

PAY PROFILES				
STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
10+00	1264626.57	842851.59	100'	70.0
11+00	1264535.84	842893.64	100'	70.0
12+00	1264445.10	842935.68	100'	70.0
13+00	1264354.37	842977.73	100'	70.0
14+00	1264263.64	843019.77	100'	70.0
15+00	1264172.91	843061.82	100'	70.0
16+00	1264082.18	843103.86	100'	70.0
17+00	1263991.45	843145.91	100'	70.0
18+00	1263900.72	843187.95	100'	70.0
19+00	1263809.98	843230.00	91'	70.0
19+91	1263727.02	843268.45	109'	70.0
21+00	1263628.52	843314.09	100'	70.0
22+00	1263537.79	843356.14	100'	70.0
23+00	1263447.06	843398.18	100'	70.0
24+00	1263356.33	843440.23	100'	70.0
25+00	1263265.59	843482.27	100'	70.0
26+00	1263174.86	843524.32	100'	70.0
27+00	1263084.13	843566.36	100'	70.0
28+00	1262993.40	843608.41	100'	70.0
29+00	1262902.67	843650.45	109'	70.0
30+09	1262803.48	843696.41	91'	70.0
31+00	1262721.21	843734.54	100'	70.0
32+00	1262630.47	843776.59	100'	70.0
33+00	1262539.74	843818.63	100'	70.0
34+00	1262449.01	843860.68	100'	70.0
35+00	1262358.28	843902.72	100'	70.0
36+00	1262267.55	843944.77	100'	70.0
37+00	1262176.82	843986.81	100'	70.0
38+00	1262086.09	844028.86	100'	70.0
39+00	1261995.35	844070.90	100'	70.0
40+00	1261904.62	844112.95	31'	70.0
40+31	1261876.59	844125.94	69'	70.0
41+00	1261813.89	844154.99	100'	70.0
42+00	1261723.16	844197.04	100'	70.0
43+00	1261632.43	844239.08	100'	70.0
44+00	1261541.70	844281.13	100'	70.0
45+00	1261450.97	844323.17	100'	70.0
46+00	1261360.23	844365.22	100'	70.0
47+00	1261269.50	844407.27	100'	70.0
48+00	1261178.77	844449.31	100'	70.0
49+00	1261088.04	844491.36	100'	70.0
50+00	1260997.31	844533.40	31'	70.0
50+31	1260969.24	844546.41	69'	70.0
51+00	1260906.58	844575.45	100'	70.0
52+00	1260815.84	844617.49	100'	70.0
53+00	1260725.11	844659.54	100'	70.0
54+00	1260634.38	844701.58	100'	70.0
55+00	1260543.65	844743.63	100'	70.0
56+00	1260452.92	844785.67	100'	70.0
57+00	1260362.19	844827.72	100'	70.0
58+00	1260271.46	844869.76	100'	70.0

PAY PROFILES				
STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
59+00	1260180.72	844911.81	100'	70.0
60+00	1260089.99	844953.85	100'	70.0
61+00	1259999.26	844995.90	49'	70.0
61+49	1259954.45	845016.66	51'	70.0
62+00	1259908.53	845037.94	100'	70.0
63+00	1259817.80	845079.99	100'	70.0
64+00	1259727.07	845122.03	100'	70.0
65+00	1259636.34	845164.08	100'	70.0
66+00	1259545.60	845206.12	100'	70.0
67+00	1259454.87	845248.17	100'	70.0
68+00	1259364.14	845290.21	100'	70.0
69+00	1259273.41	845332.26	100'	70.0
70+00	1259182.68	845374.30	112'	70.0
71+12	1259080.75	845421.54	88'	70.0
72+00	1259004.69	845465.12	100'	70.0
73+00	1258917.94	845514.85	100'	70.0
74+00	1258831.18	845564.58	100'	70.0
75+00	1258744.42	845614.31	100'	70.0
76+00	1258657.66	845664.04	100'	70.0
77+00	1258570.90	845713.77	100'	70.0
78+00	1258484.14	845763.50	71'	70.0
78+71	1258422.35	845798.92	29'	70.0
79+00	1258397.38	845813.23	100'	70.0
80+00	1258310.63	845862.95	100'	70.0
81+00	1258223.87	845912.68	100'	70.0
82+00	1258137.11	845962.41	100'	70.0
83+00	1258050.35	846012.14	100'	70.0
84+00	1257963.59	846061.87	100'	70.0
85+00	1257876.83	846111.60	100'	70.0
86+00	1257790.08	846161.33	100'	70.0
87+00	1257703.32	846211.06	100'	70.0
88+00	1257616.56	846260.79	100'	70.0
89+00	1257529.80	846310.52	21'	70.0
89+21	1257511.77	846320.85	79'	70.0
90+00	1257441.38	846357.19	100'	70.0
91+00	1257352.53	846403.07	100'	70.0
92+00	1257263.67	846448.95	100'	70.0
93+00	1257174.82	846494.83	100'	70.0
94+00	1257085.96	846540.70	100'	70.0
95+00	1256997.10	846586.58	100'	70.0
96+00	1256908.25	846632.46	100'	70.0
97+00	1256819.39	846678.34	100'	70.0
98+00	1256730.54	846724.21	75'	70.0
98+75	1256663.79	846758.68	25'	70.0
99+00	1256641.68	846770.09	100'	70.0
100+00	1256552.83	846815.97	100'	70.0
101+00	1256463.97	846861.85	100'	70.0
102+00	1256375.12	846907.72	100'	70.0
103+00	1256286.26	846953.60	100'	70.0
104+00	1256197.41	846999.48	100'	70.0
105+00	1256108.55	847045.36	100'	70.0

PAY PROFILES				
STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
106+00	1256019.70	847091.24	100'	70.0
107+00	1255930.84	847137.11	100'	70.0
108+00	1255841.99	847182.99	95'	70.0
108+95	1255757.58	847226.57	105'	70.0
110+00	1255664.28	847274.75	100'	70.0
111+00	1255575.42	847320.62	100'	70.0
112+00	1255486.57	847366.50	100'	70.0
113+00	1255397.71	847412.38	100'	70.0
114+00	1255308.86	847458.26	100'	70.0
115+00	1255220.00	847504.13	100'	70.0
116+00	1255131.15	847550.01	100'	70.0
117+00	1255042.29	847595.89	100'	70.0
118+00	1254953.44	847641.77	35'	70.0
118+35	1254922.42	847657.78	65'	70.0
119+00	1254863.68	847685.84	100'	70.0
120+00	1254773.45	847728.95	100'	70.0
121+00	1254683.22	847772.06	100'	70.0
122+00	1254592.99	847815.17	100'	70.0
123+00	1254502.76	847858.28	100'	70.0
124+00	1254412.53	847901.39	100'	70.0
125+00	1254322.30	847944.50	100'	70.0
126+00	1254232.07	847987.61	100'	70.0
127+00	1254141.84	848030.72	92'	70.0
127+92	1254058.55	848070.51	108'	70.0
129+00	1253961.38	848116.94	100'	70.0
130+00	1253871.15	848160.05	100'	70.0
131+00	1253780.92	848203.16	100'	70.0
132+00	1253690.69	848246.27	100'	70.0
133+00	1253600.46	848289.38	100'	70.0
134+00	1253510.23	848332.49	100'	70.0
135+00	1253420.00	848375.60	100'	70.0
136+00	1253329.77	848418.71	100'	70.0
137+00	1253239.53	848461.82	84'	70.0
137+84	1253164.07	848497.87	116'	70.0
139+00	1253057.96	848545.63	100'	70.0
140+00	1252966.77	848586.67	100'	70.0
141+00	1252875.58	848627.71	100'	70.0
142+00	1252784.39	848668.75	100'	70.0
143+00	1252693.20	848709.79	100'	70.0
144+00	1252602.01	848750.83	100'	70.0
145+00	1252510.82	848791.87	100'	70.0
146+00	1252419.63	848832.91	100'	70.0
147+00	1252328.44	848873.96	45'	70.0
147+45	1252287.75	848892.27	55'	70.0
148+00	1252237.25	848915.00	100'	70.0
149+00	1252146.05	848956.04	100'	70.0
150+00	1252054.86	848997.08	100'	70.0
151+00	1251963.67	849038.12	100'	70.0
152+00	1251872.48	849079.16	100'	70.0
153+00	1251781.29	849120.20	100'	70.0
154+00	1251690.10	849161.24	100'	70.0

PAY PROFILES				
STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
155+00	1251598.91	849202.28	100'	70.0
156+00	1251507.72	849243.32	100'	70.0
157+00	1251416.53	849284.36	100'	70.0
158+00	1251325.34	849325.41	100'	70.0
159+00	1251234.45	849367.09	100'	70.0
160+00	1251143.55	849408.77	100'	70.0
161+00	1251052.65	849450.45	100'	70.0
162+00	1250961.75	849492.13	100'	70.0
163+00	1250870.85	849533.81	100'	70.0
164+00	1250779.95	849575.50	100'	70.0
165+00	1250689.05	849617.18	100'	70.0
166+00	1250598.15	849658.86	63'	70.0
166+63	1250541.07	849685.03	37'	70.0
167+00	1250507.25	849700.54	100'	70.0
168+00	1250416.35	849742.22	100'	70.0
169+00	1250325.46	849783.91	100'	70.0
170+00	1250234.56	849825.59	100'	70.0
171+00	1250143.66	849867.27	100'	70.0
172+00	1250052.76	849908.95	100'	70.0
173+00	1249961.86	849950.63	100'	70.0
174+00	1249870.96	849992.32	100'	70.0
175+00	1249780.06	850034.00	100'	70.0
176+00	1249689.16	850075.68	45'	70.0
176+45	1249648.32	850094.41	55'	70.0
177+00	1249598.26	850117.36	100'	70.0
178+00	1249507.36	850159.04	100'	70.0
179+00	1249416.47	850200.72	100'	70.0
180+00	1249325.57	850242.41	100'	70.0
181+00	1249234.67	850284.09	100'	70.0
182+00	1249143.77	850325.77	100'	70.0
183+00	1249052.87	850367.45	100'	70.0
184+00	1248961.97	850409.13	100'	70.0
185+00	1248871.07	850450.82	118'	70.0
186+18	1248763.43	850500.17	82'	70.0
187+00	1248689.27	850534.18	100'	70.0
188+00	1248598.37	850575.86	100'	70.0

NOTES:

1. ALL PAY PROFILES SHALL BE SURVEYED AT THE AZIMUTH SHOWN IN THE PAY PROFILES TABLE.
2. CONTRACTOR WILL ONLY BE PAID FOR SAND PLACED WITHIN THE LINES AND GRADES AS SHOWN ON SHEETS PV-1 TO PV-24.
3. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
4. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

PAY PROFILES

STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
189+00	1248507.48	850617.54	100'	70.0
190+00	1248416.58	850659.23	100'	70.0
191+00	1248325.68	850700.91	100'	70.0
192+00	1248234.78	850742.59	100'	70.0
193+00	1248143.88	850784.27	100'	70.0
194+00	1248052.98	850825.95	100'	70.0
195+00	1247962.08	850867.63	79'	70.0
196+00	1247870.59	850907.88	100'	70.0
196+79	1247890.10	850900.64	21'	70.0
197+00	1247776.82	850942.62	100'	70.0
198+00	1247683.05	850977.36	100'	70.0
199+00	1247589.28	851012.11	100'	70.0
200+00	1247495.51	851046.85	100'	70.0
201+00	1247401.73	851081.59	100'	70.0
202+00	1247307.96	851116.34	100'	70.0
203+00	1247214.19	851151.08	100'	70.0
204+00	1247120.42	851185.82	100'	70.0
205+00	1247026.65	851220.56	81'	70.0
205+81	1246950.30	851248.85	119'	70.0
207+00	1246844.32	851302.04	100'	70.0
208+00	1246754.95	851346.89	100'	70.0
209+00	1246665.57	851391.75	100'	70.0
210+00	1246576.19	851436.60	100'	70.0
211+00	1246486.82	851481.46	100'	70.0
212+00	1246397.44	851526.31	100'	70.0
213+00	1246308.07	851571.17	100'	70.0
214+00	1246218.69	851616.02	100'	70.0
215+00	1246129.31	851660.87	100'	70.0
216+00	1246039.94	851705.73	67'	70.0
216+67	1245980.24	851735.69	33'	70.0
217+00	1245952.34	851753.69	100'	70.0
218+00	1245868.31	851807.91	100'	70.0
219+00	1245784.29	851862.13	100'	70.0
220+00	1245700.26	851916.35	100'	70.0
221+00	1245616.24	851970.58	100'	70.0
222+00	1245532.22	852024.80	100'	70.0
223+00	1245448.19	852079.02	100'	70.0
224+00	1245364.17	852133.24	100'	70.0
225+00	1245280.14	852187.46	100'	70.0
226+00	1245196.12	852241.68	71'	70.0
226+71	1245136.87	852279.91	29'	70.0
227+00	1245110.92	852293.92	100'	70.0
228+00	1245022.93	852341.43	100'	70.0
229+00	1244934.93	852388.94	100'	70.0
230+00	1244846.94	852436.45	100'	70.0
231+00	1244758.95	852483.96	100'	70.0
232+00	1244670.95	852531.47	100'	70.0
233+00	1244582.96	852578.97	100'	70.0
234+00	1244494.97	852626.48	100'	70.0
235+00	1244406.97	852673.99	100'	70.0
236+00	1244318.98	852721.50	100'	70.0

PAY PROFILES

STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
237+00	1244230.99	852769.01	100'	70.0
238+00	1244142.99	852816.52	100'	70.0
239+00	1244055.00	852864.03	100'	70.0
240+00	1243967.00	852911.54	32'	70.0
240+32	1243939.11	852926.60	68'	70.0
241+00	1243878.12	852957.35	100'	70.0
242+00	1243788.83	853002.37	100'	70.0
243+00	1243699.54	853047.40	100'	70.0
244+00	1243610.25	853092.42	100'	70.0
245+00	1243520.96	853137.44	100'	70.0
246+00	1243431.67	853182.46	100'	70.0
247+00	1243342.38	853227.49	100'	70.0
248+00	1243253.09	853272.51	100'	70.0
249+00	1243163.79	853317.53	100'	70.0
250+00	1243074.50	853362.56	100'	70.0
251+00	1242985.21	853407.58	100'	70.0
252+00	1242895.92	853452.60	100'	70.0
253+00	1242806.63	853497.62	100'	70.0
254+00	1242717.34	853542.65	100'	70.0
255+00	1242628.05	853587.67	100'	70.0
256+00	1242538.75	853632.69	100'	70.0
257+00	1242449.46	853677.72	30'	70.0
257+30	1242422.74	853691.19	70'	70.0
258+00	1242360.17	853722.74	100'	70.0
259+00	1242270.88	853767.76	100'	70.0
260+00	1242181.59	853812.78	100'	70.0
261+00	1242092.30	853857.81	100'	70.0
262+00	1242003.01	853902.83	100'	70.0
263+00	1241913.72	853947.85	100'	70.0
264+00	1241824.42	853992.88	100'	70.0
265+00	1241735.13	854037.90	100'	70.0
266+00	1241645.84	854082.92	64'	70.0
266+64	1241589.03	854111.56	36'	70.0
267+00	1241555.83	854126.44	100'	70.0
268+00	1241464.57	854167.32	100'	70.0
269+00	1241373.31	854208.20	100'	70.0
270+00	1241282.05	854249.09	100'	70.0
271+00	1241190.79	854289.97	100'	70.0
272+00	1241099.53	854330.85	100'	70.0
273+00	1241008.27	854371.74	100'	70.0
274+00	1240917.01	854412.62	100'	70.0
275+00	1240825.75	854453.50	100'	70.0
276+00	1240734.49	854494.39	46'	70.0
276+46	1240692.59	854513.15	54'	70.0
277+00	1240643.22	854535.27	100'	70.0
278+00	1240551.96	854576.15	100'	70.0
279+00	1240460.70	854617.04	100'	70.0
280+00	1240369.44	854657.92	100'	70.0
281+00	1240278.18	854698.80	100'	70.0
282+00	1240186.92	854739.69	100'	70.0
283+00	1240095.66	854780.57	100'	70.0

PAY PROFILES

STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
284+00	1240004.40	854821.45	100'	70.0
285+00	1239913.14	854862.34	100'	70.0
286+00	1239821.88	854903.22	22'	70.0
286+22	1239801.73	854912.25	78'	70.0
287+00	1239730.18	854943.11	100'	70.0
288+00	1239638.35	854982.71	100'	70.0
289+00	1239546.53	855022.31	100'	70.0
290+00	1239454.70	855061.91	100'	70.0
291+00	1239362.88	855101.52	100'	70.0
292+00	1239271.06	855141.12	100'	70.0
293+00	1239179.23	855180.72	100'	70.0
294+00	1239087.41	855220.32	100'	70.0
295+00	1238995.58	855259.92	111'	70.0
296+11	1238893.29	855304.04	89'	70.0
297+00	1238811.94	855339.13	100'	70.0
298+00	1238720.11	855378.73	100'	70.0
299+00	1238628.29	855418.33	100'	70.0
300+00	1238536.46	855457.93	100'	70.0
301+00	1238444.64	855497.54	100'	70.0
302+00	1238352.81	855537.14	100'	70.0
303+00	1238260.99	855576.74	100'	70.0
304+00	1238169.17	855616.34	100'	70.0
305+00	1238077.34	855655.94	100'	70.0
306+00	1237985.52	855695.55	47'	70.0
306+47	1237942.01	855714.30	53'	70.0
307+00	1237892.40	855731.86	100'	70.0
308+00	1237798.13	855765.21	100'	70.0
309+00	1237703.86	855798.57	100'	70.0
310+00	1237609.58	855831.92	100'	70.0
311+00	1237515.31	855865.28	100'	70.0
312+00	1237421.04	855898.63	100'	70.0
313+00	1237326.76	855931.99	100'	70.0
314+00	1237232.49	855965.35	100'	70.0
315+00	1237138.22	855998.70	100'	70.0
316+00	1237043.95	856032.06	67'	70.0
316+67	1236980.49	856054.51	33'	70.0
317+00	1236949.67	856065.41	100'	70.0
318+00	1236855.40	856098.77	100'	70.0
319+00	1236761.13	856132.13	100'	70.0
320+00	1236666.85	856165.48	100'	70.0
321+00	1236572.58	856198.84	100'	70.0
322+00	1236478.31	856232.19	100'	70.0
323+00	1236384.04	856265.55	100'	70.0
324+00	1236289.76	856298.91	100'	70.0
325+00	1236195.49	856332.26	100'	70.0
326+00	1236101.22	856365.62	52'	70.0
326+52	1236052.49	856382.86	48'	70.0
327+00	1236005.52	856394.15	100'	70.0
328+00	1235908.28	856417.51	100'	70.0
329+00	1235811.05	856440.86	100'	70.0
330+00	1235713.81	856464.22	100'	70.0

PAY PROFILES

STATION	NORTHING	EASTING	PERPENDICULAR DISTANCE TO NEXT STATION	AZIMUTH (DEGREES)
331+00	1235616.58	856487.58	100'	70.0
332+00	1235519.34	856510.93	100'	70.0
333+00	1235422.11	856534.29	100'	70.0
335+00	1235227.64	856581.00	100'	70.0
336+00	1235130.41	856604.38	84'	70.0
336+84	1235049.06	856624.35	116'	70.0
338+00	1234935.94	856651.07	100'	70.0
339+00	1234838.71	856674.43	100'	70.0
340+00	1234741.47	856697.78	100'	70.0
341+00	1234644.24	856721.14	100'	70.0
342+00	1234547.01	856744.50	100'	70.0
343+00	1234449.77	856767.85	100'	70.0
344+00	1234352.54	856791.21	100'	70.0
345+00	1234255.30	856814.57	100'	70.0
346+00	1234158.07	856837.92	100'	70.0
347+00	1234060.83	856861.28	100'	70.0
348+00	1233963.60	856884.64	100'	70.0
349+00	1233866.37	856907.99	100'	70.0
350+00	1233769.13	856931.35	100'	70.0
351+00	1233671.90	856954.70	100'	70.0
352+00	1233574.66	856978.06	100'	70.0
353+00	1233477.43	857001.42	100'	70.0
354+00	1233380.20	857024.77	100'	70.0
355+00	1233282.96	857048.13	100'	70.0
356+00	1233185.73	857071.49	70'	70.0
356+70	1233117.61	857087.85	0'	70.0

NOTES:

1. ALL PAY PROFILES SHALL BE SURVEYED AT THE AZIMUTH SHOWN IN THE PAY PROFILE TABLE.
2. CONTRACTOR WILL ONLY BE PAID FOR SAND PLACED WITHIN THE LINES AND GRADES AS SHOWN ON SHEETS PV-1 TO PV-24.
3. COORDINATES ARE IN FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
4. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH
THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

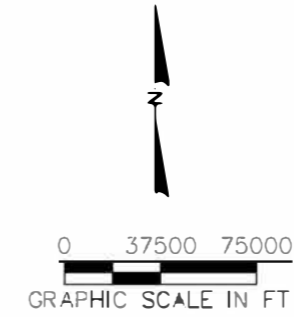
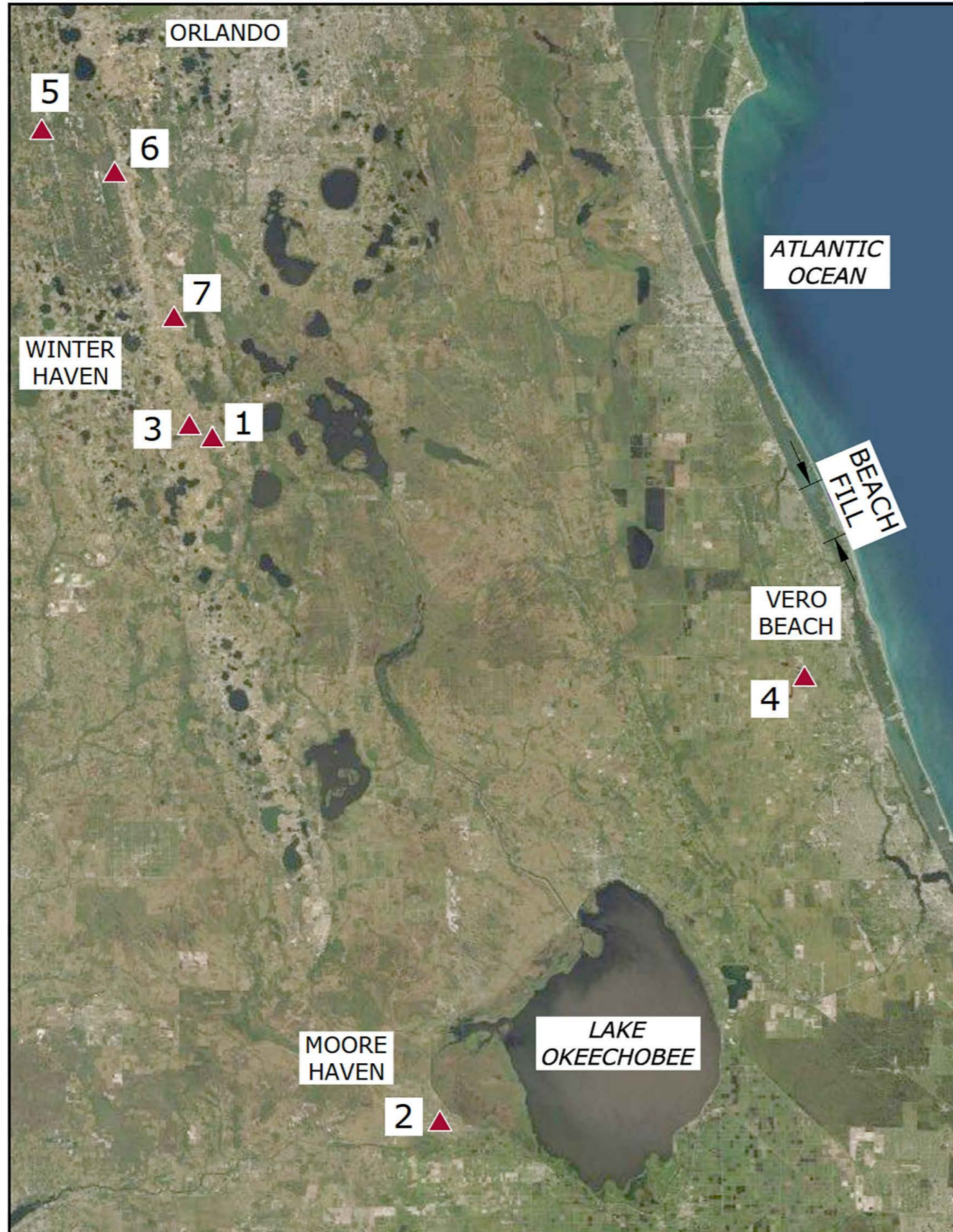
DOUGLAS W MANN, P.E. NO. 44046

DATE

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
PH: (661) 391-8102
FAX: (661) 391-9116
C.O.A. FL #8317
C.O.A. LA #2531

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.APTIM.com

REVISIONS	No.	Date	Description



- UPLAND SAND SOURCES**
1. VULCAN – DIAMOND MINE
205 STORY ROAD
LAKE WALES, FL 33898
 2. VULCAN – WITHERSPOON MINE
7425 W. STATE ROAD 78
MOORE HAVEN, FL 33471
 3. VULCAN – SANDLAND MINE
2200 BURNS AVENUE
LAKE WALES, FL 33898
 4. STEWART – FORT PIERCE MINE
13575 INDRIO ROAD
FORT PIERCE, FL 34945
 5. JAHNA – INDEPENDENT MINE
8455 COUNTY ROAD 474
CLERMONT, FL 34714
 6. JAHNA – GREEN BAY MINE
4949 SAND MINE ROAD
DAVENPORT, FL 33897
 7. JAHNA – HAINES CITY MINE
4910 JAHNA SAND MINE ROAD
HAINES CITY, FL 33844

NOTES:
1. AERIAL PHOTOGRAPHY: JANUARY 2020

CERTIFICATION:
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THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

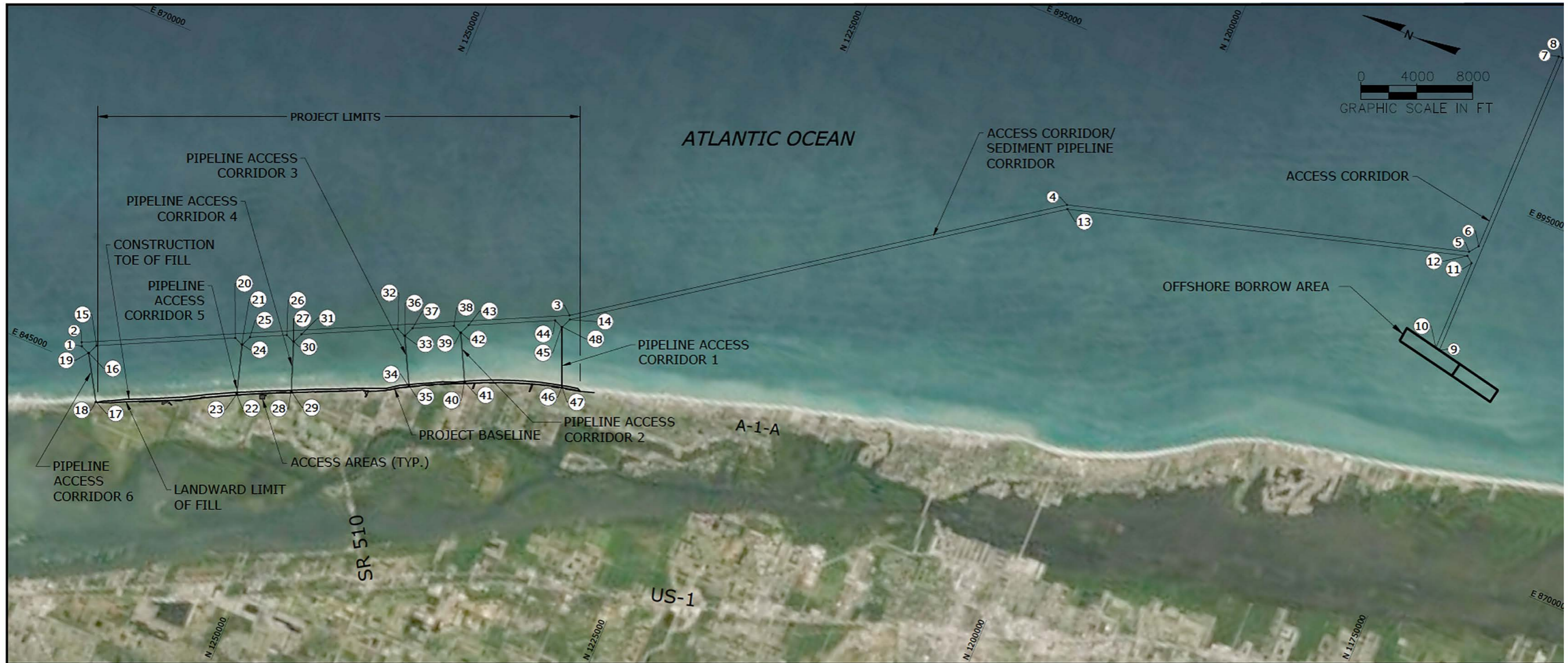
APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
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FAX (561) 391-9116
C.O.A. FL.#9317

Reference Files	Designed by:	Checked by:	REVISIONS
CP	DN	CP	
Drawn by:	Reviewed by:	Submitted by:	Description
KC	CP	CP	
Date:	04/16/20	CP	
Plot Scale:		Comm. No.:	

SECTOR 3
BEACH AND DUNE RENOURISHMENT PROJECT
CONSTRUCTION PLANS
INDIAN RIVER COUNTY, FLORIDA
PROJECT OVERVIEW

DRAWING NO.
OV-1

SHEET 5 OF 44



ACCESS CORRIDOR/SEDIMENT PIPELINE CORRIDOR COORDINATES		
POINT NO.	EASTING	NORTHING
1	846186.4	1267210.7
2	846456.0	1267342.4
3	861796.0	1235935.5
4	882907.5	1206228.8
5	891000.1	1178444.0
6	891639.9	1177964.0
7	906345.3	1177964.0
8	906360.2	1177664.0
9	883694.4	1177664.0
10	883755.3	1177964.0
11	890327.4	1177964.0
12	890687.6	1178444.0
13	882635.3	1206090.6
14	861526.5	1235803.8

ACCESS CORRIDOR/SEDIMENT PIPELINE CORRIDOR COORDINATES		
POINT NO.	EASTING	NORTHING
15	846647.5	1266266.8
16	845953.0	1266560.0
17	842926.0	1264719.0
18	842900.0	1264761.0
19	845930.8	1266605.4
20	851009.4	1257334.7
21	850754.0	1256730.0
22	847379.0	1255717.0
23	847393.5	1255668.8
24	850776.0	1256684.0
25	851470.5	1256390.8
26	852629.4	1254019.7
27	852374.0	1253414.0
28	849026.0	1252185.0

ACCESS CORRIDOR/SEDIMENT PIPELINE CORRIDOR COORDINATES		
POINT NO.	EASTING	NORTHING
29	849043.0	1252138.0
30	852396.0	1253369.0
31	853090.5	1253075.8
32	856120.4	1246872.7
33	855865.0	1246267.0
34	852656.0	1244574.0
35	852679.2	1244530.1
36	855887.0	1246222.0
37	856581.5	1245928.8
38	857882.4	1243263.7
39	857626.8	1242658.4
40	854456.0	1241013.0
41	854479.0	1240969.0
42	857649.0	1242613.0

ACCESS CORRIDOR/SEDIMENT PIPELINE CORRIDOR COORDINATES		
POINT NO.	EASTING	NORTHING
43	858343.5	1242319.8
44	861065.4	1236747.7
45	860809.8	1236142.4
46	856817.0	1234456.0
47	856836.4	1234410.2
48	860832.0	1236097.0

NOTES:

- SIX PIPELINE CORRIDOR OPTIONS ARE AVAILABLE FOR USE BY THE CONTRACTOR. A MAXIMUM OF FOUR OF THE SIX PIPELINE CORRIDORS SHALL BE UTILIZED BY THE CONTRACTOR.
- AERIAL PHOTOGRAPHY: 2020 INDIAN RIVER COUNTY.
- COORDINATES SHOWN HEREON ARE IN FEET REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- SEE TP-16.5 FOR SEDIMENT PIPELINE INSTALLATION REQUIREMENTS.

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W MANN, P.E. NO. 44046

DATE

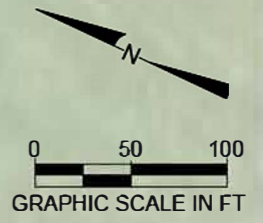
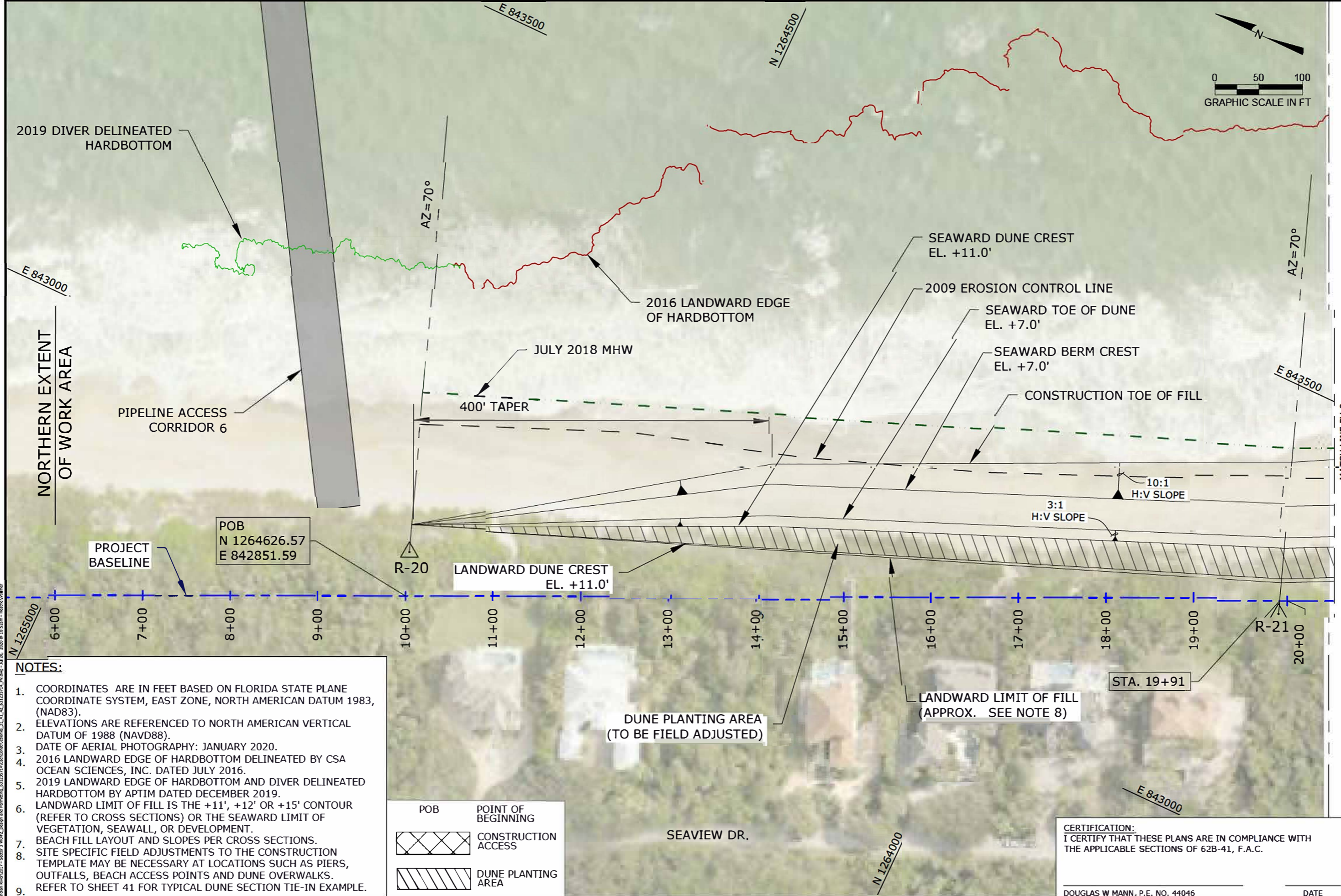
DESIGNED BY:	CHECKED BY:
CP	DM
DRAWN BY: <td>REVIEWED BY: </td>	REVIEWED BY:
CP	CP
DATE: <td>SUBMITTED BY: </td>	SUBMITTED BY:
04/16/20	CP
PROJECT NO.: <td>COMM. NO.: </td>	COMM. NO.:

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 PROJECT OVERVIEW
 OFFSHORE BORROW AREA

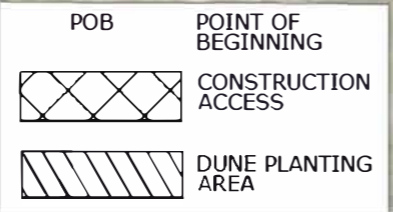
DRAWING NO.

OV-2

SHEET 6 OF 44



- NOTES:**
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 - REFER TO SHEET 41 FOR TYPICAL DUNE SECTION TIE-IN EXAMPLE.



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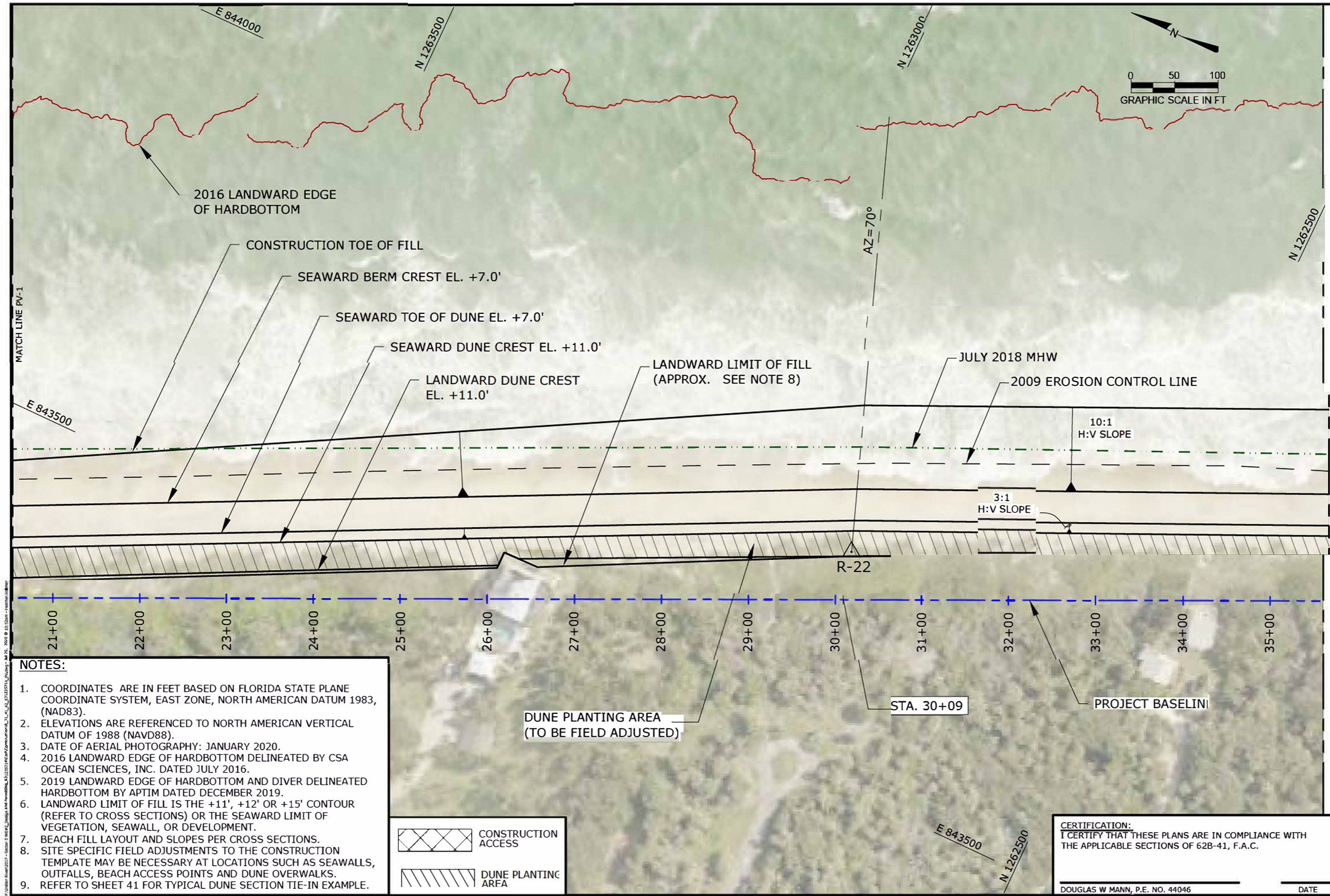
DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. # 9317

Checked by: DM	Reviewed by: CP	Submitted by: CP	Comm. No.:
Drawn by: RC	Date: 04/16/20	Proj. No.:	

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-1**
 SHEET 8 OF 44



2016 LANDWARD EDGE OF HARDBOTTOM

CONSTRUCTION TOE OF FILL

SEAWARD BERM CREST EL. +7.0'

SEAWARD TOE OF DUNE EL. +7.0'

SEAWARD DUNE CREST EL. +11.0'

LANDWARD DUNE CREST EL. +11.0'

LANDWARD LIMIT OF FILL (APPROX. SEE NOTE 8)

JULY 2018 MHW

2009 EROSION CONTROL LINE

10:1 H:V SLOPE

3:1 H:V SLOPE

R-22

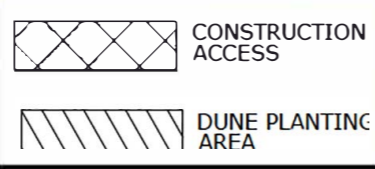
21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00

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 - REFER TO SHEET 41 FOR TYPICAL DUNE SECTION TIE-IN EXAMPLE.

DUNE PLANTING AREA (TO BE FIELD ADJUSTED)

STA. 30+09

PROJECT BASELINE



CERTIFICATION:
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DOUGLAS W MANN, P.E. NO. 44046

DATE

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FAX (861) 391-9116
C.O.A. FL #9317

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431

REVISIONS	DATE	DESCRIPTION

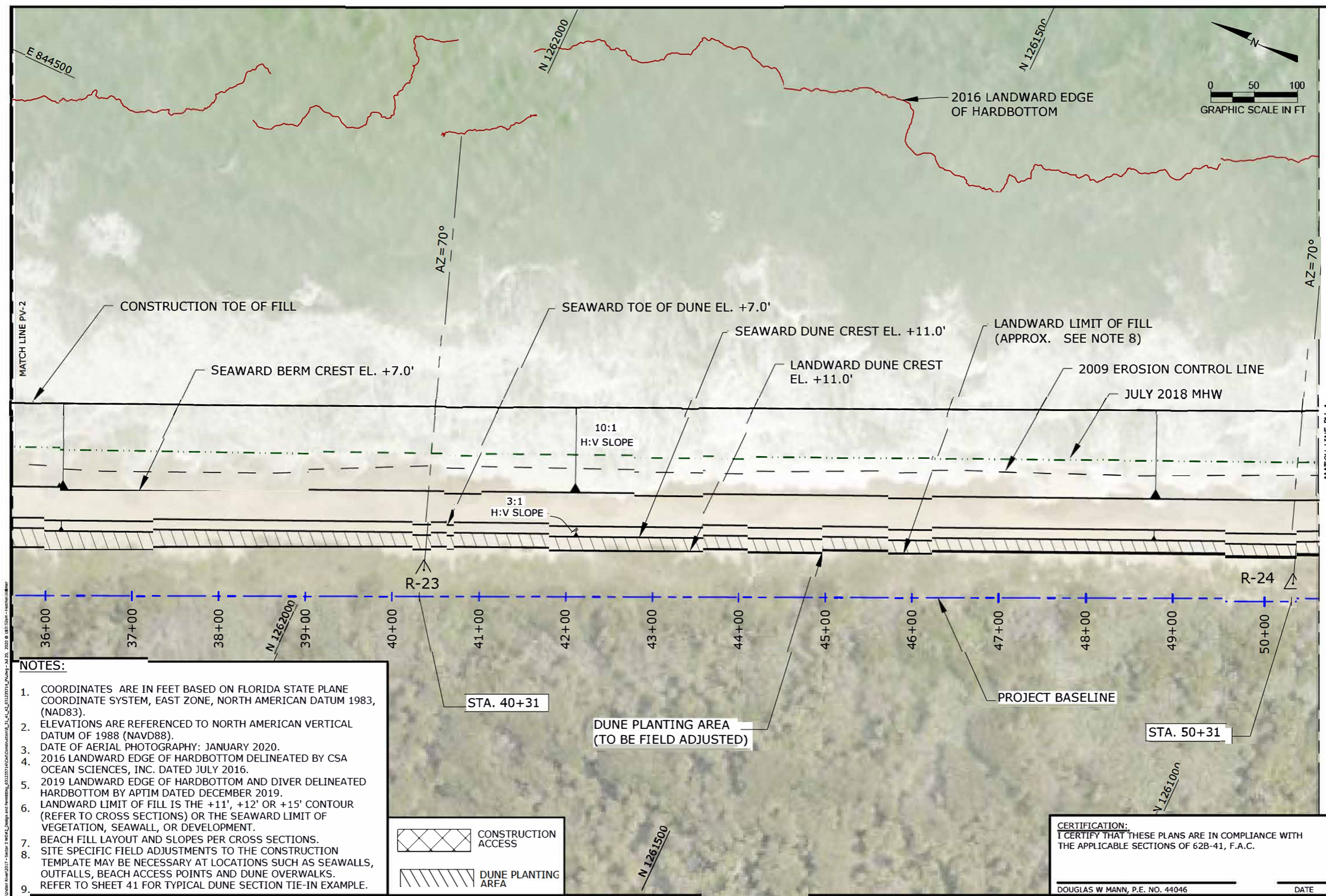
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Designed by: CP
Reviewed by: CP
Submitted by: CP
Date: 07/10/20
Lot Scale:

Reference File:

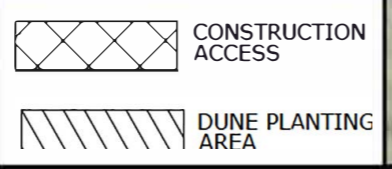
SECTOR 3
BEACH AND DUNE RENOURISHMENT PROJECT
CONSTRUCTION PLANS
INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. PV-2

SHEET 9 OF 44



- NOTES:**
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DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

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 BOCA RATON, FLORIDA 33431
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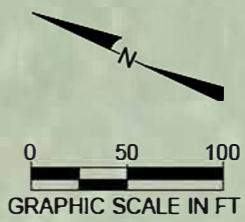
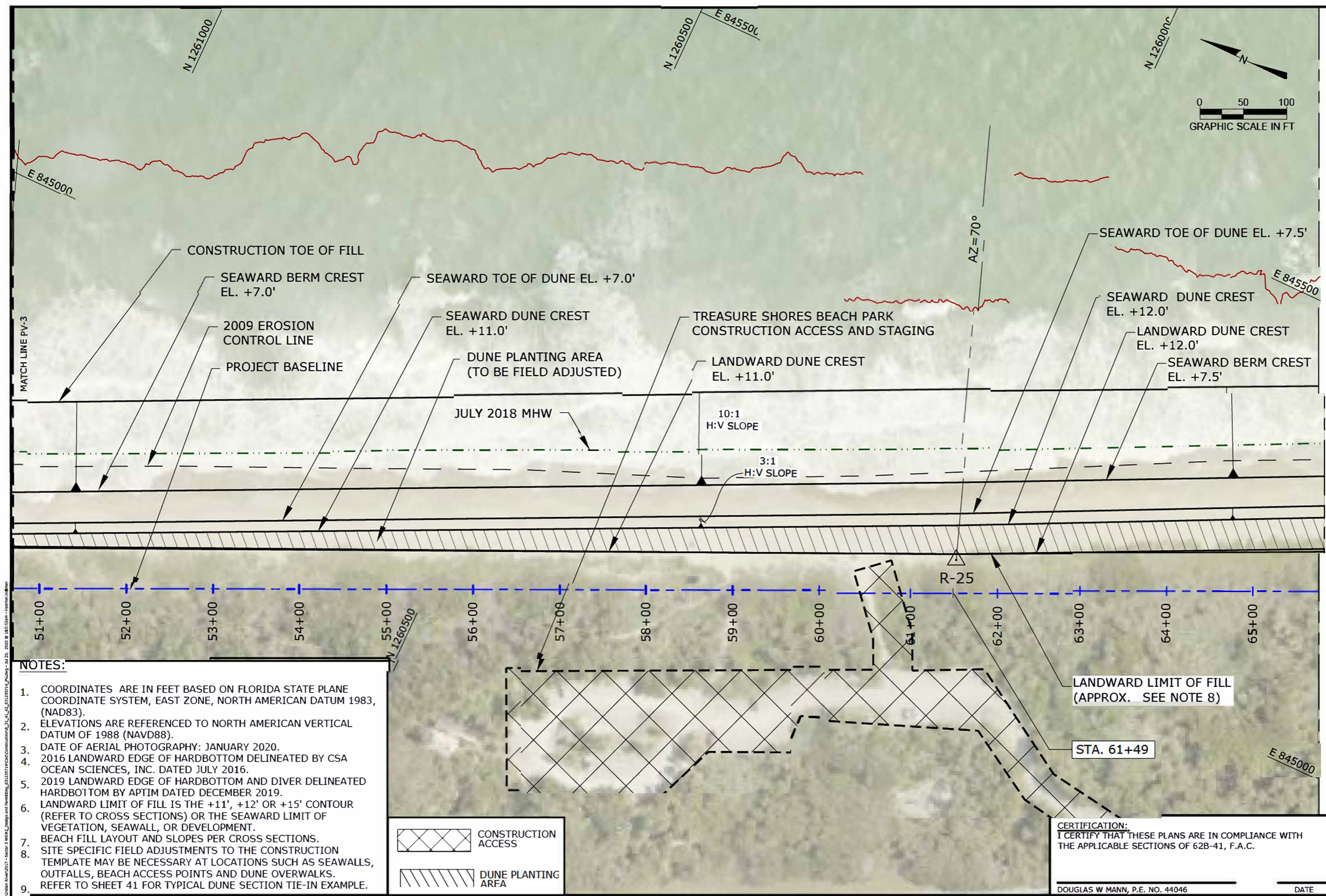
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-3**
 SHEET 10 OF 44

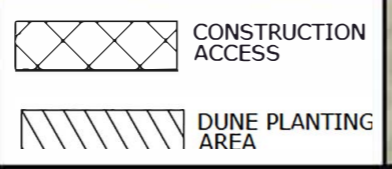
REVISIONS	DATE	DESCRIPTION

Designed by: CP	Checked by: DM
Drawn by: KC	Reviewed by: CP
Date: 07/16/20	Submitted by: CP
Lot Scale:	Drawn No.:

Update Plans 2017 - Sector 3 - W02 - Design and Permitting - 01212017 - A/C - Construction - 31 - 4 - 01212017 - PV-03 - 2020 - 18112020 - 11/20/2020 - 18112020 - 11/20/2020



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 DOUGLAS W MANN, P.E. NO. 44046

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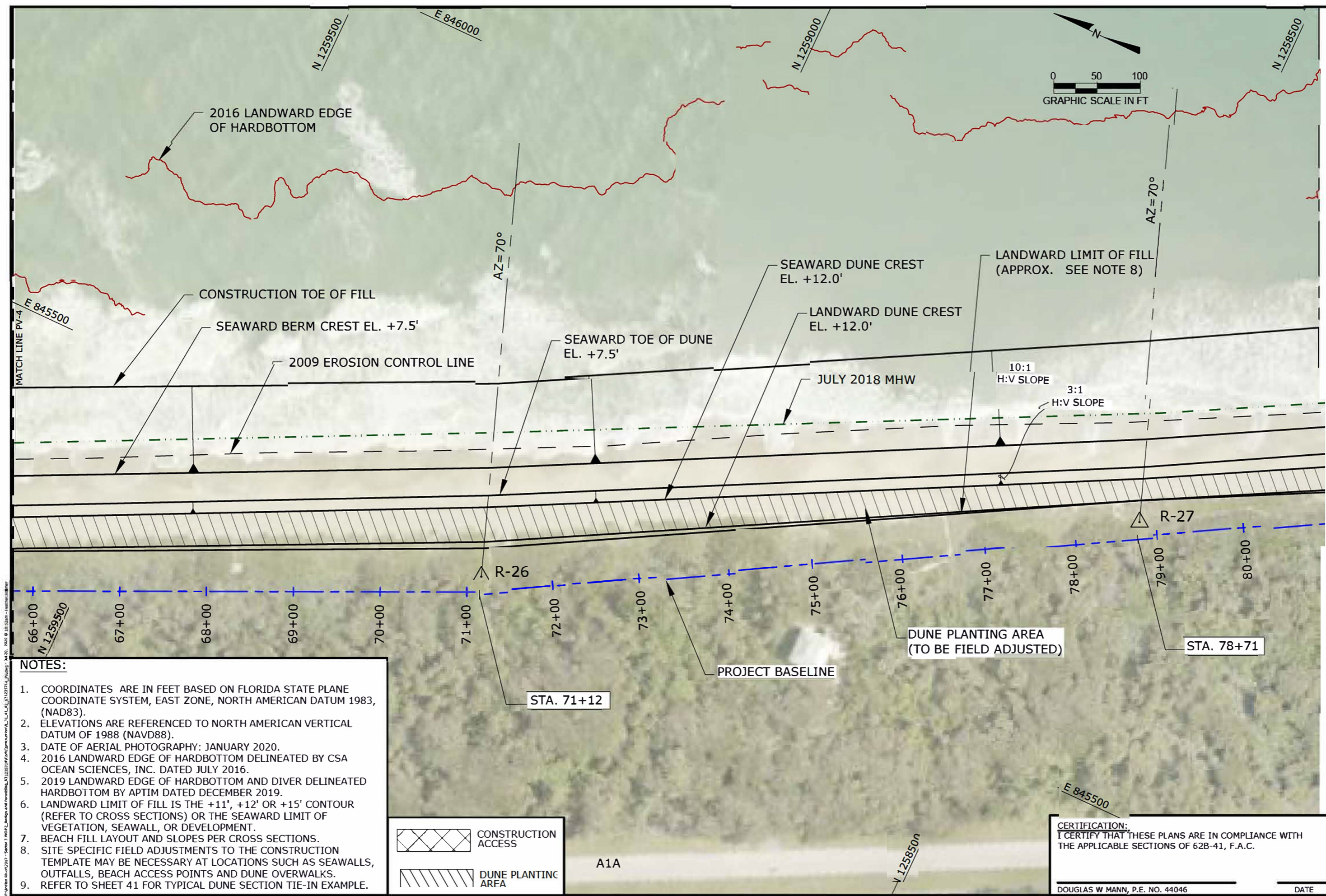
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Reviewed by:	CP
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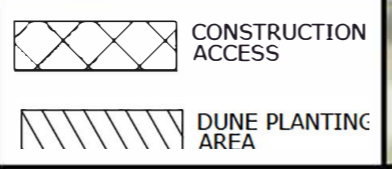
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.
PV-4

SHEET 11 OF 44



- NOTES:**
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A1A

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DOUGLAS W MANN, P.E. NO. 44046

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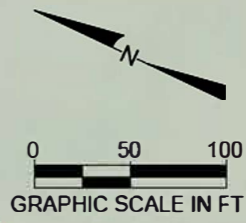
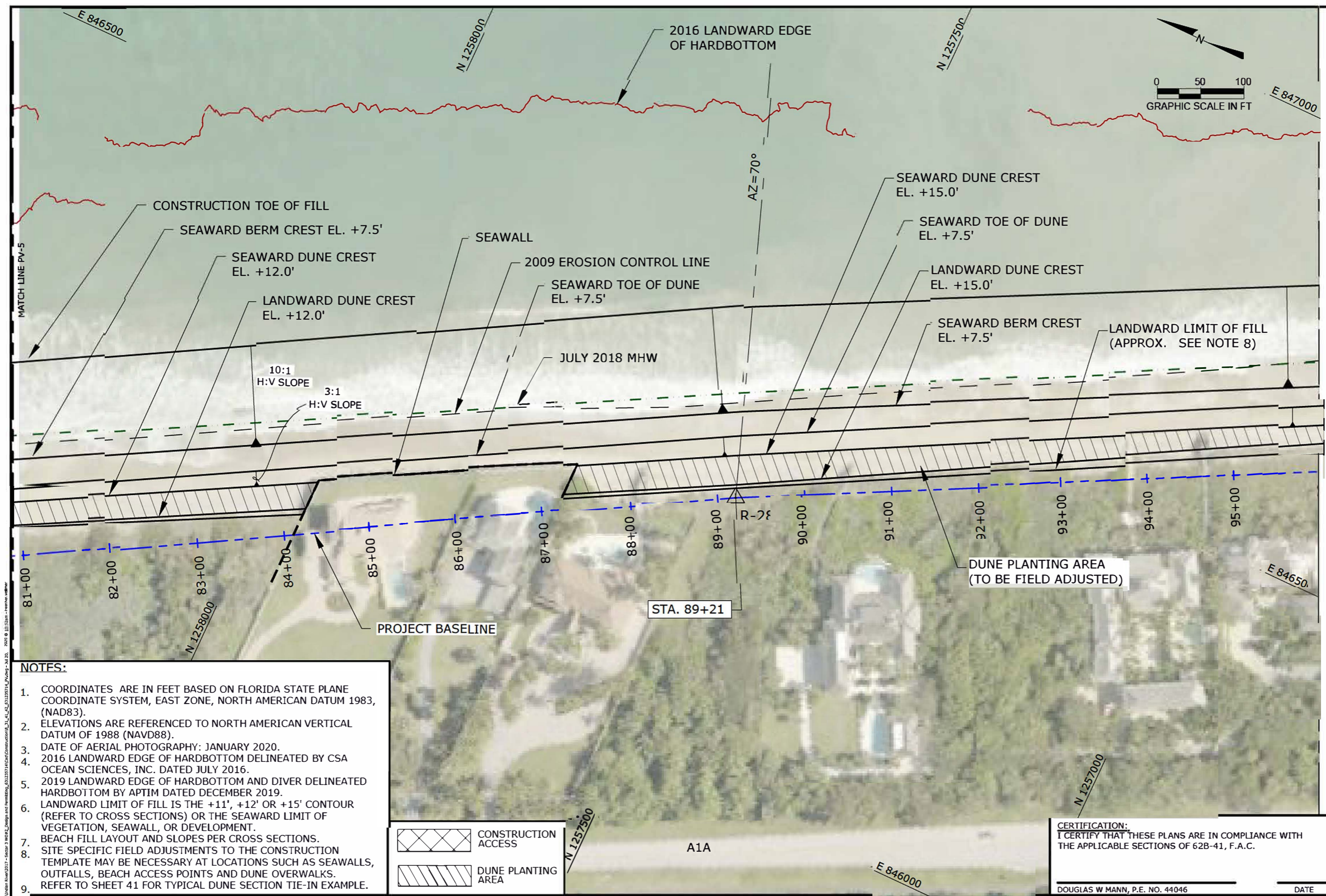
NO.	REVISIONS

Checked by: DM
 Drawn by: KC
 Date: 07/16/20
 Job No.: 631235714
 Scale:

Reference File:
 SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-5**

SHEET 12 OF 44



- NOTES:**
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 - SITE SPECIFIC FIELD ADJUSTMENTS TO THE CONSTRUCTION TEMPLATE MAY BE NECESSARY AT LOCATIONS SUCH AS SEAWALLS, OUTFALLS, BEACH ACCESS POINTS AND DUNE OVERWALKS.
 - REFER TO SHEET 41 FOR TYPICAL DUNE SECTION TIE-IN EXAMPLE.



CERTIFICATION:
 I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

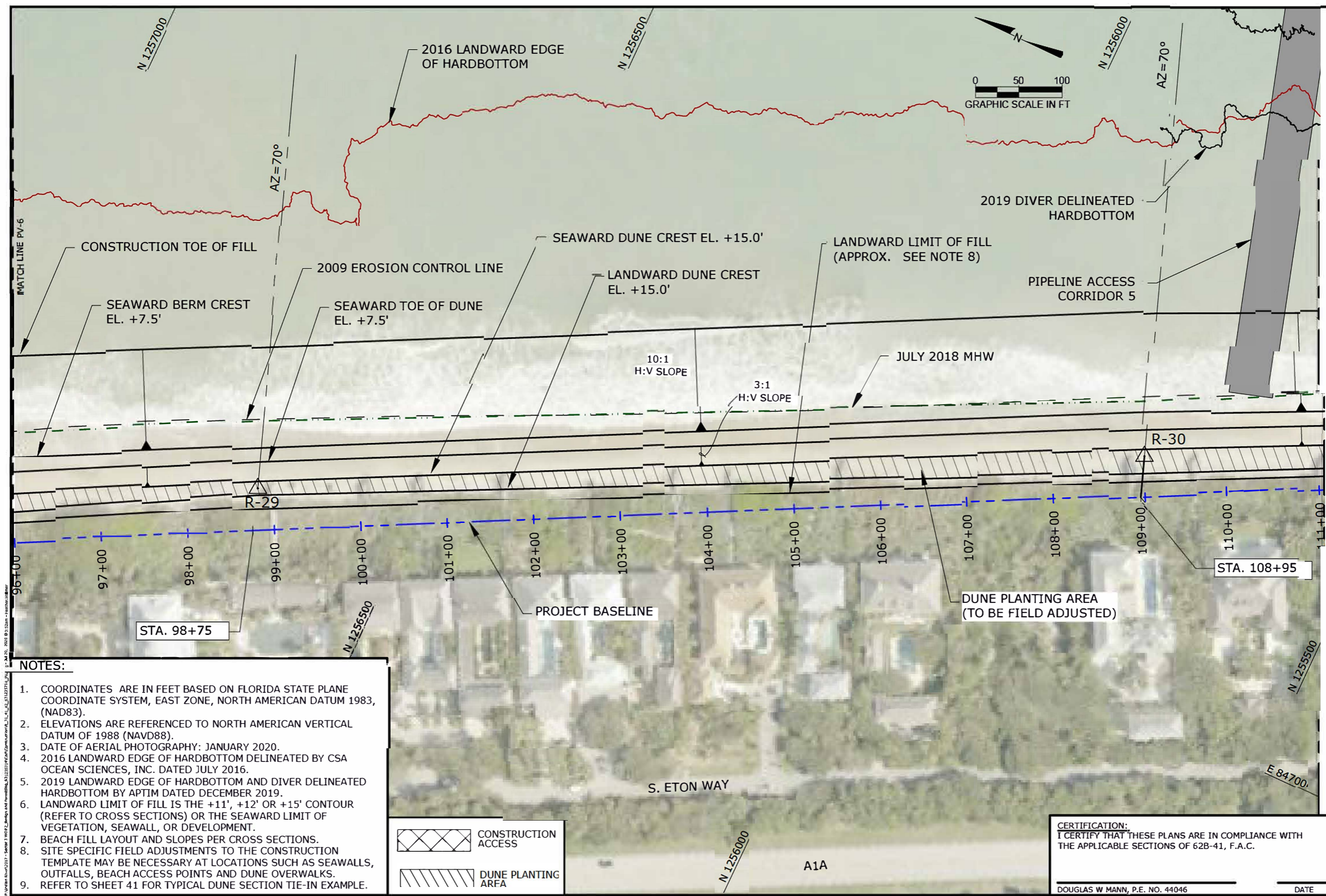
DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #9317

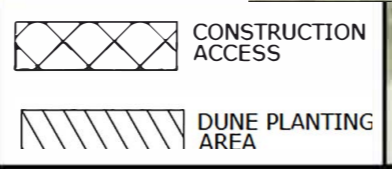
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 Drawn by: KC
 Date: 07/16/20
 Scale: as shown

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. PV-6
 SHEET 13 OF 44



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
 - ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - DATE OF AERIAL PHOTOGRAPHY: JANUARY 2020.
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DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

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 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
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 C.O.A. FL #9317

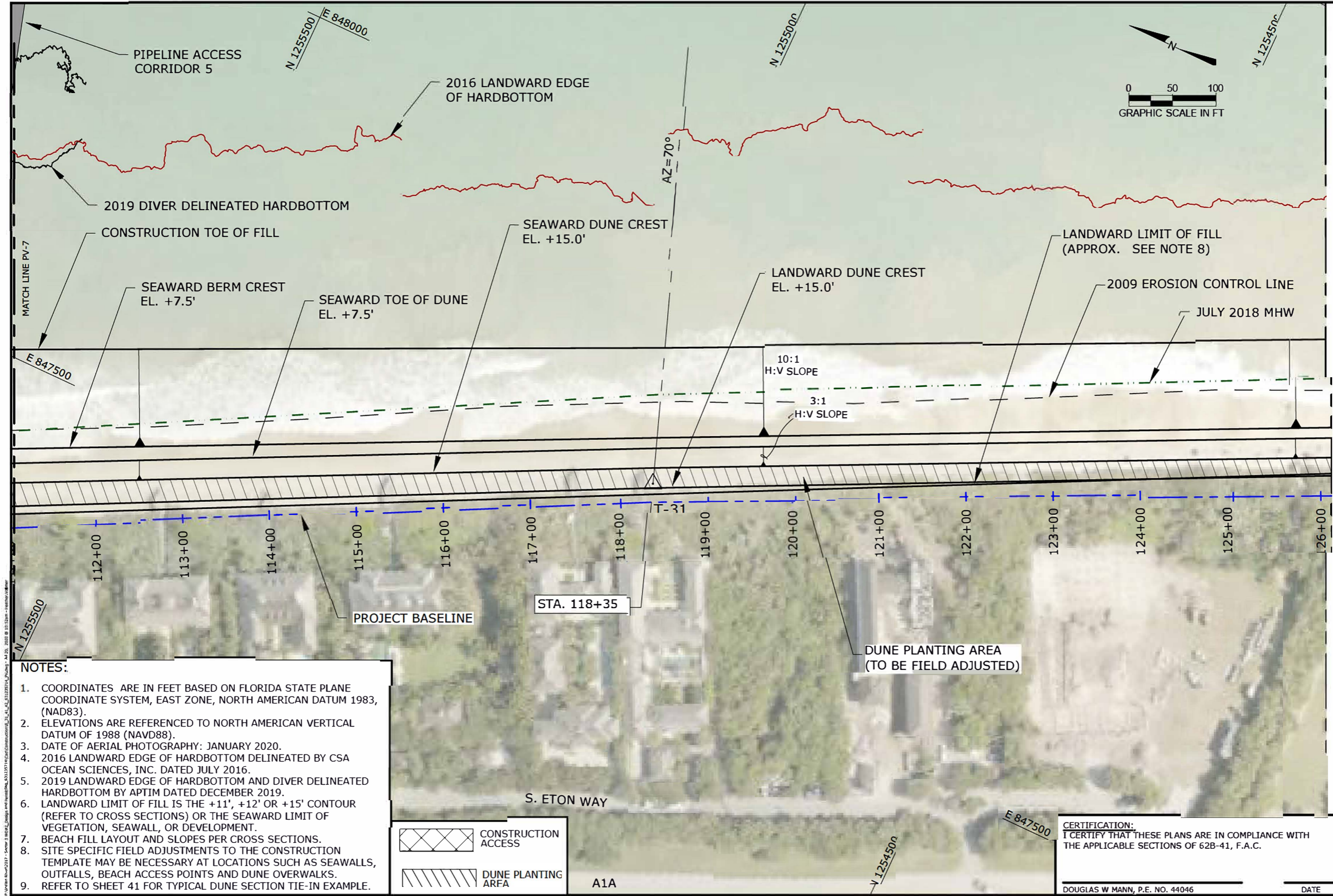
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 drawn by: KC
 date: 07/16/20
 lot/Scale: _____

Checked by: DM
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 submitted by: CP
 Form No.: _____

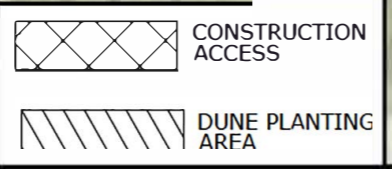
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.
PV-7

SHEET 14 OF 44



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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A1A

CERTIFICATION:
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DOUGLAS W MANN, P.E. NO. 44046

DATE

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #9317

2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

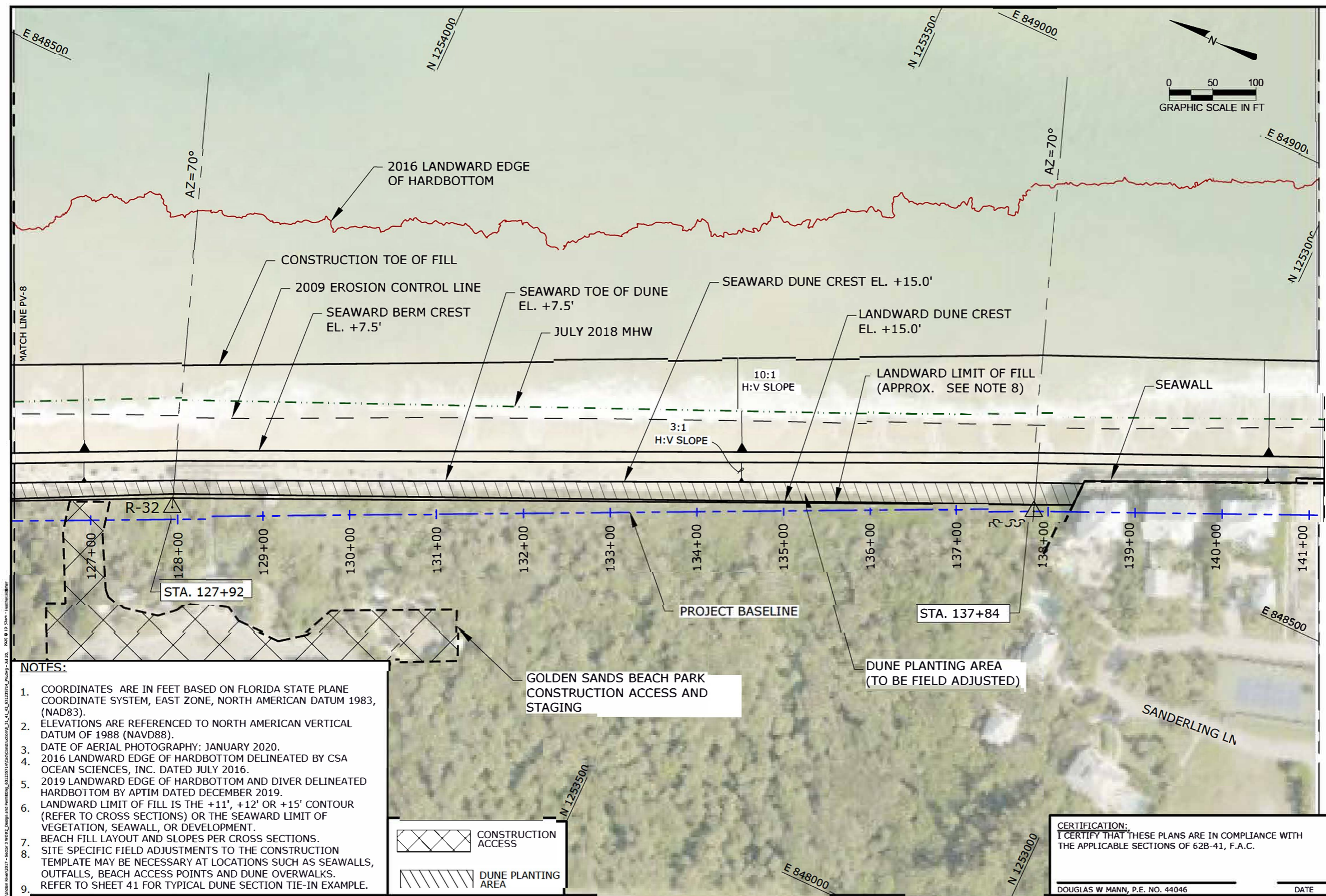
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	KC	
	Submitted by:	
	CP	
	Date:	04/16/20
	Comm. No.:	631235714
	Lot Scale:	

Reference File:

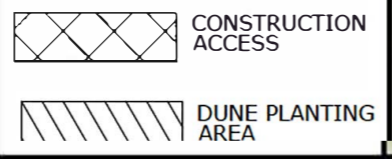
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.
PV-8

SHEET 15 OF 44



- NOTES:**
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DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

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 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
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 C.O.A. FL #9317

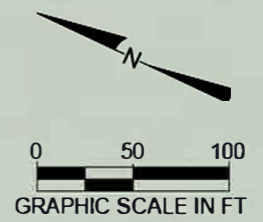
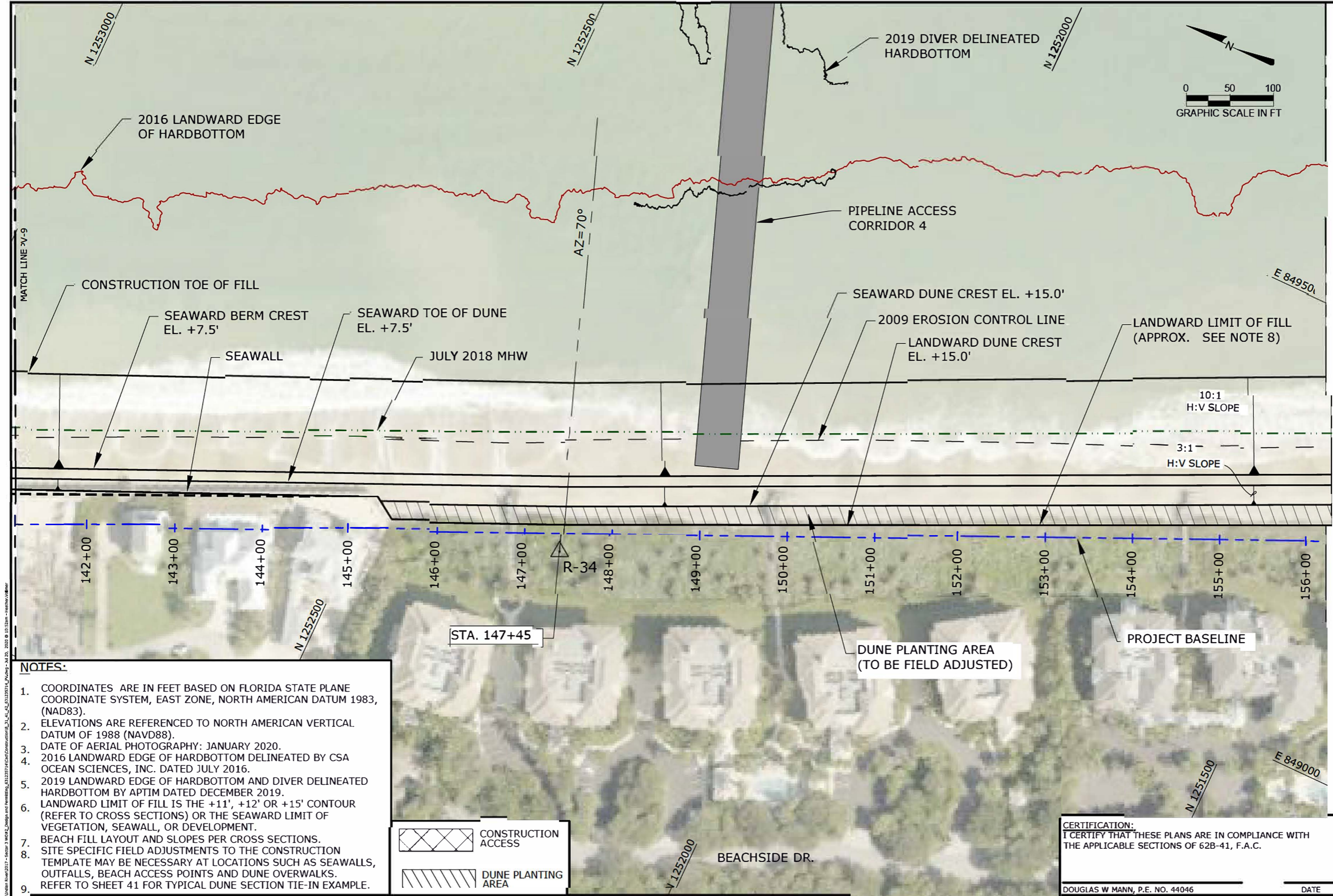
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Drawn by:	KC
Date:	07/16/20
Issued by:	CP
Form. No.:	

Reference File:

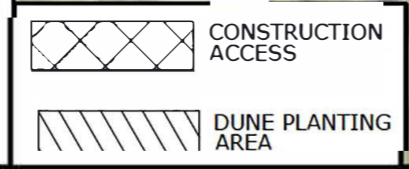
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-9**

SHEET 16 OF 44



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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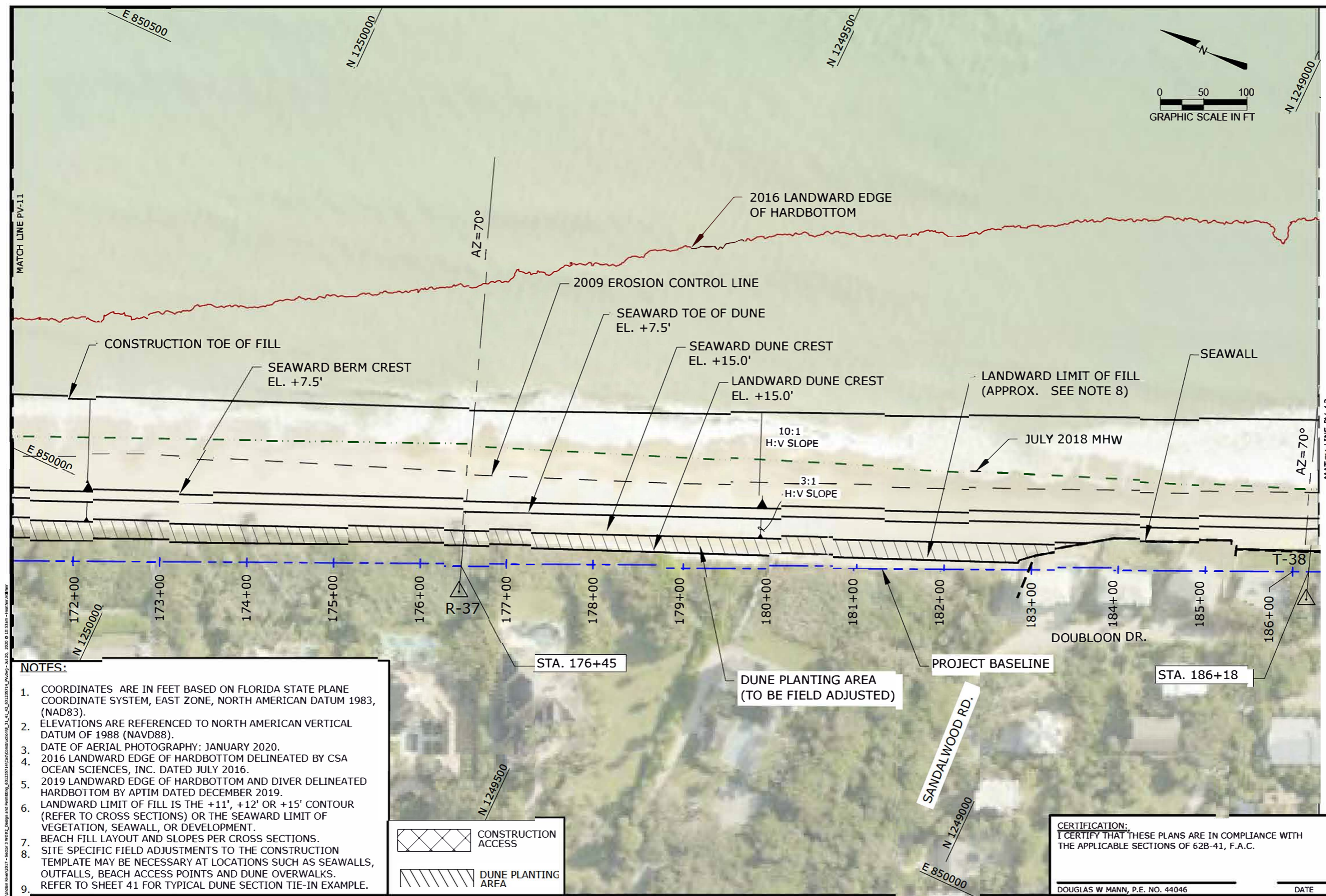
DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #9317

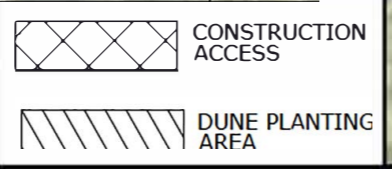
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-10**
 SHEET 17 OF 44

Checked by:	DM
Designed by:	CP
Drawn by:	KC
Date:	07/16/20
Issued by:	CP
Form. No.:	
Scale:	



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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 DOUGLAS W MANN, P.E. NO. 44046

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 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #93317

REVISIONS	DATE	DESCRIPTION

Checked by: DM	Reviewed by: CP	Submitted by: CP	Drawn by: CP
Designed by: CP	Reviewed by: KC	Submitted by: CP	Drawn by: CP
Date: 07/16/20	Scale: As Shown		

Reference File: _____

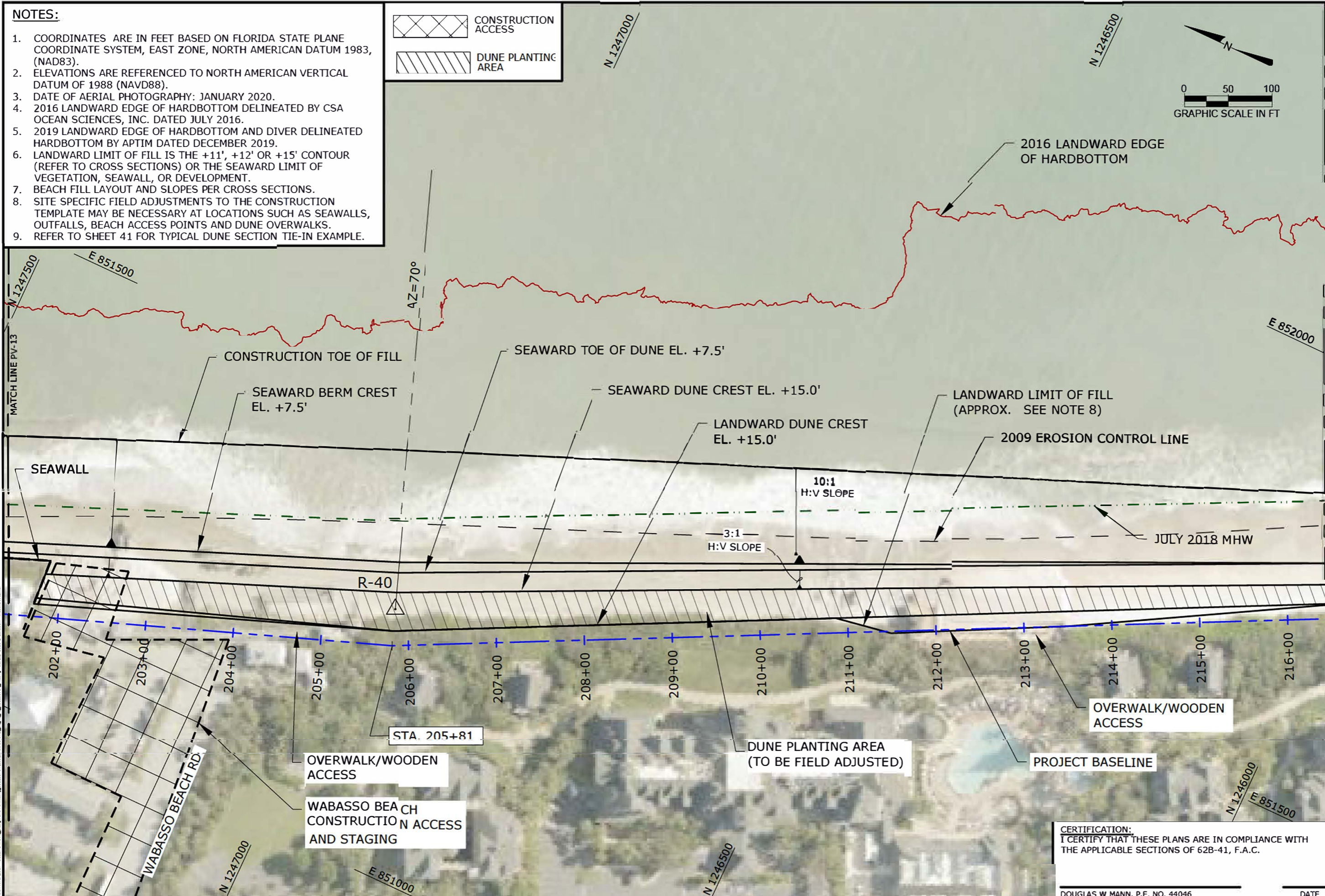
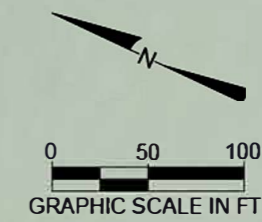
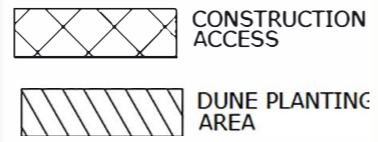
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-12**

SHEET 19 OF 44

NOTES:

- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 PH. (861) 391-8102
 FAX (861) 391-9116
 C.O.A. FL #9317

2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

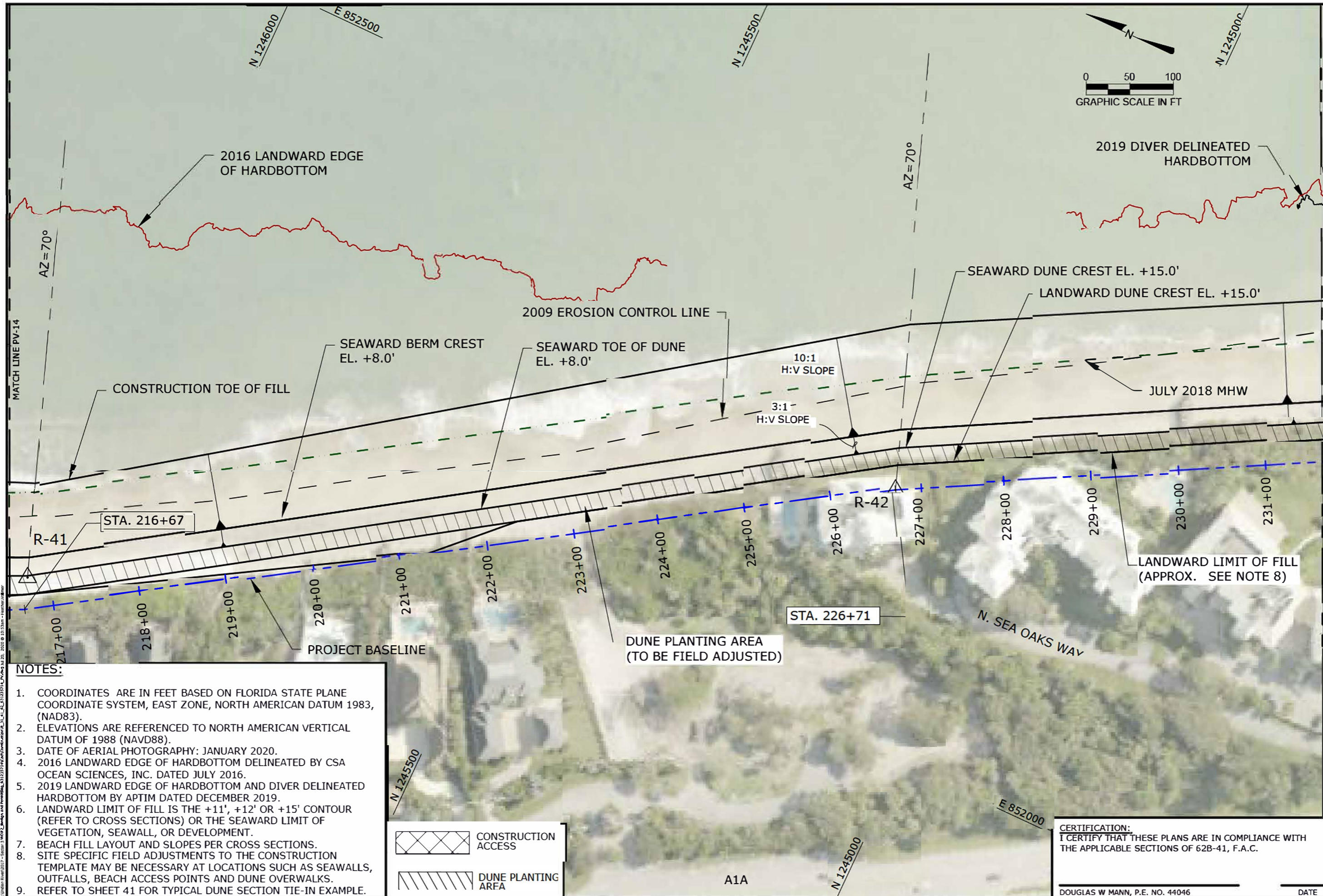
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Date:	07/16/20
Scale:	As Shown

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

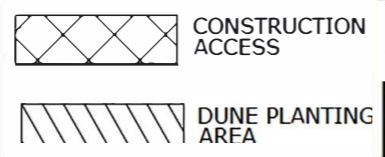
DRAWING NO. **PV-14**
 SHEET 21 OF 44

DOUGLAS W MANN, P.E. NO. 44046
 DATE

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- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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CERTIFICATION:
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DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

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 C.O.A. FL #9317

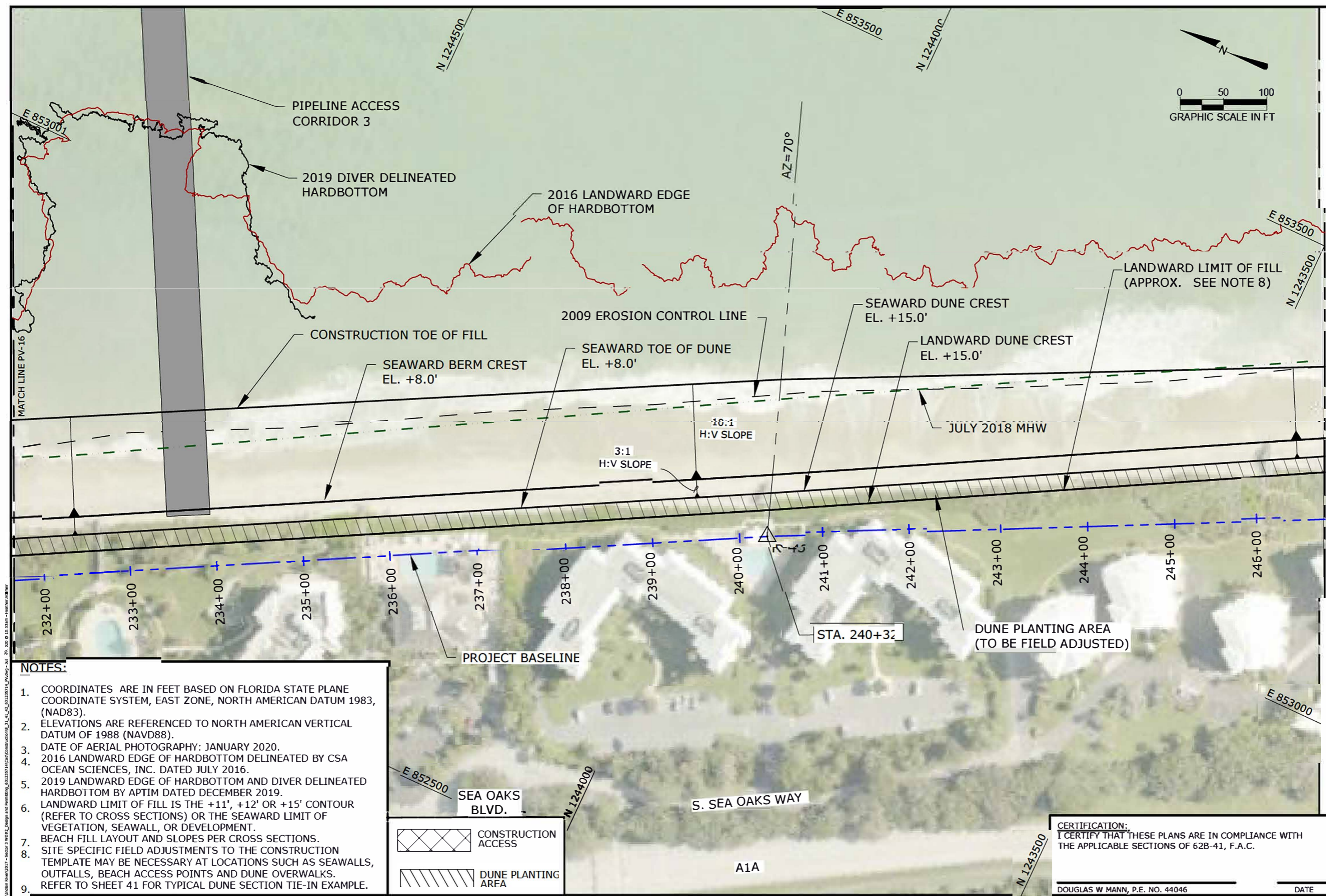
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Assigned by: CP					

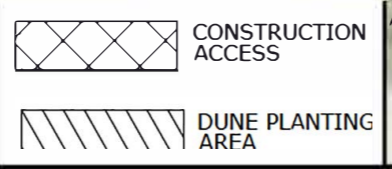
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SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-15**
 SHEET 22 OF 44



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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DOUGLAS W MANN, P.E. NO. 44046

DATE

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 C.O.A. FL #9317

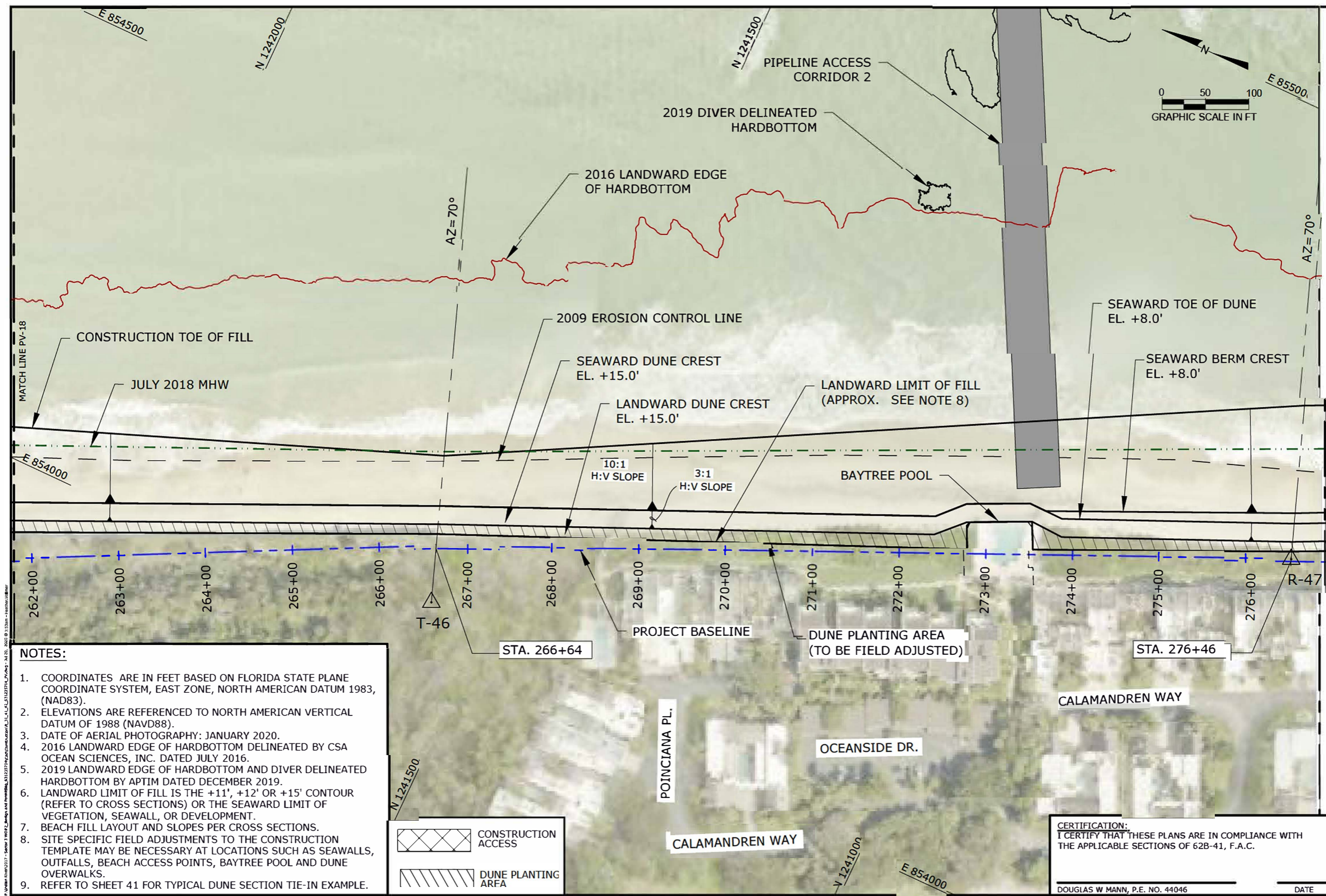
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Lot Scale:		Comm. No.:	

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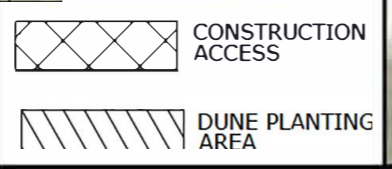
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. PV-16

SHEET 23 OF 44



- NOTES:**
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DOUGLAS W MANN, P.E. NO. 44046

DATE

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 C.O.A. FL #9317

2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

Checked by:	DM
Reviewed by:	CP
Designed by:	KC
Drawn by:	CP
Submitted by:	00710720
Comm. No.:	lot Scale

Reference files:

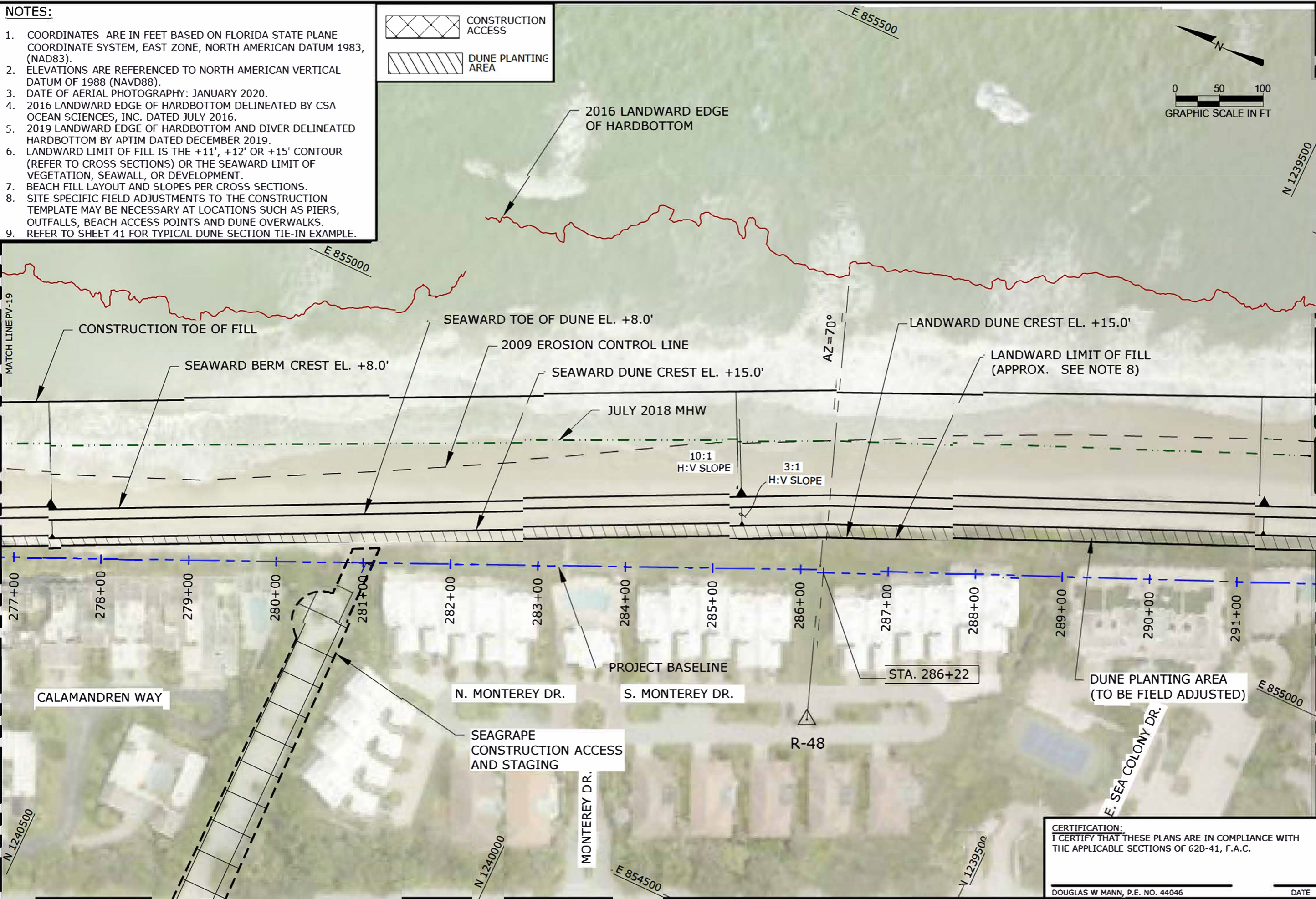
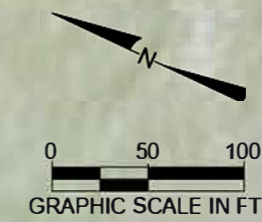
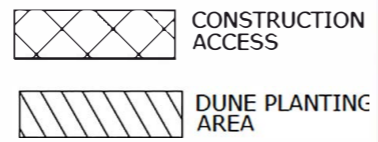
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-18**

SHEET 25 OF 44

NOTES:

- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

REVISIONS	No.	Date	Description

Checked by:	DM
Reviewed by:	GP
Submitted by:	GP
AS NOTED	63123571-4

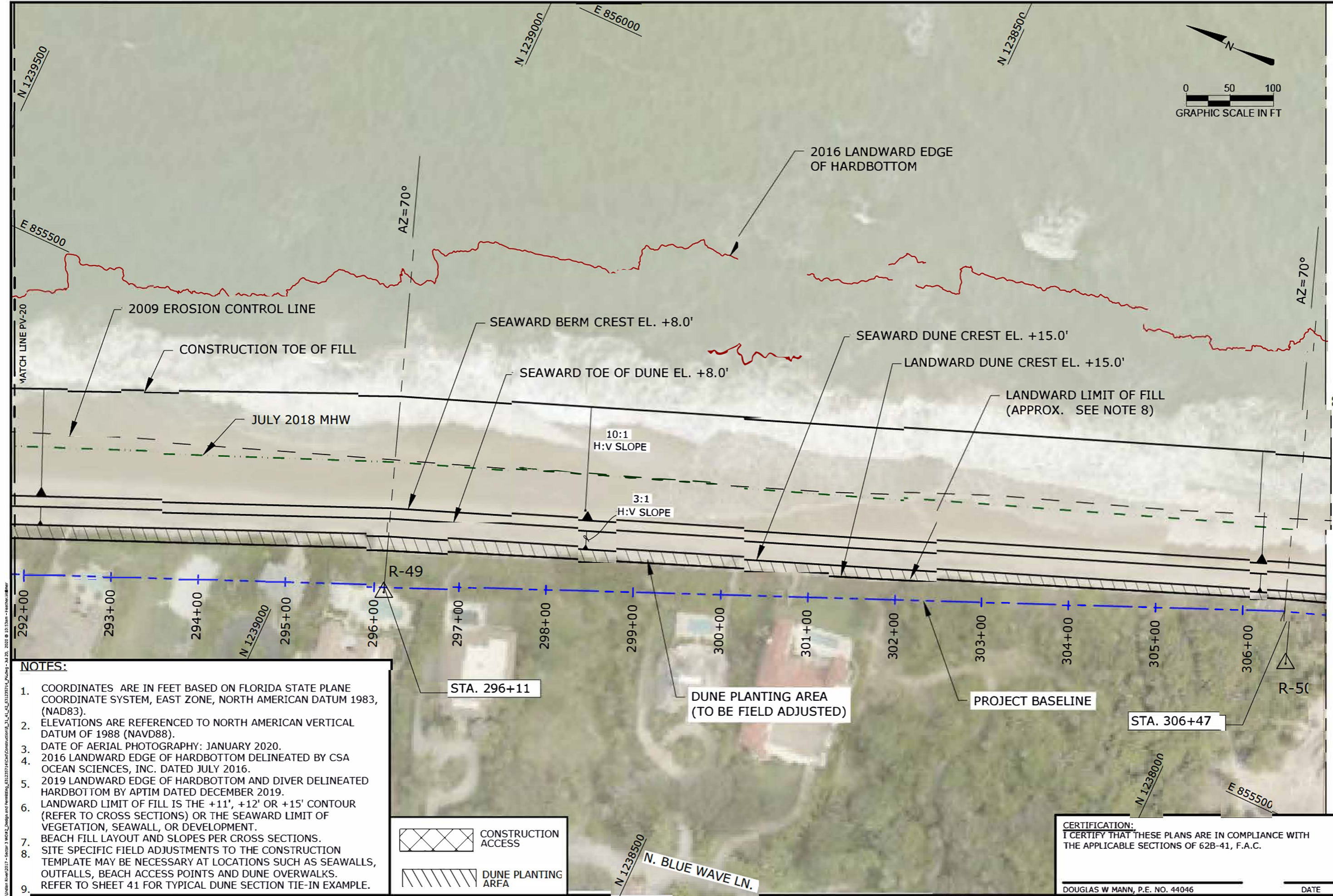
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

CERTIFICATION:
 I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH
 THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

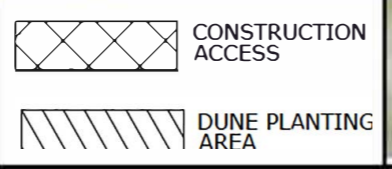
DOUGLAS W MANN, P.E. NO. 44046
 DATE

DRAWING NO.
PV-19
 SHEET 26 OF 44

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- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
 - ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - DATE OF AERIAL PHOTOGRAPHY: JANUARY 2020.
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 - REFER TO SHEET 41 FOR TYPICAL DUNE SECTION TIE-IN EXAMPLE.



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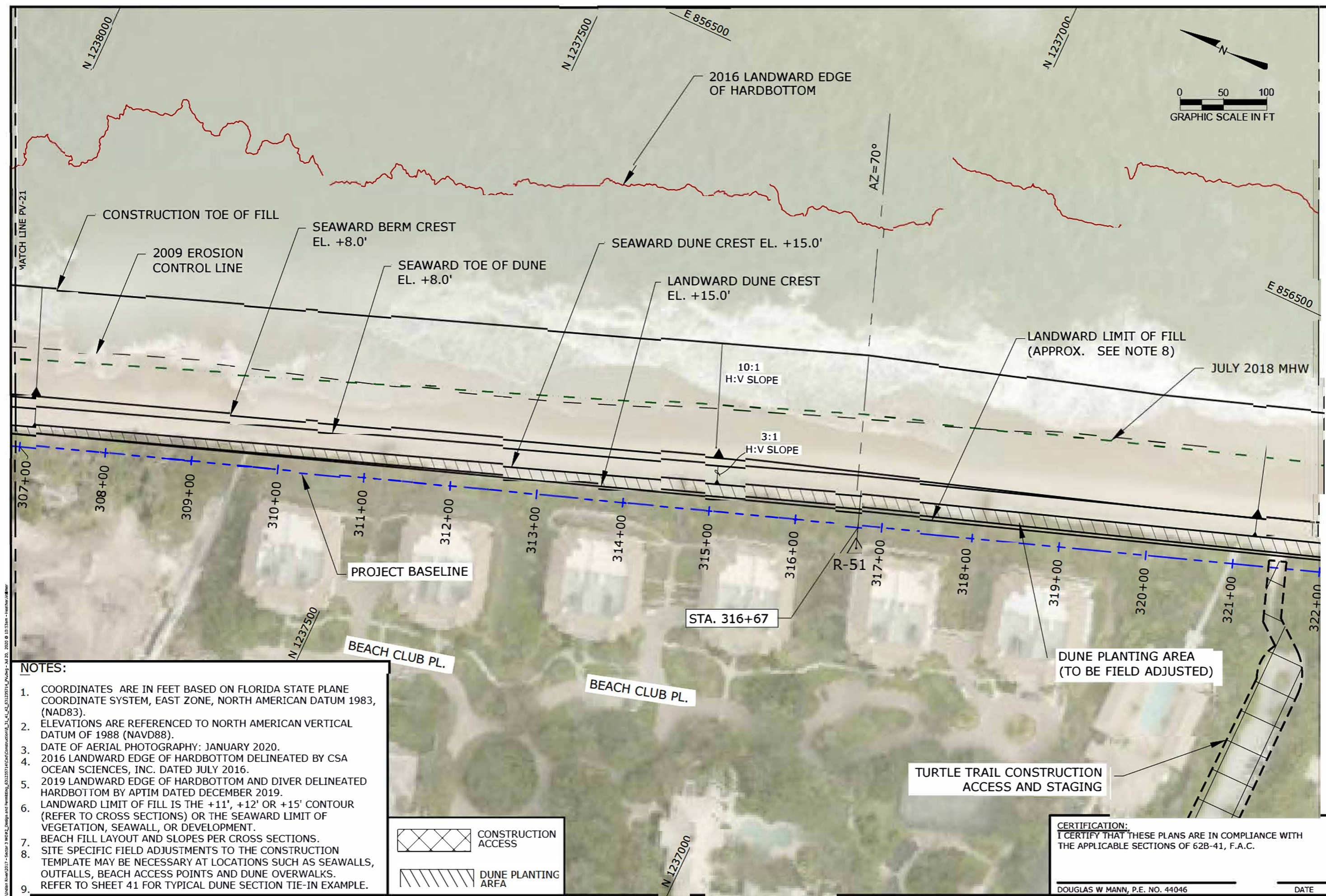
DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #9317

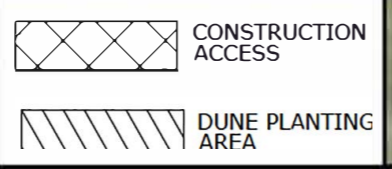
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Drawn by:	Submitted by:	CP
KC	CP	
Date:	07/10/20	
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SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-20**
 SHEET 27 OF 44



- NOTES:**
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 DOUGLAS W MANN, P.E. NO. 44046

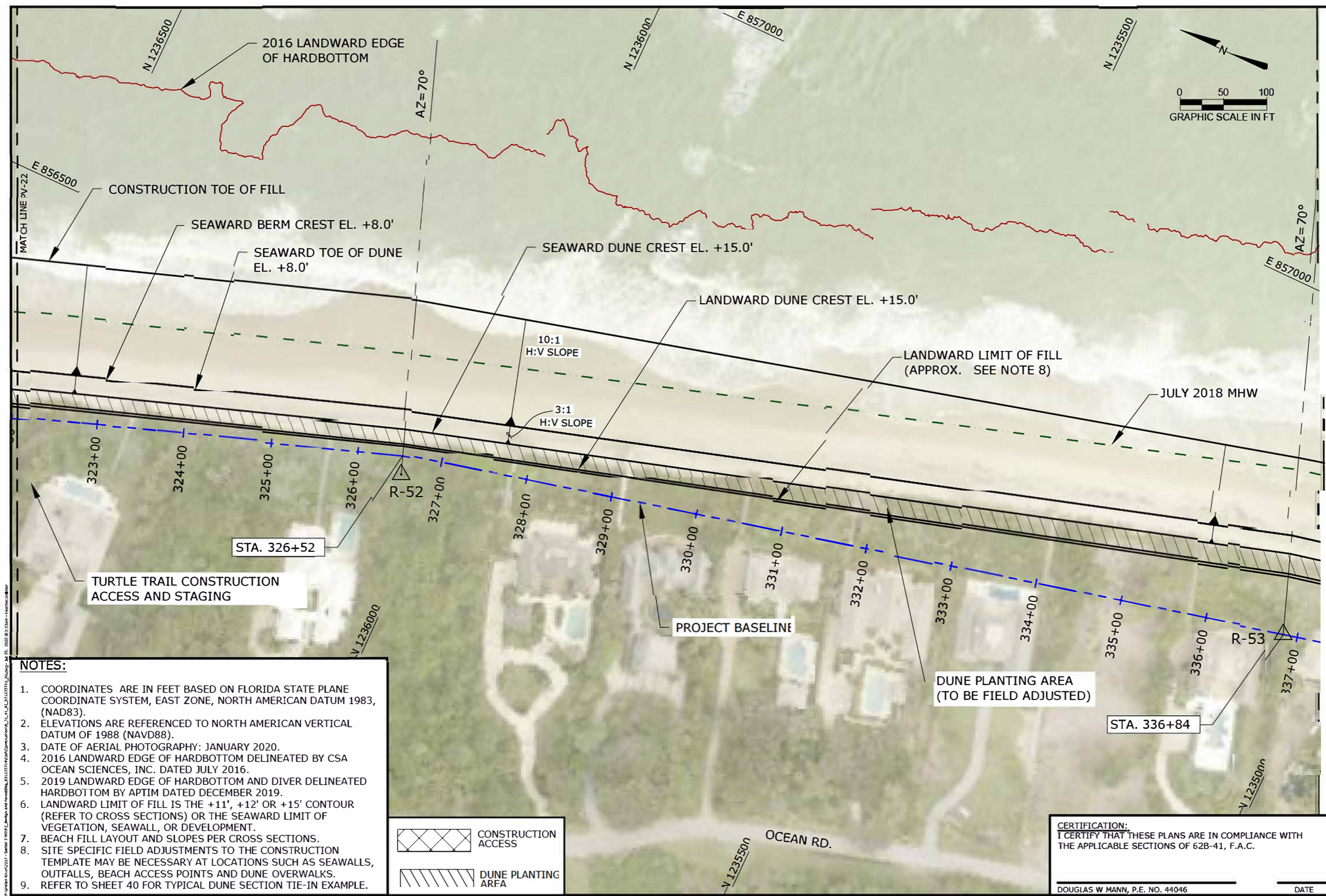
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APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
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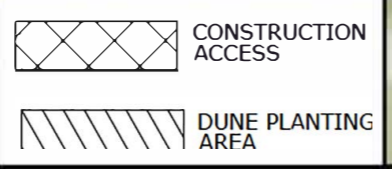
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Reviewed by:	CP
Designed by:	KC
Date:	07/16/20
Job No.:	

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-21**
 SHEET 28 OF 44



- NOTES:**
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DOUGLAS W MANN, P.E. NO. 44046 _____ DATE _____

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 C.O.A. FL #9317

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 BOCA RATON, FLORIDA 33431

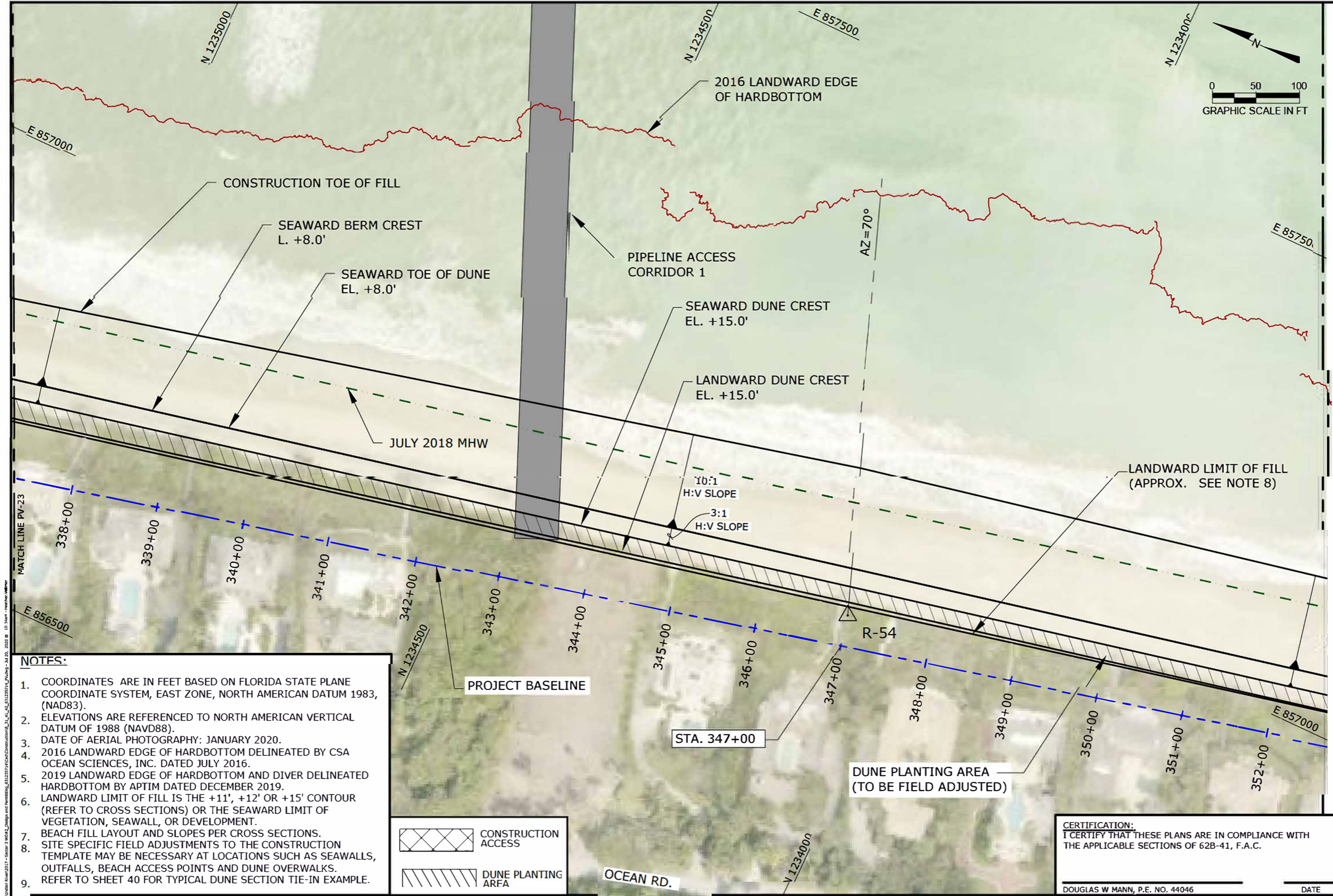
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Reviewed by:	CP
Designed by:	KC
Date:	07/16/20
Scale:	As Shown

Reference files:

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-22**

SHEET 29 OF 44



- NOTES:**
- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983, (NAD83).
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 DOUGLAS W MANN, P.E. NO. 44046

 DATE

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 FAX (861) 391-9116
 C.O.A. FL #9317

2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

MATCH LINE PV-23

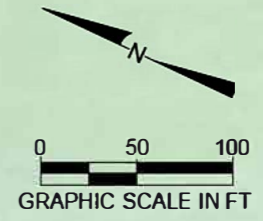
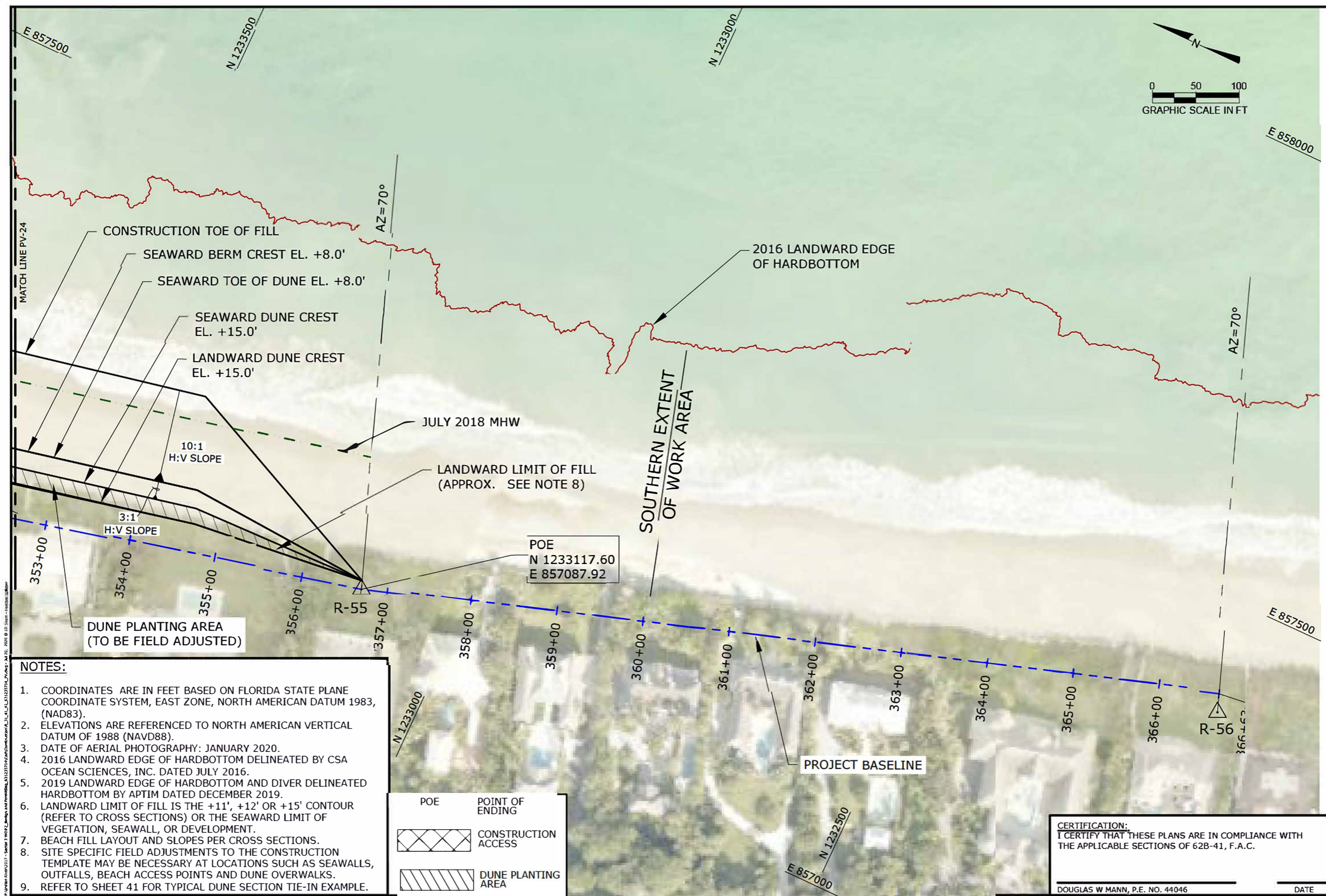
MATCH LINE PV-25

Checked by:	DM
Reviewed by:	CP
Designed by:	KC
Date:	07/16/20
Form No.:	

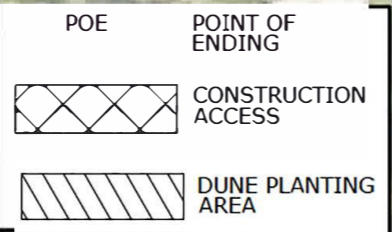
SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.
PV-23

SHEET 30 OF 44



- NOTES:**
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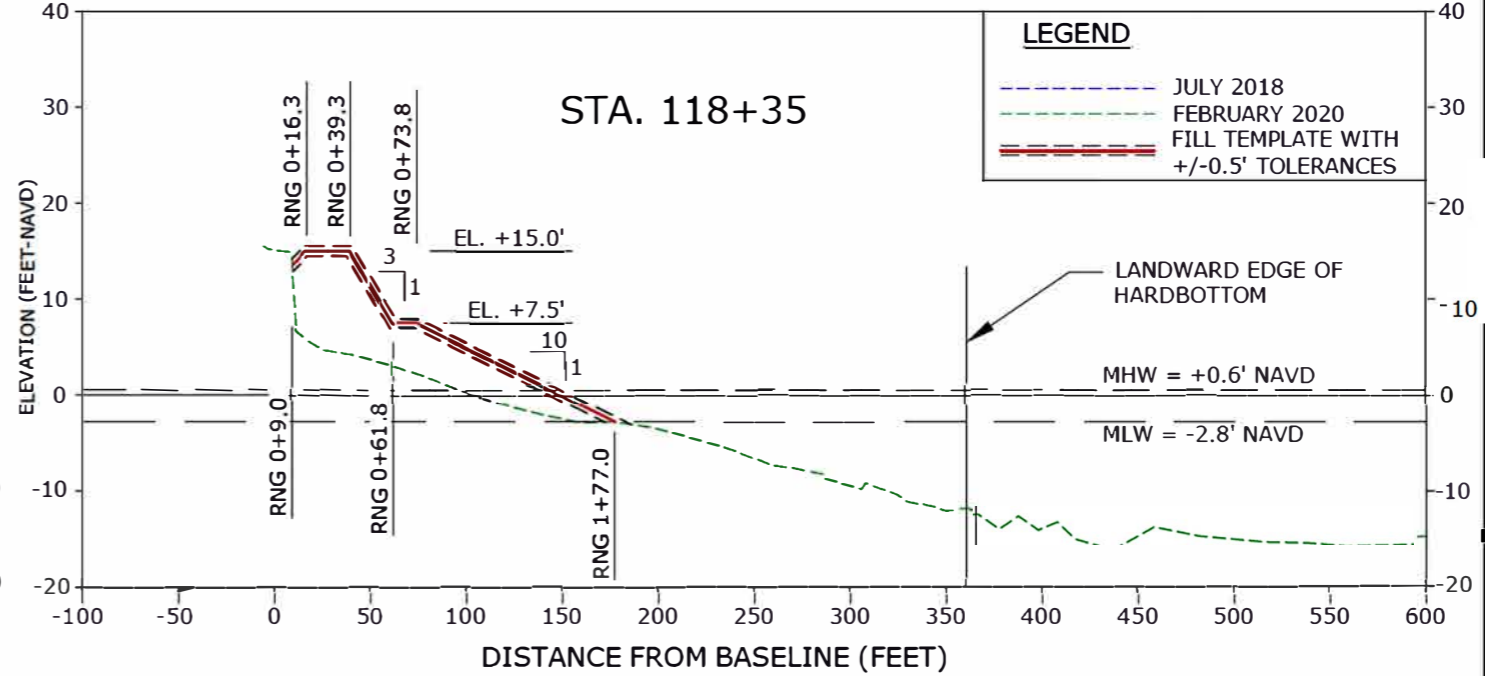
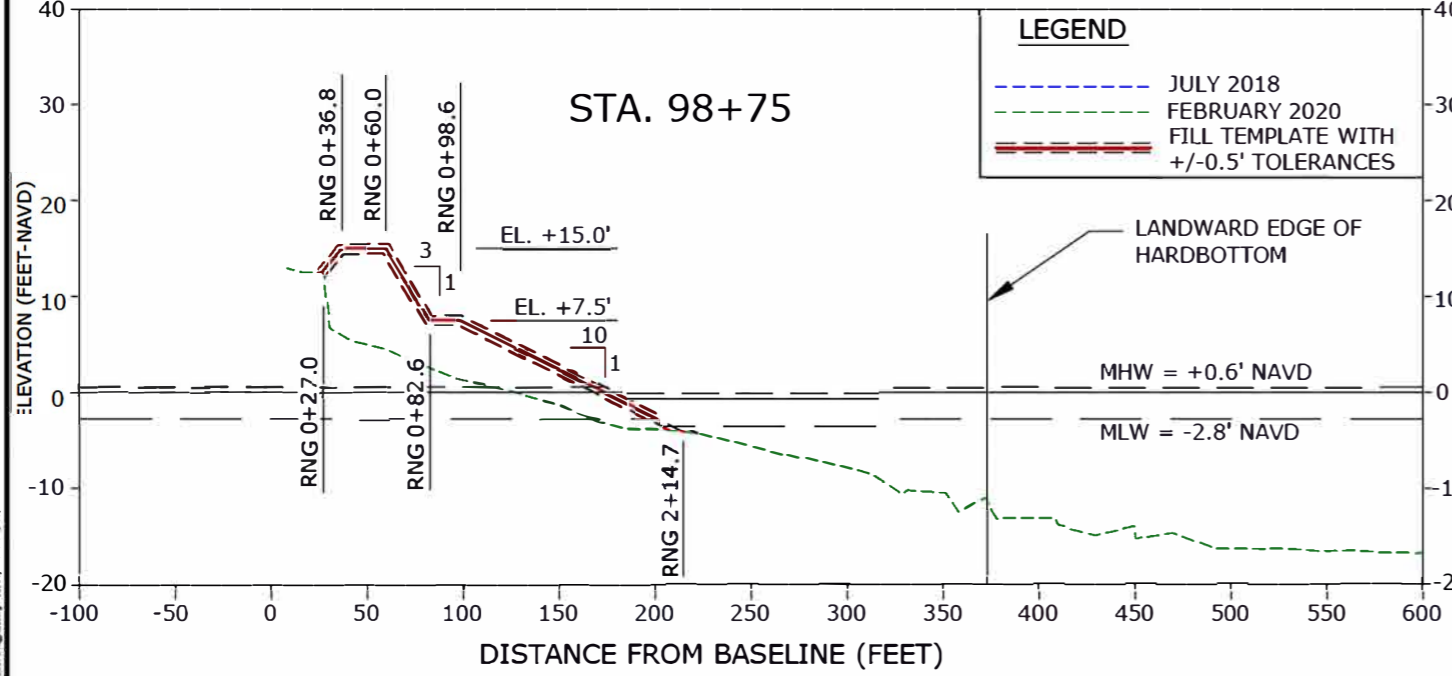
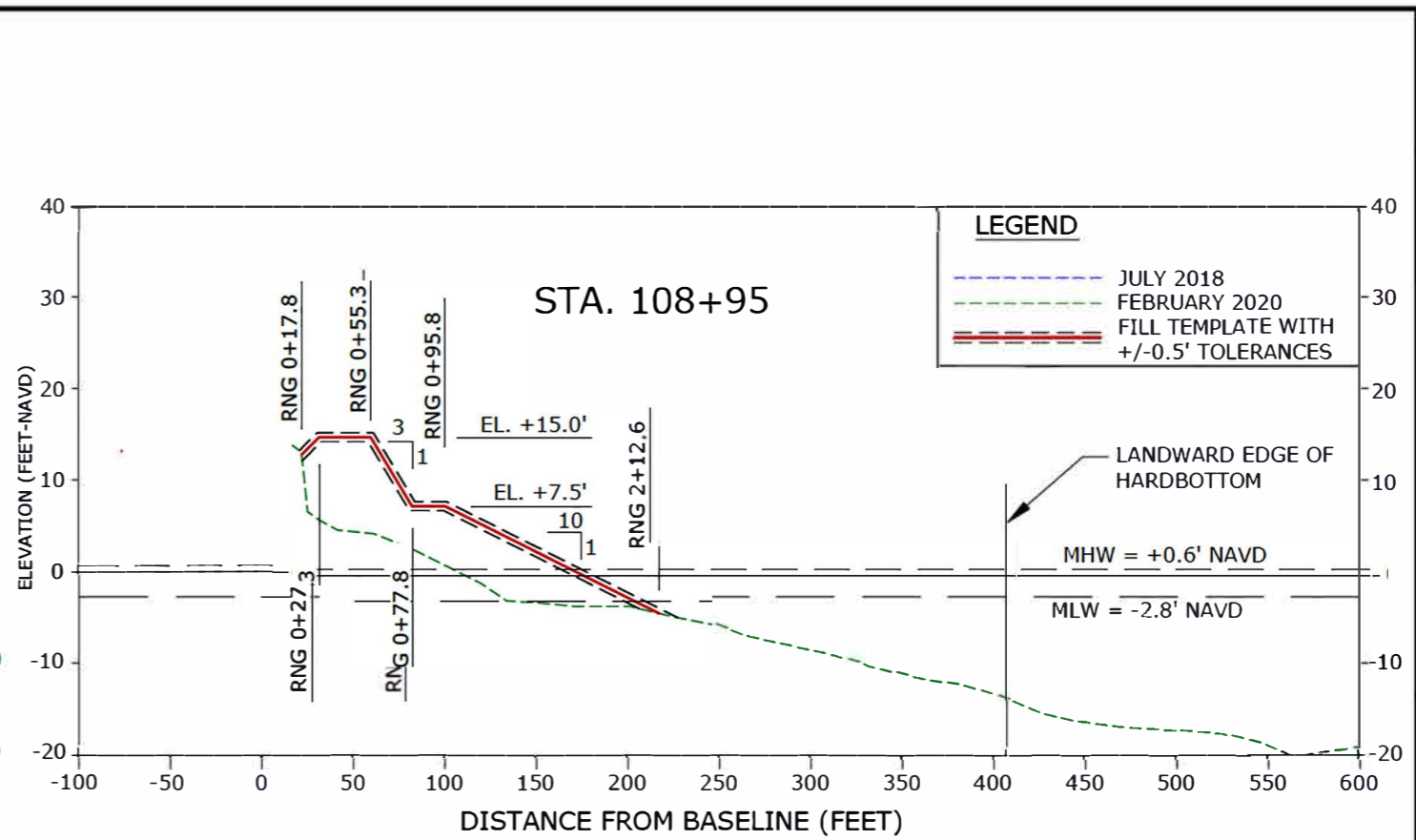
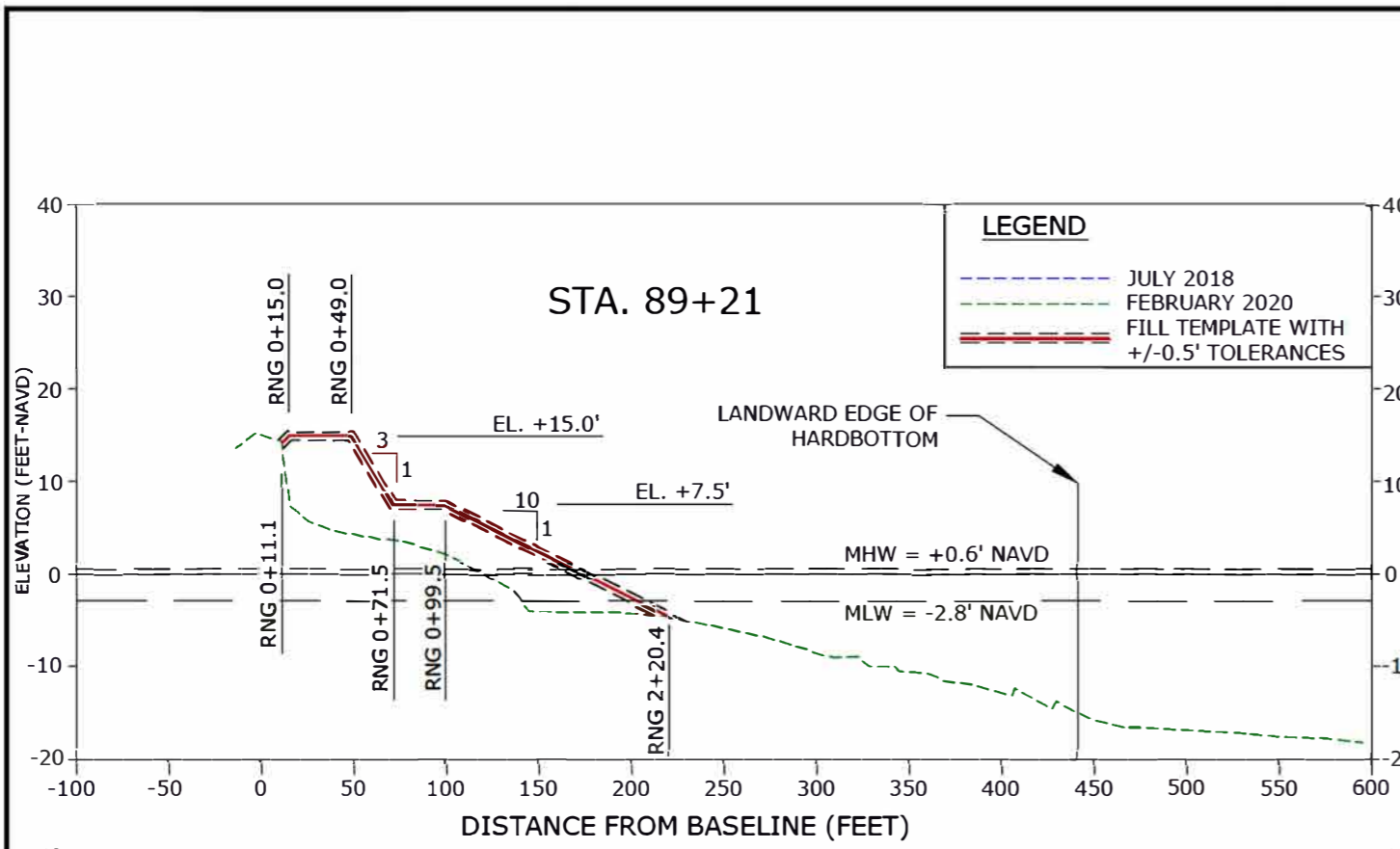
APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX (561) 391-9116
 C.O.A. FL #9317

REVISIONS	DESIGNED BY	CHECKED BY	DATE
	CP	DM	
	KC	CP	

Reference files:
 Design No.:
 Scale:

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **PV-24**
 SHEET 31 OF 44



NOTES:

- ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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DOUGLAS W. M. AN, P.E., NO. 44046

D A T E

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2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431

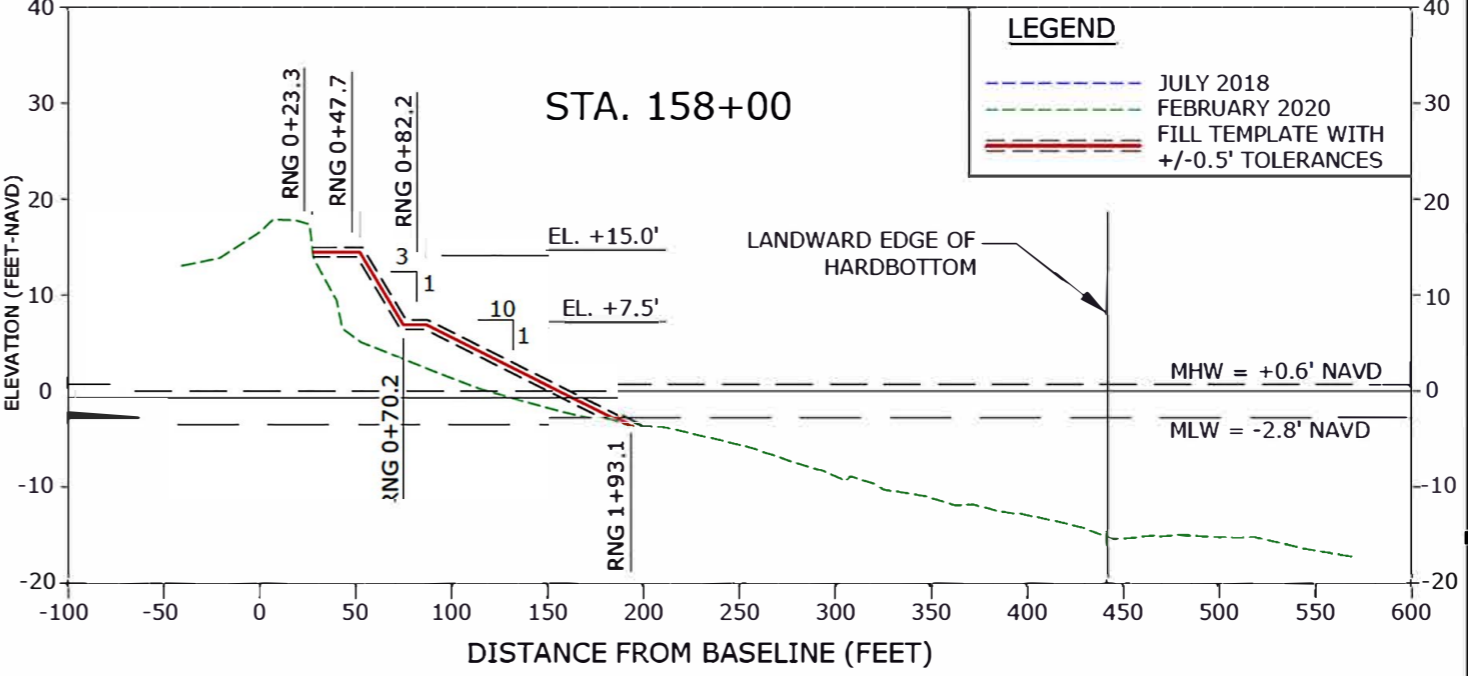
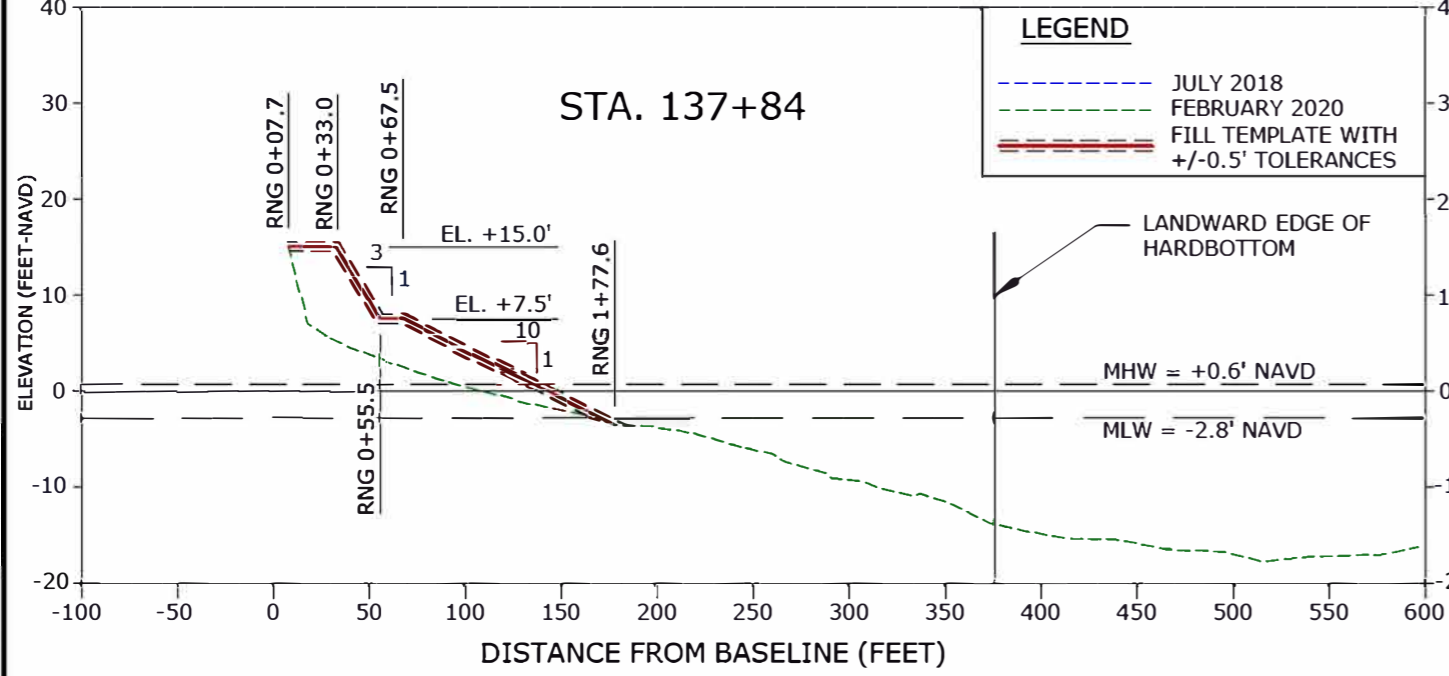
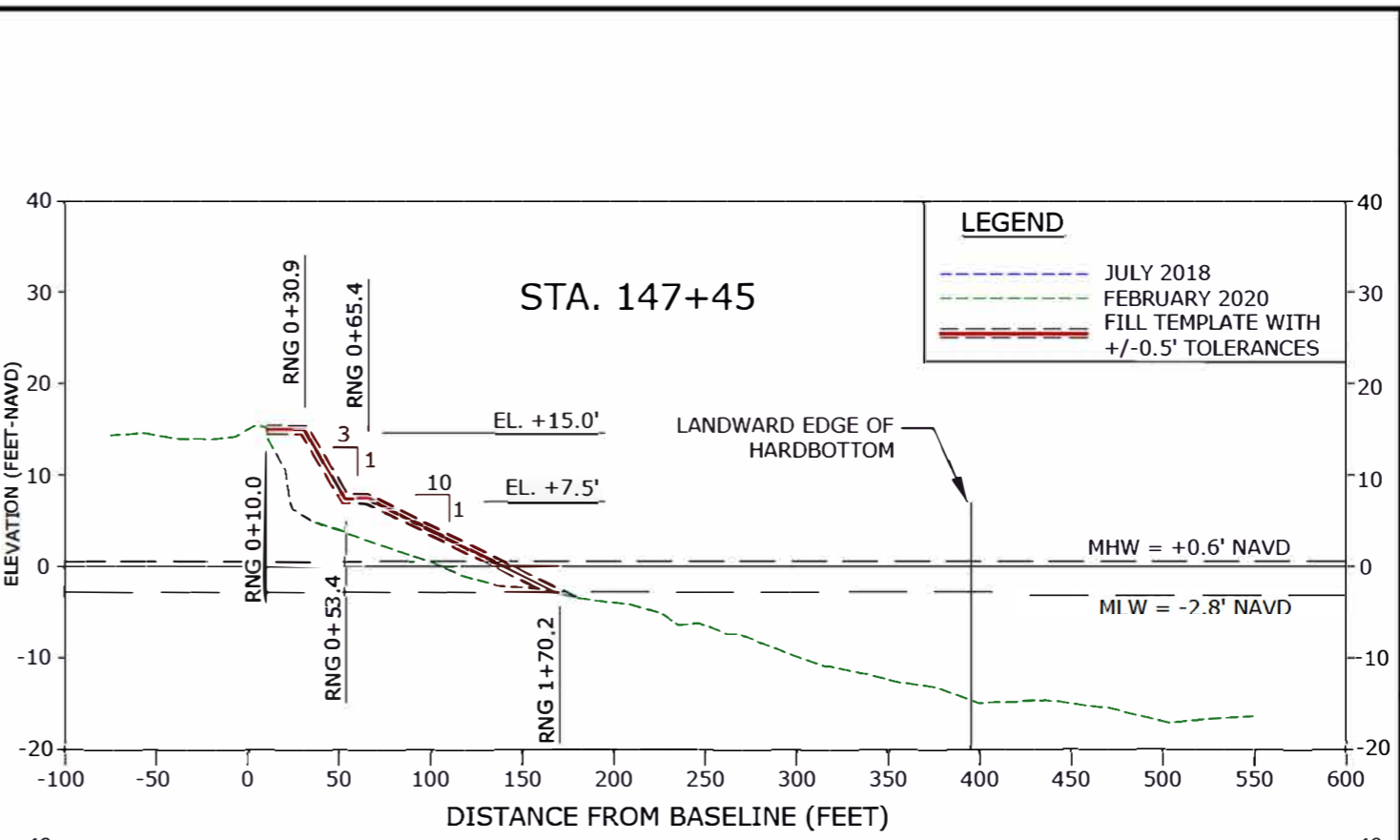
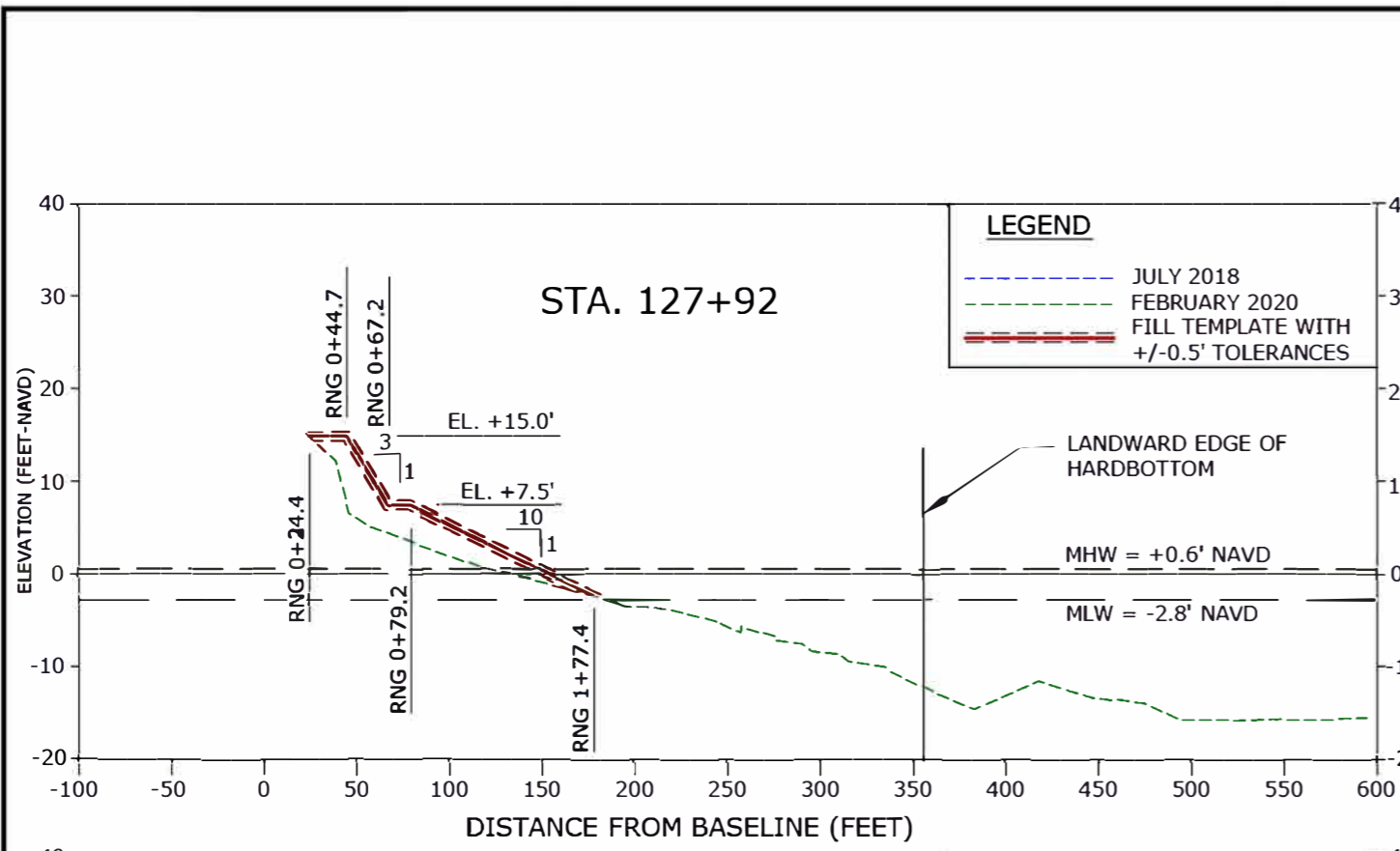
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	DM	RC	04/16/20	CP	AS NOTED

SECTOR 3
BEACH AND DUNE RENOURISHMENT PROJECT
CONSTRUCTION PLANS
INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.

XS-3

SHEET 34 OF 44



NOTES:

- ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431

REVISIONS	No.	Date	Description

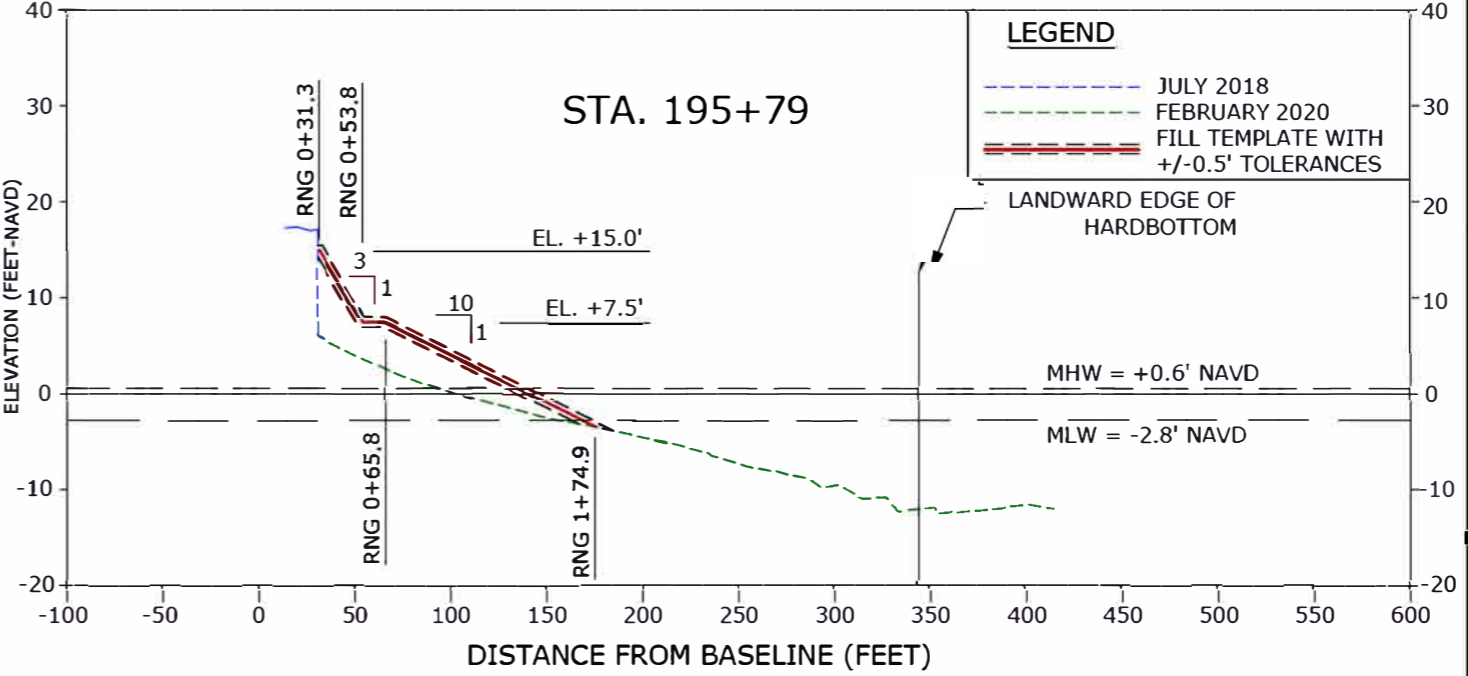
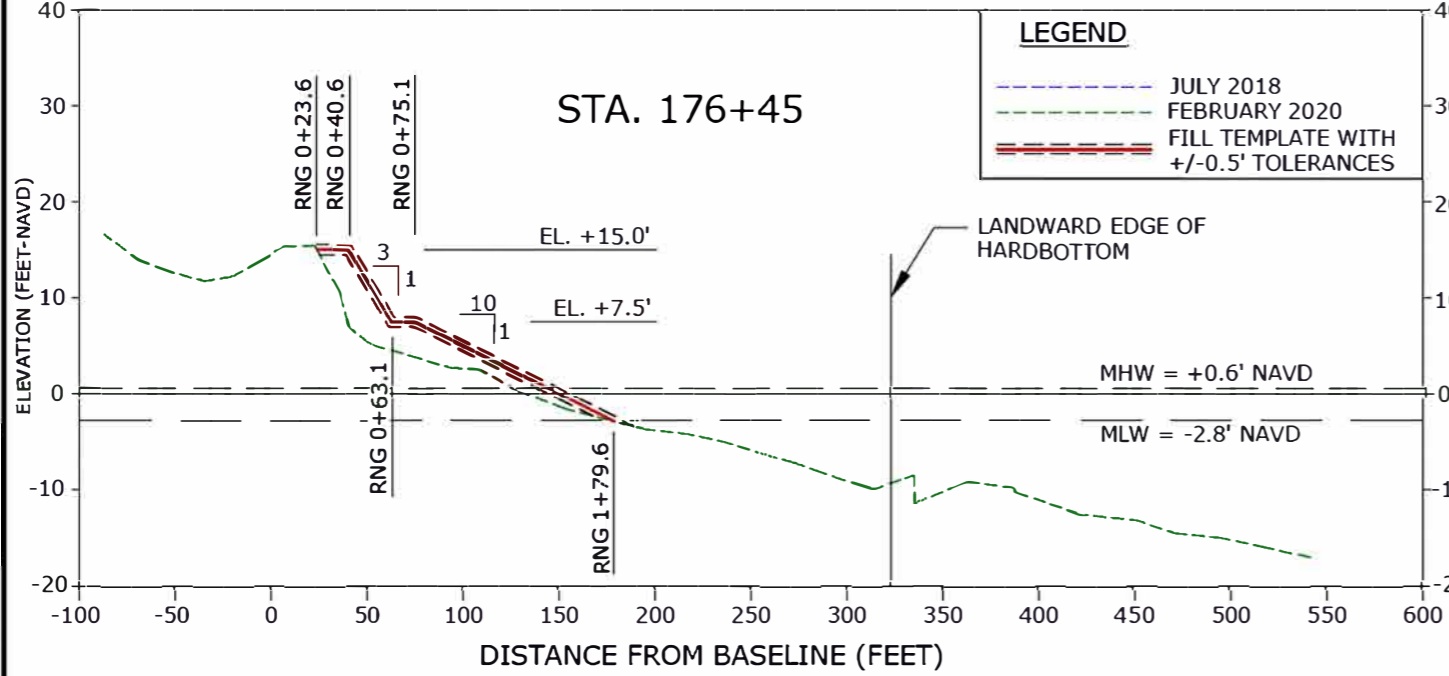
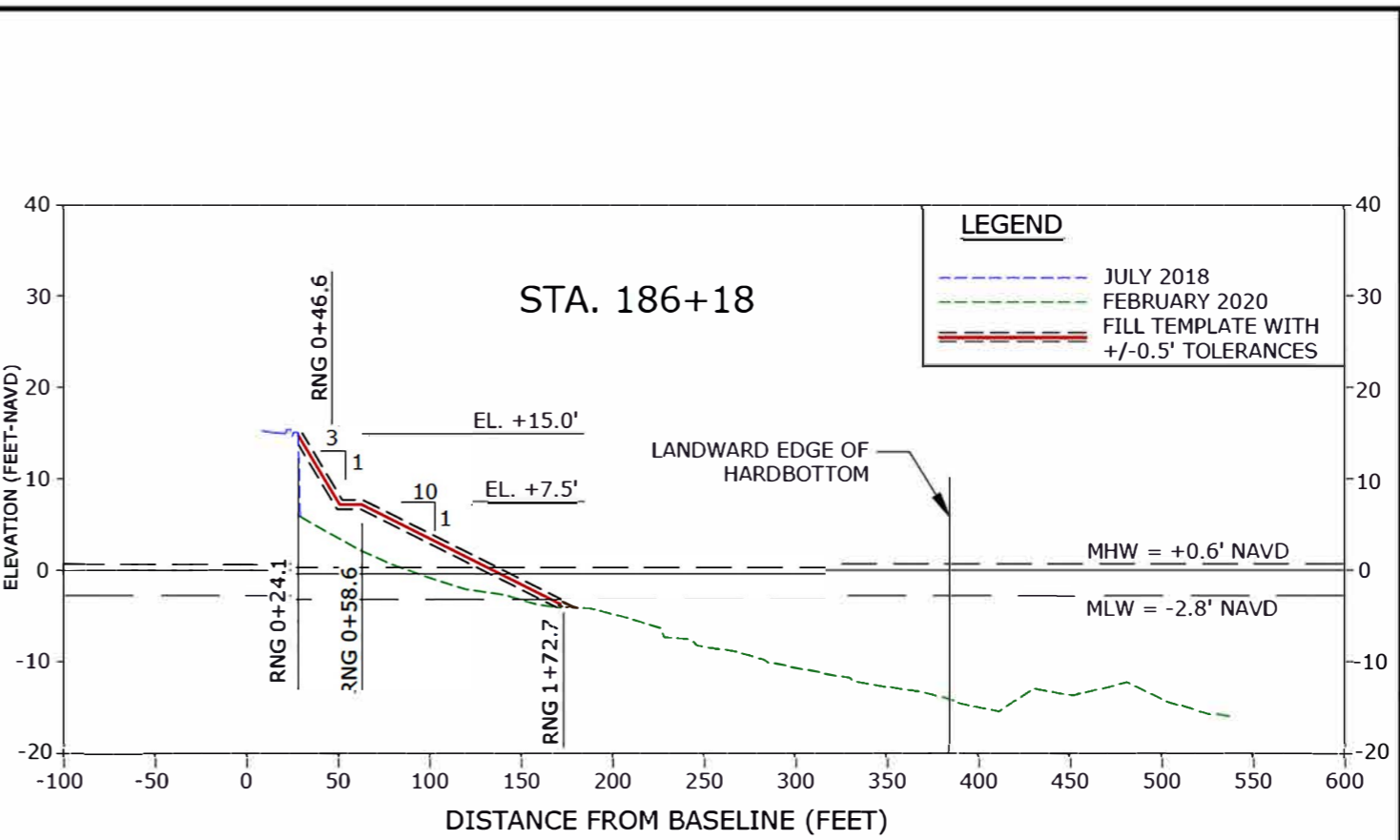
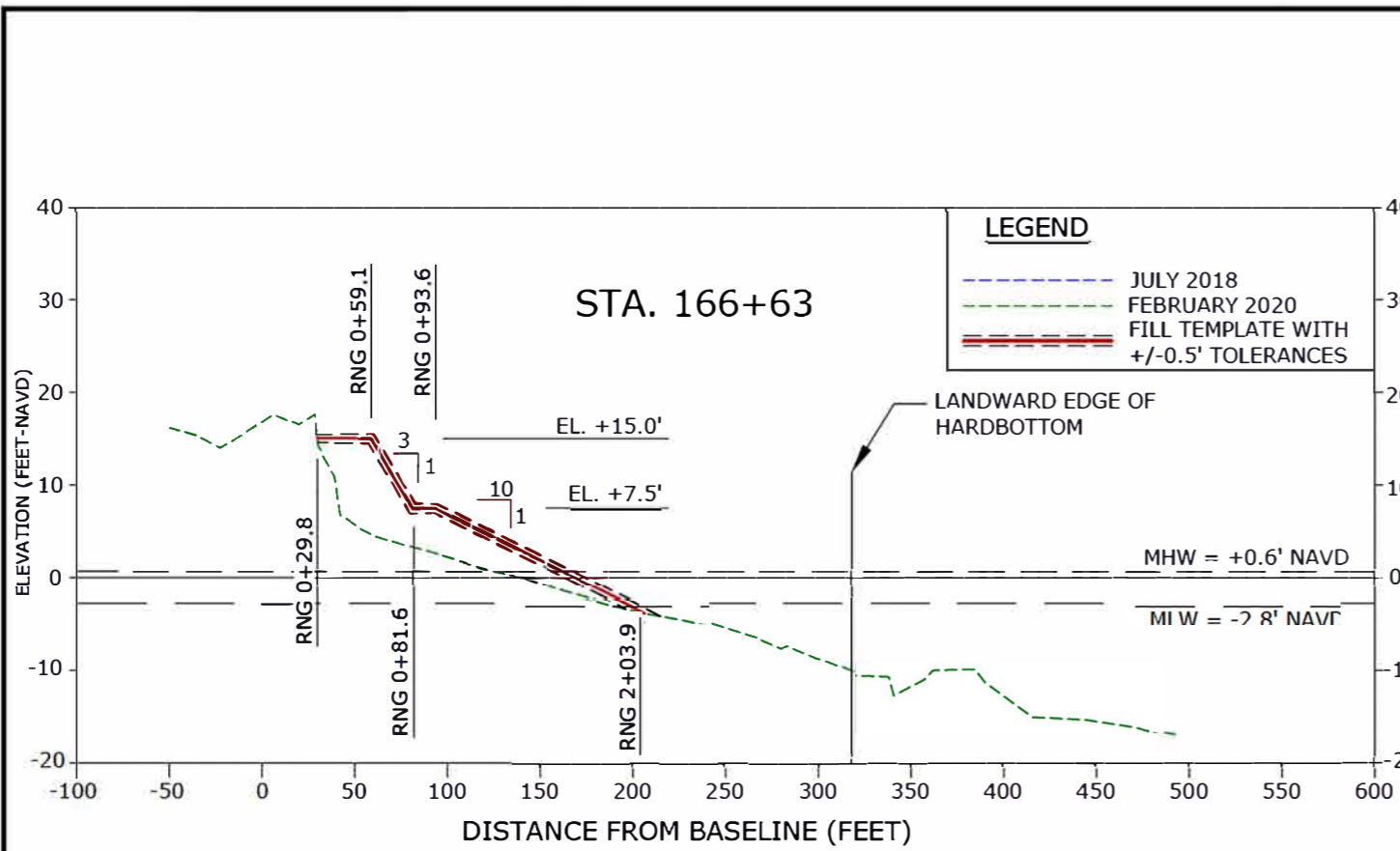
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Reviewed by:	CP		
Submitted by:	CP		
Comm. No.:	63123571-4		

AS NOTED

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. **XS-4**

SHEET 35 OF 44



- NOTES:**
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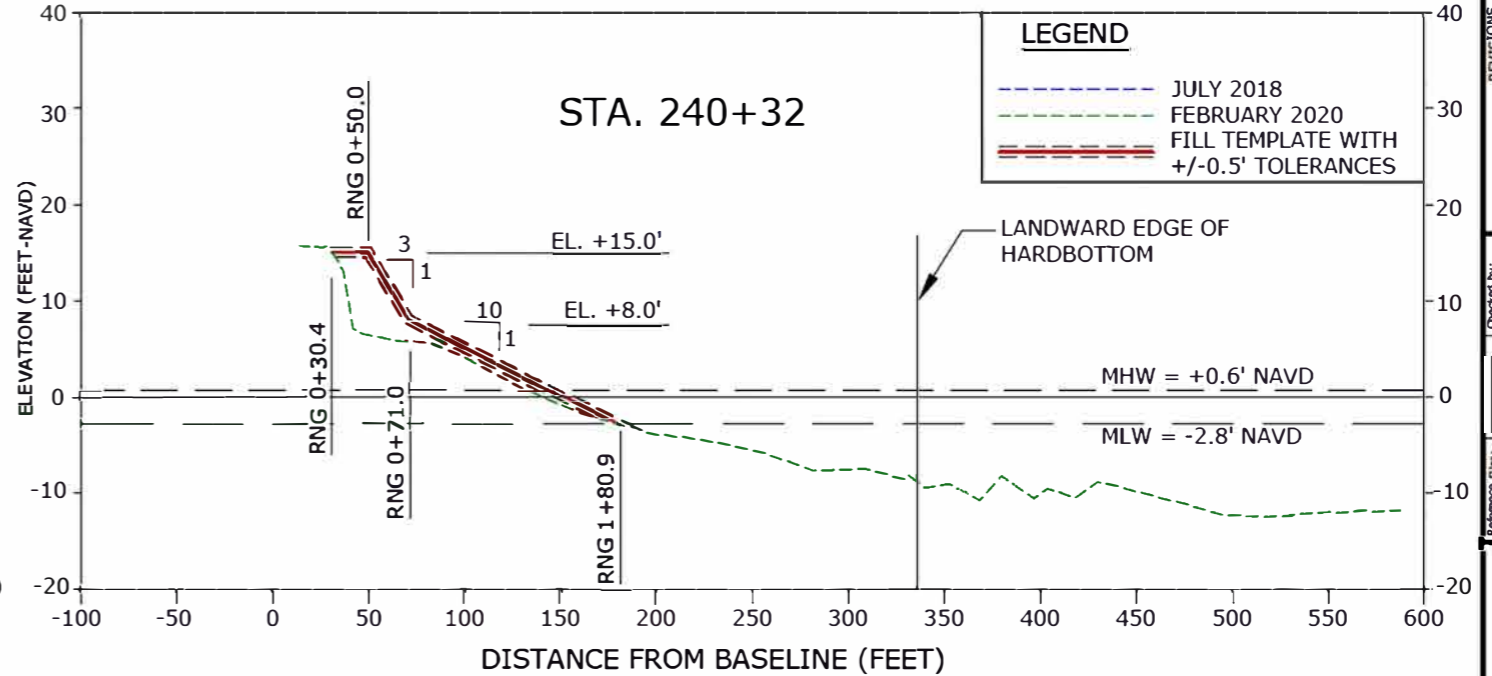
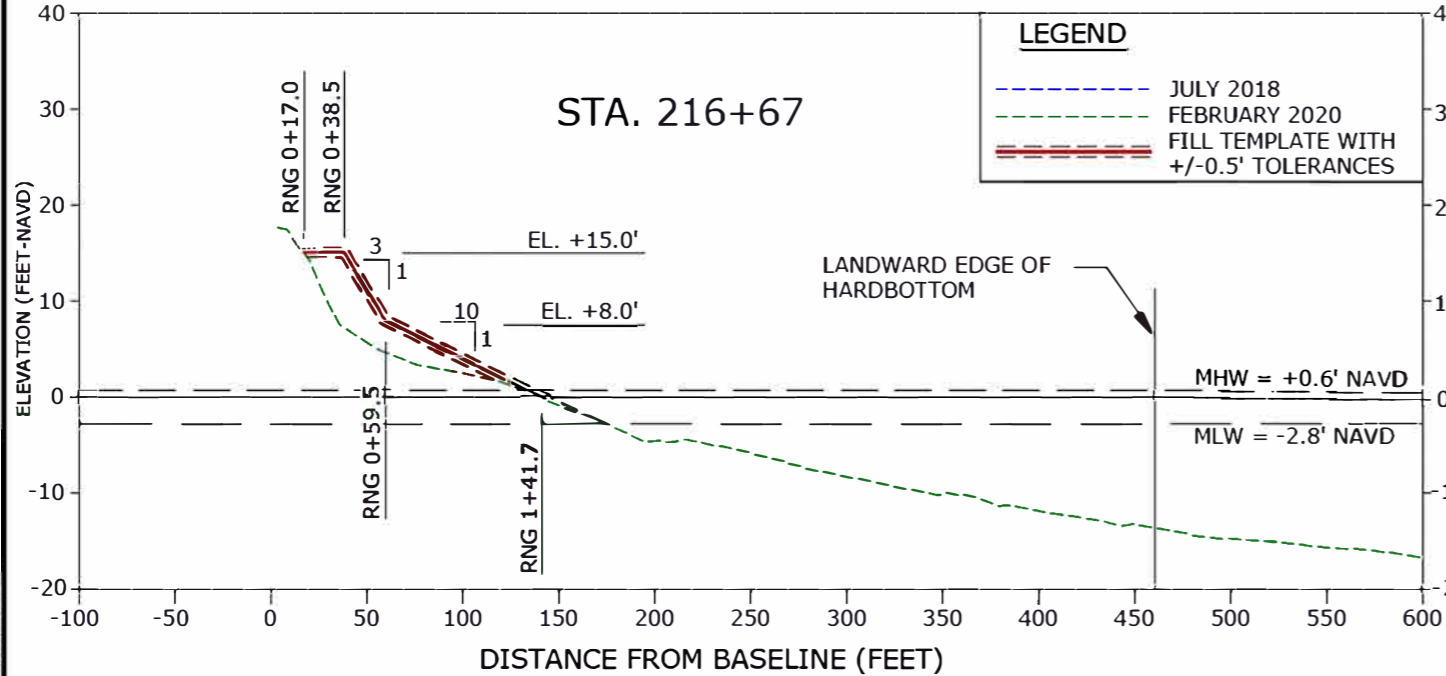
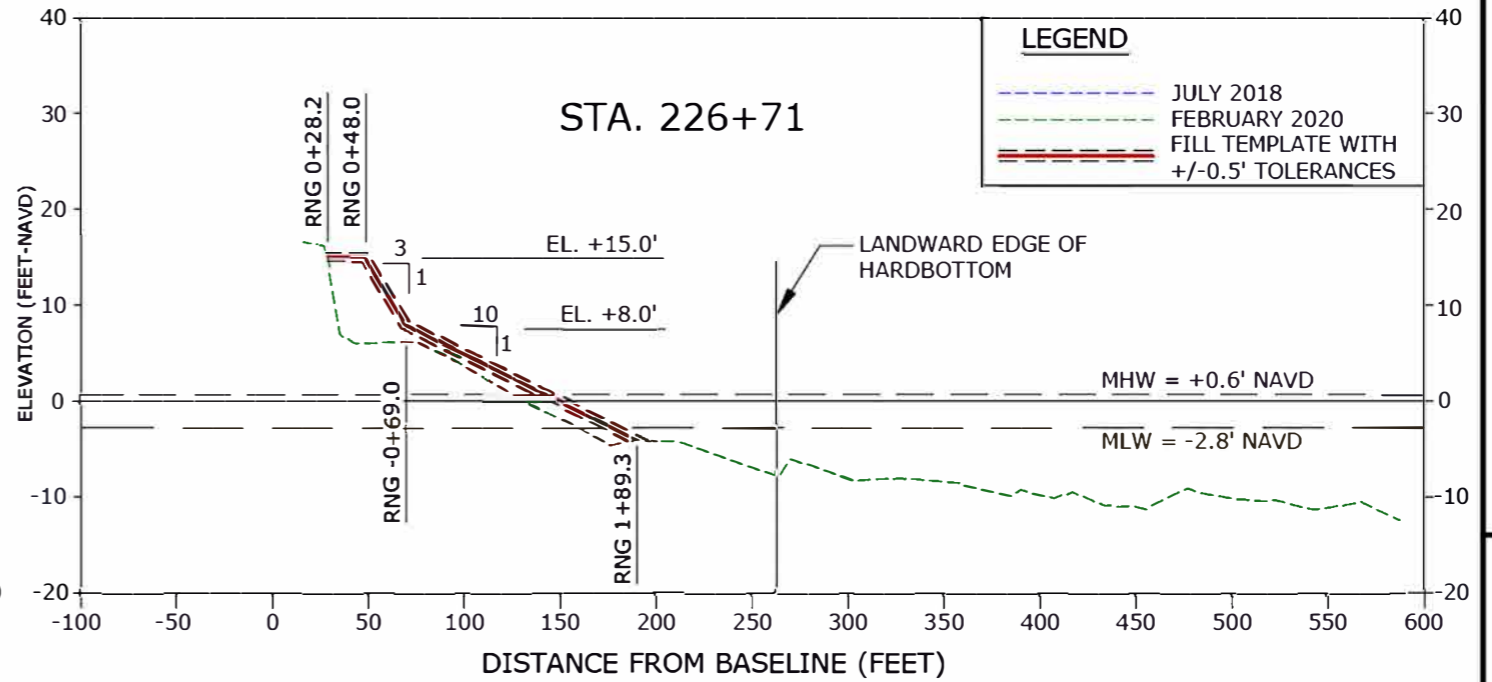
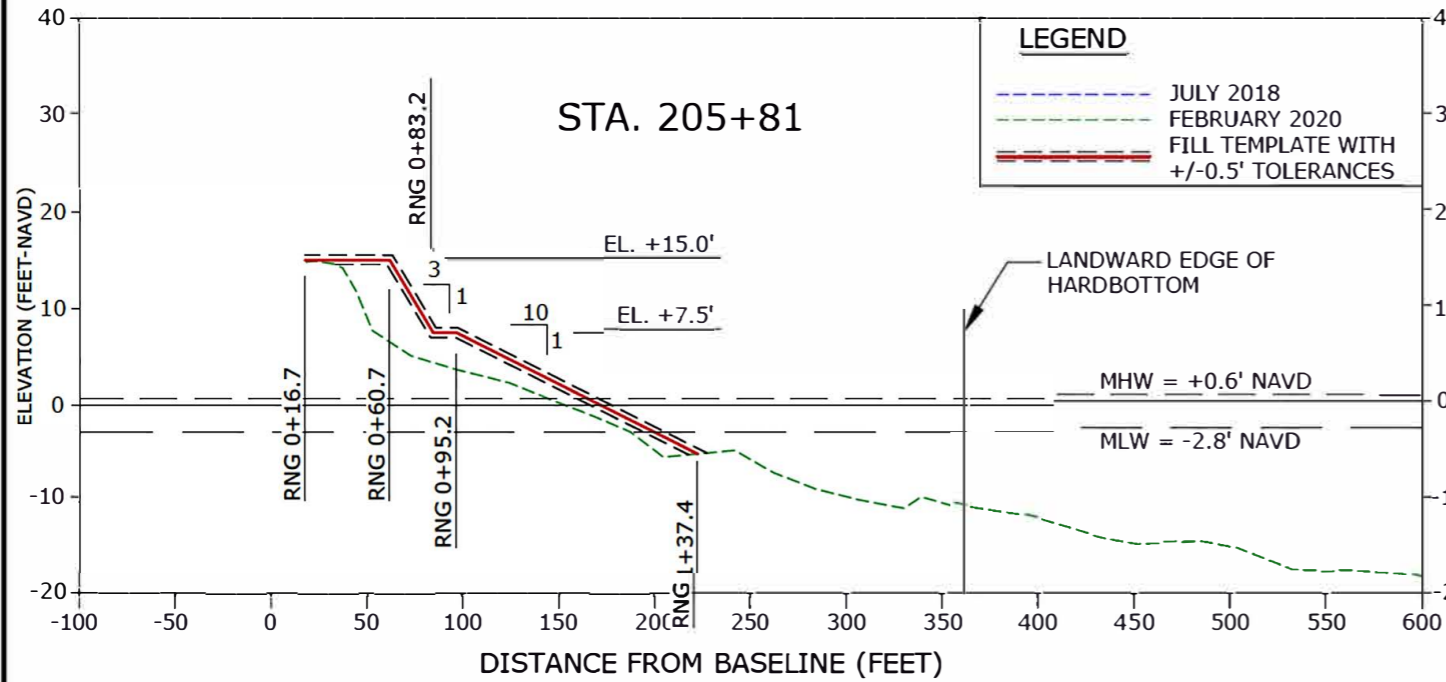
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Designed by:	DM	Checked by:	DM
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Date:	04/16/20	Submitted by:	CP
Plot Scale:	AS NOTED	Comm. No.:	631235714

SECTOR 3
 BEACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO. XS-5

SHEET 36 OF 44



NOTES:

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DATE

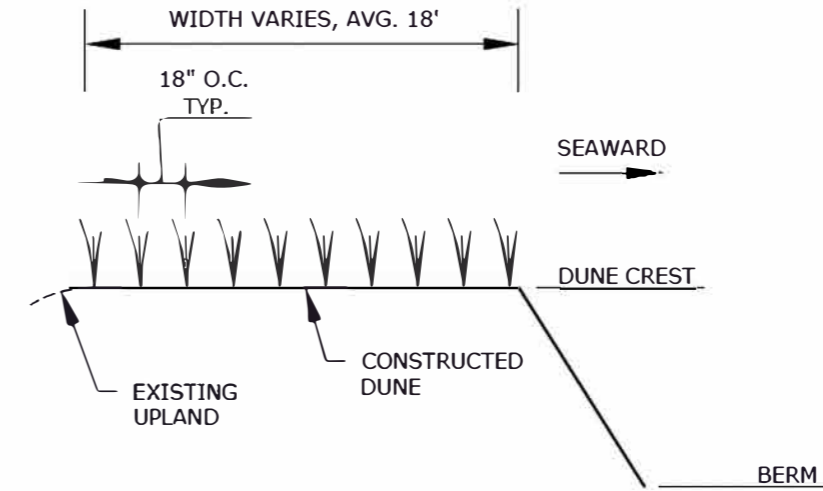
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SECTOR 3
BEACH AND DUNE RENOURISHMENT PROJECT
CONSTRUCTION PLANS
INDIAN RIVER COUNTY, FLORIDA
CROSS SECTIONS

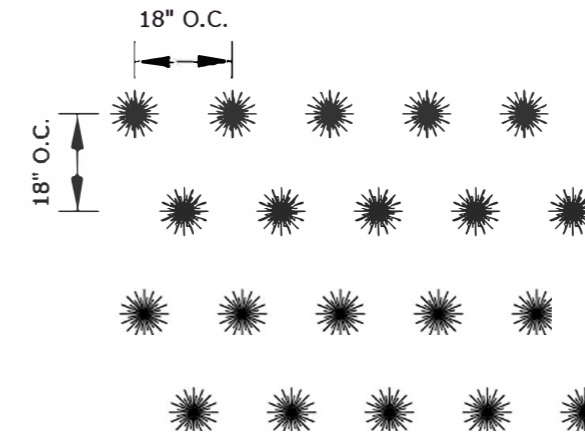
DRAWING NO.

XS-6

PLANTING DETAIL					
PLANT TYPE	SCIENTIFIC NAME	PERCENT DISTRIBUTION	QUANTITY (APPROX.)	SIZE (MIN.)	SPACING
SEA OATS	UNIOLA PANICULATA	80% to 85%	281,696	1" LINER	18" O.C.
BITTER PANICGRASS	PANICUM AMARUM	10% TO 15%	35,212	1" LINER	18" O.C.
RAILROAD VINE	IPOMOEA PES-CAPRAE	4% TO 8% (RELATIVELY EQUAL ABUNDANCE OF EACH)	17,606	1" LINER	18" O.C.
DUNE SUNFLOWER	HELIANTHUS DEBILIS		17,606	1" LINER	18" O.C.



**TYPICAL DUNE PLANTING
CROSS SECTION**
NOT TO SCALE



**TYPICAL DUNE PLANTING
STAGGERED LAYOUT**
NOT TO SCALE

NOTES:

- CONTRACTOR SHALL FIELD LOCATE DUNE AREA PRIOR TO PLANTING. TEMPORARY STAKES DENOTING SEAWARD LIMITS SHALL BE PROVIDED. CONTRACTOR SHALL OBTAIN APPROVAL OF LOCATION FROM COUNTY OR ENGINEER PRIOR TO PLANTING.
- PLANTS SHALL BE INSTALLED FOLLOWING GOOD HORTICULTURE PRACTICES WITH A SLOW RELEASE FERTILIZER IN EACH HOLE.
- CONTRACTOR SHALL PROVIDE INITIAL WATERING. CONTRACTOR SHALL COORDINATE WITH COUNTY REGARDING USE OF LOCAL COUNTY SOURCES, OTHERWISE CONTRACTOR SHALL PROVIDE WATER. CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATERING AS NEEDED FOR 30 DAYS DEPENDING ON RAINFALL. AT END OF 30 DAYS, CONTRACTOR SHALL PROVIDE COUNTY WITH WRITTEN WATERING INSTRUCTIONS.
- CONTRACTOR SHALL WARRANTY PLANTS AT THE FOLLOWING SCHEDULE:

0-30 DAYS	100% SURVIVING
30-90 DAYS	80% SURVIVING
- CONTRACTOR SHALL MONITOR PLANTING MONTHLY FOR 3 MONTHS. AT THE END OF 3 MONTHS, A SUMMARY REPORT OF SURVIVAL AND RECOMMENDATION FOR MAINTENANCE SHALL BE PROVIDED TO COUNTY.
- ALL DUNE VEGETATION WORK SHALL BE IN COMPLIANCE WITH ALL FDEP PERMIT REQUIREMENTS.
- NO EXISTING VEGETATION TO BE REMOVED.

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH
THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W MANN, P.E. NO. 44046

DATE

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC

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C.O.A. FL #9317
C.O.A. LA #2531

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BOCA RATON, FLORIDA 33431

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NO.	DATE	DESCRIPTION
1	10/2/19	REVISIONS - 1

Reference File:
 AS NOTED
 63123571-4
 No. Date Description

SECTOR 3
 EACH AND DUNE RENOURISHMENT PROJECT
 CONSTRUCTION PLANS
 INDIAN RIVER COUNTY, FLORIDA

DRAWING NO.
D-2
 SHEET 42 OF 44

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