



A horizontal scale bar with a black and white alternating pattern. It is labeled "SCALE IN MILES" below the bar. The bar has markings at 0, 5, 10, 20, and 40.

C

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY

DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
TOMS RIVER TOWNSHIP (SOUTH)	
CTS-100	PLAN - STA. 526+37 TO STA. 546+67
CTS-101	PLAN - STA. 546+67 TO STA. 567+09
CTS-200	TYPICAL SECTIONS - BEACHFILL
CTS-300	CROSS SECTIONS - STA. 530+00 TO STA. 560+00
BOROUGH OF SEASIDE HEIGHTS	
CSH-100	PLAN - STA. 567+09 TO STA. 587+62
CSH-101	PLAN - STA. 587+62 TO STA. 608+70
CSH-200	TYPICAL SECTIONS - BEACHFILL
CSH-300	CROSS SECTIONS - STA. 570+00 TO STA. 600+00
BOROUGH OF SEASIDE PARK	
CSP-100	PLAN - STA. 608+70 TO STA. 636+95
CSP-101	PLAN - STA. 636+95 TO STA. 669+24
CSP-102	PLAN - STA. 669+24 TO STA. 698+01
CSP-200	TYPICAL SECTIONS - BEACHFILL
CSP-300	CROSS SECTIONS - STA. 610+00 TO STA. 650+00
CSP-301	CROSS SECTIONS - STA. 660+00 TO STA. 690+00
BERKELEY TOWNSHIP AND ISLAND BEACH STATE PARK	
CBL-100	PLAN - STA. 698+01 TO STA. 735+40
CBL-200	TYPICAL SECTIONS - BEACHFILL
CBL-300	CROSS SECTIONS - STA. 700+00 TO STA. 730+00
CIVIL	
C-400	DUNE CROSSOVER SCHEDULE
C-401	DUNE CROSSOVER SCHEDULE
C-402	PLANS - PEDESTRIAN CROSSOVER
C-403	PLANS - PEDESTRIAN CROSSOVER
C-404	PLANS - VEHICLE CROSSOVER
C-405	PLANS - CROSSOVER
C-406	PLANS - CROSSOVER
C-407	PLANS - CROSSOVER
C-408	PLANS - CROSSOVER
C-409	PLANS - CROSSOVER
C-410	PLANS - CROSSOVER
C-411	TYP SECTIONS - PEDESTRIAN CROSSOVER
C-412	TYP SECTIONS - PEDESTRIAN CROSSOVER
C-413	TYP SECTIONS - PEDESTRIAN CROSSOVER
C-414	TYPICAL SECTIONS - VEHICLE CROSSOVER
C-415	TYP SECTIONS - ADA CROSSOVER
C-416	TYP SECTIONS - ADA CROSSOVER
C-417	DETAILS - FENCE
C-418	DETAILS - BULKHEAD
C-419	DETAILS - DUNE PLANTING AND SAND FENCE
C-420	DETAILS - MISCELLANEOUS
C-421	DETAILS - STEEL SHEETPILE
C-500	PLAN - BORROW AREAS A AND E
C-501	PLAN - BORROW AREA B
C-502	PLAN - BORROW AREA D



2.5 0 2.5 5 10
SCALE IN MILES

REFERENCE DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
BOROUGH OF BAY HEAD 1503-U-011	
RE-101	U011-MISC - CONSTRUCTION DETAILS
RE-102	U011-MISC - CONSTRUCTION DETAILS (2)
RE-103	PLAN - MOUNT AND HOWE
RE-104	PLAN - JOHNSON AND CHADWICK
RE-105	PLAN - BRIDGE AND HARRIS
RE-106	PLAN - STRICKLAND AND EGBERT
RE-107	PLAN - KARGE AND OSBORNE
BRICK TOWNSHIP AND BOROUGH OF MANTOLOKING 257081	
36	STEEL SHEET PILE - DETAILS
TOMS RIVER SOUTH TOWNSHIP 12-017	
1 OF 5	LOCATION PLAN - 1
2 OF 5	LOCATION PLAN - 2
3 OF 5	CONSTRUCTION DETAILS - 1
4 OF 5	CONSTRUCTION DETAILS - 2
5 OF 5	CONSTRUCTION DETAILS - 3
BOROUGH OF SEASIDE HEIGHTS 12085.00	
1 OF 3	CONSTRUCTION DETAILS
2 OF 3	CONSTRUCTION DETAILS
3 OF 3	CONSTRUCTION DETAILS
BOROUGH OF SEASIDE PARK 1528-U-041	
1 OF 4	TITLE SHEET
2 OF 4	SITE PLAN
3 OF 4	FLOOR AND CEILING PLAN
4 OF 4	CONSTRUCTION DETAILS
BERKELEY TOWNSHIP 1506-U-027	
1 OF 6	TITLE SHEET
2 OF 6	PLAN SHEET - 20TH AVE. AND 21ST AVE.
3 OF 6	PLAN SHEET - 22ND AVE. AND 23RD AVE.
4 OF 6	CONSTRUCTION DETAILS
5 OF 6	CONSTRUCTION DETAILS
6 OF 6	BULKHEAD DETAILS

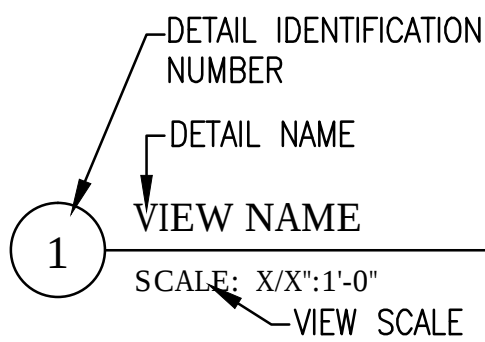
PETER M. TRANCHIK, P.E.
CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY

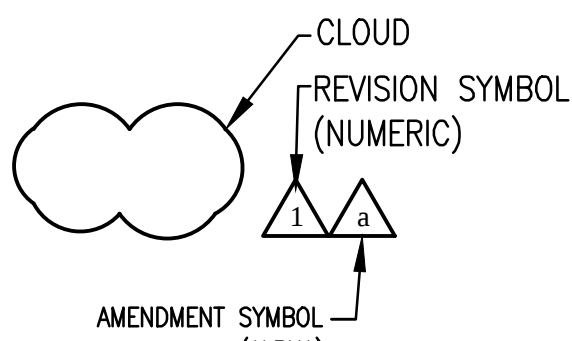
SHEET NUMBER
CS-100

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

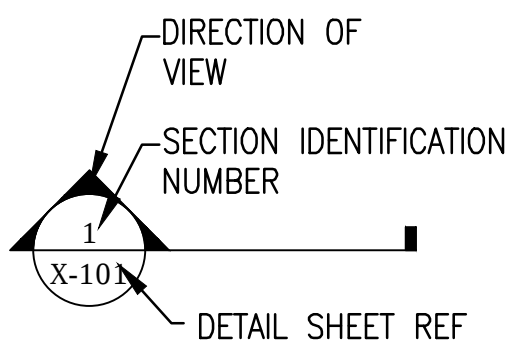
DRAWING SHEET SYMBOLS



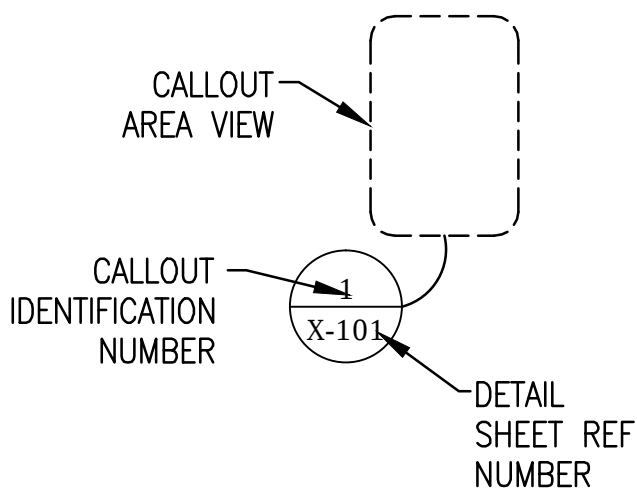
VIEW TITLE SYMBOL



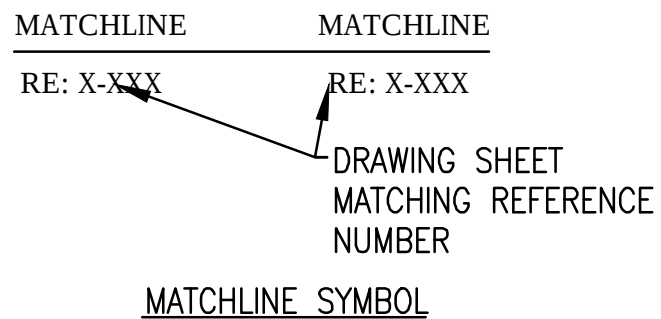
REVISION & AMENDMENT CLOUD AND SYMBOL



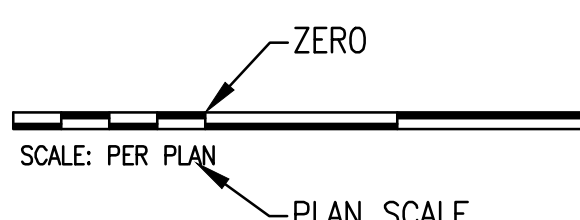
SECTION CUT SYMBOL



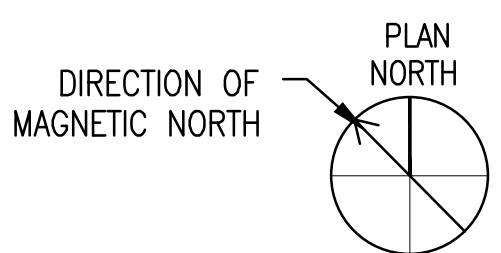
CALLOUT SYMBOL



MATCHLINE SYMBOL



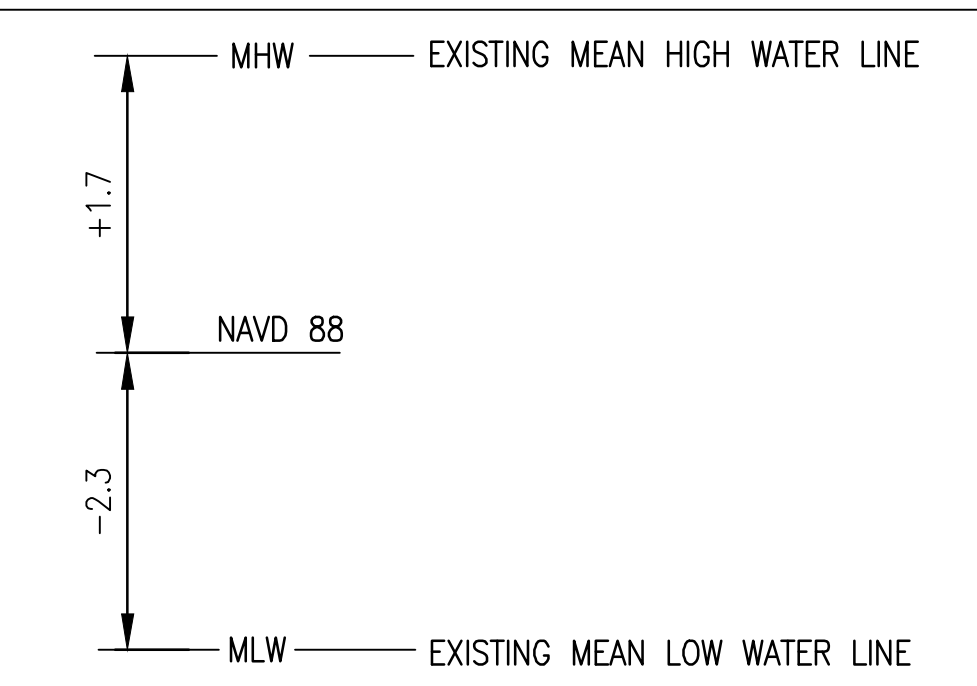
GRAPHIC BAR SCALE SYMBOL



NORTH SYMBOL

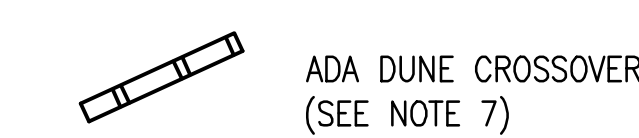
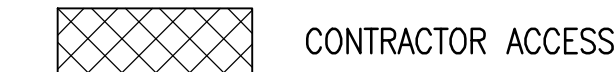
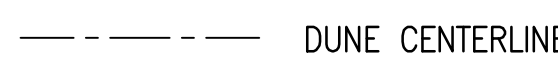
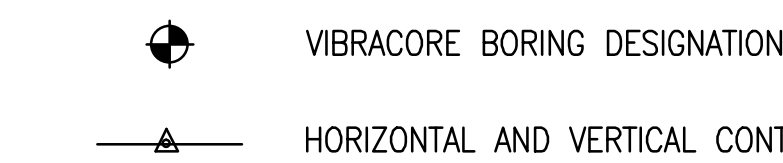
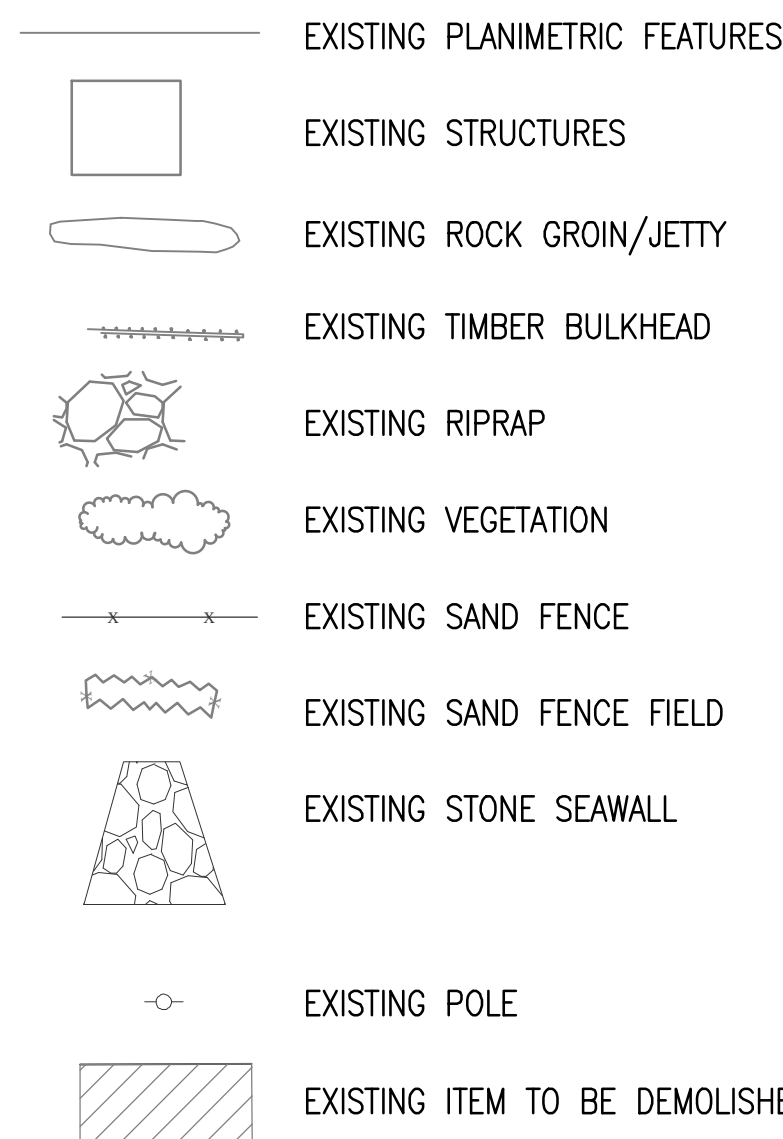
ABBREVIATIONS

ABBRV	DESCRIPTION	ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AD	AREA DRAIN	FDTN	FOUNDATION	PNL	PANEL
ADA	AMERICANS WITH DISABILITIES ACT	FF	FINISHED FLOOR	PSF	POUNDS PER SQUARE FOOT
ADDL	ADDITIONAL	FIN	FINISH	PSI	POUNDS PER SQUARE INCH
AFF	ABOVE FINISHED FLOOR	FL	FLOOR	PVI	POST INDICATOR VALVE
BD	BOARD	FM	FORCE MAIN	RAD	RADIUS
B	SURVEY AND CONSTRUCTION BASELINE	FT	FOOT, FEET	REINF	REINFORCEMENT
BL	BASE LINE	FTG	FOOTING	REM	REMOVABLE
BLDG	BUILDING	G	GROUND	ROW	RIGHT OF WAY
BM	BEAM	GALV	GALVANIZED	S	SOUTH
BMP	BEST MANAGEMENT PRACTICE	GOVT	GOVERNMENT	SCH	SCHEDULE
BOT	BOTTOM	GR	GRADE	SECT	SECTION
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION	HORIZ	HORIZONTAL	SPEC	SPECIFICATION
C	CENTER LINE	HS	HIGH STRENGTH	SPRT	SUPPORT
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT	SQ	SQUARE
CO	CLEAN OUT	HVY	HEAVY	SST	STAINLESS STEEL
CONC	CONCRETE	IN	INCH	STA	STATION
CONSTR	CONSTRUCTION	IINT	INTERIOR	STRUCT	STRUCTURAL
CONT	CONTINUOUS	INV	INVERT	SUSP	SUSPENDED
COR	CONTRACTING OFFICER REPRESENTATIVE	LL	LIVE LOAD	SYS	SYSTEM
CTRL	CONTROL	LP	LOW POINT	TEMP	TEMPORARY
CWL	CONTRACTOR WORK LIMITS	LT	LIGHT	TD	TRENCH DRAIN
DET	DETAIL	LVC	LENGTH OF VERTICAL CURVE	TD0	TRENCH DRAIN OUTLET PIPE
DGA	DENSE GRADED AGGREGATE	JCT	JUNCTION	TELE	TELEPHONE
DIA	DIAMETER	MATL	MATERIAL	TOPO	TOPOGRAPHY
DIM	DIMENSION	MAX	MAXIMUM	TYP	TYPICAL
DL	DEAD LOAD	MIN	MINIMUM	UD	UNDERDRAIN
DWG	DRAWING	MISC	MISCELLANEOUS	UDO	UNDERDRAIN OUTLET PIPE
E	EAST	N	NORTH	UE	UNDERGROUND ELECTRIC
EA	EACH	NLT	NOT LESS THAN	UGND	UNDERGROUND
ECM	EROSION CONTROL MAT	NO	NUMBER	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	UOP	UNDERDRAIN OUTLET PIPE
EL	ELEVATION	OC	ORIGINAL CONSTRUCTION	UXO	UNEXPLODED ORDNANCE
ELEC	ELECTRIC	OD	OUTSIDE DIAMETER	VB	VINYL BASE
EOP	EDGE OF PAVEMENT	OH	OVERHEAD	VC	VERTICAL CURVE
EOS	EDGE OF SHOULDER	OFF	OFFSET	VCT	VINYL COMPOSITION TILE
EQ	EQUAL	OPG	OPENING	VOL	VOLUME
EQUIP	EQUIPMENT	OPP	OPPOSITE	VERT	VERTICAL
EXH	EXHAUST	PC	POINT OF CURVE	VTR	VENT THROUGH ROOF
EXIST	EXISTING	PD	PAVEMENT DRAIN	W/	WITH
EXP	EXPANSION, EXPOSED	PI	POINT OF INFLECTION	W	WEST
EXP JT	EXPANSION JOINT	PIV	POINT OF VERTICAL INFLECTION	WL	WATER LEVEL
EXT	EXTERIOR	POT	POINT OF TANGENT	WS	WATER SURFACE
FIG	FIGURE SINGLE	PMP	PROBABLE MAXIMUM PRECIPITATION	W/O	WITHOUT



TIDAL REFERENCE (SEASIDE PARK, NJ)
NTS

BEACHFILL LEGEND



DETAIL LEGEND



GENERAL NOTES:

- ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS OF A FOOT AND REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
- HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
- THE CONTRACTOR WORK LIMIT AND LIMIT OF DISTURBANCE LINES ARE COINCIDENT, SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
- THE CONTRACTOR SHALL ACCESS THE SITE FROM THE LOCATIONS SHOWN.
- THE EXISTING PLANIMETRIC MAPPING AND CROSS SECTION PLOTS ARE A RESULT OF SURVEYS CONDUCTED IN SEPTEMBER, 2013 AND JULY, 2013. THIS INFORMATION CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE CONDITIONS EXISTING AT THAT TIME.
- PROPOSED DUNE FENCE IS NOT SHOWN ON PLAN VIEWS FOR CLARITY. SEE SHEET C-419 FOR DETAILS.
- AN "ADA DUNE CROSSOVER" REFERS TO THE CROSSOVER THAT COMPLIES WITH THE ACCESSIBILITY REQUIREMENTS FOUND IN THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA), INCLUDING CHANGES MADE BY THE ADA AMENDMENTS ACT OF 2008 (P.L. 110-35), EFFECTIVE AS OF JANUARY 1, 2009.



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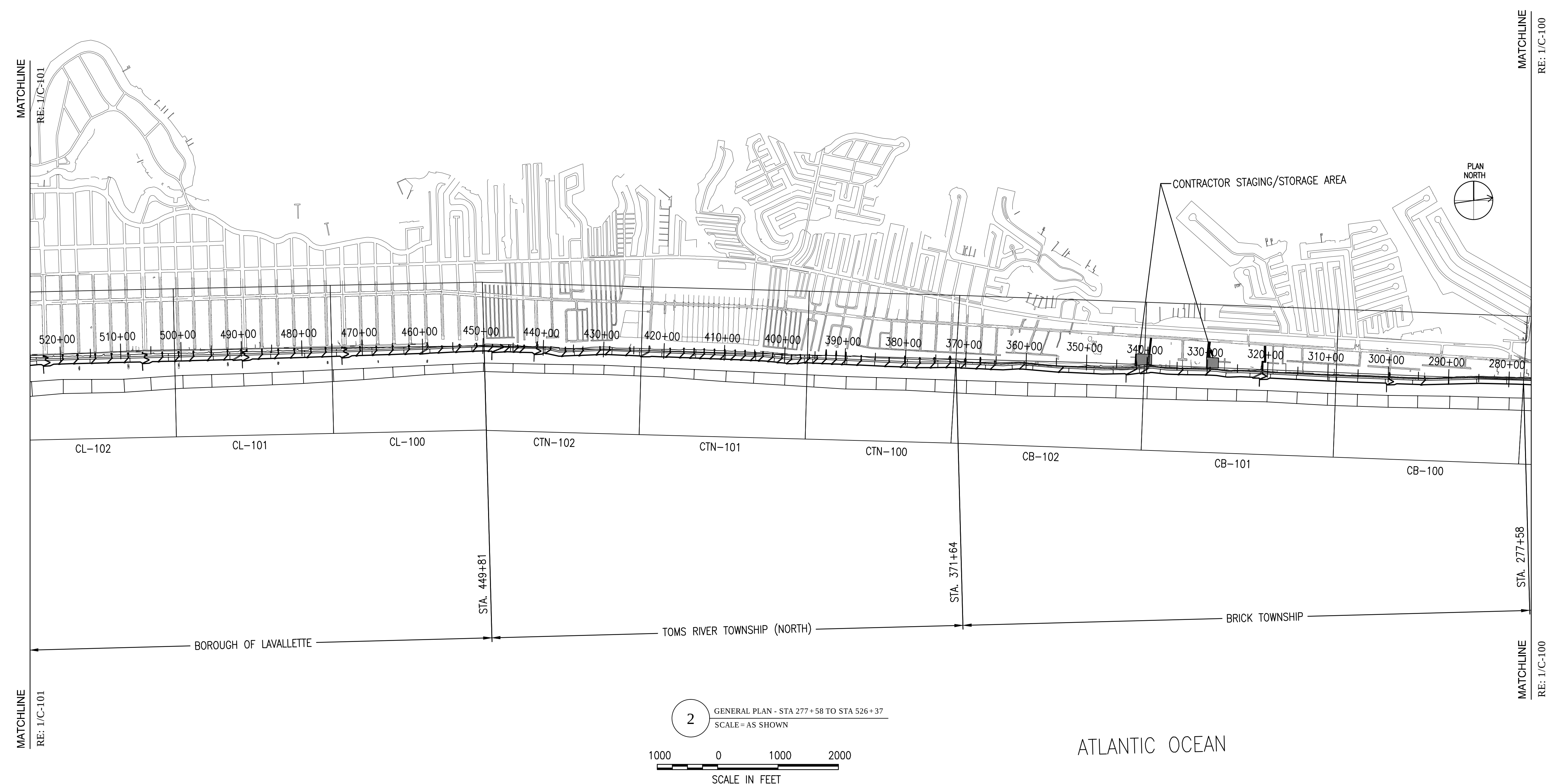
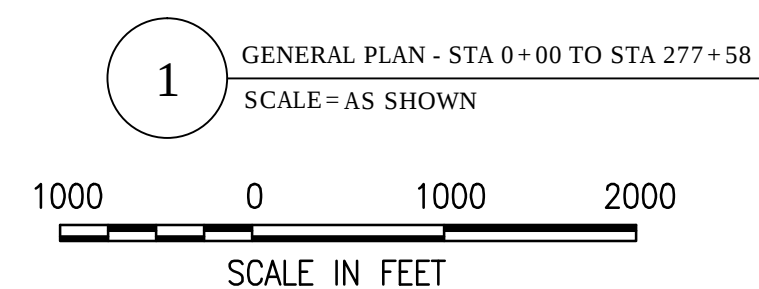
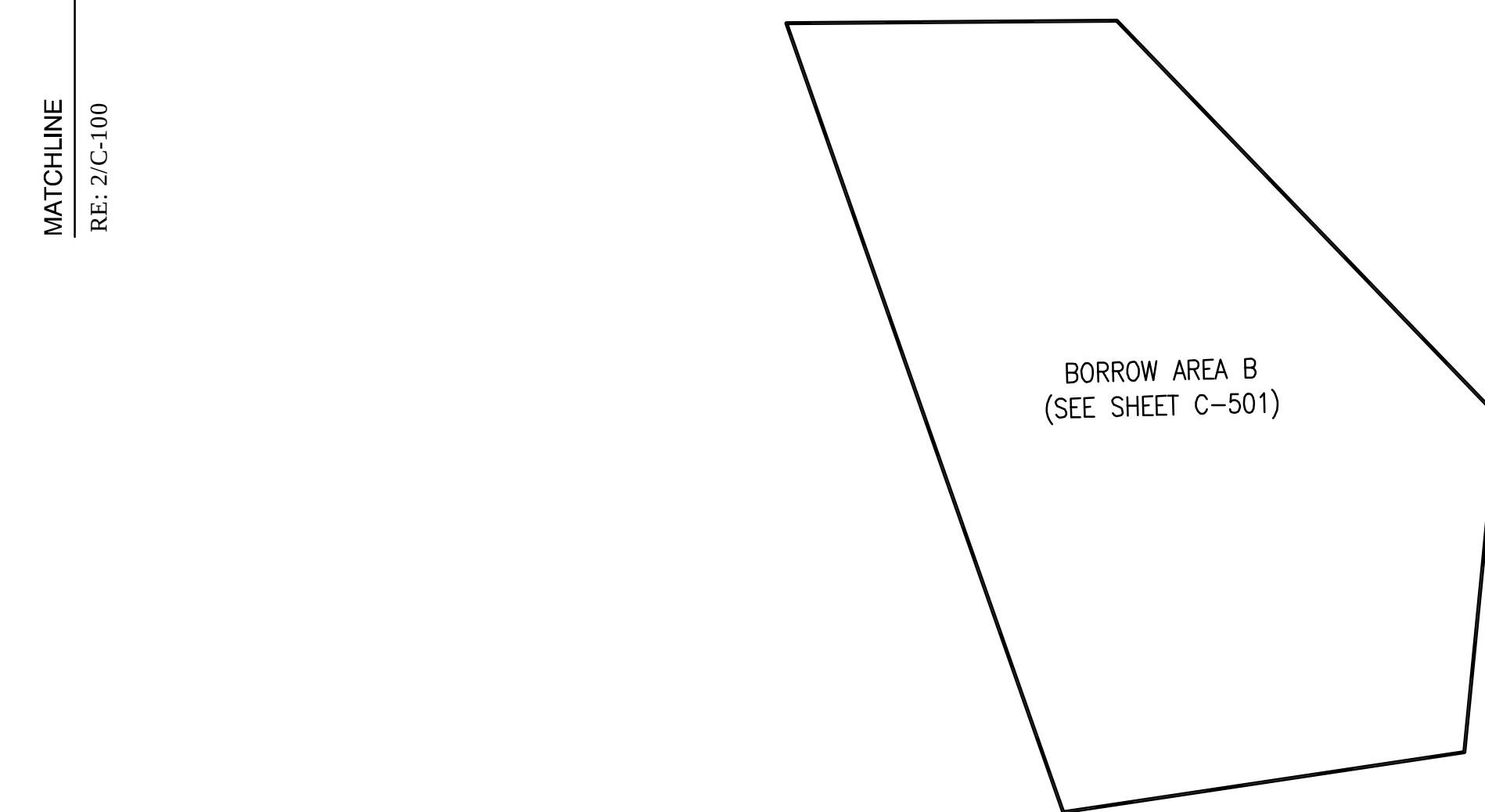
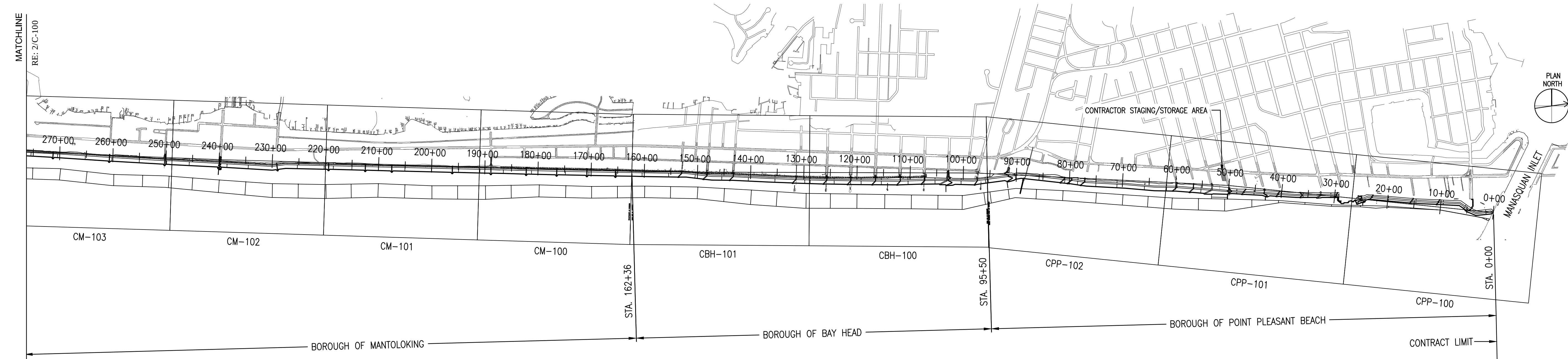
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CONTRACTOR		WORK	LIMIT	COORDINATES
POINT	NO.	NORTHING	EASTING	
1		461574.29	623364.27	
2		461810.06	623013.61	
3		461903.68	622995.27	
4		462179.62	622584.87	
5		461931.45	622418.01	
6		461924.39	622473.04	
7		461765.69	622452.67	
8		461780.68	622335.87	
9		461204.19	622231.23	
10		460757.08	622140.73	
11		460706.28	622122.49	
12		460254.93	622019.58	
13		459866.26	621907.16	
14		459504.70	621806.57	
15		459005.08	621729.18	
16		458277.14	621616.40	
17		457270.45	621410.56	
18		457267.74	621384.50	
19		457010.93	621331.99	
20		457008.03	621304.09	
21		456948.75	621314.17	
22		456691.94	621261.65	
23		456682.70	621170.82	
24		456622.82	621177.05	
25		456630.31	621249.05	
26		456373.50	621196.54	
27		456367.26	621136.61	
28		456306.28	621130.28	
29		456311.86	621183.93	
30		456159.07	621183.31	
31		454691.94	620883.30	
32		454737.96	620750.97	
33		454683.01	620726.28	
34		454642.57	620842.59	
35		454434.99	620800.14	
36		454467.51	620706.63	
37		454425.83	620674.27	
38		454377.85	620812.24	
39		454268.40	620772.74	
40		454130.30	620714.03	
41		453835.38	620642.61	
42		453258.98	620544.89	
43		453298.20	620453.34	
44		453249.54	620439.96	
45		453224.47	620498.47	
46		452970.91	620455.49	
47		452924.50	620563.82	
48		452855.90	620560.20	
49		452706.56	620443.51	
50		452646.01	620432.31	
51		452590.87	620559.37	
52		452189.46	620490.53	
53		452138.13	620455.14	
54		452160.30	620338.18	
55		452106.38	620327.34	
56		452079.12	620471.11	
57		452079.12	620471.11	
58		451698.73	620324.96	
59		451644.67	620314.84	
60		451630.16	620392.76	
61		451630.16	620392.76	
62		451249.74	620275.18	
63		451195.70	620264.94	
64		451184.43	620326.70	
65		450785.61	620271.46	
66		450794.34	620223.99	
67		450725.85	620209.37	
68		450716.24	620261.63	
69		450320.29	620203.85	
70		450331.34	620144.94	

CONTRACTOR		WORK LIMIT	COORDINATES
POINT NO.	NORTHING	EASTING	
71	450277.11	620135.76	
72	450265.91	620195.39	
73	450057.90	620160.49	
74	449973.78	620148.95	
75	449870.64	620129.07	
76	449879.54	620082.72	
77	449832.87	620074.10	
78	449832.87	620074.10	
79	449287.08	620024.01	
80	449326.66	619813.41	
81	449321.32	619812.46	
82	449281.71	620023.08	
83	448776.67	619927.79	
84	448136.26	619799.85	
85	448151.17	619738.65	
86	448112.16	619729.82	
87	448096.78	619792.93	
88	447771.74	619740.01	
89	447653.45	619711.33	
90	447666.01	619658.79	
91	447627.24	619648.94	
92	447614.41	619701.86	
93	447430.05	619657.16	
94	447175.47	619610.06	
95	447219.70	619430.14	
96	447209.49	619428.29	
97	447166.14	619608.34	
98	446170.77	619424.12	
99	445949.30	619385.84	
100	445975.00	619193.78	
101	445965.11	619192.34	
102	445939.44	619384.11	
103	445421.63	619292.66	
104	445448.83	619100.58	
105	445438.93	619099.16	
106	445411.77	619290.94	
107	444862.69	619194.91	
108	444884.91	619012.38	
109	444875.03	619010.80	
110	444852.83	619193.20	
111	444297.95	619096.91	
112	444321.57	618924.61	
113	444311.68	618923.09	
114	444288.09	619095.22	
115	443659.98	619887.73	
116	443686.49	618826.50	
117	443636.22	618818.75	
118	443610.69	618976.90	
119	442926.71	618857.92	
120	442968.54	618547.71	
121	442958.62	618546.45	
122	442916.85	618856.21	
123	441805.42	618662.89	
124	441843.20	618393.58	
125	441833.30	618392.15	
126	441795.56	618661.17	
127	441314.50	618577.50	
128	441348.37	618325.63	
129	441338.46	618324.26	
130	441304.65	618575.78	
131	440634.20	618459.16	
132	440664.81	618231.51	
133	440654.93	618229.99	
134	440624.34	618457.45	
135	439775.59	618310.28	
136	439663.15	618317.42	
137	439707.31	618098.45	
138	439697.39	618097.03	
139	439652.31	618320.58	
140	439524.89	618294.11	

CONTRACTOR		WORK	LIMIT	COORDINATES
POINT	NO.			
	141	439523.01		618303.93
	142	438643.29		618121.17
	143	438659.03		618050.55
	144	438602.09		618039.44
	145	438586.97		618109.31
	146	437616.65		617906.60
	147	437628.42		617849.46
	148	437589.23		617841.46
	149	437576.48		617903.35
	150	437379.24		617862.45
	151	436593.57		617699.16
	152	436643.60		617462.14
	153	436604.43		617454.05
	154	436555.51		617685.80
	155	435544.40		617473.52
	156	435592.39		617243.64
	157	435582.60		617241.59
	158	435534.61		617471.47
	159	434949.23		617348.57
	160	434879.57		617336.80
	161	434153.16		617214.08
	162	433300.73		617122.17
	163	433340.97		616935.59
	164	433325.31		616932.17
	165	433286.83		617120.67
	166	432729.97		617012.54
	167	432760.00		616881.17
	168	432742.35		616877.35
	169	432714.01		617009.44
	170	431811.91		616834.26
	171	431021.74		616680.82
	172	430716.04		616621.45
	173	430670.02		616604.93
	174	430670.02		616604.93
	175	430648.43		616525.49
	176	430629.71		616572.63
	177	430531.29		616571.81
	178	430088.86		616498.26
	179	429938.76		616452.62
	180	429968.53		616287.23
	181	429773.87		616243.54
	182	429742.81		616417.66
	183	429358.27		616349.07
	184	429376.27		616241.15
	185	429366.41		616239.51
	186	429348.42		616347.31
	187	429151.45		616312.17
	188	429128.10		616306.36
	189	428853.28		616229.79
	190	428882.66		616063.79
	191	428618.75		616015.99
	192	428577.98		616204.81
	193	428398.34		616187.05
	194	428050.82		616138.94
	195	427902.56		616044.76
	196	427684.59		615998.33
	197	427483.38		616027.11
	198	427412.56		616013.57
	199	427433.47		615960.79
	200	427413.67		615956.47
	201	427392.57		616009.75
	202	427314.52		615994.83
	203	426785.14		615869.15
	204	426841.56		615749.73
	205	426816.47		615746.19
	206	426761.07		615863.44
	207	426503.67		615802.33
	208	426418.72		615828.74
	209	426321.16		615809.23
	210	426343.45		615704.43

CONTRACTOR		WORK	LIMIT	COORDINATES
POINT	NO.	NORTHING	EASTING	
211		426294.40	615694.74	
212		426272.13	615799.42	
213		426079.81	615760.95	
214		426101.78	615652.22	
215		426052.94	615641.48	
216		426030.78	615751.14	
217		425833.42	615711.66	
218		425855.73	615603.14	
219		425806.11	615596.23	
220		425784.39	615701.85	
221		425588.33	615662.63	
222		425610.61	615554.72	
223		425561.89	615543.41	
224		425539.31	615652.82	
225		425338.27	615630.03	
226		425364.51	615503.50	
227		425315.30	615494.57	
228		425315.30	615494.57	
229		425090.69	615585.20	
230		425118.74	615452.91	
231		425069.85	615442.40	
232		425041.64	615575.48	
233		424847.87	615537.08	
234		424875.76	615401.24	
235		424826.77	615391.23	
236		424798.80	615527.51	
237		424605.06	615489.74	
238		424632.27	615352.47	
239		424583.41	615341.77	
240		424555.99	615480.17	
241		424307.80	615434.08	
242		424262.31	615415.94	
243		424268.37	615400.74	
244		423976.60	615295.09	
245		423986.38	615269.47	
246		423917.72	615250.39	
247		423925.45	615229.97	
248		423895.31	615216.38	
249		423885.79	615241.52	
250		423759.11	615206.31	
251		423767.98	615182.44	
252		423767.98	615182.44	
253		423727.20	615197.44	
254		423604.15	615163.24	
255		423614.78	615134.69	
256		423583.85	615123.17	
257		423568.73	615163.78	
258		423510.77	615147.67	
259		423462.87	615273.79	
260		423299.93	615240.44	
261		423324.15	615175.51	
262		423286.67	615161.53	
263		423260.27	615232.32	
264		423148.86	615209.52	
265		423173.68	615141.27	
266		423139.38	615128.80	
267		423139.38	615128.80	
268		423072.17	615193.82	
269		423055.56	615194.85	
270		423082.18	615123.36	
271		423075.32	615121.87	
272		423075.32	615121.87	
273		422994.17	615179.71	
274		423012.50	615107.90	
275		423002.23	615105.21	
276		422983.69	615177.12	
277		422917.19	615160.72	
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279		422924.20	615087.05	
280		422924.20	615087.05	

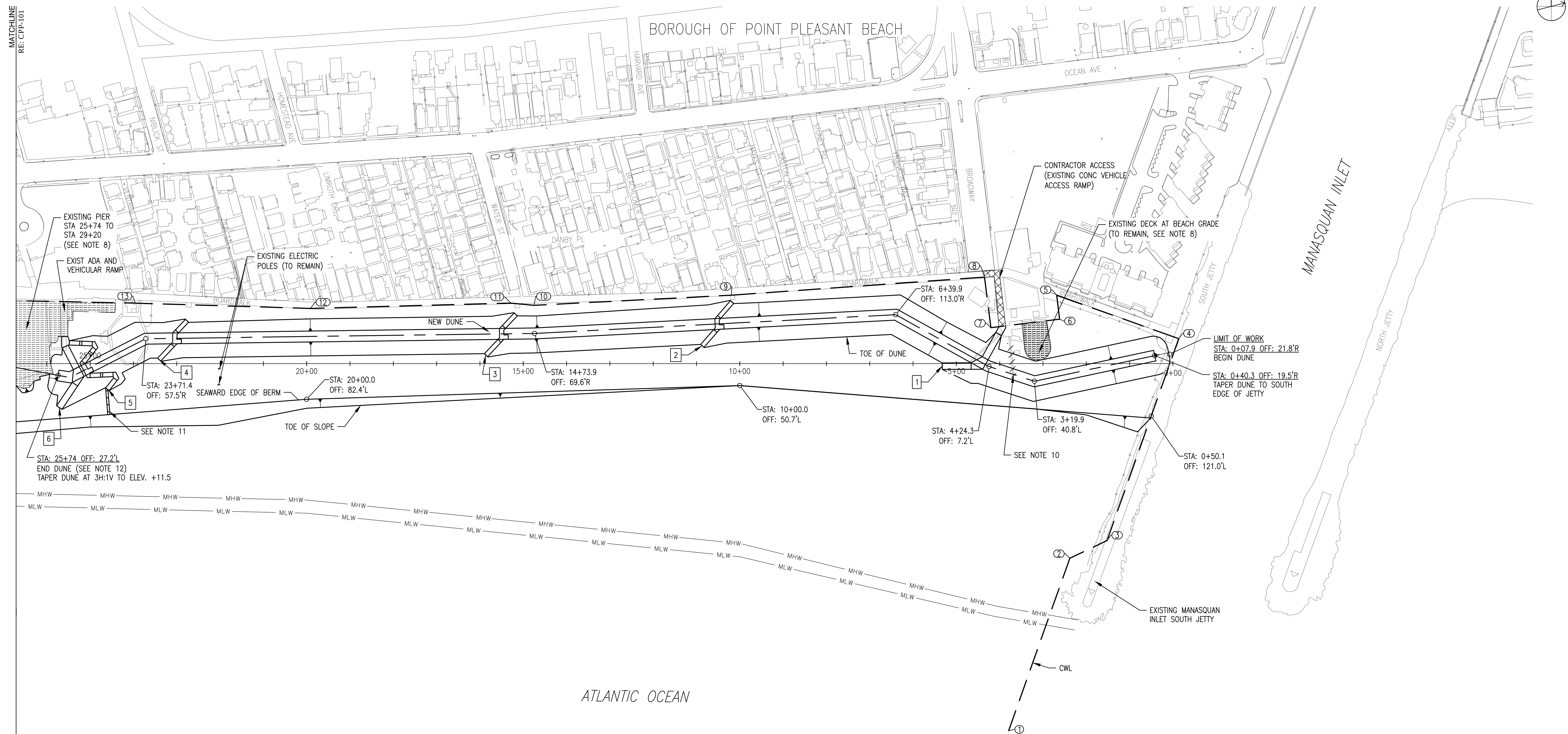
CONTRACTOR	WORK	LIMIT	COORDINATES
POINT NO.	NORTHING	EASTING	
281	422839.13	615141.46	
282	422857.94	615068.47	
283	422847.38	615066.04	
284	422829.05	615138.98	
285	422761.79	615122.39	
286	422780.43	615050.06	
287	422770.23	615047.50	
288	422751.58	615119.87	
289	422682.63	615102.86	
290	422701.36	615030.18	
291	422692.55	615027.97	
292	422674.24	615100.80	
293	422674.24	615100.80	
294	422624.84	615010.52	
295	422614.51	615007.92	
296	422595.58	615081.39	
297	422527.81	615064.67	
298	422546.68	614991.03	
299	422541.31	614989.67	
300	422522.32	615063.32	
301	422479.96	615052.40	
302	422475.66	615068.93	
303	422152.16	614973.62	
304	421199.69	614800.78	
305	421197.45	614812.56	
306	420889.71	614757.53	
307	420695.21	614692.95	
308	420719.53	614585.31	
309	420671.86	614569.47	
310	420651.19	614681.60	
311	420072.65	614573.88	
312	420062.66	614601.32	
313	419711.71	614561.89	
314	419710.31	614574.01	
315	419584.74	614561.03	
316	419597.57	614458.17	
317	419587.63	614457.08	
318	419574.80	614560.00	
319	419457.10	614547.83	
320	419456.05	614557.69	
321	419298.87	614540.98	
322	419309.96	614438.28	
323	419302.89	614437.51	
324	419291.61	614541.91	
325	419192.31	614531.18	
326	419202.19	614447.00	
327	418996.35	614422.84	
328	418998.64	614407.22	
329	418876.90	614384.81	
330	418880.97	614352.01	
331	418839.58	614346.87	
332	418836.92	614367.77	
333	418803.01	614371.21	
334	418736.13	614362.93	
335	418732.90	614369.21	
336	418468.35	614342.63	
337	417984.81	614254.73	
338	417884.27	614241.43	
339	417891.48	614181.59	
340	417822.77	614173.32	
341	417815.63	614232.35	
342	417616.38	614206.00	
343	417625.17	614133.06	
344	417548.34	614123.80	
345	417539.62	614195.85	
346	417340.35	614169.49	
347	417350.83	614082.70	
348	417276.29	614073.72	
349	417265.89	614159.64	
350	417067.60	614133.42	

CONTRACTOR	WORK	LIMIT	COORDINATES	
			POINT NO.	NORTHING
	351	417072.26	614094.90	
	352	417002.65	614086.48	
	353	416997.98	614125.11	
	354	416799.21	614102.86	
	355	416804.19	614061.69	
	356	416730.73	614052.81	
	357	416725.76	614093.90	
	358	416527.24	614069.57	
	359	416532.17	614028.79	
	360	416462.68	614020.39	
	361	416457.77	614061.00	
	362	416259.34	614035.98	
	363	416264.12	613996.42	
	364	416194.62	613988.02	
	365	416189.90	614027.08	
	366	415991.27	614003.75	
	367	415996.68	613959.03	
	368	415927.18	613950.63	
	369	415921.72	613995.77	
	370	415723.16	613971.85	
	371	415728.03	613931.58	
	372	415628.75	613919.58	
	373	415623.91	613959.67	
	374	415425.55	613933.98	
	375	415430.44	613893.54	
	376	415361.14	613883.54	
	377	415356.15	613924.88	
	378	415157.31	613903.21	
	379	415163.49	613852.10	
	380	415094.02	613843.46	
	381	415087.87	613894.42	
	382	414889.40	613869.59	
	383	414894.88	613824.27	
	384	414825.42	613815.64	
	385	414819.90	613861.30	
	386	414621.48	613836.19	
	387	414627.66	613785.08	
	388	414558.19	613776.44	
	389	414551.93	613828.29	
	390	414353.21	613805.53	
	391	414359.60	613752.72	
	392	414290.13	613744.09	
	393	414283.79	613796.56	
	394	414085.30	613772.06	
	395	414089.45	613737.72	
	396	413990.20	613725.75	
	397	413987.87	613750.46	
	398	413968.00	613748.10	
	399	413967.04	613758.21	
	400	413787.39	613736.65	
	401	413792.29	613696.15	
	402	413722.83	613687.52	
	403	413717.92	613728.11	
	404	413519.39	613703.87	
	405	413524.24	613663.74	
	406	413454.78	613655.10	
	407	413449.90	613695.51	
	408	413251.34	613671.48	
	409	413256.40	613629.64	
	410	413186.94	613621.00	
	411	413181.87	613662.94	
	412	412983.34	613638.61	
	413	412988.68	613594.49	
	414	412910.41	613585.03	
	415	412905.08	613629.14	
	416	412708.09	613605.30	
	417	412713.54	613562.87	
	418	412651.91	613554.94	
	419	412646.77	613597.96	
	420	412440.67	613573.34	

CONTRACTOR	WORK	LIMIT	COORDINATES
POINT NO.	NORTHING	EASTING	
421	412447.50	613529.84	
422	412352.78	613518.30	
423	412347.54	613561.70	
424	412147.70	613536.73	
425	412152.51	613497.59	
426	412083.07	613488.70	
427	412078.36	613528.37	
428	411882.58	613504.60	
429	411887.47	613464.78	
430	411818.03	613455.89	
431	411813.27	613496.05	
432	411612.80	613471.28	
433	411617.69	613431.44	
434	411548.25	613422.56	
435	411548.25	613422.56	
436	411543.45	613463.00	
437	411349.25	613399.09	
438	411279.81	613390.21	
439	411274.93	613431.36	
440	411078.08	613406.21	
441	411083.02	613365.93	
442	411013.58	613357.05	
443	411008.67	613398.49	
444	410807.59	613373.21	
445	410810.79	613347.11	
446	410711.85	613332.32	
447	410708.41	613360.38	
448	410515.80	613339.96	
449	410520.78	613299.42	
450	410451.34	613290.53	
451	410451.34	613290.53	
452	410373.79	613324.88	
453	410119.87	613319.74	
454	410143.57	613137.97	
455	410073.93	613130.67	
456	410049.46	613318.28	
457	409948.29	613316.17	
458	409955.68	613252.71	
459	409935.89	613250.40	
460	409932.63	613275.77	
461	409780.38	613257.24	
462	409778.14	613273.46	
463	409752.39	613269.90	
464	409754.50	613253.80	
465	409424.09	613212.67	
466	409423.15	613219.83	
467	409071.94	613175.81	
468	409061.43	613270.49	
469	408563.49	613212.39	
470	408574.29	613126.16	
471	408031.66	613056.22	
472	408026.84	613092.88	
473	407967.66	613085.23	
474	407970.72	613066.04	
475	407573.15	613009.05	
476	407568.83	613035.33	
477	407431.49	613015.68	
478	407442.82	612939.53	
479	407393.32	612932.47	
480	407381.99	613008.60	
481	407335.90	613002.01	
482	407165.77	612979.90	
483	407168.72	612954.82	
484	407150.91	612952.17	
485	407150.91	612952.17	
486	406790.12	612931.09	
487	406626.12	612918.83	
488	406730.92	612022.35	
489	406656.25	612013.26	
490	406623.47	612885.35	

CONTRACTOR	WORK	LIMIT	COORDINATES
POINT NO.	NORTHING	EASTING	
491	406412.55	612259.94	
492	406360.33	612690.00	
493	406260.46	612679.08	
494	406239.35	612850.57	
495	406192.14	612844.07	
496	406186.81	612881.86	
497	405044.36	612720.62	
498	404246.22	612607.29	
499	402576.01	612298.02	
500	401693.15	612143.25	
501	399634.89	611767.52	
502	398584.10	611576.30	
503	397599.85	611396.70	
504	395619.15	611042.71	
505	393944.36	610818.84	
506	393678.06	610785.27	
507	393408.60	610749.30	
508	393415.89	610699.06	
509	393437.52	610701.48	
510	393445.24	610639.62	
511	391847.03	610435.28	
512	391860.64	610332.74	
513	391798.09	610324.66	
514	391784.15	610437.48	
515	391320.16	610378.16	
516	391316.51	610369.53	
517	391247.12	610360.32	
518	391246.04	610368.68	
519	391048.57	610343.43	
520	391028.20	610337.08	
521	391002.62	610333.86	
522	390978.74	610324.27	
523	390882.13	610322.15	
524	390775.50	610308.52	
525	390783.05	610251.07	
526	390759.27	610248.25	
527	390751.95	610305.51	
528	390588.72	610284.64	
529	390595.18	610224.98	
530	389720.70	610113.17	
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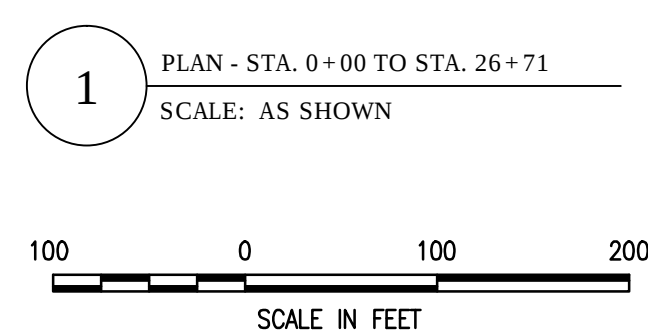
 US Army Corps of Engineers Philadelphia District		SHEET NUMBER C-104	
MANASQUAN INLET TO BARNEGAT INLET OCEAN COUNTY, NEW JERSEY BEACHFILL INITIAL CONSTRUCTION CONTRACTOR WORK LIMIT COORDINATES			
U.S. ARMY CORPS OF ENGINEERS DISTRICT OFFICE PHILADELPHIA, PA 19107-3390 www.usbr.gov/phil		DESIGNED BY: MANASQUAN DISTRICT ADJUSTED BY: MANASQUAN DISTRICT CHECKED BY: PHILADELPHIA DISTRICT DATE: 12/27/01 SOLUTION NUMBER: 972384-4-8-0013 CONTRACT NUMBER: .	
DWG SCALE: .		TOWNSHIP: FILE NAME: 10N 42W 10N 42W	
WORK ACTION DATE BY WORK ACTION		DESCRIPTION DATE BY	
WORK ACTION DATE BY WORK ACTION		DESCRIPTION DATE BY	



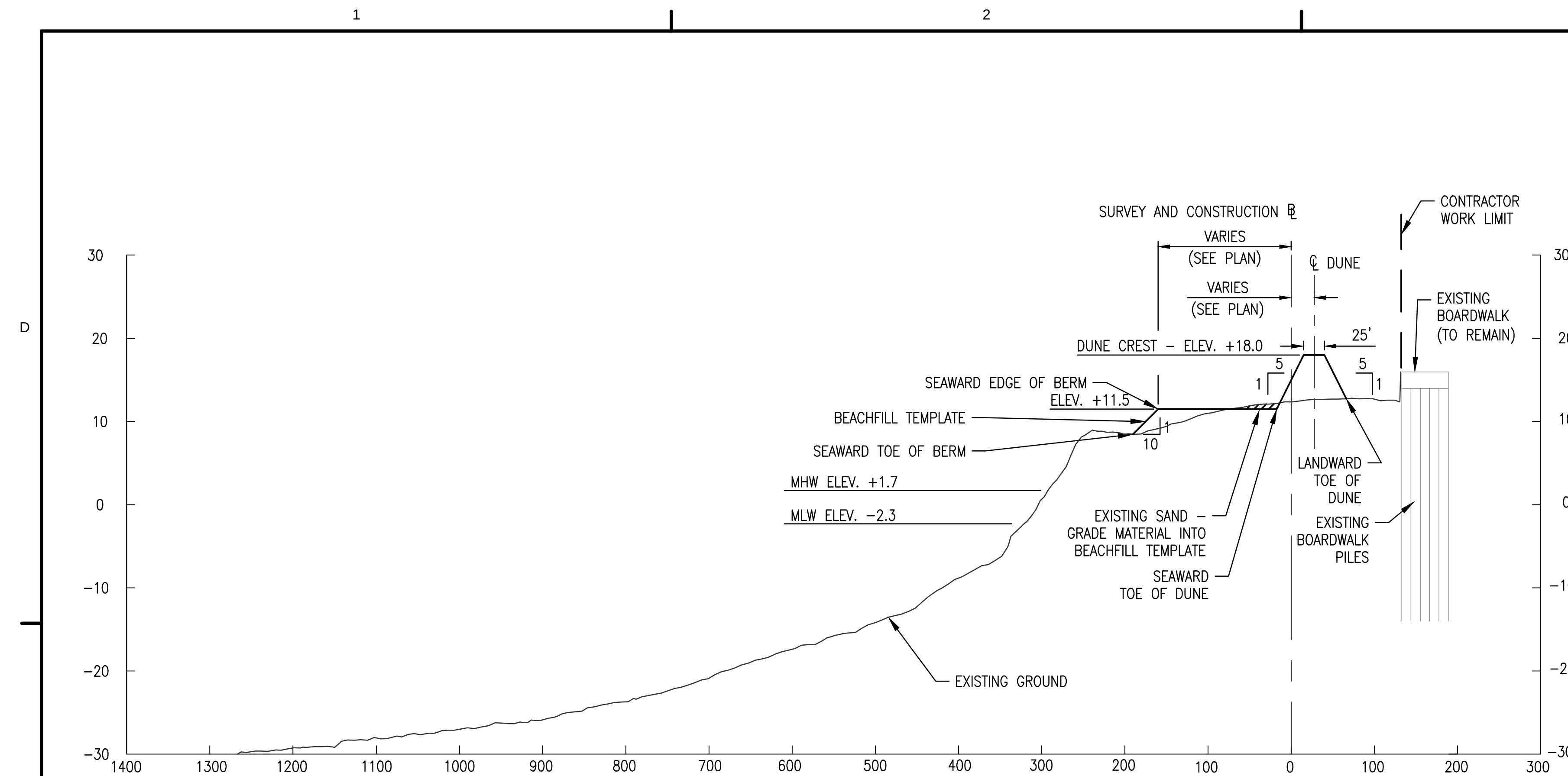
CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	04+40	1/C-404
2	10+52	1/C-402
3	15+50	1/C-402
4	23+04	1/C-402
5	25+10	1/C-405
6	25+26	1/C-405

NOTES:

1. SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
2. SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
3. SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
4. SEE SHEET CPP-200 FOR TYPICAL BEACHFILL SECTIONS, AND SHEETS CPP-300 TO CPP-301 FOR CROSS SECTIONS.
5. SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEETS C-402 TO C-405 FOR PLANS OF CROSSOVERS.
6. SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
7. SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
8. THE EXISTING PIER AND OTHER STRUCTURES ARE NOT AVAILABLE TO USE FOR PROJECT CONSTRUCTION BY THE CONTRACTOR. SEE SPECIFICATIONS. FILL MAY SPILL UNDER PIERS. NO GRADING IS REQUIRED UNDER PIERS EXCEPT AS SHOWN.
9. THE LOAD RATING OF THE EXISTING BOARDWALK IS UNKNOWN AND MAY NOT SUSTAIN THE WEIGHT OF CONSTRUCTION EQUIPMENT.
10. REMOVE EXISTING 88' X 3' ADA COMPLIANT STABILIZATION MAT.
11. CONSTRUCT ADA COMPLIANT STABILIZATION MAT. SEE SHEET C-400 FOR AREA OF MAT. SEE SPECIFICATIONS FOR REQUIREMENTS.
12. FOR CONTOUR GRADING PLAN SEE SHEET CPP-400.

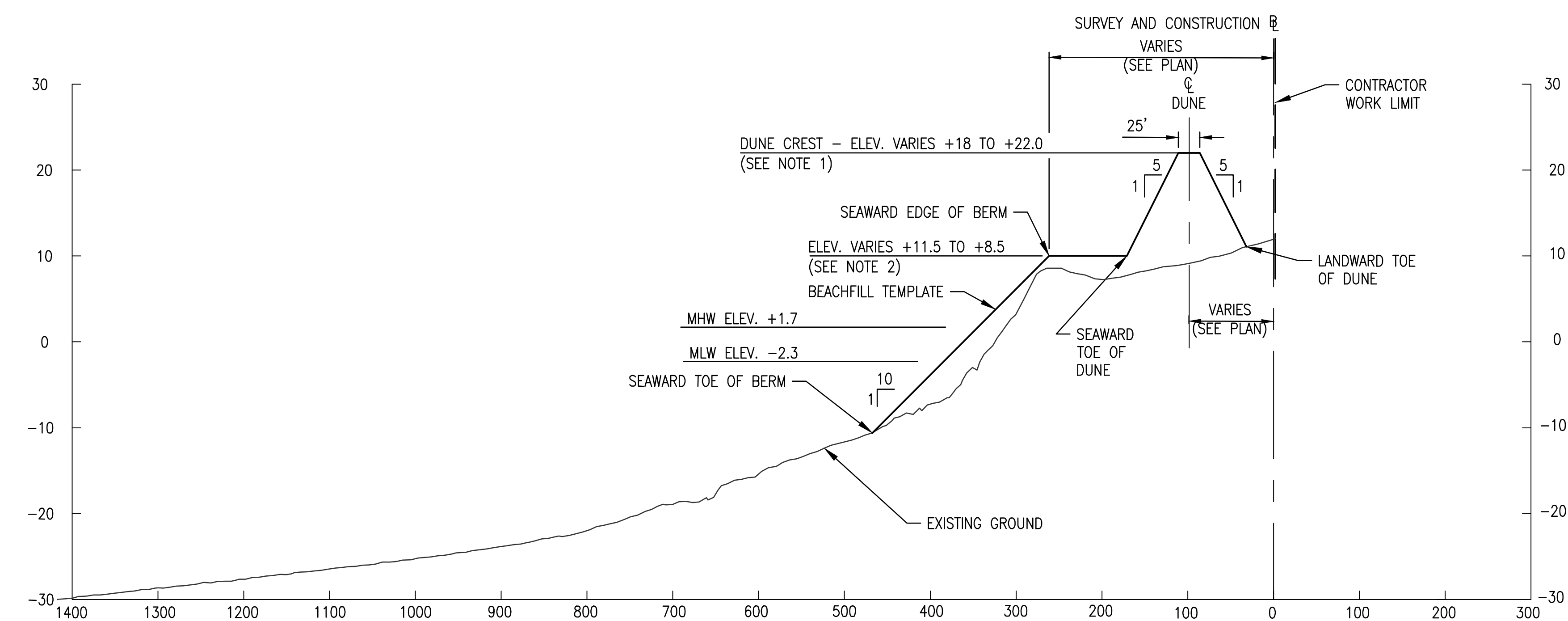
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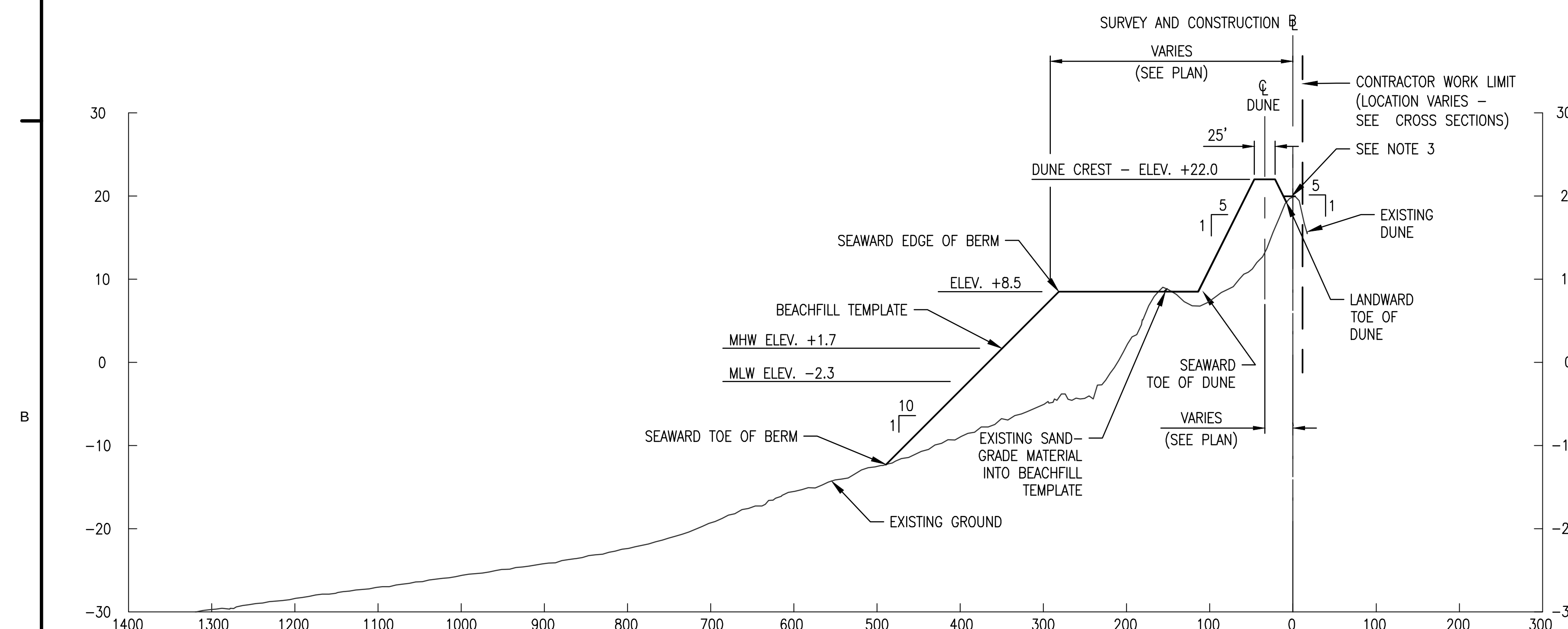
1 TYPICAL SECTION - STA. 0+40.3 TO STA. 25+47 - STA. 29+34 TO STA. 50+00
SCALE: AS SHOWN

V 10 0 10 20
H 100 0 100 200
SCALE IN FEET



2 TYPICAL SECTION - STA. 50+00 TO STA. 53+13
SCALE: AS SHOWN

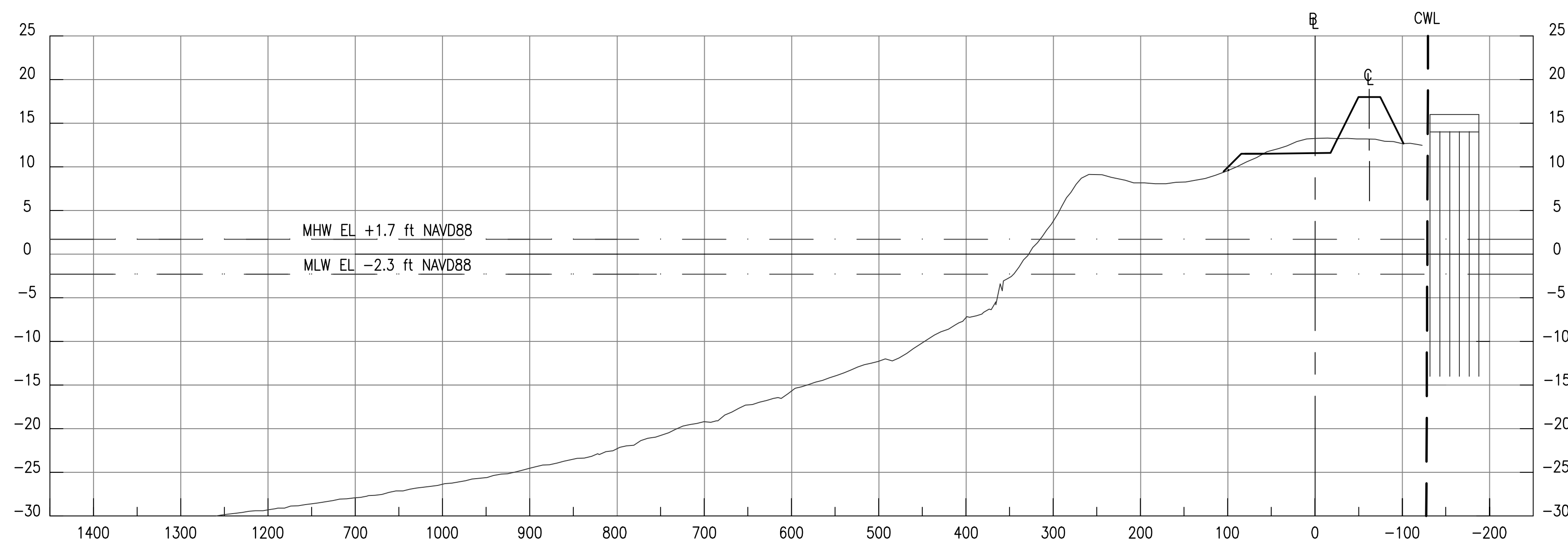
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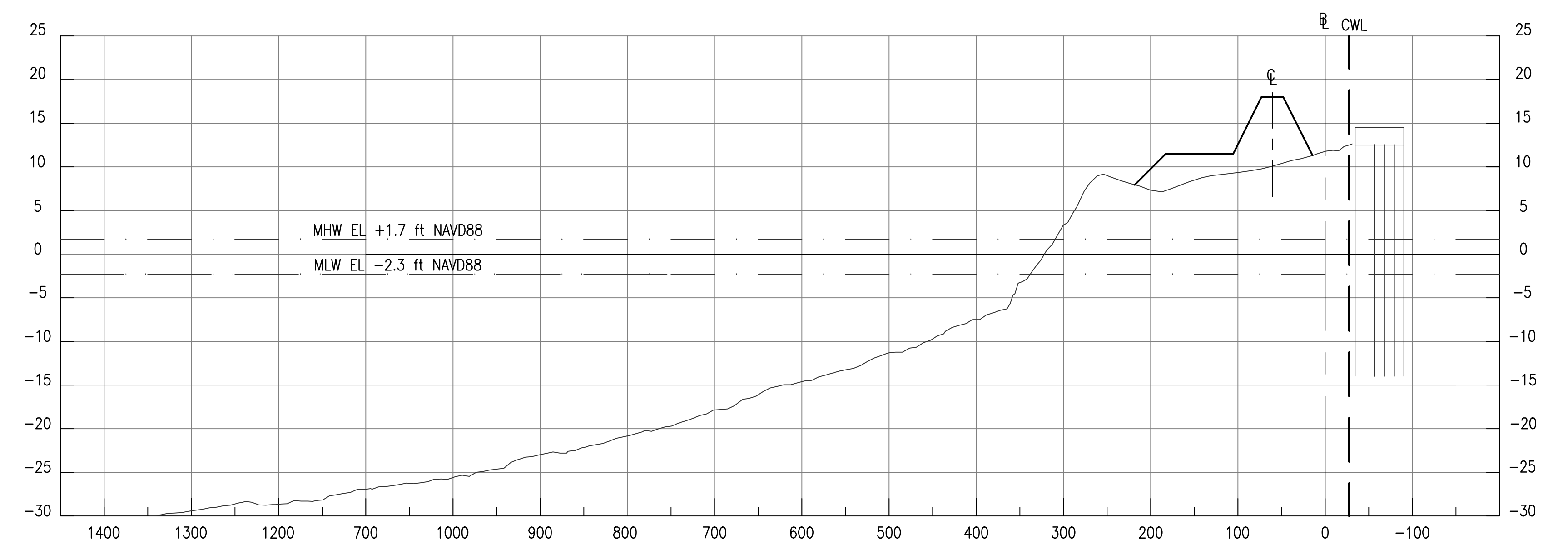
3 TYPICAL SECTION - STA. 53+13 TO STA. 95+50
SCALE: AS SHOWN

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H 100 0 100 200
SCALE IN FEET

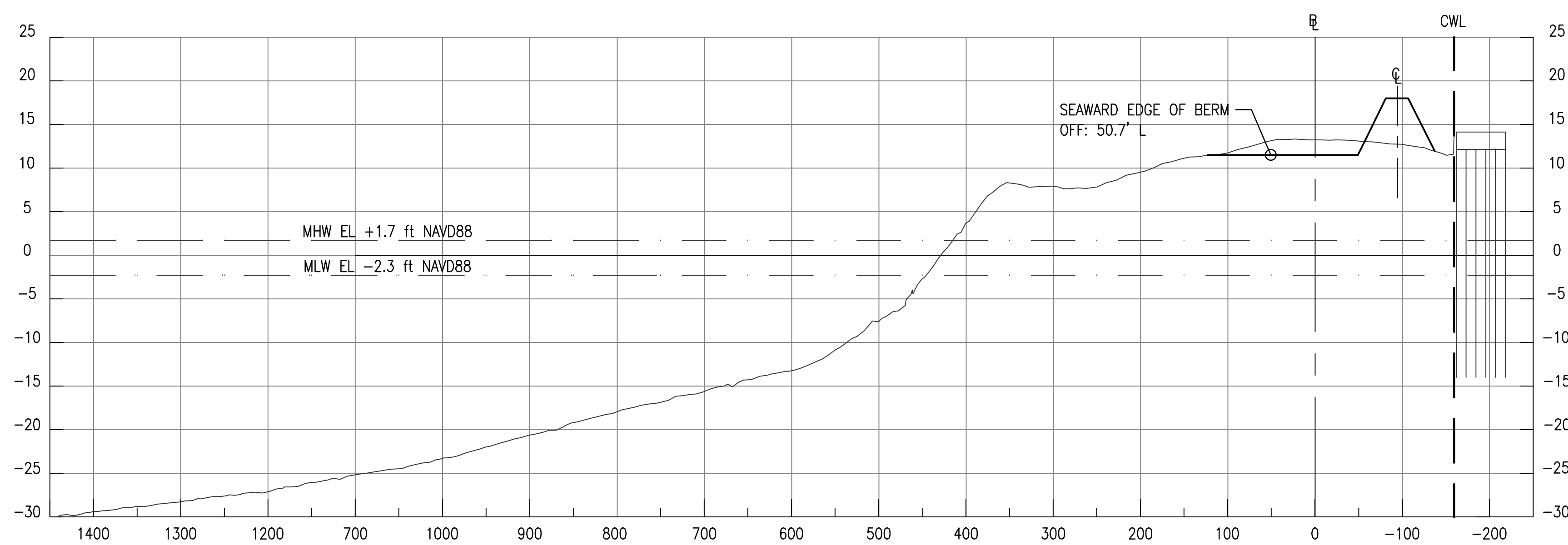
- NOTES:
1. TRANSITION DUNE CREST FROM ELEV. +18.0 AT STA. 50+00 TO ELEV. +22.0 AT STA. 50+20.
 2. TRANSITION BERM FROM ELEV. +11.5 AT STA. 50+00 TO ELEV. +8.5 AT STA. 53+13.3.
 3. PLACE SANDFILL TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
 4. FOR BEACHFILL PLACEMENT AND PAYMENT TOLERANCES, SEE CONTRACT SPECIFICATIONS.



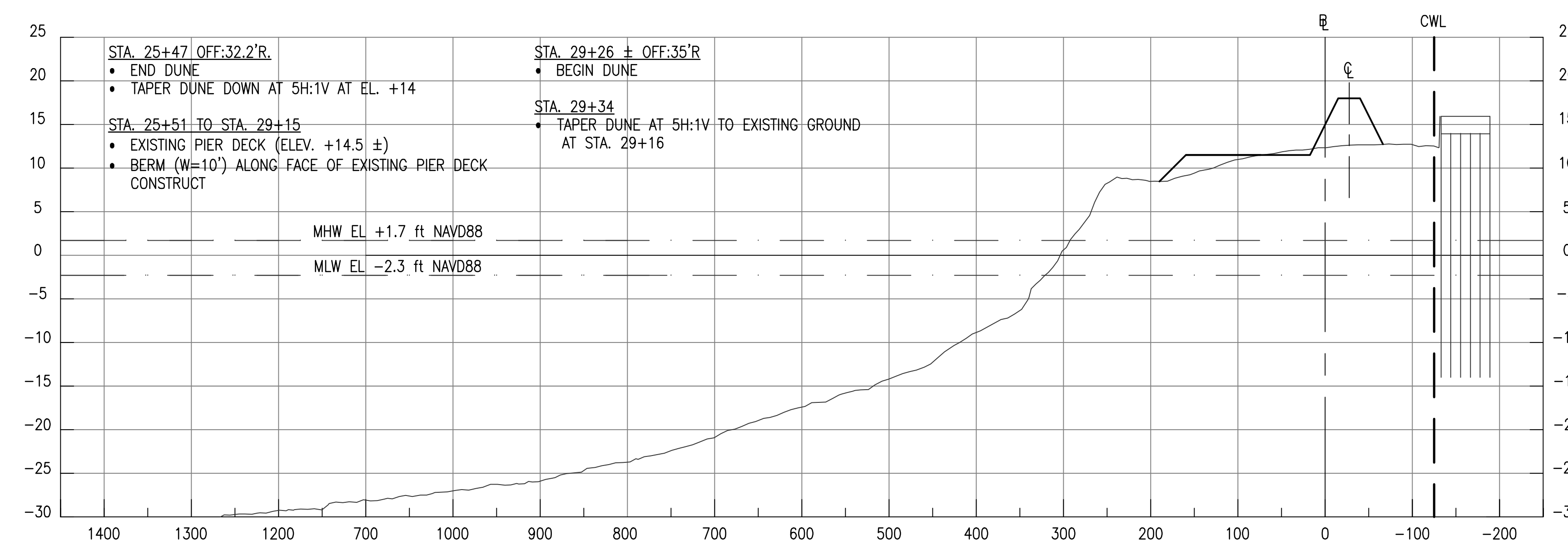
STA. 20+00



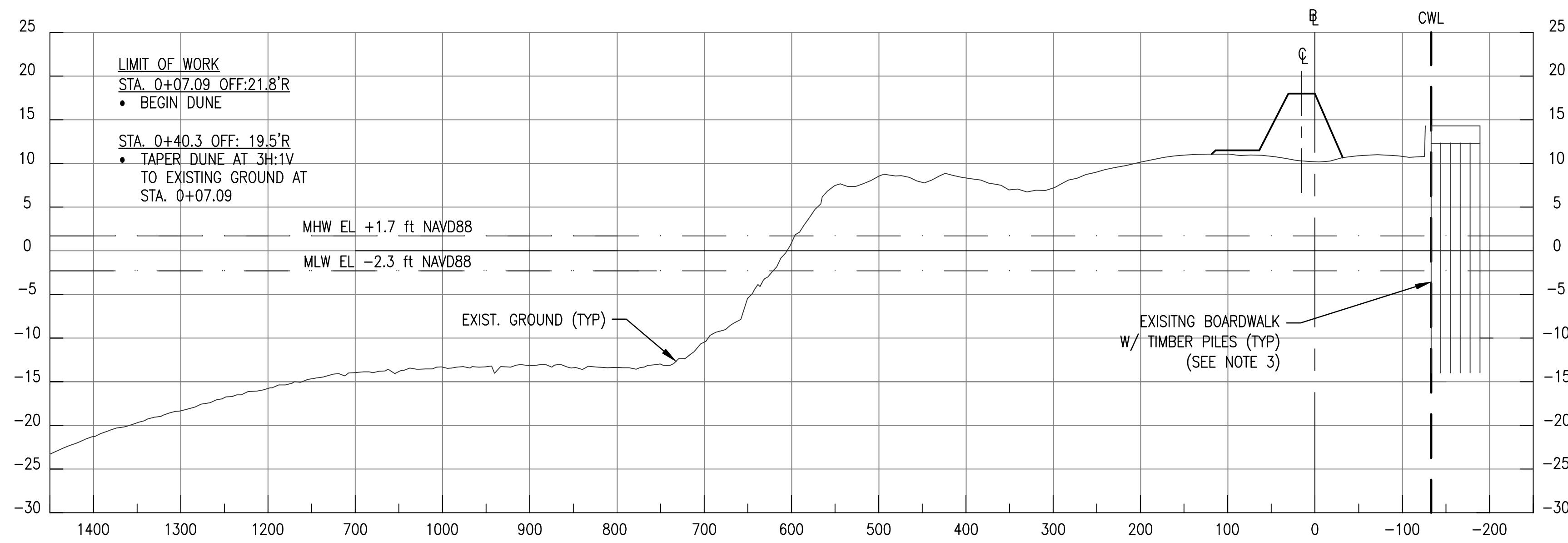
STA. 40+00



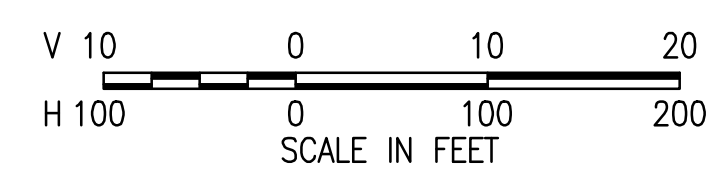
STA. 10+00



STA. 30+00



STA. 2+00

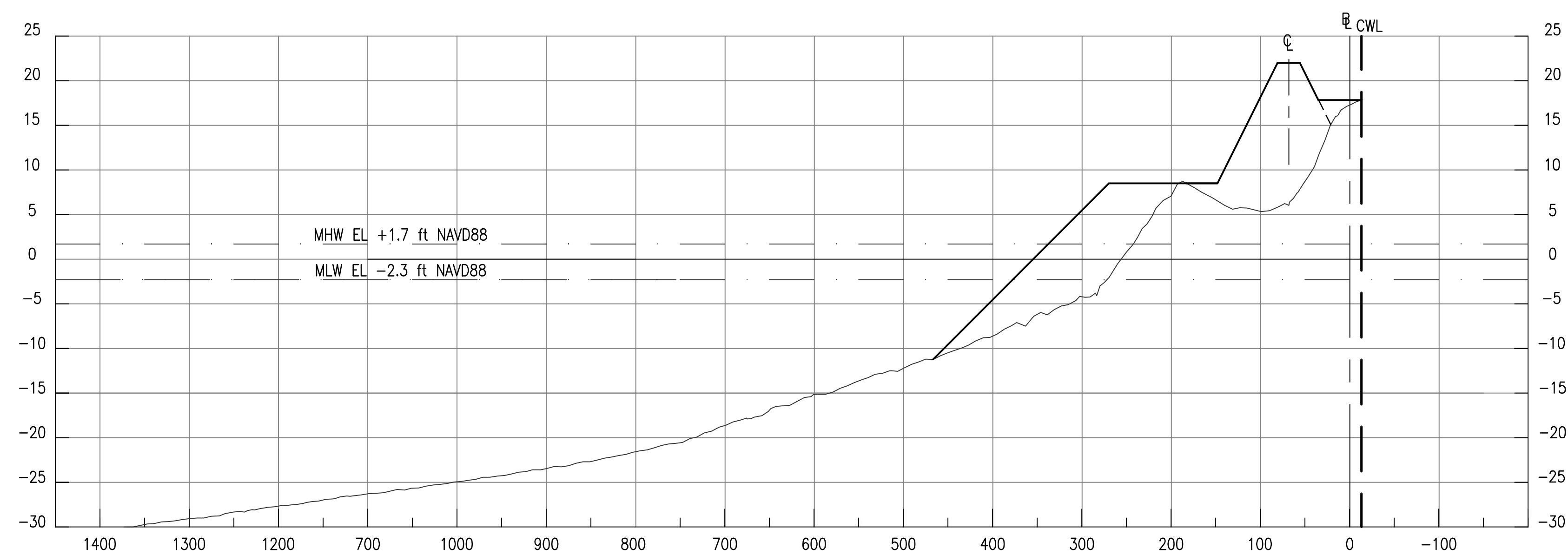


NOTES:

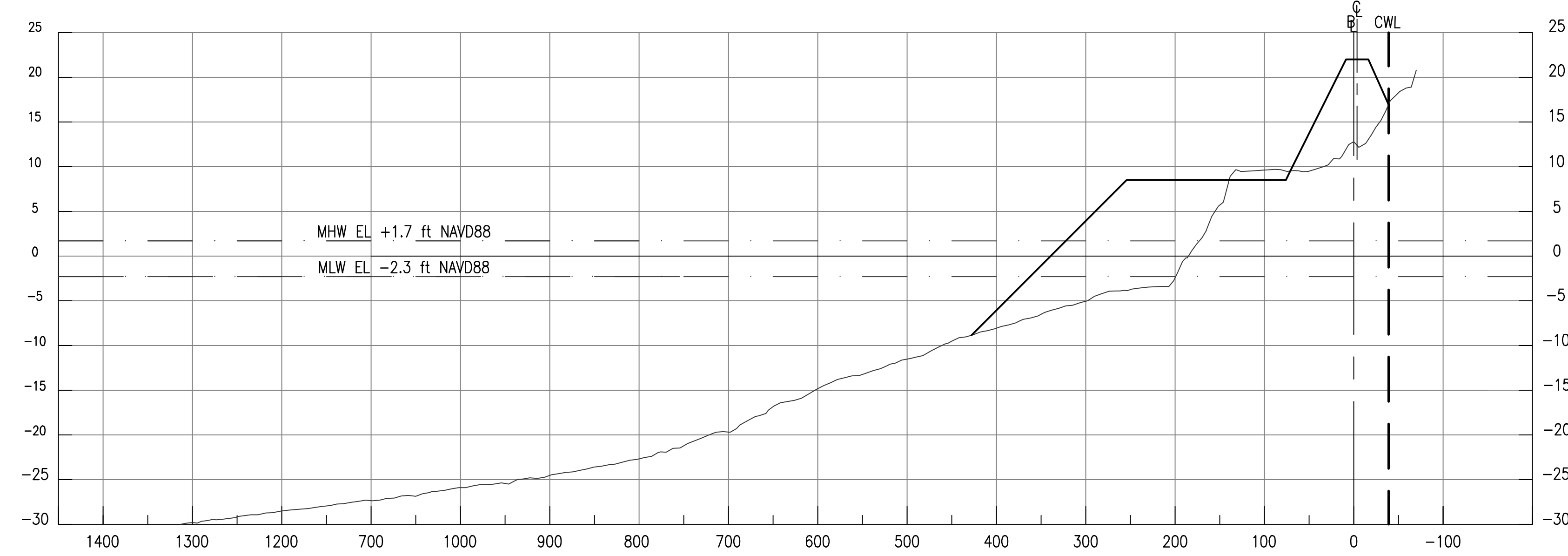
1. CULTURAL EXCLUSION ZONES NOT SHOWN ON CROSS SECTIONS, SEE PLAN SHEET AND SPECIFICATIONS.
2. FOR TYPICAL SECTIONS, SEE SHEET CPP-200.
3. LENGTH OF EXISTING PILES IS UNKNOWN.

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
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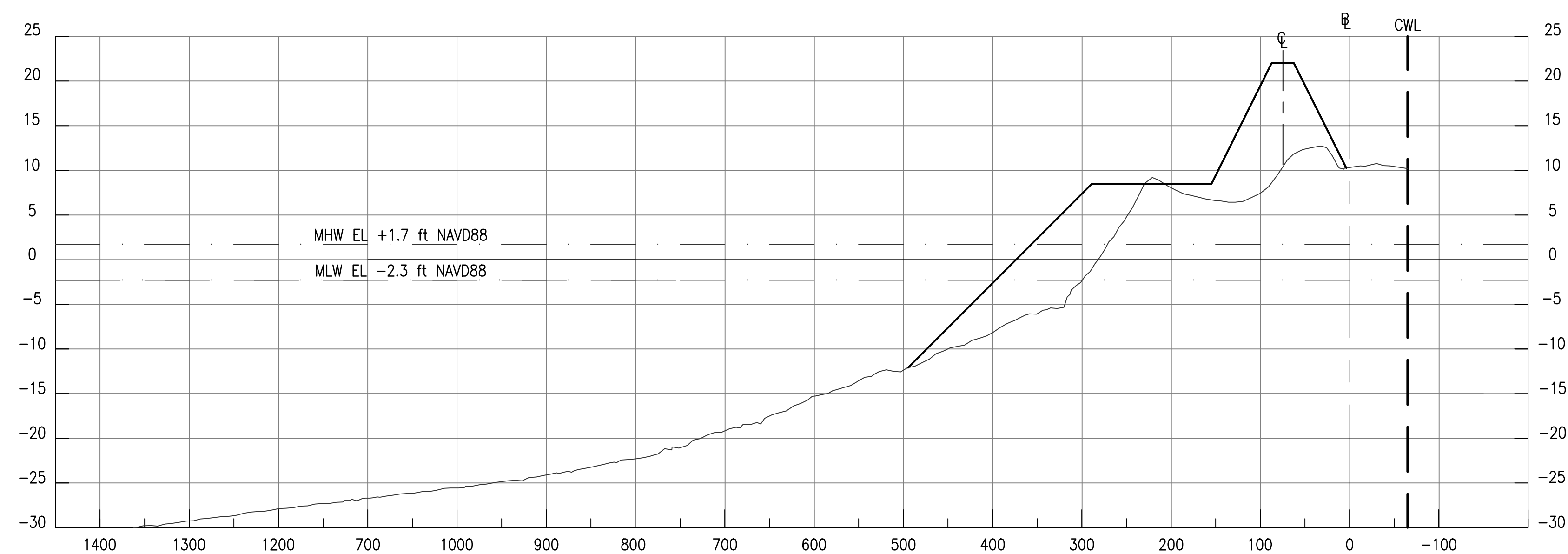
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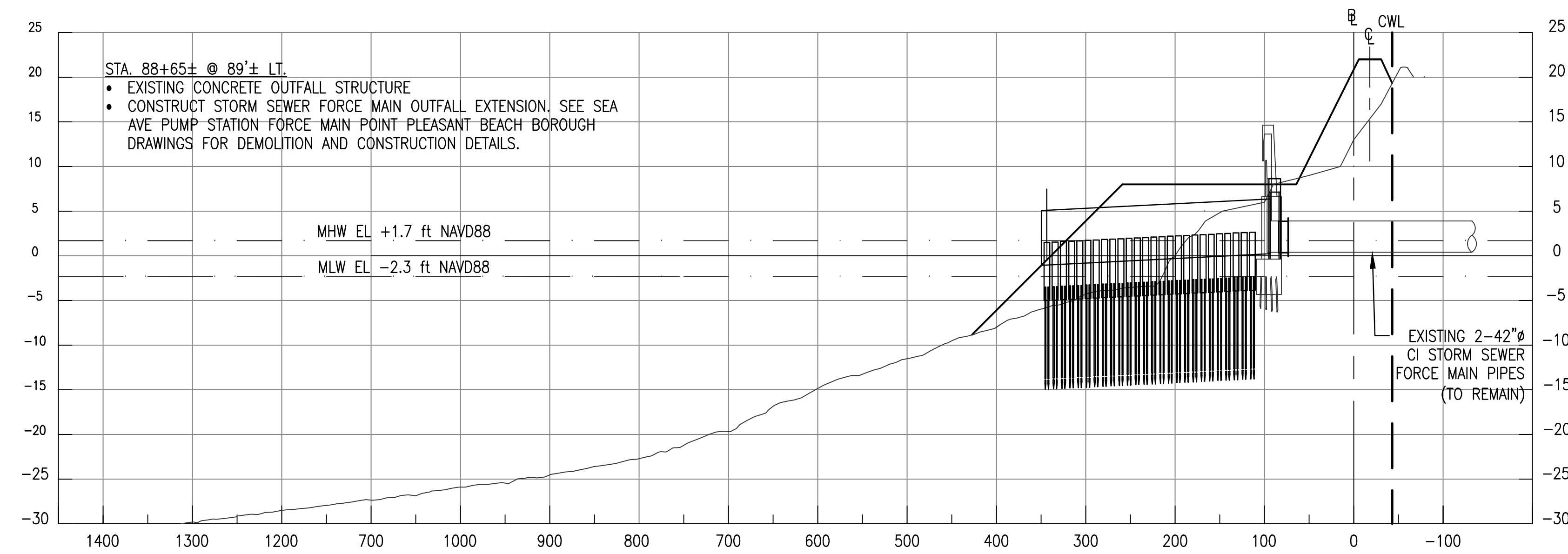
STA. 70+00



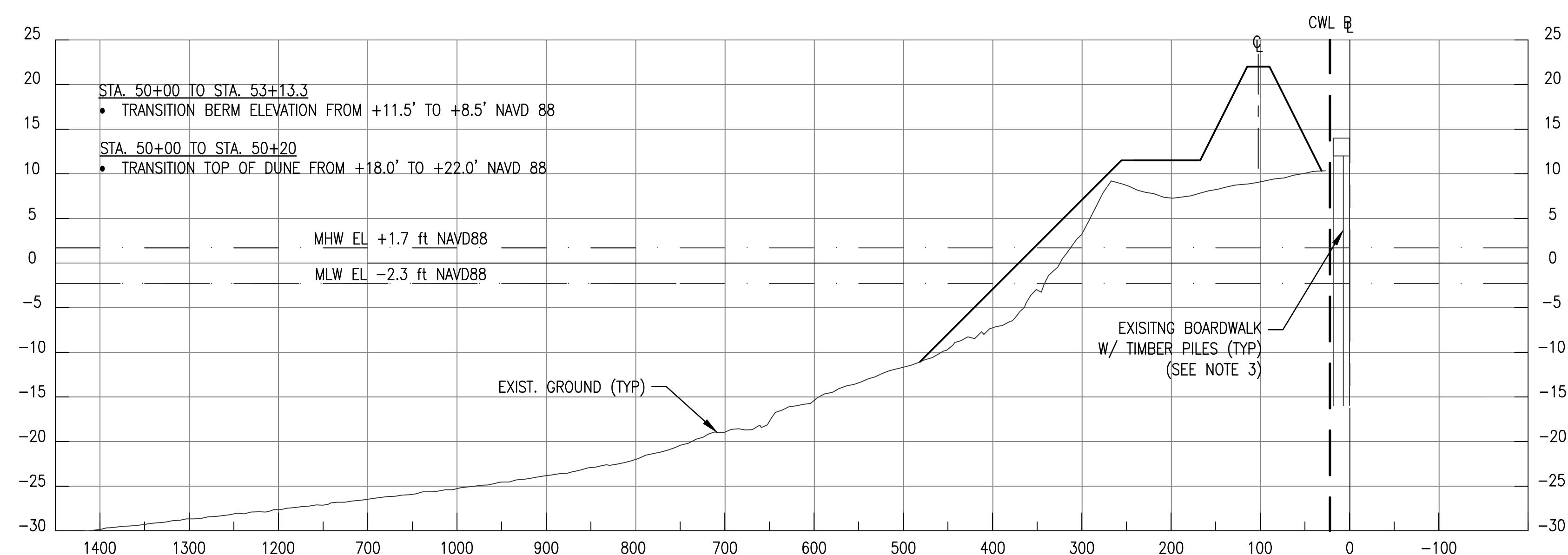
STA. 90 + 00



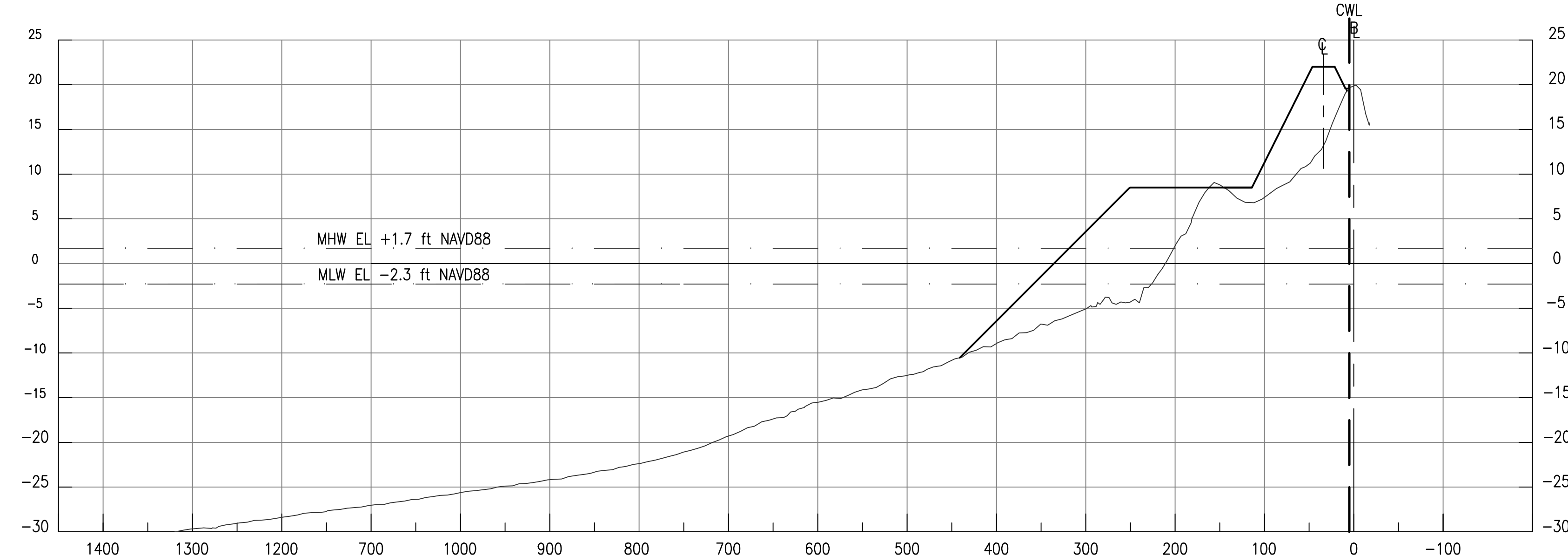
STA. 60+00



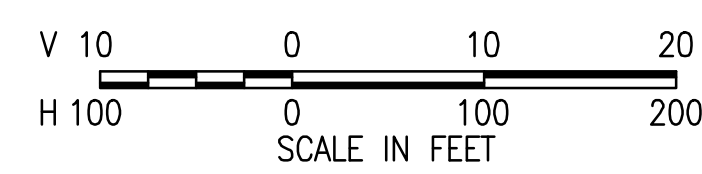
STA. 88+65



STA. 50+00



STA. 80 + 00



NOTES:

1. CULTURAL EXCLUSION ZONES NOT SHOWN ON CROSS SECTIONS, SEE PLAN SHEET AND SPECIFICATIONS.
2. FOR TYPICAL SECTIONS, SEE SHEET CPP-200.
3. LENGTH OF EXISTING PILES IS UNKNOWN.

[illegible]

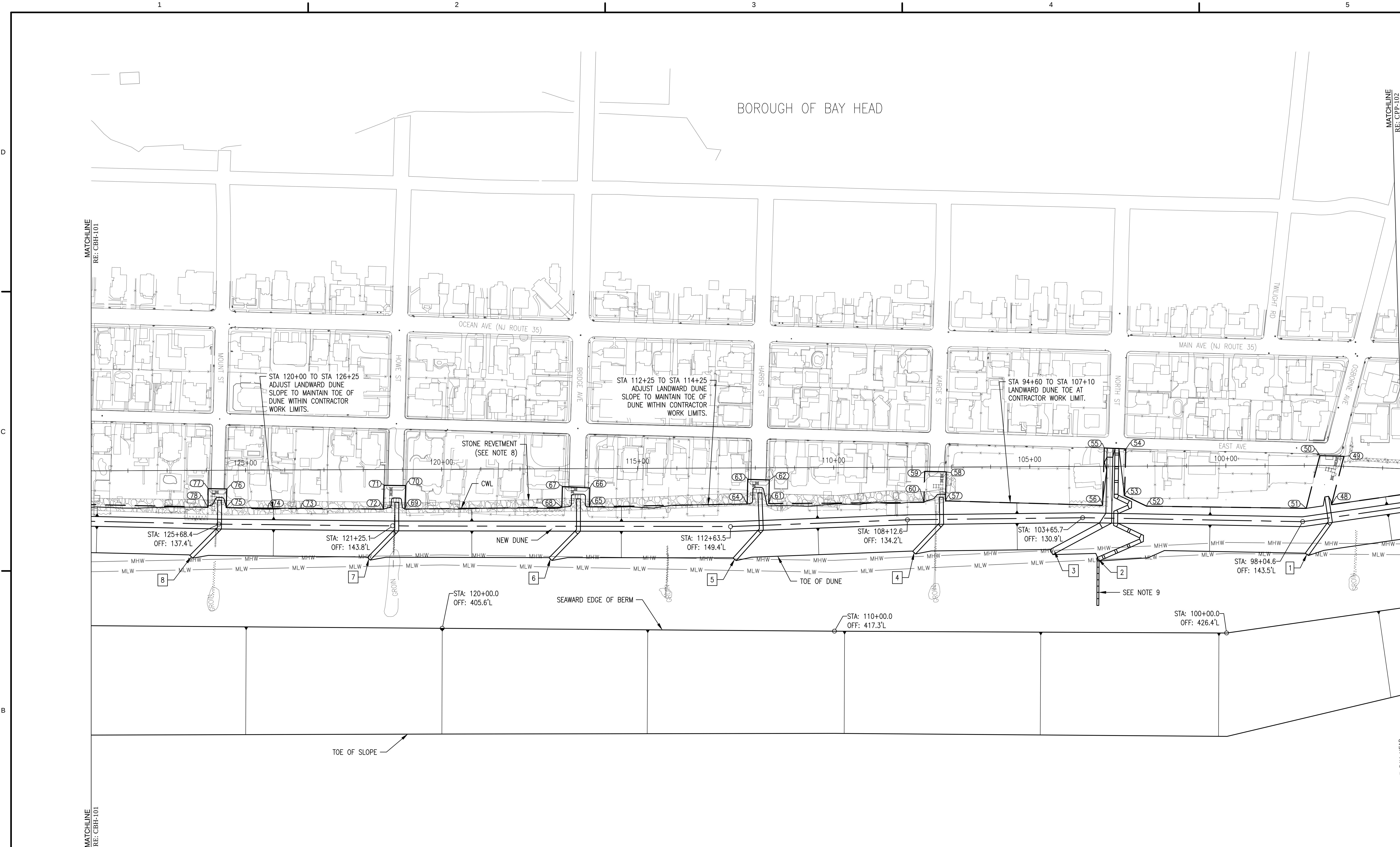
U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT PHILADELPHIA, PA 19107-3380 www.rsg.usdoe.army.mil	OWN BY: P17 RTO BY: DAN	DESIGNED BY: ADD REVIEWED BY: COLTCH	ISSUE/RELEASE DATE: 1980, 10/06/00 1980, 10/06/00
	DWG SCALE: 1" = 100'		PROJECT NUMBER: 36050144-0003
	DWG SIZE: 30"X42" (A1)	FILE NAME: PP-001-0005	CONTRACT NUMBER: STA. 00+00 TO STA. 00+00

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY

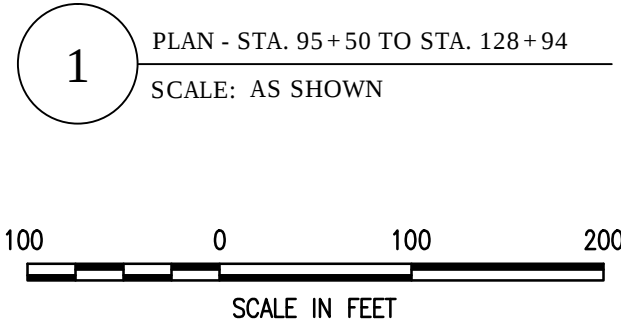
BEACHFILL
INITIAL CONSTRUCTION

CROSS SECTIONS - STA. 50+00 TO STA. 90+00

SHEET NUMBER
CPP-301



CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	97+29	1/C-403
2	102+82	1/C-406
3	102+99	1/C-406
4	107+26	3/C-402
5	111+86	4/C-402
6	116+52	4/C-402
7	121+16	4/C-402
8	125+67	4/C-402



- NOTES:
- SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
 - SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
 - SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
 - SEE SHEET CBH-200 FOR TYPICAL BEACHFILL SECTION, AND SHEETS CBH-300 TO CBH-301 FOR PLANS OF CROSSOVERS.
 - SEE SHEET C-400 TO C-401 FOR DUNE CROSSOVER SCHEDULE AND SHEETS C-402 TO C-406 FOR PLANS OF CROSSOVERS.
 - SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
 - SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
 - THE LIMITS OF THE STONE REVETMENT ARE APPROXIMATE.
 - CONSTRUCT ADA COMPLIANT STABILIZATION MAT. SEE SHEET C-400 FOR AREA OF MAT. SEE DETAIL 1/ C-420 FOR STABILIZATION MAT 5 TO 1-5 TIE IN. SEE SPECIFICATIONS FOR REQUIREMENTS.

DESIGNED BY	ADDED BY	DESIGNED BY	ADDED BY
PHILADELPHIA DISTRICT	PHILADELPHIA DISTRICT	PHILADELPHIA DISTRICT	PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3380	PHILADELPHIA, PA 19107-3380	PHILADELPHIA, PA 19107-3380	PHILADELPHIA, PA 19107-3380
WWW.USACE.DIST.PHILADELPHIA.MIL	WWW.USACE.DIST.PHILADELPHIA.MIL	WWW.USACE.DIST.PHILADELPHIA.MIL	WWW.USACE.DIST.PHILADELPHIA.MIL

MANASQUAN INLET TO BARNEGAT INLET

OCEAN COUNTY, NEW JERSEY

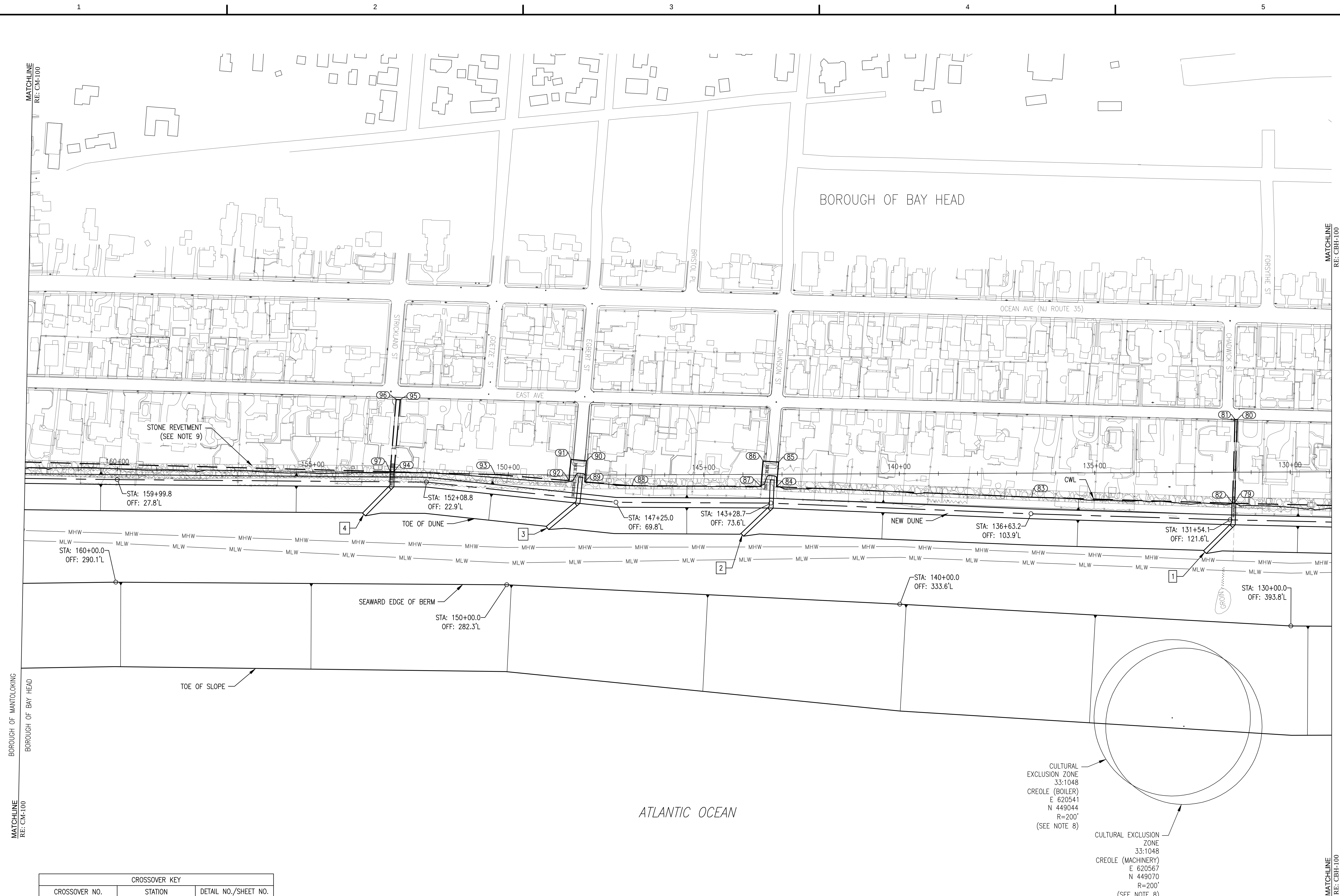
BEACHFILL

INITIAL CONSTRUCTION

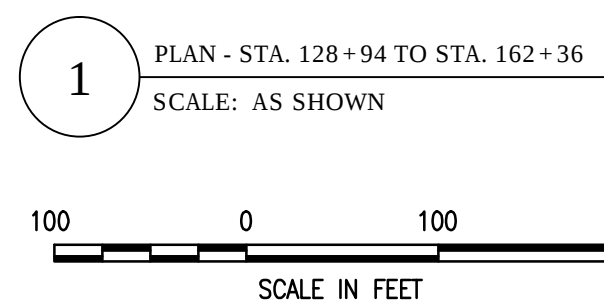
PLAN - STA 94+60 TO STA 125+00

SHEET NUMBER

CBH-100



CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	131+46	5/C-402
2	143+28	4/C-402
3	148+21	4/C-402
4	152+97	5/C-402



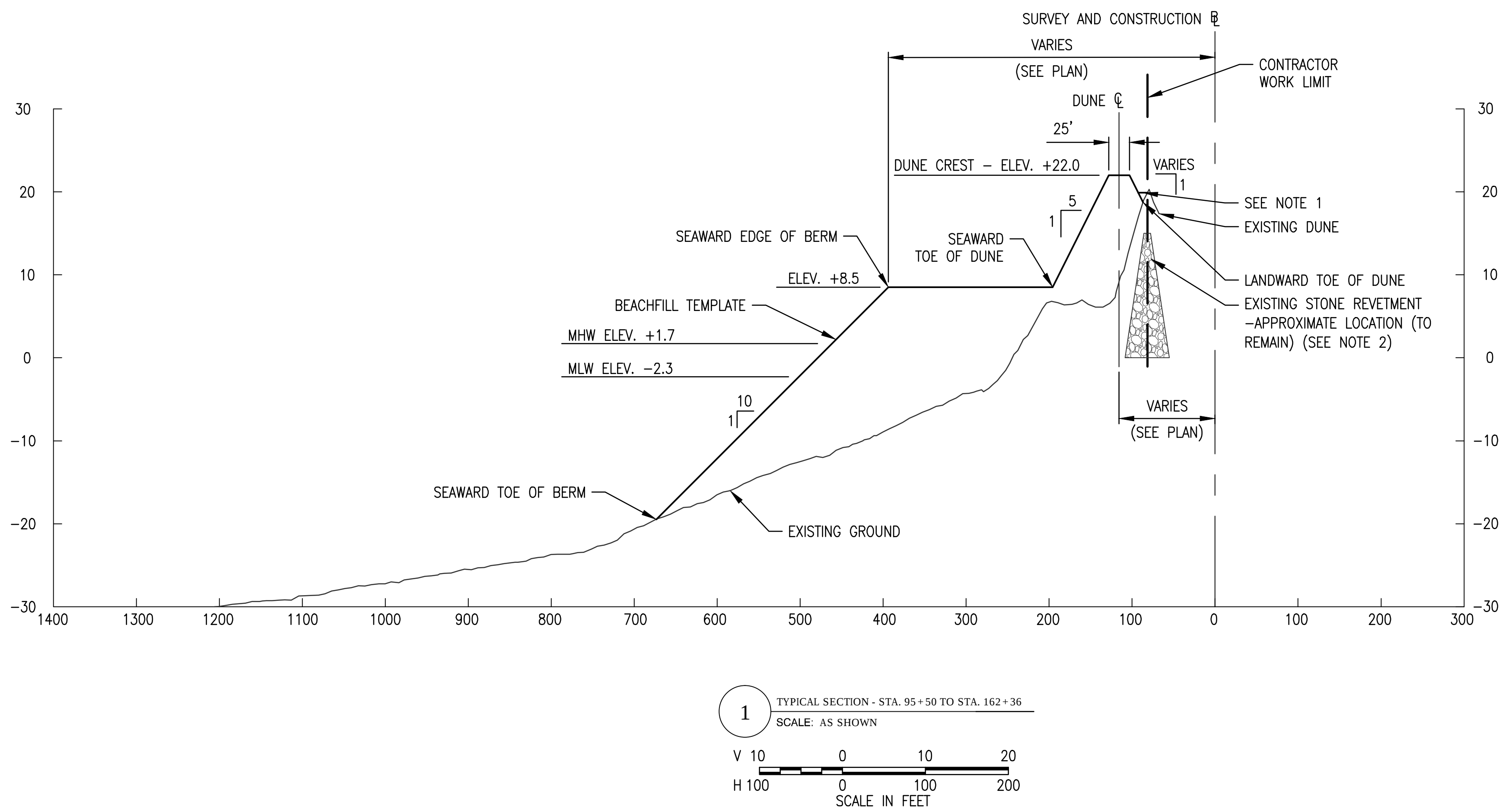
- ### NOTES:
1. SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
 2. SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
 3. SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
 4. SEE SHEET CBH-200 FOR TYPICAL BEACHFILL SECTION, AND SHEETS CBH-300 TO CBH-301 FOR CROSS SECTIONS.
 5. SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEET C-402 FOR PLANS OF CROSOVERS.
 6. SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
 7. SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
 8. NO ANCHORING OR PIPELINE PLACEMENT IS PERMITTED WITHIN ANY CULTURAL EXCLUSION ZONES. ONLY PLACEMENT OF BEACHFILL IS PERMITTED. SEE SPECIFICATIONS FOR RESTRICTIONS.
 9. THE LIMITS OF THE STONE REVETMENT ARE APPROXIMATE.

D

C

B

A

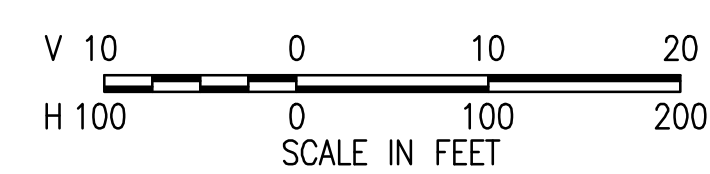
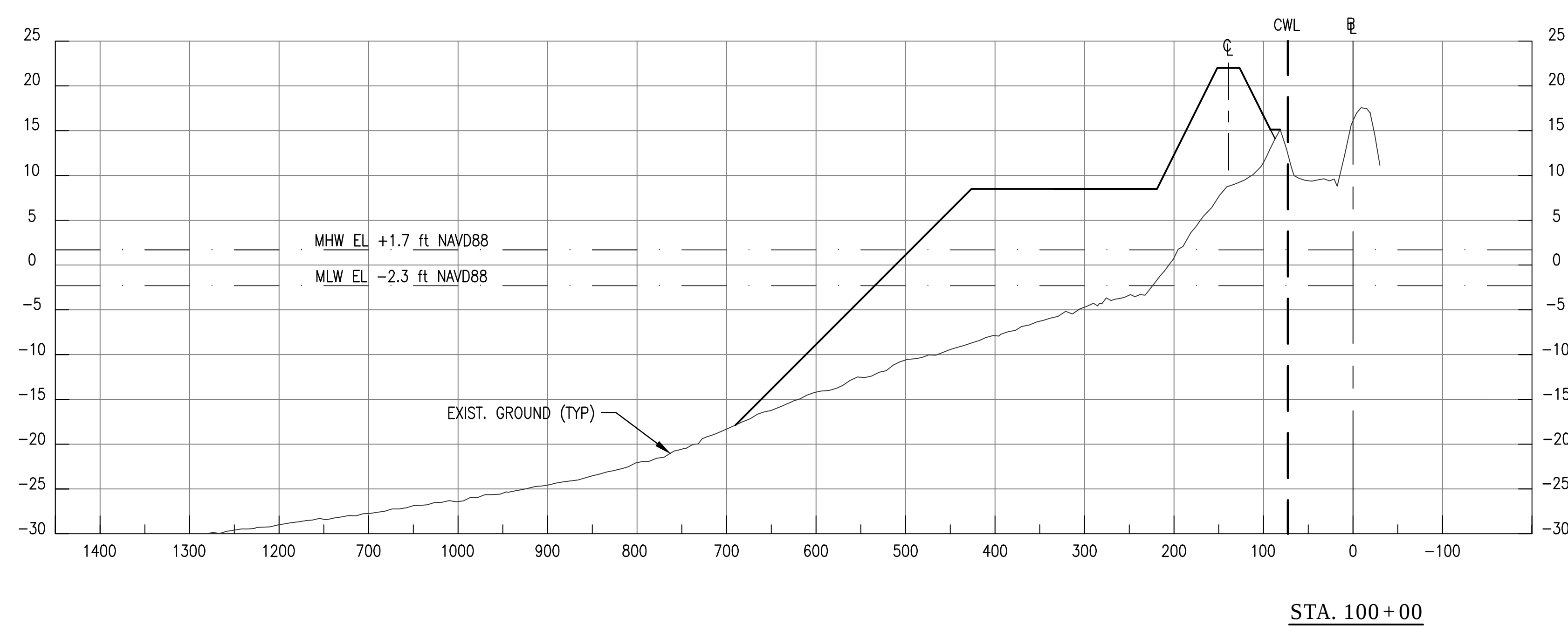
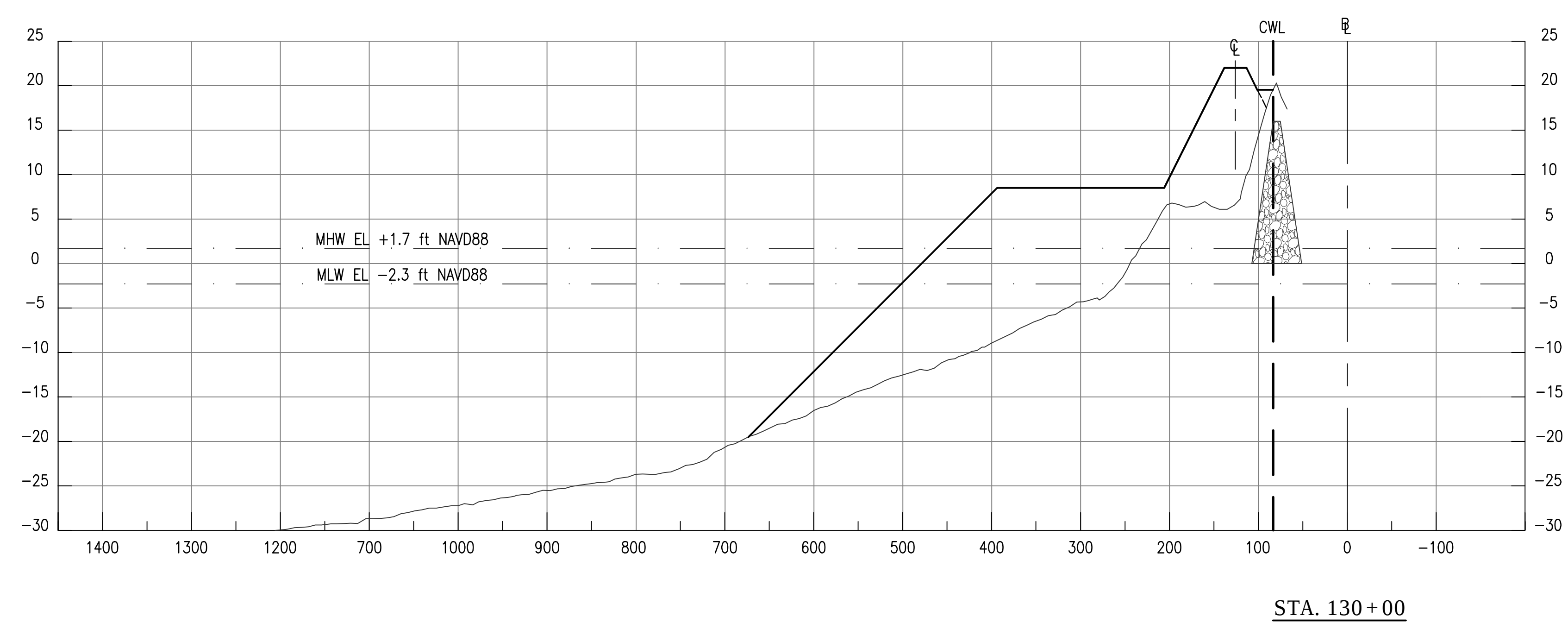
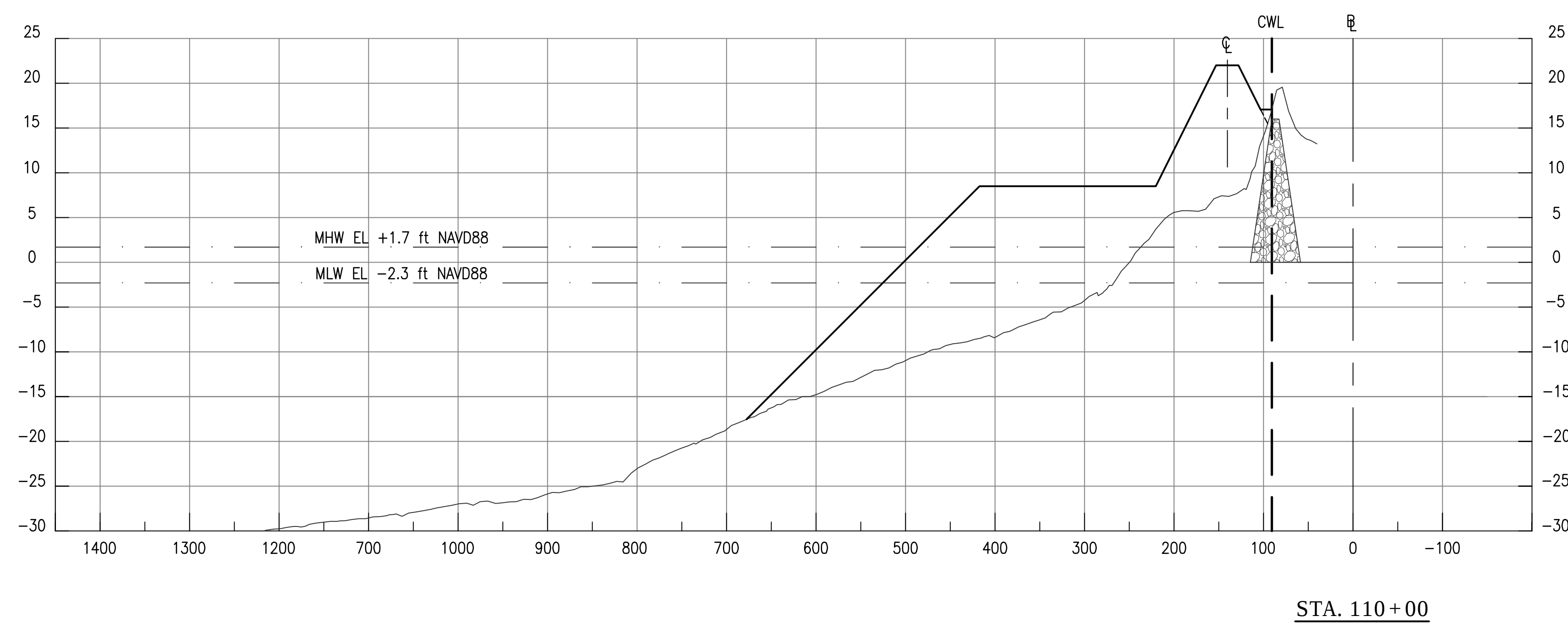
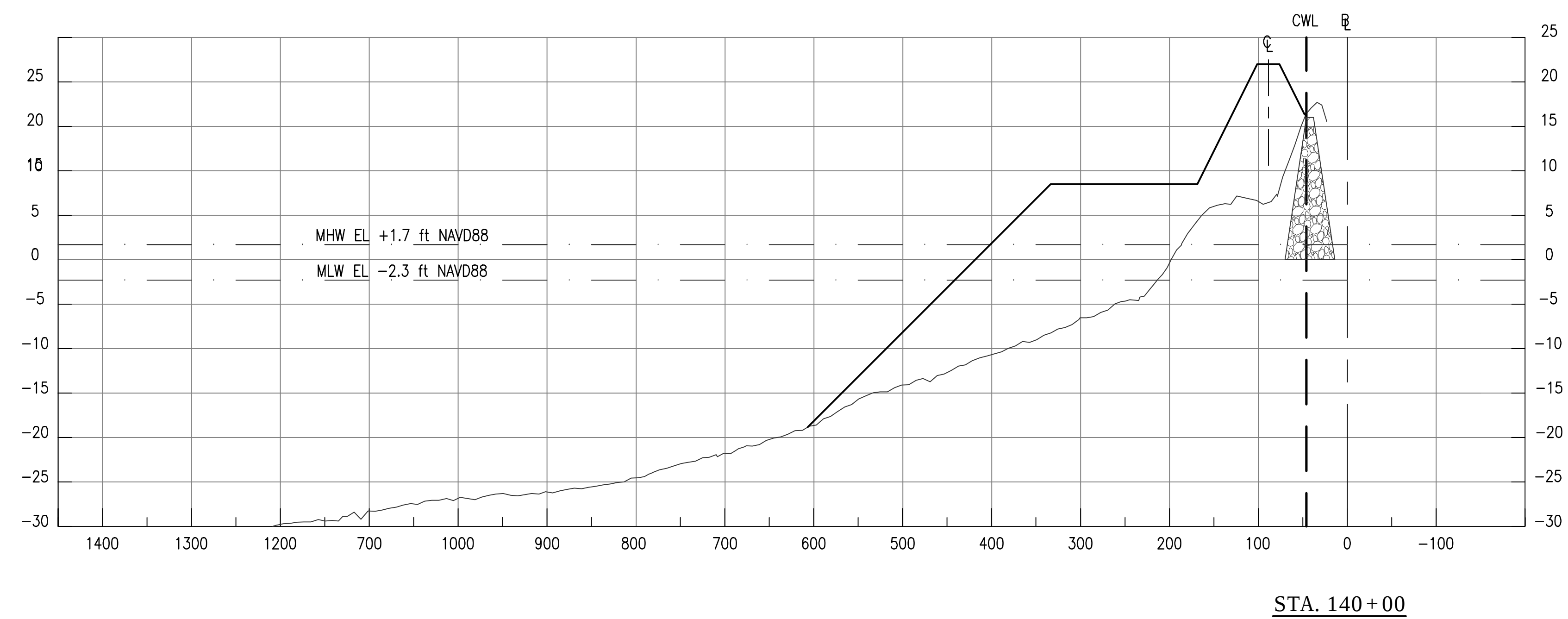
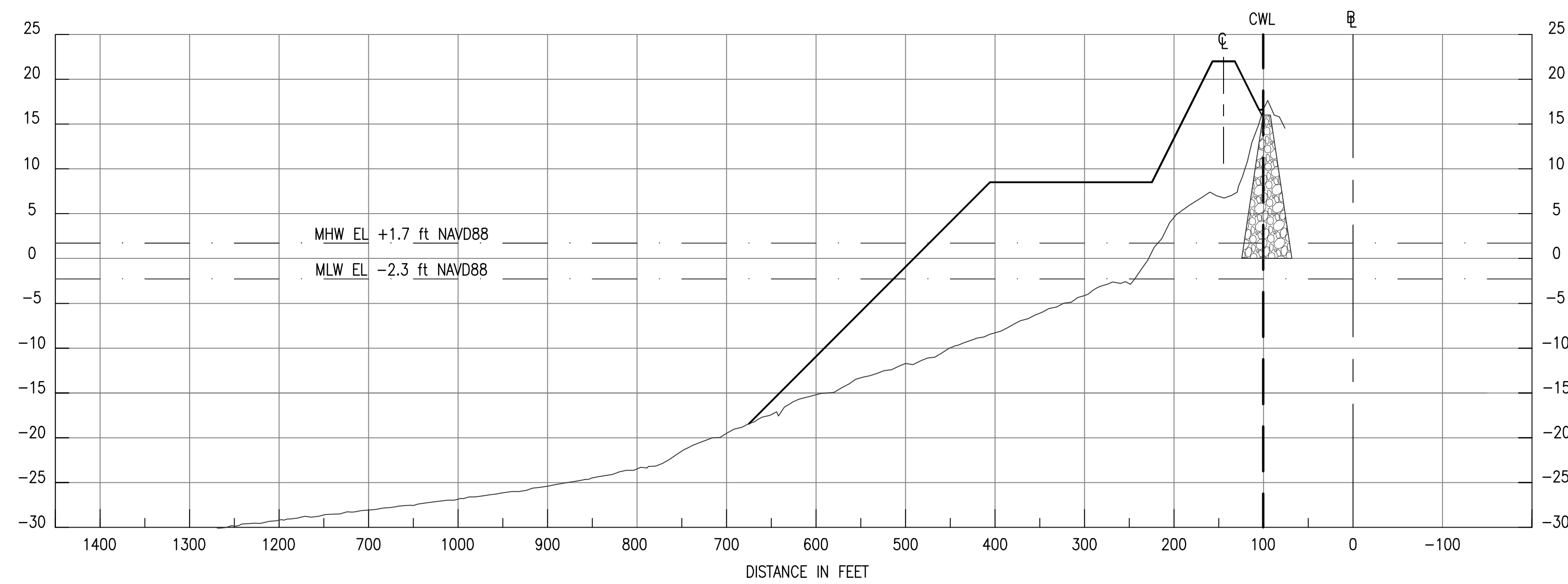


- NOTE:
1. PLACE SANDFILL TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
 2. THE CONTRACTOR SHALL PROTECT THE EXISTING STONE REVETMENT DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE GOVERNMENT.
 3. FOR BEACHFILL PLACEMENT AND PAYMENT TOLERANCES, SEE CONTRACT SPECIFICATIONS.



MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY
BEACHFILL
INITIAL CONSTRUCTION
TYPICAL SECTIONS - BEACHFILL

SHEET NUMBER
CBH-200



NOTES:

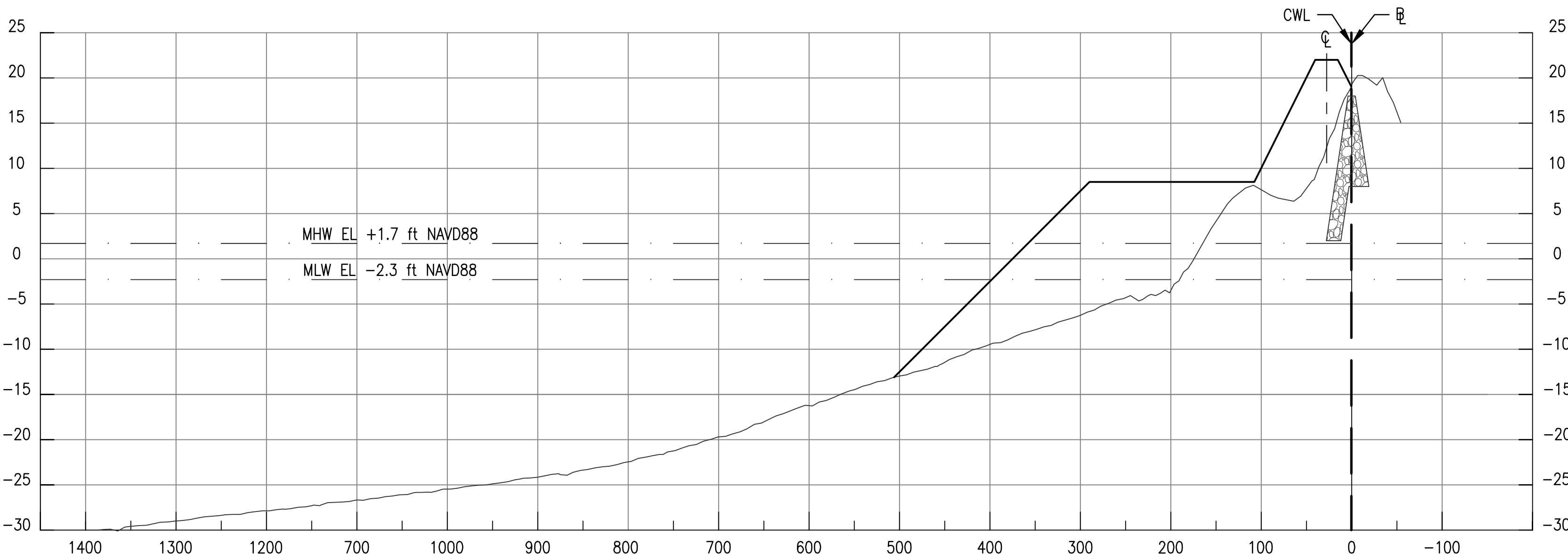
1. CULTURAL EXCLUSION ZONES NOT SHOWN ON CROSS SECTIONS, SEE PLAN SHEET AND SPECIFICATIONS.
2. FOR TYPICAL SECTIONS, SEE SHEET CBH-200.
3. EXISTING STONE REVETMENT LOCATION AND ELEVATION ARE APPROXIMATE.

D

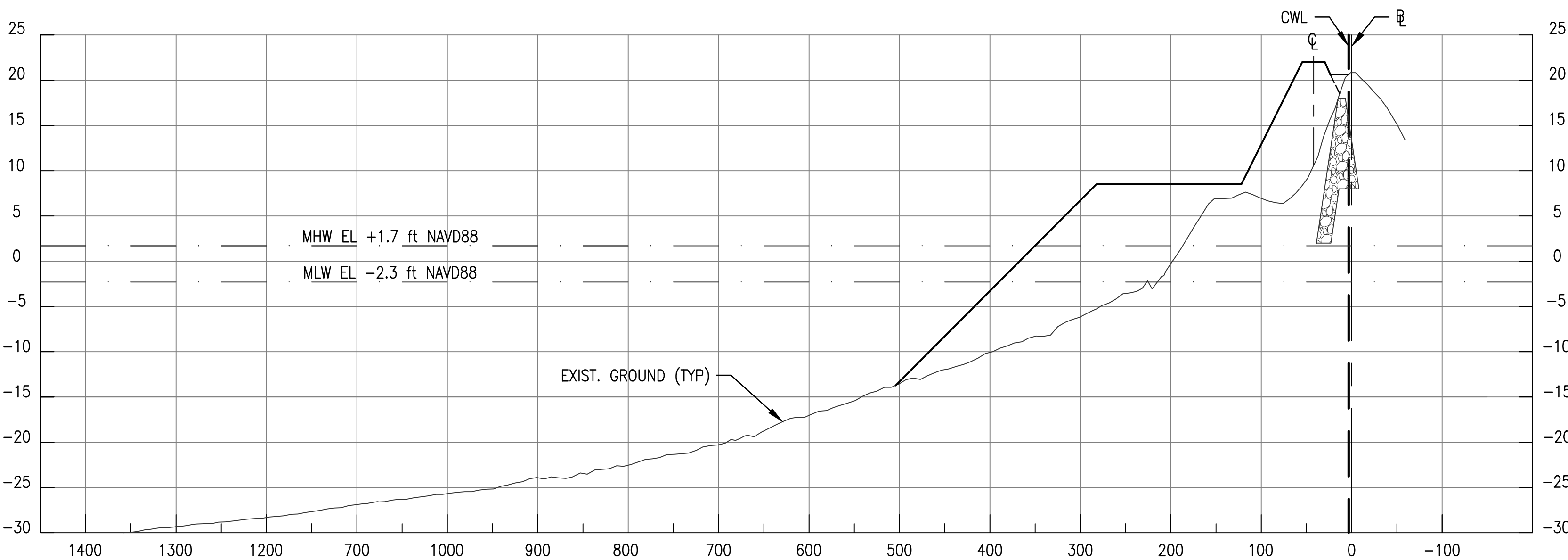
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B

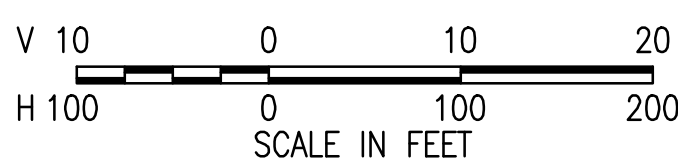
A



STA. 160+00



STA. 150+00



NOTES:

1. CULTURAL EXCLUSION ZONES NOT SHOWN ON CROSS SECTIONS, SEE PLAN SHEET AND SPECIFICATIONS.
2. FOR TYPICAL SECTIONS, SEE SHEET CBH-200.
3. EXISTING STONE REVETMENT LOCATION AND ELEVATION ARE APPROXIMATE.



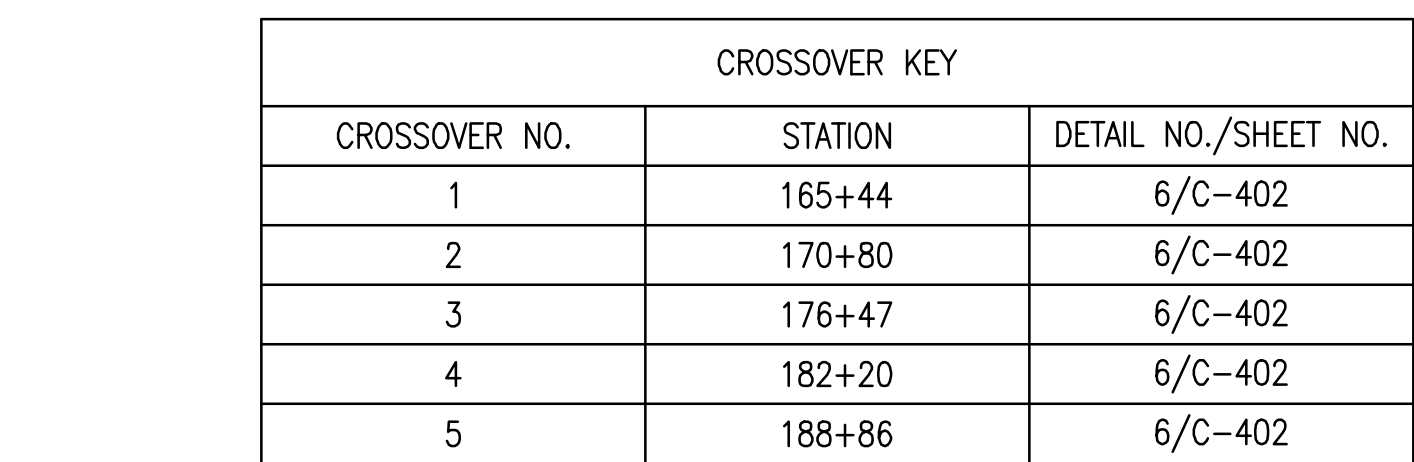
US Army Corps
of Engineers
Philadelphia District

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3380
www.usace.army.mil

DESIGNED BY: JSM/RELEASE DATE:
DRAWN BY: JSM/BACKCHECK DATE:
CHECKED BY: JSM/NO. NUMBER:
DESIGNED BY: JSM/NO. NUMBER:
DRAWN BY: JSM/NO. NUMBER:
CHECKED BY: JSM/NO. NUMBER:

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY
BEACHFILL
INITIAL CONSTRUCTION
CROSS SECTIONS - STA. 150+00 TO STA. 160+00

SHEET NUMBER
CBH-301

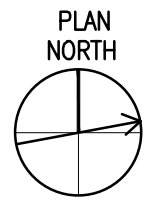


CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	165+44	6/C-402
2	170+80	6/C-402
3	176+47	6/C-402
4	182+20	6/C-402
5	188+86	6/C-402

1 PLAN - STA. 162+36 TO STA. 191+03
SCALE: AS SHOWN

100 0 100 200
SCALE IN FEET

- ### NOTES:
1. SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
 2. SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
 3. SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
 4. SEE SHEET CM-200 FOR TYPICAL BEACHFILL SECTIONS, AND SHEETS CM-300 TO CM-301 FOR CROSS SECTIONS.
 5. SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEETS C-402 TO C-404 FOR PLANS OF CROSSOVERS.
 6. SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
 7. SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
 8. PLACE SANDFILL OR GRADE TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
 9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING SHEETPILE WALL OR STONE REVETMENT THAT OCCURS DURING THE BEACHFILL CONSTRUCTION AT NO EXPENSE TO THE GOVERNMENT. EXISTING SHEETPILE WALL IS LOCATED BETWEEN STA. 187+76± TO STA. 371+35±.
 10. THE LIMITS OF THE STONE REVETMENT ARE APPROXIMATE.
 11. EXISTING STONE REVETMENT MAY BE PARTIALLY OR COMPLETELY COVERED WITH SAND.

[illegible]

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT PHILADELPHIA, PA 19107-3380	www.nspc.army.mil	ISSUE/RELEASE DATE: 100% RFA BACKCHECK 10 FEB	
		PROJ. NUMBER:	
OWN BY: ADN CRO BY: DAN	DESIGNED BY: ADN REVIEWED BY: CRO	SOLICITATION NUMBER W12BLH48-0013	
		CONTRACT NUMBER:	
		DWG SCALE: 1=100'	FILE NAME: 30K4Z AC1E1 1361022mg

UNASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY

BEACHFILL
INITIAL CONSTRUCTION

PLAN - STA. 162+36 TO STA. 191+03

SHEET NUMBER
CM-100

1

2

3

4

5

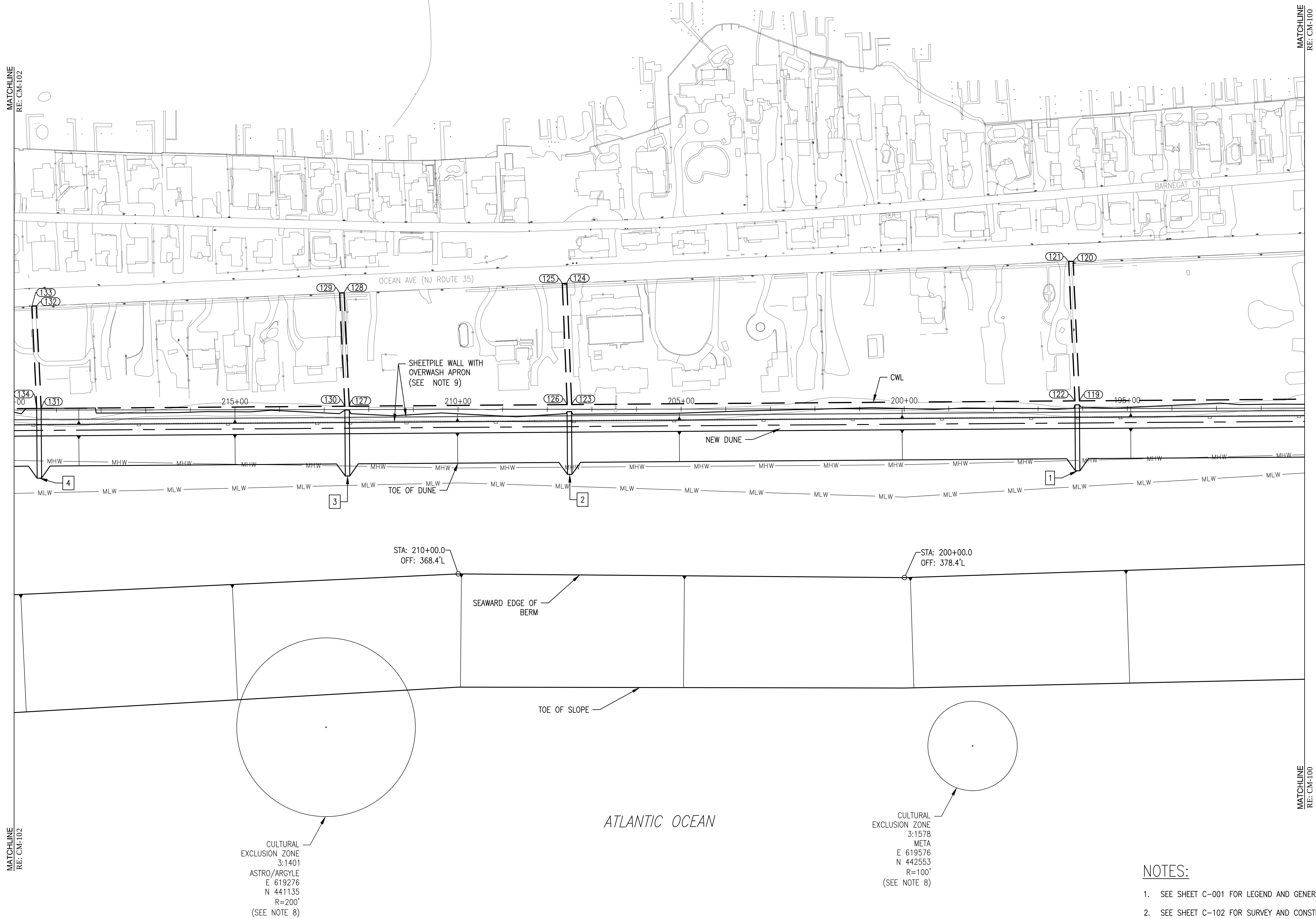
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C

B

A

BOROUGH OF MANTOLOKING



CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	196+12	6/C-402
2	207+50	6/C-402
3	212+48	6/C-402
4	219+39	6/C-402

1 PLAN - STATION 191+03 TO STATION 219+95
SCALE: AS SHOWN



NOTES:

- SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
- SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
- SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
- SEE SHEET CM-200 FOR TYPICAL BEACHFILL SECTIONS, AND SHEETS CM-300 TO CM-301 FOR CROSS SECTIONS.
- SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEET C-402 FOR PLANS OF CROSSOVERS.
- SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
- SEE SHEET C-500 THROUGH C-502 FOR BORROW AREA PLANS.
- NO ANCHORING OR PIPELINE PLACEMENT IS PERMITTED WITHIN ANY CULTURAL EXCLUSION ZONES. ONLY PLACEMENT OF BEACHFILL IS PERMITTED. SEE SPECIFICATIONS FOR RESTRICTIONS.
- PLACE SANDFILL OR GRADE TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING SHEETPILE WALL THAT OCCURS DURING THE BEACHFILL CONSTRUCTION AT NO EXPENSE TO THE GOVERNMENT. EXISTING SHEETPILE WALL IS LOCATED BETWEEN STA. 187+76± TO STA. 371+35±.



DESIGNED BY: DISSEMINATE DATE: 10/01/2010
DRAWN BY: 10/01/2010
CHECKED BY: 10/01/2010
APPROVED BY: 10/01/2010
PROJECT NUMBER: 10/01/2010
SHEET NUMBER: 10/01/2010
CONTRACT NUMBER: 10/01/2010
FILE NAME: 10/01/2010 STA. 191+03 TO STA. 219+95

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY
BEACHFILL
INITIAL CONSTRUCTION
PLAN - STA. 191+03 TO STA. 219+95

SHEET NUMBER
CM-101

MATCHLINE
RE: CM-103

MATCHLINE
RE: CM-101

MATCHLINE
RE: CM-101

MATCHLINE
RE: CM-103

CULTURAL
EXCLUSION ZONE
3-1047
E 619070
N 438077
R=100'
(SEE NOTE 8)

CROSSOVER KEY		
CROSSOVER NO.	STATION	DETAIL NO./SHEET NO.
1	229+12	6/C-402
2	239+87	2/C-406

1 PLAN - STA. 219+95 TO STA. 249+87
SCALE: AS SHOWN

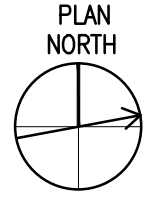
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SCALE IN FEET

BOROUGH OF MANTOLOKING

ATLANTIC OCEAN

NOTES:

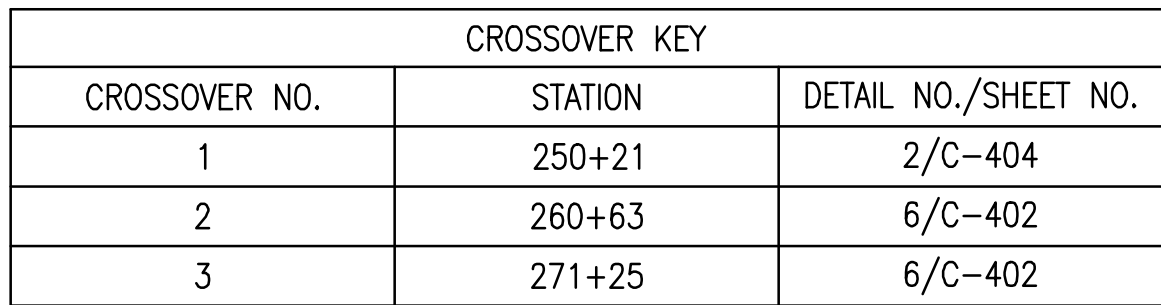
- SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
- SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
- SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
- SEE SHEET CM-200 FOR TYPICAL BEACHFILL SECTIONS, AND SHEETS CM-300 TO CM-301 FOR CROSS SECTIONS.
- SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEETS C-402 TO C-406 FOR PLANS OF CROSSOVERS.
- SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
- SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
- NO ANCHORING OR PIPELINE PLACEMENT IS PERMITTED WITHIN ANY CULTURAL EXCLUSION ZONES. ONLY PLACEMENT OF BEACHFILL IS PERMITTED. SEE SPECIFICATIONS FOR RESTRICTIONS.
- PLACE SANDFILL OR GRADE TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING SHEETPILE WALL THAT OCCURS DURING THE BEACHFILL CONSTRUCTION AT NO EXPENSE TO THE GOVERNMENT. EXISTING SHEETPILE WALL IS LOCATED BETWEEN STA. 187+76± TO STA. 371+35±.
- CONSTRUCT ADA COMPLIANT STABILIZATION MAT. SEE REMARKS ON SHEET C-400 FOR AREA OF MAT. SEE DETAIL 1/ C-420 FOR STABILIZATION MAT TO 1-5 TIE IN. SEE SPECIFICATIONS FOR REQUIREMENTS.



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DATE: [blank]
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DATE: [blank]
SCALE: [blank]
DWS: [blank]
DWS SIZE: [blank]
FILE NAME: [blank]

MANASQUAN INLET TO BARNEGAT INLET
OCEAN COUNTY, NEW JERSEY
BEACHFILL
INITIAL CONSTRUCTION
PLAN - STA. 219+95 TO STA. 249+87

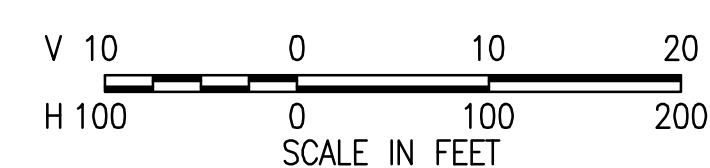
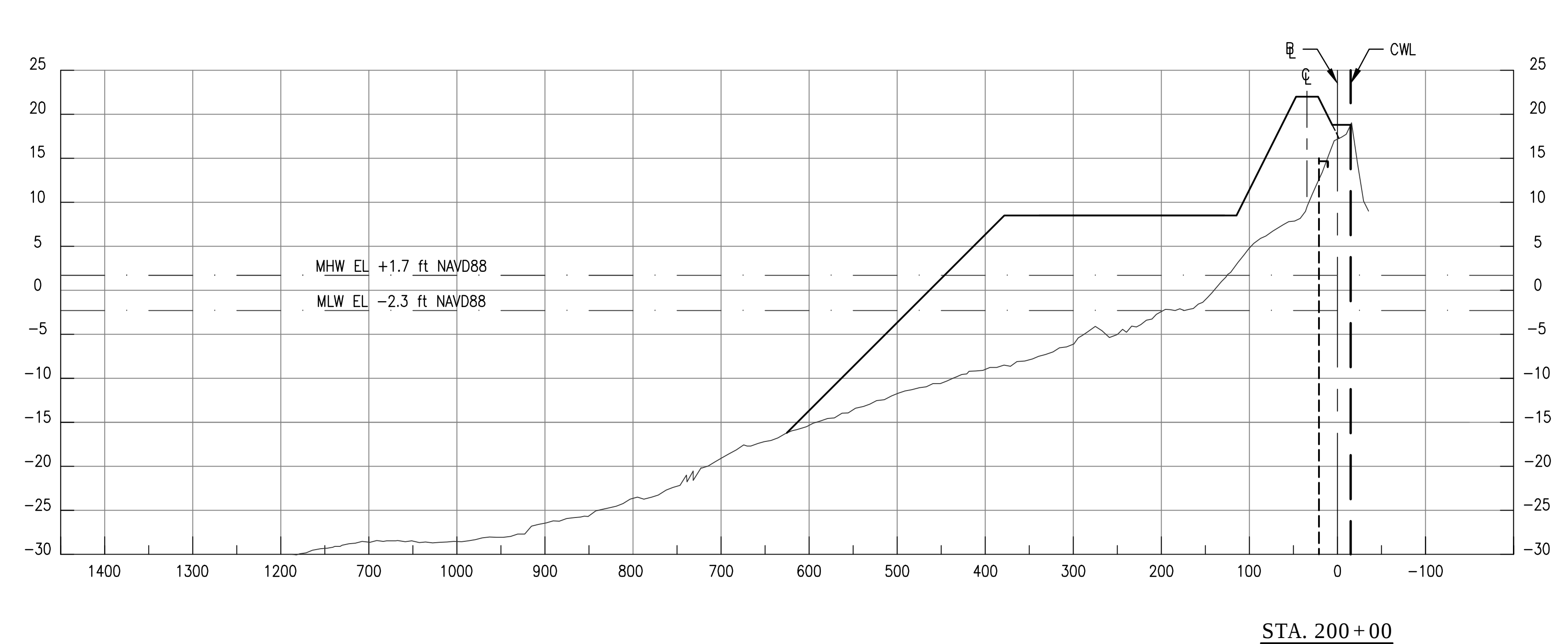
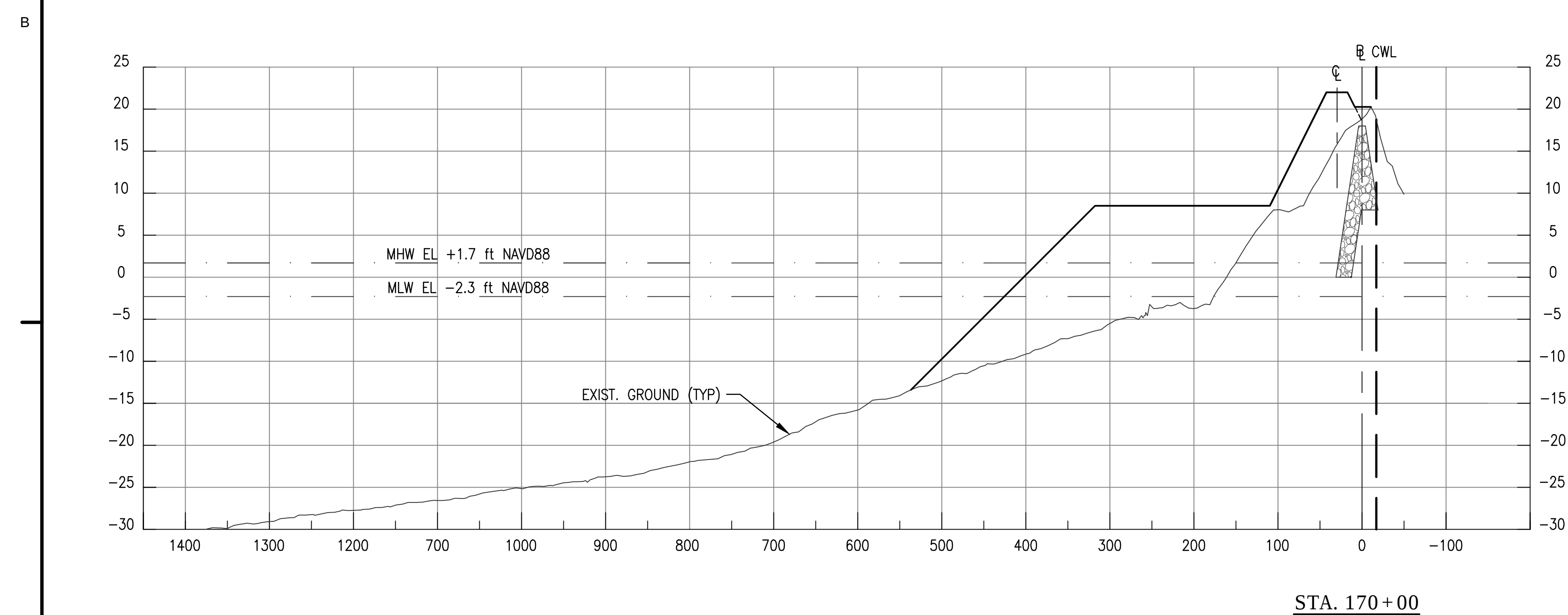
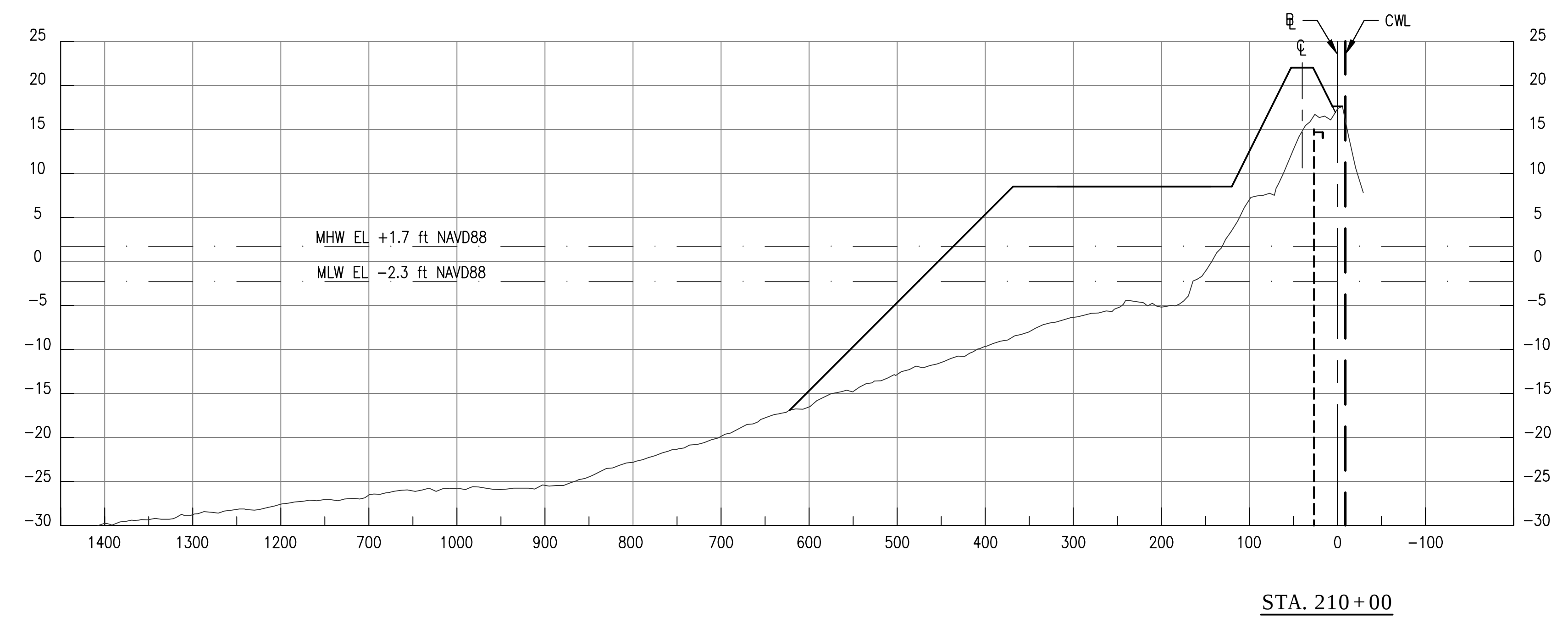
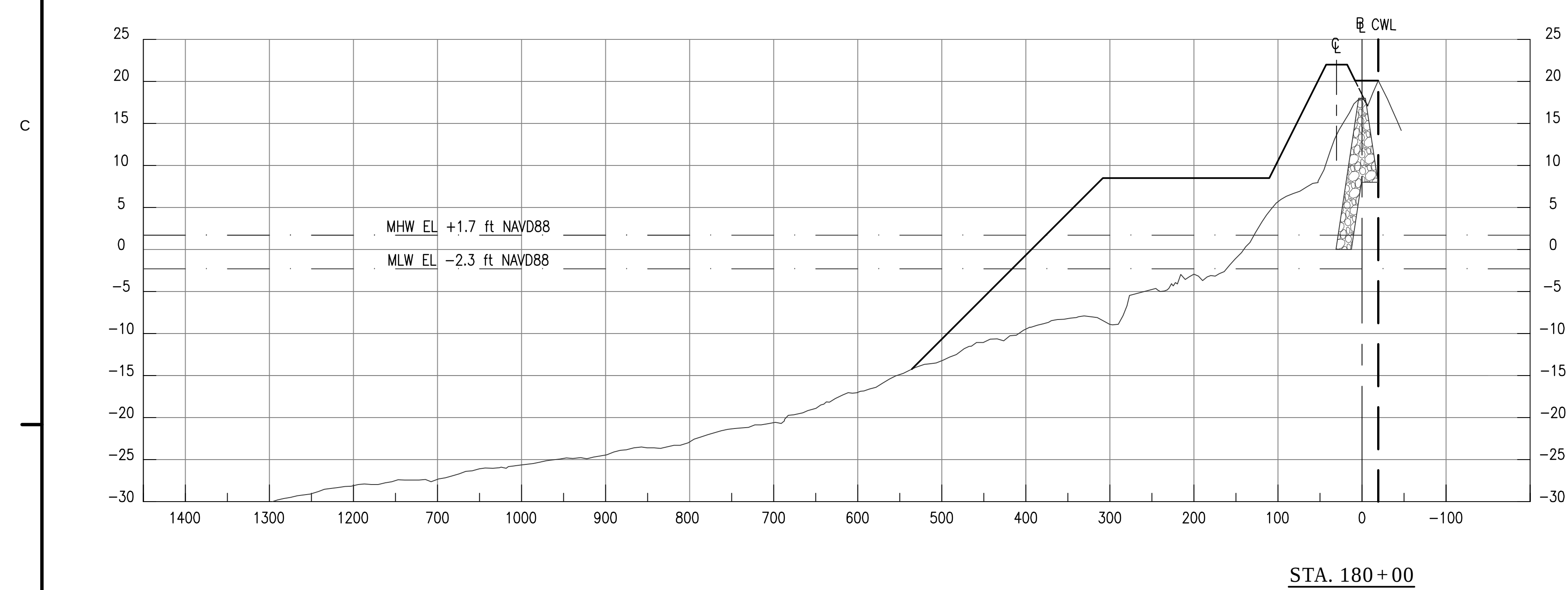
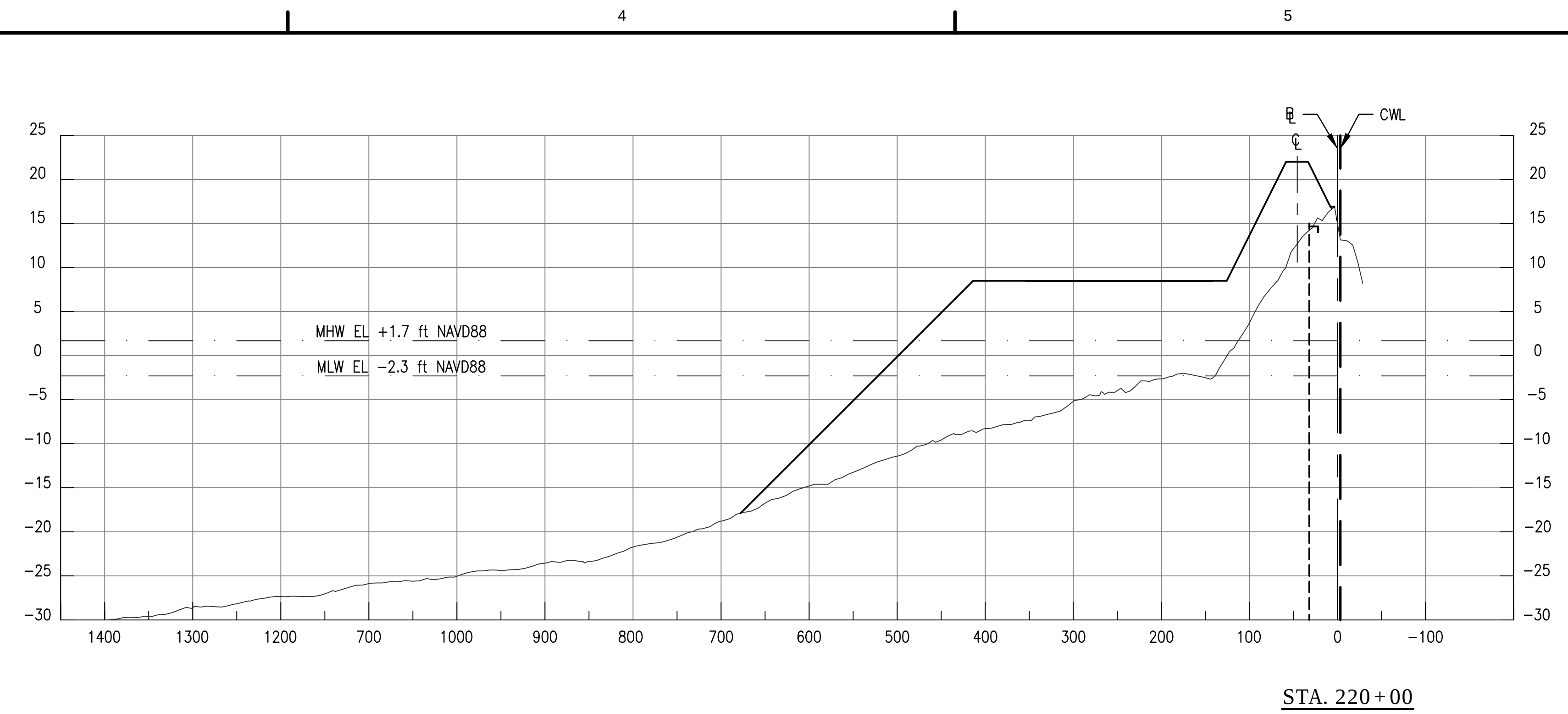
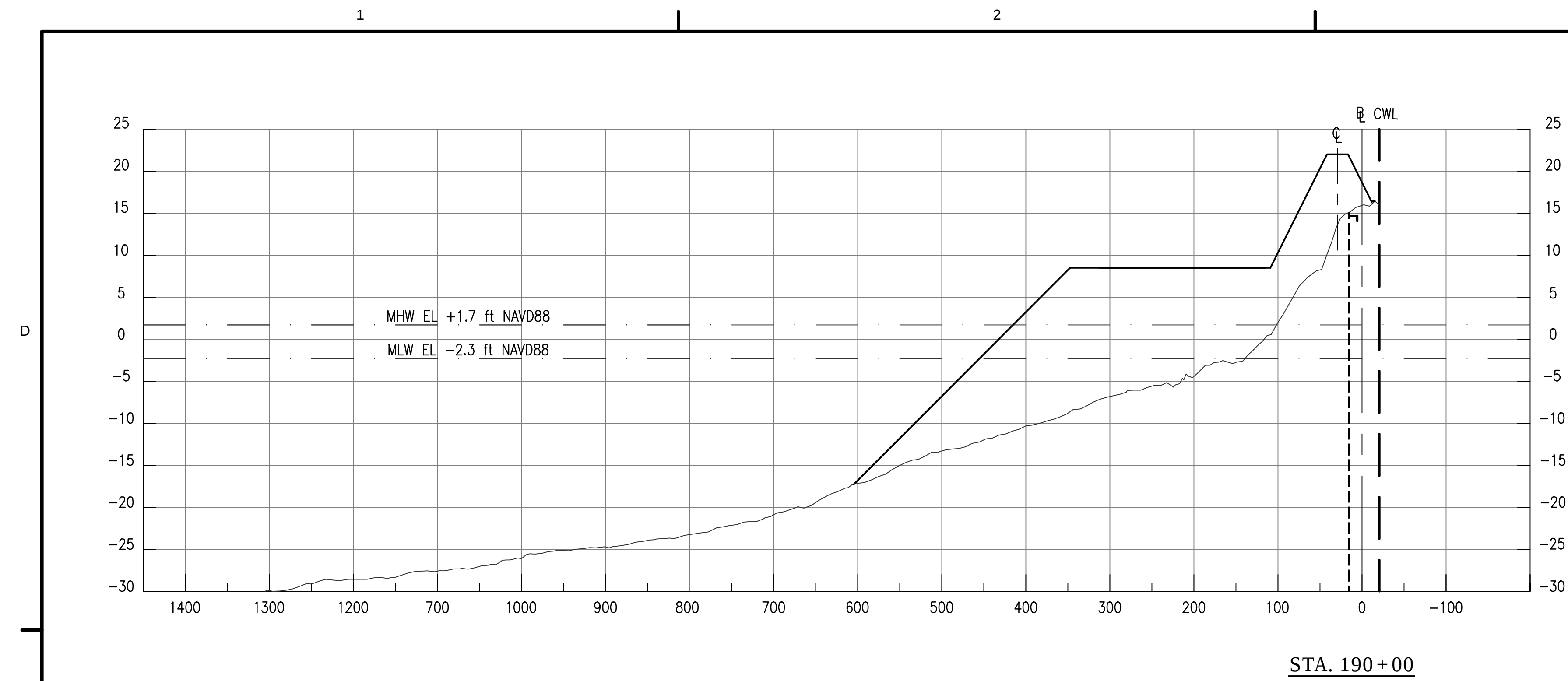
SHEET NUMBER
CM-102



NOTES:

1. SEE SHEET C-001 FOR LEGEND AND GENERAL NOTES.
2. SEE SHEET C-102 FOR SURVEY AND CONSTRUCTION BASELINE GEOMETRY.
3. SEE SHEET C-104 FOR CONTRACTOR WORK LIMIT COORDINATES.
4. SEE SHEET CM-200 FOR TYPICAL BEACHFILL SECTION, AND SHEETS CM-300 TO CM-301 FOR CROSS SECTIONS.
5. SEE SHEET C-400 FOR DUNE CROSSOVER SCHEDULE AND SHEETS C-402 TO C-404 FOR PLANS OF CROSSOVERS.
6. SEE SHEET C-419 FOR DUNE PLANTING AND FENCE DETAILS.
7. SEE SHEETS C-500 THROUGH C-502 FOR BORROW AREA PLANS.
8. NO ANCHORING OR PIPELINE PLACEMENT IS PERMITTED WITHIN ANY CULTURAL EXCLUSION ZONES. ONLY PLACEMENT OF BEACHFILL IS PERMITTED. SEE SPECIFICATIONS FOR RESTRICTIONS.
8. PLACE SANDFILL OR GRADE TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING SHEETPILE WALL OR EXISTING 48" FORCE MAIN THAT OCCURS DURING THE BEACHFILL CONSTRUCTION AT NO EXPENSE TO THE GOVERNMENT. EXISTING SHEETPILE WALL IS LOCATED BETWEEN STA. 187+76± TO STA. 371+35±.

1. PLACE SANDFILL TO ELIMINATE LOW AREAS BETWEEN THE EXISTING DUNE AND THE DUNE TEMPLATE.
2. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING STONE REVETMENT OR SHEETPILE WALL THAT OCCURS DURING THE BACKFILL CONSTRUCTION AT NO EXPENSE TO THE GOVERNMENT.
3. FOR BEACHFILL PLACEMENT AND PAYMENT TOLERANCES, SEE CONTRACT SPECIFICATIONS.



NOTES:

1. CULTURAL EXCLUSION ZONES NOT SHOWN ON CROSS SECTIONS, SEE PLAN SHEET AND SPECIFICATIONS.
2. FOR TYPICAL SECTIONS, SEE SHEET CM-200.
3. EXISTING STONE REVETMENT LOCATION AND ELEVATION ARE APPROXIMATE.

