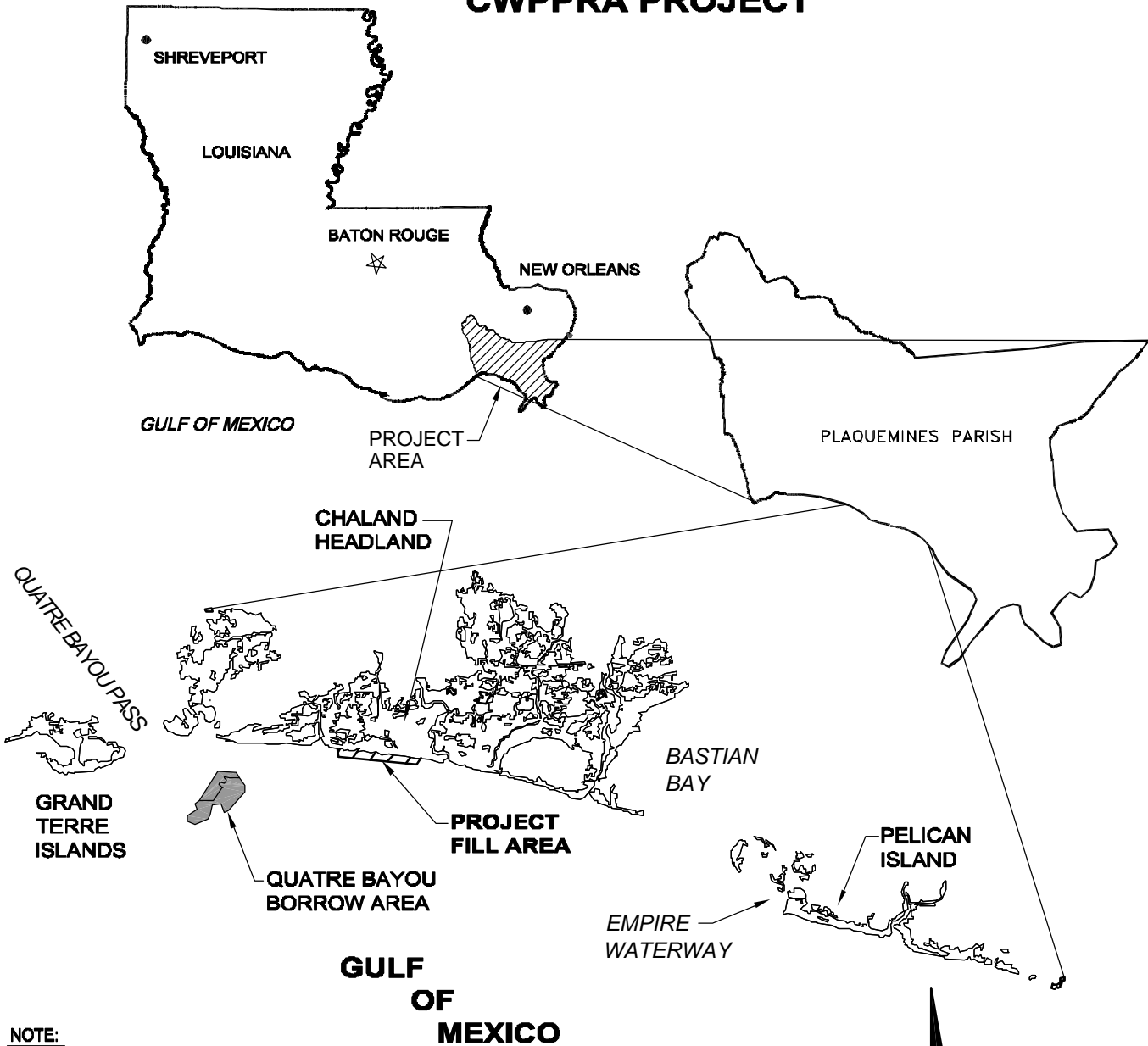


CHALAND HEADLAND RESTORATION (BA-38-2) CWPPRA PROJECT

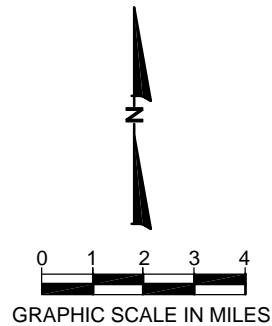


NOTE:

SOURCE OF MAP: LOUISIANA GIS CD;
A DIGITAL MAP OF THE STATE, 2 CD SET.

SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2-3	PROJECT PLAN VIEW
4	QUATRE BAYOU BORROW AREA BATHYMETRY
5-6	QUATRE BAYOU BORROW AREA CROSS SECTIONS
7-9	FILL CROSS SECTIONS
10	BARGE ACCESS CANAL CROSS SECTION A-A' (TYP.)
11	TYPICAL CANAL CLOSURE PROFILE B-B' (TYP.)
12	TYPICAL CANAL CLOSURE CROSS SECTION C-C' (TYP.)
13	BREACH CLOSURE CROSS SECTION D-D'
14	BREACH CLOSURE PROFILE E-E'



**CHALAND HEADLAND RESTORATION
(BA-38-2) CWPPRA PROJECT
LOCATION MAP**

TITLE:

2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

COASTAL PLANNING & ENGINEERING, INC.
www.CoastalPlanning.net

DATE:

11/17/03

BY:

JRC

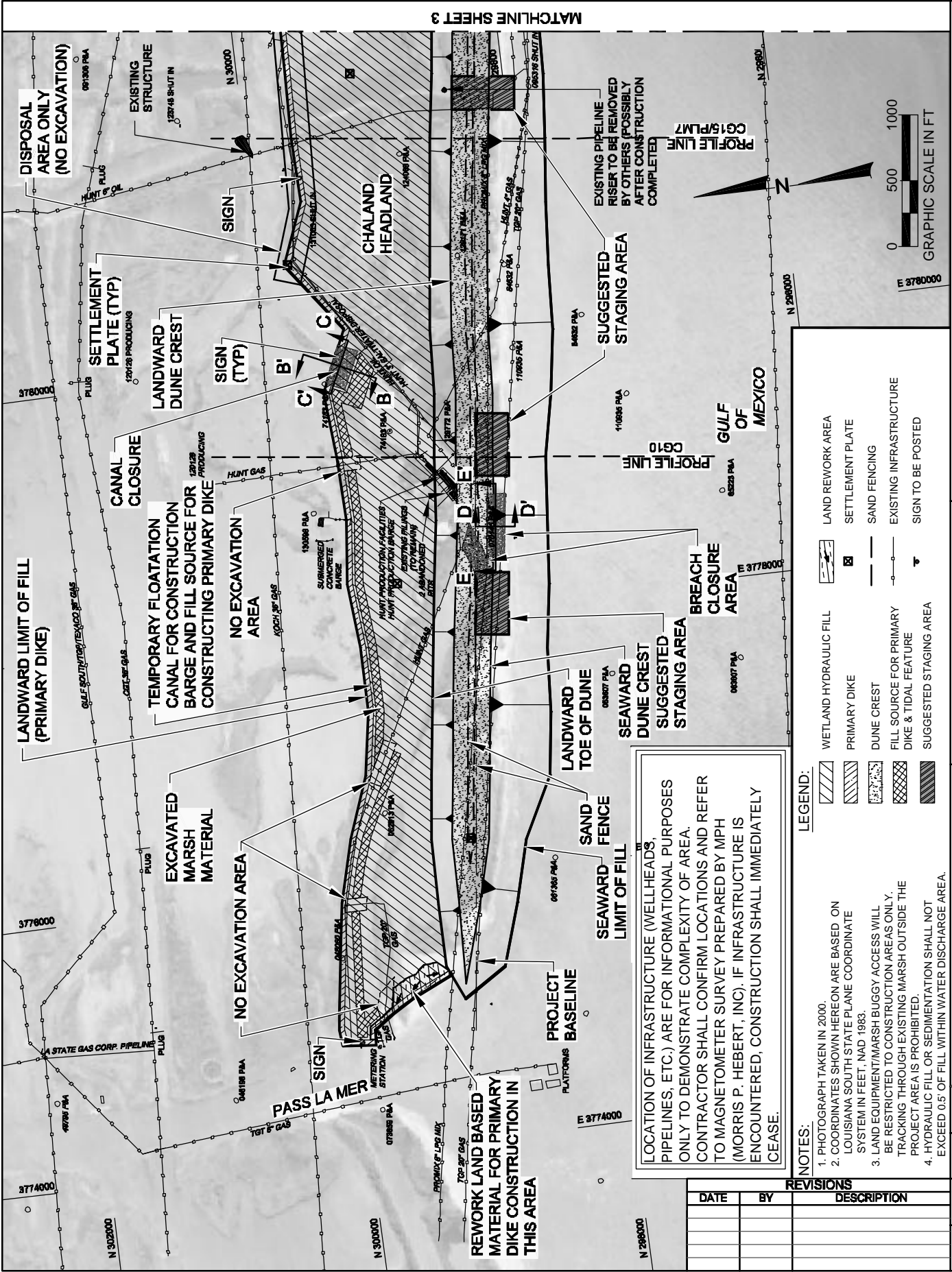
COMM NO.:

7261.07

SHEET:

1

REVISIONS		
DATE	BY	DESCRIPTION



MATCHLINE SHEET 3

LOCATION OF INFRASTRUCTURE (WELLHEADS, PIPELINES, ETC.) ARE FOR INFORMATIONAL PURPOSES ONLY TO DEMONSTRATE COMPLEXITY OF AREA. CONTRACTOR SHALL CONFIRM LOCATIONS AND REFER TO MAGNETOMETER SURVEY PREPARED BY MPH (MORRIS P. HEBERT, INC.) IF INFRASTRUCTURE IS ENCOUNTERED, CONSTRUCTION SHALL IMMEDIATELY CEASE.

NOTES:
 1. PHOTOGRAPH TAKEN IN 2000.
 2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 3. LAND EQUIPMENT/MARSH BUGGY ACCESS WILL BE RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.
 4. HYDRAULIC FILL OR SEDIMENTATION SHALL NOT EXCEED 0.5' OF FILL WITHIN WATER DISCHARGE AREA.

REVISIONS		
DATE	BY	DESCRIPTION

LEGEND:

	WETLAND HYDRAULIC FILL		LAND REWORK AREA
	PRIMARY DIKE		SETTLEMENT PLATE
	DUNE CREST		SAND FENCING
	FILL SOURCE FOR PRIMARY DIKE & TIDAL FEATURE		EXISTING INFRASTRUCTURE
	SUGGESTED STAGING AREA		SIGN TO BE POSTED

CHALAND HEADLAND RESTORATION (BA-38-2) CWP/PRA PROJECT PLAN VIEW

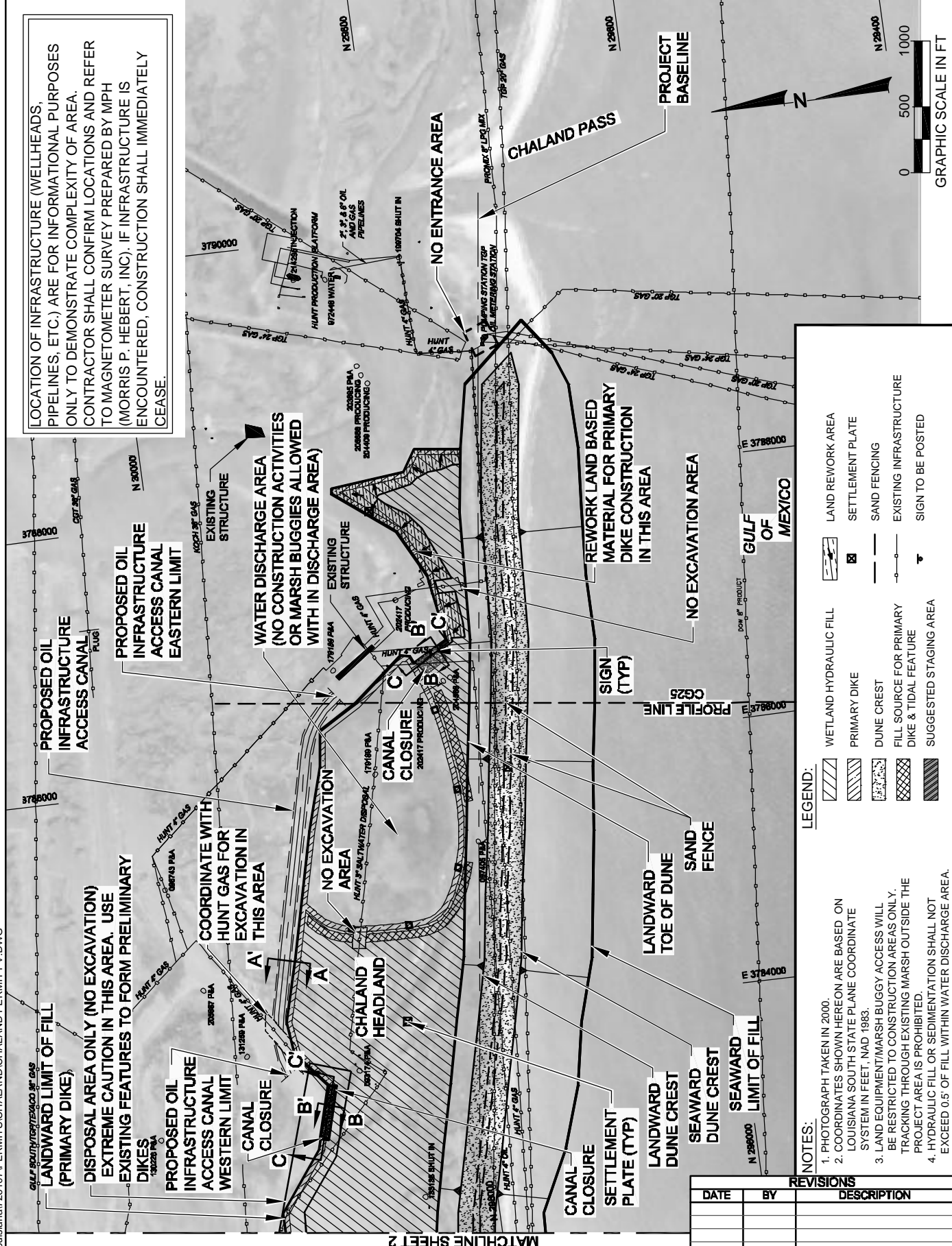
TITLE

2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116

COASTAL PLANNING & ENGINEERING, INC.
www.CoastalPlanning.net

DATE: 11/17/03
BY: JRC
COMM NO.: 7261.07
SHEET: 2

LOCATION OF INFRASTRUCTURE (WELLHEADS, PIPELINES, ETC.) ARE FOR INFORMATIONAL PURPOSES ONLY TO DEMONSTRATE COMPLEXITY OF AREA. CONTRACTOR SHALL CONFIRM LOCATIONS AND REFER TO MAGNETOMETER SURVEY PREPARED BY MPH (MORRIS P. HEBERT, INC). IF INFRASTRUCTURE IS ENCOUNTERED, CONSTRUCTION SHALL IMMEDIATELY CEASE.



LEGEND:

- WETLAND HYDRAULIC FILL
- PRIMARY DIKE
- DUNE CREST
- FILL SOURCE FOR PRIMARY DIKE & TIDAL FEATURE
- SUGGESTED STAGING AREA
- LAND REWORK AREA
- SETTLEMENT PLATE
- SAND FENCING
- EXISTING INFRASTRUCTURE
- SIGN TO BE POSTED

NOTES:

- PHOTOGRAPH TAKEN IN 2000.
- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- LAND EQUIPMENT/MARSH BUGGY ACCESS WILL BE RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.
- HYDRAULIC FILL OR SEDIMENTATION SHALL NOT EXCEED 0.5' OF FILL WITHIN WATER DISCHARGE AREA.

REVISIONS		
DATE	BY	DESCRIPTION

CHALAND HEADLAND RESTORATION (BA-38-2) CWP/PRA PROJECT PLAN VIEW

TITLE

2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116

COASTAL PLANNING & ENGINEERING, INC.

DATE: 11/17/03

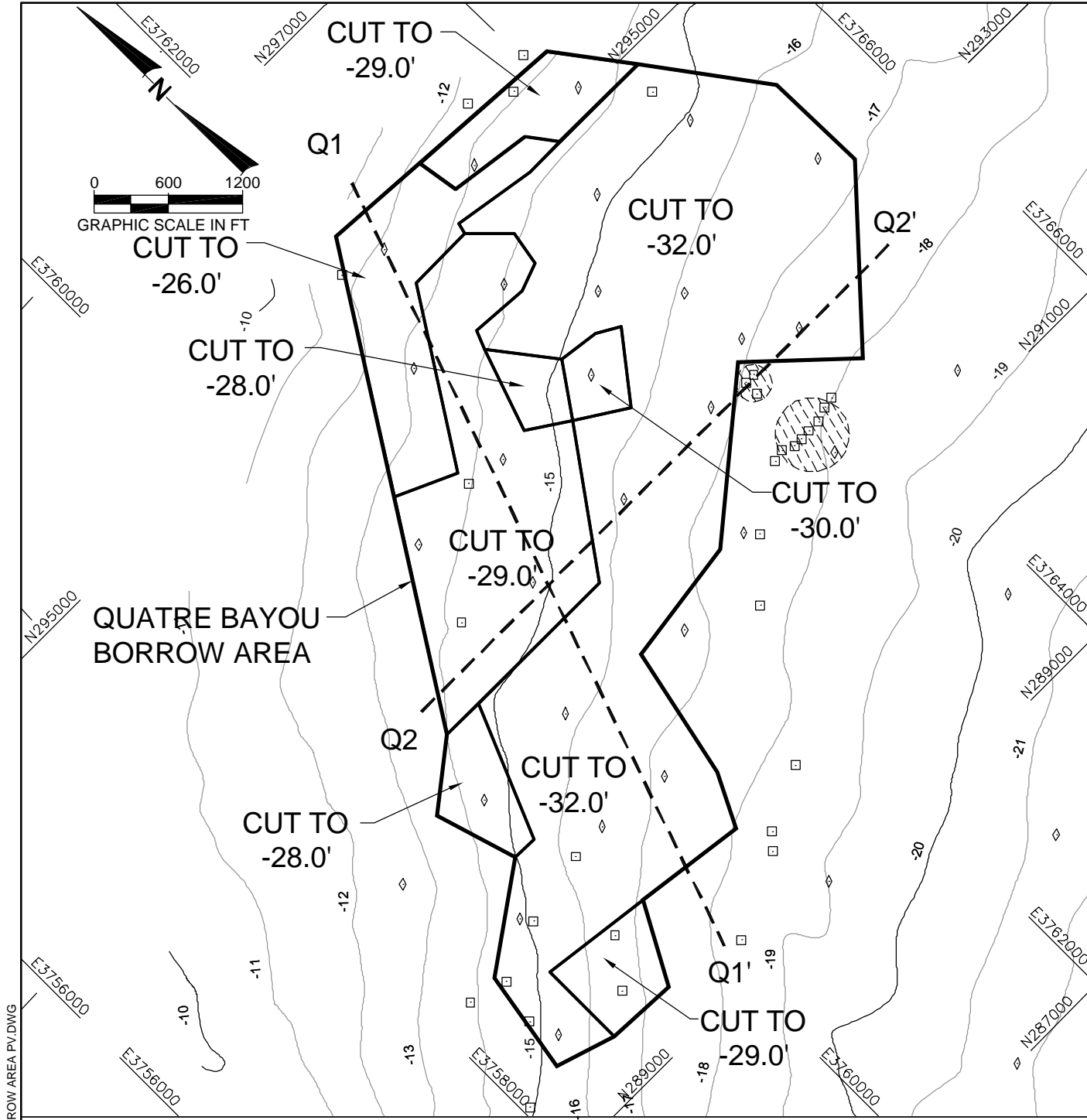
BY: JRC

COMM NO.: 7261.07

SHEET: 3

GRAPHIC SCALE IN FT

0 500 1000



QUATRE BAYOU
BORROW AREA

**CHALAND HEADLAND RESTORATION
(BA-38-2) CWPRA PROJECT
QUATRE BAYOU BORROW AREA BATHYMETRY**

TITLE:

2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-8116

COASTAL PLANNING & ENGINEERING, INC.
www.CoastalPlanning.net

DATE:
11/17/03

BY:
JRC

COMM NO.:
7261.07

SHEET:
4

NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 - ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
- CONTOURS SHOWN HEREON ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE ON 8/6/02 - 8/15/02.

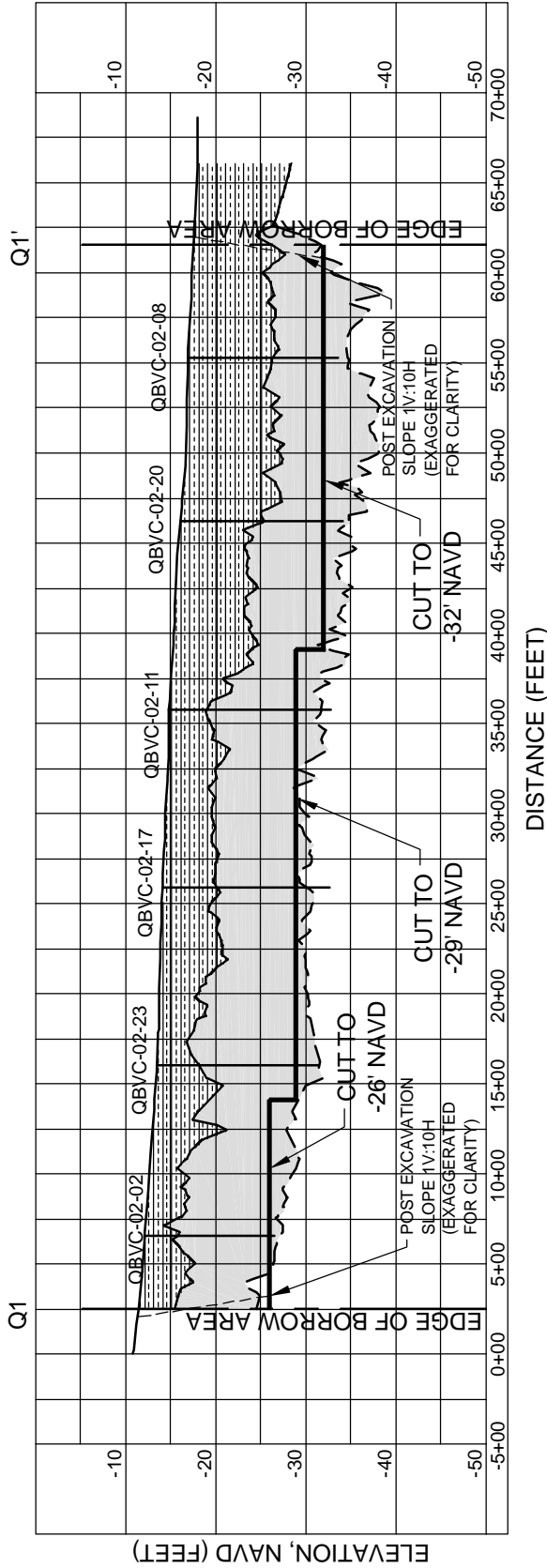
LEGEND:

- ◊ DENOTES CPE 2002 VIBRACORE LOCATION
- DENOTES 2002 MAGNETOMETER HIT
- DENOTES BSS CORE LOCATIONS (FROM USGS FILE REPORT NO. 01-384, DATED SEPTEMBER 2001, APPENDIX B CD ROM)
- ⊙ DENOTES MAGNETIC ANOMALY WITH BUFFER

REVISIONS		
DATE	BY	DESCRIPTION

H:\Louisiana\726107\PERMITS\CHALAND\BORROW AREA P.V.DWG

QUATRE BAYOU BORROW AREA CROSS SECTION Q1-1'



LEGEND:

QBVC-02-17 DENOTES CPE 2002 VIBRACORE LOCATION

BEACH COMPATIBLE SEDIMENTS

SURFACE SILT/CLAY LAYER (TO BE USED FOR MARSH CONSTRUCTION)

INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT

NOTES:

1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 4 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 88.

SCALE: 1"= 1000' HORIZONTAL
1"=20' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION

DATE:	10/8/03
BY:	JRC
COMM NO.:	7261.07
SHEET:	5

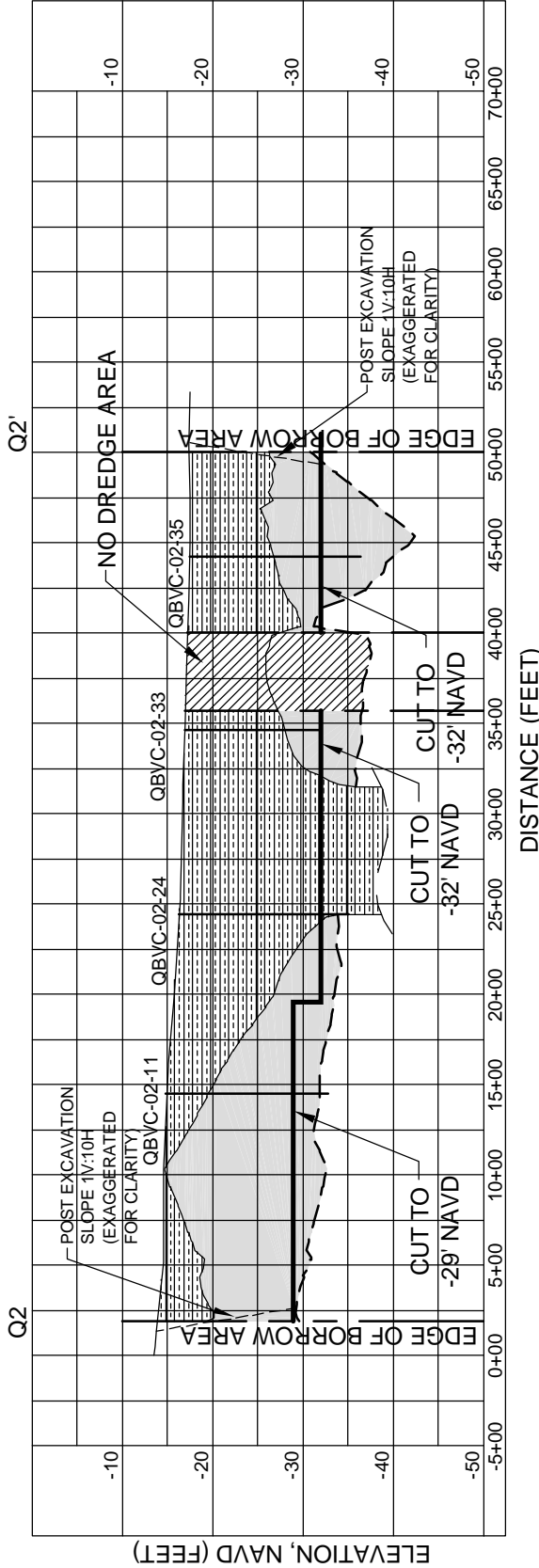


2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

**CHALAND HEADLAND RESTORATION
QUATRE BAYOU BORROW AREA
Q1-Q1' CROSS SECTION**

TITLE:

QUATRE BAYOU BORROW AREA CROSS SECTION Q2-2'



LEGEND:

- QBVC-02-17** DENOTES CPE 2002 VIBRACORE LOCATION
- BEACH COMPATIBLE SEDIMENTS
- SURFACE SILT/CLAY LAYER (TO BE USED FOR MARSH CONSTRUCTION)
- NO DREDGE AREA - MAGNETIC ANOMALIES
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT

NOTES:

1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 4 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 88.

SCALE: 1"= 1000' HORIZONTAL
1"=20' VERTICAL

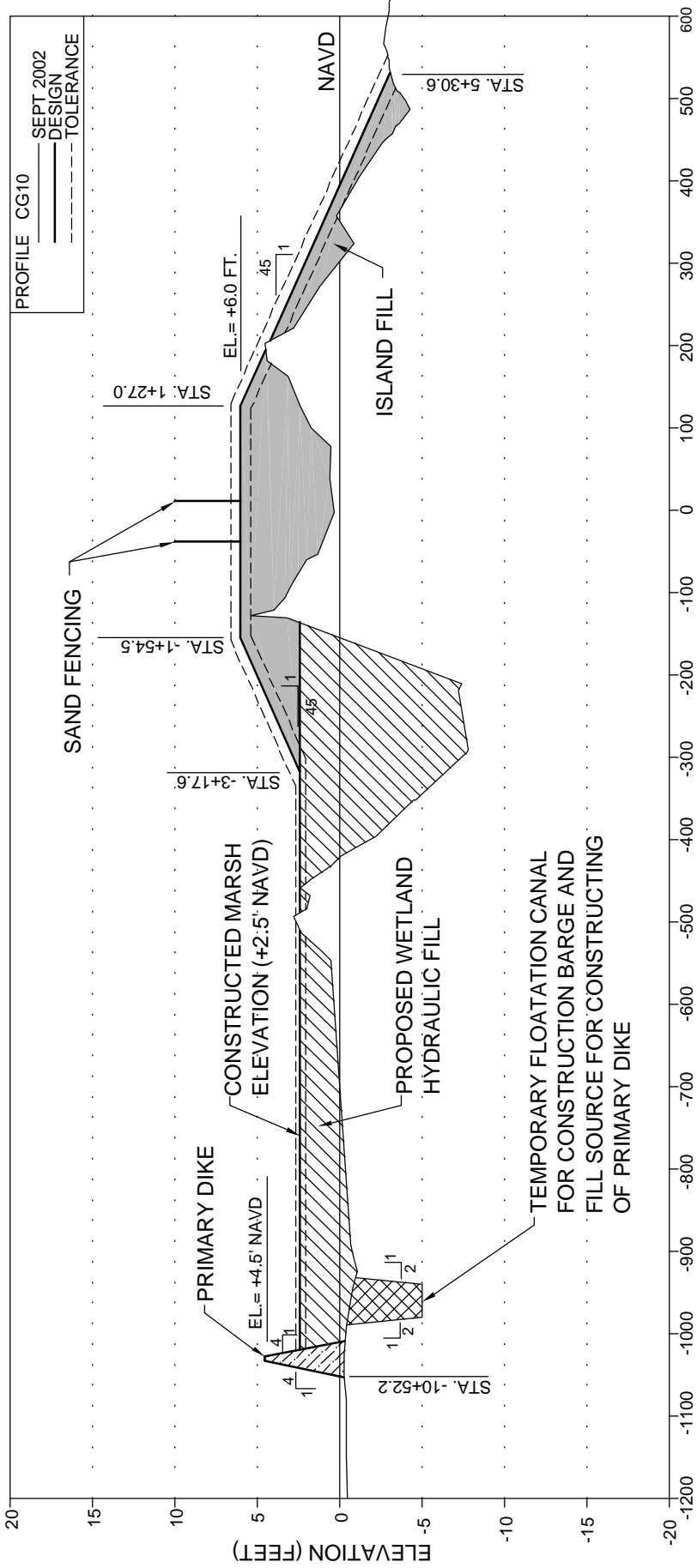
REVISIONS		
DATE	BY	DESCRIPTION

DATE:	11/17/03
BY:	JRC
COMM NO.:	7281.07
SHEET:	6

COASTAL PLANNING & ENGINEERING, INC.
www.CoastalPlanning.net


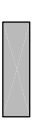


2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

**CHALAND HEADLAND RESTORATION
QUATRE BAYOU BORROW AREA
Q2-Q2' CROSS SECTION**



DISTANCE (FEET)

LEGEND:

-  DENOTES WETLAND HYDRAULIC FILL
-  DENOTES ISLAND FILL
-  DENOTES PRIMARY DIKE
-  DENOTES EXCAVATED MARSH MATERIAL TO BE USED FOR PRIMARY DIKE

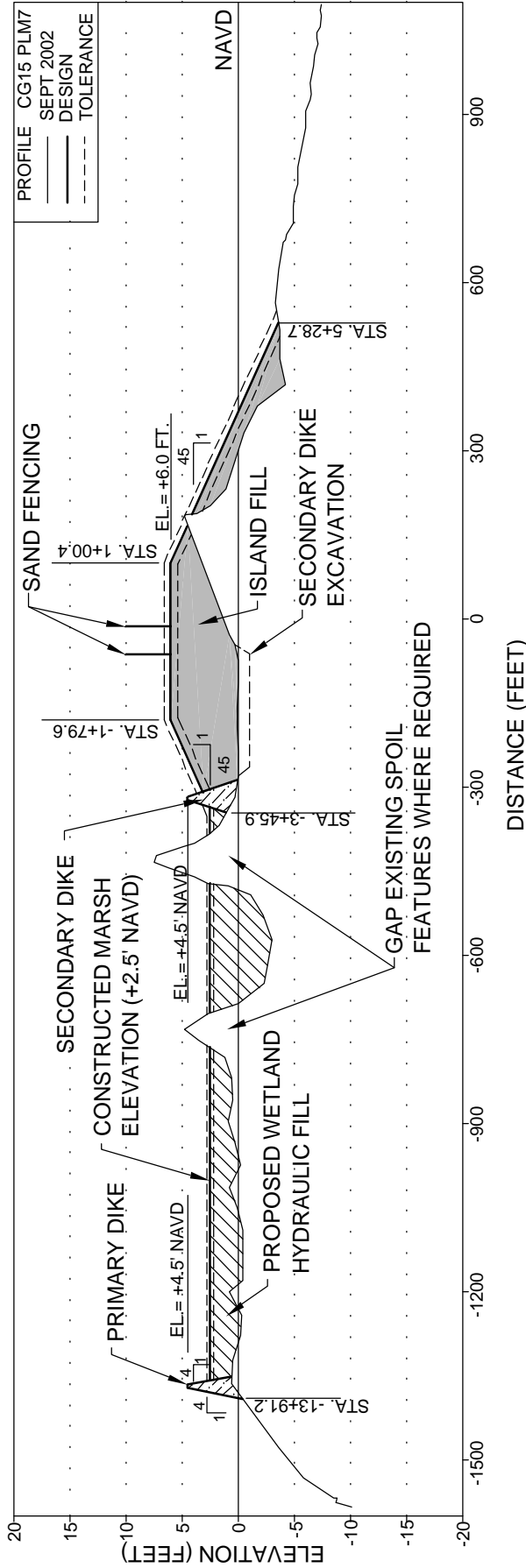
NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.

SCALE: 1"= 200' HORIZONTAL
1"=10' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION

DATE: 11/17/03	BY: TW	COMM NO.: 7261.07
DATE: 11/17/03		SHEET: 7
 <p>COASTAL PLANNING & ENGINEERING, INC. www.CoastalPlanning.net</p>		
<p>2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116</p>		
<p>CHALAND HEADLAND RESTORATION (BA-38-2) CWPPRA PROJECT FILL CROSS SECTION CG10</p>		



PROFILE CG15 PLM7
 SEPT 2002
 DESIGN
 TOLERANCE

LEGEND:
 DENOTES WETLAND HYDRAULIC FILL
 DENOTES ISLAND FILL
 DENOTES PRIMARY DIKE

NOTE:
 1. ELEVATIONS SHOWN HEREON ARE IN FEET
 BASED ON NAVD 1988.

SCALE: 1" = 300' HORIZONTAL
 1" = 15' VERTICAL

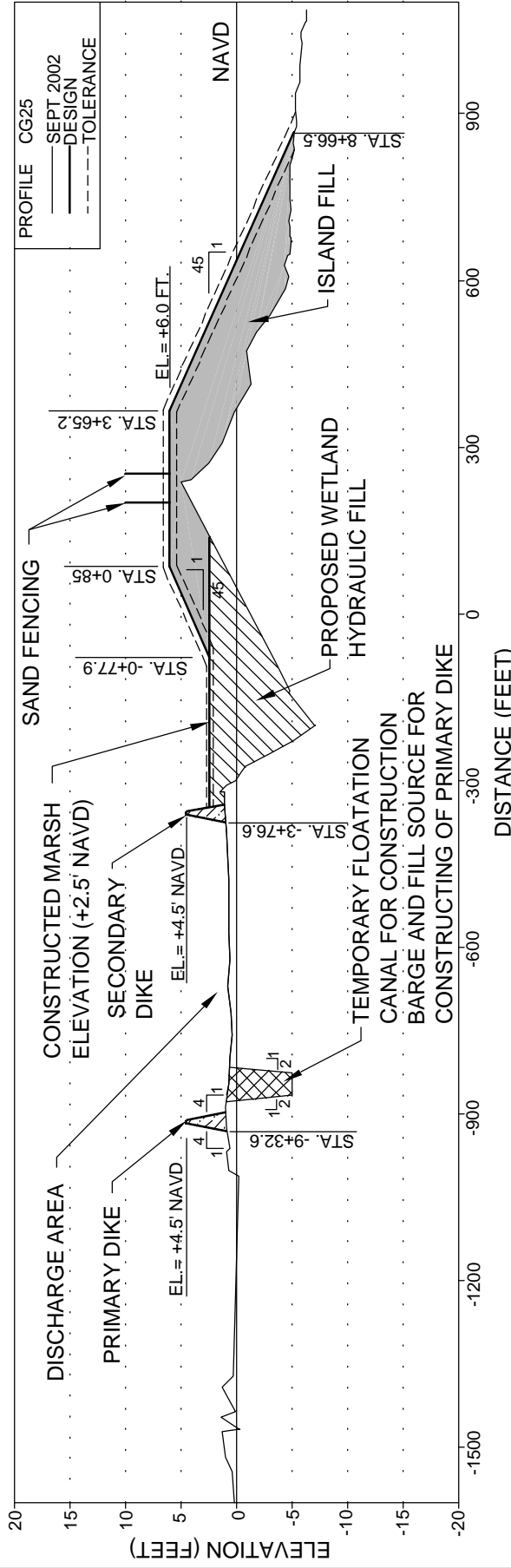
REVISIONS		
DATE	BY	DESCRIPTION

**CHALAND HEADLAND RESTORATION
 (BA-38-2) CWPRA PROJECT
 FILL CROSS SECTION CG15 PLM7**


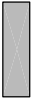


DATE: 10/17/03
BY: TW
COMM NO.: 7261.07
SHEET: 8

2481 N.W. BOCA RATON BLVD.
 BOCA RATON, FL 33431
 PH. (561) 391-8102 FAX (561) 391-9116

COASTAL PLANNING & ENGINEERING, INC.
 www.CoastalPlanning.net



LEGEND:

-  DENOTES WETLAND HYDRAULIC FILL
-  DENOTES ISLAND FILL
-  DENOTES PRIMARY DIKE
-  DENOTES EXCAVATED MARSH MATERIAL TO BE USED FOR PRIMARY DIKE

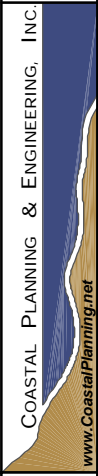
NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.

SCALE: 1" = 300' HORIZONTAL
1" = 15' VERTICAL

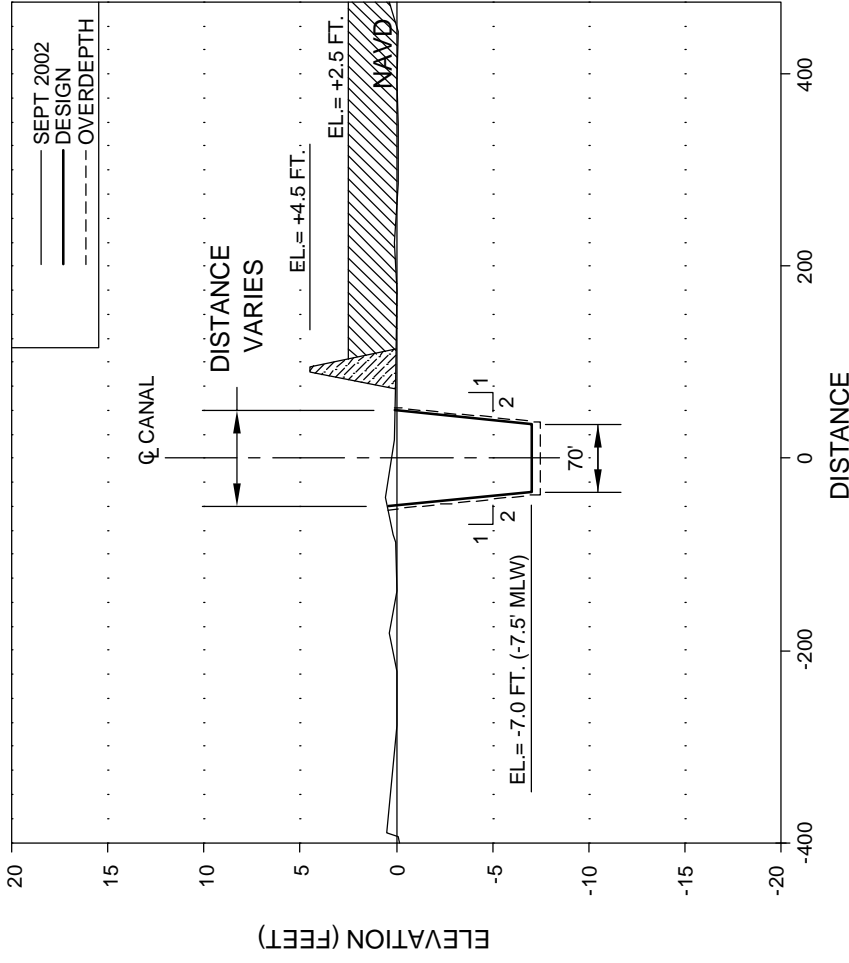
REVISIONS		
DATE	BY	DESCRIPTION

DATE:	10/17/03
BY:	TW
COMM NO.:	7261.07
SHEET:	9



2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-8116

**CHALAND HEADLAND RESTORATION
(BA-38-2) CWP/PRA PROJECT
FILL CROSS SECTION CG25**



ACCESS CANAL CROSS SECTION A-A' (TYPICAL)

NOTE:

- 1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
- 2. OVERDEPTH IS 0.5 FEET

LEGEND:

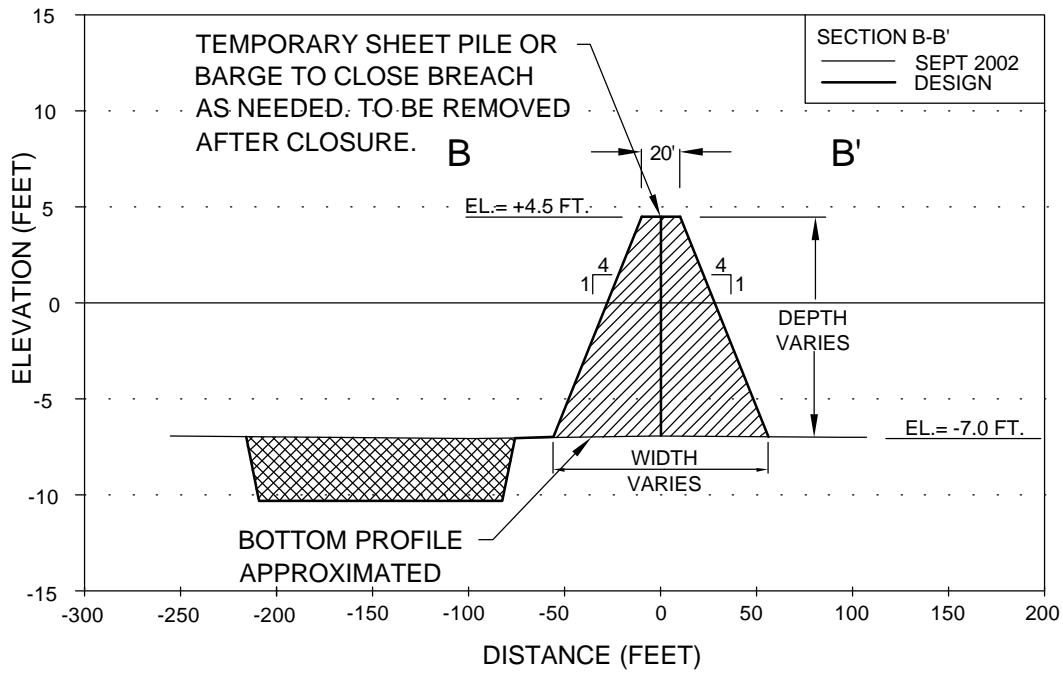
- DENOTES CONTAINMENT DIKE
- DENOTES WETLAND FILL

SCALE: 1"= 200' HORIZONTAL
1"=10' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION



 COASTAL PLANNING & ENGINEERING, INC. www.CoastalPlanning.net	2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116	TITLE: CHALAND HEADLAND RESTORATION (BA-38-2) CWPRA PROJECT OIL INFRASTRUCTURE BARGE ACCESS CANAL CROSS SECTION A-A' (TYP.)
DATE: 10/17/03	BY: TW	COMM NO.: 7261.07
SHEET: 10		(Empty)

H:\Louisiana\726107\PERMITS\CHALAND\CHALAND PERMIT CANAL ACCESS AND CLOSURE X-SECTIONS.dwg



CANAL CLOSURE CROSS SECTION B-B' (TYPICAL)

LEGEND:

-  FILL MATERIAL TO CLOSE CANAL
-  DENOTES EXCAVATED MARSH MATERIAL TO BE USED FOR CANAL CLOSURE

NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION

**CHALAND HEADLAND RESTORATION
(BA-38-2) CWPRA PROJECT
CLOSURE PROFILE B-B' (TYP.)**

TITLE:

2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

COASTAL PLANNING & ENGINEERING, INC.

www.CoastalPlanning.net

DATE:

11/17/03

BY:

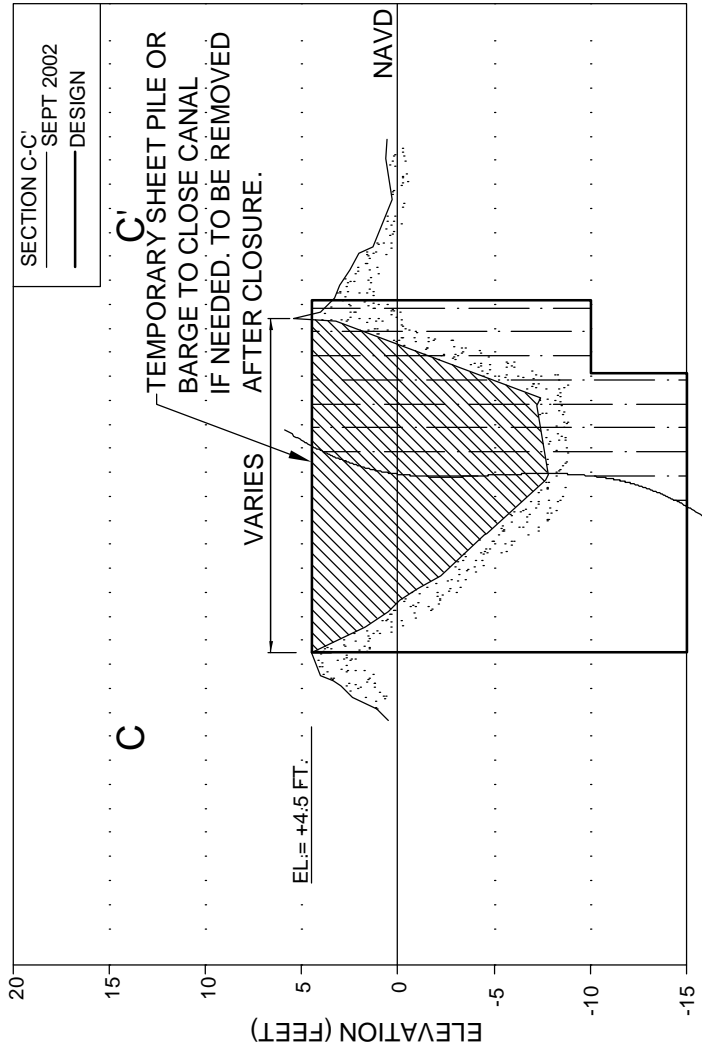
TW

COMM NO.:

7261.07

SHEET:

11



CANAL CLOSURE CROSS SECTION C-C' (TYPICAL)

NOTE:

- ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.

LEGEND:



FILL MATERIAL TO CLOSE CANAL

SCALE: 1" = 200' HORIZONTAL
1" = 10' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION

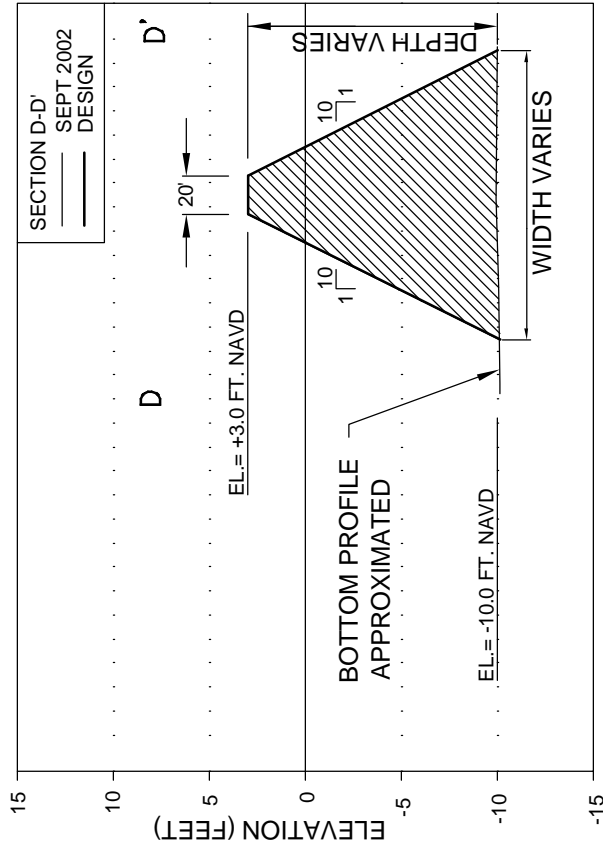
COMM NO.:	7261.07
SHEET:	12

COASTAL PLANNING & ENGINEERING, INC.
www.CoastalPlanning.net

DATE: 11/17/03
BY: TW

2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

TITLE: **CHALAND HEADLAND RESTORATION (BA-38-2) CWPRA PROJECT**
CANAL CLOSURE CROSS SECTION C-C' (TYP.)



BREACH CLOSURE CROSS SECTION D-D'

NOTES:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
2. DEPTH AND WIDTH OF BREACH VARIES.

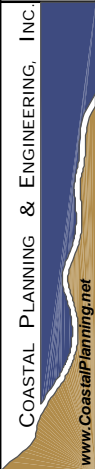
LEGEND:

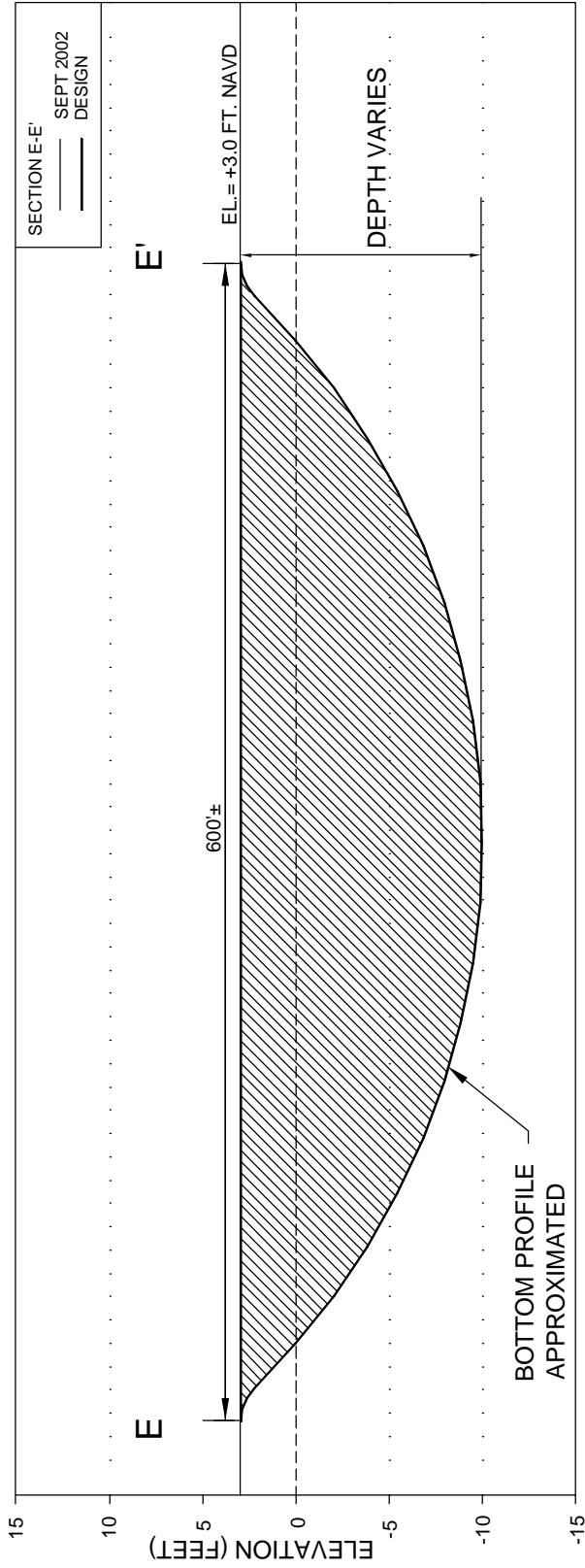
- FILL MATERIAL TO CLOSE BREACH

SCALE: 1"= 100' HORIZONTAL
1"=10' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION

DATE: 7/29/03	TITLE: CHALAND HEADLAND RESTORATION (BA-38-2) CWPRA PROJECT BREACH CLOSURE CROSS SECTION D-D'
BY: TW	2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116
COMM NO.:	7261.07
SHEET:	13





SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

BREACH CLOSURE PROFILE E-E'

LEGEND:

-  FILL MATERIAL TO CLOSE BREACH

NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD '1988.
2. DEPTH AND WIDTH OF BREACH VARIES.

REVISIONS		
DATE	BY	DESCRIPTION

 <p>COASTAL PLANNING & ENGINEERING, INC. www.CoastalPlanning.net</p>	<p>TITLE: CHALAND HEADLAND RESTORATION (BA-38-2) CWPRA PROJECT BREACH CLOSURE PROFILE E-E'</p>	<p>2481 N.W. BOCA RATON BLVD. BOCA RATON, FL 33431 PH. (561) 391-8102 FAX (561) 391-9116</p>
<p>DATE: 11/17/03</p>	<p>BY: TW</p>	<p>COMM NO.: 7261.07</p>
<p>SHEET: 14</p>		<p> </p>