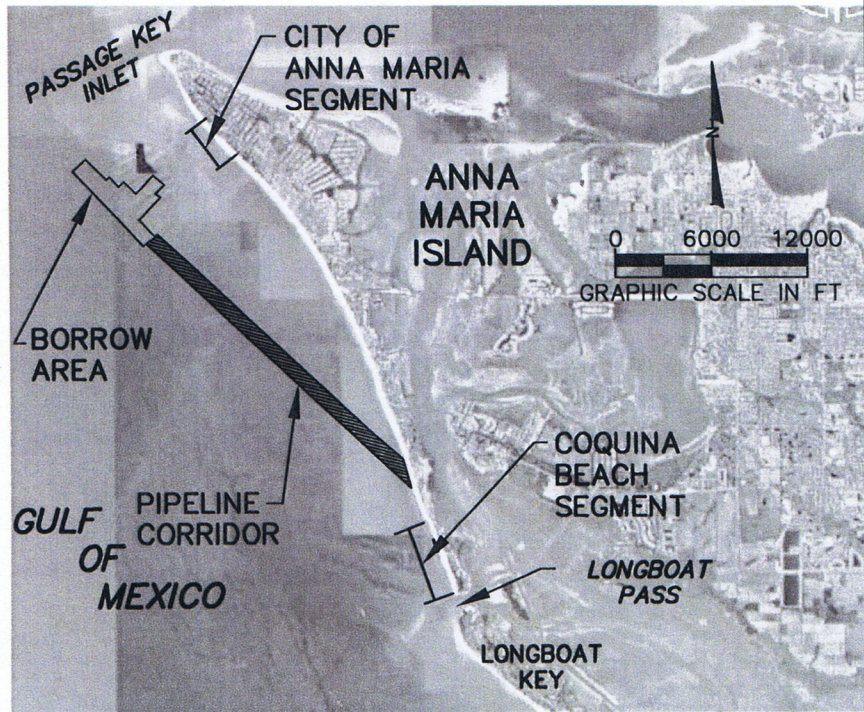
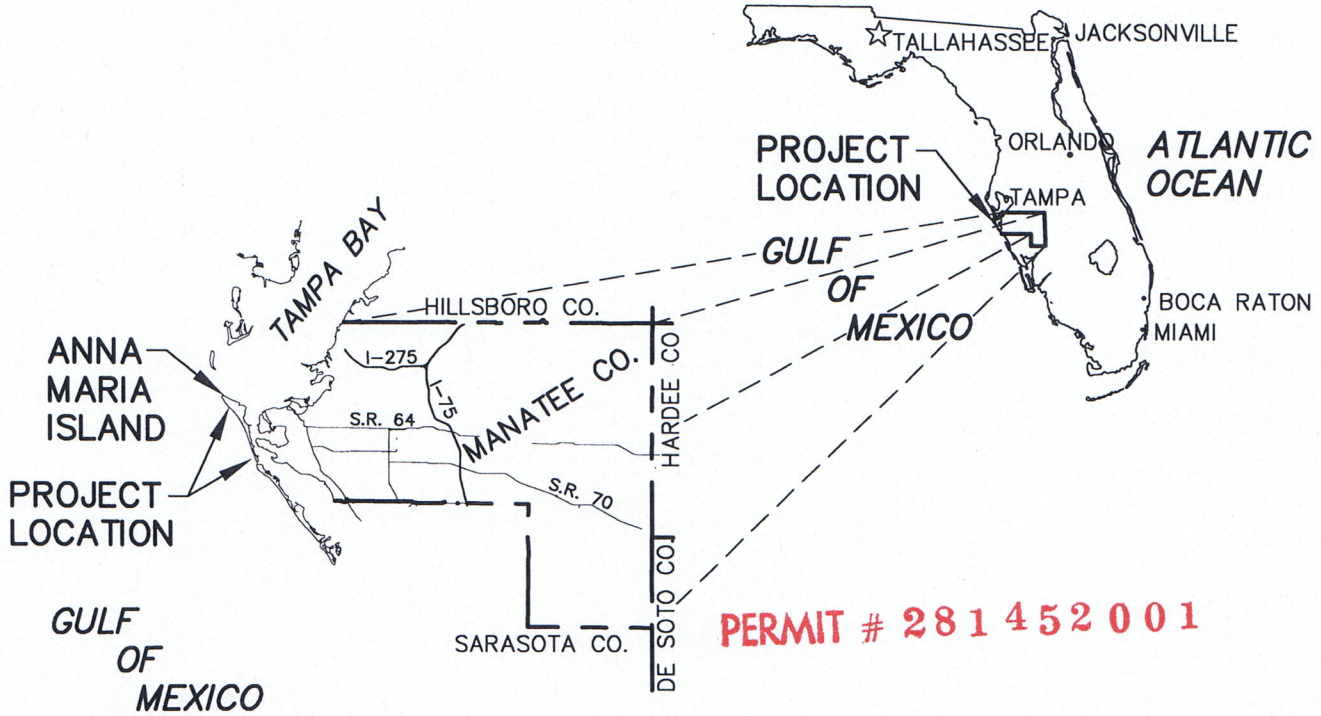


ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT MANATEE COUNTY, FLORIDA



SHEET INDEX

NO.	TITLE
1	COVER SHEET
2-5	PLAN VIEWS
6-11	FILL PROFILES
12-13	2008 BORROW AREA PLAN VIEW
14-16	2008 BORROW AREA CROSS SECTIONS
17	PIPELINE CORRIDOR DETAIL
18	PIPELINE CORRIDOR PLAN VIEW
19	GEOTEXTILE TUBE CROSS- SECTION

**NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY**

SMR

THOMAS P PIERRO P.E. NO. 64683

11/20/09

DATE

REVISIONS

DATE	BY	DESCRIPTION
1/4/09	JRC	RAI #1
5/1/09	RS	RAI #2 - GEOTEXTILE TUBE

**ANNA MARIA ISLAND
BEACH NOURISHMENT PROJECT
COVER SHEET**

COASTAL PLANNING & ENGINEERING, INC.

PH. (850) 395-6193
FAX. (850) 391-4116
C.O. A. FL. 84208
C.O. A. LA. 82331

2401 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33081

www.CoastalPlanning.net



DATE:

4/12/07

BY:

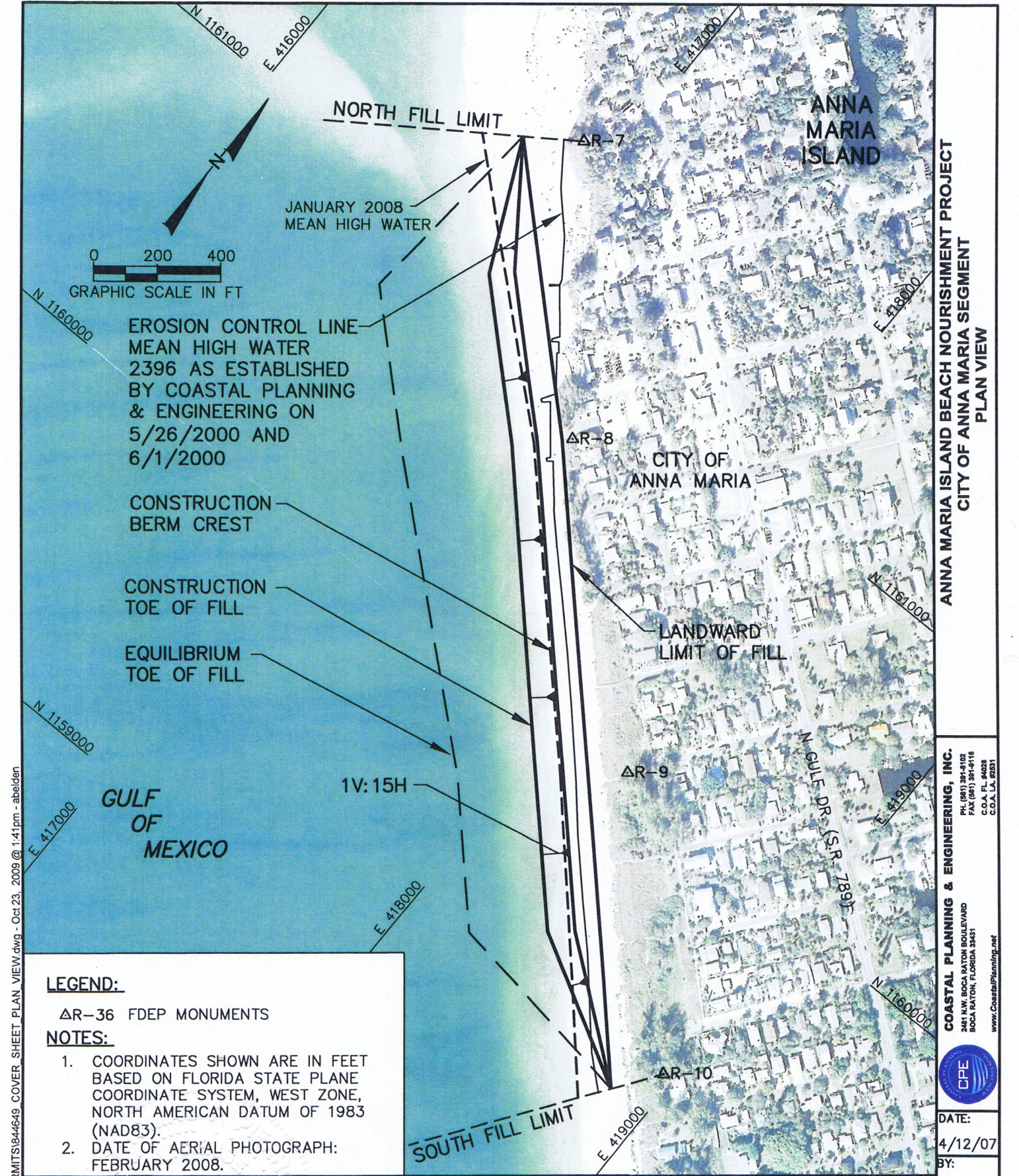
JRC

COMM NO.:

8446.49

SHEET:

1



ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
CITY OF ANNA MARIA SEGMENT
PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
 PH: (951) 381-6102
 FAX: (951) 381-6116
 C.O.A. FL 9408
 C.O.A. LA 6051
 2441 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 www.CoastalPlanning.net



DATE: 4/12/07
 BY: JRC

COMM NO.: 8446.49
 SHEET: 2

LEGEND:

ΔR-36 FDEP MONUMENTS

NOTES:

1. COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. DATE OF AERIAL PHOTOGRAPH: FEBRUARY 2008.

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Sm R

THOMAS P PIERRO P.E. NO. 64683

11/20/09
DATE

REVISIONS		
DATE	BY	DESCRIPTION
2/4/09	JRC	RAI #1

PERMIT # 281452001

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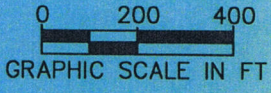
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SEPTEMBER 2009 DIVER
VERIFIED HARDBOTTOM
FDEP MONUMENTS

NOTES:

- COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- DATE OF AERIAL PHOTOGRAPH: FEBRUARY 2008.



JANUARY 2008
MEAN HIGH WATER

MEAN HIGH WATER/PROPOSED
EROSION CONTROL LINE,
ELEVATION +0.2 FEET
NAVD 1988, AS LOCATED BY
COASTAL PLANNING &
ENGINEERING ON JANUARY 22
& FEBRUARY 9, 2007

ΔR-33

**ANNA
MARIA
ISLAND**

EROSION CONTROL LINE
MEAN HIGH WATER 0836
AS ESTABLISHED BY
COASTAL PLANNING &
ENGINEERING
ON MAY 14, 1992

ΔR-34

**COQUINA
BEACH**

**ANNA
MARIA
SOUND**

ΔR-35

**GULF
OF
MEXICO**

N 1138000

N 1139000

E 431000

N 1138000

N 1137000

N 1137000

N 1136000

E 431000

MATCHLINE SEE SHEET 4

**ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
PLAN VIEW**

COASTAL PLANNING & ENGINEERING, INC.
PH: (861) 381-8102
FAX: (861) 381-8116
C.O.A. FL. #4028
C.O.A. LA. #2851

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.CoastalPlanning.net



DATE:
4/12/07

BY:
JRC

COMM NO.:

8446.49

SHEET:
3

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11/20/09

THOMAS P PIERRO P.E. NO. 64683

DATE

REVISIONS			
DATE	BY	RAI #1	DESCRIPTION
2/4/09	JRC		
10/23/09	TP		ADD 2009 HARDBOTTOM EDGE

PERMIT # 281452001

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MATCHLINE SEE SHEET 3

LEGEND:



SEPTEMBER 2009 DIVER
VERIFIED HARDBOTTOM

△ R-36

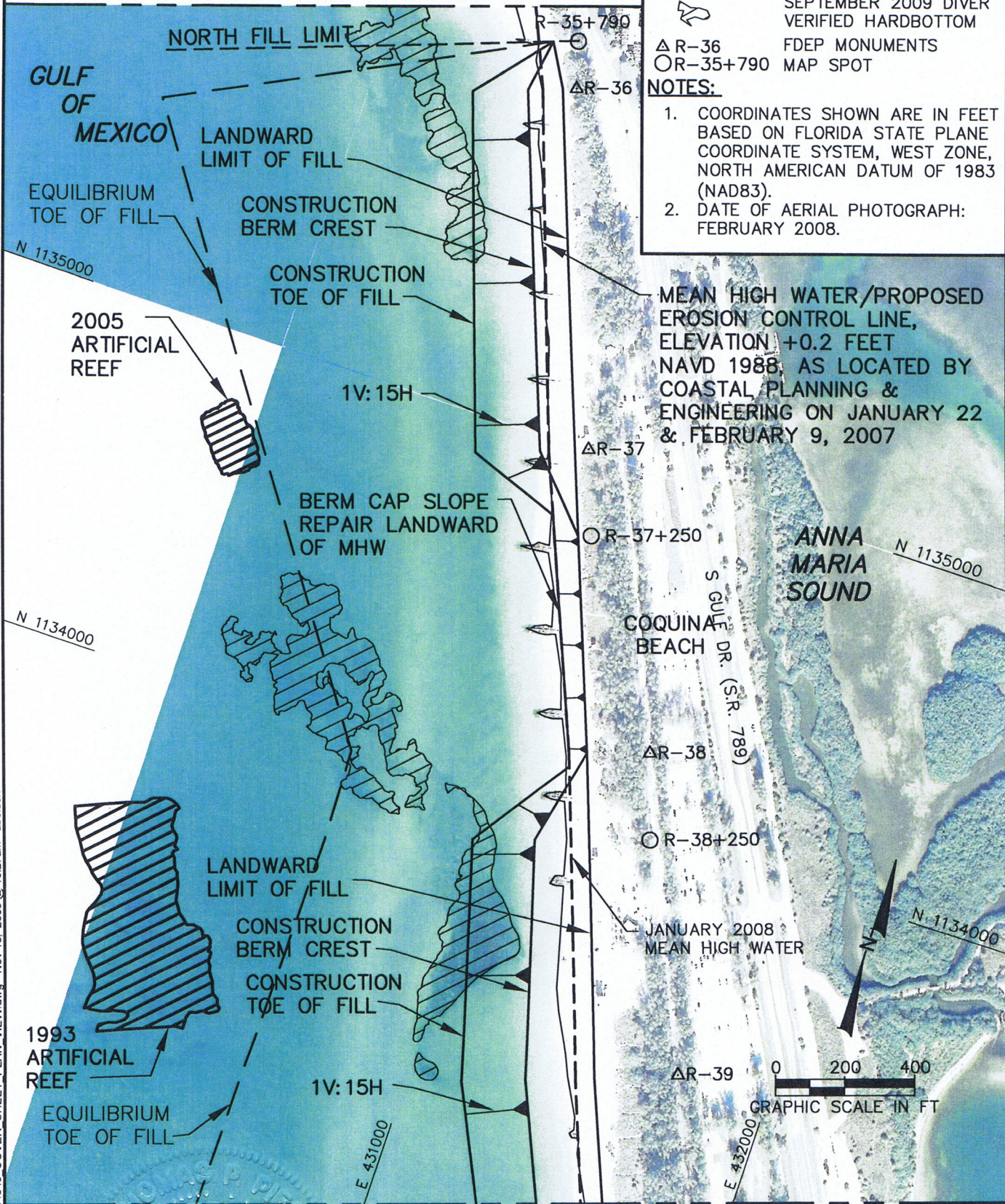
FDEP MONUMENTS

○ R-35+790

MAP SPOT

NOTES:

1. COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. DATE OF AERIAL PHOTOGRAPH: FEBRUARY 2008.



ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
PH: (851) 391-4102
FAX: (851) 391-4116
C.O.A. FL. #0028
C.O.A. LA. #2351

246 NW BSCA PATTON BOULEVARD
BSCA PATTON, FLORIDA 33411
www.CoastalPlanning.net



DATE:
4/12/07
BY:

JRC
COMM NO.:
8446.49
SHEET:
4

MATCHLINE SEE SHEET 5

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

Signature of Thomas P. Pierro

11/20/09

THOMAS P PIERRO P.E. NO. 64683

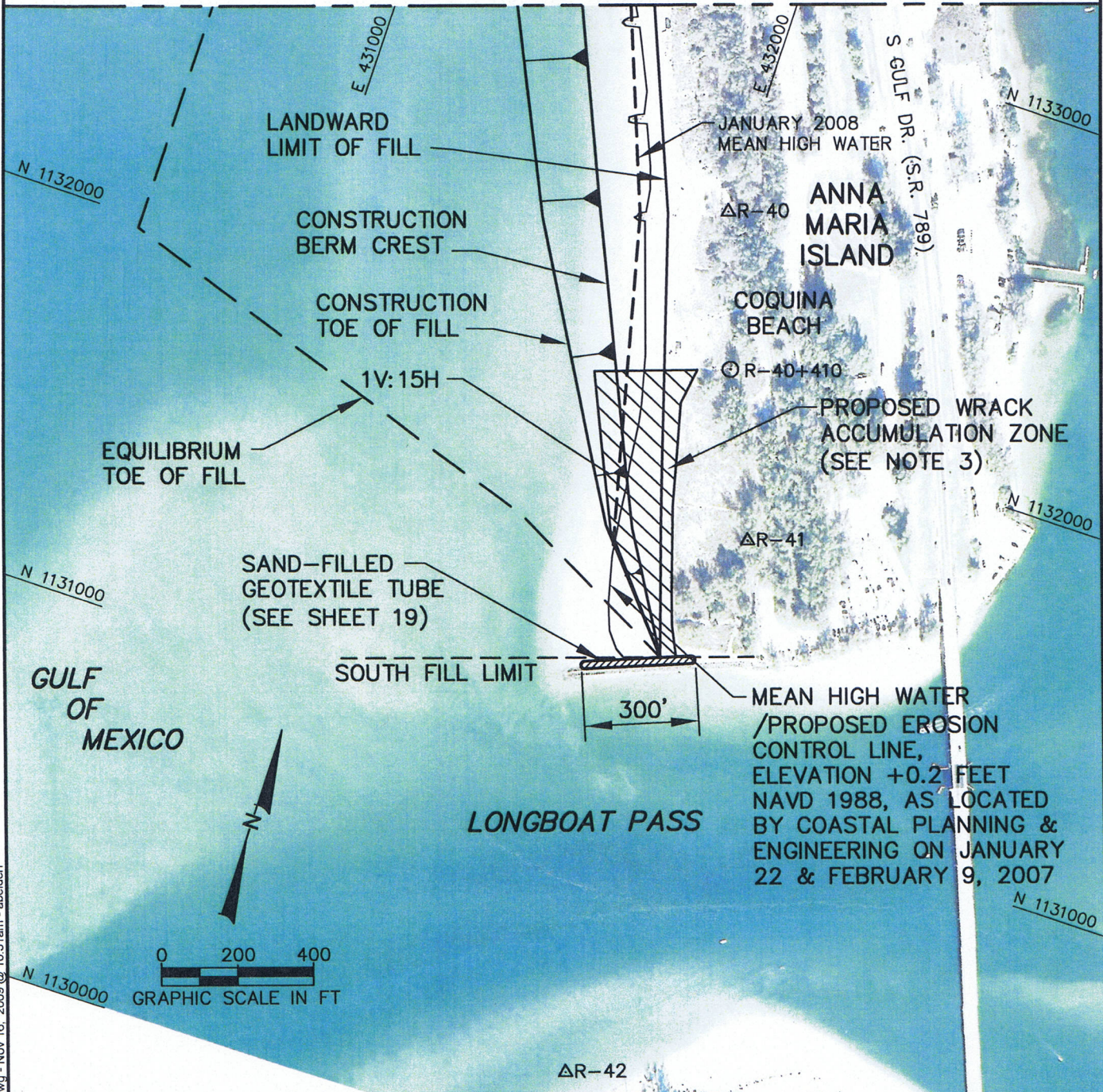
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REVISIONS			
DATE	BY	RAI #1	DESCRIPTION
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5/6/09	RWM	RAI #2	
0/23/09	TP		ADD 2009 HARDBOTTOM EDGE

PERMIT # 281452001

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MATCHLINE SEE SHEET 4



ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
2461 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
PH: (561) 391-4102
FAX: (561) 391-9116
C.O.A. FL #4028
C.O.A. LA #2351
www.CoastalPlanning.net



DATE: 4/12/07

BY: JRC

COMM NO.: 8446.49

SHEET: 5

LEGEND:

ΔR-36 FDEP MONUMENTS ⊙ R-40+410 MAP SPOT

NOTES:

- COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- DATE OF AERIAL PHOTOGRAPH: FEBRUARY 2008.
- A WRACK ACCUMULATION ZONE WILL BE DESIGNATED SOUTH OF R-40+410 WHERE BEACH RAKING AFTER CONSTRUCTION WILL BE LIMITED IN COOPERATION WITH USFWS AND FFCC.

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

Thomas P. Pierro

THOMAS P PIERRO P.E. NO. 64683

11/20/09

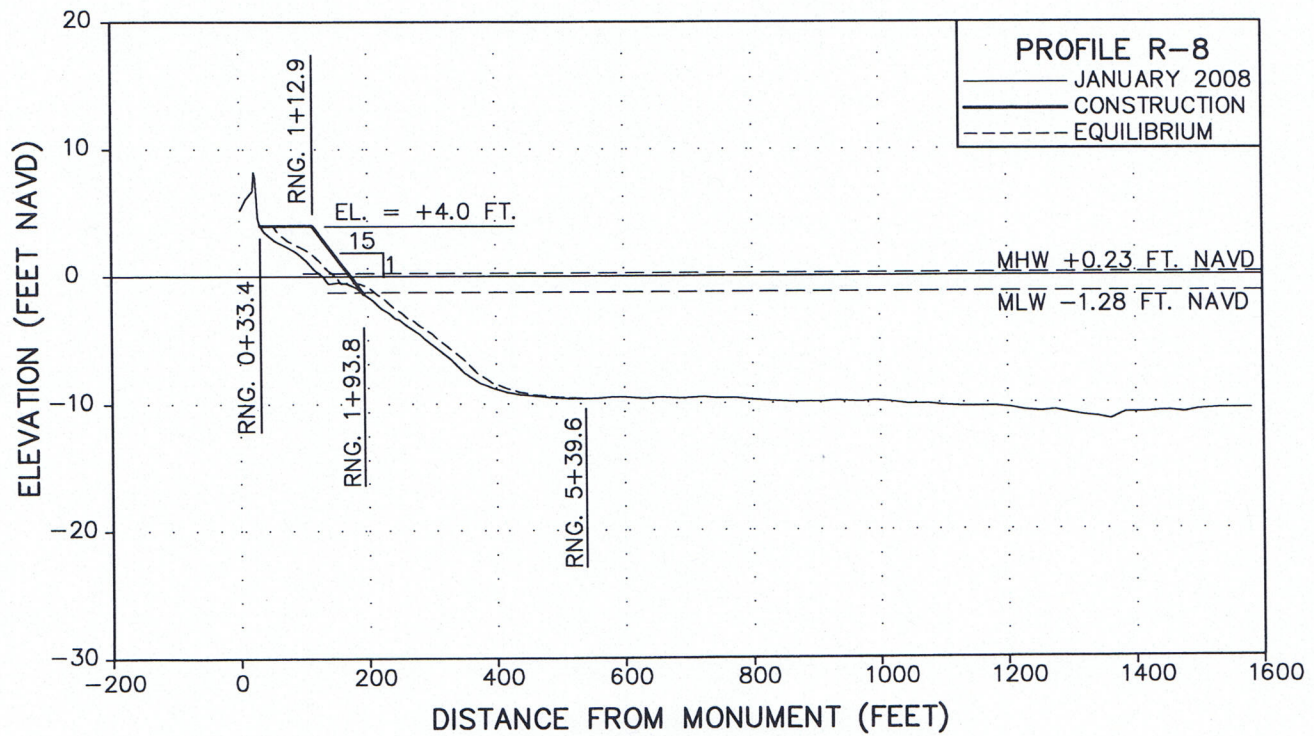
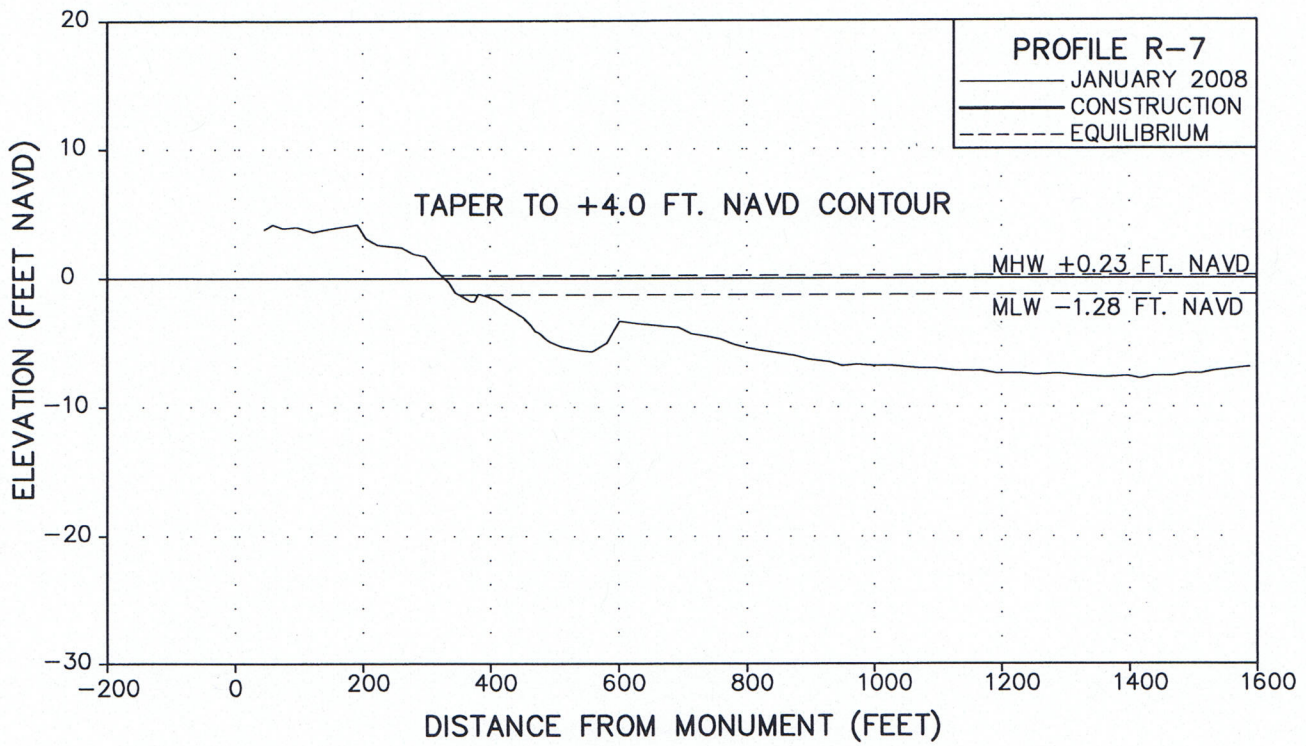
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REVISIONS

DATE	BY	DESCRIPTION
2/4/09	JRC	RAI #1
5/6/09	RWM	RAI #2
5/1/09	RS	RAI #2 - GEOTEXTILE TUBE
10/23/09	TP	ADD WRACK ZONE

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NOTE:

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

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THOMAS P. PIERRO

THOMAS P PIERRO P.E. NO. 64683

11/20/09

DATE

REVISIONS		
DATE	BY	DESCRIPTION
11/28/09	JRC	RAI #1

ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
CITY OF ANNA MARIA SEGMENT
FILL PROFILES

COASTAL PLANNING & ENGINEERING, INC.
PH. (851) 391-4102
FAX (851) 391-9116
C.O.A. FL. #4028
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.CoastalPlanning.net



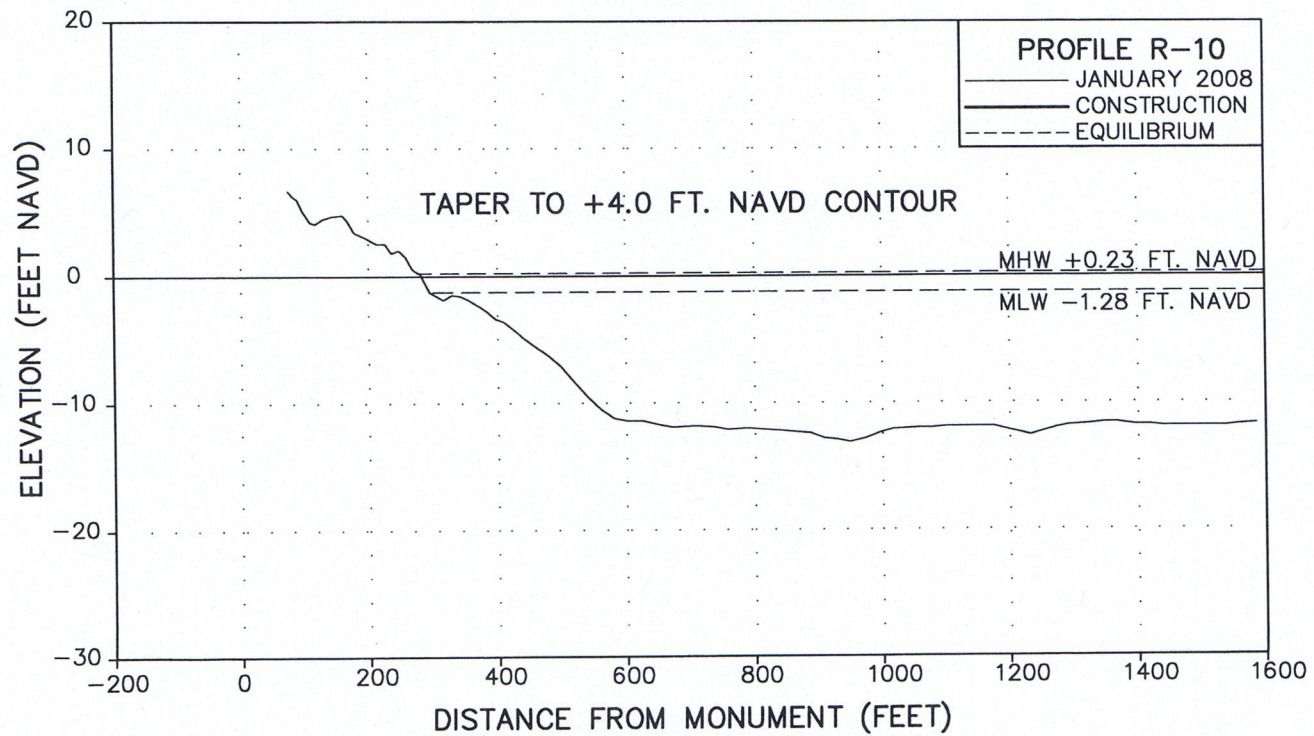
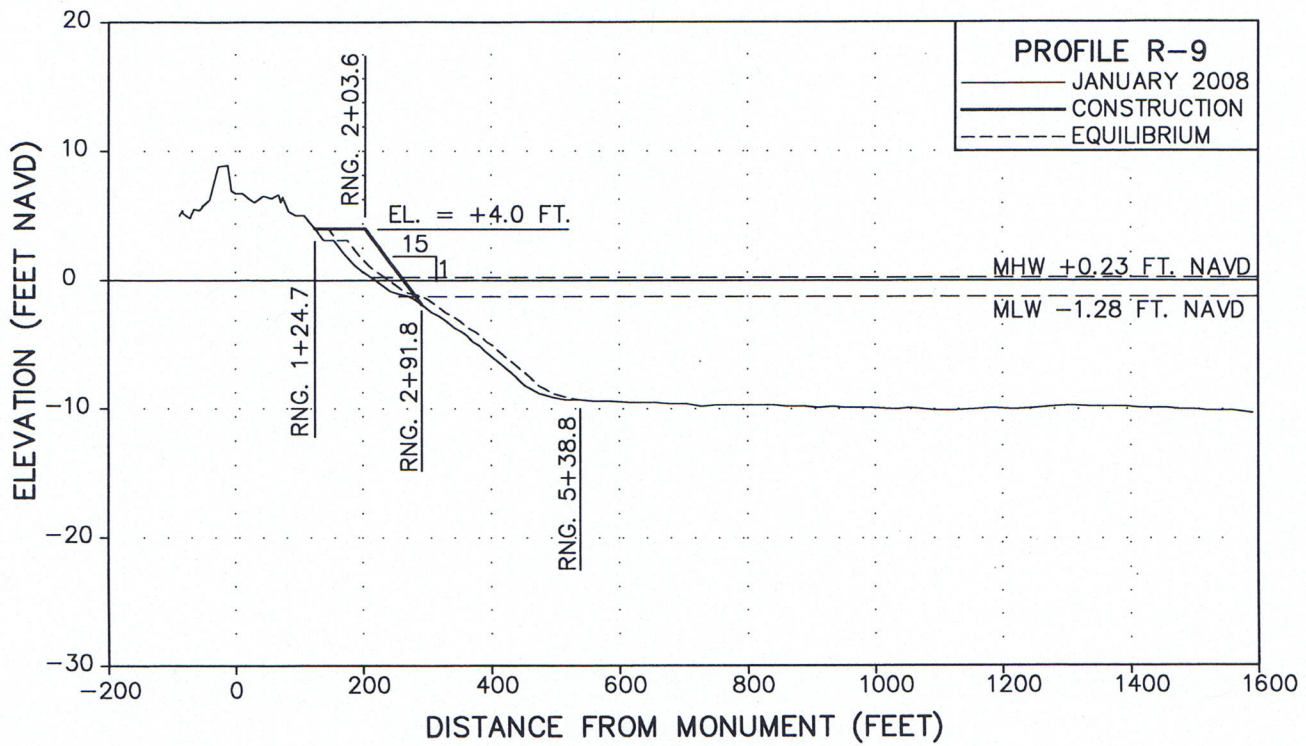
DATE:
4/12/07

BY:
JRC

COMM NO. 3
8446.49

SHEET:
6

PERMIT # 281452001



NOTE:

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

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FOR REGULATORY REVIEW ONLY

Signature of Thomas P. Pierro

THOMAS P. PIERRO P.E. NO. 64683

6/1/20/09

DATE

REVISIONS		
DATE	BY	DESCRIPTION
7/28/09	JRC	RAI #1

ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
CITY OF ANNA MARIA SEGMENT
FILL PROFILES

COASTAL PLANNING & ENGINEERING, INC.
PH. (850) 381-8102
FAX (850) 381-8116
2484 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
C.O.A. FL. #4028
www.CoastalPlanning.net



DATE:
4/12/07

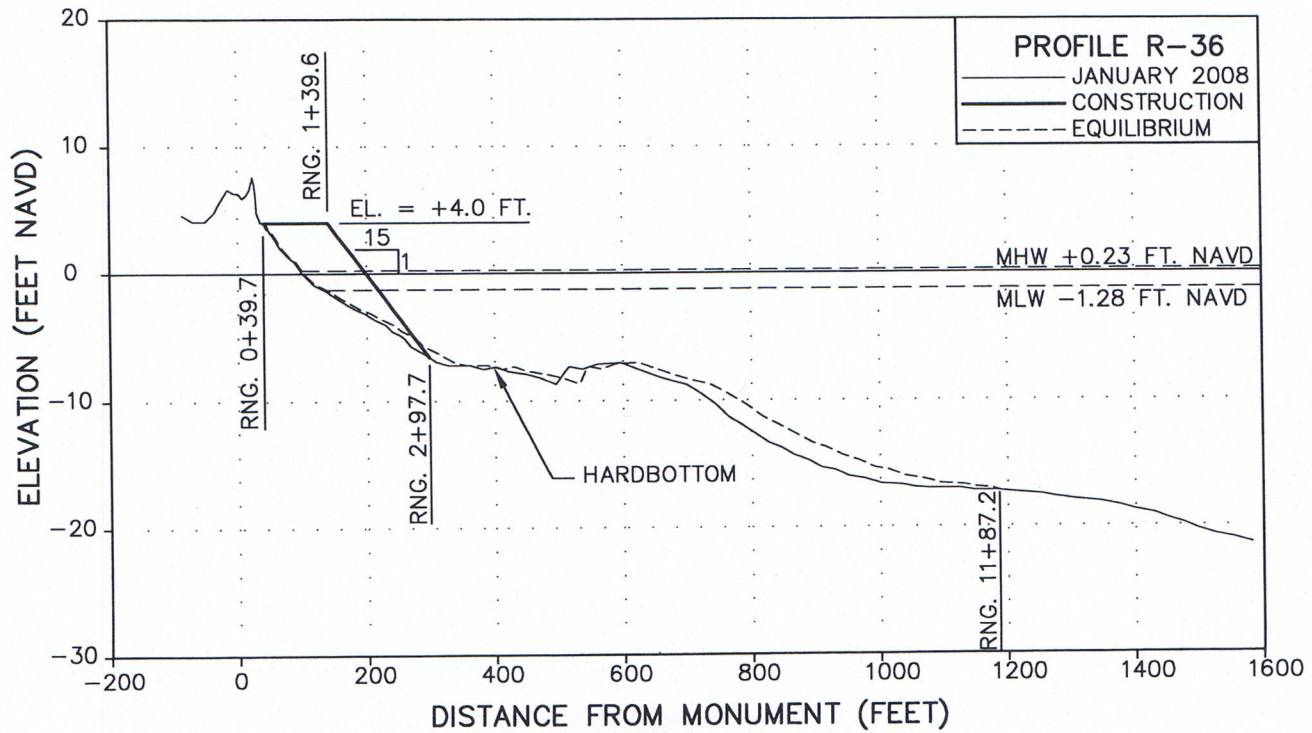
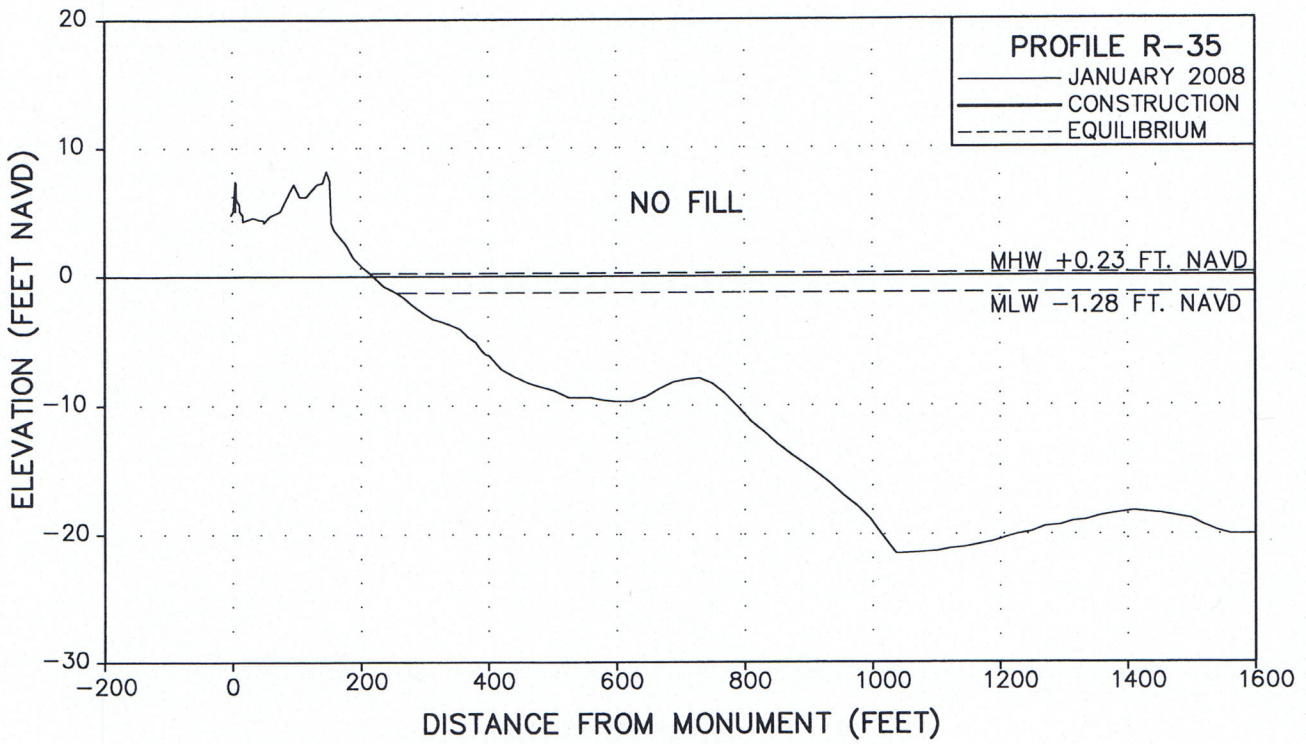
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JRC

COMM NO.:
8446.49

SHEET:
7

PERMIT # 281452001

ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
FILL PROFILES



NOTE:

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

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THP

THOMAS P PIERRO P.E. NO. 54683

11/20/09

DATE

REVISIONS		
DATE	BY	DESCRIPTION
7/28/09	JRC	RAI #1

COASTAL PLANNING & ENGINEERING, INC.
 PH. (851) 381-8102
 FAX (851) 381-8116
 C.O.A. FL. #4028
 C.O.A. LA. #2351
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 www.CoastalPlanning.net

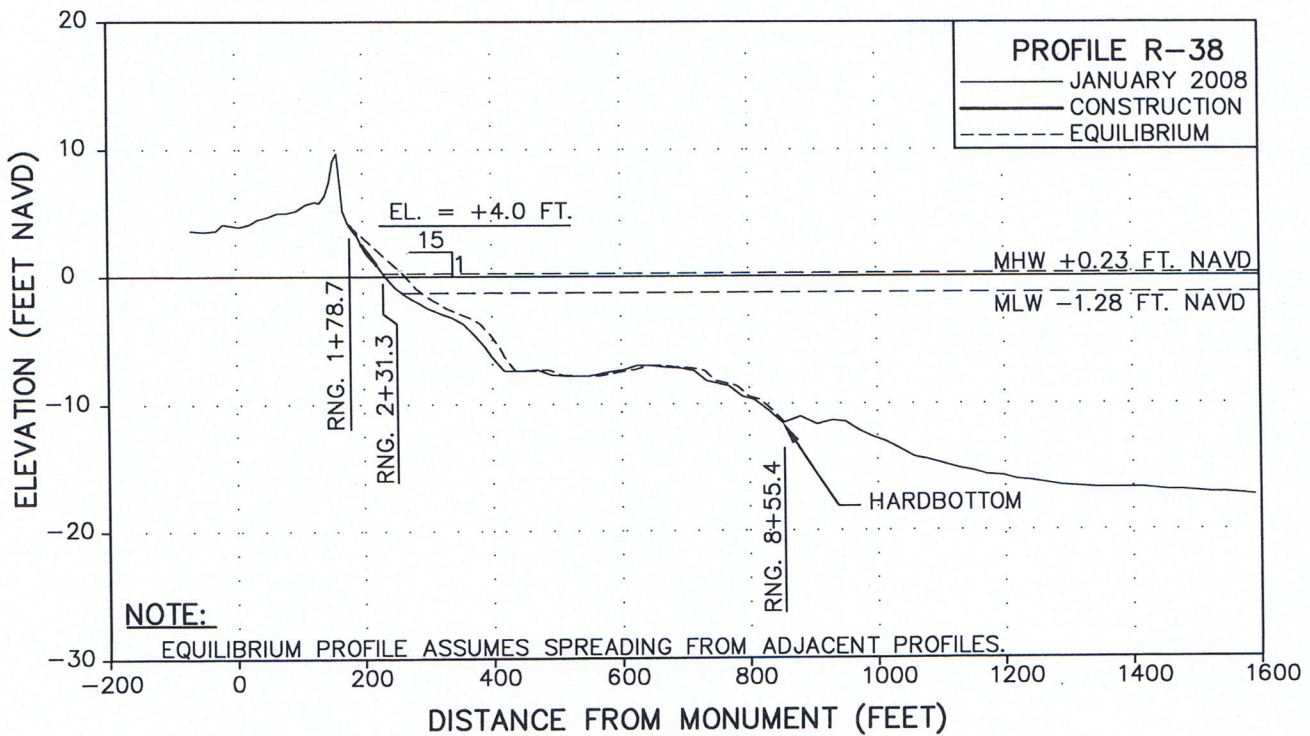
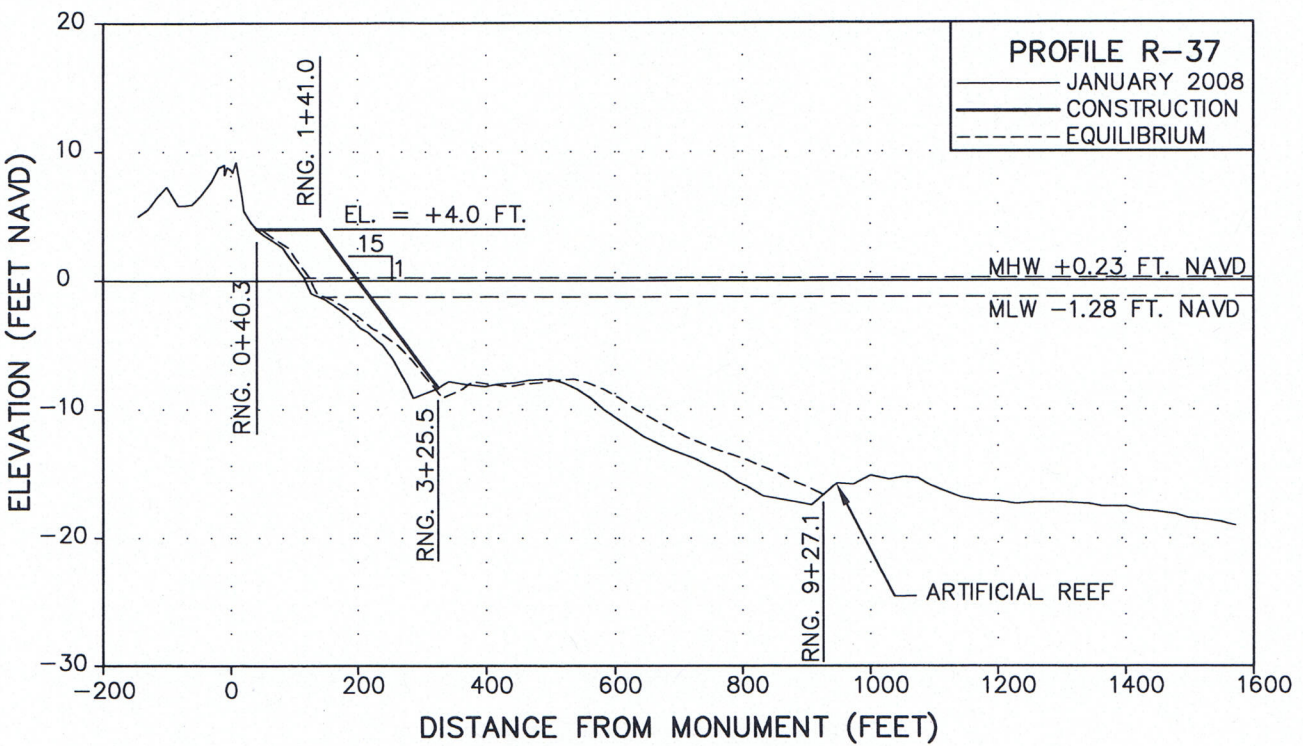


DATE: 4/12/07
 BY: JRC
 COMM NO.: 8446.49
 SHEET: 8

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ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
FILL PROFILES



NOTE:
 EQUILIBRIUM PROFILE ASSUMES SPREADING FROM ADJACENT PROFILES.

NOTE:
 MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

NOT FOR CONSTRUCTION
 FOR REGULATORY REVIEW ONLY

Thomas P. Pierro

THOMAS P. PIERRO P.E. NO. 64683

11/20/09
 DATE

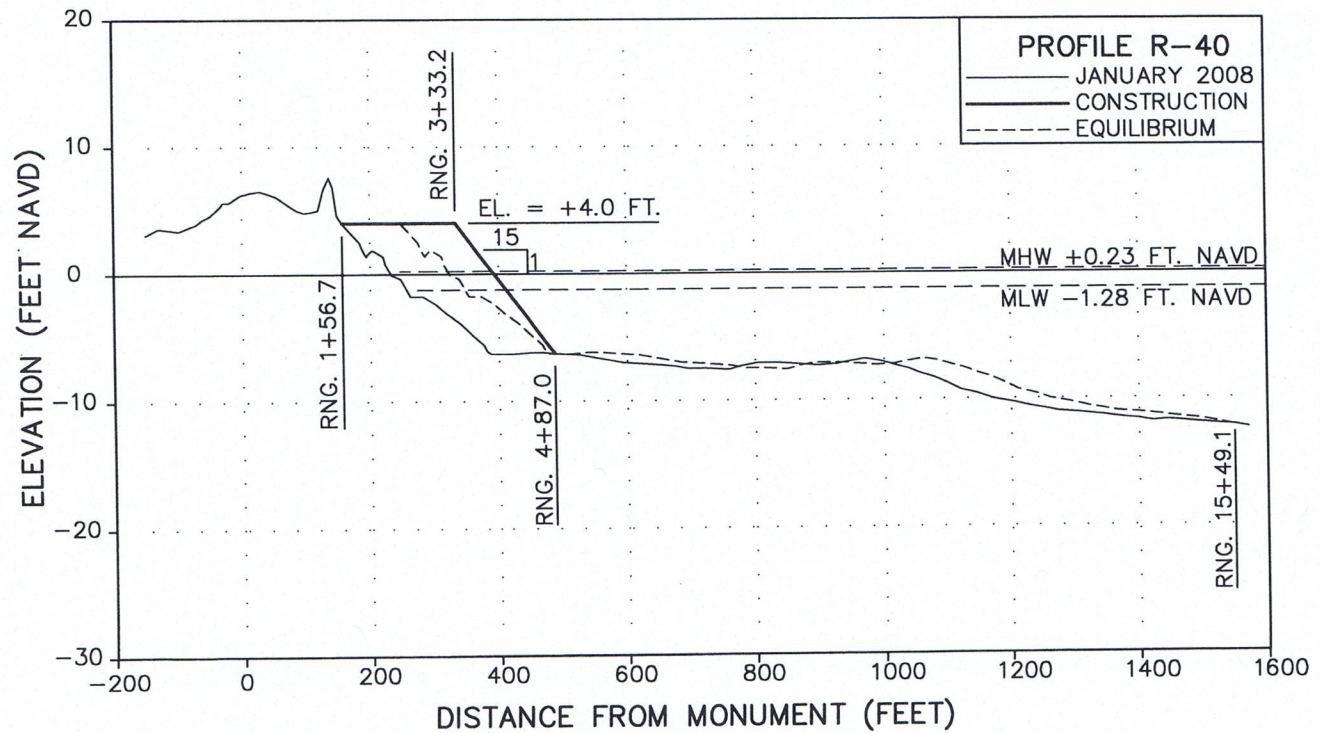
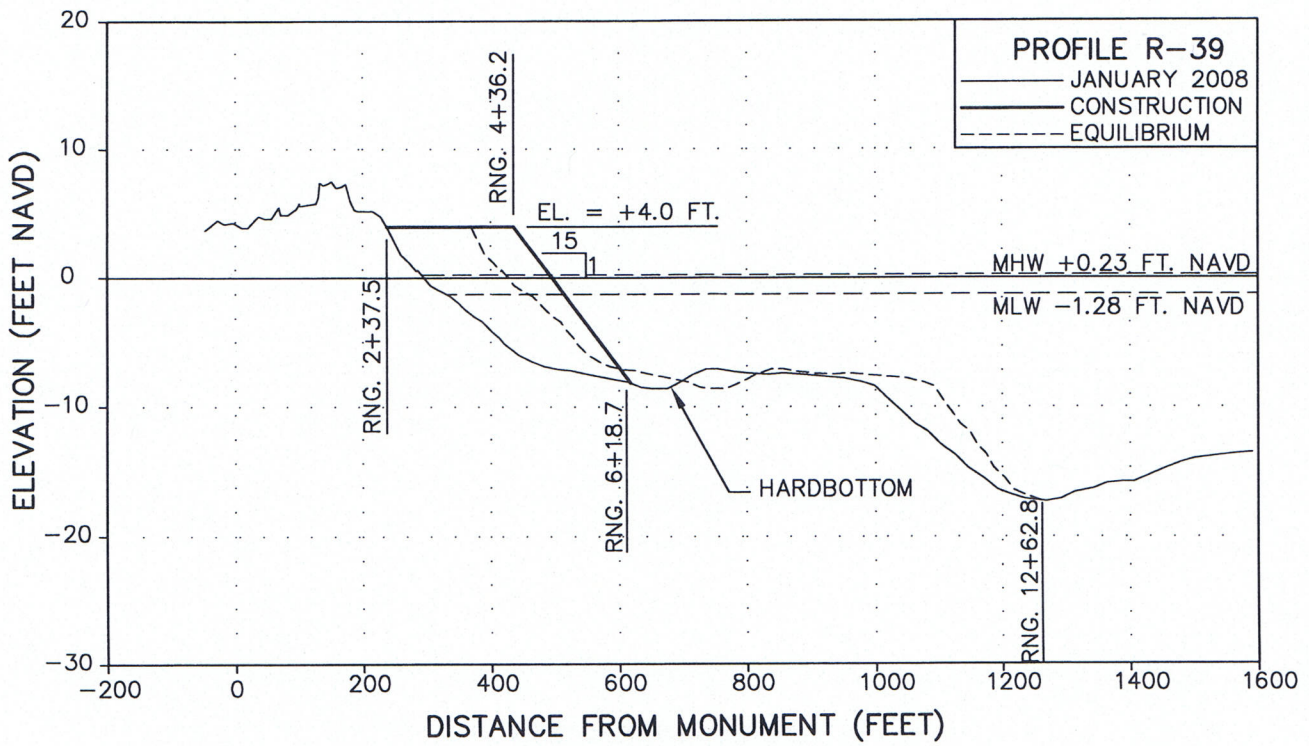
REVISIONS		
DATE	BY	DESCRIPTION
1/28/09	JRC	RAI #1
5/1/09	RS	RAI #2

COASTAL PLANNING & ENGINEERING, INC.
 PH. (851) 381-8102
 FAX (851) 381-8116
 C.O.A. FL #4028
 C.O.A. LA #2331
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33411
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COMM NO.:	8446.49
SHEET:	9

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NOTE:

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

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Em R

THOMAS P PIERRO P.E. NO. 64683

11/20/09
DATE

REVISIONS		
DATE	BY	DESCRIPTION
/28/09	JRC	RAI #1

DATE:
4/12/07
BY:
JRC
COMM NO.:
8446.49
SHEET:
10

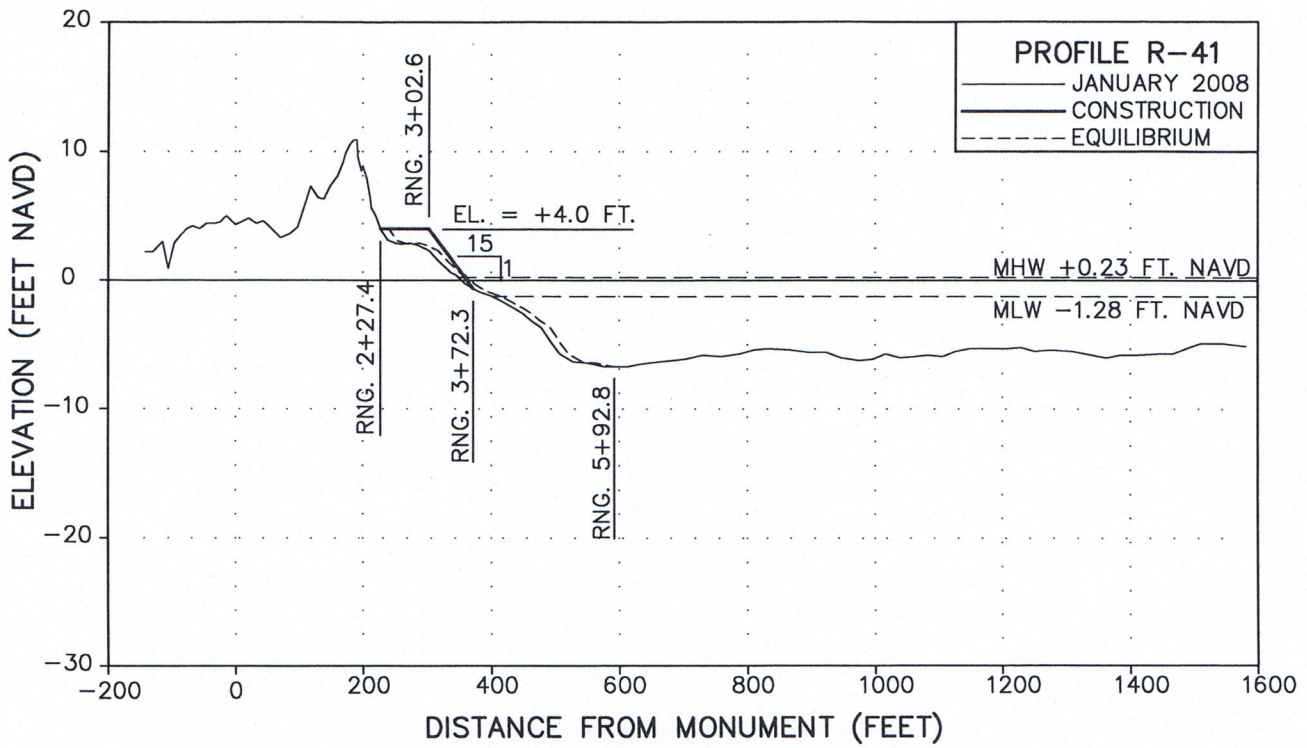
ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
FILL PROFILES

COASTAL PLANNING & ENGINEERING, INC.
PH. (981) 391-9102
FAX (981) 391-9116
C.O.A. FL. #4028
C.O.A. LA. #2351
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
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ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
FILL PROFILES

COASTAL PLANNING & ENGINEERING, INC.
 PH. (851) 391-9102
 FAX (851) 391-9116
 C.O.A. FL. #4029
 C.O.A. LA. #2351
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 www.CoastalPlanning.net



NOTE:

MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS PUBLISHED IN NAVD 88, FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) BASED ON EPOCH 1983-2001 TIDE INTERPOLATION POINT IDENTIFICATION NUMBER 200904.

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4/12/07

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REVISIONS		
DATE	BY	DESCRIPTION
7/28/09	JRC	RAI #1

COMM NO. 3
8446.49

SHEET:
11

Thomas P. Pierro

 THOMAS P PIERRO P.E. NO. 64683

11/20/09

 DATE

PERMIT # 281452001

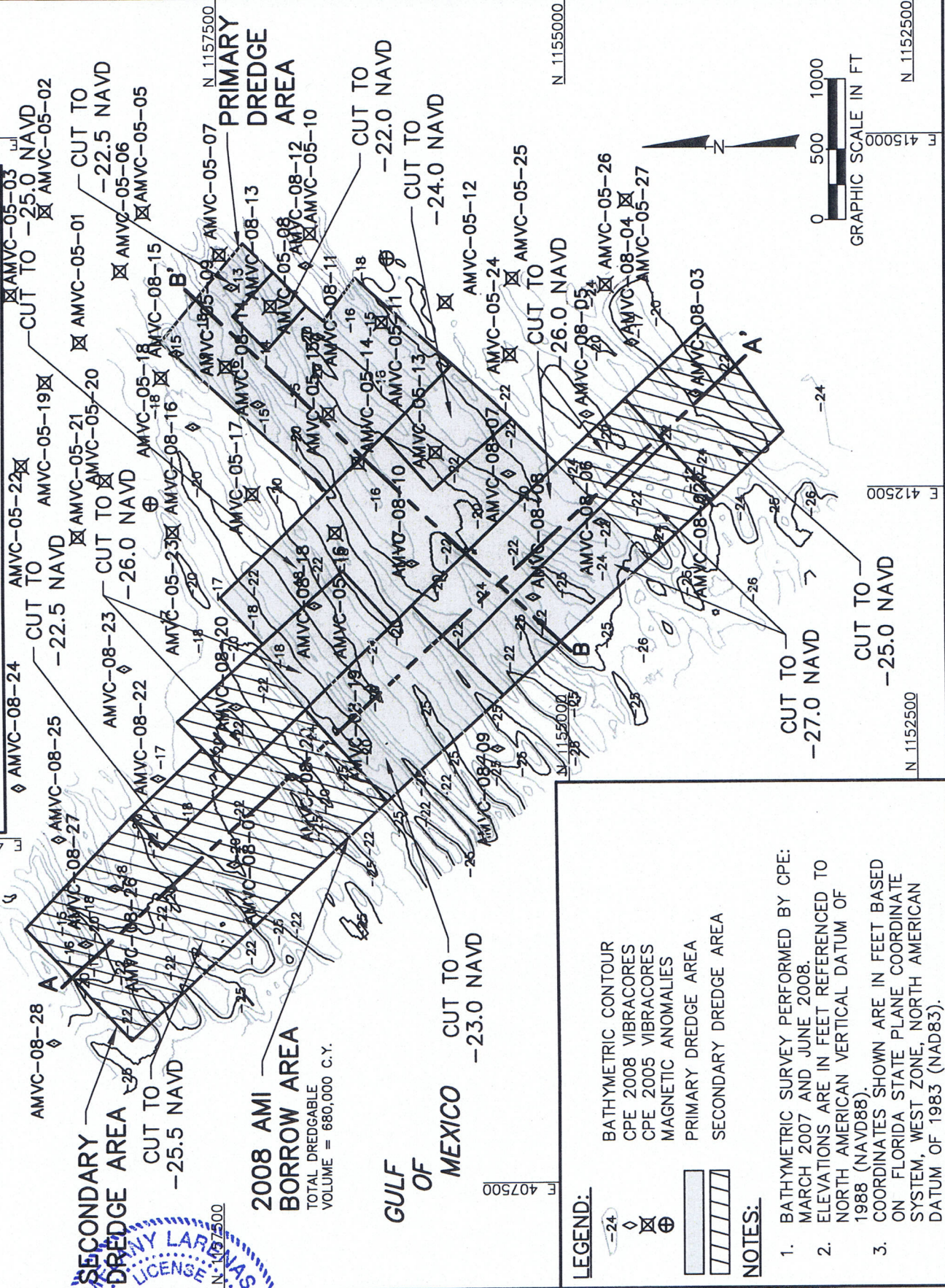
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PRIMARY DREDGABLE VOLUME = 421,500 C.Y.
SECONDARY DREDGABLE VOLUME = 258,500 C.Y.

410000

415000



AMVC-08-28

SECONDARY DREDGE AREA

CUT TO -25.5 NAVD

2008 AMI BORROW AREA

TOTAL DREDGABLE VOLUME = 680,000 C.Y.

GULF OF MEXICO

CUT TO -23.0 NAVD

407500

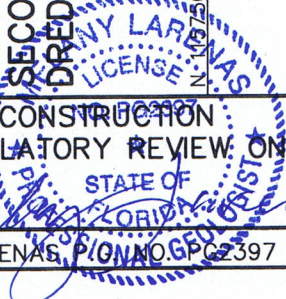
LEGEND:

- BATHYMETRIC CONTOUR
- CPE 2008 VIBRACORES
- CPE 2005 VIBRACORES
- MAGNETIC ANOMALIES
- PRIMARY DREDGE AREA
- SECONDARY DREDGE AREA

NOTES:

- BATHYMETRIC SURVEY PERFORMED BY CPE: MARCH 2007 AND JUNE 2008.
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

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MELANY LARENAS, P.I. NO. 0067397

11/18/09
DATE

REVISIONS		
DATE	BY	DESCRIPTION
10/30/08	JRC	REV. BORROW AREA
1/4/09	JRC	RAI #1

TITLE:

ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
2008 BORROW AREA BATHYMETRY

COASTAL PLANNING & ENGINEERING, INC.
2485 NW BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
PH: (951) 351-8102
FAX: (951) 351-8116
C.O.A. FL. #4028
C.O.A. LA. #2531
www.CoastalPlanning.net

DATE:	JRC
8/9/08	COMM NO.:
BY:	8446.49
	SHEET:
	12

PERMIT # 281452001

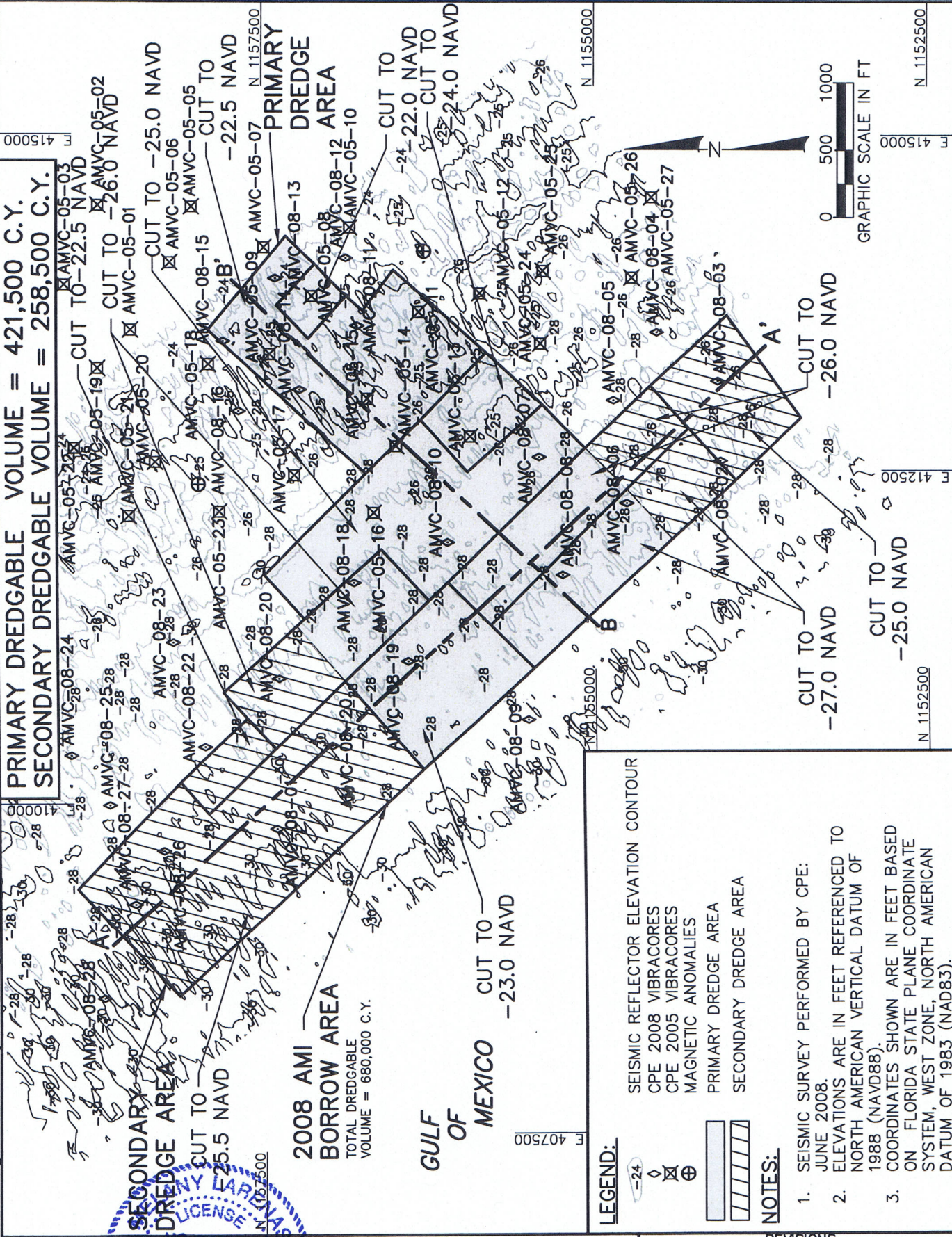
PRIMARY DREDGABLE VOLUME = 421,500 C.Y.
SECONDARY DREDGABLE VOLUME = 258,500 C.Y.

NOT FOR CONSTRUCTION
 FOR REGULATORY REVIEW ONLY

MELANY LARENAS P.W.C. NO. R62397



11/18/09
 DATE



LEGEND:

- 24
- ◊
- ⊕
- ▨
- ▩

NOTES:

- SEISMIC REFLECTOR ELEVATION CONTOUR
- CPE 2008 VIBRACORES
- CPE 2005 VIBRACORES
- MAGNETIC ANOMALIES
- PRIMARY DREDGE AREA
- SECONDARY DREDGE AREA

NOTES:

- SEISMIC SURVEY PERFORMED BY CPE: JUNE 2008.
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- COORDINATES SHOWN ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

REVISIONS		
DATE	BY	DESCRIPTION
10/30/08	JRC	REV. BORROW AREA
1/4/09	JRC	RAI #1

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH. (561) 391-8102
 FAX. (561) 391-8116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net

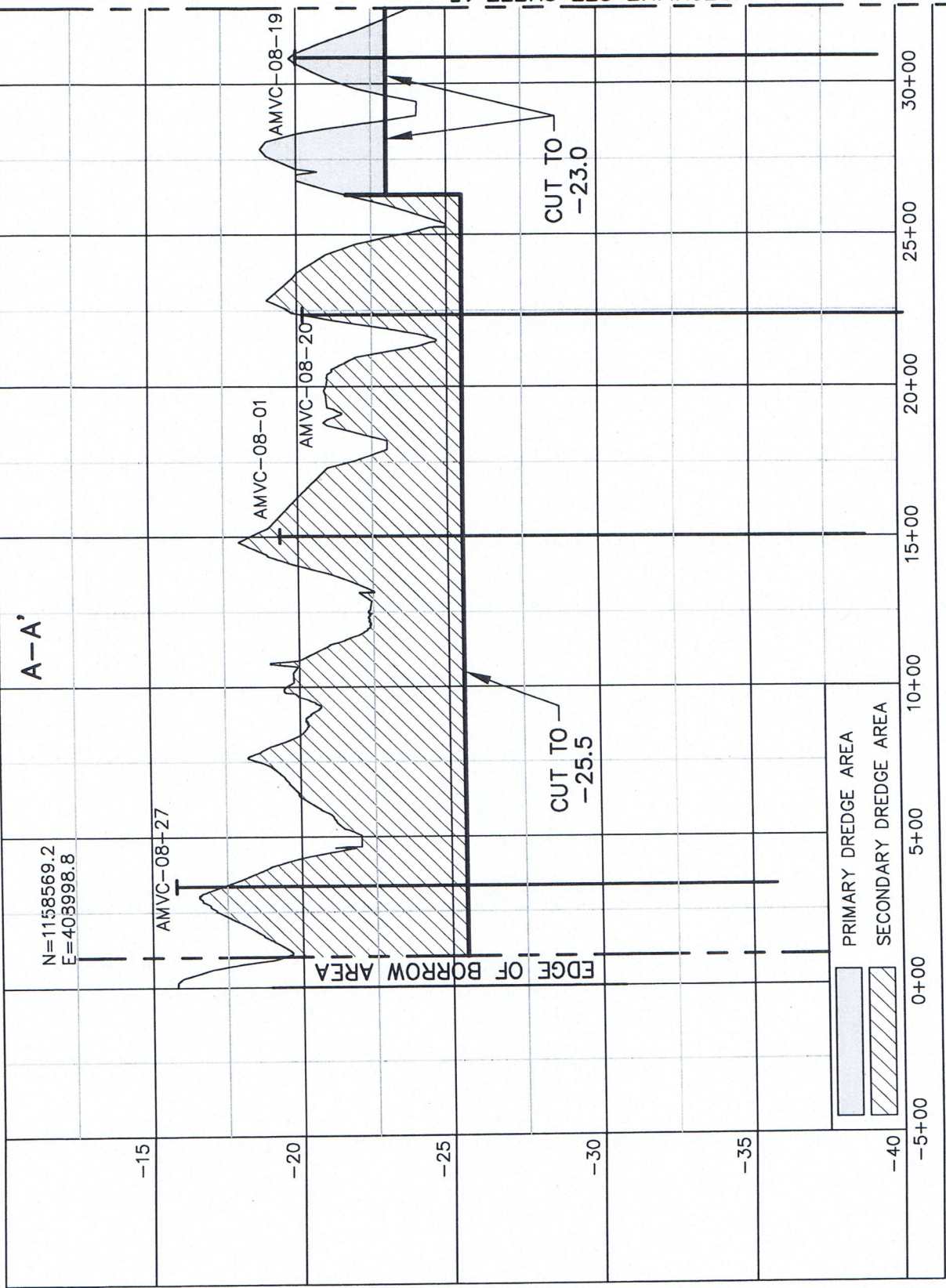
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ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
2008 BORROW AREA SEISMIC REFLECTOR CONTOUR MAP

DATE: 8/9/08
BY: JRC

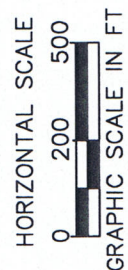
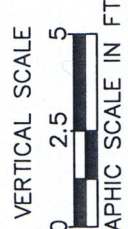
COMM NO.: 8446.49
SHEET: 13

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MATCHLINE SEE SHEET 15



DISTANCE (FEET)



NOTES:
 1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
 2. SEE SHEET 12 FOR LOCATION OF CROSS SECTION LINE.
 3. ELEVATION BASED ON NAVD 88.

ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
 2008 BORROW AREA CROSS SECTION A-A'

TITLE:
COASTAL PLANNING & ENGINEERING, INC.
 PH: (851) 351-8102
 FAX: (851) 351-5116
 BOCA RATON, FLORIDA 33431
 C.O.A. # 4028
 C.O.A. # 4028
 www.CoastalPlanning.net



DATE:
 8/9/07

BY:
 JRC

COMM NO.:

8446.49

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 14

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 FOR REGULATORY REVIEW ONLY

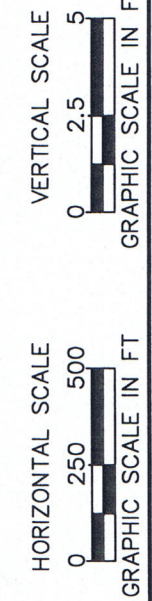
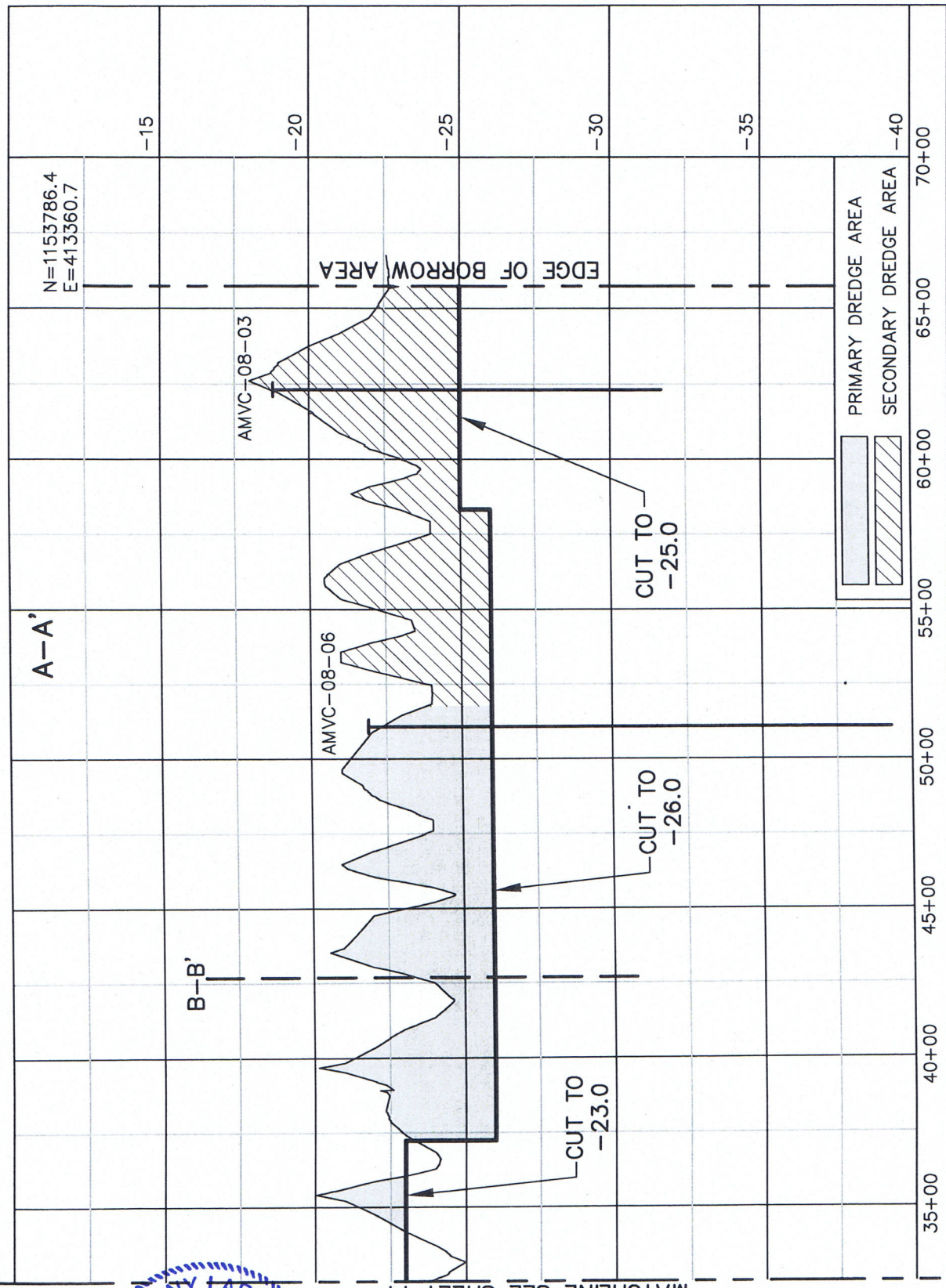
MELANY LARENAS, R.G. NO. 162397
 STATE OF FLORIDA
 PROFESSIONAL GEODESIST

11/18/09
 DATE

REVISIONS			
DATE	BY	DESCRIPTION	RAI #1
2/4/09	JRC		

PERMIT # 281452001

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NOTES:

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 12 FOR LOCATION OF CROSS SECTION LINE.
3. ELEVATION BASED ON NAVD 88.

**ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
2008 BORROW AREA CROSS SECTION A-A'**

TITLE:
COASTAL PLANNING & ENGINEERING, INC.
PH. (861) 391-8102
FAX (861) 391-8116
C.O.A. FL #4029
C.O.A. LA #7531
www.CoastalPlanning.net

DATE: 8/9/07
BY: JRC
COMM NO.: 8446.49
SHEET: 15

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

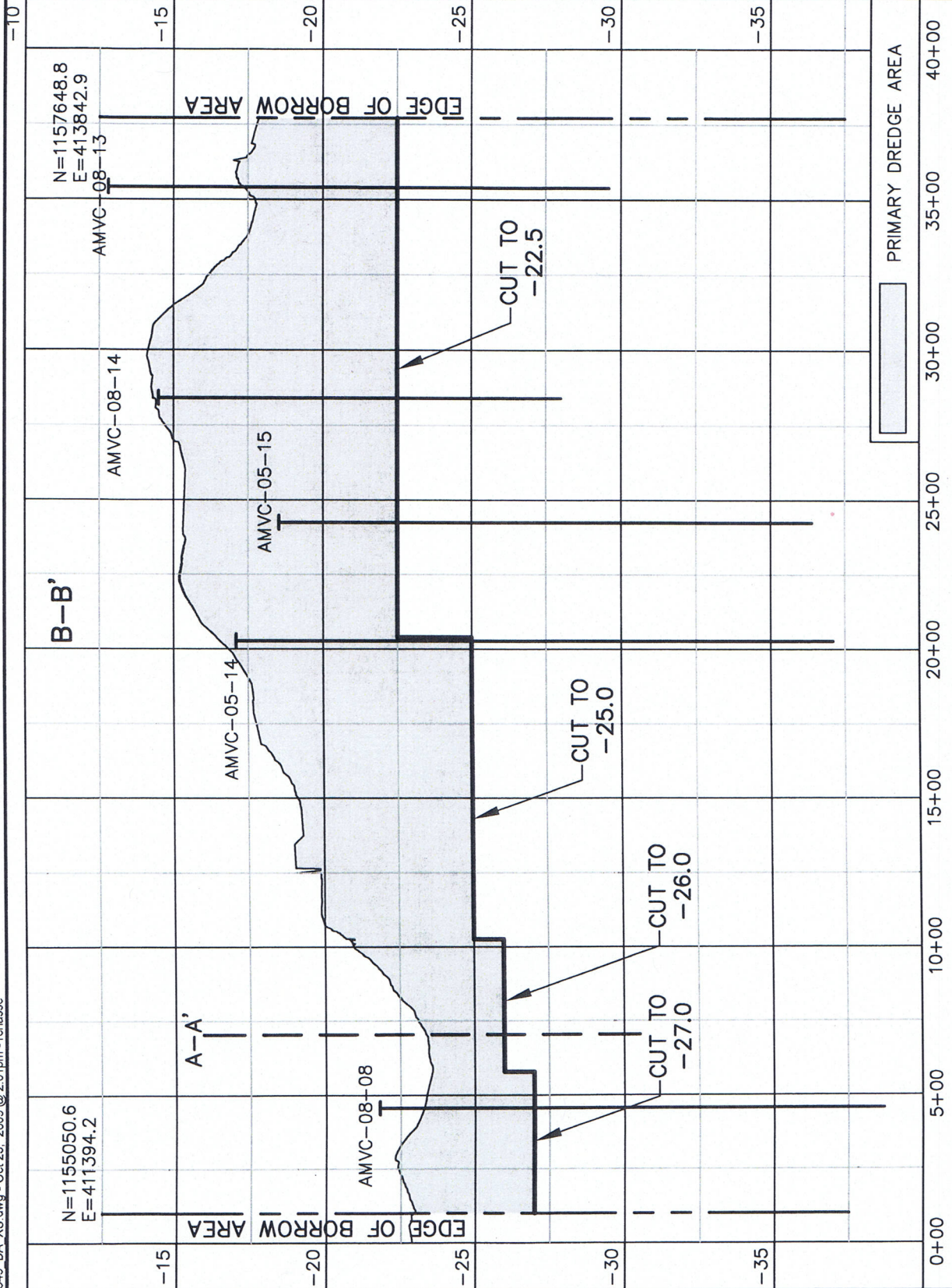
MELANY LARENAS, P.E. NO. 2397
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

11/18/09
DATE

REVISIONS			
DATE	BY	RAI #1	DESCRIPTION
1/4/09	JRC	RAI #1	

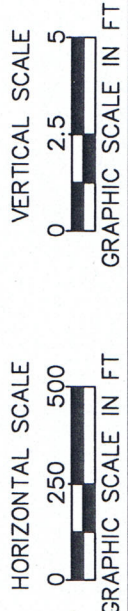
PERMIT # 281452001

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NOTES:

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 12 FOR LOCATION OF CROSS SECTION LINE.
3. ELEVATION BASED ON NAVD 88.



**ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
2008 BORROW AREA CROSS SECTION B-B'**

TITLE:
COASTAL PLANNING & ENGINEERING, INC.
PH. (861) 391-8102
FAX (861) 391-8116
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
C.O.A. FL. #4028
C.O.A. LA. #7931
www.CoastalPlanning.net



DATE: 8/9/07
BY: JRC

NOT FOR CONSTRUCTION
FOR REGULATORY REVIEW ONLY

MELANY LARENAS, P.E. No. R62397
STATE OF FLORIDA
PERSONAL GEODESIC SURVEYING

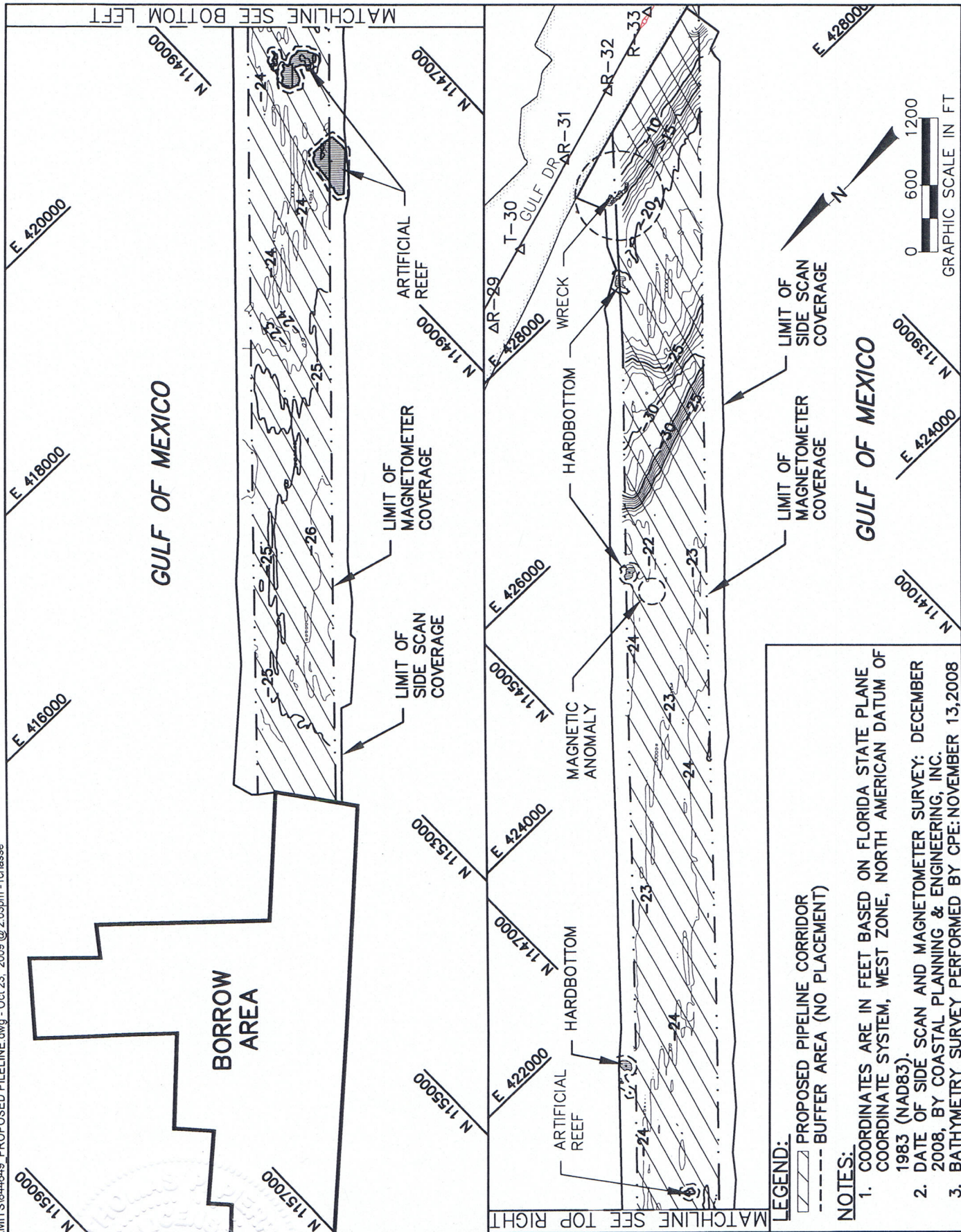
11/18/09
DATE

REVISIONS			
DATE	BY	DESCRIPTION	
1/4/09	JRC	RAI #1	

COMM NO.: 8446.49
SHEET: 16

PERMIT # 281452001

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LEGEND:
 - - - PROPOSED PIPELINE CORRIDOR
 - - - BUFFER AREA (NO PLACEMENT)

NOTES:
 1. COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
 2. DATE OF SIDE SCAN AND MAGNETOMETER SURVEY: DECEMBER 2008, BY COASTAL PLANNING & ENGINEERING, INC.
 3. BATHYMETRY SURVEY PERFORMED BY CPE: NOVEMBER 13, 2008

**ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
 PIPELINE CORRIDOR DETAIL**

NOT FOR CONSTRUCTION
 FOR REGULATORY REVIEW ONLY

Signature of Thomas P. Pierro

THOMAS P PIERRO P.E. NO. 64683

11/20/09
 DATE

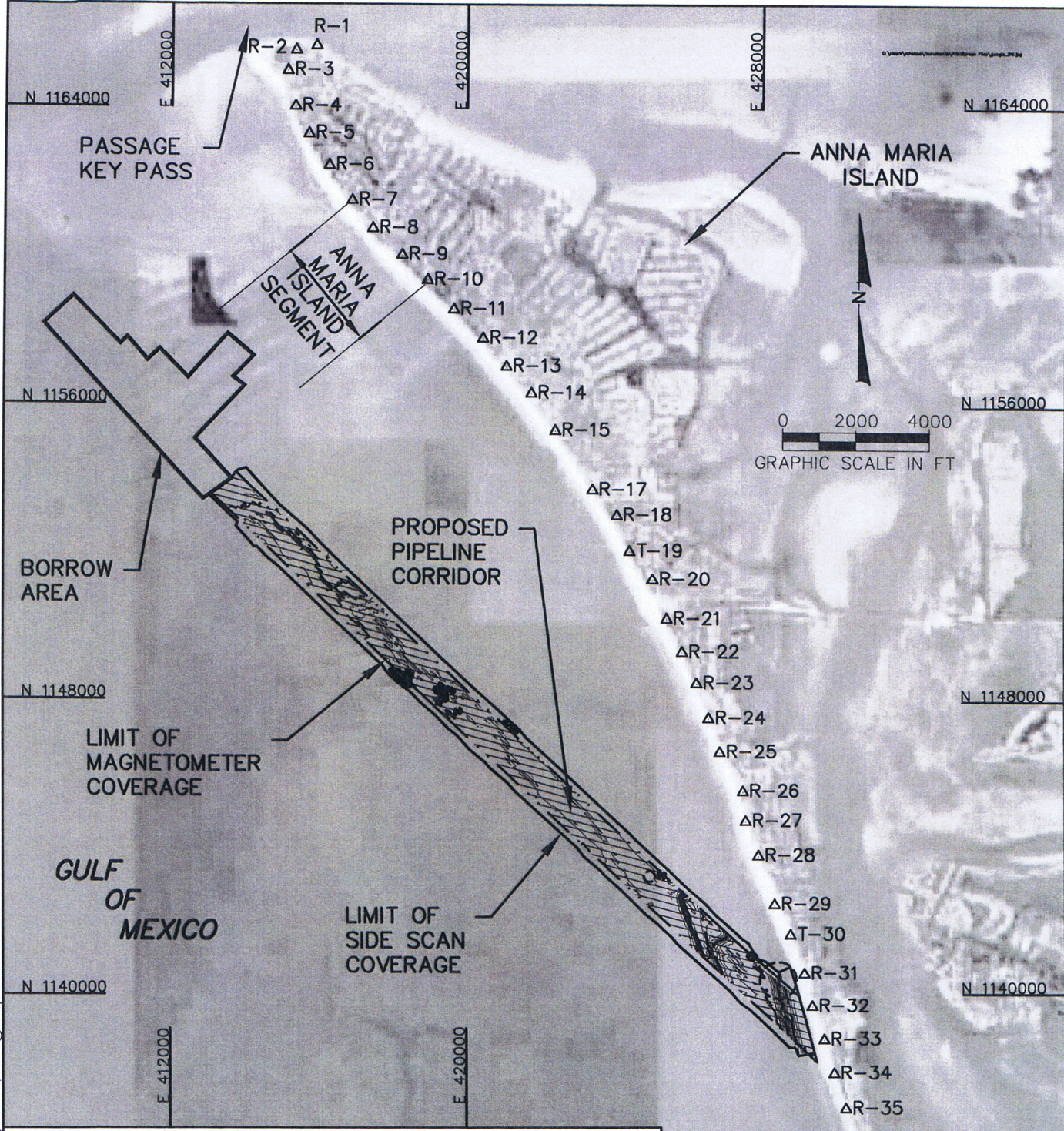
REVISIONS		
DATE	BY	DESCRIPTION

DATE: 2/4/09
 BY: JRC
 COMM NO.: 8446.49
 SHEET: 17

CPE
 COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 391-8102
 FAX: (561) 391-8116
 C.O.A. FL. #4028
 C.O.A. LA. #2531
 www.CoastalPlanning.net

PERMIT # 281452001

**ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
PIPELINE CORRIDOR PLAN VIEW**



LEGEND:
 PROPOSED PIPELINE CORRIDOR

NOTES:

- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- DATE OF SIDE SCAN AND MAGNETOMETER SURVEY: DECEMBER 2008, BY COASTAL PLANNING & ENGINEERING, INC.
- AERIAL DOWNLOADED FROM GOOGLE EARTH.

NOT FOR CONSTRUCTION
 FOR REGULATORY REVIEW ONLY

Thomas P. Pierro

THOMAS P PIERRO P.E. NO. 64683

11/20/09
 DATE

REVISIONS		
DATE	BY	DESCRIPTION

COASTAL PLANNING & ENGINEERING, INC.
 PH: (881) 381-4102
 FAX: (881) 381-9116
 C.O.A. FL 44028
 C.O.A. LA 82831
 www.CoastalPlanning.net

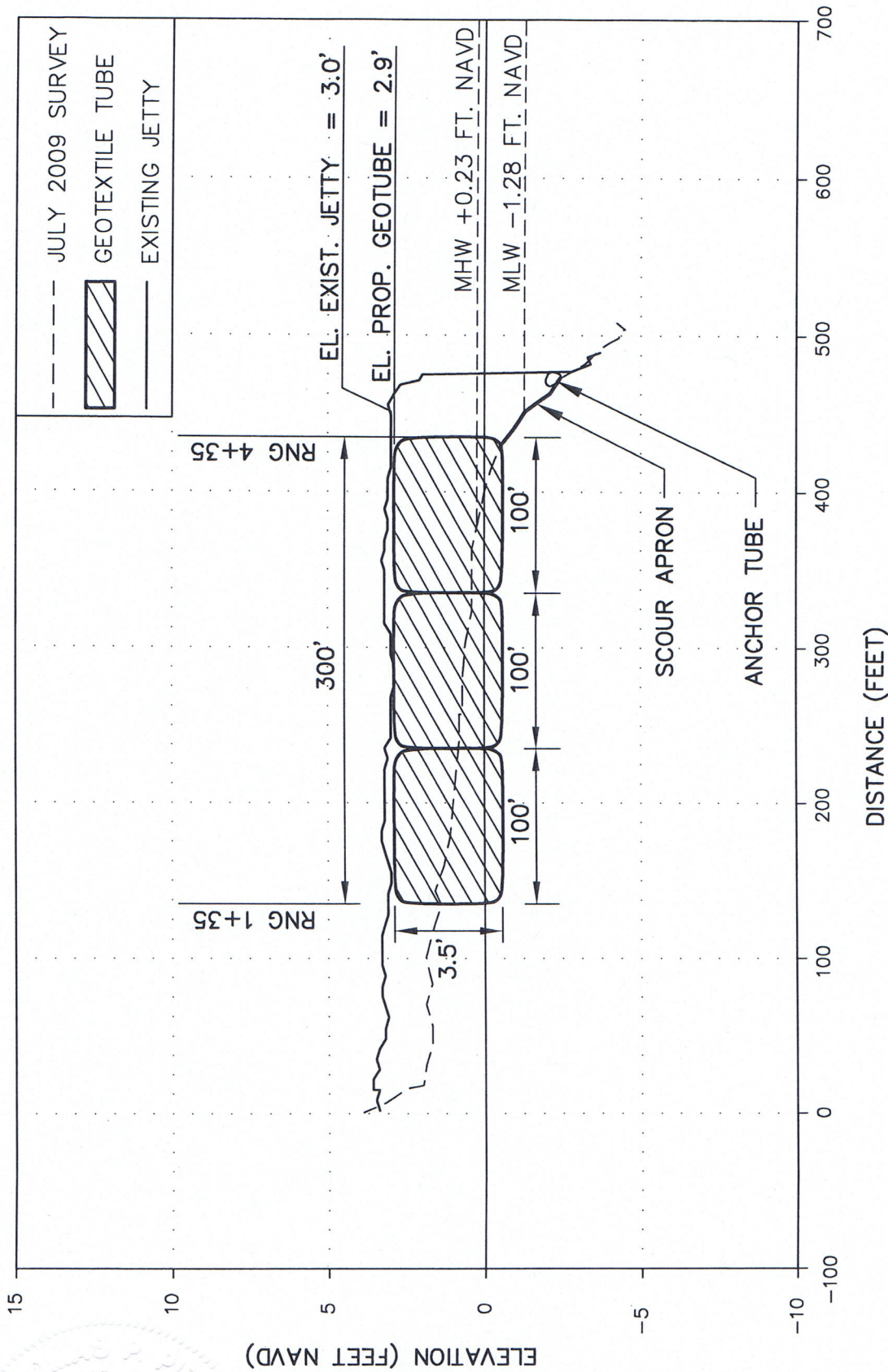


DATE:
 2/4/09
 BY:
 JRC
 COMM NO.:
 8446.49
 SHEET:
 18

PERMIT # 281452001

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ANNA MARIA ISLAND BEACH NOURISHMENT PROJECT
COQUINA BEACH SEGMENT
GEOTEXTILE TUBE CROSS SECTION

COASTAL PLANNING & ENGINEERING, INC.
 2481 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 391-8102
 FAX: (561) 391-9116
 C.O.A. FL. #4028
 C.C.A. LA. #2531
 www.CoastalPlanning.net



DATE: 5/1/09

BY: AMB
COMM NO.: 8446.49
SHEET: 19

NOT FOR CONSTRUCTION
 FOR REGULATORY REVIEW ONLY

Thomas P. Pierro
 THOMAS P PIERRO P.E. NO. 64683

11/20/09
 DATE

REVISIONS			
DATE	BY	DESCRIPTION	
9/28/09	TP	PER	RAI #3

PERMIT # 281 452 001



Florida Department of Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

In the matter of a
Petition for Variance by:

GRANTEE:

Manatee County
415 10th Street West
Bradenton, FL 34205

c/o

Rick Spadoni
Coastal Planning and Engineering, Inc.
2481 Boca Raton Blvd.
Boca Raton, FL 33431

PROJECT INFORMATION:

Variance No. 0281452-002-BV

Date of Issue: July 23, 2010

Expiration Date: Same as expiration date of Permit
No. 0281452-001-JC

County: Manatee

Project: City of Anna Maria and Coquina Beach
Nourishment

FINAL ORDER BY THE DEPARTMENT:

On February 11, 2009, the Department received from Manatee County a Petition for Variance, pursuant to Section 403.201(1), Florida Statutes (F.S.), and Section 62-110.104, Florida Administrative Code (F.A.C.). The Petitioner requested relief from Rule 62-4.244(5)(c), F.A.C., to establish a temporary mixing zone greater than 150 meters within an area of Class III Waters of the Gulf of Mexico. The grantee shall not exceed the water quality standard of 29 Nephelometric Turbidity Units (NTUs) above background at the edge of the expanded mixing zone, which measures 300 meters offshore and 1000 meters down-current from the point of discharge into the Gulf of Mexico at the beach placement site. This temporary variance shall only be valid during the construction activities authorized in Permit No. 0281452-001-JC and shall expire when the permit expires on July 23, 2015, unless the permit is modified to grant a time extension.

The associated joint coastal permit (Permit No. 0281452-001-JC) is to nourish 3,000 feet of shoreline in the City of Anna Maria, and restore 5,075 feet of shoreline at the Coquina Beach segment, both located on Anna Maria Island. Approximately 194,000 cubic yards of beach quality sand will be utilized to construct the two segments. There will be a 600-foot gap in the Coquina Beach segment, where fill will only be mechanically placed above the Mean High Water Line. The berm elevation for the project will be +4.0 feet NAVD, with a beach slope of 1:15 (vertical:horizontal) from the seaward edge of the berm to the slope intercept with the seabed. The construction berm crest will include the 75-foot design berm width, plus an average of 70 additional feet of berm width for advanced nourishment. A geotube assemblage comprised

of three sand-filled geotextile containers/tubes will be installed north of Longboat Pass (immediately north of the existing terminal groin/jetty) to limit sand from the Coquina Beach segment from passing through the existing jetty into Longboat Pass. The tube will be 100 feet in length with a crest elevation of +2.9 feet NAVD. The borrow area (for both segments of the project) will be the 2008 Anna Maria Island Borrow Area, located on the Passage Key Inlet ebb tidal shoal.

After reviewing the Petition for Variance, the Department staff concluded that it satisfied the requirements and criteria set forth in Section 403.201, F.S., and Rule 62-110, F.A.C.

The *Consolidated Notice of Intent to Issue Joint Coastal Permit, Variance and Authorization to Use Sovereign Submerged Lands* notified the Petitioner of the Department's proposed agency action and advised it of its right to a hearing pursuant to Sections 120.569 and 120.57, F.S. On **July 2, 2010**, notice was given in the *Bradenton Herald* newspaper and on July 2, 2010, notice was given in the Florida Administrative Weekly informing the public of the Department's intended action and offering an opportunity for hearing pursuant to Sections 120.569 and 120.57, F.S. A copy of the notice is attached as Exhibit A.

The Petitioner and interested parties having been advised of their rights under Chapter 120, F.S., and having failed or declined to file a Petition pursuant to Sections 120.569 and 120.57, F.S., are hereby deemed to have waived those rights. Acceptance of the variance constitutes notice and agreement that the Department will periodically review this variance for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof. It is therefore:

ORDERED by the State of Florida, Department of Environmental Protection, that the Petition of **Manatee County** requesting a variance be and is hereby granted, subject to the conditions specified by the Department in Permit No. 0281452-001-JC.

The variance shall be subject to the following condition:

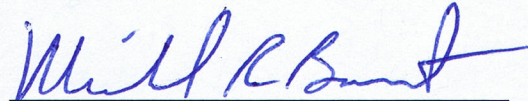
1. Best management practices and technology shall be employed to minimize turbidity within areas where nearshore hardbottom is present.

Any Party to this Order has the right to seek judicial review of the Order Pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of the Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Order is filed with the clerk of the Department.

Final Order for Variance
Variance No. 0281452-002-BV
Permit No. 0281452-001-JC
Page 3 of 4

DONE AND ORDERED this 23rd day of July, 2010, in
Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Michael R. Barnett, P.E., Chief
Bureau of Beaches and Coastal Systems

Attachment: Exhibit A (Variance Notices)

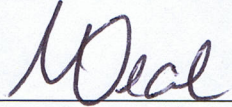
Copies furnished to:

Charlie Hunsicker, Manatee County
Tom Pierro, CPE
Melany Larenas, CPE
Lauren Floyd, CPE
Jessica Craft, CPE
Bill Vorstadt, DEP, Southwest District
Robbin Trindell, FWC, ISMS
Eric Seckinger, FWC, ISMS
Robert Brantly, DEP BBCS
Subarna Malakar, DEP BBCS
El Kromhout, DEP BBCS
Marty Seeling, DEP BBCS
Vladimir Kosmynin, DEP BBCS
Paden Woodruff, DEP BBCS
Alex Reed, DEP BBCS
Vincent George, DEP BBCS
Roxanne Dow, DEP BBCS
Nancy Douglass, FWCC
Suzi Fox, MTP
Mike Nowicki, U. S. Army Corps of Engineers
Cynthia Wood, U. S. Army Corps of Engineer
JCP Compliance Officer
Steve West, BBCS Field Engineer
BBCS Permit File

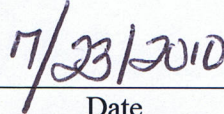
Final Order for Variance
Variance No. 0281452-002-BV
Permit No. 0281452-001-JC
Page 4 of 4

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated
Department Clerk, receipt of which is hereby acknowledged.



Deputy Clerk



Date

Prepared by: Lainie Edwards, Ph.D.