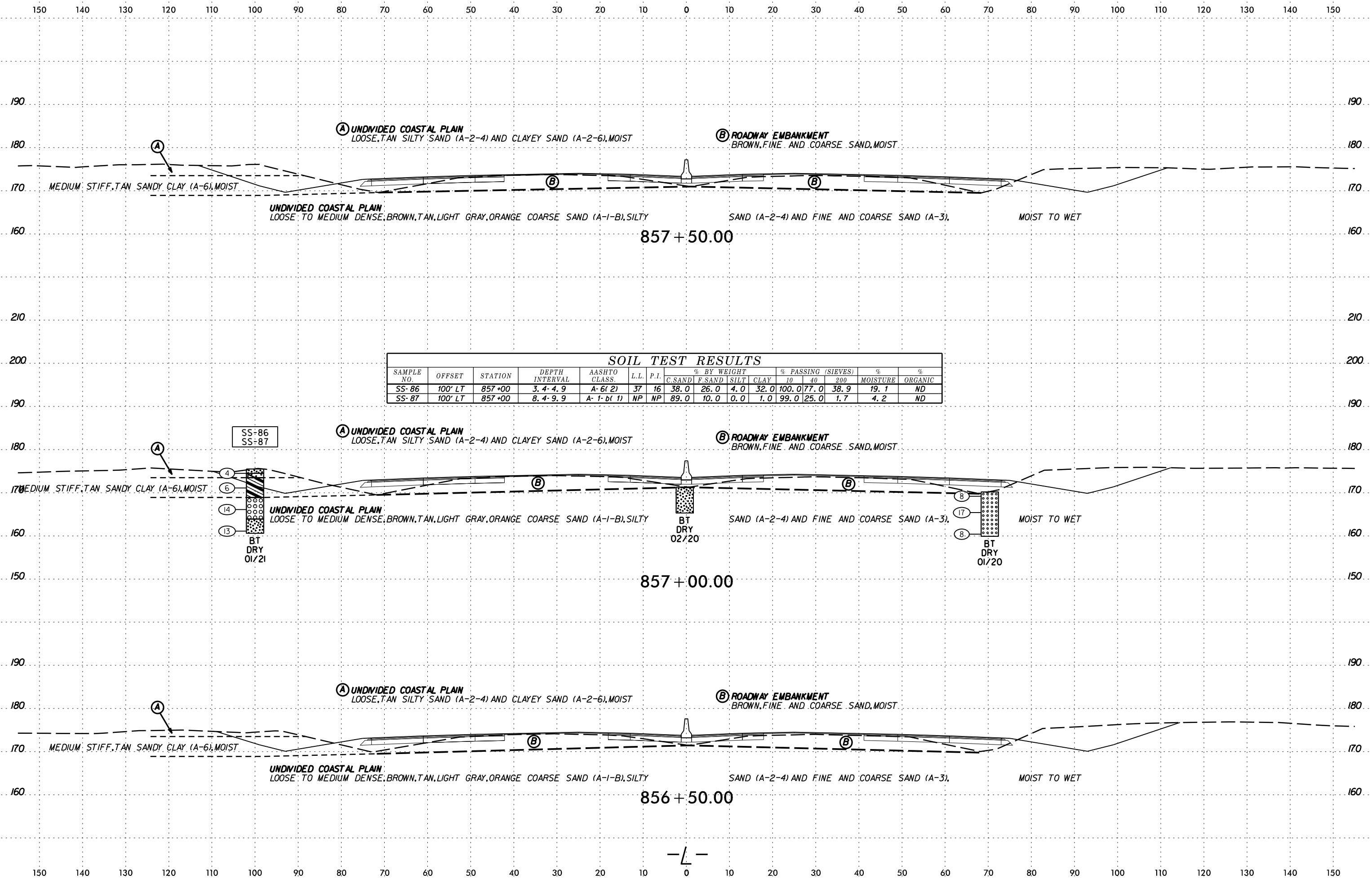
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-88	95' LT	852+00	3.4-4.9	A-3(O)	NP	NP	65.0	27.0	2.0	6.0	100.0	70.0	10.2	5.4	ND
SS-305	93' RT	852+10	0.0-1.5	A-2-4(O)	NP	NP	69.6	17.9	8.0	4.5	99.3	54.0	15.0	-	ND



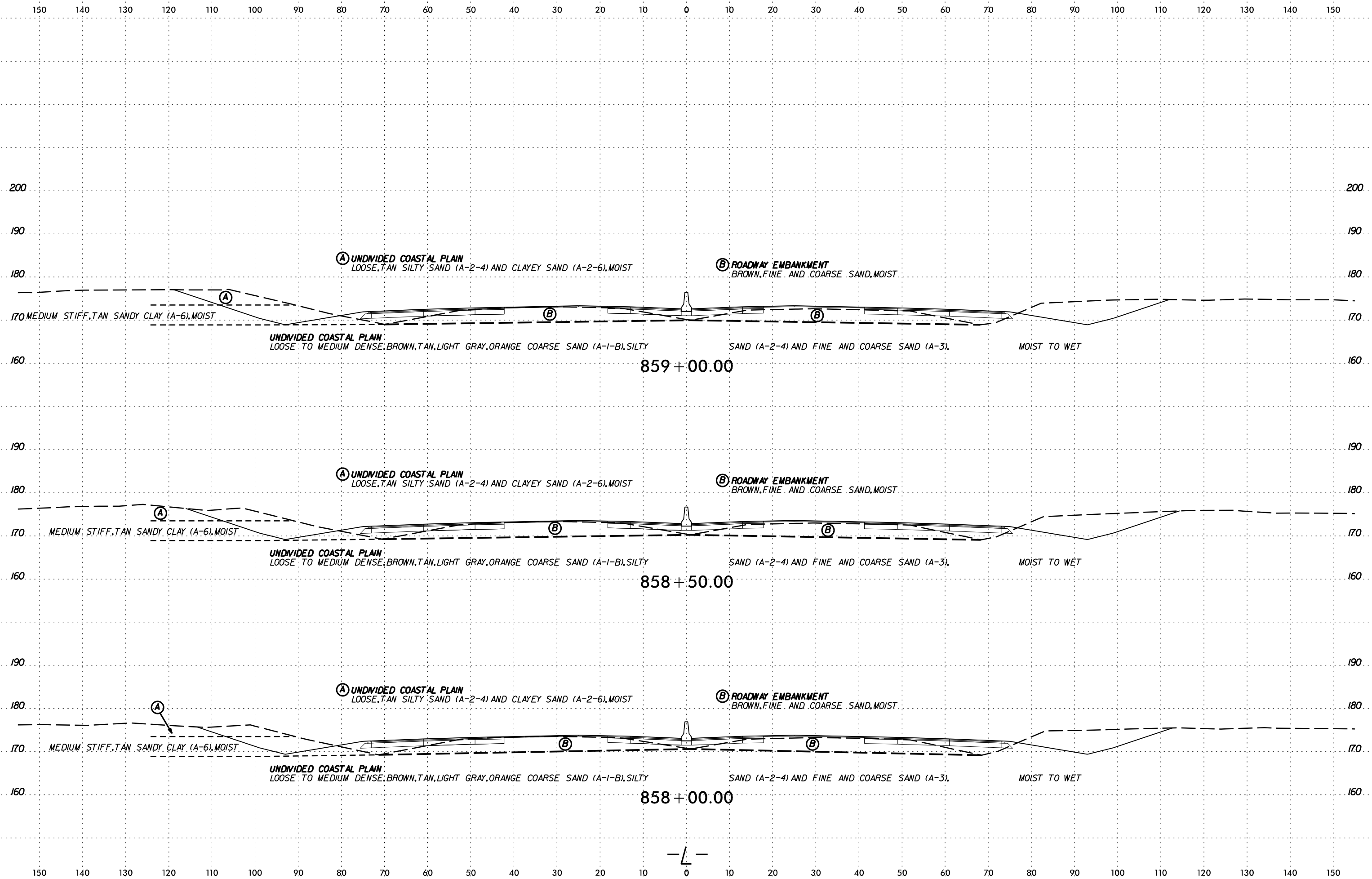
SCHEMATIC DESIGN
 CONSULTING
 INC.
 1000
 UNIVERSITY
 DRIVE
 SUITE 100
 FORT WORTH, TX 76104
 (817) 335-1100
 WWW.SCHEMATICDESIGN.COM



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



DATE: 6/23/16
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
PROJECT: I-5987B

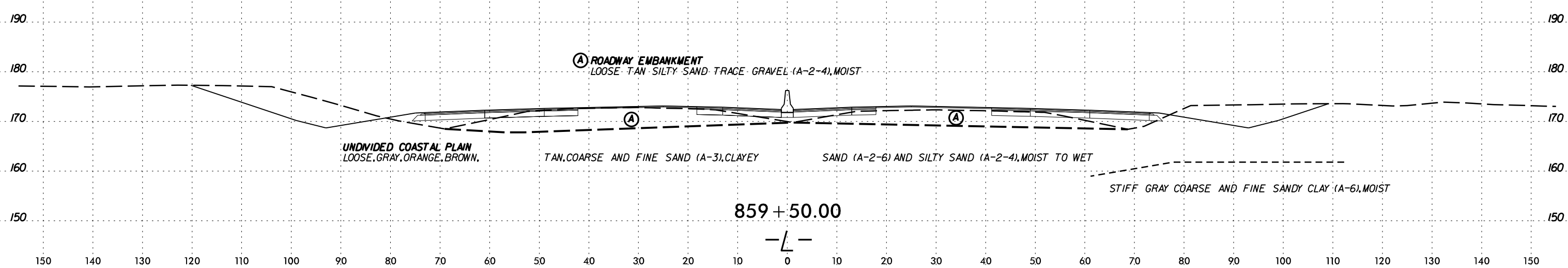
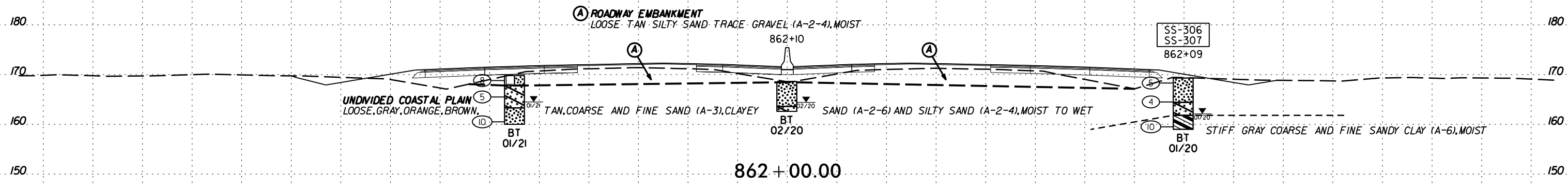


DATE: 6/23/16
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BY: [Signature]

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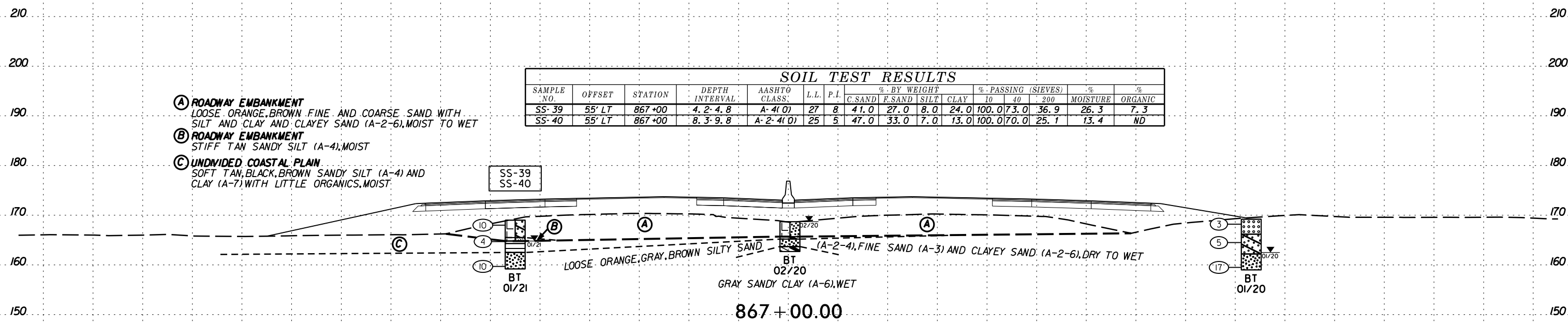
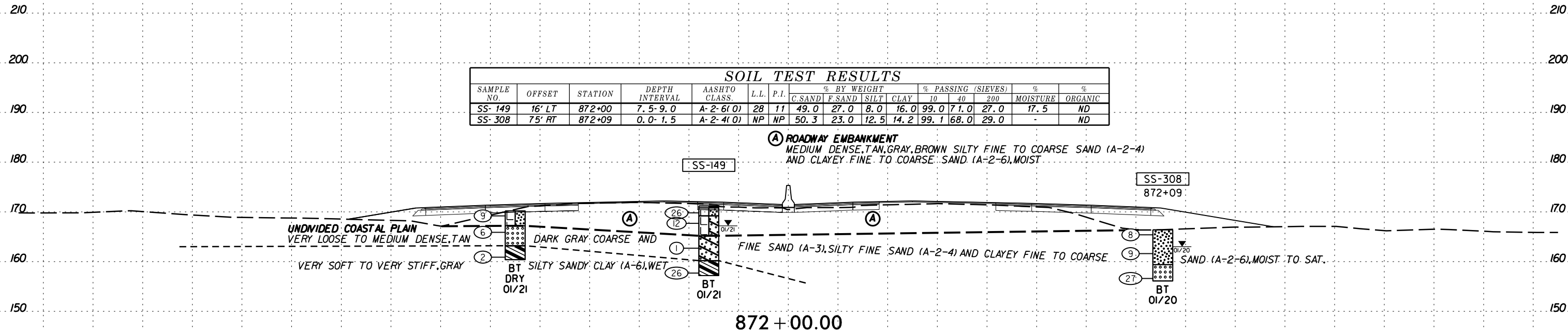
210 200 190 180 170 160 150

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-306	80' RT	862+09	0.0- 1.5	A-2-4(1)	NP	NP	71.5	16.9	6.1	5.5	99.9	56.0	13.0	-	ND
SS-307	80' RT	862+09	8.8- 10.3	A-6(2)	32	17	40.4	25.4	11.2	23.0	99.5	73.0	38.0	-	ND



SCHEMATIC CROSS SECTION
FOR
ROADWAY
CONSTRUCTION
DATE
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



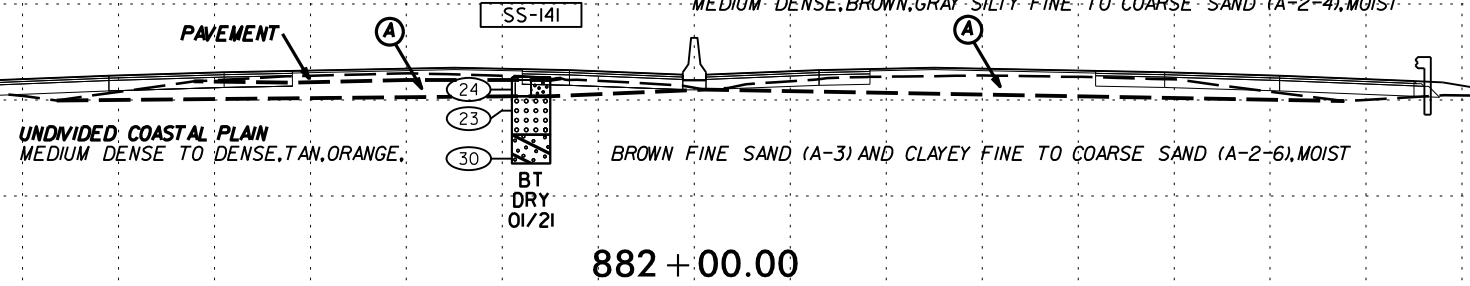
6/23/16

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

200 190 180 170 160 150 200 190 180 170 160 150

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-141	17' LT	882+00	0.3-1.8	A-2-4(0)	NP	NP	64.0	22.0	6.0	8.0	100.0	61.0	15.8	9.5	ND

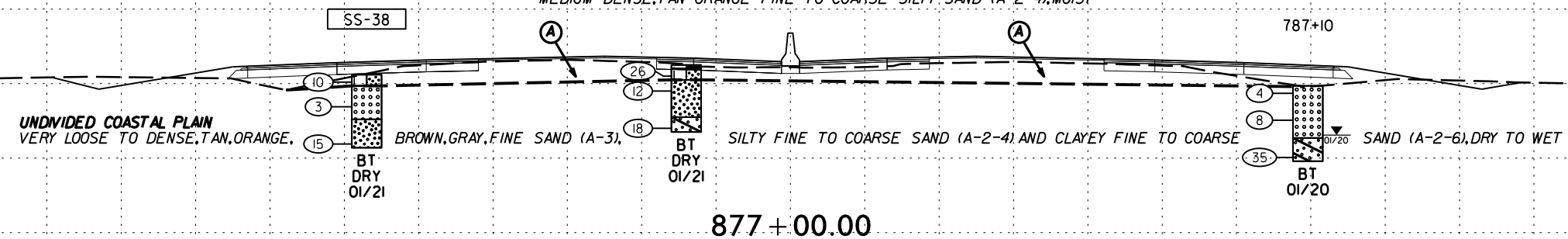
(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, BROWN, GRAY SILTY FINE TO COARSE SAND (A-2-4), MOIST



882 + 00.00

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-38	57' LT	877+10	0.0-1.5	A-2-4(0)	NP	NP	61.0	21.0	4.0	14.0	97.0	57.0	19.3	7.6	ND

(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN ORANGE FINE TO COARSE SILTY SAND (A-2-4), MOIST

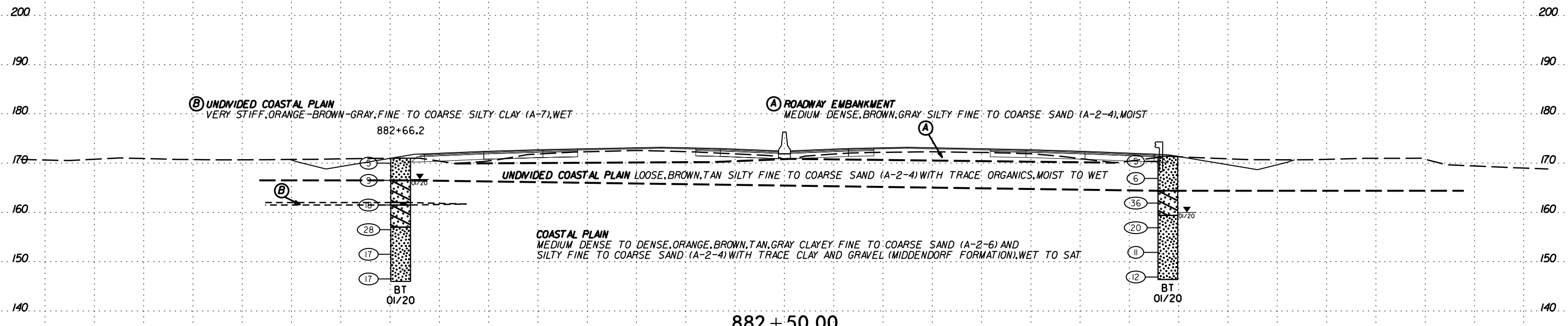


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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

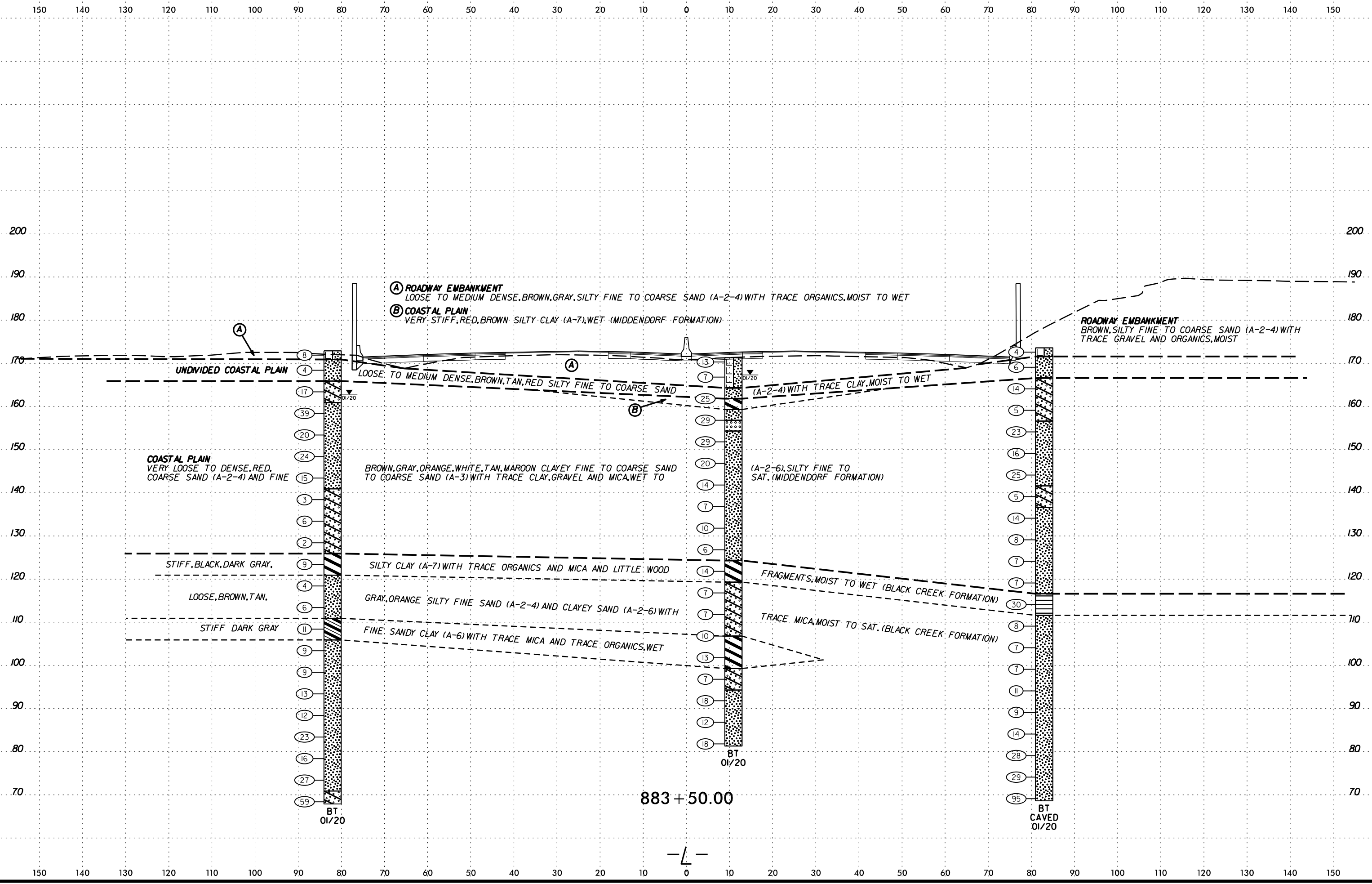
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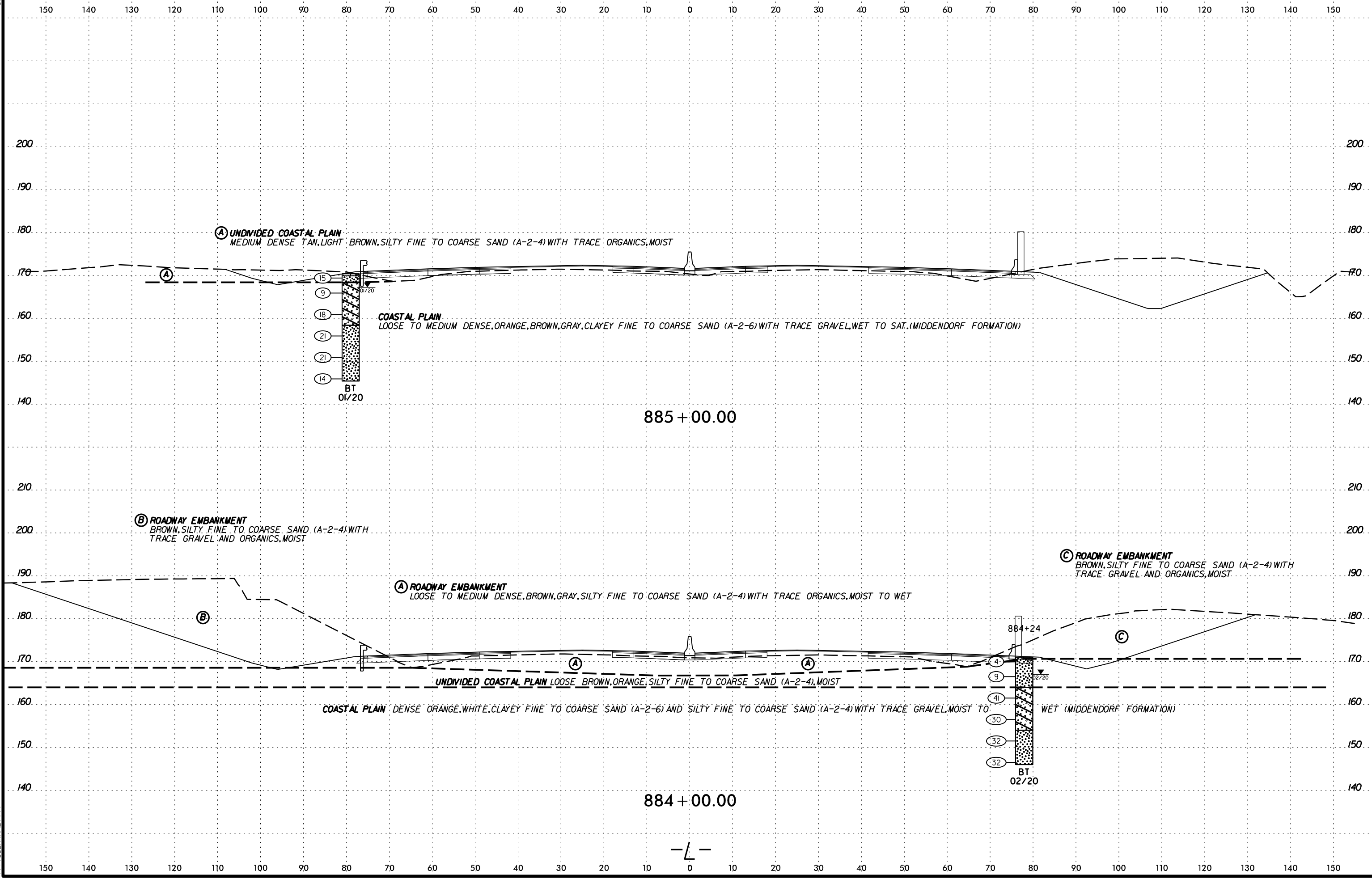
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DATE: 6/23/16
 TIME: 10:00 AM
 DRAWN BY: J. BERRY
 CHECKED BY: J. BERRY
 SCALE: AS SHOWN

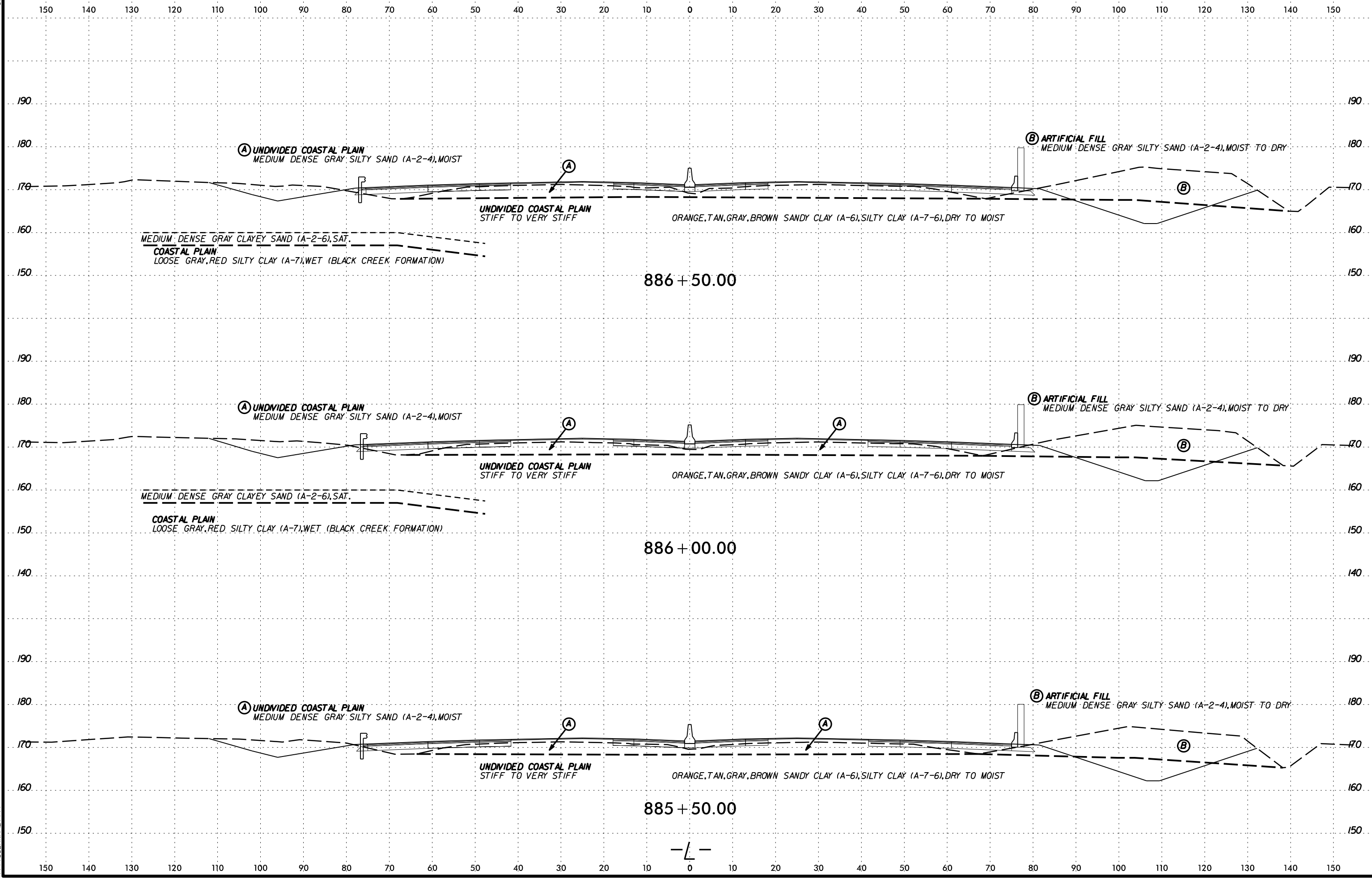


SCHEMATIC CROSS SECTION



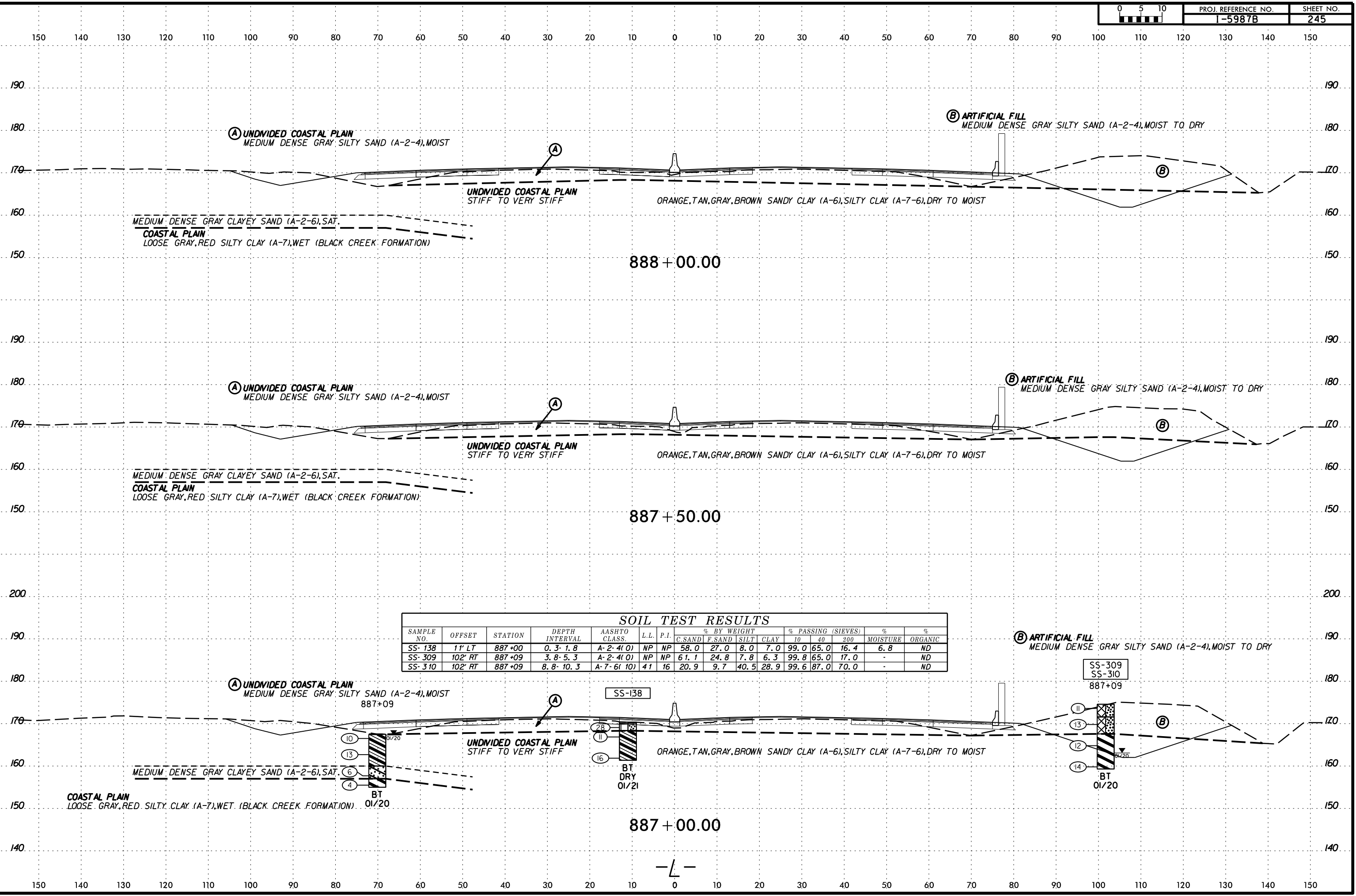
DATE: 6/23/16
SCALE: AS SHOWN
PROJECT: I-5987B
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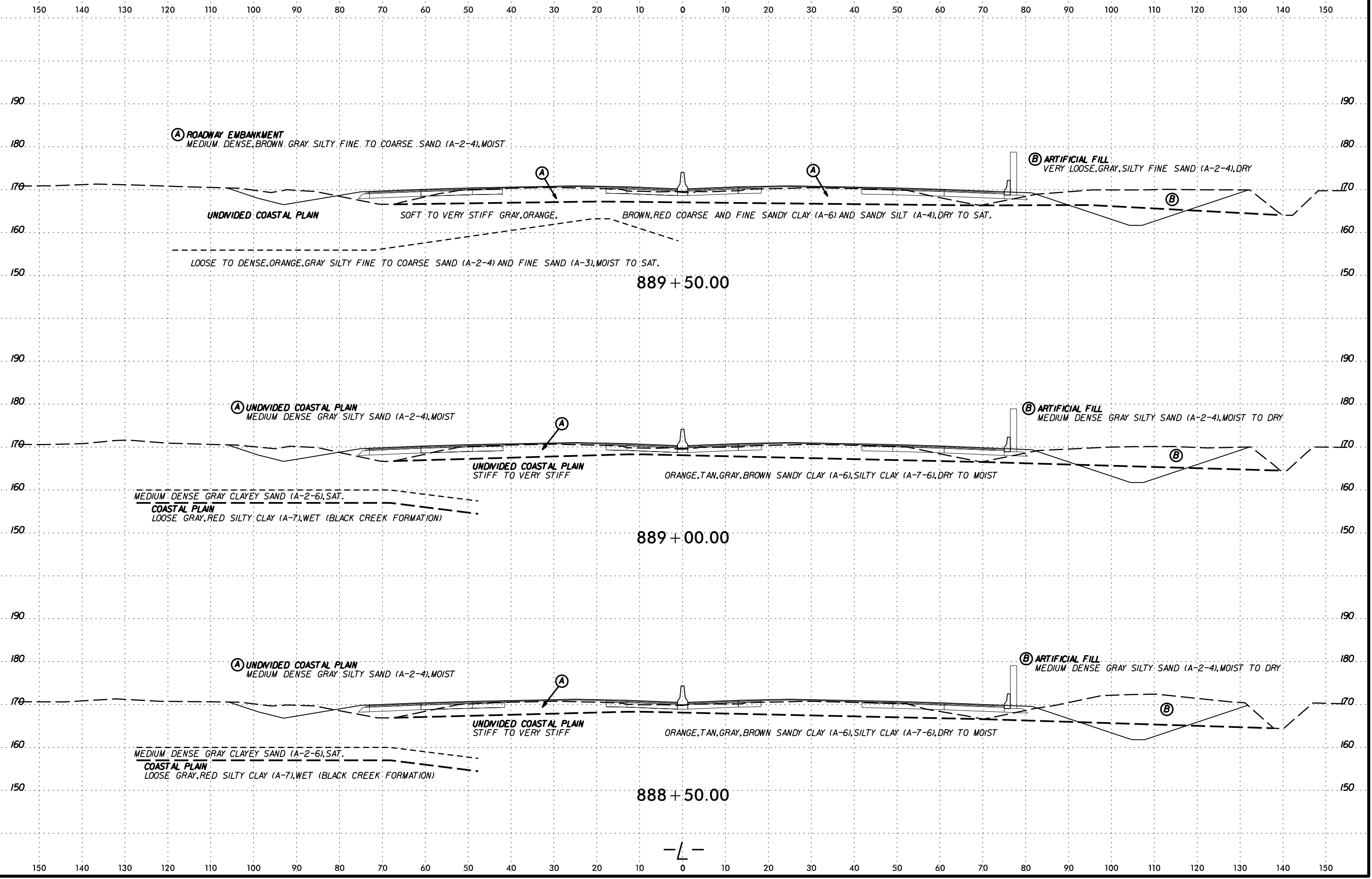
SCHEMATIC CROSS SECTION
DATE: 6/23/16
BY: J. BARRANE

6/23/16



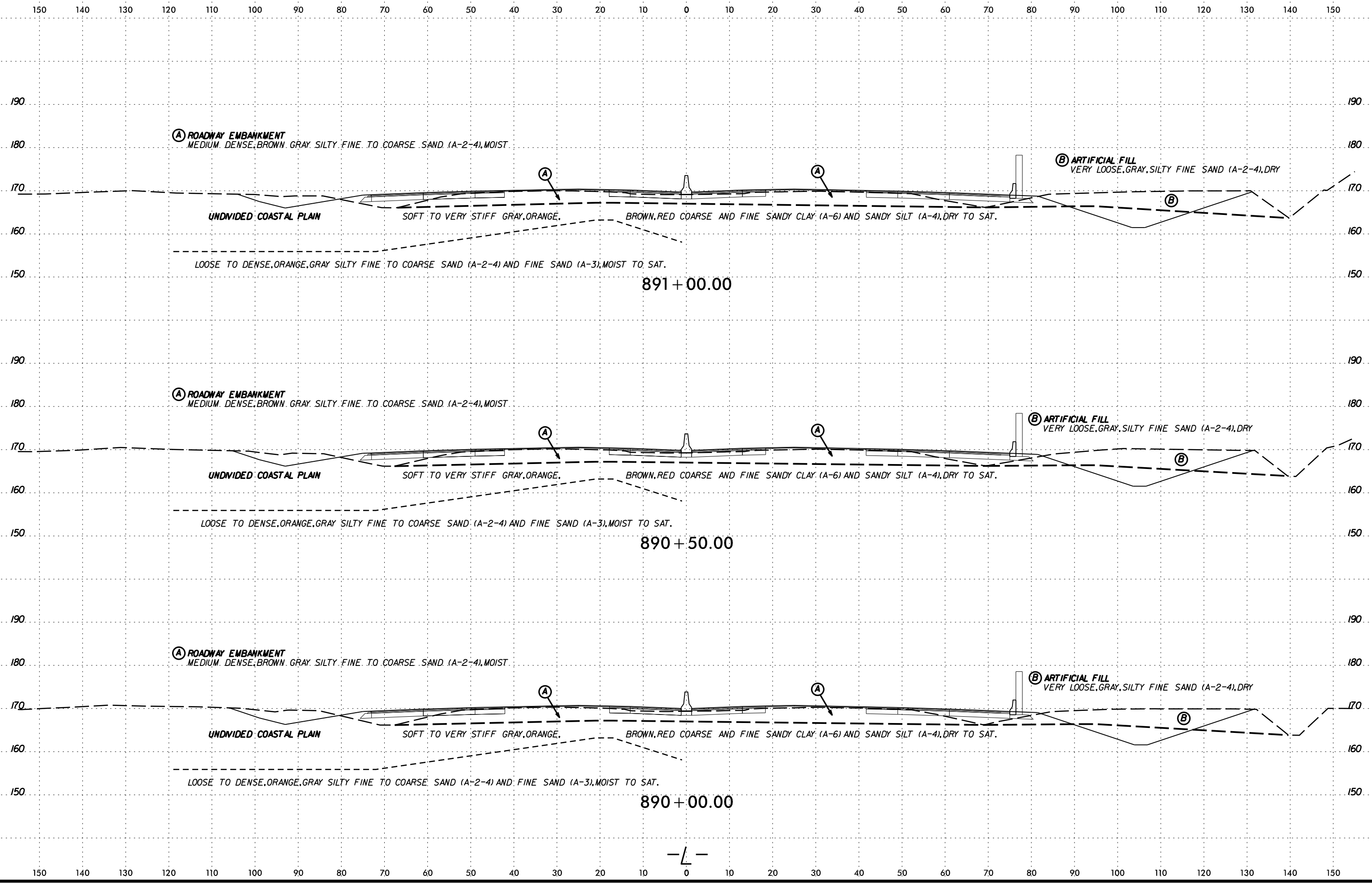
SOIL TEST RESULTS

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-138	11' LT	887+00	0.3- 1.8	A-2-4(0)	NP	NP	58.0	27.0	8.0	7.0	99.0	65.0	16.4	6.8	ND
SS-309	102' RT	887+09	3.8- 5.3	A-2-4(0)	NP	NP	61.1	24.8	7.8	6.3	99.8	65.0	17.0	-	ND
SS-310	102' RT	887+09	8.8- 10.3	A-7-6(10)	41	16	20.9	9.7	40.5	28.9	99.6	87.0	70.0	-	ND



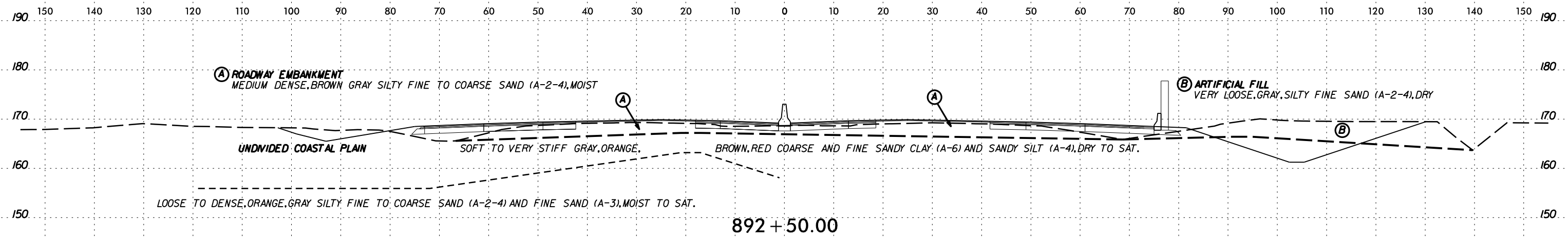
SCHEMATIC CROSS SECTION

6/23/16

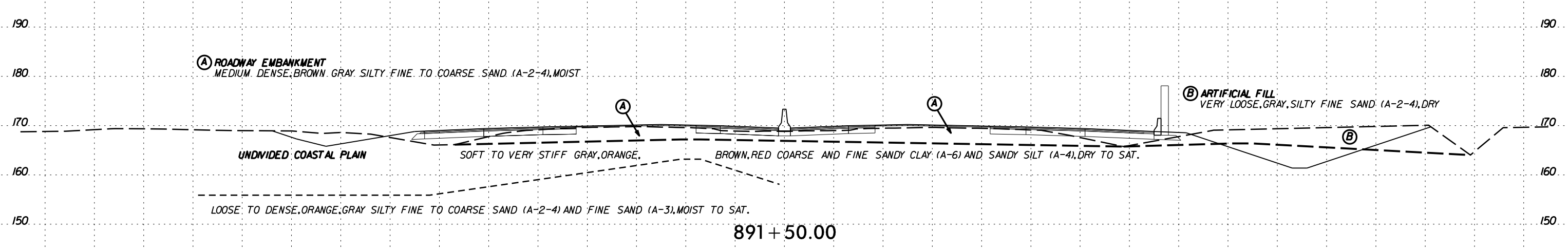
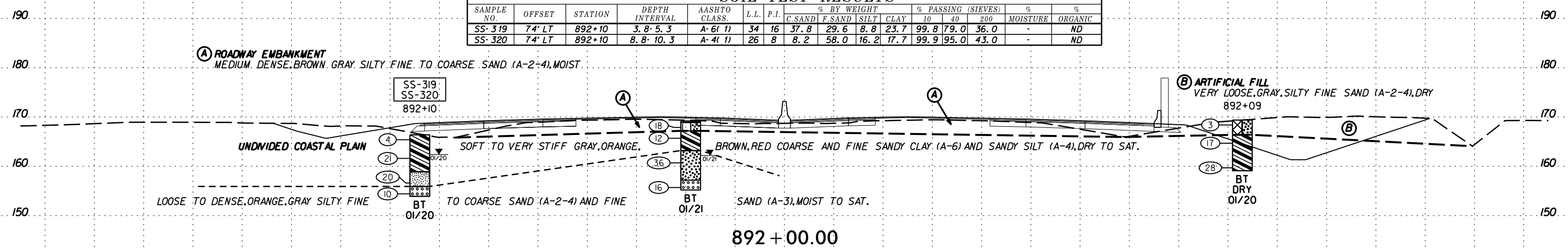


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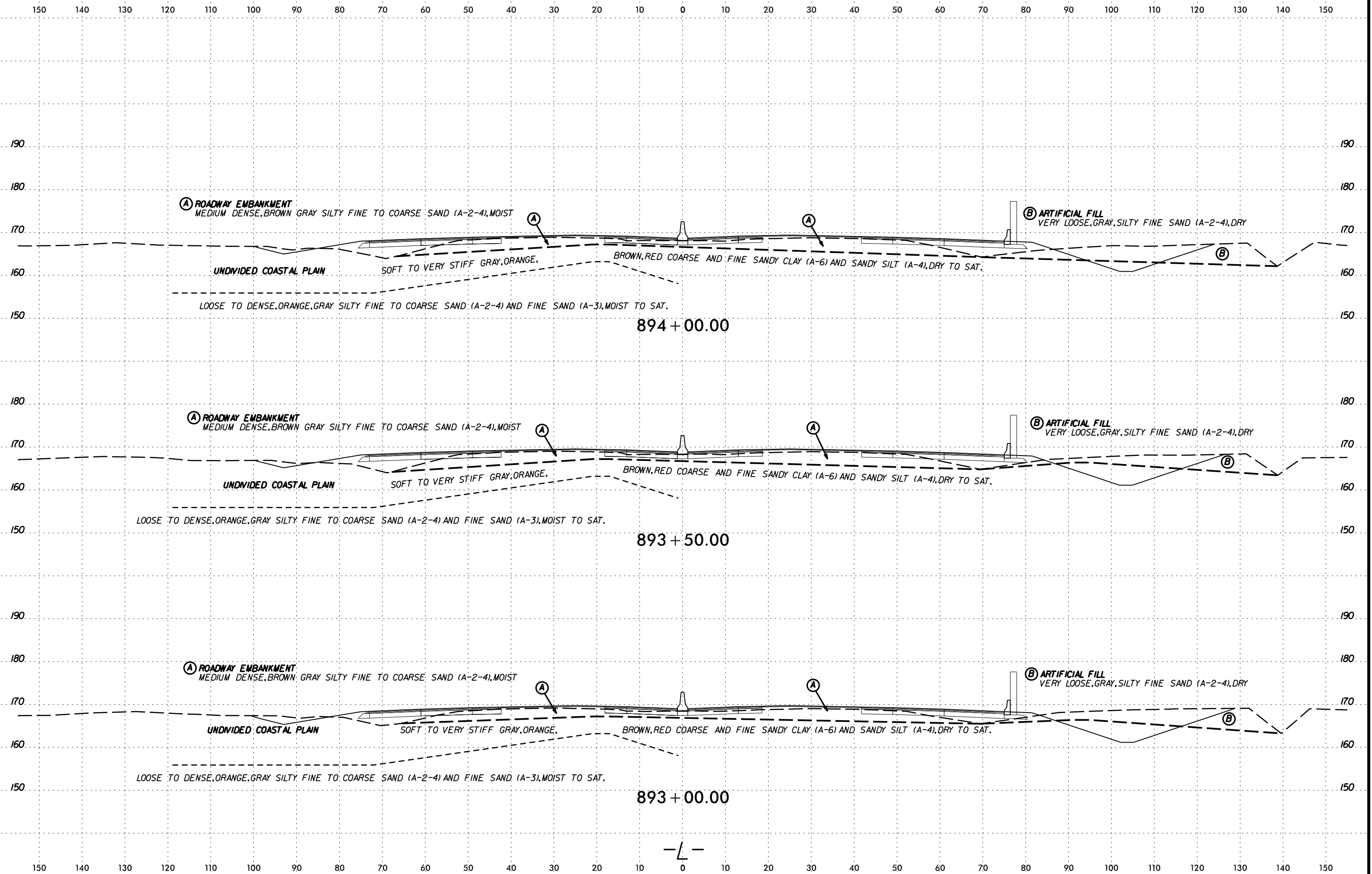
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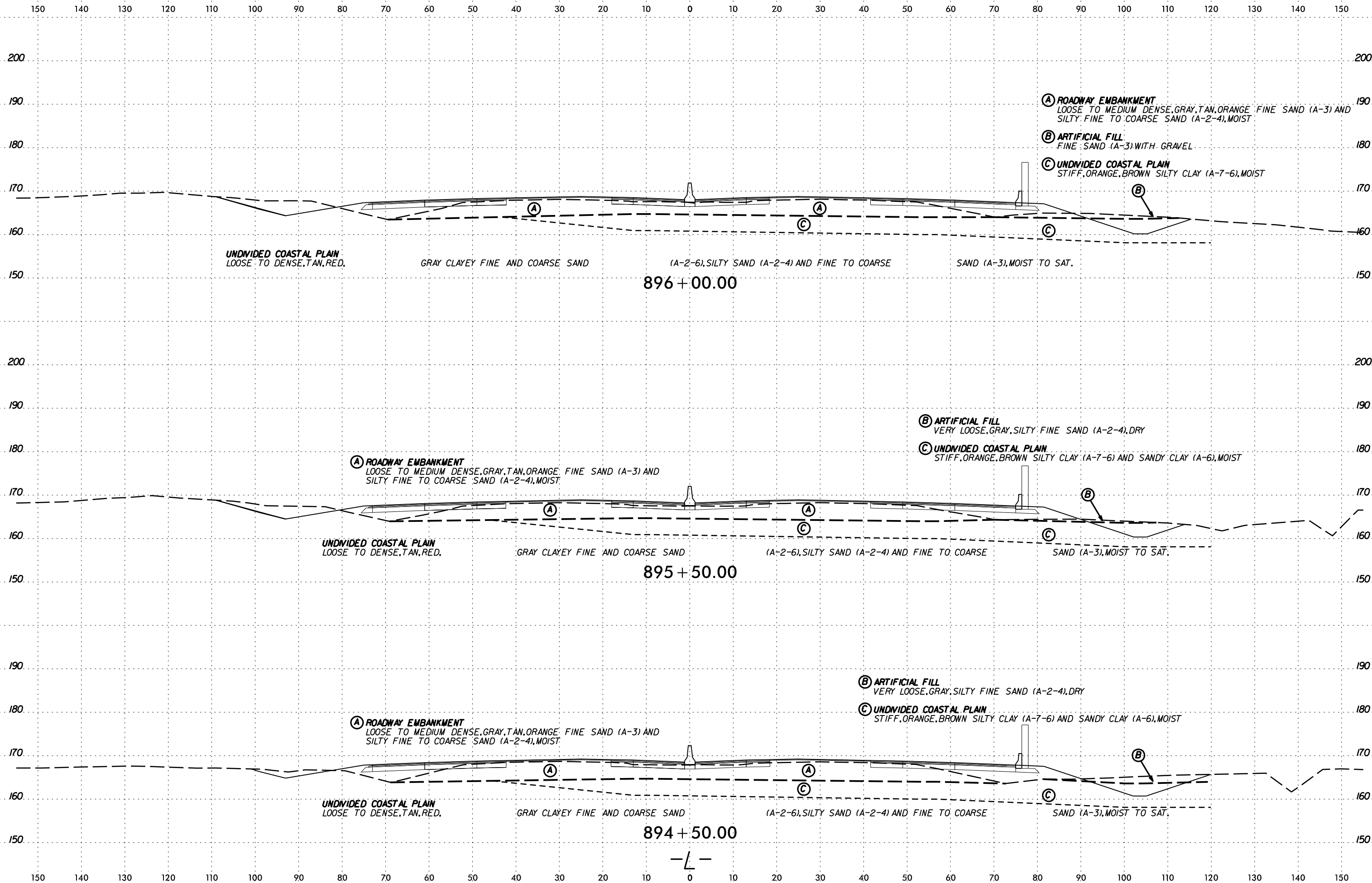


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-319	74' LT	892+10	3.8-5.3	A-6(1)	34	16	37.8	29.6	8.8	23.7	99.8	79.0	36.0	-	ND
SS-320	74' LT	892+10	8.8-10.3	A-4(1)	26	8	8.2	58.0	16.2	17.7	99.9	95.0	43.0	-	ND



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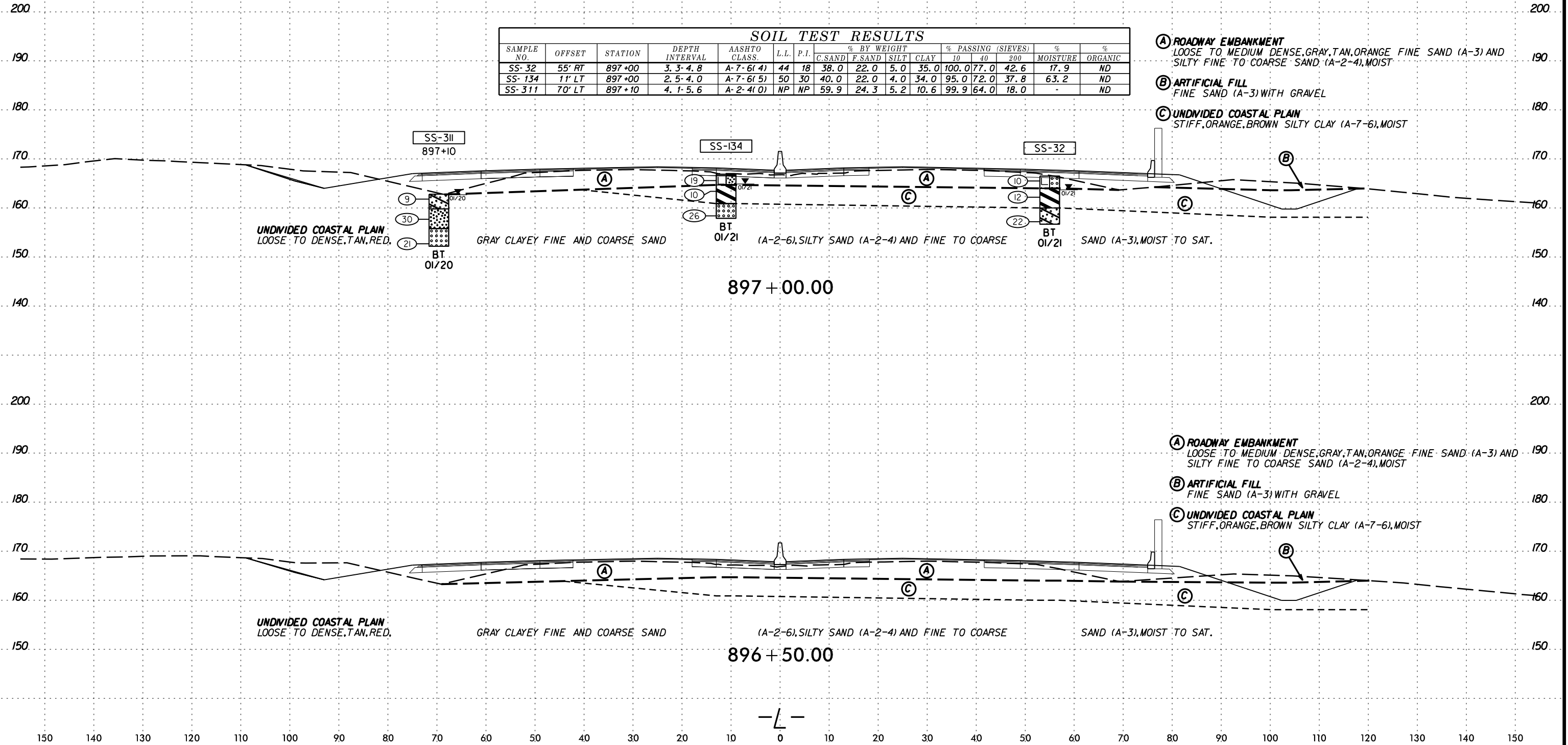


SECTION 894+50.00 TO 896+00.00



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



SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-32	55' RT	897+00	3.3-4.8	A-7-6(4)	44	18	38.0	22.0	5.0	35.0	100.0	77.0	42.6	17.9	ND
SS-134	11' LT	897+00	2.5-4.0	A-7-6(5)	50	30	40.0	22.0	4.0	34.0	95.0	72.0	37.8	63.2	ND
SS-311	70' LT	897+10	4.1-5.6	A-2-4(0)	NP	NP	59.9	24.3	5.2	10.6	99.9	64.0	18.0	-	ND

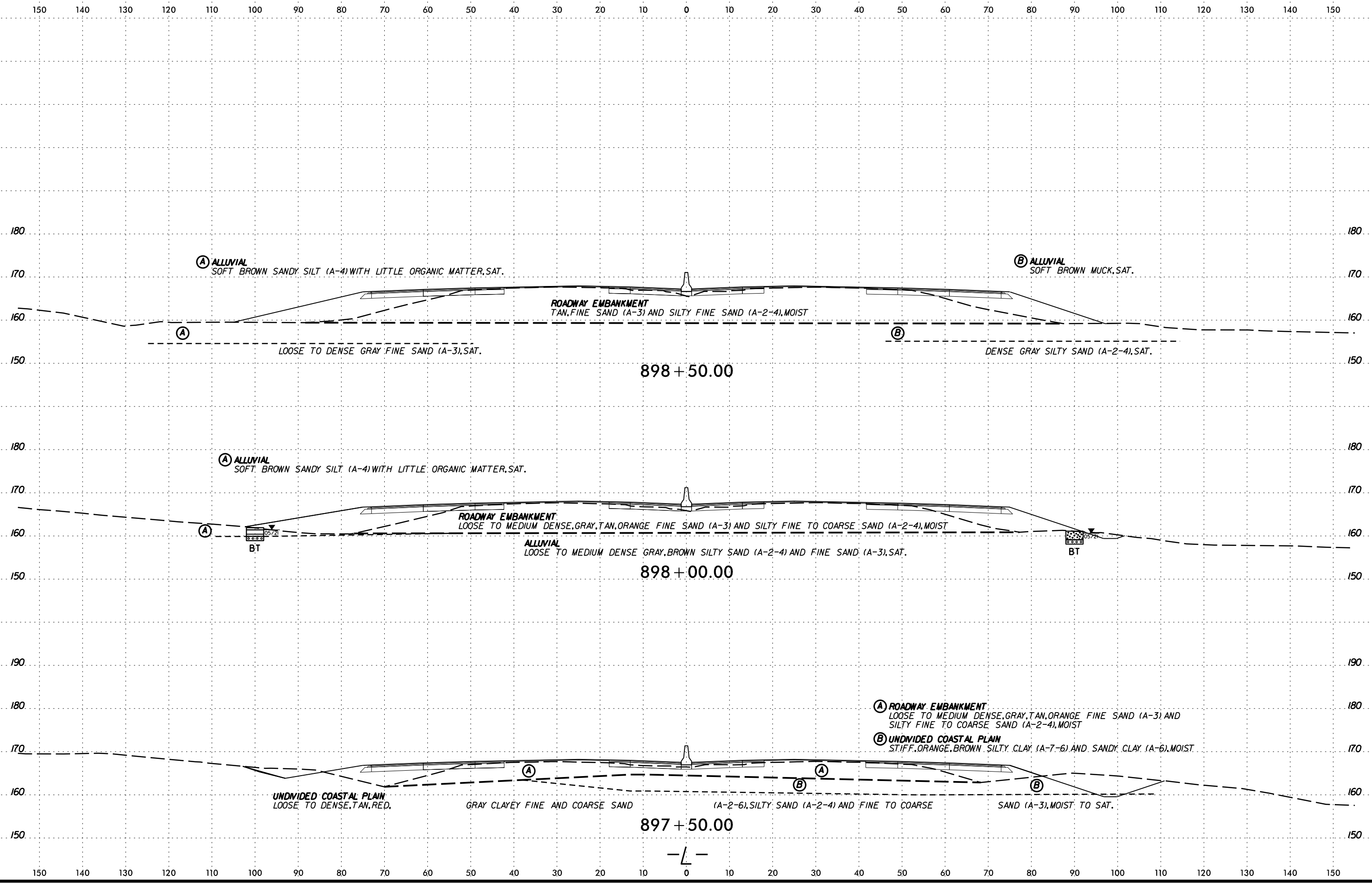
- (A) ROADWAY EMBANKMENT**
LOOSE TO MEDIUM DENSE, GRAY, TAN, ORANGE FINE SAND (A-3) AND SILTY FINE TO COARSE SAND (A-2-4), MOIST
- (B) ARTIFICIAL FILL**
FINE SAND (A-3) WITH GRAVEL
- (C) UNDIVIDED COASTAL PLAIN**
STIFF, ORANGE, BROWN SILTY CLAY (A-7-6), MOIST

897 + 00.00

896 + 50.00

-L-

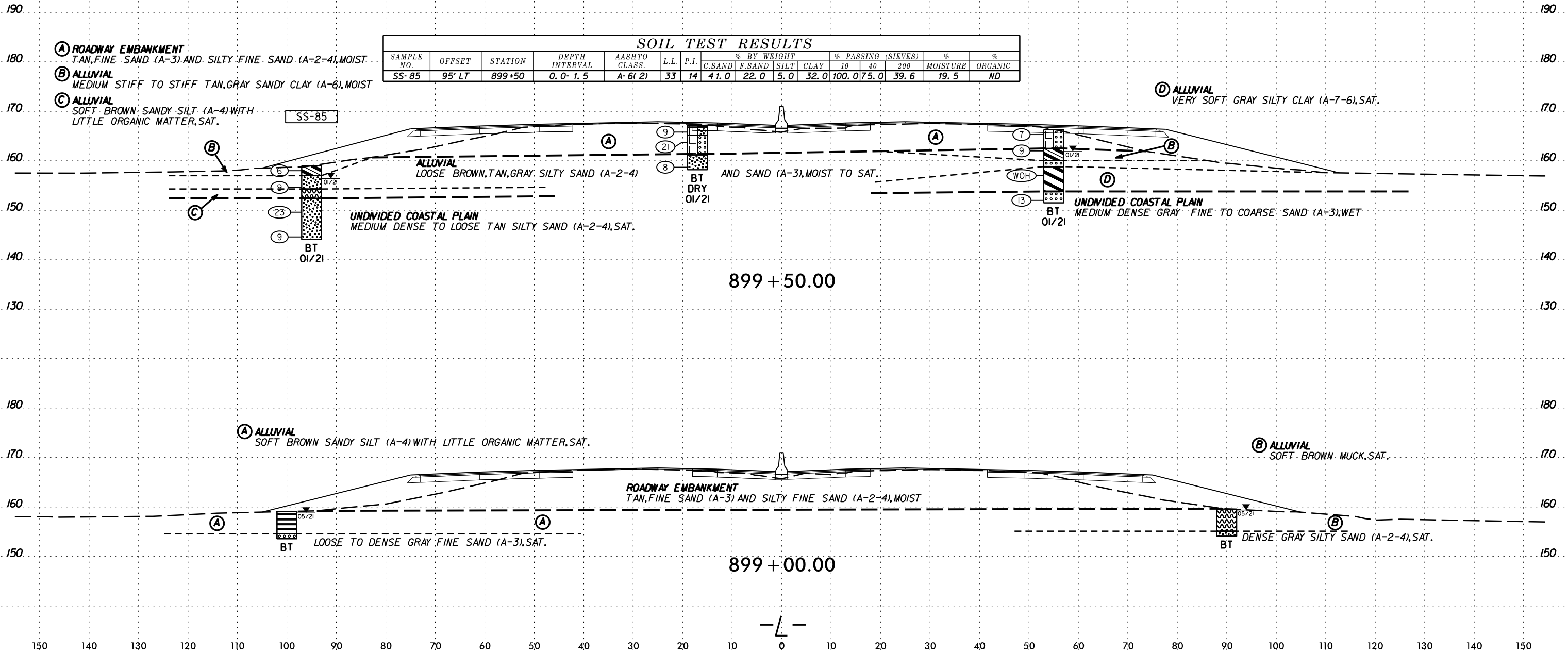
6/23/16



SECTION CUTS FROM SURVEY DATA

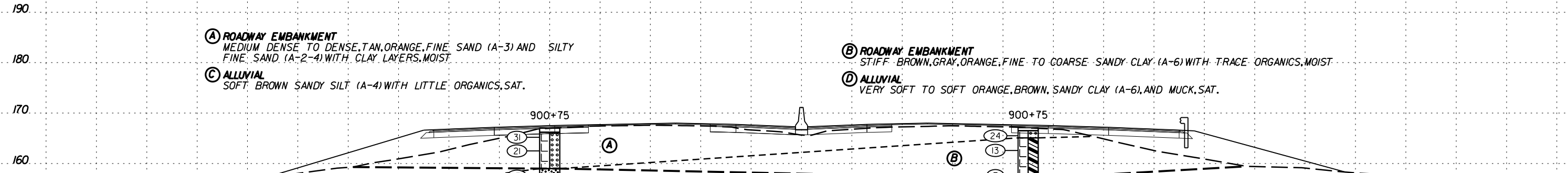
6/23/16

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



COUNTY OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 SAN FRANCISCO OFFICE
 1001 MARKET STREET
 SAN FRANCISCO, CALIFORNIA 94102

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
 MEDIUM DENSE TO DENSE, TAN, ORANGE, FINE SAND (A-3) AND SILTY FINE SAND (A-2-4) WITH CLAY LAYERS, MOIST.

(C) ALLUVIAL
 SOFT, BROWN SANDY SILT (A-4) WITH LITTLE ORGANICS, SAT.

(B) ROADWAY EMBANKMENT
 STIFF, BROWN, GRAY, ORANGE, FINE TO COARSE SANDY CLAY (A-6) WITH TRACE ORGANICS, MOIST.

(D) ALLUVIAL
 VERY SOFT TO SOFT ORANGE, BROWN, SANDY CLAY (A-6), AND MUCK, SAT.

900+75

900+75

900+50.00

BT FIAD 09/21

BT FIAD 10/21

ALLUVIAL MEDIUM DENSE TO VERY DENSE, RED, GRAY SILTY SAND (A-2-4), FINE SAND (A-3) AND COARSE LOOSE, WHITE, COARSE SAND (A-3), WET

STIFF, TAN, SILTY CLAY (A-7), WET

COASTAL PLAIN MEDIUM STIFF, TAN, GRAY, SILTY CLAY (A-7), WITH TRACE WOOD, WET (BLACK CREEK FORMATION)

SAND (A-1-B), WET TO SAT.

190

180

170

160

150

140

130

200

190

180

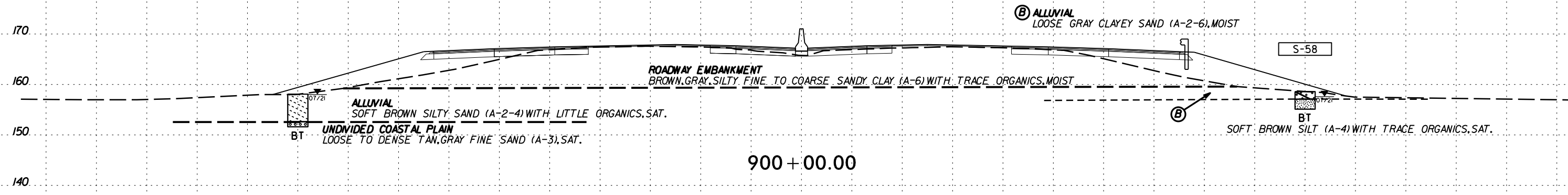
170

160

150

140

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-36	100' LT	900+00	0.0-5.5	A-2-4	NP	NP	44	25	24	7	99	73	34.2	161.2	3.9
S-58	100' RT	900+00	1.5-3.5	A-4	NP	NP	33	34	29	4	99	82	36.6	140.9	4.6



(B) ALLUVIAL
 LOOSE GRAY CLAYEY SAND (A-2-6), MOIST.

(B) ROADWAY EMBANKMENT
 BROWN, GRAY, SILTY, FINE TO COARSE SANDY CLAY (A-6) WITH TRACE ORGANICS, MOIST.

(B) ALLUVIAL
 SOFT BROWN SILTY SAND (A-2-4) WITH LITTLE ORGANICS, SAT.

UNDIVIDED COASTAL PLAIN
 LOOSE TO DENSE TAN, GRAY FINE SAND (A-3), SAT.

(B) ALLUVIAL
 SOFT BROWN SILT (A-4) WITH TRACE ORGANICS, SAT.

900+00.00

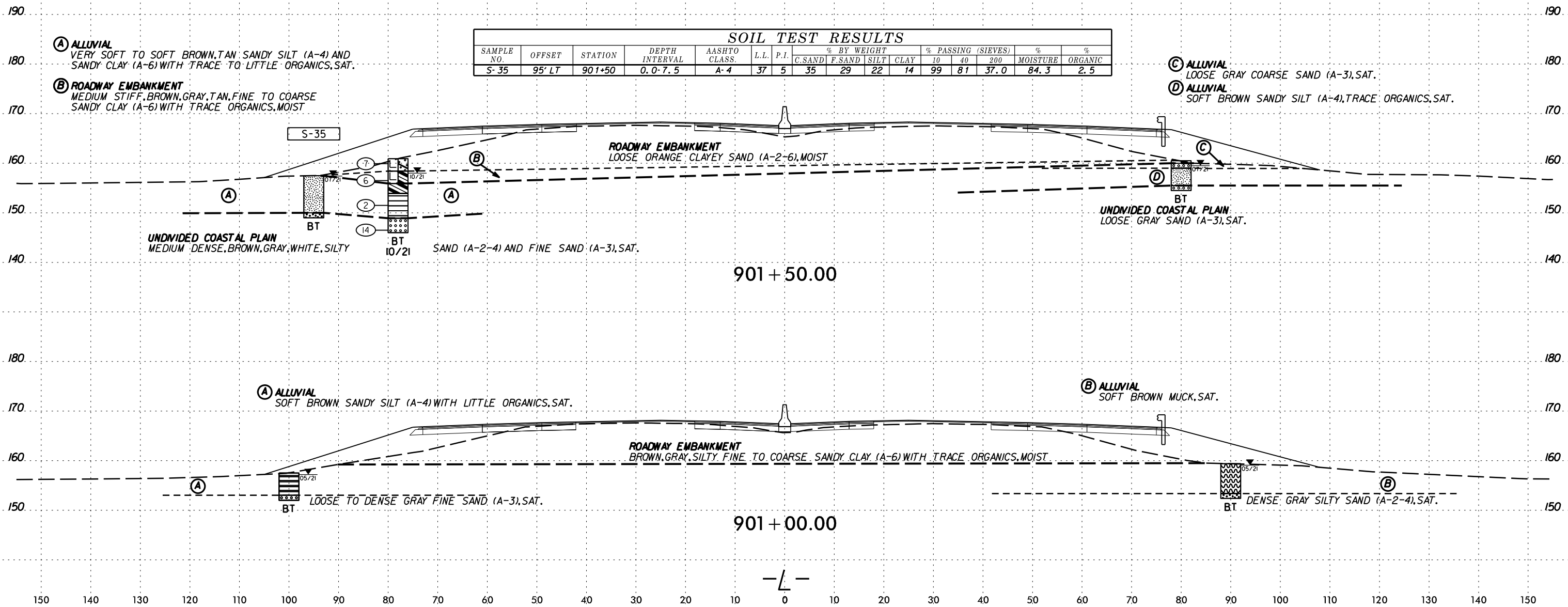
BT 07/21

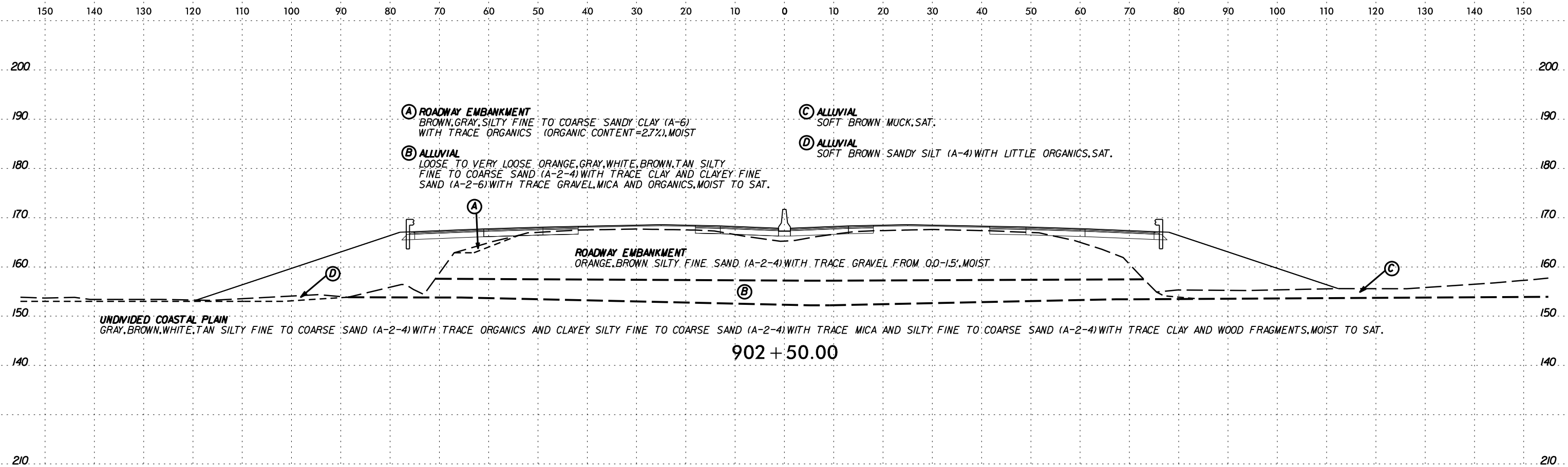
BT 07/21

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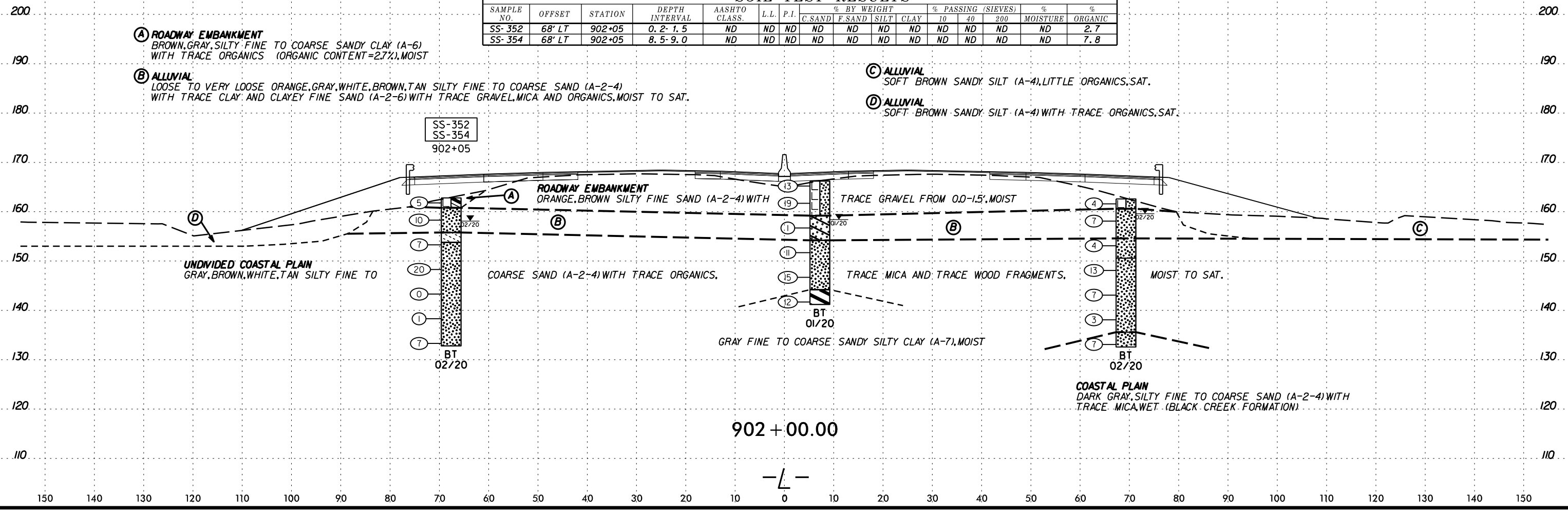
6/23/16
 SUTHERLAND
 CONSULTANTS
 INC.
 2000
 UNIVERSITY
 AVENUE
 SUITE 200
 DENVER, CO 80202
 (303) 751-1000
 www.sutherlandconsultants.com

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



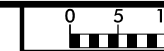


SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% ORGANIC	
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-352	68' LT	902+05	0.2- 1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7
SS-354	68' LT	902+05	8.5-9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8



SCALE: 1"=20'

6/23/16



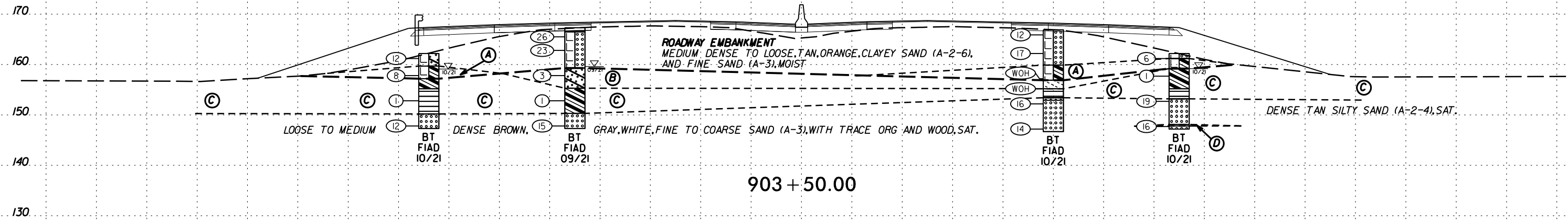
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(A) ROADWAY EMBANKMENT
 VERY SOFT TO STIFF, BROWN, GRAY, TAN, ORANGE, FINE TO COARSE SANDY CLAY (A-6) WITH TRACE ORGANICS, MOIST TO SAT.

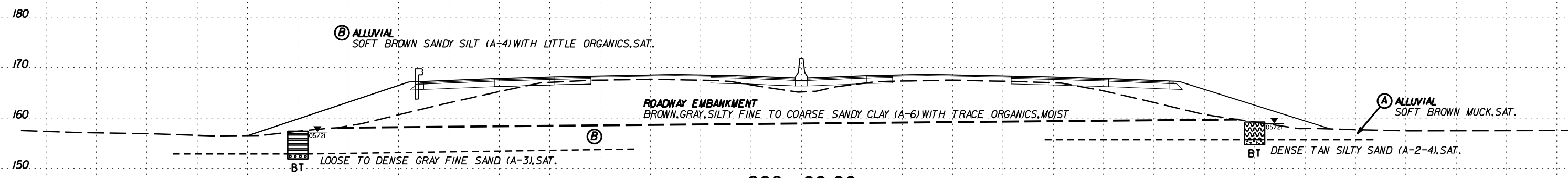
(B) ALLUVIAL
 VERY LOOSE BROWN, GRAY CLAYEY SAND (A-2-6) AND SILTY SAND (A-2-4) WITH TRACE ORG. AND WOOD, SAT.

(C) ALLUVIAL
 VERY SOFT TO SOFT BLACK, BROWN, ORANGE, GRAY, SANDY CLAY (A-6), SILTY CLAY (A-7), AND SANDY SILT (A-4) WITH LITTLE TO MODERATE ORGANICS AND WOOD, WET TO SAT.

(D) ALLUVIAL
 STIFF BROWN CLAY (A-7) WITH MODERATE ORGANICS, SAT.



903 + 50.00



903 + 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

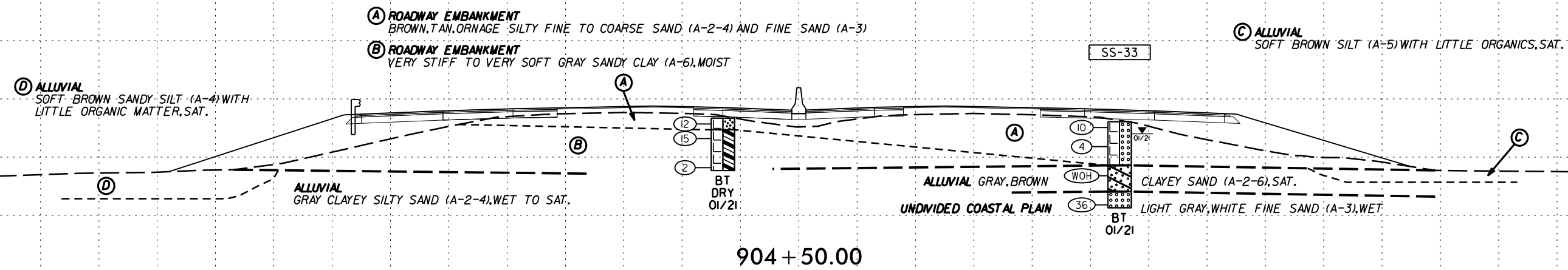
SCHEMATIC CROSS SECTION
 10' 20' 30' 40' 50' 60' 70' 80' 90' 100' 110' 120' 130' 140' 150'

-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

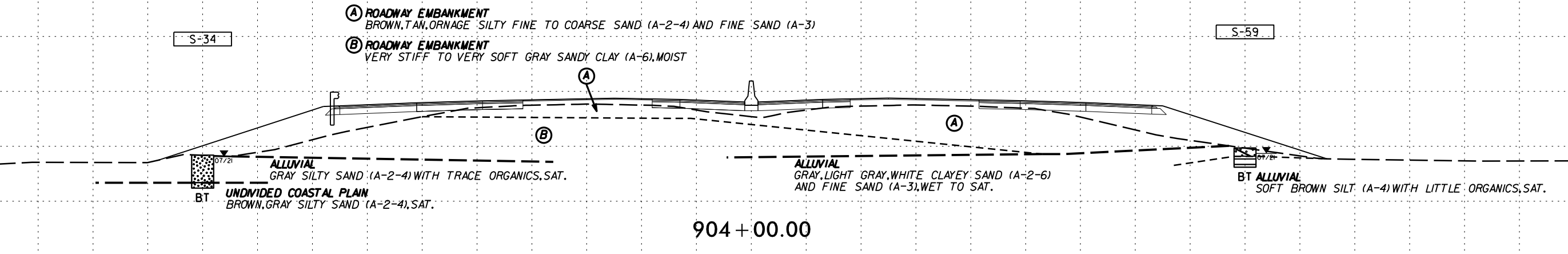
200 190 180 170 160 150 140 200 190 180 170 160 150 140

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-33	55' RT	904+50	8.3-9.8	A-2-6(1)	33	14	40.0	30.0	4.0	26.0	100.0	77.0	34.2	19.3	ND

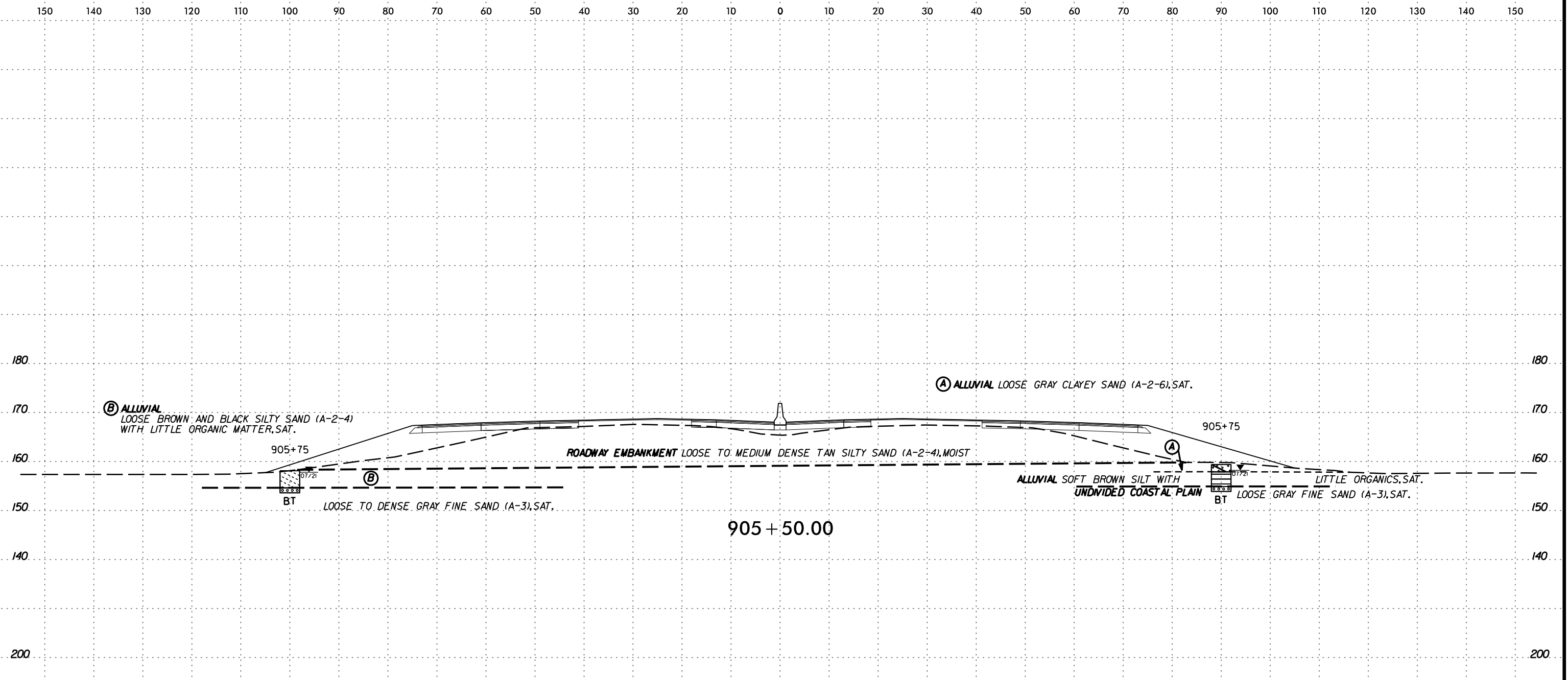


200 190 180 170 160 150 140 200 190 180 170 160 150 140

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-34	100' LT	904+00	0.0-5.0	A-2-4	NP	NP	40	35	20	5	99	83	28.3	86.9	2.4
S-59	90' RT	904+00	1.5-3.5	A-5	48	9	12	16	63	9	100	94	76.1	128.9	8.2



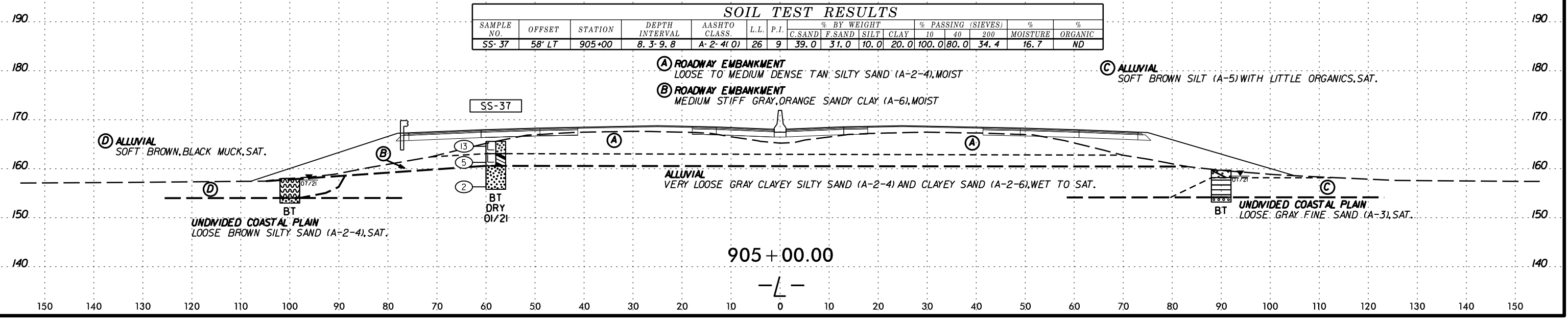
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



905 + 50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-37	58' LT	905+00	8.3-9.8	A-2-4(0)	26	9	39.0	31.0	10.0	20.0	100.0	80.0	34.4	16.7	ND

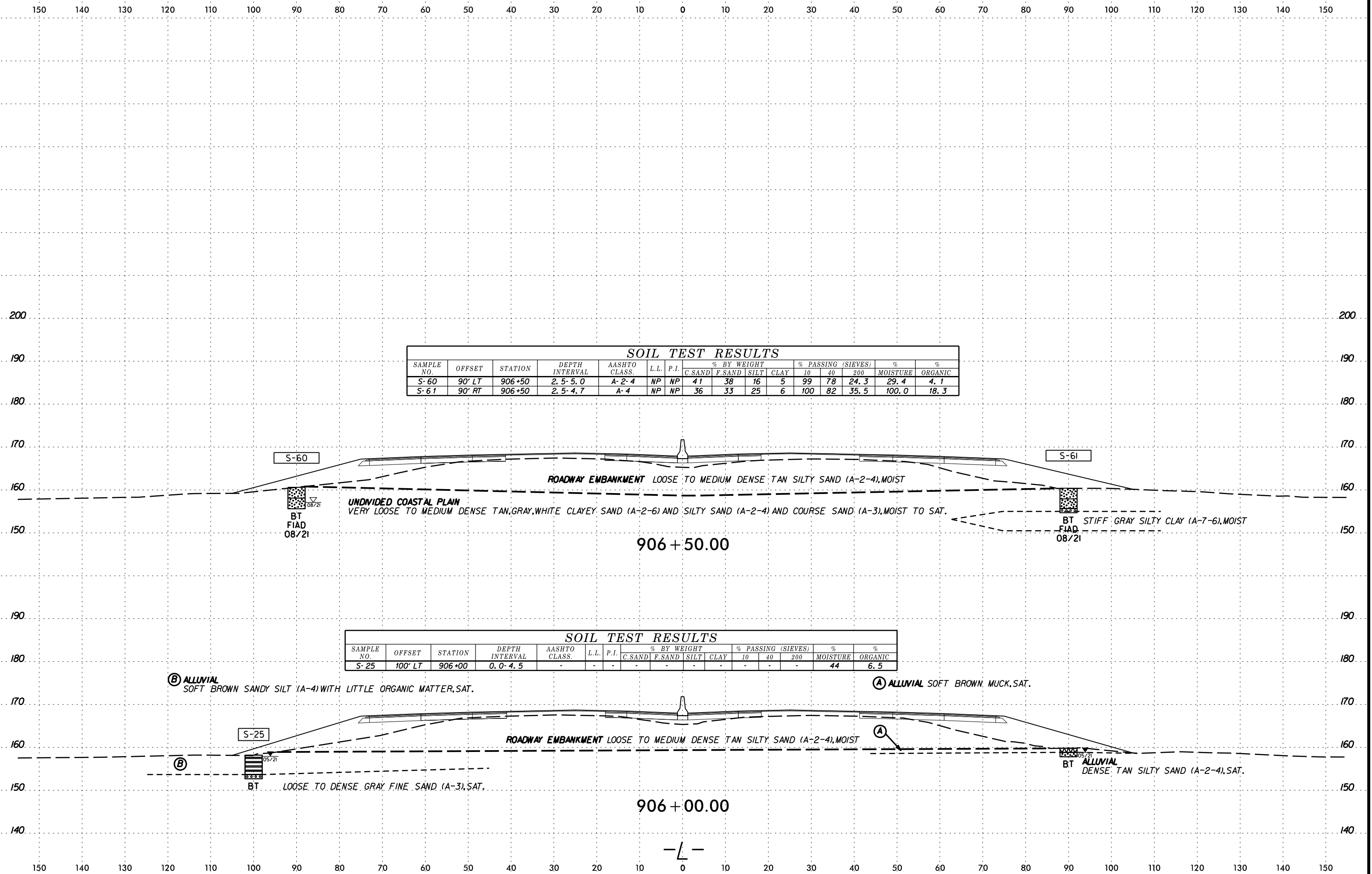


905 + 00.00

-L-

SCHEMATIC CROSS SECTION

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	MOISTURE	ORGANIC
S-60	90' LT	906+50	2.5-5.0	A-2-4	NP	NP	41	38	16	5	99	78	24.3	29.4	4.1
S-61	90' RT	906+50	2.5-4.7	A-4	NP	NP	36	33	25	6	100	82	35.5	100.0	18.3

SOIL TEST RESULTS

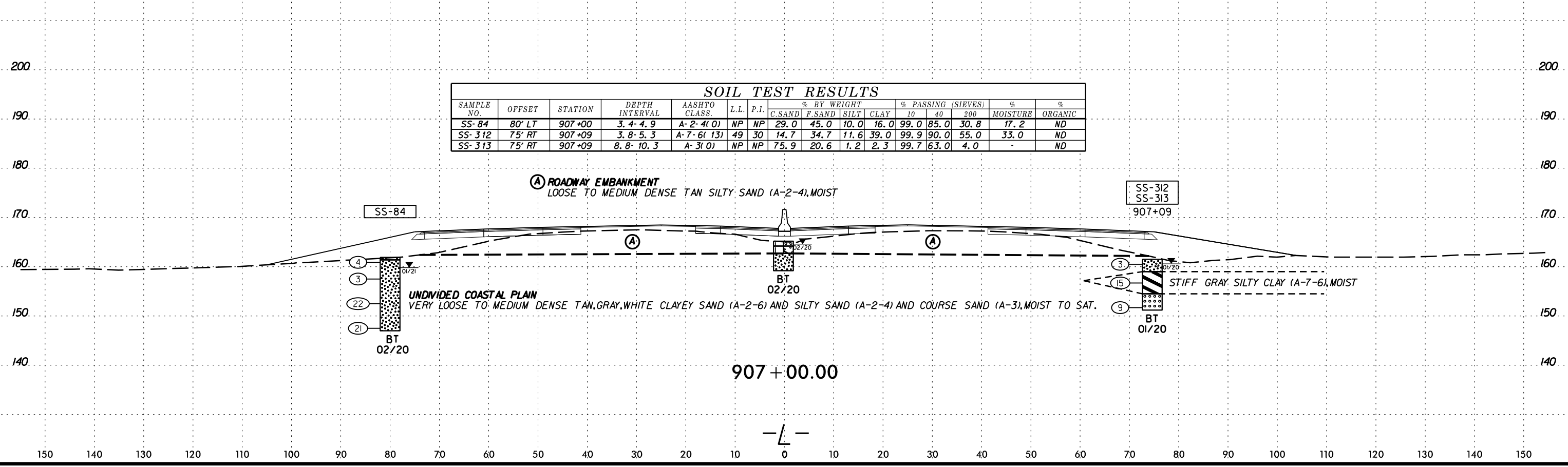
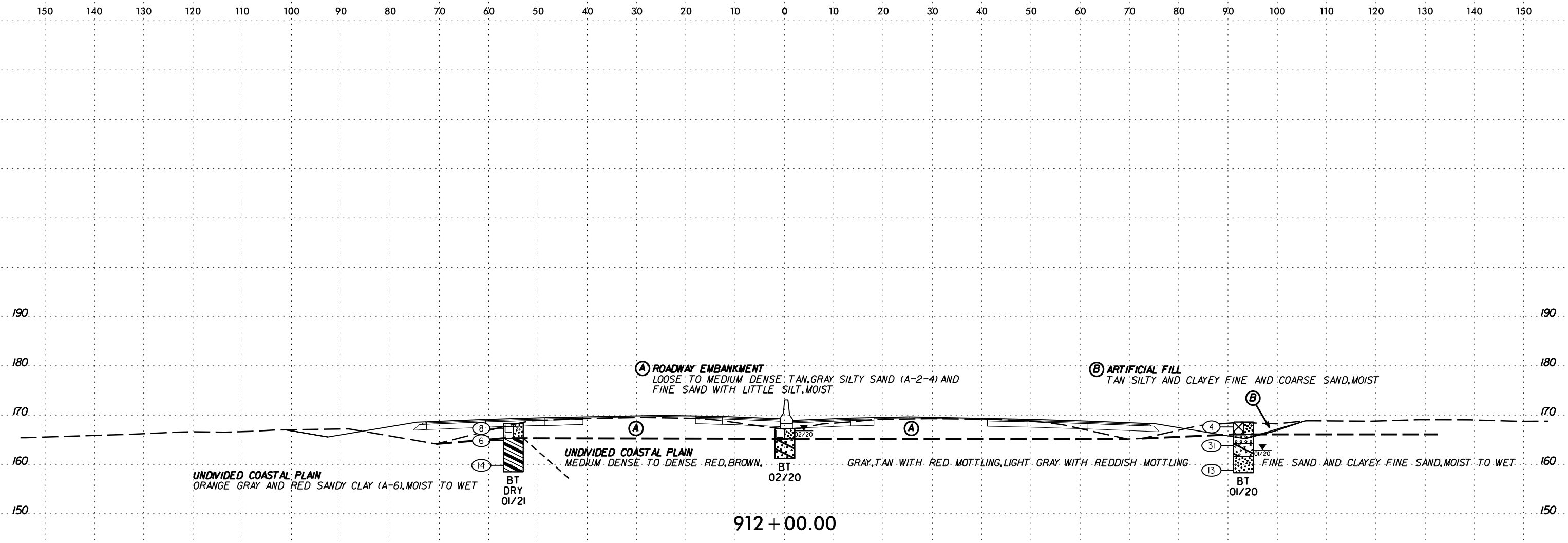
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE ORGANIC	
							C.SAND	F.SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-25	100' LT	906+00	0.0-4.5	-	-	-	-	-	-	-	-	-	44	6.5	

Ⓑ ALLUVIAL SOFT BROWN SANDY SILT (A-4) WITH LITTLE ORGANIC MATTER, SAT.

Ⓐ ALLUVIAL SOFT BROWN MUCK, SAT.

Ⓑ BT LOOSE TO DENSE GRAY FINE SAND (A-3), SAT.

BT ALLUVIAL DENSE TAN SILTY SAND (A-2-4), SAT.



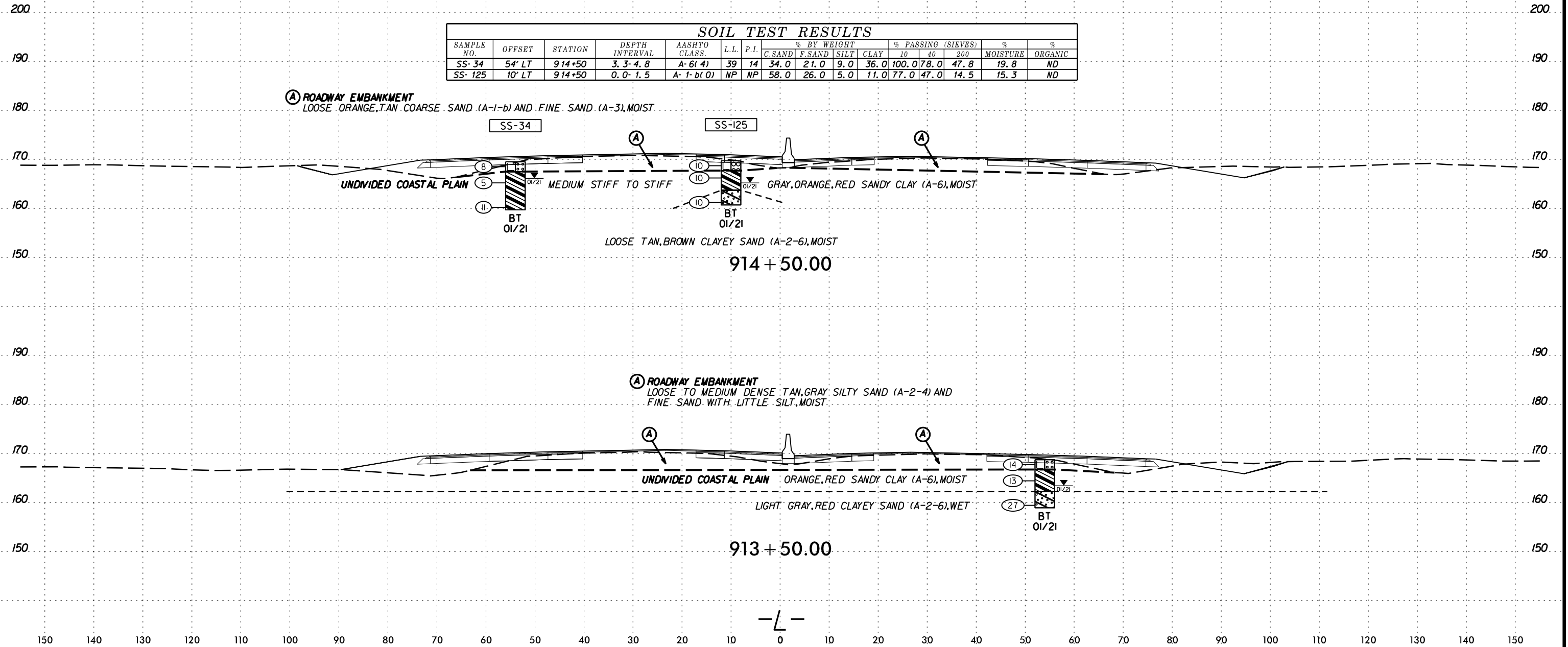
SOIL TEST RESULTS

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-84	80' LT	907+00	3.4-4.9	A-2-4(O)	NP	NP	29.0	45.0	10.0	16.0	99.0	85.0	30.8	17.2	ND
SS-312	75' RT	907+09	3.8-5.3	A-7-6(13)	49	30	14.7	34.7	11.6	39.0	99.9	90.0	55.0	33.0	ND
SS-313	75' RT	907+09	8.8-10.3	A-3(O)	NP	NP	75.9	20.6	1.2	2.3	99.7	63.0	4.0	-	ND

CUSTOMER: CONNOR J. BARRANE
 DATE: 6/23/16

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



SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-34	54' LT	914+50	3.3-4.8	A-6(4)	39	14	34.0	21.0	9.0	36.0	100.0	78.0	47.8	19.8	ND
SS-125	10' LT	914+50	0.0-1.5	A-1-b(0)	NP	NP	58.0	26.0	5.0	11.0	77.0	47.0	14.5	15.3	ND

(A) ROADWAY EMBANKMENT
 LOOSE ORANGE, TAN COARSE SAND (A-1-b) AND FINE SAND (A-3), MOIST

UNDIVIDED COASTAL PLAIN

MEDIUM STIFF TO STIFF

GRAY, ORANGE, RED SANDY CLAY (A-6), MOIST

LOOSE TAN, BROWN CLAYEY SAND (A-2-6), MOIST

914 + 50.00

(A) ROADWAY EMBANKMENT
 LOOSE TO MEDIUM DENSE TAN, GRAY SILTY SAND (A-2-4) AND FINE SAND WITH LITTLE SILT, MOIST

UNDIVIDED COASTAL PLAIN

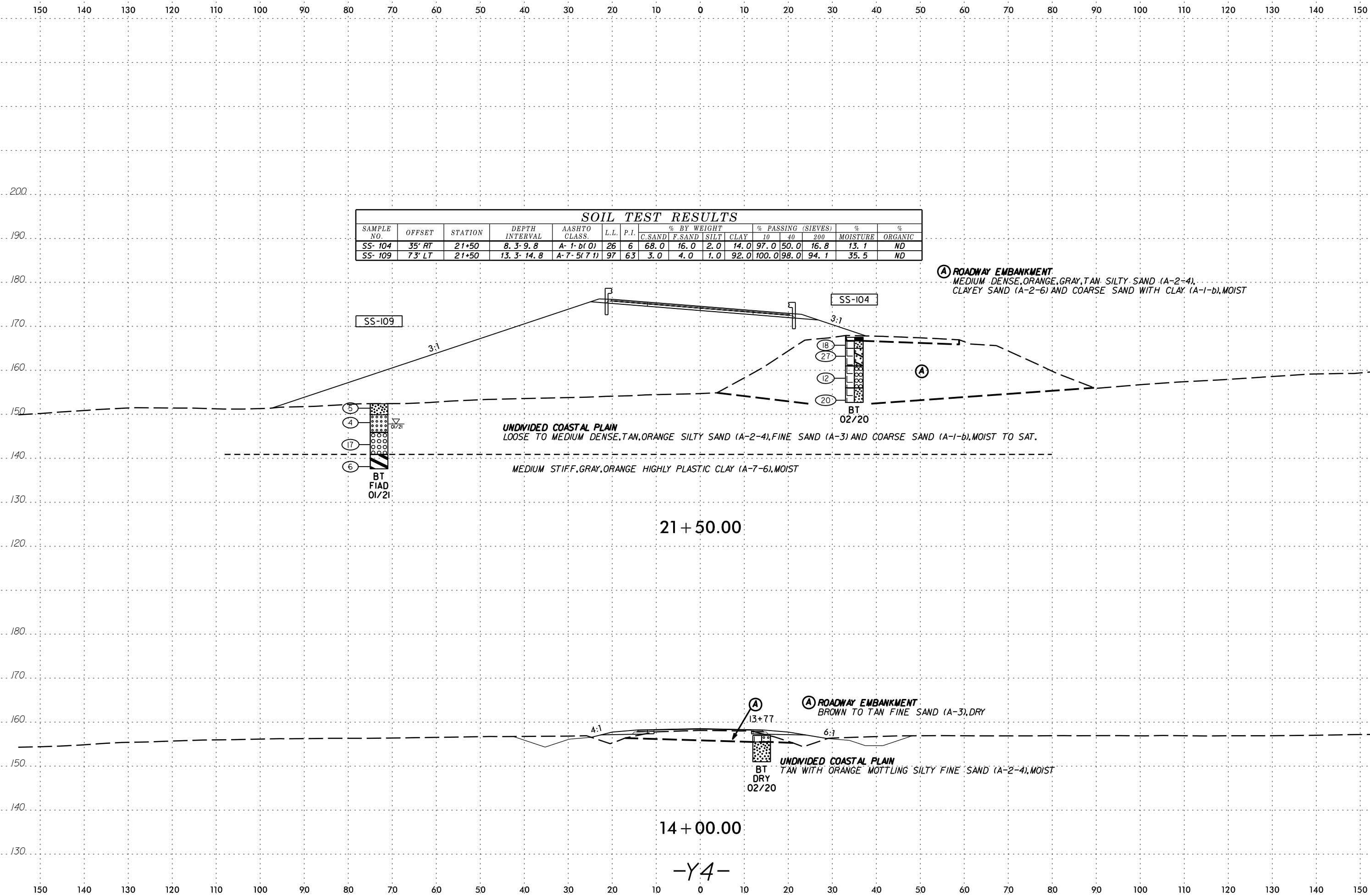
ORANGE, RED SANDY CLAY (A-6), MOIST

LIGHT GRAY, RED CLAYEY SAND (A-2-6), WET

913 + 50.00

-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.	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-104	35' RT	21+50	8.3-9.8	A-1-b(0)	26	6	68.0	16.0	2.0	14.0	97.0	50.0	16.8	13.1	ND
SS-109	73' LT	21+50	13.3-14.8	A-7-5(71)	97	63	3.0	4.0	1.0	92.0	100.0	98.0	94.1	35.5	ND

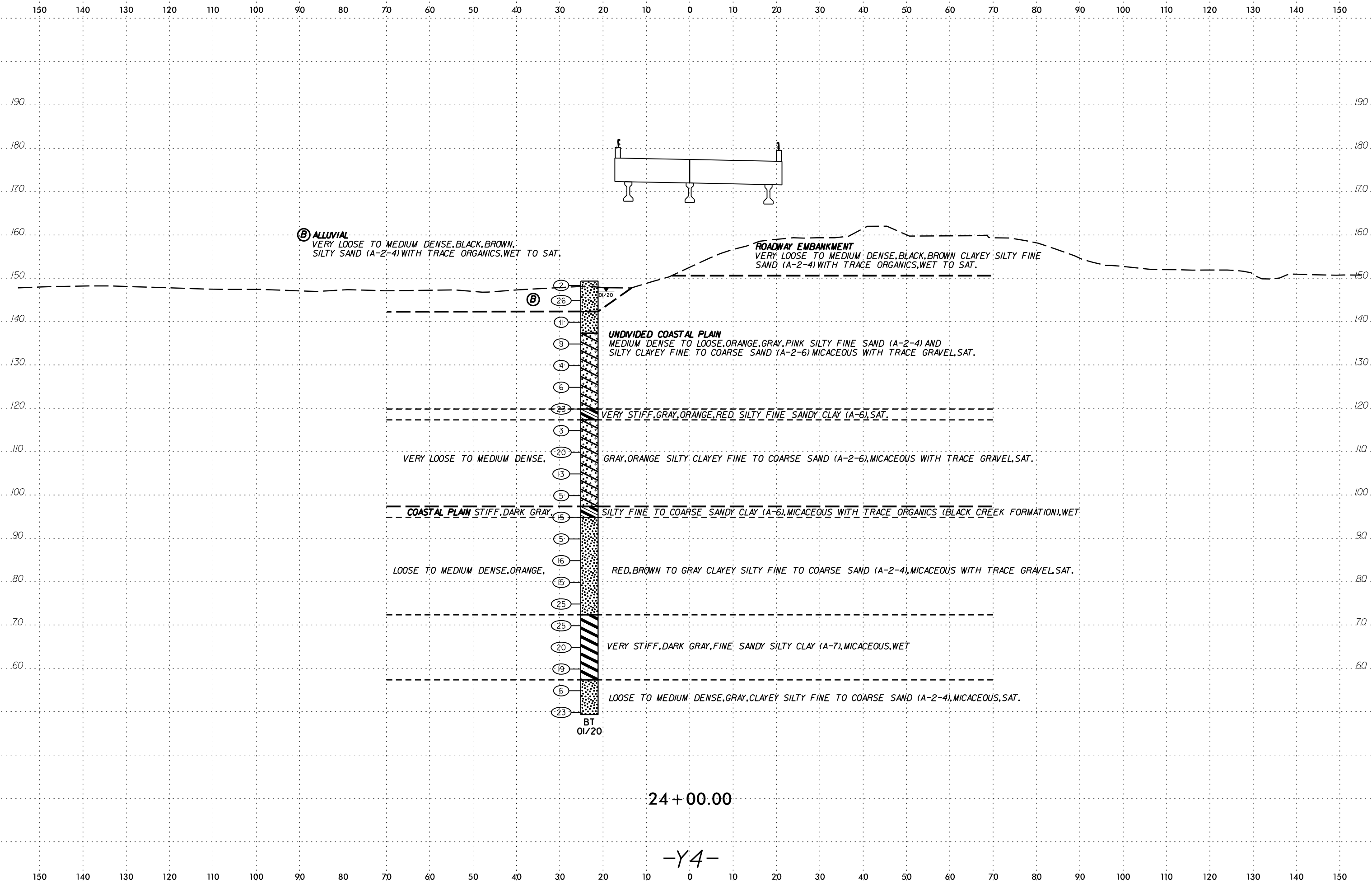
21 + 50.00

14 + 00.00

-Y4-

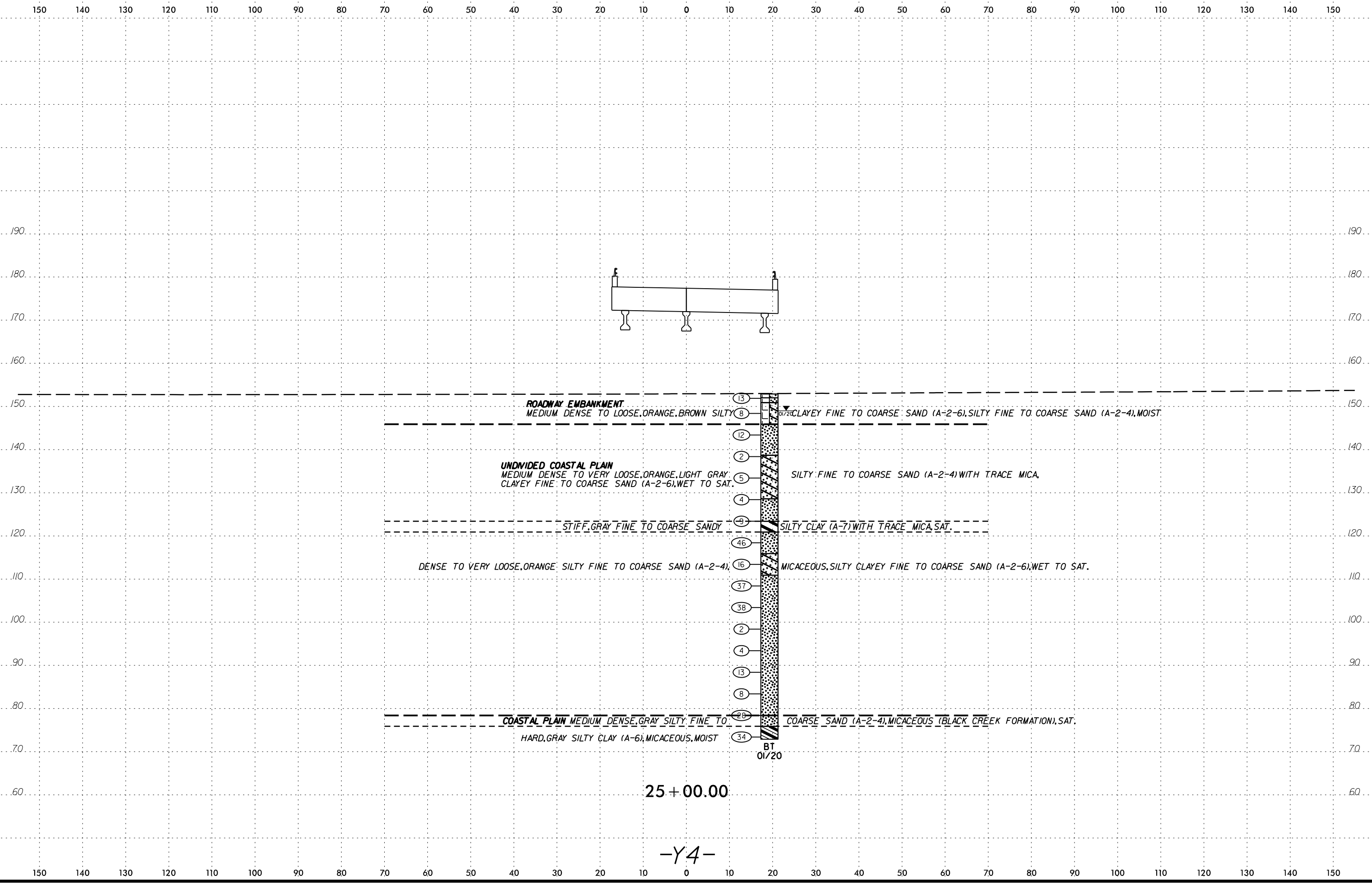
6/23/16

0 5 10		
PROJ. REFERENCE NO.	SHEET NO.	
I-5987B	264	



SCALE 1"=20'

6/23/16



ROADWAY EMBANKMENT
 MEDIUM DENSE TO LOOSE, ORANGE, BROWN SILTY

CLAYEY FINE TO COARSE SAND (A-2-6), SILTY FINE TO COARSE SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
 MEDIUM DENSE TO VERY LOOSE, ORANGE, LIGHT GRAY
 CLAYEY FINE TO COARSE SAND (A-2-6), WET TO SAT.

SILTY FINE TO COARSE SAND (A-2-4) WITH TRACE MICA,

STIFF, GRAY FINE TO COARSE SANDY

SILTY CLAY (A-7) WITH TRACE MICA, SAT.

DENSE TO VERY LOOSE, ORANGE, SILTY FINE TO COARSE SAND (A-2-4),

MICACEOUS, SILTY CLAYEY FINE TO COARSE SAND (A-2-6), WET TO SAT.

COASTAL PLAIN MEDIUM DENSE, GRAY SILTY FINE TO
 HARD, GRAY SILTY CLAY (A-6), MICACEOUS, MOIST

COARSE SAND (A-2-4), MICACEOUS (BLACK CREEK FORMATION), SAT.

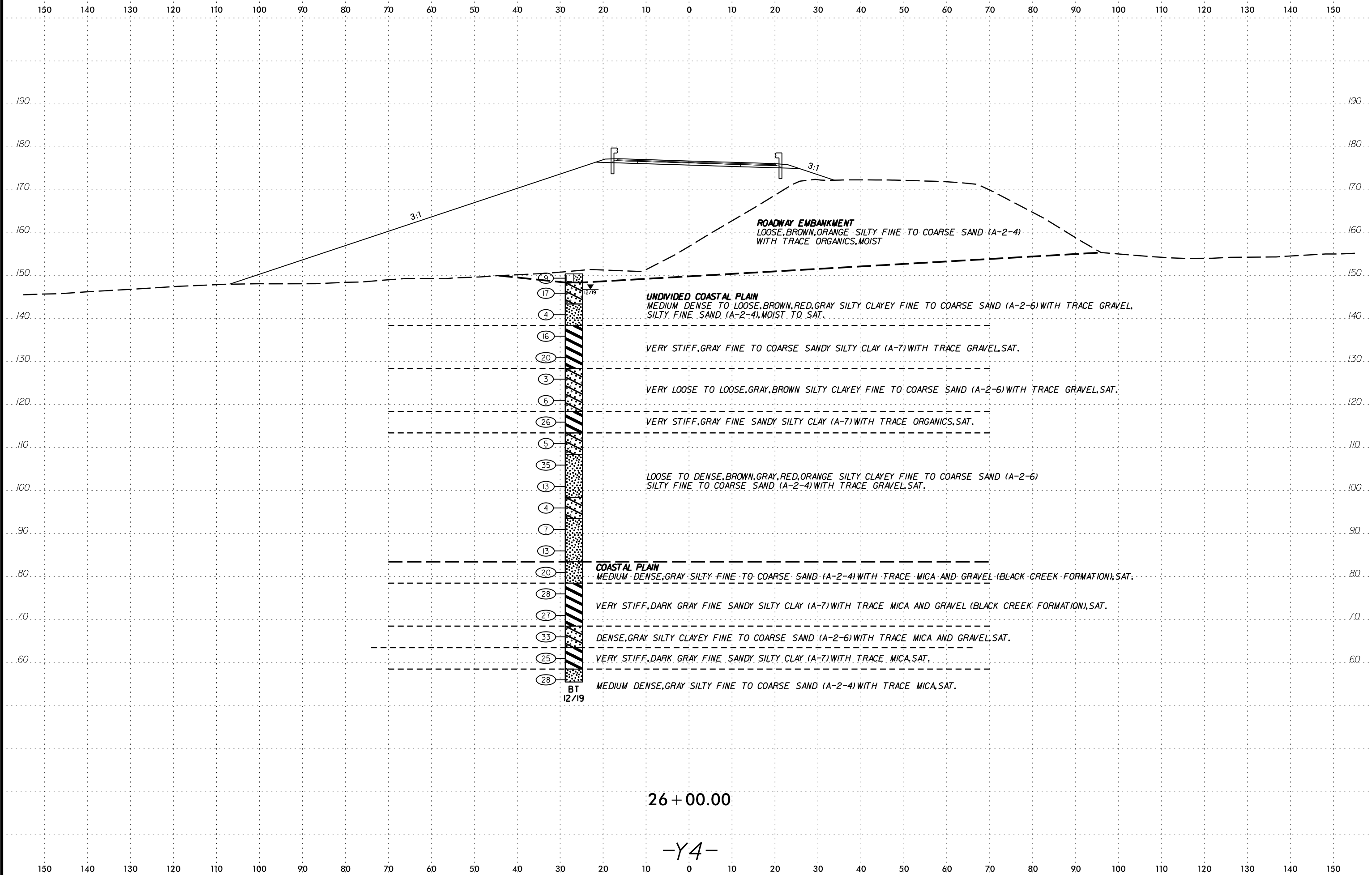
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- BT
- 01/20

25+00.00

-Y4-

SYTIME
CON
ARRIVE
JUL

6/23/16

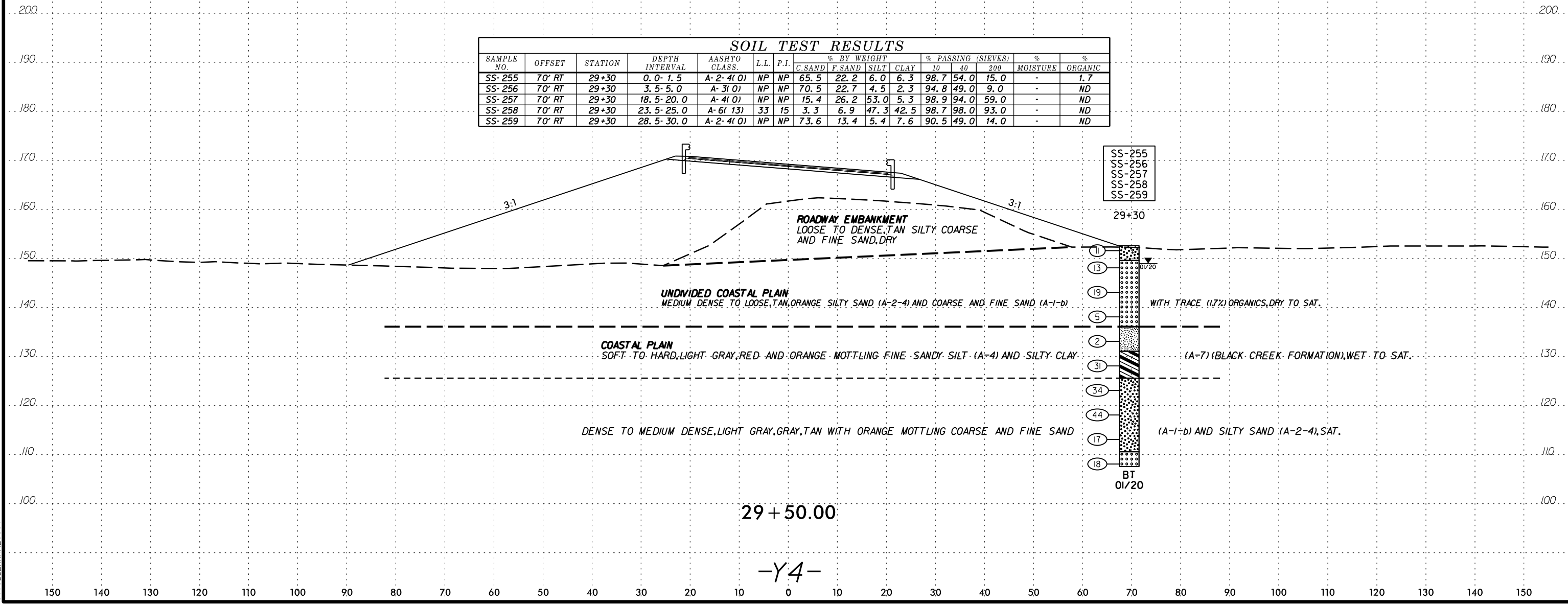


DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 APPROVED BY: [illegible]

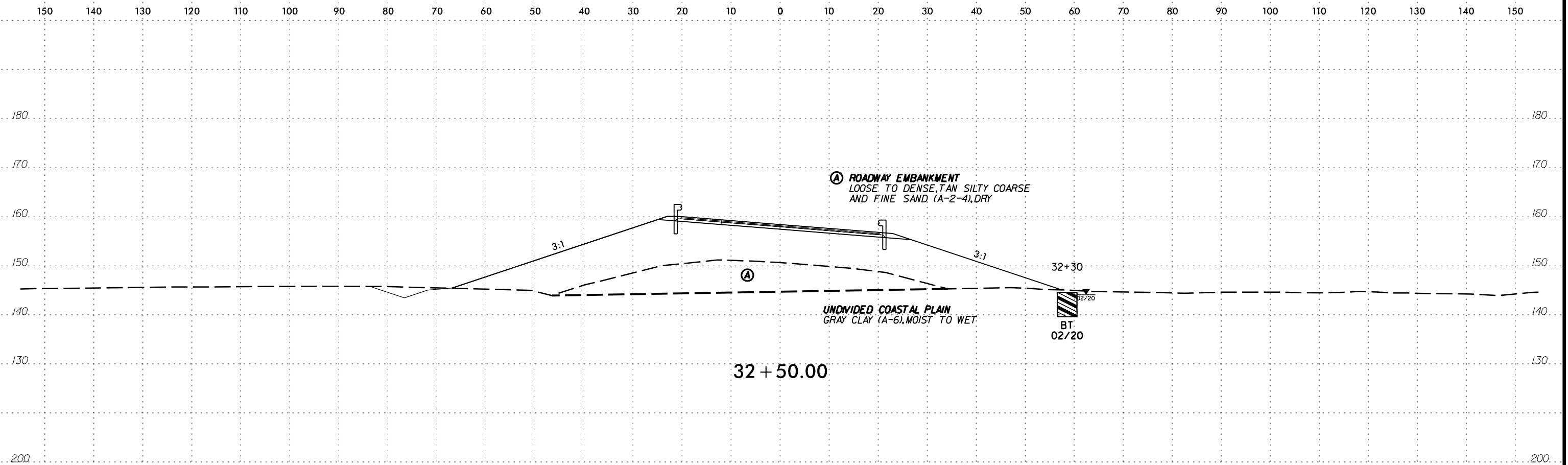
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SOIL TEST RESULTS

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-255	70' RT	29+30	0.0-1.5	A-2-4(0)	NP	NP	65.5	22.2	6.0	6.3	98.7	54.0	15.0	-	1.7
SS-256	70' RT	29+30	3.5-5.0	A-3(0)	NP	NP	70.5	22.7	4.5	2.3	94.8	49.0	9.0	-	ND
SS-257	70' RT	29+30	18.5-20.0	A-4(0)	NP	NP	15.4	26.2	53.0	5.3	98.9	94.0	59.0	-	ND
SS-258	70' RT	29+30	23.5-25.0	A-6(13)	33	15	3.3	6.9	47.3	42.5	98.7	98.0	93.0	-	ND
SS-259	70' RT	29+30	28.5-30.0	A-2-4(0)	NP	NP	73.6	13.4	5.4	7.6	90.5	49.0	14.0	-	ND



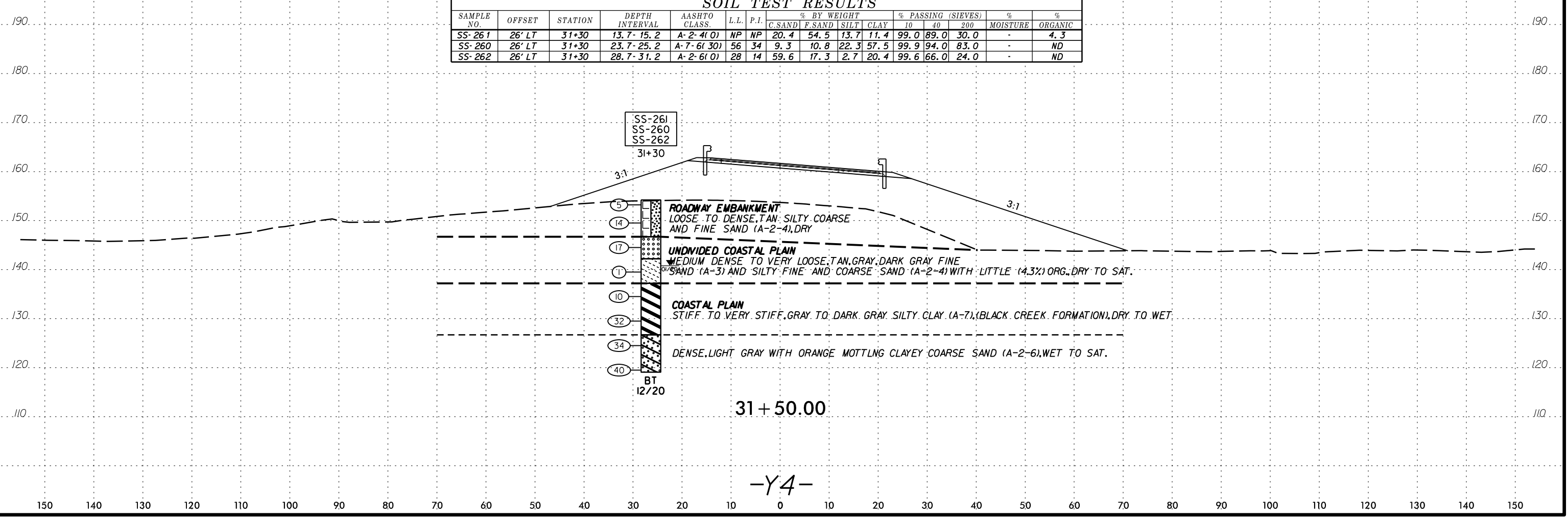
6/23/16
 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150
 200 190 180 170 160 150 140 130 120 110 100



32 + 50.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-261	26' LT	31+30	13.7- 15.2	A-2-4(0)	NP	NP	20.4	54.5	13.7	11.4	99.0	89.0	30.0	-	4.3
SS-260	26' LT	31+30	23.7- 25.2	A-7-6(30)	56	34	9.3	10.8	22.3	57.5	99.9	94.0	83.0	-	ND
SS-262	26' LT	31+30	28.7- 31.2	A-2-6(0)	28	14	59.6	17.3	2.7	20.4	99.6	66.0	24.0	-	ND



31 + 50.00

-Y4-

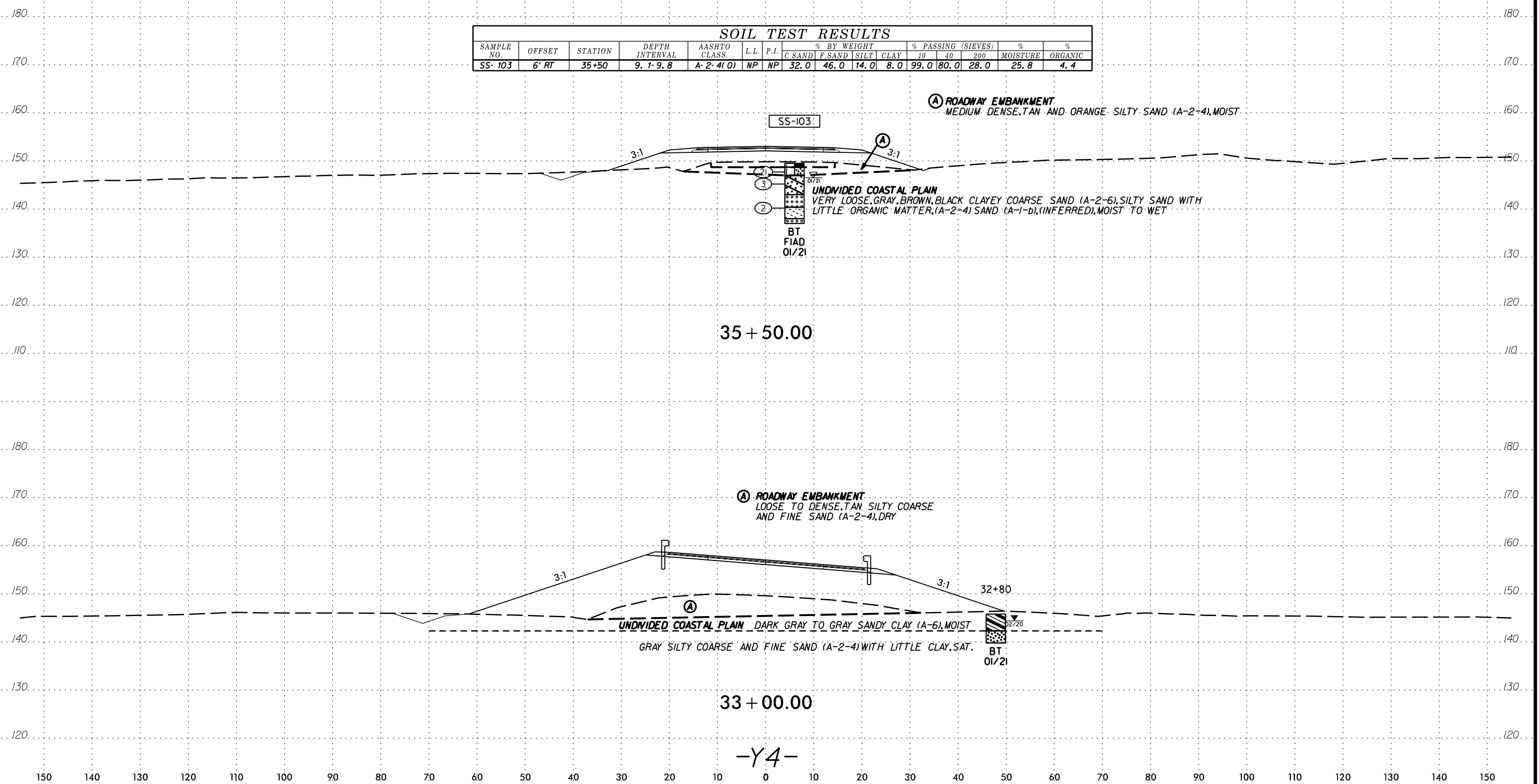
SYTIME 2016/06/23 10:00 AM

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

SOIL TEST RESULTS

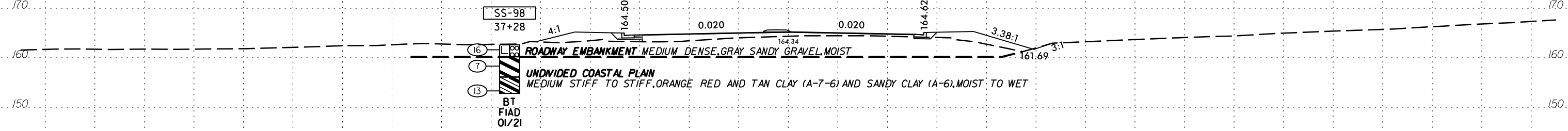
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	
							C.SAND	F.SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-103	6' RT	35+50	9.1-9.8	A-2-4(O)	NP	NP	32.0	46.0	14.0	8.0	99.0	80.0	28.0	25.8	4.4



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

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

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-98	56' LT	37+28	3.3-4.8	A-7-6(11)	42	24	29.0	15.0	11.0	45.0	99.0	79.0	57.9	24.6	ND



37 + 50.00



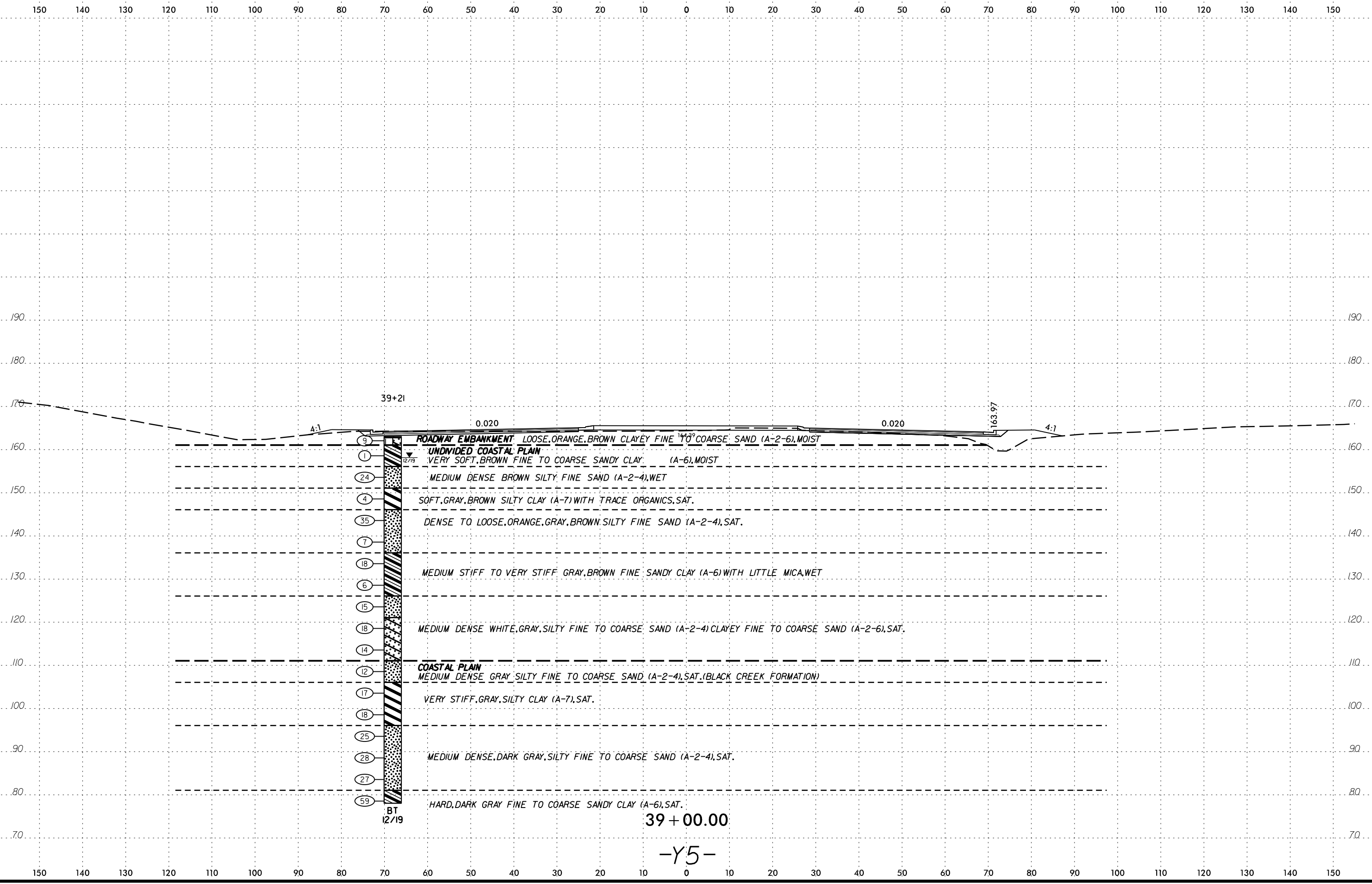
33 + 00.00

-Y5-

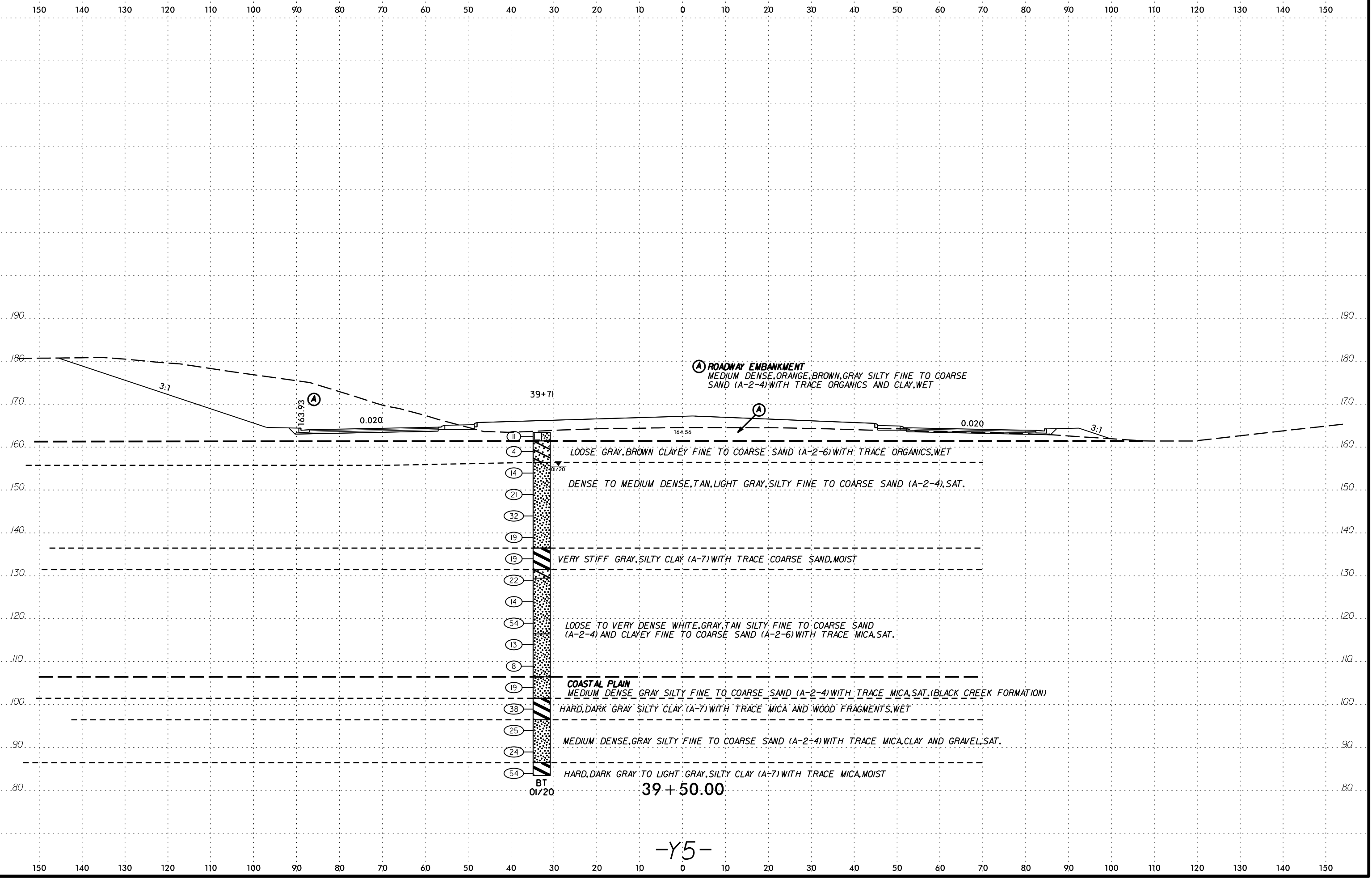
SCHEMATIC CONSTRUCTION ARRANGEMENT

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

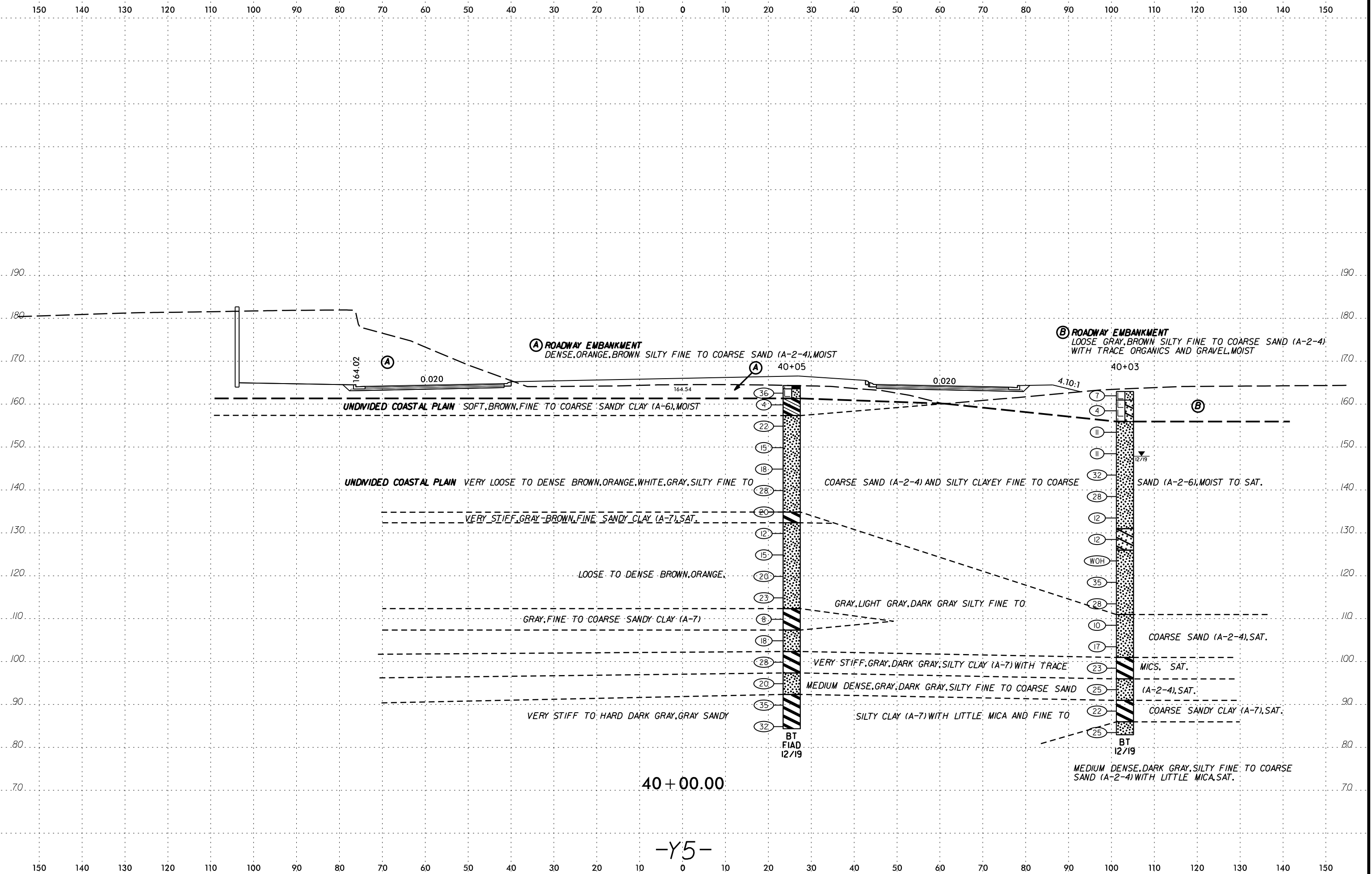


SYNTHETIC CONCRETE CURB



-Y5-

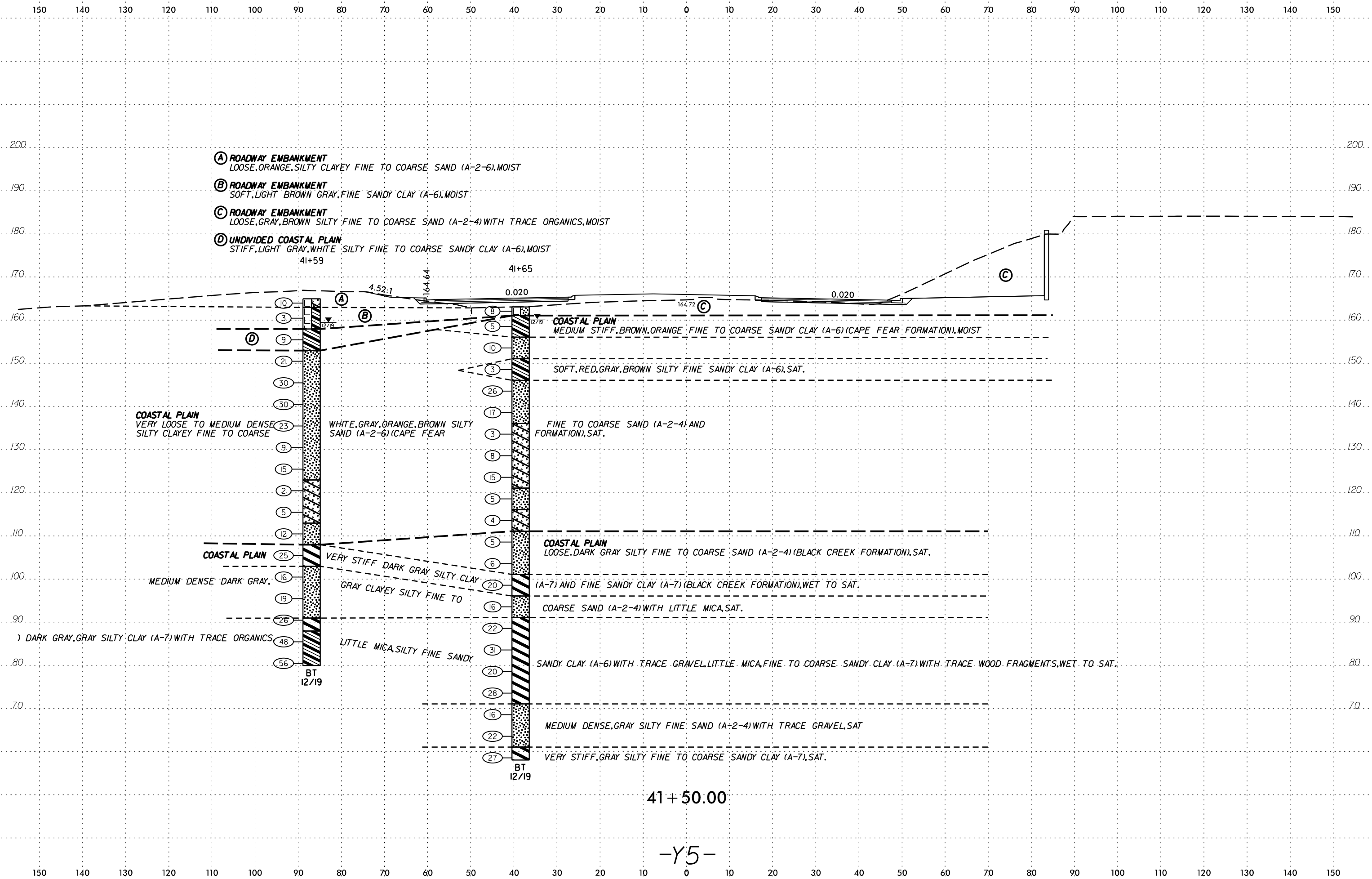
SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT



40 + 00.00

-Y5-

SUBMITTED BY: [unreadable]
 CHECKED BY: [unreadable]
 DATE: [unreadable]

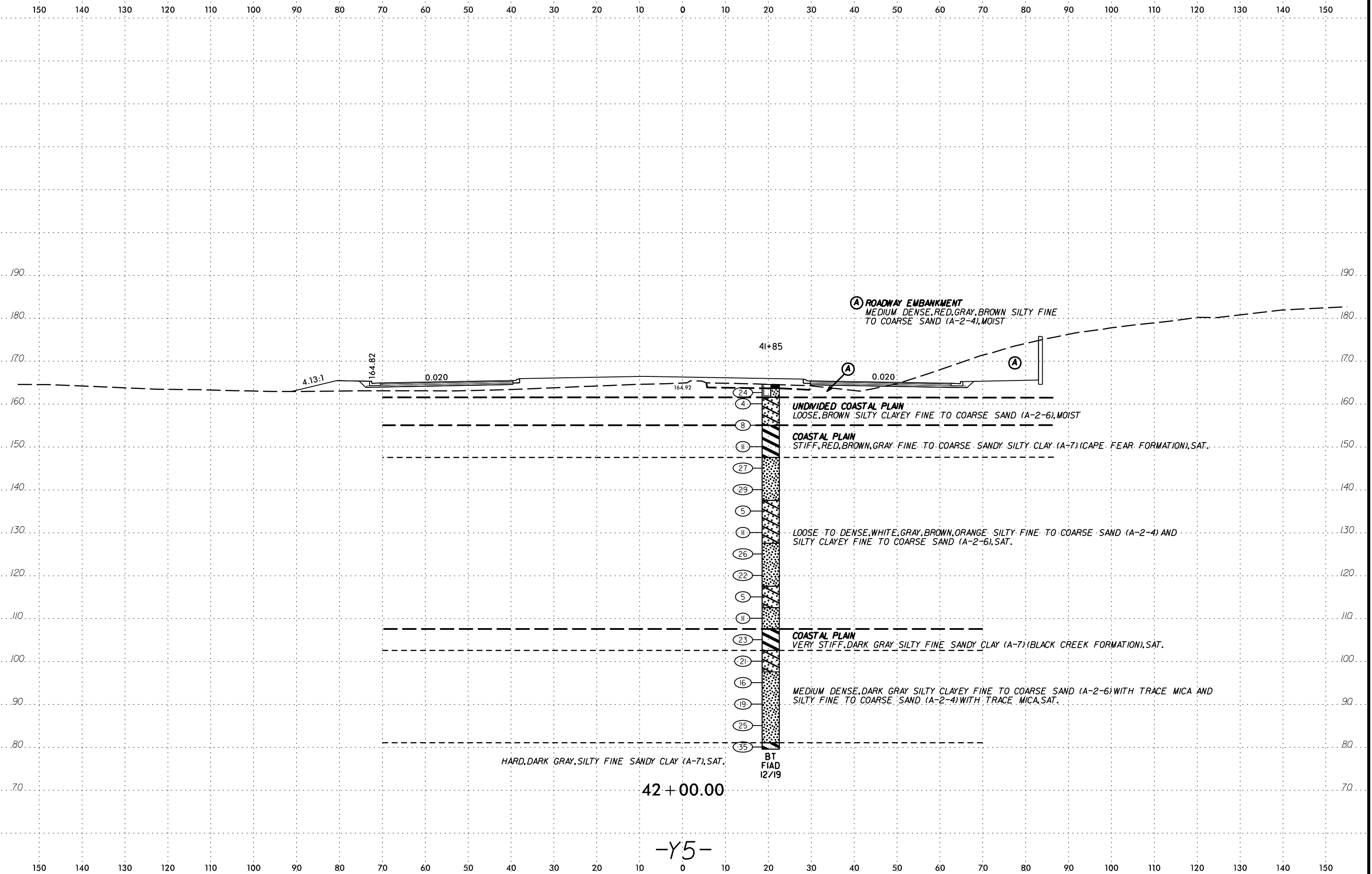


41 + 50.00

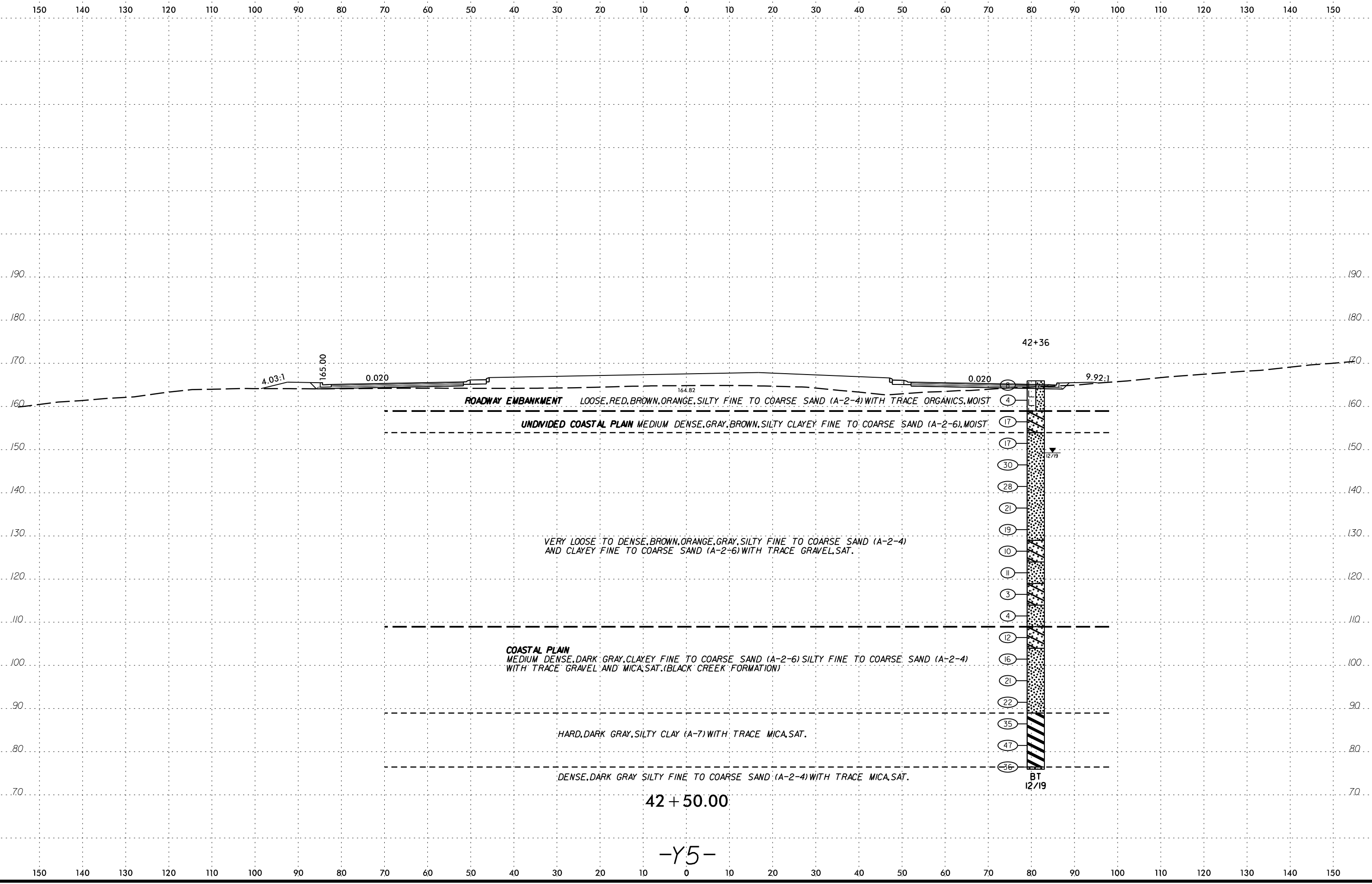
-Y5-

DATE: 6/23/16
SCALE: AS SHOWN
PROJECT: I-5987B
SHEET: 274

6/23/16
SYTIME
CON
ARRIVE



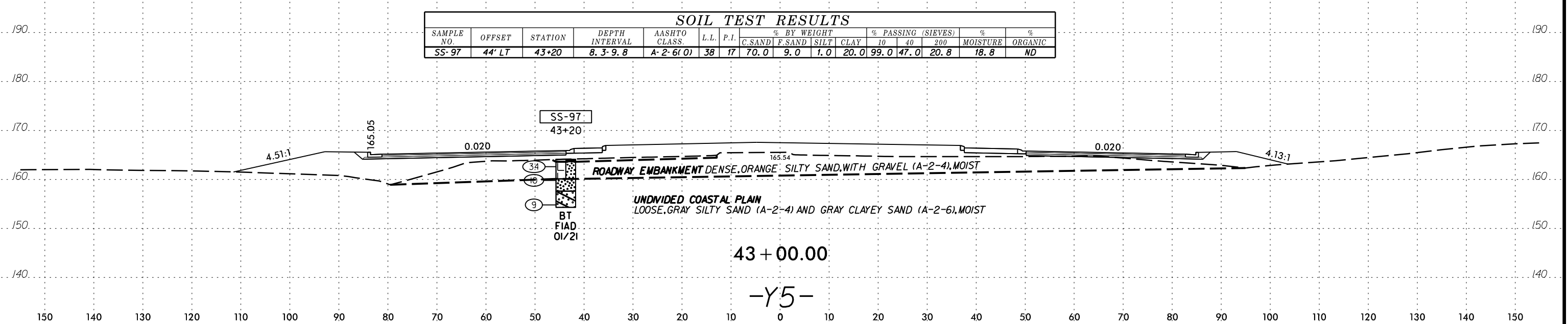
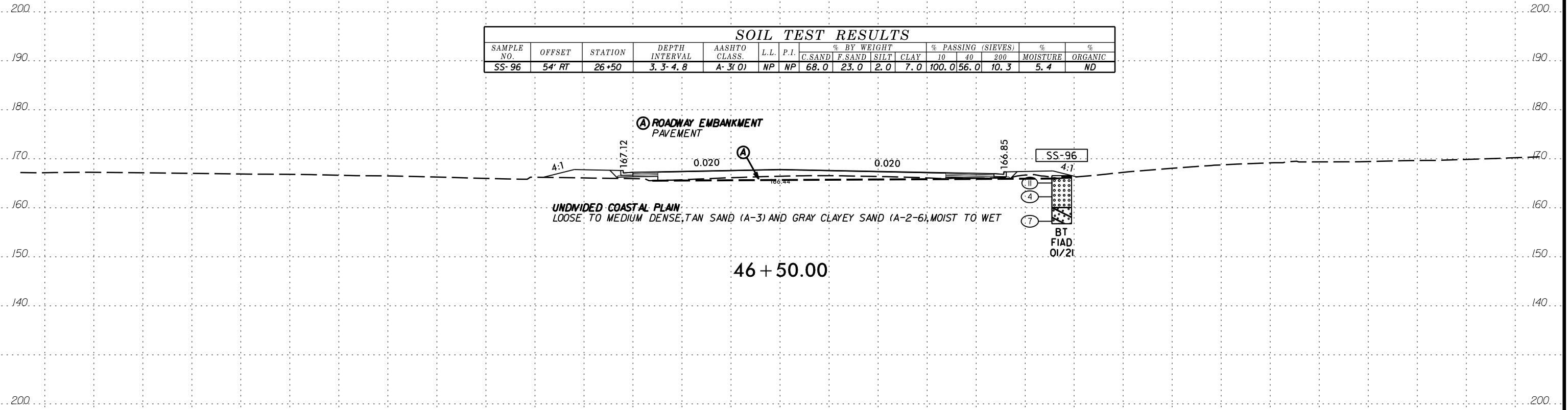
6/23/16



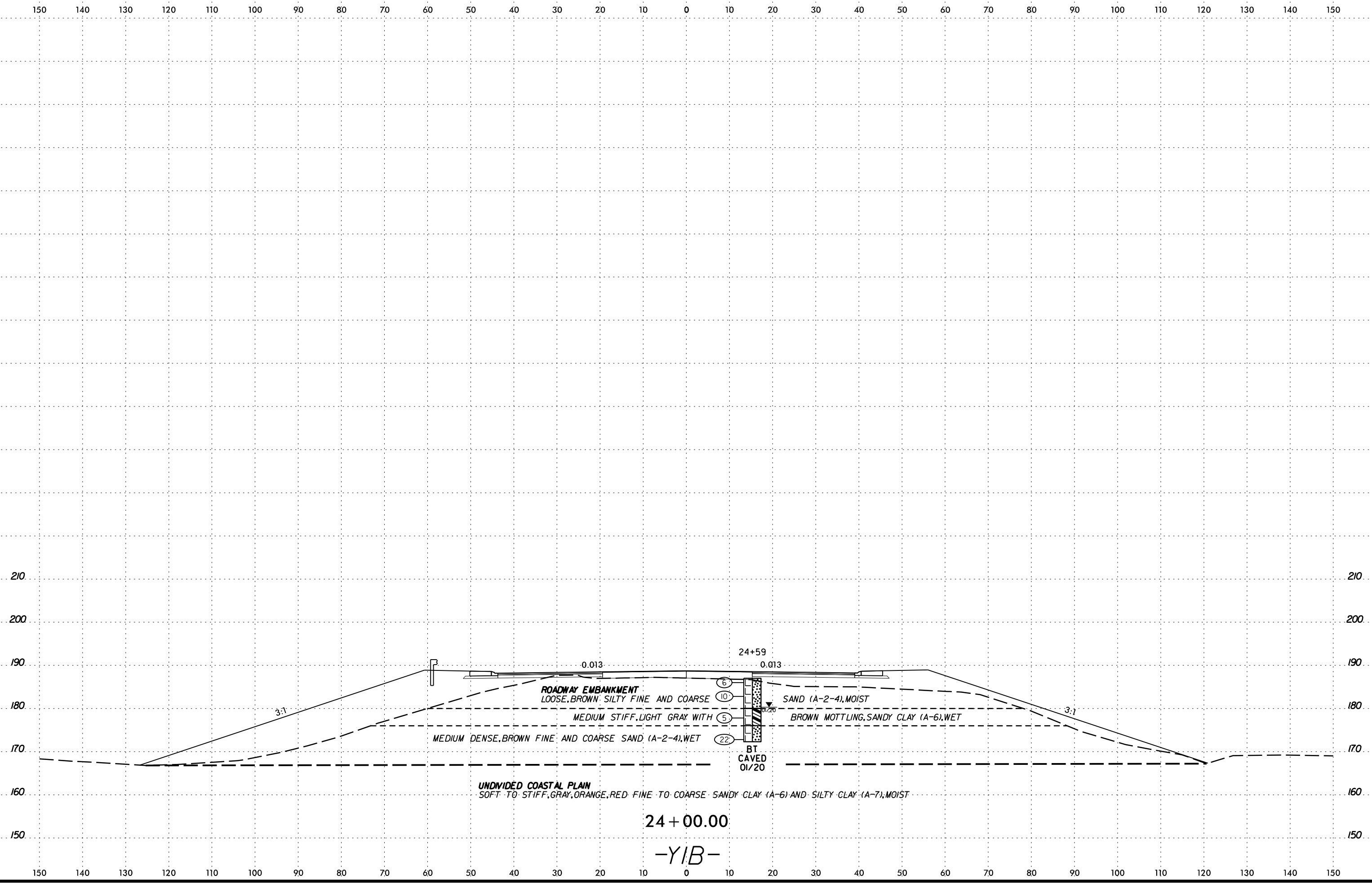
SYTIME
CON
ARRIVE

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



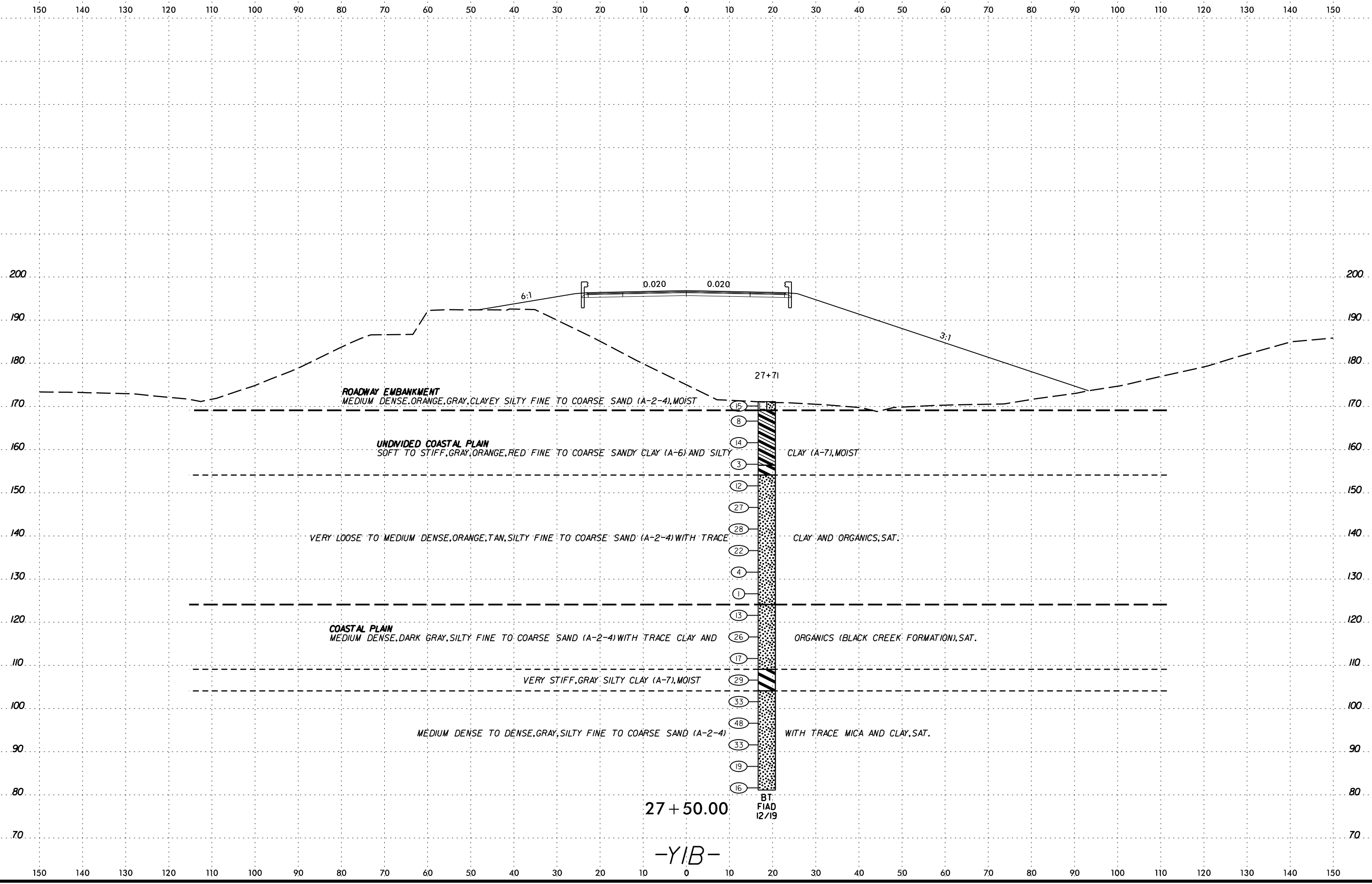
6/23/16



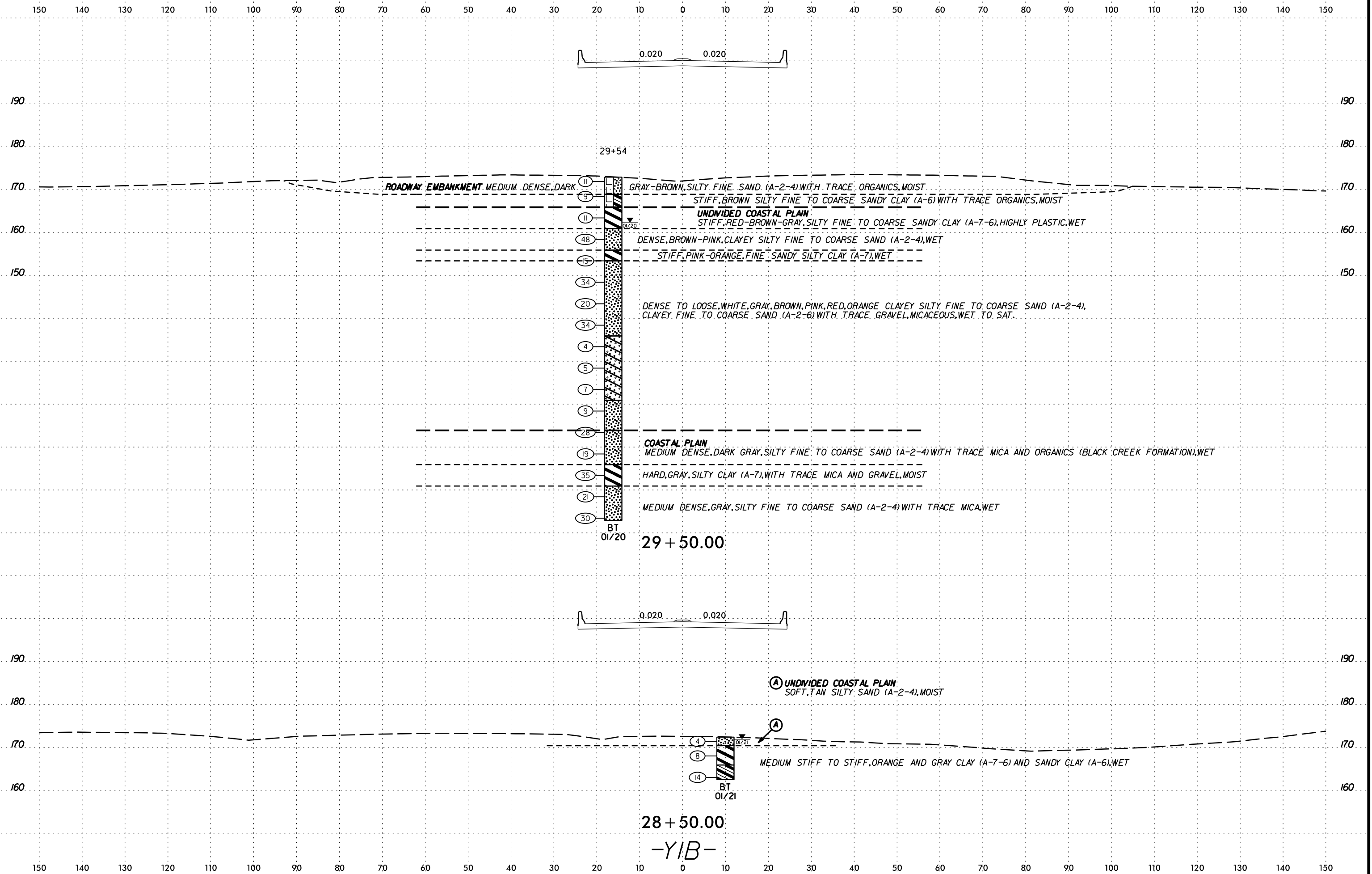
SECTION ON CENTERLINE

24 + 00.00
-YIB-

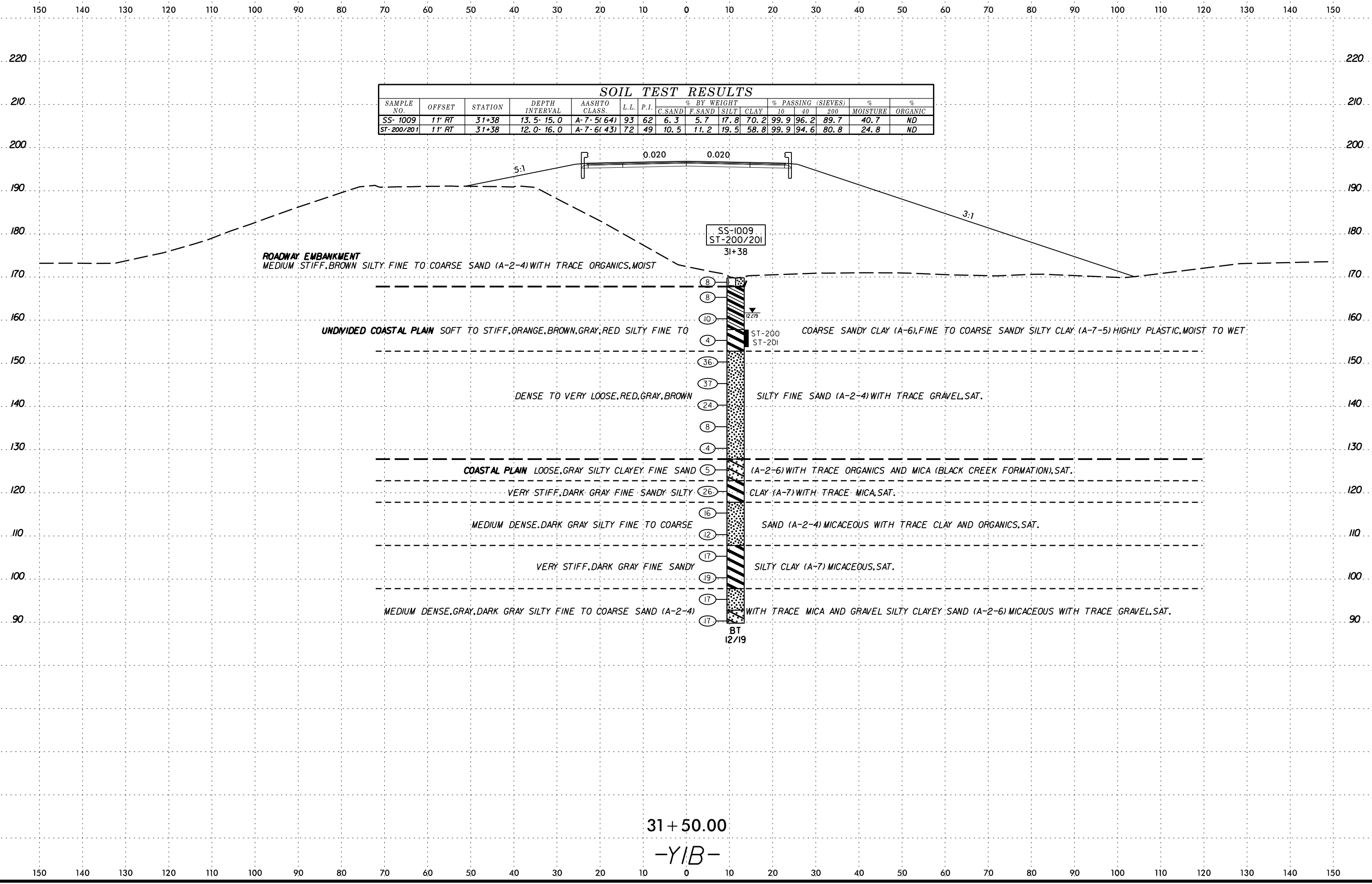
6/23/16



6/23/16
SUNSHINE CONSTRUCTION
SHERMAN, ARIZONA



28+50.00
-Y1B-



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-1009	11' RT	31+38	13.5- 15.0	A-7-5(64)	93	62	6.3	5.7	17.8	70.2	99.9	96.2	89.7	40.7	ND
ST-200/201	11' RT	31+38	12.0- 16.0	A-7-6(43)	72	49	10.5	11.2	19.5	58.8	99.9	94.6	80.8	24.8	ND

ROADWAY EMBANKMENT
 MEDIUM STIFF, BROWN SILTY FINE TO COARSE SAND (A-2-4) WITH TRACE ORGANICS, MOIST

UNDIVIDED COASTAL PLAIN SOFT TO STIFF, ORANGE, BROWN, GRAY, RED SILTY FINE TO

COARSE SANDY CLAY (A-6), FINE TO COARSE SANDY SILTY CLAY (A-7-5) HIGHLY PLASTIC, MOIST TO WET

DENSE TO VERY LOOSE, RED, GRAY, BROWN

SILTY FINE SAND (A-2-4) WITH TRACE GRAVEL, SAT.

COASTAL PLAIN LOOSE, GRAY SILTY CLAYEY FINE SAND (A-2-6) WITH TRACE ORGANICS AND MICA (BLACK CREEK FORMATION), SAT.

VERY STIFF, DARK GRAY FINE SANDY SILTY CLAY (A-7) WITH TRACE MICA, SAT.

MEDIUM DENSE, DARK GRAY SILTY FINE TO COARSE SAND (A-2-4) MICACEOUS WITH TRACE CLAY AND ORGANICS, SAT.

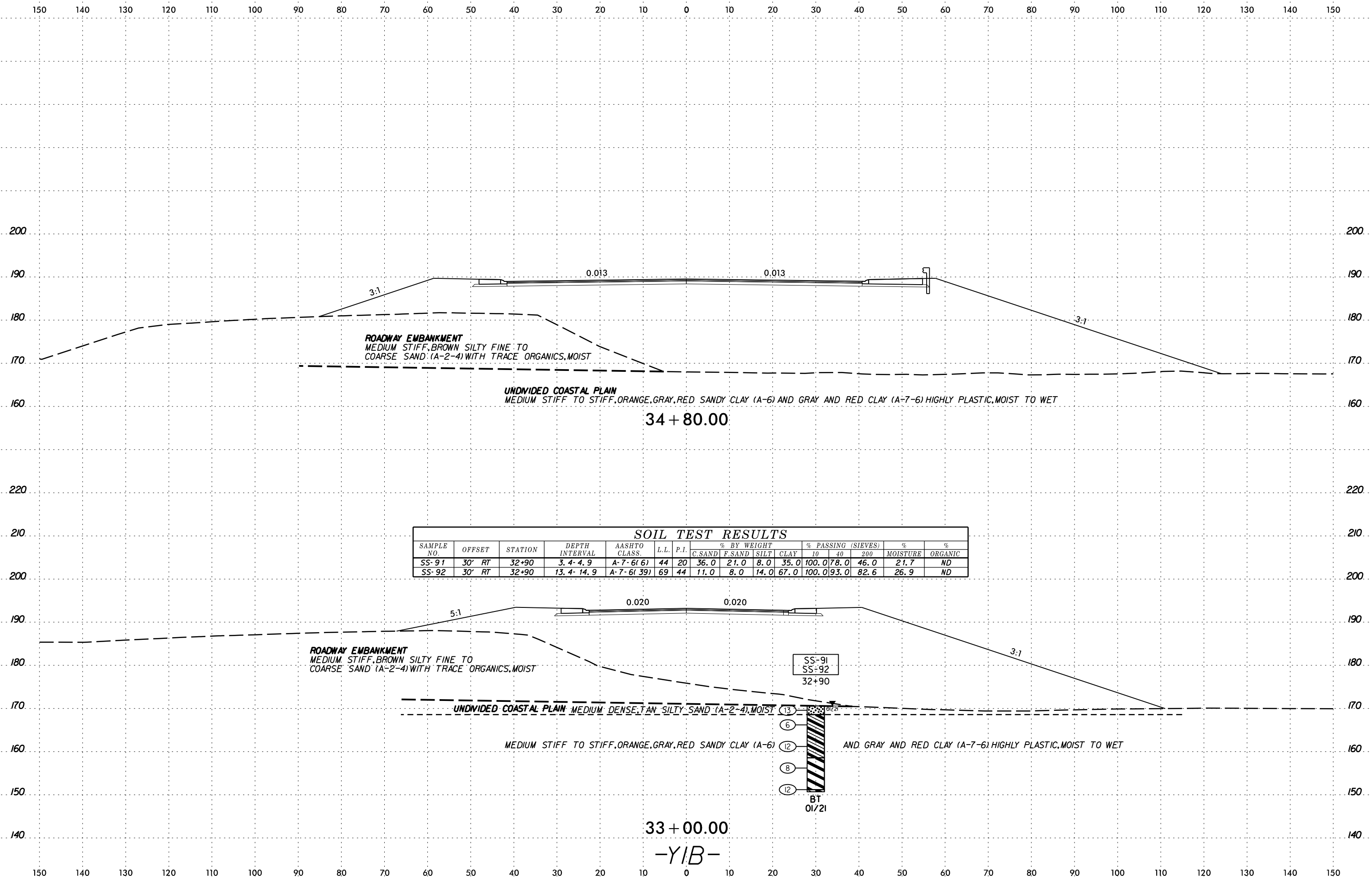
VERY STIFF, DARK GRAY FINE SANDY SILTY CLAY (A-7) MICACEOUS, SAT.

MEDIUM DENSE, GRAY, DARK GRAY SILTY FINE TO COARSE SAND (A-2-4) WITH TRACE MICA AND GRAVEL SILTY CLAYEY SAND (A-2-6) MICACEOUS WITH TRACE GRAVEL, SAT.

31 + 50.00
 -YIB-

SCHEMATIC CROSS SECTION
 OF
 ROADWAY EMBANKMENT
 AT
 STATION
 31+50.00
 -YIB-

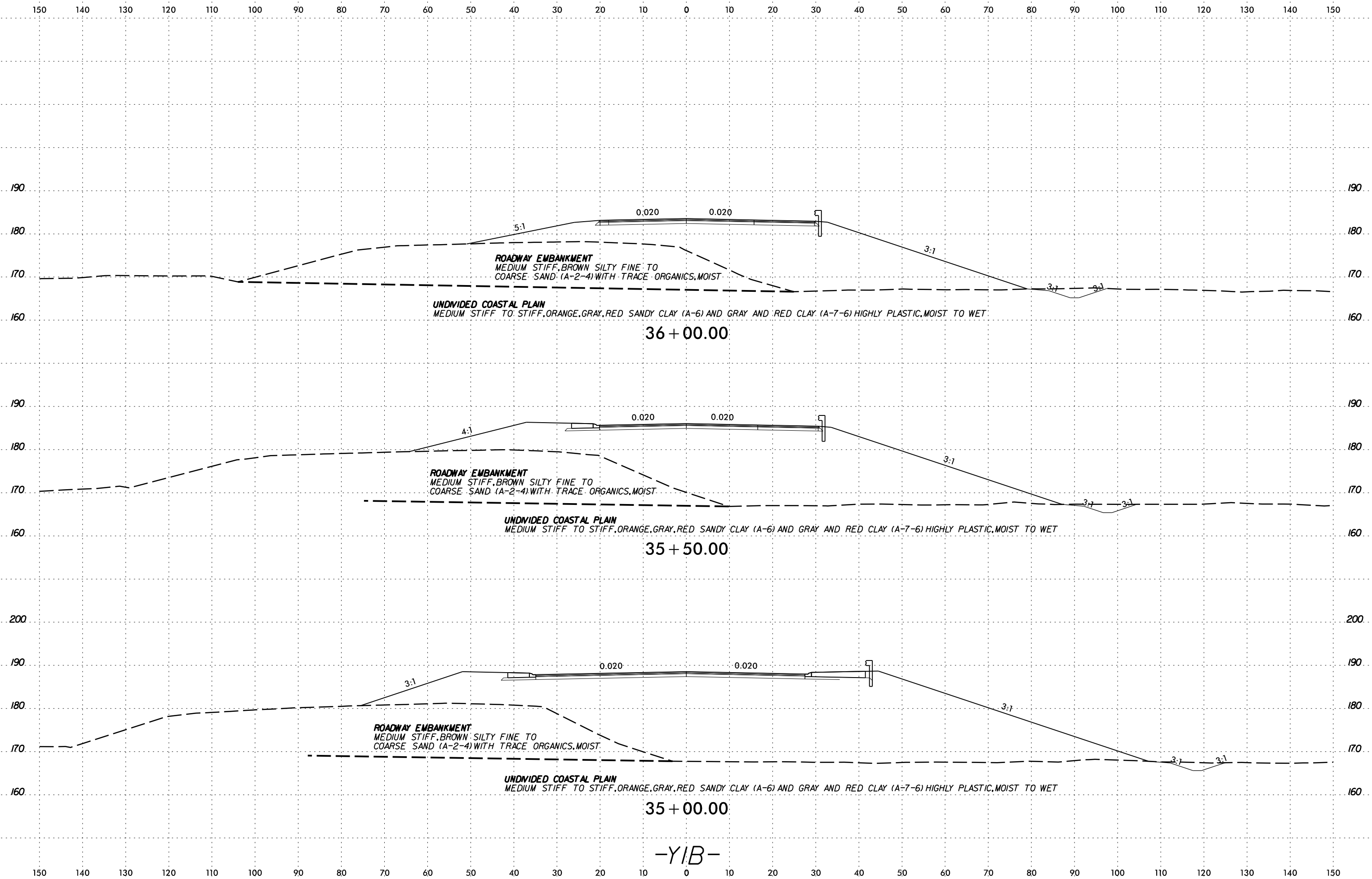
6/23/16



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-91	30' RT	32+90	3.4-4.9	A-7-6(6)	44	20	36.0	21.0	8.0	35.0	100.0	78.0	46.0	21.7	ND
SS-92	30' RT	32+90	13.4-14.9	A-7-6(39)	69	44	11.0	8.0	14.0	67.0	100.0	93.0	82.6	26.9	ND

33 + 00.00
-Y1B-

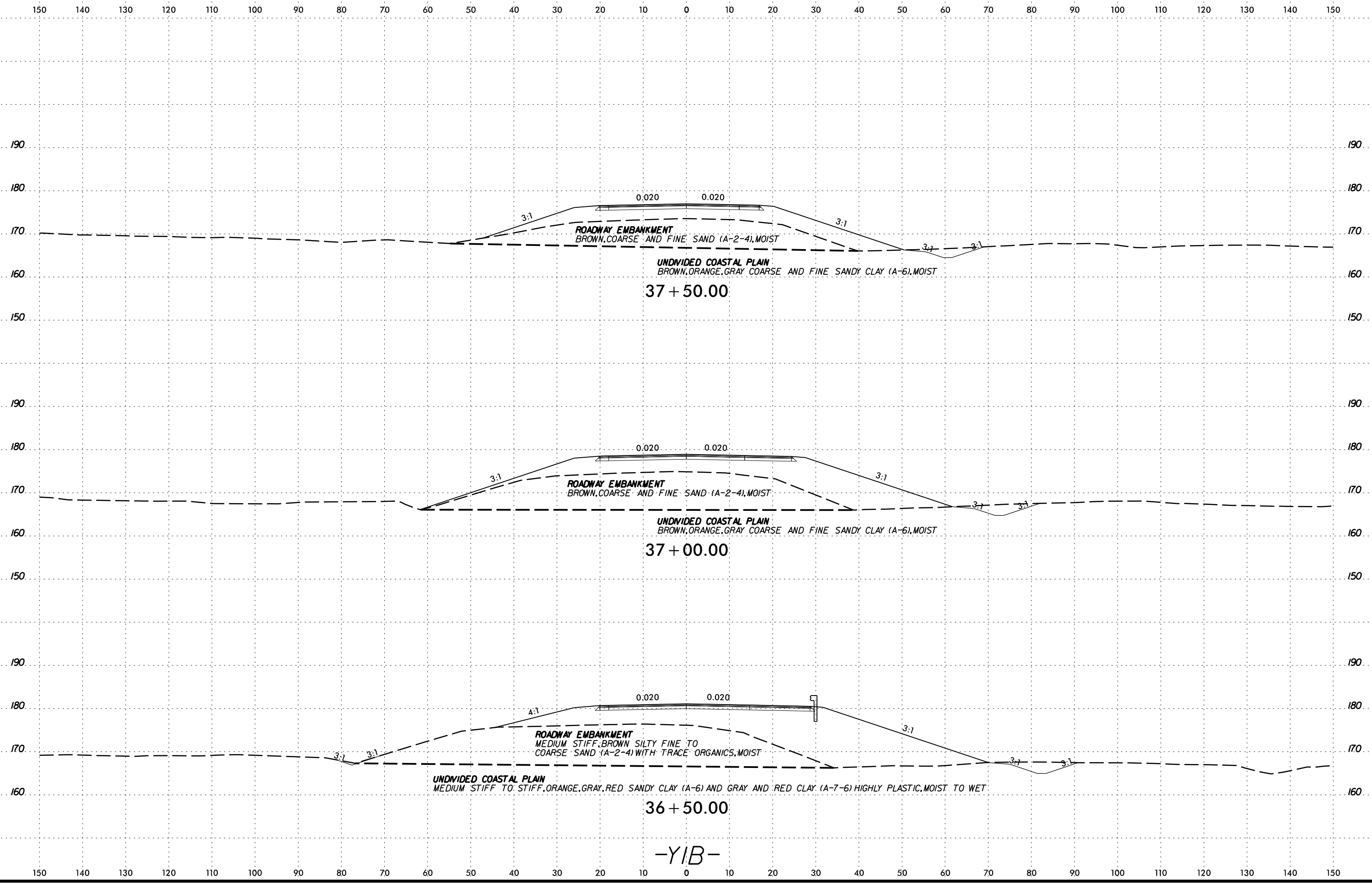
6/23/16



-YIB-

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

6/23/16



37 + 50.00

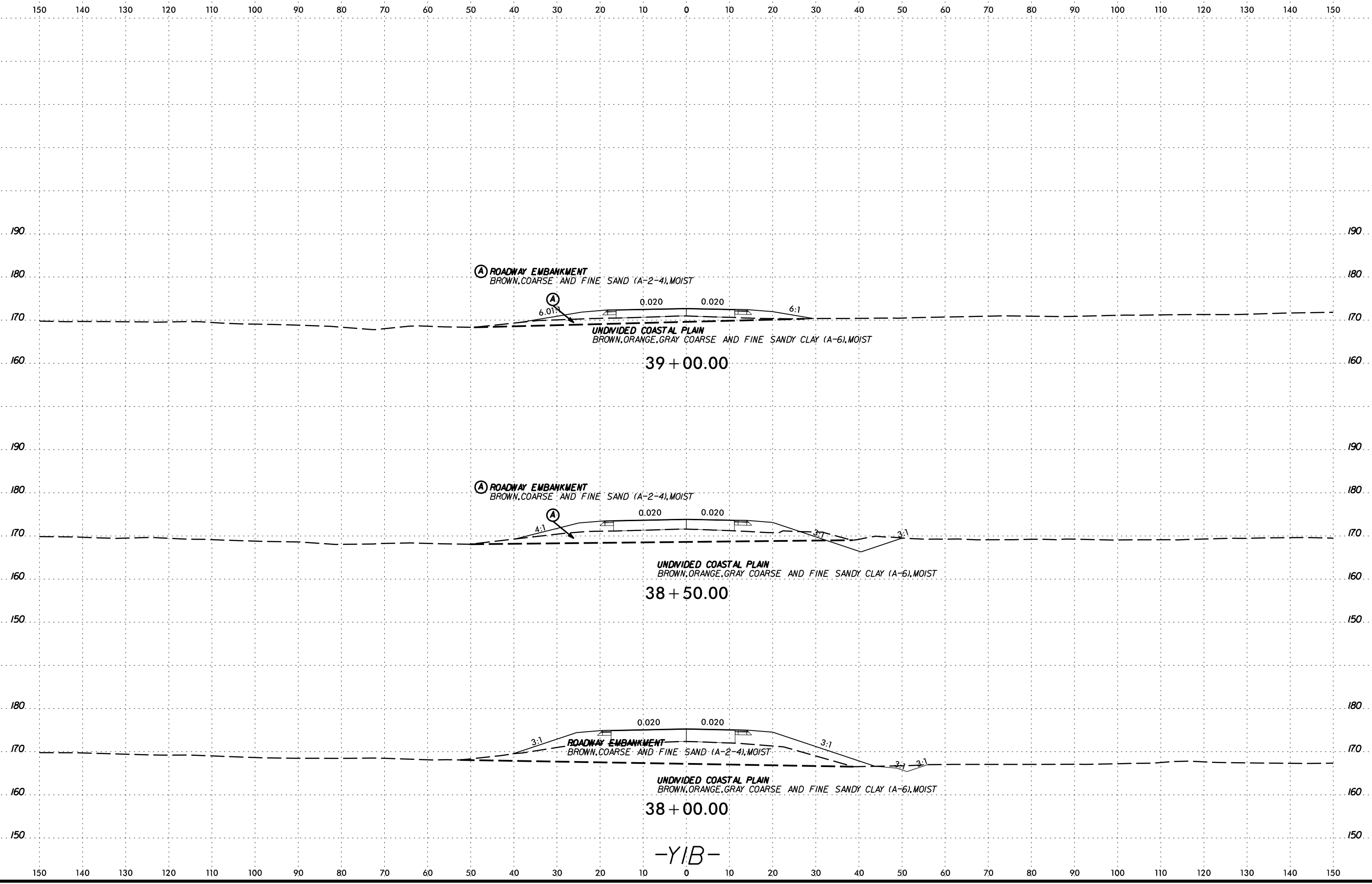
37 + 00.00

36 + 50.00

-YIB-

SYTIME
CON
ARRIVE

6/23/16



SYTIME
CON
ARRIVE
JULY

-YIB-

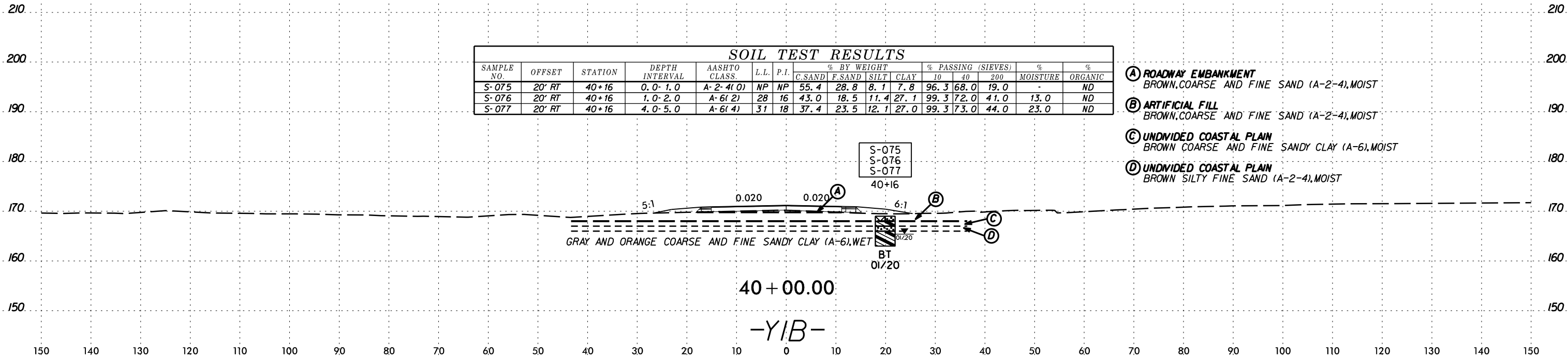
6/23/16



PROJ. REFERENCE NO.
I-5987B

SHEET NO.
286

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		
S-075	20' RT	40+16	0.0-1.0	A-2-4(0)	NP	NP	55.4	28.8	8.1	7.8	96.3	68.0	19.0	-	ND
S-076	20' RT	40+16	1.0-2.0	A-6(2)	28	16	43.0	18.5	11.4	27.1	99.3	72.0	41.0	13.0	ND
S-077	20' RT	40+16	4.0-5.0	A-6(4)	31	18	37.4	23.5	12.1	27.0	99.3	73.0	44.0	23.0	ND

- (A) ROADWAY EMBANKMENT
BROWN, COARSE AND FINE SAND (A-2-4), MOIST
- (B) ARTIFICIAL FILL
BROWN, COARSE AND FINE SAND (A-2-4), MOIST
- (C) UNDIVIDED COASTAL PLAIN
BROWN COARSE AND FINE SANDY CLAY (A-6), MOIST
- (D) UNDIVIDED COASTAL PLAIN
BROWN SILTY FINE SAND (A-2-4), MOIST

SCHEMATIC CROSS SECTION OF ROADWAY

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

200

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180

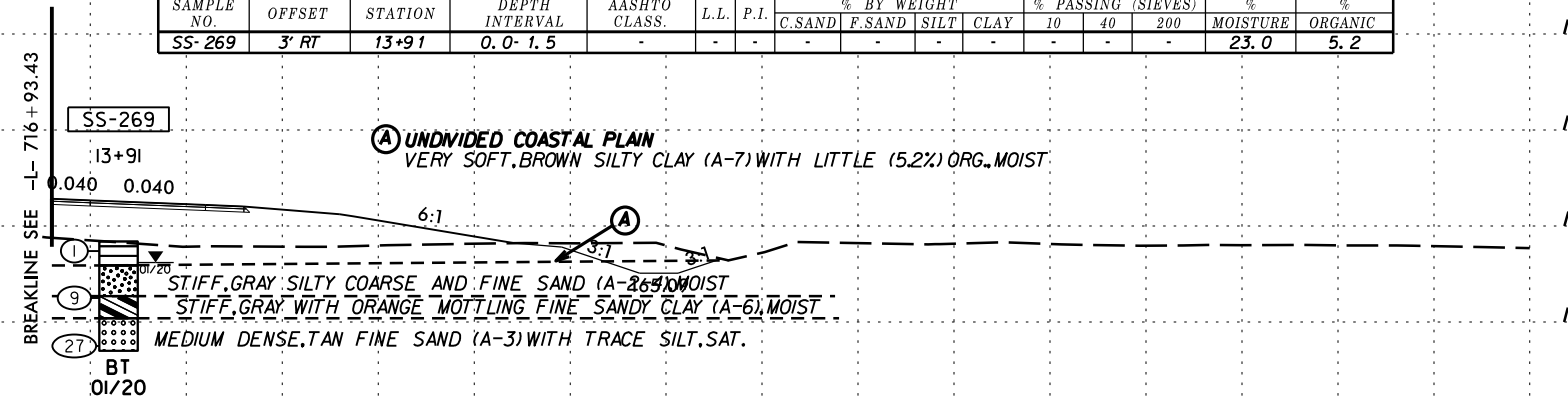
170

160

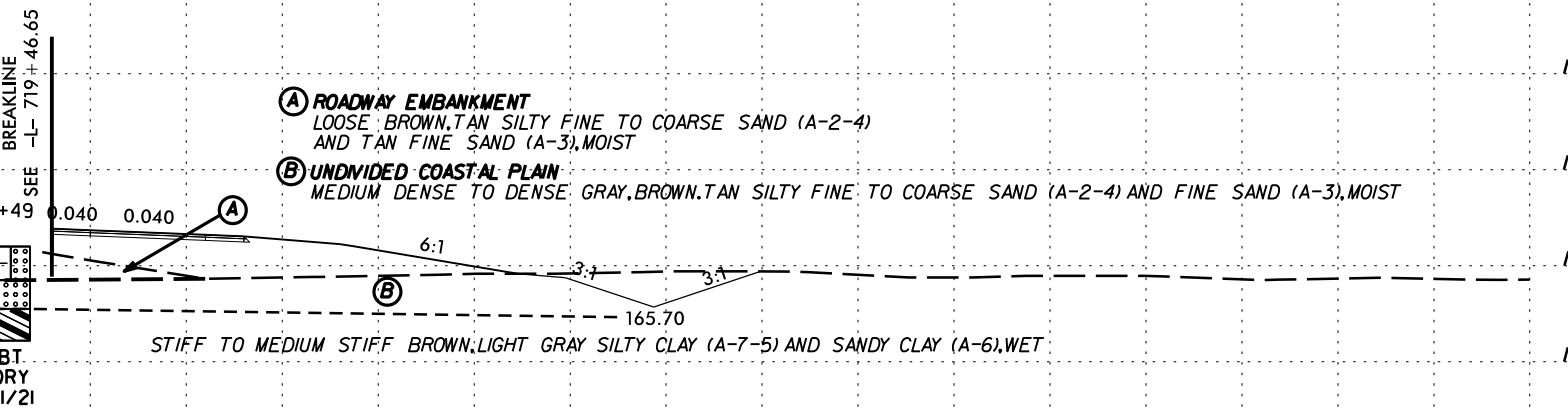
150

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-269	3' RT	13+91	0.0-1.5	-	-	-	-	-	-	-	-	-	-	-	23.0	5.2



14 + 00.00



11 + 50.00

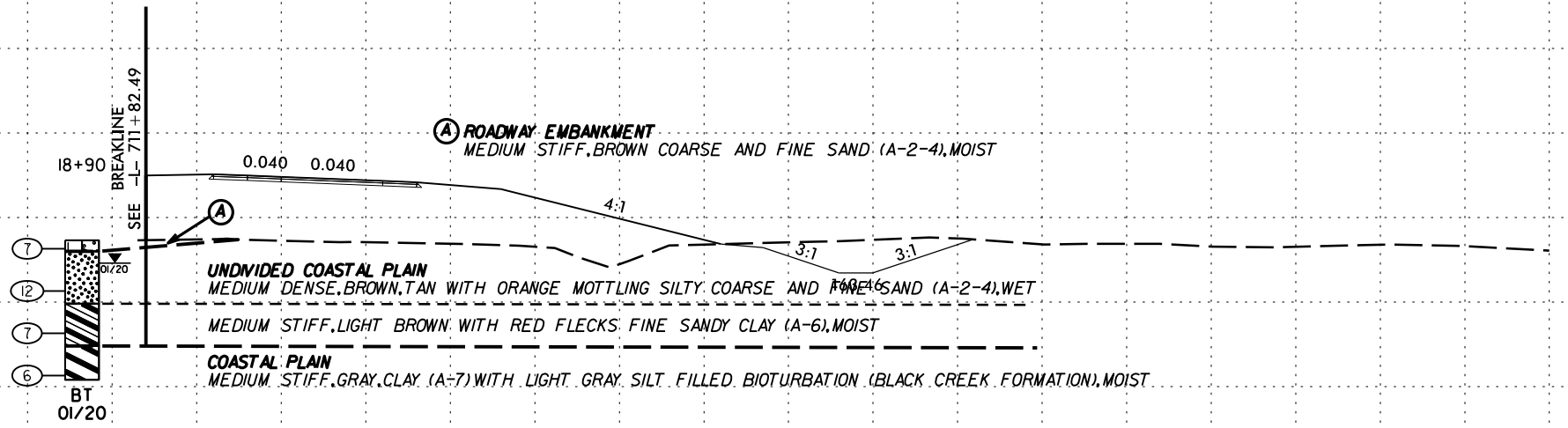
-YIBRPA-

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

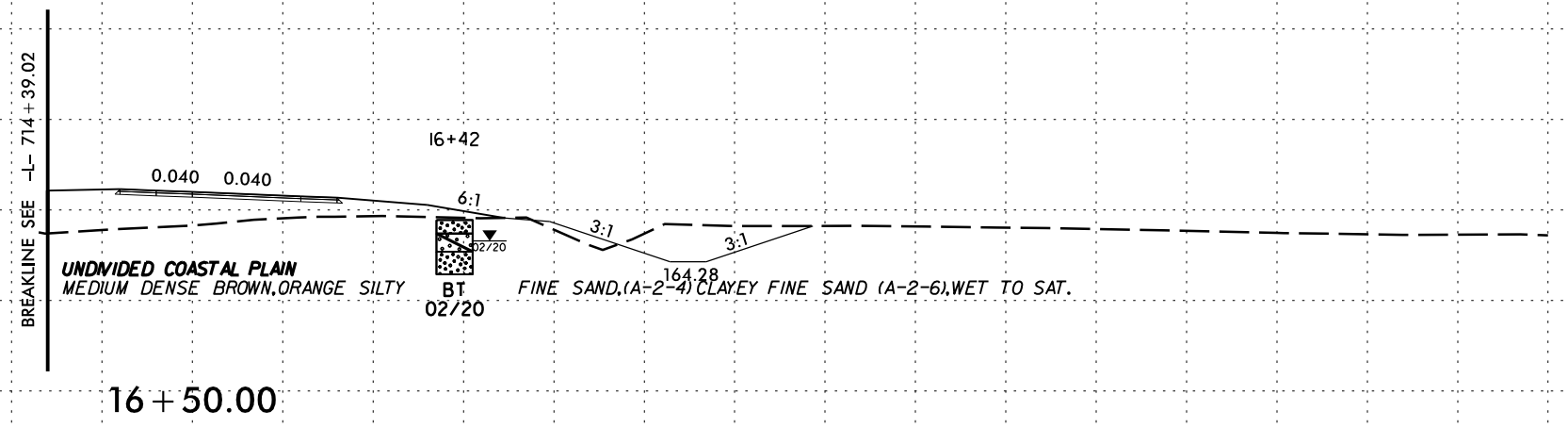
SYTIME
CON
ARRIVE
JULY

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

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

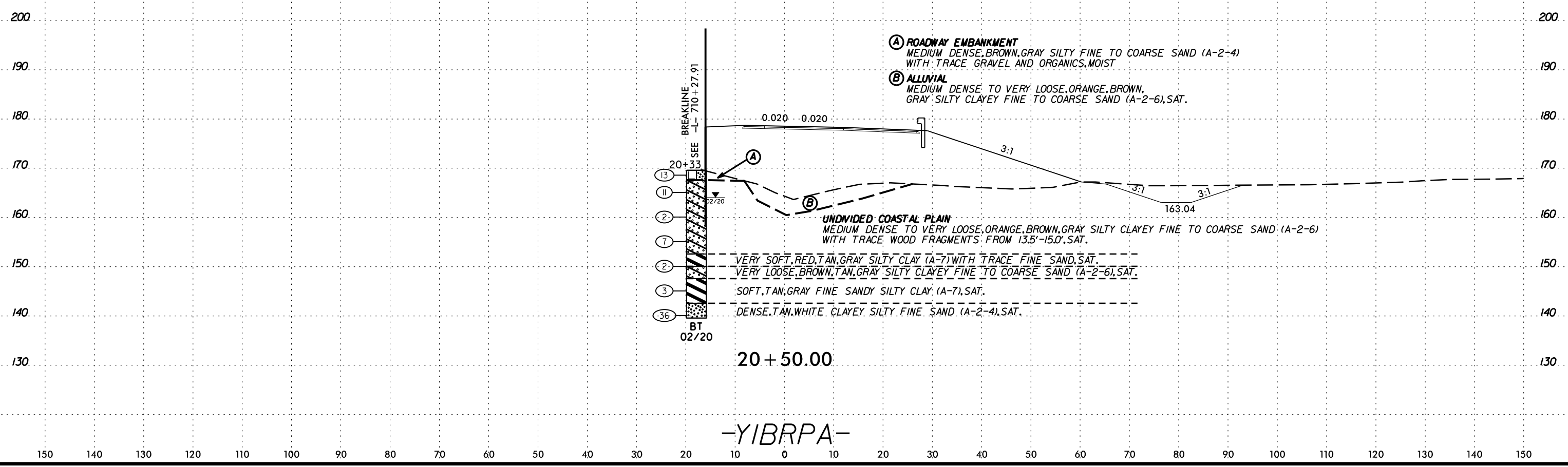
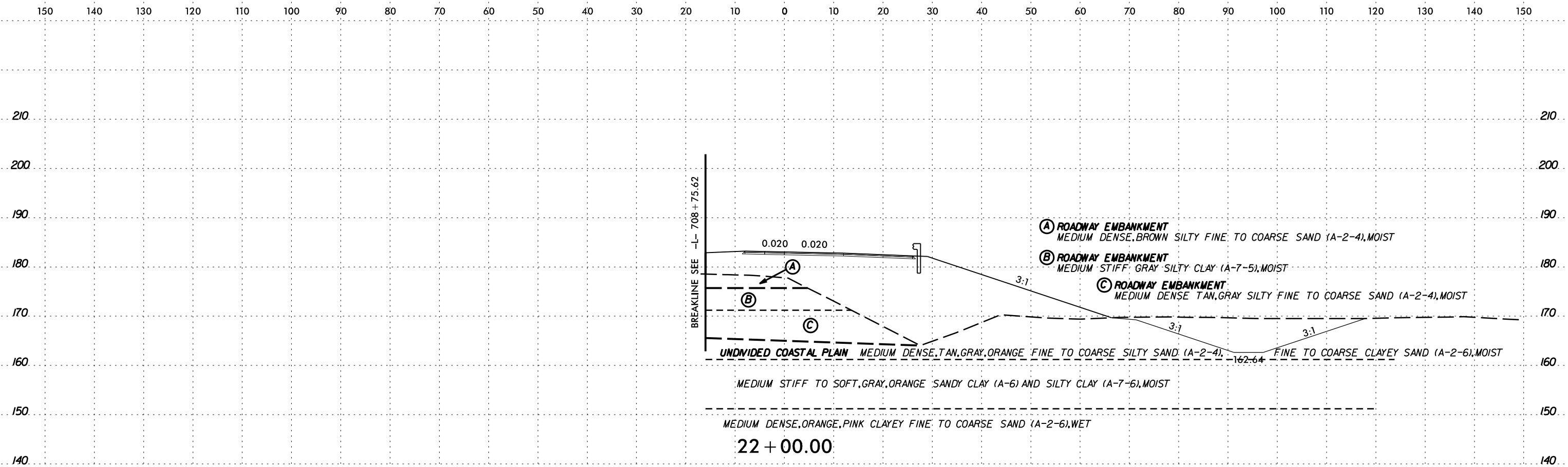


200 190 180 170 160 150 140 200 190 180 170 160 150 140



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

-YIBRPA-



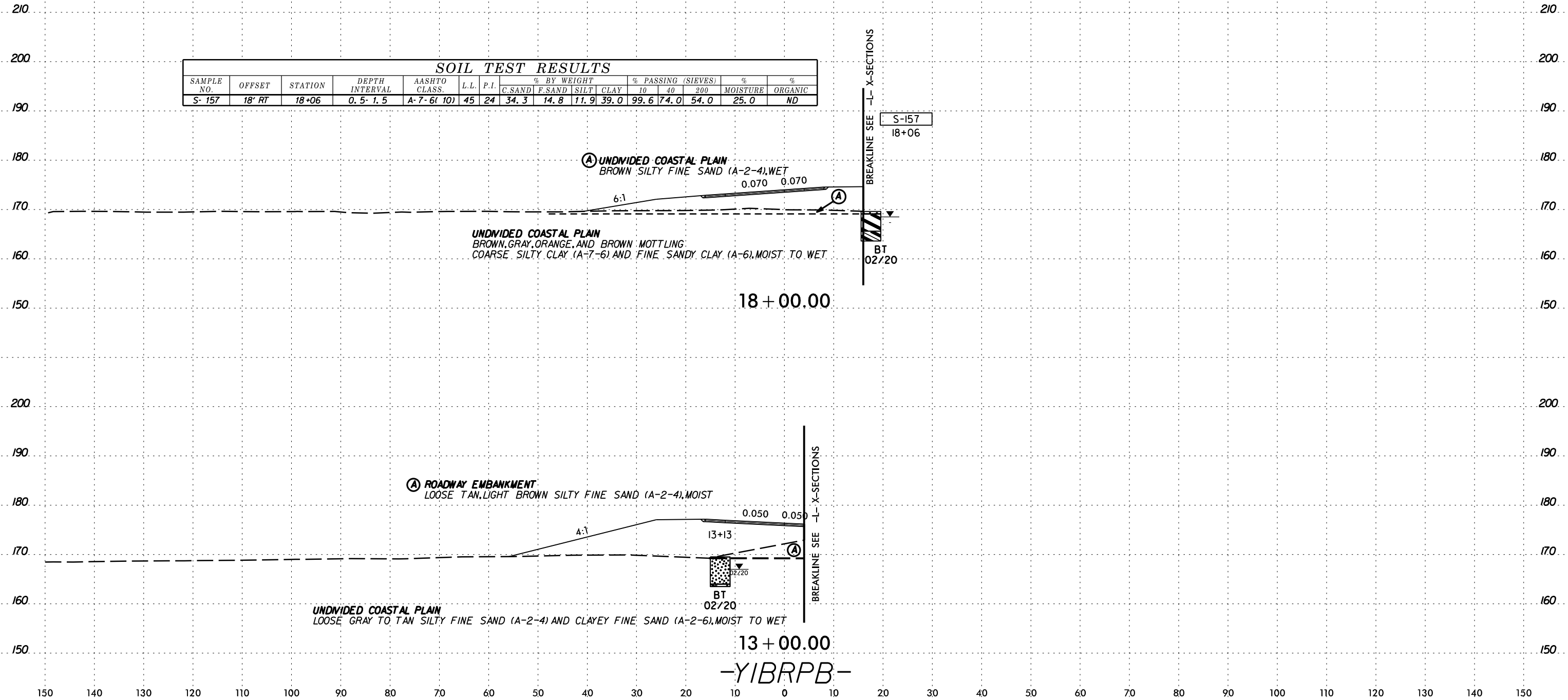
-YIBRPA-

SCALE: 1"=20'

6/23/16

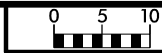
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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-157	18' RT	18+06	0.5-1.5	A-7-6(10)	45	24	34.3	14.8	11.9	39.0	99.6	74.0	54.0	25.0	ND

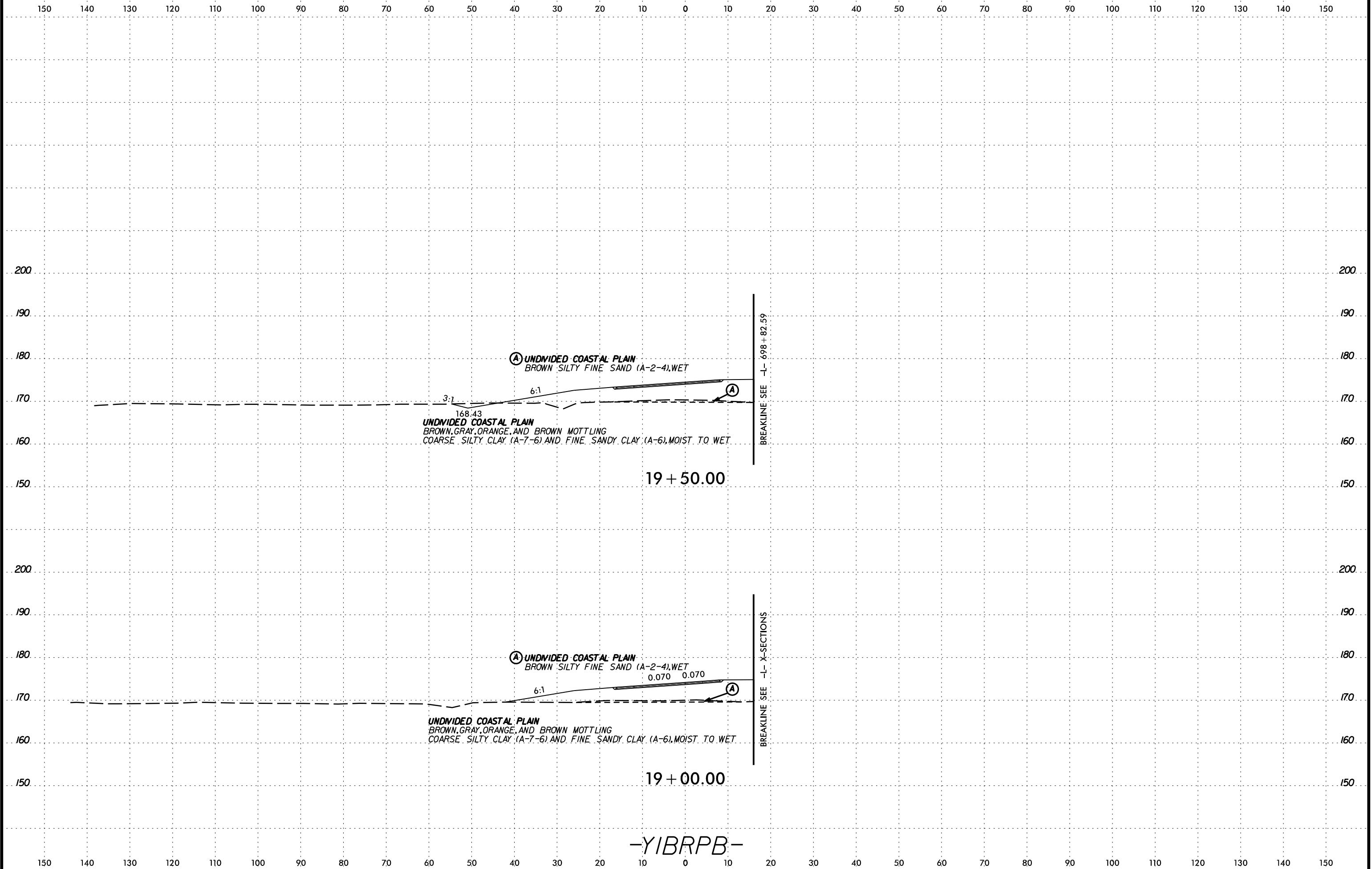


SCHEMATIC CONSTRUCTION

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
I-5987B	291



3:1 6:1
 168.43
UNDIVIDED COASTAL PLAIN
 BROWN SILTY FINE SAND (A-2-4), WET
UNDIVIDED COASTAL PLAIN
 BROWN, GRAY, ORANGE, AND BROWN MOTTLING
 COARSE SILTY CLAY (A-7-6) AND FINE SANDY CLAY (A-6), MOIST TO WET

19 + 50.00

BREAKLINE SEE -L- 698+82.59

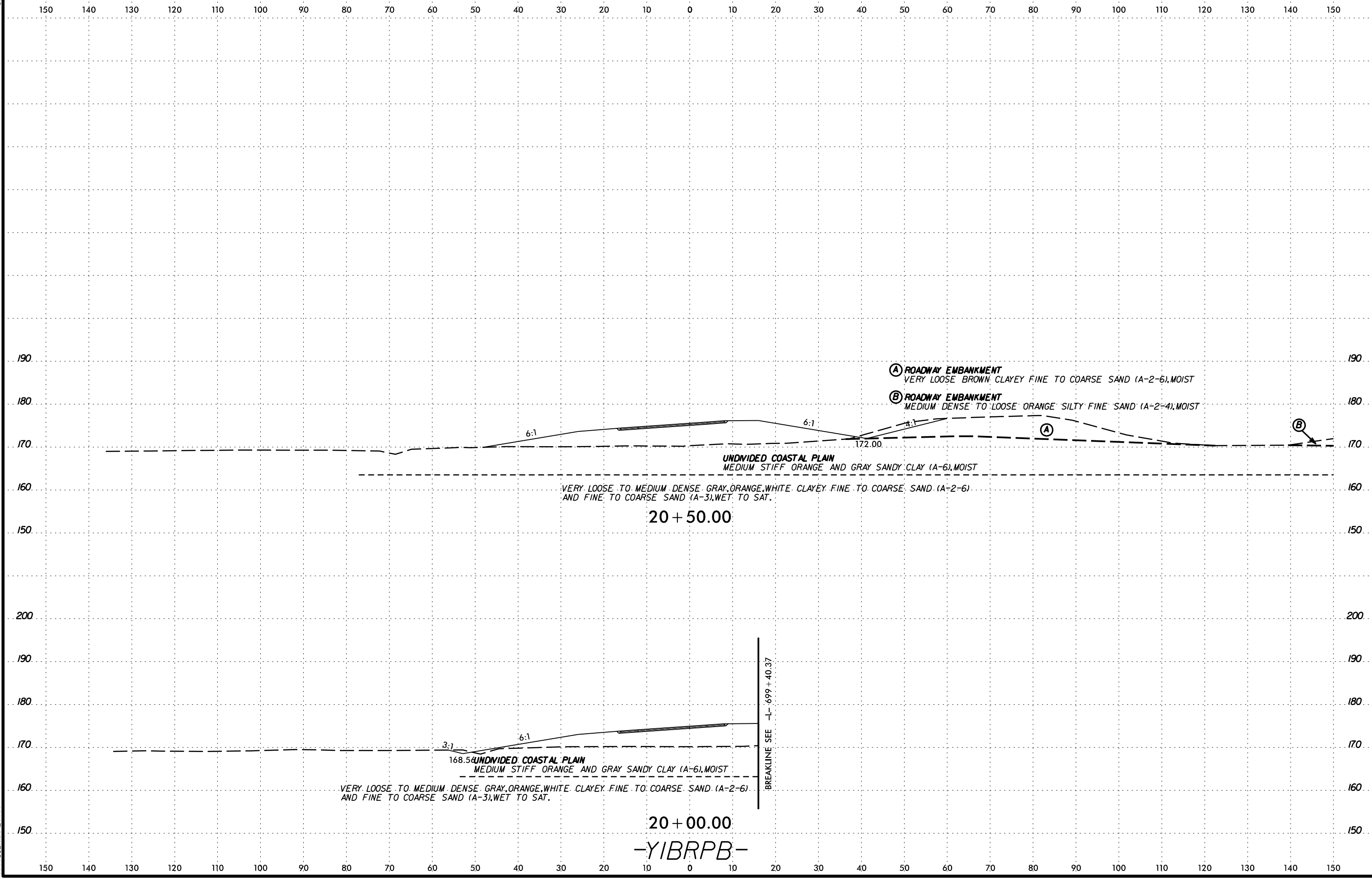
6:1
 0.070 0.070
UNDIVIDED COASTAL PLAIN
 BROWN SILTY FINE SAND (A-2-4), WET
UNDIVIDED COASTAL PLAIN
 BROWN, GRAY, ORANGE, AND BROWN MOTTLING
 COARSE SILTY CLAY (A-7-6) AND FINE SANDY CLAY (A-6), MOIST TO WET

19 + 00.00

BREAKLINE SEE -L- X-SECTIONS

-YIBRPB-

6/23/16



SYTIME
CON
JUL
ARRIVE

20 + 50.00
-YIBRPB-

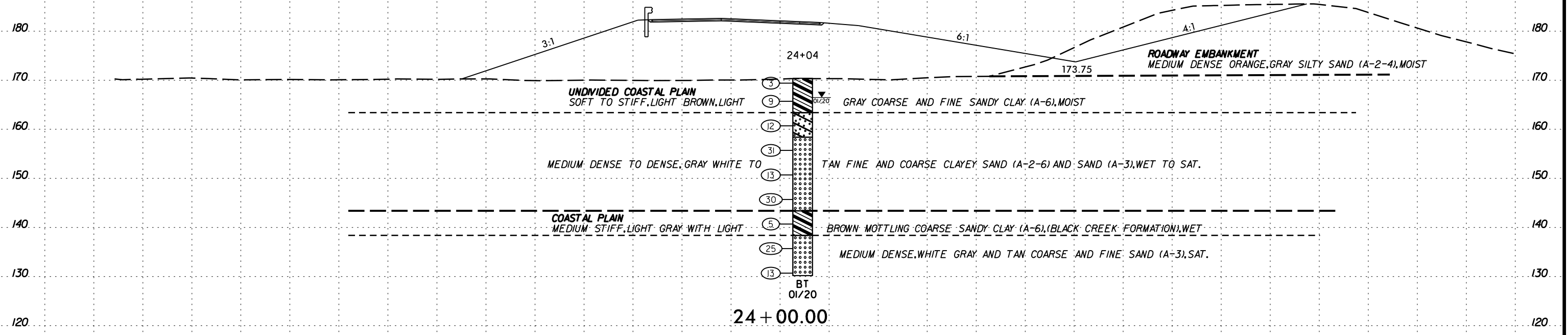
20 + 00.00
-YIBRPB-

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

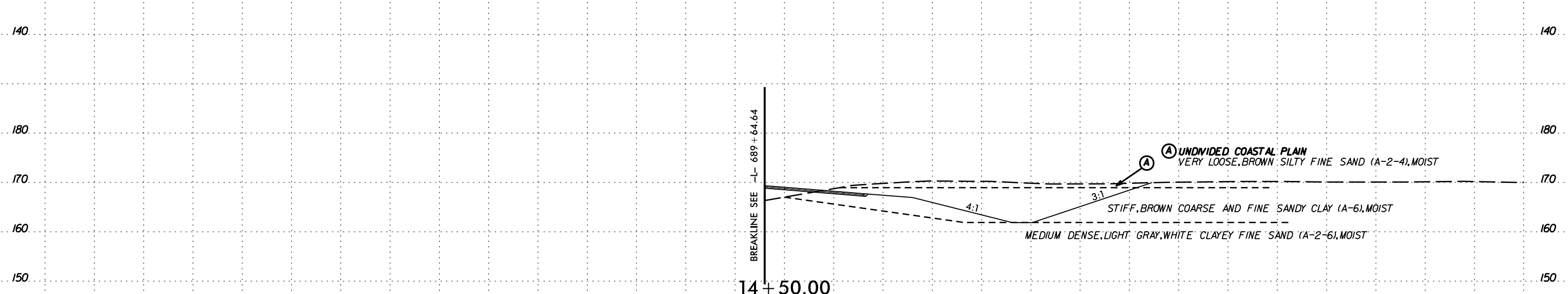
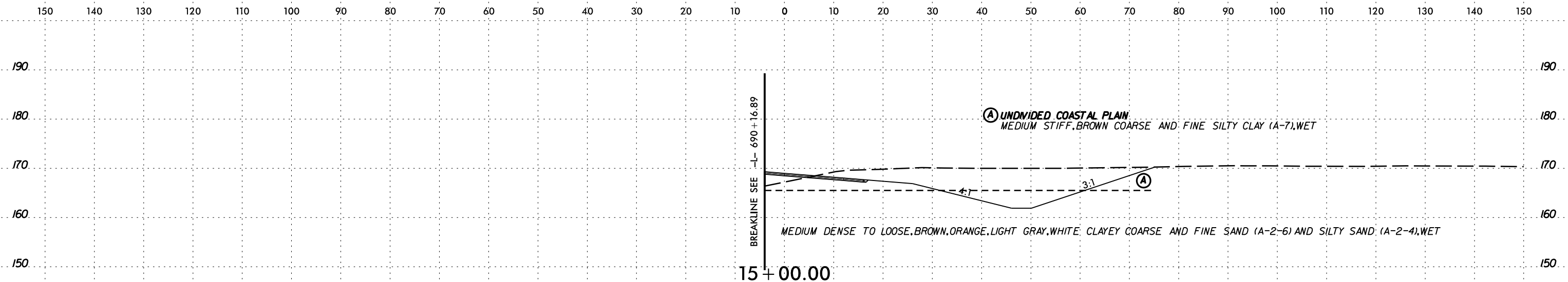
SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-207	5' RT	24+04	0.0- 1.5	A-6(8)	36	20	25.4	20.4	16.1	38.1	99.0	84.0	57.0	-	ND
SS-208	5' RT	24+04	8.7- 10.2	A-2-6(2)	40	24	50.0	22.3	4.9	22.8	98.8	69.0	30.0	-	ND
SS-209	5' RT	24+04	13.7- 15.2	A-3(0)	NP	NP	42.6	49.7	1.2	6.5	99.8	80.0	9.0	-	ND
SS-210	5' RT	24+04	18.7- 20.2	A-3(0)	NP	NP	79.7	15.4	2.0	2.8	100.0	51.0	6.0	-	ND
SS-211	5' RT	24+04	28.7- 30.2	A-6(10)	37	19	22.7	16.1	26.5	34.7	96.3	87.0	64.0	-	ND
SS-212	5' RT	24+04	33.7- 35.2	A-3(0)	NP	NP	55.4	37.8	2.0	4.8	99.7	78.0	8.0	-	ND

- SS-207
- SS-208
- SS-209
- SS-210
- SS-211
- SS-212



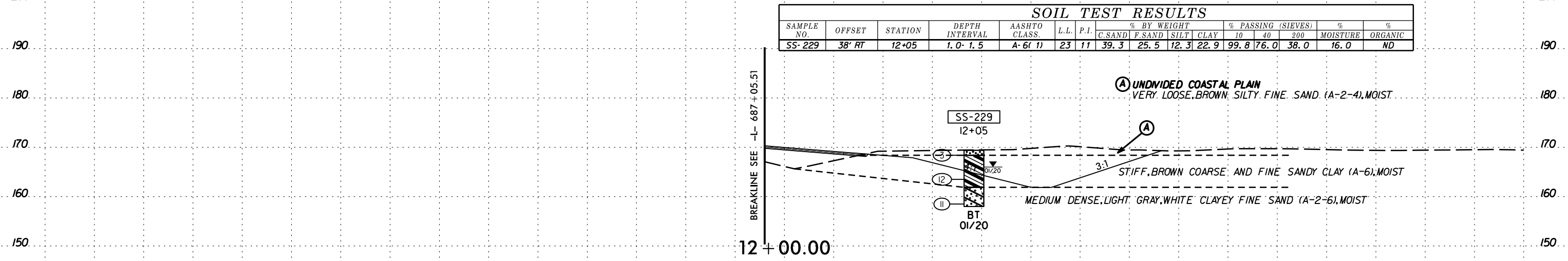
-YIBRPB-

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

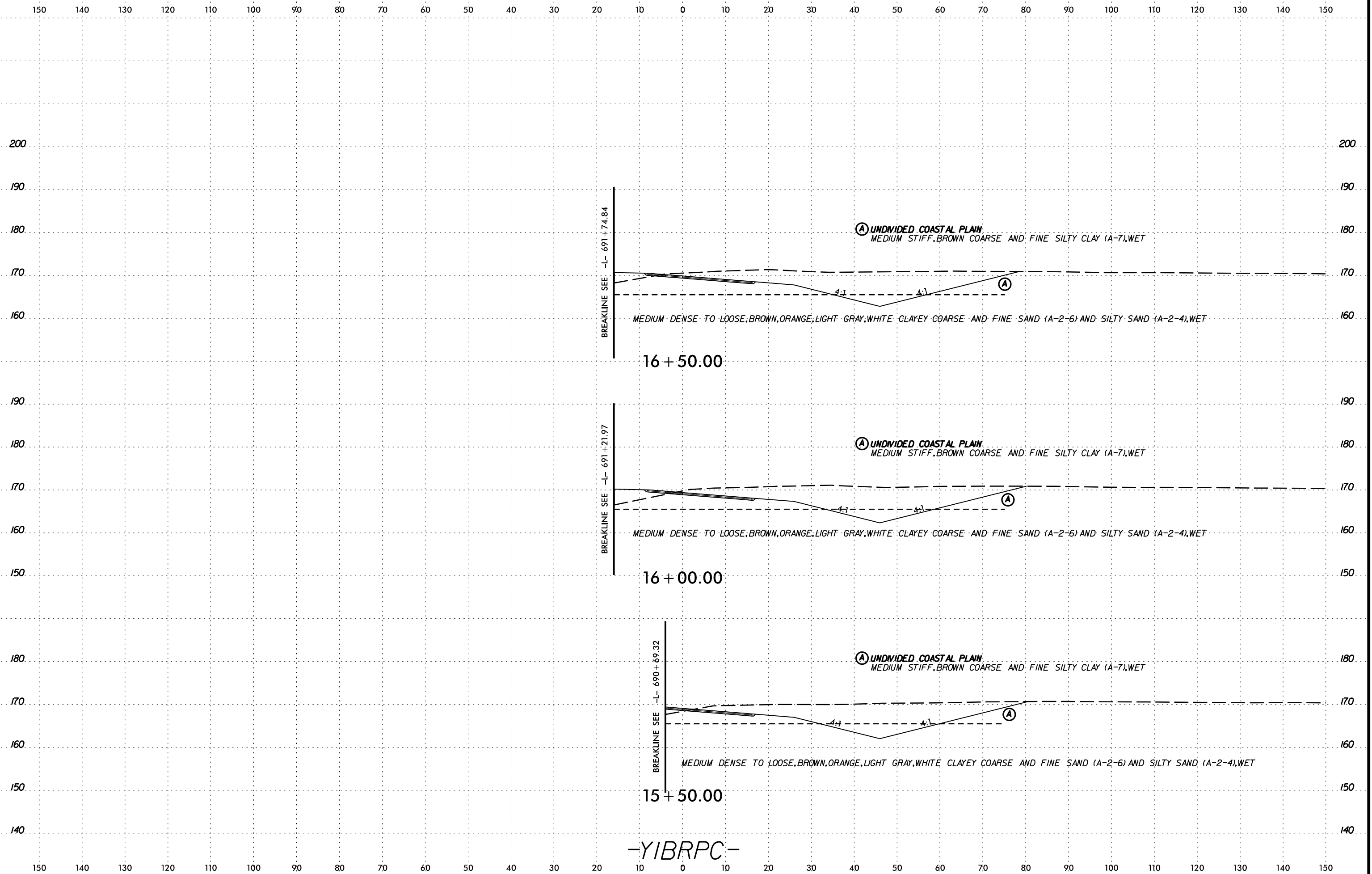
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-229	38' RT	12+05	1.0- 1.5	A-6(1)	23	11	39.3	25.5	12.3	22.9	99.8	76.0	38.0	16.0	ND



-YIBRPC-

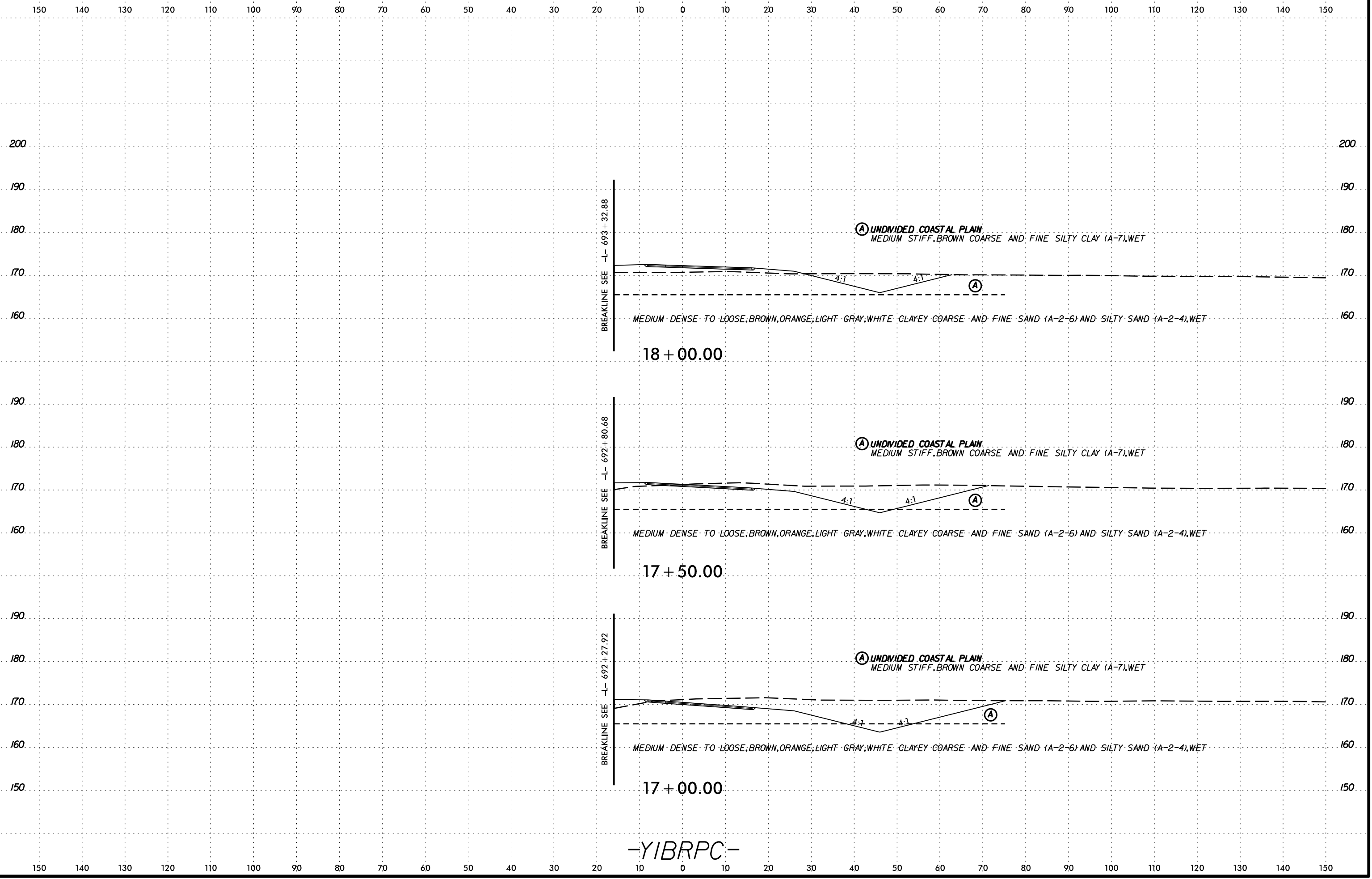
DATE PLOTTED: 06/23/16
SCALE: 1"=10'
DRAWN BY: J. BARRANE

6/23/16
SYTIME
CON
ARRIVE



-YIBRPC-

6/23/16



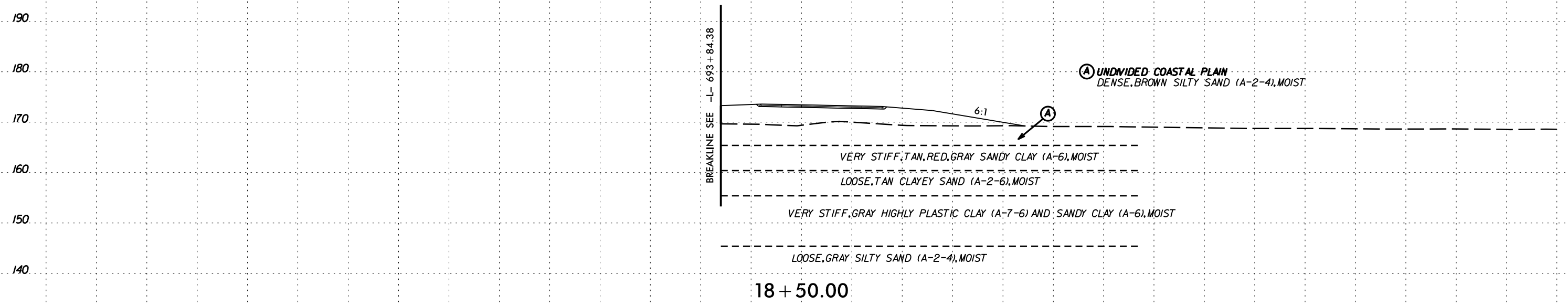
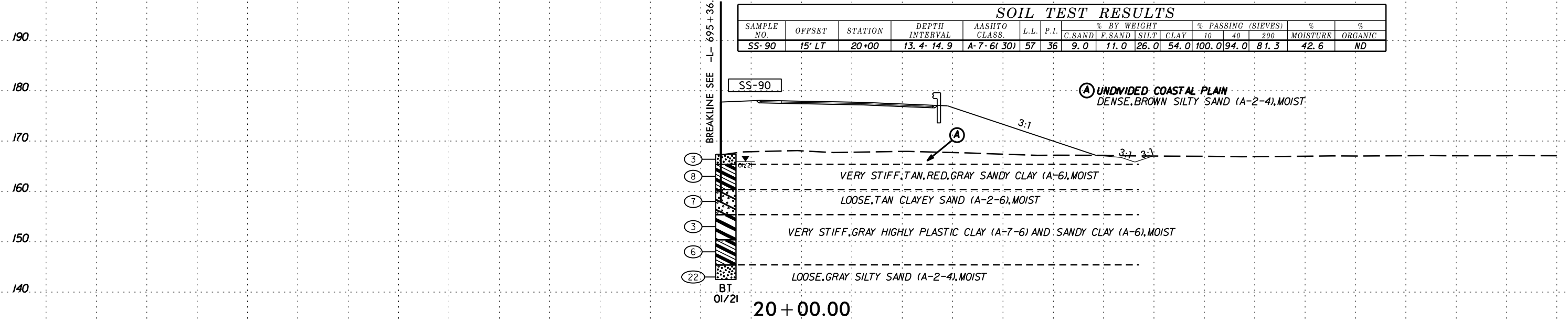
-YIBRPC-

SYTIME
CON
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RNAME



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

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



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

SCHEMATIC CROSS SECTION OF YIBRPC

-YIBRPC-

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

200 200

190 190

180 180

170 170

160 160

150 150

200 200

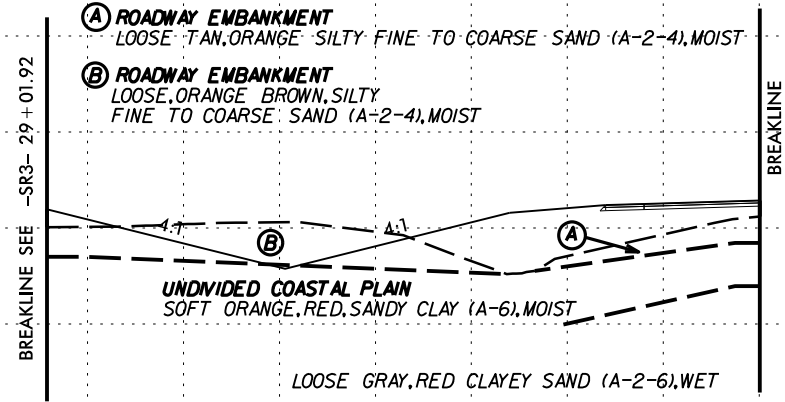
190 190

180 180

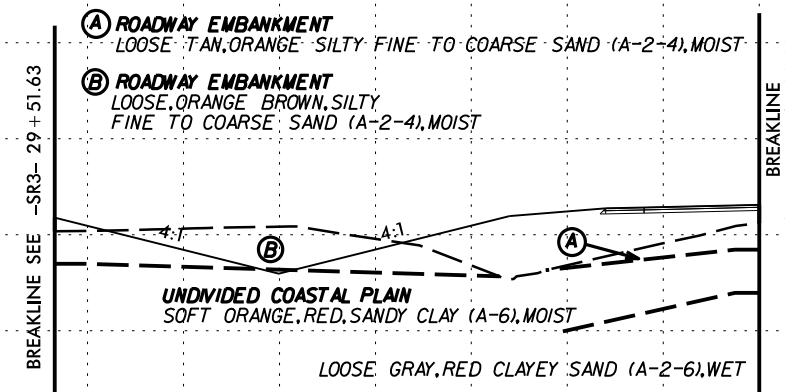
170 170

160 160

150 150



10 + 50.00



10 + 00.00

-YIBRPD-

SYTIME
CON
JUL
BRNAVE

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

210 210

200 200

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-19	1' LT	11+50	3.3-4.8	A-6(4)	40	15	35.0	21.0	9.0	35.0	99.0	75.0	47.7	23.2	ND

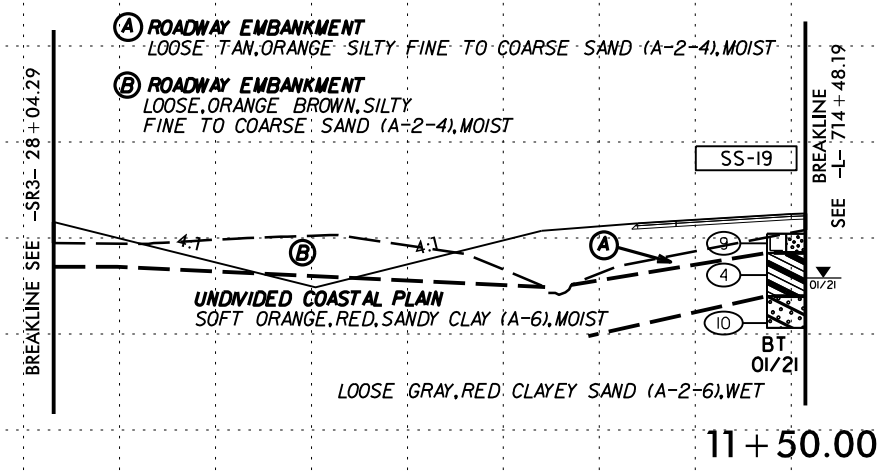
190 190

180 180

170 170

160 160

150 150



200 200

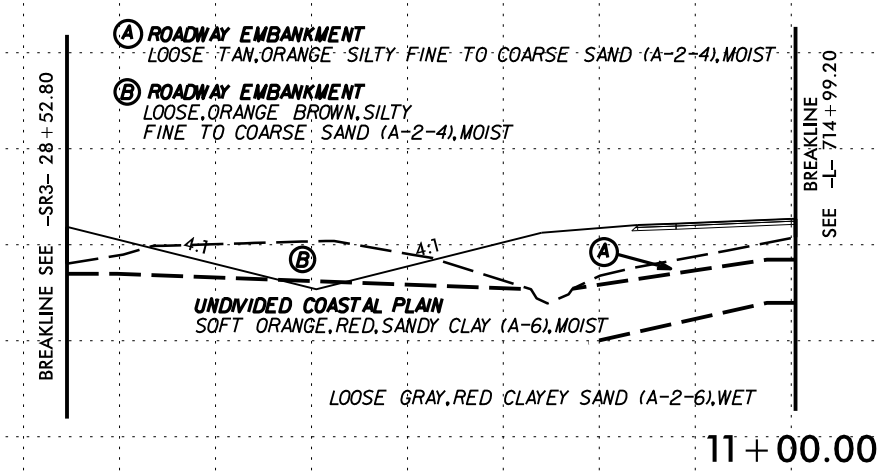
190 190

180 180

170 170

160 160

150 150



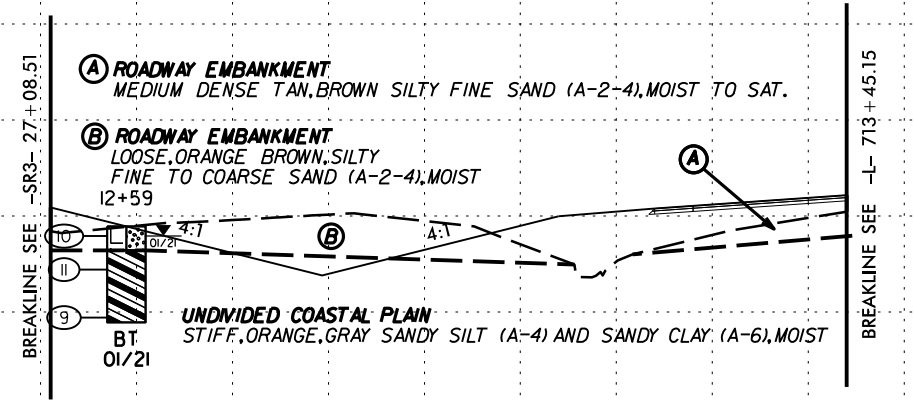
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-YIBRPD-

SYSTEMS CONNECTIONS
 11000 JULESSAINE

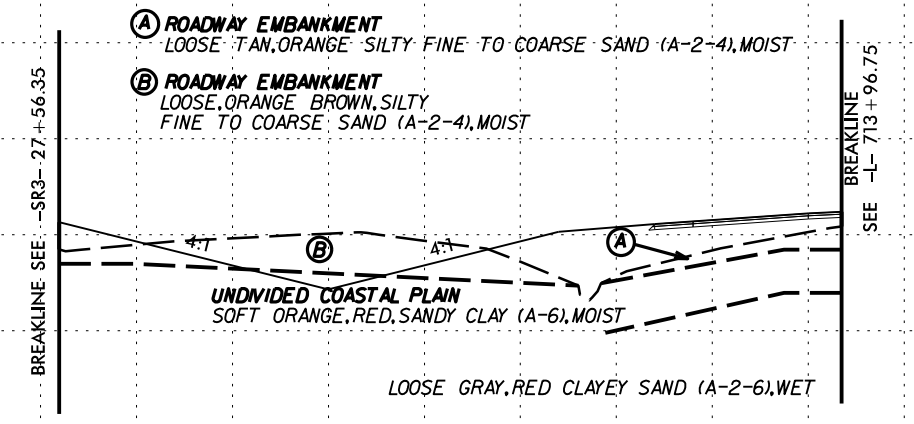
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200 190 180 170 160 150



12 + 50.00

200 190 180 170 160 150

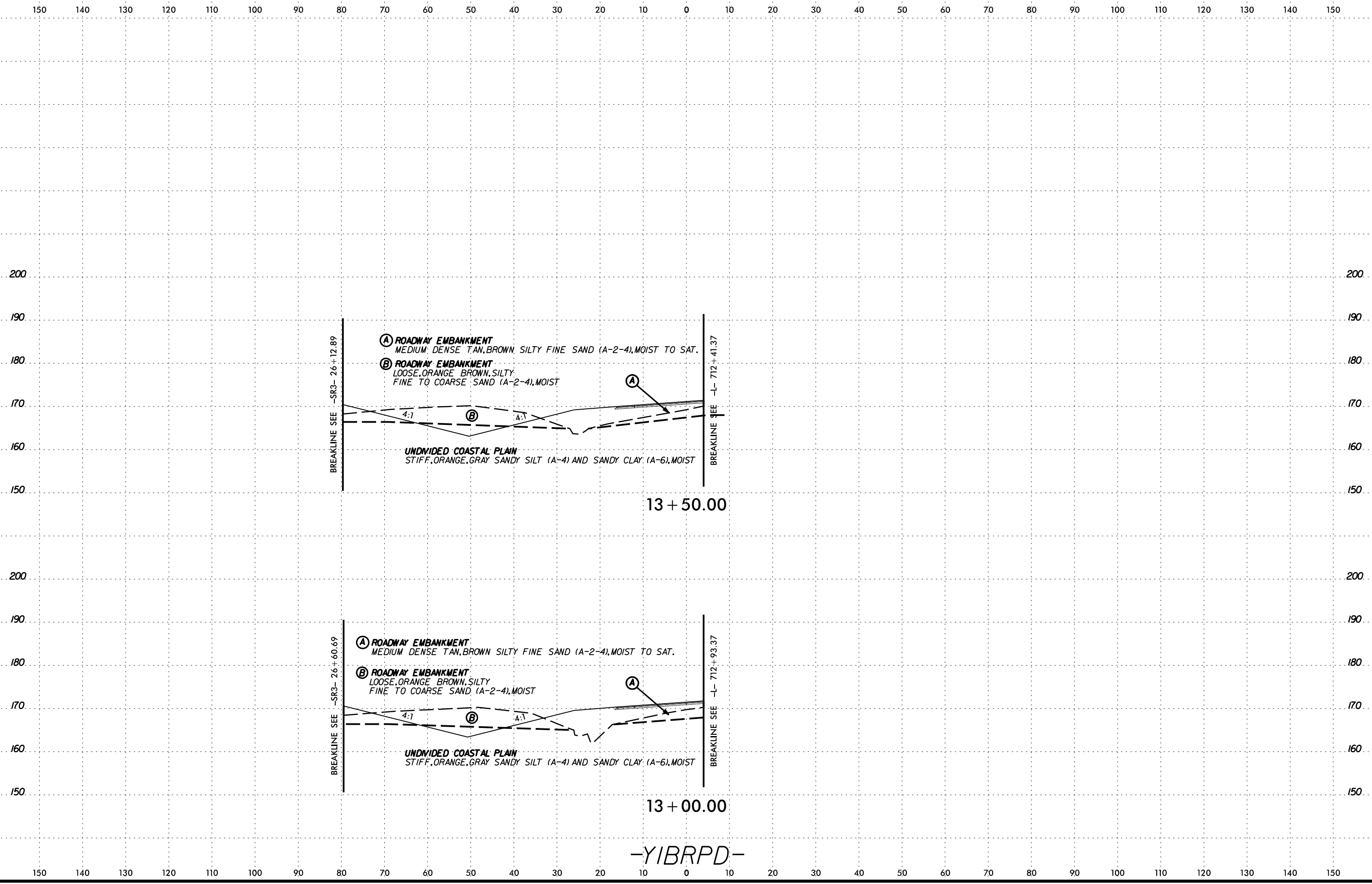


12 + 00.00

-YIBRPD-

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SYTIME
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JULY
BRNAVE



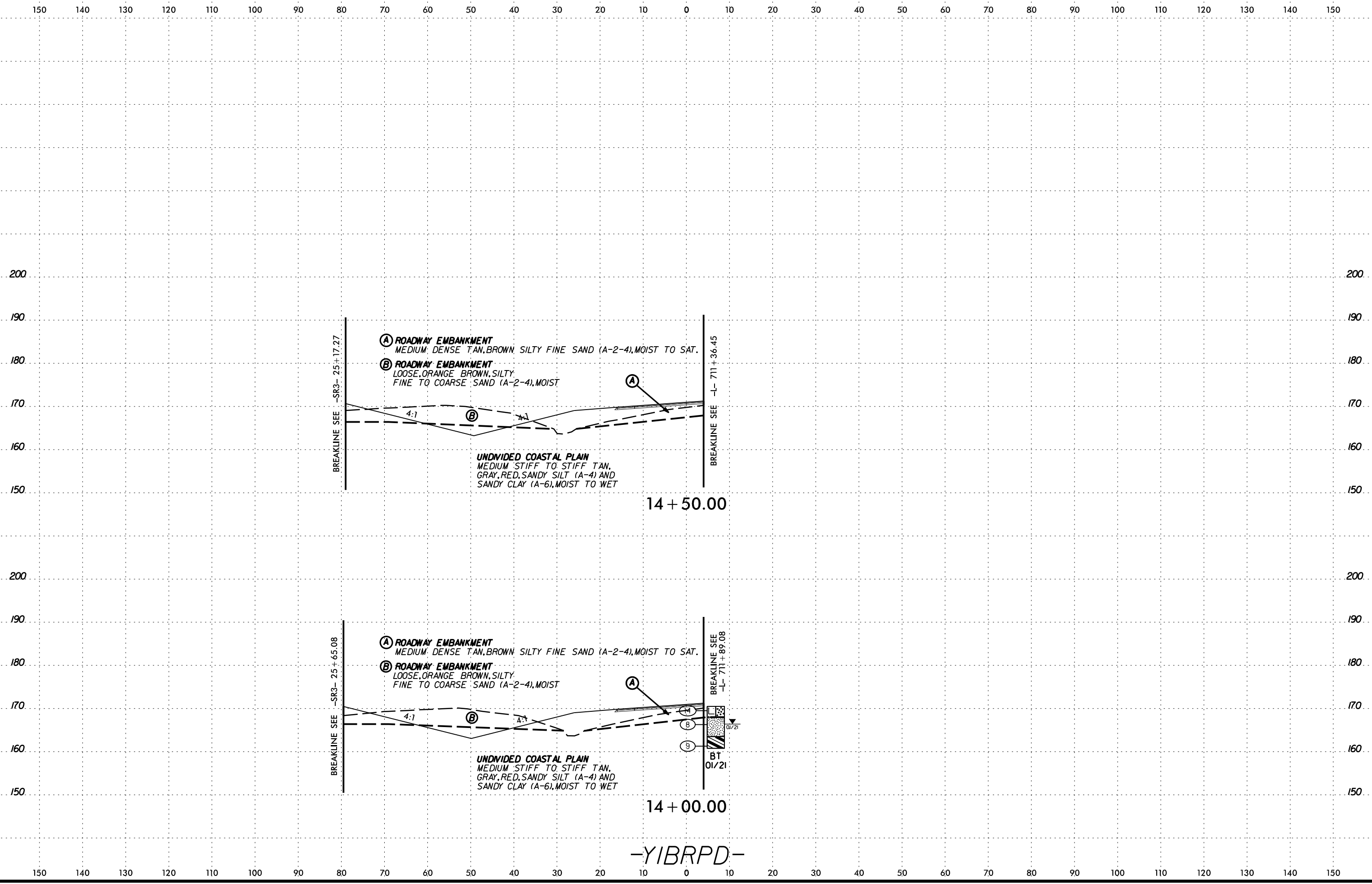
13 + 50.00

13 + 00.00

-YIBRPD-

SYTIME
CON
JUL
BRNAVE

6/23/16



BREAKLINE SEE -SR3- 25+17.27

BREAKLINE SEE -L- 711+36.45

- Ⓐ ROADWAY EMBANKMENT
MEDIUM DENSE TAN, BROWN SILTY FINE SAND (A-2-4), MOIST TO SAT.
- Ⓑ ROADWAY EMBANKMENT
LOOSE, ORANGE BROWN, SILTY
FINE TO COARSE SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
MEDIUM STIFF TO STIFF TAN,
GRAY, RED, SANDY SILT (A-4) AND
SANDY CLAY (A-6), MOIST TO WET

14 + 50.00

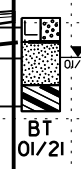
BREAKLINE SEE -SR3- 25+65.08

BREAKLINE SEE -L- 711+89.08

- Ⓐ ROADWAY EMBANKMENT
MEDIUM DENSE TAN, BROWN SILTY FINE SAND (A-2-4), MOIST TO SAT.
- Ⓑ ROADWAY EMBANKMENT
LOOSE, ORANGE BROWN, SILTY
FINE TO COARSE SAND (A-2-4), MOIST

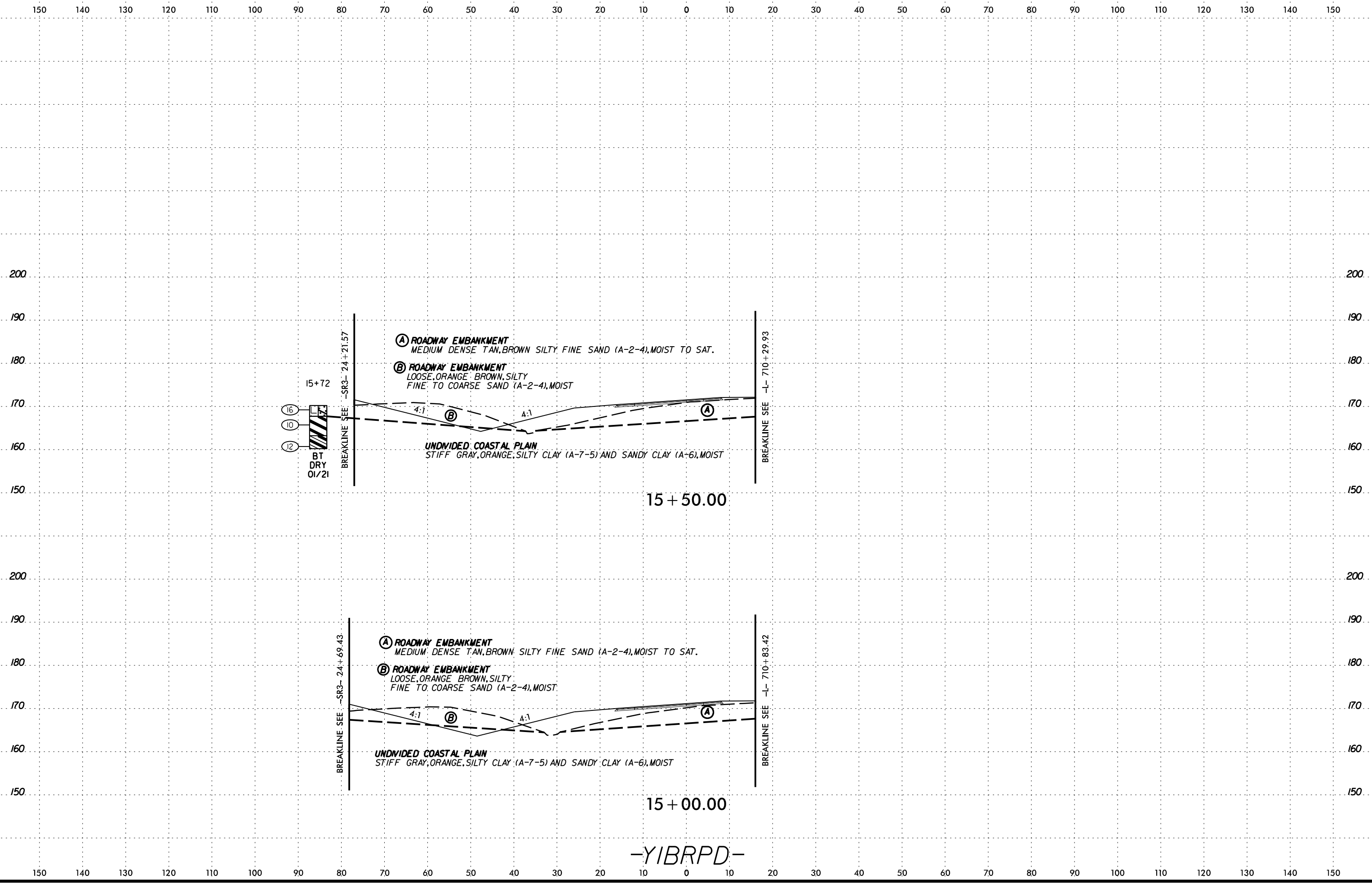
UNDIVIDED COASTAL PLAIN
MEDIUM STIFF TO STIFF TAN,
GRAY, RED, SANDY SILT (A-4) AND
SANDY CLAY (A-6), MOIST TO WET

14 + 00.00



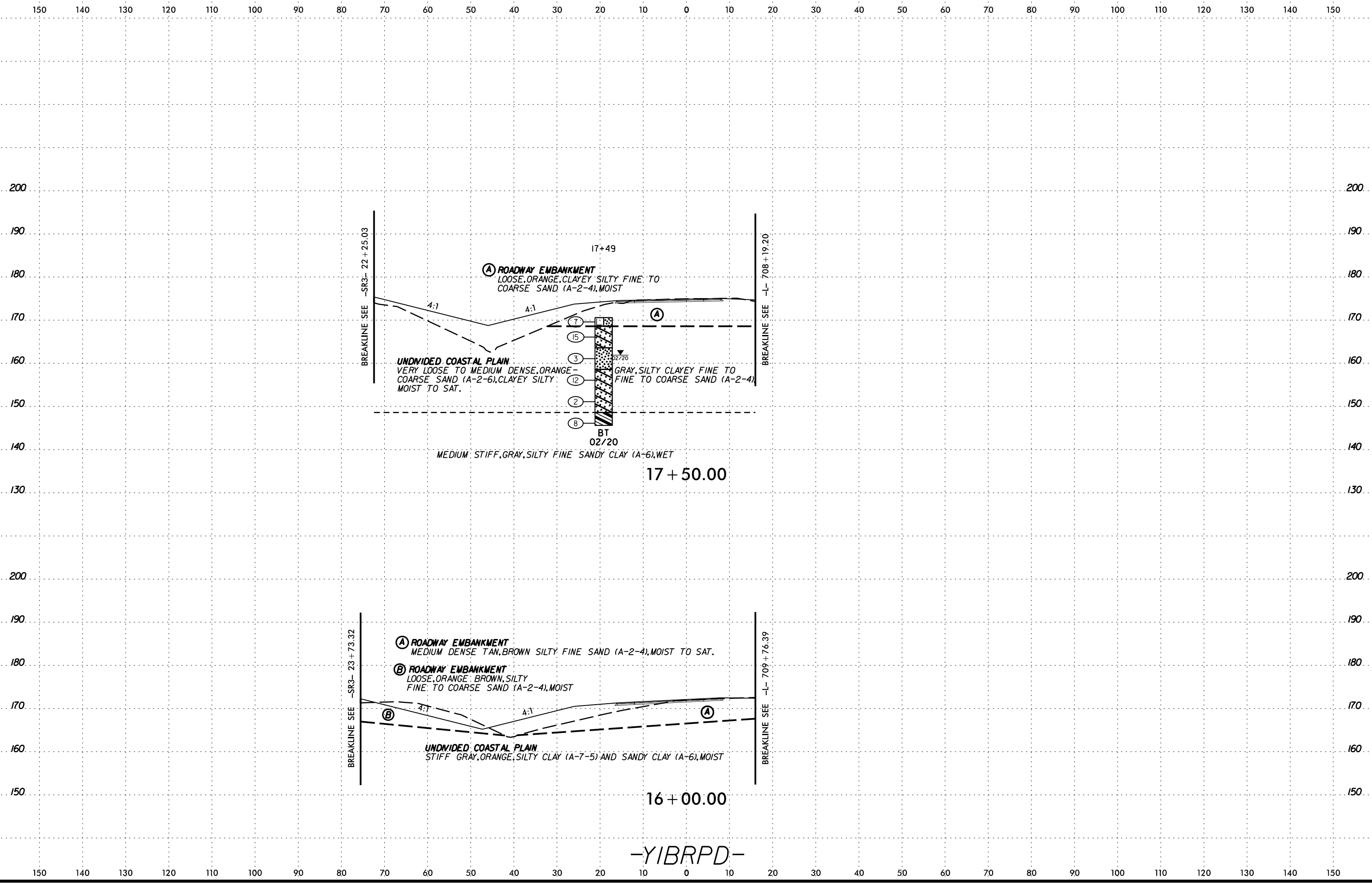
-YIBRPD-

SYTIME 02/23/16 10:00 AM 10/23/16 10:00 AM



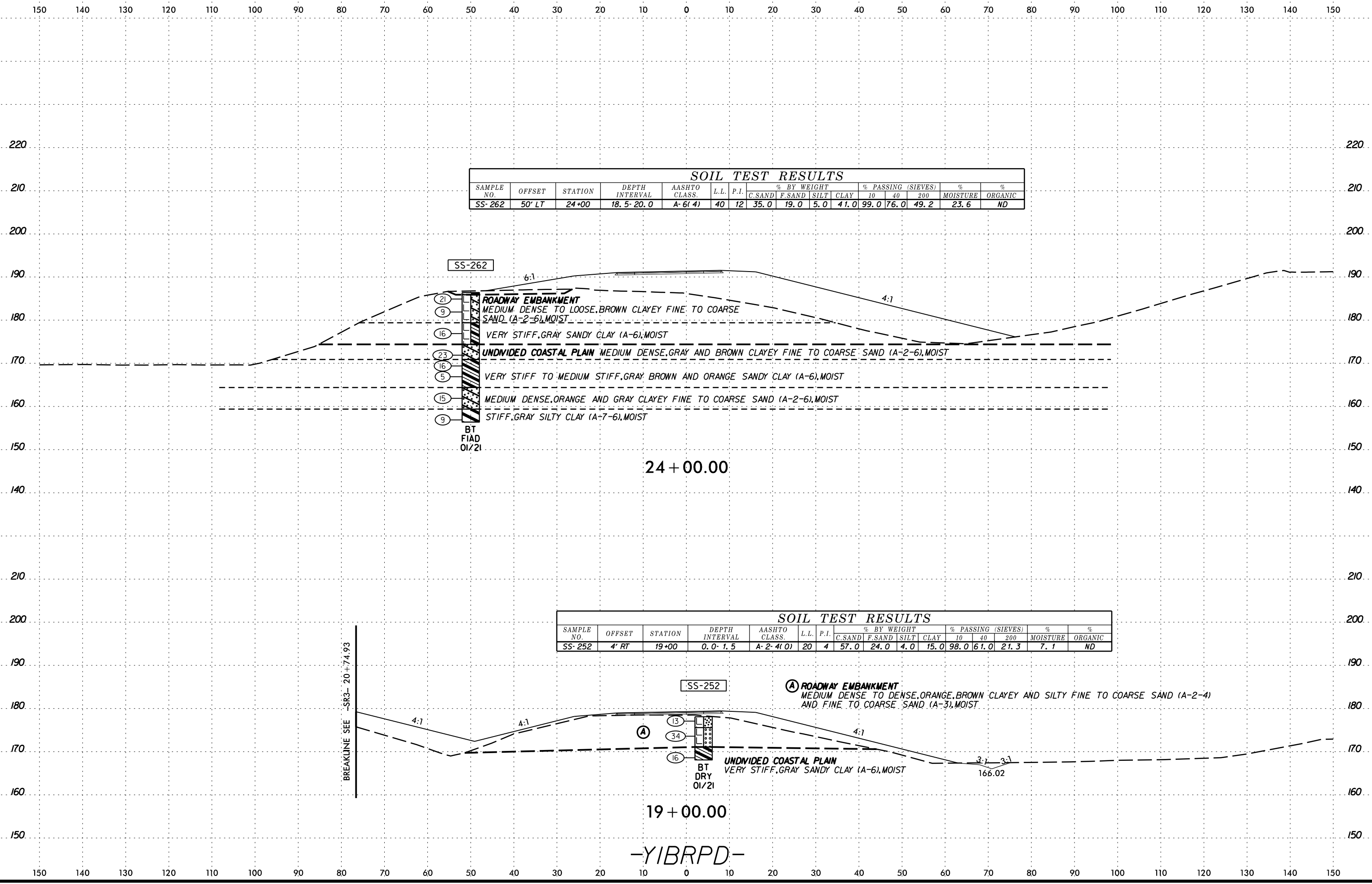
SYTIME
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6/23/16



SYTIME
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-YIBRPD-



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-262	50' LT	24+00	18.5-20.0	A-6(4)	40	12	35.0	19.0	5.0	41.0	99.0	76.0	49.2	23.6	ND

SOIL TEST RESULTS

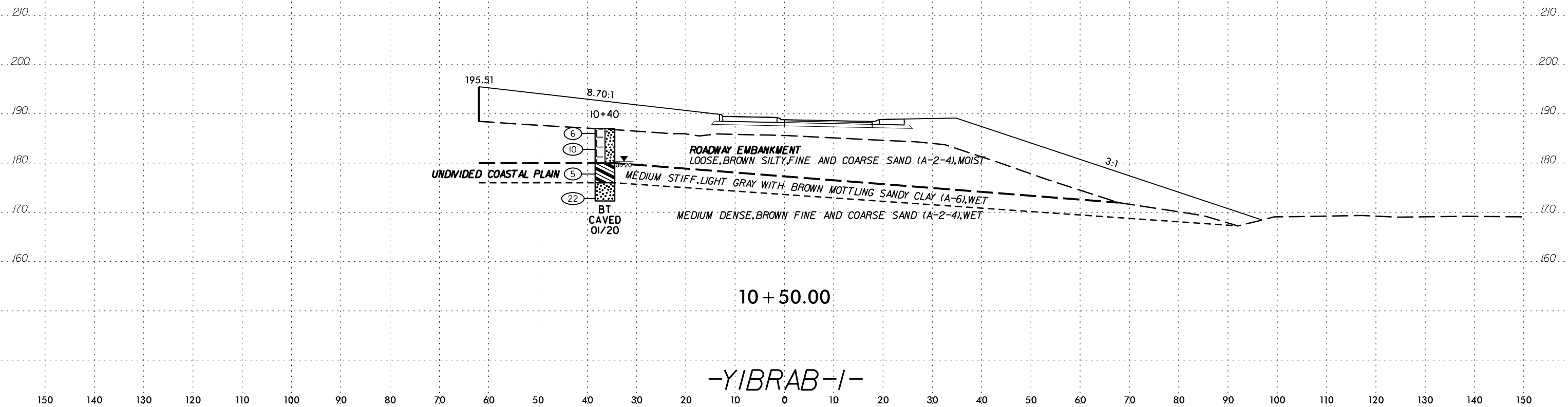
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	
							C.SAND	F.SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
SS-252	4' RT	19+00	0.0-1.5	A-2-4(0)	20	4	57.0	24.0	4.0	15.0	98.0	61.0	21.3	7.1	ND

BREAKLINE SEE -SR3-20+74.93

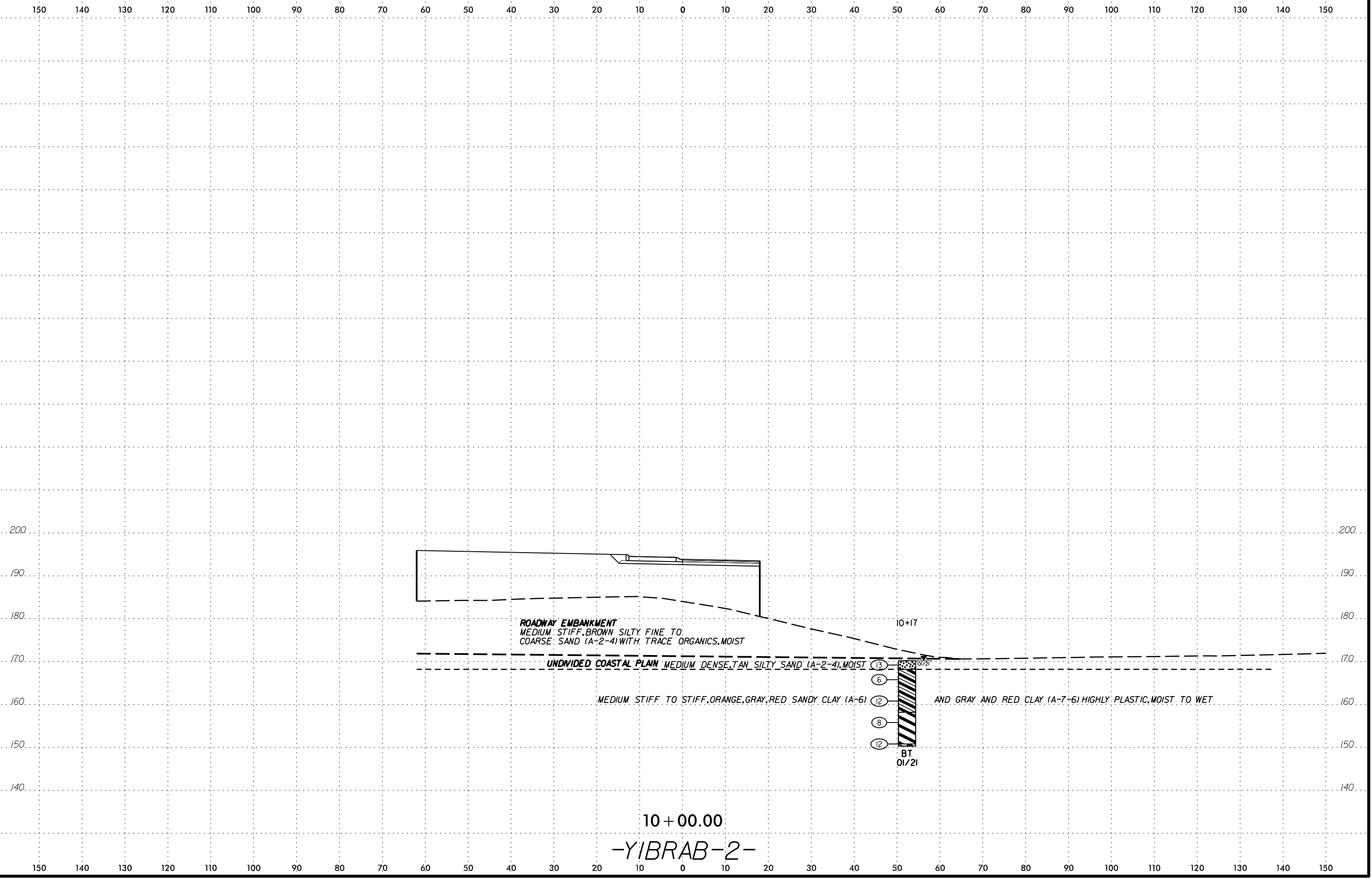
19 + 00.00
-YIBRPD-

SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT

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



DATE: 6/23/16
 DRAWN BY: [illegible]
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 PROJECT: I-5987B
 SHEET: 306



ROADWAY EMBANKMENT
 MEDIUM STIFF, BROWN SILTY FINE TO
 COARSE SAND (A-2-4) WITH TRACE ORGANICS, MOIST

UNDIVIDED COASTAL PLAIN MEDIUM DENSE, TAN SILTY SAND (A-2-4), MOIST

MEDIUM STIFF TO STIFF, ORANGE, GRAY, RED SANDY CLAY (A-6)

AND GRAY AND RED CLAY (A-7-6) HIGHLY PLASTIC, MOIST TO WET

10+17

BT 01/21

6

8

12

BT
01/21

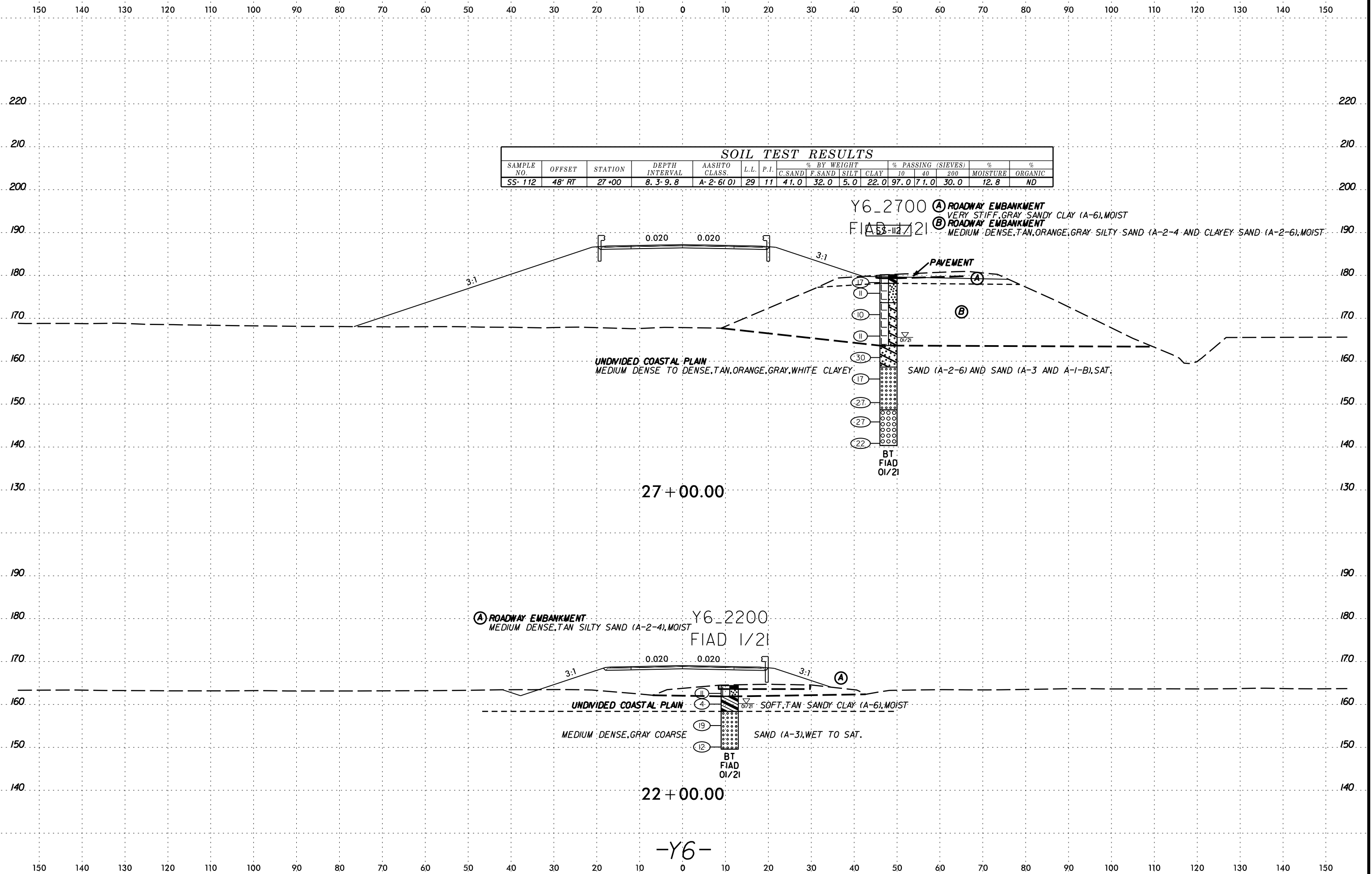
10 + 00.00

-YIBRAB-2-

DATE: 6/23/16
 DRAWN BY: [illegible]
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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-112	48' RT	27+00	8.3-9.8	A-2-6(0)	29	11	41.0	32.0	5.0	22.0	97.0	71.0	30.0	12.8	ND



Y6_2700 (A) ROADWAY EMBANKMENT
 VERY STIFF, GRAY SANDY CLAY (A-6), MOIST
 FIAD 1/21 (B) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN, ORANGE, GRAY, SILTY SAND (A-2-4 AND CLAYEY SAND (A-2-6), MOIST

UNDIVIDED COASTAL PLAIN
 MEDIUM DENSE TO DENSE, TAN, ORANGE, GRAY, WHITE CLAYEY

SAND (A-2-6) AND SAND (A-3 AND A-1-B), SAT.

(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN SILTY SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
 SOFT, TAN SANDY CLAY (A-6), MOIST

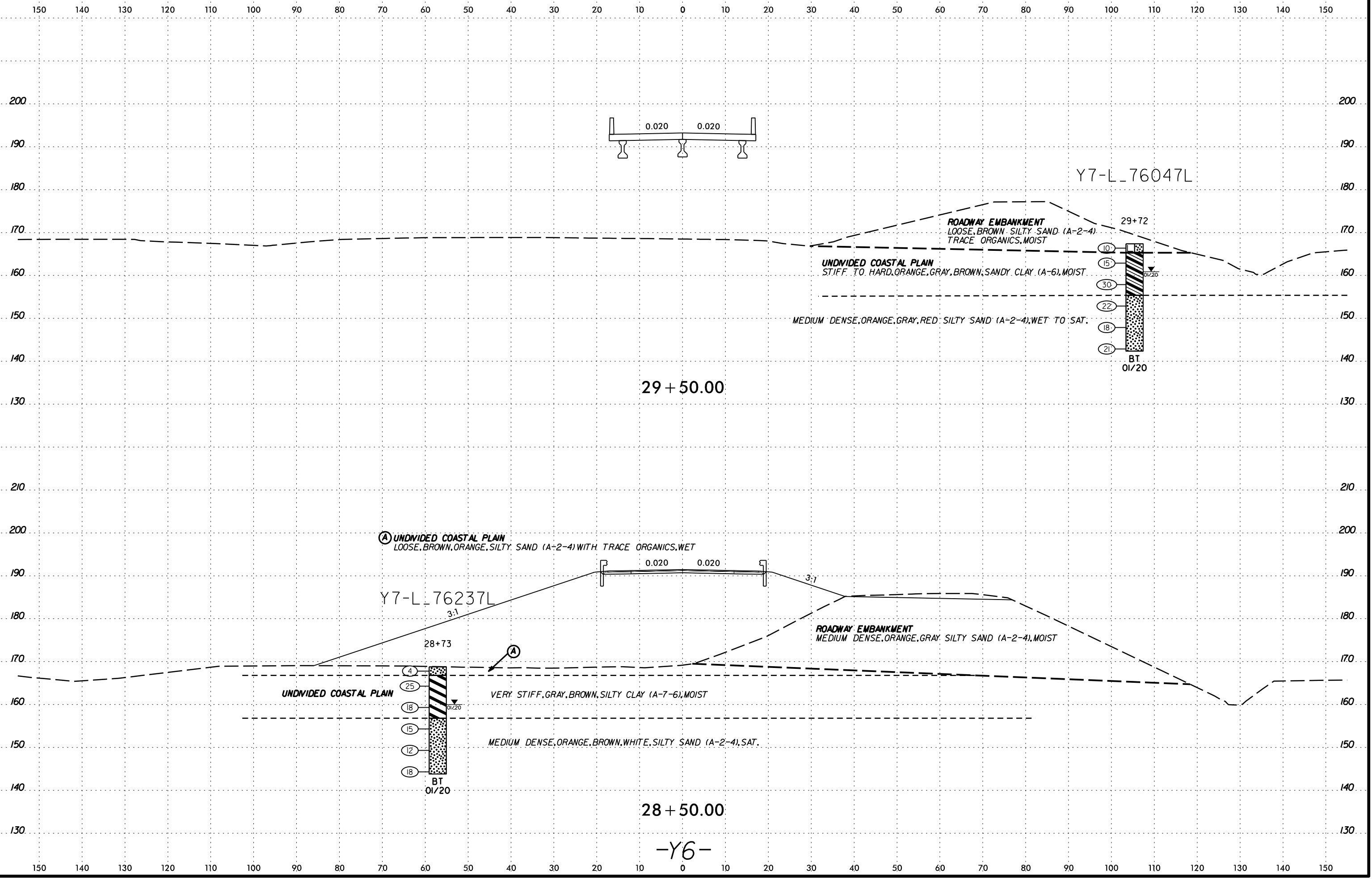
MEDIUM DENSE, GRAY COARSE SAND (A-3), WET TO SAT.

27 + 00.00

22 + 00.00

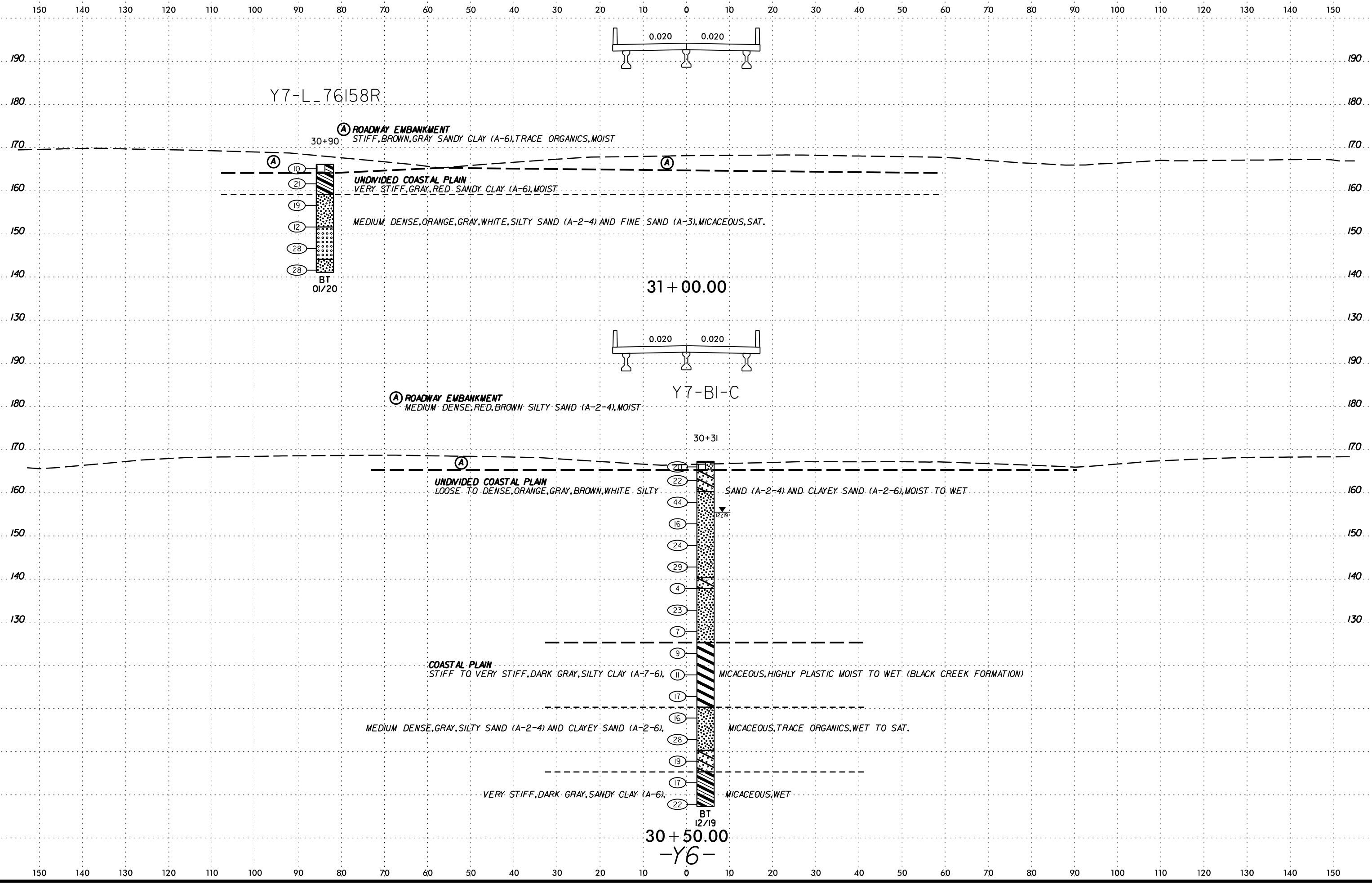
-Y6-

6/23/16



-Y6-

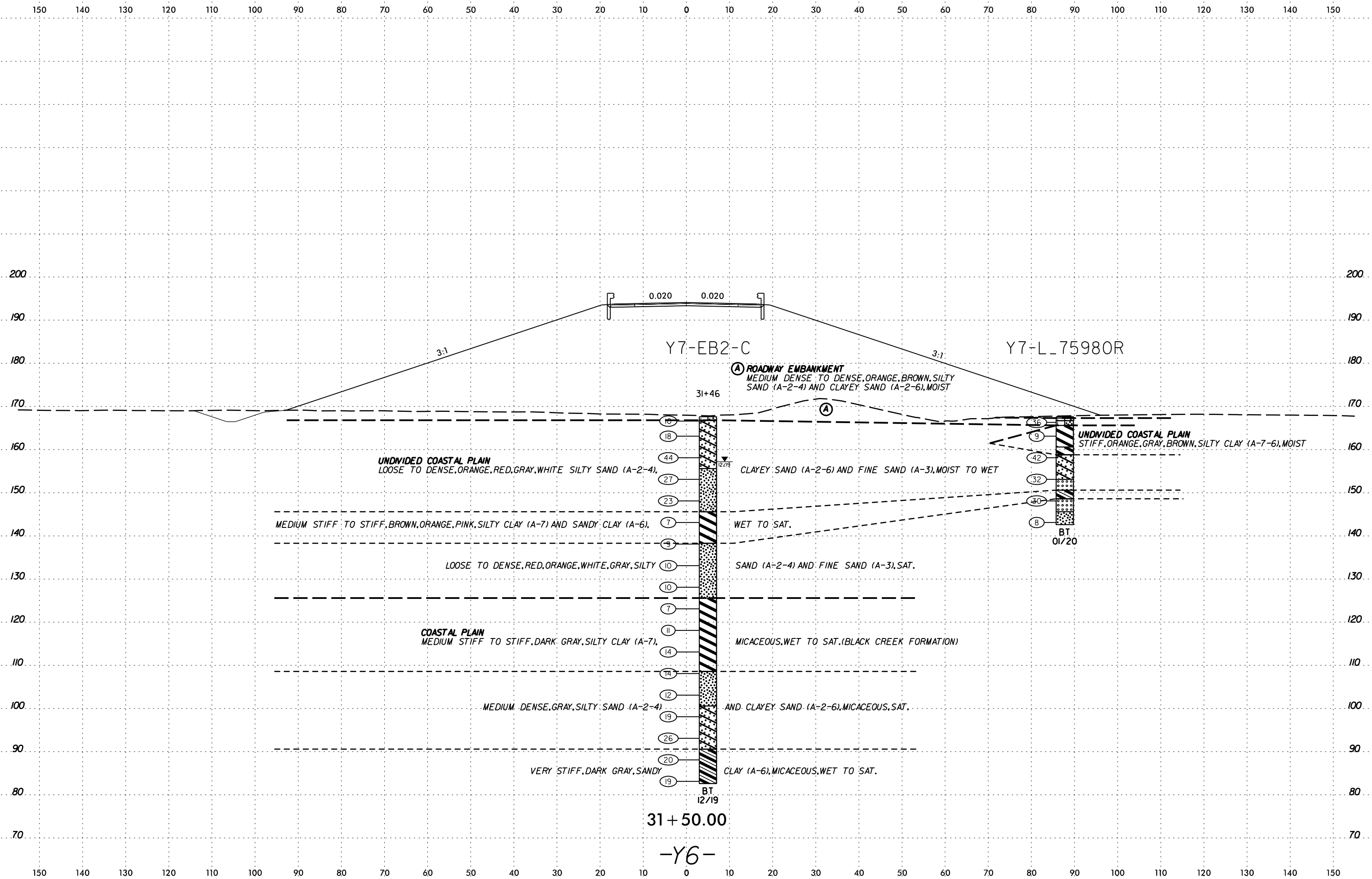
SCHEMATIC CONNECTION TO SHEET 308



SYTIME
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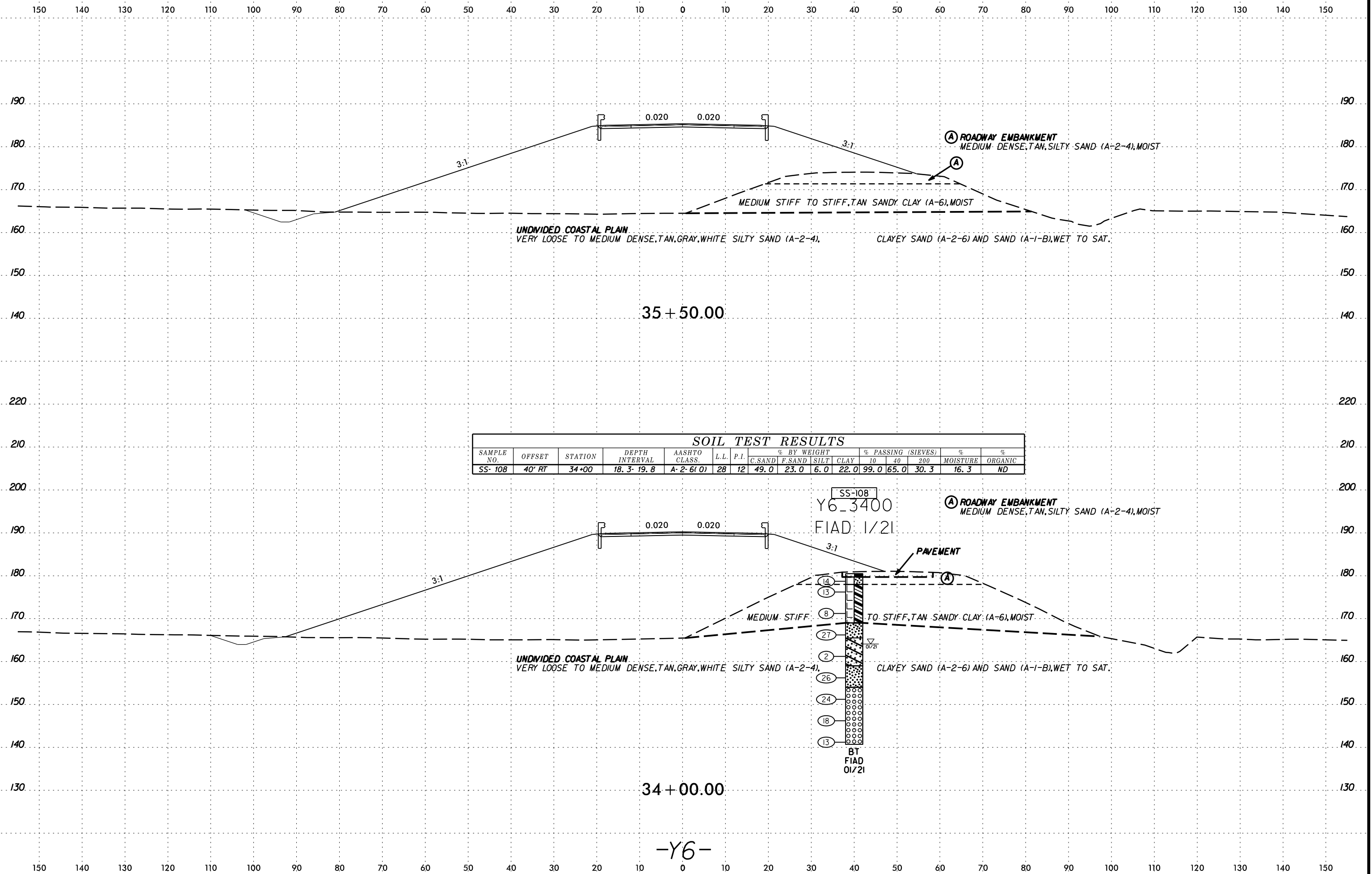
30+50.00
-Y6-

6/23/16

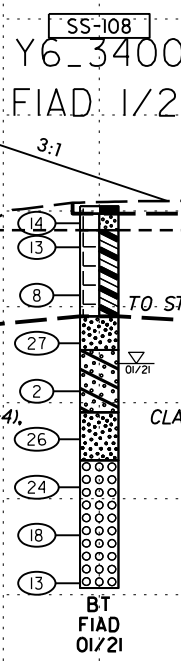


SCHEMATIC CROSS SECTION OF ROADWAY EMBANKMENT

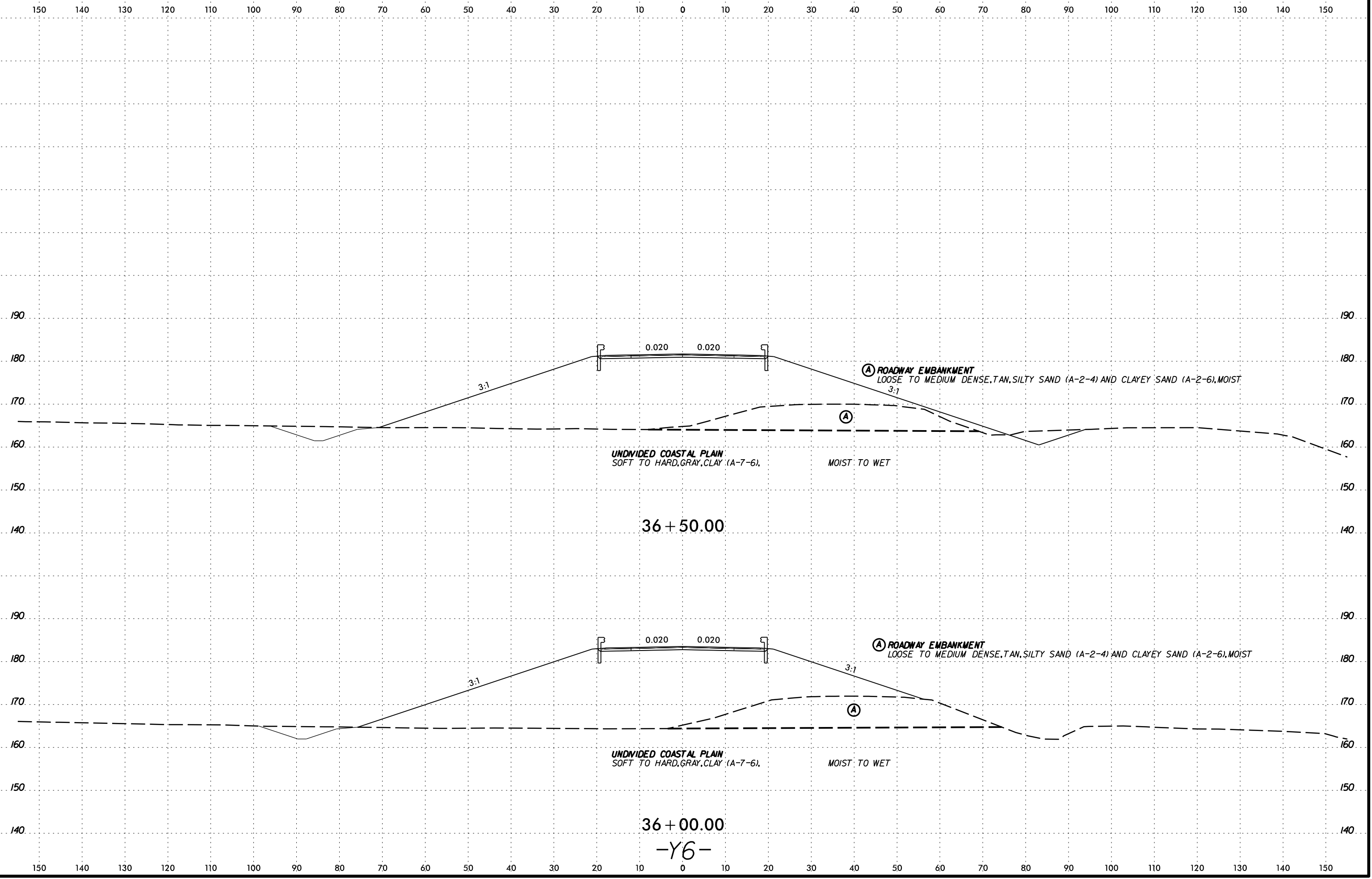
6/23/16



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-108	40' RT	34+00	18.3-19.8	A-2-6(0)	28	12	49.0	23.0	6.0	22.0	99.0	65.0	30.3	16.3	ND

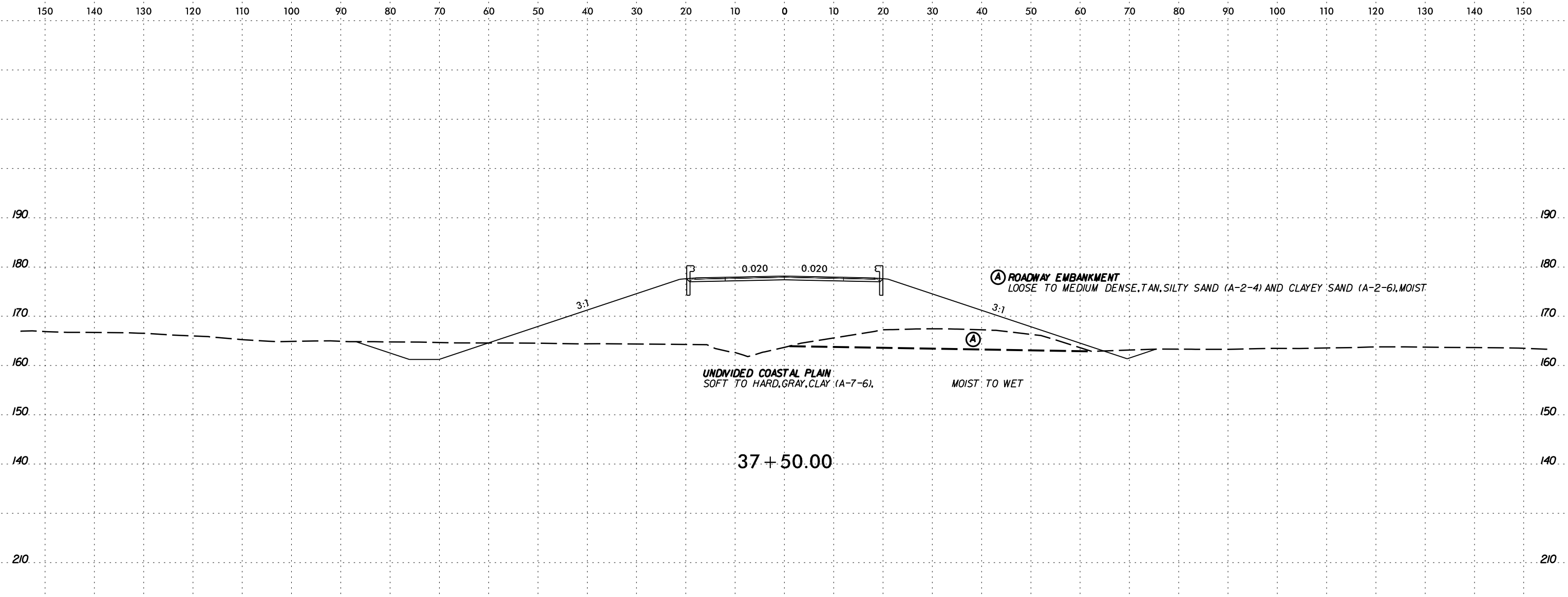


6/23/16



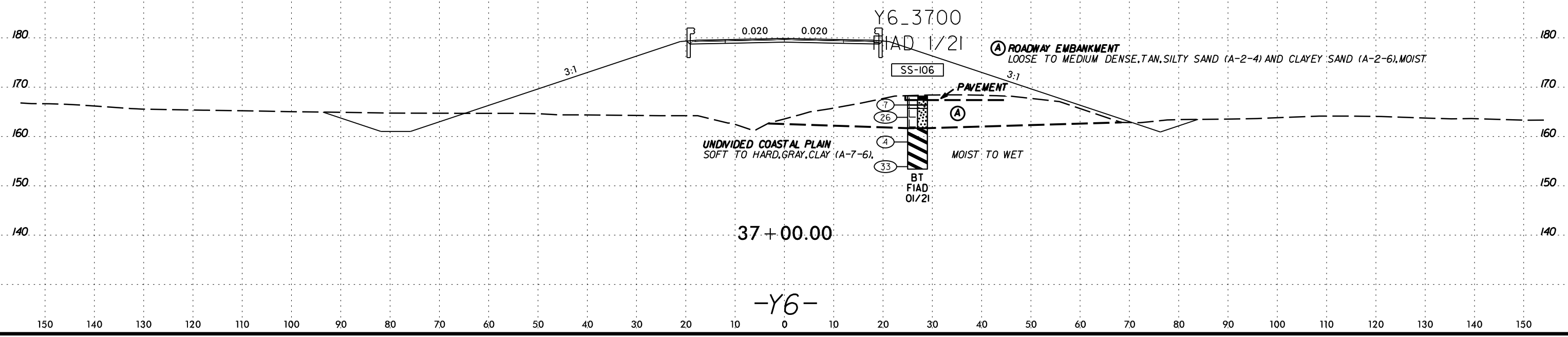
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6/23/16



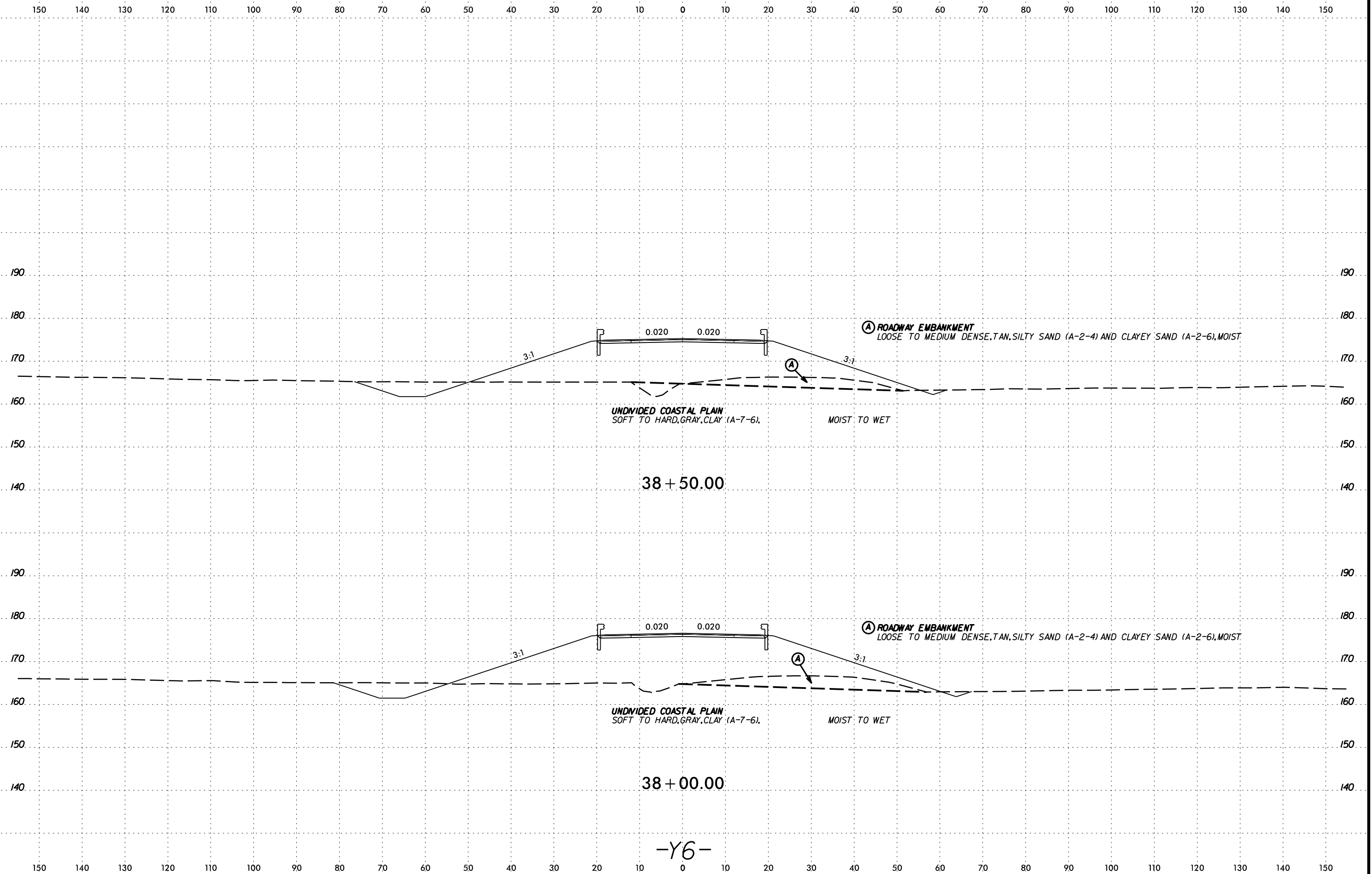
SOIL TEST RESULTS

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-106	27' RT	37+00	13.3-14.8	A-7-6(17)	44	23	10.0	21.0	20.0	49.0	100.0	94.0	74.8	12.2	ND



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

6/23/16
SECTION
PLAN
DATE
BY
CHECKED
APPROVED



38 + 50.00

38 + 00.00

-Y6-

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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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-108	20' LT	40+89	0.0-1.0	A-2-6(2)	38	23	44.4	25.1	6.9	23.6	96.6	67.0	33.0	19.0	ND
S-109	20' LT	40+89	5.0-6.0	A-2-7(3)	45	27	54.1	16.8	3.0	26.1	98.4	61.0	30.0	-	ND
S-110	20' LT	40+89	6.0-7.0	A-2-4(0)	NP	NP	76.1	10.9	2.0	11.0	99.7	72.0	13.0	-	ND
S-111	20' LT	40+89	7.0-8.0	A-2-4(0)	24	7	81.6	8.6	4.0	5.8	83.1	30.0	10.0	-	ND

REV S-108
S-109
S-110
S-111
40+89
4000

(A) ROADWAY EMBANKMENT
LOOSE TO MEDIUM DENSE, TAN, SILTY SAND (A-2-4) AND CLAYEY SAND (A-2-6), MOIST.

UNDIVIDED COASTAL PLAIN
ORANGE, GRAY, TAN, SILTY SAND (A-2-4) AND CLAYEY SAND (A-2-6 AND A-2-7), WET TO SAT.

BT
02/20

41 + 00.00

(A) ROADWAY EMBANKMENT
LOOSE TO MEDIUM DENSE, TAN, SILTY SAND (A-2-4) AND CLAYEY SAND (A-2-6), MOIST.

UNDIVIDED COASTAL PLAIN
ORANGE, GRAY, TAN, SILTY SAND (A-2-4) AND CLAYEY SAND (A-2-6 AND A-2-7), WET TO SAT.

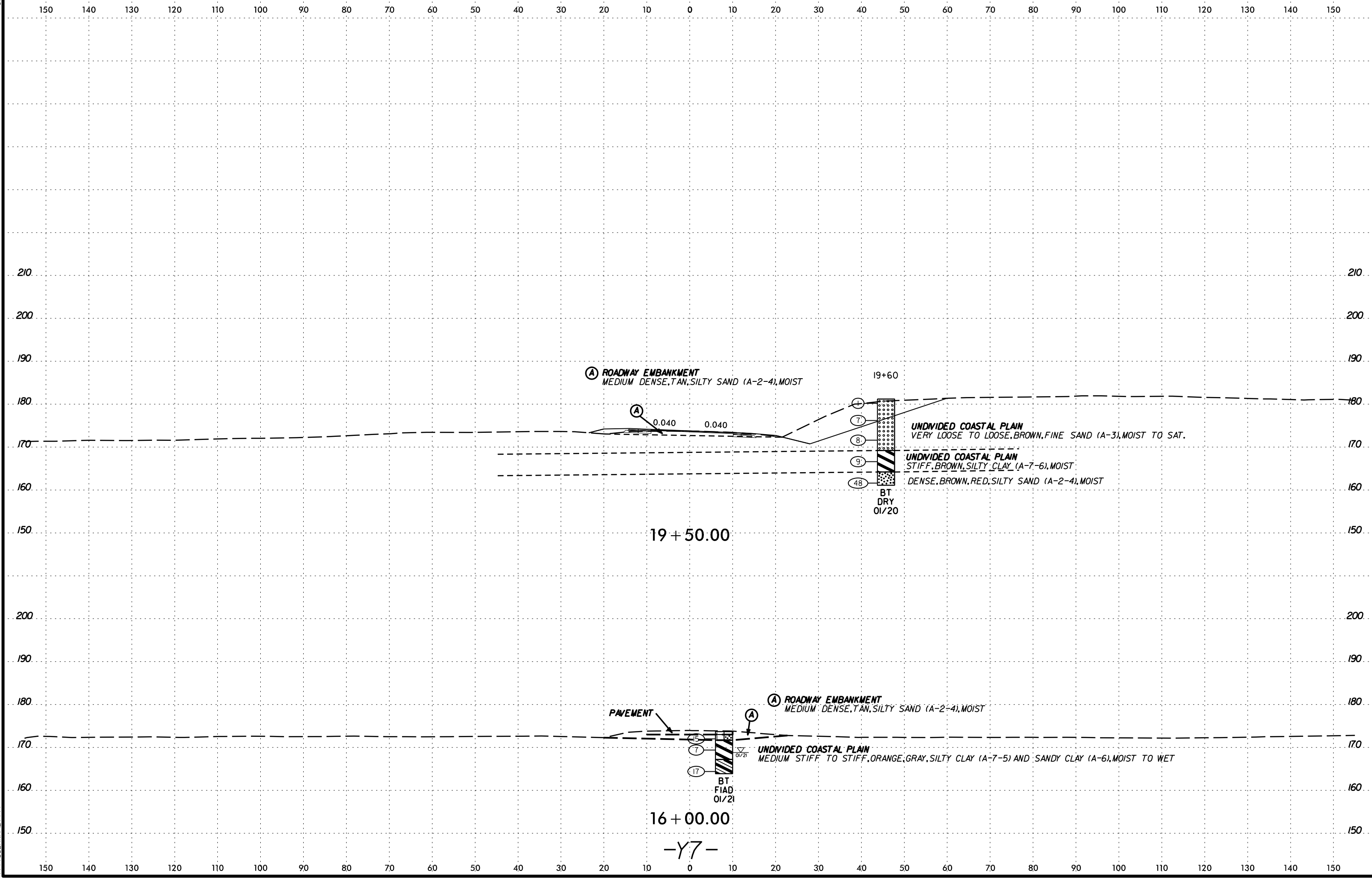
39 + 00.00

-Y6-

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

SCHEMATIC
 CONSTRUCTION
 DRAWING
 SHEET NO. 316
 PROJECT I-5987B

6/23/16



SYTIME
CON
JUL
ARRIVE

(A) ROADWAY EMBANKMENT
MEDIUM DENSE, TAN, SILTY SAND (A-2-4), MOIST

19+60

(A)

0.040 0.040

(7)

(8)

(9)

(48)

BT
DRY
01/20

UNDIVIDED COASTAL PLAIN
VERY LOOSE TO LOOSE, BROWN, FINE SAND (A-3), MOIST TO SAT.

UNDIVIDED COASTAL PLAIN
STIFF, BROWN, SILTY CLAY (A-7-6), MOIST

DENSE, BROWN, RED, SILTY SAND (A-2-4), MOIST

19+50.00

PAVEMENT

(A)

ROADWAY EMBANKMENT
MEDIUM DENSE, TAN, SILTY SAND (A-2-4), MOIST

(7)

(17)

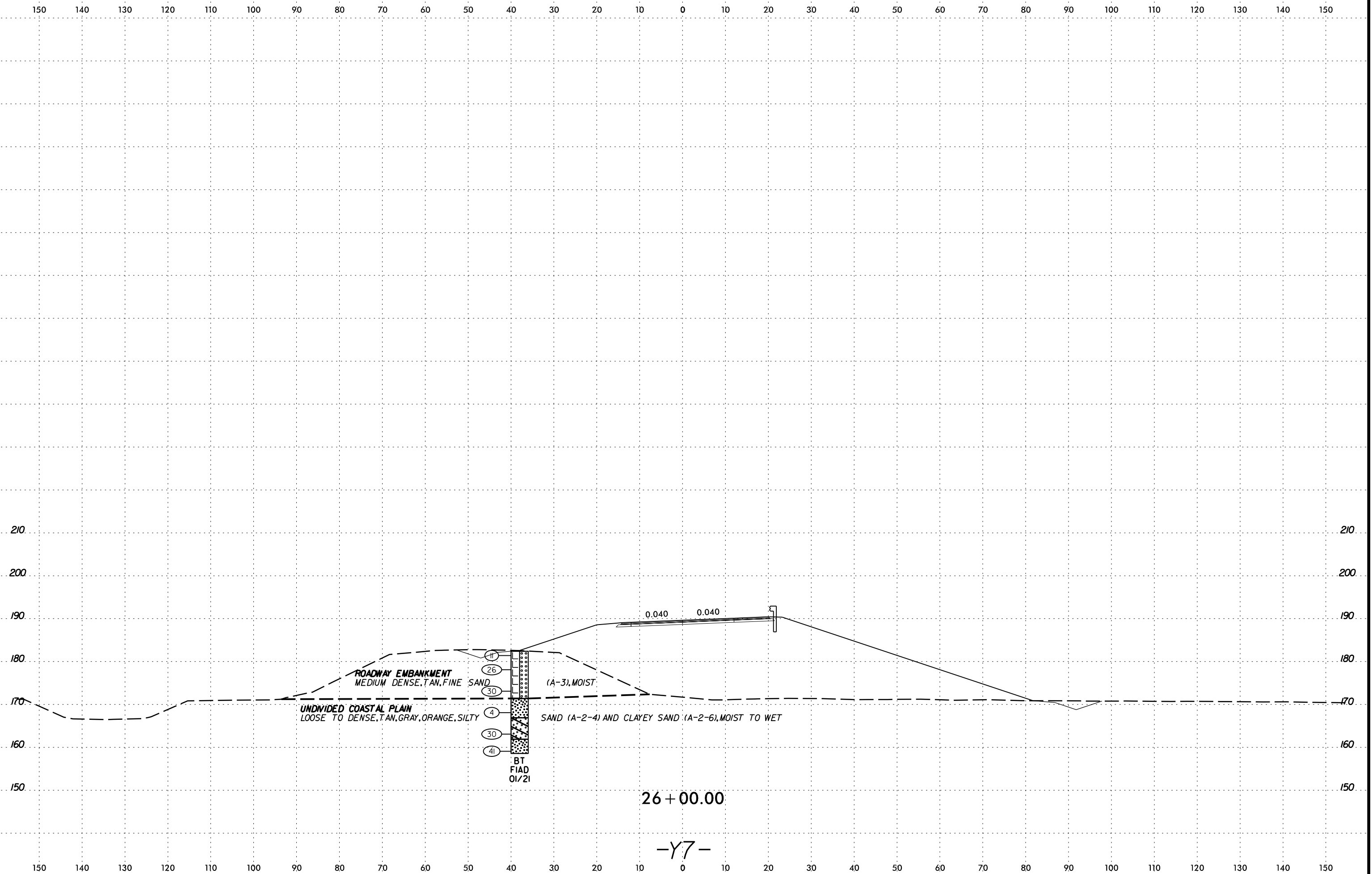
BT
FIAD
01/21

UNDIVIDED COASTAL PLAIN
MEDIUM STIFF TO STIFF, ORANGE, GRAY, SILTY CLAY (A-7-5) AND SANDY CLAY (A-6), MOIST TO WET

16+00.00

-Y7-

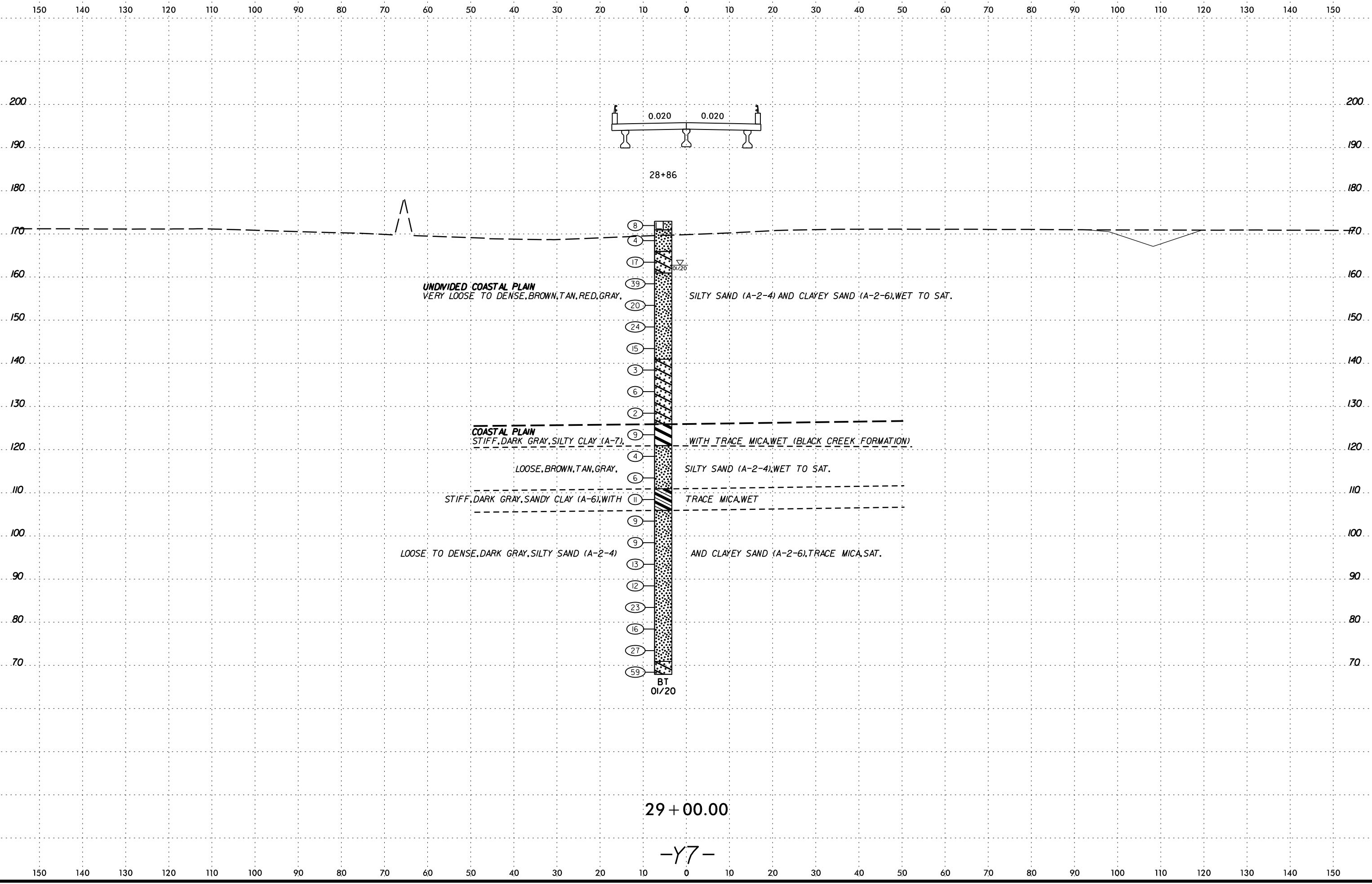
6/23/16



DATE: 6/23/16
DRAWN BY: [unreadable]
CHECKED BY: [unreadable]
SCALE: AS SHOWN
PROJECT: I-5987B

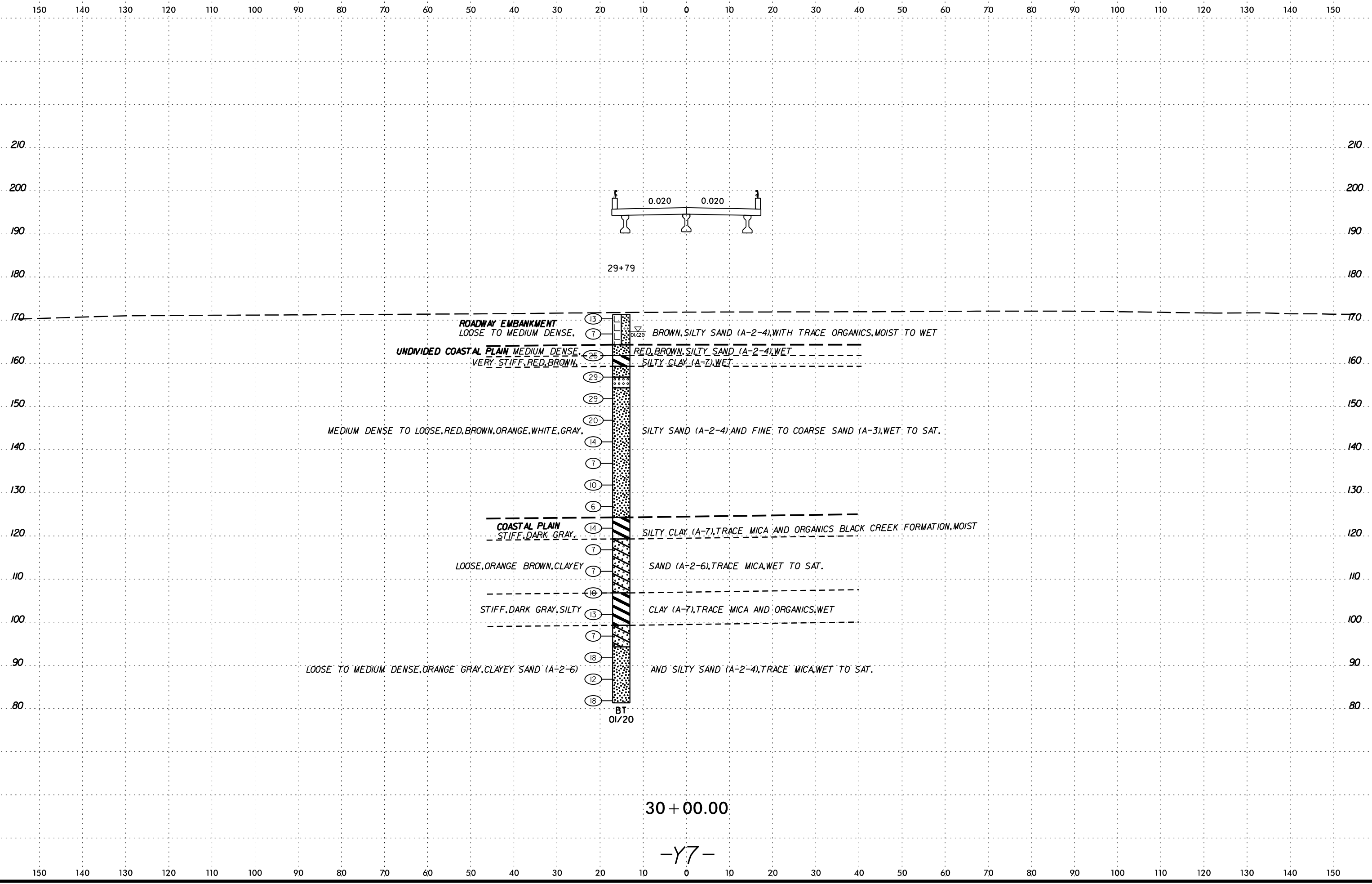
26 + 00.00

-Y7-



DATE: 6/23/16
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6/23/16

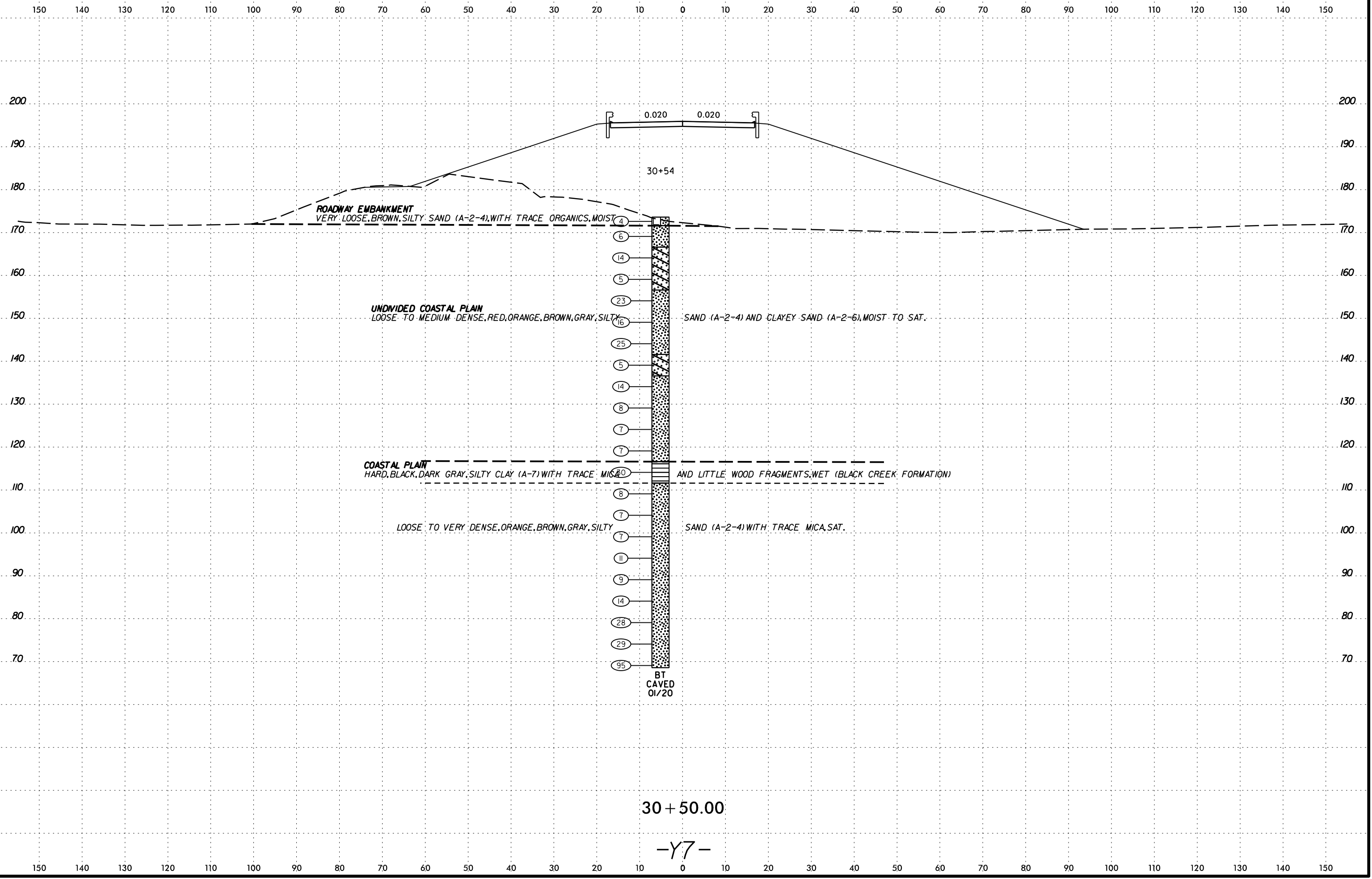


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SCALE: AS SHOWN

30 + 00.00

-Y7-

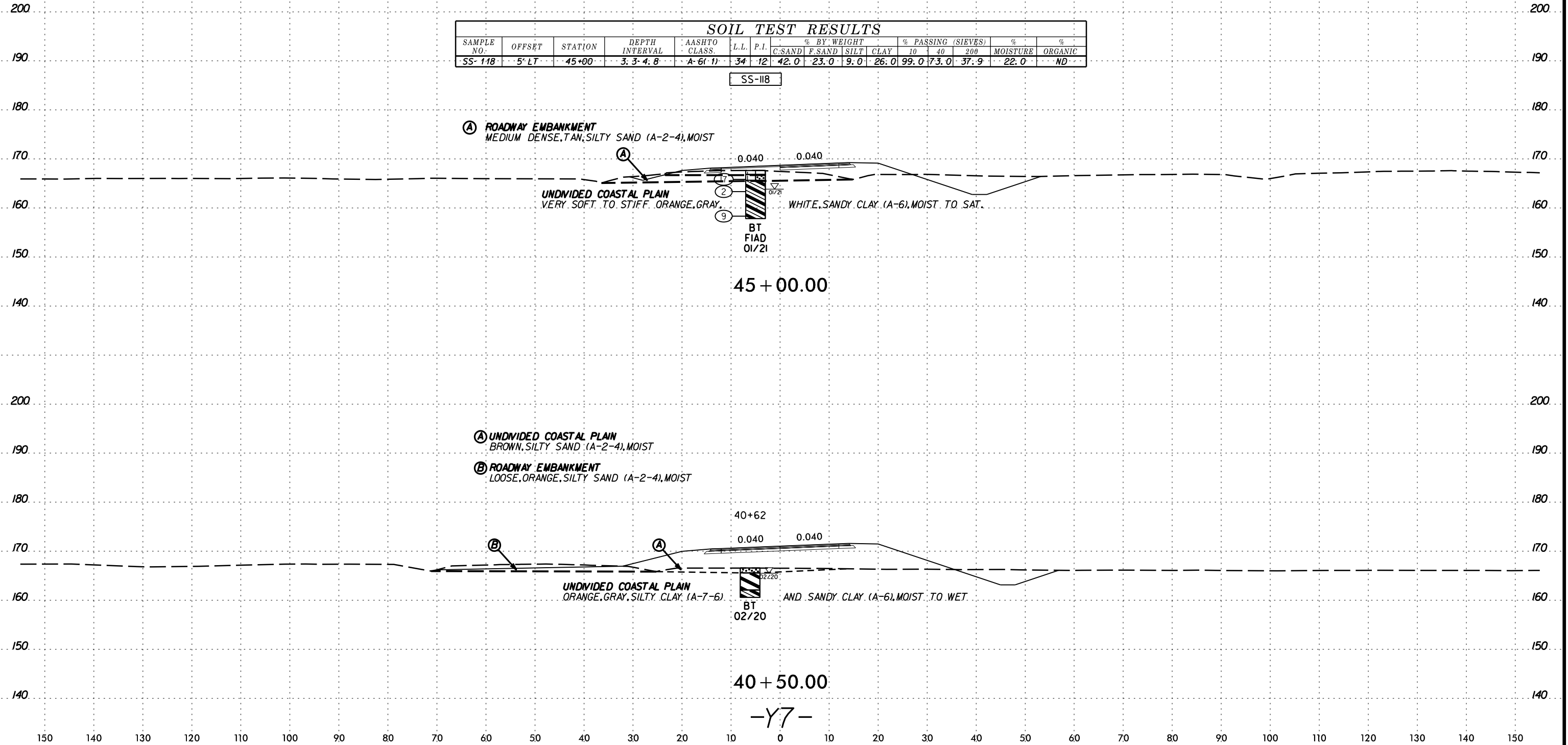
6/23/16



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

6/23/16
 COUNTY OF SAN DIEGO
 PUBLIC WORKS DEPARTMENT
 1250 LA JOLLA VILLAGE DRIVE
 SAN DIEGO, CA 92161
 TEL: 619-491-3100
 FAX: 619-491-3101
 WWW.SANDIEGO.CA.GOV

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-118	5' LT	45+00	3.3-4.8	A-6(1)	34	12	42.0	23.0	9.0	26.0	99.0	73.0	37.9	22.0	ND

SS-118

(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, TAN, SILTY SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
 VERY SOFT TO STIFF, ORANGE, GRAY

WHITE, SANDY CLAY (A-6), MOIST TO SAT.

BT
FIAD
01/21

45 + 00.00

(A) UNDIVIDED COASTAL PLAIN
 BROWN, SILTY SAND (A-2-4), MOIST

(B) ROADWAY EMBANKMENT
 LOOSE, ORANGE, SILTY SAND (A-2-4), MOIST

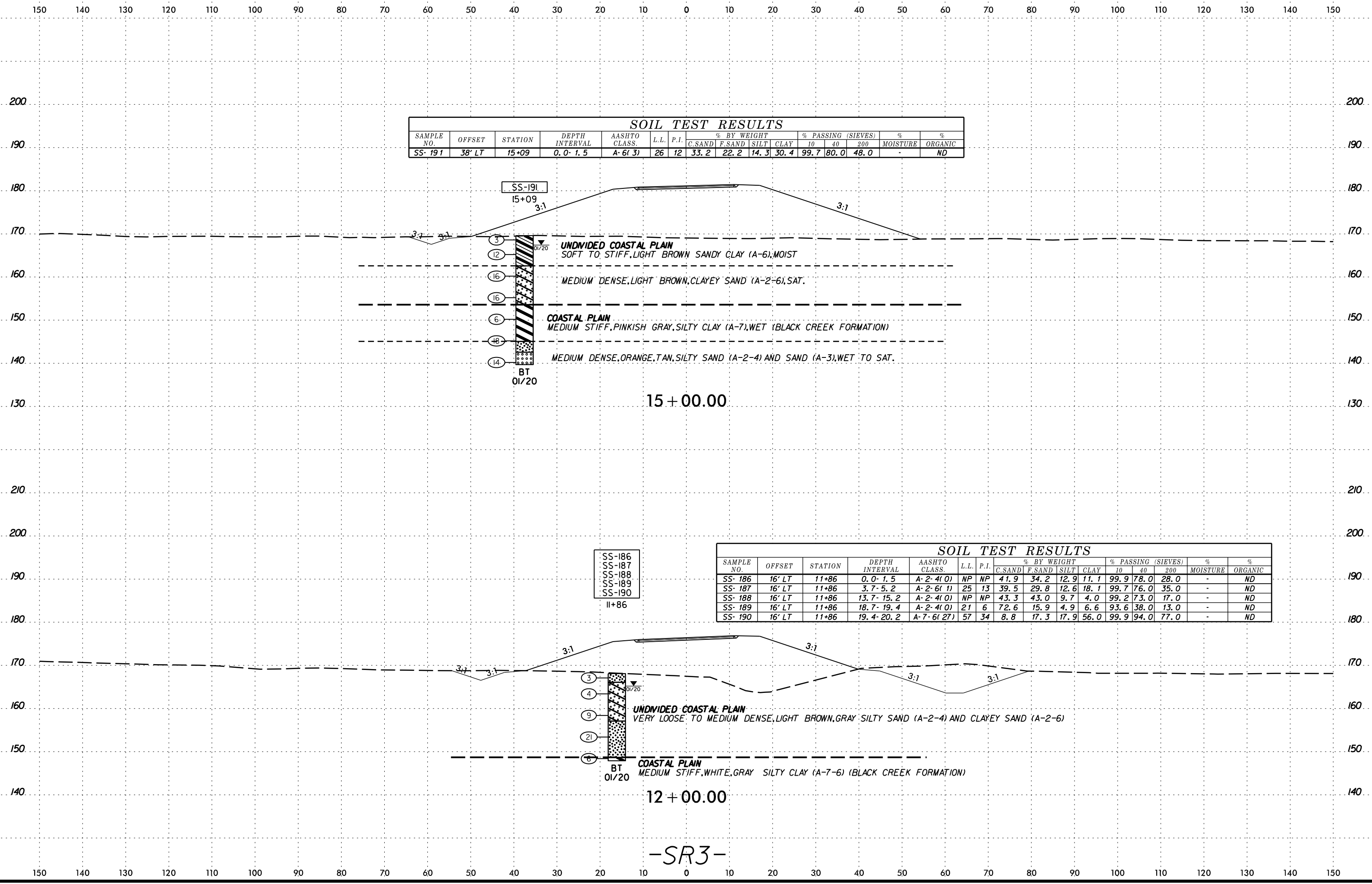
UNDIVIDED COASTAL PLAIN
 ORANGE, GRAY, SILTY CLAY (A-7-6)

AND SANDY CLAY (A-6), MOIST TO WET.

BT
02/20

40 + 50.00

-Y7-



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-191	38' LT	15+09	0.0-1.5	A-6(3)	26	12	33.2	22.2	14.3	30.4	99.7	80.0	48.0	-	ND

SOIL TEST RESULTS

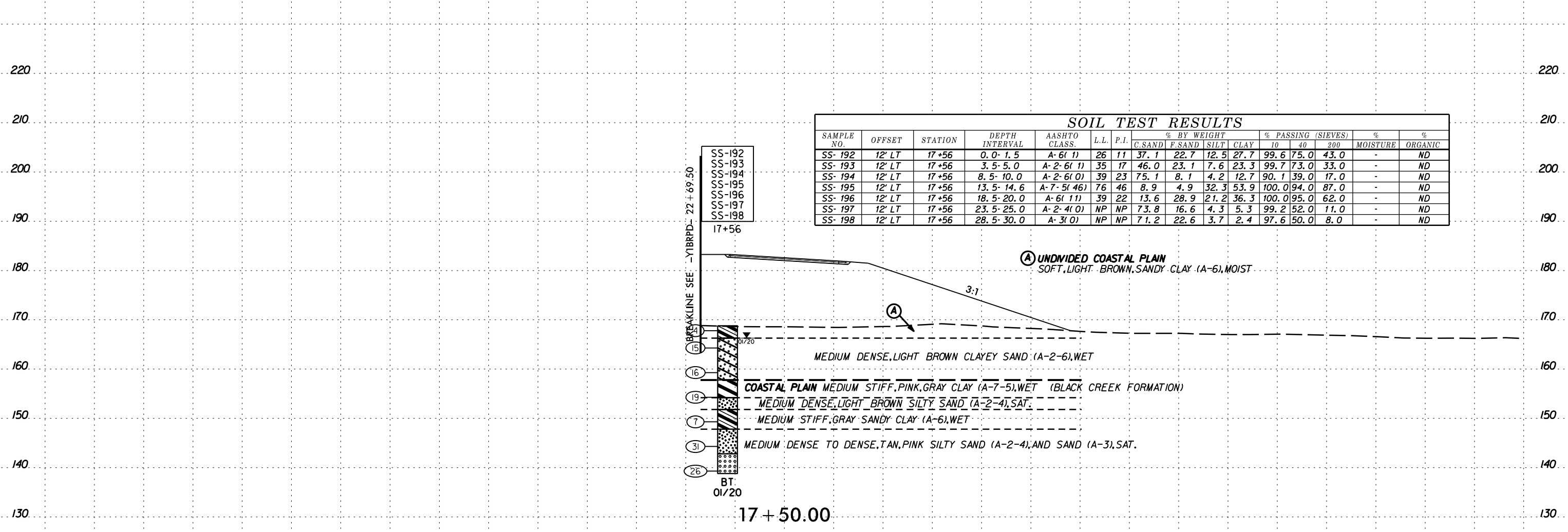
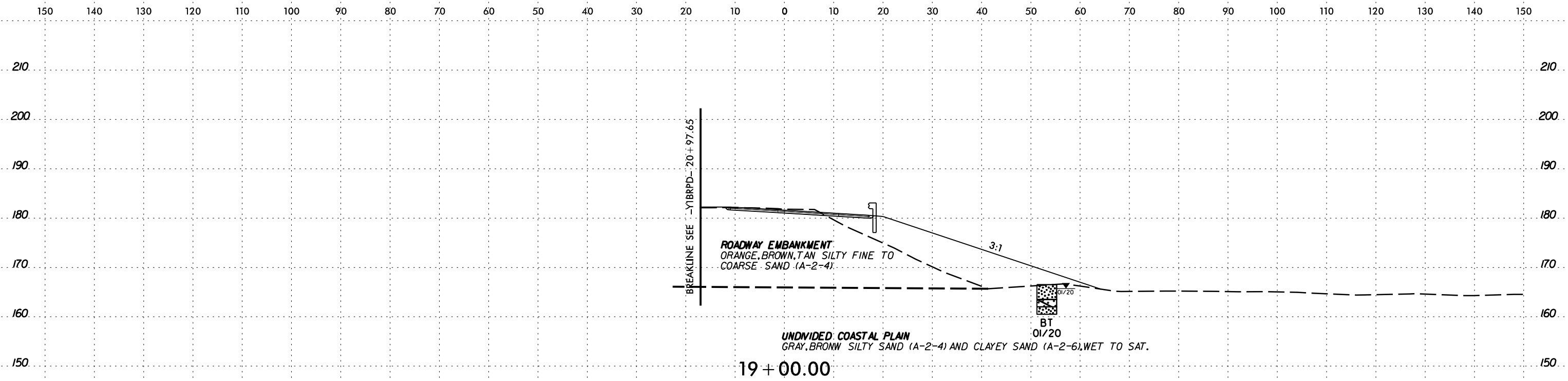
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			MOISTURE	ORGANIC
							C.SAND	F.SAND	SILT	CLAY	10	40	200		
SS-186	16' LT	11+86	0.0-1.5	A-2-4(0)	NP	NP	41.9	34.2	12.9	11.1	99.9	78.0	28.0	-	ND
SS-187	16' LT	11+86	3.7-5.2	A-2-6(1)	25	13	39.5	29.8	12.6	18.1	99.7	76.0	35.0	-	ND
SS-188	16' LT	11+86	13.7-15.2	A-2-4(0)	NP	NP	43.3	43.0	9.7	4.0	99.2	73.0	17.0	-	ND
SS-189	16' LT	11+86	18.7-19.4	A-2-4(0)	21	6	72.6	15.9	4.9	6.6	93.6	38.0	13.0	-	ND
SS-190	16' LT	11+86	19.4-20.2	A-7-6(27)	57	34	8.8	17.3	17.9	56.0	99.9	94.0	77.0	-	ND

15 + 00.00

12 + 00.00

-SR3-

DATE PLOTTED: 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-192	12' LT	17+56	0.0-1.5	A-6(1)	26	11	37.1	22.7	12.5	27.7	99.6	75.0	43.0	-	ND
SS-193	12' LT	17+56	3.5-5.0	A-2-6(1)	35	17	46.0	23.1	7.6	23.3	99.7	73.0	33.0	-	ND
SS-194	12' LT	17+56	8.5-10.0	A-2-6(0)	39	23	75.1	8.1	4.2	12.7	90.1	39.0	17.0	-	ND
SS-195	12' LT	17+56	13.5-14.6	A-7-5(46)	76	46	8.9	4.9	32.3	53.9	100.0	94.0	87.0	-	ND
SS-196	12' LT	17+56	18.5-20.0	A-6(1)	39	22	13.6	28.9	21.2	36.3	100.0	95.0	62.0	-	ND
SS-197	12' LT	17+56	23.5-25.0	A-2-4(0)	NP	NP	73.8	16.6	4.3	5.3	99.2	52.0	11.0	-	ND
SS-198	12' LT	17+56	28.5-30.0	A-3(0)	NP	NP	71.2	22.6	3.7	2.4	97.6	50.0	8.0	-	ND

- SS-192
- SS-193
- SS-194
- SS-195
- SS-196
- SS-197
- SS-198

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

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

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

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

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

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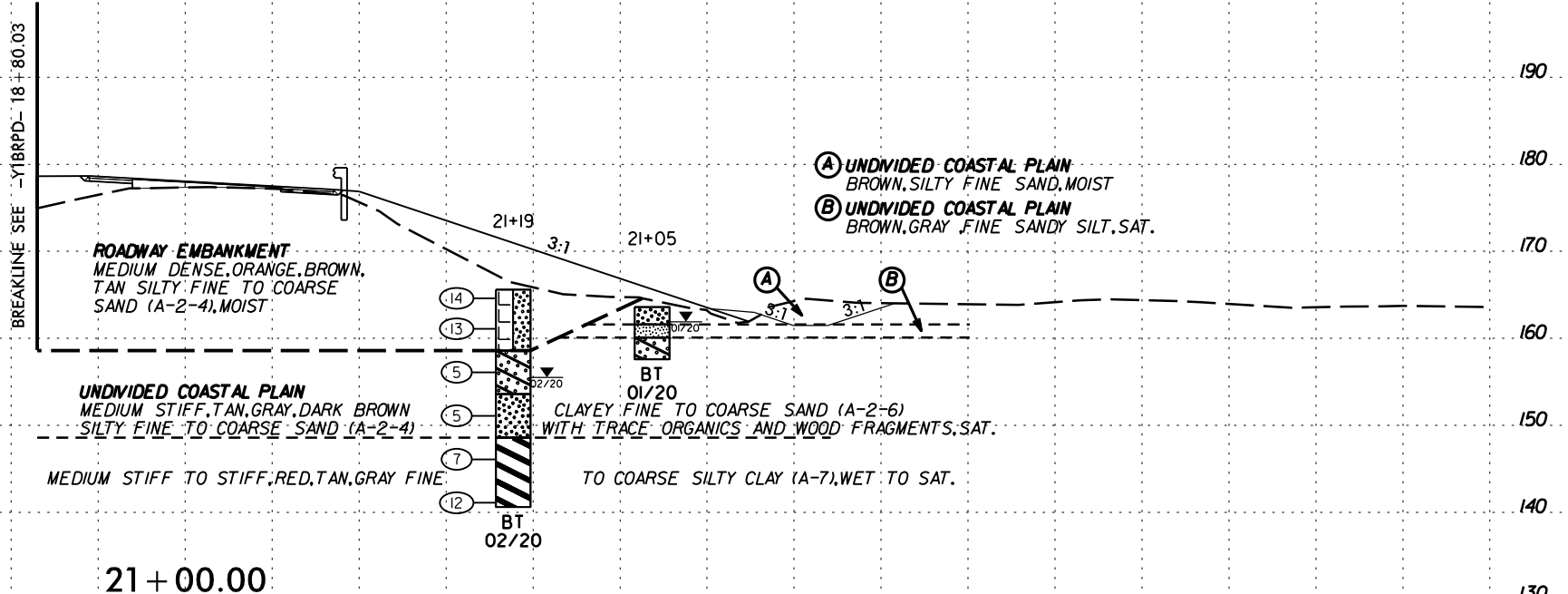
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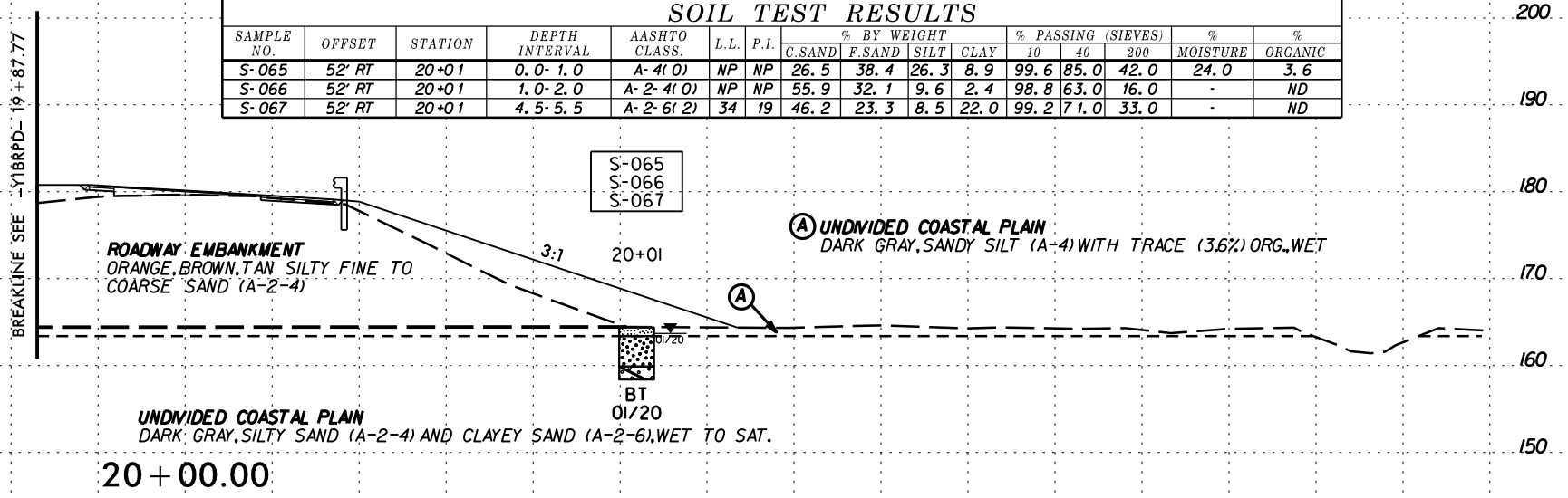
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200 190 180 170 160 150 140 130 200 190 180 170 160 150 140 130

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



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-065	52' RT	20+01	0.0- 1.0	A-4(0)	NP	NP	26.5	38.4	26.3	8.9	99.6	85.0	42.0	24.0	3.6
S-066	52' RT	20+01	1.0- 2.0	A-2-4(0)	NP	NP	55.9	32.1	9.6	2.4	98.8	63.0	16.0	-	ND
S-067	52' RT	20+01	4.5- 5.5	A-2-6(2)	34	19	46.2	23.3	8.5	22.0	99.2	71.0	33.0	-	ND



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

200 190 180 170 160 150

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

BREAKLINE SEE -YIBRPD- 16+72.65

BREAKLINE SEE -YIBRPD- 17+75.59

(A) ROADWAY EMBANKMENT
 MEDIUM DENSE, ORANGE, BROWN,
 TAN SILTY FINE TO COARSE
 SAND (A-2-4), MOIST

(A)

UNDIVIDED COASTAL PLAIN
 VERY LOOSE TO MEDIUM DENSE GRAY SILTY SAND (A-2-4), WET TO SAT.

23+00.00

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-068	43' RT	22+08	0.0-0.5	A-4(0)	NP	NP	26.4	36.2	33.4	4.0	99.5	90.0	43.0	-	ND
S-069	43' RT	22+08	0.5-1.5	A-2-4(0)	NP	NP	55.4	28.6	13.0	3.0	98.8	66.0	19.0	-	ND

ROADWAY EMBANKMENT
 MEDIUM DENSE, ORANGE, BROWN,
 TAN SILTY FINE TO COARSE
 SAND (A-2-4), MOIST

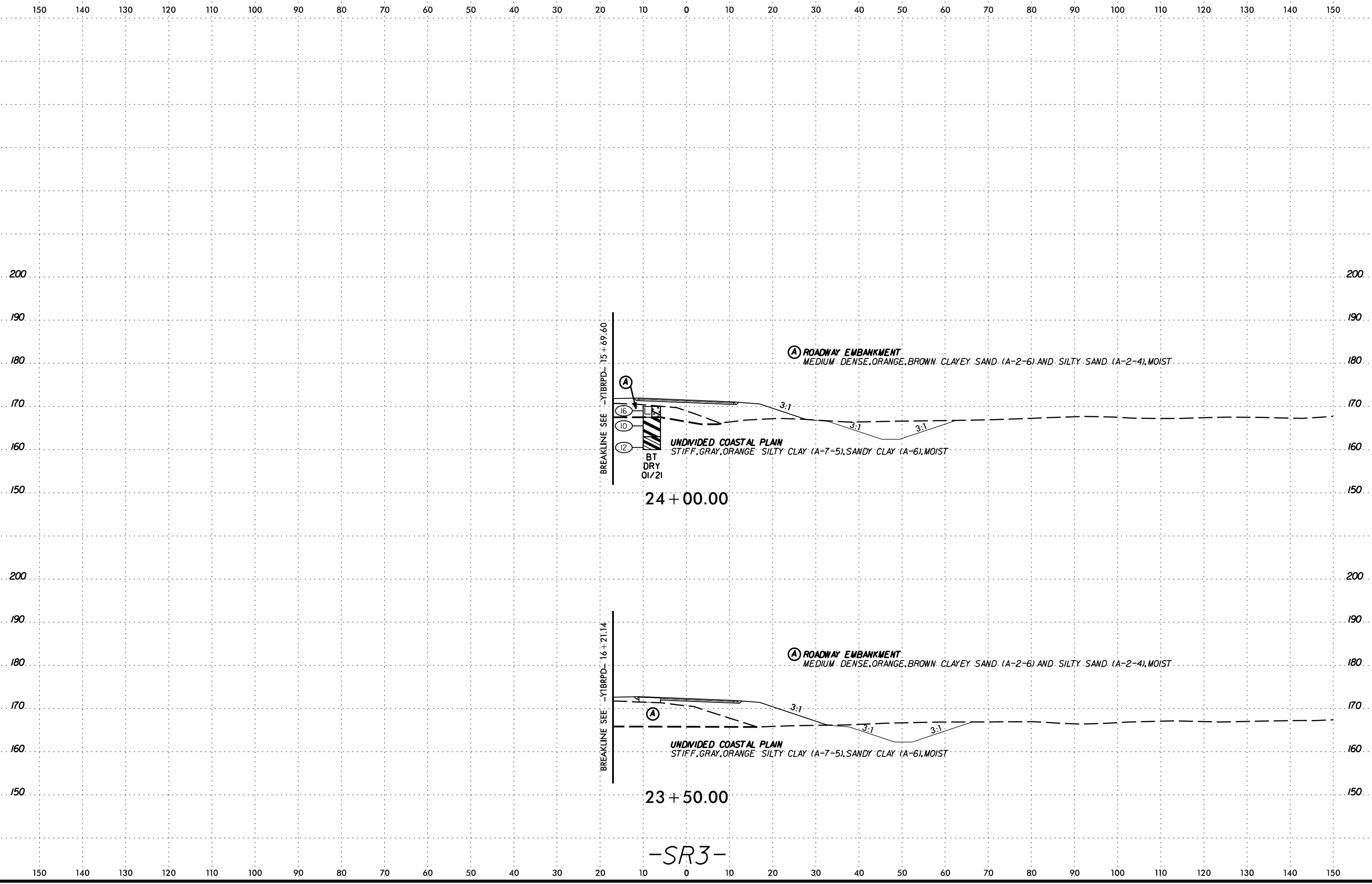
S-068
S-069
22+08

(A) UNDIVIDED COASTAL PLAIN
 BLACK, SANDY SILT (A-4) WITH LITTLE (9.6%) ORGANICS, WET

UNDIVIDED COASTAL PLAIN
 VERY LOOSE TO MEDIUM DENSE GRAY SILTY SAND (A-2-4), WET TO SAT.

22+00.00

-SR3-



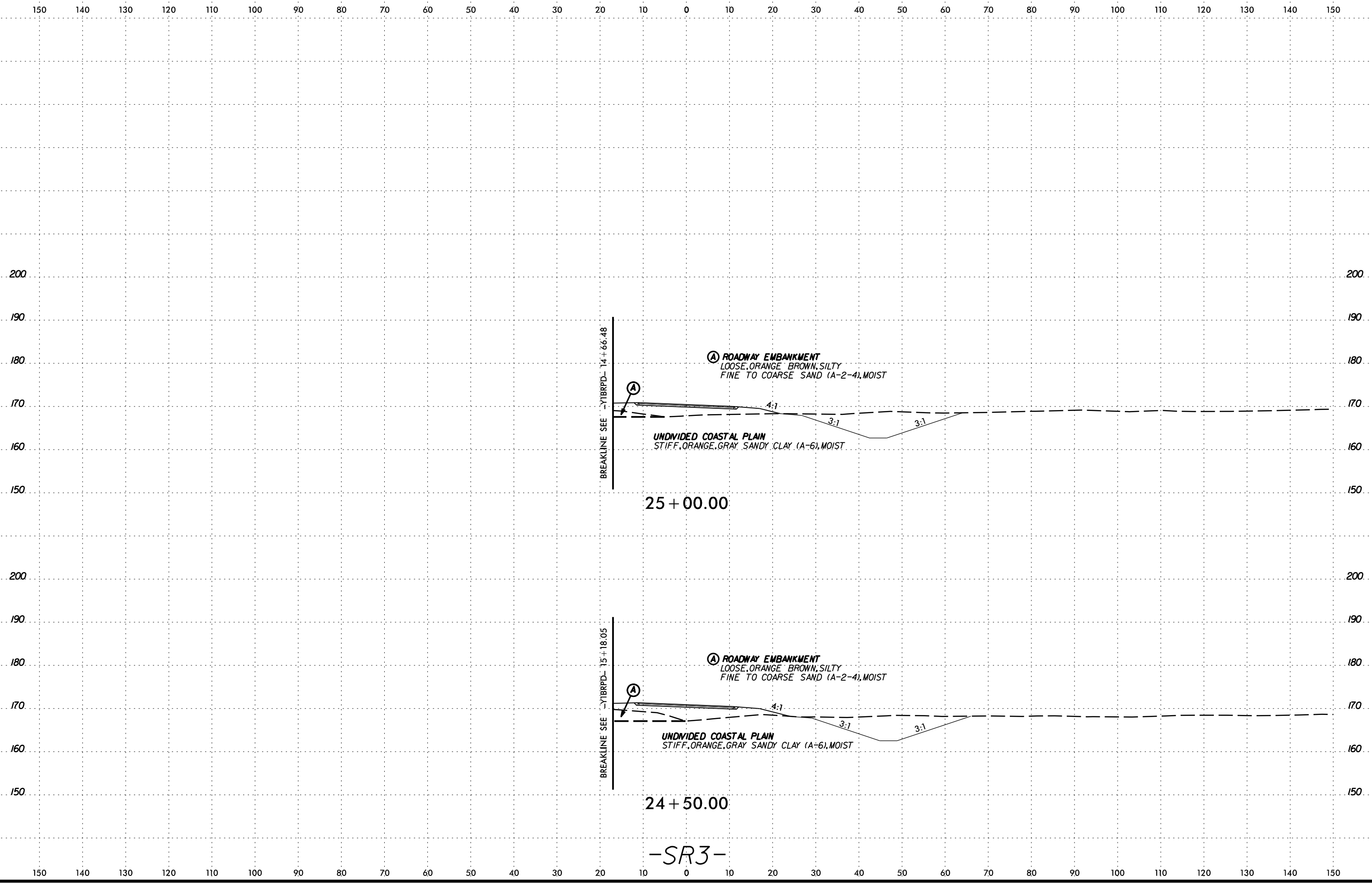
24 + 00.00

23 + 50.00

-SR3-

SYTIME
CON
JUL
ARRIVE

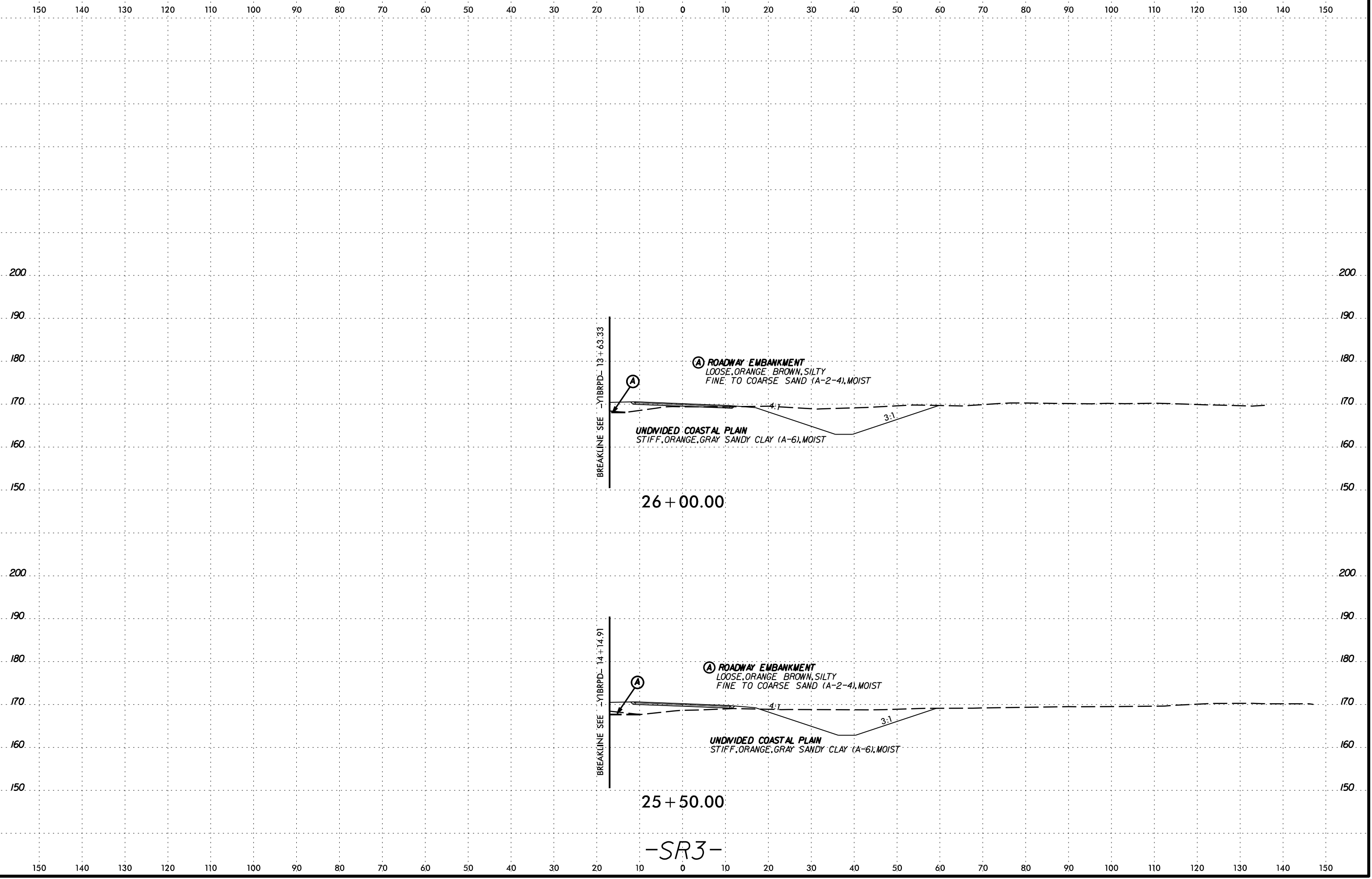
6/23/16



-SR3-

DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 PROJECT: I-5987B

6/23/16



BREAKLINE SEE -YIBRPD- 13+63.33

BREAKLINE SEE -YIBRPD- 14+14.91

(A) ROADWAY EMBANKMENT
 LOOSE, ORANGE, BROWN, SILTY
 FINE TO COARSE SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
 STIFF, ORANGE, GRAY SANDY CLAY (A-6), MOIST

26 + 00.00

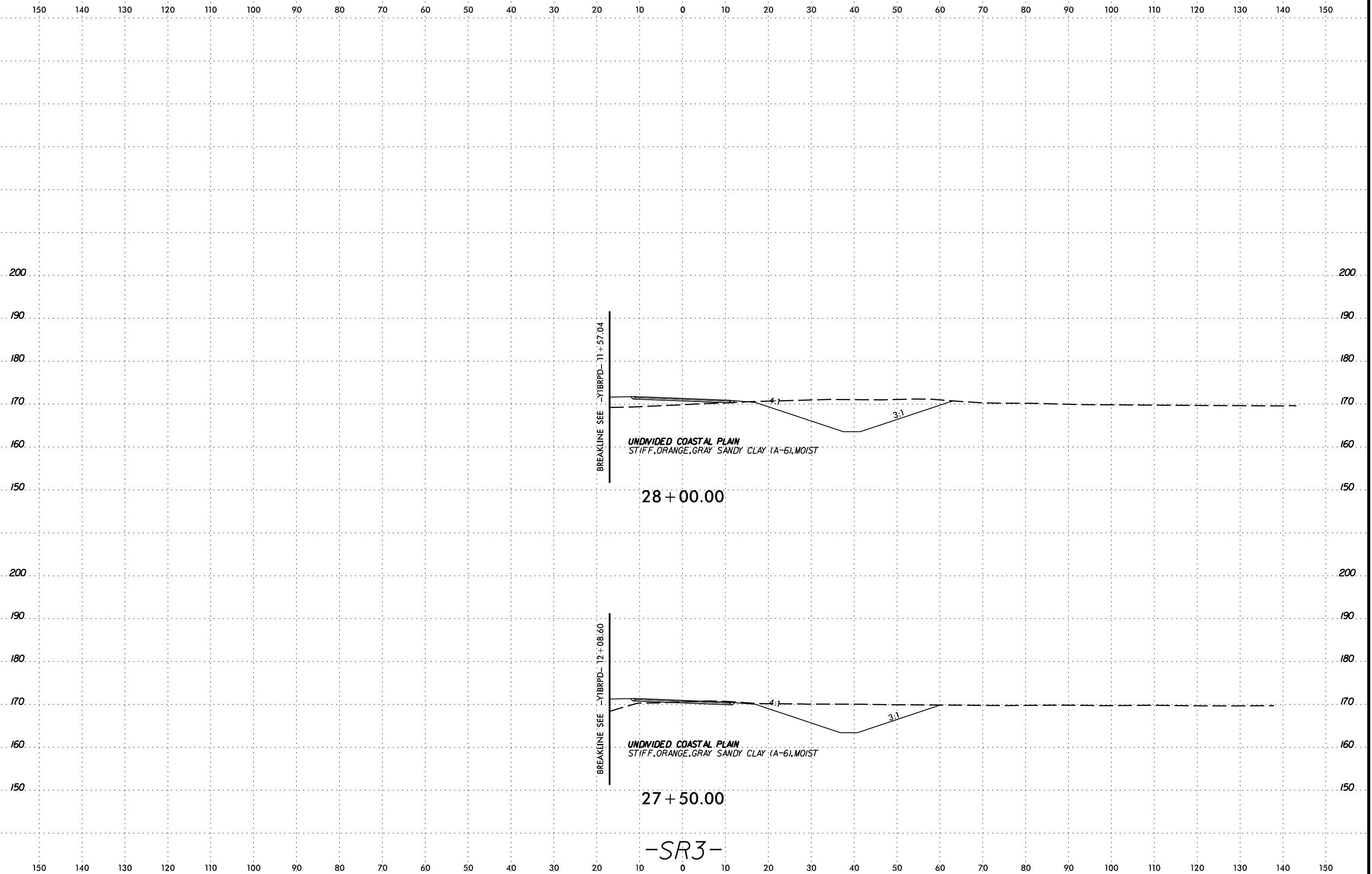
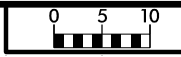
(A) ROADWAY EMBANKMENT
 LOOSE, ORANGE, BROWN, SILTY
 FINE TO COARSE SAND (A-2-4), MOIST

UNDIVIDED COASTAL PLAIN
 STIFF, ORANGE, GRAY SANDY CLAY (A-6), MOIST

25 + 50.00

-SR3-

DATE: 6/23/16
 DRAWN BY: [illegible]
 CHECKED BY: [illegible]
 PROJECT: I-5987B
 SHEET: 330



BREAKLINE SEE -YIBRPD- 11 + 57.04

BREAKLINE SEE -YIBRPD- 12 + 08.60

UNDIVIDED COASTAL PLAIN
STIFF, ORANGE, GRAY SANDY CLAY (A-6), MOIST

UNDIVIDED COASTAL PLAIN
STIFF, ORANGE, GRAY SANDY CLAY (A-6), MOIST

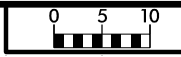
28 + 00.00

27 + 50.00

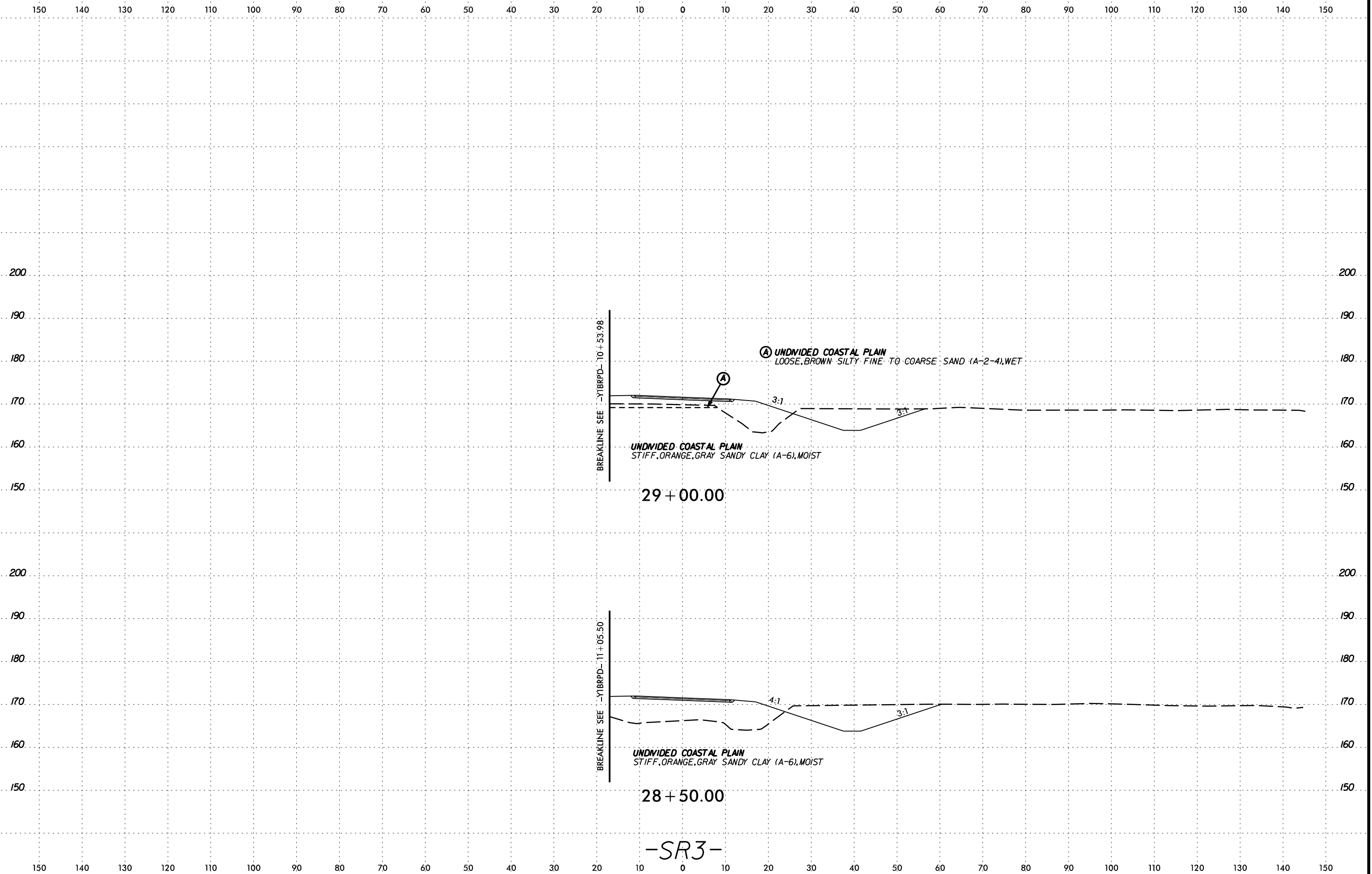
-SR3-

SYTIME
CON
ARRIVE

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
I-5987B	333

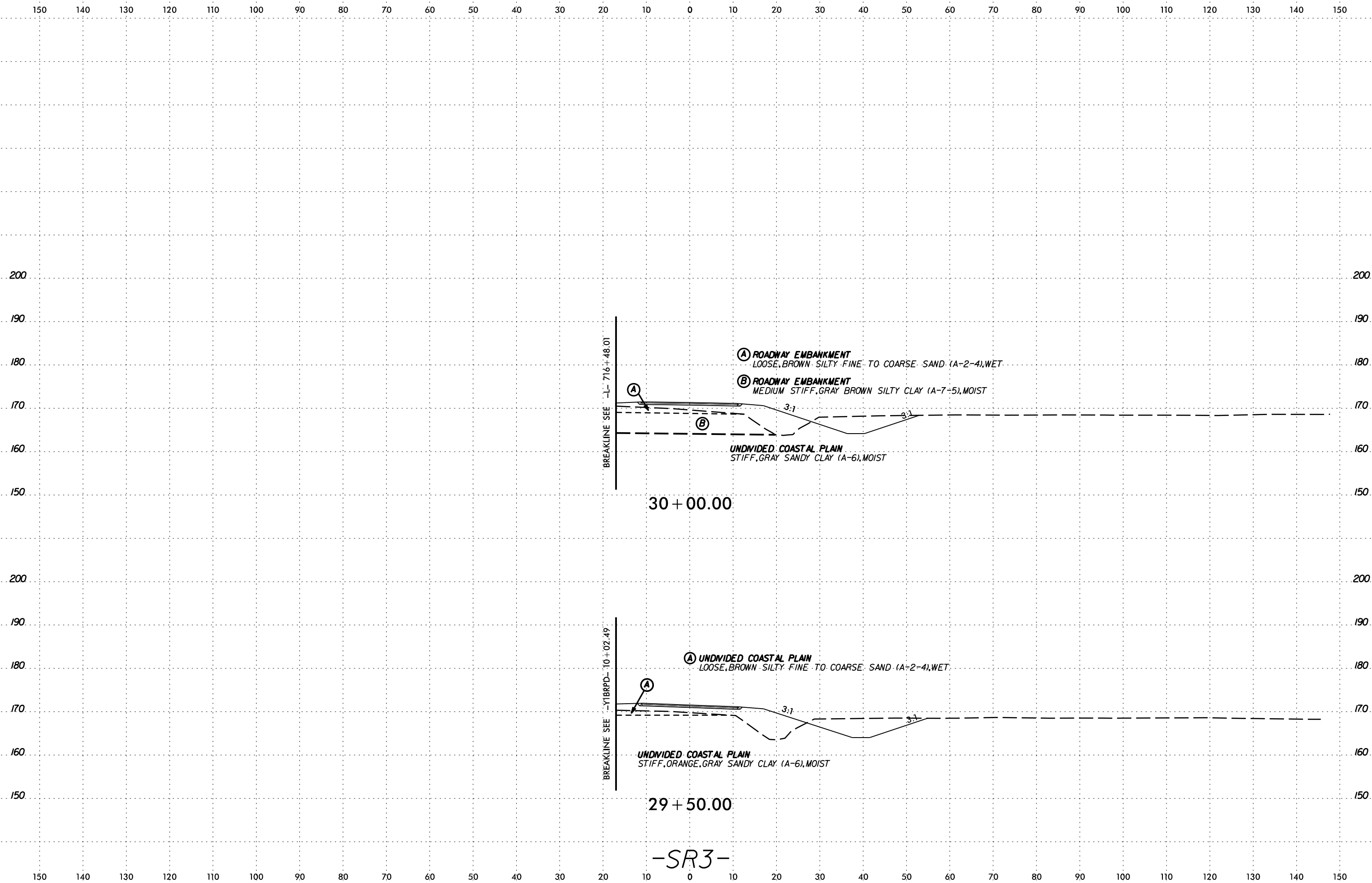


29 + 00.00

28 + 50.00

-SR3-

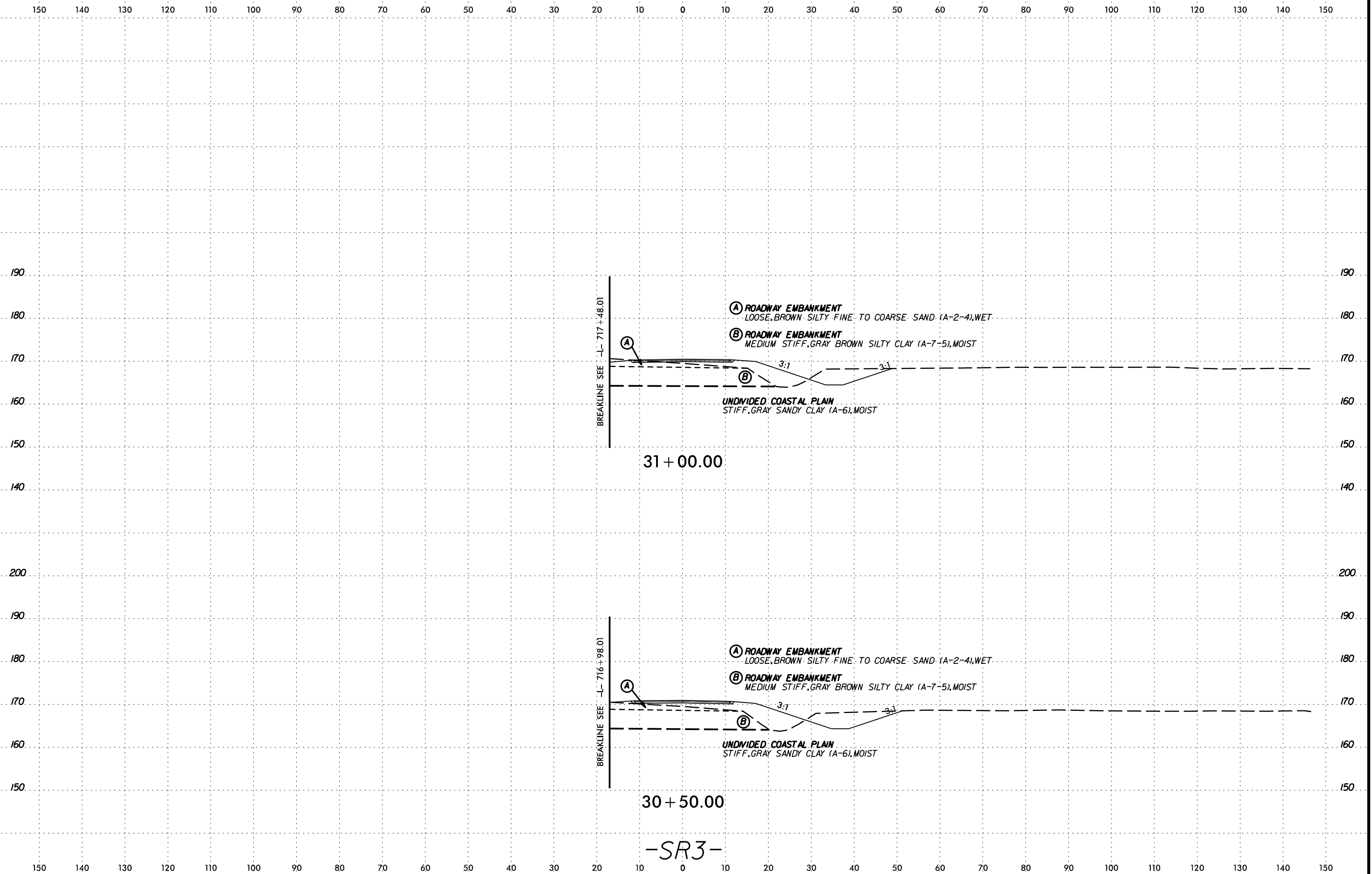
SYTIME
CON
JUL
ARRIVE

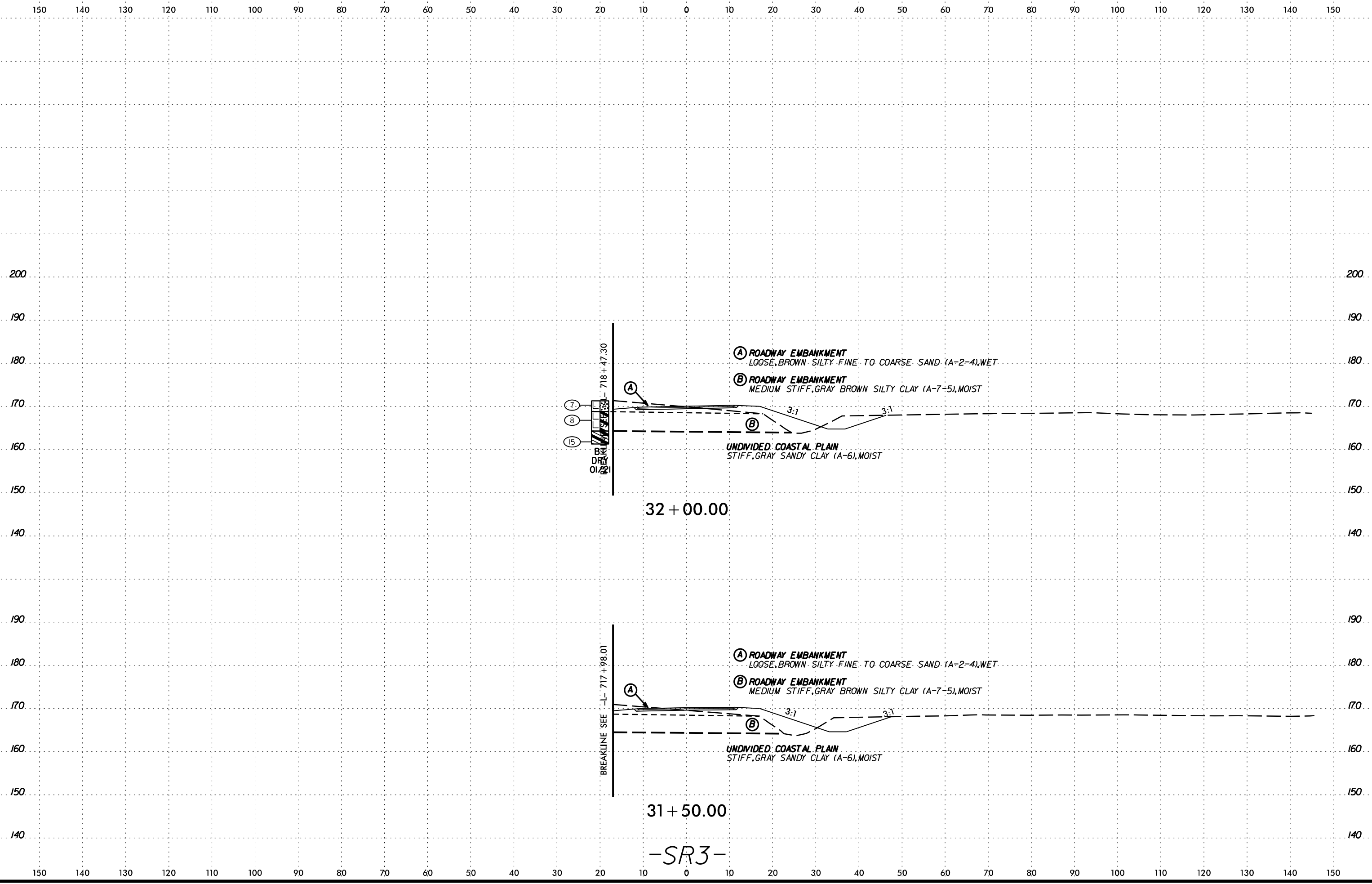


-SR3-

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

6/23/16
SYTIME
CON
SUL
ARRANGE





7
8
15
B
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O
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P
L
718 + 47.30

32 + 00.00

B
D
O
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P
L
717 + 98.01

31 + 50.00

-SR3-

(A) ROADWAY EMBANKMENT
LOOSE, BROWN SILTY FINE TO COARSE SAND (A-2-4), WET

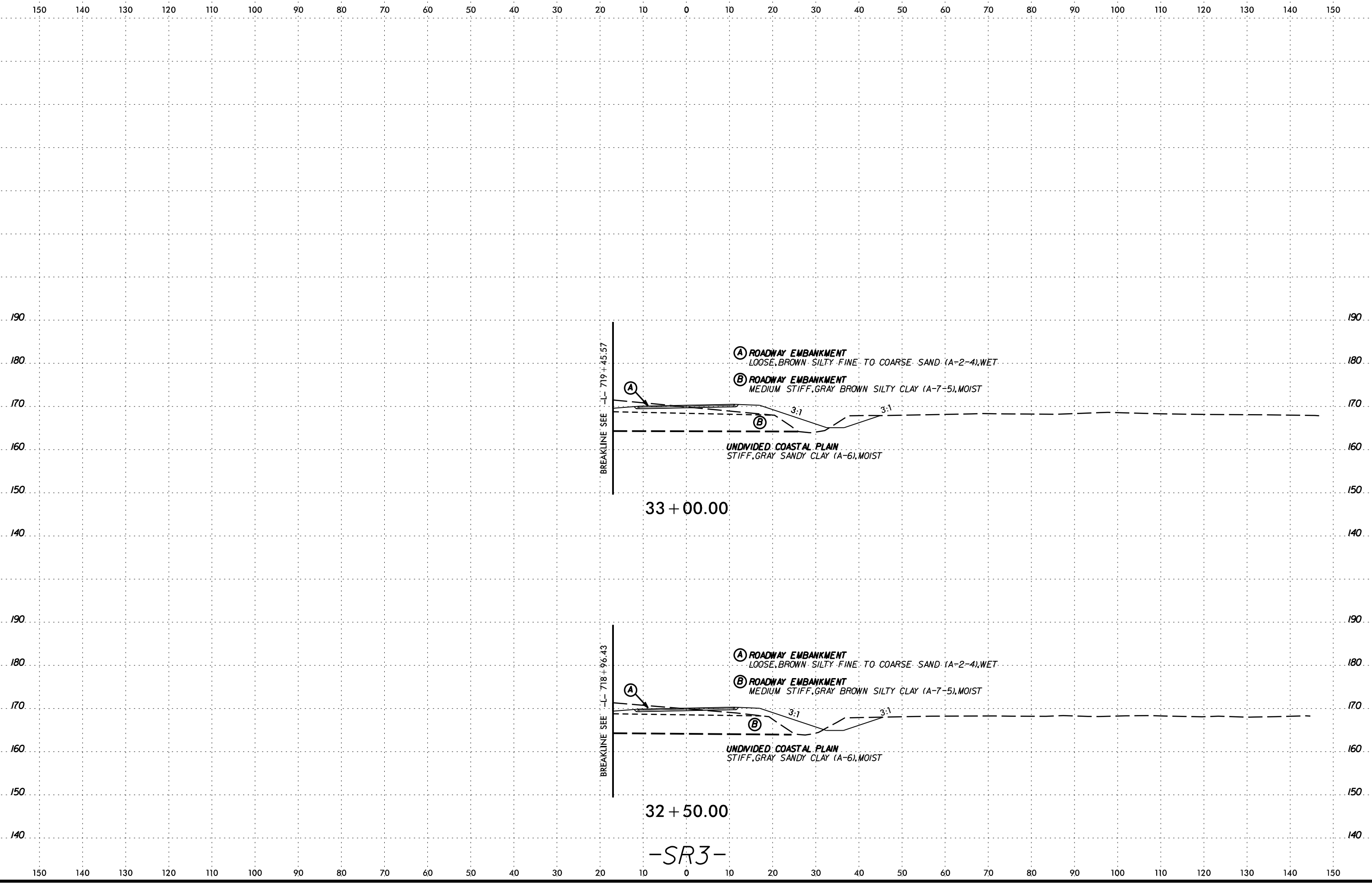
(B) ROADWAY EMBANKMENT
MEDIUM STIFF, GRAY BROWN SILTY CLAY (A-7-5), MOIST

UNDIVIDED COASTAL PLAIN
STIFF, GRAY SANDY CLAY (A-6), MOIST

(A) ROADWAY EMBANKMENT
LOOSE, BROWN SILTY FINE TO COARSE SAND (A-2-4), WET

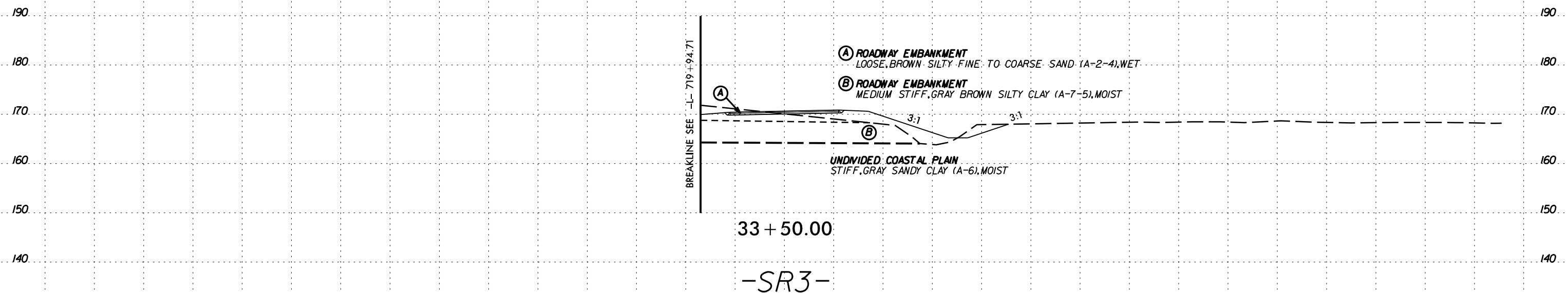
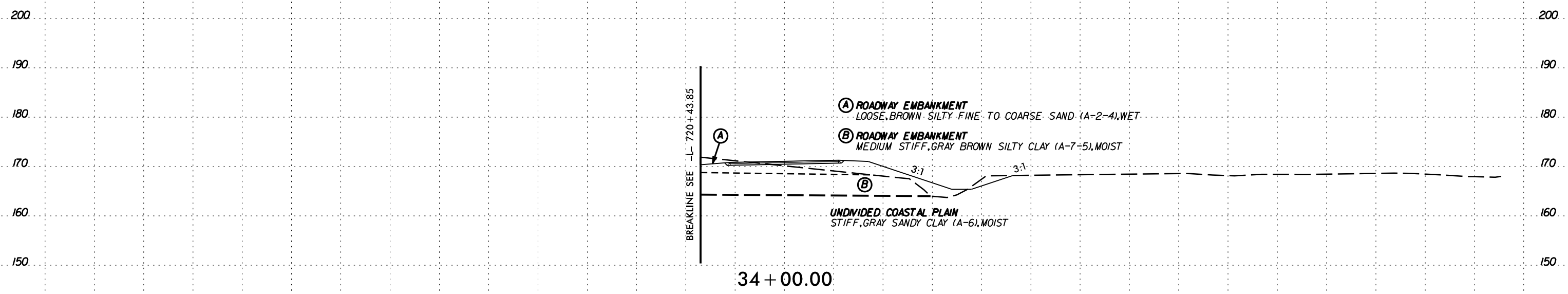
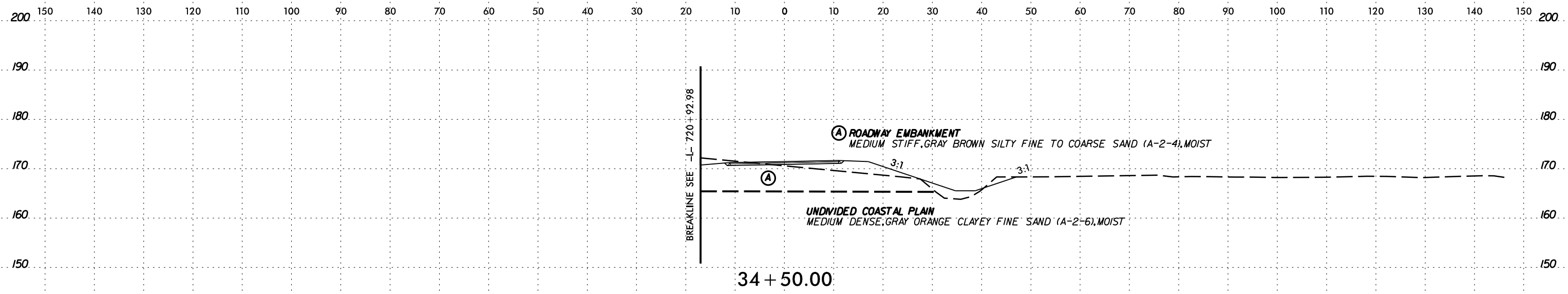
(B) ROADWAY EMBANKMENT
MEDIUM STIFF, GRAY BROWN SILTY CLAY (A-7-5), MOIST

UNDIVIDED COASTAL PLAIN
STIFF, GRAY SANDY CLAY (A-6), MOIST



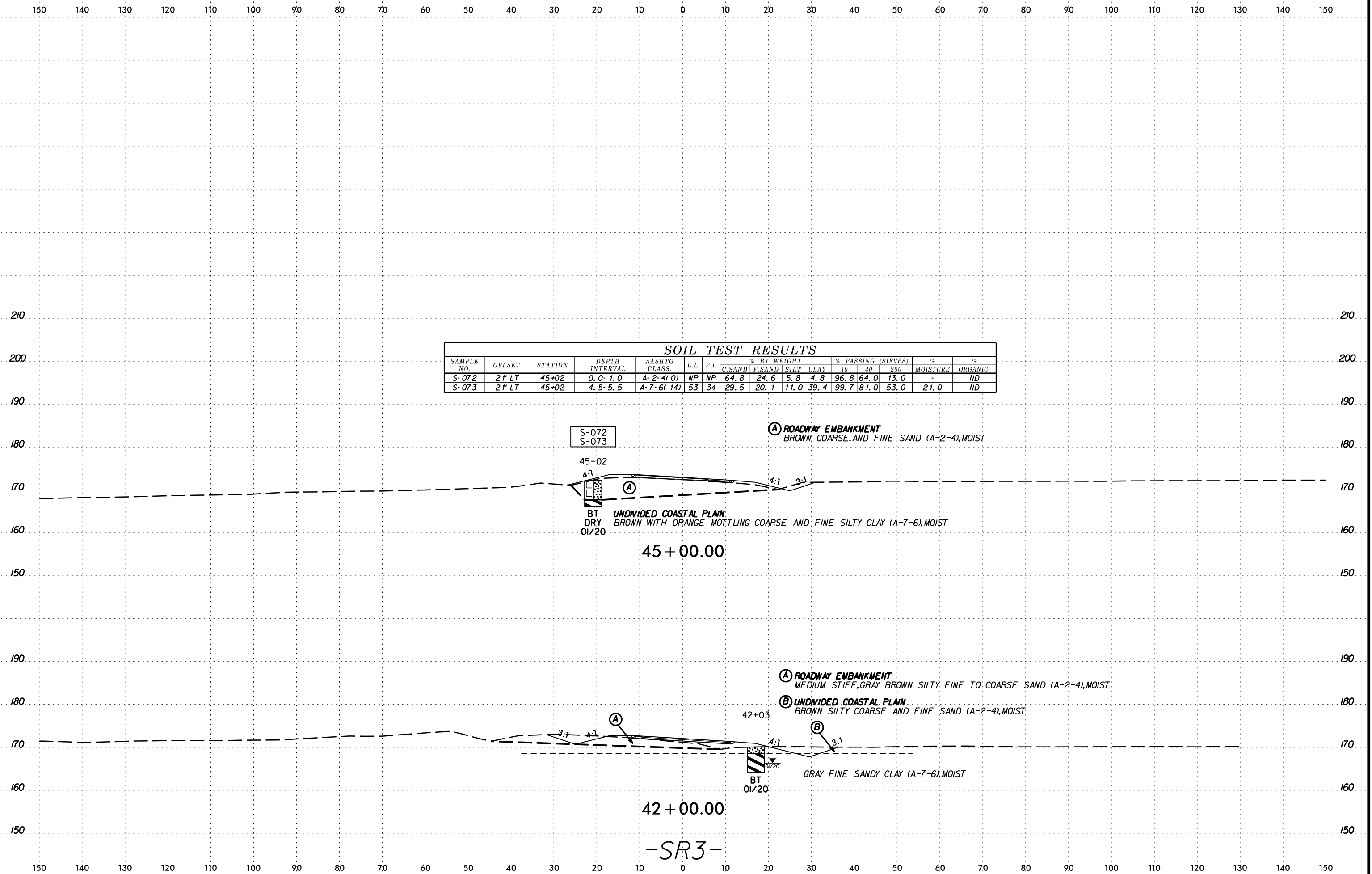
-SR3-

SCHEMATIC CONSTRUCTION PERMANENT



-SR3-

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-072	2' LT	45+02	0.0- 1.0	A-2-4(0)	NP	NP	64.8	24.6	5.8	4.8	96.8	64.0	13.0	-	ND
S-073	2' LT	45+02	4.5- 5.5	A-7-6(14)	53	34	29.5	20.1	11.0	39.4	99.7	81.0	53.0	21.0	ND

S-072
S-073

(A) ROADWAY EMBANKMENT
BROWN COARSE AND FINE SAND (A-2-4), MOIST

45+02
4:1

BT
DRY
01/20

(B) UNDIVIDED COASTAL PLAIN
BROWN WITH ORANGE MOTTLING COARSE AND FINE SILTY CLAY (A-7-6), MOIST

45 + 00.00

(A) ROADWAY EMBANKMENT
MEDIUM STIFF, GRAY BROWN SILTY FINE TO COARSE SAND (A-2-4), MOIST

(B) UNDIVIDED COASTAL PLAIN
BROWN SILTY COARSE AND FINE SAND (A-2-4), MOIST

42+03

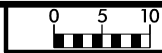
BT
01/20

GRAY FINE SANDY CLAY (A-7-6), MOIST

42 + 00.00

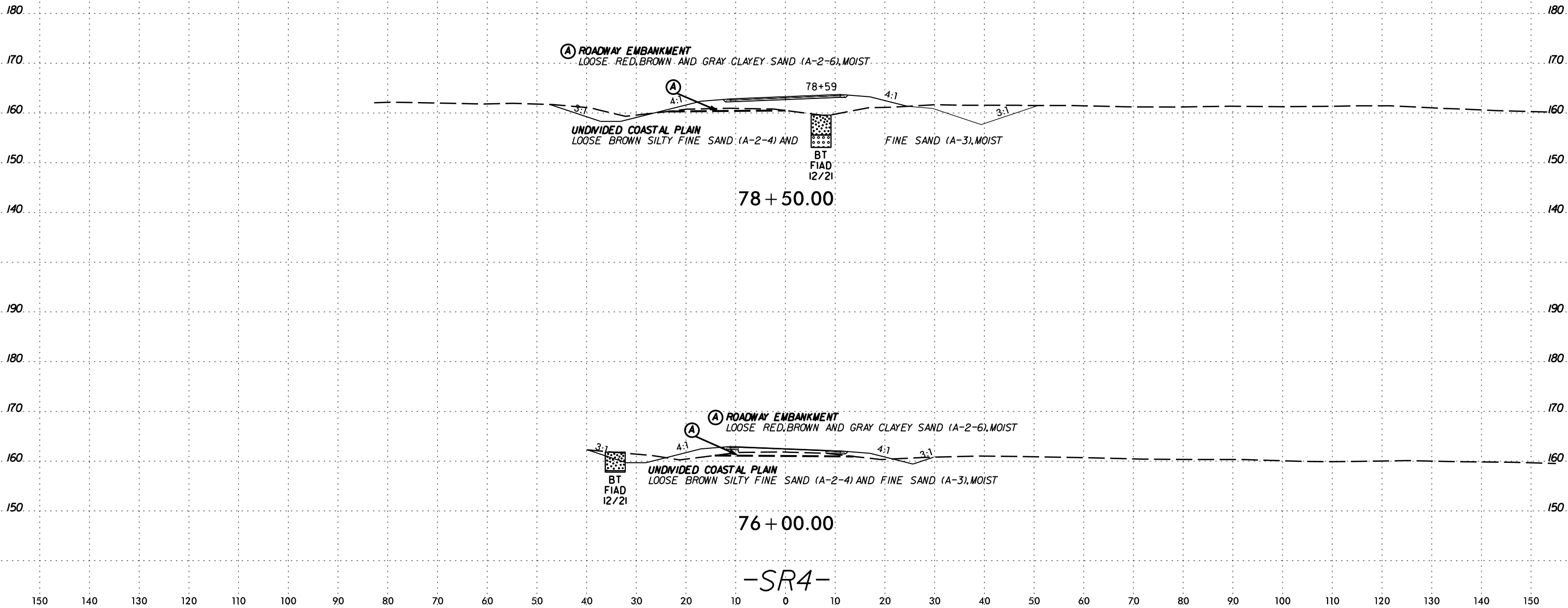
-SR3-

6/23/16



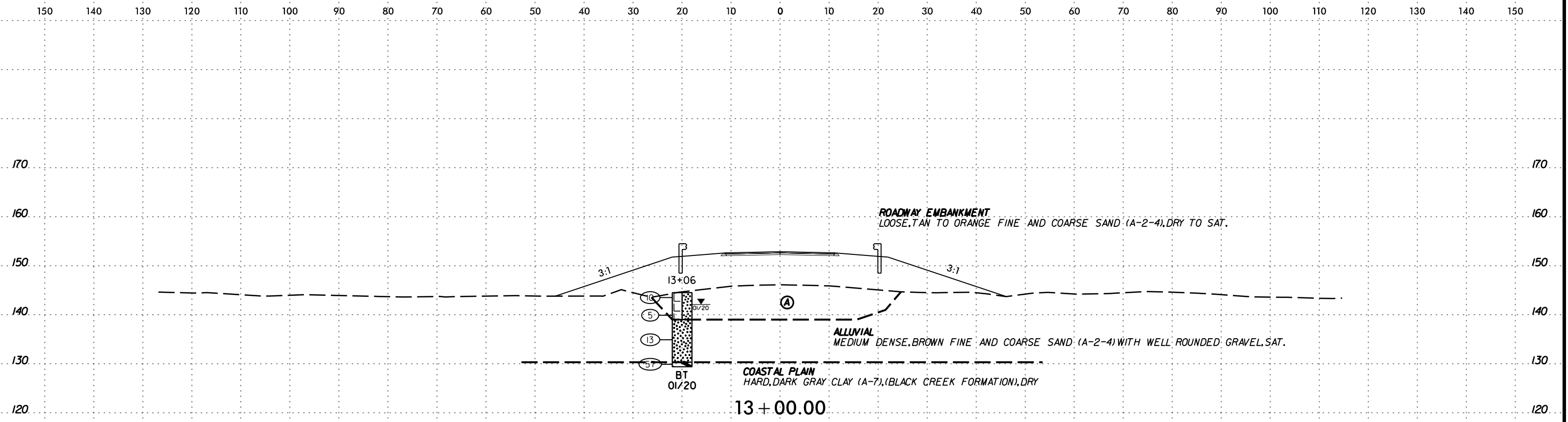
PROJ. REFERENCE NO.	SHEET NO.
I-5987B	341

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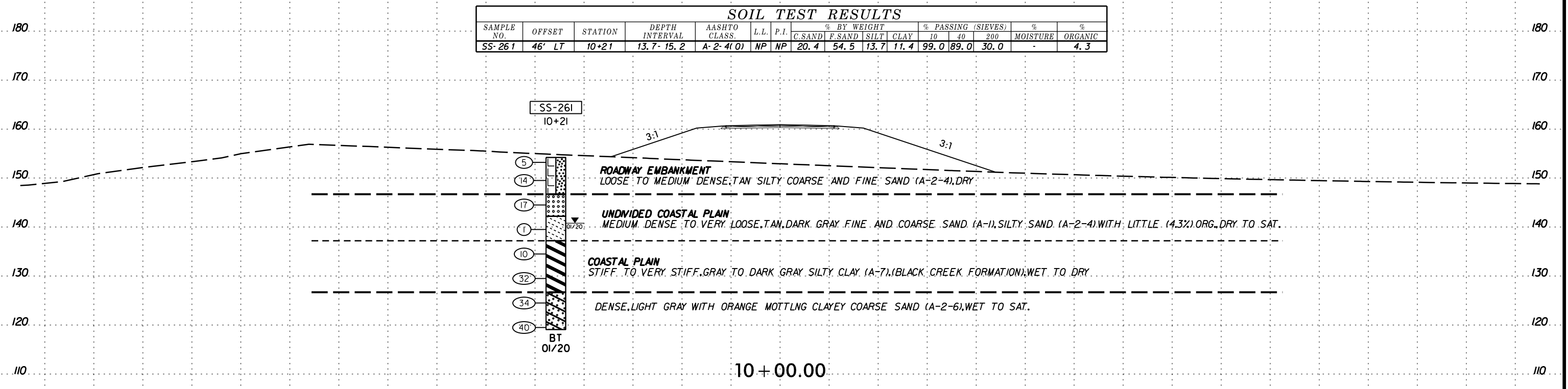


SYTIME CONSTRUCTION SERVICES

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-261	46' LT	10+21	13.7-15.2	A-2-4(O)	NP	NP	20.4	54.5	13.7	11.4	99.0	89.0	30.0	-	4.3



-SR5-

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

SUBSURFACE INVESTIGATION

***APPENDIX A
CPT LOGS***

SOME LOGS WERE REMOVED FROM THE FILE
BECAUSE THEY DID NOT APPEAR ON THIS PROJECT

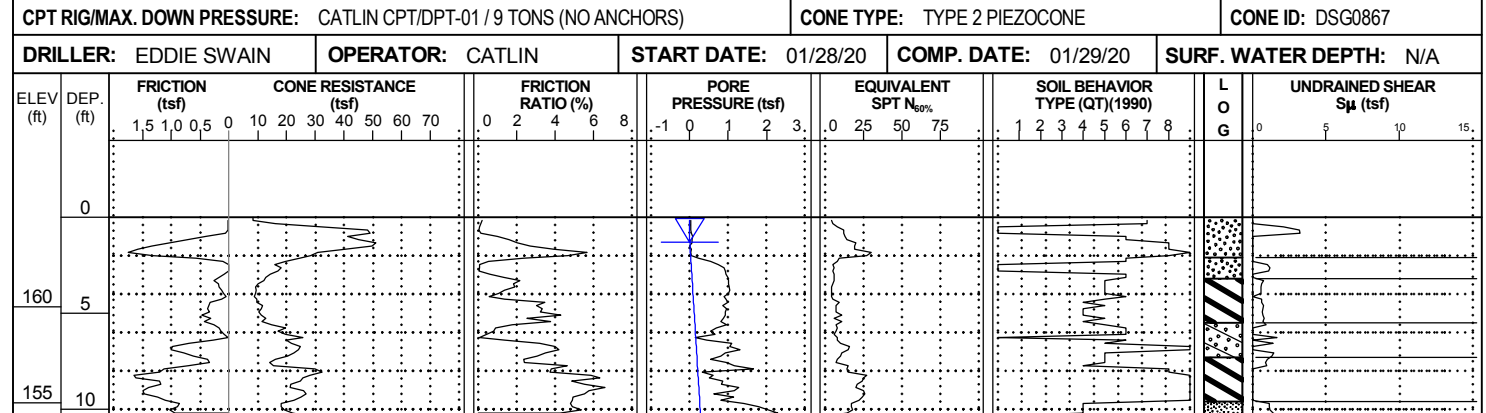
REFERENCE: I-5987B

PROJECT: 47533

CONE PENETROMETER TEST BORING REPORT

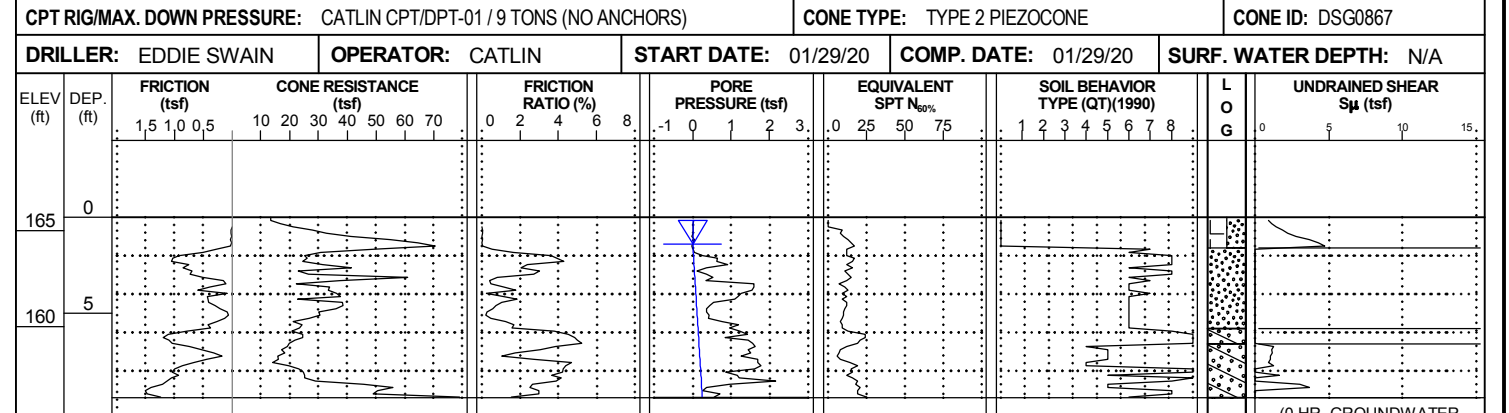


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_49700	STATION: 497+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 164.7 ft	TOTAL DEPTH: 10.4 ft	NORTHING: 374,591	EASTING: 2,001,374
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/28/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 154.3 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_50200	STATION: 502+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 165.7 ft	TOTAL DEPTH: 9.4 ft	NORTHING: 375,089	EASTING: 2,001,410
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.3 ft

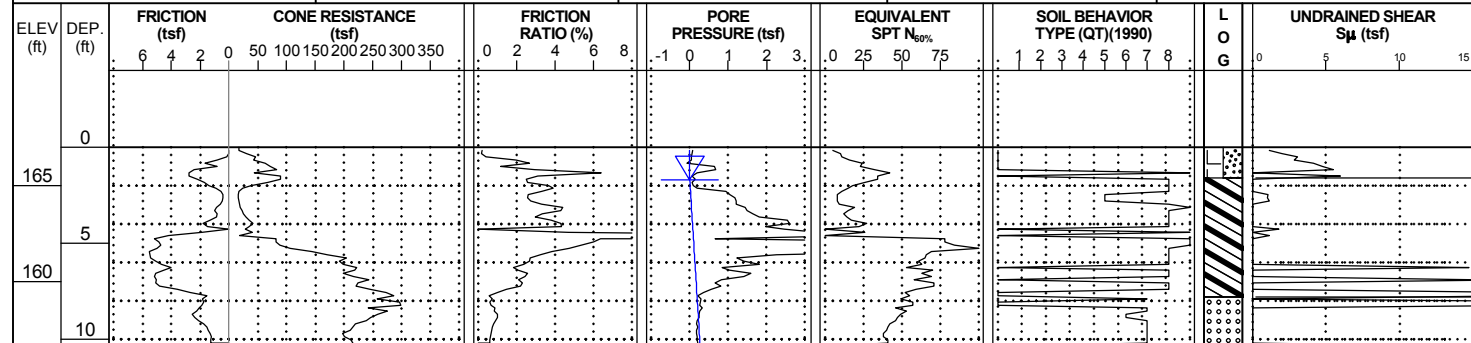
NCDOI CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT

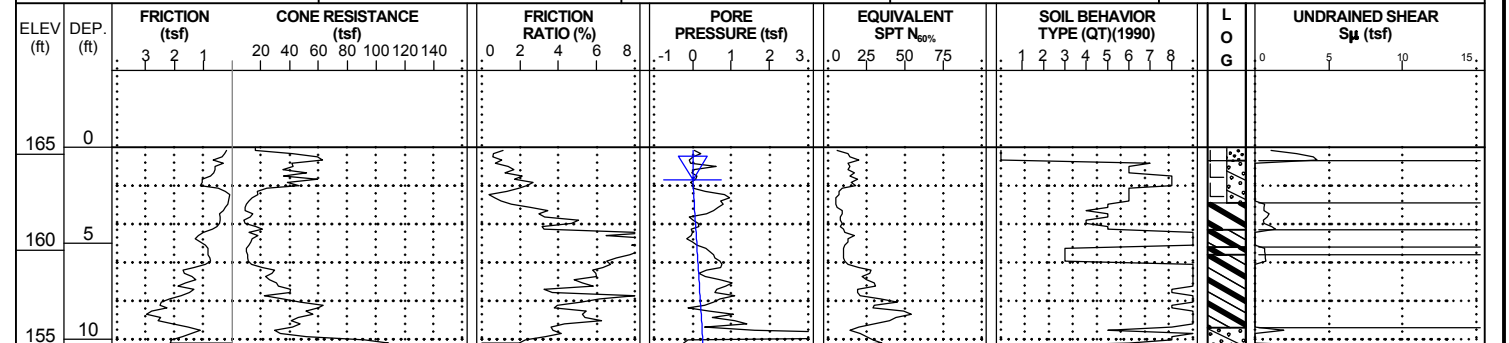


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_50700	STATION: 507+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 167.0 ft	TOTAL DEPTH: 10.4 ft	NORTHING: 375,588	EASTING: 2,001,445
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_51200	STATION: 512+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 165.4 ft	TOTAL DEPTH: 10.4 ft	NORTHING: 376,087	EASTING: 2,001,480
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.6 ft



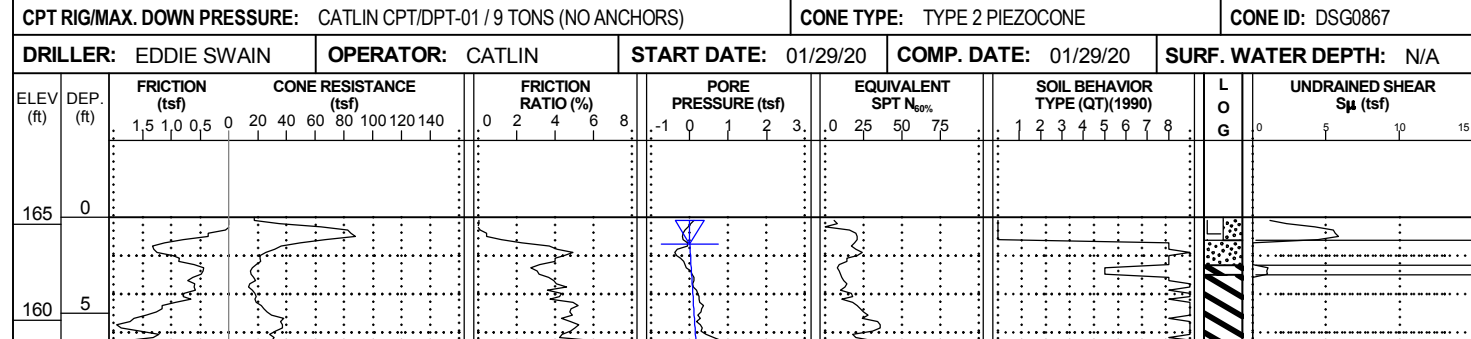
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 155.0 ft

NCDOI CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT

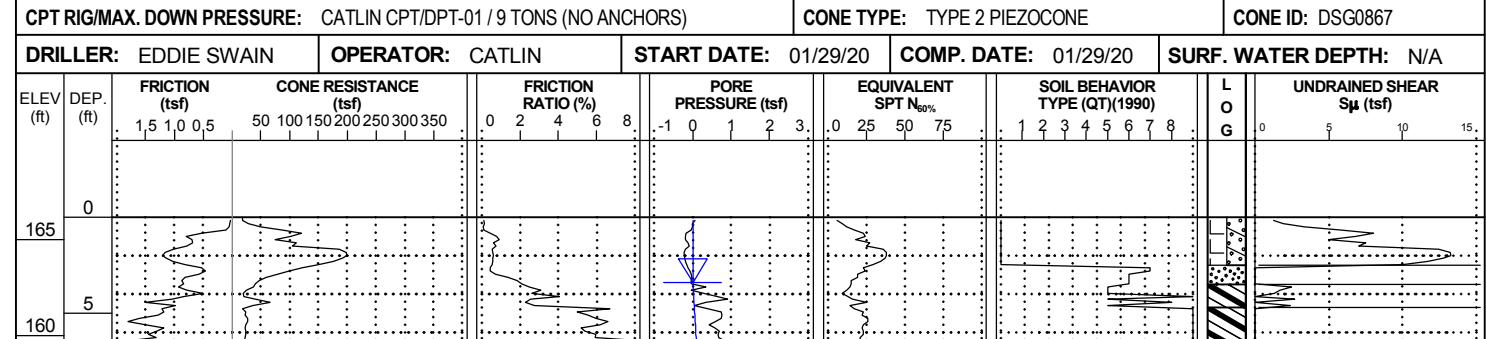


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_51700	STATION: 517+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 165.4 ft	TOTAL DEPTH: 6.5 ft	NORTHING: 376,586	EASTING: 2,001,516
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 158.9 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_52200	STATION: 522+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 166.1 ft	TOTAL DEPTH: 6.5 ft	NORTHING: 377,084	EASTING: 2,001,551
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



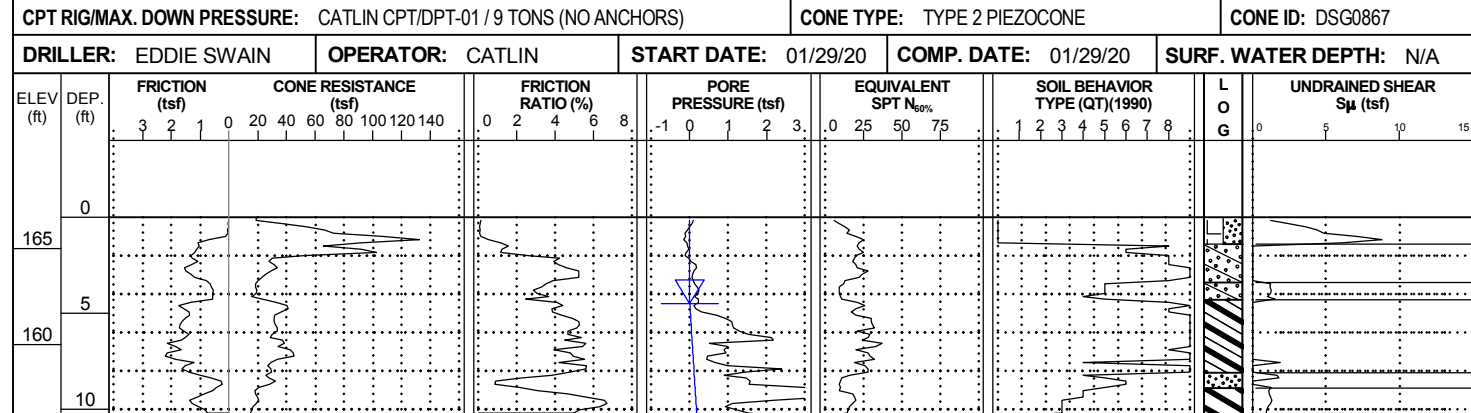
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 159.6 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT

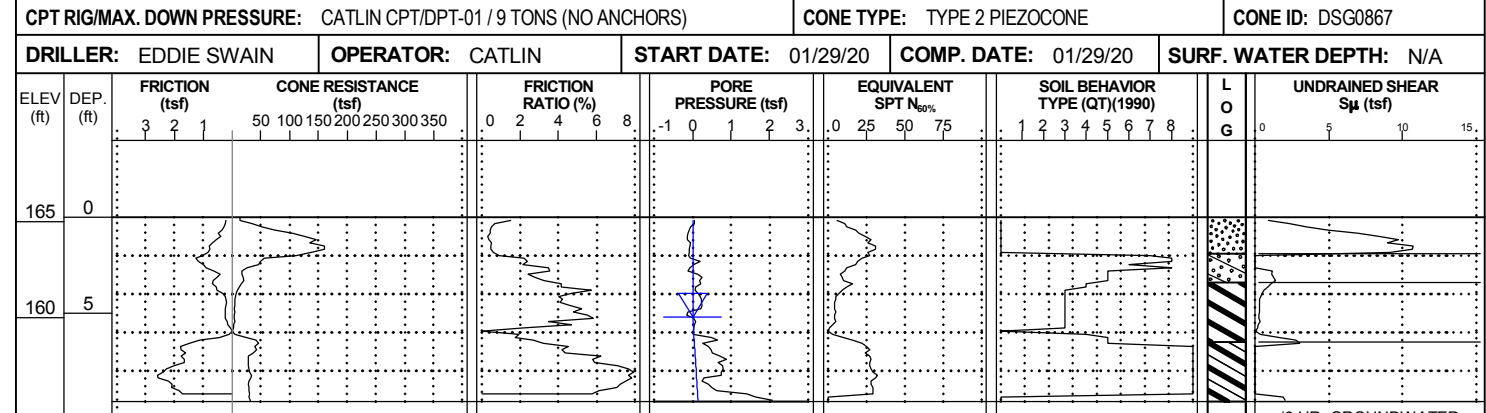


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_52700	STATION: 527+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 166.6 ft	TOTAL DEPTH: 10.5 ft	NORTHING: 377,583	EASTING: 2,001,586
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.1 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_53200	STATION: 532+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 165.2 ft	TOTAL DEPTH: 9.6 ft	NORTHING: 378,082	EASTING: 2,001,622
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



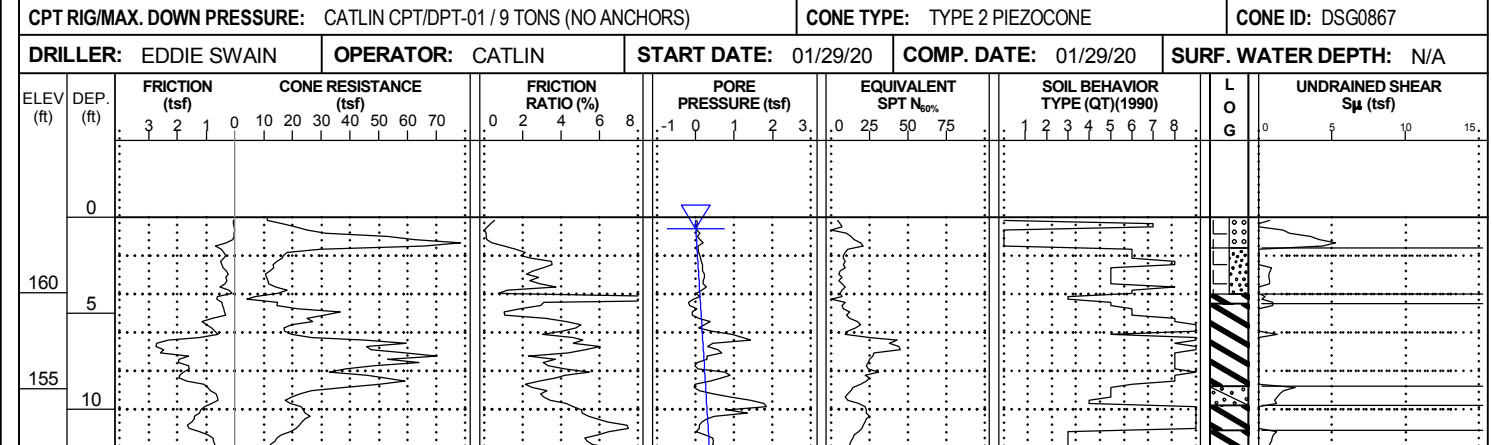
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 155.6 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

CONE PENETROMETER TEST BORING REPORT

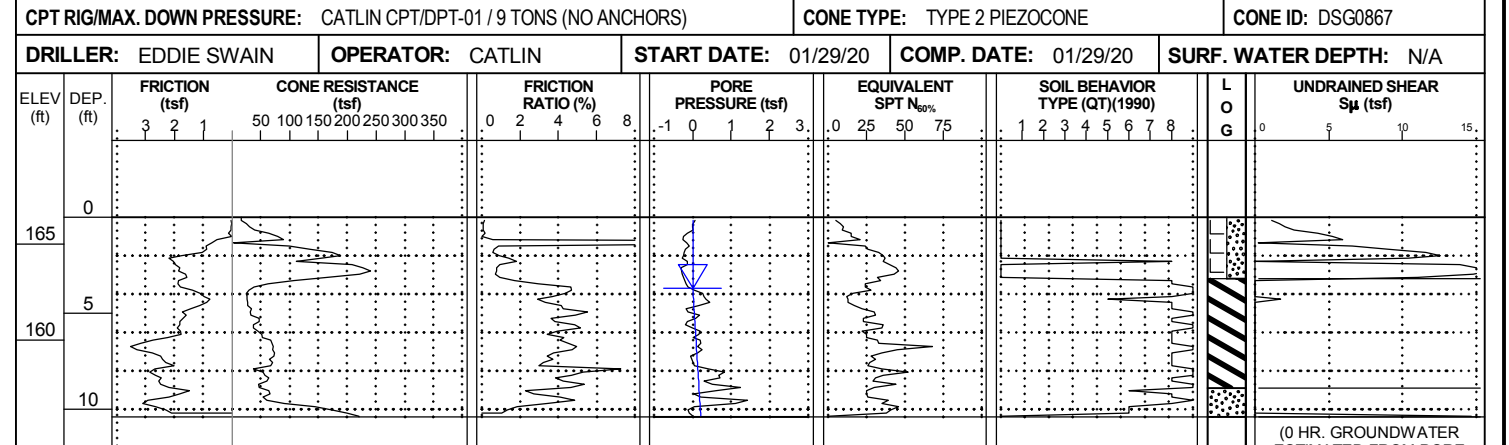


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_53700	STATION: 537+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 163.9 ft	TOTAL DEPTH: 12.4 ft	NORTHING: 378,581	EASTING: 2,001,657
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 151.5 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_54200	STATION: 542+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 166.4 ft	TOTAL DEPTH: 10.4 ft	NORTHING: 379,078	EASTING: 2,001,709
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.0 ft

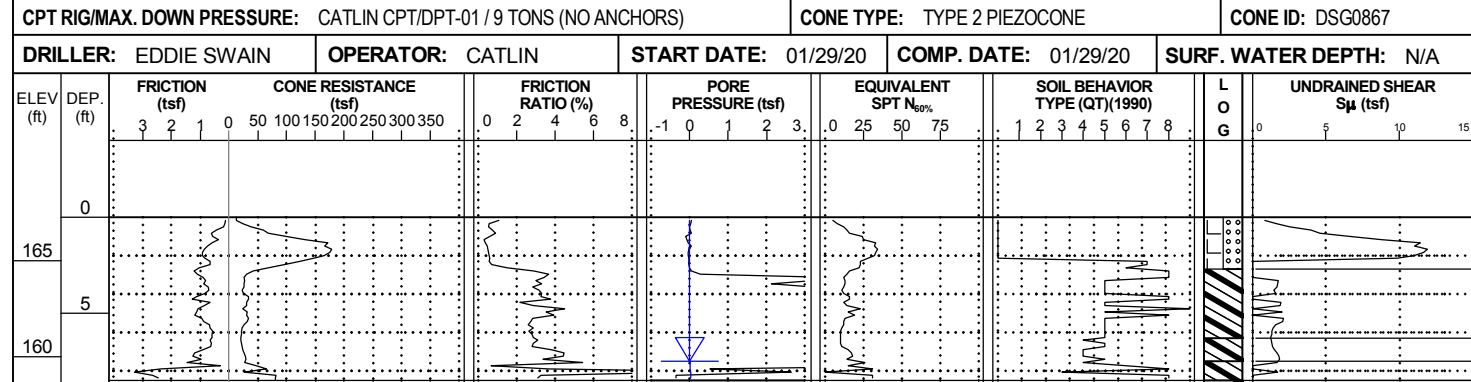
PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



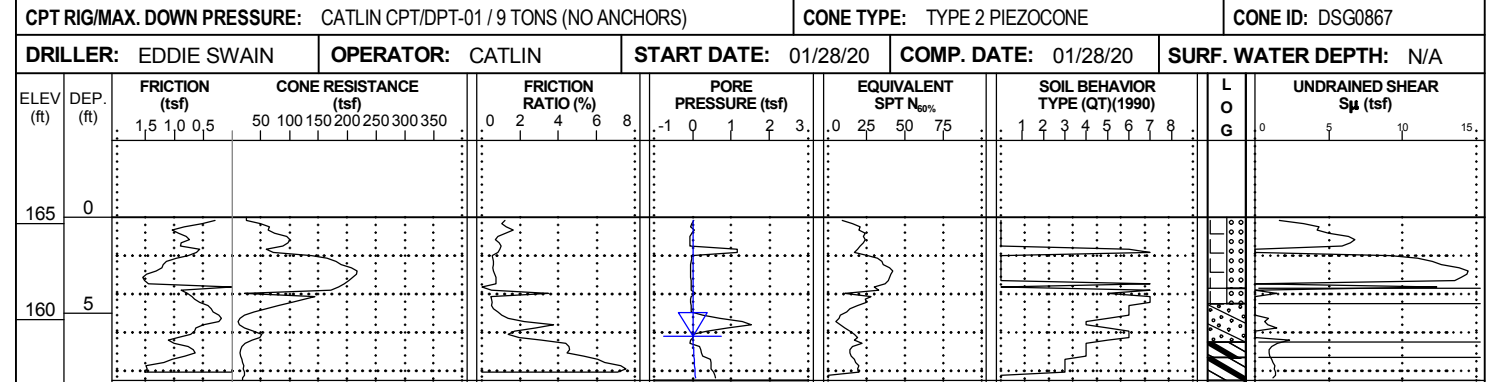
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_54700	STATION: 547+00	OFFSET: CL	ALIGNMENT: -L-
COLLAR ELEV.: 167.2 ft	TOTAL DEPTH: 8.5 ft	NORTHING: 379,569	EASTING: 2,001,803
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/29/20	COMP. DATE: 01/29/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 158.7 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_55200_LT	STATION: 552+00	OFFSET: 85 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 165.3 ft	TOTAL DEPTH: 8.5 ft	NORTHING: 380,076	EASTING: 2,001,859
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/28/20	COMP. DATE: 01/28/20
		SURF. WATER DEPTH: N/A	



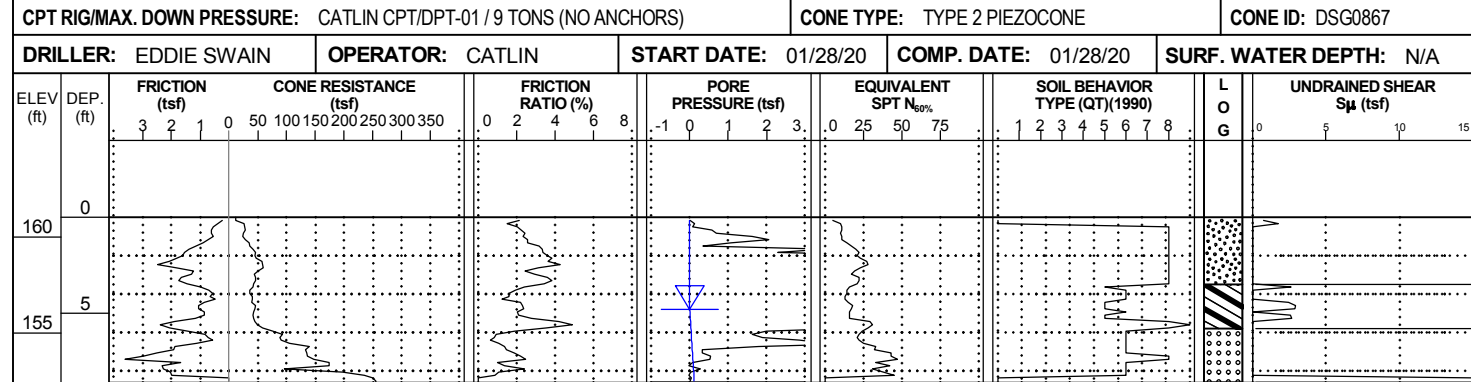
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.8 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



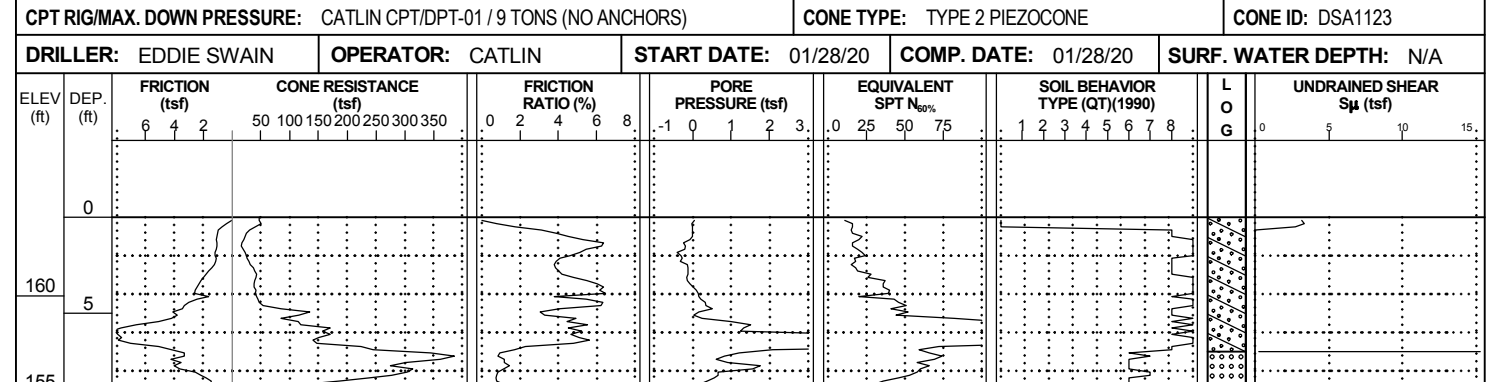
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_55700_LT	STATION: 557+00	OFFSET: 80 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 161.0 ft	TOTAL DEPTH: 8.6 ft	NORTHING: 380,548	EASTING: 2,002,031
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/28/20	COMP. DATE: 01/28/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 152.4 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_56200_LT	STATION: 562+00	OFFSET: 93 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 164.1 ft	TOTAL DEPTH: 10.5 ft	NORTHING: 381,023	EASTING: 2,002,186
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/28/20	COMP. DATE: 01/28/20
		SURF. WATER DEPTH: N/A	



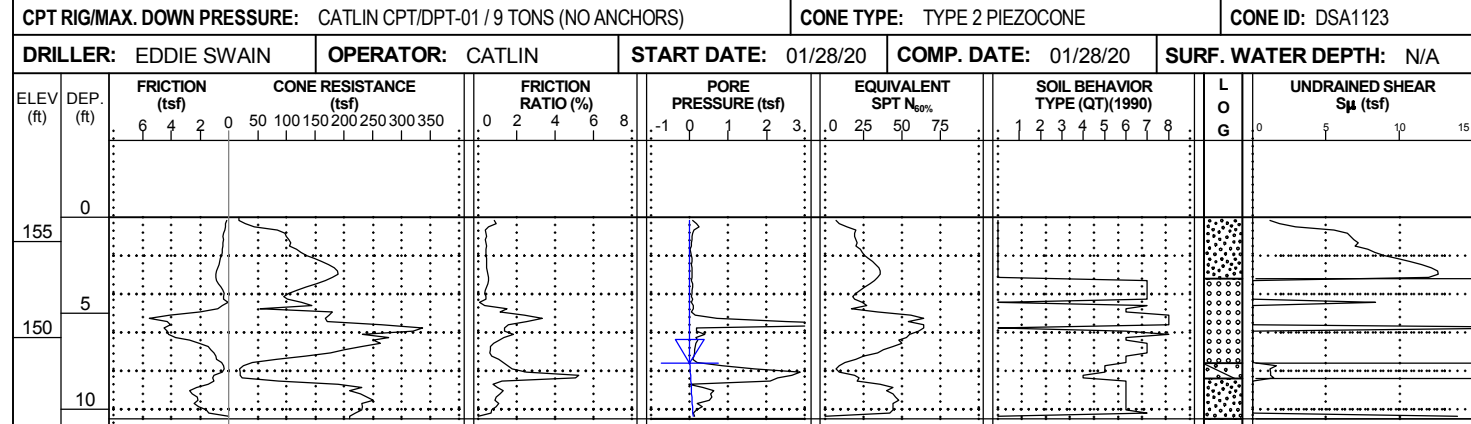
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 153.6 ft

NCDOI CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT

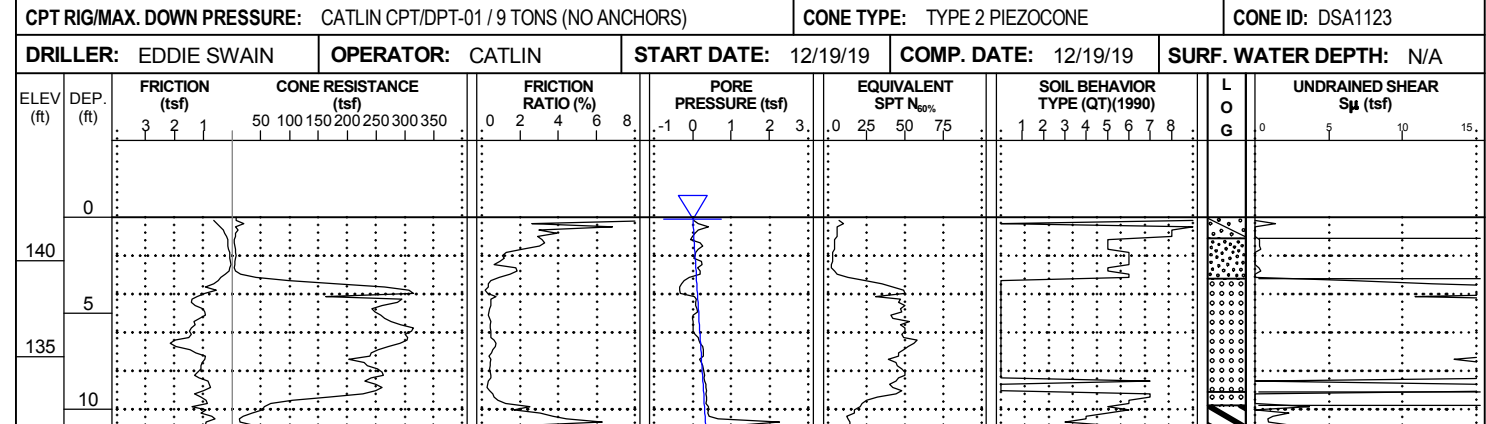


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_56700_LT	STATION: 567+00	OFFSET: 70 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 156.3 ft	TOTAL DEPTH: 10.5 ft	NORTHING: 381,487	EASTING: 2,002,375
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 01/28/20	COMP. DATE: 01/28/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 145.8 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_57700_LT	STATION: 577+00	OFFSET: 90 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 142.3 ft	TOTAL DEPTH: 14.5 ft	NORTHING: 382,435	EASTING: 2,002,692
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 12/19/19	COMP. DATE: 12/19/19
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 127.8 ft

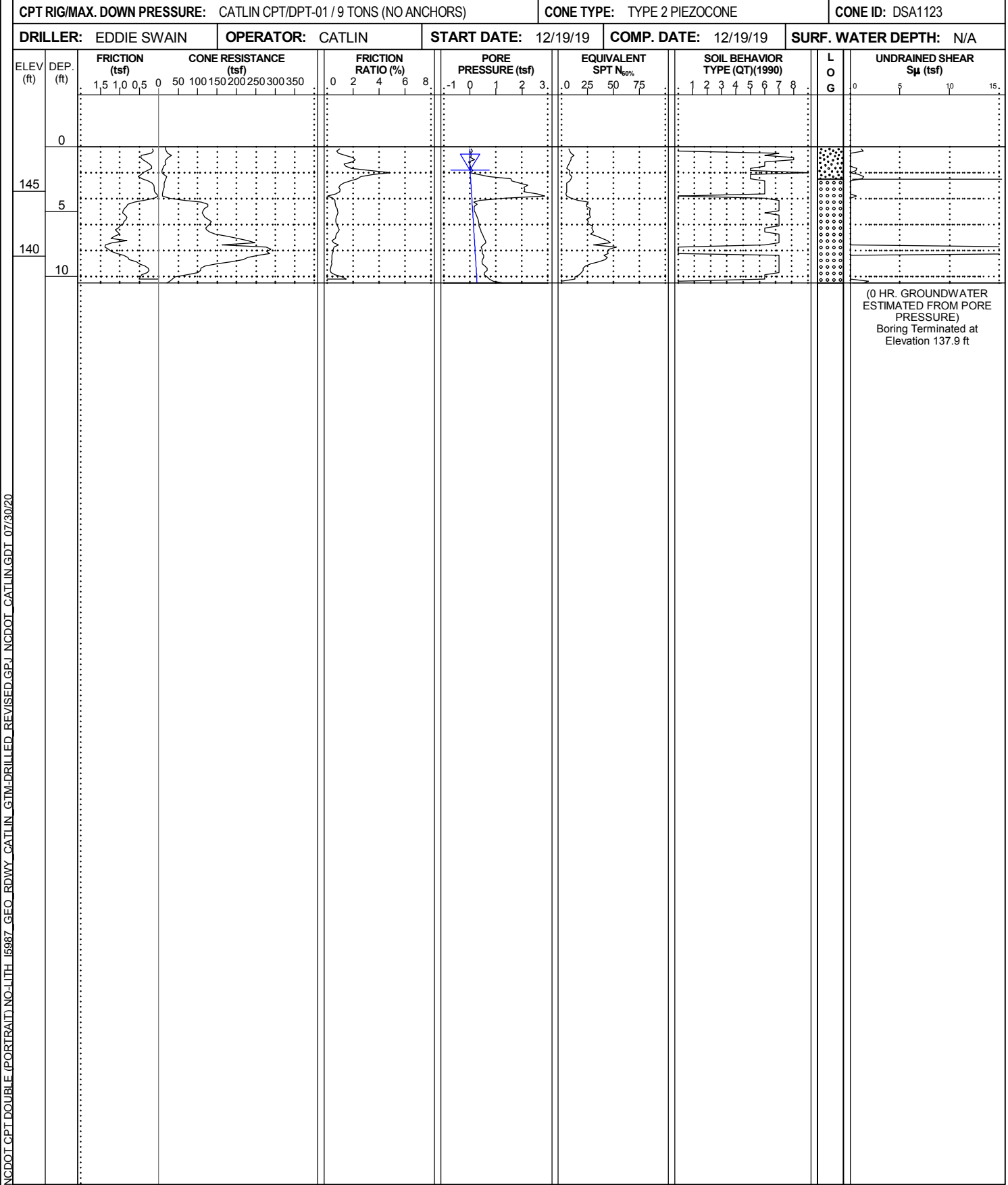
PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

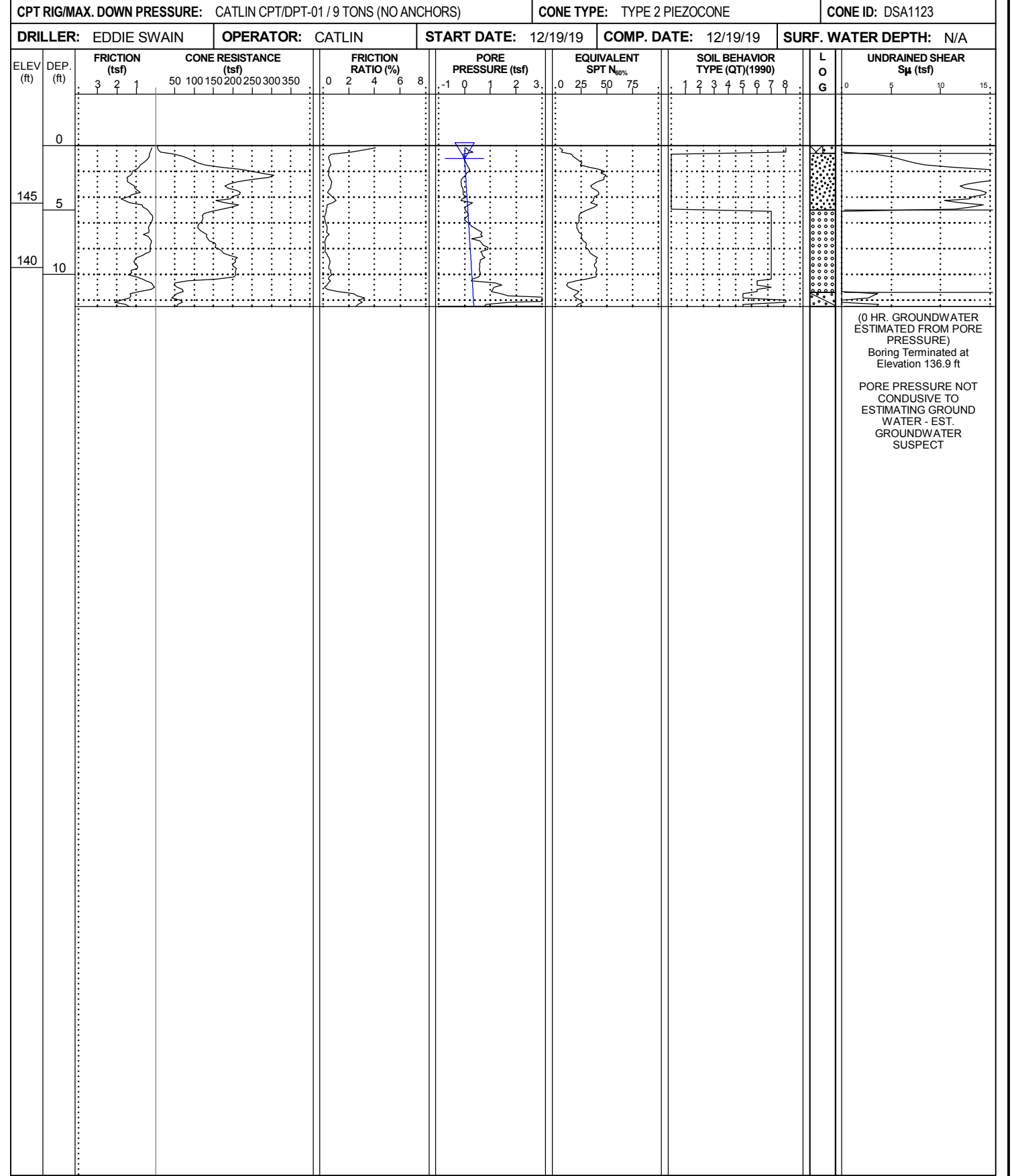
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_59200_LT	STATION: 592+00	OFFSET: 74 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 148.4 ft	TOTAL DEPTH: 10.5 ft	NORTHING: 383,843	EASTING: 2,003,210
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 12/19/19	COMP. DATE: 12/19/19
SURF. WATER DEPTH: N/A			



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_59700_LT	STATION: 597+00	OFFSET: 90 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 149.4 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 384,320	EASTING: 2,003,362
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 12/19/19	COMP. DATE: 12/19/19
SURF. WATER DEPTH: N/A			

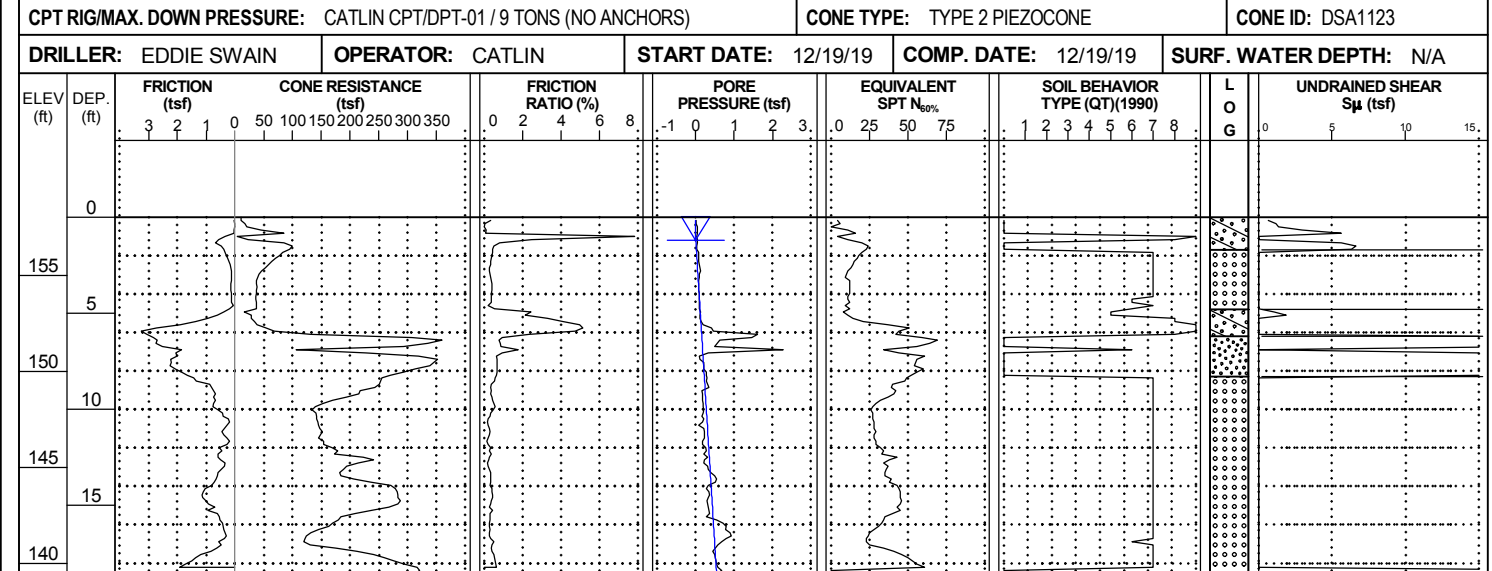


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



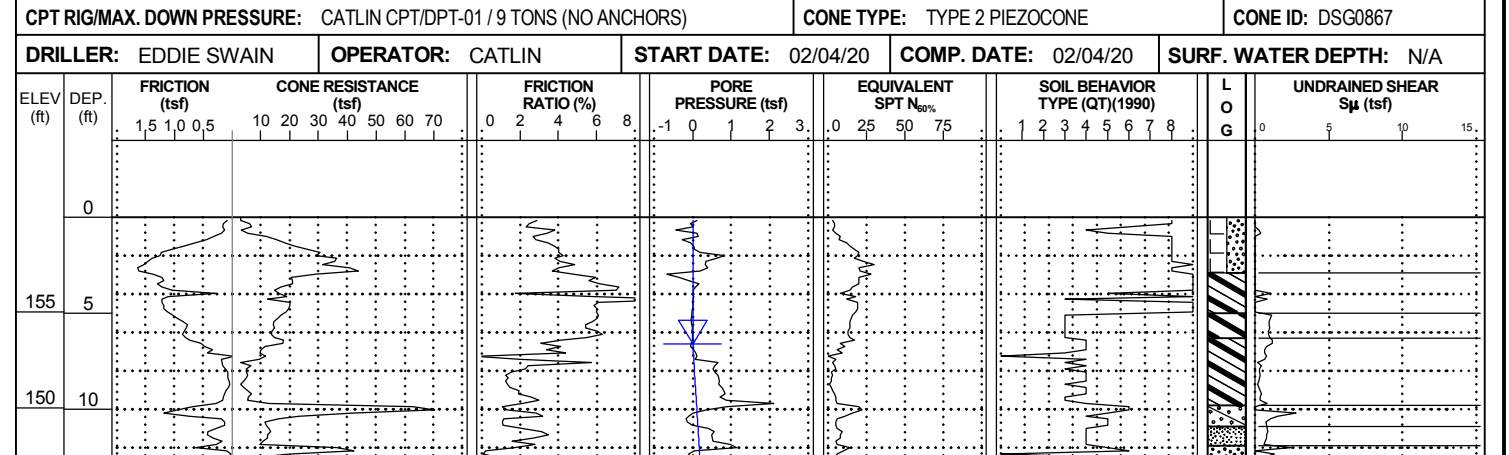
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_60200_LT	STATION: 602+00	OFFSET: 85 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 158.0 ft	TOTAL DEPTH: 18.6 ft	NORTHING: 384,789	EASTING: 2,003,534
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSA1123
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 12/19/19	COMP. DATE: 12/19/19
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 139.4 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_63200_RT	STATION: 632+00	OFFSET: 80 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 159.9 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 387,613	EASTING: 2,004,557
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/04/20	COMP. DATE: 02/04/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 147.4 ft

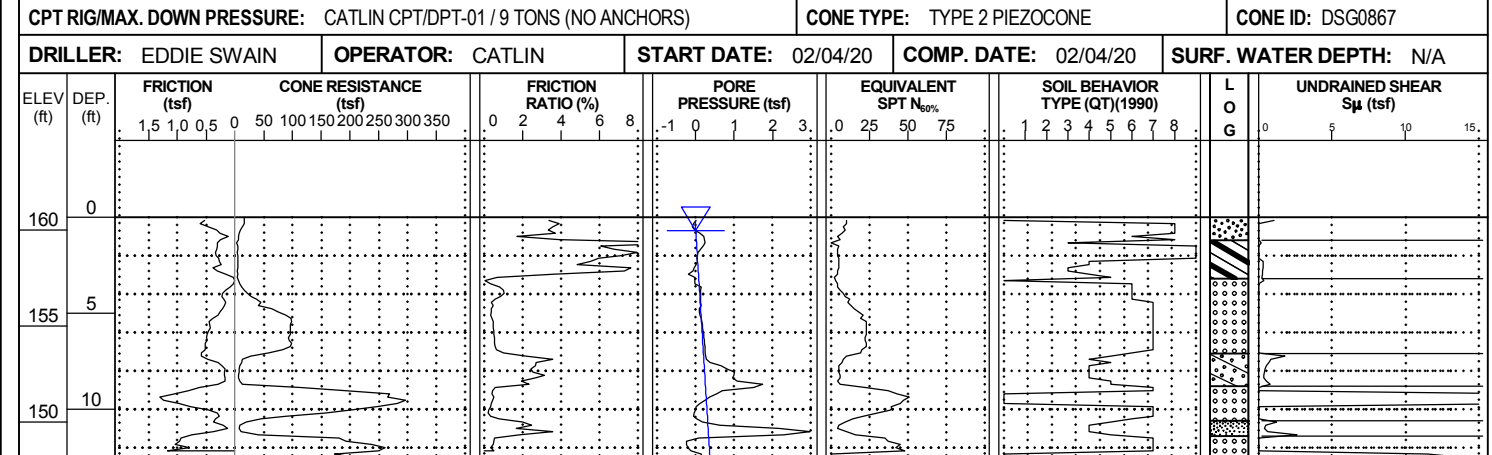
PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



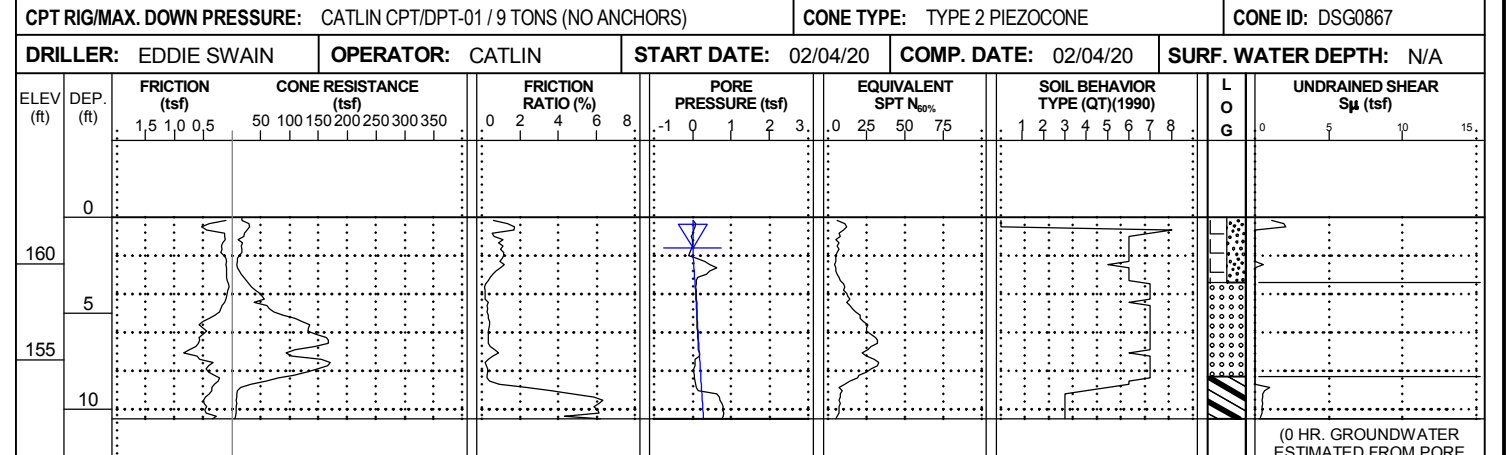
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_63700_RT	STATION: 637+00	OFFSET: 80 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 160.7 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 388,105	EASTING: 2,004,641
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/04/20	COMP. DATE: 02/04/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 148.2 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_64200_RT	STATION: 642+00	OFFSET: 80 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 162.4 ft	TOTAL DEPTH: 10.5 ft	NORTHING: 388,598	EASTING: 2,004,725
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/04/20	COMP. DATE: 02/04/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 151.9 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

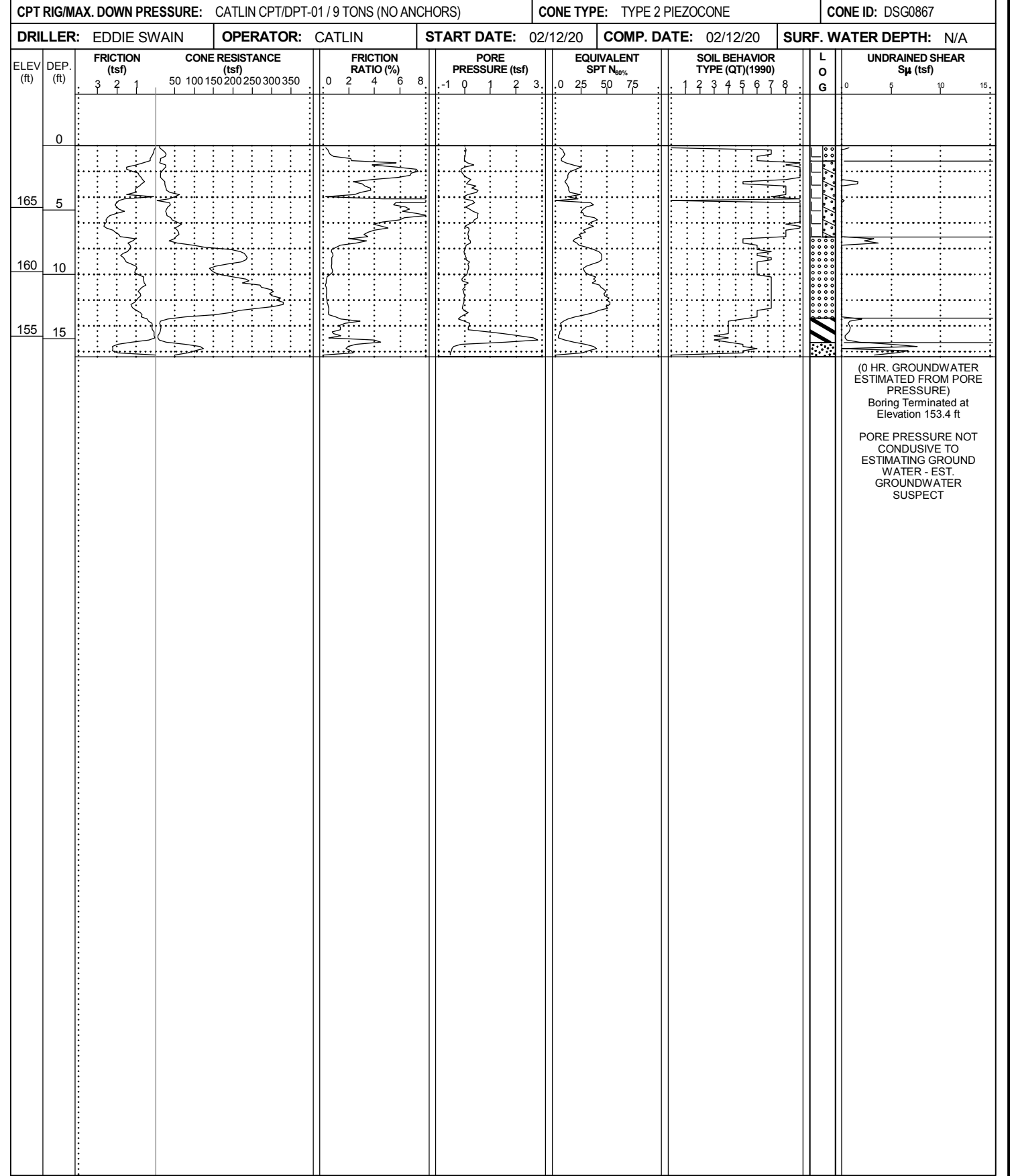
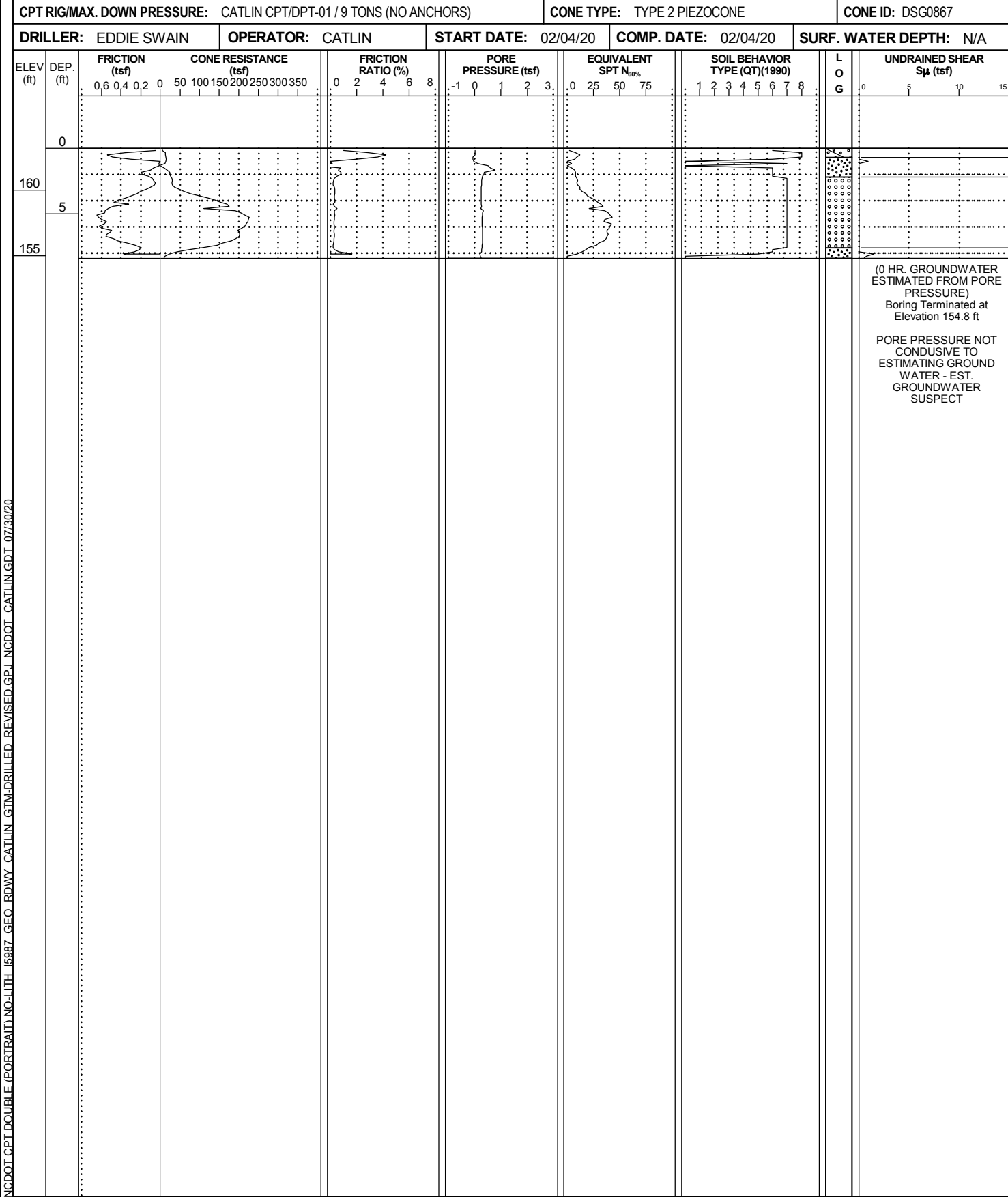
NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_64700_RT	STATION: 647+00	OFFSET: 90 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 163.2 ft	TOTAL DEPTH: 8.4 ft	NORTHING: 389,089	EASTING: 2,004,819
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/04/20	COMP. DATE: 02/04/20
EST. 0 HR. Dry		24 HR. N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_71200_RT	STATION: 712+00	OFFSET: 81 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 169.8 ft	TOTAL DEPTH: 16.4 ft	NORTHING: 395,052	EASTING: 2,006,991
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
EST. 0 HR. Dry		24 HR. N/A	

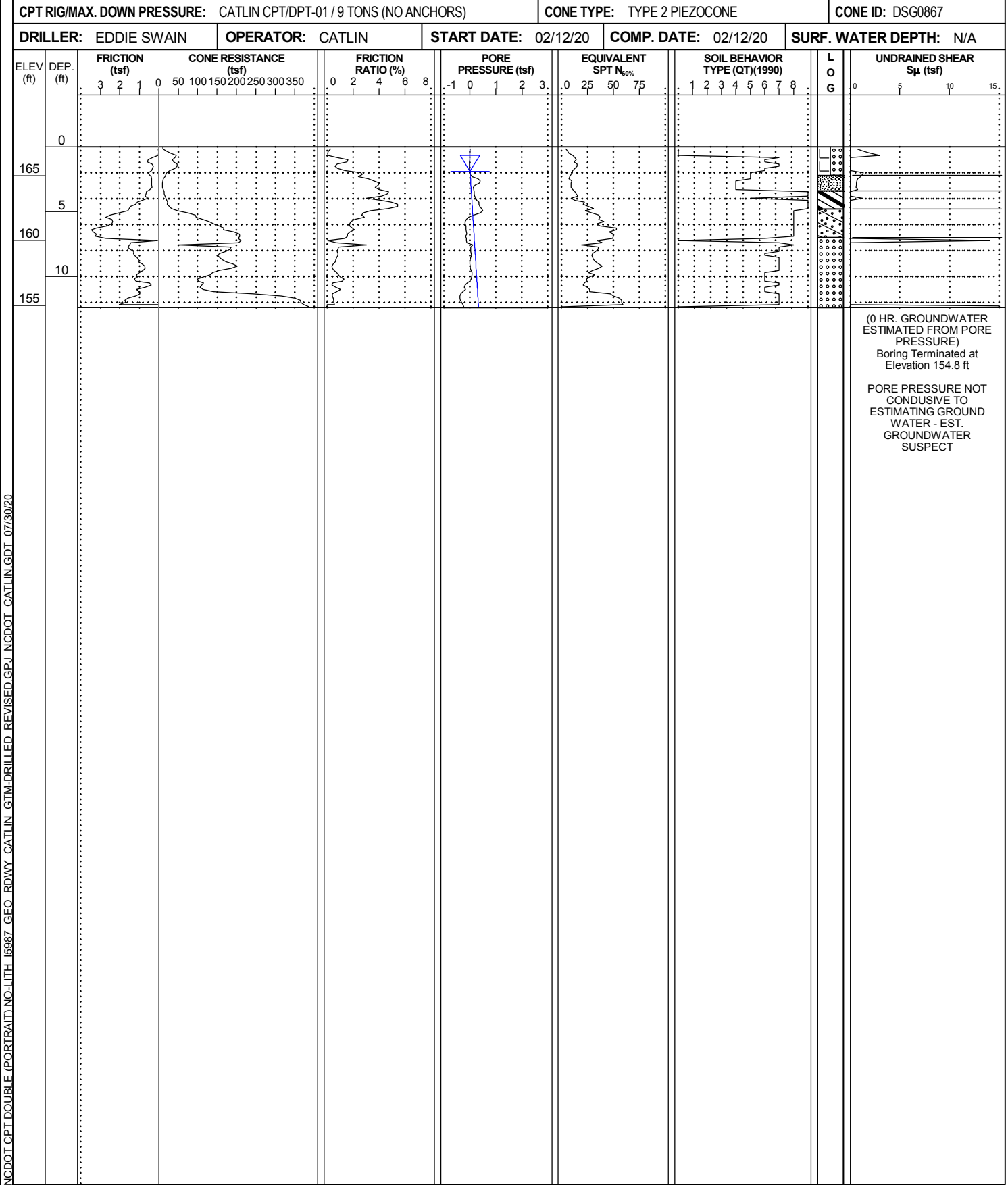


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987 GEO ROWAY CATLIN_GIM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

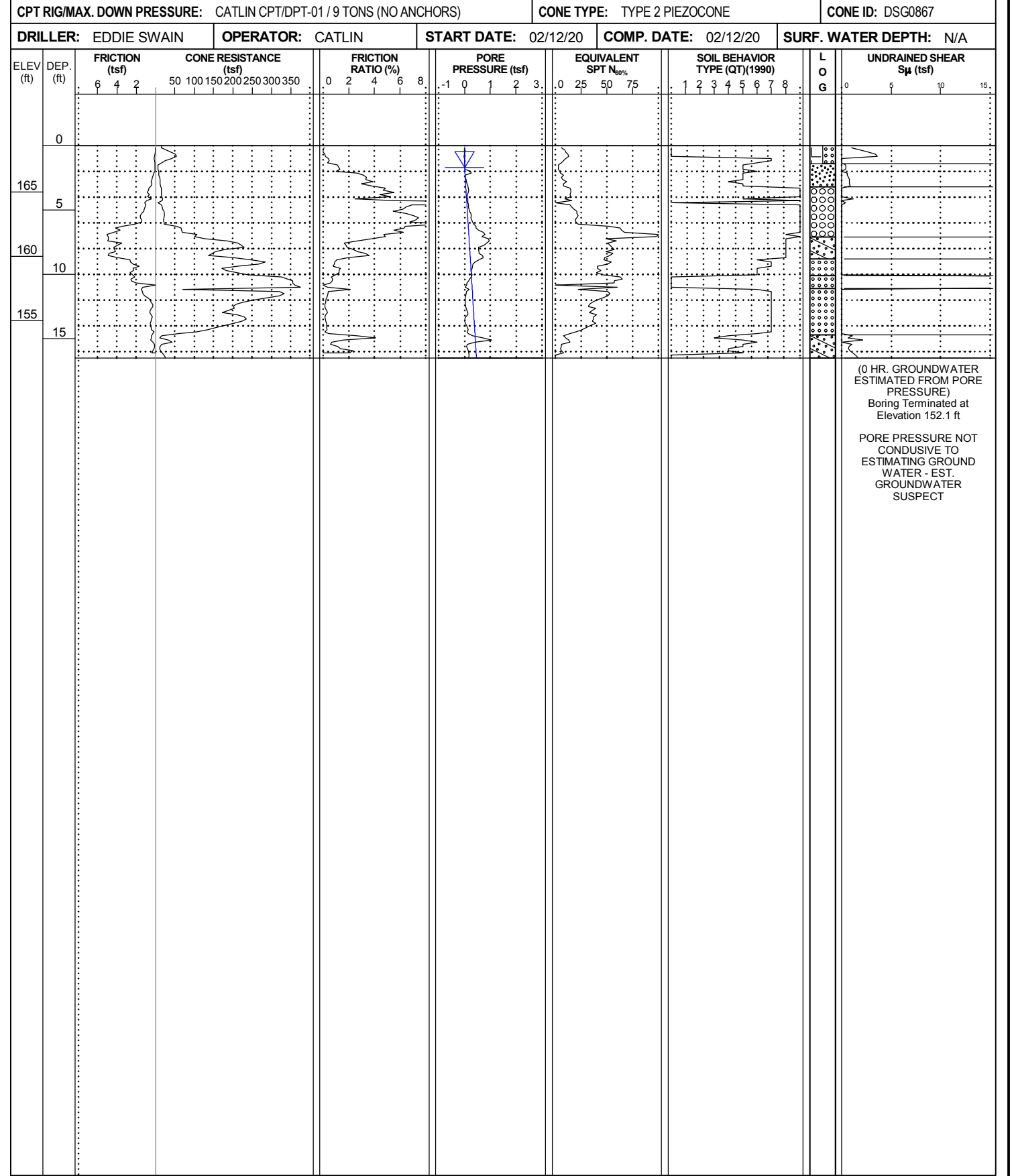
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_71700_RT	STATION: 717+00	OFFSET: 80 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 167.2 ft	TOTAL DEPTH: 12.4 ft	NORTHING: 395,464	EASTING: 2,007,274
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
SURF. WATER DEPTH: N/A			



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_72200_RT	STATION: 722+00	OFFSET: 83 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 168.6 ft	TOTAL DEPTH: 16.5 ft	NORTHING: 395,883	EASTING: 2,007,554
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
SURF. WATER DEPTH: N/A			

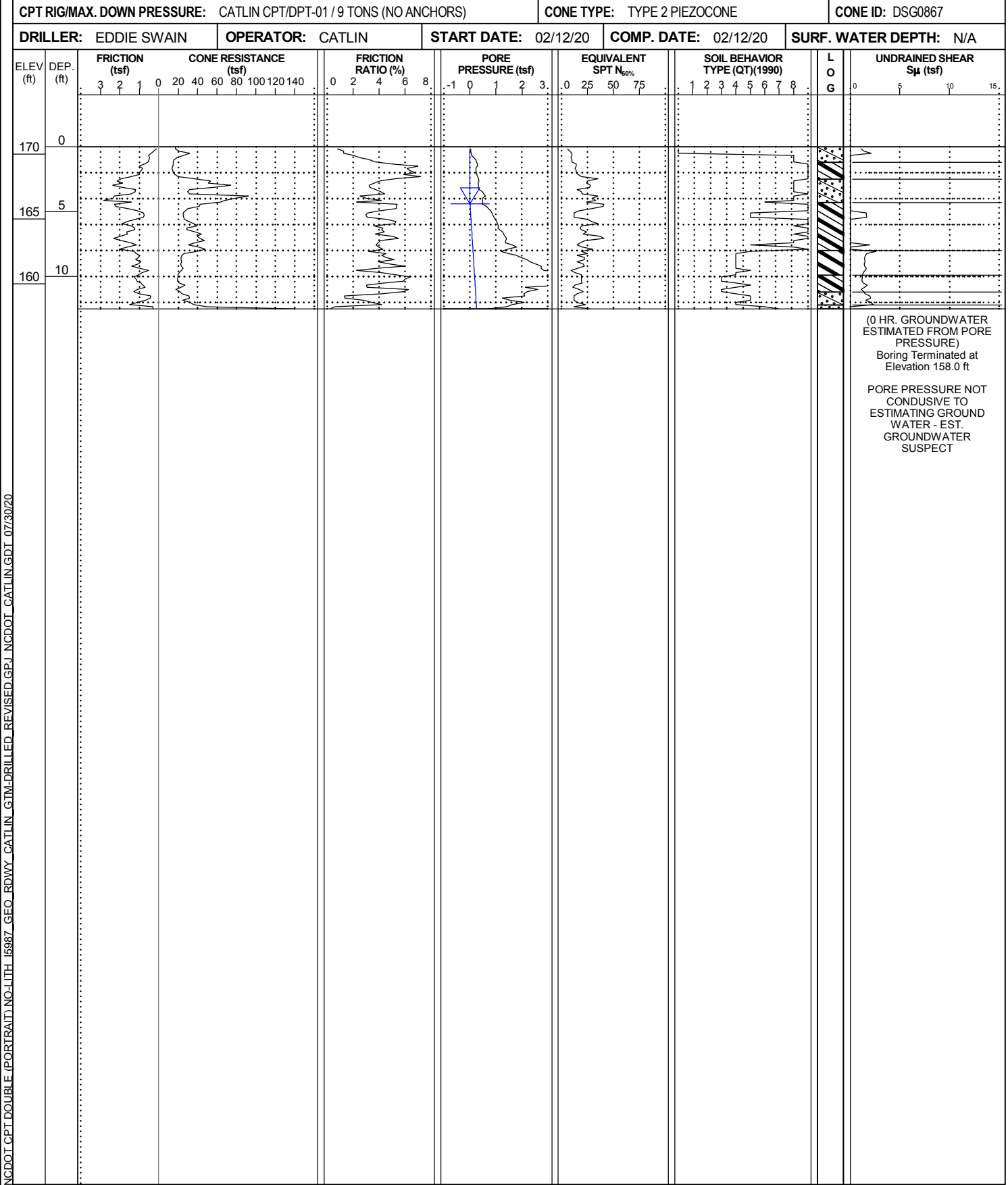


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

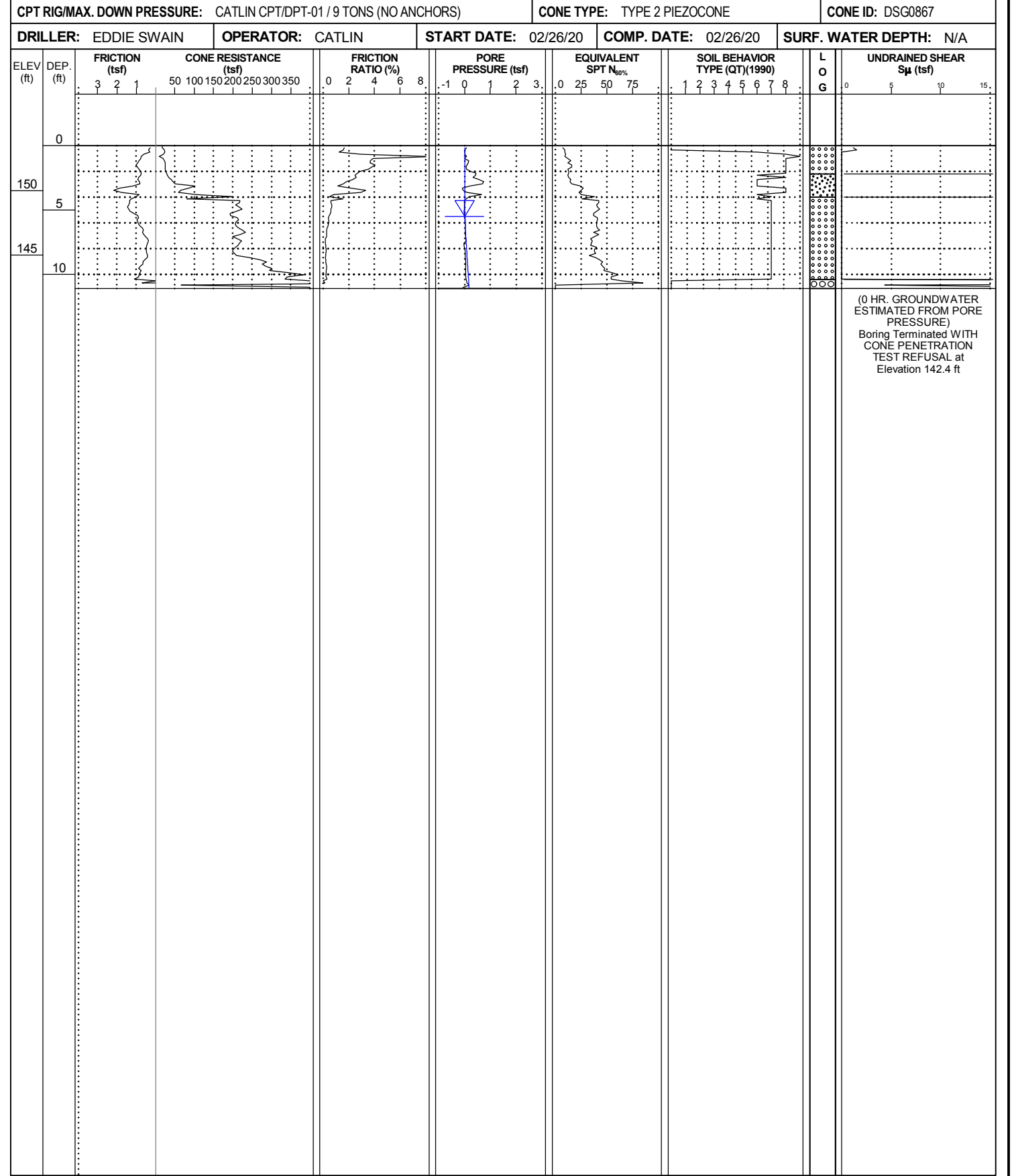
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_72700_RT	STATION: 727+00	OFFSET: 82 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 170.5 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 396,320	EASTING: 2,007,807
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_78700_LT	STATION: 787+00	OFFSET: 85 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 153.5 ft	TOTAL DEPTH: 11.1 ft	NORTHING: 401,939	EASTING: 2,009,907
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	

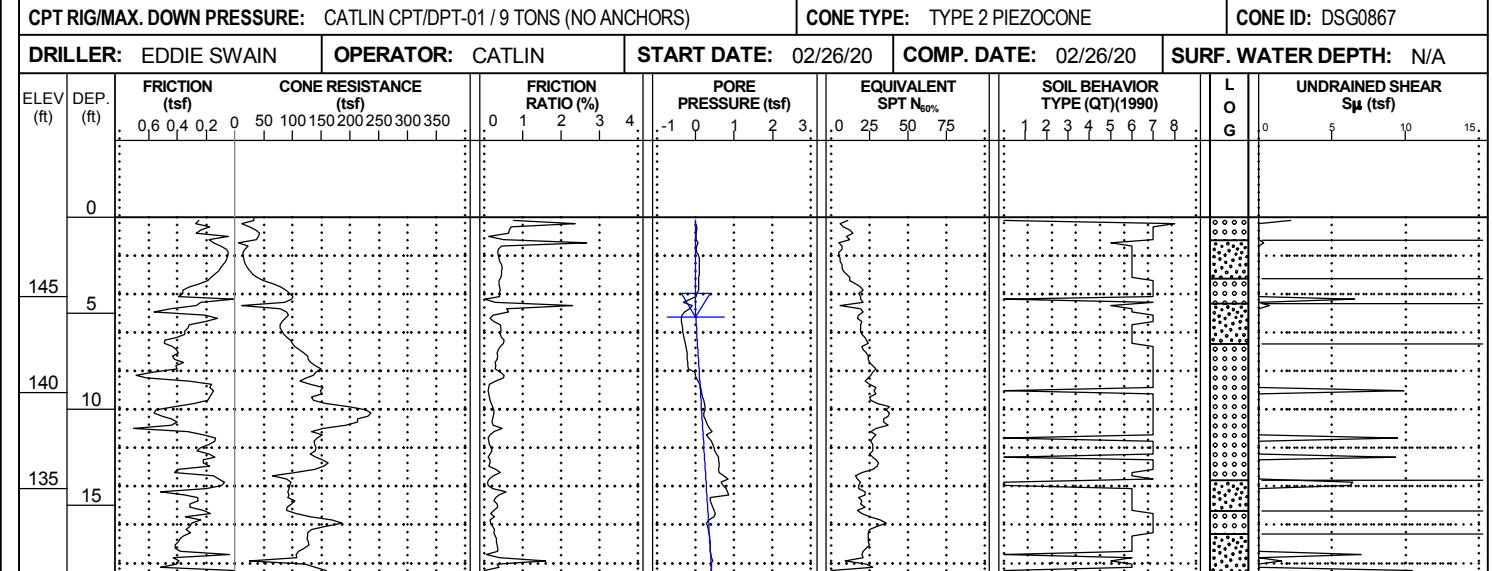


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987 GEO ROWAY CATLIN_GTM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

CONE PENETROMETER TEST BORING REPORT

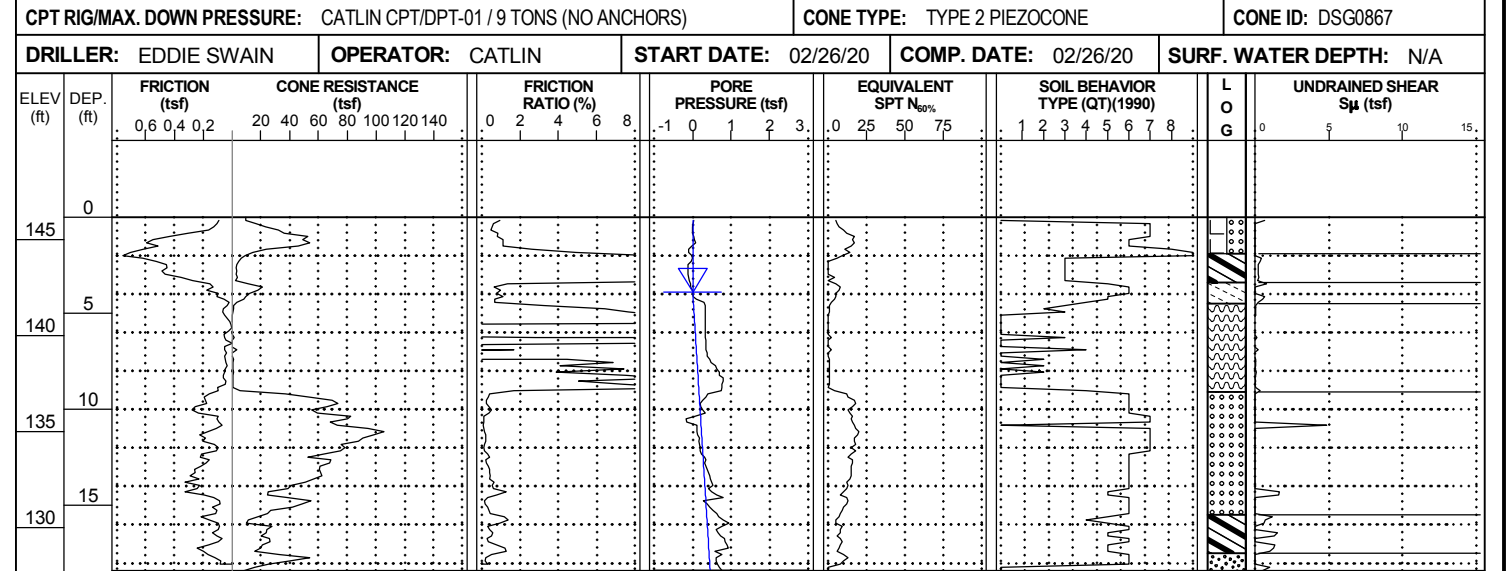


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_79200_LT	STATION: 792+00	OFFSET: 75 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 149.1 ft	TOTAL DEPTH: 18.5 ft	NORTHING: 402,416	EASTING: 2,010,038
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 130.6 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_79700_LT	STATION: 797+00	OFFSET: 75 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 146.1 ft	TOTAL DEPTH: 18.4 ft	NORTHING: 402,903	EASTING: 2,010,128
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	



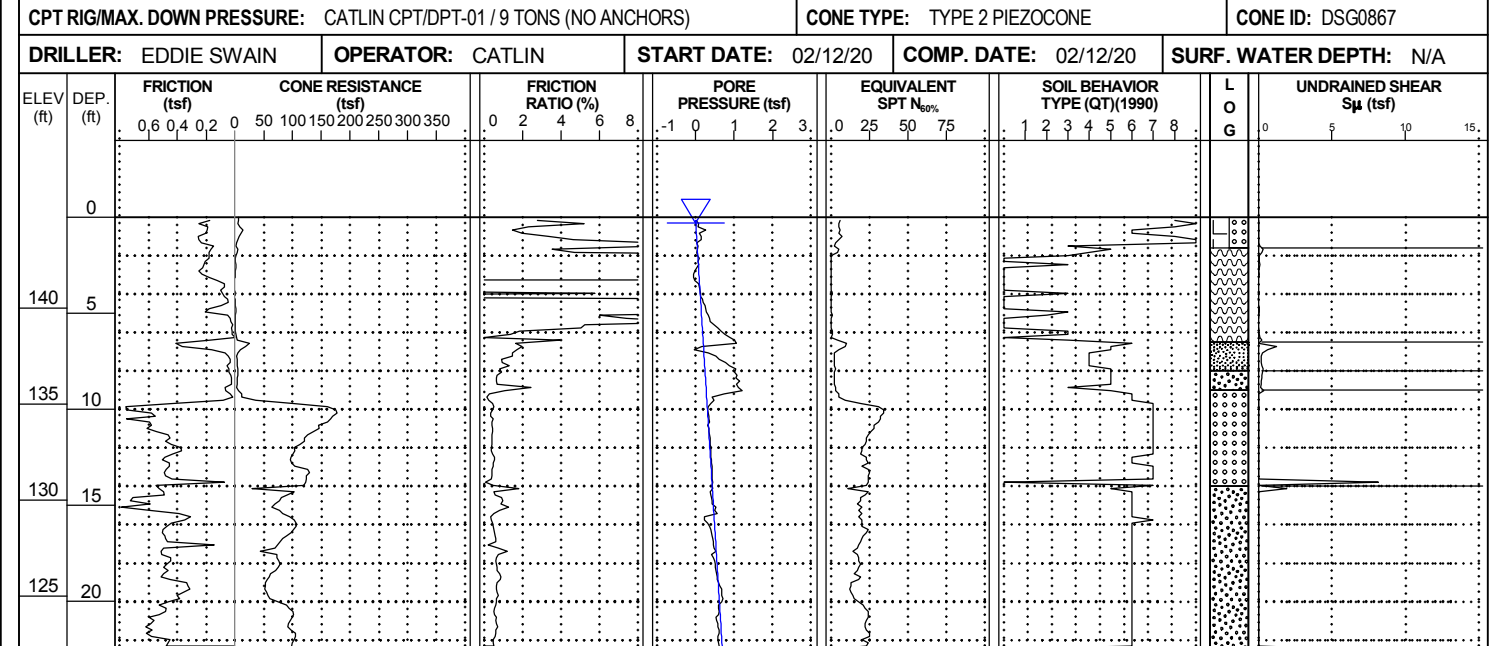
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 127.7 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_80700_RT	STATION: 807+00	OFFSET: 77 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 144.7 ft	TOTAL DEPTH: 22.6 ft	NORTHING: 403,870	EASTING: 2,010,424
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	

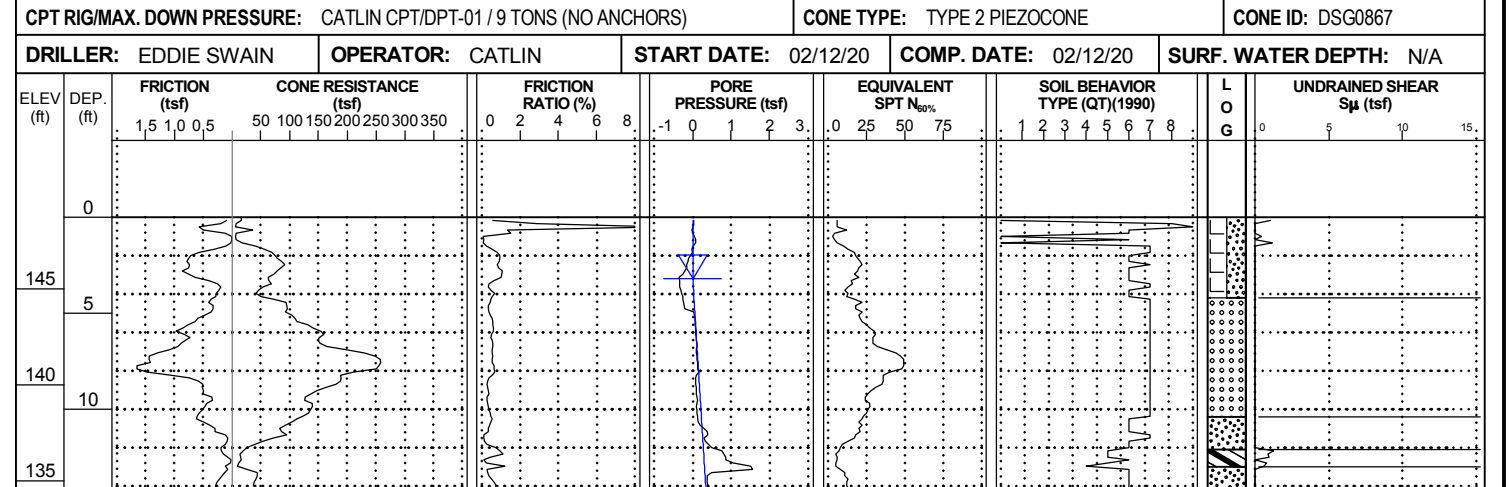


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 122.1 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_81200_RT	STATION: 812+00	OFFSET: 67 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 148.7 ft	TOTAL DEPTH: 14.5 ft	NORTHING: 404,366	EASTING: 2,010,487
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



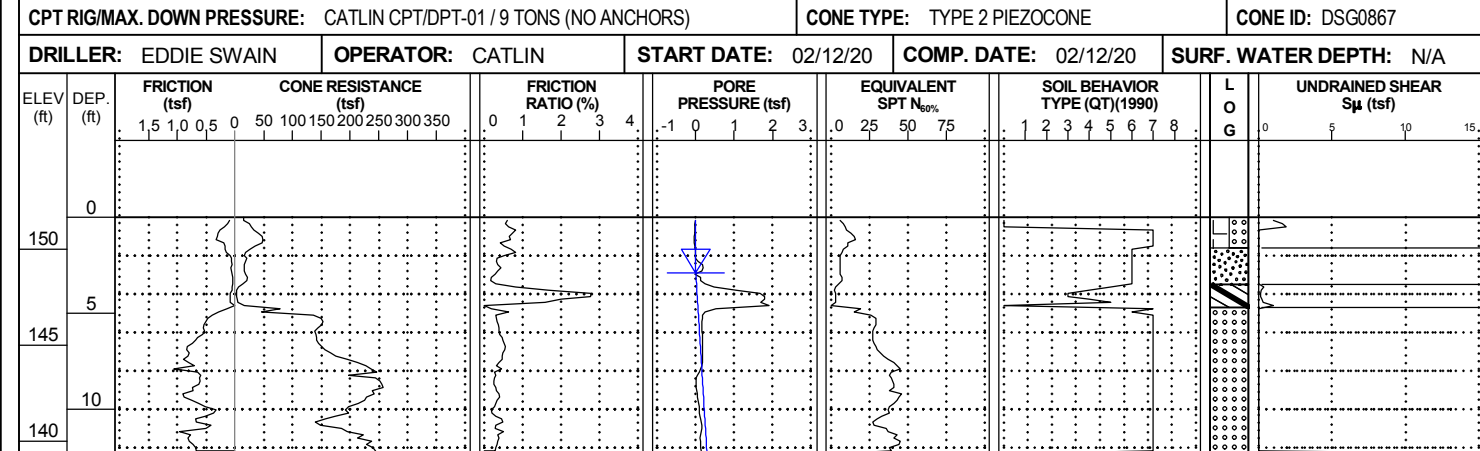
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 134.2 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

CONE PENETROMETER TEST BORING REPORT



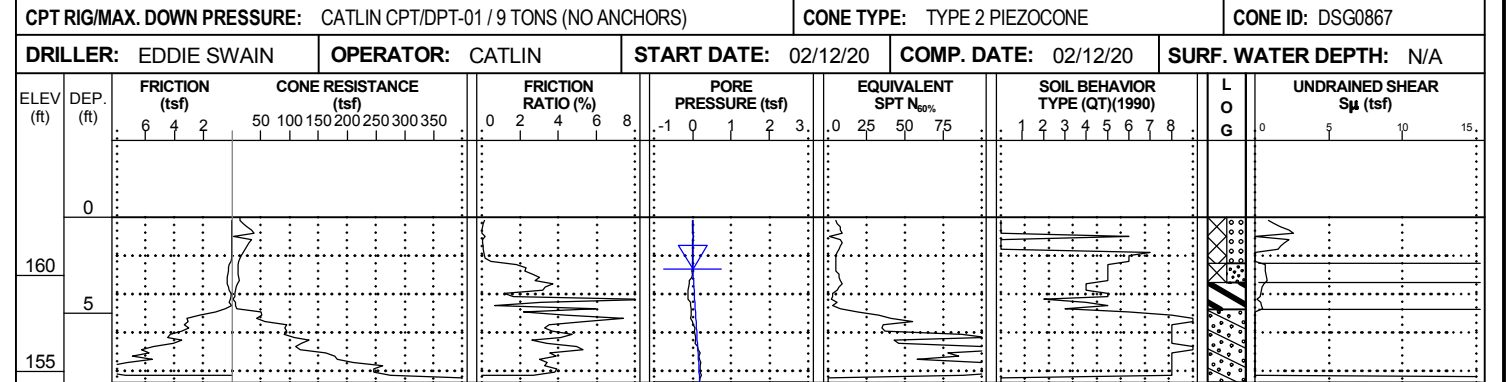
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_81700_RT	STATION: 817+00	OFFSET: 71 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 151.6 ft	TOTAL DEPTH: 12.4 ft	NORTHING: 404,860	EASTING: 2,010,563
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 139.2 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_82200_RT	STATION: 822+00	OFFSET: 94 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 163.0 ft	TOTAL DEPTH: 8.6 ft	NORTHING: 405,352	EASTING: 2,010,659
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated BY CONE PENETROMETER TEST REFUSAL at Elevation 154.4 ft

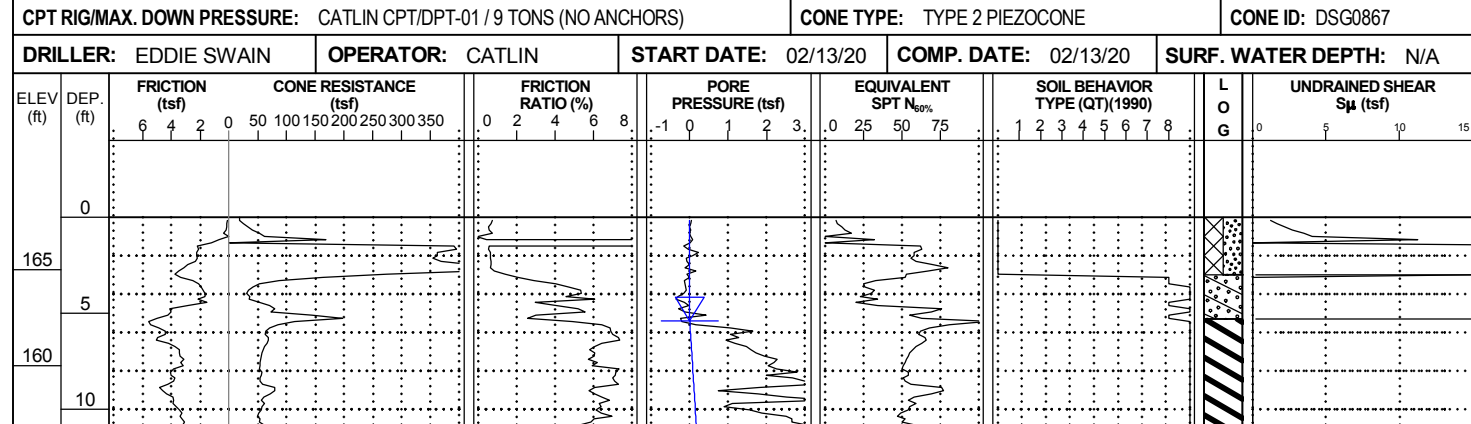
PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



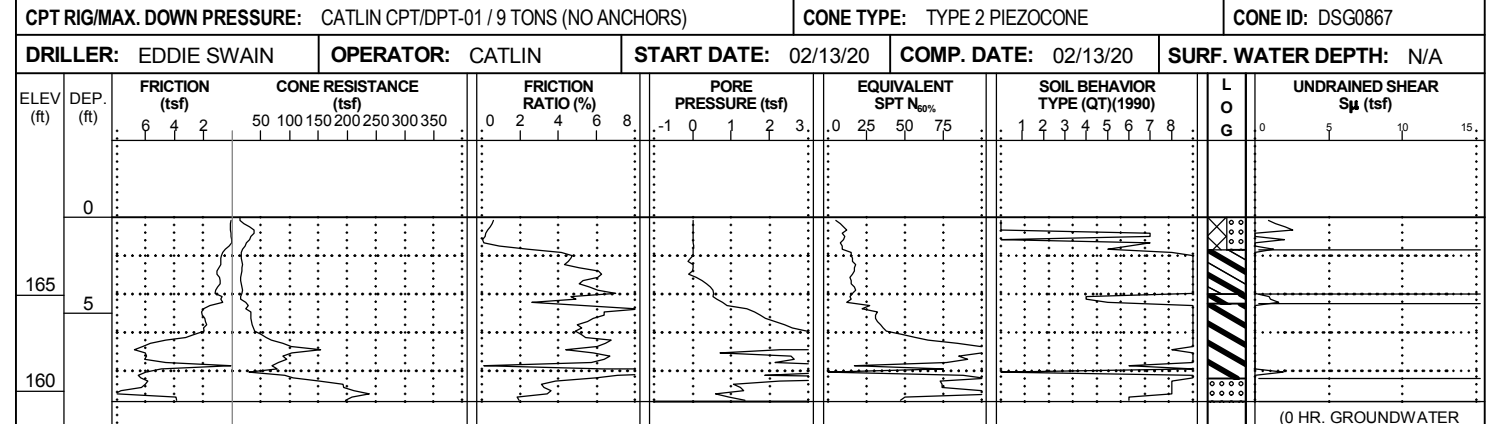
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_82700_RT	STATION: 827+00	OFFSET: 93 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 167.7 ft	TOTAL DEPTH: 11.2 ft	NORTHING: 405,846	EASTING: 2,010,730
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/13/20	COMP. DATE: 02/13/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 156.5 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_83200_RT	STATION: 832+00	OFFSET: 84 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 169.0 ft	TOTAL DEPTH: 9.6 ft	NORTHING: 406,342	EASTING: 2,010,794
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/13/20	COMP. DATE: 02/13/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 159.4 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

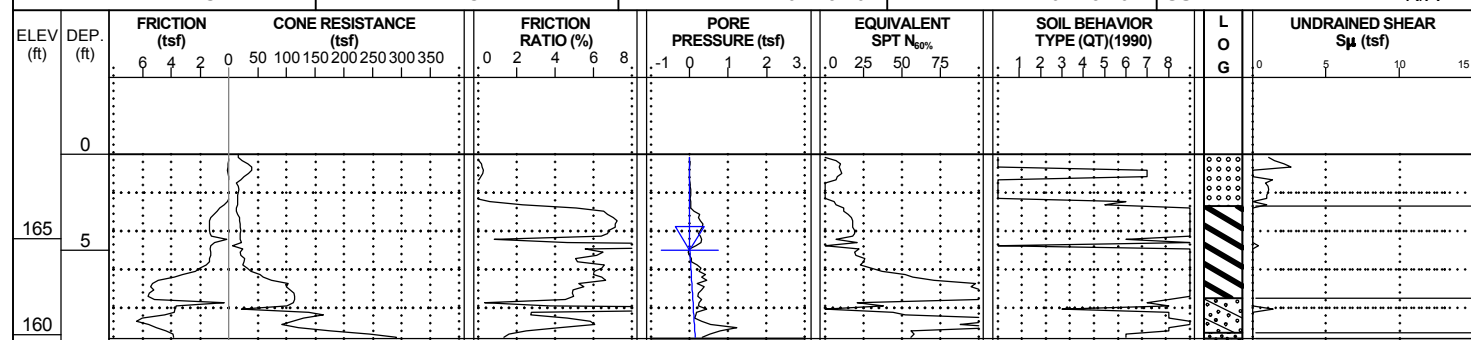
NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GIM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

CONE PENETROMETER TEST BORING REPORT



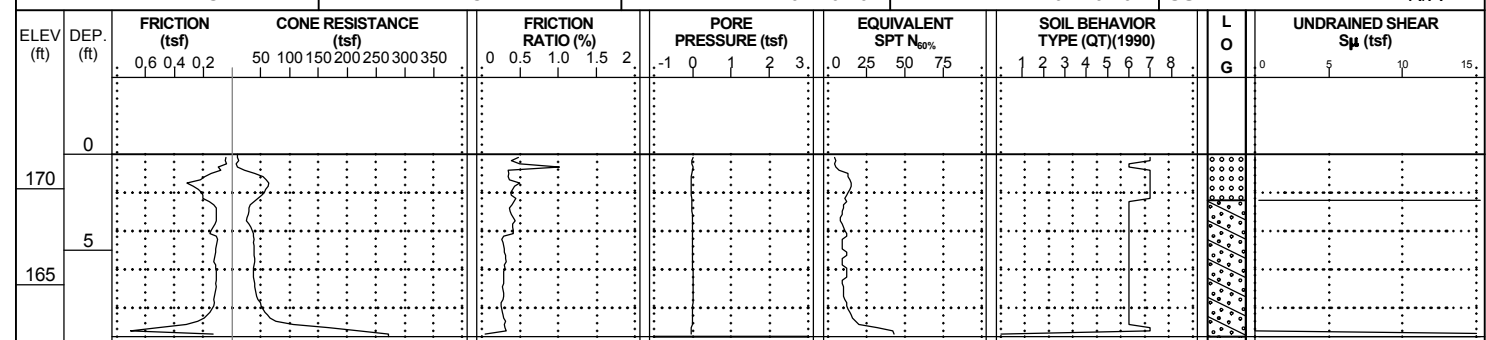
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_83700_RT	STATION: 837+00	OFFSET: 81 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 169.4 ft	TOTAL DEPTH: 9.6 ft	NORTHING: 406,838	EASTING: 2,010,864
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/13/20	COMP. DATE: 02/13/20
		SURF. WATER DEPTH: N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_84200_LT	STATION: 842+00	OFFSET: 93 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 171.8 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 407,358	EASTING: 2,010,764
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 159.8 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 162.3 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

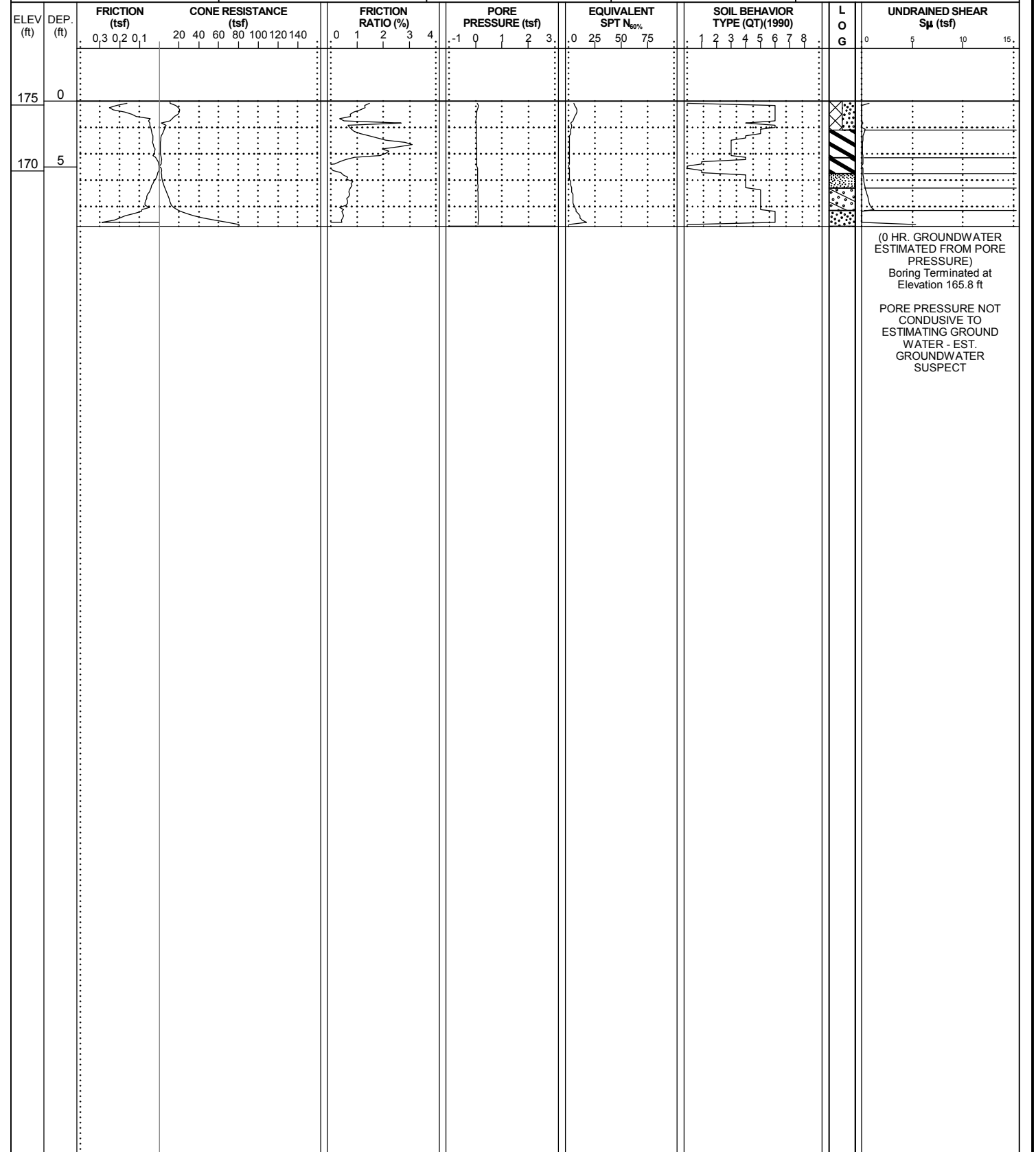
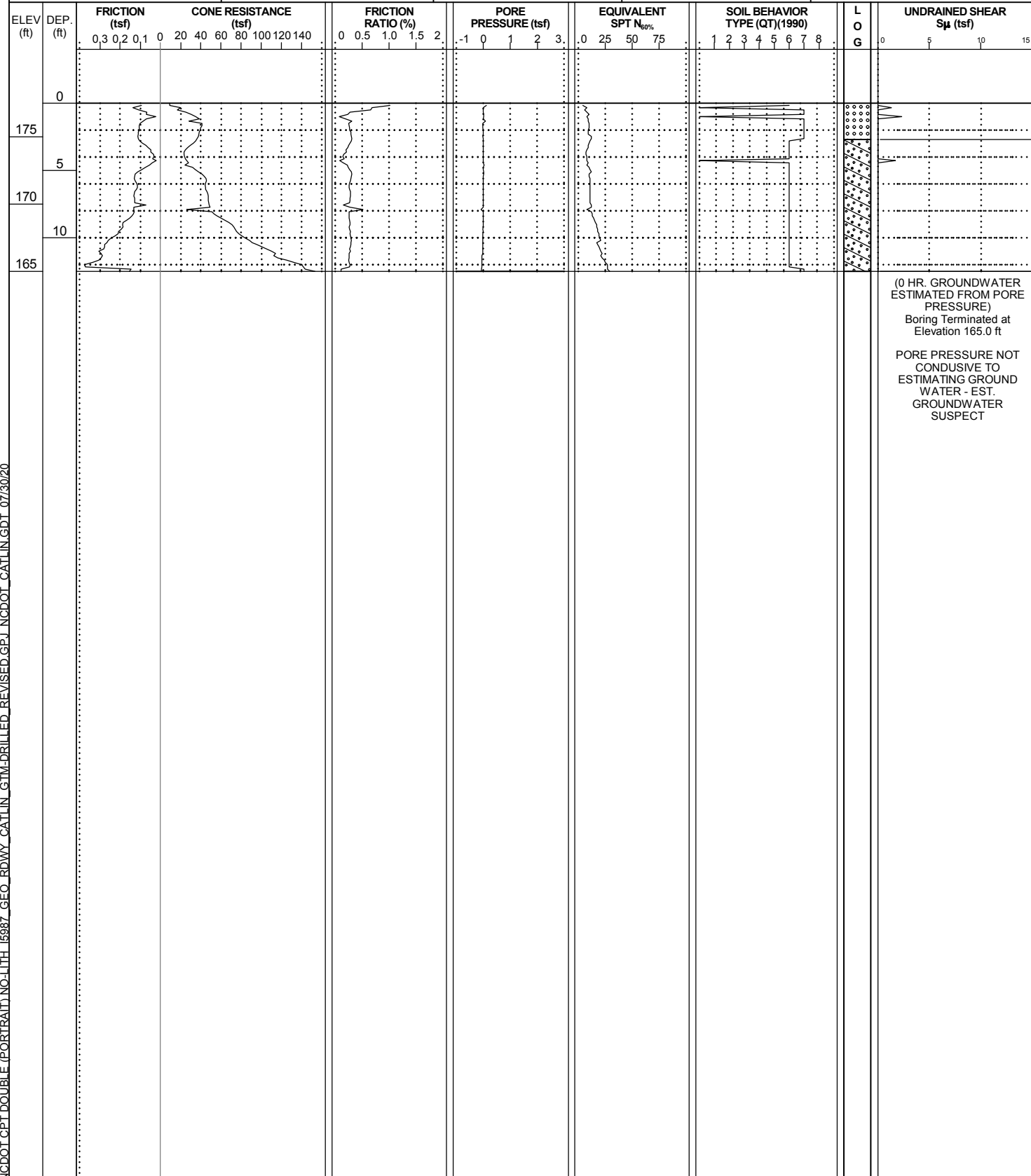
NCDOI CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_84700_LT	STATION: 847+00	OFFSET: 100 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 177.5 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 407,853	EASTING: 2,010,830
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_85200_LT	STATION: 852+00	OFFSET: 93 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 175.3 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 408,347	EASTING: 2,010,910
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
		SURF. WATER DEPTH: N/A	

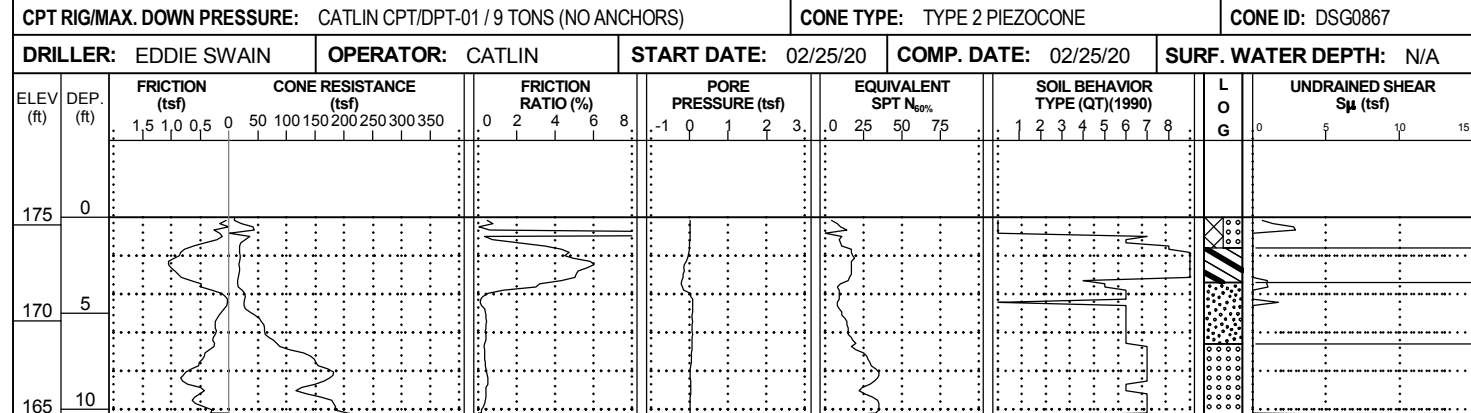


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



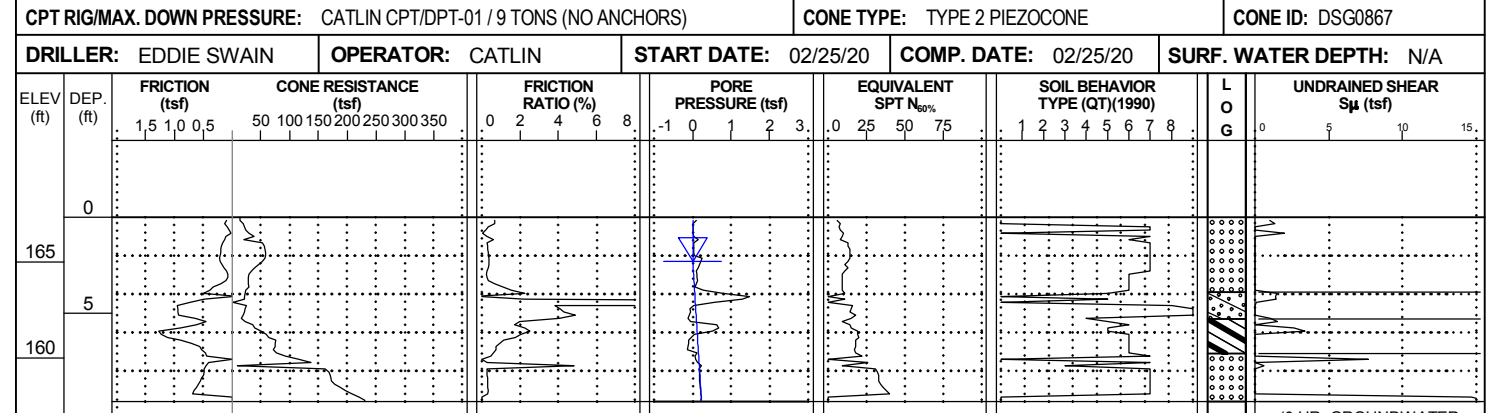
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_85700_LT	STATION: 857+00	OFFSET: 98 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 175.4 ft	TOTAL DEPTH: 10.4 ft	NORTHING: 408,842	EASTING: 2,010,977
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
SURF. WATER DEPTH: N/A			



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 165.0 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER - EST. GROUNDWATER SUSPECT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_86200_LT	STATION: 862+00	OFFSET: 70 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 167.3 ft	TOTAL DEPTH: 9.6 ft	NORTHING: 409,333	EASTING: 2,011,078
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
SURF. WATER DEPTH: N/A			



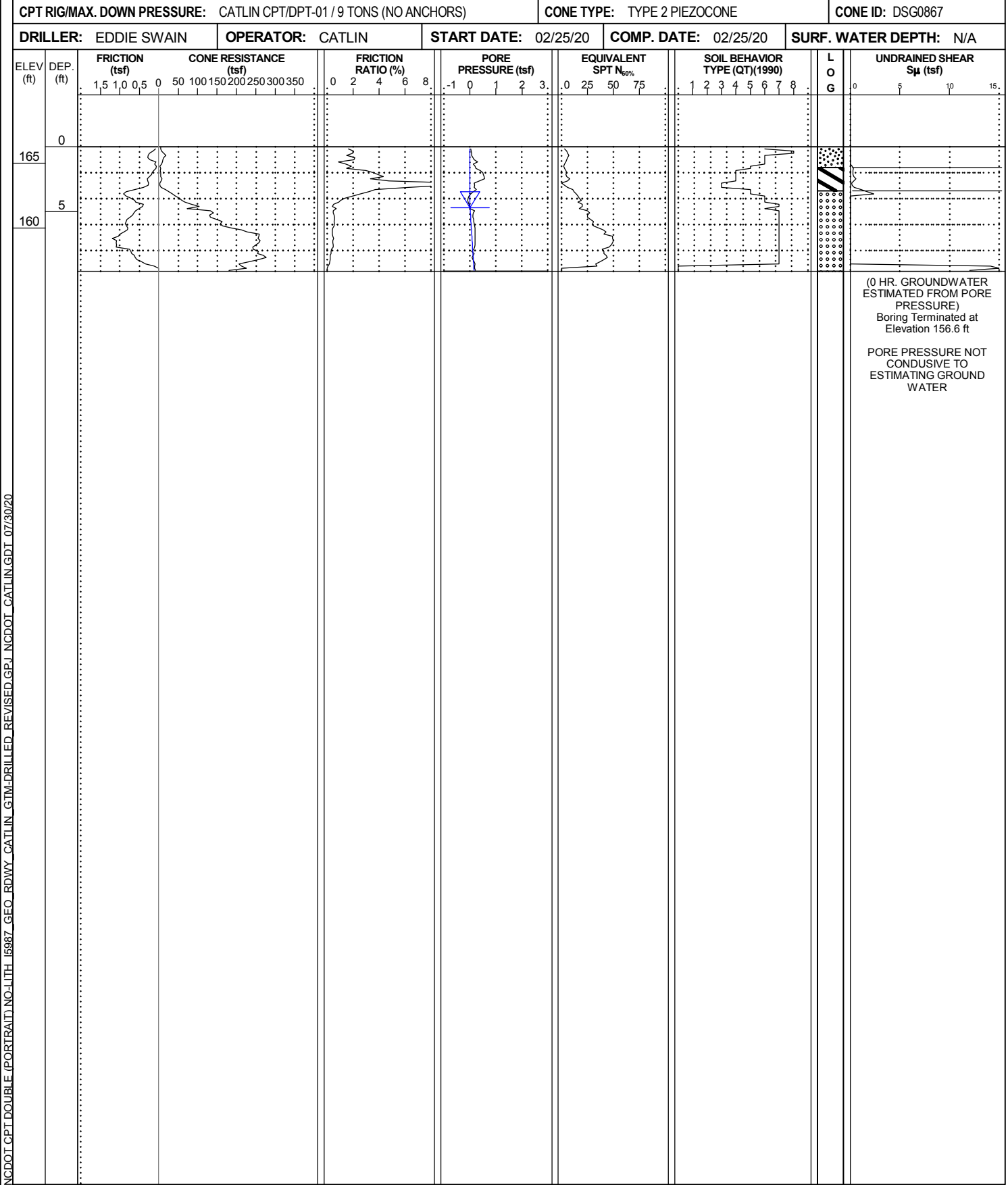
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 157.7 ft

NCDOI CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

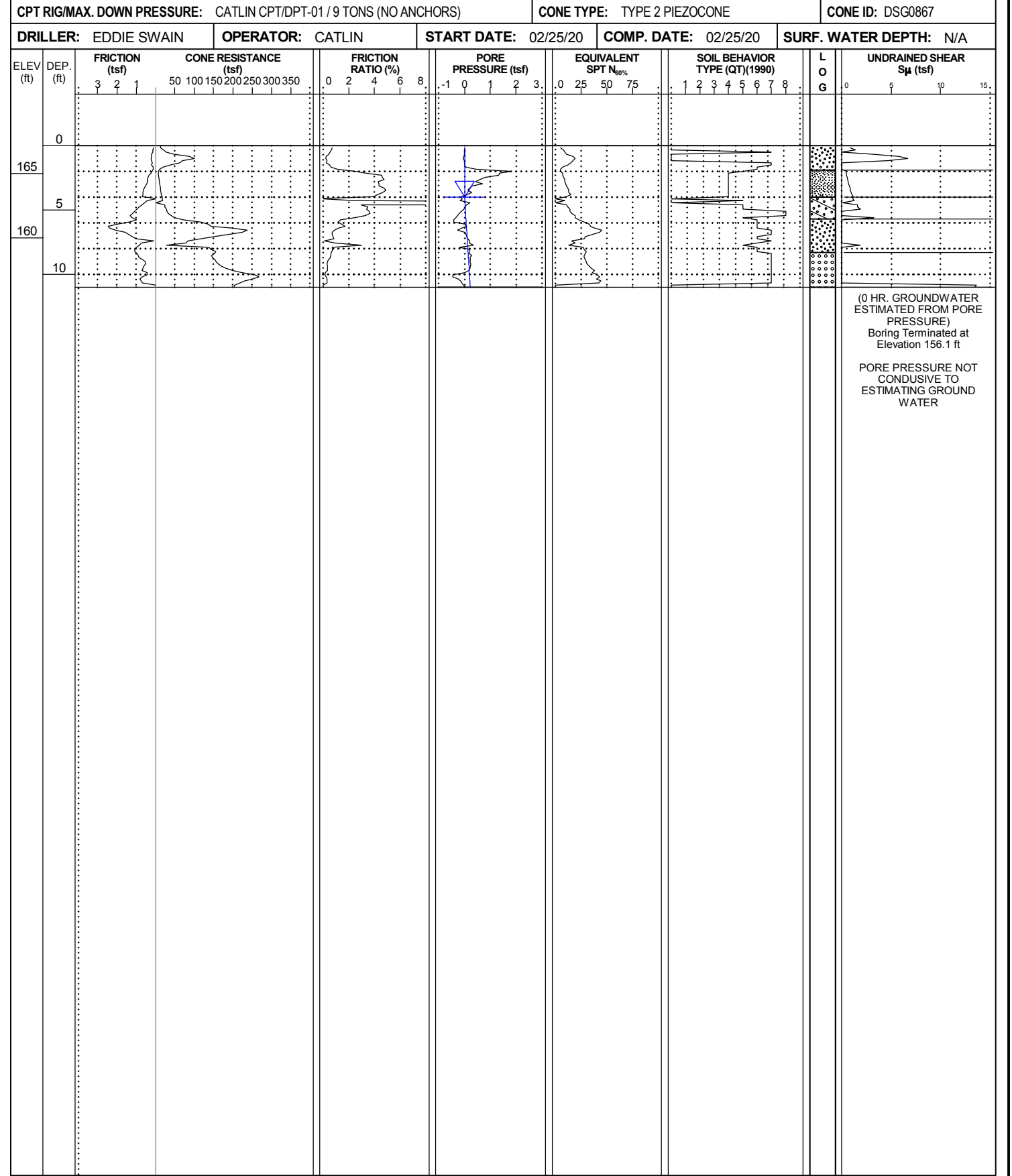
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_86700_LT	STATION: 867+00	OFFSET: 75 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 166.2 ft	TOTAL DEPTH: 9.6 ft	NORTHING: 409,828	EASTING: 2,011,146
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
		SURF. WATER DEPTH: N/A	



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_87200_LT	STATION: 872+00	OFFSET: 70 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 167.1 ft	TOTAL DEPTH: 11.0 ft	NORTHING: 410,322	EASTING: 2,011,223
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
		SURF. WATER DEPTH: N/A	

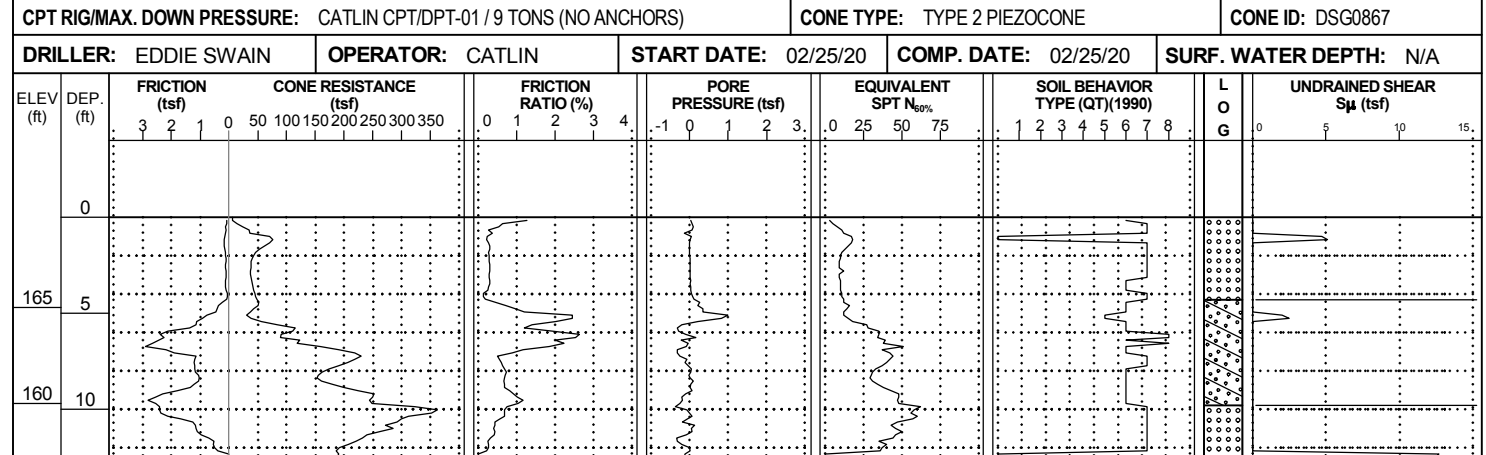


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

CONE PENETROMETER TEST BORING REPORT

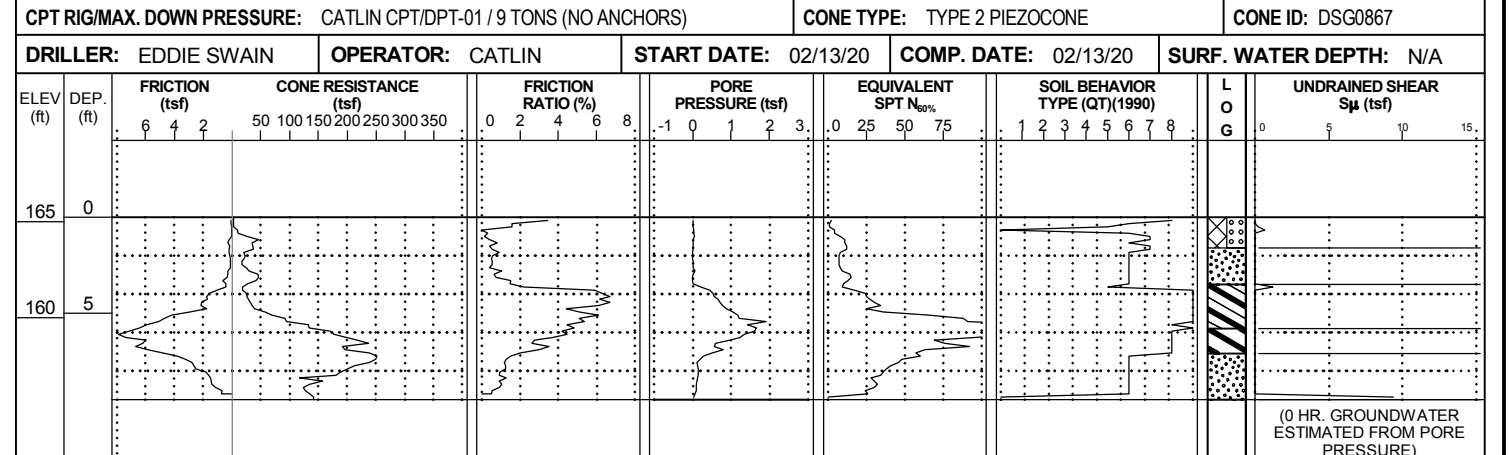


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_87700_LT	STATION: 877+00	OFFSET: 70 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 169.7 ft	TOTAL DEPTH: 12.5 ft	NORTHING: 410,817	EASTING: 2,011,296
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated WITH CONE PENETRATION TEST REFUSAL at Elevation 157.2 ft

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_89700_RT	STATION: 897+00	OFFSET: 102 ft RT	ALIGNMENT: -L-
COLLAR ELEV.: 165.2 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 412,771	EASTING: 2,011,757
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/13/20	COMP. DATE: 02/13/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 155.7 ft

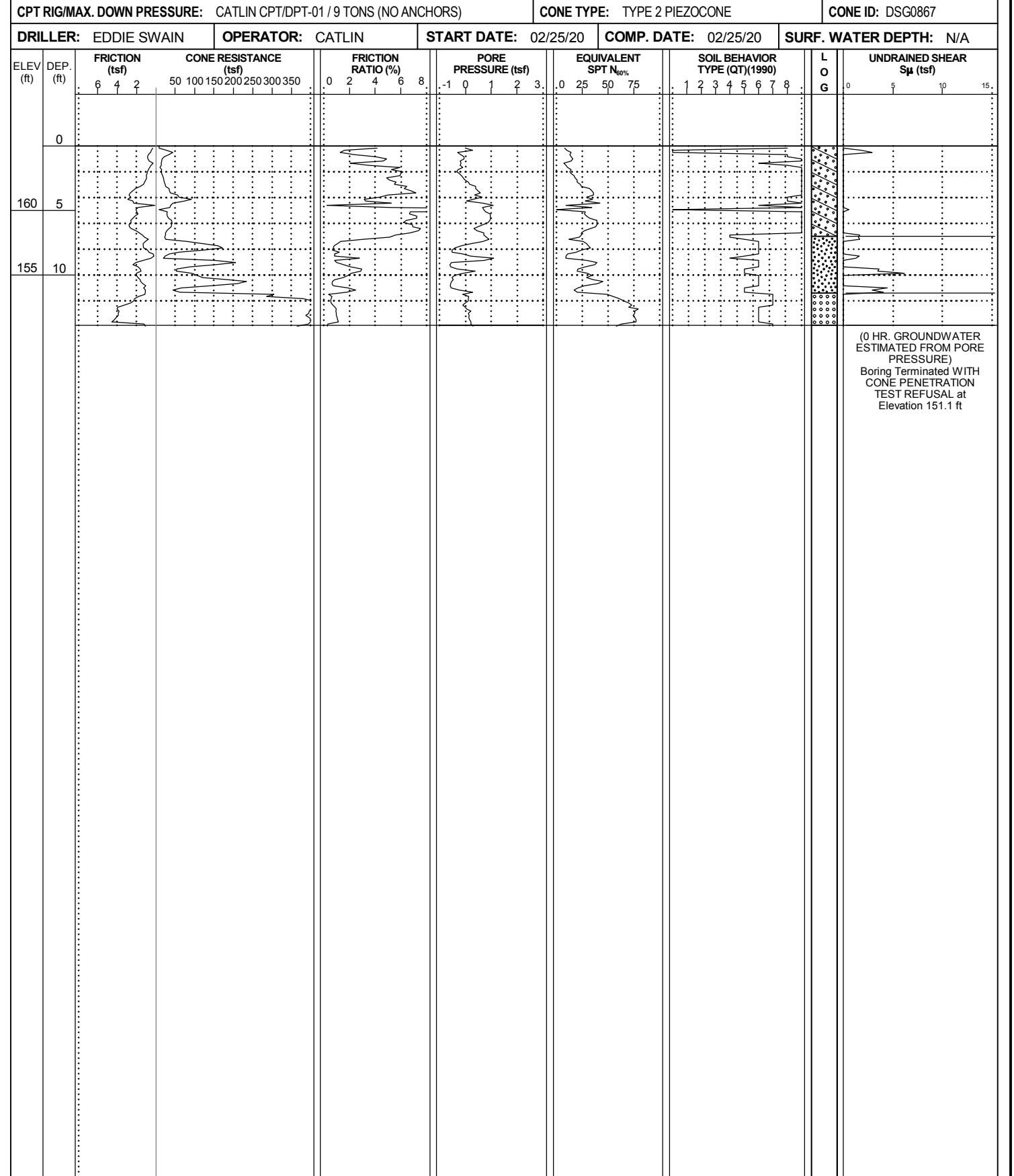
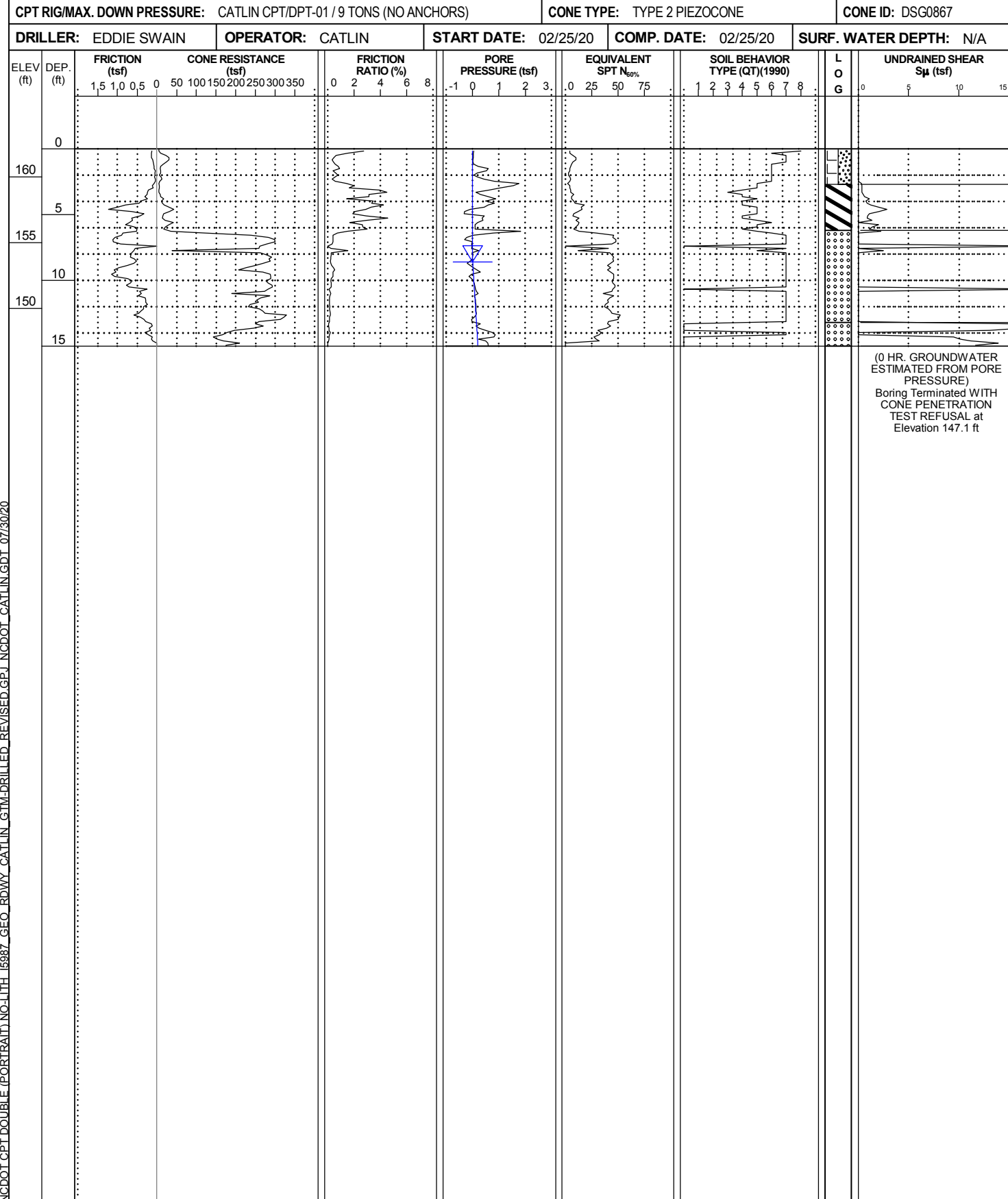
NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_90700_LT	STATION: 907+00	OFFSET: 75 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 162.1 ft	TOTAL DEPTH: 15.0 ft	NORTHING: 413,786	EASTING: 2,011,727
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
EST. 0 HR. 8.6		24 HR. N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: L_91200_LT	STATION: 912+00	OFFSET: 75 ft LT	ALIGNMENT: -L-
COLLAR ELEV.: 165.0 ft	TOTAL DEPTH: 13.9 ft	NORTHING: 414,281	EASTING: 2,011,800
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/25/20	COMP. DATE: 02/25/20
EST. 0 HR. Dry		24 HR. N/A	

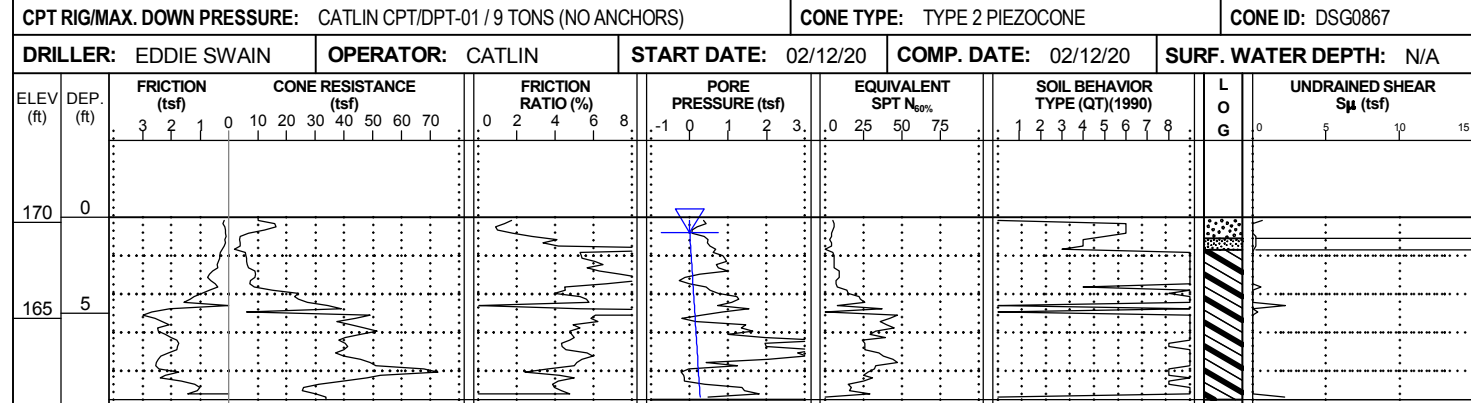


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



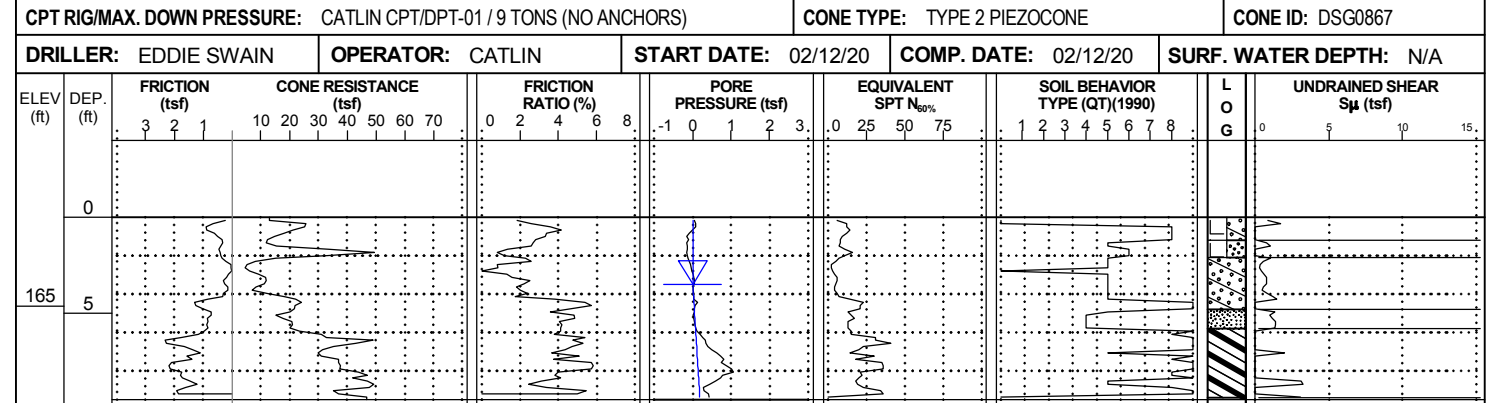
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: SR3_2700	STATION: 27+00	OFFSET: CL	ALIGNMENT: -SR3-
COLLAR ELEV.: 170.3 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 395,122	EASTING: 2,007,145
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 160.8 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: SR3_3000	STATION: 30+00	OFFSET: 5 ft LT	ALIGNMENT: -SR3-
COLLAR ELEV.: 169.6 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 395,378	EASTING: 2,007,301
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



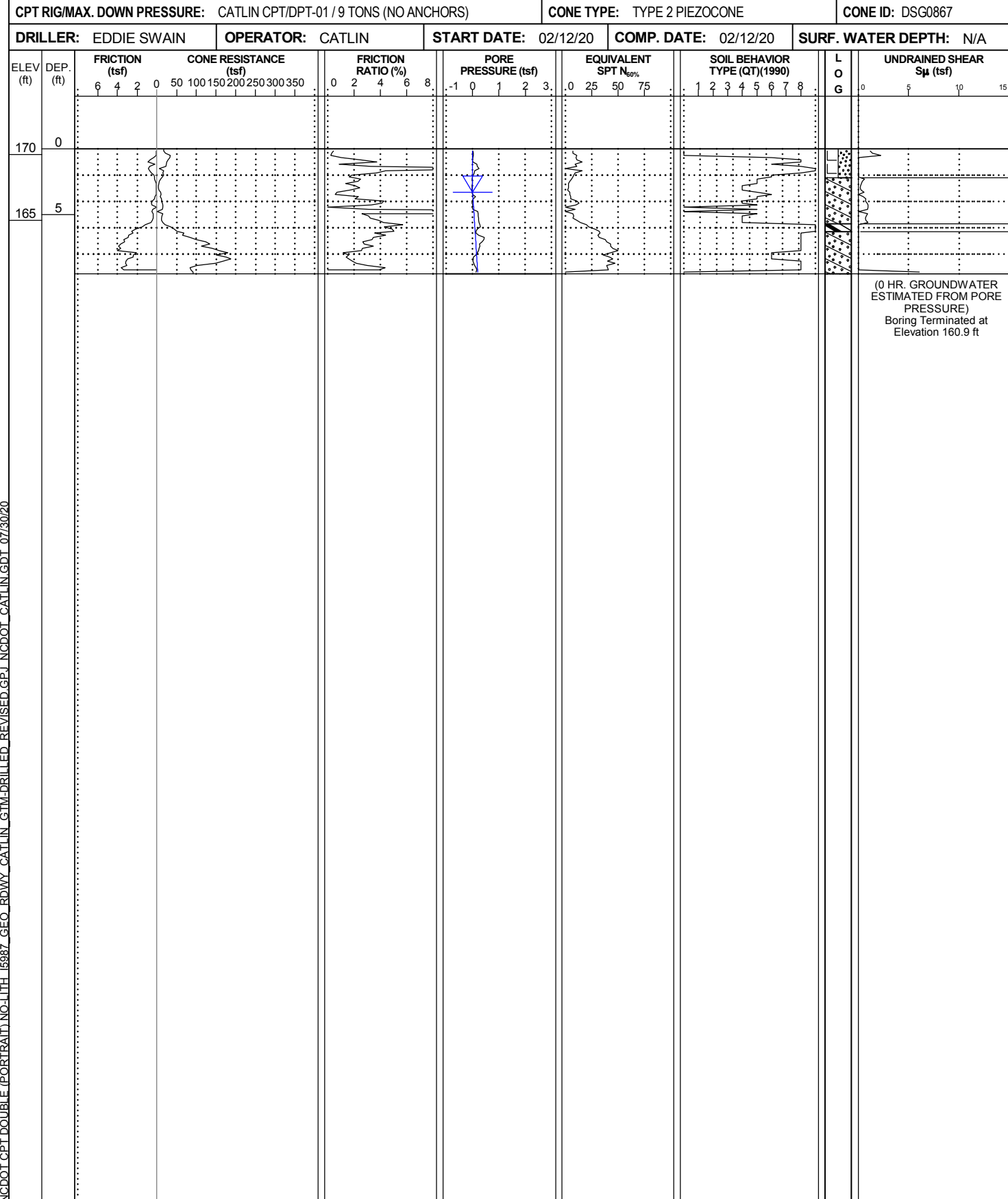
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 160.1 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

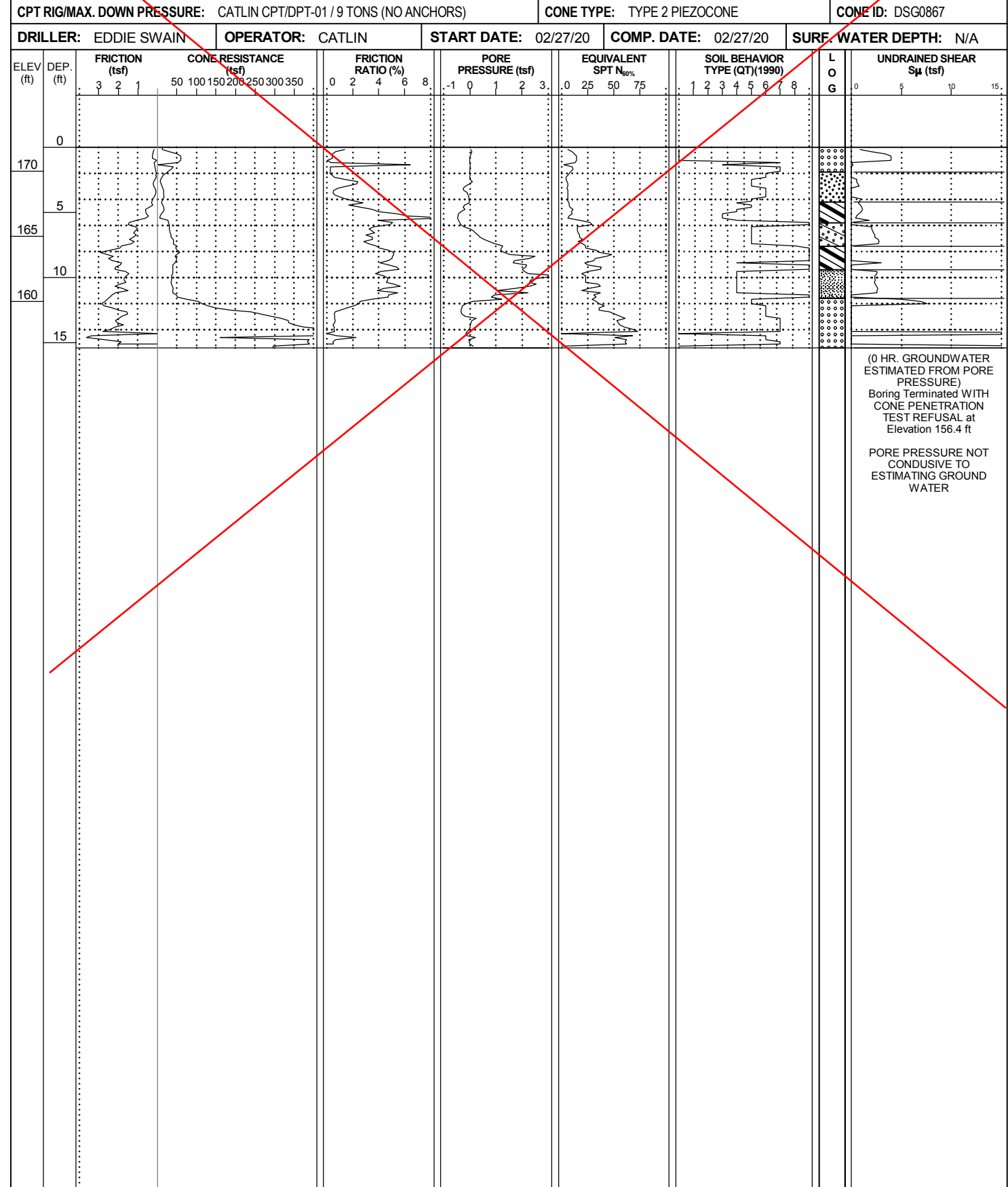
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: SR3_3300	STATION: 33+00	OFFSET: CL	ALIGNMENT: -SR3-
COLLAR ELEV.: 170.4 ft	TOTAL DEPTH: 9.5 ft	NORTHING: 395,629	EASTING: 2,007,466
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/12/20	COMP. DATE: 02/12/20
		SURF. WATER DEPTH: N/A	



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y1_2500	STATION: 25+00	OFFSET: 5 ft RT	ALIGNMENT: -Y1-
COLLAR ELEV.: 171.8 ft	TOTAL DEPTH: 15.4 ft	NORTHING: 411,627	EASTING: 2,010,881
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/27/20	COMP. DATE: 02/27/20
		SURF. WATER DEPTH: N/A	

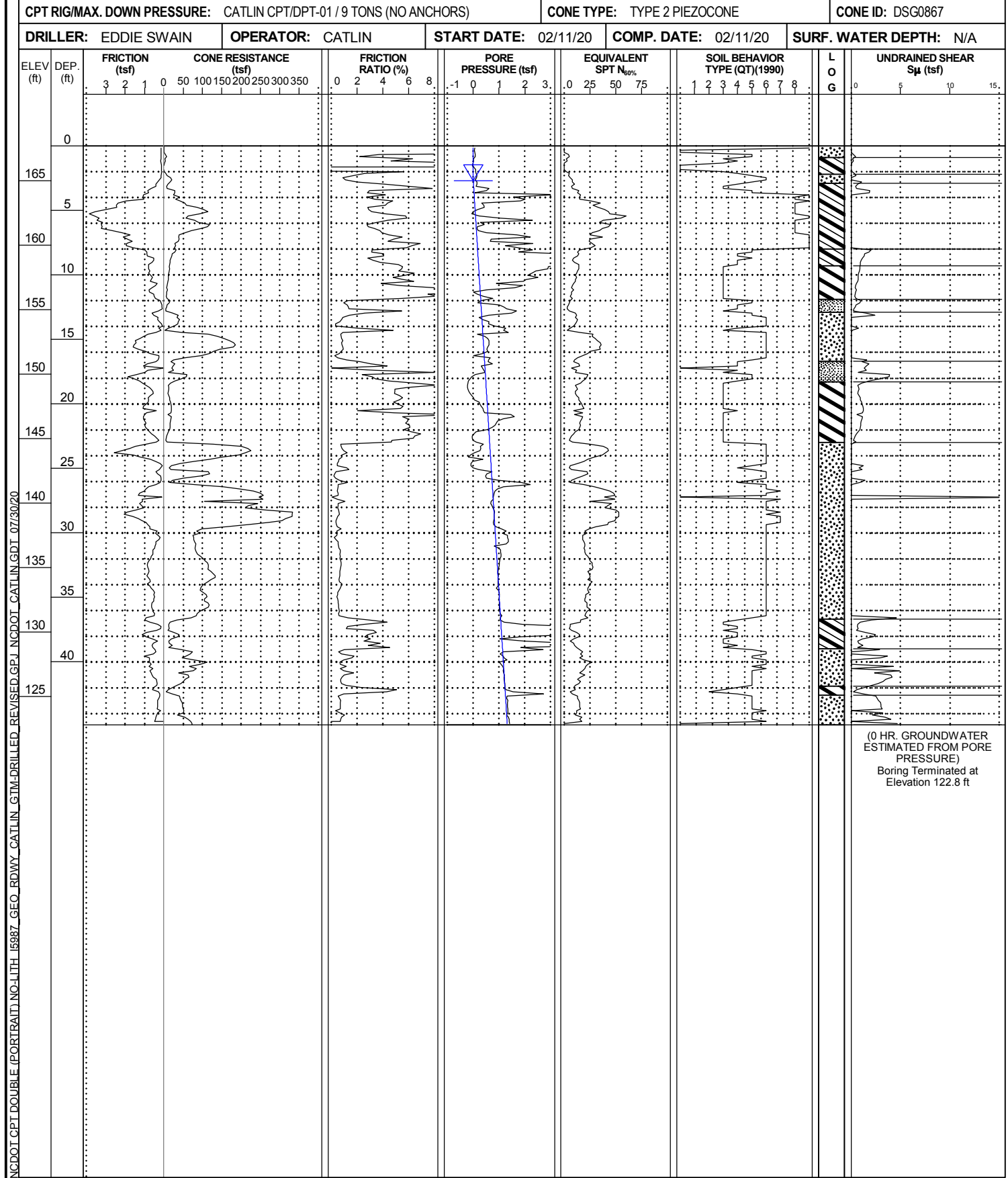


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

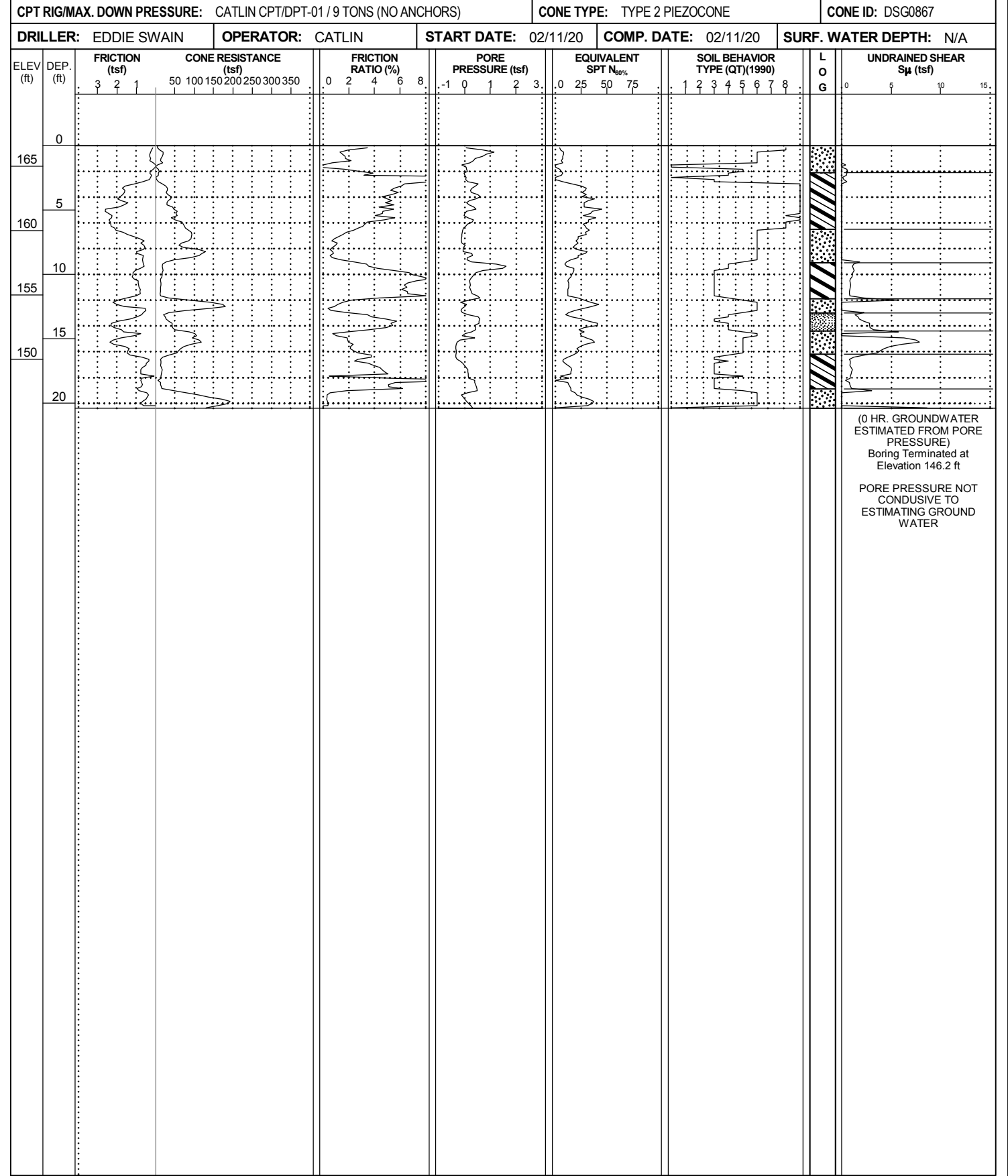
CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y1B_3000	STATION: 30+00	OFFSET: 50 ft RT	ALIGNMENT: -Y1B-
COLLAR ELEV.: 167.7 ft	TOTAL DEPTH: 44.9 ft	NORTHING: 393,824	EASTING: 2,006,462
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/11/20	COMP. DATE: 02/11/20
		SURF. WATER DEPTH: N/A	



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y1B_3300	STATION: 33+00	OFFSET: 50 ft RT	ALIGNMENT: -Y1B-
COLLAR ELEV.: 166.6 ft	TOTAL DEPTH: 20.4 ft	NORTHING: 393,534	EASTING: 2,006,536
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/11/20	COMP. DATE: 02/11/20
		SURF. WATER DEPTH: N/A	



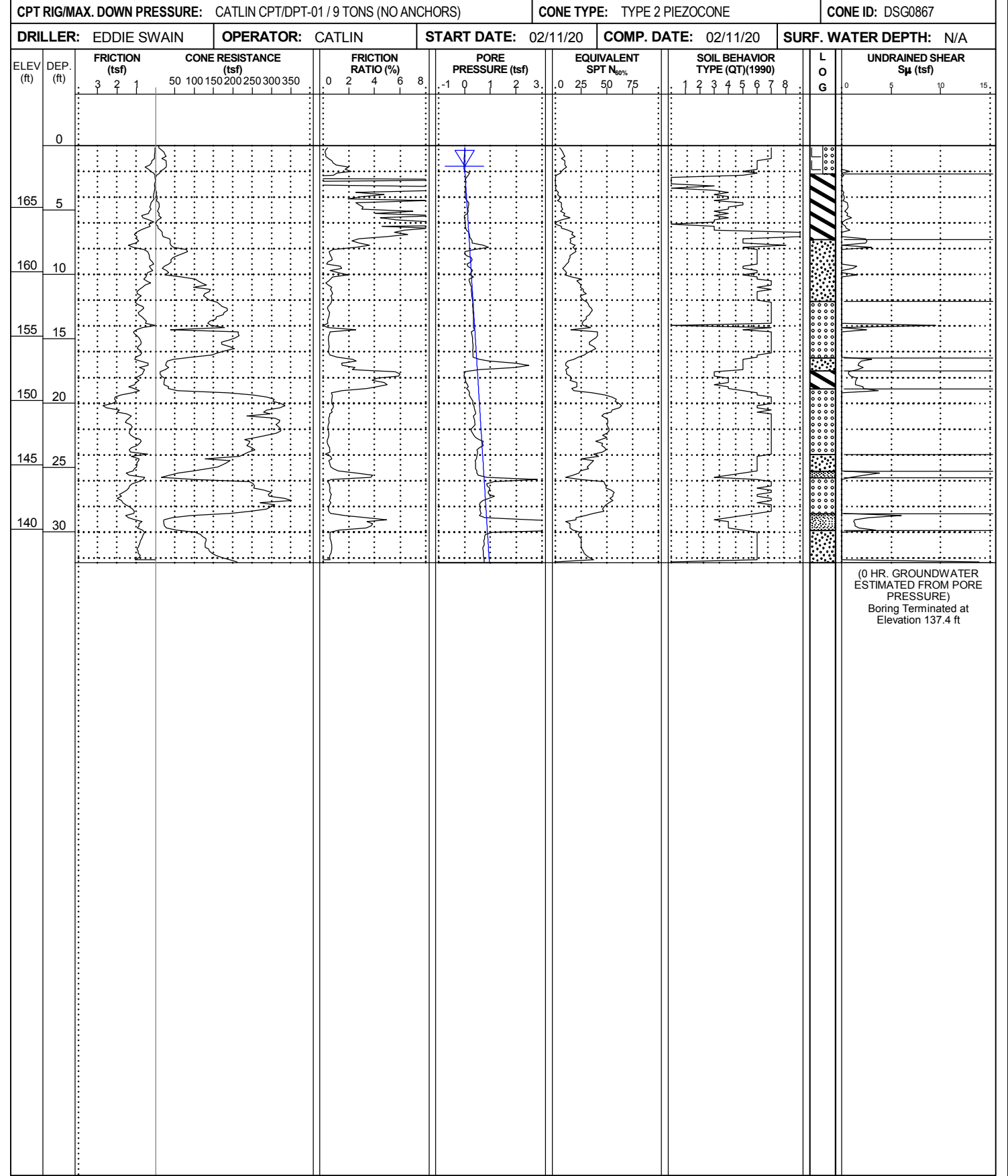
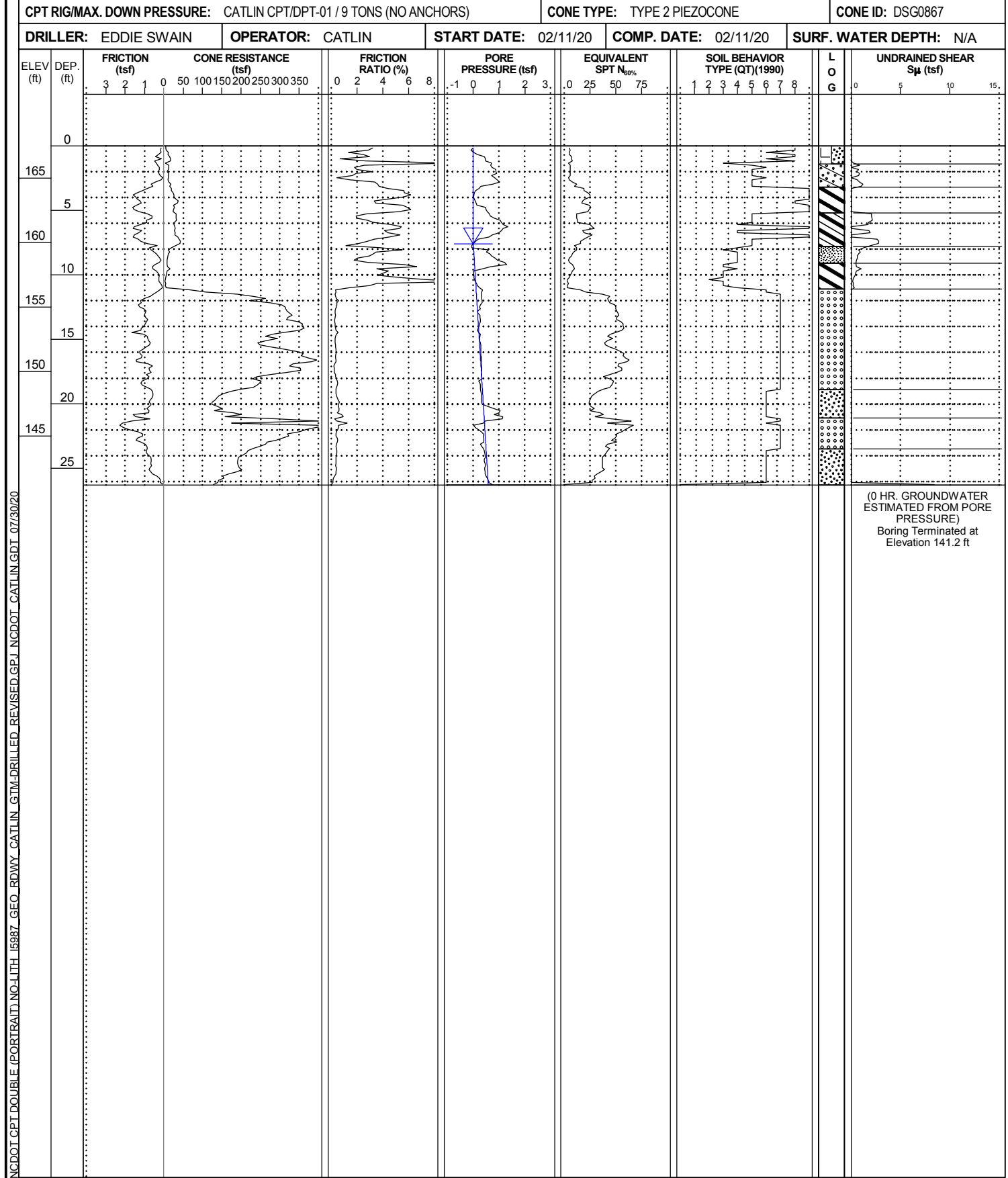
NCDOT CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y1BRPC_1750	STATION: 17+50	OFFSET: 15 ft RT	ALIGNMENT: -Y1BRPC-
COLLAR ELEV.: 167.5 ft	TOTAL DEPTH: 26.3 ft	NORTHING: 393,597	EASTING: 2,006,033
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/11/20	COMP. DATE: 02/11/20
EST. 0 HR. 7.6		24 HR. N/A	

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y1BRPC_2000	STATION: 20+00	OFFSET: 30 ft RT	ALIGNMENT: -Y1BRPC-
COLLAR ELEV.: 169.8 ft	TOTAL DEPTH: 32.4 ft	NORTHING: 393,747	EASTING: 2,006,228
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/11/20	COMP. DATE: 02/11/20
EST. 0 HR. 1.6		24 HR. N/A	

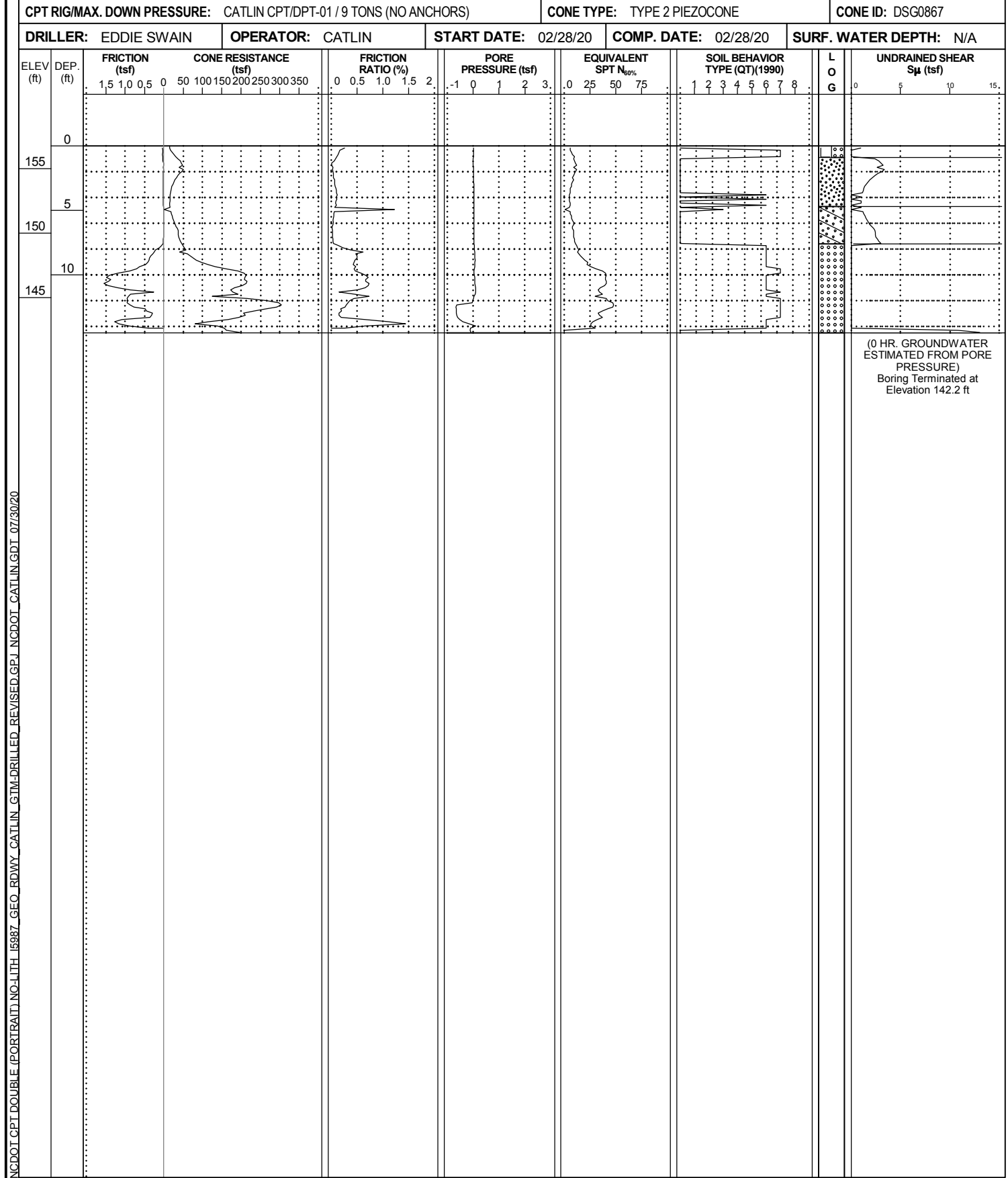


NCDOI CPT DOUBLE (PORTRAIT) NO-LITH 15987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

CONE PENETROMETER TEST BORING REPORT

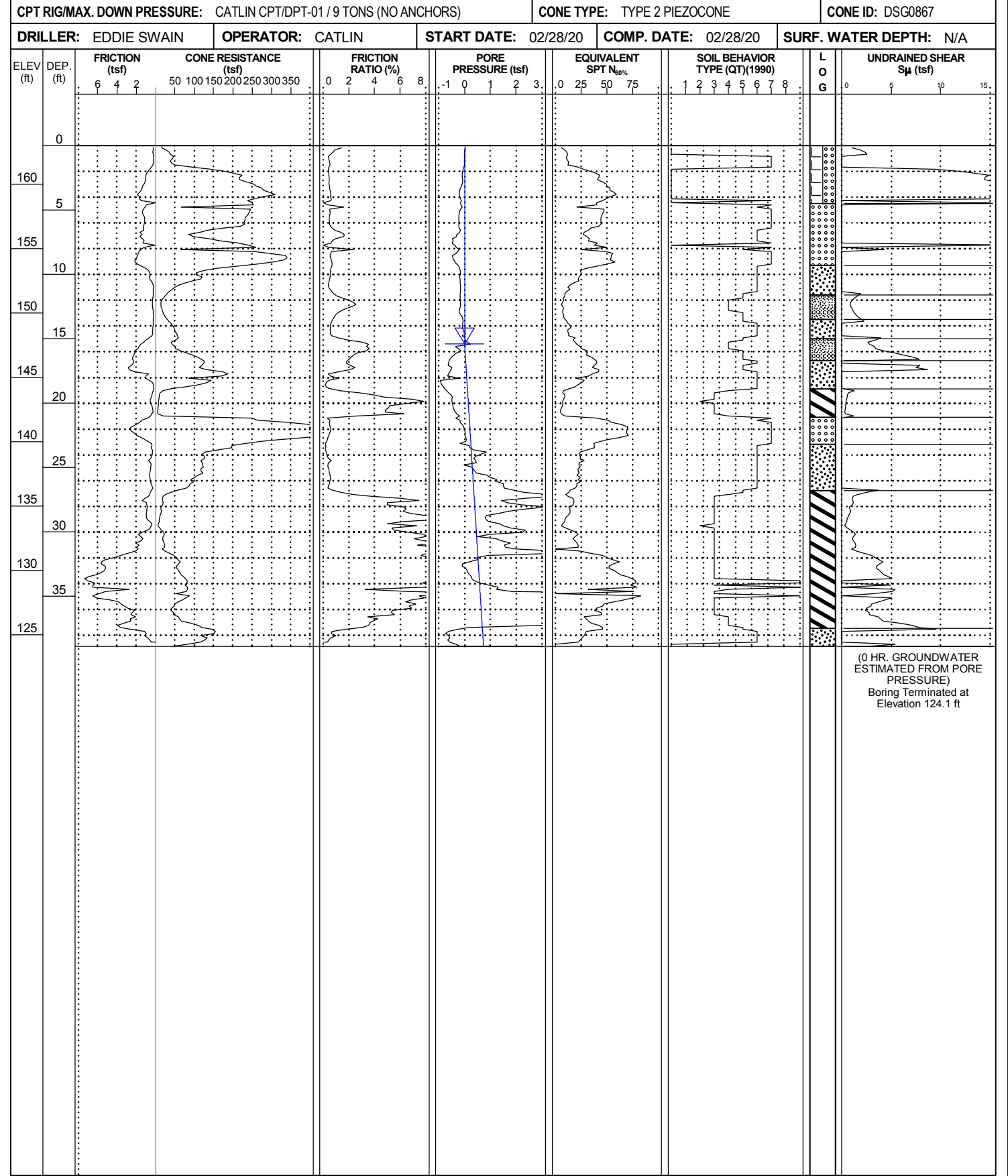


WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y4_1800	STATION: 18+00	OFFSET: 10 ft LT	ALIGNMENT: -Y4-
COLLAR ELEV.: 156.7 ft	TOTAL DEPTH: 14.5 ft	NORTHING: 382,245	EASTING: 2,001,890
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/28/20	COMP. DATE: 02/28/20
		SURF. WATER DEPTH: N/A	



NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

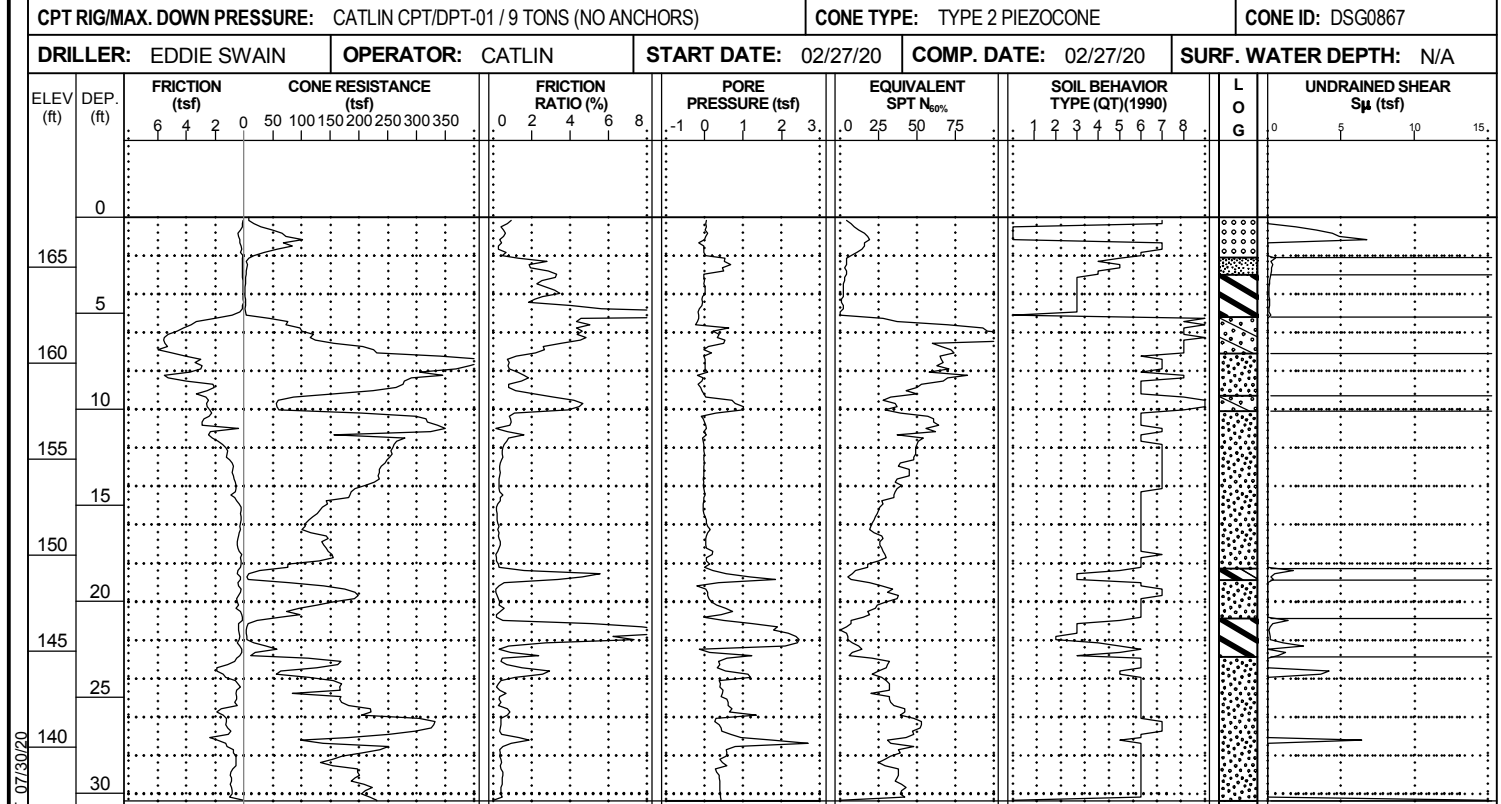
WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y4_2150	STATION: 21+50	OFFSET: 5 ft RT	ALIGNMENT: -Y4-
COLLAR ELEV.: 163.0 ft	TOTAL DEPTH: 38.9 ft	NORTHING: 382,200	EASTING: 2,002,238
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/28/20	COMP. DATE: 02/28/20
		SURF. WATER DEPTH: N/A	



CONE PENETROMETER TEST BORING REPORT



WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y7_2600	STATION: 26+00	OFFSET: CL	ALIGNMENT: -Y7-
COLLAR ELEV.: 167.6 ft	TOTAL DEPTH: 30.4 ft	NORTHING: 399,757	EASTING: 2,008,839
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/27/20	COMP. DATE: 02/27/20
		SURF. WATER DEPTH: N/A	

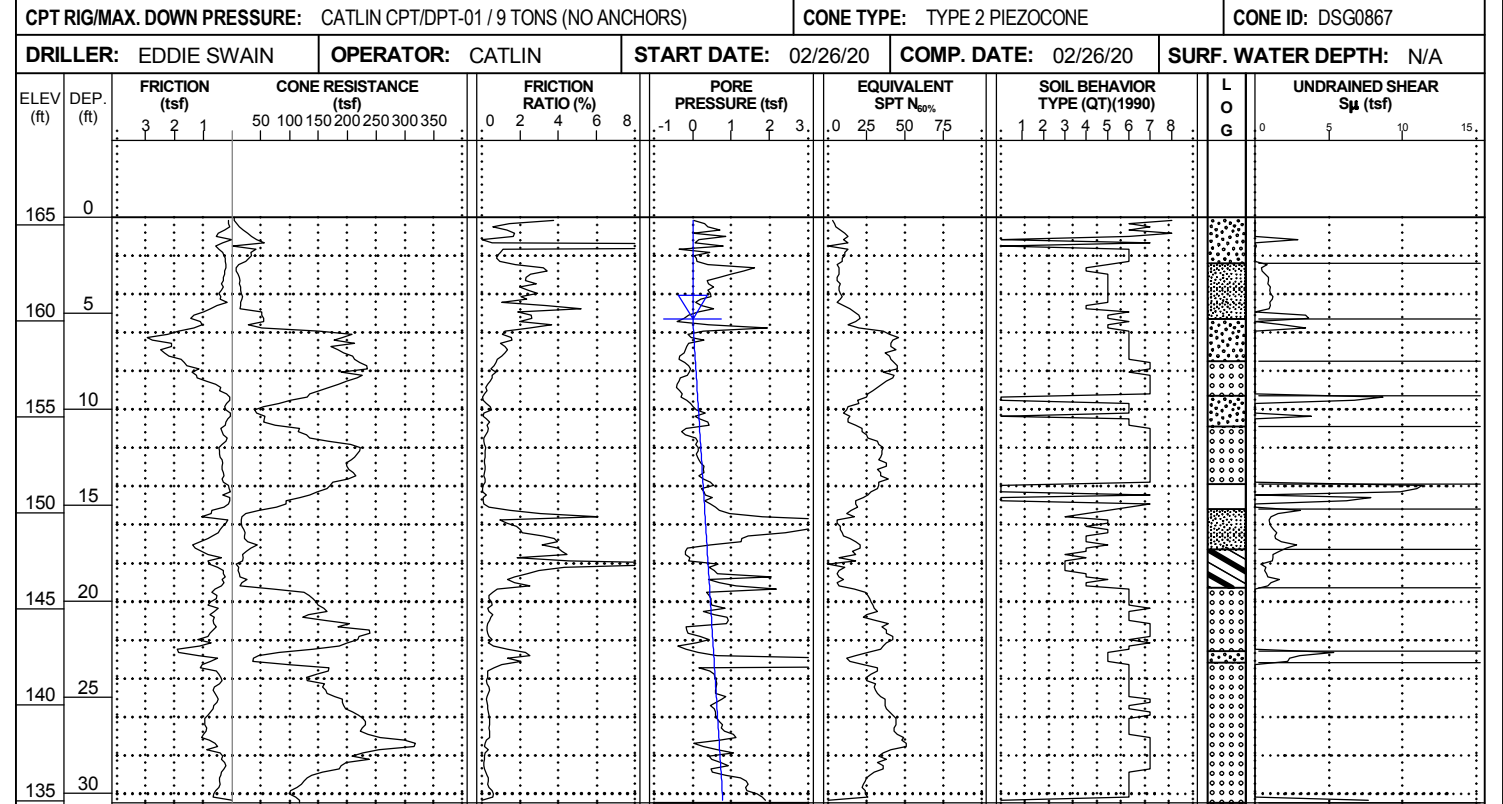


NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I5987_GEO_RDWY_CATLIN_GTM-DRILLED_REVISED.GPJ_NCDOT_CATLIN.GDT_07/30/20

(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 137.2 ft

PORE PRESSURE NOT CONDUSIVE TO ESTIMATING GROUND WATER

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)			GROUND WTR (ft)
BORING NO.: Y7_3400	STATION: 34+00	OFFSET: CL	ALIGNMENT: -Y7-
COLLAR ELEV.: 165.4 ft	TOTAL DEPTH: 30.5 ft	NORTHING: 399,145	EASTING: 2,009,355
CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)		CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20
		SURF. WATER DEPTH: N/A	



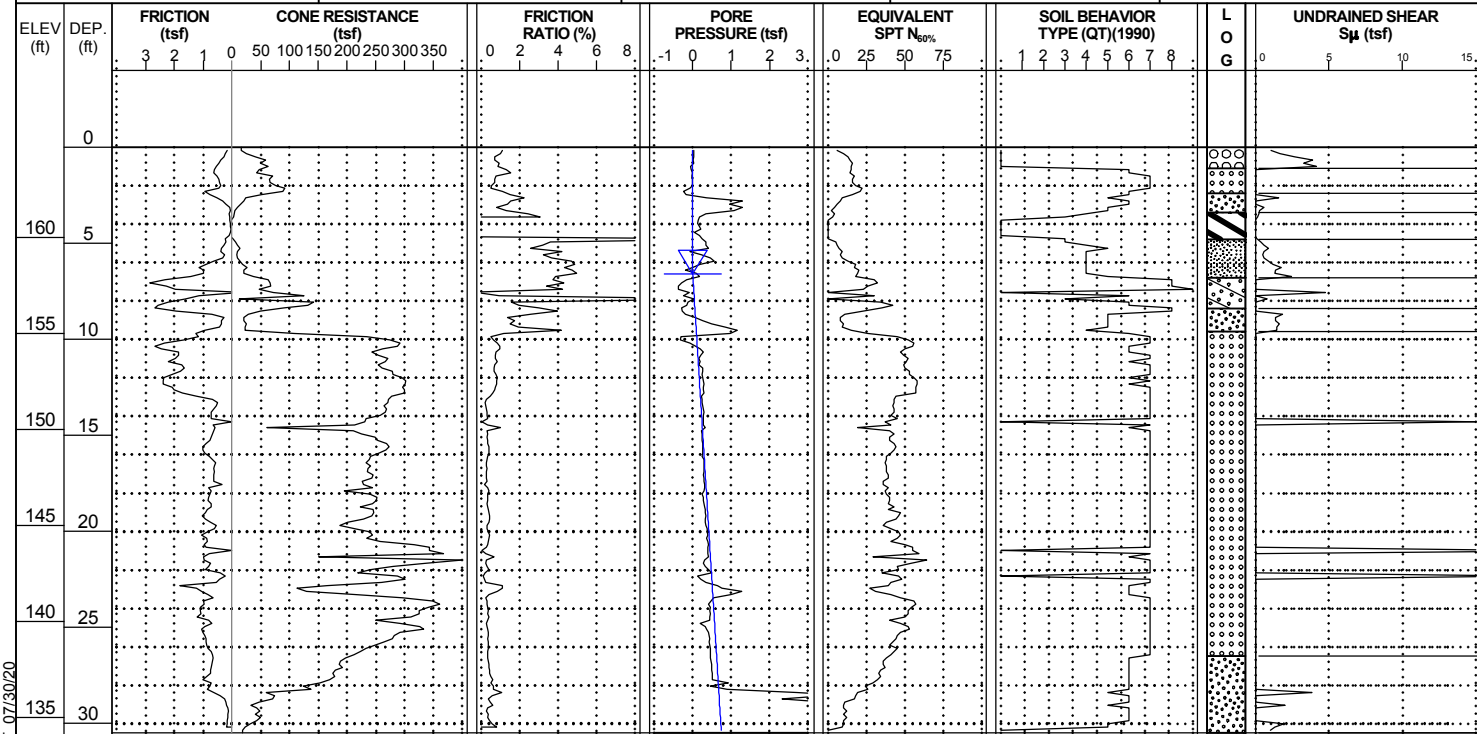
(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 134.9 ft

CONE PENETROMETER TEST BORING REPORT

WBS: 47533.1.1	TIP: I-5987	COUNTY: ROBESON/CUMBERLAND	GEOLOGIST: S. HUDSON	
SITE DESCRIPTION: I-95 CUMBERLAND/ROBESON COUNTIES FROM US 301 (EXIT 22) TO I-95 BUSINESS/US 301 (EXIT 40)				GROUND WTR (ft)
BORING NO.: Y7_3700	STATION: 37+00	OFFSET: CL	ALIGNMENT: -Y7-	EST. 0 HR. 6.6
COLLAR ELEV.: 164.7 ft	TOTAL DEPTH: 30.5 ft	NORTHING: 398,908	EASTING: 2,009,539	24 HR. N/A

CPT RIG/MAX. DOWN PRESSURE: CATLIN CPT/DPT-01 / 9 TONS (NO ANCHORS)	CONE TYPE: TYPE 2 PIEZOCONE	CONE ID: DSG0867
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DRILLER: EDDIE SWAIN	OPERATOR: CATLIN	START DATE: 02/26/20	COMP. DATE: 02/26/20	SURF. WATER DEPTH: N/A
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(0 HR. GROUNDWATER ESTIMATED FROM PORE PRESSURE)
Boring Terminated at Elevation 134.2 ft

NCDOT CPT DOUBLE (PORTRAIT) NO-LITH I-5987_GEO_ROWY_CATLIN_GTM-DRILLED_REVISED.GPJ NCDOT_CATLIN.GDT 07/30/20

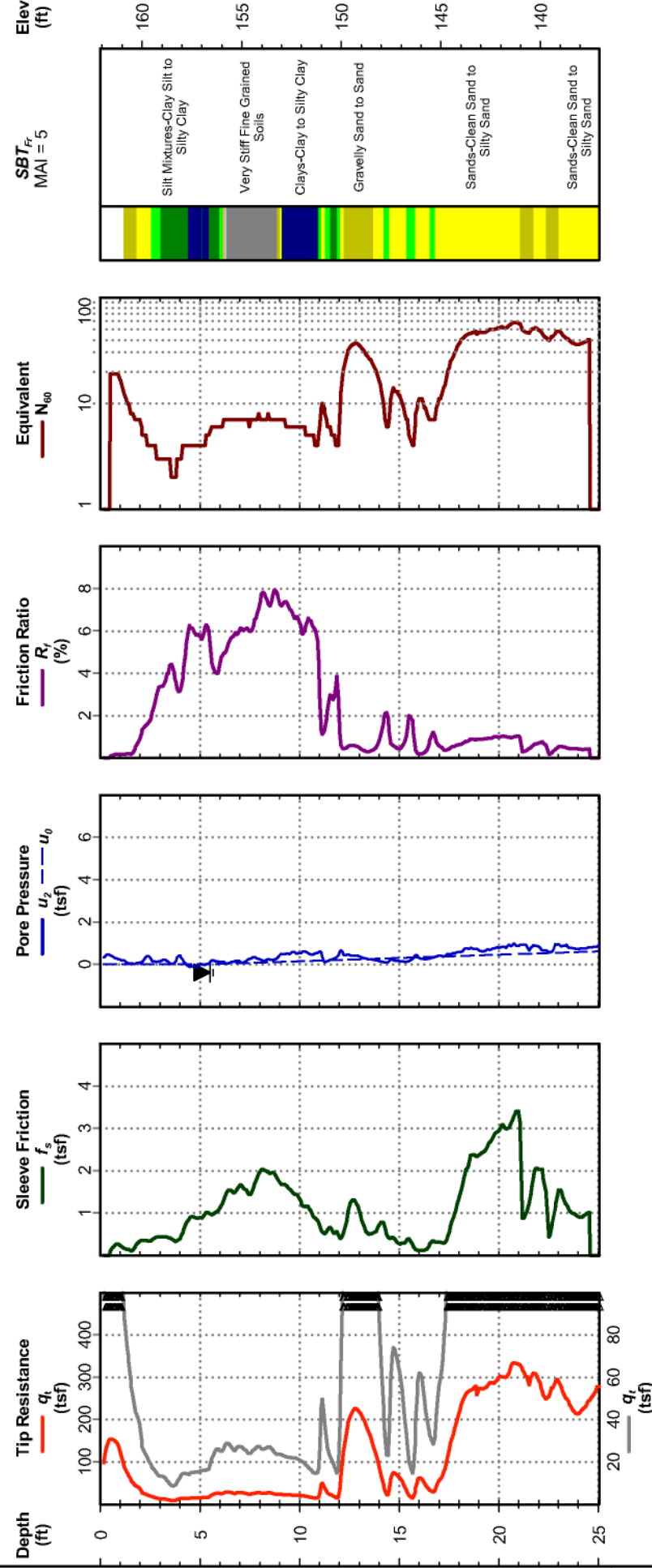


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386403
 Easting: 2004362
 Elevation: 162.1 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 5.5 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 62000

Total Depth: 25.1 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

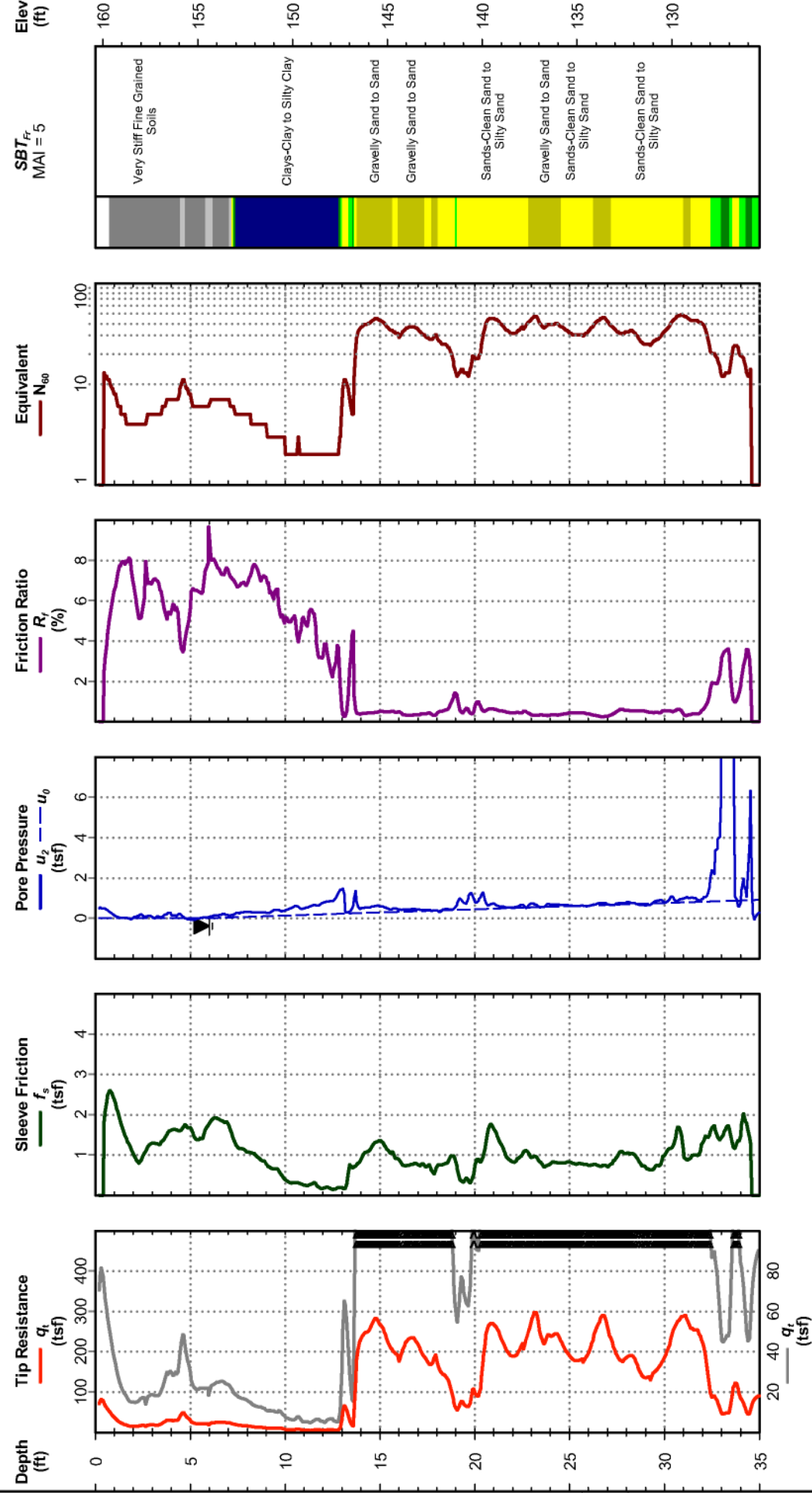


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386507
 Easting: 2004372
 Elevation: 160.4 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 6 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 62100

Total Depth: 35.0 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

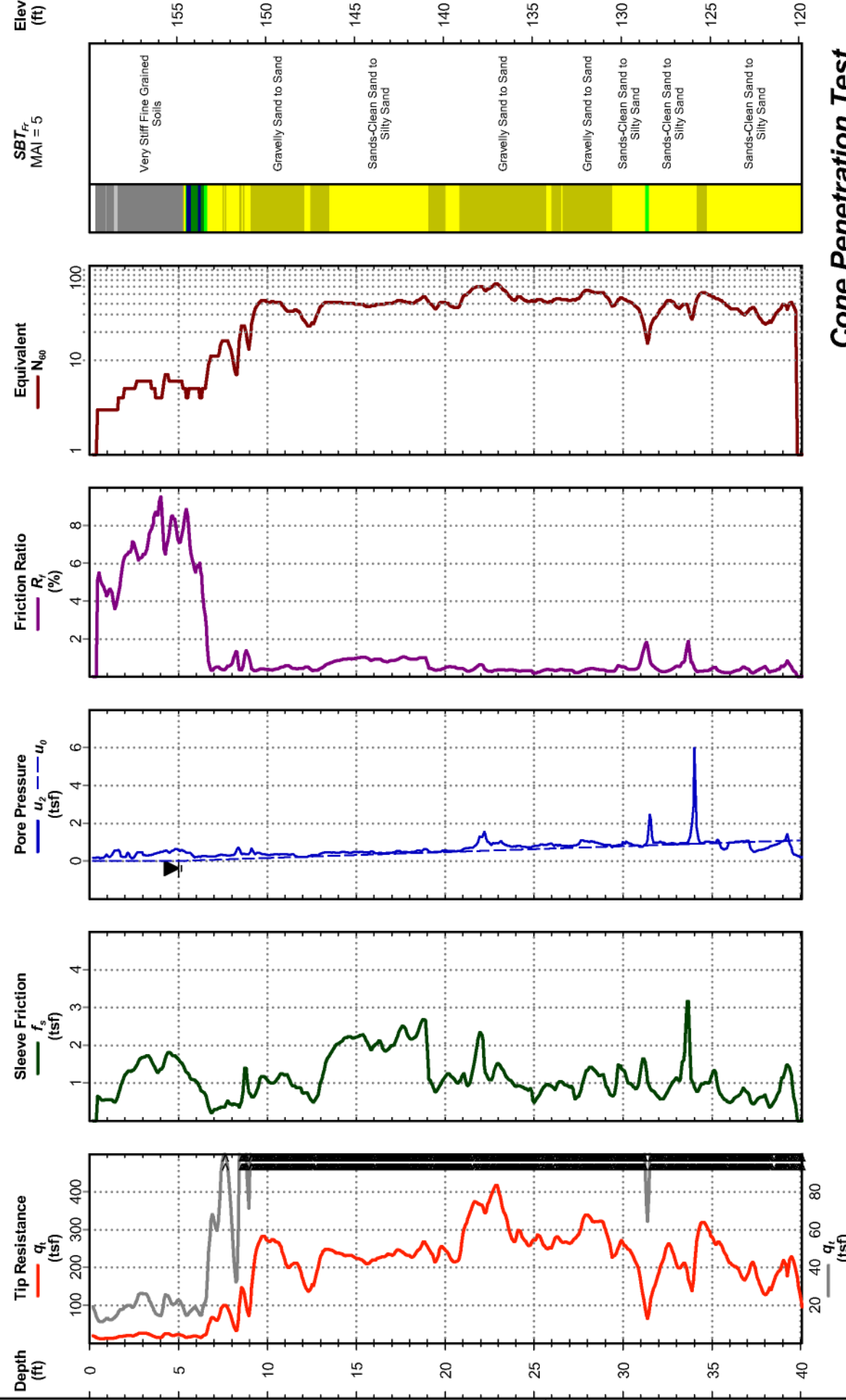


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386709
Easting: 2004411
Elevation: 159.9 ft
Date: Oct. 12, 2021
Estimated Water Depth: 5 ft
Rig/Operator: Marooka/AF | TC

Sounding ID: 62300

Total Depth: 40.1 ft
Termination Criteria: Target Depth
Cone Size: 1.75



Cone Penetration Test

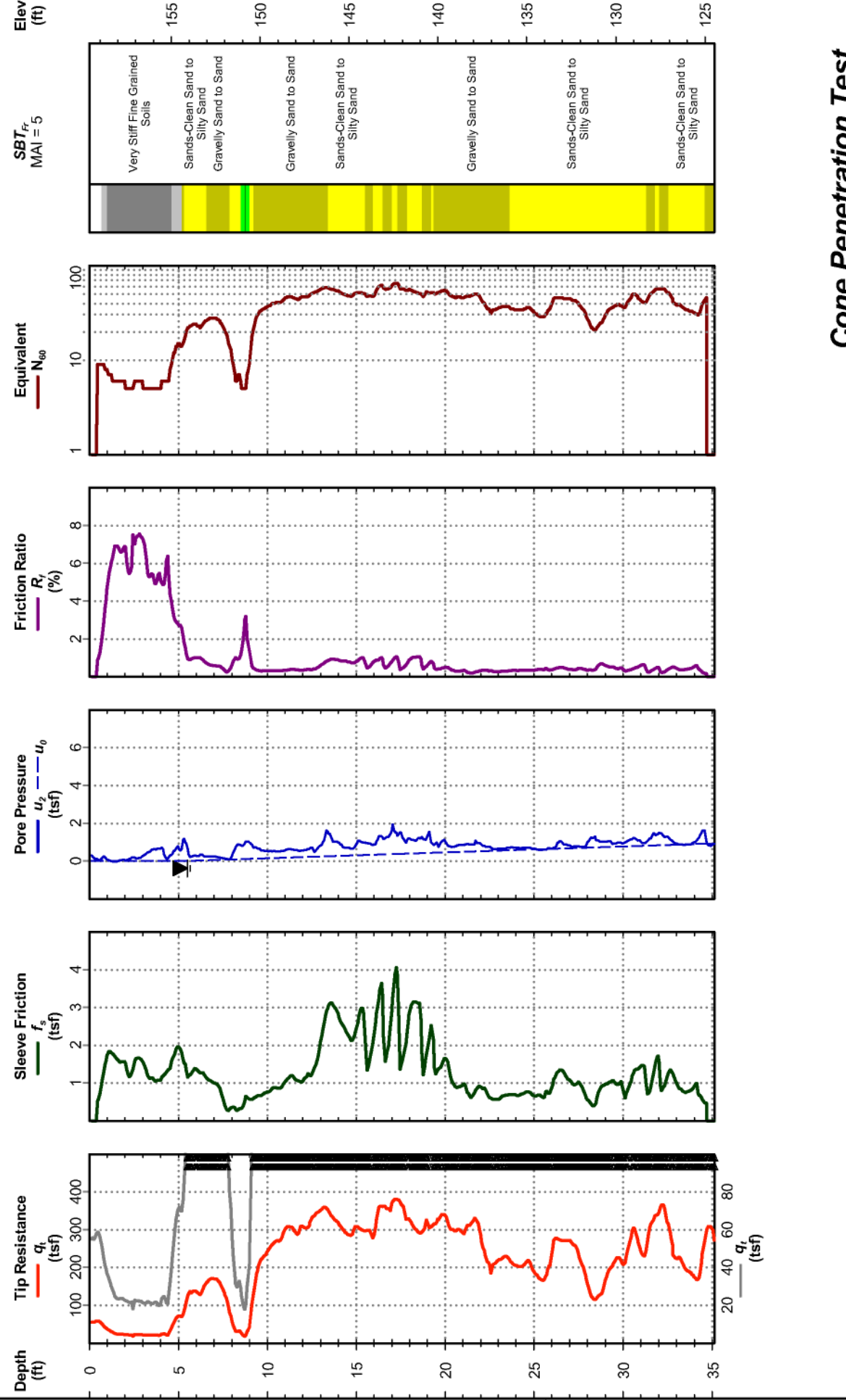


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386671
Easting: 2004545
Elevation: 159.6 ft
Date: Oct. 12, 2021
Estimated Water Depth: 5.5 ft
Rig/Operator: Marooka/AF | TC

Sounding ID: 62301

Total Depth: 35.1 ft
Termination Criteria: Target Depth
Cone Size: 1.75



Cone Penetration Test

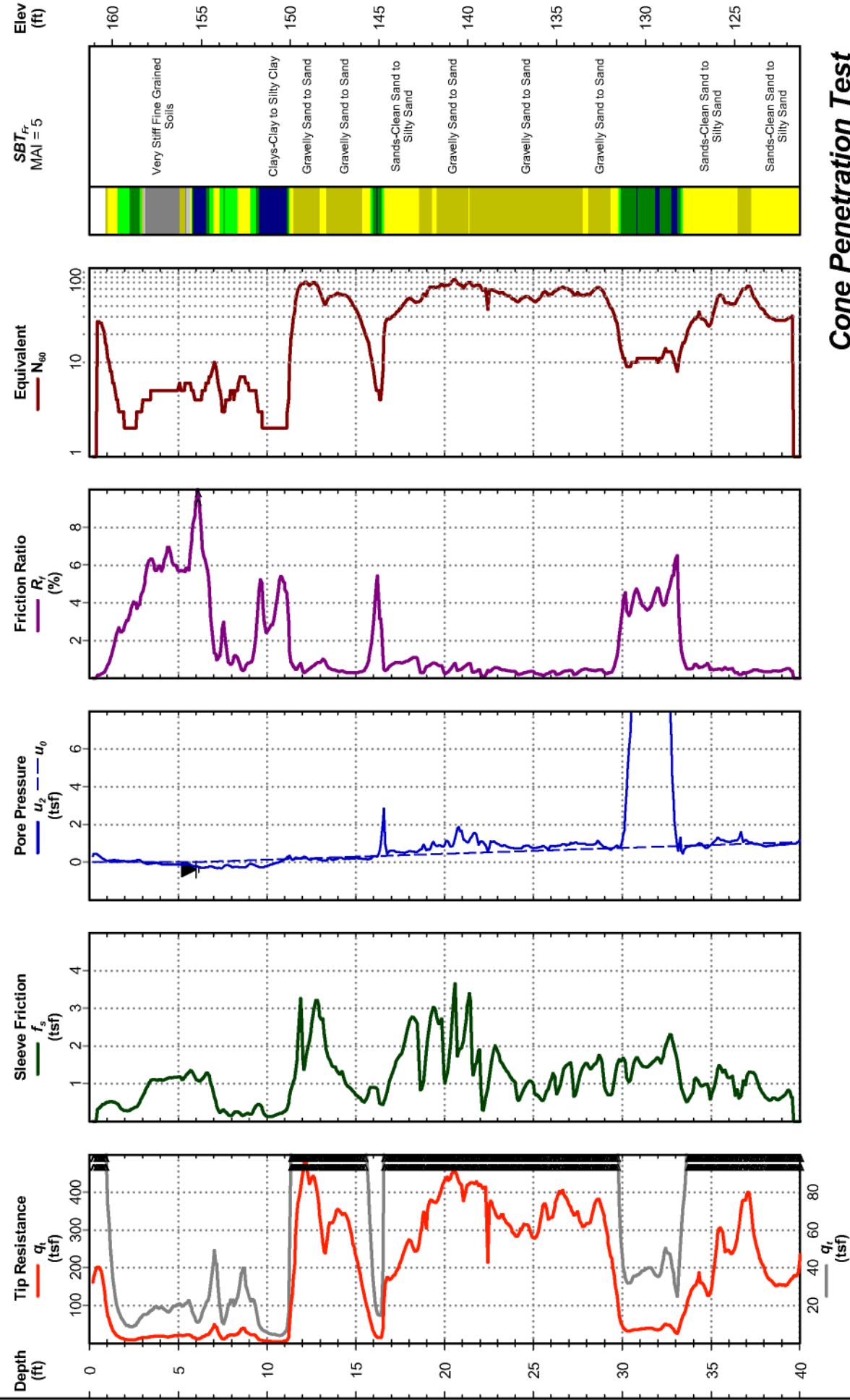


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386861
 Easting: 2004436
 Elevation: 161.3 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 6 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 62450

Total Depth: 40.0 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 62450.DAT

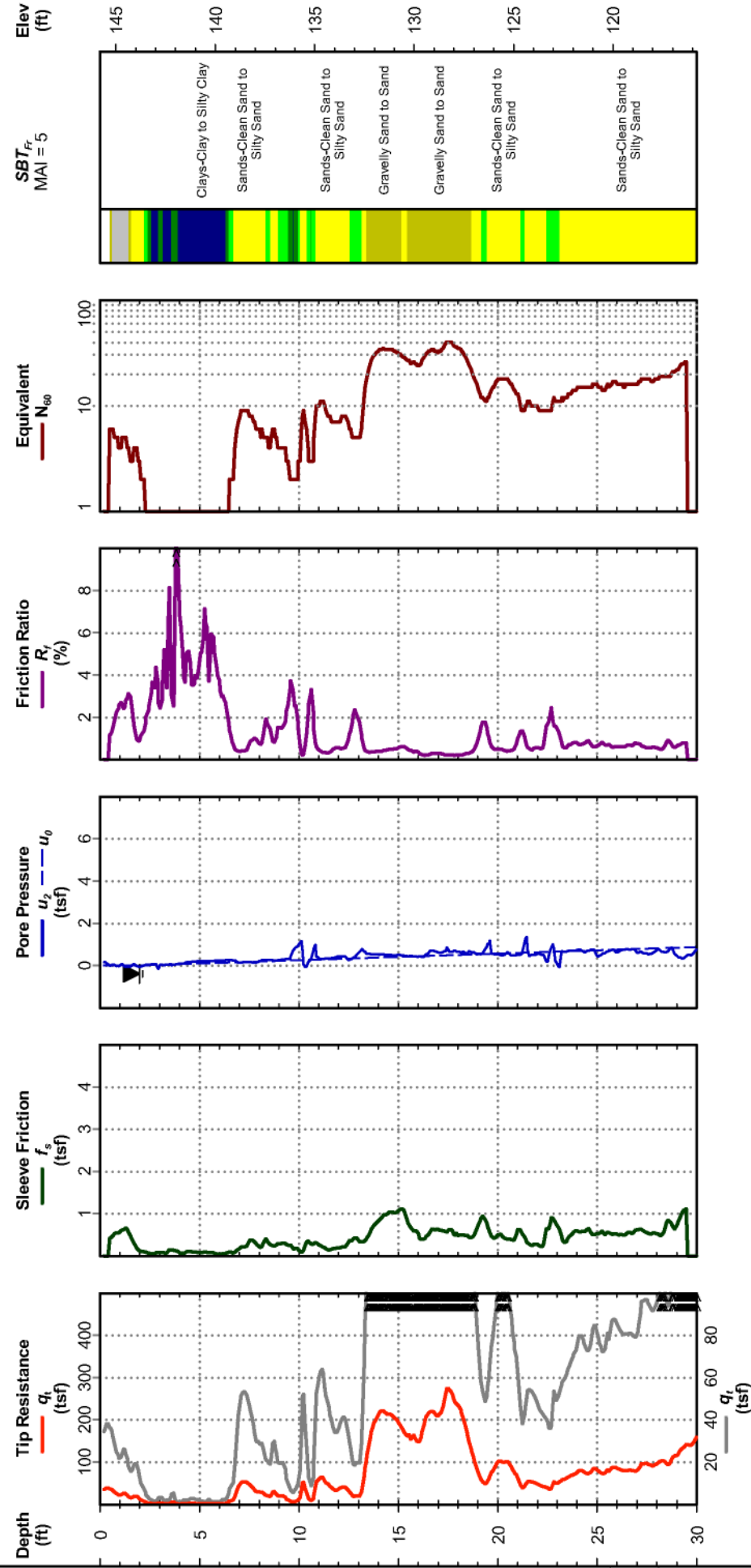


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 402970
 Easting: 2010291
 Elevation: 145.8 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 2 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 79800

Total Depth: 30.0 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 79800.DAT

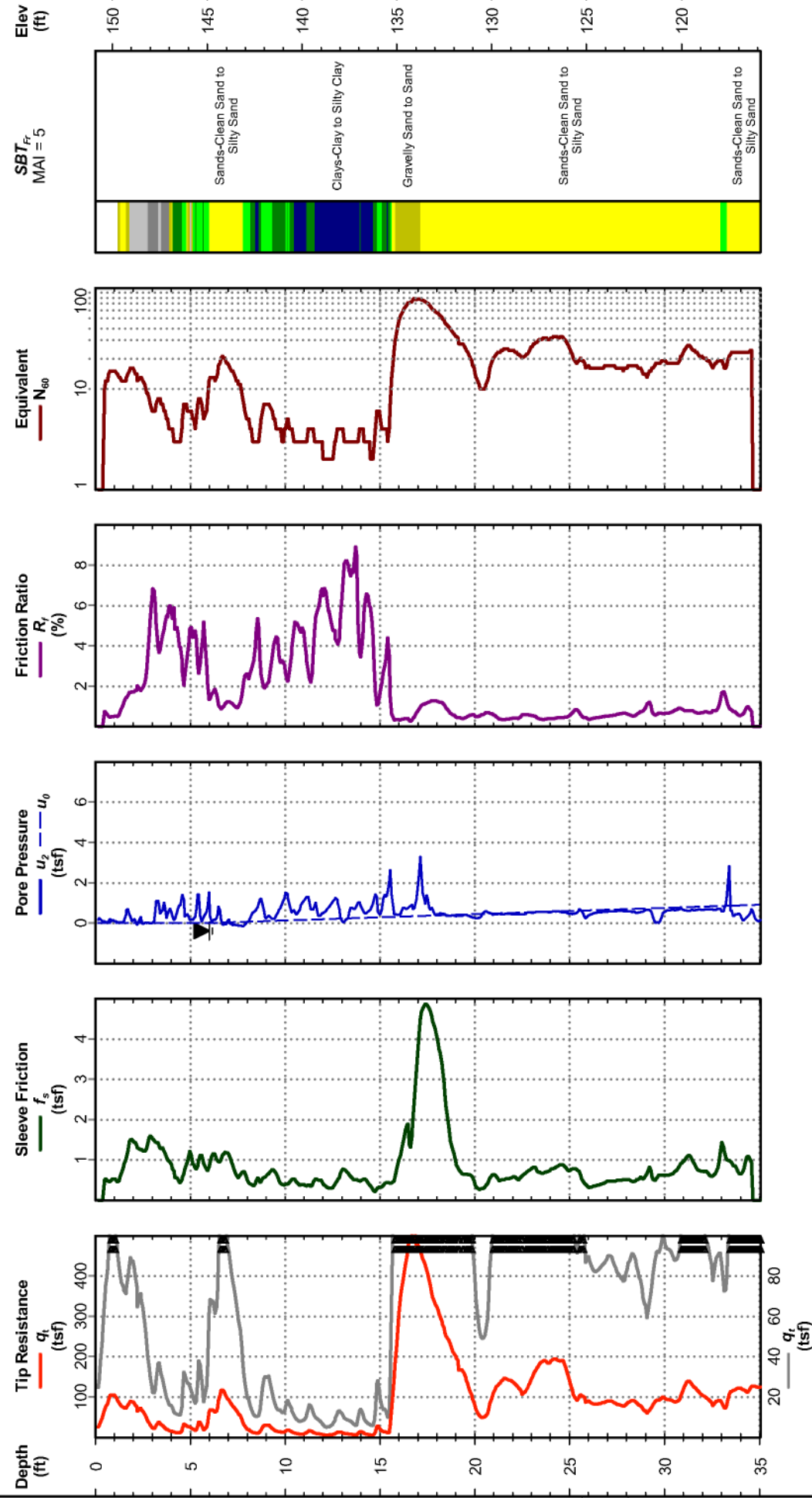


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 402978
Easting: 2010270
Elevation: 150.9 ft
Date: Oct. 12, 2021
Estimated Water Depth: 6 ft
Rig/Operator: Marooka/AF | TC

Sounding ID: 79805

Total Depth: 35.1 ft
Termination Criteria: Target Depth
Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 79805.DAT

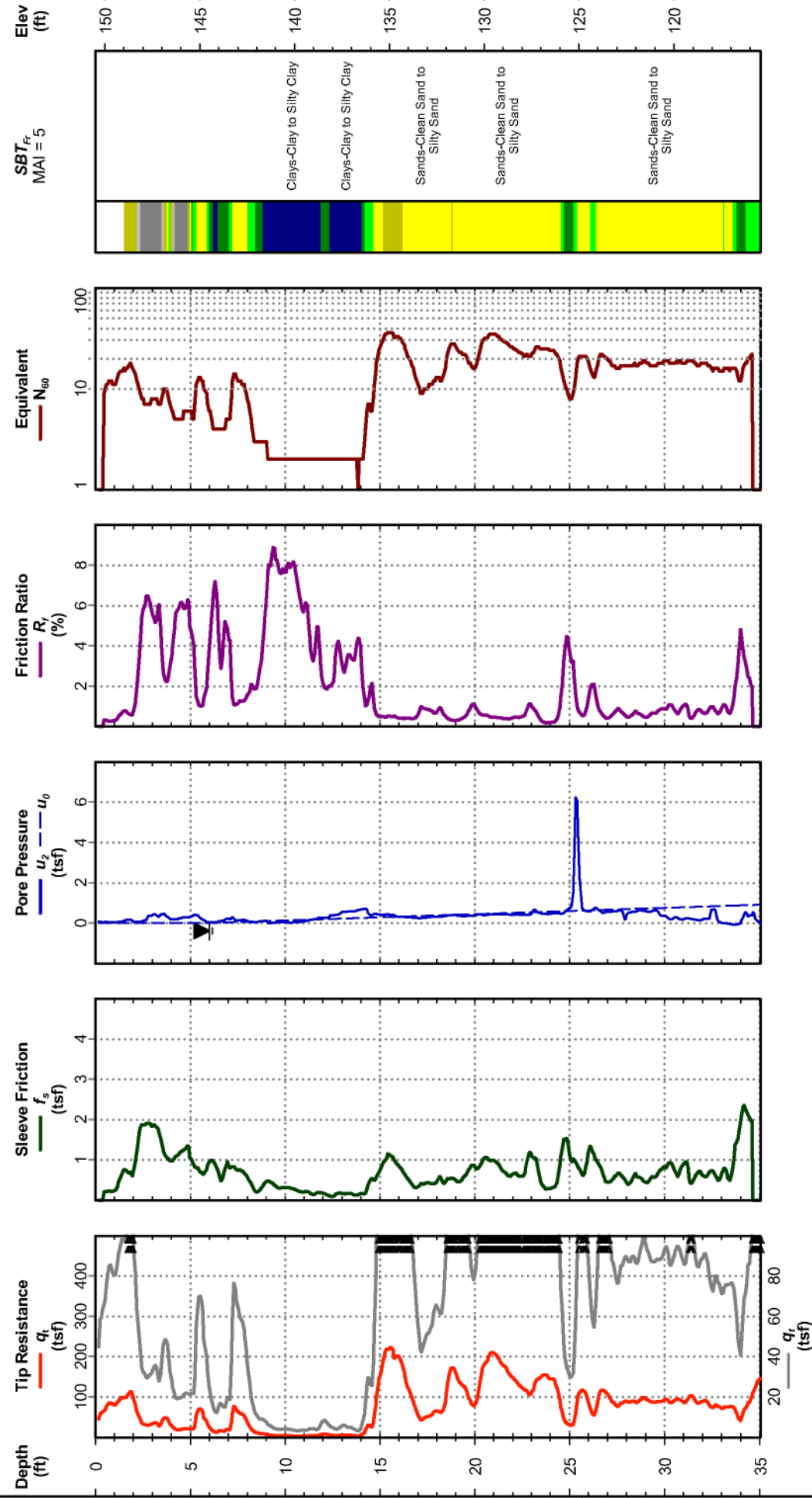


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403078
Easting: 2010285
Elevation: 150.5 ft
Date: Oct. 13, 2021
Estimated Water Depth: 6 ft
Rig/Operator: Marooka/AF | TC

Sounding ID: 79905

Total Depth: 35.0 ft
Termination Criteria: Target Depth
Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 79905.DAT

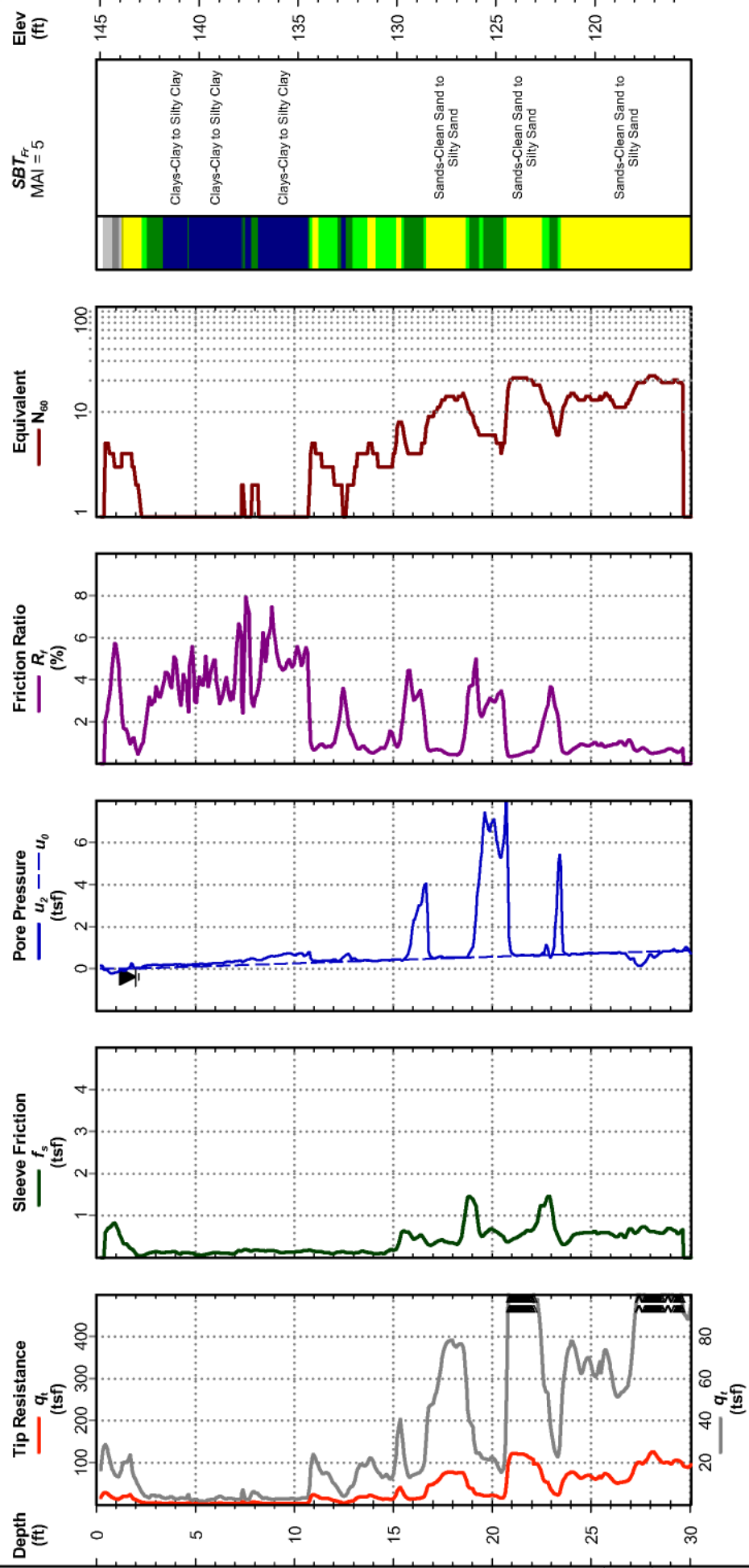


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403079
 Easting: 2010307
 Elevation: 145.2 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 2 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 79910

Total Depth: 30.1 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 79910.DAT

CPT REPORT - STANDARD - SBT FR | I-59 WIDENING (I-5987B) CPT.GPJ | S&ME.GDT | 10/19/21

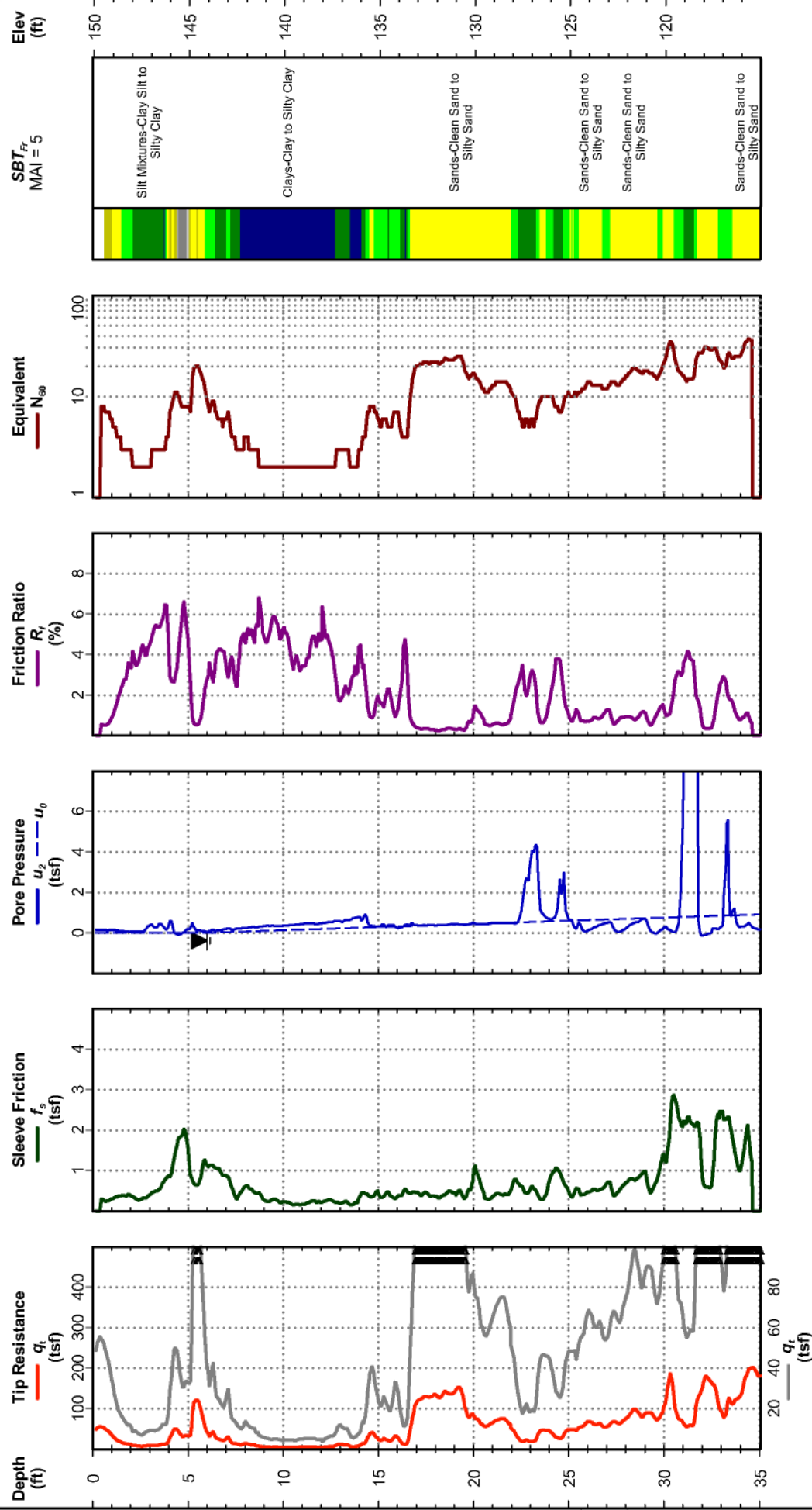


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403196
 Easting: 2010302
 Elevation: 150.1 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 6 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 80025

Total Depth: 35.1 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 80025.DAT

CPT REPORT - STANDARD - SBT FR | I-59 WIDENING (I-5987B) CPT.GPJ | S&ME.GDT | 10/19/21

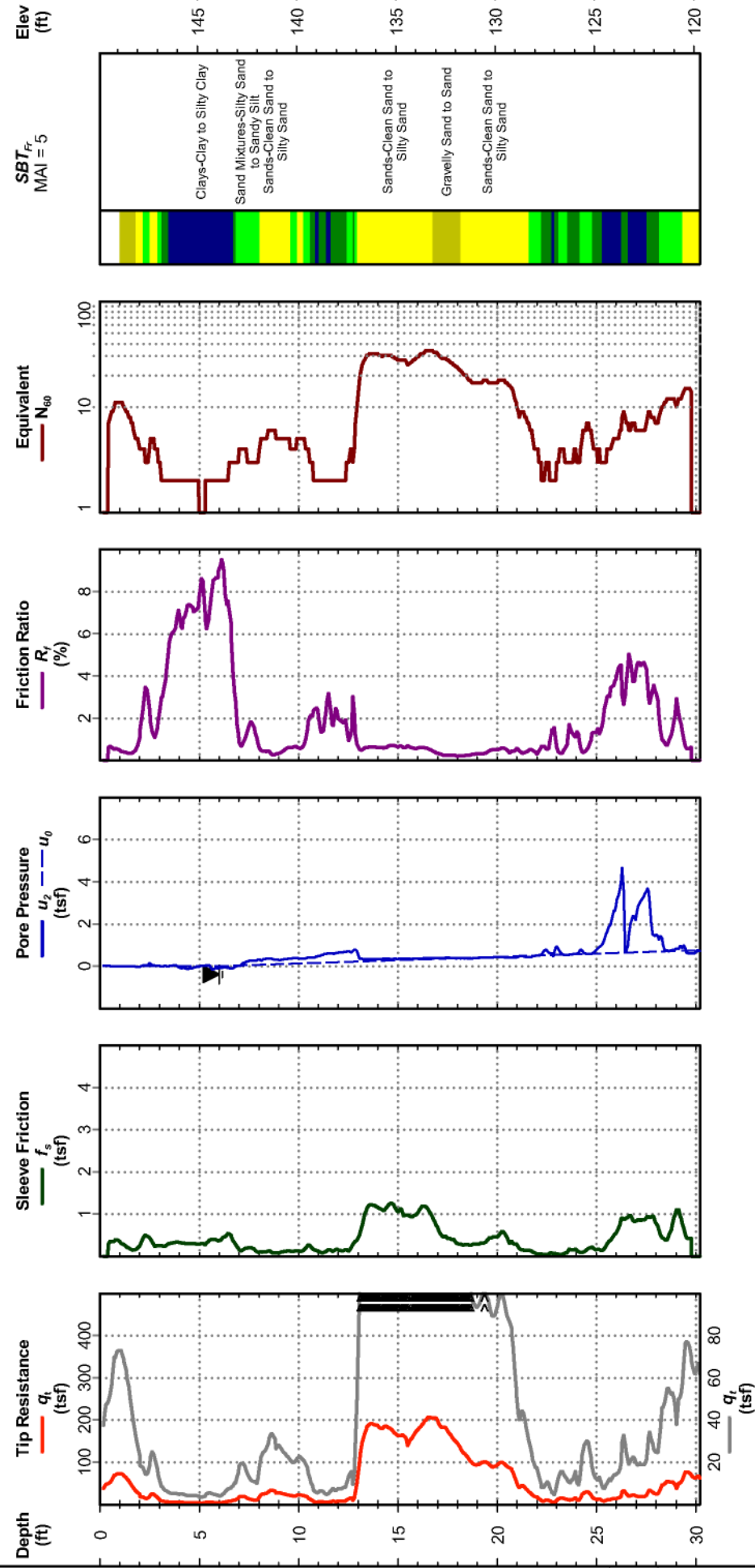


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403864
 Easting: 2010401
 Elevation: 149.9 ft
 Date: Oct. 13, 2021
 Estimated Water Depth: 6 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 80700

Total Depth: 30.2 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 80700.DAT

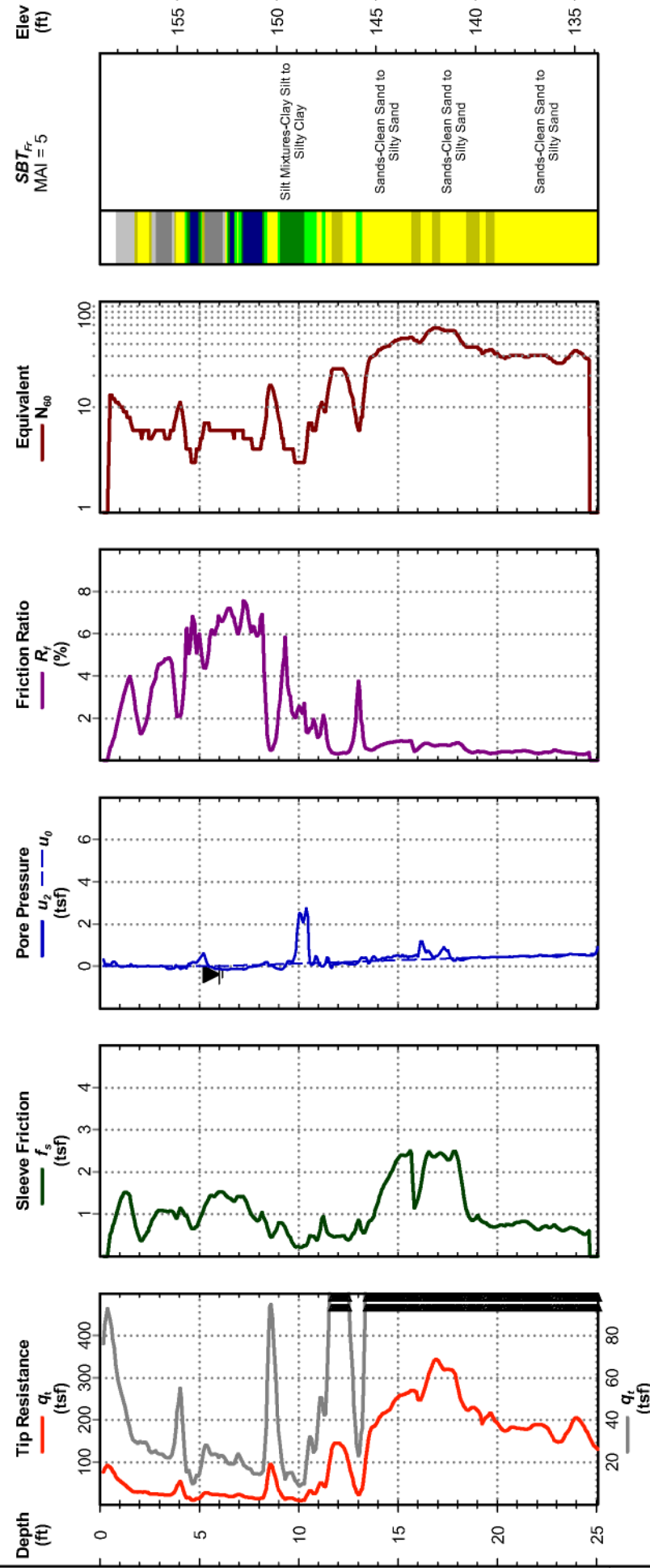


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 386465
 Easting: 2004495
 Elevation: 158.9 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 6 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 62100RT

Total Depth: 25.1 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 62100RT.DAT

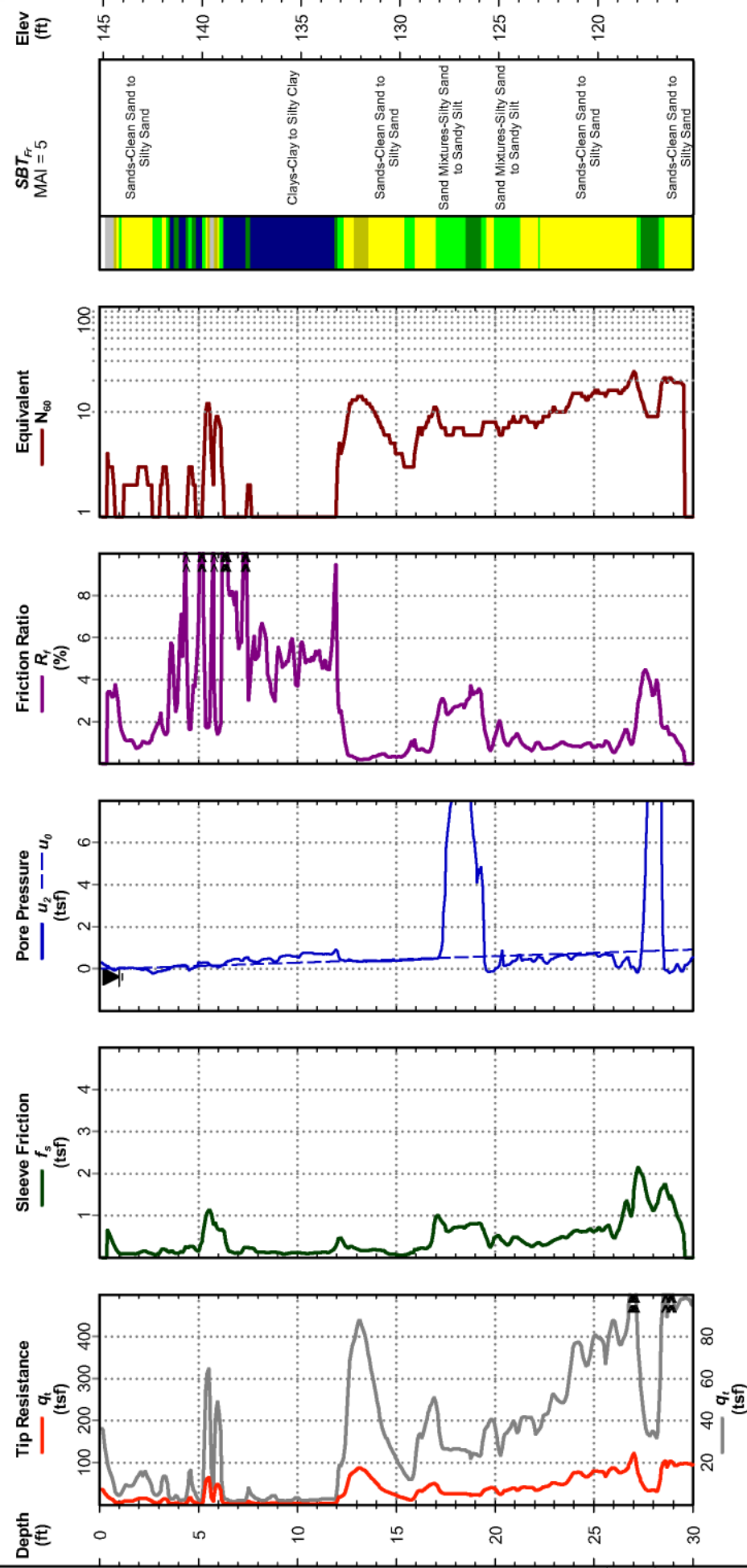


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403193
 Easting: 2010324
 Elevation: 145.2 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 1 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 80025RT

Total Depth: 30.0 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 80025RT.DAT

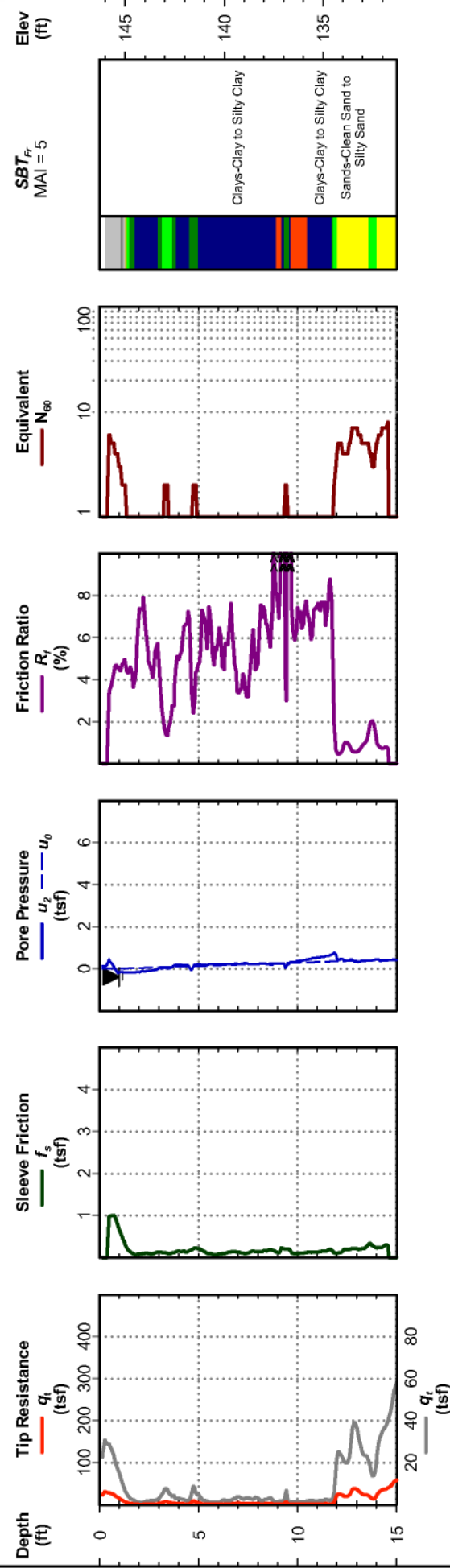


I-95 Widening (I-5987B)
Robeson County, North Carolina
S&ME Project No: 6235-20-008

Northing: 403202
 Easting: 2010319
 Elevation: 146.3 ft
 Date: Oct. 12, 2021
 Estimated Water Depth: 1 ft
 Rig/Operator: Marooka/AF | TC

Sounding ID: 80025RTA

Total Depth: 15.0 ft
 Termination Criteria: Target Depth
 Cone Size: 1.75



Cone Penetration Test

Electronic Filename: 80025TA.DAT