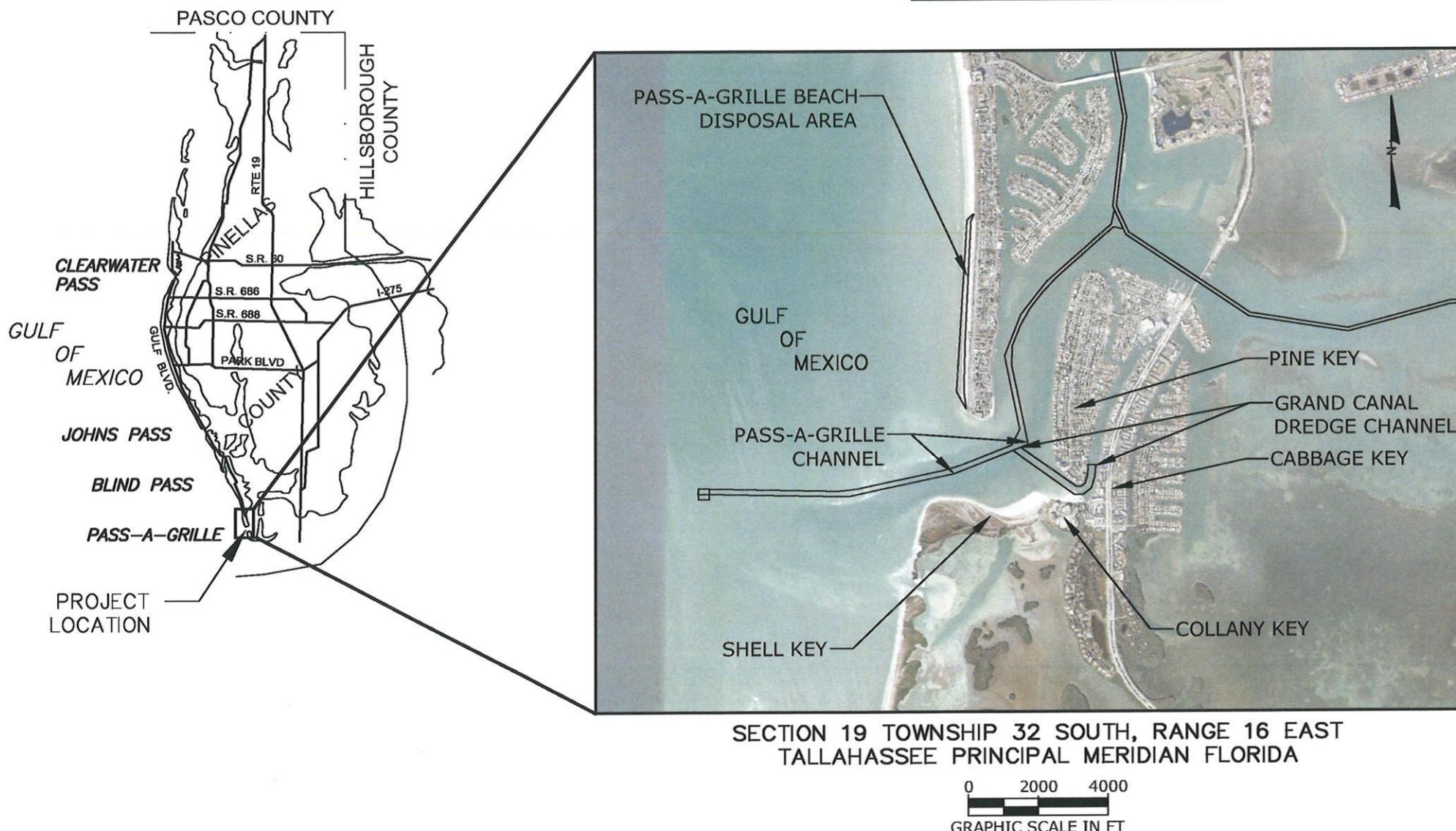




GRAND CANAL MAINTENANCE DREDGING PROJECT AND LONG KEY PASS-A-GRILLE SEGMENT BEACH NOURISHMENT PROJECT, PINELLAS COUNTY, FLORIDA

PID No. 004607A

PID No. 002573A



NOTE:
WORK CONDUCTED UNDER FDEP PERMIT NO. 0221569-020-JM AND
USACE PERMIT NO. SAJ-2020-03722.

Aptim Environmental & Infrastructure, LLC

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

PINELLAS COUNTY COMMISSION	
JANET C. LONG	DISTRICT 1
BRIAN SCOTT	DISTRICT 2 2024 VICE CHAIR
CHARLIE JUSTICE	DISTRICT 3
DAVE EGGERS	DISTRICT 4
CHRIS LATVALA	DISTRICT 5
KATHLEEN PETERS	DISTRICT 6 2024 CHAIR
RENE' FLOWERS	DISTRICT 7

SHEET INDEX	
NO.	TITLE
1.	COVER SHEET
2.	SURVEY CONTROL DATA
3.	HYDROGRAPHIC AND TOPOGRAPHIC SURVEY
4.	HYDROGRAPHIC AND TOPOGRAPHIC SURVEY
5.	GRAND CANAL DREDGE AREA
6.	GRAND CANAL DREDGE AREA
7.	DREDGE AREA CROSS-SECTIONS
8.	PASS-A-GRILLE AREA OVERVIEW
9.	PASS-A-GRILLE DISPOSAL AREA 1 OF 2
10.	PASS-A-GRILLE DISPOSAL AREA 2 OF 2
11.	PASS-A-GRILLE DISPOSAL AREA CROSS-SECTIONS
12.	PASS-A-GRILLE BORROW AREA LIMITS
13.	PASS-A-GRILLE CROSS SECTION



CERTIFICATION
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.
4/30/24
NICOLE S. SHARP P.E. NO. 74708

BEACH DISPOSAL CONSTRUCTION BASELINE TABLE		
STATION	NORTHING	EASTING
0+00	1218277.21	417186.47
1+00	1218377.11	417190.90
2+00	1218477.01	417195.32
3+00	1218576.91	417199.75
4+00	1218676.81	417204.18
5+00	1218776.71	417208.61
6+00	1218876.65	417212.19
7+00	1218976.61	417214.93
8+00	1219076.57	417217.67
9+00	1219176.54	417220.41
10+00	1219276.50	417223.16
11+00	1219376.46	417225.90
12+00	1219476.42	417228.64
13+00	1219576.39	417231.38
14+00	1219676.35	417234.12
15+00	1219776.31	417236.86
16+00	1219876.27	417239.60
17+00	1219976.23	417242.34
18+00	1220076.20	417245.09
19+00	1220176.16	417247.83
20+00	1220276.12	417250.57
21+00	1220375.99	417255.70
22+00	1220475.86	417260.86
23+00	1220575.72	417266.01
24+00	1220675.59	417271.17
25+00	1220775.46	417276.32
26+00	1220875.33	417281.48
27+00	1220975.19	417286.63

BEACH FILL CONTROL POINTS			
MONUMENT	X COORDINATE	Y COORDINATE	ELEVATION
LK BP 3A	413,102.00	1,237,467.59	7.12
BLIND P	415,462.40	1,235,743.80	6.47

DREDGE CHANNEL CONTROL POINTS			
MONUMENT	X COORDINATE	Y COORDINATE	ELEVATION
TVB-101	424,996.57	1,223,812.04	12.65
TVB-102	423,396.17	1,220,638.67	18.34

NOTE:

- COORDINATES ARE SHOWN IN US SURVEY FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83. ELEVATIONS ARE FEET BASED ON NAVD88.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SURVEY CONTROL. TIDAL DATUM PROVIDED FOR REFERENCE ONLY.

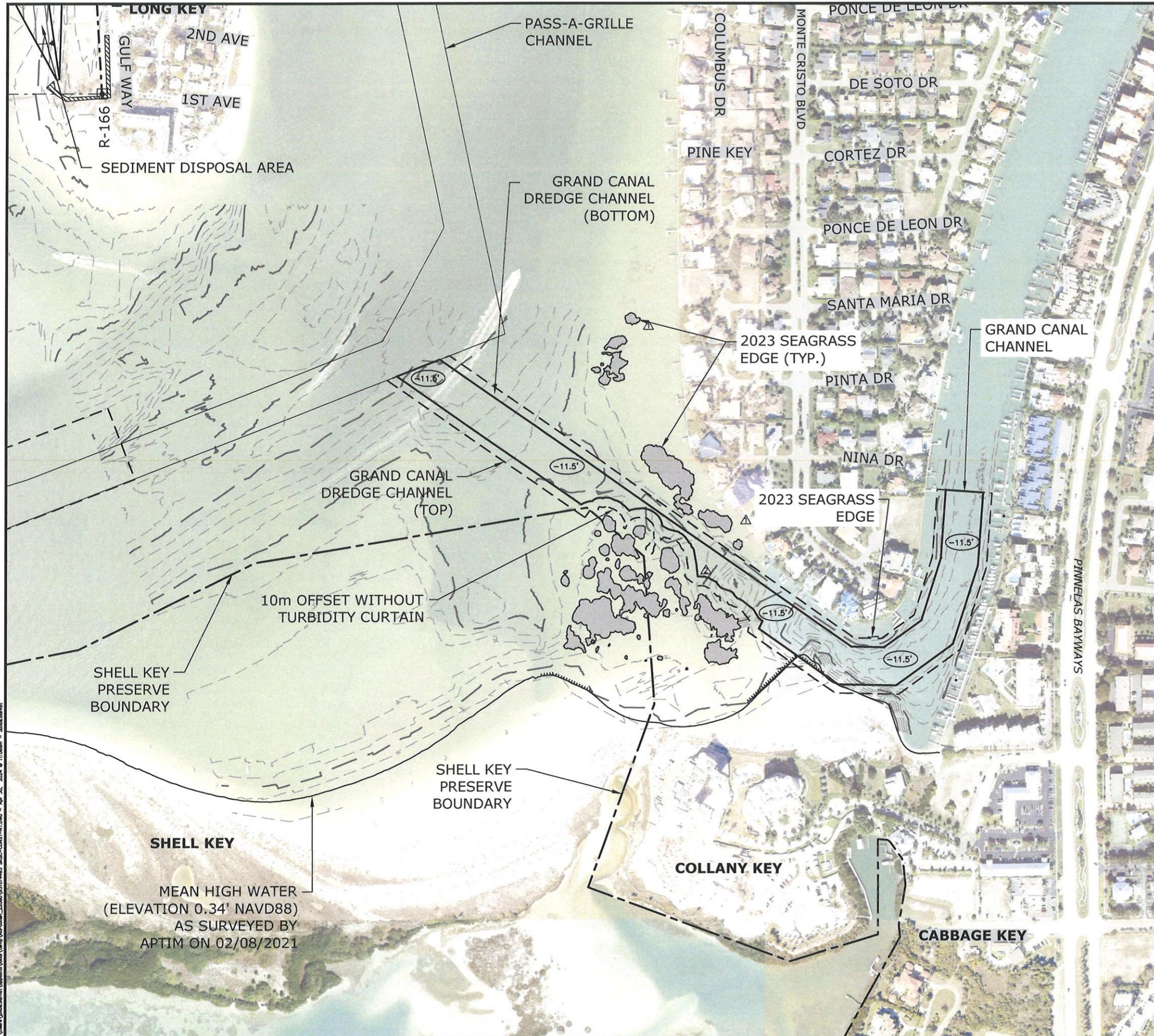
BEACH DISPOSAL CONSTRUCTION BASELINE TABLE		
STATION	NORTHING	EASTING
28+00	1221075.06	417291.78
29+00	1221174.93	417296.94
30+00	1221274.79	417302.09
31+00	1221374.66	417307.25
32+00	1221474.53	417312.40
33+00	1221574.39	417317.55
34+00	1221674.26	417322.71
35+00	1221774.13	417327.86
36+00	1221873.99	417333.07
37+00	1221973.86	417338.28
38+00	1222073.72	417343.48
39+00	1222173.59	417348.69
40+00	1222273.45	417353.89
41+00	1222373.32	417359.10
42+00	1222473.18	417364.30
43+00	1222573.04	417369.51
44+00	1222672.91	417374.71
45+00	1222772.78	417379.78
46+00	1222872.65	417384.85
47+00	1222972.52	417389.91
48+00	1223072.40	417394.97
49+00	1223172.27	417400.03
50+00	1223272.14	417405.09
51+00	1223372.01	417410.15
52+00	1223472.17	417415.51
53+00	1223572.01	417421.19
54+00	1223671.91	417425.62
55+00	1223771.81	417430.04

CHANNEL CONSTRUCTION BASELINE TABLE		
STATION	NORTHING	EASTING
0 + 00	1217215.32	418593.25
1 + 00	1217157.93	418675.14
2 + 00	1217100.55	418757.03
3 + 00	1217043.16	418838.93
4 + 00	1216985.77	418920.82
5 + 00	1216928.38	419002.71
6 + 00	1216870.99	419084.61
7 + 00	1216813.60	419166.50
8 + 00	1216756.22	419248.40
9 + 00	1216698.83	419330.29
10 + 00	1216641.44	419412.18
11 + 00	1216584.05	419494.08
12 + 00	1216526.66	419575.97
13 + 00	1216469.27	419657.86
14 + 00	1216411.89	419739.76
15 + 00	1216354.50	419821.65
16 + 00	1216297.11	419903.55
17 + 00	1216239.72	419985.44
18 + 00	1216182.33	420067.33
19 + 00	1216124.94	420149.23
20 + 00	1216067.56	420231.12

CHANNEL CONSTRUCTION BASELINE TABLE		
STATION	NORTHING	EASTING
21 + 00	1216016.08	420316.43
22 + 00	1216003.39	420415.01
23 + 00	1216015.49	420513.16
24 + 00	1216071.54	420595.81
25 + 00	1226717.50	417459.50
26 + 00	1225686.40	417550.60
27 + 00	1224692.10	417563.30
28 + 00	1223659.30	417550.10
29 + 00	1222677.10	417487.30
30 + 00	1221772.00	417432.10
31 + 00	1220776.30	417371.10
32 + 00	1219774.80	417398.00
33 + 00	1218825.60	417412.90
34 + 00	1218269.30	417364.80
35 + 00	1216133.00	420674.39
36 + 00	1216223.52	420714.83
37 + 00	1216318.80	420745.17
38 + 00	1216414.32	420774.69
39 + 00	1216513.92	420783.05
40 + 00	1216613.66	420790.28
41 + 00	1216713.40	420797.51

R-MONUMENT TABLE			
MONUMENT	NORTHING	EASTING	AZIMUTH
R-160	1223659.30	417550.10	270
R-161	1222677.10	417487.30	270
R-162	1221772.00	417432.10	275
R-163	1220776.20	417371.10	275
R-164	1219774.80	417398.00	270
R-165	1218825.60	417412.90	270
R-166	1218269.30	417364.80	270

CHANNEL COORDINATE TABLE		



GRAND CANAL MAINTENANCE DREDGING PROJECT PINELLAS COUNTY, FLORIDA		HYDROGRAPHIC AND TOPOGRAPHIC SURVEY 10m BUFFER	
REVISIONS	REVISIONS	Designed by:	Checked by:
File: ECB	File: ECB	Drawn by:	Reviewed by:
Reference File: 02/25/23 SEAGRASS 2023	Reference File: 02/25/23 SEAGRASS BUFFER	JEB	TP
Date: 08/08/23	Date: 08/08/23	Submitted by:	Submitted by:
Plot Scale: AS NOTED	No. Comm. No.: 631014493	No. Date:	Description:

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

DA-1

DATE: 4/30/24

NO. 74708
NICOLE S. SHARP
LICENSE
PROFESSIONAL ENGINEER
STATE OF FLORIDA
SHEET 3 OF 13

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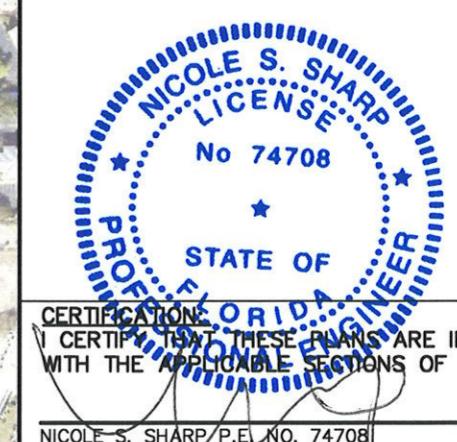


LEGEND:

- MONUMENT NAME
- DYNAMIC BOUNDARY
- 2023 SEAGRASS EDGE
- (-8.0') DREDGE ELEVATION
- SLOPE BOUNDARY

NOTE:

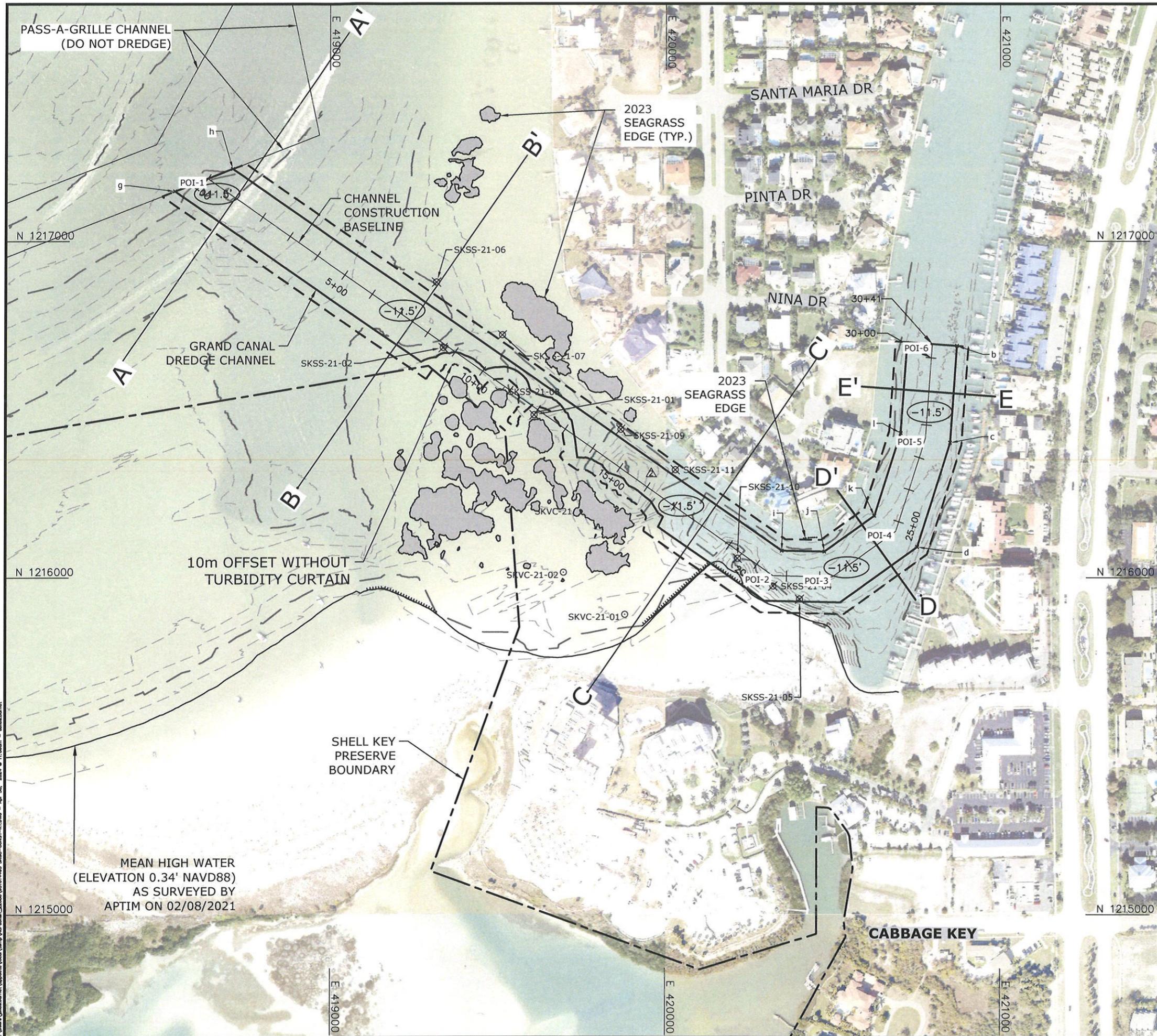
- PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE, SEE SHEETS DA-2 AND DA-3.
- THE SEAGRASS SURVEY PERFORMED BY APTIM, SEPTEMBER 25 TO OCTOBER 03 2023 AS SHOWN HEREON.
- DREDGING ACTIVITIES SHOULD ALWAYS BE 16.4' (5m) OR GREATER FROM SEAGRASS WHEN USING TURBIDITY CURTAINS OR 32.8' (10m) OR GREATER WHEN NOT USING TURBIDITY CURTAINS.



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

NICOLE S. SHARP P.E. NO. 74708

Aptim Environmental & Infrastructure, LLC																			
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PH. (561) 381-8102 FAX (561) 381-9116 C.O.A. FL. #9317																			
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>Designed by:</th> <th>Checked by:</th> </tr> </thead> <tbody> <tr> <td>ECB</td> <td>JEB</td> </tr> <tr> <td>Reviewed by:</td> <td>TP</td> </tr> <tr> <td>Submitted by:</td> <td>TP</td> </tr> <tr> <td>Date: 08/08/23</td> <td>Comm. No. 63101449-3</td> </tr> <tr> <td>Plot Scale: AS NOTED</td> <td>No. Date</td> </tr> <tr> <td colspan="2">Description</td> </tr> </tbody> </table>				REVISIONS		Designed by:	Checked by:	ECB	JEB	Reviewed by:	TP	Submitted by:	TP	Date: 08/08/23	Comm. No. 63101449-3	Plot Scale: AS NOTED	No. Date	Description	
REVISIONS																			
Designed by:	Checked by:																		
ECB	JEB																		
Reviewed by:	TP																		
Submitted by:	TP																		
Date: 08/08/23	Comm. No. 63101449-3																		
Plot Scale: AS NOTED	No. Date																		
Description																			
GRAND CANAL MAINTENANCE DREDGING PROJECT PINELLAS COUNTY, FLORIDA		Reference File:	DA-2/24/24 SEAGRASS 2023 DA-2/24/24 SEAGRASS BUFFER																
HYDROGRAPHIC AND TOPOGRAPHIC SURVEY 5m BUFFER																			
DRAWS BY NICOLE S. SHARP DATE 4/30/24																			
SHEET 4 OF 13																			



LEGEND:

- ☒ 2021 GRAB SAMPLE LOCATION
 ○ 2021 VIBRACORE SAMPLE LOCATION
 ----- DYNAMIC BOUNDARY
 2023 SEAGRASS EDGE
 DREDGE ELEVATION
 —— SLOPE BOUNDARY
 +--- CHANNEL CONSTRUCTION BASELINE
 1+00 SEAGRASS BUFFER 32.8' (10m)

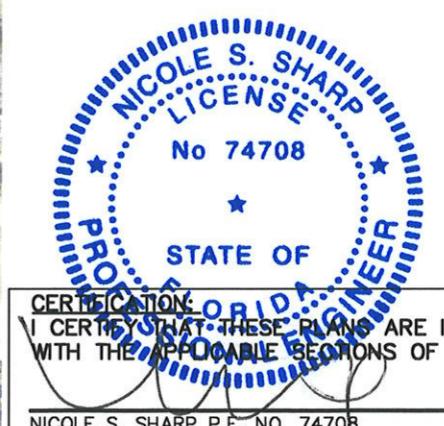
Aaptim Environmental & Infrastructure, LLC

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C.O.A. FL. #8317
www.aprim.com

NOTE:

1. PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE, SEE SHEETS DA-2 AND DA-3.
 2. THE SEAGRASS SURVEY PERFORMED BY APTIM, SEPTEMBER 25 TO OCTOBER 03 2023 AS SHOWN HEREON.
 3. DREDGING ACTIVITIES SHOULD ALWAYS BE 16.4' (5m) OR GREATER FROM SEAGRASS WHEN USING TURBIDITY CURTAINS OR 32.8' (10m) OR GREATER WHEN NOT USING TURBIDITY CURTAINS.

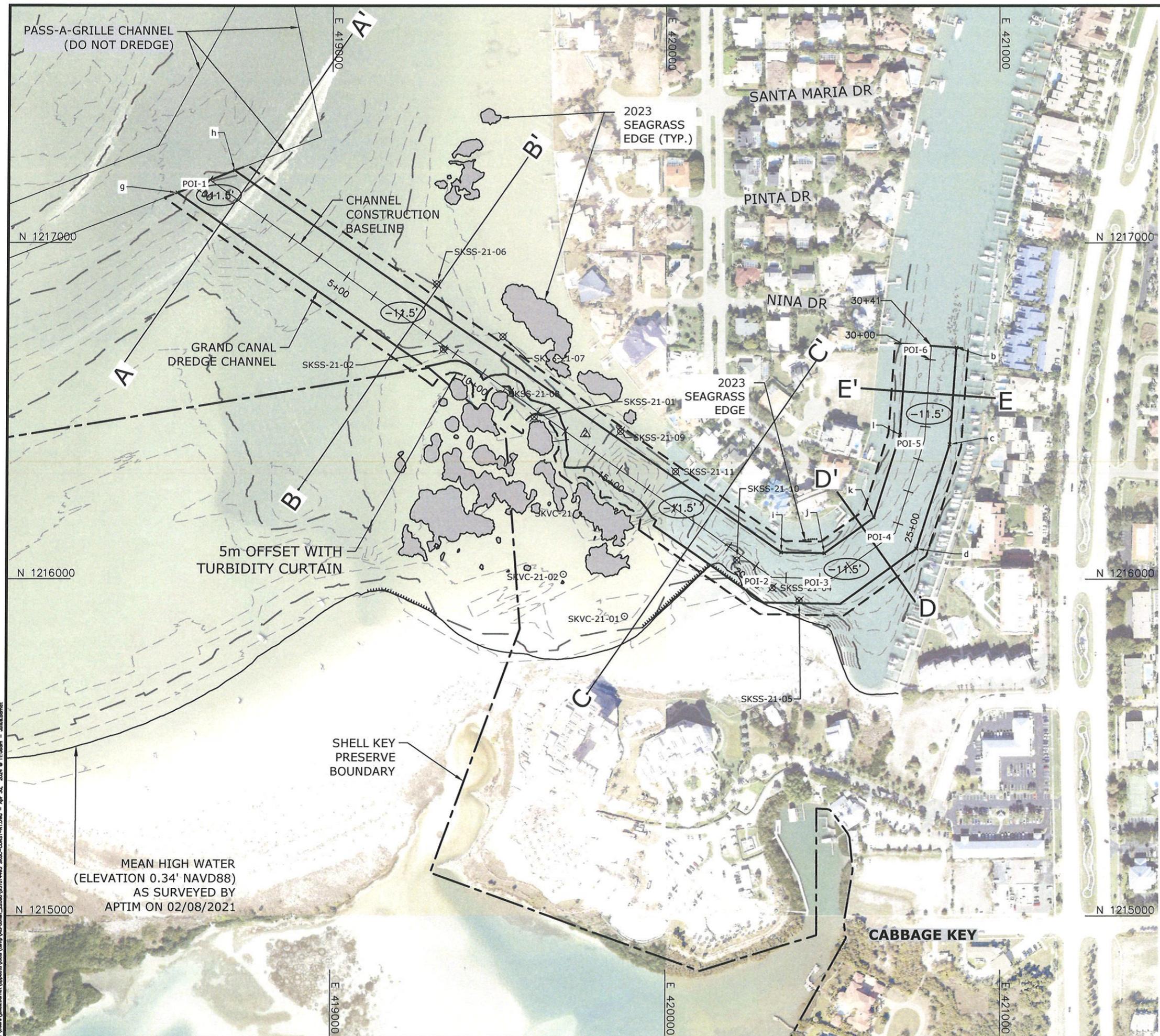
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Drawn by:	JEB	Reviewed by:	△ 04/14/24 SEABURST BUFFER
Date:	08/08/23	Submitted by:	
Pilot Scale:	TP		
AS NOTED	631014493	No.	Description



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

NICOLE S. SHARP P.E. NO. 7470B

DRAWING NO.
DA-3
SHEET 5 OF 13



LEGEND:

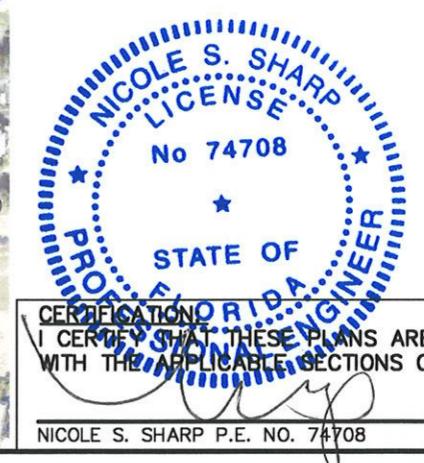
- ☒ 2021 GRAB SAMPLE LOCATION
- 2021 VIBRACORE SAMPLE LOCATION
- ===== DYNAMIC BOUNDARY
- 2023 SEAGRASS EDGE
- DREDGE ELEVATION
- SLOPE BOUNDARY
- CHANNEL CONSTRUCTION BASELINE
- SEAGRASS BUFFER 16.4' (5m)

Optim Environmental & Infrastructure, LLC

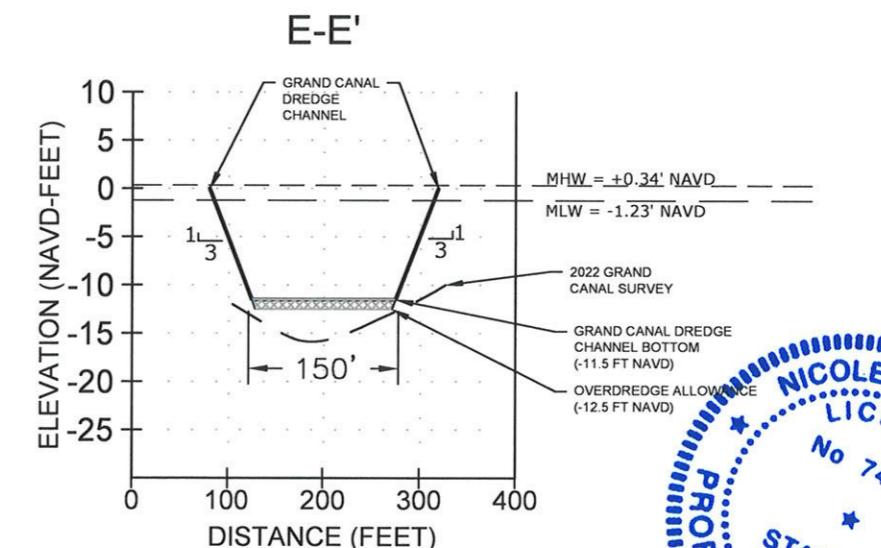
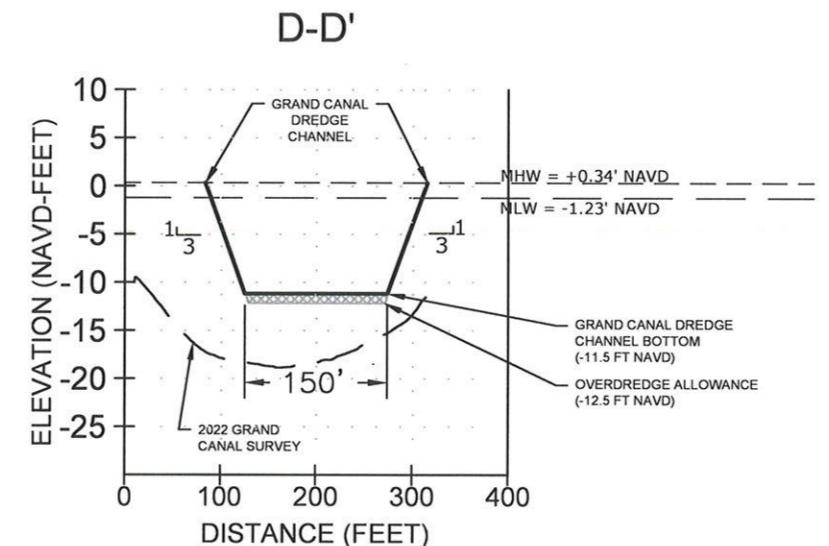
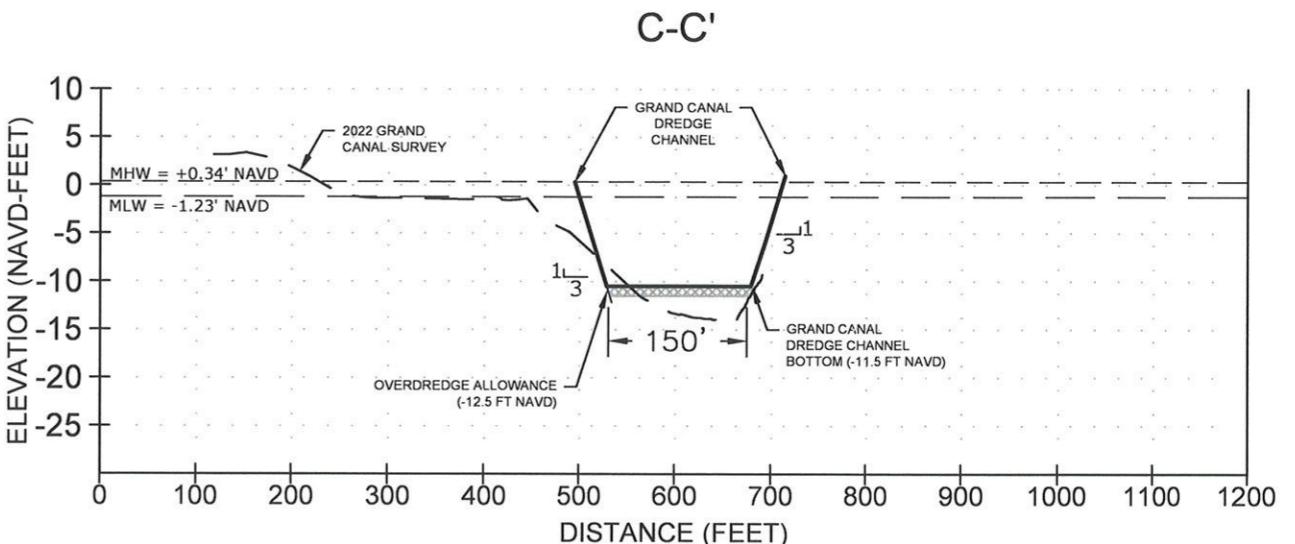
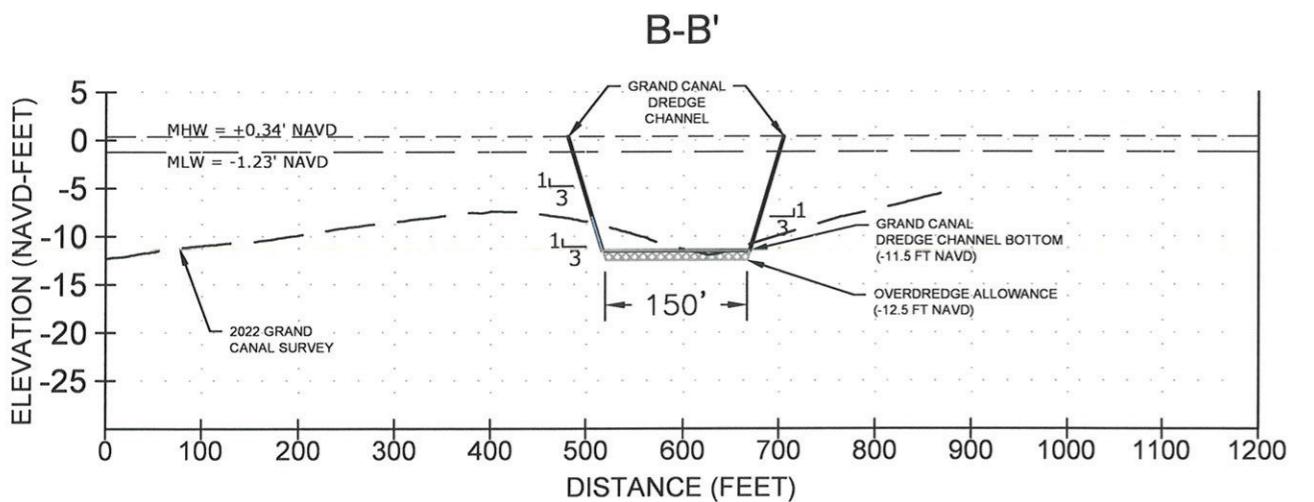
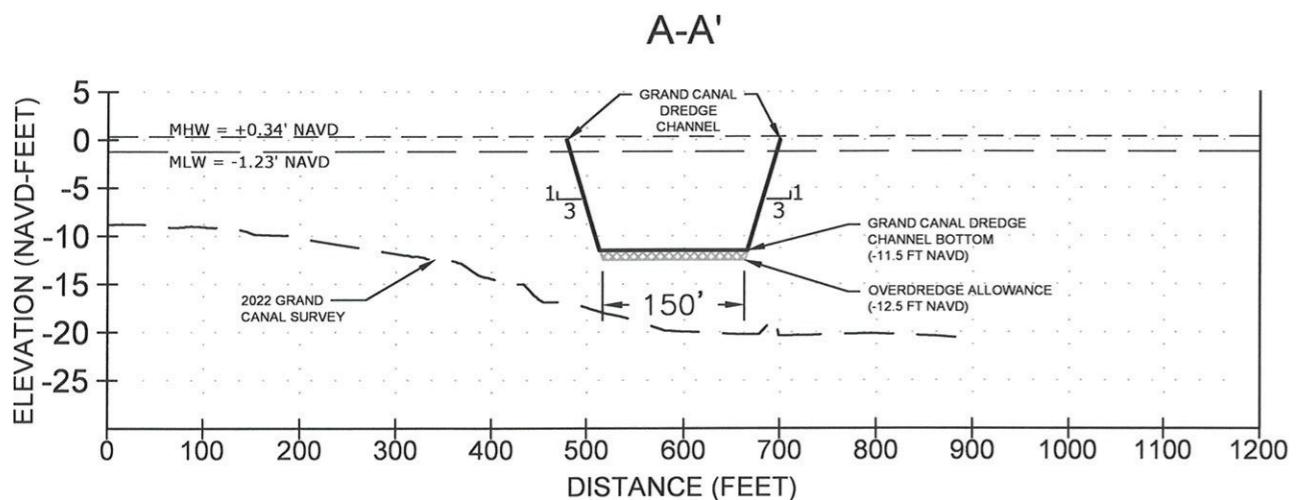
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- NOTE:

 1. PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE, SEE SHEETS DA-2 AND DA-3.
 2. THE SEAGRASS SURVEY PERFORMED BY APTIM, SEPTEMBER 25 TO OCTOBER 03 2023 AS SHOWN HEREON.
 3. DREDGING ACTIVITIES SHOULD ALWAYS BE 16.4' (5m) OR GREATER FROM SEAGRASS WHEN USING TURBIDITY CURTAINS OR 32.8' (10m) OR GREATER WHEN NOT USING TURBIDITY CURTAINS.



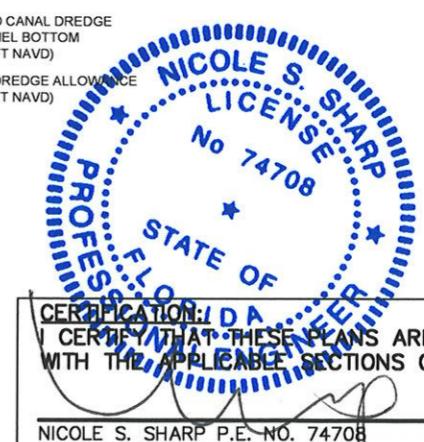
DRAWING NO.
DA-4
SHEET 6 OF 13



NOTE:

1. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 2. HYDROGRAPHIC SURVEY COLLECTED SEPTEMBER 2022 BY USACE.

A scale bar diagram consisting of two horizontal bars. The top bar is labeled "HORIZONTAL SCALE IN FT" and has tick marks at 0, 100, and 200. The bottom bar is labeled "VERTICAL SCALE IN FT" and has tick marks at 0, 10, and 20.



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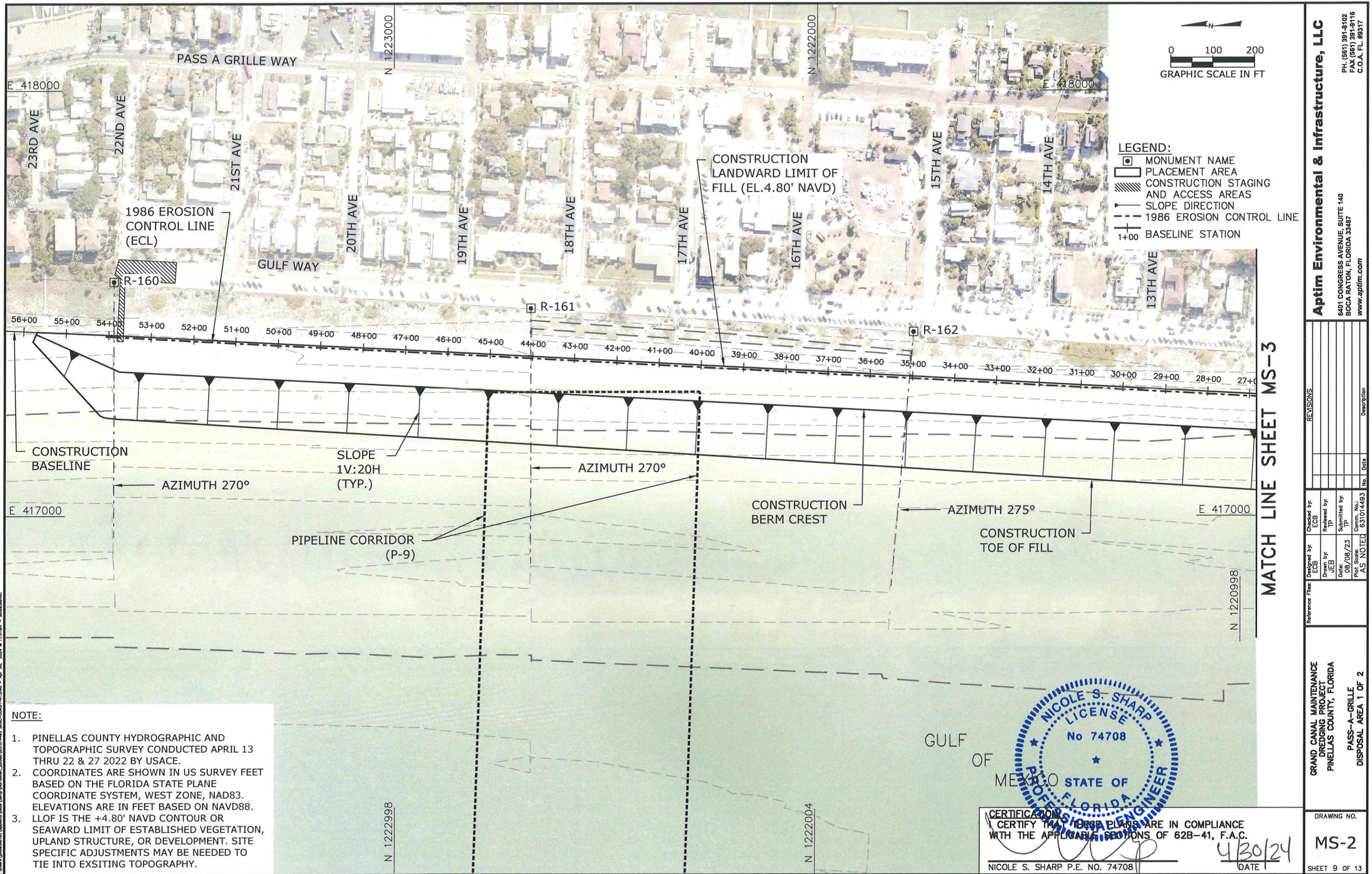
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ECB	ECB	Reviewed by:		Description
Drawn by:	JEB	TP		
Date:	08/08/23	Submitted by:		
Pilot Scale:	Comm. No.: 631014493	No.	Date	
AS NOTED				

**DREDGE AREA
CROSS SECTIONS**

DRAWING NO.
DA-5



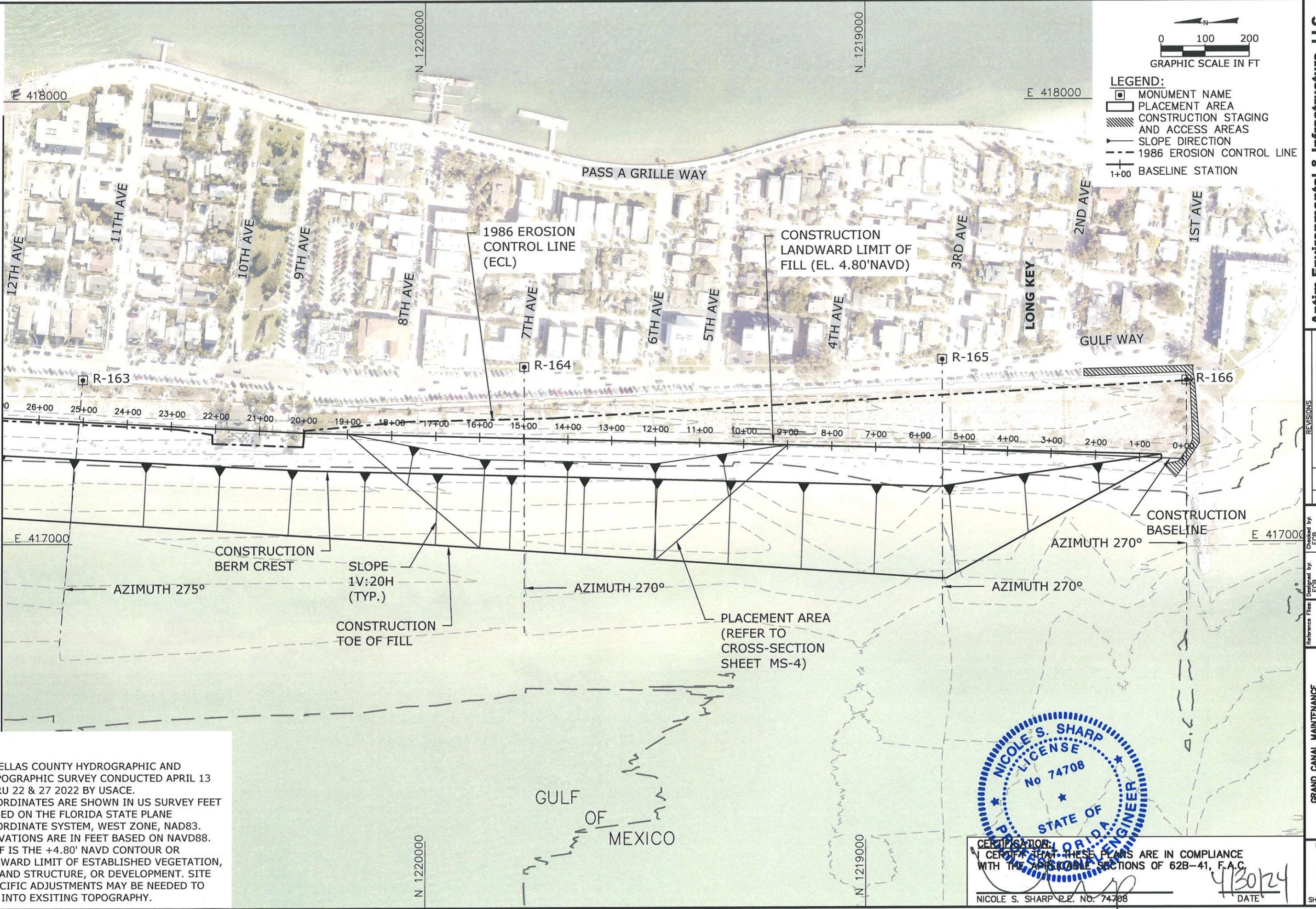


MATCH LINE SHEET MS-2

卷之三

NOTE

1. PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE.
 2. COORDINATES ARE SHOWN IN US SURVEY FEET BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83. ELEVATIONS ARE IN FEET BASED ON NAVD88.
 3. LLOF IS THE +4.80' NAVD CONTOUR OR SEAWARD LIMIT OF ESTABLISHED VEGETATION, UPLAND STRUCTURE, OR DEVELOPMENT. SITE SPECIFIC ADJUSTMENTS MAY BE NEEDED TO TIE INTO EXSITING TOPOGRAPHY.



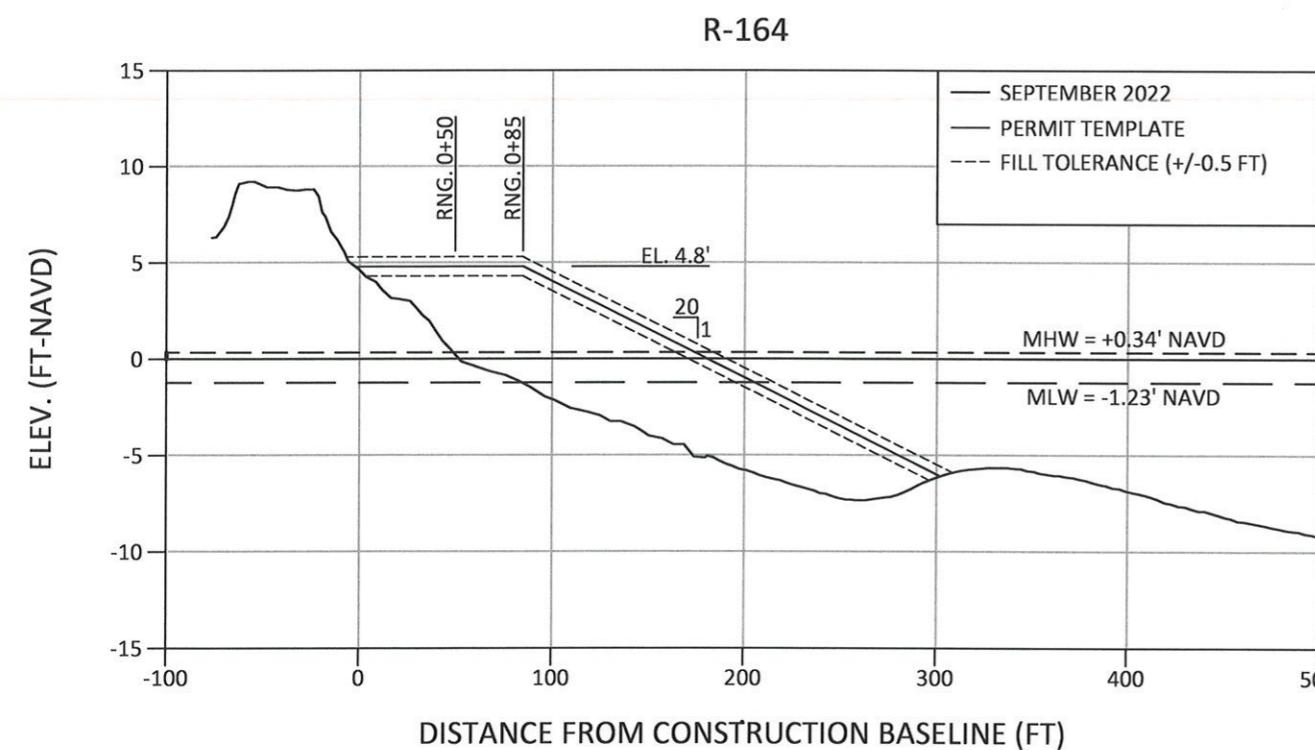
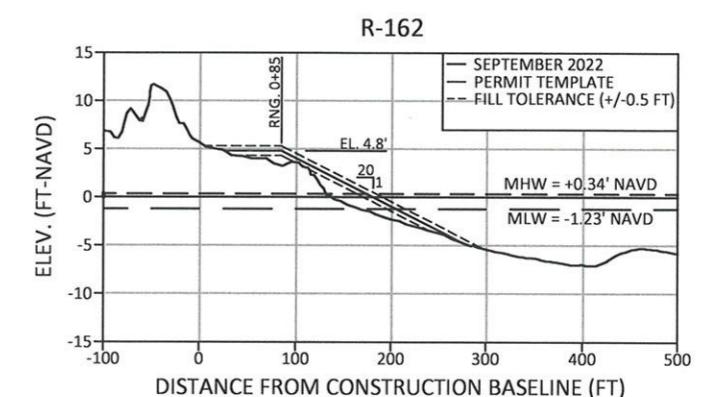
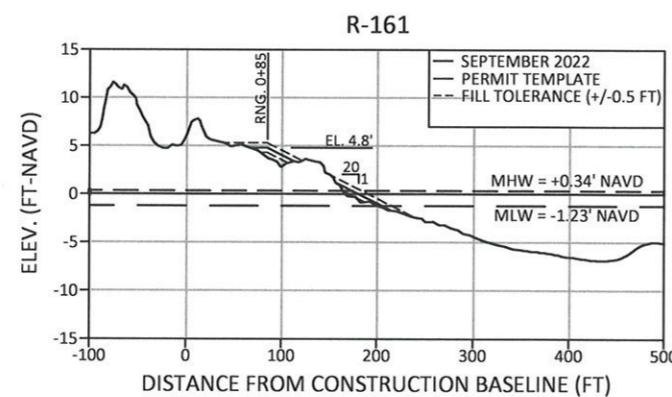
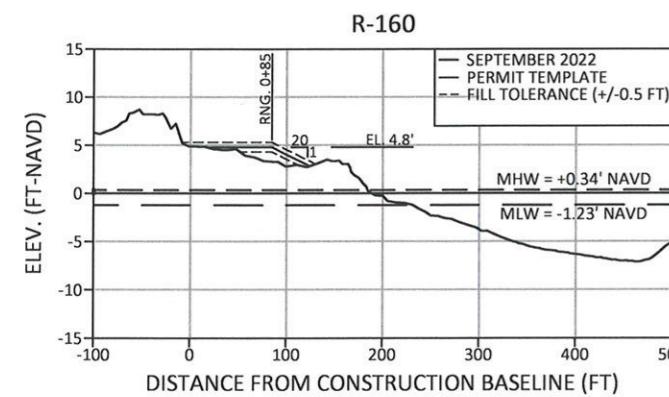
DREDGING PROJECT
PINELLAS COUNTY, FLORIDA

PASS-A-GRILLE
DISPOSAL AREA 2 OF 2

DRAWING NO.
MS-3
SHEET 10 OF 13

Apitm Environmental & Infrastructure, LLC
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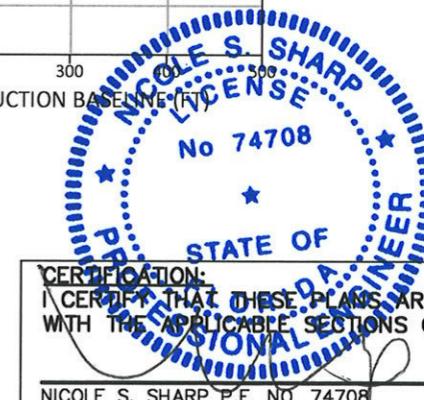
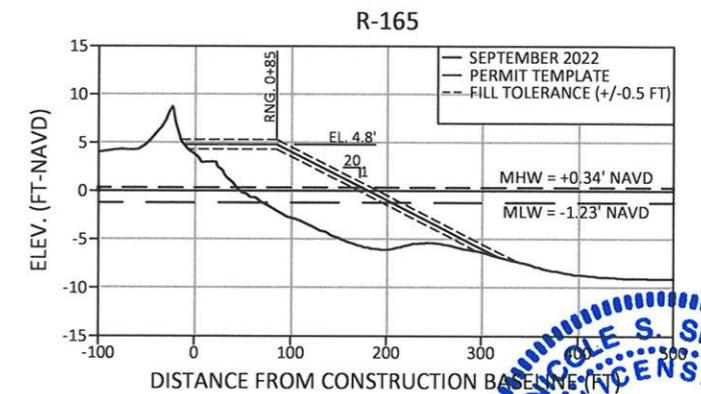
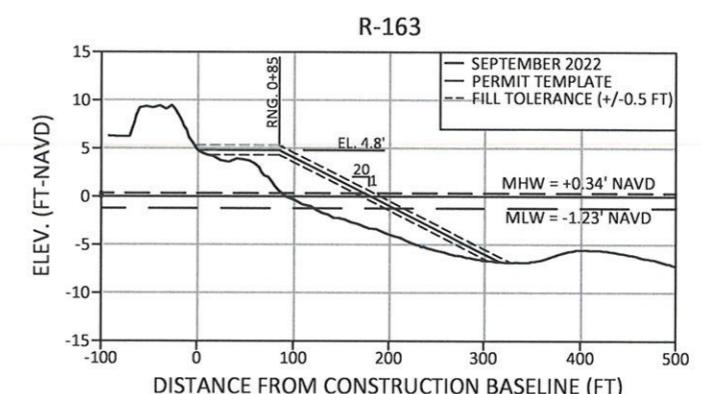
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FAX (561) 391-9116
C.O.A., FL #9317



PLACEMENT AREA CROSS SECTION STA 12+00 TO 16+00 (TYP.)

NOTES:

1. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. BEACH PROFILE SURVEYS CONDUCTED SEPTEMBER 2022 BY USACE.
3. RANGES ARE REFERENCED TO THE CONSTRUCTION BASELINE SHOWN ON THE PLAN SHEET.
4. THE VERTICAL TOLERANCE IS +/- 0.5 FT AS FURTHER DESCRIBED IN THE TECHNICAL SPECIFICATIONS.
5. ALL CROSS SECTIONS SHALL BE SURVEYED AT AN AZIMUTH PERPENDICULAR TO THE CONSTRUCTION BASELINE. REFER TO PLAN SHEET FOR TAPERING INTO EXISTING BEACH.



Aptim Environmental & Infrastructure, LLC

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FAX (561) 391-9116
C.O.A. FL. #8317

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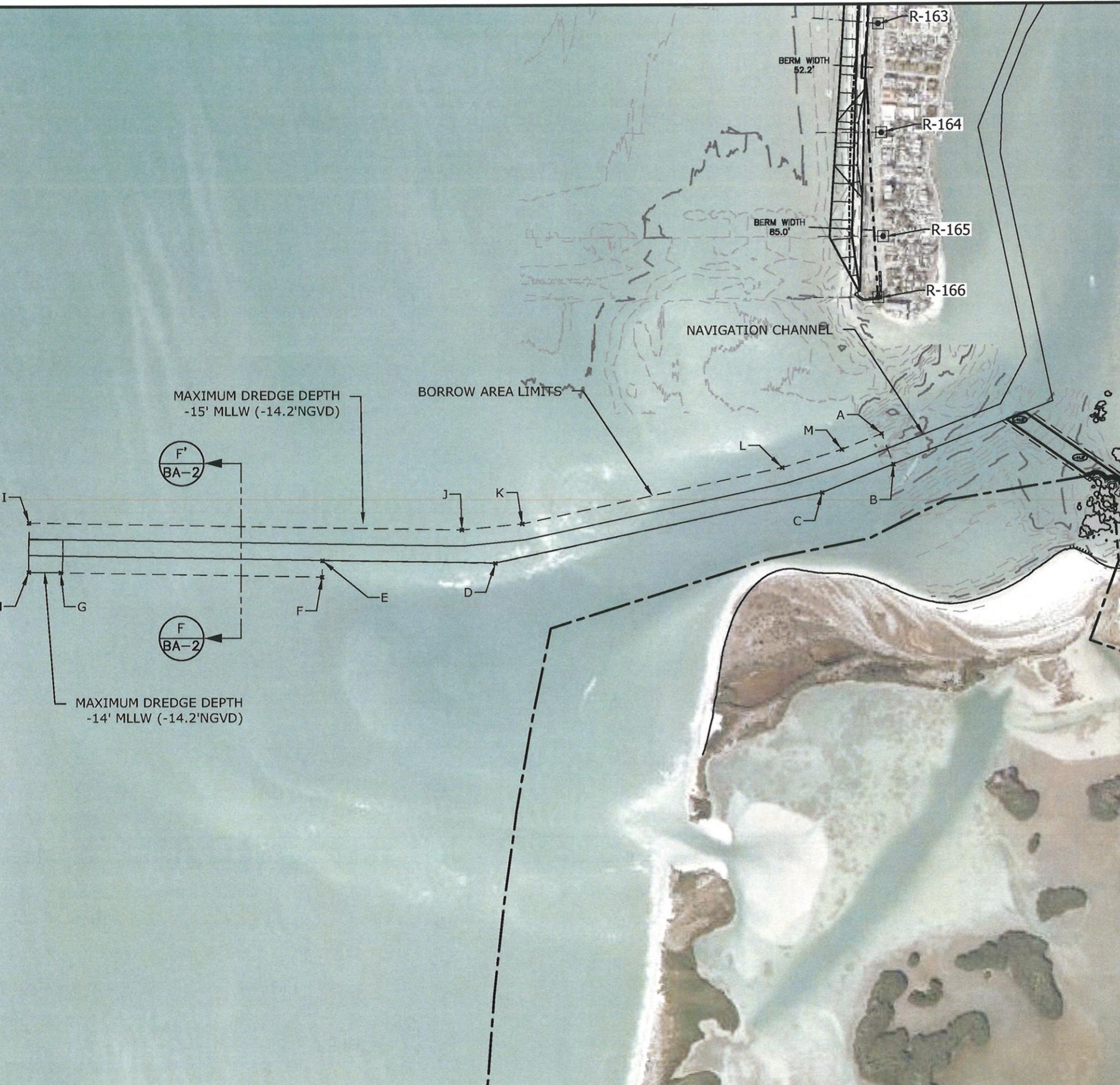
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LEGEND:

- NAVIGATION CHANNEL
- BORROW AREA LIMITS
- 2023 SEAGRASS EDGE
- (-10') DREDGE ELEVATION

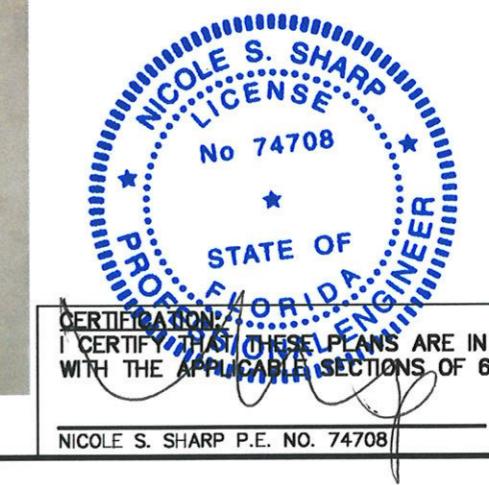
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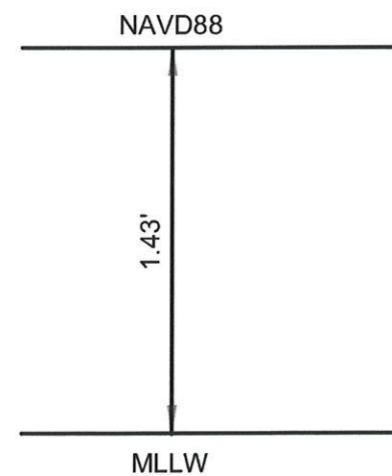
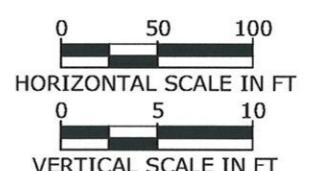
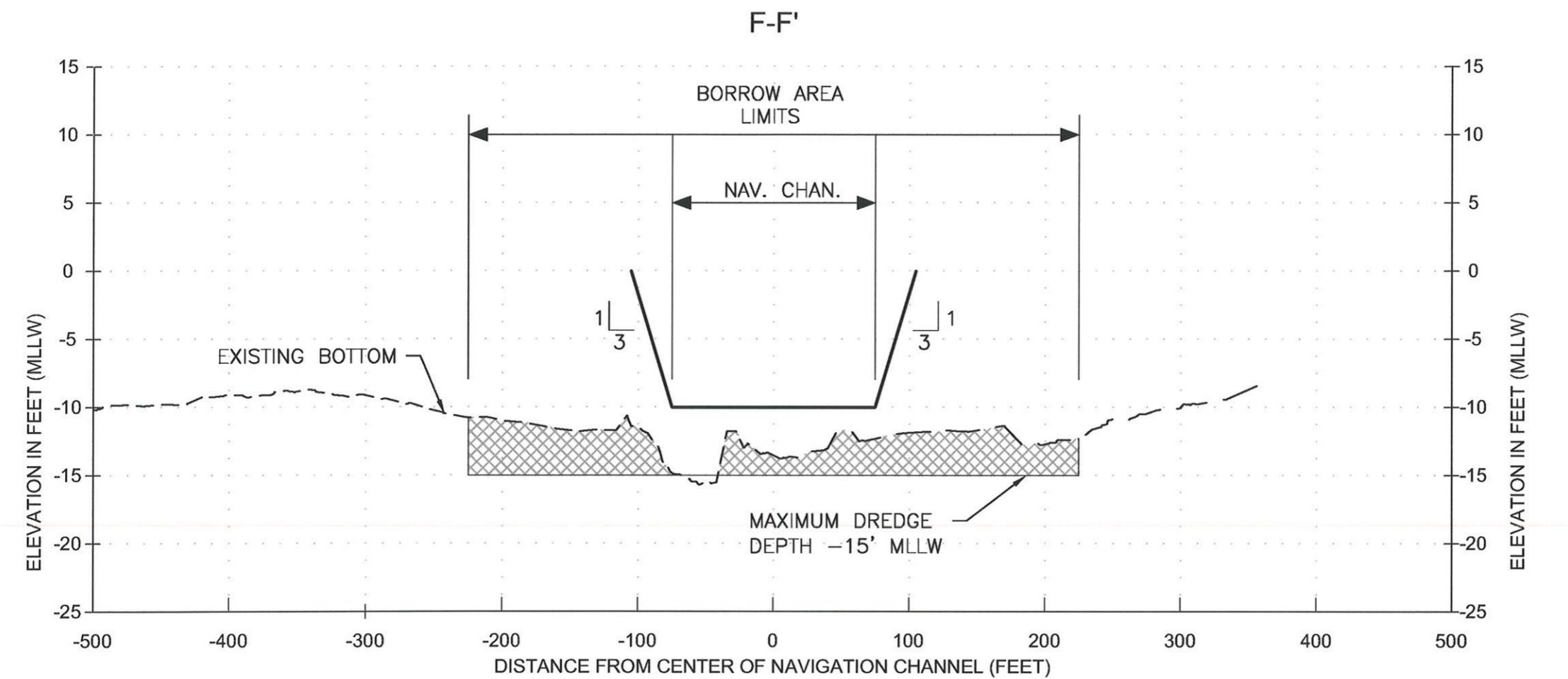
1. PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE, SEE SHEETS DA-2 AND DA-3.
2. THE SEAGRASS SURVEY PERFORMED BY APTIM, SEPTEMBER 25 TO OCTOBER 03 2023 AS SHOWN HEREON.

USACE NOTE:

1. REFER TO PLATE 03 FOR GENERAL NOTES AND LEGEND (USACE)

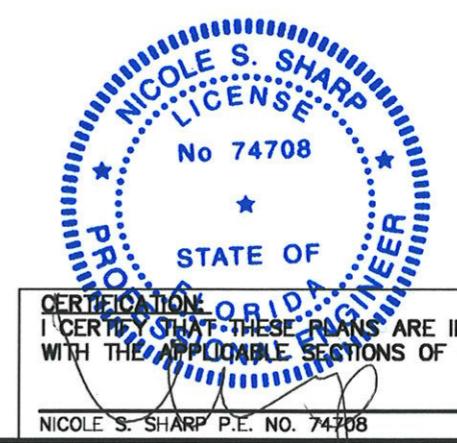
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GRAND CANAL MAINTENANCE DREDGING PROJECT PINELLAS COUNTY, FLORIDA PASS-A-GRILLE CHANNEL BORROW AREA																									
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DRAWING NO. BA-1																									
SHEET 12 OF 13																									





NOTE:

1. REFER TO PLATE 03 FOR GENERAL NOTES AND LEGEND (USACE)
2. MAXIMUM DREDGING DEPTH IS SHOWN.
3. PINELLAS COUNTY HYDROGRAPHIC AND TOPOGRAPHIC SURVEY CONDUCTED APRIL 13 THRU 22 & 27 2022 BY USACE, SEE SHEETS DA-2 AND DA-3.



REVISIONS	
Designed by: ECB	Checked by: TP
Drawn by: JEB	Revised by: TP
Date: 08/08/23	Submitted by: TP
Print Scale: AS NOTED	Comm. No.: 631014493
No. Date	Description

DRAWING NO. BA-2

SHEET 13 OF 13