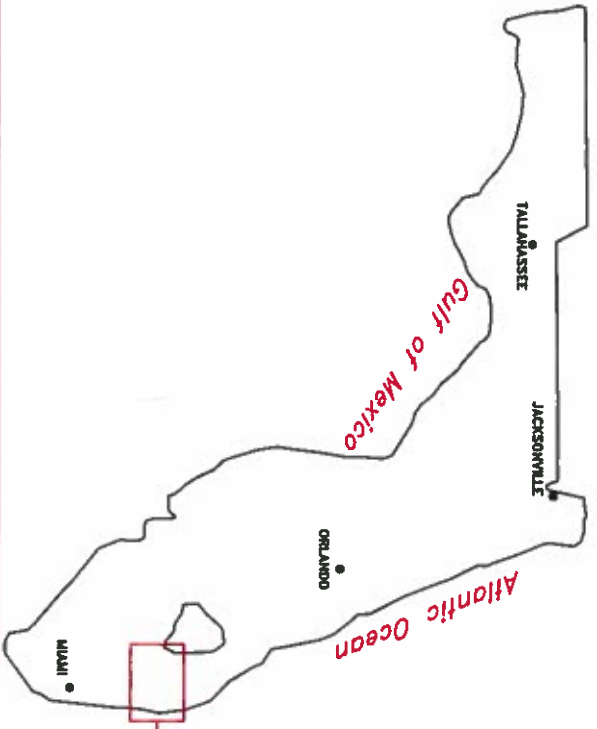
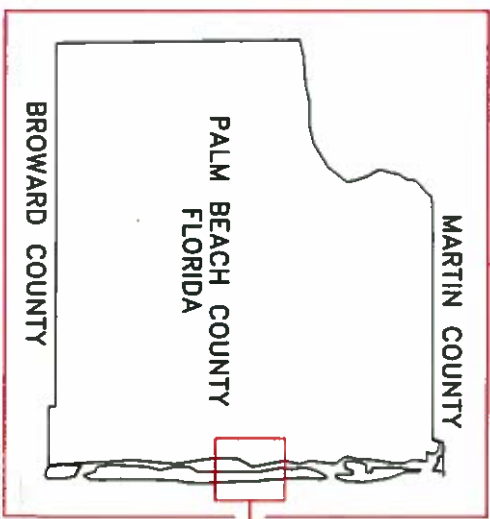


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INDEX OF DRAWINGS

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1	LOCATION MAP
2-3	EXISTING BATHYMETRY
4	PROPOSED
5-8	CROSS SECTIONS
9	ISLAND BREAKWATER DETAIL
10	ARTIFICIAL REEF/BREAKWATER DETAIL
11	TURBIDITY CONTROL



PROJECT AREA

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 PE # 54793



Part 1 of 11

Project
TARPON COVE RESTORATION
 LOCATION MAP

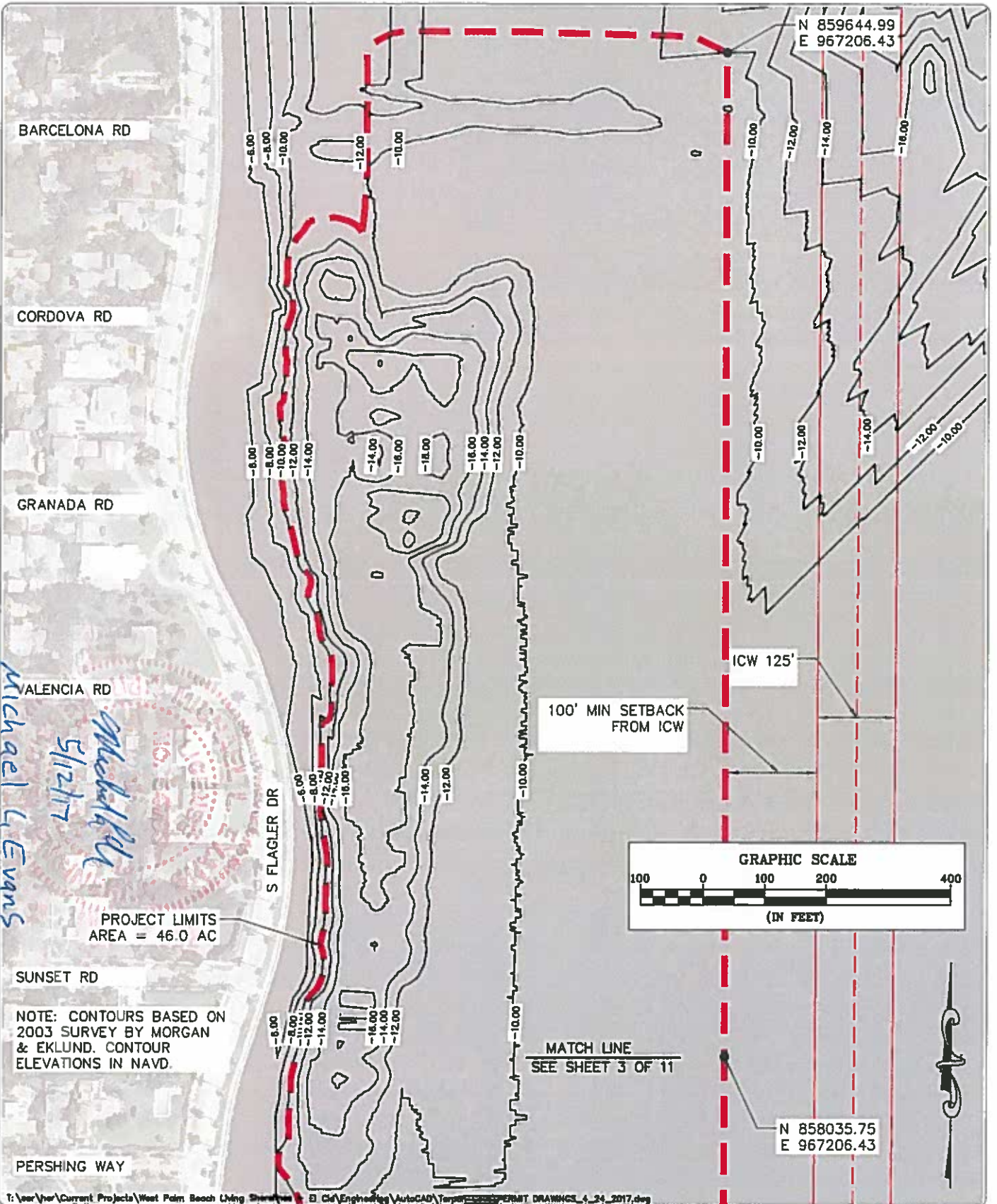
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 Date: 4/25/2017



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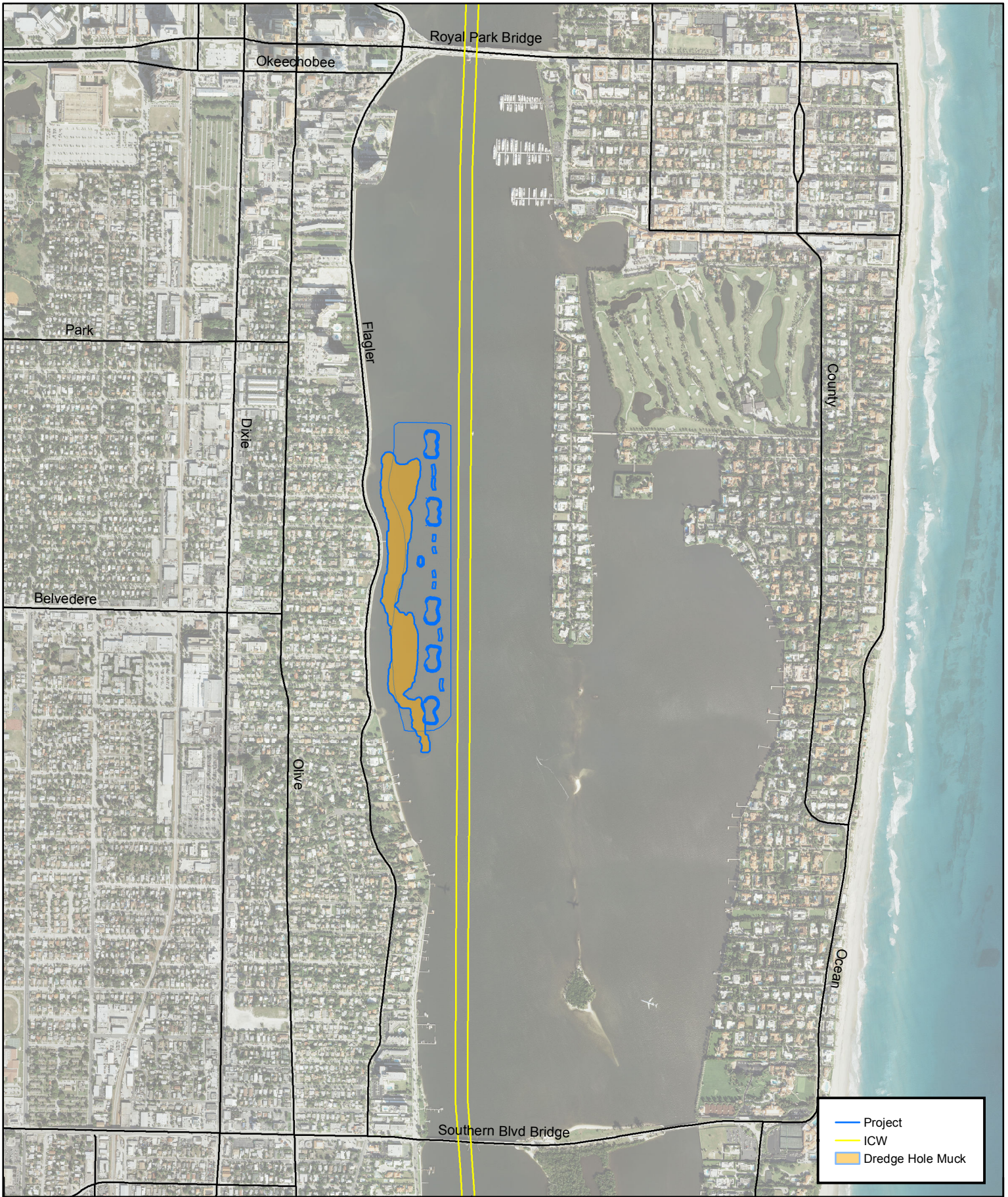
Project
TARPON COVE RESTORATION
EXISTING BATHYMETRY

DATE

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Date: 4/25/2017			



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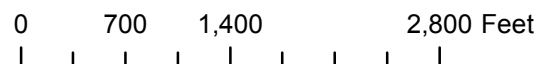
— Project
— ICW
 Dredge Hole Muck



Palm Beach County Department of
 Environmental Resources Management
 2300 North Jog Road, 4th Floor
 West Palm Beach, Florida 33411-2741
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Tarpon Cove Restoration

Date: 5/4/2017



NOTE: CONTOURS BASED ON 2003 SURVEY BY MORGAN & EKLUND. CONTOUR ELEVATIONS IN NAVD.

SEE SHEET 2 OF 11
MATCH LINE

N 858035.75
E 967206.43

PERSHING WAY

BELMONTE RD

S FLAGLER DR

100' MIN SETBACK FROM ICW

ICW 125'

PROJECT LIMITS
AREA = 46.0 AC

ALMERIA RD

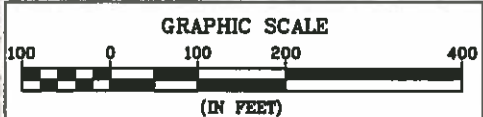
DYER RD

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MONCEAUX RD

N 856697.12
E 967206.43

AVILA RD



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Sheet 3 of 11

Project: **TARPON COVE RESTORATION**
EXISTING BATHYMETRY

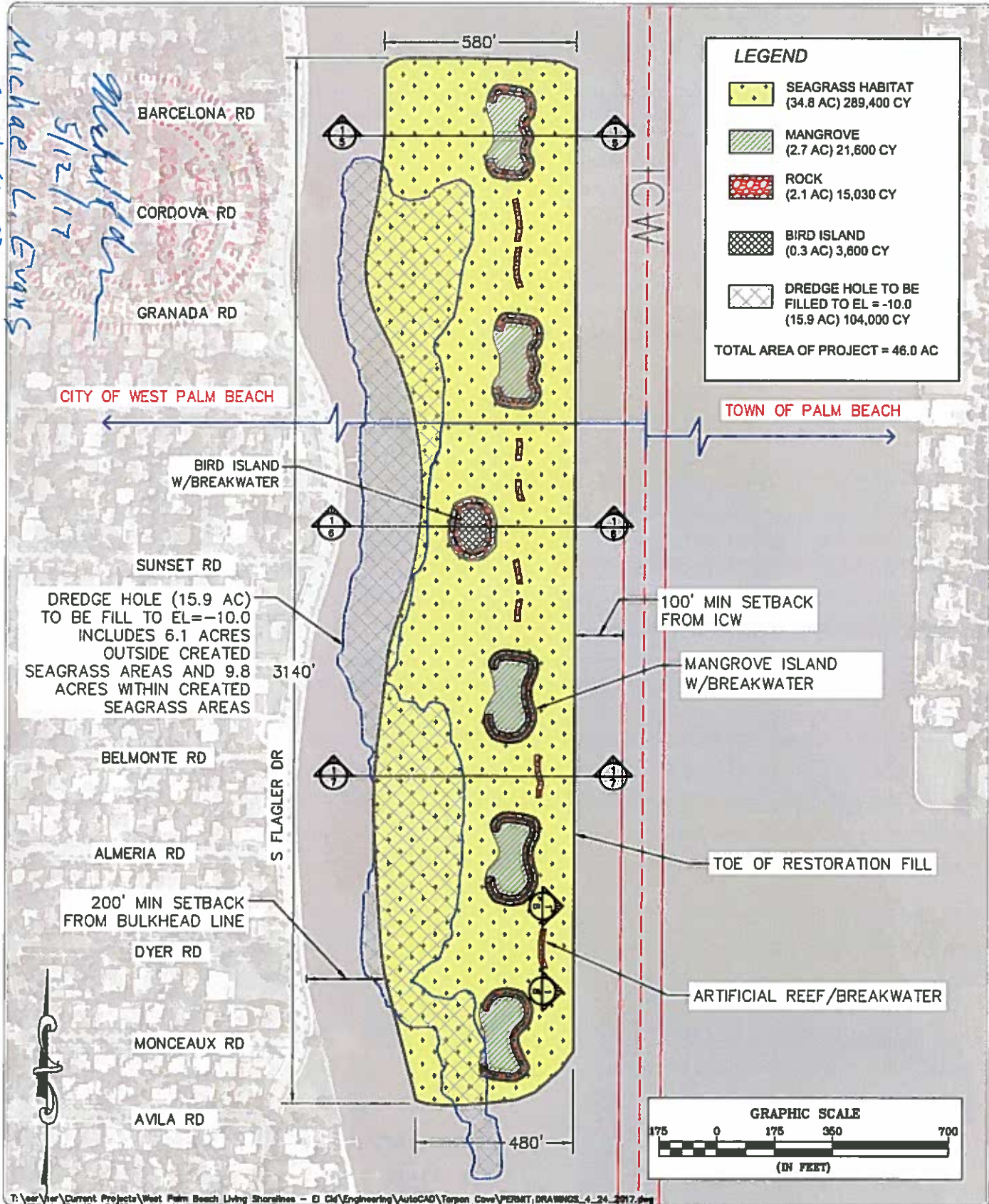
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Project
TARPON COVE RESTORATION
PROPOSED

No.	Revised	By	Date

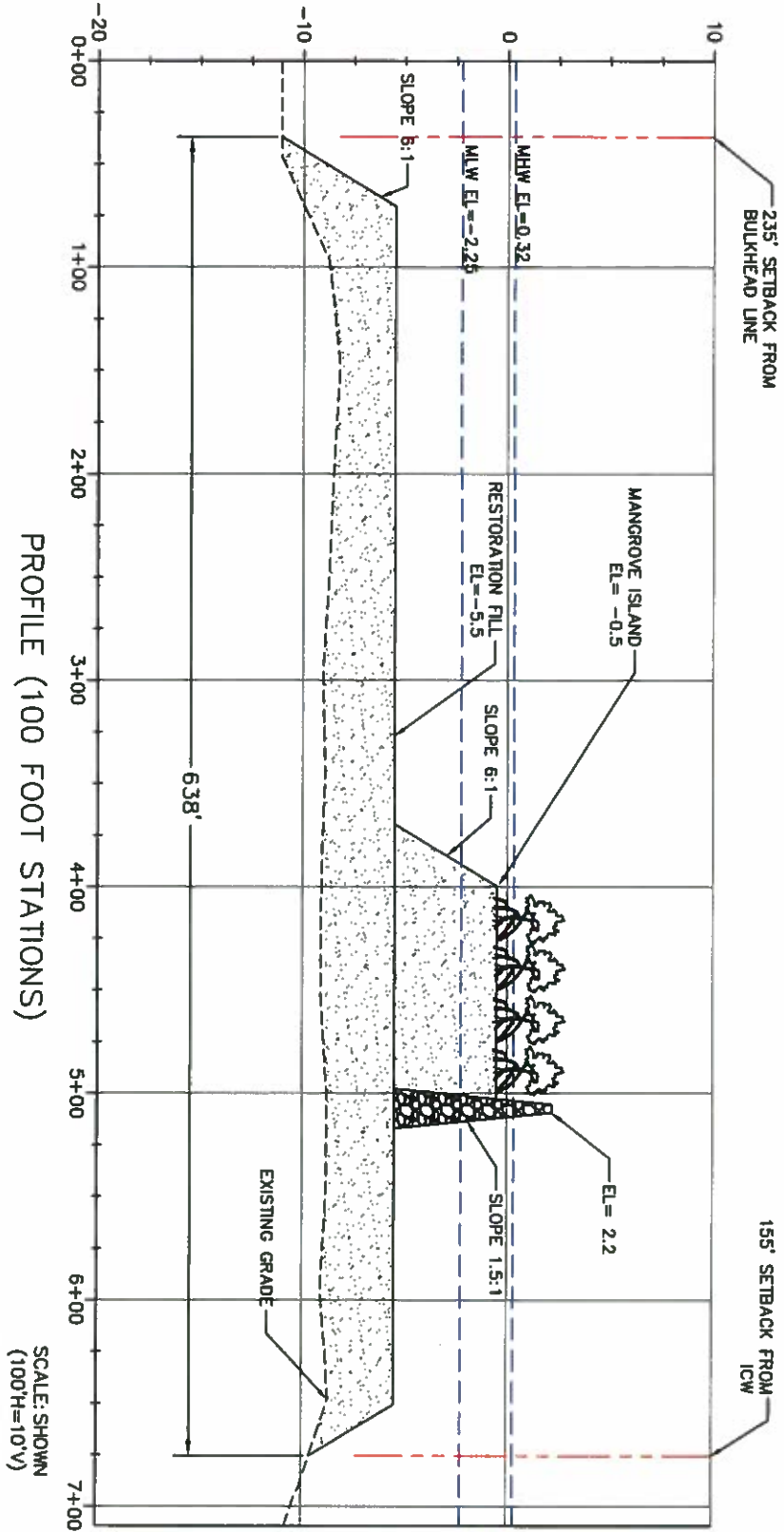
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ELEVATION (FEET-NAVD)



1
5
SECTION THROUGH MANGROVE ISLAND

PROFILE (100 FOOT STATIONS)

SCALE: SHOWN
(100'H=10'V)

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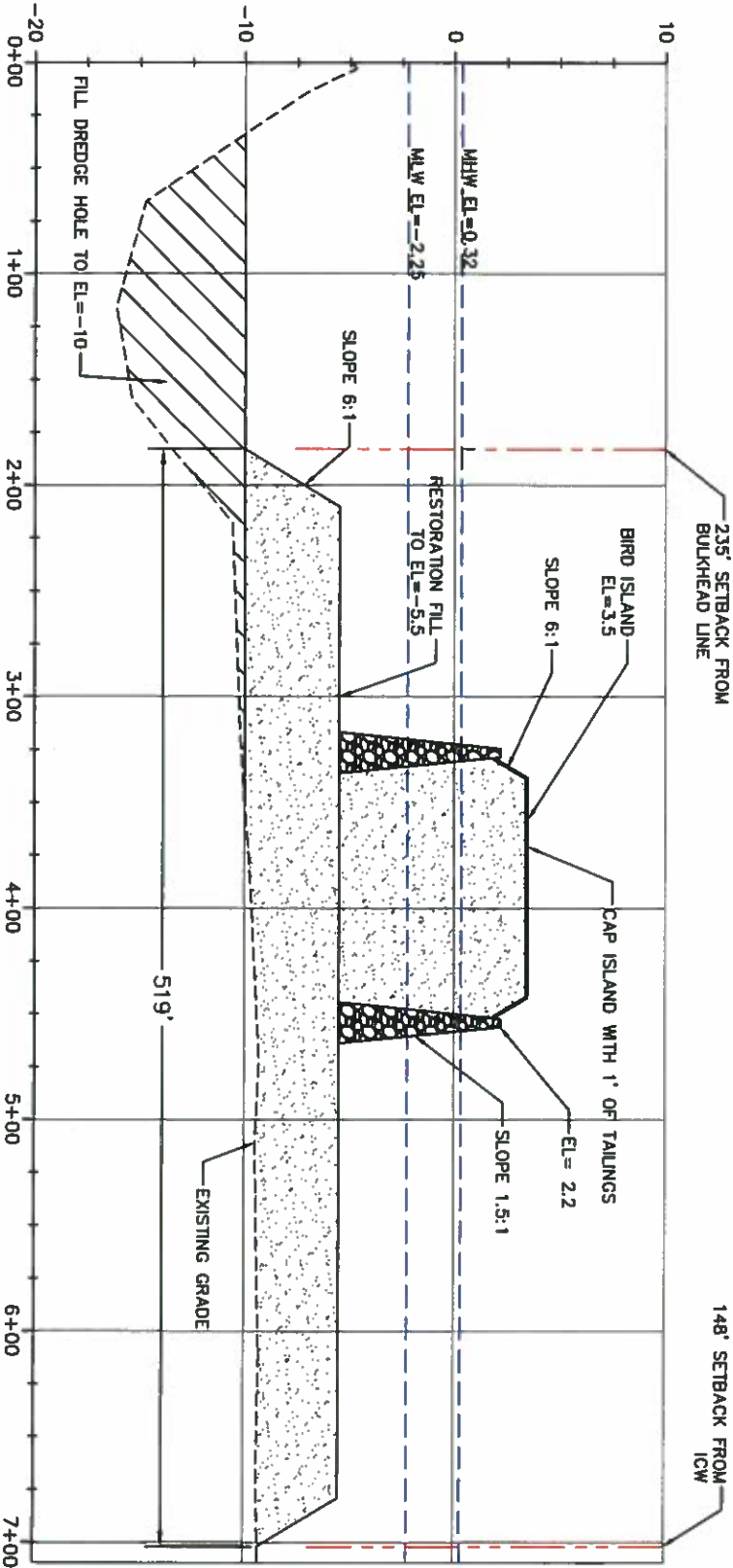
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Project: **TARPON COVE RESTORATION**
 CROSS SECTION

Sheet: **5** of **11**

ELEVATION (FEET-NAVD)



1
6 SECTION THROUGH BIRD ISLAND

PROFILE (100 FOOT STATIONS)

SCALE: SHOWN
(100'H=10"V)

519'

EXISTING GRADE

235' SETBACK FROM BULKHEAD LINE

148' SETBACK FROM ICW

BIRD ISLAND
EL=3.5

SLOPE 6:1

CAP ISLAND WITH 1' OF TAILINGS
EL= 2.2

SLOPE 1.5:1

RESTORATION FILL
TO EL=-5.5

SLOPE 6:1

M.L.W. EL=-2.25

M.H.W. EL=0.32

FILL DREDGE HOLE TO EL=-10

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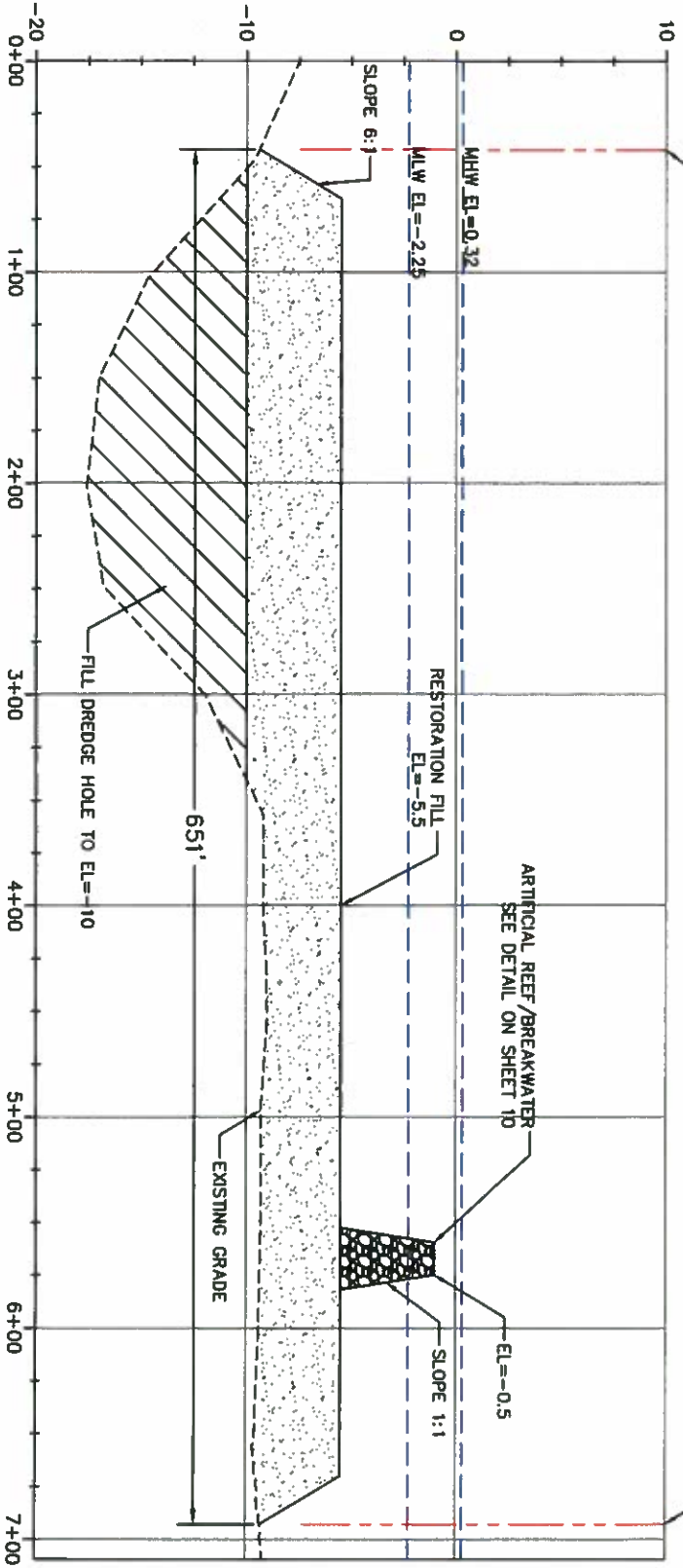
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Project: **TARPON COVE RESTORATION**

CROSS SECTION

Sheet: **6** of **11**

ELEVATION (FEET-NAVD)



SECTION THROUGH ARTIFICIAL REEF/
BREAKWATER

PROFILE (100 FOOT STATIONS)

SCALE SHOWN
(100'H=10"V)

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Project: TARPON COVE RESTORATION
CROSS SECTION

SCALE

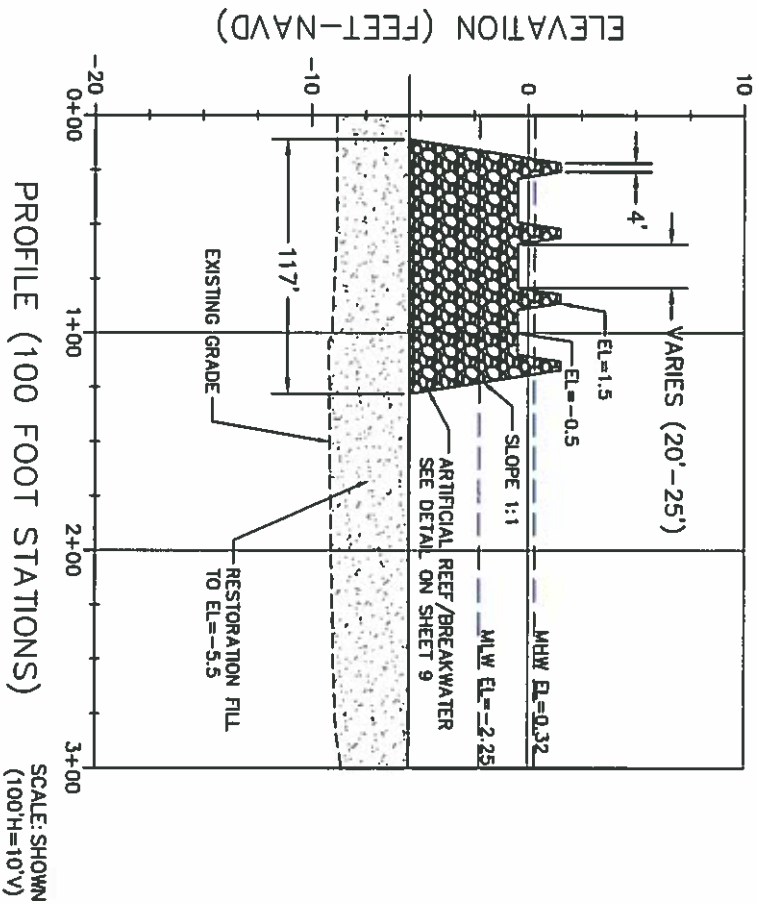
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1
8 SECTION THROUGH ARTIFICIAL REEF/BREAKWATER



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PE # 54793




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Project: TARPON COVE RESTORATION
CROSS SECTION

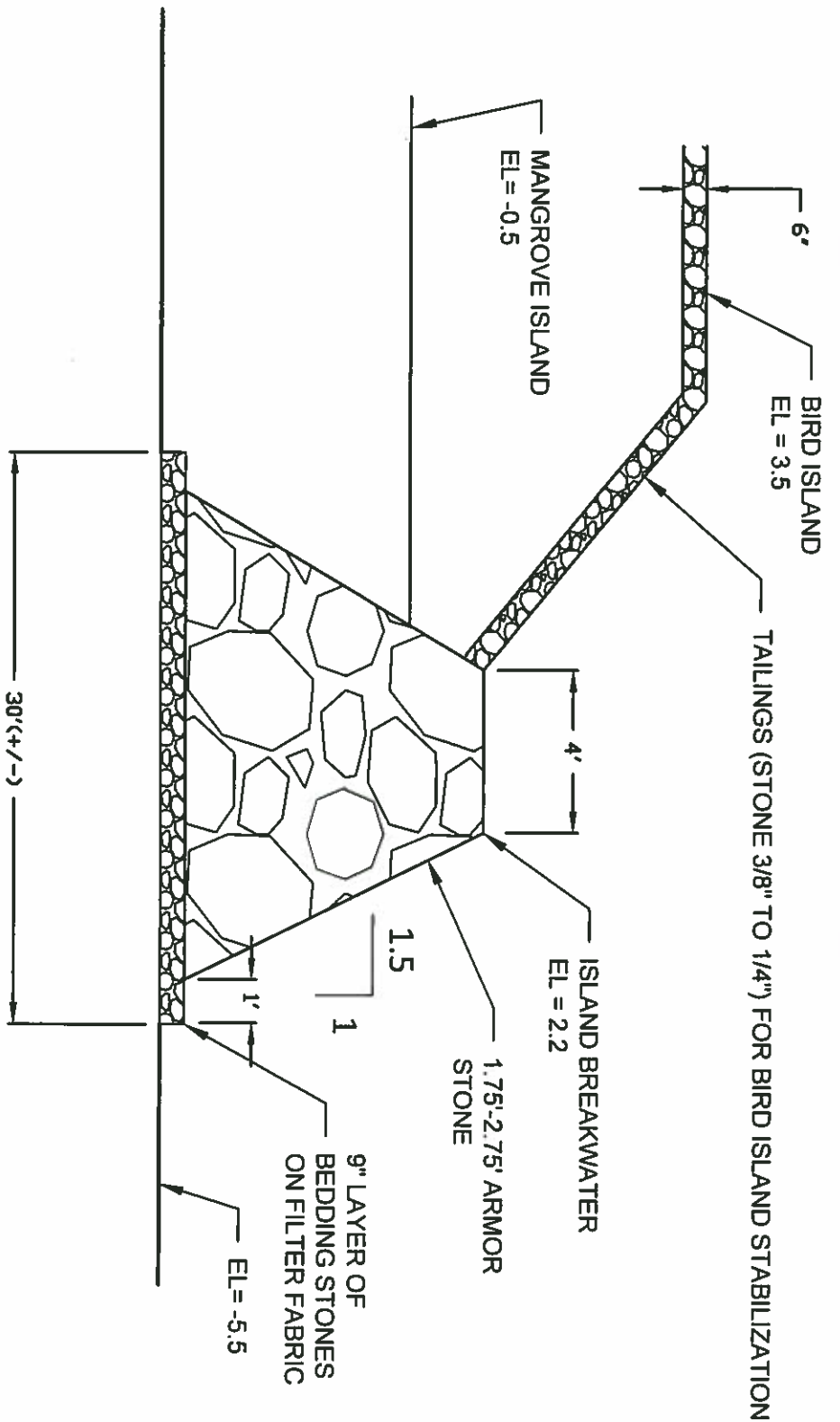
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ISLAND BREAKWATER TYPICAL SECTION
DETAIL

NOT TO SCALE

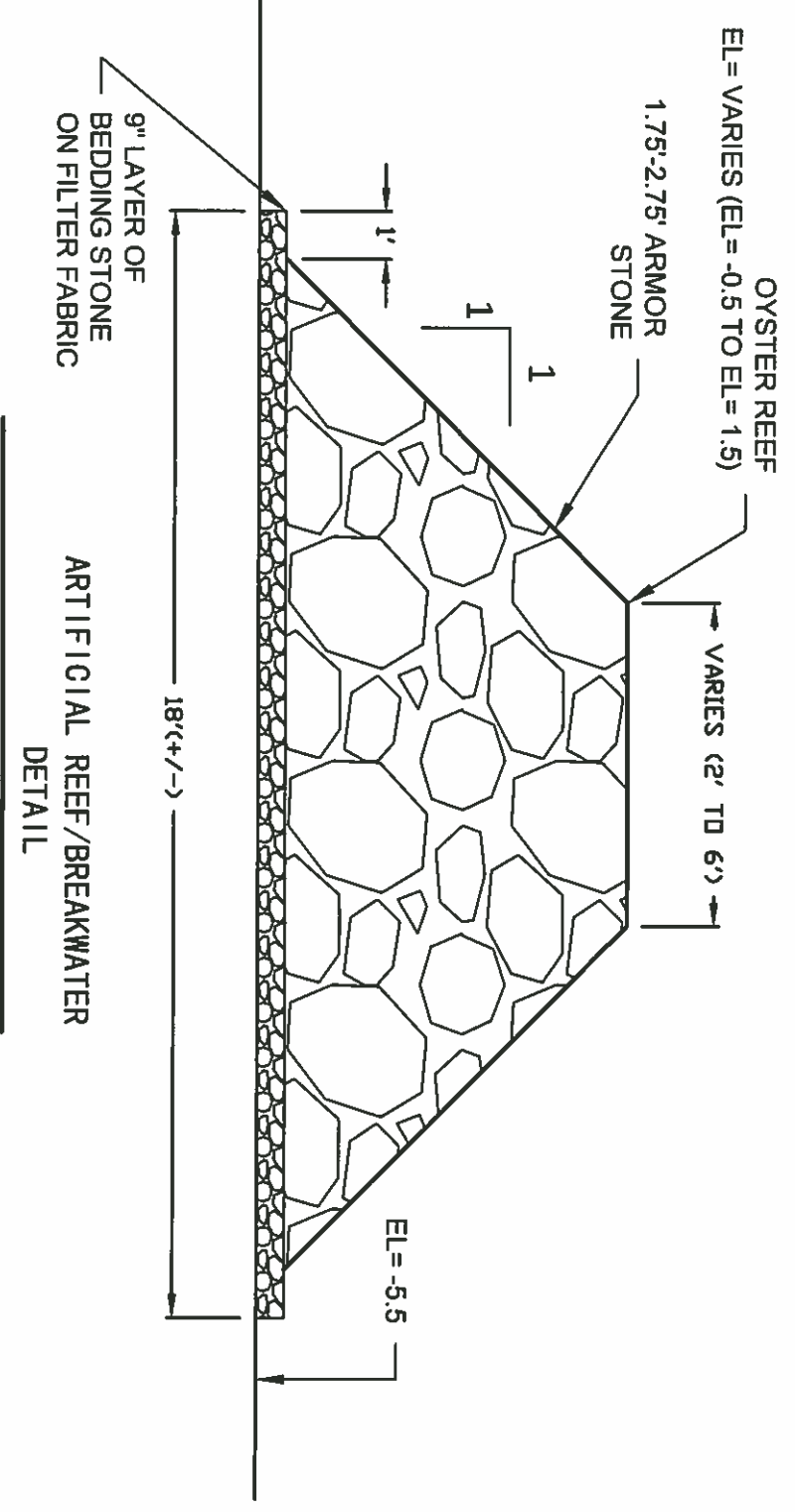
- NOTES:
1. FILTER FABRIC REQUIRED UNDER BEDDING STONE FOR ISLAND BREAKWATER.
 2. FILTER FABRIC NOT REQUIRED UNDER TAILINGS FOR BIRD ISLAND STABILIZATION.
 3. ALL ELEVATIONS IN FT-NAVD.

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 Michael Evans
 PE # 54793

Project TARPON COVE RESTORATION BREAKWATER DETAIL	Scale: AS NOTED Approved: [Signature] Drawn: [Signature] Checked: [Signature] Date: 5/23/17	No. _____ Rev. _____	
		Date: 5/23/17	

SEAL

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- NOTES:
1. FILTER FABRIC REQUIRED UNDER BEDDING STONE FOR ARTIFICIAL REEF/BREAKWATER.
 2. ALL ELEVATIONS IN FT-NAVD.

NOT TO SCALE

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 PE# 54793

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Project
TARPON COVE RESTORATION
 ARTIFICIAL REEF DETAIL

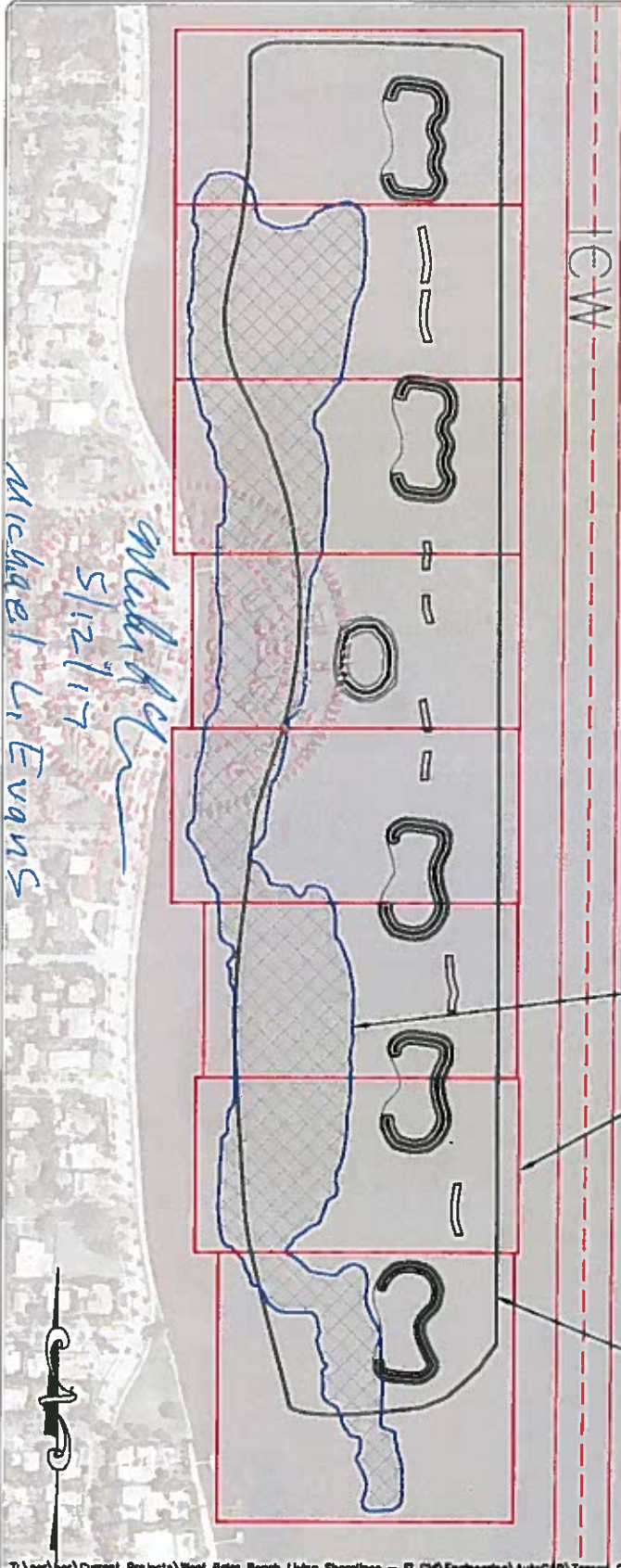
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Date	4/25/18
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PE # 54793



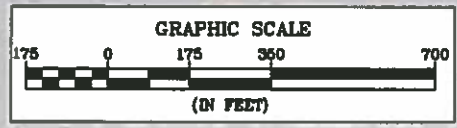
- NOTES:**
1. TURBIDITY CURTAINS TO BE DEPLOYED DURING PLACEMENT OF ALL TURBIDITY GENERATING ACTIVITIES.
 2. TURBIDITY CURTAIN TO BE MOVED CONSISTENTLY WITH WORK AREA.
 3. 50 FOOT BUFFER FROM ICW TO BE MAINTAINED AT ALL TIMES.
 4. TEMPORARY PIN PILES AS NEEDED TO MAINTAIN CURTAIN FOOTPRINT.
 5. TURBIDITY CURTAIN TO BE SET IN SMALLEST FOOTPRINT POSSIBLE TO ENCOMPASS ONGOING WORK AREA WITH NO IMPACT TO LOCAL NAVIGATION.
 6. CONTRACTOR TO SUBMIT TURBIDITY CONTROL PLAN TO PB COUNTY FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PROJECT MATERIALS.

- PROJECT FILL COMPONENTS:**
1. FILL EXISTING 15.9 ACRE DREDGE HOLE TO EL = -10.0 FT-NAVD (104,000 CY - SAND).
 2. FILL 39.9 ACRE RESTORATION AREA TO EL = -5.5 FT-NAVD TO PROVIDE HABITAT SUITABLE FOR SEAGRASS RECRUITMENT AND TO PROVIDE A STABLE SUBSTRATE FOR CONSTRUCTION OF ISLANDS AND BREAKWATERS (289,400 CY - SAND).
 3. FILL BEHIND BREAKWATERS TO CREATE MANGROVE ISLANDS (21,600 CY - SAND) AND BIRD ISLAND (3,600 CY - SAND).
 4. CONSTRUCT 2,600' OF MANGROVE ISLAND BREAKWATER (11,600 CY - ROCK), 440' OF BIRD ISLAND BREAKWATER (1,900 CY - ROCK) AND 780' OF ARTIFICIAL REEF/BREAKWATER (1,530 CY - ROCK).
- TOTAL SAND/LAGOON COMPATIBLE SEDIMENTS = 418,600 CY
 TOTAL ROCK = 15,030 CY
 TOTAL LINEAR FEET OF ROCK BREAKWATER = 3,820'

LIMITS OF DREDGE HOLE TO BE FILLED TO -10.0 (15.9 AC)

TURBIDITY CONTROL TO BE INSTALLED DURING ALL PLACEMENT OF MATERIAL. CONTRACTOR TO MOVE TURBIDITY CONTROL AS WORK PROGRESSES.

TOE OF RESTORATION FILL (39.9 AC)



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Project
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TURBIDITY CONTROL

SCALE

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