



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P. O. BOX 80267
NEW ORLEANS, LOUISIANA 70180-0267

REPLY TO
ATTENTION OF:

APR 28 2011

Operation Division
Eastern Evaluation Section

SUBJECT: MVN-2010-2720-EFF
(Pelican Island BA-38 -Modification 1)

National Marine Fisheries Service
LSU, South Stadium Drive
Baton Rouge, Louisiana 70803
Attn: Mr. Rick Hartman

Revised drawings attached in twenty four sheets, furnished with your letter dated February 23, 2011, covering the inclusion of approximately 77 acres of additional marsh platform, retention dike modifications, additional borrow canal, decreased beach fill volume, modified beach and dune alignment, and tie-in at the Empire Waterway rock jetty; all for constructing the Pelican Island (BA-38) CWPPRA project, located east of the Empire Waterway on the Gulf of Mexico, near Empire, Louisiana, within Plaquemines Parish. These plats hereby supersede original drawings of your permit and are approved and will be included in your plans for the work authorized by the Secretary of the Army in the permit dated August 13, 2009, from the District Engineer at New Orleans, Louisiana.

The following special conditions are made supplemental to your authorization:

1. The applicant shall insure that the dredge contractor minimizes migration of dredge materials into the Empire Waterway, during construction of the project.
2. The applicant shall immediately contact and consult with the US Fish and Wildlife Service (USFWS) in the event that shorebird bird nesting is observed during construction activities.
3. Passive measures such as the placement of filter cloth or orange fencing material along the beaches shall be carried out, in order to attempt discouragement of shorebird nesting. If deemed unsuccessful, alternate measures such as dogs or continuous human presence should be attempted in order to deter nesting. More aggressive methods of hazing (i.e. cannons, flares) may also be applied, if found necessary.
4. Timing, persistence, organization, and diversity of abatement measures are crucial in deterring shorebirds from establishing active nesting colonies. Abatement measures shall be overseen and/or conducted by a certified wildlife biologist familiar with shorebird ecology and the proposed deterrence methods. Abatement techniques shall be coordinated with the USFWS and LA Department of Wildlife and Fisheries, prior to use.

5. To increase effectiveness of the nesting prevention program, it is recommended that a combination of abatement measures be employed. Additionally, the types of abatement measures as well as their special and temporal deployment should be varied frequently to reduce the chances of shorebirds becoming habituated to the deterrence methods.

6. Since this proposed activity occurs within an area impacted by the Deepwater Horizon Oil Spill, the permittee is required to contact the US Coast Guard, Unified Area Command Situation Cell (USCG) prior to commencement of work for the purpose of obtaining clearance to conduct any dredge and/or fill activities within affected areas as authorized by this permit action. Permittee should be prepared to provide location data and estimated duration of work activities when coordinating with the USCG. Telephone inquiries can be directed to 504-335-0957.

All other conditions to which the work is made subject remain in full force and effect.

A copy of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

The New Orleans District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete and return the attached Customer Service Survey or go to the survey found on our web site at <http://per2.nwp.usace.army.mil/survey.html>.

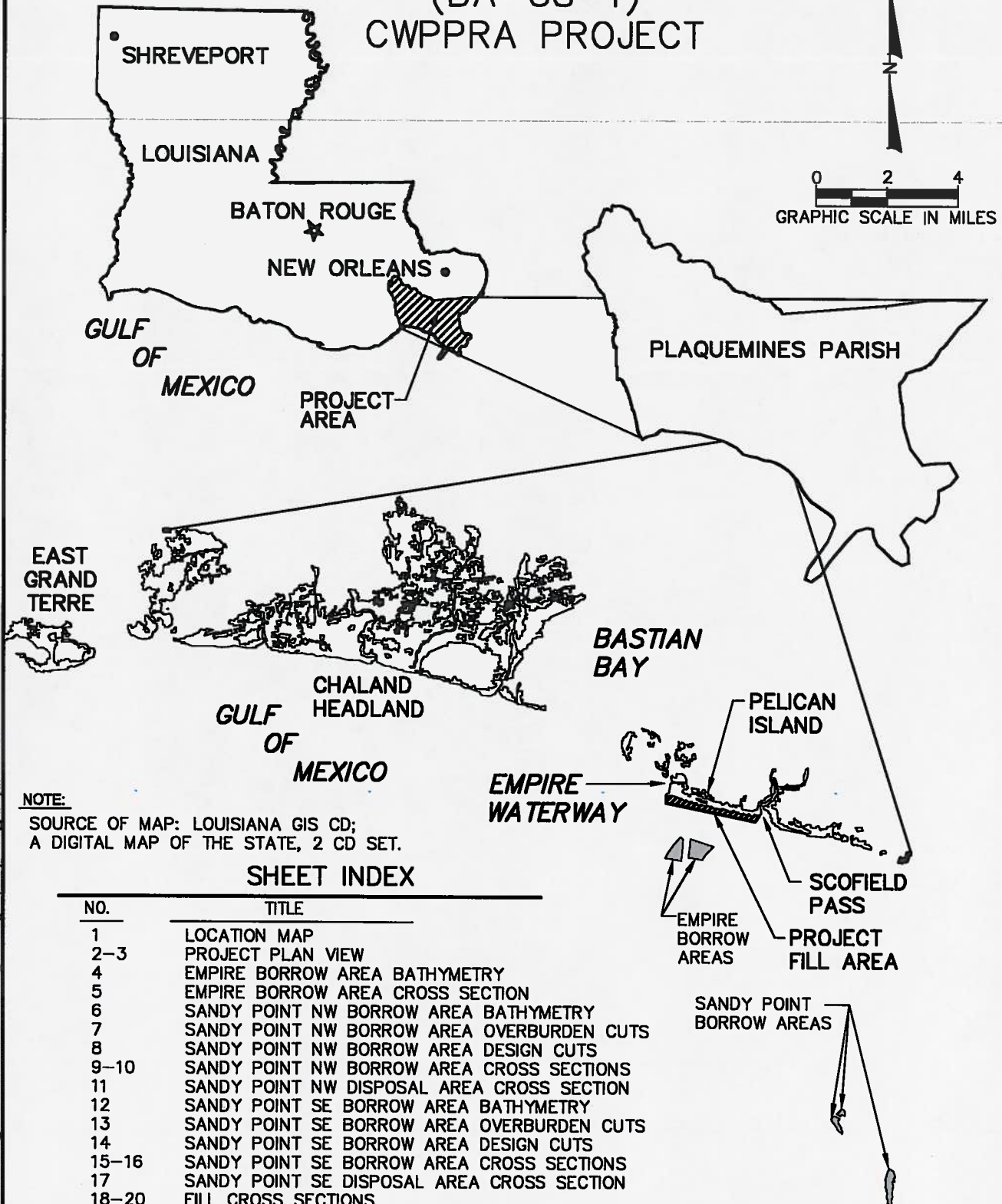
BY AUTHORITY OF THE SECRETARY OF THE ARMY:



Pete Serio
Chief, Regulatory Branch
for
Edward R. Fleming
Colonel, U.S. Army
District Commander

Enclosure

PELICAN ISLAND RESTORATION (BA-38-1) CWPPRA PROJECT



PELICAN ISLAND RESTORATION
(BA-38-1) CWPPRA PROJECT
LOCATION MAP

COASTAL PLANNING & ENGINEERING, INC.
3401 NW BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
PH: (561) 394-9122
FAX: (561) 394-9115
C.O.A. P.L. #0003
C.O.A. I.A. #0001
www.CoastalPlanning.com



DATE:
11/17/03

BY:
JRC
COMM NO.:
7261.31
SHEET:
1

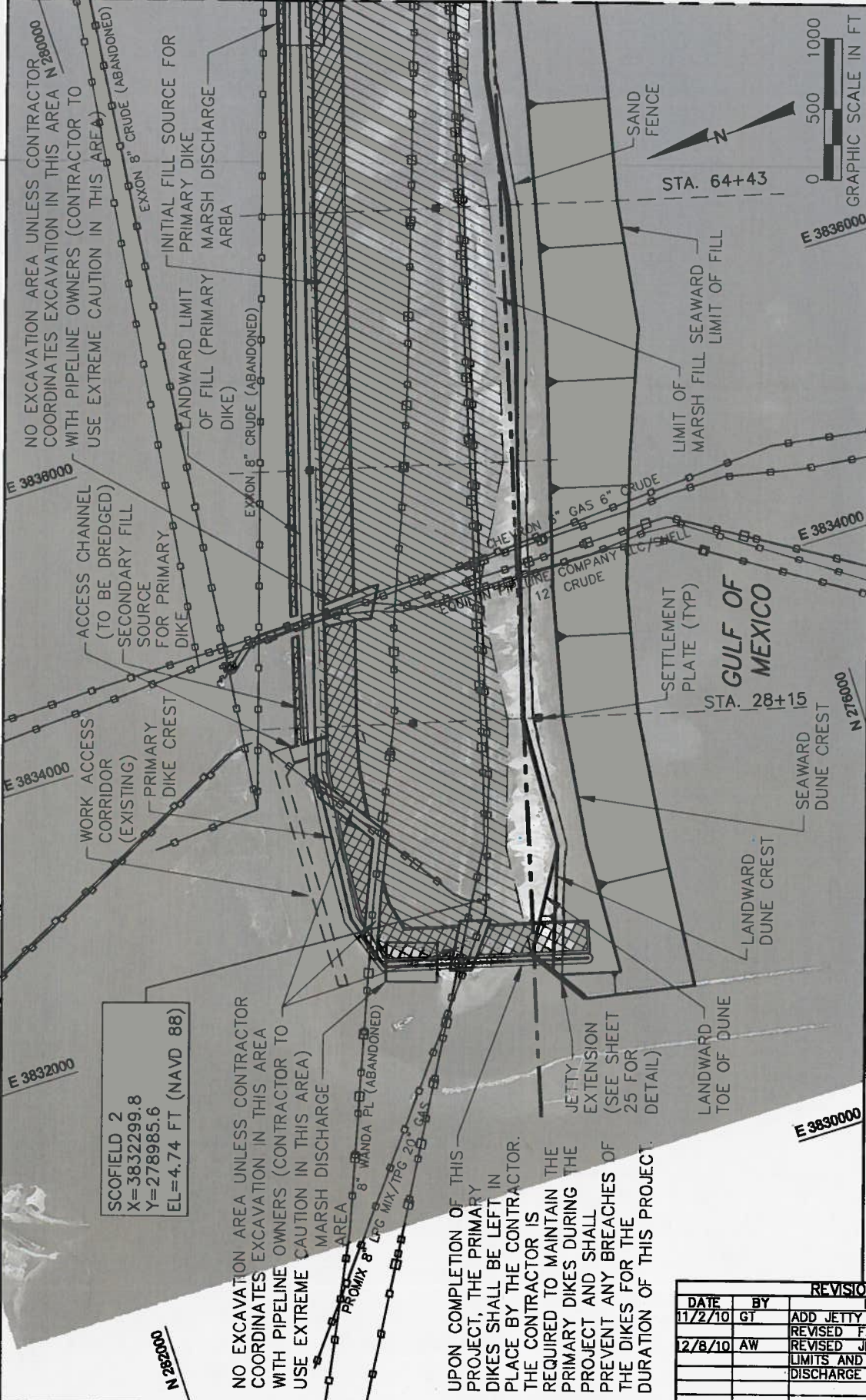
NOTE:
SOURCE OF MAP: LOUISIANA GIS CD;
A DIGITAL MAP OF THE STATE, 2 CD SET.

SHEET INDEX

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2-3	PROJECT PLAN VIEW
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5	EMPIRE BORROW AREA CROSS SECTION
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11	SANDY POINT NW DISPOSAL AREA CROSS SECTION
12	SANDY POINT SE BORROW AREA BATHYMETRY
13	SANDY POINT SE BORROW AREA OVERBURDEN CUTS
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22	TYPICAL ACCESS CHANNEL CROSS SECTION
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REVISIONS		
DATE	BY	DESCRIPTION
2/10/05	DNR	NW SANDY POINT BA REMOVED
8/10/07	TDM	REVISED CUTS PER NOAA
11/02/10	GT	UPDATED BEACH SECTION AND JETTY

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SCOFIELD 2
 X=3832299.8
 Y=278985.6
 EL=4.74 FT (NAVD 88)

NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

UPON COMPLETION OF THIS PROJECT, THE PRIMARY DIKES SHALL BE LEFT IN PLACE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PRIMARY DIKES DURING THE PROJECT AND SHALL PREVENT ANY BREACHES OF THE DIKES FOR THE DURATION OF THIS PROJECT.

REVISIONS		
DATE	BY	DESCRIPTION
11/2/10	GT	ADD JETTY, SECONDARY FILL
		REVISED FILL TEMPLATE
2/8/10	AW	REVISED JETTY EXCAVATION LIMITS AND ADDED MARSH DISCHARGE AREAS

NOTES:

1. PHOTOGRAPH TAKEN IN 2008.
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. MINOR ALIGNMENT CHANGES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.

LEGEND:

- MARSH HYDRAULIC FILL
- FILL SOURCE FOR PRIMARY DIKE
- SETTLEMENT PLATE
- PROBABLE OIL & GAS INFRASTRUCTURE
- PROJECT BASELINE
- SAND FENCING

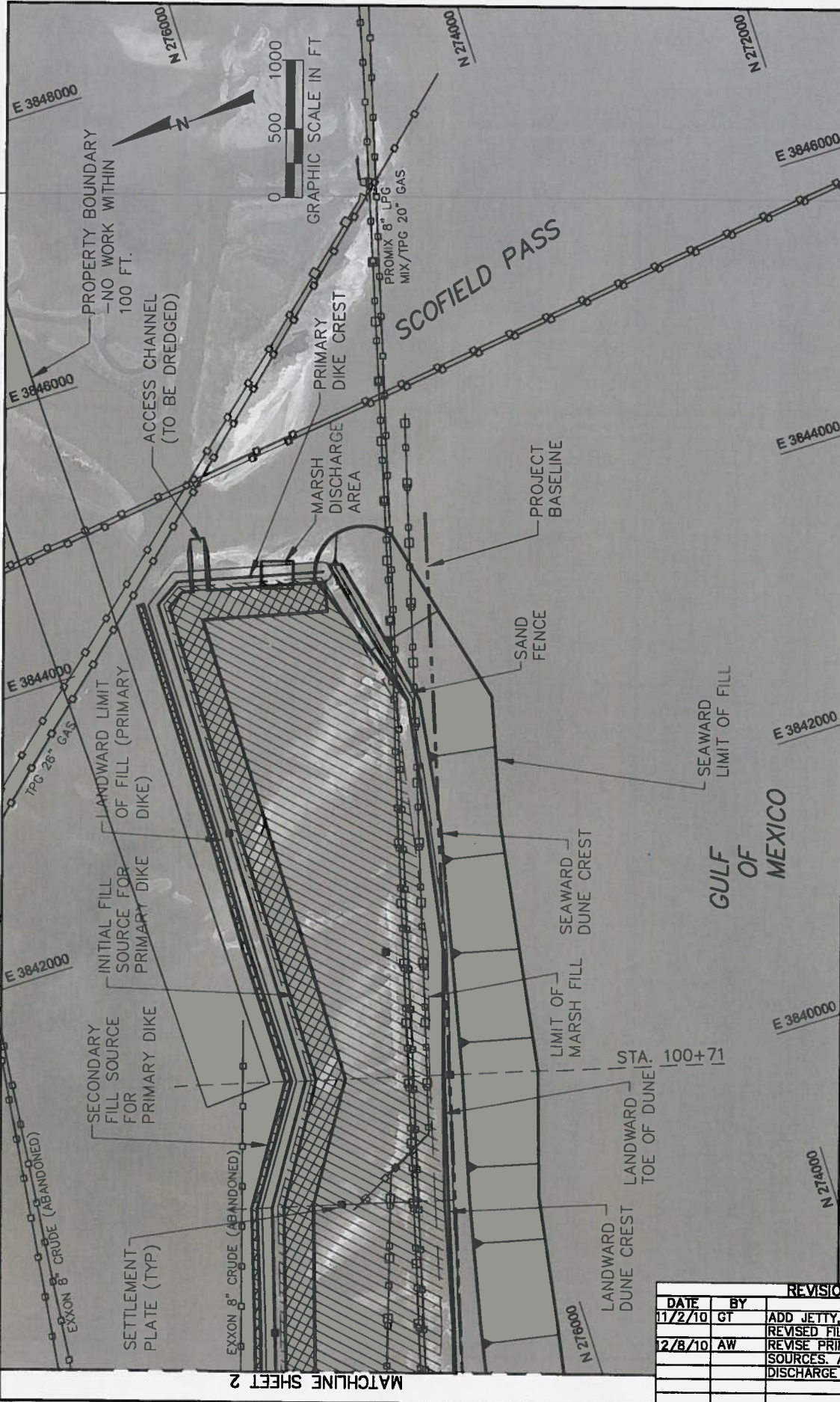
PELICAN ISLAND RESTORATION (BA-38-1) CWPRA PROJECT PROJECT PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
 3801 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33433
 P.O. BOX 20470
 BOCA RATON, FLORIDA 33420
 TEL: (561) 384-4000
 FAX: (561) 384-4004
 WWW.COASTALPE.com

DATE:
 11/5/07

BY: TM
COMM NO.: 7261.31
SHEET: 2

H:\Louisiana\1726131\Permit\PELICAN PERMIT PV.dwg -- Apr 14, 2011 @ 9:58am - hvallmer



LEGEND:

- MARSH HYDRAULIC FILL
- FILL SOURCE FOR PRIMARY DIKE
- SETTLEMENT PLATE
- PROBABLE OIL & GAS INFRASTRUCTURE
- PROJECT BASELINE
- SAND FENCING

NOTES:

- PHOTOGRAPH TAKEN IN 2008.
- 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.
- MINOR ALIGNMENT CHANGES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.

REVISIONS

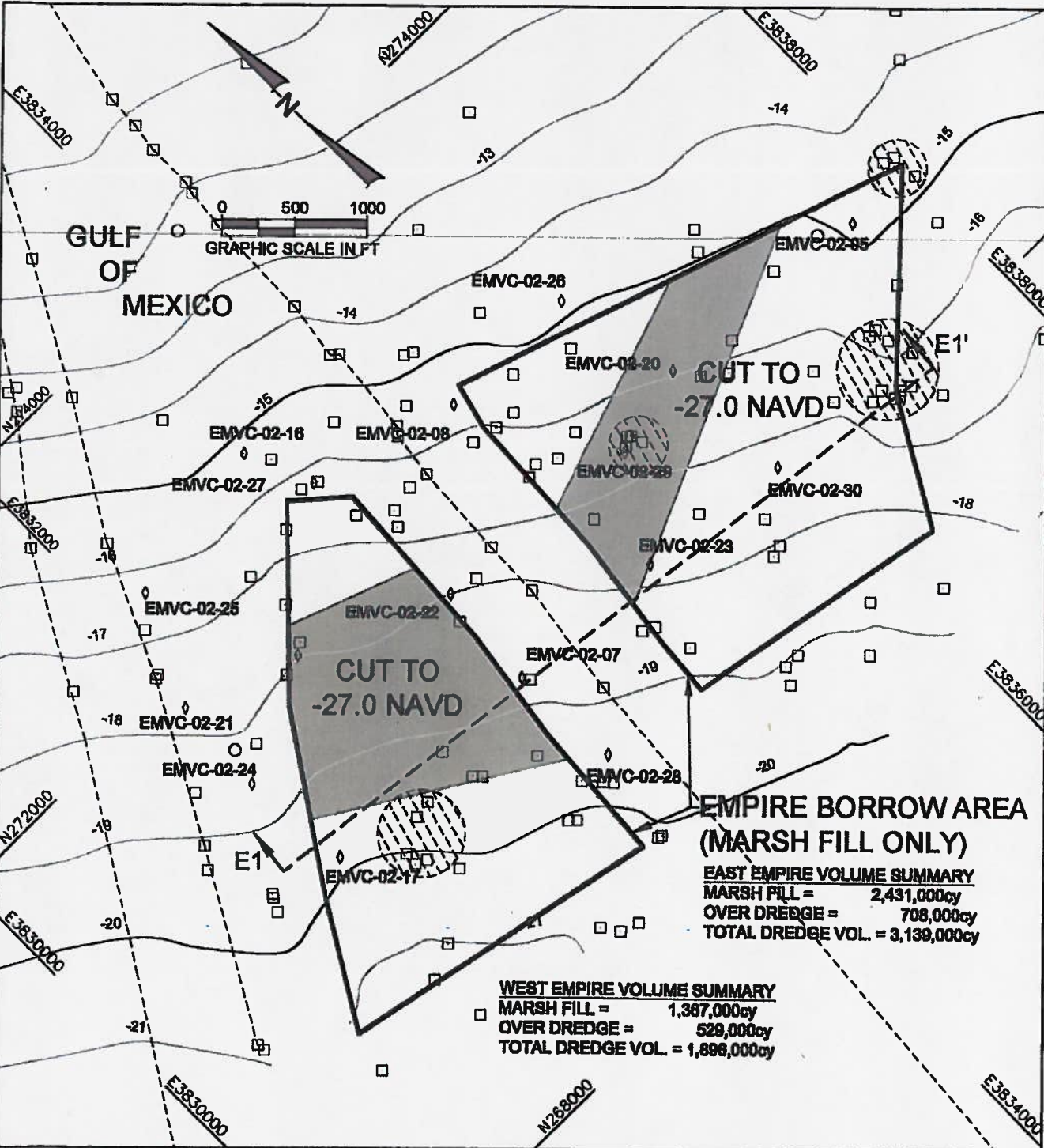
DATE	BY	DESCRIPTION
11/2/10	GT	ADD JETTY, SECONDARY FILL REVISED FILL TEMPLATE
12/8/10	AW	REVISE PRIMARY DIKE AND FILL SOURCES. ADDED MARSH DISCHARGE LOCATIONS

TITLE
PELICAN ISLAND RESTORATION (BA-38-1) CWP/PRA PROJECT PROJECT PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
 5401 N.W. 50th AVENUE
 BOCA RATON, FLORIDA 33433
 WWW.COASTALPLANNING.COM

DATE: 11/5/07
BY: TM
COMM NO.: 7261.31
SHEET: 3

MATCHLINE SHEET 2



**PELICAN ISLAND RESTORATION
 (BA-38-1) CWP/RA PROJECT
 EMPIRE BORROW AREA BATHYMETRY**

EAST EMPIRE VOLUME SUMMARY
 MARSH FILL = 2,431,000cy
 OVER DREDGE = 708,000cy
 TOTAL DREDGE VOL. = 3,139,000cy

WEST EMPIRE VOLUME SUMMARY
 MARSH FILL = 1,367,000cy
 OVER DREDGE = 529,000cy
 TOTAL DREDGE VOL. = 1,896,000cy

COASTAL PLANNING & ENGINEERING, INC.
 P.O. BOX 204-012
 FORT WORTH, TEXAS 76101-012
 SOCIAL SECURITY NO. 48-11-0000
 CAL. P.L. 86239
 CAL. L.A. 60001
 www.CoastalPlanning.com

NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- CONTOURS SHOWN HEREON ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
- PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); LOUISIANA GIS CD: 4 DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
- ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 88.

LEGEND:

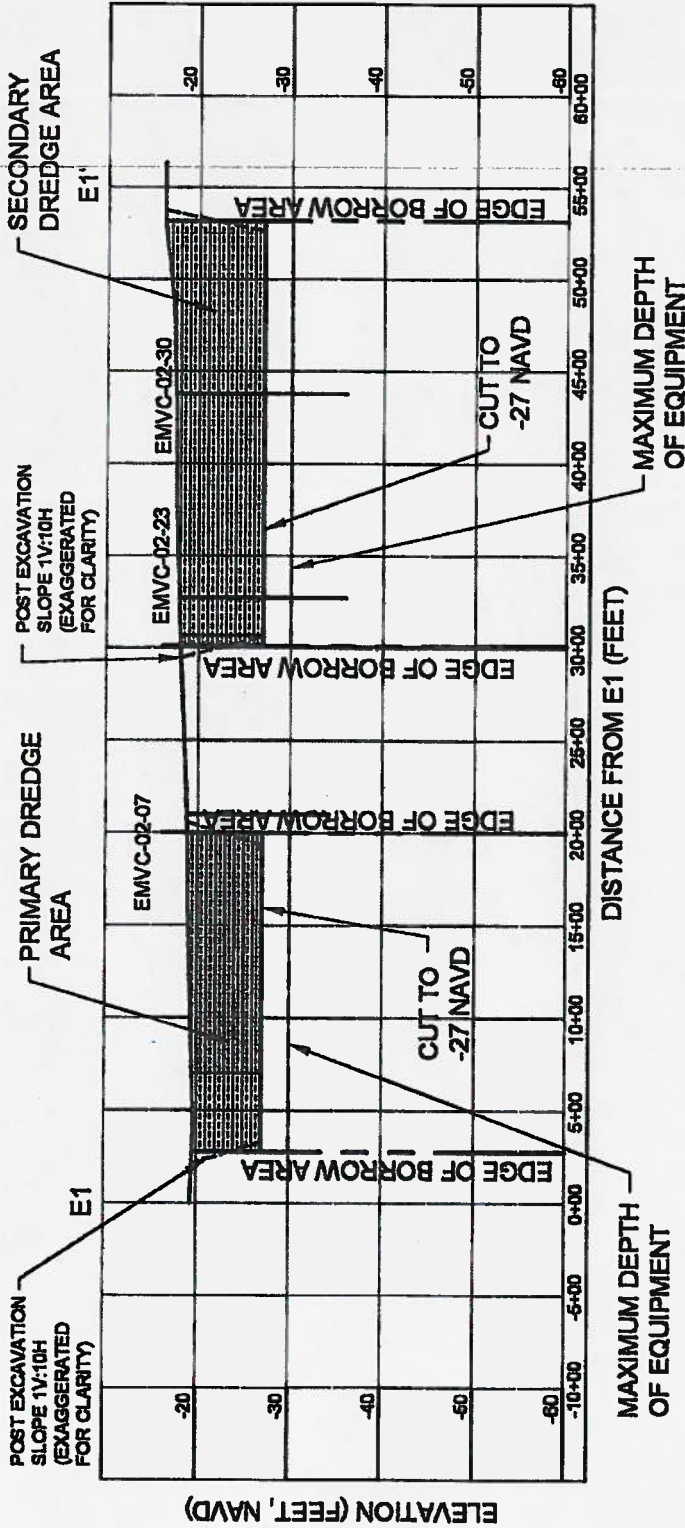
- CPE 2002 VIBRACORE LOCATION
- 2002 MAGNETOMETER HIT
- BSS CORE LOCATIONS (FROM USGS FILE REPORT NO. 01-384, DATED SEPTEMBER 2001, APPENDIX B CD ROM)
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINE LOCATION
- PRIMARY DREDGE AREA (SILT/CLAY/SAND)
- BATHYMETRIC CONTOUR

REVISIONS		
DATE	BY	DESCRIPTION
8/10/07	TDM	REVISED CUTS PER NOAA
11/2/10	GT	ADDED CUT VOLUMES

DATE: 11/17/03
 BY: JRC
 COMM NO.: 7261.31
 SHEET: 4

H:\Louisiana\7261\31\1P\Permis\PELICAN SE BORROW AREA PV.DWG - Dec 18, 2010 @ 3:19pm - tywilmer

EMPIRE BORROW AREA CROSS SECTION E1 - E1'



- NOTE:**
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 ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 4. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW THE DESIGN CUT DEPTH.

LEGEND:

- EMVC-02-17 DENOTES CPE 2002 VIBRACORE LOCATION
- SILT/CLAY/SAND (PRIMARY DREDGE AREA)
- SILT/CLAY LAYER

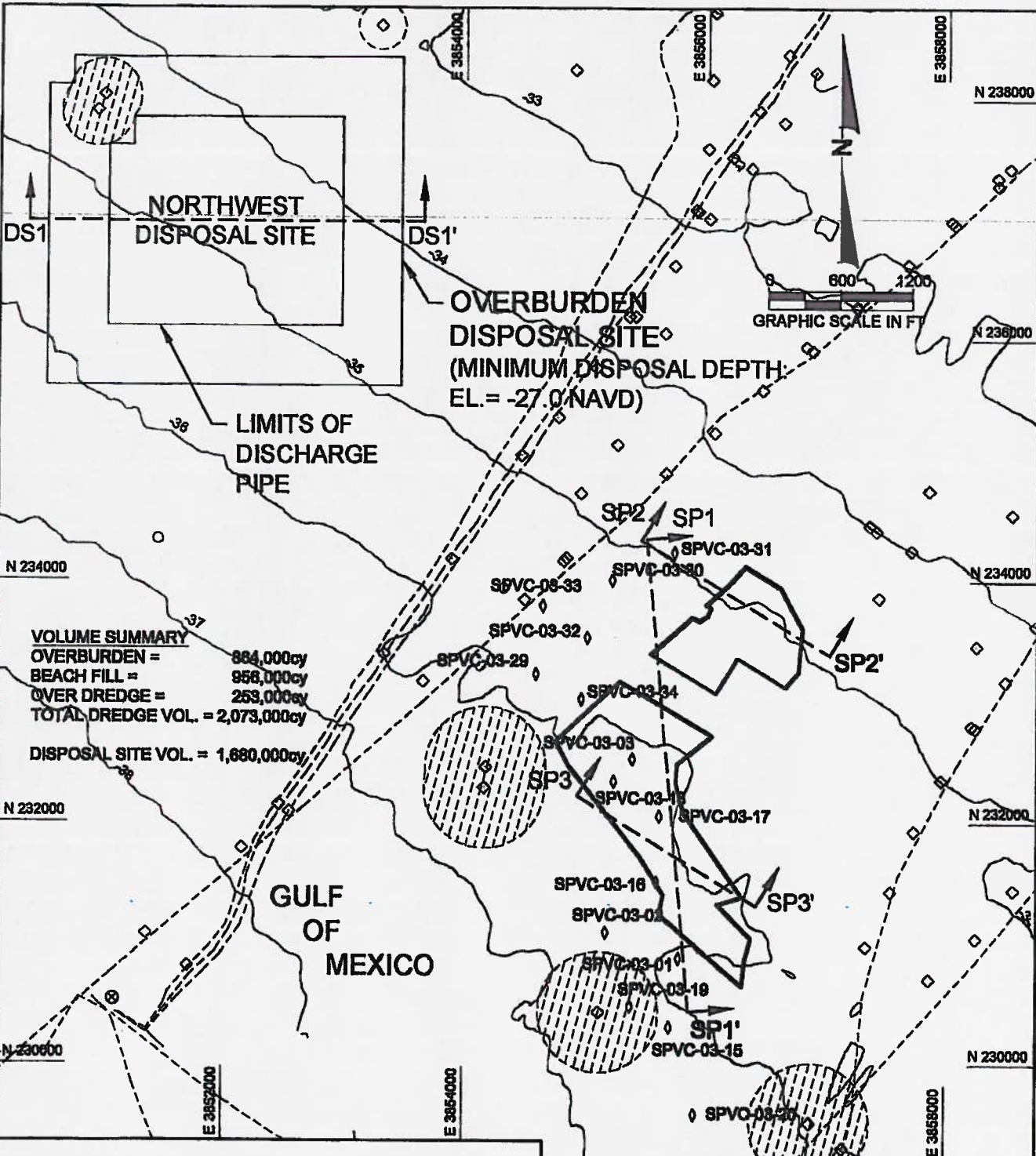
SCALE: 1"= 1000' HORIZONTAL
1"=20' VERTICAL

REVISIONS		
DATE	BY	DESCRIPTION
1/2/10	GT	ADD MDE NOTE

COASTAL PLANNING & ENGINEERING, INC.
 2601 NW BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 394-0202
 FAX: (561) 394-0118
 C.O.A. #L 0000
 C.O.A. I.A. 0001

EMPIRE BORROW AREA CROSS SECTION (BA-38-1) CWPRA PROJECT

DATE: 11/17/03
 BY: JRC
 COMM NO.: 7261.31
 SHEET: 5



**PELICAN ISLAND RESTORATION
 (BA-38-1) CWP/PRA PROJECT
 SANDY POINT NW BORROW AREA BATHYMETRY**

COASTAL PLANNING & ENGINEERING, INC.
 2801 N.W. 103th Avenue
 Boca Raton, Florida 33433
 P: (561) 397-4747
 F: (561) 397-4748
 C.A.A. - FL #002
 C.A.A. - LA #001
 www.CoastalPE.com

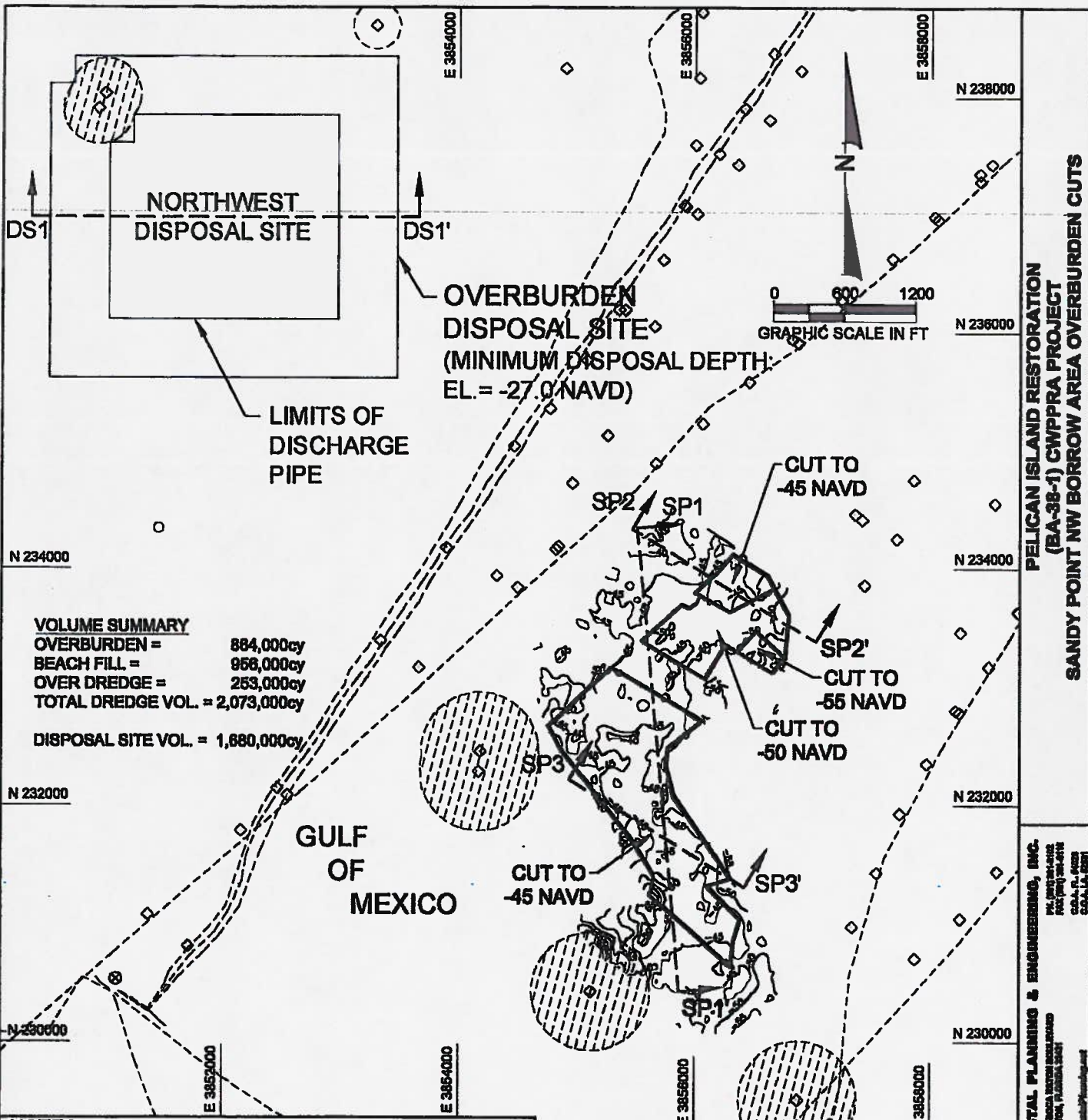
- NOTES:**
- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
 - CONTOURS SHOWN ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
 - PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
 - ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- LEGEND:**
- ◊ CPE 2003 VIBRACORE LOCATION
 - ◊ MAGNETIC ANOMALY
 - ◊ MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
 - - - PIPELINES
 - 36 BATHYMETRIC CONTOUR

REVISIONS		
DATE	BY	DESCRIPTION
12/17/03	STR	REVISED CUTS
8/10/07	TDM	REVISED CUTS PER NOAA
8/29/07	JRC	REVISED BA SHAPE

DATE: 11/17/03
 BY: JRC
 COMM NO.: 7261.31
 SHEET: 6

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VOLUME SUMMARY
 OVERBURDEN = 884,000cy
 BEACH FILL = 956,000cy
 OVER DREDGE = 283,000cy
 TOTAL DREDGE VOL. = 2,073,000cy
 DISPOSAL SITE VOL. = 1,880,000cy

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWP/PRA PROJECT
 SANDY POINT NW BORROW AREA OVERBURDEN CUTS**

COASTAL PLANNING & ENGINEERING, INC.
 P.O. BOX 264-2428
 BOCA RATON, FLORIDA 33432
 CO. P.A. #2228
 CO. I.A. #2281

NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- CONTOURS SHOWN ARE IN FEET AND DEPICT THE FIRST SEISMIC REFLECTOR DERIVED FROM THE SEISMIC SURVEY CONDUCTED BY CPE, MAY 2003.
- PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

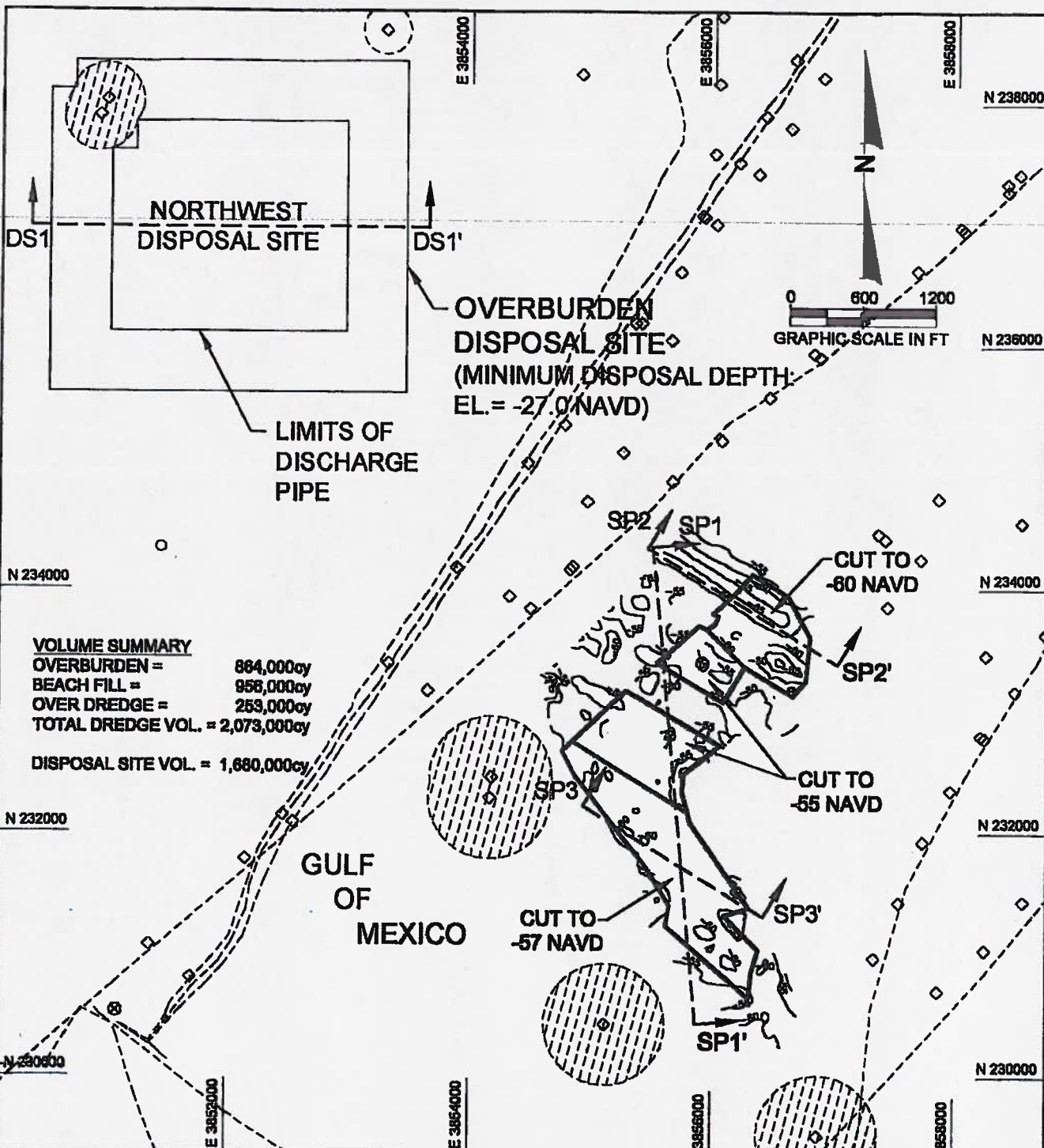
LEGEND:

- ◇ MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- - - PIPELINES
- 45- 1ST SIESMIC REFLECTOR CONTOUR

REVISIONS		
DATE	BY	DESCRIPTION
12/17/03	STR	REVISED CUTS
8/10/07	TDM	REVISED CUTS PER NOAA

DATE:
11/17/03
 BY:
JRC
 COMM NO.:
7261.31
 SHEET:
7

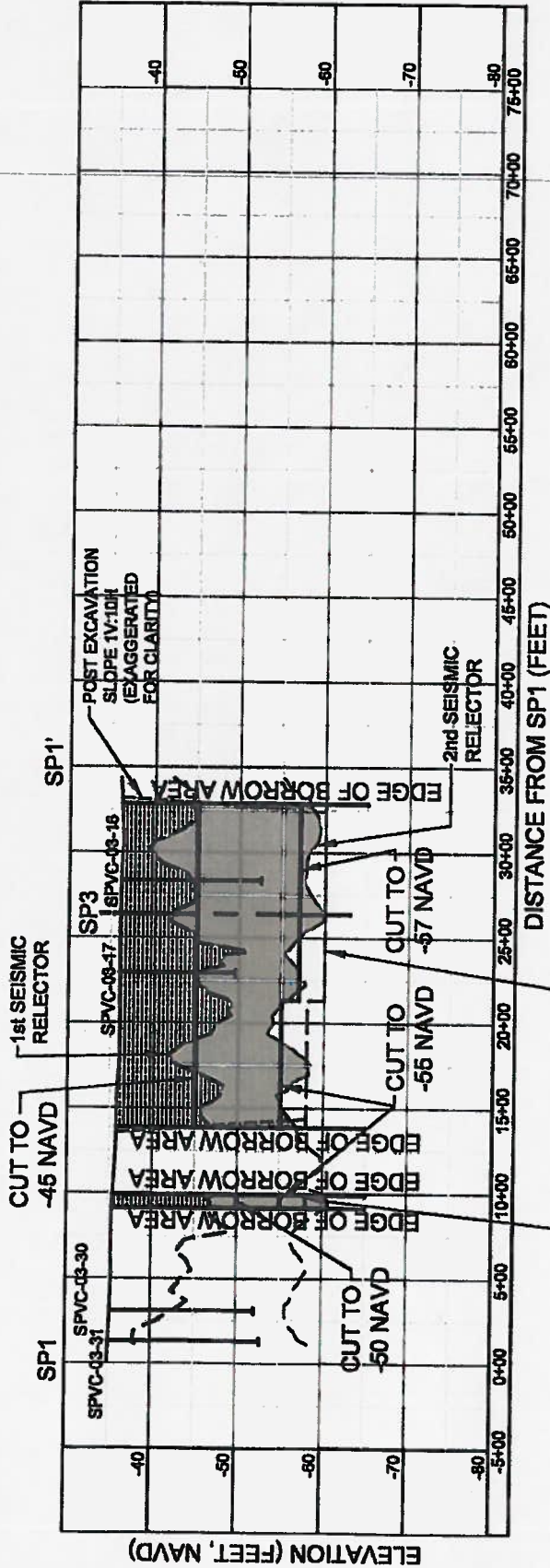
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H:\Louisiana\7261\31\Permits\PELICAN - 12161\PELICAN NW BORROW AREA PV DWG - Dec 16, 2010 @ 3:12pm - hvrdimer

**PELICAN ISLAND RESTORATION
 (BA-38-1) GWPPRA PROJECT
 SANDY POINT NW BORROW AREA DESIGN CUTS**

SANDY POINT NW BORROW AREA CROSS SECTION SP1-SP1'



NOTES:

1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 6-8 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. BEACH COMPATIBLE SEDIMENTS DELINEATED FROM VIBRACORES. ADDITIONAL COMPATIBLE SEDIMENTS MAY BE PRESENT BELOW THE INTERMITTENT ACOUSTIC REFLECTOR.
5. SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
6. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

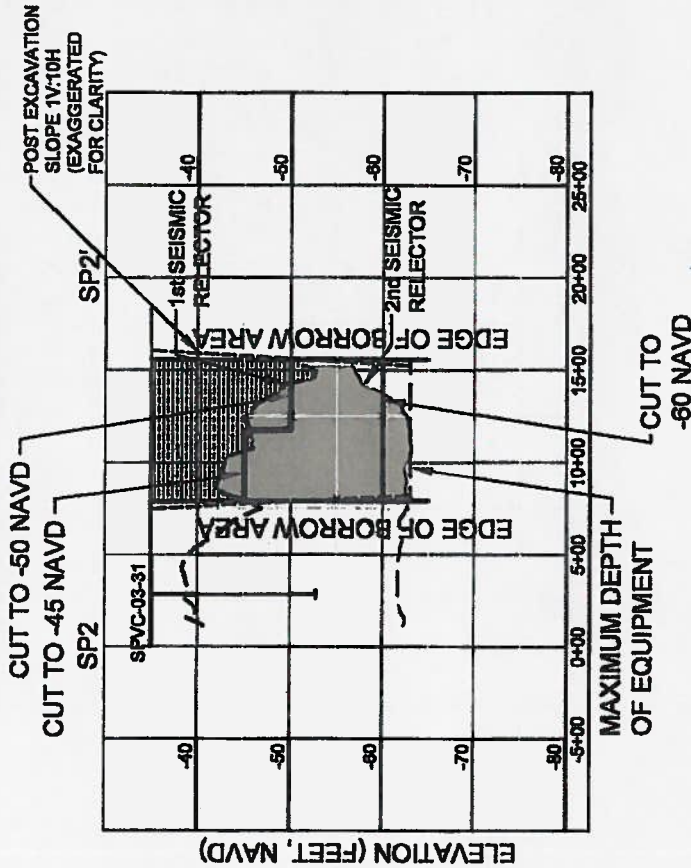
- SPVC-08-08 DENOTES CPE 2003 VIBRACORE LOCATION
- MAXIMUM DEPTH OF EQUIPMENT
- [Hatched Box] BEACH COMPATIBLE SEDIMENTS
- [Dashed Box] SURFACE SILT/CLAY LAYER
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY

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

REVISIONS		DATE	BY	DESCRIPTION
12/17/03	STR			REVISED CUTS
8/10/07	TUM			REVISED CUTS PER NOAA

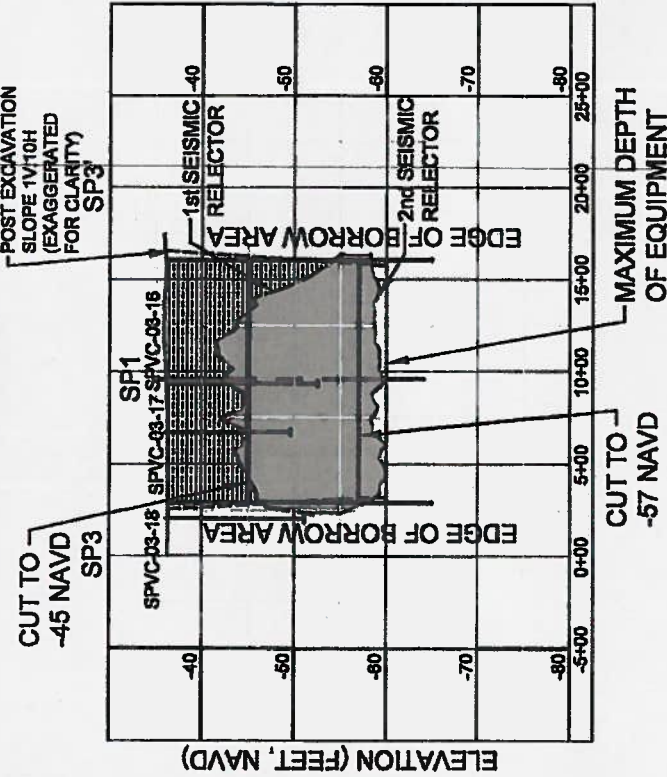
COASTAL PLANNING & ENGINEERING, INC.		TITLE	
2401 N.W. BOCA RATON BOULEVARD BOCA RATON, FLORIDA 33411 www.CoastalPlanning.com		PELICAN ISLAND RESTORATION (BA-38-1) CWP/PPRA PROJECT SANDY POINT NW BORROW AREA CROSS SECTIONS	
DATE: 11/17/03		BY: JRC	
COMM NO.: 7261.31		SHEET: 9	

**SANDY POINT NW BORROW AREA
CROSS SECTION SP2-SP2'**



DISTANCE FROM SP2 (FEET)

**SANDY POINT NW BORROW AREA
CROSS SECTION SP3-SP3'**



DISTANCE FROM SP3 (FEET)

NOTES:

- VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
- SEE SHEET 8-8 FOR LOCATION OF CROSS SECTION LINES.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 89).
- BEACH COMPATIBLE SEDIMENTS DELINEATED FROM VIBRACORES. ADDITIONAL COMPATIBLE SEDIMENTS MAY BE PRESENT BELOW THE INTERMITTENT ACOUSTIC REFLECTOR.
- SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
- MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

- SPVC-03-08 DENOTES CPE 2003 VIBRACORE LOCATION
- MAXIMUM DEPTH OF EQUIPMENT
- [Hatched Box] BEACH COMPATIBLE SEDIMENTS
- [Horizontal Line Box] SURFACE SILT/CLAY LAYER
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY

REVISIONS		DATE	BY	DESCRIPTION
1	REVISED CUTS	12/17/03	STR	
2	REVISED CUTS PER NOAA	5/10/07	TCM	

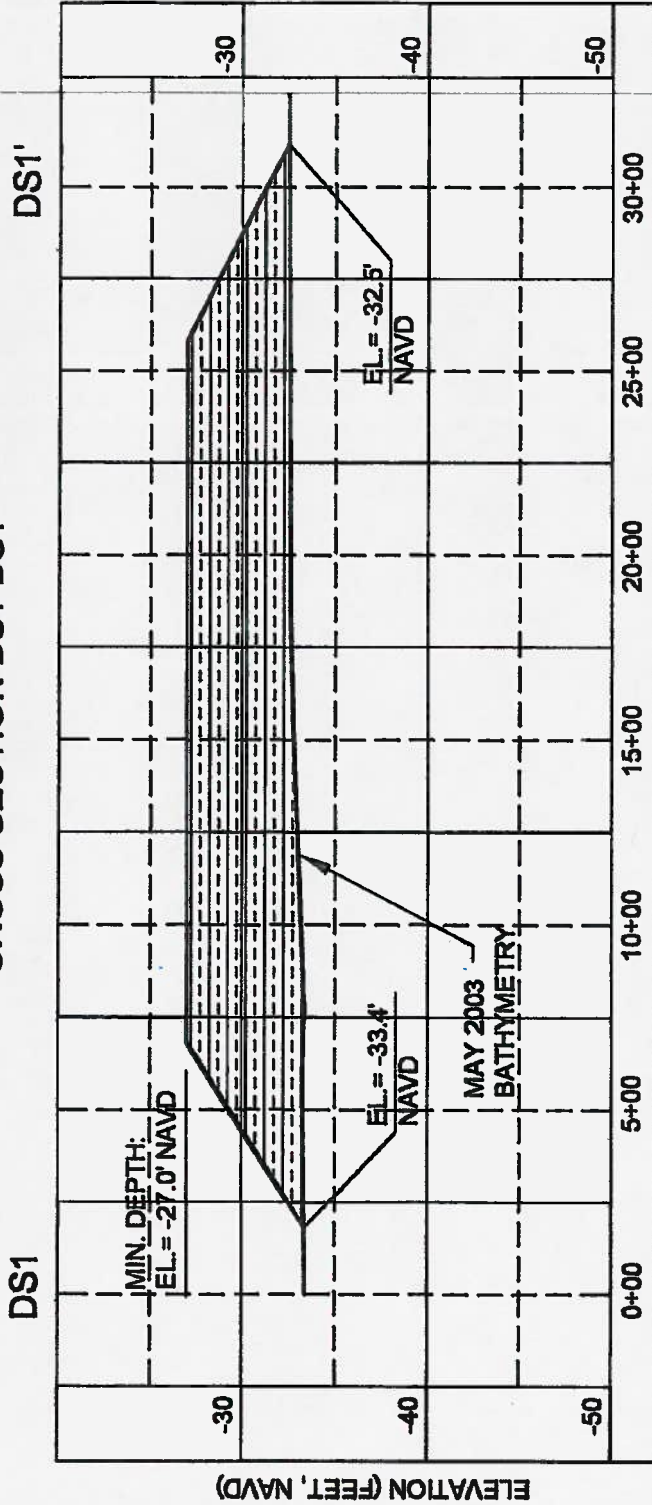
DATE:	11/17/03
BY:	JRC
COMM NO.:	7281.31
SHEET:	10

CPE
 COASTAL PLANNING & ENGINEERING, INC.
 2681 A.W. BOCCA NATION BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 394-1300
 FAX: (561) 394-0195
 C.O.A., I.A. #2028
 www.CoastalPlanning.com

**PELICAN ISLAND RESTORATION
(BA-38-1) CWP/PPA PROJECT
SANDY POINT NW BORROW AREA CROSS SECTIONS**

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

**SANDY POINT NW DISPOSAL SITE
CROSS SECTION DS1-DS1'**



DISTANCE FROM DS1 (FEET)

SCALE: 1" = 500' HORIZONTAL
1" = 10' VERTICAL

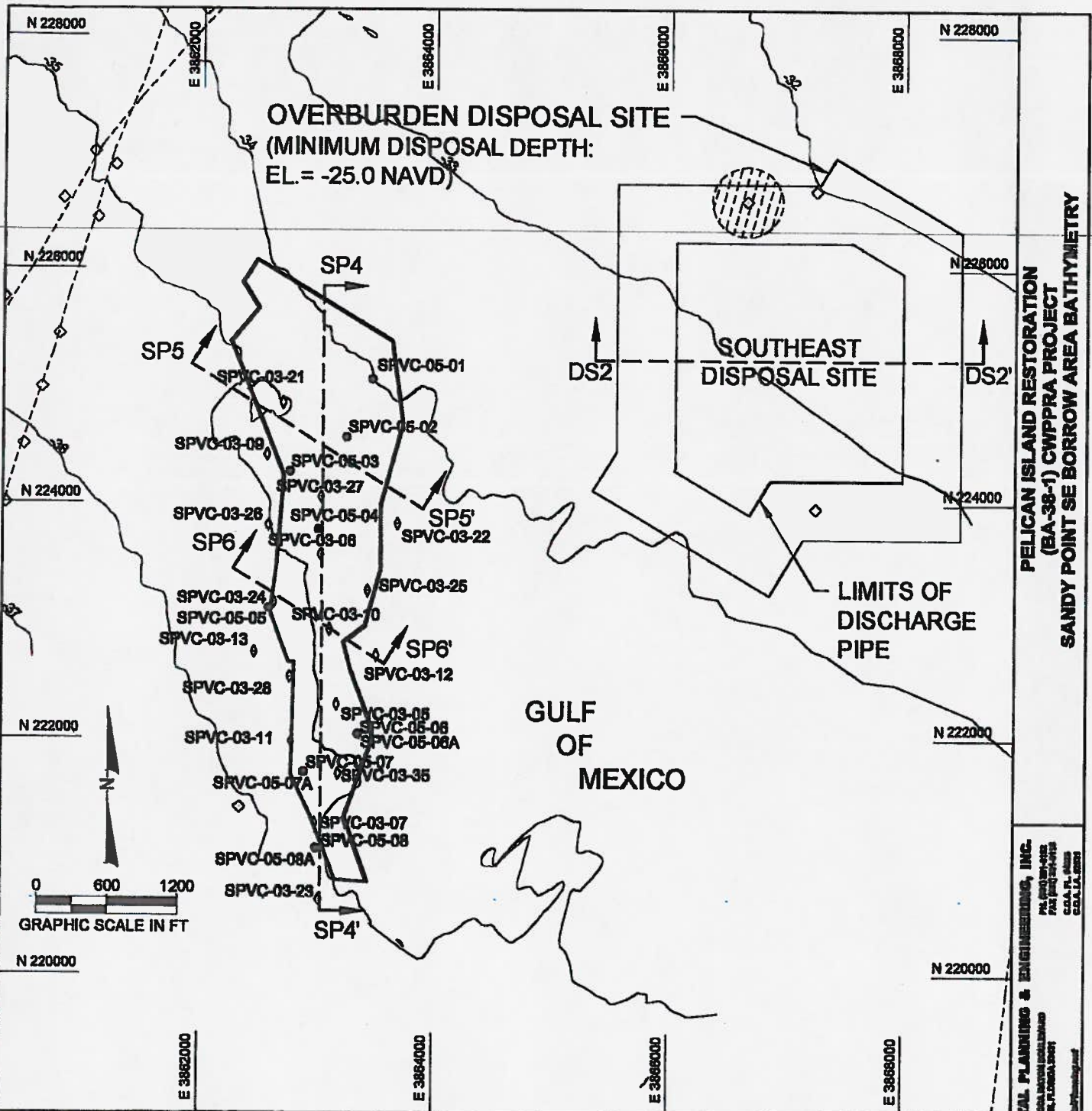
NOTE:
1. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:

--- OVERBURDEN DISPOSAL

REVISIONS		JRC
DATE	BY	DESCRIPTION
2/10/05	DNR	NW SANDY POINT BA REMOVED
8/10/07	TDM	REVISED CUTS PER NOAA

		COASTAL PLANNING & ENGINEERING, INC. 2845 NW 50th BATHWATERLAWARD BOCA RATON, FLORIDA 33433 P: (561) 991-0000 F: (561) 363-9710 C.O.A. # 1002 C.S.A. # 1001 www.CoastalPlanning.com	PELICAN ISLAND RESTORATION (BA-38-1) CWFPPRA PROJECT SANDY POINT NW DISPOSAL AREA CROSS SECTION
DATE:	11/17/03	TITLE:	
BY:	JRC		
COMM NO.:	7261.31		
SHEET:	11		



**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPRA PROJECT
 SANDY POINT SE BORROW AREA BATHYMETRY**

COASTAL PLANNING & ENGINEERING, INC.
 2905 ALABAMA AVENUE SUITE 100
 BOCA RATON, FLORIDA 33433
 PHONE: (561) 991-4422
 FAX: (561) 991-4418
 C.O.A. # 14323
 C.O.A. # 14323

COASTAL PLANNING & ENGINEERING, INC.
 2905 ALABAMA AVENUE SUITE 100
 BOCA RATON, FLORIDA 33433
 PHONE: (561) 991-4422
 FAX: (561) 991-4418
 C.O.A. # 14323
 C.O.A. # 14323



DATE: 11/17/03
 BY: JRC

COMM NO.: 7261.31
 SHEET: 12

NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- CONTOURS SHOWN ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
- PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

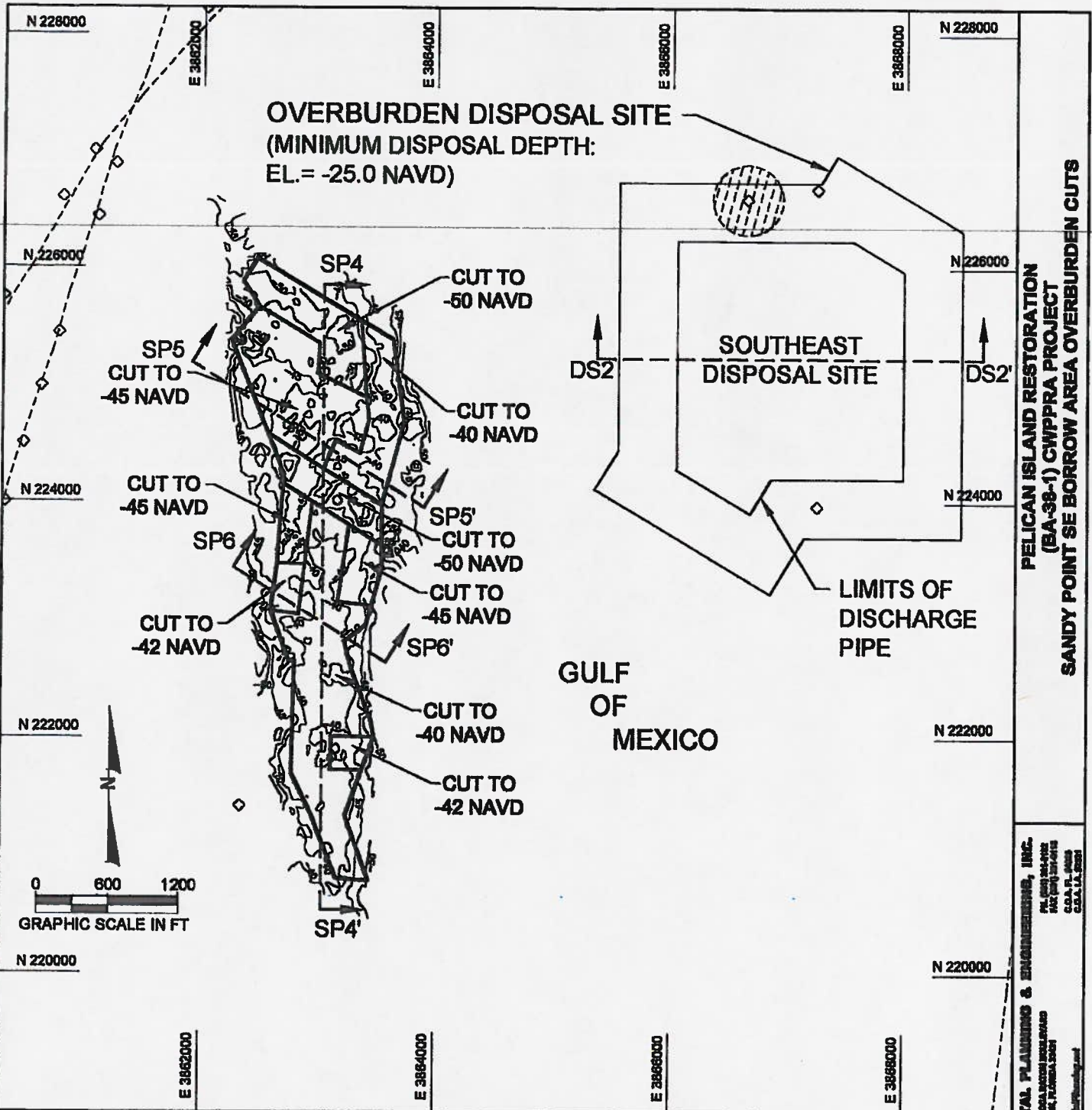
LEGEND:

- DENOTES CPE 2003 VIBRACORE LOCATION
- DENOTES CPE 2005 VIBRACORE LOCATION
- DENOTES MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- BATHYMETRIC CONTOUR

REVISIONS		
DATE	BY	DESCRIPTION
12/17/03	STR	REVISED CUTS
2/10/05	TDM	NW SANDY POINT BA REMOVED
8/10/07	TDM	REVISED CUTS PER NOAA

H:\Louisiana\726131\Permits\PELICAN_SE BORROW AREA PV DIMG - Dec 16, 2010 @ 3:20pm - hvallmer

H:\Louisiana\726131\1P\perm\pelican SE BORROW AREA PV DWG - Dec 16, 2010 @ 3:20pm - hwallmer



OVERBURDEN DISPOSAL SITE
 (MINIMUM DISPOSAL DEPTH:
 EL. = -25.0 NAVD)

**SOUTHEAST
 DISPOSAL SITE**

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPFA PROJECT
 SANDY POINT SE BORROW AREA OVERBURDEN CUTS**

COASTAL PLANNING & ENGINEERING, INC.
 3801 HALL BLDG. SUITE 200
 MOBILE, ALABAMA 36688
 C.A.A. # 1-1000
 C.A.A. # 1-2000
 www.CoastalPlanning.com

NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- CONTOURS SHOWN ARE IN FEET AND DEPICT THE FIRST SEISMIC REFLECTOR DERIVED FROM THE SEISMIC SURVEY CONDUCTED BY CPE, MAY 2003.
- PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:

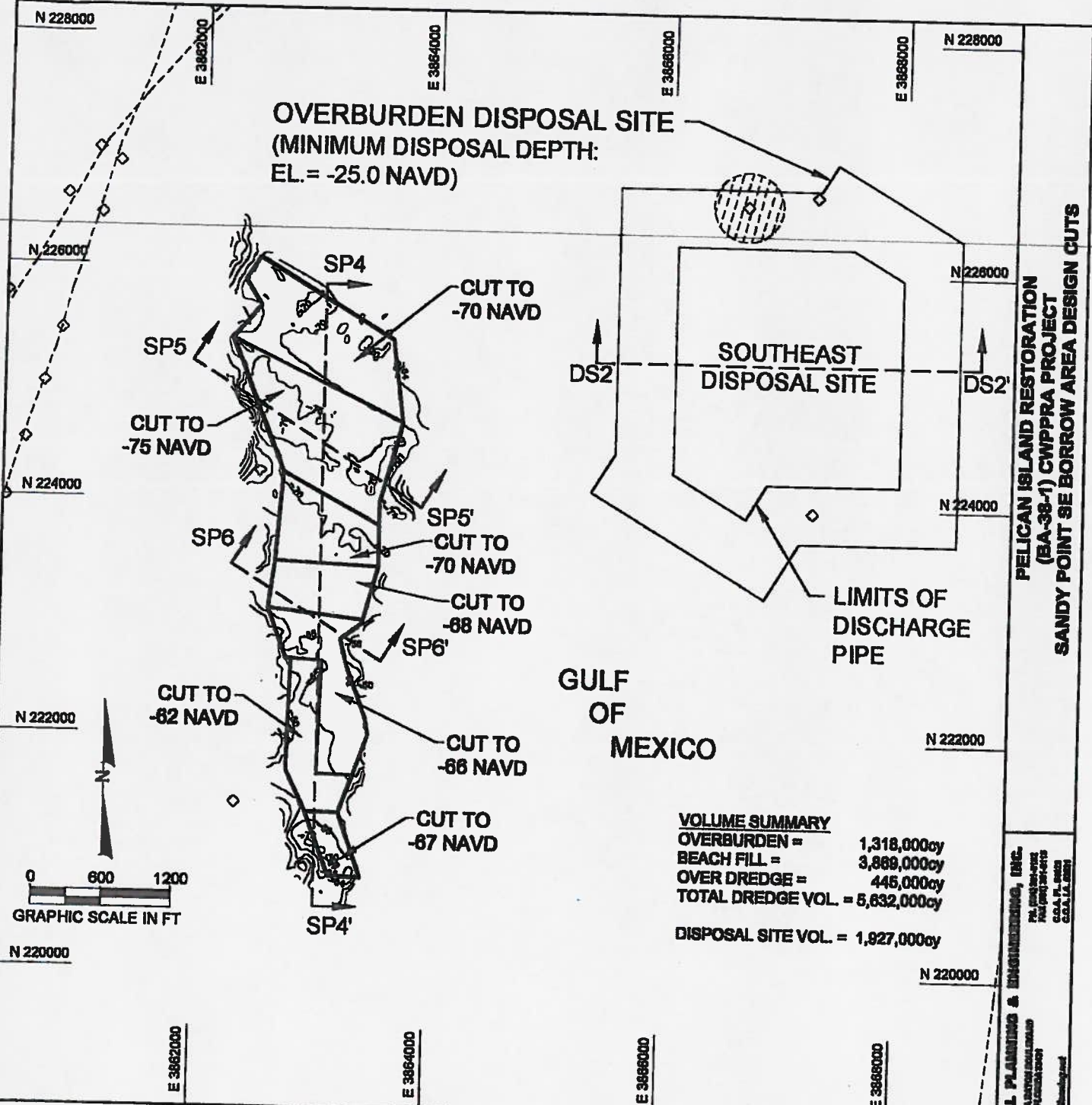
- DENOTES CPE 2003 VIBRACORE LOCATION
- DENOTES MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- 1ST SEISMIC REFLECTOR CONTOUR

DATE:
 11/17/03
 BY:

JRC
 COMM NO.:
 7261.31
 SHEET:
 13

REVISIONS		
DATE	BY	DESCRIPTION
12/17/03	STR	REVISED CUTS
2/10/05	TOM	NW SANDY POINT BA REMOVED
8/10/07	TOM	REVISED CUTS PER NOAA

H:\Louisiana\1726181\IPermits\PELICAN_121610\PELICAN_SE BORROW AREA PV DWG - Dec 16, 2010 @ 3:21 pm - hvallmer



**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPRA PROJECT
 SANDY POINT SE BORROW AREA DESIGN CUTS**

VOLUME SUMMARY
 OVERBURDEN = 1,318,000cy
 BEACH FILL = 3,889,000cy
 OVER DREDGE = 445,000cy
 TOTAL DREDGE VOL. = 5,632,000cy
 DISPOSAL SITE VOL. = 1,927,000cy

COASTAL PLANNING & ENGINEERING, INC.
 2405 W. BRASS CANYON ROAD, SUITE 100
 HOUMA, LOUISIANA 70309
 P.O. BOX 100
 HOUMA, LA 70309
 TEL: 847-321-1111
 FAX: 847-321-1112
 WWW.COASTALPE.com



NOTES:

- COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
- CONTOURS SHOWN ARE IN FEET AND DEPICT THE ELEVATION OF THE SECOND SEISMIC REFLECTOR DERIVED FROM THE SEISMIC SURVEY CONDUCTED BY CPE, MAY 2003.
- PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:

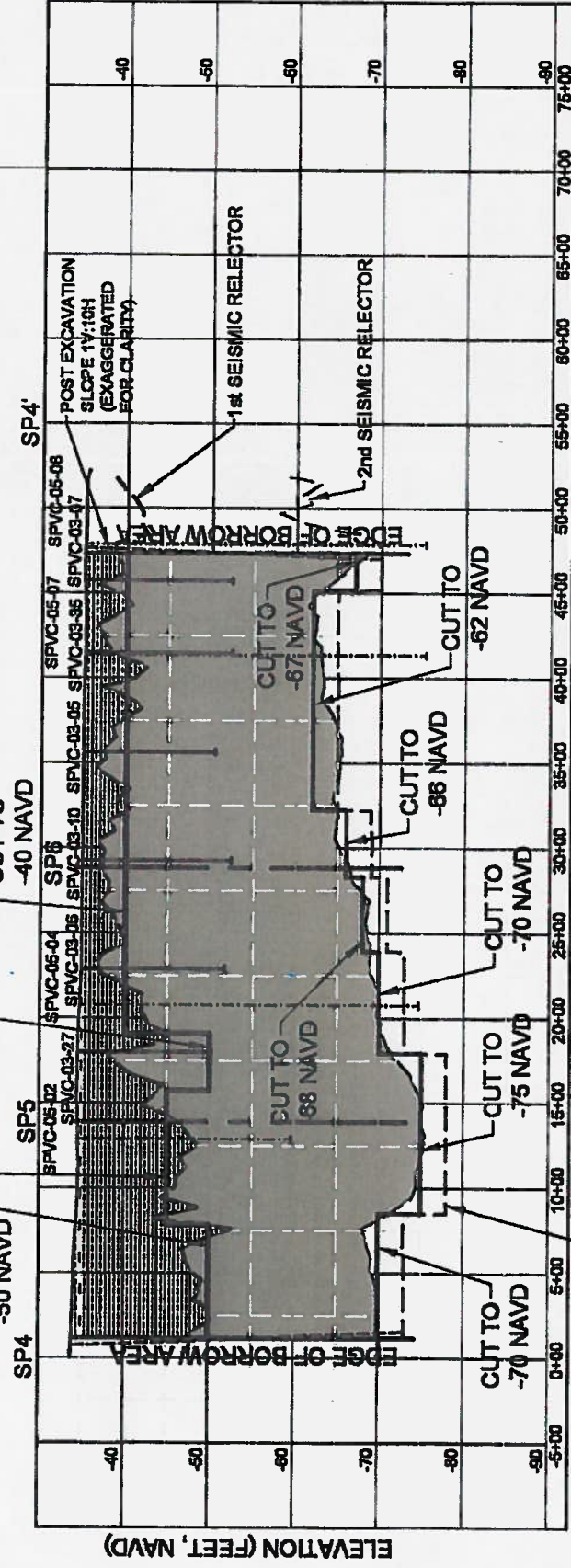
- DENOTES CPE 2003 VIBRACORE LOCATION
- DENOTES MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- 2ND SEISMIC REFLECTOR CONTOUR

DATE:
11/17/03
BY:

REVISIONS		
DATE	BY	DESCRIPTION
2/17/03	STR	REVISED CUTS
2/10/05	TDM	NW SANDY POINT BA REMOVED
8/10/07	TDM	REVISED CUTS PER NOAA

JRC
 COMM NO.:
 7261.31
 SHEET:
 14

SANDY POINT SE BORROW AREA CROSS SECTION SP4-SP4'



DISTANCE FROM SP4 (FEET)

MAXIMUM DEPTH
OF EQUIPMENT

NOTES:

1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL. SEE SHEET 12-14 FOR LOCATION OF CROSS SECTION LINES.
2. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. BEACH COMPATIBLE SEDIMENTS DELINEATED FROM VIBRACORES. ADDITIONAL COMPATIBLE SEDIMENTS MAY BE PRESENT BELOW THE INTERMITTENT ACOUSTIC REFLECTOR.
4. SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
5. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

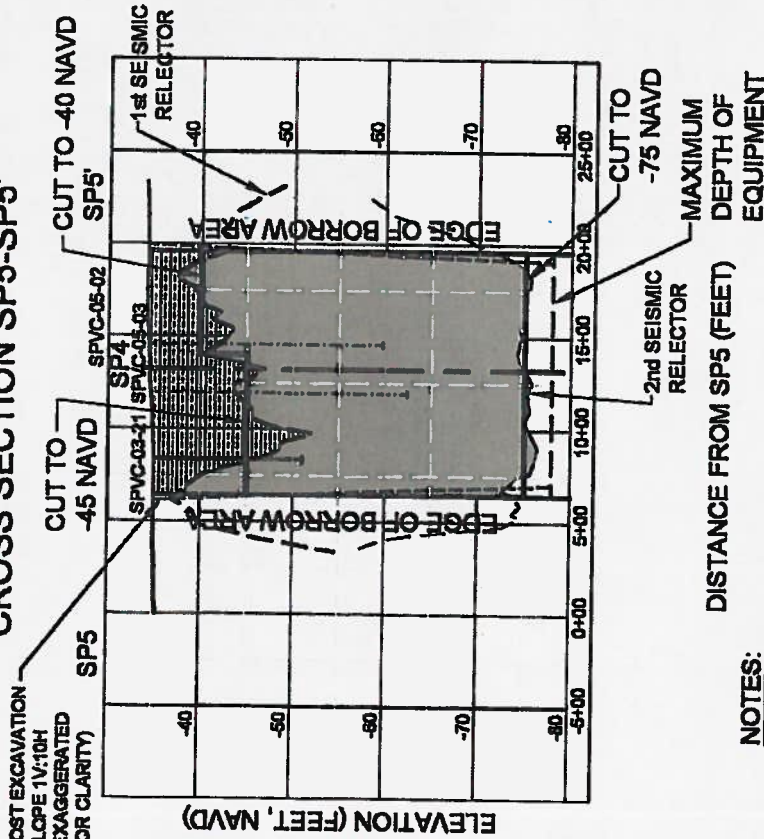
- SPVC-03-03 DENOTES CPE 2003 VIBRACORE LOCATION
- SPVC-05-05 DENOTES CPE 2005 VIBRACORE LOCATION
- MAXIMUM DEPTH OF EQUIPMENT
- ▨ BEACH COMPATIBLE SEDIMENTS
- ▨ SURFACE SILT/CLAY LAYER
- ▨ INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY

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

REVISIONS		
DATE	BY	DESCRIPTION
12/17/03	STR	REVISED CUTS
2/10/05	DNR	NW SANDY POINT BA REMOVED
6/10/07	TDM	REVISED CUTS PER NOAA

PELICAN ISLAND RESTORATION (BA-38-1) CWP/PRA PROJECT	
SANDY POINT SE BORROW AREA CROSS SECTIONS	
COASTAL PLANNING & ENGINEERING, INC. 3401 NW 3603 EAST AVE BOCA RATON, FLORIDA 33431 WWW.COASTALPLANNING.COM	TITLE DATE: 11/17/03 BY: JRC COMM NO.: 7261.31 SHEET: 15

SANDY POINT SE BORROW AREA CROSS SECTION SP5-SP5'



NOTES:

- VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
- SEE SHEET 12-14 FOR LOCATION OF CROSS SECTION LINES.
- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- BEACH COMPATIBLE SEDIMENTS DELINEATED FROM VIBRACORES. ADDITIONAL COMPATIBLE SEDIMENTS MAY BE PRESENT BELOW THE INTERMITTENT ACOUSTIC REFLECTOR.
- SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
- MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:

- SPVC-03-03 DENOTES CPE 2003 VIBRACORE LOCATION
- SPVC-05-05 DENOTES CPE 2005 VIBRACORE LOCATION
- BEACH COMPATIBLE SEDIMENTS
- SURFACE SILT/CLAY LAYER
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY
- MAXIMUM DEPTH OF EQUIPMENT



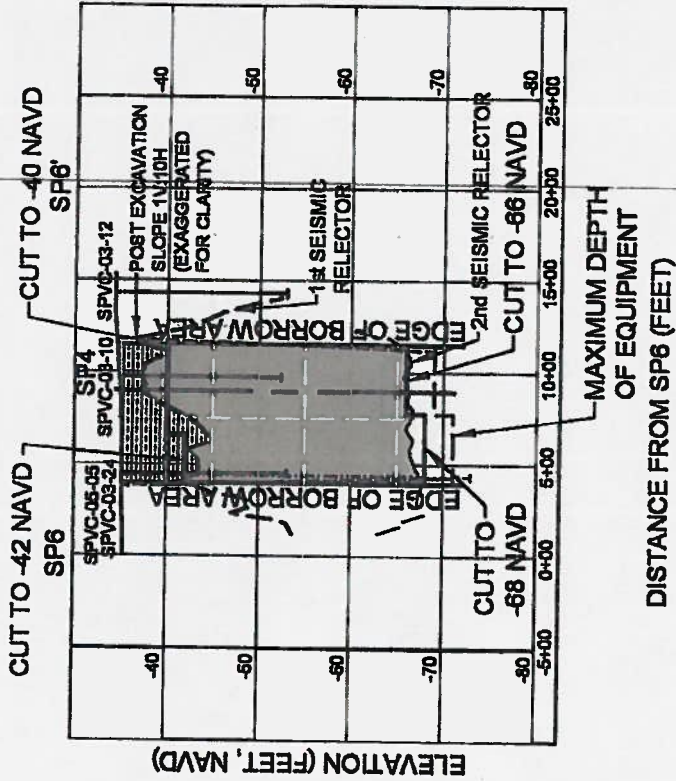
COASTAL PLANNING & ENGINEERING, INC.
 2801 NW BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 994-8882
 FAX: (561) 291-0915
 C.O.A. FL. 0002
 C.O.A. LA. 0001

DATE: 11/17/03
 BY: JRC

DATE	BY	REVISIONS	DESCRIPTION
12/17/03	STR	REVISED CUTS	
2/10/05	CNR	NW SANDY POINT BA REMOVED	
5/10/07	TDM	REVISED CUTS PER NOAA	

COMB NO.: 7261.31
 SHEET: 16

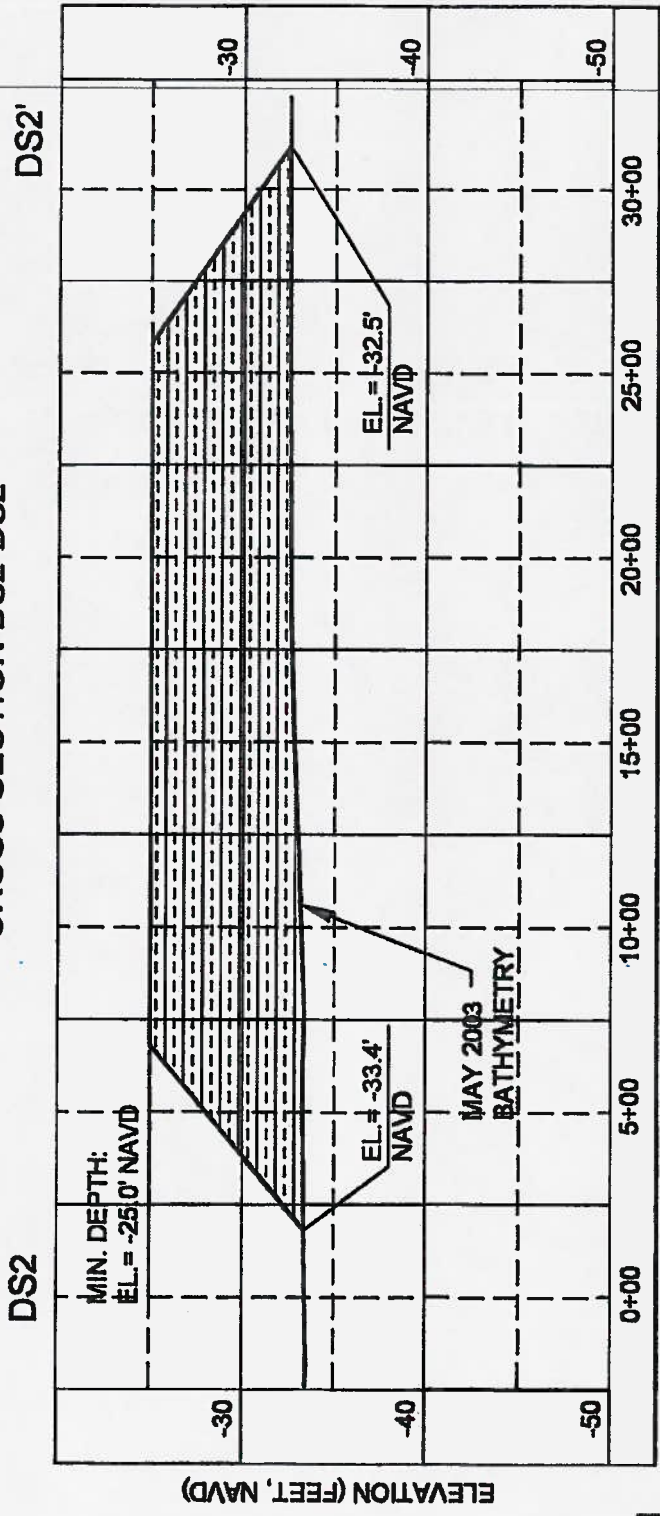
SANDY POINT SE BORROW AREA CROSS SECTION SP6-SP6'



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

**PELICAN ISLAND RESTORATION
 (BA-36-1) CWP/PRA PROJECT
 SANDY POINT SE BORROW AREA CROSS SECTIONS**

**SANDY POINT SE DISPOSAL SITE
CROSS SECTION DS2-DS2'**



DISTANCE FROM DS2 (FEET)


SCALE: 1" = 500' HORIZONTAL
1 1/2" = 10' VERTICAL

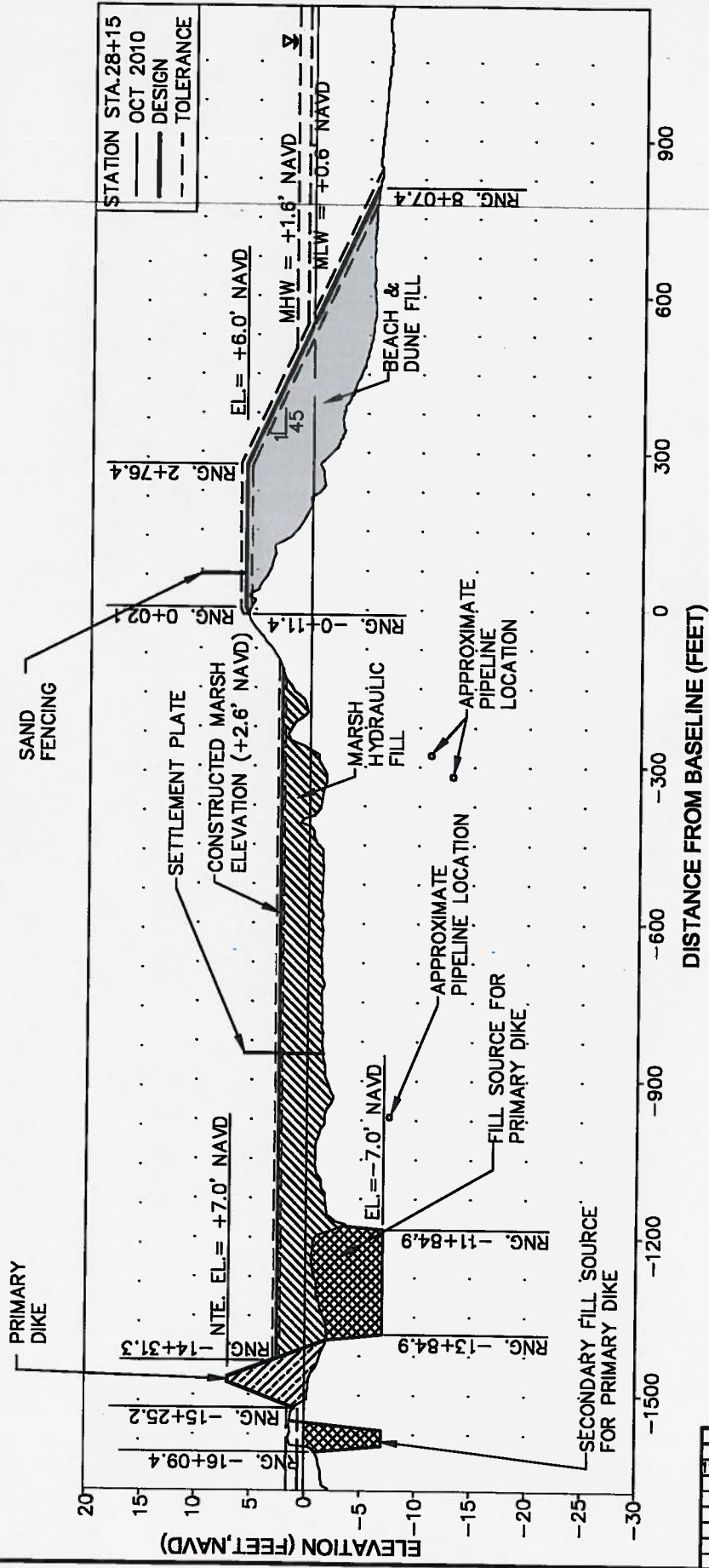
NOTE:
1. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:

 OVERBURDEN DISPOSAL

REVISIONS		
DATE	BY	DESCRIPTION
2/10/05	DNR	NW SANDY POINT BA REMOVED
6/10/07	TDM	REVISED CUTS PER NOAA

		COASTAL PLANNING & ENGINEERING, INC. 2481 NW BOCA RATON BOULEVARD BOCA RATON, FLORIDA 33433 PH: (561) 391-0000 FAX: (561) 391-0700 C.O.A. # 4628 C.O.A. I.A. 6261
DATE:	11/17/03	TITLE:
BY:	JRC	PELICAN ISLAND RESTORATION (BA-38-1) CWPPRA PROJECT SANDY POINT SE DISPOSAL AREA CROSS SECTION
SHEET:	7261.31	
	17	



STATION STA.28+15
 OCT 2010
 DESIGN
 TOLERANCE

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

- LEGEND:**
- MARSH FILL
 - BEACH & DUNE FILL
 - PRIMARY DIKE
 - FILL SOURCE FOR PRIMARY DIKE

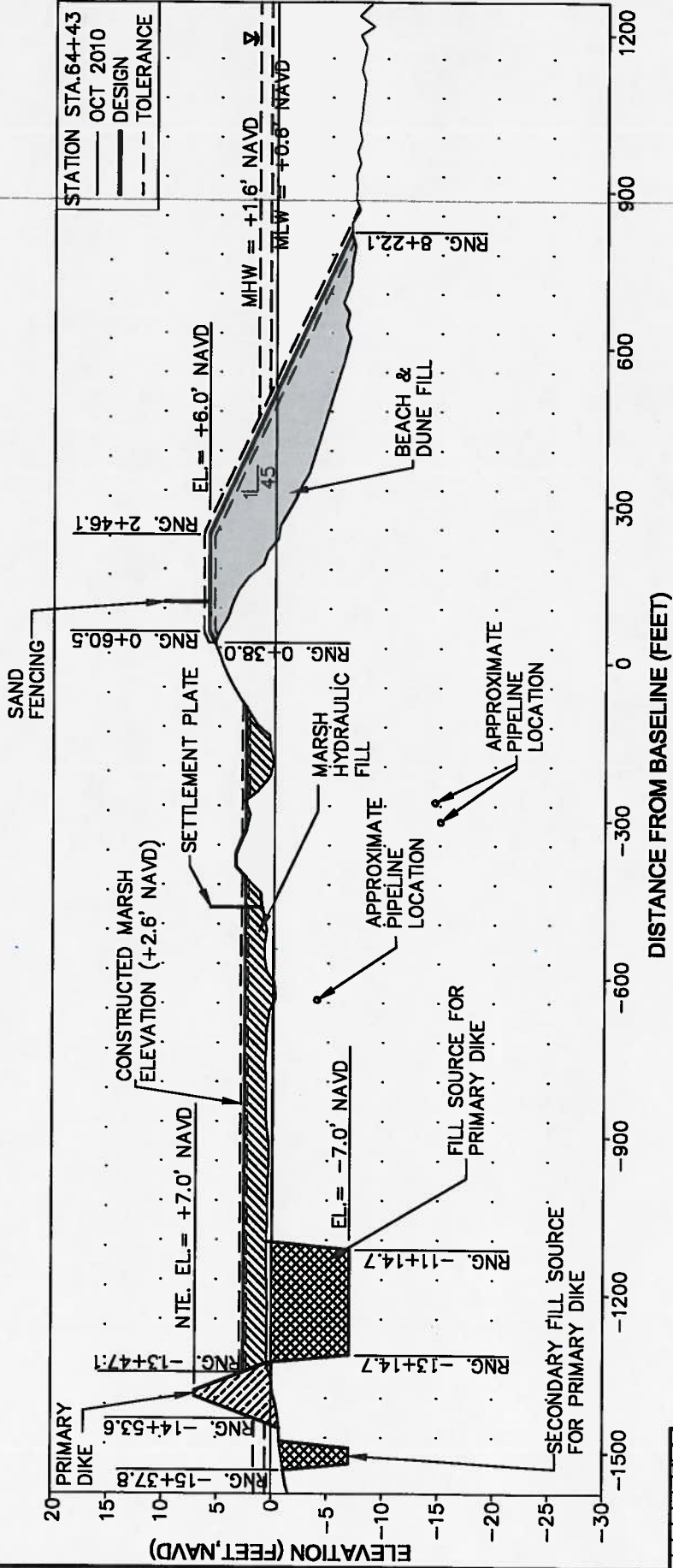
REVISIONS		
DATE	BY	DESCRIPTION
11/2/10	GT	ADD SECONDARY FILL REVISED FILL TEMPLATE

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPRA PROJECT
 FILL CROSS SECTIONS**

COASTAL PLANNING & ENGINEERING, INC.
 2401 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33081
 P.O. BOX 34400
 FALMOUTH, FLORIDA 34909
 U.S.A. TEL: 888
 C.O.A. TEL: 561



DATE: 11/5/07
BY: TM
COMM NO.: 7261.31
SHEET: 18

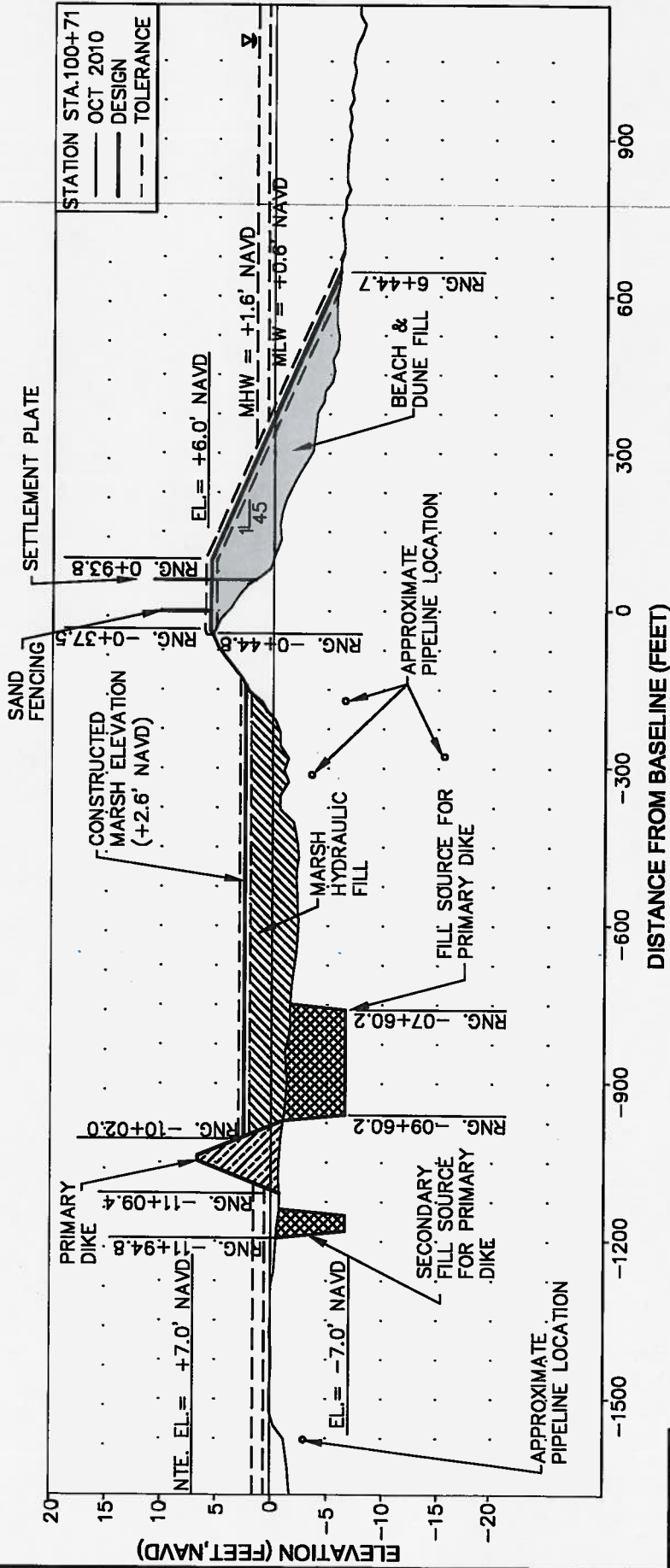


**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPRA PROJECT
 FILL CROSS SECTIONS**

COASTAL PLANNING & ENGINEERING, INC.
 3601 N.W. 30th Avenue
 Boca Raton, Florida 33431
 C.O.A. # 0000
 C.S.A. # 0000
 www.CoastalPlanning.com



DATE: 11/5/07
BY: TM
COMM NO.: 7261.31
SHEET: 19



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

REVISIONS		
DATE	BY	DESCRIPTION
11/2/10	GT	ADD SECONDARY FILL REVISED FILL TEMPLATE
12/8/10	AW	REVISED CROSS SECTION TO AVOID LAND OWNER.

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPRA PROJECT
 FILL CROSS SECTIONS**

COASTAL PLANNING & ENGINEERING, INC.
 3841 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33421
 www.CoastalPlanning.com
 PH (954) 364-8100
 FAX (954) 364-8116
 C.O.G. P.L. #009
 C.O.A. I.A. #001



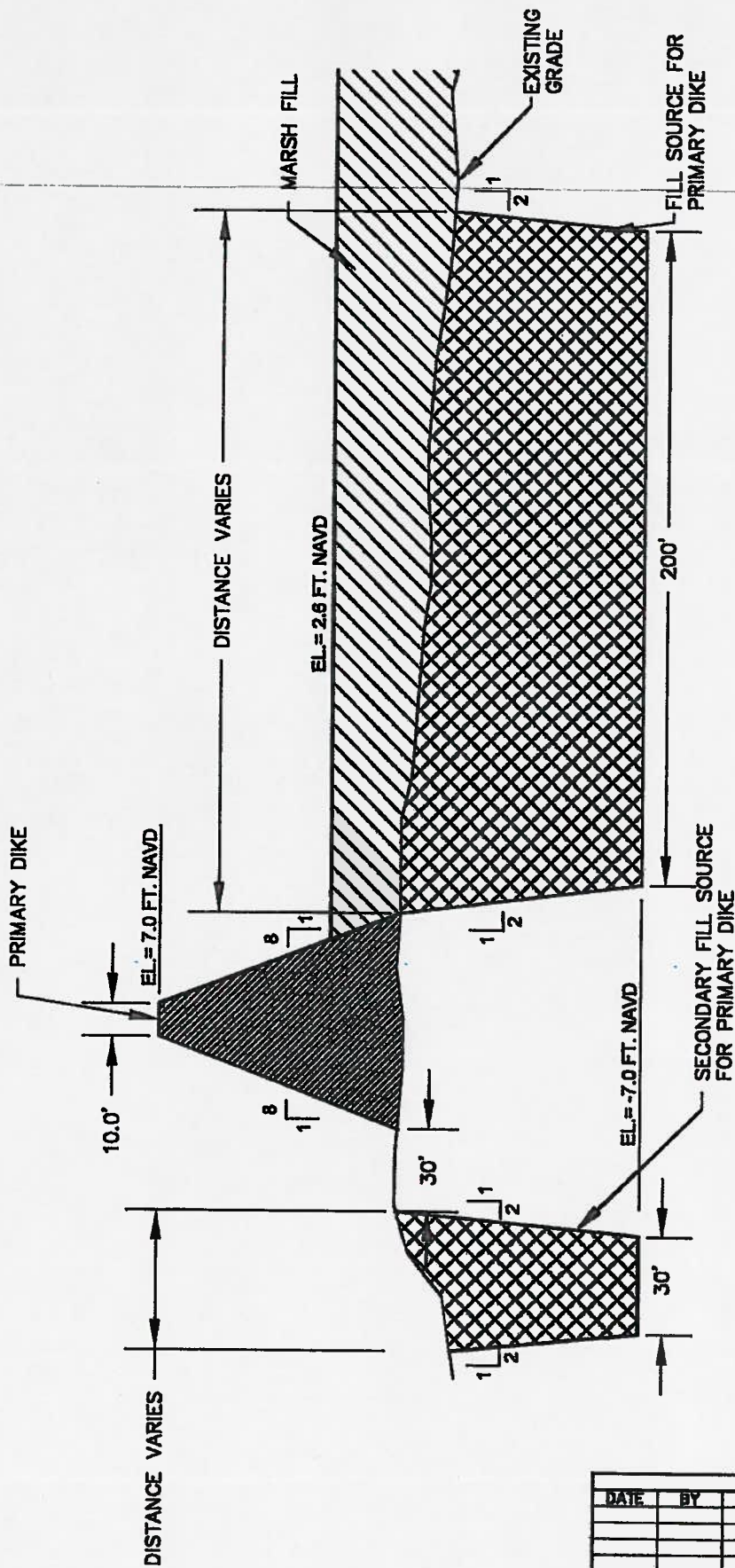
DATE:
 11/5/07

BY:
 TM

COMM NO.:
 7261.31

SHEET:
 20

TYPICAL FILL CROSS SECTION DETAIL



LEGEND:

-  MARSH FILL
-  PRIMARY DIKE
-  FILL SOURCE FOR PRIMARY DIKE

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS		RG
DATE	BY	DESCRIPTION

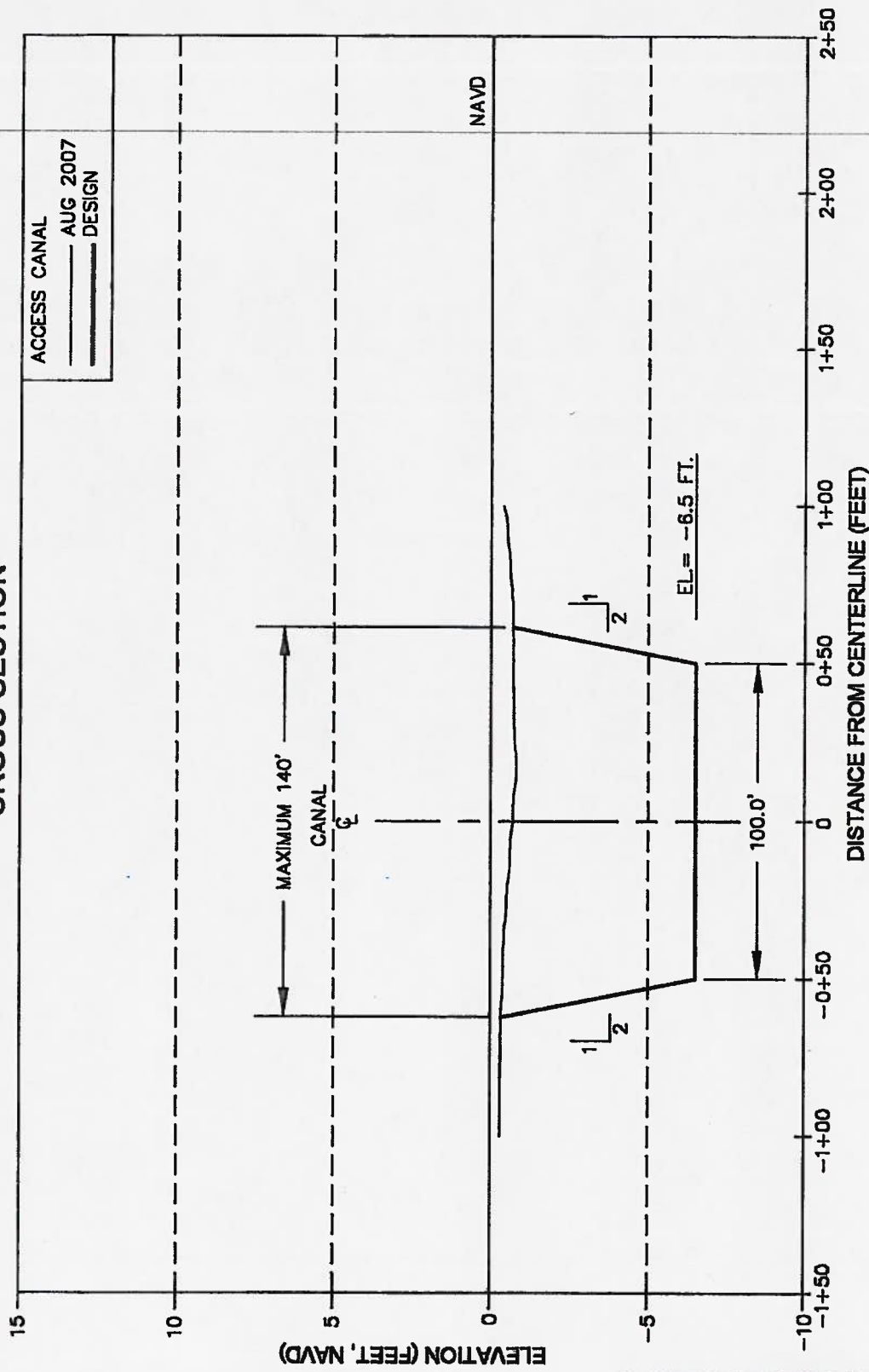
DATE: 11/2/10
 COMM NO.: 7261.31
 SHEET: 21

TITLE: PELICAN ISLAND RESTORATION (BA-38-1) CWPRA PROJECT
 TYPICAL FILL CROSS SECTION DETAIL

COASTAL PLANNING & ENGINEERING, INC.
 2401 N.W. 3200A BAYVIEW BOULEVARD
 BOCA RATON, FLORIDA 33431
 PH: (561) 994-6292
 FAX: (561) 994-6248
 C.O.A. # 11-0002
 C.O.A. I.L. # 0001
www.CoastalPlanning.com



TYPICAL ACCESS CANAL CROSS SECTION



SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

**PELICAN ISLAND RESTORATION
(BA-38-1) CWP/PRA PROJECT
ACCESS CANAL CROSS SECTION**

COASTAL PLANNING & ENGINEERING, INC.
 5401 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33497
 P.A. (954) 394-4922
 F.A. (954) 394-8116
 C.O.A. FL. #0028
 C.S.A. LA. #0028

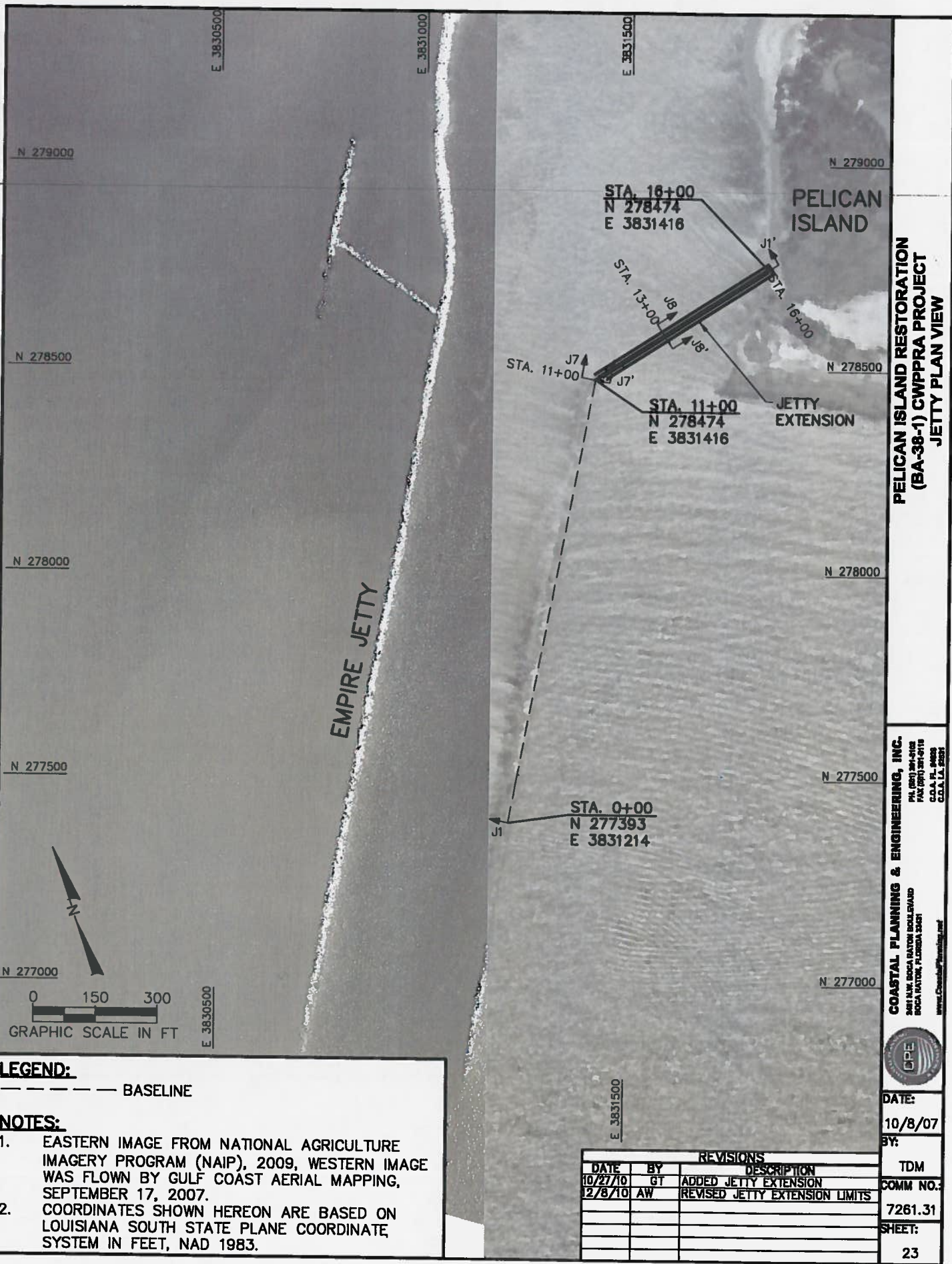
DATE:
11/5/07



REVISIONS	
DATE	DESCRIPTION
11/2/10	GT REVISED CANAL WIDTH

TM
COMM NO.
 7261.31
SHEET:
 22

H:\Louisiana\726131\Permits\PELICAN JETTY SPUR PV.dwg - Apr 14, 2011 @ 11:16am - hvcliner



**PELICAN ISLAND RESTORATION
(BA-38-1) CWP/PRA PROJECT
JETTY PLAN VIEW**

COASTAL PLANNING & ENGINEERING, INC.
PH. (850) 561-0100
FAX (850) 561-0110
C.O.A. FL. #4600
C.O.A. LA. #2001
www.CoastalPlanning.com



DATE:
10/8/07

BY:
TDM

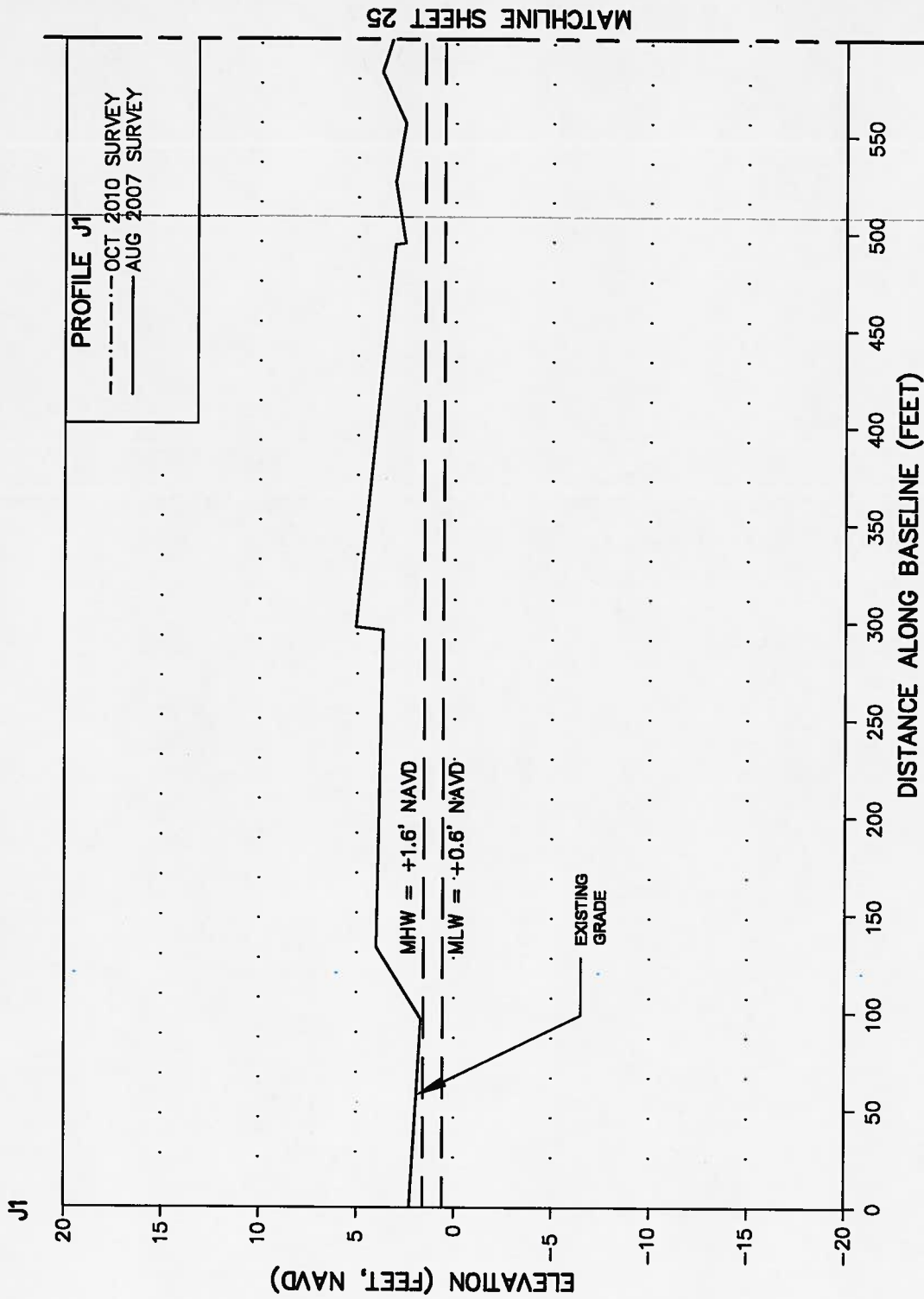
COMM NO.:
7261.31

SHEET:
23

REVISIONS		
DATE	BY	DESCRIPTION
10/27/10	GT	ADDED JETTY EXTENSION
12/8/10	AW	REVISED JETTY EXTENSION LIMITS

LEGEND:
--- BASELINE

- NOTES:**
- EASTERN IMAGE FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009, WESTERN IMAGE WAS FLOWN BY GULF COAST AERIAL MAPPING, SEPTEMBER 17, 2007.
 - COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.



NOTE:

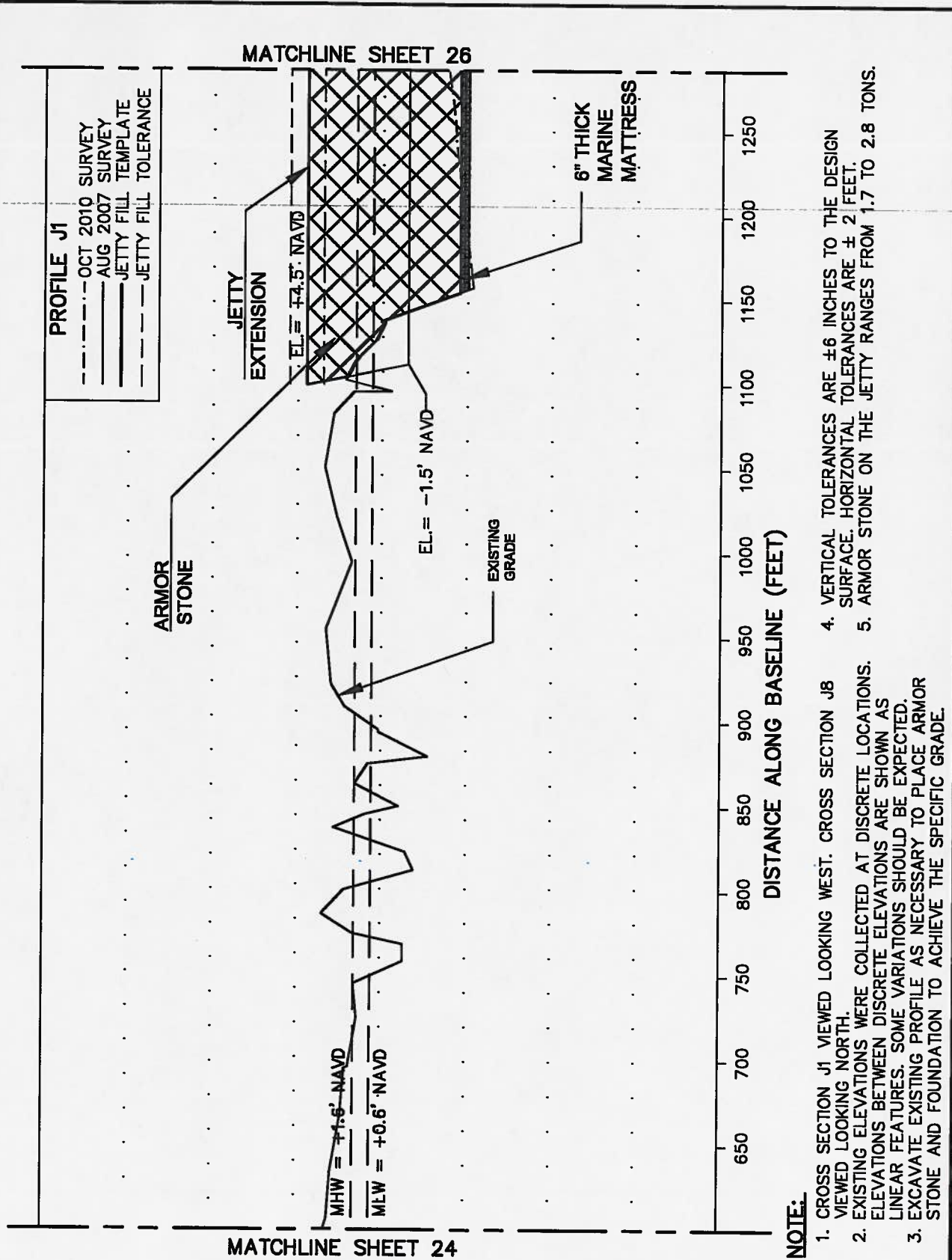
1. CROSS SECTION J1 VIEWED LOOKING WEST. CROSS SECTION J8 VIEWED LOOKING NORTH.
2. EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.

REVISIONS		
DATE	BY	DESCRIPTION
12/8/10	AW	REVISED NOTE 5.

**PELICAN ISLAND RESTORATION
(BA-38-1) CWP/PRA PROJECT
JETTY CROSS SECTIONS**

COASTAL PLANNING & ENGINEERING, INC.
2461 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33433
 PH: (561) 364-8122
 FAX: (561) 364-8115
 C.O.A. #L-00000
 C.O.A. LA 0001

DATE: 10/8/07
BY: TDM
COMM NO.: 7261.31
SHEET: 24



PROFILE J1
 - - - - - OCT 2010 SURVEY
 _____ AUG 2007 SURVEY
 _____ JETTY FILL TEMPLATE
 - - - - - JETTY FILL TOLERANCE

MATCHLINE SHEET 26

MATCHLINE SHEET 24

DISTANCE ALONG BASELINE (FEET)

NOTE:

- CROSS SECTION J1 VIEWED LOOKING WEST. CROSS SECTION J8 VIEWED LOOKING NORTH.
- EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.
- EXCAVATE EXISTING PROFILE AS NECESSARY TO PLACE ARMOR STONE AND FOUNDATION TO ACHIEVE THE SPECIFIC GRADE.
- VERTICAL TOLERANCES ARE ±6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ± 2 FEET.
- ARMOR STONE ON THE JETTY RANGES FROM 1.7 TO 2.8 TONS.

REVISIONS		
DATE	BY	DESCRIPTION
11/2/10	GT	ADDED JETTY EXTENSION
12/8/10	AW	REVISED NOTE 5.

COASTAL PLANNING & ENGINEERING, INC.
 3461 N.W. 5004 PATTON BOULEVARD
 BOCA RATON, FLORIDA 33433
 PH: (561) 384-4122
 FAX: (561) 384-4115
 C.O.A. P.L. #0003
 C.O.A. I.A. #001
 www.CoastalPlanning.com

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWPBRA PROJECT
 JETTY CROSS SECTIONS**

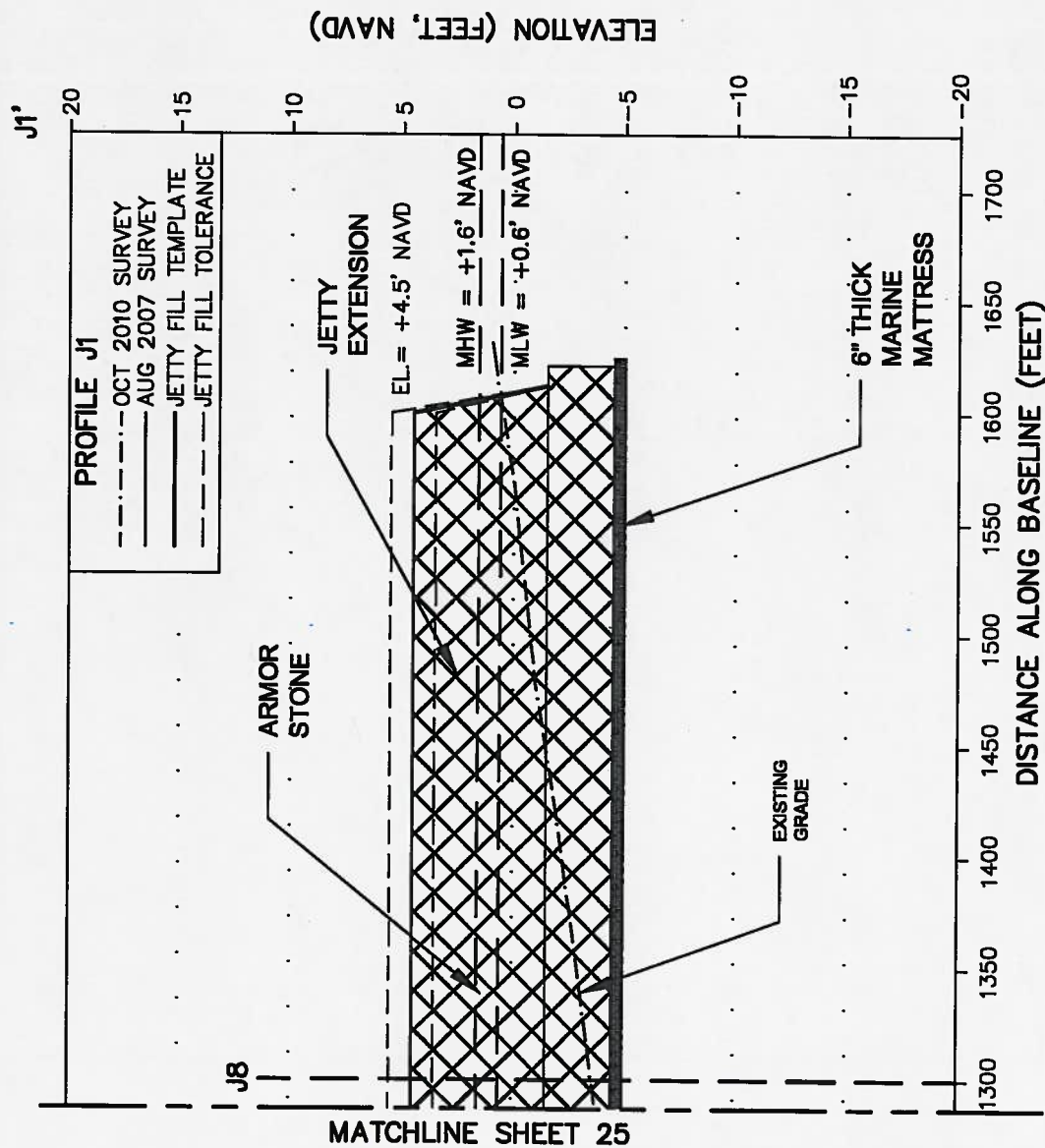
TITLE

DATE: 10/8/07

BY: TDM

COMM NO.: 7261.31

SHEET: 25



NOTE:

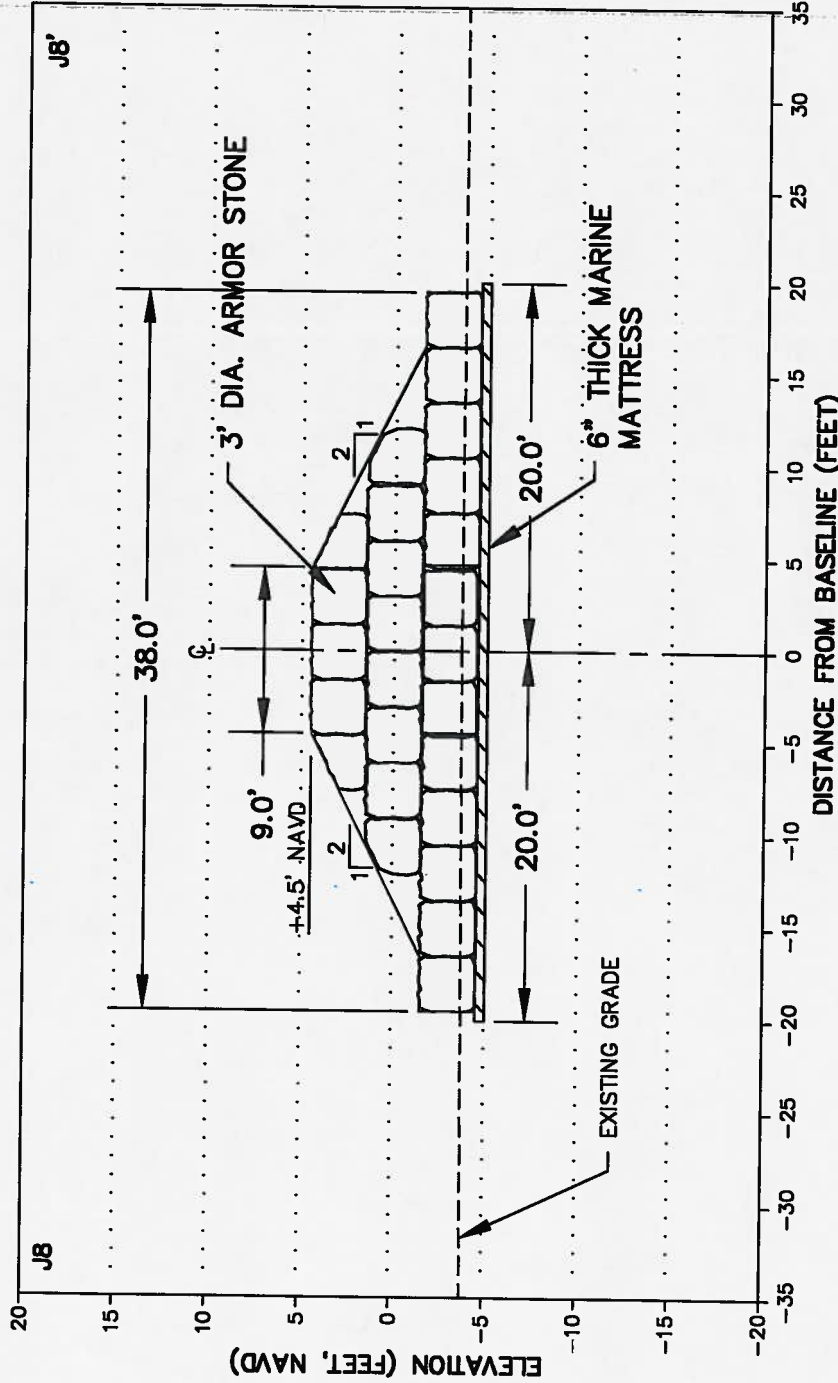
1. CROSS SECTION J1 VIEWED LOOKING WEST. CROSS SECTION J8 VIEWED LOOKING NORTH.
2. EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.
3. EXCAVATE EXISTING PROFILE AS NECESSARY TO PLACE ARMOR STONE AND FOUNDATION TO ACHIEVE THE SPECIFIC GRADE.
4. VERTICAL TOLERANCES ARE ±6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ± 2 FEET.
5. ARMOR STONE ON THE JETTY RANGES FROM 1.7 TO 2.8 TONS.

REVISIONS		
DATE	BY	DESCRIPTION
11/2/10	GT	ADDED JETTY EXTENSION
12/8/10	AW	REVISED NOTE 5.

DATE: 10/8/07
 BY: TDM
 COMM NO.: 7261.31
 SHEET: 26

**PELICAN ISLAND RESTORATION
 (BA-38-1) CWP/PRA PROJECT
 JETTY CROSS SECTIONS**

COASTAL PLANNING & ENGINEERING, INC.
 2841 N.W. BOCA RATON BOULEVARD
 BOCA RATON, FLORIDA 33431
 www.CoastalPE.com
 P: (561) 394-0033
 F: (561) 394-4718
 C.O.A. P.L. #0038
 C.S.A. L.A. #001



NOTES:

- CROSS SECTION VIEWED LOOKING NORTHEAST.
- VERTICAL TOLERANCES ARE ± 6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ± 2 FEET.
- BOULDERS DRAWN IN CROSS SECTION ARE FOR PICTORIAL PURPOSES ONLY. CONTRACTOR SHALL UTILIZE THE MATERIAL AND TOLERANCES SPECIFIED TO ACHIEVE THE LINES AND GRADES OF THE DESIGN.
- ARMOR STONE ON THE JETTY RANGES FROM 1.7 TO 2.8 TONS.

REVISIONS		
DATE	BY	DESCRIPTION
12/8/10	AW	REVISED NOTE 4.

DATE: 10/26/10
 BY: AMB
 COMM NO.: 7261.38
 SHEET: 27

COASTAL PLANNING & ENGINEERING, INC.
 5601 N.W. 36TH AVENUE
 BOCA RATON, FL 33433
 WWW.COASTALPLANNING.COM
 P.O. (954) 991-0000
 F.O.C. (954) 351-4710
 C.O.A. FL. 0000

PELICAN ISLAND RESTORATION PROJECT
BA-38-1
JETTY EXTENSION TYPICAL CROSS SECTION