

RESOLUTION NUMBER 24-160

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF FORT MYERS BEACH, AUTHORIZING TOWN STAFF TO SUBMIT A FUNDING REQUEST TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE ESTERO ISLAND SHORE PROTECTION PROJECT; AND AUTHORIZING LOCAL MATCHING FUNDS FOR FUNDING RECEIVED FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, Florida Statutes provide that municipalities shall have the governmental, corporate, and proprietary powers to enable them to conduct municipal government, perform municipal functions, and render municipal service, and exercise any power for municipal purposes, except when expressly prohibited by law; and

WHEREAS, Article X of the Town Charter of the Town of Fort Myers Beach (“Town”) empowers the Town to adopt, amend, or repeal such ordinances and resolutions as may be required for the proper governing of the Town; and

WHEREAS, Estero Island’s coastal beach, which is among the Town of Fort Myers Beach (“Town”) most important ecological, economic, and recreational assets, is subject to erosion that results in detrimental impacts to nesting and wintering areas for wildlife species such as sea turtles and shorebirds; loss of outdoor recreational opportunities for the Town’s residents and visitors; and damage to and loss of public and private property; and

WHEREAS, beach erosion control and restoration projects are an effective tool for preventing and offsetting some of the negative impacts of beach erosion, including loss of habitat, loss of recreational opportunities, and endangerment of public and private property; and

WHEREAS, the Town Council finds that beach erosion control and restoration projects are in the public interest and in the best interest of the health, safety, and welfare of the residents, property owners and visitors of the Town of Fort Myers Beach.

NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE TOWN OF FORT MYERS BEACH AS FOLLOWS:

Section 1. The above recitals are true and correct and are hereby incorporated by reference as though fully set forth herein.

Section 2. The Town Council expresses its support for the Estero Island Beach Nourishment Project (the “Project”), described in Exhibit “A”, a copy of which is attached hereto and made a part of this Resolution.

Section 3. To conserve sand resources and/or reduce Project costs the Town supports regionalization of the Project and work with Lee County to coordinate bidding and construction of the Project where possible.

Section 4. The Town authorizes Town staff to take all necessary actions to request and obtain funds from the Florida Department of Environmental Protection for the Project and will provide matching funds/local cost share for the Project and serve as local sponsor for the Project including matching funds from the Town Beach Restoration Reserves and Lee County Tourist Development Council.

Section 5. This Resolution shall become effective immediately upon its adoption.

The foregoing Resolution was adopted by the Town Council upon a motion by Council Member King and seconded by Council Member Safford, and upon being put to a roll call vote, the result was as follows:

Dan Allers, Mayor	Aye
Jim Atterholt, Vice Mayor	Aye
John King, Council Member	Aye
Scott Safford, Council Member	Aye
Karen Woodson, Council Member	Aye

ADOPTED this 19th day of August 2024 by the Town Council of the Town of Fort Myers Beach, Florida.

TOWN OF FORT MYERS BEACH

Dan Allers
Dan Allers (Aug 19, 2024 16:42 EDT)
Dan Allers, Mayor

ATTEST:

Amy Baker
Amy Baker (Aug 20, 2024 09:26 EDT)
Amy Baker, Town Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE USE AND RELIANCE OF THE TOWN OF FORT MYERS BEACH SOLELY:

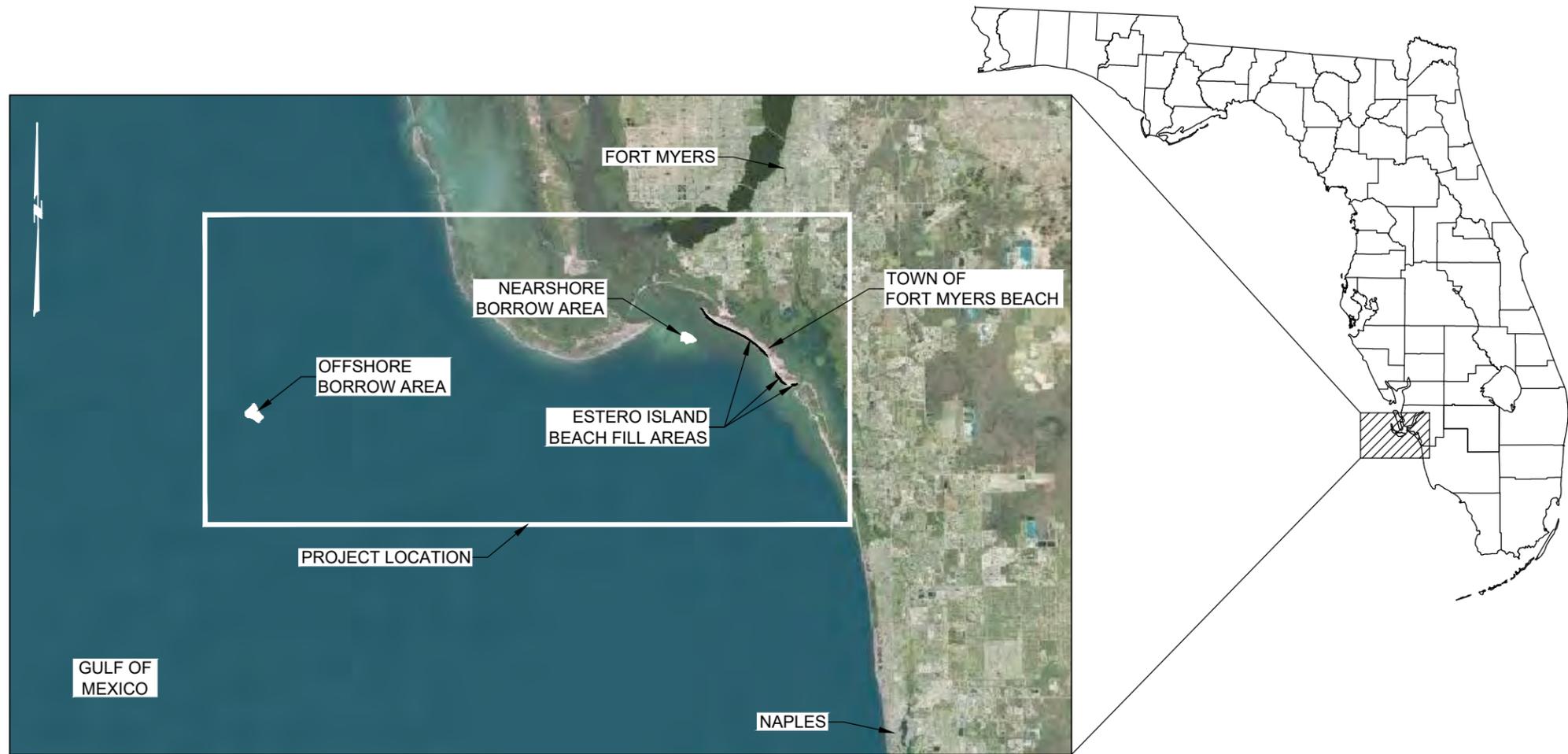
Nancy Stuparich
Nancy Stuparich (Aug 15, 2024 19:46 EDT)
Vose Law Firm, Town Attorney

This Resolution was filed in the Office of the Town Clerk on this 19th day of August 2024.

ESTERO ISLAND SHORE PROTECTION PROJECT CONTRACT PLANS

SHEET INDEX

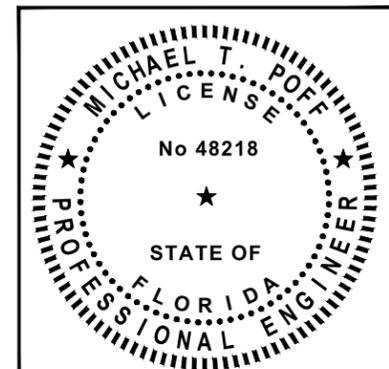
- 1 COVER SHEET
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- 3 SURVEY CONTROL
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PROJECT LOCATION
N.T.S.

NOTES

1. SURVEYS FOR NORTH-CENTRAL AND SOUTH ESTERO ISLAND CONDUCTED BY COASTAL ENGINEERING CONSULTANTS, INC. (CEC), JUNE 2023.
2. OFFSHORE BORROW AREA SURVEY CONDUCTED BY OCEAN SURVEYS, INC. (OSI), JULY 2021. NEARSHORE BORROW AREA SURVEY CONDUCTED BY OSI, NOVEMBER 2021.
3. OFFSHORE BORROW AREA GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA INTERNATIONAL (GFA) AND AMDRILL, INC., 2020 AND 2021.
4. NEARSHORE PIPELINE CORRIDOR - NORTH BATHYMETRIC SURVEY CONDUCTED BY OSI, JULY 2021. NEARSHORE PIPELINE CORRIDOR - SOUTH BATHYMETRIC SURVEY CONDUCTED BY OSI, NOVEMBER 2021.
5. OFFSHORE PIPELINE CORRIDOR - MAIN BATHYMETRIC SURVEYS CONDUCTED BY OSI IN JULY 2021. OFFSHORE PIPELINE CORRIDOR - NORTH AND SOUTH BATHYMETRIC SURVEYS CONDUCTED BY SONOGRAPHICS INC. IN JUNE 2023.
6. NEARSHORE BORROW AREA GEOTECHNICAL INVESTIGATION CONDUCTED BY COASTAL PLANNING AND ENGINEERING, INC (CPE), AUGUST 2000.
7. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1988 (NAD83).
8. ELEVATIONS SHOWN HEREON ARE IN FEET AND TENTHS AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 GEOID18
9. MEAN HIGH WATER ELEVATION OF +0.3 FEET NAVD88 IS BASED ON THE INFORMATION FROM THE FDEP AND TIDE STATION ID NUMBER 8727366.
10. EROSION CONTROL LINE (ECL) OBTAINED FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ON 1/28/2020, FILE NAME: ECL2505.SHP.
11. BACKGROUND IMAGE FROM LEE COUNTY MRSID ORTHOPHOTO IMAGE TILES, JANUARY 05-29, 2023.
12. HYDROGRAPHIC SURVEY ACCURACIES AND PROCEDURES ARE IN ACCORDANCE WITH GENERAL SURVEY STANDARDS, AS DEFINED BY THE U.S. ARMY CORPS OF ENGINEERS, HYDROGRAPHIC SURVEY MANUAL.
13. INFORMATION SHOWN HEREON REFLECTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATES SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.



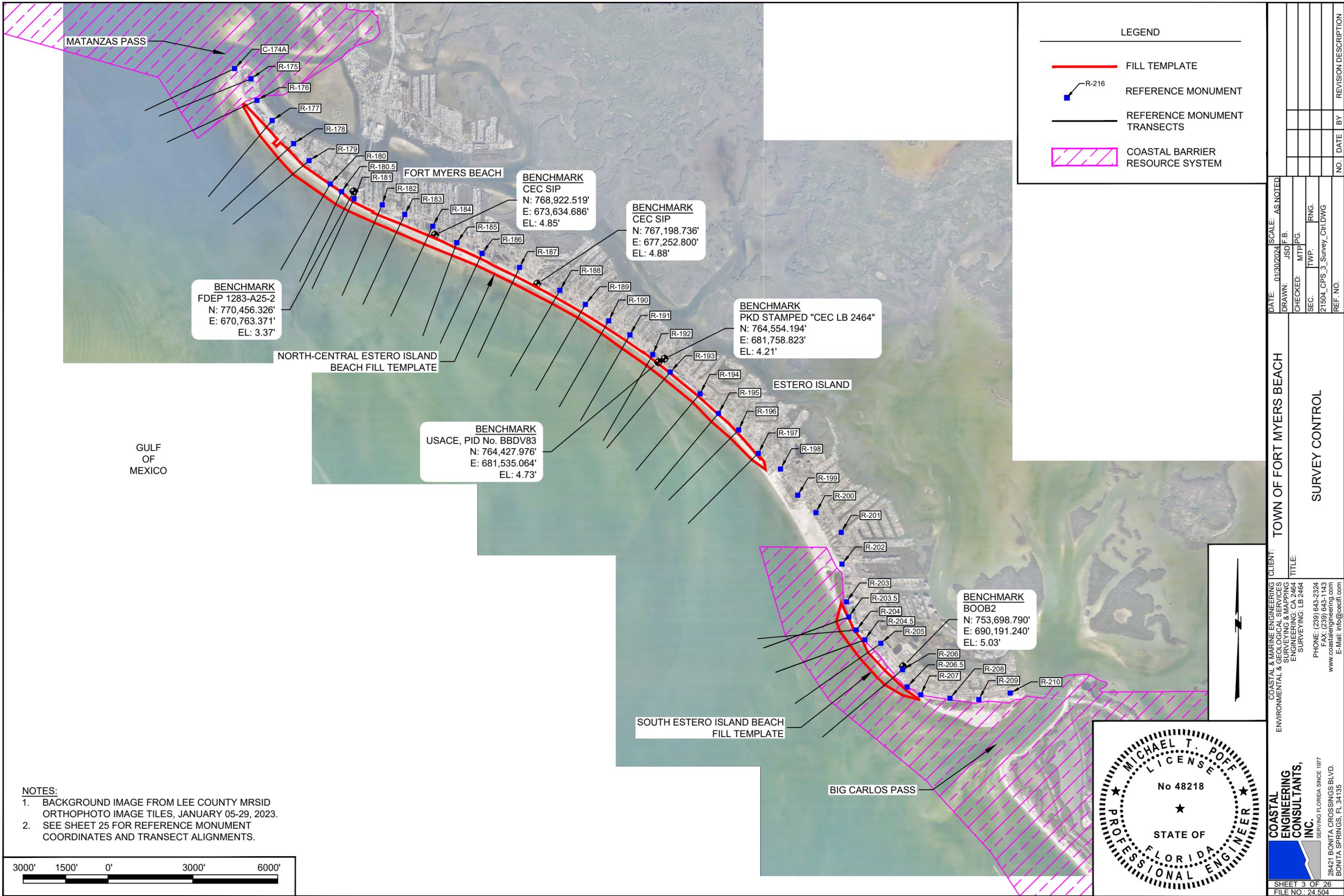
COASTAL ENGINEERING CONSULTANTS, INC.
SERVING FLORIDA SINCE 1977
28421 BONITA CROSSINGS BLVD.
BONITA SPRINGS, FL 34135

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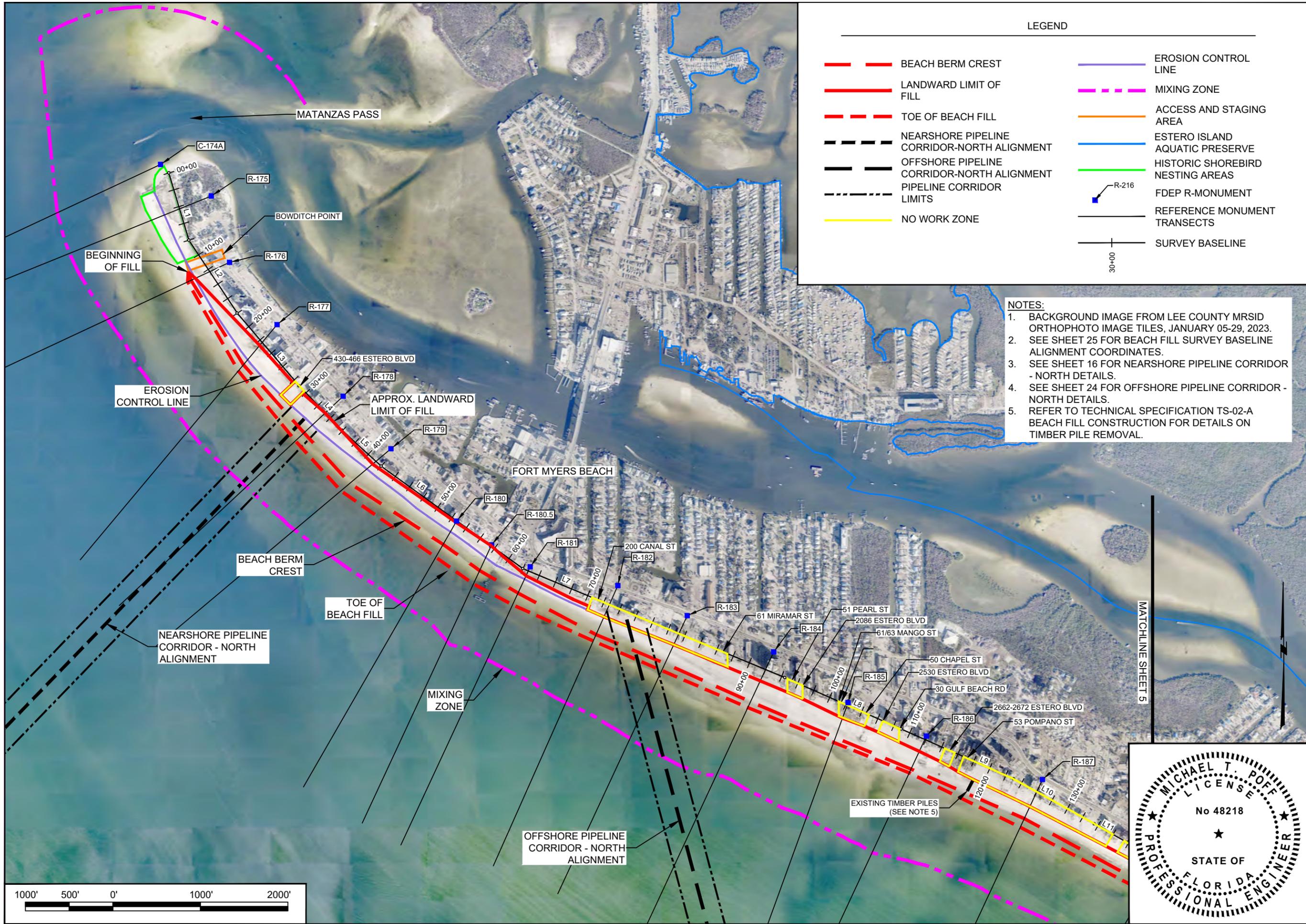
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TITLE:	COVER SHEET

COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464
PHONE: (239) 643-2324
FAX: (239) 643-1143
www.coastalengineering.com
E-Mail: info@cecifl.com

NO.	DATE	BY	REVISION DESCRIPTION



DATE:	01/30/2024	SCALE:	AS NOTED
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LEGEND

	BEACH BERM CREST		EROSION CONTROL LINE
	LANDWARD LIMIT OF FILL		MIXING ZONE
	TOE OF BEACH FILL		ACCESS AND STAGING AREA
	NEARSHORE PIPELINE CORRIDOR-NORTH ALIGNMENT		ESTERO ISLAND AQUATIC PRESERVE
	OFFSHORE PIPELINE CORRIDOR-NORTH ALIGNMENT		HISTORIC SHOREBIRD NESTING AREAS
	PIPELINE CORRIDOR LIMITS		FDEP R-MONUMENT
	NO WORK ZONE		REFERENCE MONUMENT TRANSECTS
			SURVEY BASELINE

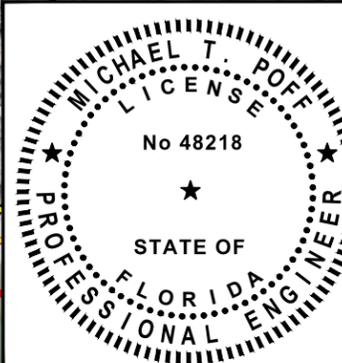
- NOTES:**
1. BACKGROUND IMAGE FROM LEE COUNTY MRSID ORTHOPHOTO IMAGE TILES, JANUARY 05-29, 2023.
 2. SEE SHEET 25 FOR BEACH FILL SURVEY BASELINE ALIGNMENT COORDINATES.
 3. SEE SHEET 16 FOR NEARSHORE PIPELINE CORRIDOR - NORTH DETAILS.
 4. SEE SHEET 24 FOR OFFSHORE PIPELINE CORRIDOR - NORTH DETAILS.
 5. REFER TO TECHNICAL SPECIFICATION TS-02-A BEACH FILL CONSTRUCTION FOR DETAILS ON TIMBER PILE REMOVAL.

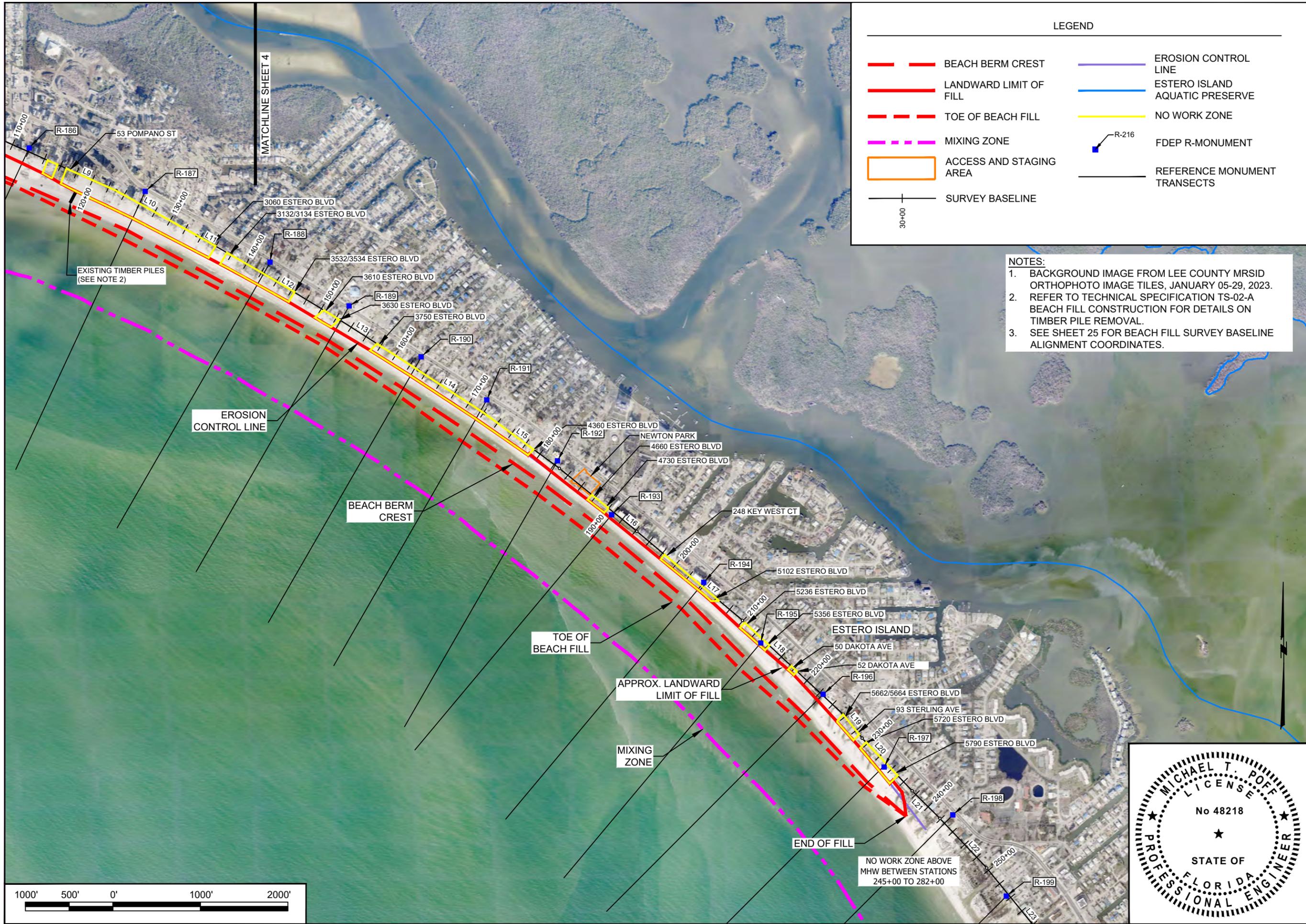
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CHECKED:	MTP/P.G.
SEC:	TWP.
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COASTAL ENGINEERING CONSULTANTS, INC.
 SERVING FLORIDA SINCE 1977
 28421 BONITA CROSSINGS BLVD.
 BONITA SPRINGS, FL 34135

SHEET 4 OF 26
 FILE NO.: 24.504





LEGEND

- BEACH BERM CREST
- LANDWARD LIMIT OF FILL
- TOE OF BEACH FILL
- MIXING ZONE
- ACCESS AND STAGING AREA
- SURVEY BASELINE
- EROSION CONTROL LINE
- ESTERO ISLAND AQUATIC PRESERVE
- NO WORK ZONE
- R-216 FDEP R-MONUMENT
- REFERENCE MONUMENT TRANSECTS

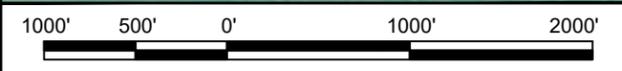
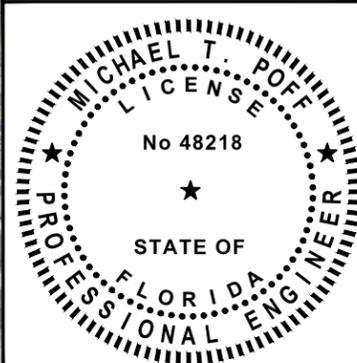
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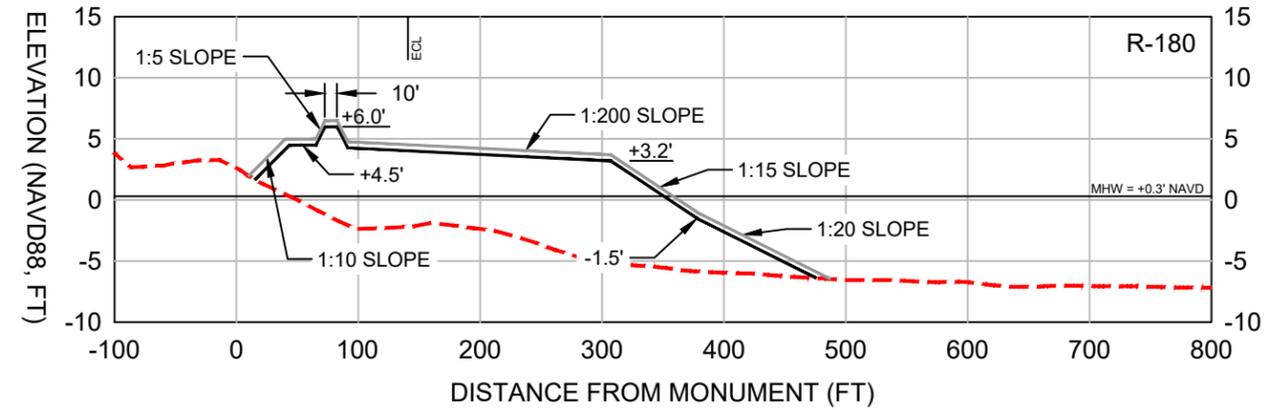
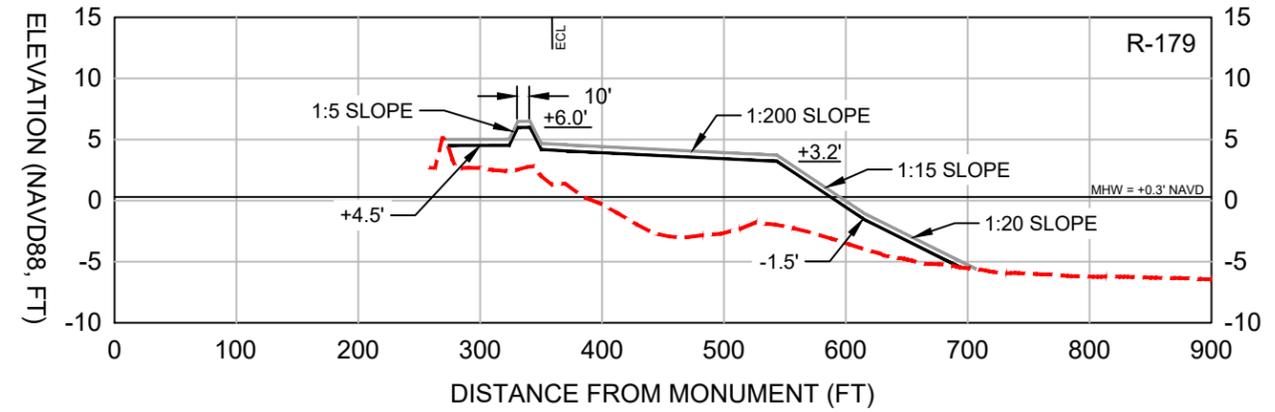
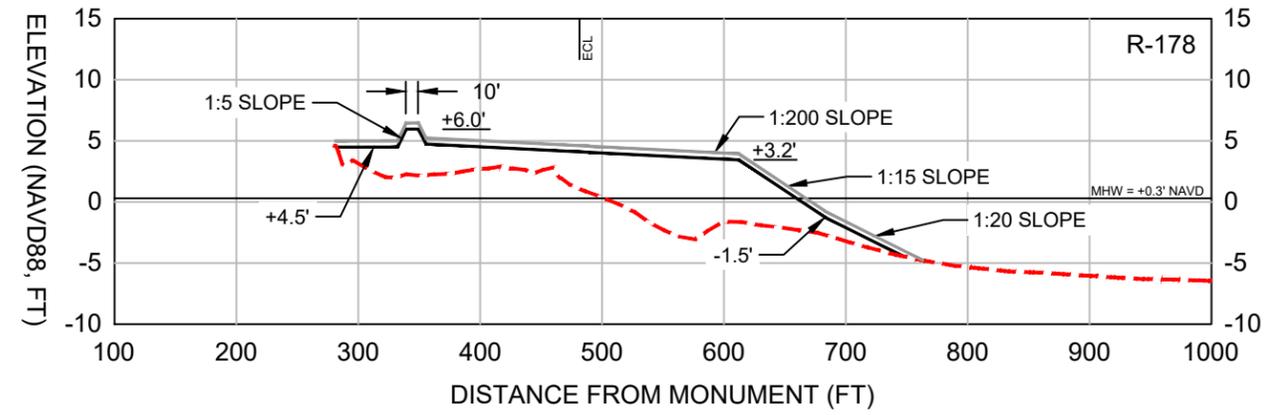
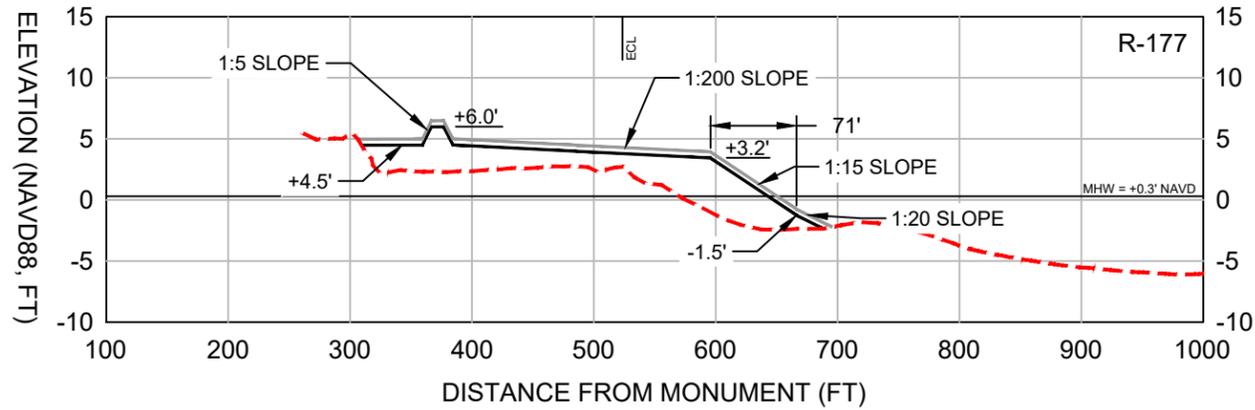
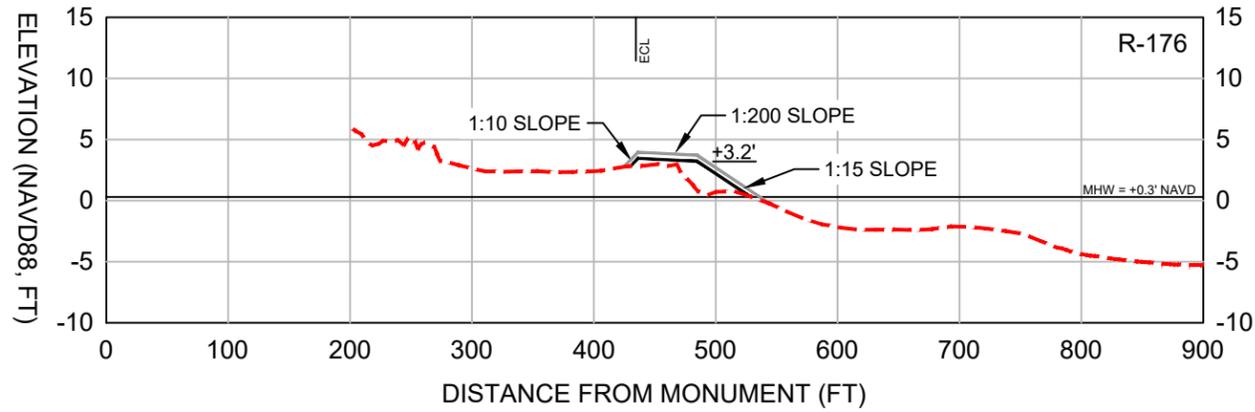
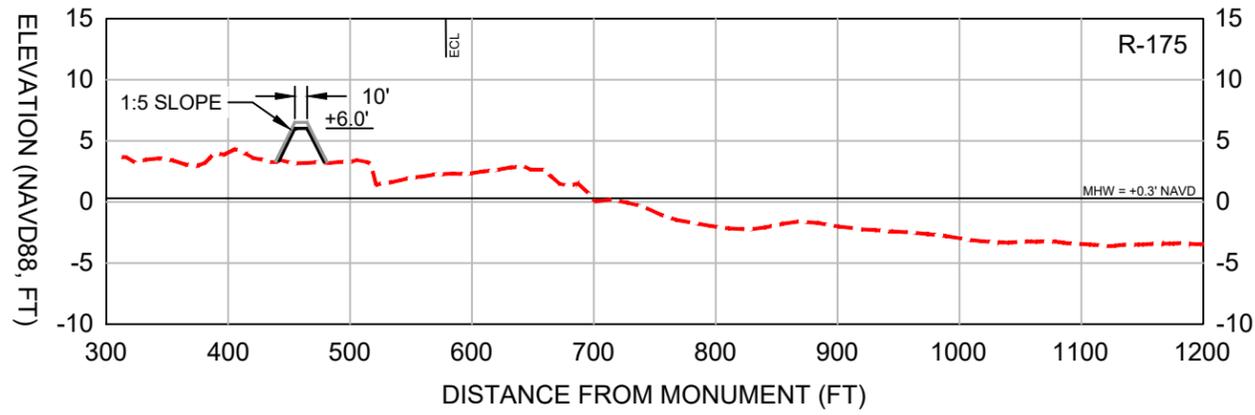
- BACKGROUND IMAGE FROM LEE COUNTY MRSID ORTHOPHOTO IMAGE TILES, JANUARY 05-29, 2023.
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- SEE SHEET 25 FOR BEACH FILL SURVEY BASELINE ALIGNMENT COORDINATES.

CLIENT: TOWN OF FORT MYERS BEACH	DATE: 1/30/2024	SCALE: AS NOTED	
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			REVISION DESCRIPTION:

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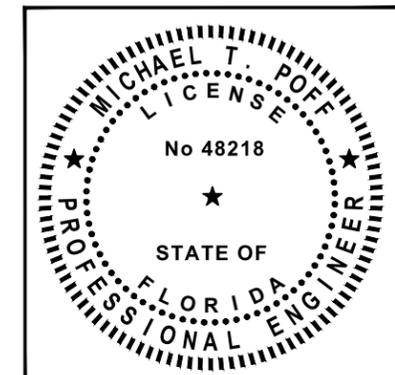
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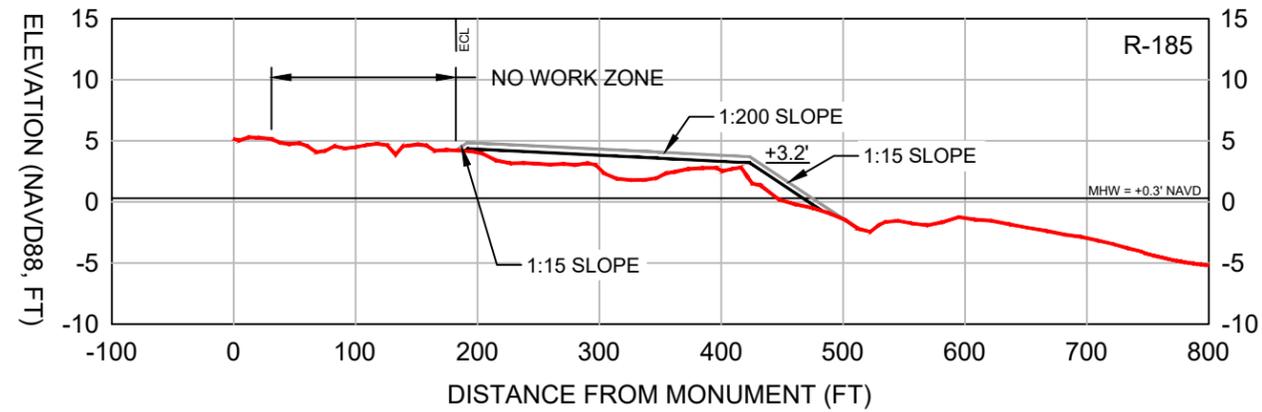
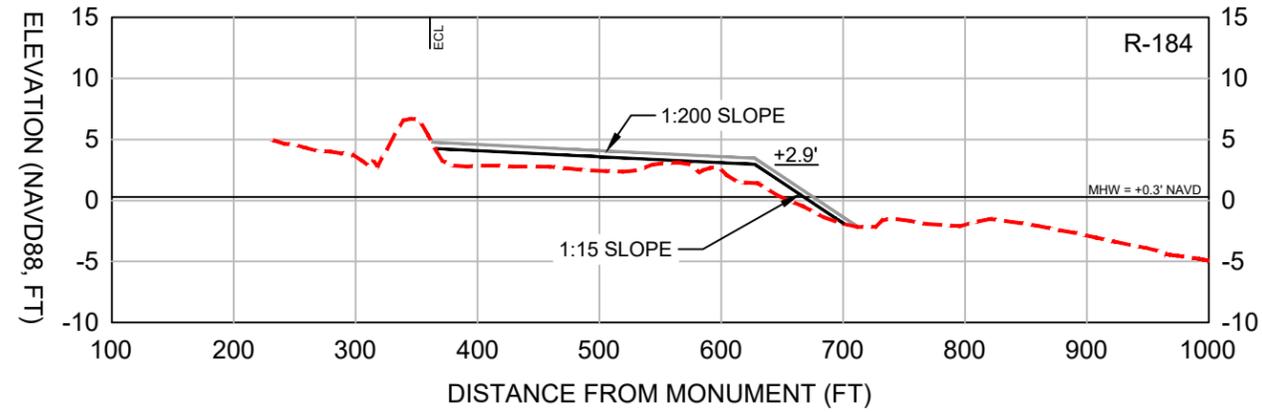
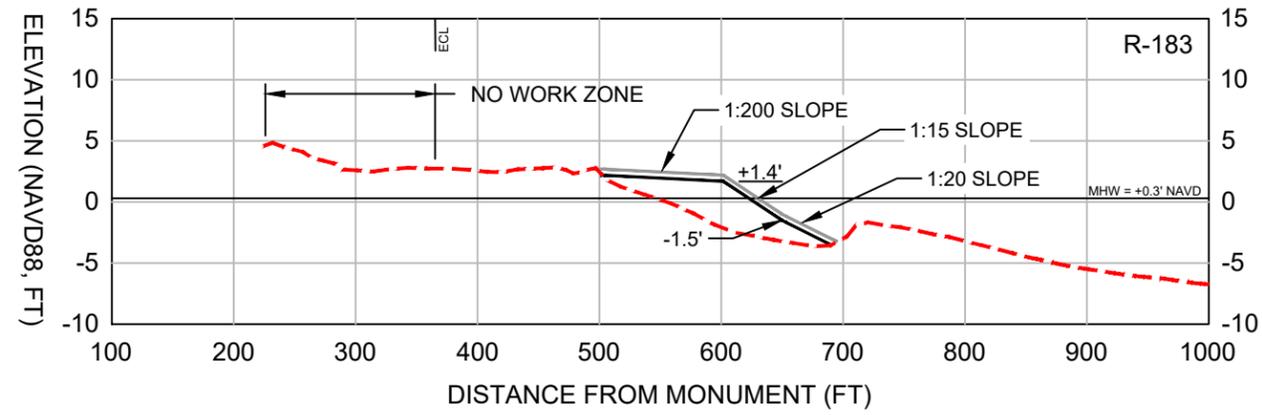
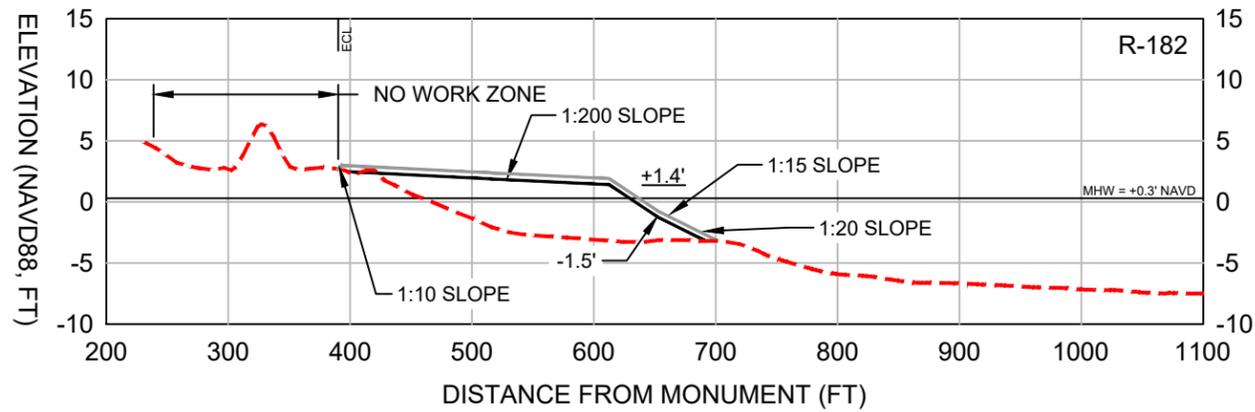
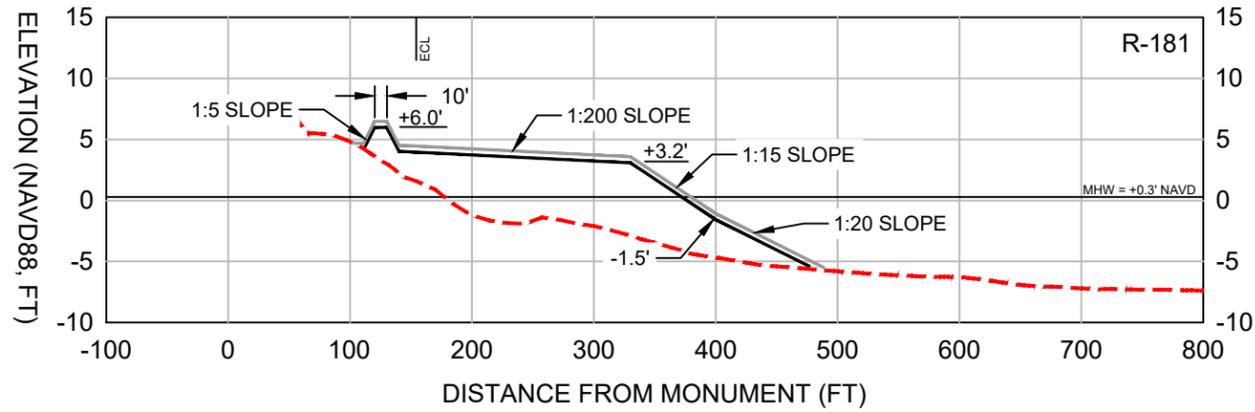
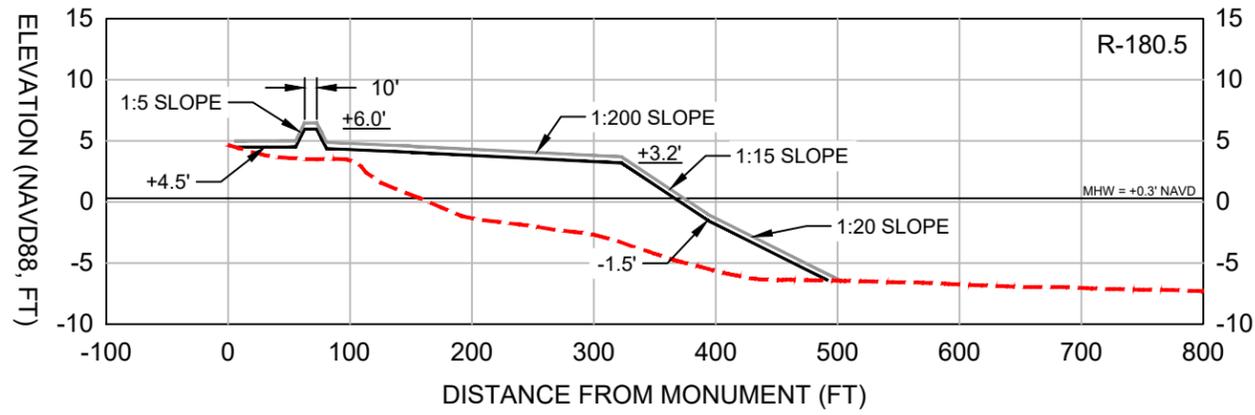
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SCALE:
H: 1" = 150'
V: 1" = 15'

- NOTES:
1. TOPOGRAPHIC AND BATHYMETRIC DATA COLLECTED BY CEC, JUNE 2023.
 2. SEE SHEETS 3 AND 25 FOR SURVEY TRANSECT ALIGNMENT.



DATE: 1/30/2024		SCALE: AS NOTED	
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REF. NO.	NO.	DATE	BY
TOWN OF FORT MYERS BEACH			
NORTH ESTERO ISLAND			
FILL TEMPLATE PROFILES			
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING, CA 2464 SURVEYING, LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@ceciff.com			
SHEET 6 OF 26 FILE NO.: 24.504			



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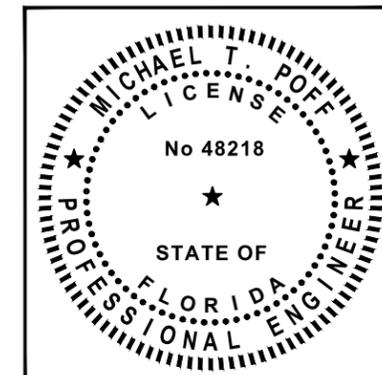
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BY		REVISION DESCRIPTION	

CLIENT: TOWN OF FORT MYERS BEACH

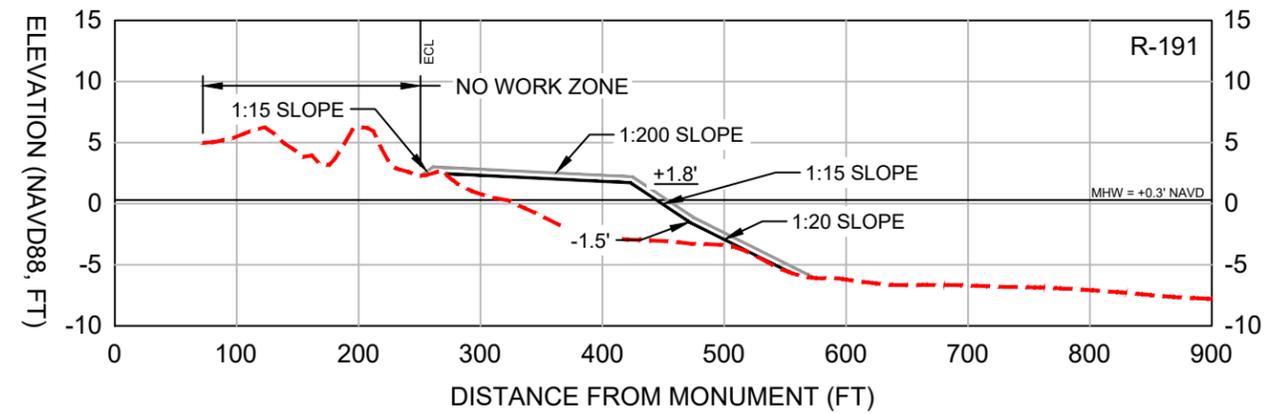
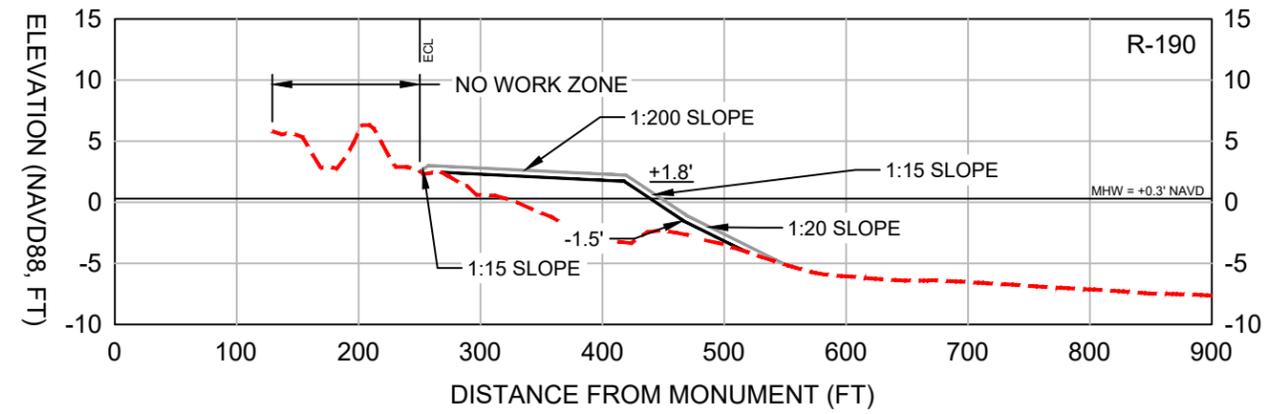
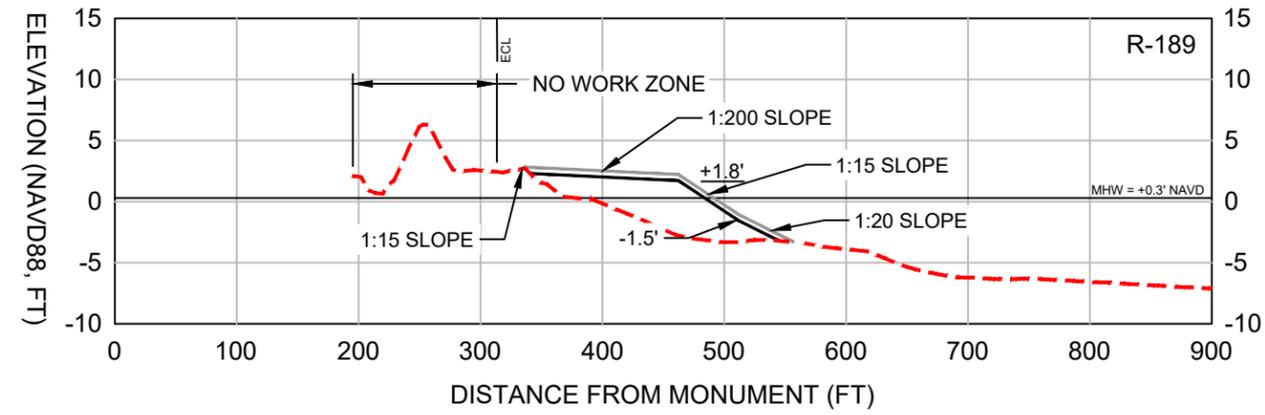
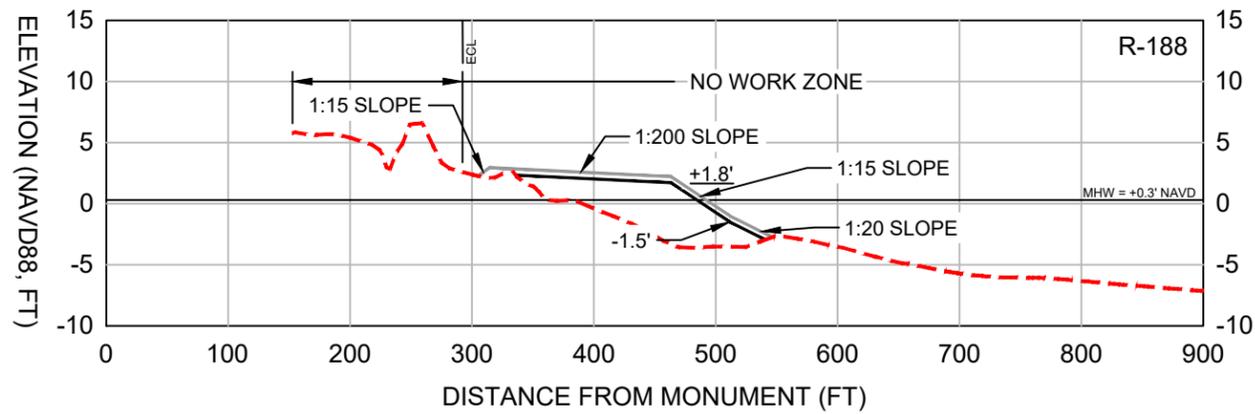
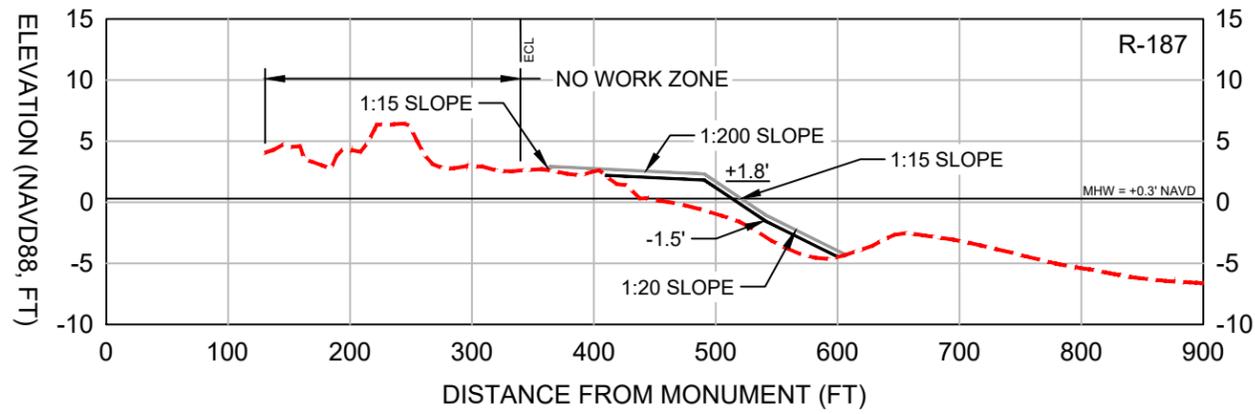
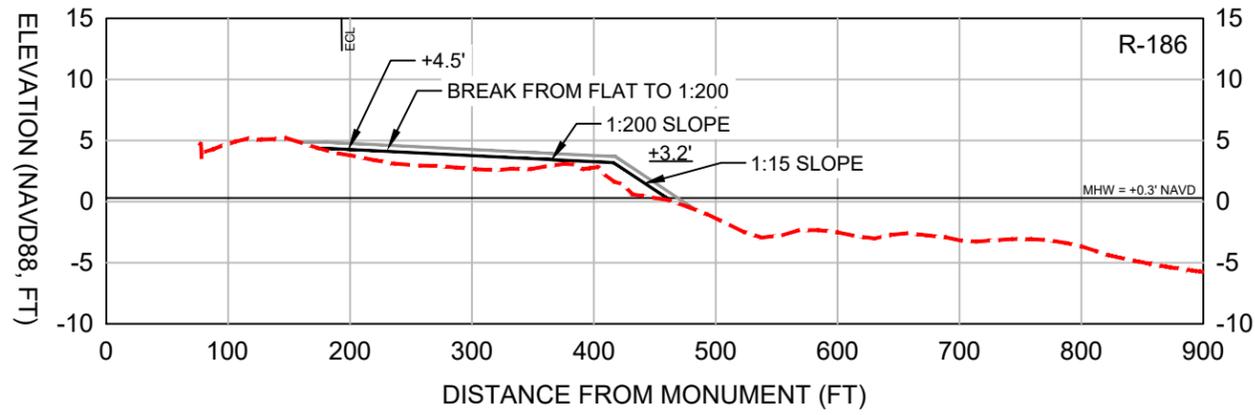
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COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464

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FAX: (239) 643-1143
www.coastalengineering.com
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INC. SERVING FLORIDA SINCE 1977
28421 BONITA CROSSINGS BLVD.
BONITA SPRINGS, FL 34135

SHEET 7 OF 26
FILE NO.: 24.504



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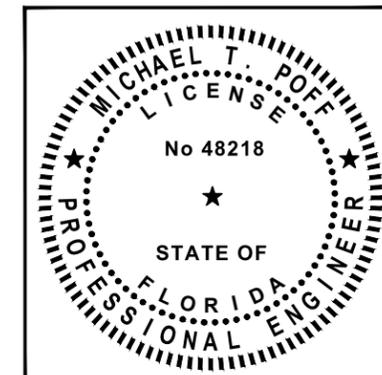
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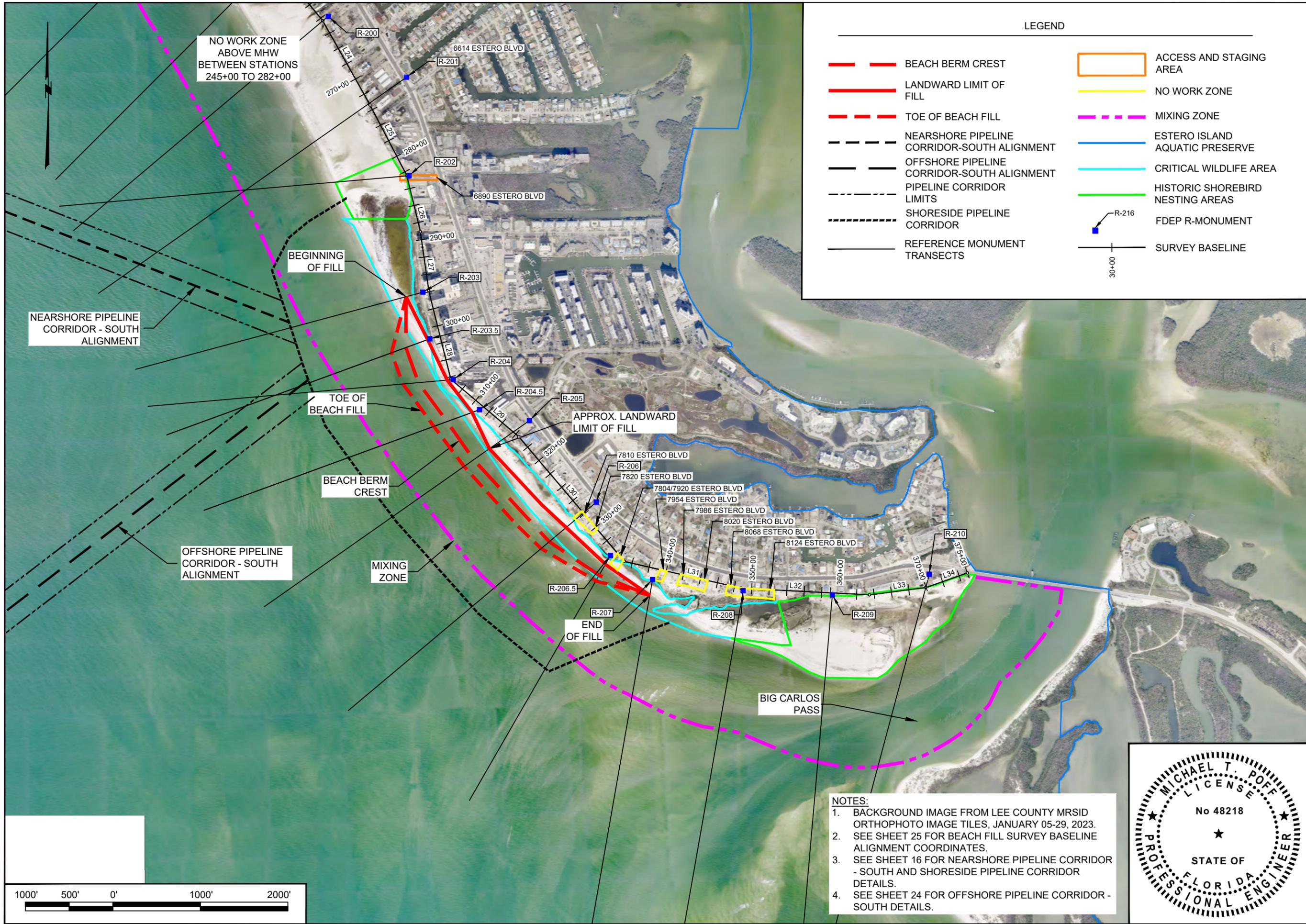
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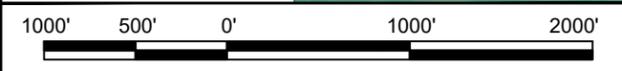


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CLIENT: TOWN OF FORT MYERS BEACH			
TITLE: CENTRAL ESTERO ISLAND FILL TEMPLATE PROFILES			
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464			
PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@cecifl.com			
SERVING FLORIDA SINCE 1977			
28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135			
SHEET 8 OF 26			
FILE NO.: 22.504			

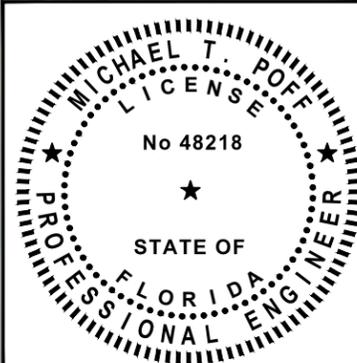


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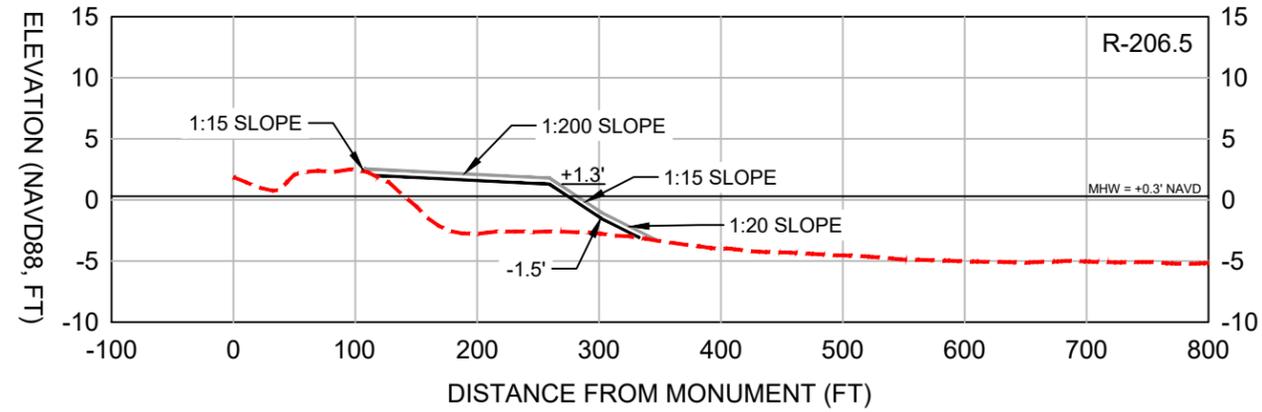
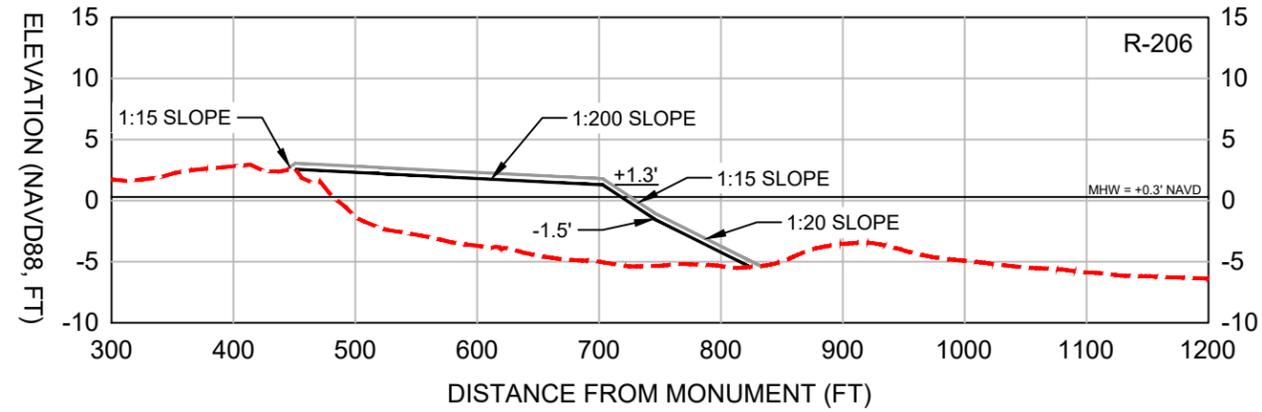
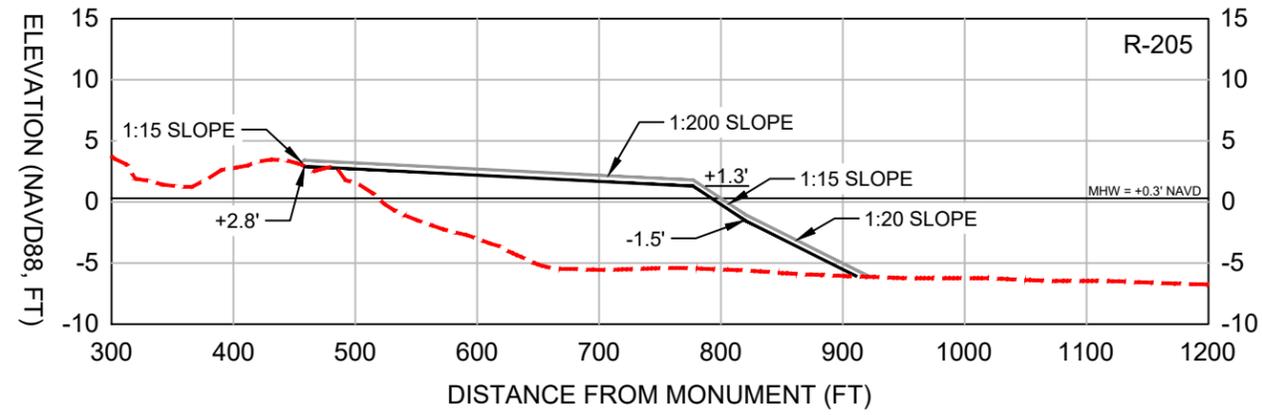
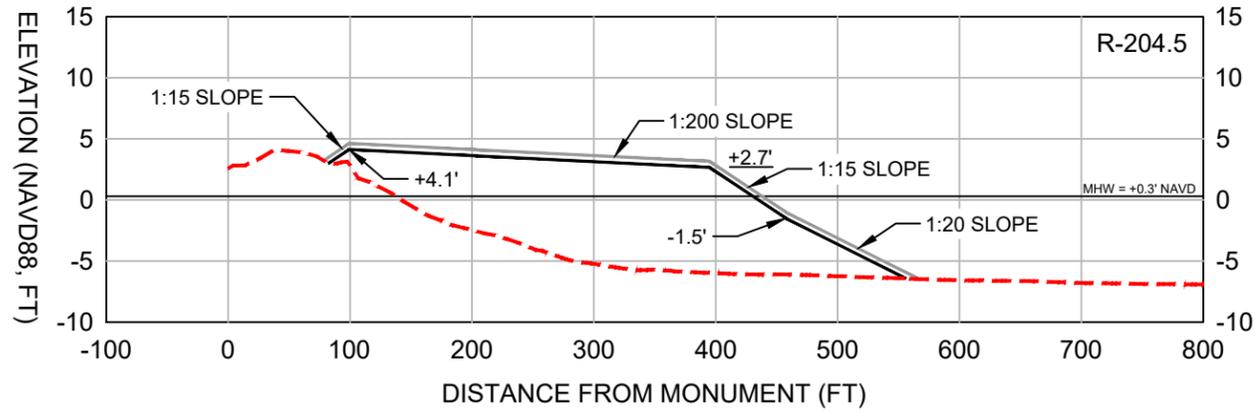
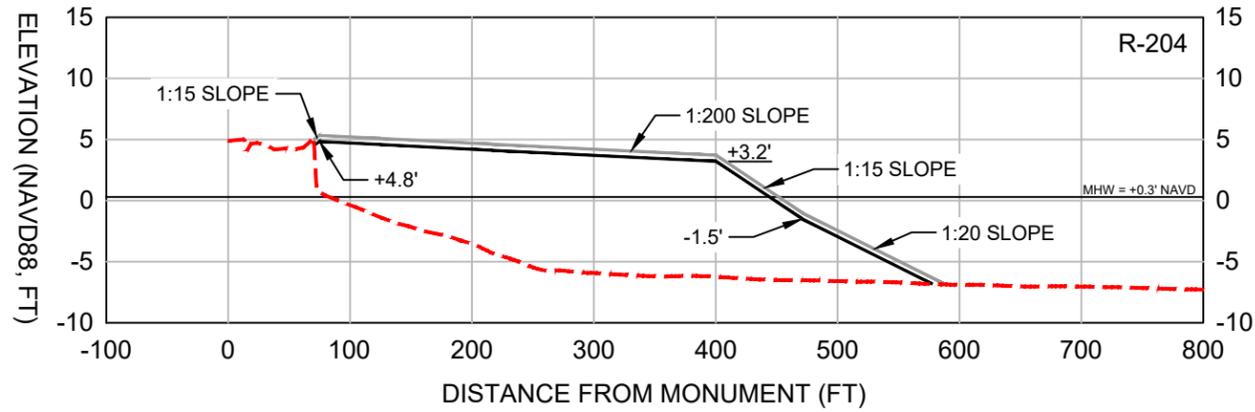
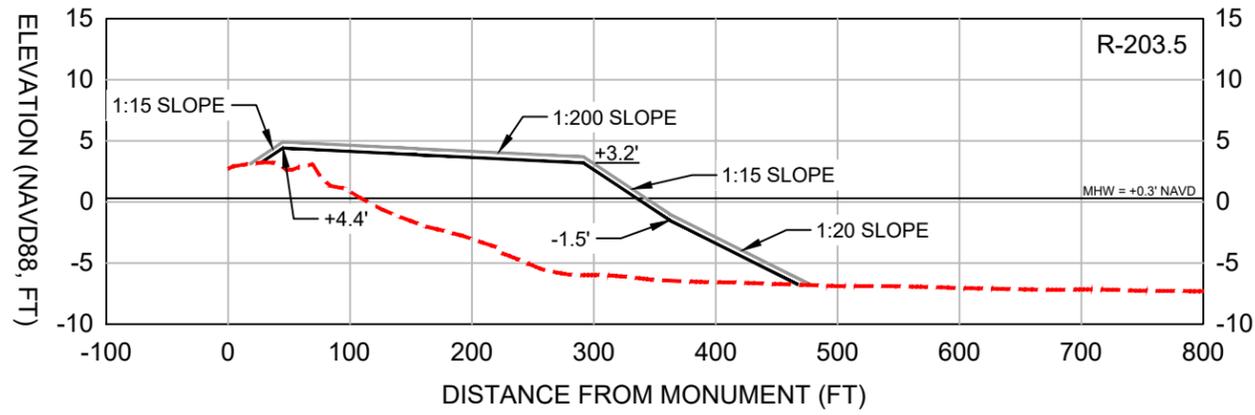
	BEACH BERM CREST		ACCESS AND STAGING AREA
	LANDWARD LIMIT OF FILL		NO WORK ZONE
	TOE OF BEACH FILL		MIXING ZONE
	NEARSHORE PIPELINE CORRIDOR-SOUTH ALIGNMENT		ESTERO ISLAND AQUATIC PRESERVE
	OFFSHORE PIPELINE CORRIDOR-SOUTH ALIGNMENT		CRITICAL WILDLIFE AREA
	PIPELINE CORRIDOR LIMITS		HISTORIC SHOREBIRD NESTING AREAS
	SHORESIDE PIPELINE CORRIDOR		FDEP R-MONUMENT
	REFERENCE MONUMENT TRANSECTS		SURVEY BASELINE



- NOTES:**
1. BACKGROUND IMAGE FROM LEE COUNTY MRSID ORTHOPHOTO IMAGE TILES, JANUARY 05-29, 2023.
 2. SEE SHEET 25 FOR BEACH FILL SURVEY BASELINE ALIGNMENT COORDINATES.
 3. SEE SHEET 16 FOR NEARSHORE PIPELINE CORRIDOR - SOUTH AND SHORESIDE PIPELINE CORRIDOR DETAILS.
 4. SEE SHEET 24 FOR OFFSHORE PIPELINE CORRIDOR - SOUTH DETAILS.



DATE: 1/30/2024 DRAWN: JSD/F.B. CHECKED: MTP/P.G. SEC: TWP. ACAD NO.: 21504_CPS_04-12_EBF_PVXS.DWG REF. NO.	SCALE: AS NOTED	CLIENT: TOWN OF FORT MYERS BEACH TITLE: SOUTH ESTERO ISLAND BEACH FILL PLAN VIEW	COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@cecifl.com	COASTAL ENGINEERING CONSULTANTS, INC. SERVING FLORIDA SINCE 1977 28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135	SHEET 10 OF 26 FILE NO.: 24.504
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LEGEND:

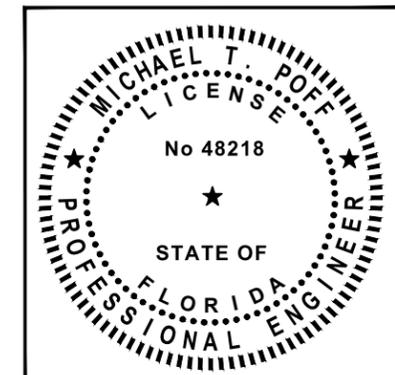
———— DESIGN

———— +0.5 FT CONSTRUCTION TOLERANCE

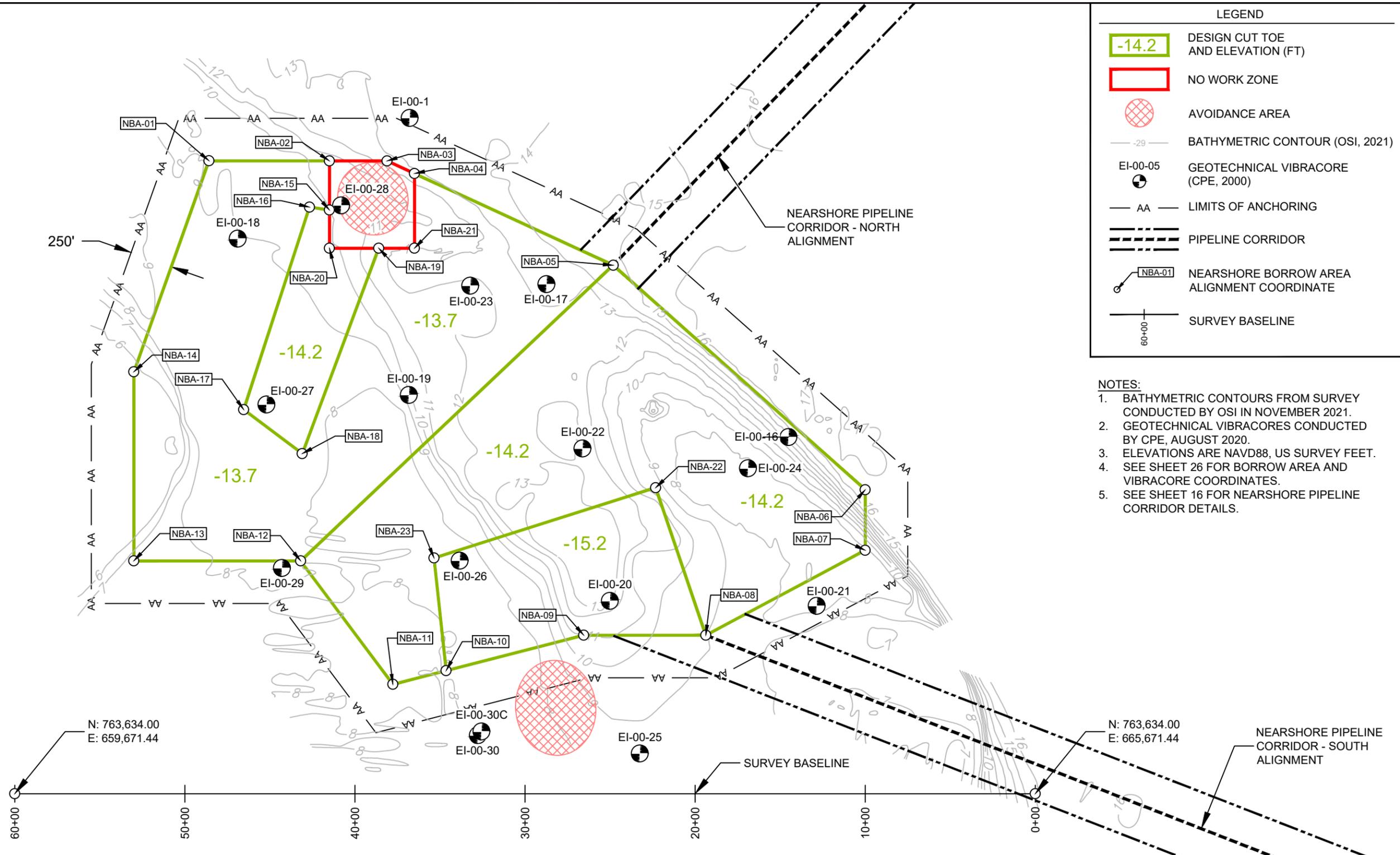
- - - - - EXISTING GRADE (2023)

SCALE:
H: 1" = 150'
V: 1" = 15'

- NOTES:
1. TOPOGRAPHIC AND BATHYMETRIC DATA COLLECTED BY CEC, JUNE 2023.
 2. SEE SHEETS 3 AND 25 FOR SURVEY TRANSECT ALIGNMENT.



DATE: 1/30/2024		SCALE: AS NOTED	
DRAWN: JSD		F.B.	
CHECKED: MTP		P.G.	
SEC:		TWP.	
ACAD NO.: 21504_CPS_04-12_EBF_PVXS.DWG		RNG.	
REF. NO.	NO.	DATE	BY
CLIENT: TOWN OF FORT MYERS BEACH			
TITLE: SOUTH ESTERO ISLAND FILL TEMPLATE PROFILES			
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464			
PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@ceciff.com			
SERVING FLORIDA SINCE 1977			
28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135			
SHEET 11 OF 26			
FILE NO.: 24.504			



LEGEND

- 14.2 DESIGN CUT TOE AND ELEVATION (FT)
- NO WORK ZONE
- AVOIDANCE AREA
- BATHYMETRIC CONTOUR (OSI, 2021)
- EI-00-05 GEOTECHNICAL VIBRACORE (CPE, 2000)
- AA LIMITS OF ANCHORING
- PIPELINE CORRIDOR
- NBA-01 NEARSHORE BORROW AREA ALIGNMENT COORDINATE
- SURVEY BASELINE

- NOTES:**
1. BATHYMETRIC CONTOURS FROM SURVEY CONDUCTED BY OSI IN NOVEMBER 2021.
 2. GEOTECHNICAL VIBRACORES CONDUCTED BY CPE, AUGUST 2020.
 3. ELEVATIONS ARE NAVD88, US SURVEY FEET.
 4. SEE SHEET 26 FOR BORROW AREA AND VIBRACORE COORDINATES.
 5. SEE SHEET 16 FOR NEARSHORE PIPELINE CORRIDOR DETAILS.

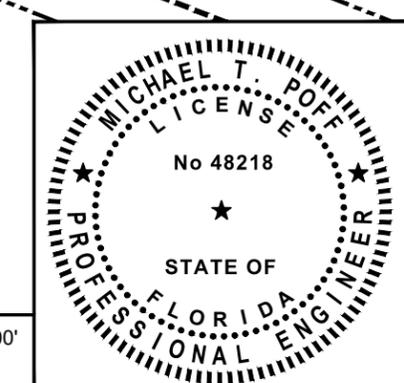
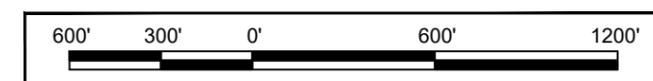
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DRAWN:	JSD/F.B.	CHECKED:	MTP/P.G.
SEC:	TWP.	RNG:	
ACAD NO.:	21504_CPS_13-16_Nearshore BA.DWG		
REF. NO.		NO.	DATE
			BY
			REVISION DESCRIPTION

CLIENT: TOWN OF FORT MYERS BEACH
TITLE: NEARSHORE BORROW AREA PLAN VIEW

N: 763,634.00
E: 659,671.44

N: 763,634.00
E: 665,671.44

GULF OF MEXICO

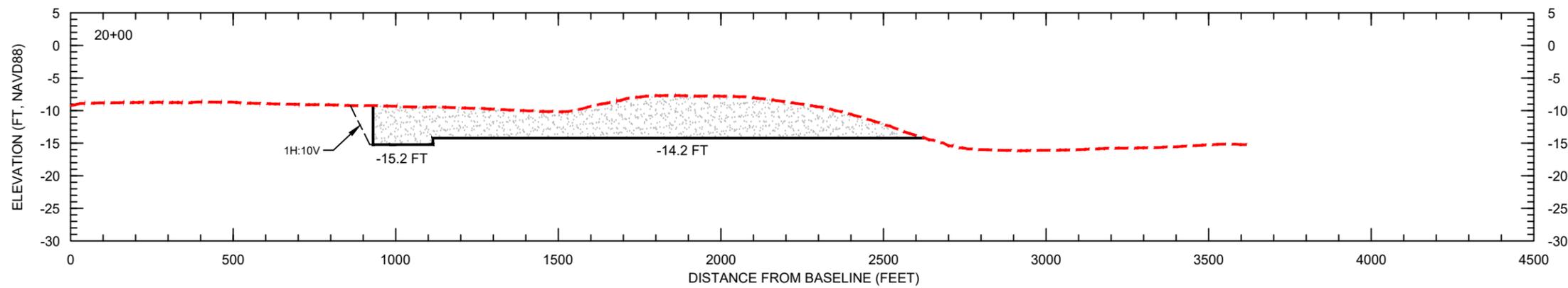
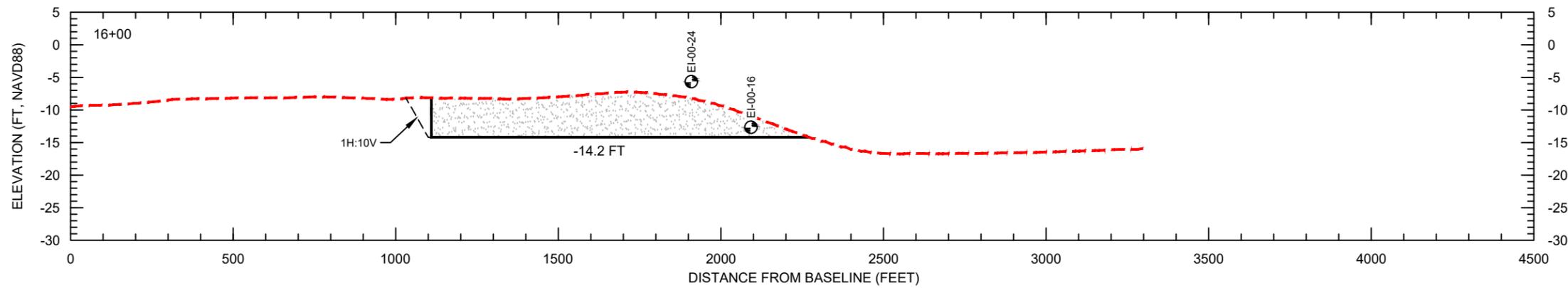
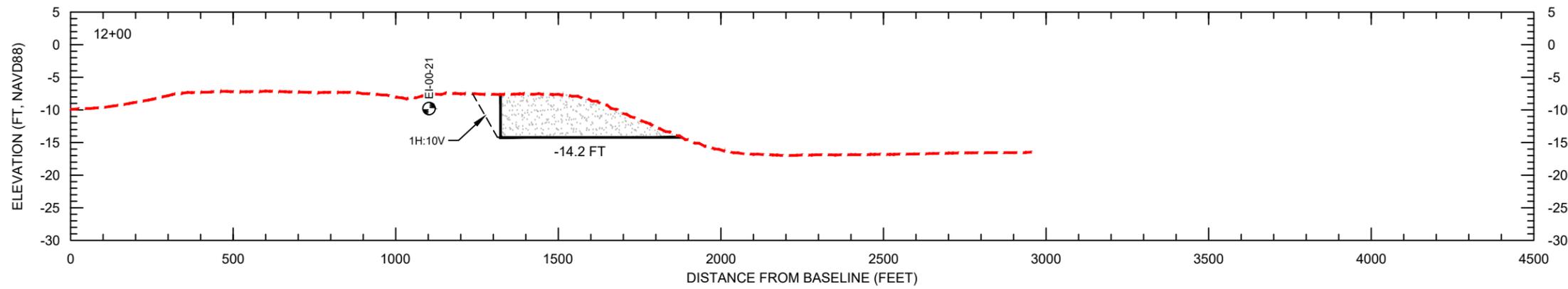
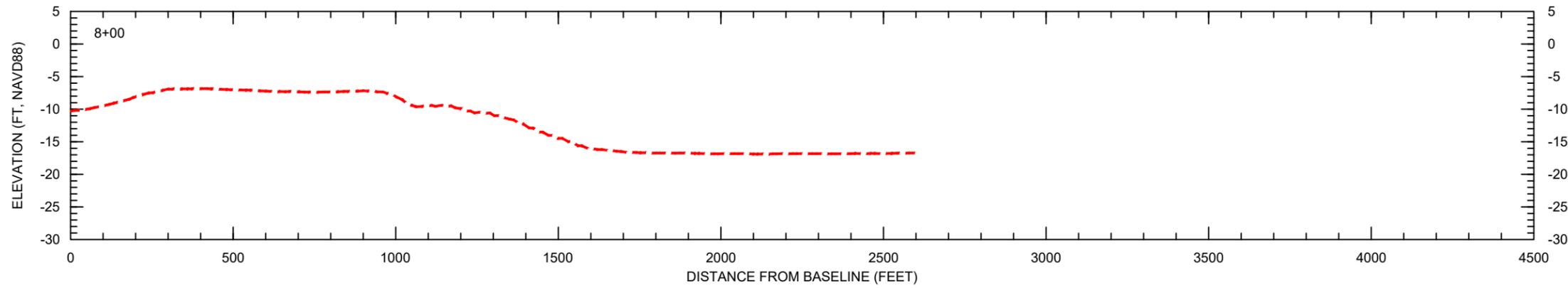


COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464

PHONE: (239) 643-2324
FAX: (239) 643-1143
www.coastalengineering.com
E-Mail: info@cecifl.com

COASTAL ENGINEERING CONSULTANTS, INC.
SERVING FLORIDA SINCE 1977
28421 BONITA CROSSINGS BLVD.
BONITA SPRINGS, FL 34135

SHEET 12 OF 26
FILE NO.: 24.504

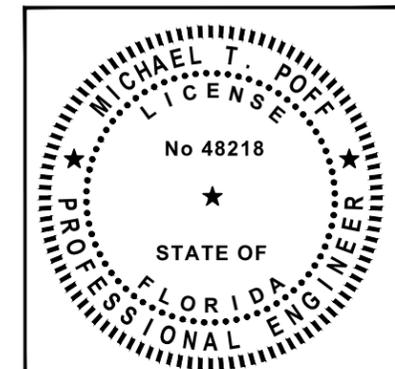


- NOTES:
- BATHYMETRIC SURVEY FROM OSI, NOVEMBER 2021.
 - GEOTECHNICAL VIBRACORES CONDUCTED BY CPE, AUGUST 2020.
 - ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

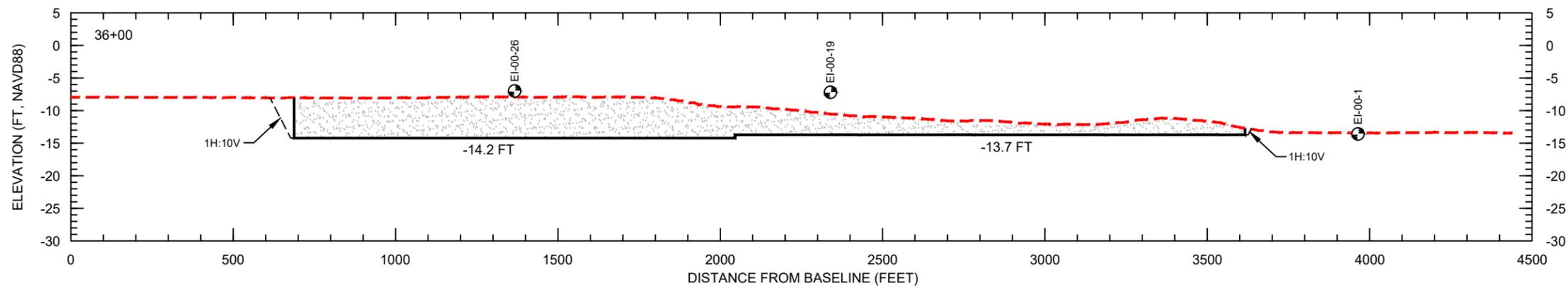
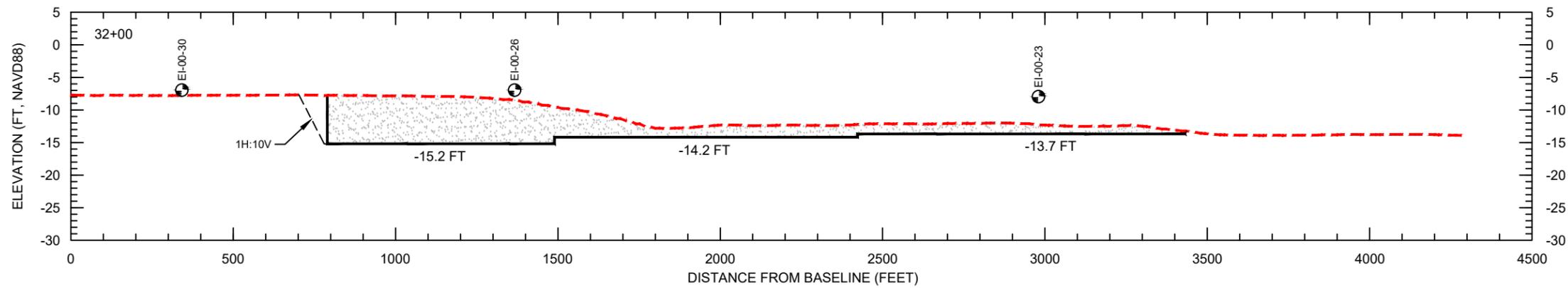
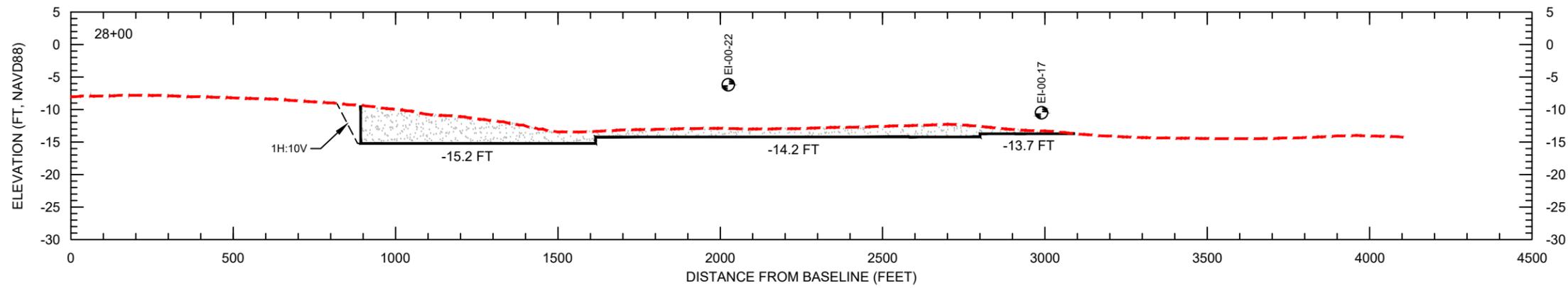
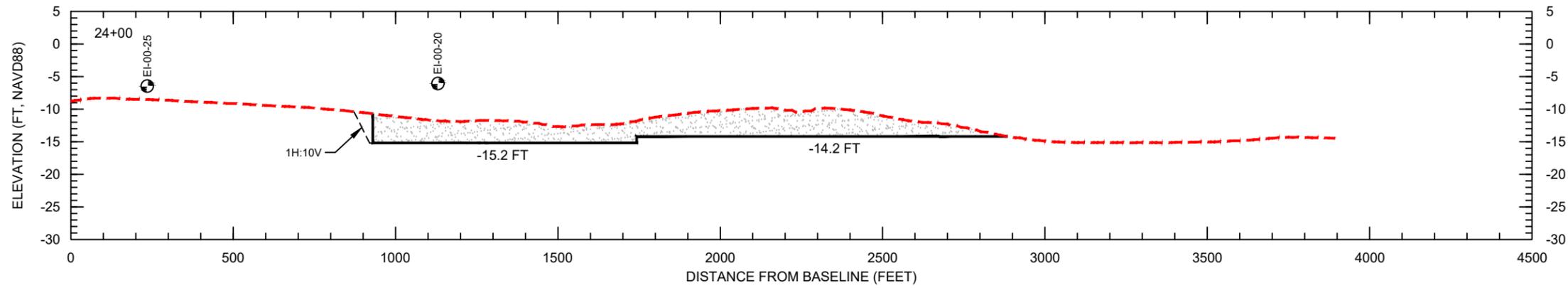
SCALE:
H: 1" = 400'
V: 1" = 20'

LEGEND:

- - - - - EXISTING GRADE
- DESIGN DREDGE CUT
- BORROW AREA
- DREDGE TOLERANCE
- VIBRACORE



<p>CLIENT: TOWN OF FORT MYERS BEACH</p> <p>TITLE: NEARSHORE BORROW AREA SECTIONS</p> <p>COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464</p> <p>PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@cecifl.com</p>	<p>DATE: 1/30/2024 SCALE: AS NOTED</p> <p>DRAWN: JSD F.B.</p> <p>CHECKED: MTP/P.G.</p> <p>SEC: TWP/RNG.</p> <p>ACAD NO.: 21504_CPS_13-16_Nearshore BA.DWG</p> <p>REF. NO.</p>																
<p>COASTAL ENGINEERING CONSULTANTS, INC.</p> <p>SERVING FLORIDA SINCE 1977</p> <p>28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	REVISION DESCRIPTION												
NO.	DATE	BY	REVISION DESCRIPTION														
<p>SHEET 13 OF 26 FILE NO.: 24.504</p>																	

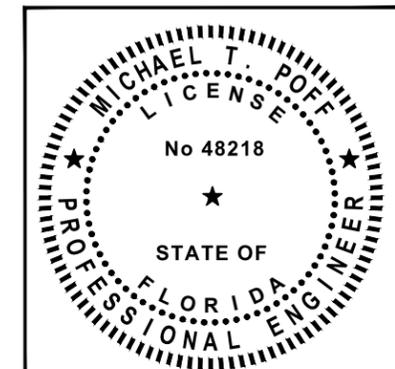


- NOTES:
- BATHYMETRIC SURVEY FROM OSI, NOVEMBER 2021.
 - GEOTECHNICAL VIBRACORES CONDUCTED BY CPE, AUGUST 2020.
 - ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

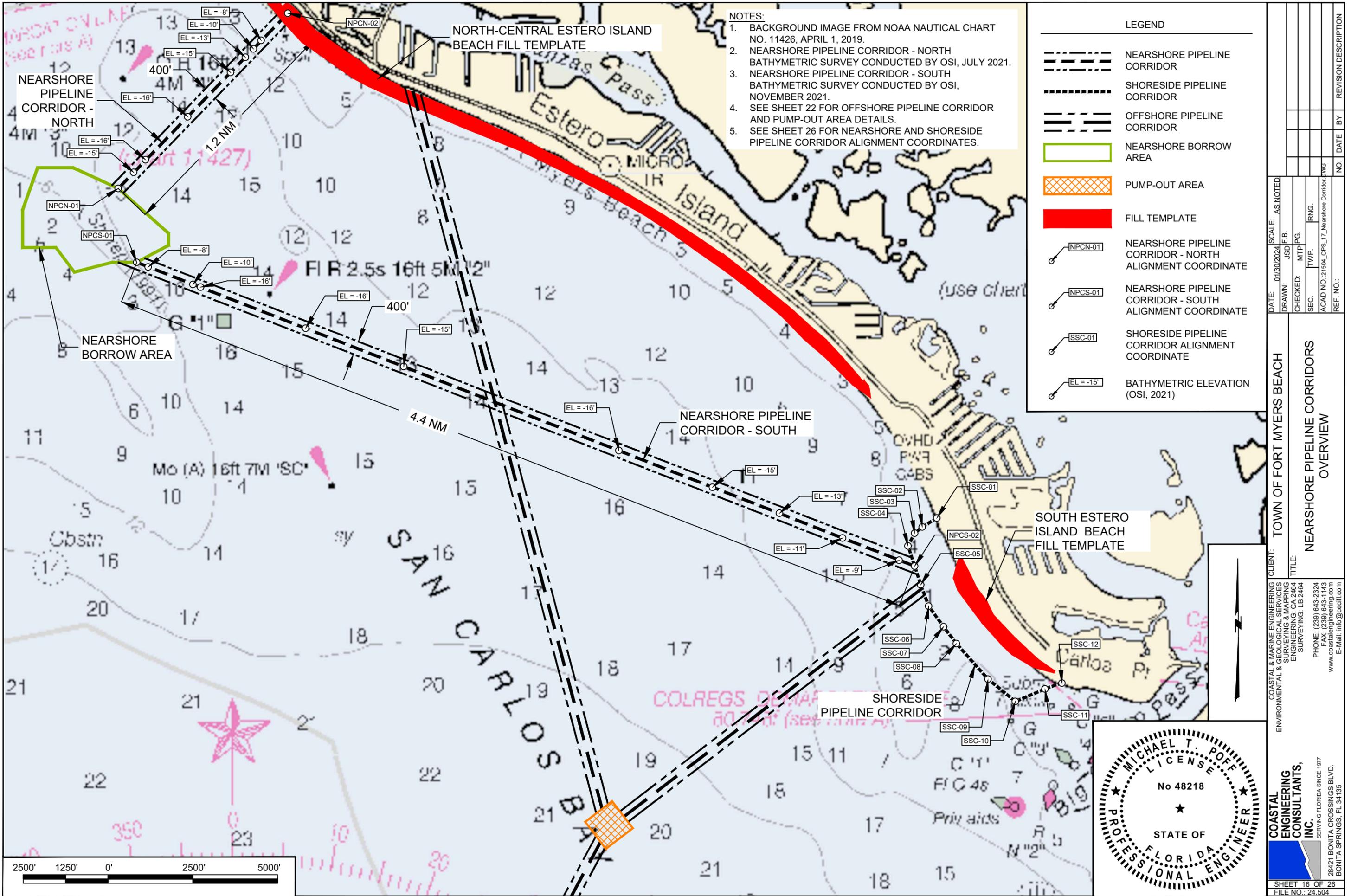
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H: 1" = 400'
V: 1" = 20'

LEGEND:

- - - - - EXISTING GRADE
- DESIGN DREDGE CUT
- BORROW AREA DREDGE TOLERANCE
- VIBRACORE



TOWN OF FORT MYERS BEACH		DATE: 1/30/2024	SCALE: AS NOTED
NEARSHORE BORROW AREA SECTIONS		DRAWN: JSD	F.B.
CLIENT: TOWN OF FORT MYERS BEACH		CHECKED: MTP	P.G.
TITLE: NEARSHORE BORROW AREA SECTIONS		SEC: TWP	RNG.
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464		ACAD NO.: 21504_CPS_13-16_Nearshore BA.DWG	REF. NO.
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464		PHONE: (239) 643-2324	FAX: (239) 643-1143
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464		WWW: www.coastalengineering.com	E-MAIL: info@ceciff.com
CLIENT: COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464		SHEET 14 OF 26 FILE NO.: 24.504	



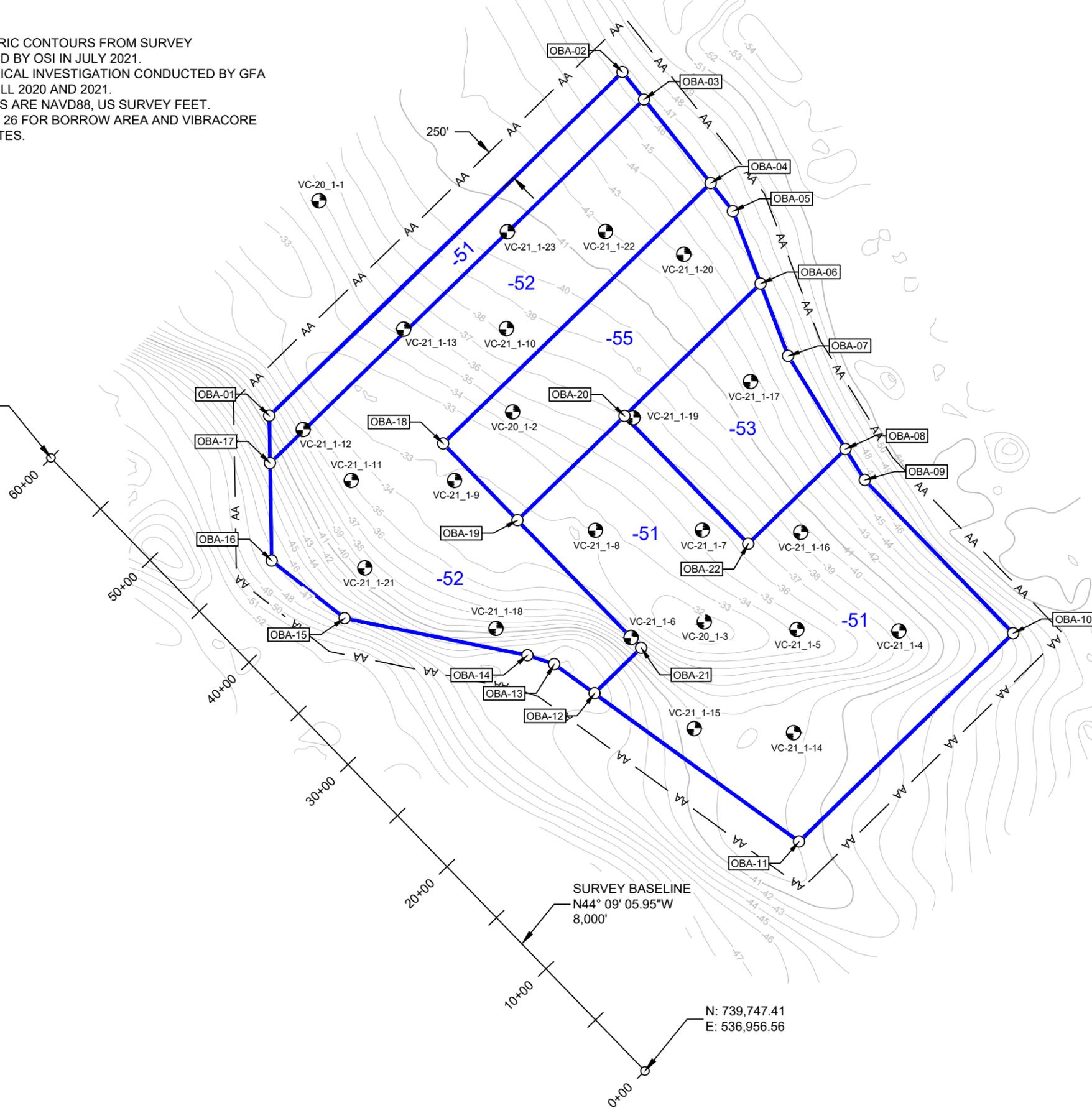
NOTES:

1. BATHYMETRIC CONTOURS FROM SURVEY CONDUCTED BY OSI IN JULY 2021.
2. GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA AND AMDRILL 2020 AND 2021.
3. ELEVATIONS ARE NAVD88, US SURVEY FEET.
4. SEE SHEET 26 FOR BORROW AREA AND VIBRACORE COORDINATES.

LEGEND

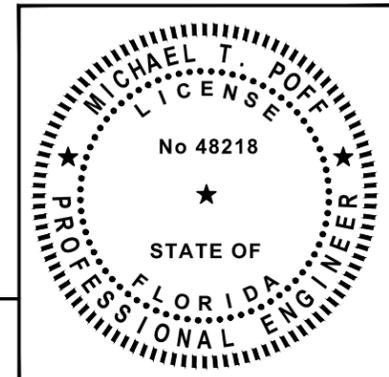
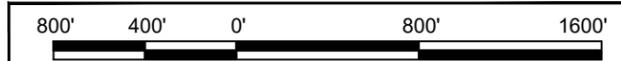
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- -29 — BATHYMETRIC CONTOUR (OSI, 2021)
- VC-20_1-1 GEOTECHNICAL VIBRACORE (AMDRILL, 2020)
- VC-21_1-4 GEOTECHNICAL VIBRACORE (AMDRILL, 2021)
- AA — LIMITS OF ANCHORING
- OBA-01 — OFFSHORE BORROW AREA ALIGNMENT COORDINATE
- 60+00 — SURVEY BASELINE

N: 744,052.40
E: 532,777.20

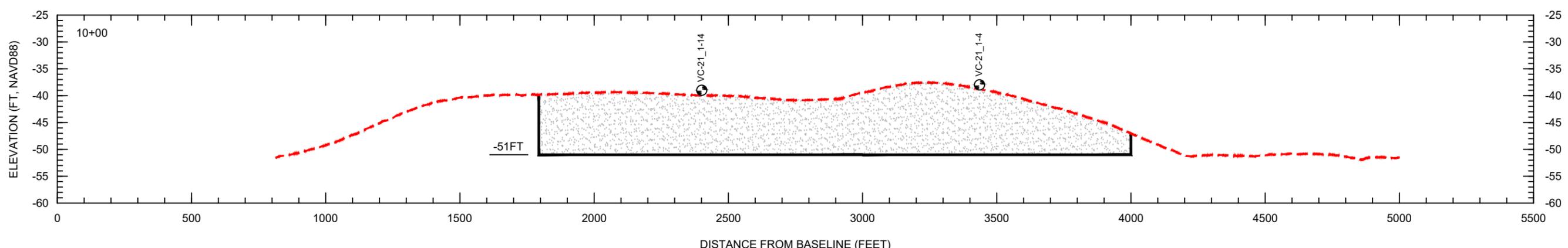
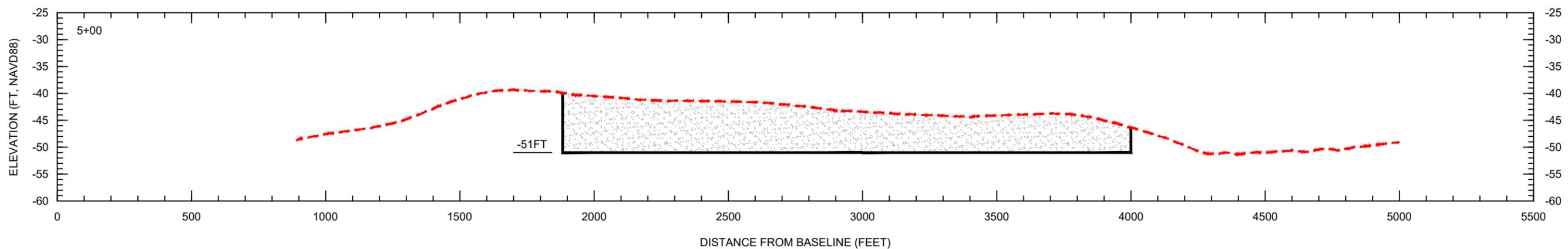
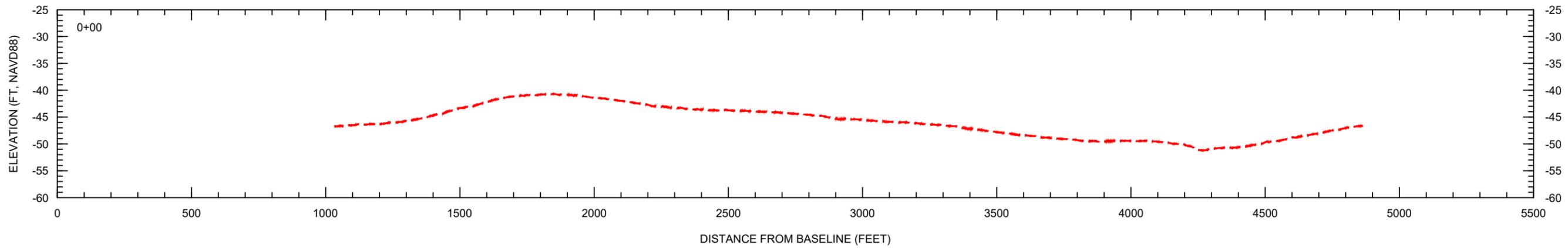


SURVEY BASELINE
N44° 09' 05.95\"/>

N: 739,747.41
E: 536,956.56



CLIENT: TOWN OF FORT MYERS BEACH		DATE: 1/30/2024	SCALE: AS NOTED
TITLE: OFFSHORE BORROW AREA PLAN VIEW		DRAWN: JSD/F.B.	
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464		CHECKED: MTP/P.G.	
PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@cecifl.com		SEC.:	
28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135		TWP.:	
SHEET 17 OF 26 FILE NO.: 24.504		RNG.:	
		ACAD NO.: 21504_CPS_18-22_Offshore BA.DWG	
		REF. NO.:	
		NO.:	
		DATE:	
		BY:	
		REVISION DESCRIPTION:	

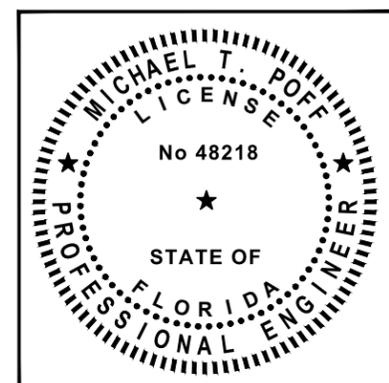


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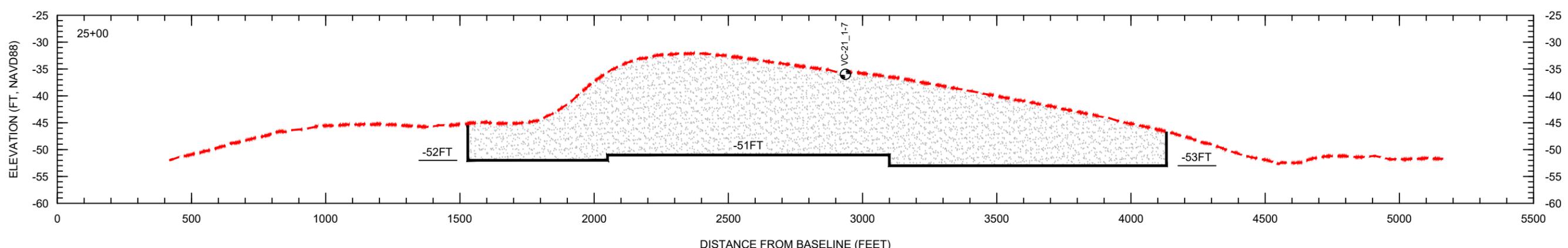
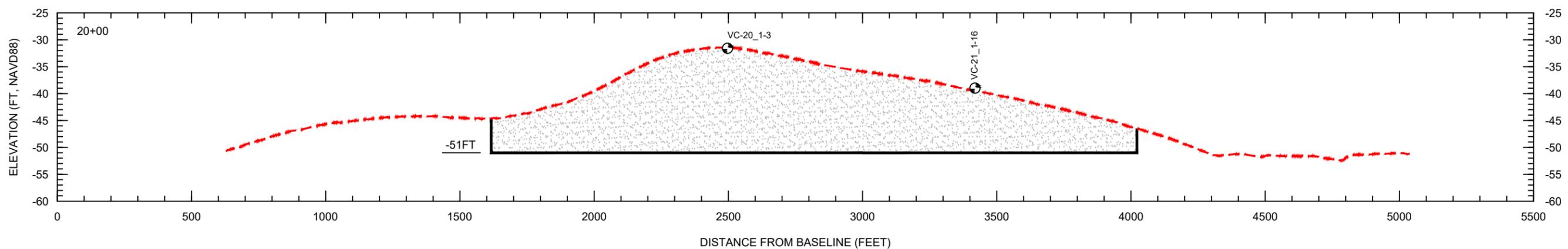
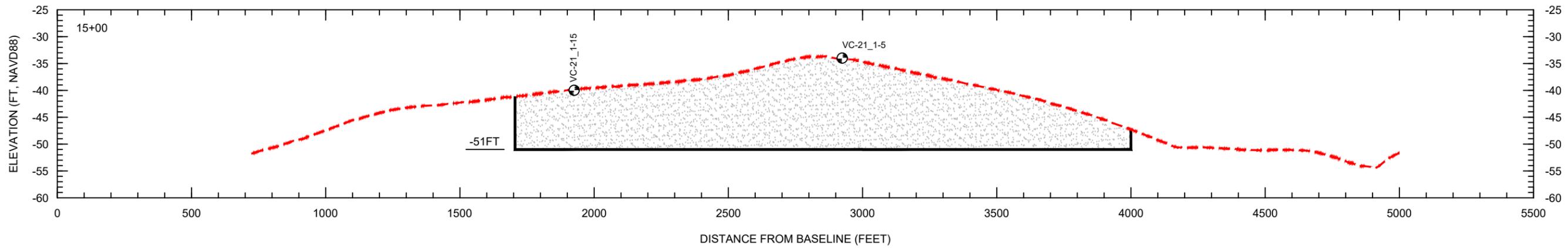
- EXISTING GRADE
- DESIGN DREDGE CUT
- VIBRACORE

SCALE:
H: 1" = 400'
V: 1" = 20'

- NOTES:
1. GEOPHYSICAL DATA FROM OSI, 2021.
 2. GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA AND AMDRILL, 2020 AND 2021.
 3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.



DATE: 1/30/2024 DRAWN: JSD CHECKED: MTP SEC: TWP ACAD NO.: 1504_CPS_18-22_Offshore BA.DWG REF. NO.	SCALE: AS NOTED F.B.	CLIENT: TOWN OF FORT MYERS BEACH TITLE: OFFSHORE BORROW AREA SECTIONS	COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@ceciff.com	SHEET 18 OF 26 FILE NO.: 24.504
REVISION DESCRIPTION NO. DATE BY				



- NOTES:
1. GEOPHYSICAL DATA FROM OSI, 2021.
 2. GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA AND AMDRILL, 2020 AND 2021.
 3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

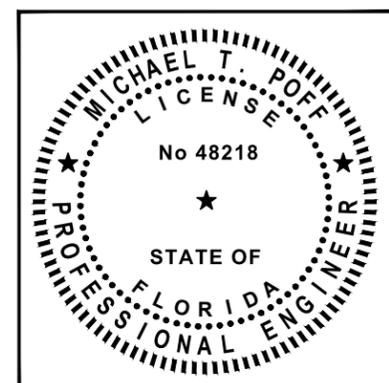
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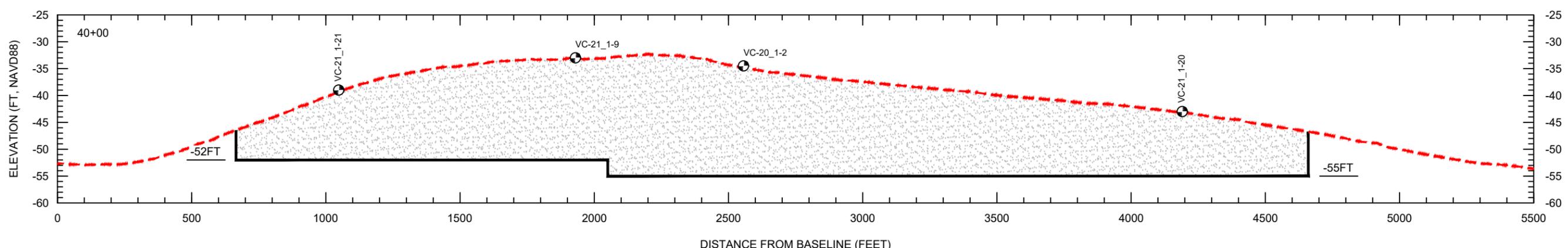
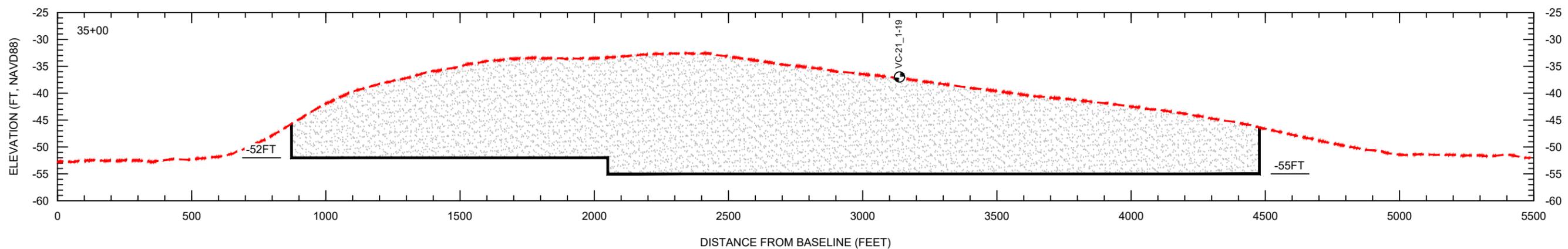
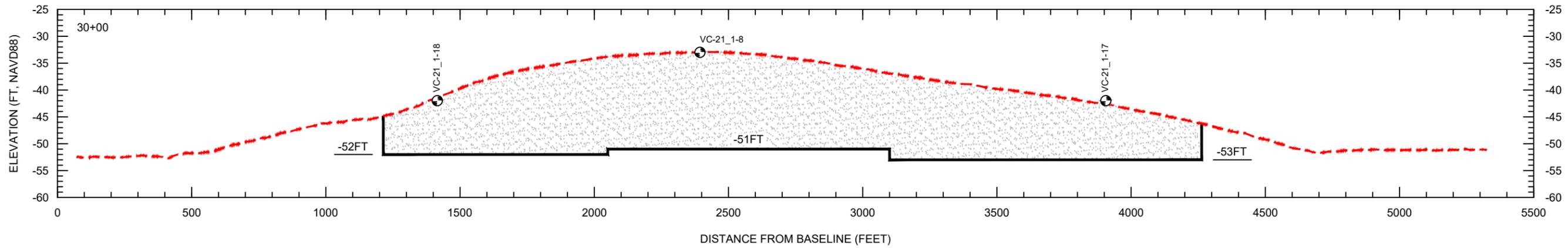
--- EXISTING GRADE

█ DESIGN DREDGE CUT

● VC-21_1-16 VIBRACORE



DATE: 1/30/2024		SCALE: AS NOTED	
DRAWN: JSD		F.B.	
CHECKED: MTP		P.G.	
SEC.		TWP.	
ACAD NO.: 21504_CPS_18-22		Offshore BA.DWG	
REF. NO.	NO.	DATE	BY
CLIENT: TOWN OF FORT MYERS BEACH			
TITLE: OFFSHORE BORROW AREA SECTIONS			
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@ceciff.com			
COASTAL ENGINEERING CONSULTANTS, INC. SERVING FLORIDA SINCE 1977 28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135			
SHEET 19 OF 26			
FILE NO.: 24.504			

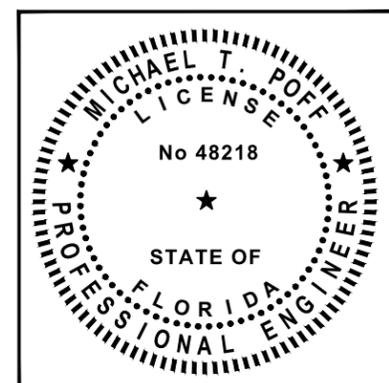


- NOTES:
1. GEOPHYSICAL DATA FROM OSI, 2021.
 2. GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA AND AMDRILL, 2020 AND 2021.
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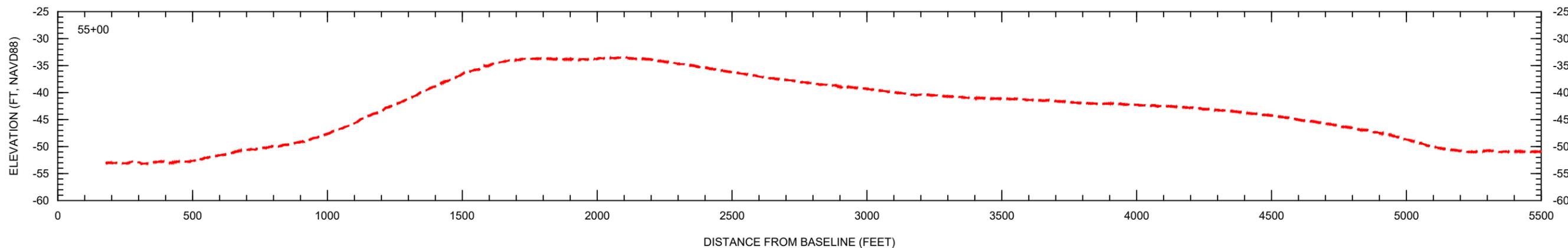
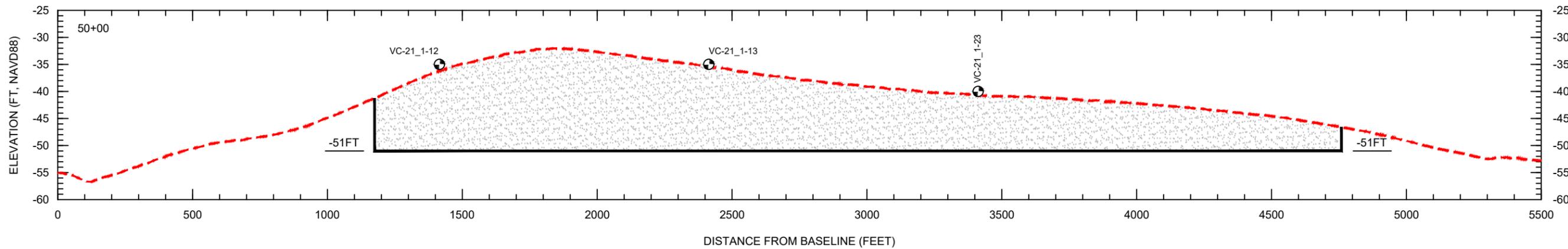
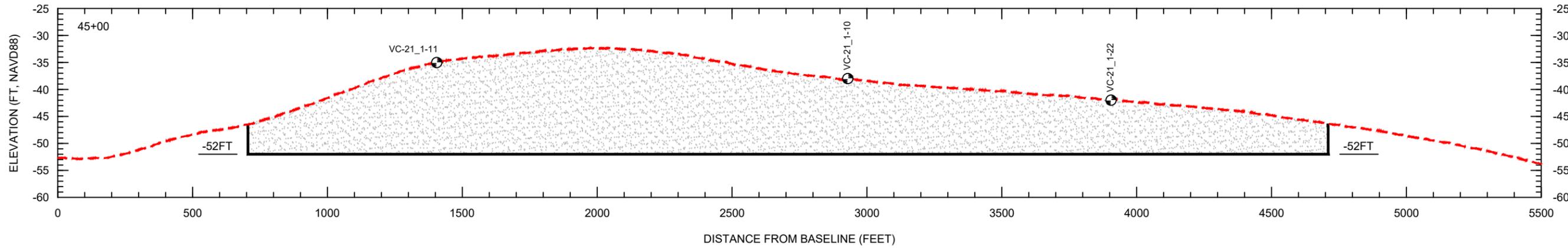
SCALE:
H: 1" = 400'
V: 1" = 20'

LEGEND:

- EXISTING GRADE
- DESIGN DREDGE CUT
- VIBRACORE



COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@cecifl.com	CLIENT: TOWN OF FORT MYERS BEACH TITLE: OFFSHORE BORROW AREA SECTIONS	DATE: 1/30/2024 DRAWN: JSD CHECKED: MTP SEC: TWP ACAD NO.: 21504_CPS_18-22_Offshore BA.DWG REF. NO.	SCALE: AS NOTED JSD MTP RING.	NO. DATE BY REVISION DESCRIPTION
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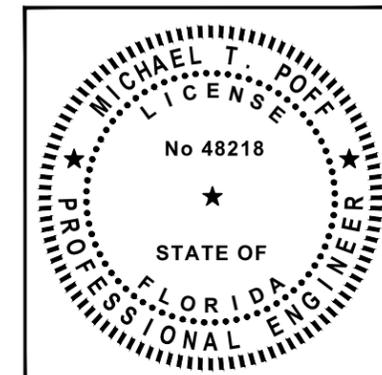


- NOTES:
1. GEOPHYSICAL DATA FROM OSI, 2021.
 2. GEOTECHNICAL INVESTIGATION CONDUCTED BY GFA AND AMDRILL, 2020 AND 2021.
 3. ELEVATIONS ARE SHOWN IN NAVD88 U.S. SURVEY FEET.

SCALE:
H: 1" = 400'
V: 1" = 20'

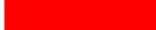
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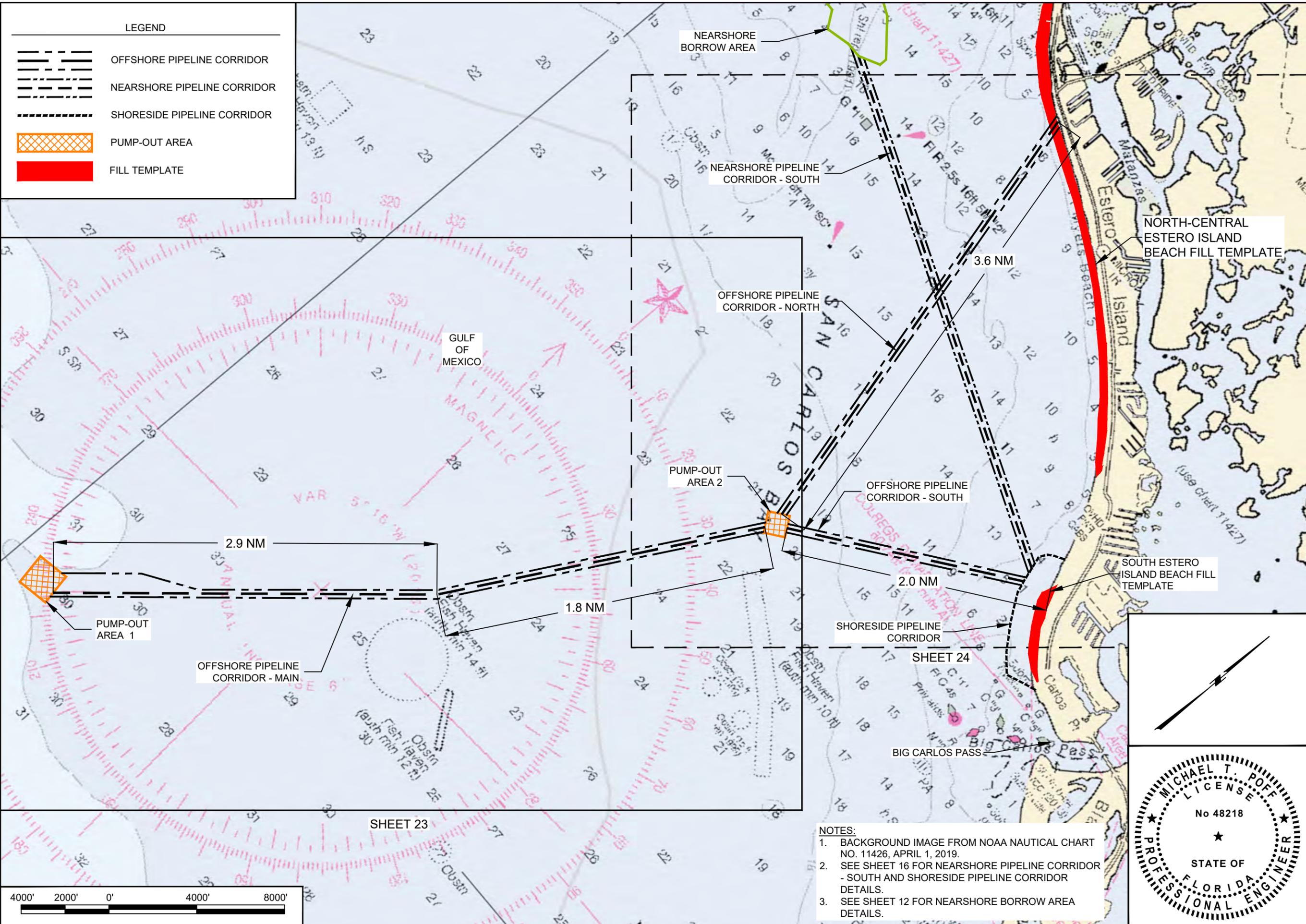
- EXISTING GRADE
- DESIGN DREDGE CUT
- VC-21_1-23 VIBRACORE



CLIENT: TOWN OF FORT MYERS BEACH TITLE: OFFSHORE BORROW AREA SECTIONS	
COASTAL & MARINE ENGINEERING ENVIRONMENTAL & GEOLOGICAL SERVICES SURVEYING & MAPPING ENGINEERING: CA 2464 SURVEYING: LB 2464 PHONE: (239) 643-2324 FAX: (239) 643-1143 www.coastalengineering.com E-Mail: info@ceciff.com	COASTAL ENGINEERING CONSULTANTS, INC. SERVING FLORIDA SINCE 1977 28421 BONITA CROSSINGS BLVD. BONITA SPRINGS, FL 34135
DATE: 1/30/2024 DRAWN: JSD/F.B. CHECKED: MTP/P.G. SEC: TWP. ACAD NO.: 21504_CPS_18-22_Offshore BA.DWG REF. NO.	SCALE: AS NOTED JSD/F.B. MTP/P.G. RING. NO. DATE BY REVISION DESCRIPTION
SHEET 21 OF 26 FILE NO.: 24.504	

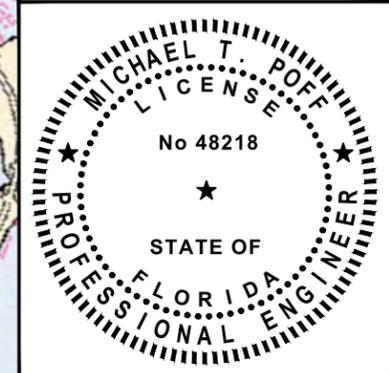
LEGEND

-  OFFSHORE PIPELINE CORRIDOR
-  NEARSHORE PIPELINE CORRIDOR
-  SHORESIDE PIPELINE CORRIDOR
-  PUMP-OUT AREA
-  FILL TEMPLATE



NOTES:

- BACKGROUND IMAGE FROM NOAA NAUTICAL CHART NO. 11426, APRIL 1, 2019.
- SEE SHEET 16 FOR NEARSHORE PIPELINE CORRIDOR - SOUTH AND SHORESIDE PIPELINE CORRIDOR DETAILS.
- SEE SHEET 12 FOR NEARSHORE BORROW AREA DETAILS.



DATE: 1/30/2024		SCALE: AS NOTED
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SEC:	ACAD NO.: 21904_CPS_23-25_Offshore Corridor.DWG	
REF. NO.:		
	NO.	DATE
		BY
		REVISION DESCRIPTION

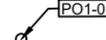
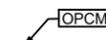
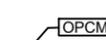
CLIENT: TOWN OF FORT MYERS BEACH
 TITLE: OFFSHORE PIPELINE CORRIDORS OVERVIEW

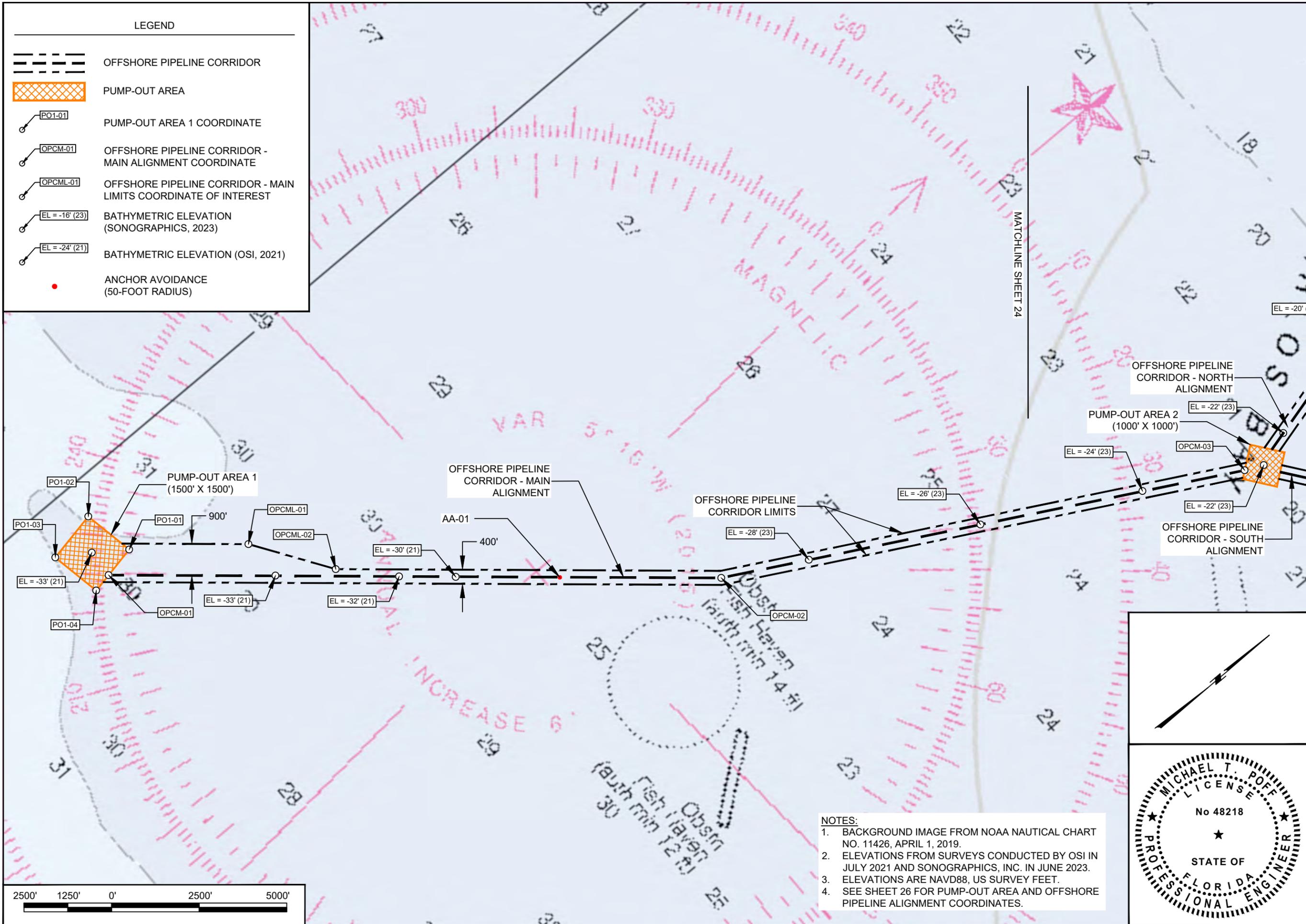
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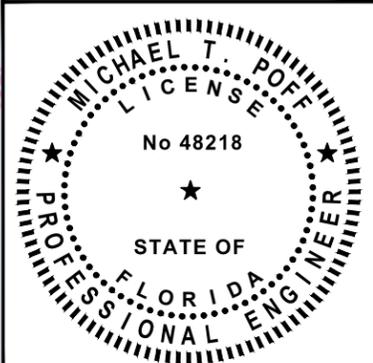
SHEET 22 OF 26
 FILE NO.: 24.504

LEGEND

-  OFFSHORE PIPELINE CORRIDOR
-  PUMP-OUT AREA
-  PO1-01 PUMP-OUT AREA 1 COORDINATE
-  OPCM-01 OFFSHORE PIPELINE CORRIDOR - MAIN ALIGNMENT COORDINATE
-  OPCML-01 OFFSHORE PIPELINE CORRIDOR - MAIN LIMITS COORDINATE OF INTEREST
-  EL = -16' (23) BATHYMETRIC ELEVATION (SONOGRAPHICS, 2023)
-  EL = -24' (21) BATHYMETRIC ELEVATION (OSI, 2021)
-  ANCHOR AVOIDANCE (50-FOOT RADIUS)



- NOTES:**
1. BACKGROUND IMAGE FROM NOAA NAUTICAL CHART NO. 11426, APRIL 1, 2019.
 2. ELEVATIONS FROM SURVEYS CONDUCTED BY OSI IN JULY 2021 AND SONOGRAPHICS, INC. IN JUNE 2023.
 3. ELEVATIONS ARE NAVD88, US SURVEY FEET.
 4. SEE SHEET 26 FOR PUMP-OUT AREA AND OFFSHORE PIPELINE ALIGNMENT COORDINATES.



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SEC.:		ACAD NO.: 1904_CPS_23-25_Offshore Corridor.DWG	
NO.	DATE	BY	REVISION DESCRIPTION

CLIENT: TOWN OF FORT MYERS BEACH
 TITLE: OFFSHORE PIPELINE CORRIDOR - MAIN PLAN VIEW

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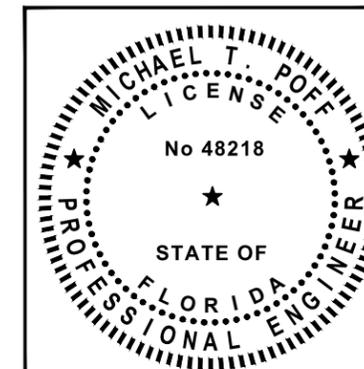
SHEET 23 OF 26
 FILE NO.: 24.504

BEACH FILL SURVEY BASELINE LINE COORDINATES									
LINE #	LENGTH (FT)	DIRECTION	START POINT (X, Y)	END POINT (X, Y)	LINE #	LENGTH (FT)	DIRECTION	START POINT (X, Y)	END POINT (X, Y)
L1	800.00	S16° 36' 17.99"E	666642.45, 774690.63	666871.07, 773923.99	L18	1057.00	S53° 46' 57.17"E	680509.67, 765237.50	681362.44, 764612.97
L2	997.00	S33° 35' 51.73"E	666871.07, 773923.99	667422.77, 773093.55	L19	1140.00	S50° 57' 37.21"E	681362.44, 764612.97	682247.89, 763894.93
L3	1089.00	S40° 26' 40.02"E	667422.77, 773093.55	668129.22, 772264.78	L20	1576.00	S49° 54' 15.79"E	682247.89, 763894.93	683453.48, 762879.89
L4	707.00	S44° 04' 49.02"E	668129.22, 772264.78	668621.05, 771756.90	L21	1572.00	S47° 02' 18.42"E	683453.48, 762879.89	684603.89, 761808.56
L5	607.00	S47° 31' 42.82"E	668621.05, 771756.90	669068.78, 771347.04	L22	350.00	S38° 43' 48.44"E	684603.89, 761808.56	684822.87, 761535.52
L6	1996.00	S54° 10' 12.47"E	669068.78, 771347.04	670687.06, 770178.62	L23	828.00	S43° 34' 01.01"E	684822.87, 761535.52	685393.52, 760935.58
L7	1368.00	S67° 10' 39.64"E	670687.06, 770178.62	671947.96, 769648.00	L24	447.00	S45° 11' 49.48"E	685393.52, 760935.58	685710.69, 760620.59
LS	1075.00	S67° 38' 47.46"E	671947.96, 769648.00	672942.18, 769239.16	L25	777.00	S43° 26' 34.18"E	685710.69, 760620.59	686244.98, 760056.44
L9	800.00	S67° 38' 48.00"E	672942.18, 769239.16	673682.06, 768934.91	L26	1273.00	S39° 10' 39.13"E	686244.98, 760056.44	687049.16, 759069.62
L10	779.00	S66° 13' 55.08"E	673682.06, 768934.91	674394.99, 768620.94	L27	1102.00	S29° 22' 44.24"E	687049.16, 759069.62	687589.78, 758109.35
L11	677.00	S66° 13' 53.99"E	674394.99, 768620.94	675014.57, 768348.09	L28	908.00	S27° 33' 24.54"E	687589.78, 758109.35	688009.85, 757304.36
L12	1400.00	S66° 07' 47.00"E	675014.57, 768348.09	676294.82, 767781.55	L29	658.00	S13° 32' 32.85"E	688009.85, 757304.36	688163.93, 756664.65
L13	1057.00	S61° 00' 32.65"E	676294.82, 767781.55	677219.38, 767269.25	L30	677.00	S08° 05' 44.00"E	688163.93, 756664.65	688259.27, 755994.40
L14	878.00	S60° 14' 32.77"E	677219.38, 767269.25	677981.60, 766833.48	L31	1041.00	S13° 58' 48.56"E	688259.27, 755994.40	688510.76, 754984.23
L15	1018.00	S58° 50' 33.42"E	677981.60, 766833.48	678852.75, 766306.77	L32	1022.00	S49° 47' 34.18"E	688510.76, 754984.23	689291.28, 754324.48
L16	1063.00	S57° 22' 40.00"E	678852.75, 766306.77	679748.05, 765733.71	L33	1861.00	S40° 19' 02.15"E	689291.28, 754324.48	690495.38, 752905.51
L17	909.00	S56° 54' 53.57"E	679748.05, 765733.71	680509.67, 765237.50	L34	1367.00	S77° 07' 23.80"E	690495.38, 752905.51	691828.00, 752600.87

ESTERO ISLAND REFERENCE MONUMENT TRANSECTS ALIGNMENT COORDINATES							
REFERENCE MONUMENT	NORTHING	EASTING	AZ	REFERENCE MONUMENT	NORTHING	EASTING	AZ
C-174A	774,787.69	666,547.88	205	R-189	766,467.06	678,956.91	240
R-175	774,428.13	667,127.38	202	R-190	765,885.99	679,781.22	240
R-176	773,671.13	667,335.63	205	R-191	765,395.55	680,530.91	240
R-177	772,960.31	667,878.69	230	R-192	764,699.35	681,338.71	240
R-178	772,145.13	668,634.38	223	R-193	764,083.95	681,957.91	230
R-179	771,546.13	669,180.00	220	R-194	763,314.31	683,011.24	230
R-180	770,720.50	669,931.13	240	R-195	762,622.48	683,662.44	230
R-181	770,198.63	670,772.88	245	R-196	762,037.10	684,376.00	225
R-182	769,985.63	671,773.88	246	R-197	761,206.97	685,072.25	225
R-183	769,642.63	672,566.88	245	R-203.5	755,443.56	688,271.43	200
R-184	769,229.63	673,555.38	245	R-204	754,979.51	688,538.88	185
R-185	768,650.13	674,405.88	250	R-204.5	754,635.06	688,839.02	200
R-186	768,269.13	675,299.88	245	R-205	754,510.91	689,408.68	215
R-187	767,772.86	676,626.59	245	R-206	753,582.41	690,173.98	220
R-188	766,966.33	678,054.07	240	R-206.5	752,972.21	690,335.33	240

NEARSHORE BORROW AREA COORDINATES					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
NBA-01	767,347	660,813	NBA-13	765,000	660,371
NBA-02	767,347	661,521	NBA-14	766,109	660,371
NBA-03	767,347	661,860	NBA-15	767,058	661,521
NBA-04	767,273	662,021	NBA-16	767,076	661,404
NBA-05	766,735	663,190	NBA-17	765,888	661,017
NBA-06	765,417	664,671	NBA-18	765,629	661,361
NBA-07	765,063	664,671	NBA-19	766,834	661,811
NBA-08	764,564	663,734	NBA-20	766,834	661,521
NBA-09	764,564	663,016	NBA-21	766,834	662,021
NBA-10	764,356	662,208	NBA-22	765,430	663,440
NBA-11	764,276	661,894	NBA-23	765,017	662,136
NBA-12	765,000	661,352			

NEARSHORE BORROW AREA VIBRA CORE COORDINATES					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
EI-00-1	767,598	661,994	EI-00-24	765,543	663,982
EI-00-16	765,727	664,220	EI-00-25	763,870	663,346
EI-00-17	766,623	662,798	EI-00-26	765,001	662,287
EI-00-18	766,890	660,983	EI-00-27	765,917	661,151
EI-00-19	765,974	661,988	EI-00-28	767,086	661,591
EI-00-20	764,765	663,170	EI-00-29	764,958	661,242
EI-00-21	764,736	664,387	EI-00-30	763,977	662,395
EI-00-22	765,659	663,009	EI-00-30C	763,999	662,416
EI-00-23	766,615	662,349			



TOWN OF FORT MYERS BEACH

COORDINATE AND ALIGNMENT TABLES

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SHEET 25 OF 26
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OFFSHORE BORROW AREA COORDINATES					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
OBA-01	744,348	534,313	OBA-12	742,399	536,602
OBA-02	746,761	536,798	OBA-13	742,604	536,319
OBA-03	746,569	536,950	OBA-14	742,666	536,130
OBA-04	745,981	537,420	OBA-15	742,927	534,844
OBA-05	745,785	537,576	OBA-16	743,330	534,330
OBA-06	745,276	537,770	OBA-17	744,016	534,319
OBA-07	744,768	537,964	OBA-18	744,153	535,537
OBA-08	744,115	538,368	OBA-19	743,615	536,059
OBA-09	743,897	538,503	OBA-20	744,346	536,813
OBA-10	742,821	539,548	OBA-21	742,718	536,930
OBA-11	741,358	538,041	OBA-22	743,449	537,683

OFFSHORE BORROW AREA VIBRA CORE COORDINATES					
POINT	NORTHING	EASTING	VC-21_1-12	744,251	534,552
VC-20_1-1	745,857	534,664	VC-21_1-13	744,956	535,260
VC-20_1-2	744,374	536,027	VC-21_1-14	742,123	538,003
VC-20_1-3	742,901	537,375	VC-21_1-15	742,152	537,304
VC-21_1-4	742,837	538,744	VC-21_1-16	743,530	538,053
VC-21_1-5	742,847	538,027	VC-21_1-17	744,588	537,700
VC-21_1-6	742,790	536,860	VC-21_1-18	742,855	535,909
VC-21_1-7	743,545	537,361	VC-21_1-19	744,334	536,873
VC-21_1-8	743,544	536,609	VC-21_1-20	745,482	537,231
VC-21_1-9	743,893	535,617	VC-21_1-21	743,280	534,986
VC-21_1-10	744,960	535,982	VC-21_1-22	745,641	536,680
VC-21_1-11	743,893	534,890	VC-21_1-23	745,641	535,989

PUMP-OUT AREA 1		
POINT	NORTHING	EASTING
PO1-01	721,679	658,669
PO1-02	721,389	657,198
PO1-03	719,917	657,487
PO1-04	720,207	658,959

PUMP-OUT AREA 2		
POINT	NORTHING	EASTING
PO2-01	748,113	676,953
PO2-02	748,720	677,748
PO2-03	747,924	678,355
PO2-04	747,349	677,535

OFFSHORE PIPELINE CORRIDOR - MAIN COORDINATES		
POINT	NORTHING	EASTING
OPCM-01	720,762	658,850
OPCM-02	734,106	670,151
OPCM-03	747,520	677,405

OFFSHORE PIPELINE CORRIDOR - MAIN LIMITS COORDINATES		
POINT	NORTHING	EASTING
OPCML-01	724,387	660,741
OPCML-02	725,836	662,885

SHORESIDE PIPELINE CORRIDOR COORDINATES		
POINT	NORTHING	EASTING
SSC-01	757,046	687,317
SSC-02	756,784	686,888
SSC-03	756,599	686,662
SSC-04	756,225	686,469
SSC-05	755,084	686,842
SSC-06	754,452	687,076
SSC-07	753,848	687,517
SSC-08	753,353	687,894
SSC-09	752,309	688,828
SSC-10	751,651	689,632
SSC-11	752,020	690,505
SSC-12	752,191	691,006

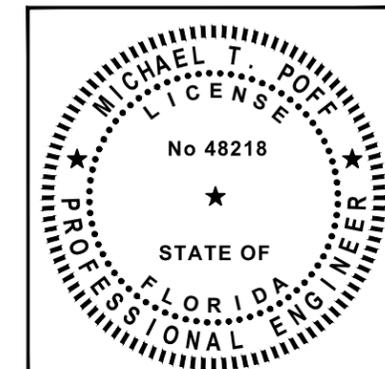
OFFSHORE PIPELINE CORRIDOR - NORTH COORDINATES		
POINT	NORTHING	EASTING
OPCN-01	748,493	677,450
OPCN-02	769,596	671,877

OFFSHORE PIPELINE CORRIDOR - SOUTH COORDINATES		
POINT	NORTHING	EASTING
OPCS-01	748,266	678,094
OPCS-02	754,975	686,882

NEARSHORE PIPELINE CORRIDOR - NORTH COORDINATES		
POINT	NORTHING	EASTING
NPCN-01	766,735	663,190
NPCN-02	771,884	668,186

NEARSHORE PIPELINE CORRIDOR - SOUTH COORDINATES		
POINT	NORTHING	EASTING
NPCS-01	764,564	663,734
NPCS-02	755,631	686,663

ANCHOR AVOIDANCE		
POINT	NORTHING	EASTING
AA-01	730,585	667,176



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SHEET 26 OF 26			
FILE NO.: 24.504			