



# Joint Permit Application

## For Work Within the Louisiana Coastal Zone

**What is the purpose of the Joint Permit Application?**

This Joint Permit Application was developed to facilitate the state and federal permit application process administered by the Louisiana Department of Natural Resources/Coastal Management Division (CMD) and the U.S. Army Corps of Engineers (COE) for work within the Louisiana Coastal Zone.

To simplify the permit application process, the Joint Permit Application is a multi-purpose application. It may be used to apply for a Coastal Use Permit (CUP) and/or a Department of the Army Permit under Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act. This application may also be used to apply for a Solicitation of Views (SOV) or a CMD Request for Determination (RFD). Review the instructions below, then proceed to Step 1.

**Instructions**

**How do I complete the Joint Permit Application?**

**There are two parts to the Joint Permit Application package:**

1. Joint Permit Application, and
2. Maps and Drawings.

**An accurate/complete application is required for processing; inaccurate/missing information may delay processing. Follow the instructions below to complete the application. Specific instructions are provided with each Step.**

- Type or print clearly using black or blue ink;
- Steps 1 through 16 must be completed; write "N/A" if information does not apply to your proposed project. It is not necessary to write "N/A" on the Steps that you have been asked to skip;
- Although you may not be required to complete each Step, it is important to check the box at the end of each Step to track your progress and ensure that no Step has been overlooked.
- When additional space is needed, include an 8½ x 11 sheet of paper identifying the Step number.

**When you have questions or need assistance in completing the application package:**

- Refer to the "Glossary of Terms" (See page 10.);
- Refer to "Frequently Asked Questions" (See page 12.);
- Contact the Coastal Management Division at 1-800-267-4019 or 225-342-7591; or
- Contact your local coastal parish program (See page 11.). ([LCP Website](#))

Check this box when you have read the instructions; then proceed to Step 1.

**Step 1 of 16**

**Complete the following information about the applicant.**

**Who is the applicant for the proposed project?**

*Note: Applicants may be either the landowner, person or company that is responsible for the proposed project.*

**Applicant/Company Name:** \_\_\_\_\_

Individual Person or Corporation/Company

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_

Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

**Contact Information:**

Name of Contact Person (not the agent) \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Area Code Daytime Telephone Number \_\_\_\_\_

Area Code Fax Number \_\_\_\_\_

Check this box when you have completed Step 1; then proceed to Step 2.

**Step 2 of 16**

**Is an agent being used for the proposed project?**

*Note: An agent is not required.*

**Is an agent being used for the proposed project?**

- NO** (If NO, proceed to Step 3.)
- YES** (If YES, complete the following information.)

**Agent Company Name:**

Corporation/Company \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Contact Information:**

Name of Contact Person \_\_\_\_\_ E-Mail Address \_\_\_\_\_

Area Code Daytime Telephone Number \_\_\_\_\_ Area Code Fax Number \_\_\_\_\_

**Check this box when you have completed Step 2; then proceed to Step 3.**

**Step 3 of 16**

**What type of permit or action would you like to request?**

*Note: You may need the approval of other federal, state or local agencies for your project.*

*Note: For questions concerning the CUP, SOV or RFD, call CMD at:  
• 1-800-267-4019  
or  
• 225-342-7591*

**Check  the appropriate box(es) to indicate the type of permit or action that you would like to request.**

**Coastal Use Permit (CUP), Clean Water Act Permit (Section 404), Rivers and Harbors Act (Section 10)**

The purpose of the CUP is to ensure that any activity affecting the Coastal Zone is completed in a manner that is consistent with the Louisiana Coastal Resource Program.

The purpose of the Department of the Army permit program under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act is to review and evaluate proposals for dredging, filling, and/or placement of structures in waterways and wetlands in order to determine whether a permit should be granted or denied based on expected impacts to the overall public interest.

**Solicitation of Views (SOV)**

If you wish to find out if your project is in the Coastal Zone or if you wish to determine if there are special features of the area that may impact your project design or the length of time it might take to obtain a permit, you may request a SOV. No application fee is assessed for SOV requests. The following Steps must be completed to obtain an informal determination.

- Step 1, Step 2, Step 6, Step 14, Step 16; and
- Step 13 - (Vicinity plat showing project location and extent is required; cross section and plan views are useful, if available.)

**Request for Determination (RFD) - CMD only**

If you wish to obtain a formal determination as to whether or not a CUP would be required for a particular activity, you may submit a RFD. The appropriate application fee will be assessed for RFD requests. The following Steps must be completed to obtain a RFD.

- Step 1, Step 2, Step 5, Step 6, Step 8, Step 10, Step 14, Step 16; and;
- Step 13 - (Vicinity plat showing project location and extent is required; cross section and plan views are useful, if available.)

**Check this box when you have completed Step 3; then proceed to Step 4.**

**Step 4 of 16**

**Have you participated in a Pre-Application or Geological Review Meeting or obtained a wetland determination?**

*Note: To schedule a Pre-Application and/or a Geological Review Meeting, call CMD at 1-800-267-4019.*

*Note: To apply for a wetland determination, call the COE at 504-862-1627.*

**a. Have you participated in a Pre-Application or Geological Review Meeting for the proposed project?**

- NO** (If NO, proceed to Step 4b.)
- YES** (If YES, complete the following information.)

Date meeting was held: \_\_\_\_/\_\_\_\_/\_\_\_\_

Attendees: \_\_\_\_\_  
Individual or Company Representative      CMD Representative      COE Representative

**b. Have you obtained an official wetland determination from the COE for the project site?**

- NO** (If NO, proceed to Step 4c.)
- YES** (If YES, include a copy with this application.)

**c. Is this application a mitigation plan for another CUP?**

- NO** (If NO, proceed to Step 5.)
- YES** (If YES, identify the permit number of the project requiring mitigation.)

Permit Number: \_\_\_\_\_

**Check this box when you have completed Step 4; then proceed to Step 5.**

**Continue to page 3 for Step 5.** 



## Joint Permit Application *Continued (page 3 of 12)*

### Step 5 of 16

**What permits/certifications have you previously requested for the proposed project?**

*Note: Additional sheets may be required for agency name, permit number and status information.*

**a. Is this application a change to an existing permit?**

- NO** (If NO, proceed to Step 5b.)  
 **YES** (If YES, identify the existing permit number.)

Permit Number: \_\_\_\_\_

**b. Have you *previously* applied for a permit or emergency authorization for all or any part of the proposed project? See Step 5 in the attached for more info. on the NOD-20.**

- NO** (If NO, proceed to Step 6.)  
 **YES** (If YES, complete the following information for the proposed project.)

	Agency Name	Permit Number	Decision Status			Decision Date
			Approved	Denied	Pending	
CMD	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
COE	_____	MVN 2010-1066-ETT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___
Other	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___

Check this box when you have completed Step 5; then proceed to Step 6.

### Step 6 of 16

**Where will the proposed project be located?**

*Note: The following websites may provide assistance in completing the latitude/longitude and directions:*

- Sonris on CMD website
- MapQuest.com
- Topozone.com

**Complete the following information to identify the exact location of the proposed project.**

**a. Physical Location:** Plaquemines & St. Bernard Parishes  
 Parish \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_  
 Street Address (If known) \_\_\_\_\_

**b. Latitude and Longitude:** See attached Permit Drawings.  
 Must be included in all applications. Latitude: \_\_\_\_\_ Degrees \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds Longitude: \_\_\_\_\_ Degrees \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds

**c. Section, Township, Range:** (if available)  
 Section # \_\_\_\_\_ Township # (Specify North or South.) \_\_\_\_\_ Range # (Specify East or West.) \_\_\_\_\_  
 Section # \_\_\_\_\_ Township # (Specify North or South.) \_\_\_\_\_ Range # (Specify East or West.) \_\_\_\_\_

**d. Lot #, Tract #, Parcel # or Subdivision Name:** (if known)  
 Lot # \_\_\_\_\_ Parcel # \_\_\_\_\_  
 Tract # \_\_\_\_\_ Subdivision Name \_\_\_\_\_

**e. Site Directions:** Directions to the proposed project site must be identified in order to process the application.  
**Example:** START - I-10 toward Baton Rouge. Exit #153 toward Port Allen. US-190 West/LA-1 North ramp. RIGHT onto LA-987 1/Bridge Side Road. RIGHT onto LA-986/North River Road to Popular Grove Plantation directly behind guest parking lot in rear. - END

Check this box when you have completed Step 6; then proceed to Step 7.

**Continue to page 4 for Step 7.**

**Step 7 of 16**

**Who are the adjacent landowners?**

*Note: Adjacent landowner information is usually available through the office of the tax assessor in the parish where the project is to be developed.*

*Note: Additional information may be included in the area provided on page 12. Also, extra sheets may be required if there are more than eight adjacent landowners.*

Complete the following information to notify adjacent landowners whose property adjoins the proposed project site.

See Step 7 in the Supplementary Info. attached.

**Adjacent Landowner #1:**

Name of Adjacent Landowner \_\_\_\_\_

**Mailing Address:**

Address \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Adjacent Landowner #2:**

Name of Adjacent Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Adjacent Landowner #3:**

Name of Adjacent Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Adjacent Landowner #4:**

Name of Adjacent Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_

City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Check this box when you have completed Step 7; then proceed to Step 8.

**Step 8 of 16**

**What is the purpose of the proposed project?**

*Note: We are required to review the justifications and needs for your project. Providing detailed information at the time of application may expedite processing of your proposal.*

*Note: Additional sheets may be required to explain why the proposed project is needed.*

Complete the following information to identify the purpose and need for the proposed project.

a. **Project Name and/or Title:** \_\_\_\_\_

b. **Project Type:** (Check  the appropriate box. See the "Glossary" on page 10 for the definitions of terms.)

Non-Residential

Residential

c. Check  the appropriate box(es) to identify what will be done for the proposed project.

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Bridge/Road                   | <input type="checkbox"/> Home site/Driveway   | <input type="checkbox"/> Pipeline/Flow line         | <input type="checkbox"/> Rip rap/Erosion control |
| <input type="checkbox"/> Bulkhead/Fill                 | <input type="checkbox"/> Levee construction   | <input type="checkbox"/> Plug/Abandon               | <input type="checkbox"/> Site clearance          |
| <input type="checkbox"/> Drainage improvements         | <input type="checkbox"/> Maintenance dredging | <input type="checkbox"/> Production barge/Structure | <input type="checkbox"/> Subdivision             |
| <input type="checkbox"/> Drill barge/Structure         | <input type="checkbox"/> Other structures     | <input type="checkbox"/> Prop washing               | <input type="checkbox"/> Vegetative plantings    |
| <input type="checkbox"/> Drill site                    | <input type="checkbox"/> Pilings              | <input type="checkbox"/> Remove structures          | <input type="checkbox"/> Wharf/Pier/Boathouse    |
| <input type="checkbox"/> Other (Please specify.) _____ |   |   |  |

d. **Why is the proposed project needed?**

Check this box when you have completed Step 8; then proceed to Step 9.

**Continue to page 5 for Step 9.** 



## Joint Permit Application *Continued (page 5 of 12)*

### Step 9 of 16

#### What is the status of the proposed project?

*Note: Show and identify planned, in progress, completed work and dimensions for excavations and fill on the Plan View and Cross Section Drawings.*

**Complete the following information to indicate the start/end dates and the current status of the proposed project.**

a. Proposed project start date: \_\_\_\_/\_\_\_\_/\_\_\_\_ Proposed project completion date: \_\_\_\_/\_\_\_\_/\_\_\_\_

b. Is any of the project work in progress? See Step 9 in the Supp. Info. attached.

- NO (If NO, proceed to Step 9c.)  
 YES (If YES, show and identify the work in progress on the Plan View and Cross Section Drawings.)

c. Is any of the project work complete?

- NO (If NO, proceed to Step 10.)  
 YES (If YES, show and identify the work completed on the Plan View and Cross Section Drawings.)

Check this box when you have completed Step 9; then proceed to Step 10.

### Step 10 of 16

#### How would you describe the proposed project?

*Note: To apply for a wetland determination, call the COE at 504-862-1627.*

*Note: Information provided in this Step must be consistent with Maps and Drawings.*

**Complete the following information to describe structures, materials and methods for the proposed project.**

a. **Excavations:** (Check  the appropriate box(es) and indicate excavations in cubic yards and acres using the formulas below.)

Cubic yards are determined by using this formula. (Length (ft.) X Width (ft.) X Depth (ft.) divided by 27 = Cubic Yards)

**Example:** 25 ft. X 25 ft. X 5 ft. divided by 27 = 115.7 Cubic Yards

Acres are determined by using this formula. (Length (ft.) X Width (ft.) divided by 43,560 = Acres)

**Example:** 250 ft. X 250 ft. divided by 43,560 = 1.43 Acres See Step 10 in the Supplementary Info. attached for Proj. Description.

- |  |  |
|--|--|
| <input type="checkbox"/> Vegetated Waterbottoms - _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div>                  | <input type="checkbox"/> Wetlands - _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div>      |
| <input type="checkbox"/> Non-Vegetated Waterbottoms - <u>40.1M</u> _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div> | <input type="checkbox"/> Non-Wet Areas - _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div> |
- Quantity available.

b. **Fill Areas:** (Check  the appropriate box(es) and indicate fill areas in cubic yards and acres using the formulas in Step 10a.)

- |  |   |
|--|---|
| <input type="checkbox"/> Vegetated Waterbottoms - _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div>                                  | <input type="checkbox"/> Wetlands - _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div>                   |
| <input type="checkbox"/> Non-Vegetated Waterbottoms - <u>17.72M</u> <u>2,399.9</u> _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div> | <input type="checkbox"/> Non-Wet Areas - <u>690.7</u> _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> <span>Acres</span> </div> |
- All reaches except W-9 & W-10. W-9 & W-10 only.

c. **What fill materials will be used for the proposed project?**

(Check  the appropriate box(es) and indicate the cubic yards for each type of fill material.)

- |   |  |
|---|--|
| <input type="checkbox"/> Concrete _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div>                          | <input type="checkbox"/> Rock (rip/rap) _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div> |
| <input type="checkbox"/> Crushed stone or gravel _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div>           | <input type="checkbox"/> Sand _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div>           |
| <input type="checkbox"/> Native material (clay, mud, soil) _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div> | <input type="checkbox"/> Topsoil/Dirt _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div>   |
| <input type="checkbox"/> Other (Please specify.) _____<br><div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>Cubic Yards</span> </div>           |  |

**Continue to page 6 for more of Step 10.**

**Step 10 of 16**  
**continued**

**How would you describe the proposed project?**

*Note: For any equipment used, show the access route and construction right of way on the Maps and Drawings.*

**d. What equipment will be used for the proposed project?** (Check  the appropriate box(es).)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Airboat                       | <input type="checkbox"/> Bulldozer/Grader        | <input type="checkbox"/> Marsh buggy                       |
| <input type="checkbox"/> Backhoe                       | <input type="checkbox"/> Dragline/Excavator      | <input type="checkbox"/> Other tracked or wheeled vehicles |
| <input type="checkbox"/> Barge mounted bucket dredge   | <input type="checkbox"/> Handjet                 | <input type="checkbox"/> Self propelled pipe laying barge  |
| <input type="checkbox"/> Barge mounted drilling rig    | <input type="checkbox"/> Land based drilling rig | <input type="checkbox"/> Tugboat                           |
| <input type="checkbox"/> Other (Please specify.) _____ |  |  |
| Cutterhead & Hopper Dredges, Scows, Spider Barge       |  |  |

Check this box when you have completed Step 10; then proceed to Step 11.

**Step 11 of 16**

**What impact will the proposed project have?**

*Note: You will be notified by CMD if a field investigation is required to determine if the proposed project will impact wetlands.*

*Note: Additional sheets may be required to adequately respond to 11a and/or 11b.*

*Note: Providing detailed information at the time of application may expedite processing of your proposal.*

**a. What alternative locations, methods and access routes were considered to avoid impact to wetlands and/or waterbottoms?**

**b. What efforts were made to minimize impact to wetlands and/or waterbottoms?**

Check this box when you have completed Step 11; then proceed to Step 12.

**Step 12 of 16**

**What are the requirements for notification of landowners of the proposed project site?**

*Note: CMD and COE both have mitigation requirements under different laws, rules and regulations; therefore, specific agency requirements may vary.*

**a. Are you applying for a Coastal Use Permit?**

- NO** (If NO, proceed to Step 13.)  
 **YES** (If YES, read the following information.)

**Requirements for Notification of Landowners.**

It is the responsibility of the applicant to notify the landowner(s) of the property about this proposed project. Notification must include providing each impacted landowner with a copy of the permit application (form and plats) at the time the application is submitted to the Coastal Management Division.

While this is a legal requirement to ensure that property owners are aware of proposals which might impact their land, it also serves as a proactive measure to initiate communication between the applicant and the landowner(s), especially when mitigation might be necessary. Since mitigation can be a lengthy process, taking proactive steps early in the process may significantly reduce the time necessary to receive an authorization.

**Continue to page 7 for more of Step 12.** 



## Joint Permit Application *Continued (page 7 of 12)*

### Step 12 of 16 continued

**What are the requirements for notification of landowners of the proposed project site?**

*Note: If a property has multiple owners with undivided interest in the property, each person owning an interest is considered to be a landowner and must be notified.*

*Note: Additional sheets may be required if there are more than two landowners.*

*Note: Compensatory mitigation is not a monetary settlement to be used at the discretion of the landowner(s).*

*Note: A copy of the "Landowner Compensatory Mitigation Request/Waiver" form is included with this application. To obtain additional copies, visit the CMD website or call:*

- 1-800-267-4019
- or
- 225-342-7591

**b. Are you the sole owner of the property on which the proposed activity is to occur?**

- YES** (If YES, proceed to Step 13.)  
 **NO** (If NO, follow the instructions below.)

**Check  the appropriate box(es) and complete the landowner information to attest to CMD that a copy of this application has been sent to all landowners whose property will be impacted by the project.**

- The applicant is an owner of the property on which the proposed described activity is to occur.  
 The applicant has made every reasonable effort to determine the identity and current address of the owner(s) of the land on which the proposed described activity is to occur, which included, if necessary, a search of the public records of the parish in which the proposed activity is to occur.  
 The applicant hereby attests that a copy of the application has been distributed to the following landowners.  
 See Step 12 in the Supplementary Info. attached for a list

**Landowner #1:** of landowners associated with berm reaches W-9 and W-10.  
 Name of Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Landowner #2:**

Name of Landowner \_\_\_\_\_

**Mailing Address:**

Street Address or P.O. Box \_\_\_\_\_ Unit/Apartment # \_\_\_\_\_  
 City \_\_\_\_\_ Parish \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**c. Does the proposed activity present potential impacts to vegetated wetlands?**

- NO** (If NO, proceed to Step 13.)  
 **YES** (If YES, read the information below; submit the Landowner Compensatory Mitigation Request/Waiver.)  
 **NOT SURE** (If NOT SURE, read the information below; submit the Landowner Compensatory Mitigation Request/Waiver.)

**Landowner Rights**

- The affected landowner(s) whose property may be impacted by the proposed project has(have) the option of requesting that compensatory mitigation be done on their property.
- Once CMD determines that mitigation is required, they will notify the applicant and all affected landowners of the extent and type of habitat impacted. The landowner(s) will be given (30) thirty days to formally request or waive their mitigation option. (This can cause substantial delays in processing of the application.)

**Applicant Responsibilities**

- Coordinate with the affected landowner(s) to develop a conceptual compensatory mitigation plan. This plan should be designed to offset the adverse impacts to vegetated wetlands which will occur from the proposed project. (This can also cause substantial delays in processing of the application.)
- To avoid delays, it is recommended that, prior to sending the application to CMD, you contact affected landowner(s) to:
  - Inform them of possible wetland impacts and discuss their compensatory mitigation rights; and
  - Ask them to indicate their intentions regarding compensatory mitigation on the form.
- Submit the Landowner Compensatory Mitigation Request/Waiver form along with your application.

Check this box when you have completed Step 12; then proceed to Step 13.

**Continue to page 8 for Step 13.**

Step 13 of 16

Why are Maps and Drawings required to obtain a permit?

Note: The following websites may provide assistance in completing the Vicinity Map:

- Sonris on CMD website
• MapQuest.com
• Topozone.com

Note: For additional assistance with specific requirements, refer to the samples provided in this application package.



Quality Maps and Drawings are required to process the Joint Permit Application and for Public Notice. They must visually reflect what will be done in the proposed project and are key to the overall evaluation.

The following Maps and Drawings must be submitted with the Joint Permit Application and must show both existing and proposed conditions.

- Vicinity Map - Illustrates the location of the proposed project relative to surrounding areas;
• Plan View Drawing - Illustrates an overhead view of the proposed project; and
• Cross Section Drawing - Illustrates a side view of the proposed project.

In general, all Maps and Drawings should be:

- Legible and clearly labeled on single sided 8 1/2 x 11 size paper;
• Drawn to scale with the scale identified on each drawing;
• Black and white ONLY (Colored Maps and Drawings will NOT be accepted);
• Accurate and reproducible;
• Placement of the north arrow, title, legend and scale bar must be consistent on Maps and Drawings; and
• Information provided in Steps 1 through 12 must be consistent with the Maps and Drawings.

Inadequate or poor Maps and Drawings are the primary reason for delays in the permitting process. Sample Maps and Drawings are provided with this Joint Permit Application package for your assistance.

Check this box when you have completed Step 13; then proceed to Step 14.

Step 14 of 16

Who needs to certify and sign this application?

Note: The application must be signed and dated by the applicant who desires to undertake the proposed activity.

Note: If an agent is being used, the applicant and agent must sign and date this application.

Read the following information. Print your name, sign and date to certify this application for processing.

- Application is hereby made for a permit or permits to authorize the work described in this application.
• To the best of my knowledge the proposed activity described in this permit application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Management Program.
• I certify that the information in this application is complete and accurate.
• If applicable, I also certify that the declarations in Step 12, notification to landowner(s), are complete and accurate.
• I will abide by the conditions of the permit or license if issued and will not begin work without the appropriate authorization.
• Permission is granted to the agencies responsible for authorization of this work, or their duly authorized representative, to enter the property site during working hours for inspection purposes.
• If applicable, I authorize the agent identified in Step 2 to act in my behalf as agent for this application and the agent will furnish, upon request, information in support of this application.

Steve Mathies

Clearly Print Name of Applicant



Applicant Signature

Date

- As the agent, I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Charlie Hess

Clearly Print Name of Authorized Agent



Authorized Agent Signature

Date

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

Check this box when you have completed Step 14; then proceed to Step 15.

Continue to page 9 for Step 15.





## Joint Permit Application *Continued (page 9 of 12)*

### Step 15 of 16

**What fees are required for permit processing and what methods are available for payment?**

The following fees apply and must be received in order to process the application.

- a. Check  the appropriate box to indicate the fee type: (See the "Glossary" on page 10 for the definitions of terms.)
- \$100.00 - Non-Residential
  - \$ 20.00 - Residential
- If your activity involves dredging or filling, CMD will bill you on the basis of \$.04 per cubic yards for residential uses and \$.05 per cubic yards for all other uses.
  - Fees may not apply if the Joint Permit Application is being processed by the local Parish.
  - Additional fees may be assessed for mitigation processing.

- b. Check  the appropriate box to indicate payment method:
- Check/Money Order
  - Electronic Transfer
  - Credit Card (Visa or Mastercard only)
  - Escrow Account

- Make Check/Money Order payable to the Coastal Management Division.
- To pay by Credit Card, Electronic Transfer or Escrow Account, call CMD at 1-800-267-4019 to provide specific account information or provide account information on a separate sheet of paper and include with application.
- Cash is not accepted.

Check this box when you have completed Step 15; then proceed to Step 16.

**COE and Local Parish Program fees will be assessed separately at the end of the process.**

### Step 16 of 16

**How do I submit the Joint Permit Application and Maps and Drawings for processing?**

To submit this permit application, Maps and Drawings and all supporting documentation, select an option below.



**MAIL:** Coastal Management Division  
 P.O. Box 44487  
 Baton Rouge, LA 70804-4487

If you select the MAIL option, submit the original Joint Permit Application, Maps and Drawings and supporting documentation.



**EXPRESS MAIL:** Coastal Management Division  
 617 North 3rd Street,  
 Suite 1048  
 Baton Rouge, LA 70802  
 Phone: 225-342-7591

If you select the EXPRESS MAIL option, submit the original copies of the Joint Permit Application, Maps and Drawings and supporting documentation.

**If your project is in the Galveston or Vicksburg District of the Corps of Engineers, please see page 12.**

*Note: Please keep a copy of the completed application for your records.*



**FAX:** 225-342-6760  
**Attention: Coastal Management Division, Joint Permit Application Processing**

- Include a cover sheet with the total number of pages; and
- If you select the FAX option, follow-up with one of the mail options to prevent delay if the fax is not legible.
- Payment arrangements should be made prior to faxing your application by calling CMD at 1-800-267-4019.

Check this box when you have completed Step 16; then submit for processing.

*Continue to page 10 for the "Glossary of Terms".*



## Glossary of Terms

The following information may provide a better understanding of terms that are used throughout this application. If the terms defined in this section do not help you, please contact CMD at one of the following, 1-800-267-4019 or 225-342-7591.

### Adjacent Landowner

Property owners or lessees whose property is contiguous or shares a common border with that being developed.

### Affected Landowner

The owner of the land on which a proposed activity will occur. If a property has multiple owners with undivided interest, each person owning an interest is considered to be an affected landowner.

### Coastal Use Permit

A permit required by 214.30 of the SLCRMA. The term does not mean or refer to, and is in addition to, any other permit or approval required or established pursuant to any other constitutional provision or statute.

### Compensatory Mitigation

As defined by CMD, replacement, substitution, enhancement, or protection of ecological values to offset anticipated losses of ecological values caused by a permitted activity.

As defined by the COE, compensating for unavoidable adverse impacts to wetlands by restoring areas to wetlands, creating wetlands, or enhancement of wetlands. Most compensatory mitigation involves purchase of mitigation credits in a private mitigation bank. The amount of credits purchased is dependent on the amount of wetland values that would be lost because of the permitted project.

### Cross Section

A side view of a project area illustrating elevations of features such as natural ground; buildings; bulkheads; piers; and depressions such as waterways, ditches, ponds, etc. Cross sections also show side views of proposed work such as dredging and filling.

### Discharge

The placement or movement of fill or excavated material using methods including, but not limited to dragline or backhoe buckets, bulldozers, front loaders, dump trucks, hydraulic dredge pipes, wheel-washing or prop-washing, jetting, etc.

### Dredged Material (Spoil)

Material that is excavated as part of a specific project.

### Ecological Value

The ability of an area to support vegetation, fish and wildlife populations.

### Excavate

To dig out, remove or move earthen material, or to form a cavity or hole including linear features. Methods include, but are not limited to, draglines, backhoes, bulldozers, front loaders, hydraulic dredges, wheel-washing or prop-washing, jetting, etc.

### Fastlands

Lands surrounded by publicly-owned, maintained, or otherwise validly existing levees or natural formations as of January 1, 1979, or as may be lawfully constructed in the future, which levees or natural formations would normally prevent activities, not to include the pumping of water for drainage purposes, within the surrounded area from having direct and significant impacts on coastal waters.

### Fill Material

Any material including, but not limited to, soil, rocks, sand, clay, construction debris, trees, wood chips, broken concrete and asphalt, etc., whose placement replaces any portion of a waterbottom or wetland with dry land or changes the elevation of wetlands or waterbottoms. This material may come from on-site or be imported from an off-site source.

### Mean High Water

The average position (elevation) of the high water mark.

### Mean Low Water

The average position (elevation) of the low water mark.

### Mitigation

All actions taken by a permittee to avoid, minimize, restore, and compensate for ecological values lost due to a permitted activity.

### Non-Residential

Includes all actions that do not meet the requirements for the *Residential* category.

### Non-Vegetated Waterbottoms

Waterbottoms that lack the presence of rooted vegetation.

### Non-Wet Areas

Any area that has sufficiently dry conditions that indicate hydrophytic vegetation, hydric soils, and/or wetland hydrology are lacking.

### Off-site

Not within or adjoining the area directly modified by the permitted activity and not directly related to implementation of the permitted activity.

### On-site

Within or adjoining the area directly modified by the permitted activity or directly related to implementation of the permitted activity.

### Residential

Any coastal use associated with the construction or modification of one single-family, duplex, or triplex residence or camp. It shall also include the construction or modification to any outbuilding, bulkhead, pier, or appurtenance on a lot on which there exists a single-family, duplex, or triplex residence or camp or on a water body which is immediately adjacent to such lot. Uses which do not fit this definition are non-residential. The Coastal Use Permit application fee for residential projects is \$20.

### Unavoidable Net Loss of Ecological Values


The net loss of ecological value that is anticipated to occur as the result of a permitted/authorized activity, despite all efforts, required by the guidelines, to avoid, minimize, and restore the permitted/authorized impacts.

### Vegetated Waterbottoms

Waterbottoms that exhibit the presence of rooted vegetation.

### Wetlands

For the purposes of §724 (as defined in R.S. 49:21.41), an open water area or an area that is inundated or saturated by surface or ground water at a frequency and duration to support, and under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Under the DNR program, fastlands and lands more than 5 feet above sea level which occur in the designated coastal zone of the state are not considered wetlands under the state's program.

Continue to page 11 for "Contacts". 



## Frequently Asked Questions

The following questions and answers may assist you during the application process. For an expanded version of frequently asked questions, visit our website at [www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi](http://www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi).

### **What gives the Coastal Management Division (CMD) the right to regulate private property?**

CMD does not regulate private property. CMD regulates activities that have a direct and significant impact on state coastal waters. CMD's authority derives from Louisiana Revised Statute 49:214.21 et seq. Visit the legislative website for additional information at <http://www.legis.state.la.us/tsrs/search.htm>.

### **How does the Joint Permit Application process work?**

Once the application is submitted to CMD, which serves as a central collection point for the application, CMD distributes the application to COE for processing of their permits and to interested parties for their review and comments. CMD and the commenting agencies review the application for conformance with programmatic requirements and look for ways of minimizing impacts to coastal resources. Once consensus is reached, an appropriately conditioned permit is issued.

### **Who receives a copy of my Joint Permit Application?**

The following agencies/offices receive a copy of your application:

- CMD Permit Section, (two copies);
- Local Programs Section, (if necessary);
- CMD Support Services Staff;
- CMD Field Investigator;
- The Army Corps of Engineers, (two copies); and
- State Land Office.

### **How long does it take to obtain a permit?**

General permits may be issued in as little as five days, though mitigation and landowner notification requirements typically add several weeks or more to processing. Individual Coastal Use Permits take a minimum of 45 days and can take considerably longer, depending on the complexity of the project and the quality and accuracy of Maps and Drawings.

### **How do I check the status of a submitted Joint Permit Application?**

Information regarding submitted permits may usually be obtained on the CMD website: <http://130.39.237.83/permit/index.htm>.

### **How does CMD protect the information that I provide throughout this application?**

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404.33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary; however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

### **May I submit a Joint Permit Application to the Parish instead of CMD?**

If your project is in a parish with an approved Local Coastal Program, you may submit your application to either the approved local program or CMD.

### **What other permits may be required?**

If your project involves dredging or filling of wetlands you may need a Water Quality Certification from the Department of Environmental Quality. Other approvals may be required but are not limited to the following:

- State Land Office;
- Department of Wildlife and Fisheries;
- Department of Culture, Recreation and Tourism;
- Department of Transportation and Development; and/or
- Department of Health and Hospitals.

These agencies will notify you of their requirements as part of the Joint Public Notice process.

### **When I receive my permit from CMD, may I begin work?**

Following the determination from CMD, work may begin only after obtaining any necessary permit(s) from the COE, including any required mitigation, and any approvals or permits required any local authority or agency or by any state or federal agency, as may be required by law for said activity or the construction of the referenced project.

### **How may I receive an extension for a permit?**

If you have not begun work on your project within two years of the date of permit issuance, the initiation period can be extended for an additional two years if you submit a request to CMD no less than sixty days and no more than one-hundred and eighty days before the initial two year period expires. The expiration date cannot be extended.

### **If I began my project without a permit, what will happen?**

CMD processing of any pending Joint Permit Application for the project will be suspended until the violation is resolved. You may be required to remove any structures installed and restore any impacted habitat. You may be subject to fines of up to \$12,000 and may be jailed up to six months. The penalties assessed by the Army Corps of Engineers may be significantly more expensive and more complicated.

### **Did I break the law if I have already done some clearing?**

A field investigation and project evaluation will be required to determine the extent of any impacts and whether or not you have violated any laws. Contact CMD at 1-800-267-4019 for assistance.

### **What is Section 10 of the Rivers and Harbors Act?**

Section 10 of the Rivers and Harbors Act of 1899 prohibits the obstruction or alteration of navigable water of the United States without a permit from the U.S. Army Corps of Engineers.

### **What is Section 404 of the Clean Water Act?**

Section 404 of the Clean Water Act prohibits the discharge of dredged or fill material into waters of the United States without a permit from the U.S. Army Corps of Engineers.

### **How do I receive additional information on the Joint Permit Application process?**

For additional information regarding the Joint Application Process, contact CMD at 1-800-267-4019 or visit the website at: [www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi](http://www.dnr.state.la.us/crm/coastmgt/cup/cup.ssi). You may also contact the Army Corps of Engineers at 504-862-2766 or visit the website at: [www.mvn.usace.army.mil/ops/regulatory](http://www.mvn.usace.army.mil/ops/regulatory).



# Contacts and Additional Landowner Information

If your project is in the Galveston or Vicksburg COE District, submit your application directly to them. See addresses listed below.



## COE District Contact Information:

U.S. Army Corps of Engineers  
Galveston District  
Attention: CESWG-PE-R  
P.O. Box 1229  
Galveston, TX 77553-1229  
Phone: 409-766-3930  
Fax: 409-766-3931

U.S. Army Corps of Engineers  
Vicksburg District  
Attention: CEMVK-OD-F  
4155 Clay Street  
Vicksburg, MS 39183-3435  
Phone: 601-631-5276  
Fax: 601-631-5459

## Additional Landowner Information (if necessary):

### Adjacent Landowner #5:

\_\_\_\_\_  
Name of Adjacent Landowner

### Mailing Address:

\_\_\_\_\_  
Street Address or P.O. Box Unit/Apartment #

\_\_\_\_\_  
City Parish State Zip

### Adjacent Landowner #6:

\_\_\_\_\_  
Name of Adjacent Landowner

### Mailing Address:

\_\_\_\_\_  
Street Address or P.O. Box Unit/Apartment #

\_\_\_\_\_  
City Parish State Zip

### Adjacent Landowner #7:

\_\_\_\_\_  
Name of Adjacent Landowner

### Mailing Address:

\_\_\_\_\_  
Street Address or P.O. Box Unit/Apartment #

\_\_\_\_\_  
City Parish State Zip

### Adjacent Landowner #8:

\_\_\_\_\_  
Name of Adjacent Landowner

### Mailing Address:

\_\_\_\_\_  
Street Address or P.O. Box Unit/Apartment #

\_\_\_\_\_  
City Parish State Zip

# **Louisiana Barrier Berm Oil Spill Response Project**

Joint Permit Application  
Supplementary Information

## Step 5 of 16: Emergency Authorization

### (Emergency Permit) NOD-20: MVN 2010-1066-ETT

On May 27, 2010, a NOD-20 emergency permit (MVN 2010-1066-ETT) was offered by the U.S. Army Corps of Engineers, New Orleans District (CEMVN). On June 1, 2010, the State agreed to the terms and conditions and executed the emergency permit. The emergency permit allows the construction of berm for reaches E-3 and E-4 to the east of the Mississippi River, and reaches W-8, W-9, W-10, and W-11 to the west, for a total of approximately 38 miles of barrier berm. These areas have been identified by USACE staff assessment as critical locations where greater immediate benefit is likely to be achieved with minimal adverse disruption of coastal circulation patterns. *(Note: The segments (or reaches) are first shown on a "Location Map" for either the eastern or western segments (meaning east or west of the Mississippi River) and then separate drawing sets are provided for each reach.)*

### Compliance Performed as Required by the NOD-20 Emergency Permit

Emergency Permit MVN 2010-1066-ETT for the development of sand berms along the Louisiana coast is "conditioned" upon compliance with two (2) "Provisions" and thirty-eight (38) "Special Conditions", including compliance with the Interim Monitoring Plan and the Special Use Permit issued by the USFWS which contains 23 special conditions as amended. These conditions have prompted a regular exchange of information which confirms completion of actions that require CEMVN approval in advance of the beginning, or allow for continuance, of work. These regular compliance submittals affirm that surveys of potentially significant cultural resources surveys and contaminant testing of sediment have taken place. The proposed project will maintain the ongoing compliance activities to ensure that the construction activities will continue and adverse impacts will be minimized. Below is a listing of work submitted and approved to date.

### EASTERN REACHES - COMPLIANCE PACKETS/ PERMIT MODIFICATION REQUESTS

(APPROVED)

- |                                   |          |
|-----------------------------------|----------|
| 1. First 2,000 LF of Reach E4     | 06/12/10 |
| 2. Borrow Area 6A                 | 06/13/10 |
| 3. Borrow Area CH-B               | 06/28/10 |
| 4. First 7,000 LF of Reach E4     | 06/28/10 |
| 5. Re-Handling Area RH-2          | 07/02/10 |
| 6. Borrow Area HD-A               | 07/02/10 |
| 7. Borrow Area CH-A               | 07/02/10 |
| 8. Borrow Area HD-A Revised       | 07/09/10 |
| 9. Pipeline Corridor – RH-2 to E4 | 07/09/10 |
| 10. Re-Handling Area RH-1         | 07/16/10 |
| 11. Re-Handling Area RH-3         | 07/16/10 |
| 12. Pipeline Corridor – RH-3      | 07/22/10 |
| 13. First 20,000 LF of Reach E4   | 08/02/10 |
| 14. 4,800 LF of Reach E4 South    | 08/10/10 |
| 15. Remaining E4-Sections         | 09/20/10 |

16. Borrow Area 6A Backfill/Restoration Activities 10/19/10

(PENDING)

1. E-4 Permit Modification 10/15/10

**WESTERN REACHES - COMPLIANCE PACKETS/ PERMIT MODIFICATION REQUESTS**

(APPROVED)

1. Pass a Loutre HDDA	Pre-Approved
2. Cubit's Gap	Pre-Approved
3. Re-Handling Area 35E	06/14/10
4. Pipeline Corridor – 35E to W9	07/09/10
5. W9 Permit Modification	07/15/10
6. Re-Handling Area 25-5	07/16/10
7. 25-5 Pipeline 1 West Section	07/24/10
8. All 25-5 Pipelines	08/02/10
9. W10 Permit Modification	08/17/10
10. W10 Barrier Berm Footprint	08/31/10
11. 25-5 Alternate Pipeline Corridor	09/07/10
12. Pipeline Corridors – 35E to W8	10/01/10
13. W8 Berm Alignment	10/07/10

## Step 7 of 16: Adjacent Landowners

All berm reaches, borrow sites, and re-handling areas will be located in open water owned by the State of Louisiana or the U.S. Federal Government with the exception of Reaches W-9 and W-10. The following is a list of landowners associated with Reaches W-9 and W-10. Because the berm crosses ownership tracts, the list of “Adjacent Landowners” and “Affected Landowners” is the same list; therefore, the list of names below is also applicable for Step 12 of 16 of the application.

Plaquemines Parish School Board  
P. O. Box 69  
Belle Chasse, LA 70037

Sarah Ann McGee  
6029 Pierrier Street  
New Orleans, LA 70118

John B. FASTERLING III  
Charles FASTERLING  
2955 Ridgelake Dr., Ste 109  
Metairie, LA 70002

May C. Devitt  
Post Office Box 319  
Ethel, LA 70730

Joan FASTERLING MEYERS  
2955 Ridgelake Dr., Ste 109  
Metairie, LA 70002

The Rene Leland Provosty, George H.  
Provosty  
Yvette Nan Provosty Trust  
c/o May C. Devitt  
Post Office Box 319  
Ethel, LA 70730

Russel C. Pottharst  
Mr. J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 7043

Apache Louisiana Minerals, Inc.  
P. O. Box 206  
Houma, LA 70361

John FASTERLING MCGEE  
2412 Walbash Drive  
Montgomery, AL 36116

Judith Ellis Pratt  
544 Lowerline Street  
New Orleans, LA 70118



Shingle Point LLC  
c/o Glen A. Fleming  
Post Office Box 7125  
Belle Chasse, LA 70032

Titine C. Pottharst  
Mr. J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 70437

James S. Ellis Jr.  
P. O. Box 7912  
Metairie, LA 7001

Kenneth Claude McGee, Jr.  
P. O. Box 1029  
Rockport, TX 78381

Lynne P. McMillian  
J. Stuart Ellis Jr.  
3 Park Lane  
Folsom, LA 7043

Joan R. Brown  
6033 Gaylyn Drive  
Shreveport, LA 71105

The Louisiana Land and Exploration  
Company  
P. O. Box 7097  
Houma, LA 70361

George Pivach, II, Manager  
Shingle Point LLC  
P O Box 7125  
8311 Highway 23, Suite 104  
Belle Chasse, LA 70037

Mark A. Handley  
Tennessee Gas Pipeline Company  
9 Greenway Plaza  
Houston, TX 77002-5089

George A. Robinson, Manager  
Robinson Interests Company, L.L.C.  
5005 Riverway Drive, Suite 200  
Houston, TX 77056

John W. Backer, Jr., VP  
J. A. Interests, Inc.  
830 Grassy Springs Road  
Versailles, KY 40383

Samuel G. Robinson, Manager  
Robinson Lumber Company  
4000 Tchoupitoulas Street  
New Orleans, LA 70115

Peter Cooper Hitt Jr.  
8502 Huntspring Drive  
Lutherville, MD 21093

A. Bruce Wallis  
Felice Exploration, L.L.C.  
P O Box 750667  
New Orleans, LA 70175-0667

Jacqueline Elizabeth Kirn Long  
P. O. Box 73  
Meridian, CA 95957-0073

Floyd A. Wallis  
F. A. Wallis Properties, L.L.C.  
P O Box 750667  
New Orleans, LA 70175-0667

Anne Schulze Nelson  
345 Lake Avenue  
Metairie, LA 70005

Kathryn Cartan Schulze  
505 Helios Avenue  
Metairie, LA 70005-3243

Elaine Mary Schulze Colen  
10272 Latney Road  
Fairfax, VA 22032-3256

Hermann John Schulze, Jr.  
474 Spinnaker Drive  
Marco Island, FL 34145-2430

Ann Gretchen Schulze Fontenot  
1041 Westchester Drive  
Baton Rouge, LA 70810-5229

Diane Mary Schulze Hill  
10965 Goodwood Blvd.  
Baton Rouge, LA 70815-5220

Richard Rudolph Schulze  
1812 Pasadena Avenue  
Metairie, LA 70001-2542

Rudolph Franz Schulze  
P. O. Box 393  
Grand Coteau, LA 70541

Helen Margaret Stich Plough  
1119 Tulane Avenue  
New Orleans, LA 70112

Jacquelyn Robbert Stich  
175 Quitman Perry Road  
Carriere, MS 39426

Jacquelyn R. Stich, Trustee  
Frank J. Stich, Jr. Testamentary Trust  
175 Quitman Perry Road  
Carriere, MS 39426

Walter F. Marcus, Jr., Judge  
7203 Benjamin Street  
New Orleans, LA 70118

Sam B. Marcus  
14902 Preston Road, PMB 534-404  
Dallas, TX 75240-9105

Ann Elizabeth Levy Piassick Cox  
#5 Laureston Place  
Dallas, TX 75225

Walter Milton Levy  
5315 Rockclift Place  
Dallas, TX 75209-2425

Lester J. Levy, Jr.  
3911 Beverly Drive  
Dallas, TX 75205-2809

Elizabeth Hiern Ainsworth  
1776 Arabella Street  
New Orleans, LA 70115

Elisabeth Ainsworth Rareshide  
3840 Napoleon Avenue  
New Orleans, LA 70125-4444

Robert A. Ainsworth, Iii  
77378 Donnie Road  
Folsom, LA 70437

Leslie Ainsworth Maggio  
7609 Overbrook Drive  
Tampa, FL 33634-2961

Louis Yarrut Fishman  
Fishman Family Louisiana, L.L.C.  
201 St. Charles Avenue, 46<sup>th</sup> Floor  
New Orleans, LA 70170

Mildred Bryan Bancroft Trust  
c/o ICG  
P O Box 810490  
Dallas, TX 75361-0490

Linda Carroll D'antoni Blicharz  
20 Willow Oak Lane  
St. Louis, MO 63122-4714

Linda D. Blicharz Testamentary Trust  
c/o Commerce Bank  
P O Box 11356  
St. Louis, MO 63105-1356

Anita Marie D'antoni Blanke  
4912 Townsend Street  
Metairie, LA 70006-1131

Carla Ann D'antoni Ratican  
643 East Monroe Avenue  
Kirkwood, MO 63122-6319

Carla D. Ratican Testamentary Trust  
c/o Gulf Coast Bank & Trust Company  
737 Terry Parkway  
Terrytown, LA 70056

Mona Claire D'antoni Marsden  
12225 Robyn Lane  
Sunset Hills, MO 63127-1627

Mona D. Marsden Testamentary Trust  
c/o Commerce Bank NA  
P O Box 11356  
St. Louis, MO 63105-1356

Claire Lally Brennan  
3 Poydras Street, Suite 7A  
New Orleans, LA 70130

Ralph Owen Brennan  
452 Walnut Street  
New Orleans, LA 70118-4932

Cynthia Louise Brennan  
7111 Bienville Street  
New Orleans, LA 70130

Thomas John Brennan  
1212 Bluewater Drive  
Mandeville, LA 70471-7418

Susan Menendez Hohenwarter, Co-Trustee  
Barbara Menendez Ganucheau, Co-Trustee  
Charles V. Menendez, Jr., Co-Trustee  
The Charles V. Menendez, M.D.  
Testamentary Trust  
219 Washington Avenue  
Ocean Springs, MS 39564-4625

Marion Vaccaro Genevay Estate  
4009 North Woodlawn Avenue  
Metairie, LA 70006-2839

Antonina Catherine Vaccaro Hanson  
715 St. Louis Street  
Pass Christian, MS 39571-5001

Albert A. Prats, Jr.  
1700 Lark Street  
New Orleans, LA 70122

Verda Hudson Perschall  
307 Rue St. Peter  
Metairie, LA 70005

Margaret Lynn Perschall Fetherston  
785 Dividing Ridge Road  
Birmingham, AL 35244

Susan Mary Perschall Guarisco  
159 Hollywood Drive  
Metairie, LA 70005

Patricia Ann Perschall Loyacano  
6009 Morton Street  
Metairie, LA 70003

Clement Francis Perschall, Jr.  
435 Fairway Drive  
New Orleans, LA 70124

Bert A. Flanders, III  
927 Wild Forest Drive  
Gaithersburg, MD 20879-3209

Martha Anne Flanders Zimmer  
2705 Canna Ridge Circle NE  
Atlanta, GA 30345-1411

Mary Catherine Flanders Berglund  
7716 Sweetbriar Road  
Richmond, Virginia 23229-6622

Nathaniel P. Phillips, Jr.  
826 Union Street, Suite 200  
New Orleans, LA 70112

Joan R. Brown  
509 Delaware Street  
Shreveport, LA 71106-1635

The Rene Leland Provosty, George H.  
Provosty  
and Yvette Nan Provosty Trust  
c/o George H. Provosty, Trustee  
30 Trinity Drive  
Lumberton, NC 28358

Jacqueline Elizabeth Kirn Long  
P. O. Box 73  
Meridian, CA 95957-0073

Clement Francis Perschall, Jr.  
110 Veterans Blvd, Suite 340  
Metairie, La 70005

Charles Brearley  
APTO 40-3017  
Costa Rica, Central America

John Brearley  
27119 Boerne Forest  
Boerne, TX 78006

Susie Burford  
6 Charleston Avenue  
Clinton, MS 39056

Jack Causey  
P.O. Box 99  
Cherokee Street  
Centreville, MS 36931

Dixon Christian  
101 Maple Avenue  
Richmond, VA 23226

Margaret Christian  
950 Dalmore Drive  
Midlothian, VA 23226

William Christian  
5937 Stones Throw Road  
Houston, TX 77057

Dorothy Cosnahan  
512 Aston Avenue  
Mccomb, MS 39648

Charlene Dzierzawski  
1500 Albemarle Court  
Dunedin, FL 34698

Enterprise Products  
P.O. Box 4324  
Houston, TX 77210

Barbara Ervin  
411 Blvd Avenue  
Lexington, MS 39095

Charlotte Eustis  
511 Lowerline Street  
New Orleans, LA 70118

Lynn Falkenheiner  
P.O. Box 488  
Woodville, MS 39669

Margaret Falkenheiner  
P.O. Box 488  
Woodville, MS 39669

Ridgely Finley III  
P.O. Box 736  
Folsom, LA 70437

Elinor King  
2604 Calhoun St  
New Orleans, LA 70118

Ann Meyers  
P.O. Box 7148  
New Orleans, LA 70186

Gerald Meyers  
P.O. Box 7148  
New Orleans, LA 70186

Thomas Meyers  
P.O. Box 7148  
New Orleans, LA 70186

Sue Nicholas  
P.O. Box 216  
Woodville, MS 39669

Elinor O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Frederica O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Loretto O'Reilly  
P.O. Box 7148  
New Orleans, LA 70186

Michael O'Reilly  
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## Step 8 of 16: Purpose and Need for the Proposed Project

### The Deepwater Horizon Oil Spill

At approximately 11:00PM CDT on April 20, 2010, the Deepwater Horizon, a semi-submersible drilling platform, working on an exploratory well off the shore of Louisiana in the Gulf of Mexico experienced an explosion and fire. The Deepwater Horizon semi-submersible Mobile Offshore Drilling Unit (MODU) is located about 40 miles southeast of the Louisiana coast in the Macondo Prospect Oil Field; the well is found in the Mississippi Canyon Lease Block 252 (MC-252). The explosion caused the Deepwater Horizon to burn and sink, and started a massive offshore oil spill in the Gulf of Mexico. The spill stemmed from a sea floor deepwater wellhead 5,000 feet below the ocean surface. The resulting oil slick covered a surface area estimated at 2,500 square miles with the exact size and location of the slick fluctuating from day to day depending on weather conditions. Scientists also reported observations of immense underwater plumes of oil not visible at the surface.

On July 15, 2010 the leak was stopped by capping the gushing wellhead after releasing about 4.9 million barrels, or 185 million gallons of crude oil. It was estimated that 53,000 barrels per day were escaping from the well just before it was capped. It is believed that the daily flow rate diminished over time, starting at about 62,000 barrels per day and decreasing as the reservoir of hydrocarbons feeding the gusher was gradually depleted. On September 19, 2010 the relief well process was successfully completed and the federal government declared the well "effectively dead."

The National Oceanic and Atmospheric Administration (NOAA) estimated that about 25% of the oil had been removed from the Gulf. The table below presents the NOAA estimates based on an estimated release of 4.9 million barrels of oil. However, there is plus/minus 10% uncertainty in the total volume of the oil spill. "Chemically dispersed" includes dispersal at the surface and at the wellhead; "naturally dispersed" was primarily at the wellhead; "residual" is the oil remaining as surface sheen, floating tarballs, and oil washed ashore or buried in sediment.

Category	Estimate
Direct recovery from wellhead	17%
Burned at the surface	5%
Skimmed from the surface	3%
Chemically dispersed	8%
Naturally dispersed	16%
Evaporated or dissolved	25%
Residual remaining	26%

Two months after these numbers were released, NOAA head Carol Browner said they were "never meant to be a precise tool" and that the data "was simply not designed to explain, or capable of explaining, the fate of the oil... oil that the budget classified as *dispersed*, *dissolved*, or *evaporated* is not necessarily gone." Based on this estimate, 75% of the oil released remains in the Gulf.

The impact of the spill continues since the well was capped. It is the largest accidental marine oil spill in the history of the petroleum industry. This environmental disaster has already made an extensive adverse impact on marine and wildlife habitats. Crews have been working to protect hundreds of miles of beaches, wetlands and estuaries along the northern Gulf coast, using skimmer ships, floating containment booms, anchored barriers, and sand-filled barricades along shorelines. The spill has damaged the Gulf of Mexico fishing and tourism industries. The U.S. Government named BP as the responsible party in the incident.

### **The Barrier Berm Project**

The Deepwater Horizon oil spill in the Gulf of Mexico continues to pose great threats to coastal communities, industries, culture, and oil exploration initiatives. While BP has consistently acknowledged responsibility for the incident, significant remedial and preventive actions are required to clean up and mitigate adverse impacts of the spill. In an attempt to remediate the potential impact of oil to thousands of acres of fragile wetlands in South Louisiana, the State of Louisiana proposes the development of a sand berm adjacent to and seaward of existing barrier islands along the Louisiana shoreline. The implementation of this sand barrier will provide immediate benefits preventing oil from coming ashore onto existing barrier islands and penetrating fragile inland marshlands. The project is proposed to develop approximately 38 miles of sand berm adjacent to existing barrier islands.

## **Step 9 of 16: Project Work in Progress**

To date all construction has taken place under the authorization of the NOD-20 emergency permit as described above in Step 5 of 16. All work performed to date depended upon completion and approval of compliance actions and/or acceptance of permit modifications if the work to be performed would require exception from the provisions and special conditions stated in the original emergency permit.

### **Borrow Areas**

#### **Hewes Point - Chandeleur Islands**

On June 11, 2010, the State received the notice to proceed to commence dredging operations in the Hewes Point borrow site and allow construction of the first 2,000 linear feet of the E-4 berm. From June 14, 2010 through June 22, 2010, Borrow Area 6A (located on the area map) was used as a temporary borrow site to begin work on the northernmost 2,000 linear feet of Reach E-4 of the sand berm. On June 22, 2010, work was suspended at Borrow Area 6A and the cutterhead dredge was moved to Reach CH-B at Hewes Point. The borrow basin at Area 6A was backfilled with material from Borrow Area CH-B. The USFWS has accepted the results of backfilling at 6A and the USACE considers restoration activities at 6A complete.

On June 28 and July 2, 2010, Hewes Point Borrow Areas CH-A, CH-B, and HD-A were approved by the Corps for use as a borrow source. Dredging operations in those approved areas began shortly thereafter. Between July 1, 2010 and August 11, 2010, backfilling of Area 6A by cutterhead dredge was conducted from Borrow Areas CH-B and HD-A. Cutterhead operations continued from CH-A constructing berm along E-4 while hopper dredging activities commenced in HD-A. Hopper dredges extracted material from HD-A and transported it to Rehandling Site "RH-2". Hopper dredge operations ended on July 24, 2010.

On July 9, 2010, the Corps agreed to the request to extend Hewes Point Borrow Area HD-A approximately 1,780 feet along the northern boundary to allow sufficient draft depths necessary for hopper dredging operations.

Additionally, on July 15, 2010, the State executed the Reach W-9 permit modification acceptance letter, thereby agreeing to abide by an additional five conditions for the emergency permit. Special Conditions 34 – 38 were added to ensure that hopper dredge activity in the Gulf of Mexico complied with federal requirements.

As of October 18, 2010, 3,922,632 cubic yards have been extracted from Hewes Point for construction of Reach E-4 and backfill of 6A.

#### **Mississippi River**

Current dredging operations in the Mississippi River have occurred from the following areas- the Hopper Dredge Disposal Area ("HDDA"), Cubit's Gap, and Pilottown Anchorage. To date, all dredging activities in

the Mississippi River have occurred in areas that have been previously approved/ permitted by the Corps. As of October 19, 2010, approximately 7,035,893 cubic yards have been extracted from Mississippi River borrow sources.

#### **Hopper Dredge Disposal Area**

Dredging activities in the Mississippi River's HDDA commenced on July 10, 2010. Material mining occurs via cutterhead dredges that extract material and transport to scows via spider barge. All scows then transport material to the pre-approved Rehandling Areas 25-5 or 35E which are the temporary rehandling sites for Reach W-8, W-9, W-10, and W-11 berm construction operations. To date approximately 2,857,155 cubic yards have been extracted from the HDDA. An additional 1,926,631 cubic yards have been dredged from miscellaneous areas near Head of Passes in the Mississippi River.

#### **Cubit's Gap**

Dredging activities in the Mississippi River's Cubit's Gap commenced on June 15, 2010. All dredging at Cubit's Gap is via hopper dredge, and material is then transported via Southwest Pass to Rehandling Areas 35E or 25-5. To date approximately 679,895 cubic yards have been extracted from the Cubit's Gap.

#### **Pilottown Anchorage Area**

Dredging activities in the Mississippi River's Pilottown Anchorage Area commenced on July 13, 2010. All dredging at Pilottown is via hopper dredge, and material is then transported via Southwest Pass to Rehandling Areas 35E or 25-5. To date approximately 1,779,853 cubic yards have been extracted from the Pilottown Anchorage.

#### **Pass a Loutre Area A**

On August 11, 2010, the State filed a permit modification with the Corps seeking authorization to commence dredging activities in Pass a Loutre Area A ("PAL-A"). On August 17, 2010, the Corps responded with concerns over the proposed dredging operations' potential effects on bank stability due to locations near banks and depths requested to be dredged. The Corps also sought a mitigation plan to address the 8.3 acres of wetlands the proposed operations would adversely affect. The State responded by amending its current proposed dredging area to avoid all wetlands, allow for sufficient distances from the banks, and agreed to dredge at a depth no greater than 30 feet. Pipeline issues, however, have not been resolved at this time, and resources necessary to address those concerns are currently focused on South Pass.

#### **South Pass**

The State is currently seeking authorization to commence dredging operations in South Pass. South Pass is environmentally cleared and thus does not require a permit modification. However, the proposed dredge parameters and pipeline issues have not been resolved to date.

### **Rehandling Areas**

### **Eastern Reach Rehandling Areas**

a. Rehandling Area 1 (“RH-1”)

On July 16, 2010, the State received a notice to proceed authorizing the use of RH-1 as a rehandling site for berm construction activities associated with the construction of Reach E-4. As of October 19, 2010 it has not been necessary to place material at RH-1.

b. Rehandling Area 2 (“RH-2”)

On July 2, 2010, the State received a notice to proceed authorizing the use of RH-2 as a rehandling site for berm activities associated with construction of the southern section of E-4. As of October 19, 2010, approximately 471,634 cubic yards of material has been transported via hopper dredge from Hewes Pt. and placed in RH-2. From the rehandling area, approximately 438,546 cubic yards were transported via cutterhead dredge to E-4 South, creating approximately 400-500 linear feet of berm. Berm construction activities in E-4 South, which were dependent upon hopper dredging operations, were severely curtailed due to sea turtle taking restrictions and the denial to utilize St. Bernard Shoals. Hopper dredge operations ended on July 24, 2010.

c. Rehandling Area RH-3

On July 16, 2010, the State received a notice to proceed authorizing the use of RH-3 as a rehandling site for berm construction activities associated with the construction of Reach E-3. As of October 19, 2010 it has not been necessary to place material at RH-3.

### **Western Reach Rehandling Areas**

a. Rehandling Area 35-E

On June 14, 2010, the State received a notice to proceed authorizing the use of Rehandling Area 35-E as a rehandling site for berm construction activities associated with the construction of Reach W-9. Hopper dredge and scow transport of material commenced shortly thereafter. As of October 19, 2010, approximately 4,788,203 cubic yards of dredged material have been transported to and placed at 35E. Hopper dredge operations ended on July 24, 2010.

b. Rehandling Area 25-5

On July 16, 2010, the State received a notice to proceed authorizing the use of Rehandling Area 25-5 as a rehandling site for berm construction activities associated with the construction of Reaches W-9 and W-10. Hopper dredge and scow transport of material commenced shortly thereafter. As of October 19, 2010, approximately 2,520,757 cubic yards of dredged material has been transported to and placed at 25-5. Hopper dredge operations ended on July 24, 2010.

c. Rehandling Area 25-E

It is anticipated that the State will seek authorization for the use of an additional rehandling area, Rehandling Area 25-E, to support Reach W-11 berm construction. As of October 19, 2010, the State has not sought approval for this rehandling area, and thus no activity at this site has occurred.

## **Berm Reaches**

### **Eastern Berms**

a. Reach E-4

On June 11, 2010, the State received the notice to proceed allowing for the commencement of berm construction for the first 2,000 feet of the northern portion of E-4. Material has been transported directly from cutterhead dredging operations in Hewes Point to create the berm, with pipeline being laid as berm length increased. On June 28, 2010, the Corps then approved construction of up to northern 7,000 feet of E-4. On July 9, 2010, authorization for the pipeline corridor from Rehandling Area "RH-2" to the E-4 South berm was obtained. On August 2, 2010 notice to proceed with work on the first 20,000 feet of E-4 North was obtained, and on August 10, 2010, the first 4,800 feet of E-4 South. Finally, on September 20, 2010, the Corps authorized construction for all remaining E-4 sections. As of October 18, 2010, approximately 3,356,544 cubic yards of dredged material has been transported to and placed on Reach E-4.

b. Reach E-3

Authorization to fill Rehandling Area RH-3 and its associated pipeline corridor were obtained on July 16 and 22, 2010. However, berm construction activities which were dependent upon hopper dredging operations were severely curtailed due to sea turtle taking restrictions and the denial to mine St. Bernard Shoals. Thus the State has not yet sought authorization to commence construction of E-3.

### **Western Berms**

a. Reach W-8

On October 1, 2010, the Corps approved the pipeline corridor from Rehandling Area 35-E to Reach W-8. On October 7, 2010, the Corps' approved the proposed W-8 berm alignment. As of October 19, 2010 approximately 386,158 cubic yards have been transported to and placed on Reach W-8.

b. Reach W-9

On July 15, 2010, the State executed the W-9 permit modification terms and conditions issued by the Corps thus agreeing to the additional five (5) conditions associated with berm construction activities. The permit modification sought to move the proposed alignment of the berm onto the island. Berm construction commenced shortly thereafter. As of October 19, 2010, approximately 2,281,314 cubic yards of dredged material has been transported to and placed on W-9.

c. Reach W-10

On July 24, 2010 and August 2, 2010 the State received a notice to proceed for the laying of pipeline corridors from Rehandling Area 25-5 to W-10. On August 17, 2010 the Corps issued its notice to proceed for the State's W-10 permit modification, which sought to move the proposed alignment onto the existing island. On August 31, 2010 the Corps approved the W-10 berm

footprint, and the 25-5 “alternate pipeline corridor” was authorized. As of October 19, 2010, approximately 1,055,402 cubic yards of material has been transported to and placed on Reach W-10.

d. Reach W-11

The State has not yet sought authorization to proceed on Reach W-11. As stated previously, it is anticipated that the State will seek authorization for the use of an additional rehandling area, Rehandling Area 25-E, to support Reach W-11 berm construction.



## **Step 10 of 16: Project Description**

### **Applicant's Proposal**

The basic premise of the barrier is to place the sand berm in the Gulf of Mexico, immediately seaward of the existing barrier islands. However, because of ongoing design work to restore several of the barrier islands, the material may be moved within the approved boundaries of restoration projects to best utilize the material for a specific island segment. At the submittal of this application, Reaches W-9 and W-10 have been approved for placement of the material actually on the island versus seaward of the island. Southern sections of E-4 are currently under consideration for similar placement of the berm. The quantity of "Non-Wet Areas" shown in Step 10.b. of the application pertains to the estimated quantities for Reaches W-9, W-10 and non-wet sections of E-4.

In summary, the applicant proposes to construct a sand berm approximately 300-foot at the base (assuming an average water depth of two (2) feet), 20-foot at the crown and plus 6-feet NAVD88 for berm reaches W-8, W-11 and the northern section of E-4. For reaches W-9, W-10 and the southern section of E-4 immediately adjacent to the barrier islands, the berm will be constructed with an approximately 600 - 700 foot base, 300 - 400 foot at the crown and plus 6-feet NAVD88.

Reaches east of the Mississippi River (E-3 and E-4) will be constructed on the seaward side of the Chandeleur Islands, progressing from the north end southward and eventually westward toward Baptiste Collette Bayou. Reaches west of the Mississippi River will be constructed from Shell Island (W-8) eastward to Sandy Point (W-11). As mentioned above in Step 9 of 16, construction of reaches W-8, W-9, W-10 and E-4 is already in progress.

Material to construct the berm will be dredged from dredge locations approved by all appropriate regulatory agencies. Following magnetometer and sonar surveys and testing of each dredge area, permit drawings (showing any anomalies and "No Dredge Zones") will be prepared and submitted to the Corps. In addition to the permit drawings, lab results (confirming dredge material to be free of contaminants, and a letter from the State Historic Preservation Office (SHPO) confirming that dredging in the area has no adverse impact to cultural resources will be submitted for approval prior to the commencement of dredging in each borrow area. Regulatory compliance and permit modifications approved to date are listed above in Step 5 of 16.

Material for the sand berm segments located west of the Mississippi River will be taken from the Hopper Dredge Disposal Area (HDDA), Pass a Loutre Borrow Area A (see drawing), Cubits Gap, Pilottown and South Pass borrow areas. Material for the sand berm segments located east of the Mississippi River will be taken from Hewes Point (see drawing). Total length of the berm structure is approximately 38 miles for an estimated 8,513 acres of sand barrier in waters of the U.S.

### **The Plan**

- Mobilize U.S. dredges to create barrier sand berms to protect barrier islands and interior marshlands in coastal Louisiana.

- Stage the project to address areas that will complete critical barrier island segments first and thereby close shallow gaps between existing islands that would permit the flow of oil onto interior marshlands.
- Design the barriers to be built as quickly and efficiently as possible, to protect the seaward side of the islands while allowing for tidal exchanges through existing deepwater passes.
- Design and execute the project in stages to test the concept and refine the process.
- Expedite the issuance of environmental permitting through the powers inherent in the current emergency declaration.
- Implement a thorough and transparent monitoring process to ensure that project objectives are met and funds are spent according to the plan.

### **Benefits and Justification of the Plan**

- The transport of dredge material from the borrow locations to the location seaward of the existing barrier islands, and within the footprint of authorized CWPPRA projects Pelican Island in reach W-9 and Scofield Island in reach W-10, is consistent with the Louisiana Comprehensive Master Plan for a Sustainable Coast and the Plaquemines Parish Strategic Coastal Plan.
- The plan is designed to be non-intrusive relative to delicate inland marshland areas.
- The berm reaches are intended to provide a barrier to protect existing barrier islands and interior coastal marshlands from encroaching oil.
- A major benefit of the proposed barrier berm is that the sand berm will be easier to maintain and clean-up than marshlands in the event of oil penetration.
- The barrier berm will be far more robust and effective than the oil booms currently being used in clean-up and mitigation efforts.
- The sand berm will be developed using indigenous material to the area.
- It can be implemented in stages to control costs and ensure effectiveness
- The project reintroduces several million cubic yards of sand back into the littoral system.

### **Borrow Sources**

As mentioned above, material for the sand berm segments located west of the Mississippi River will be taken from the Hopper Dredge Disposal Area (HDDA), Pass a Loutre Borrow Area A (see drawing), Cubits Gap, Pilottown and South Pass borrow areas. Material for the sand berm segments located east of the Mississippi River will be taken from Hewes Point (see drawing). It should be noted that all borrow sources in the Mississippi River have previously been environmentally cleared, with the exception of Pass a Loutre Borrow Area A.

In advance of the submittal of the original emergency action request for this project, it was envisioned that the borrow area for the berm would be dredged from an alignment one mile seaward of the berm placement, assuming that the borrow area would parallel the alignment of the berm. After a preliminary review and discussions with regulatory agencies regarding the original request, the “parallel” borrow area concept was abandoned and it was agreed that the request would be resubmitted to show all borrow material for the sand berm to be dredged from locations approved by

the regulatory agencies. As stated above, all necessary topographic, cultural surveys and contamination testing will continue to be conducted and the results submitted to the appropriate regulatory agencies for approval prior to the commencement of dredging activities within the borrow areas.

Based on the estimates of borrow material from each of the borrow areas in the table shown below, there is more than ample material from these areas to construct the proposed sand berm.

<b>Berm Reaches</b>		
<b>Reach #</b>	<b>Reach Name</b>	<b>Berm Volume (CY)</b>
E-3	Curlew Island	5,620,000
E-4	Chandeleur Island	9,200,000
W-8	Shell Island	1,300,000
W-9	Pelican Island	2,573,000
W-10	Scofield Island	3,400,000
W-11	Sandy Point	1,600,000
<b>Total</b>		<b>23,693,000</b>

<b>Borrow Areas</b>		
<b>Borrow Source</b>	<b>Fill Destination</b>	<b>Volume of Sand (CY)</b>
Hewes Point		
CH-B	E-3 and E-4	3,200,000
CH-A	E-3 and E-4	5,800,000
HD-A	E-3 and E-4	9,200,000
Cubits Gap	W-8, W-9, W-10 and W-11	700,000
Pass a Loutre		
HDDA	W-8, W-9, W-10 and W-11	7,500,000
Area A	W-8, W-9, W-10 and W-11	8,800,000
Pilottown	W-8, W-9, W-10 and W-11	1,500,000
South Pass	W-8, W-9, W-10 and W-11	1,500,000
Misc. above Head of Passes	W-8, W-9, W-10 and W-11	1,900,000
<b>Total</b>		<b>40,100,000</b>

It is important to note that the total quantity of borrow material available from the sources listed above is not necessary to construct the sand berm proposed in this application. The final quantity of material to be excavated from each borrow area will be dependent of several factors (losses in multiple handling, material makeup, compaction ratios, etc.). The important comparison to make is that the final “in place” quantity for all reaches is 23.7 million cubic yards and the quantity available for the borrow areas being considered is 40.1 million cubic yards.

### **Borrow Area 6A**

From June 14, 2010 through June 22, 2010, Borrow Area 6A (located on the area map) was used as a temporary borrow site to begin work on the northernmost 2,000 L.F. of Reach E-4. On June 22, 2010, work was suspended at Borrow Area 6A and the dredge was moved to Reach CH-B at Hewes Point. The borrow basin at Area 6A has been backfilled with material from Borrow Area CH-B at Hewes Point. The USFWS has accepted the results of backfilling at 6A and the USACE considers restoration activities at 6A complete.

### **Berm Alignment**

The emergency permit request for the six (6) berm reaches in this application are for berm reaches located seaward of the current barrier islands. The footprint of all berms is to be placed in open water – completely within federal or state waterbottoms. Since filing of the emergency request, permit modifications have been approved to allow placement of the berm at two reaches, Reach W-9 (Pelican Island) and W-10 (Scofield Island), actually on the islands within the footprint of authorized CWPPRA projects. (The CWPPRA project for Pelican Island is previously permitted while the Scofield Island project is at the 30% design stage.) Another permit modification request for the southern section Reach E-4 has also been submitted to allow placement of the berm on Chandeleur Island as approved and specified by the U.S. Fish & Wildlife Service Special Use Permit as amended. The sand placed for these reaches would serve as a base for future, additional sand to be placed in the same area as a reclamation project by the State of Louisiana. Final authorization for relocation of the berms at W-9, W-10 and E-4 (if approved) from offshore to the current island footprint will continue to be coordinated with the Corps of Engineers and other regulatory agencies during the regular meetings being held as a part of the emergency action to review all conditions and compliance issues associated with the NOD-20 authorization.

### **Construction Methodology**

**Cutterhead Only:** For Reach E-4, the material will be pumped to the berm directly by a cutterhead dredge pumping the material from the approved borrow areas in Hewes Point. Once adjacent to the island, the sand is shaped into the final berm alignment using grader equipment. All work being performed by the equipment at the berm site will remain within the footprint of the berm section or seaward of the berm.

**Combination of Spider Barge, Scows and Cutterhead Dredge:** All other reaches (exclusive of E-4) will be constructed using cutterhead dredge pumping material from approved borrow sites (Hewes Point and HDDA, Pass a Loutre Area A, Cubits Gap, Pilottown and South Pass in the Mississippi River) to a spider barge which will supply scows. The scows will transport and deposit the material at pre-approved re-handling basins (35-E, 25-5, 25-E to the west and RH-2 and RH-3 to the east). Once in the rehandling areas, the material is moved via cutterhead dredges inland from the rehandling areas to the seaward side of the barrier islands. Once adjacent to the island, the sand is shaped into the final berm alignment using grader equipment. All equipment at the berm site work within the footprint of the berm section or seaward of the berm. (Note: The only exception to this method will occur on Reaches W-9, W-10 and

the southern section of E-4. For these reaches, the material will be placed in an alignment on the island within the footprint of a CWPPRA project or project currently under design for that island.)

**Material in Rehandling Areas**

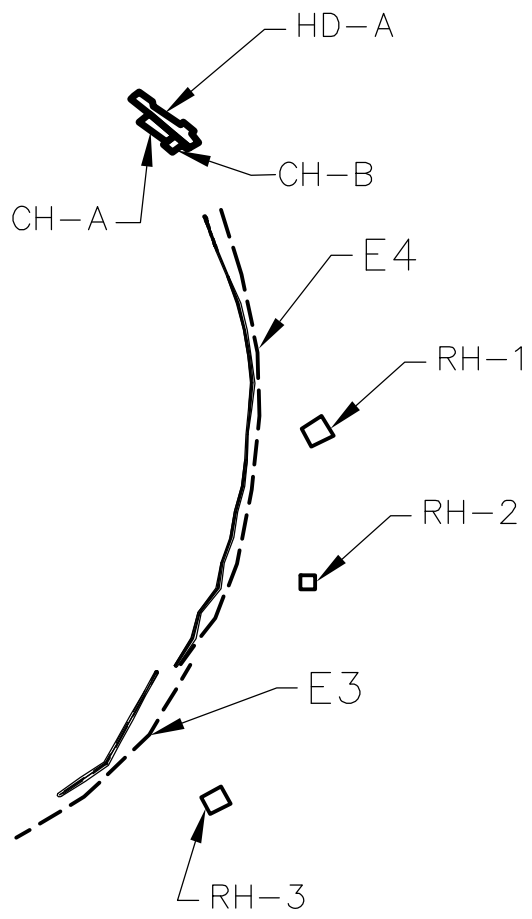
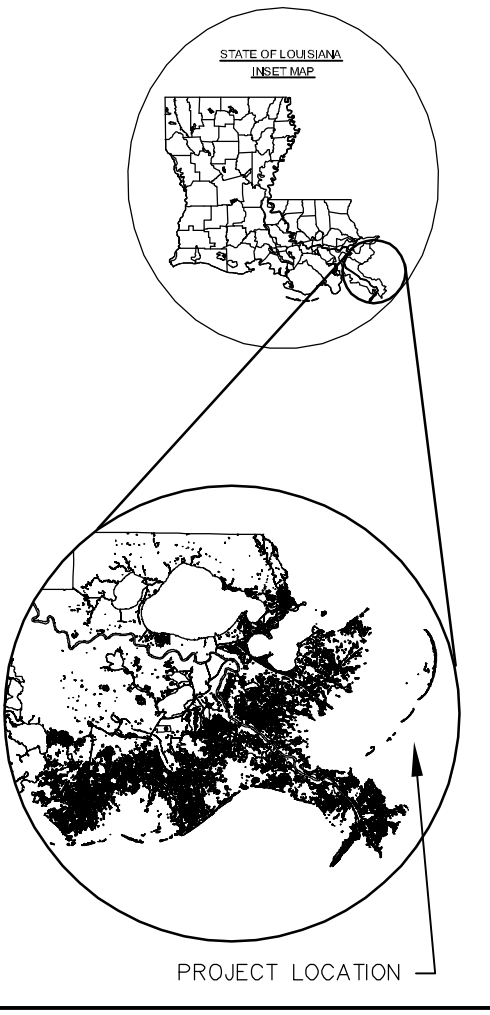
At the conclusion of the project, it is intended that all material deposited at the rehandling areas will be removed, taking into consideration loss factors due to multiple handling. The USACE requires that any material remaining at the rehandling areas does not impede navigation; it is intended that this minimum requirement will be sufficiently satisfied.

**Detection and Removal of Oil**

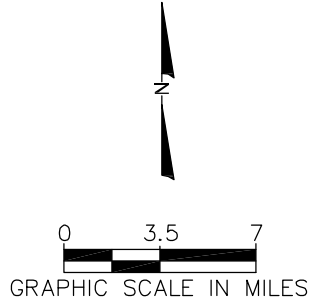
It is the responsibility of Incident Command to monitor areas affected by the oil spill and report oil sightings. Furthermore, it is the responsibility of Incident Command to instruct their SCAT teams to adequately remove and appropriately dispose all oil contaminated material from the berms. Any oil sighted on the berms by construction crews will be reported to the appropriate authorities.

## **Step 12 of 16: Affected Landowners**

All berm reaches, borrow sites, and re-handling areas will be located in open water owned by the State of Louisiana or the Federal Government with the exception of Reaches W-9 and W-10. Because the berm crosses ownership tracts, the list of “Affected Landowners” and “Adjacent Landowners” is the same list; therefore, the list of names shown in Step 7 is the same for Step 12 of the application.



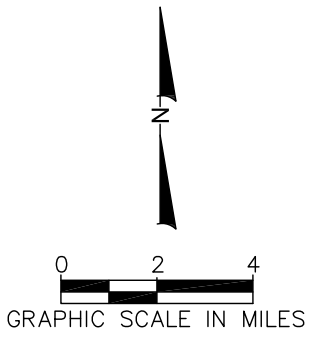
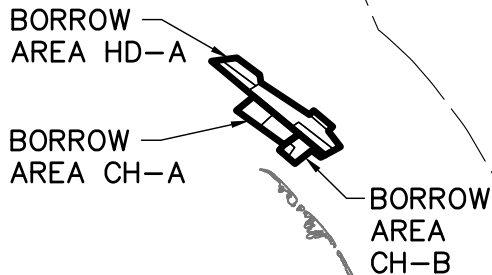
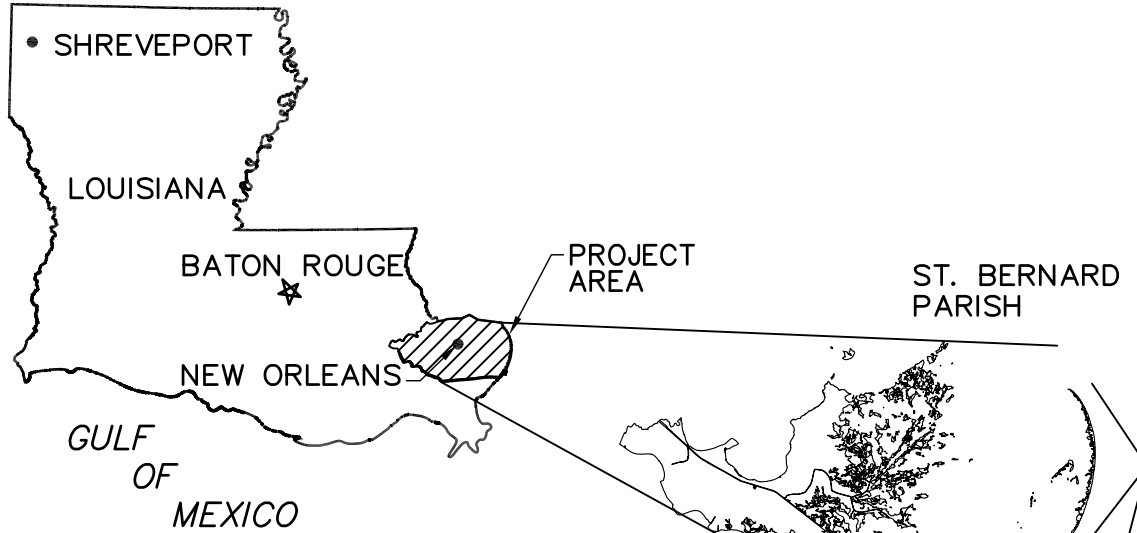
GULF  
OF  
MEXICO



**LEGEND:**  
 ————— REVISED FOOTPRINT  
 - - - - - INITIALLY PROPOSED REACH

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	REACHES E3 TO E4 <b>EMERGENCY PERMIT</b>	LOCATION MAP
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 10/19/10 SHEET 1 OF 1

# BORROW AREAS CH-A, CH-B, HD-A (CHANDELEUR ISLAND) EMERGENCY PERMIT E4



CHANDELEUR ISLAND  
(2007 SHORELINE  
FROM LIDAR)

CHANDELEUR ISLAND  
(2004 SHORELINE  
FROM AERIAL)

FEDERAL  
STATE  
BOUNDARY

GULF  
OF  
MEXICO

## SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PLAN VIEW BATHYMETRY
3	PLAN VIEW SEISMIC REFLECTOR
4-6	PROJECT CROSS SECTIONS
7	CULTURAL RESOURCE AREAS

LOCATION MAP

BORROW AREAS CH-A, CH-B, HD-A  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT E4

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 7/08/10

SHEET 1 OF 7

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 CH-A CH-B HD-A revised 092210 lat long tables.dwg - Sep 23, 2010 @ 9:29am - kdemins

E 4053600

E 4060800

E 4068000

APPROXIMATE VOLUMES:  
CH-A = 5.8 MCY  
CH-B = 3.2 MCY  
HD-A = 9.2 MCY

NODE_ID	LONGITUDE	LATITUDE
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2	88 52 41.21384	30 04 16.33755
3	88 52 16.13831	30 03 57.41431
4	88 51 45.51476	30 03 34.29968
5	88 52 04.47345	30 03 22.89669
6	88 52 35.08091	30 03 42.95123
7	88 52 10.67183	30 03 17.17711
8	88 51 59.28486	30 03 26.01762
9	88 51 51.37284	30 03 19.77260
10	88 52 00.24156	30 03 09.06918
11	88 51 51.35048	30 03 02.13161
12	88 51 30.16238	30 03 16.11906
13	88 51 19.00391	30 03 08.30455
14	88 51 14.00683	30 03 10.53172
15	88 51 01.57308	30 03 16.07296
16	88 51 45.65984	30 03 47.24052
17	88 51 55.43687	30 03 41.79965
18	88 50 54.10375	30 03 19.40159
19	88 51 08.79200	30 03 36.77709
20	88 51 03.69669	30 03 41.10114
21	88 51 26.65549	30 03 59.45613
22	88 51 32.13750	30 03 55.16742
23	88 52 31.92021	30 04 31.09191
24	88 52 33.16386	30 04 39.60394
25	88 53 01.35207	30 04 58.73208
26	88 53 12.67233	30 04 51.03723
27	88 53 33.21688	30 04 55.55681
28	88 52 48.96985	30 04 22.18837
29	88 52 38.25755	30 04 27.78261
30	88 53 21.15424	30 04 56.75908

GULF OF MEXICO

N 583200

PROJECT PLAN VIEW  
BATHYMETRY IN FT., NAVD88

DATE: 9/22/10

SHEET 2 OF 7

BORROW AREAS CH-A, CH-B, HD-A  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT E4

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

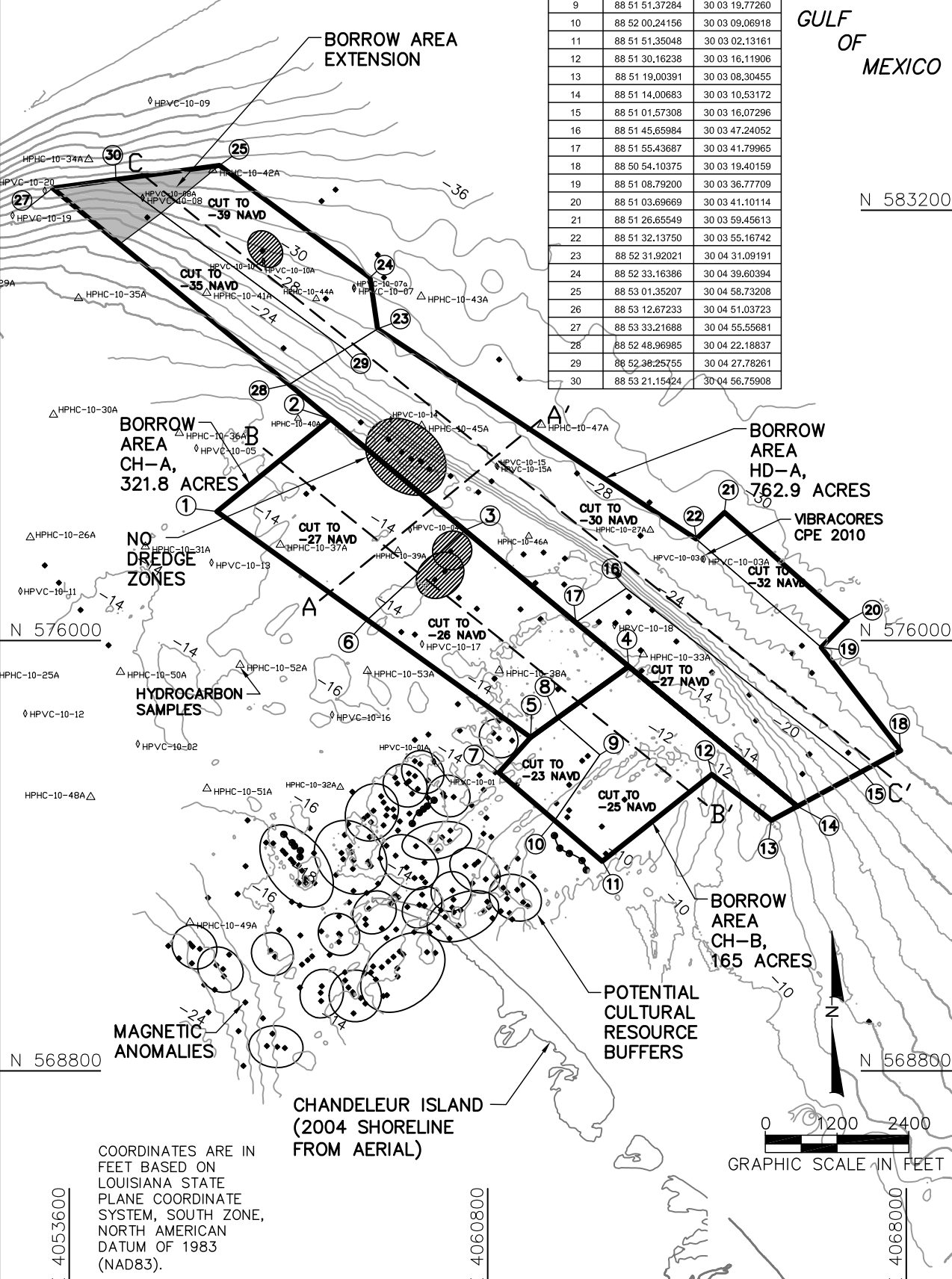
OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:



N 576000

N 576000

N 568800

N 568800

E 4053600

E 4060800

E 4068000

COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 CH-A CH-B HD-A revised 092210 lat long tables.dwg - Sep 23, 2010 @ 9:31am - kdemris

E 4053600

E 4060800

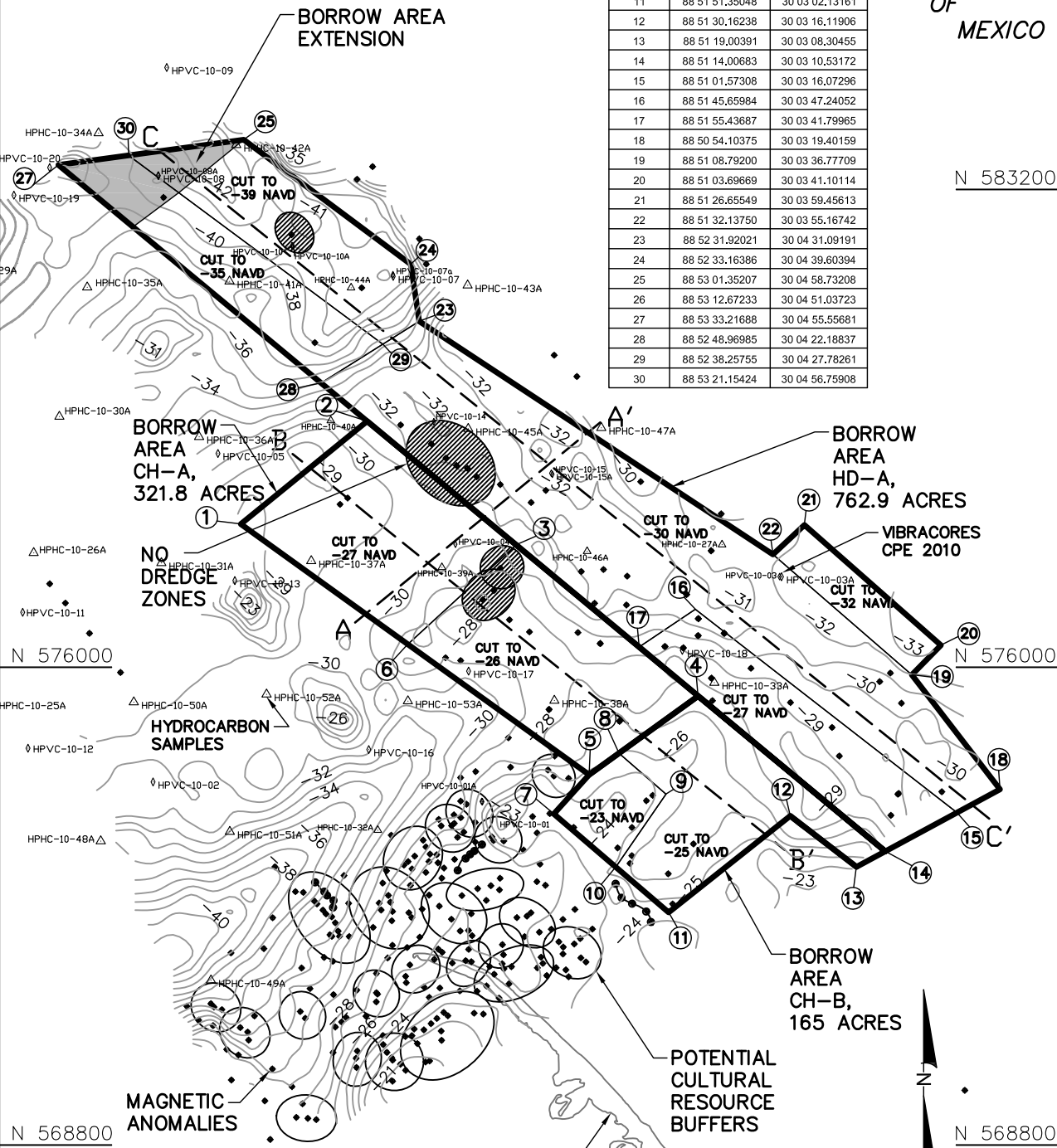
E 4068000

APPROXIMATE VOLUMES:  
CH-A = 5.8 MCY  
CH-B = 3.2 MCY  
HD-A = 9.2 MCY

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1	88 53 03.26238	30 04 01.41261
2	88 52 41.21384	30 04 16.33755
3	88 52 16.13831	30 03 57.41431
4	88 51 45.51476	30 03 34.29968
5	88 52 04.47345	30 03 22.89669
6	88 52 35.08091	30 03 42.95123
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11	88 51 51.35048	30 03 02.13161
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13	88 51 19.00391	30 03 08.30455
14	88 51 14.00683	30 03 10.53172
15	88 51 01.57308	30 03 16.07296
16	88 51 45.65984	30 03 47.24052
17	88 51 55.43687	30 03 41.79965
18	88 50 54.10375	30 03 19.40159
19	88 51 08.79200	30 03 36.77709
20	88 51 03.69669	30 03 41.10114
21	88 51 26.65549	30 03 59.45613
22	88 51 32.13750	30 03 55.16742
23	88 52 31.92021	30 04 31.09191
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27	88 53 33.21688	30 04 55.55681
28	88 52 48.96985	30 04 22.18837
29	88 52 38.25755	30 04 27.78261
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GULF OF MEXICO

N 583200



N 576000

N 576000

N 568800

N 568800

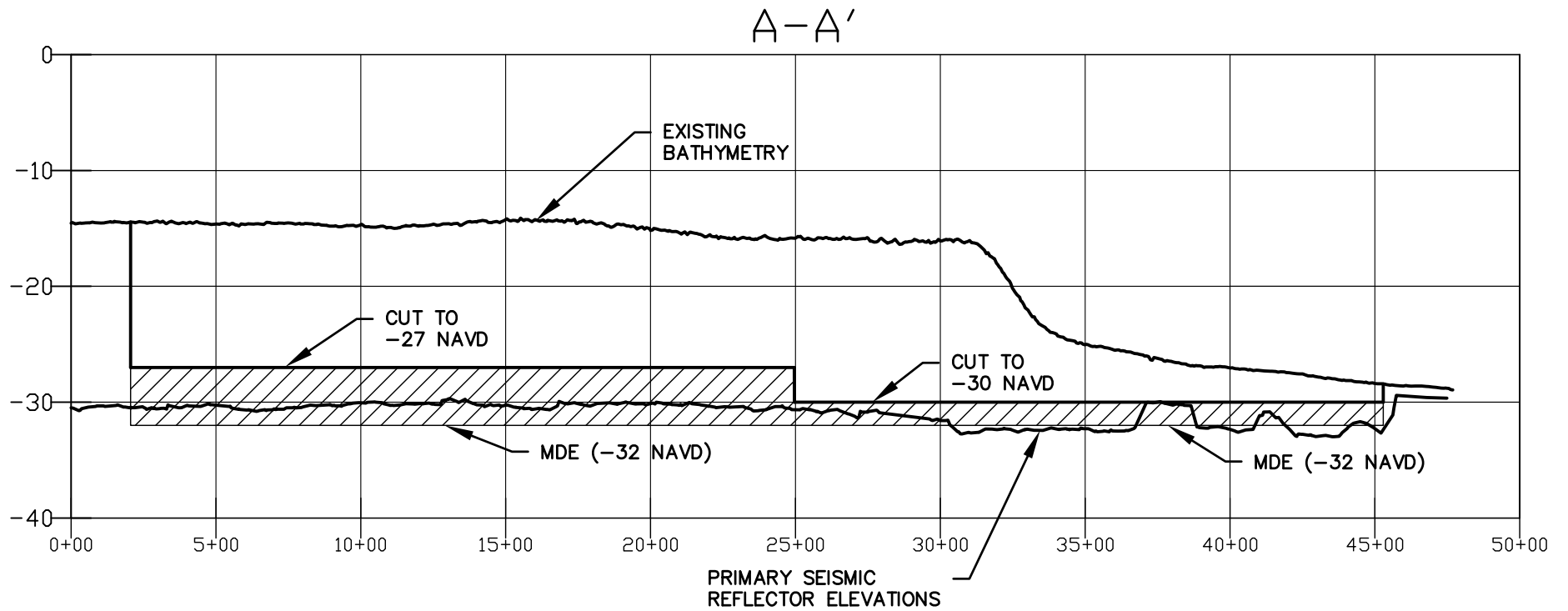
COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

E 4053600

E 4060800

E 4068000

<b>PROJECT PLAN VIEW</b> <b>PRIMARY SEISMIC REFLECTOR ELEVATIONS IN FT, NAVD88</b>	DATE: 9/22/10 SHEET 3 OF 7
	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
<b>BORROW AREAS CH-A, CH-B, HD-A (CHANDELEUR ISLAND) EMERGENCY PERMIT E4</b>	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
<b>APPLICATION BY:</b> OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>DESIGNED BY:</b>  <b>APPROVED BY:</b>  <b>DRAWN BY:</b>



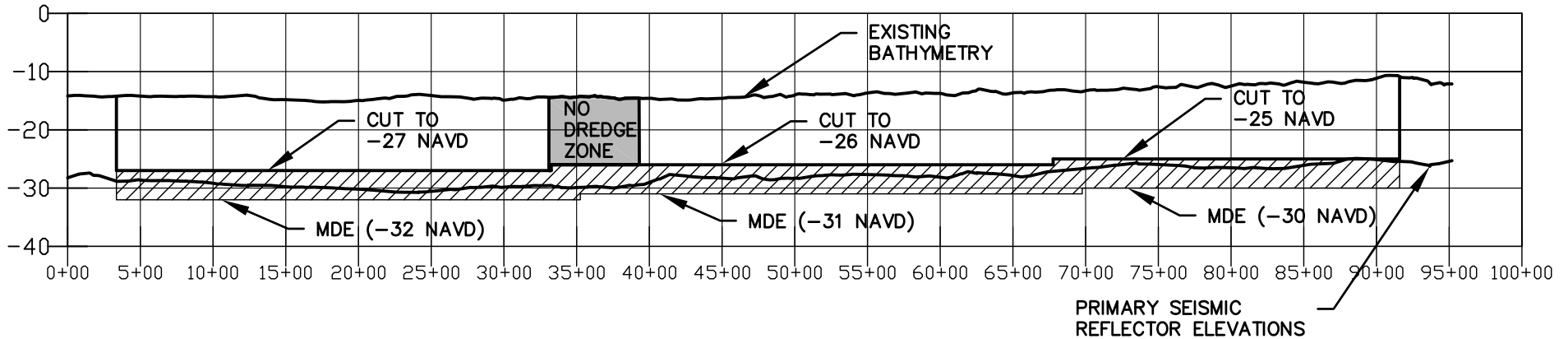
**NOTES:**

1. SEE SHEETS 2-3 FOR LOCATION OF CROSS SECTION LINES.
2. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88).
3. MEAN HIGH WATER = 1.3 FT NAVD88.
4. MEAN LOW WATER = -0.2 FT NAVD88.

 MAXIMUM DEPTH OF EQUIPMENT (MDE)

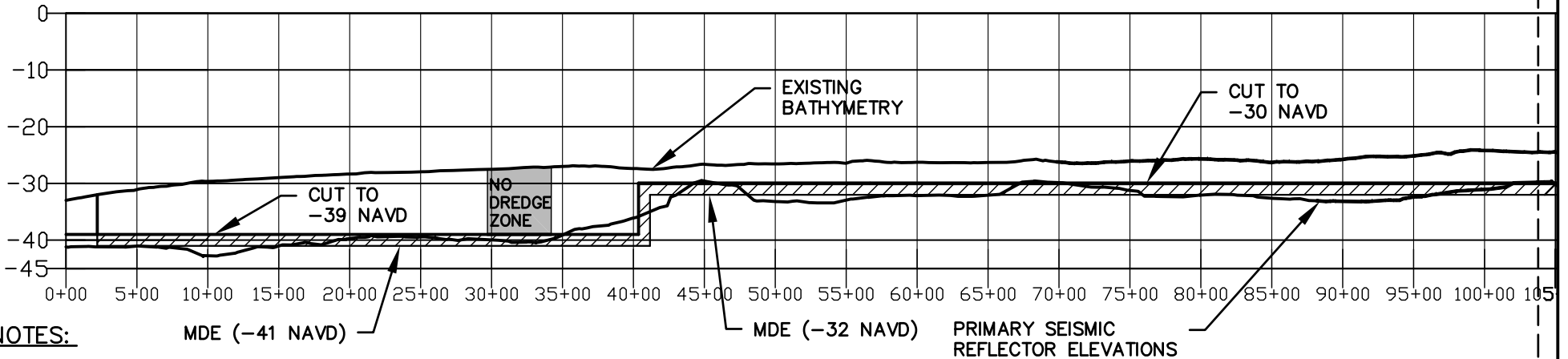
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BORROW AREAS CH-A, CH-B, HD-A (CHANDELEUR ISLAND) EMERGENCY PERMIT E4	PROJECT CROSS SECTIONS STATE PROJECT NUMBER: DATE: 9/29/10
DRAWN BY:	DESIGNED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER: SHEET 4 OF 7

B-B'



C-C'  
CONTINUED  
ON SHEET 6

C-C'

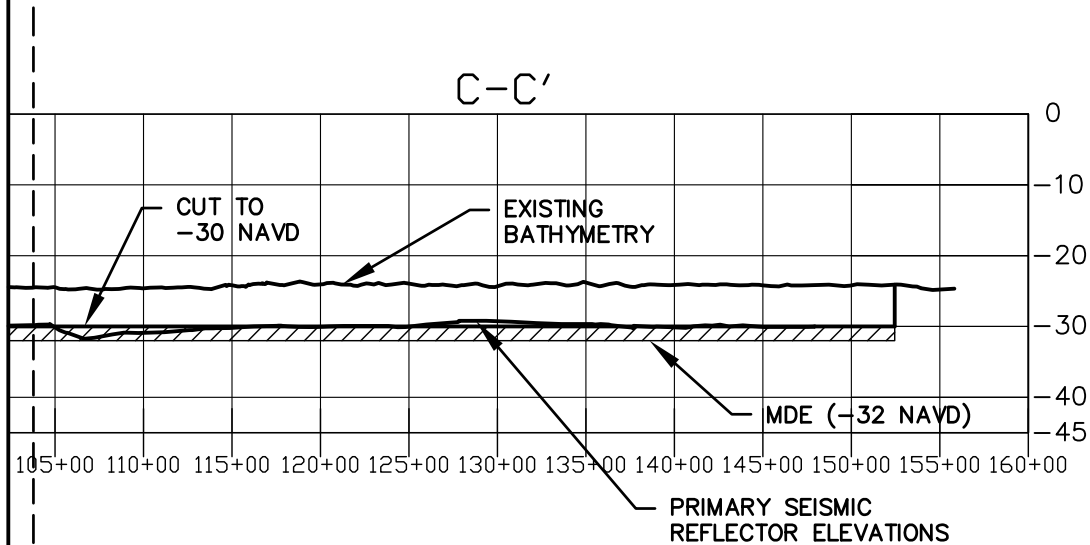


NOTES:

1. SEE SHEETS 2-3 FOR LOCATION OF CROSS SECTION LINES.
2. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88).
3. MEAN HIGH WATER = 1.3 FT NAVD88.
4. MEAN LOW WATER = -0.2 FT NAVD88.

 MAXIMUM DEPTH OF EQUIPMENT (MDE)

APPLICATION BY:  OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BORROW AREAS CH-A, CH-B, HD-A (CHANDELEUR ISLAND) EMERGENCY PERMIT E4  STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	PROJECT CROSS SECTIONS  DATE: 9/29/10
DRAWN BY:	DESIGNED BY:	APPROVED BY:	SHEET 5 OF 7



**NOTES:**

1. SEE SHEETS 2-3 FOR LOCATION OF CROSS SECTION LINES.
2. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88).
3. MEAN HIGH WATER = 1.3 FT NAVD88.
4. MEAN LOW WATER = -0.2 FT NAVD88.

 MAXIMUM DEPTH OF EQUIPMENT (MDE)

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>BORROW AREAS CH-A, CH-B, HD-A                  (CHANDELEUR ISLAND)                  EMERGENCY PERMIT E4</b>	<b>PROJECT CROSS SECTIONS</b>	
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	DATE: 9/29/10  SHEET 6 OF 7

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 CH-A CH-B HD-A revised 092210 lat\_long.tbl.dwg - Sep 29, 2010 @ 2:51pm - kdennis

E 4053600

E 4060800

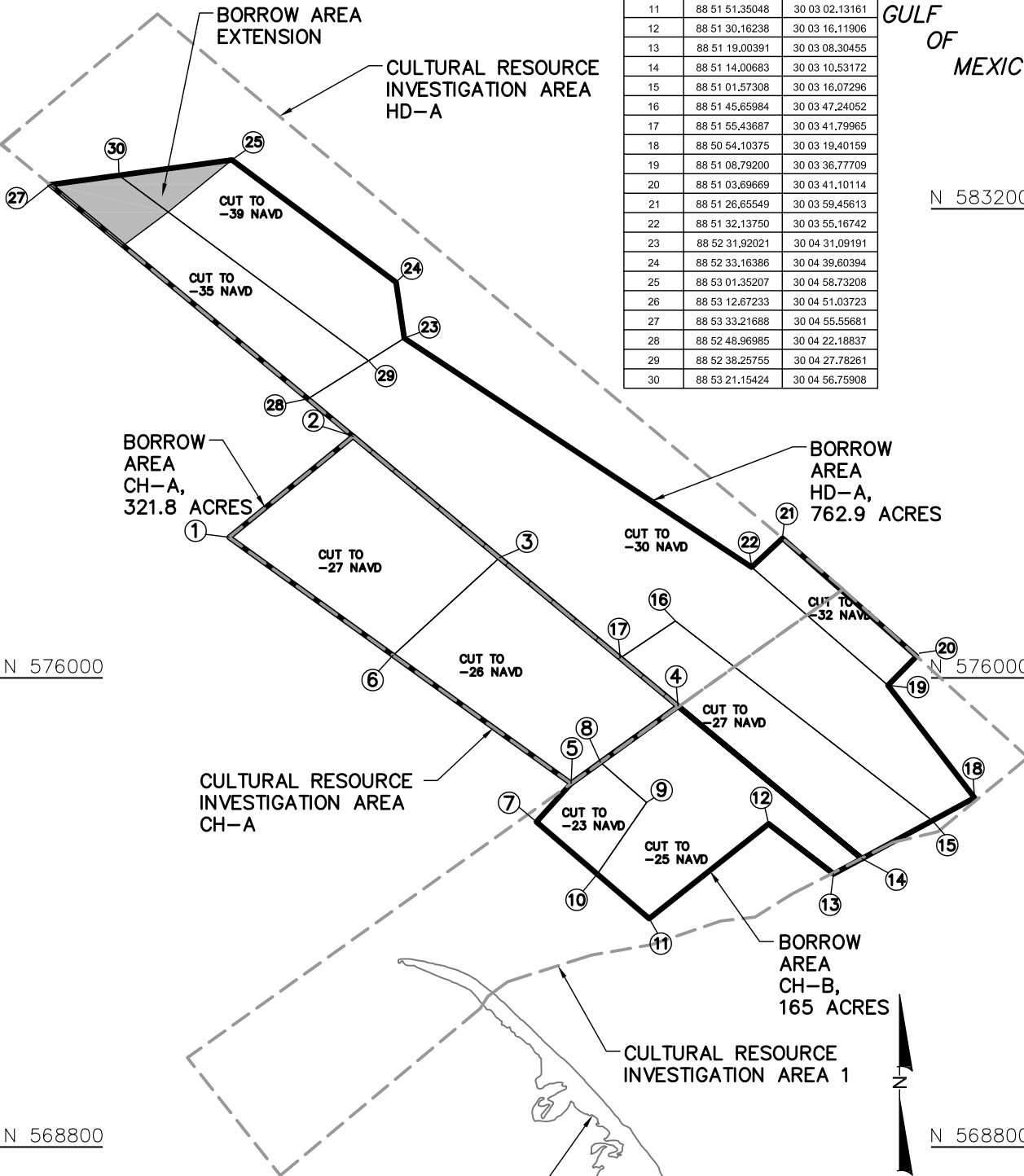
E 4068000

APPROXIMATE  
VOLUMES:  
CH-A = 5.8 MCY  
CH-B = 3.2 MCY  
HD-A = 9.2 MCY

NODE_ID	LONGITUDE	LATITUDE
1	88 53 03.26238	30 04 01.41261
2	88 52 41.21384	30 04 16.33755
3	88 52 16.13831	30 03 57.41431
4	88 51 45.51476	30 03 34.29968
5	88 52 04.47345	30 03 22.89669
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8	88 51 59.28486	30 03 26.01762
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14	88 51 14.00683	30 03 10.53172
15	88 51 01.57308	30 03 16.07296
16	88 51 45.65984	30 03 47.24052
17	88 51 55.43687	30 03 41.79965
18	88 50 54.10375	30 03 19.40159
19	88 51 08.79200	30 03 36.77709
20	88 51 03.69669	30 03 41.10114
21	88 51 26.65549	30 03 59.45613
22	88 51 32.13750	30 03 55.16742
23	88 52 31.92021	30 04 31.09191
24	88 52 33.16386	30 04 39.60394
25	88 53 01.35207	30 04 58.73208
26	88 53 12.67233	30 04 51.03723
27	88 53 33.21688	30 04 55.55681
28	88 52 48.96985	30 04 22.18837
29	88 52 38.25755	30 04 27.78261
30	88 53 21.15424	30 04 56.75908

GULF OF MEXICO

N 583200



N 576000

N 576000

N 568800

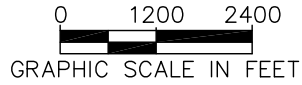
N 568800

COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

E 4053600

E 4060800

E 4068000



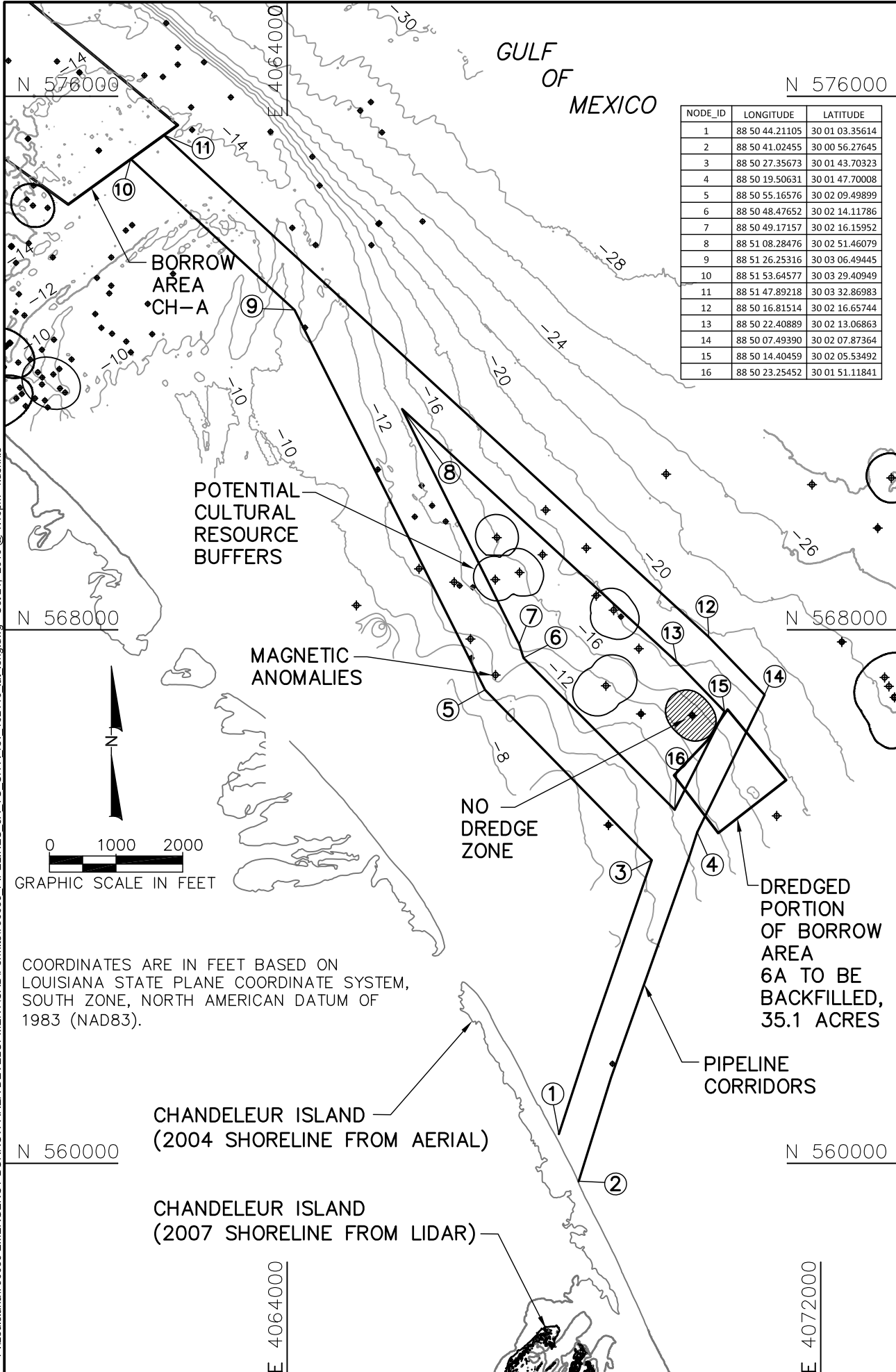
CULTURAL RESOURCE AREAS LOCATION MAP  
DATE: 9/22/10  
SHEET 7 OF 7

BORROW AREAS CH-A, CH-B, HD-A (CHANDELEUR ISLAND) EMERGENCY PERMIT E4  
STATE PROJECT NUMBER:  
FEDERAL PROJECT NUMBER:

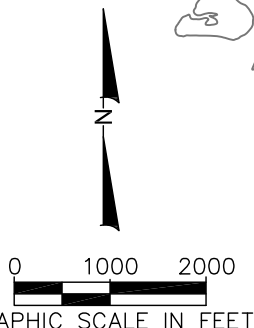
OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DESIGNED BY:  
APPROVED BY:  
DRAWN BY:  
APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 PIPELINES 6A\_TO\_CH-A\_rev\_102110\_lat\_long.dwg - Oct 21, 2010 @ 1:10pm - kdennis



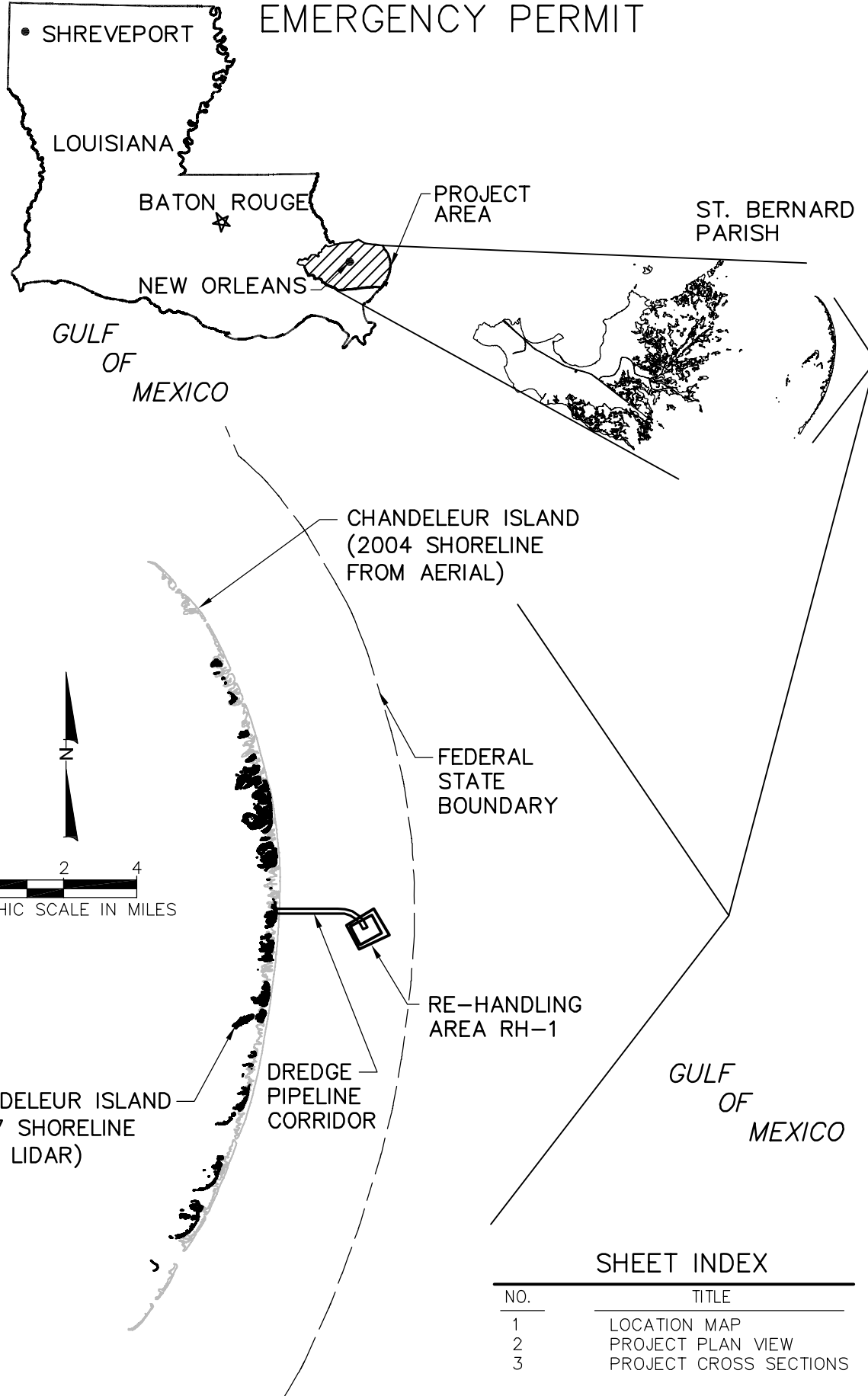
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6	88 50 48.47652	30 02 14.11786
7	88 50 49.17157	30 02 16.15952
8	88 51 08.28476	30 02 51.46079
9	88 51 26.25316	30 03 06.49445
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11	88 51 47.89218	30 03 32.86983
12	88 50 16.81514	30 02 16.65744
13	88 50 22.40889	30 02 13.06863
14	88 50 07.49390	30 02 07.87364
15	88 50 14.40459	30 02 05.53492
16	88 50 23.25452	30 01 51.11841



COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

<b>PROJECT PLAN VIEW</b> <b>BATHYMETRY IN FT., NAVD88</b>	<b>AREA TO BE BACKFILLED</b> <b>(PREVIOUS BORROW AREA 6A)</b> <b>(CHANDELEUR ISLAND)</b> <b>EMERGENCY PERMIT E4</b>	DATE: 6/24/10 SHEET 1 OF 1
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DRAWN BY:	

# RE-HANDLING AREA RH-1 (CHANDELEUR ISLAND) EMERGENCY PERMIT



**LOCATION MAP**

**RE-HANDLING AREA RH-1  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT**

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 6/27/10

SHEET 1 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

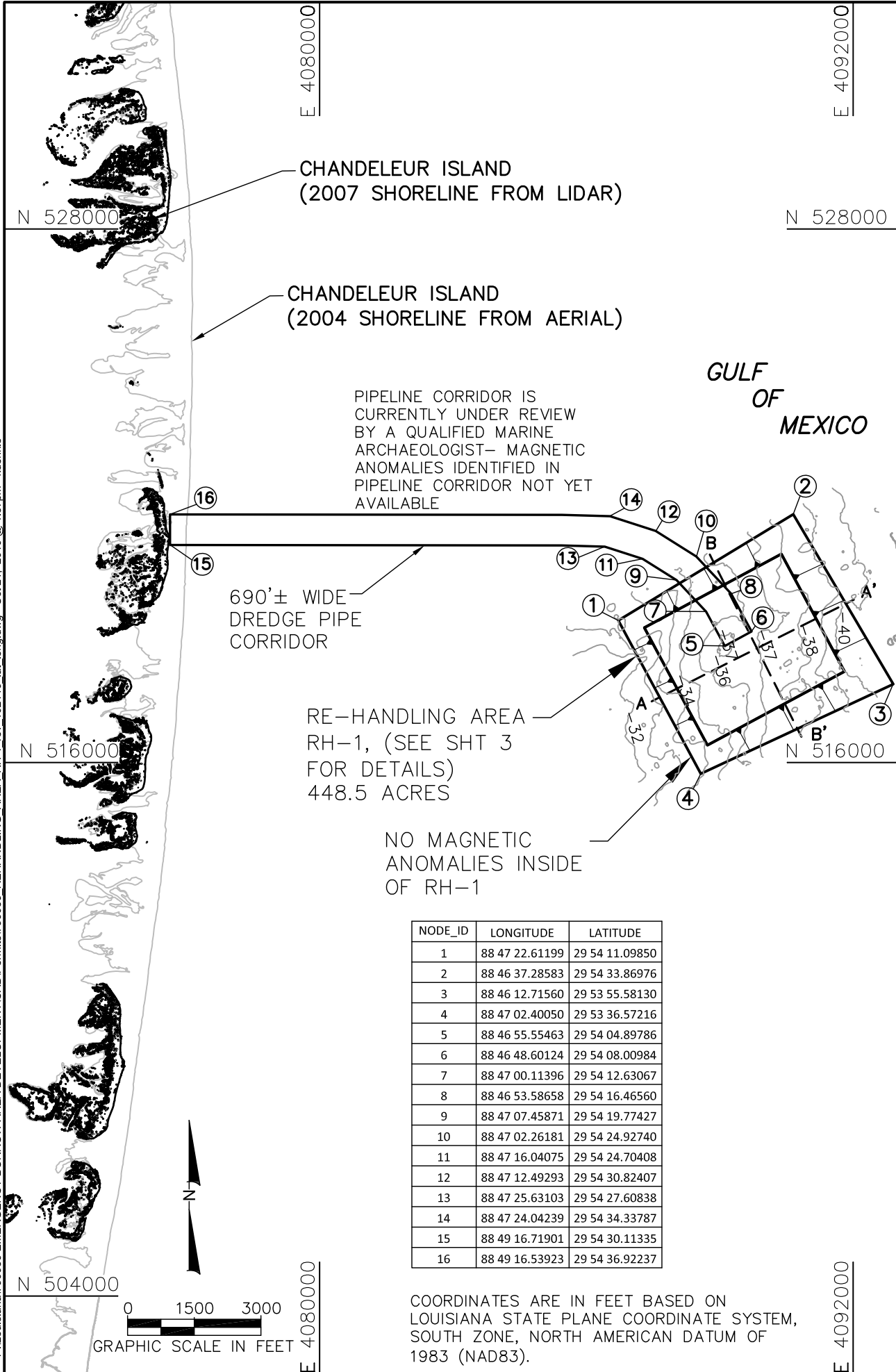
DRAWN BY:

### SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PROJECT PLAN VIEW
3	PROJECT CROSS SECTIONS



P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 REHANDLING AREA RH-1 rev 102110 lat long.dwg - Oct 21, 2010 @ 1:37pm - kdennis



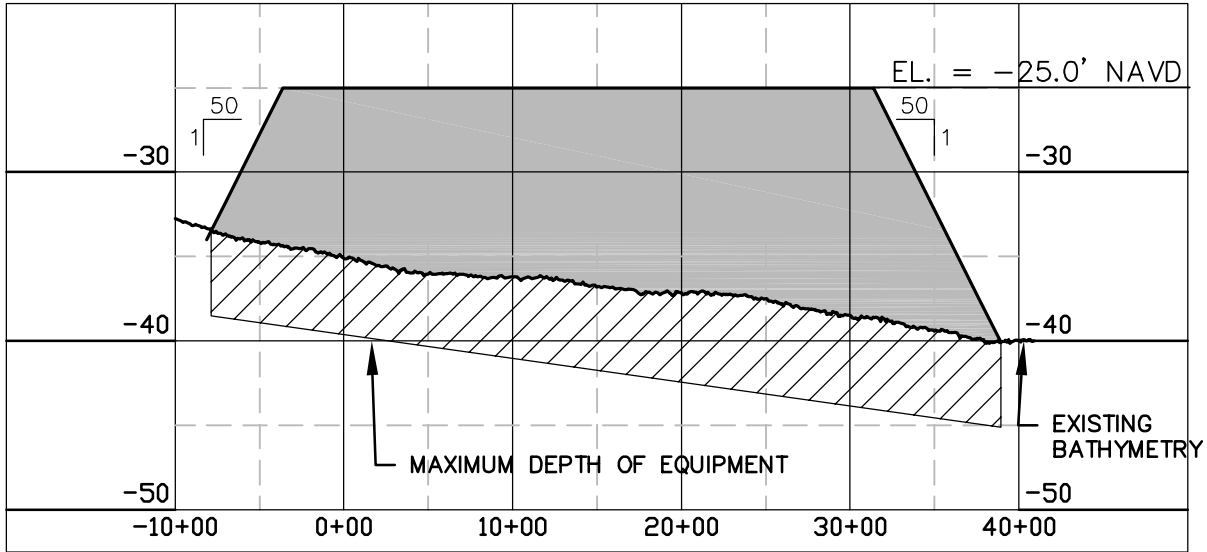
NODE_ID	LONGITUDE	LATITUDE
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2	88 46 37.28583	29 54 33.86976
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5	88 46 55.55463	29 54 04.89786
6	88 46 48.60124	29 54 08.00984
7	88 47 00.11396	29 54 12.63067
8	88 46 53.58658	29 54 16.46560
9	88 47 07.45871	29 54 19.77427
10	88 47 02.26181	29 54 24.92740
11	88 47 16.04075	29 54 24.70408
12	88 47 12.49293	29 54 30.82407
13	88 47 25.63103	29 54 27.60838
14	88 47 24.04239	29 54 34.33787
15	88 49 16.71901	29 54 30.11335
16	88 49 16.53923	29 54 36.92237

COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

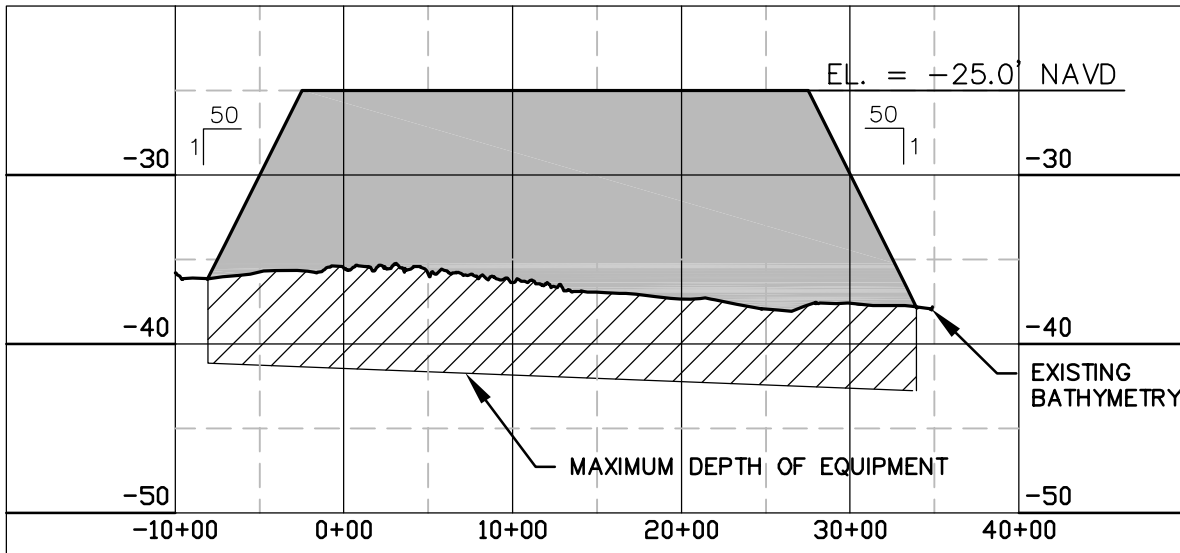
<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> <small>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</small>	<b>RE-HANDLING AREA RH-1 (CHANDELEUR ISLAND) EMERGENCY PERMIT</b>	<b>PLAN VIEW MAP BATHYMETRY IN FT, NAVD88</b>
DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 6/27/10
APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 2 OF 3
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		

P:\Louisiana\7900038 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\7900038 REHANDLING AREA RH-1.dwg - Jul 01, 2010 @ 11:29am - kdennis

**A-A'**



**B-B'**



 MAXIMUM DEPTH OF EQUIPMENT (MDE)

ELEVATIONS REFERENCED TO FT, NAVD88

**PROJECT CROSS SECTIONS**

**RE-HANDLING AREA RH-1  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT**

DATE: 6/27/10

SHEET 3 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

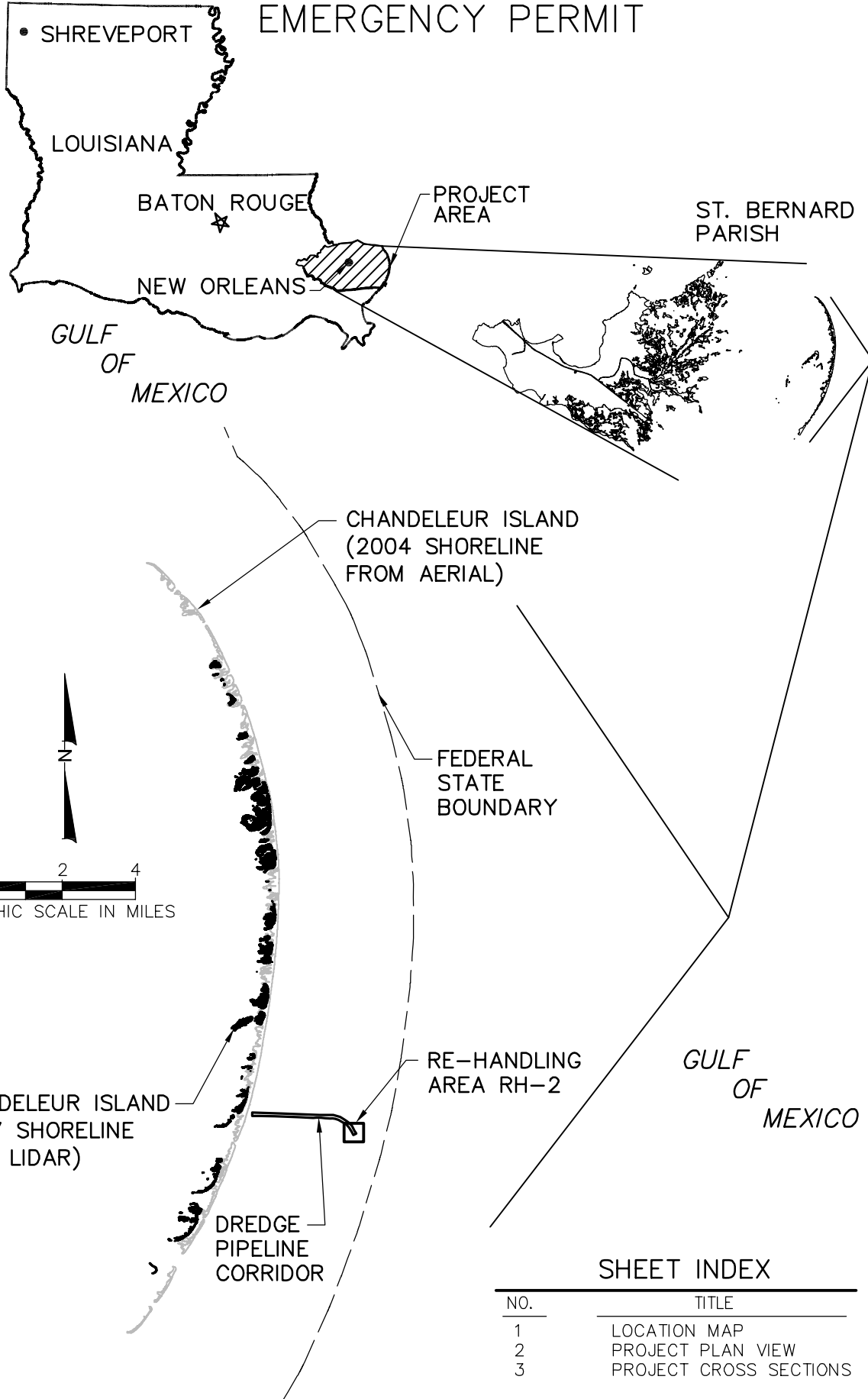
DESIGNED BY:

APPLICATION BY:

OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:

# RE-HANDLING AREA RH-2 (CHANDELEUR ISLAND) EMERGENCY PERMIT



**LOCATION MAP**

DATE: 6/27/10  
SHEET 1 OF 3

**RE-HANDLING AREA RH-2  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT**

STATE PROJECT NUMBER:  
FEDERAL PROJECT NUMBER:

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

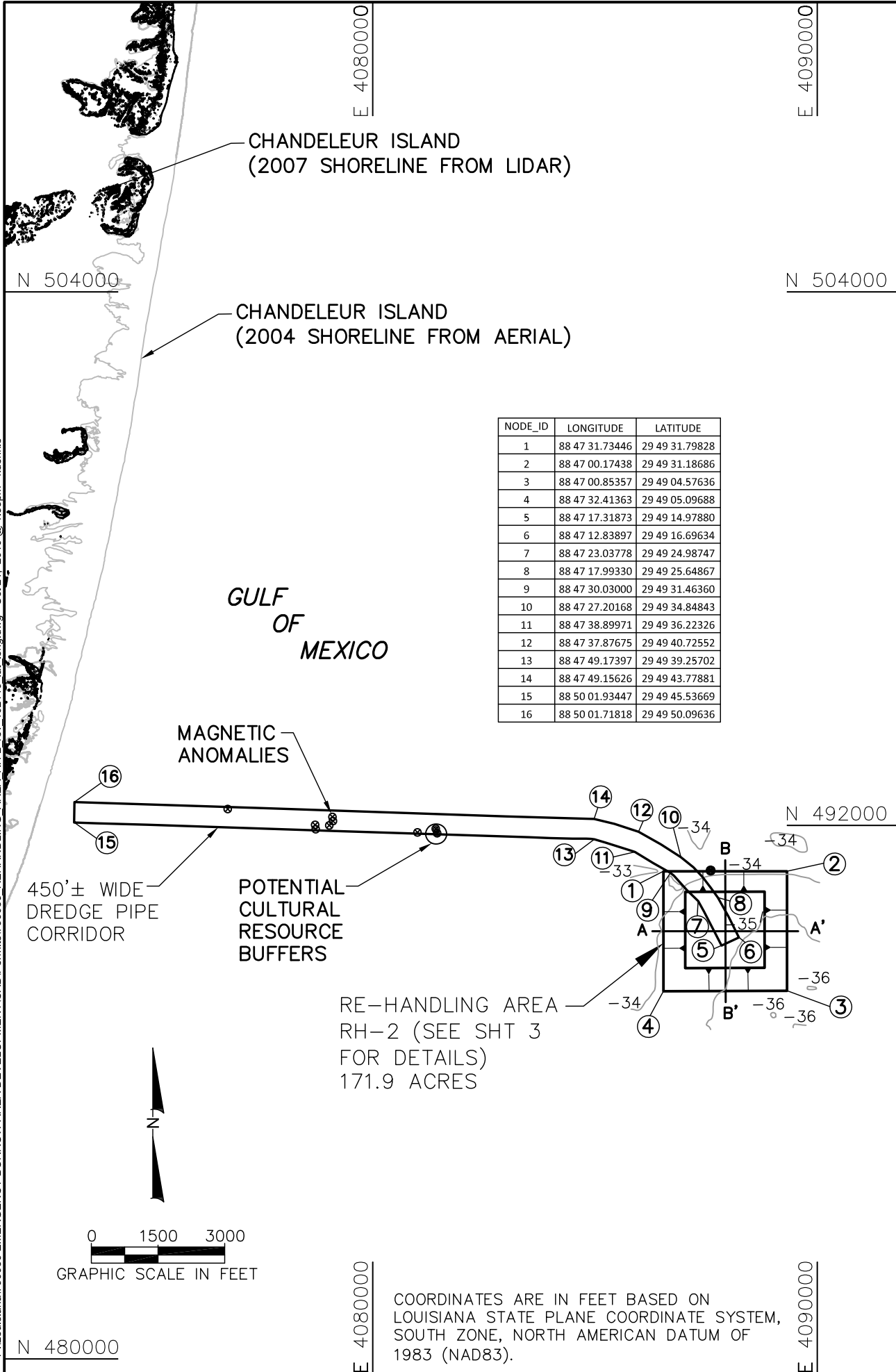
APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DESIGNED BY:  
DRAWN BY:

### SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PROJECT PLAN VIEW
3	PROJECT CROSS SECTIONS

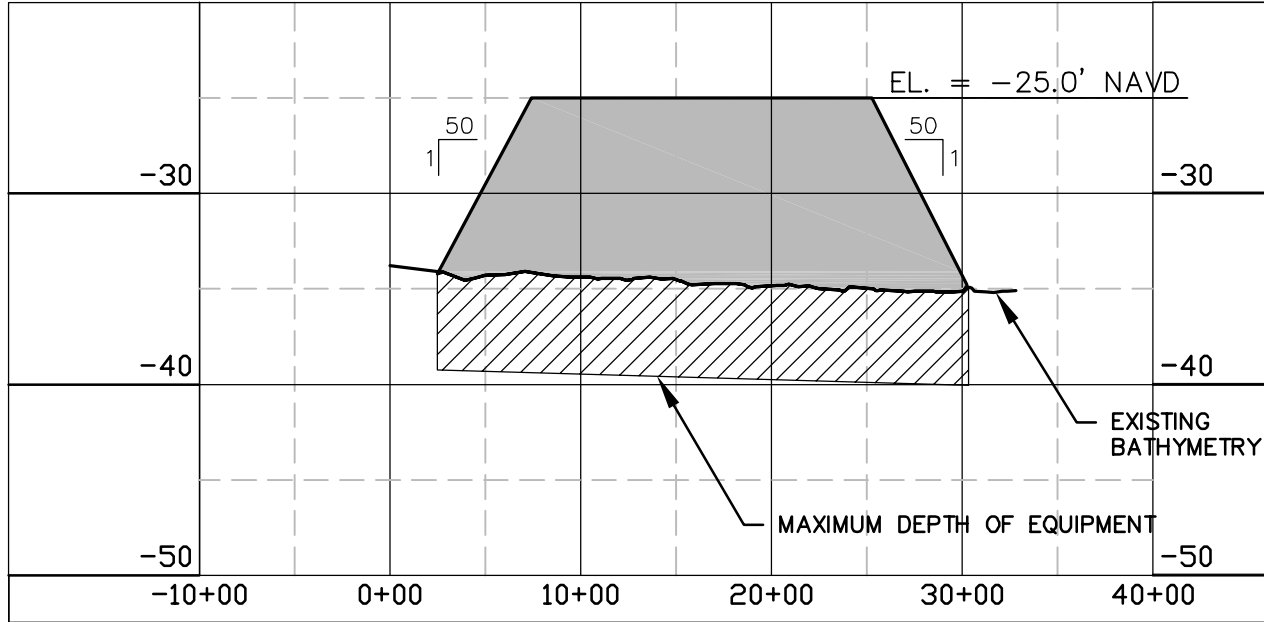
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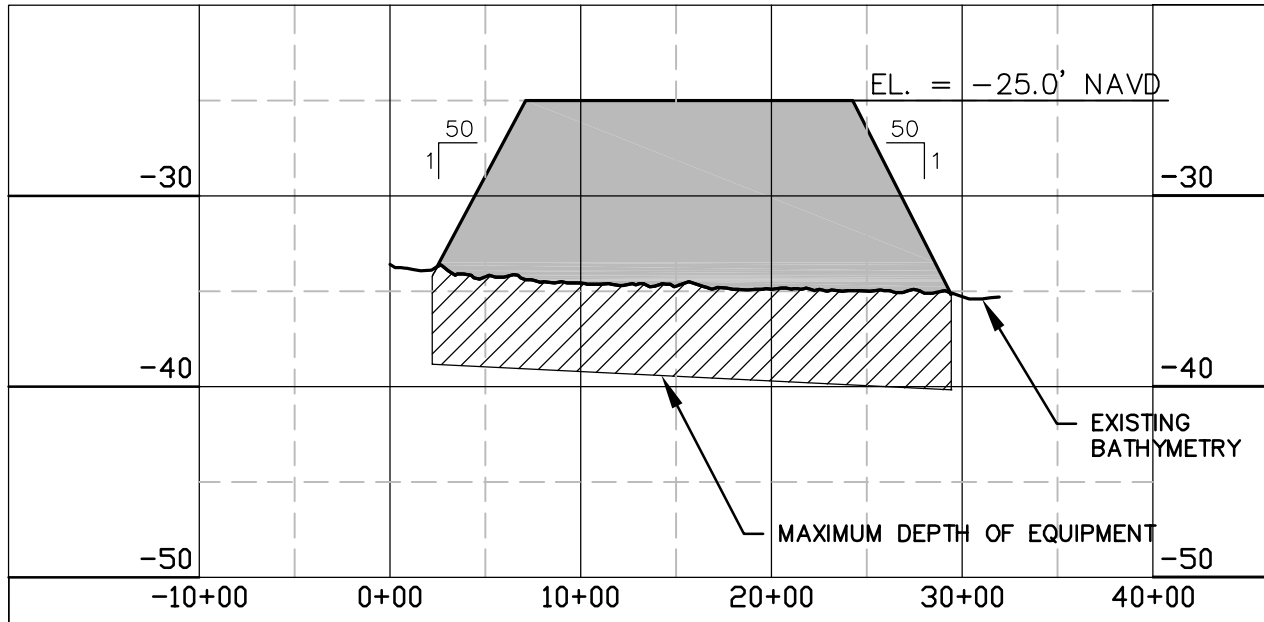
<p>PLAN VIEW MAP BATHYMETRY IN FT, NAVD88</p>	<p>RE-HANDLING AREA RH-2 (CHANDELEUR ISLAND) EMERGENCY PERMIT</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 6/27/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>APPROVED BY:</p>
<p>SHEET 2 OF 3</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DRAWN BY:</p>	<p>APPROVED BY:</p>


P:\Louisiana\790038 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790038 REHANDLING AREA RH-2.dwg - Jul 01, 2010 @ 11:33am - kdennis

A-A'



B-B'



 MAXIMUM DEPTH OF EQUIPMENT (MDE)  
 ELEVATIONS REFERENCED TO FT, NAVD88

PROJECT CROSS SECTIONS

RE-HANDLING AREA RH-2  
 (CHANDELEUR ISLAND)  
 EMERGENCY PERMIT

DATE: 6/27/10

SHEET 3 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

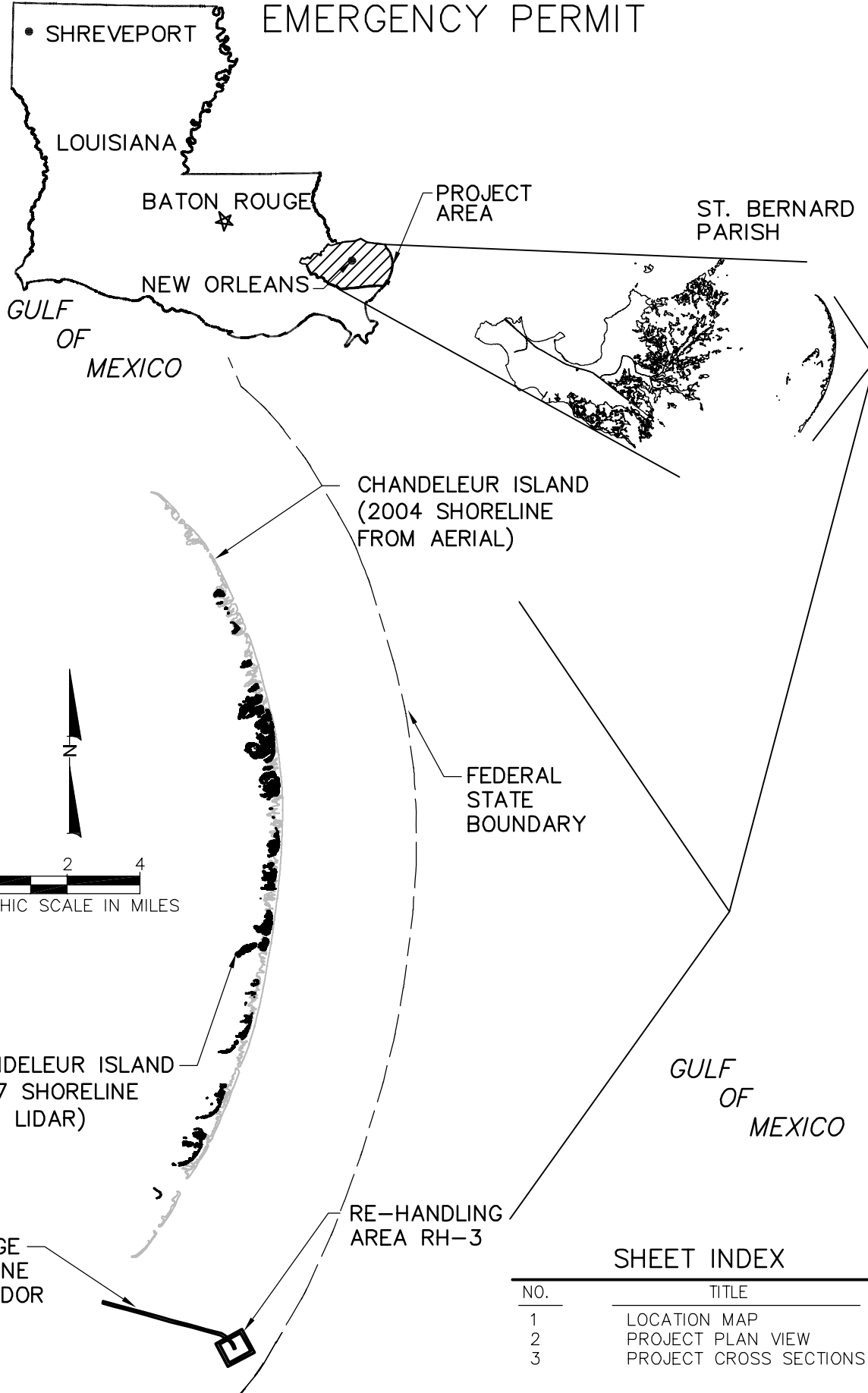
APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY:

# RE-HANDLING AREA RH-3 (CHANDELEUR ISLAND) EMERGENCY PERMIT



**LOCATION MAP**

**RE-HANDLING AREA RH-3  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT**

**OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 7/12/10

SHEET 1 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

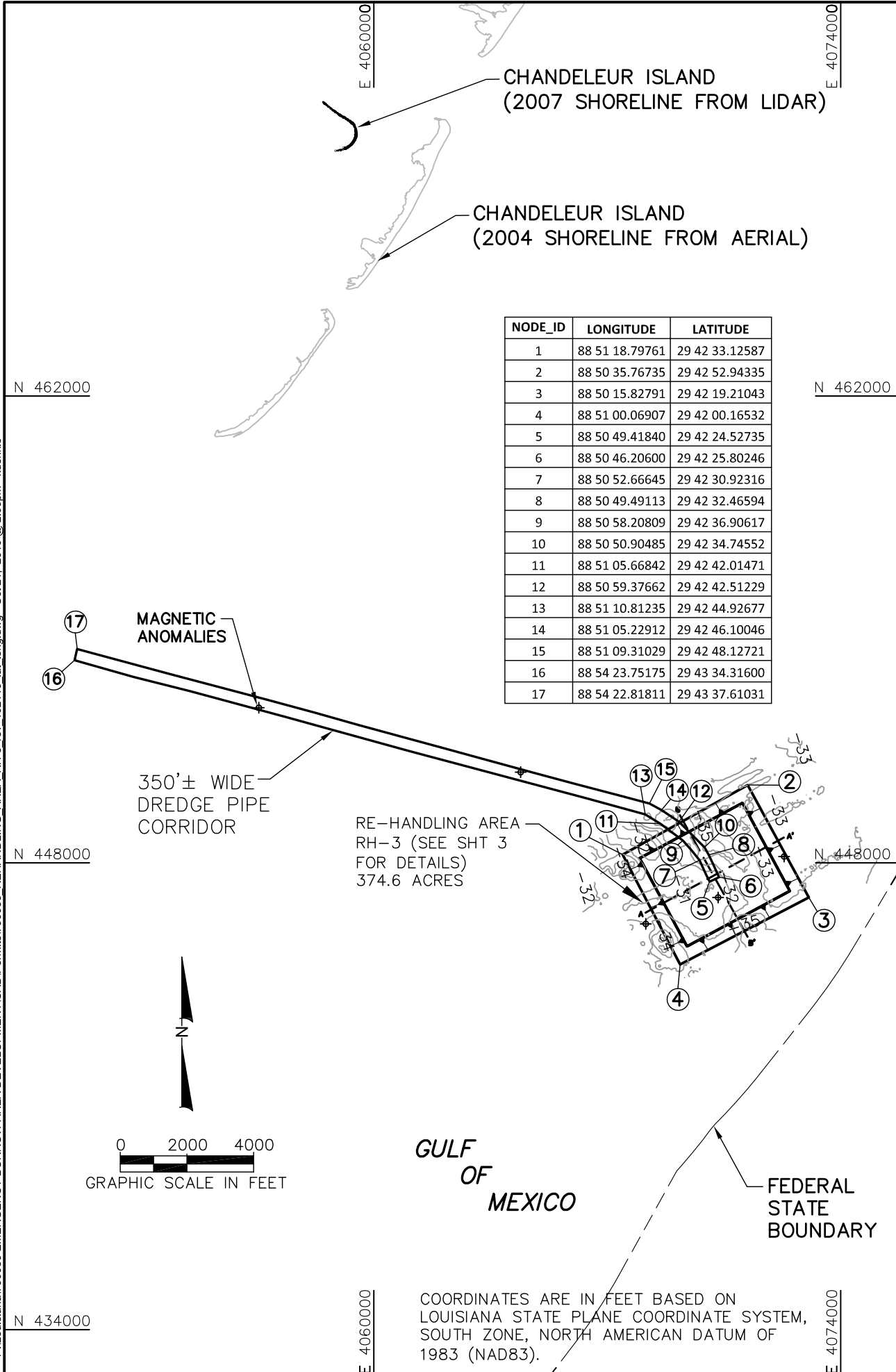
DESIGNED BY:

DRAWN BY:

## SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PROJECT PLAN VIEW
3	PROJECT CROSS SECTIONS

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 REHANDLING AREA RH-3 rev-102110 lat\_long.dwg - Oct.21, 2010 @ 2:06pm - kdennis



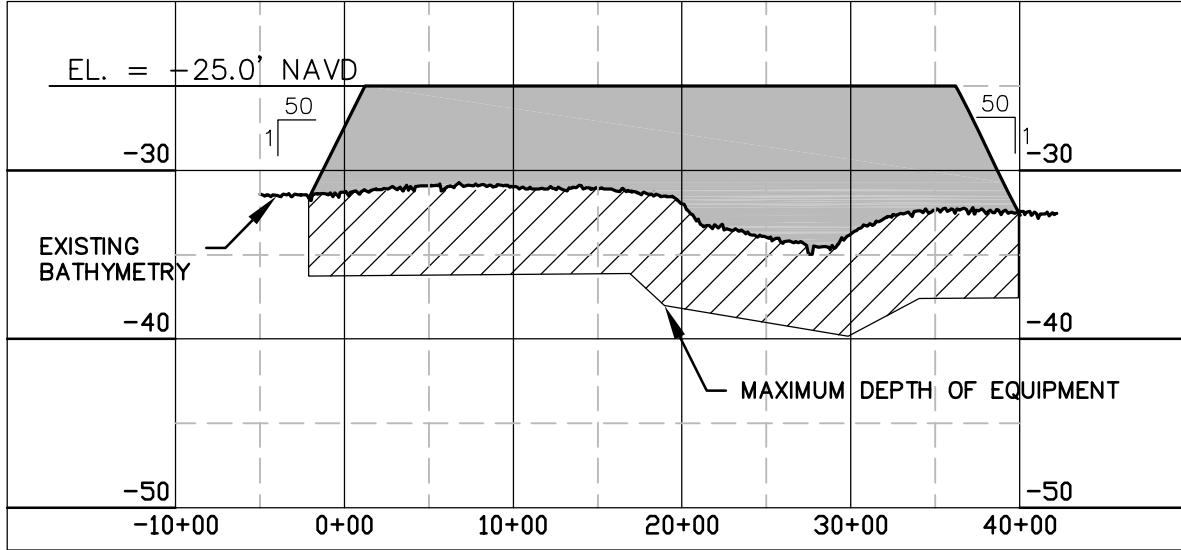
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2	88 50 35.76735	29 42 52.94335
3	88 50 15.82791	29 42 19.21043
4	88 51 00.06907	29 42 00.16532
5	88 50 49.41840	29 42 24.52735
6	88 50 46.20600	29 42 25.80246
7	88 50 52.66645	29 42 30.92316
8	88 50 49.49113	29 42 32.46594
9	88 50 58.20809	29 42 36.90617
10	88 50 50.90485	29 42 34.74552
11	88 51 05.66842	29 42 42.01471
12	88 50 59.37662	29 42 42.51229
13	88 51 10.81235	29 42 44.92677
14	88 51 05.22912	29 42 46.10046
15	88 51 09.31029	29 42 48.12721
16	88 54 23.75175	29 43 34.31600
17	88 54 22.81811	29 43 37.61031

<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>RE-HANDLING AREA RH-3</b> <b>(CHANDELEUR ISLAND)</b> <b>EMERGENCY PERMIT</b>	<b>PLAN VIEW MAP</b> <b>BATHYMETRY IN FT., NAVD88</b>
DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 7/12/10
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:	SHEET 2 OF 3
DRAWN BY:	FEDERAL PROJECT NUMBER:	

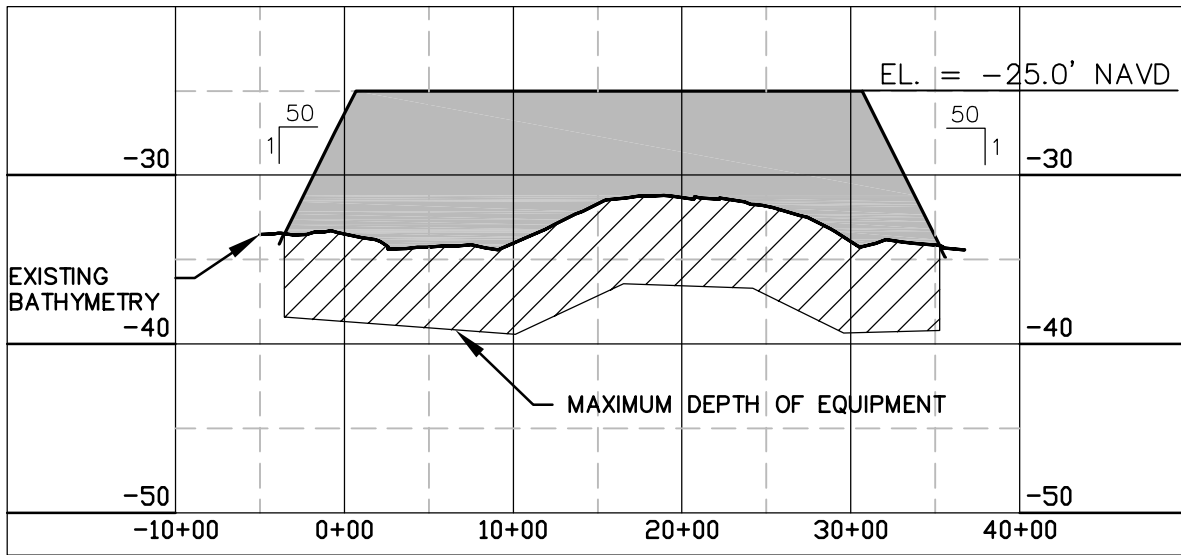
COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

P:\Louisiana\790038 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790038 REHANDLING AREA RH-3 rev\_070610.dwg - Jul 13, 2010 @ 4:49pm - kdemris

A-A'



B-B'



 MAXIMUM DEPTH OF EQUIPMENT (MDE)

ELEVATIONS REFERENCED TO FT, NAVD88

PROJECT CROSS SECTIONS

RE-HANDLING AREA RH-3  
(CHANDELEUR ISLAND)  
EMERGENCY PERMIT

DATE: 7/12/10

SHEET 3 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:

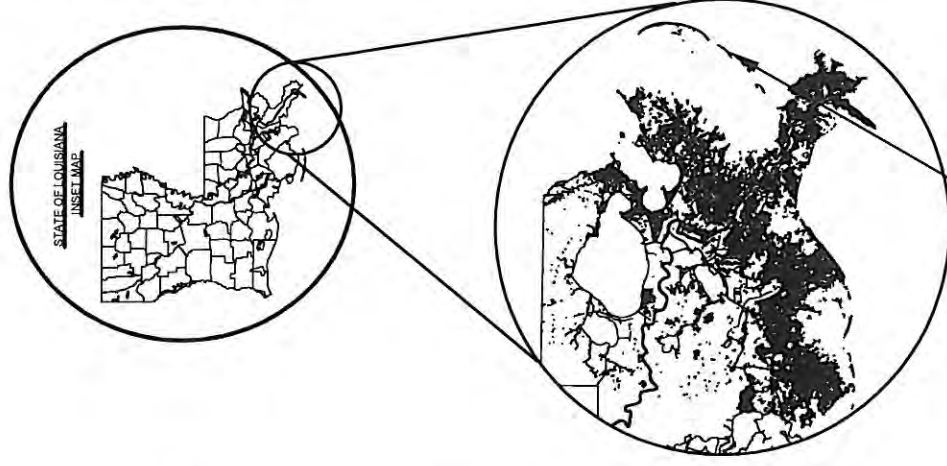
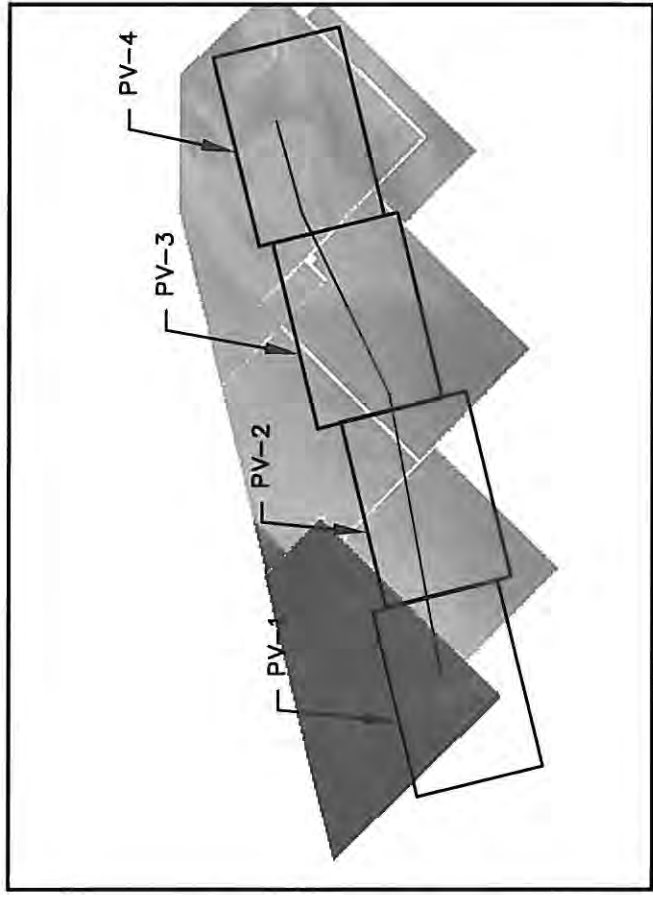


STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT E3  
 CURLEW ISLAND

INDEX TO SHEETS

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6-9	PROFILES



PROJECT LOCATION

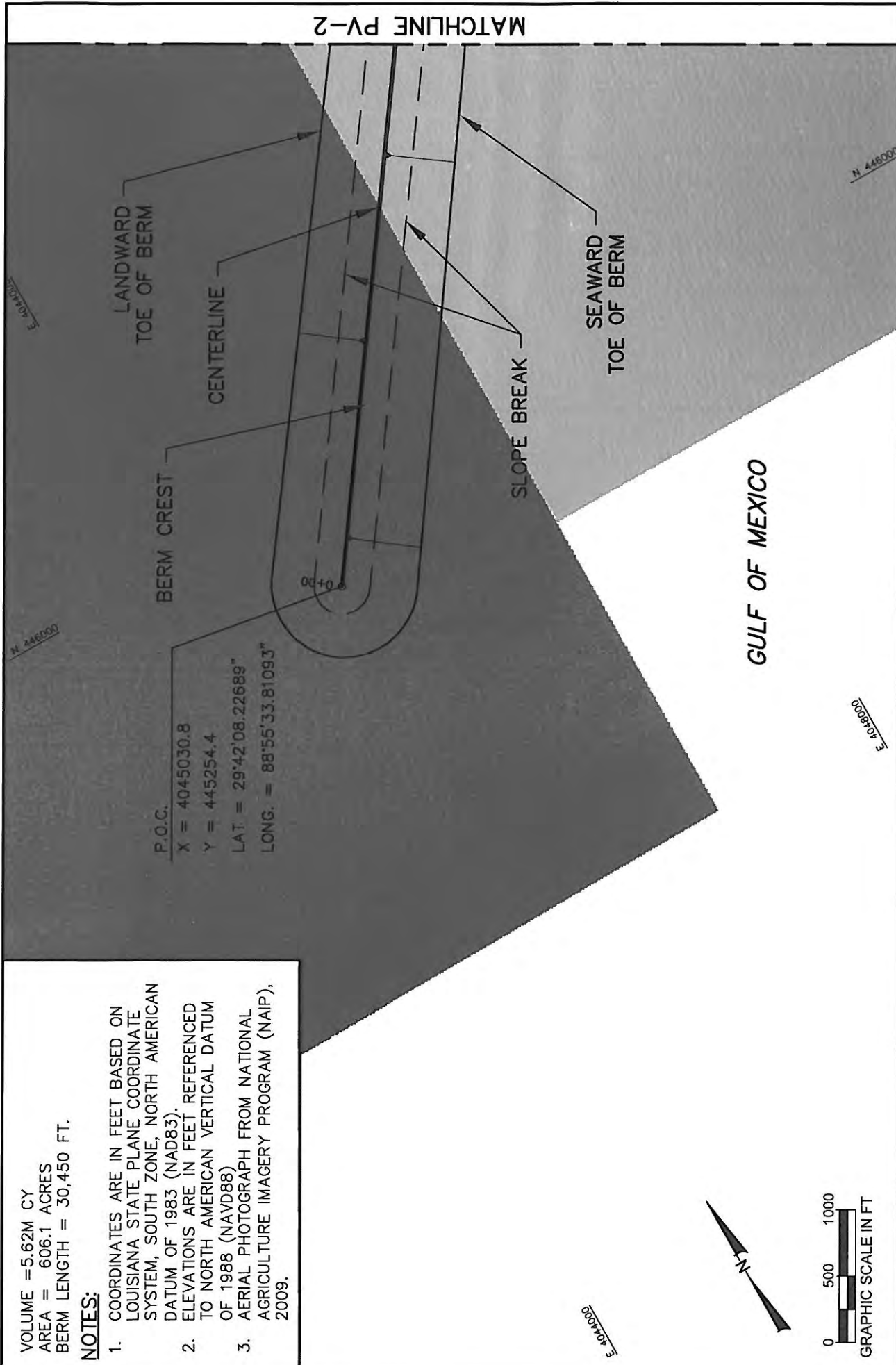
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 TITLE SHEET
DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 7/22/10
APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 1 OF 9

VOLUME = 5.62M CY  
 AREA = 606.1 ACRES  
 BERM LENGTH = 30,450 FT.

**NOTES:**

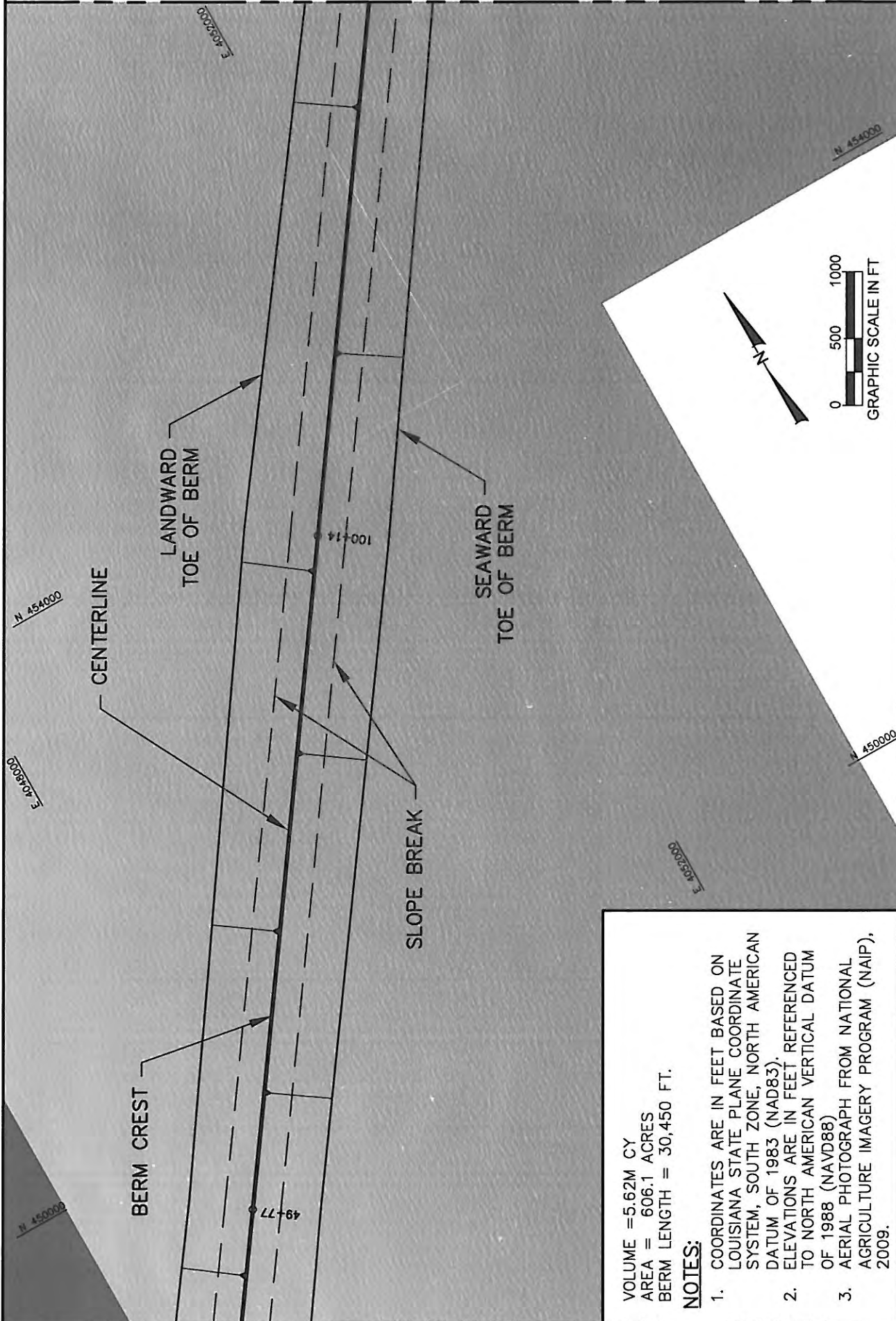
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

P.O.C.  
 X = 4045030.8  
 Y = 445254.4  
 LAT. = 29°42'08.22689"  
 LONG. = 88°55'33.81093"



OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 PLAN VIEW
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 7/22/10 SHEET 2 OF 9
DESIGNED BY:	APPROVED BY:	DRAWN BY:

MATCHLINE PV-3



MATCHLINE PV-1

VOLUME = 5.62M CY  
 AREA = 606.1 ACRES  
 BERM LENGTH = 30,450 FT.

**NOTES:**

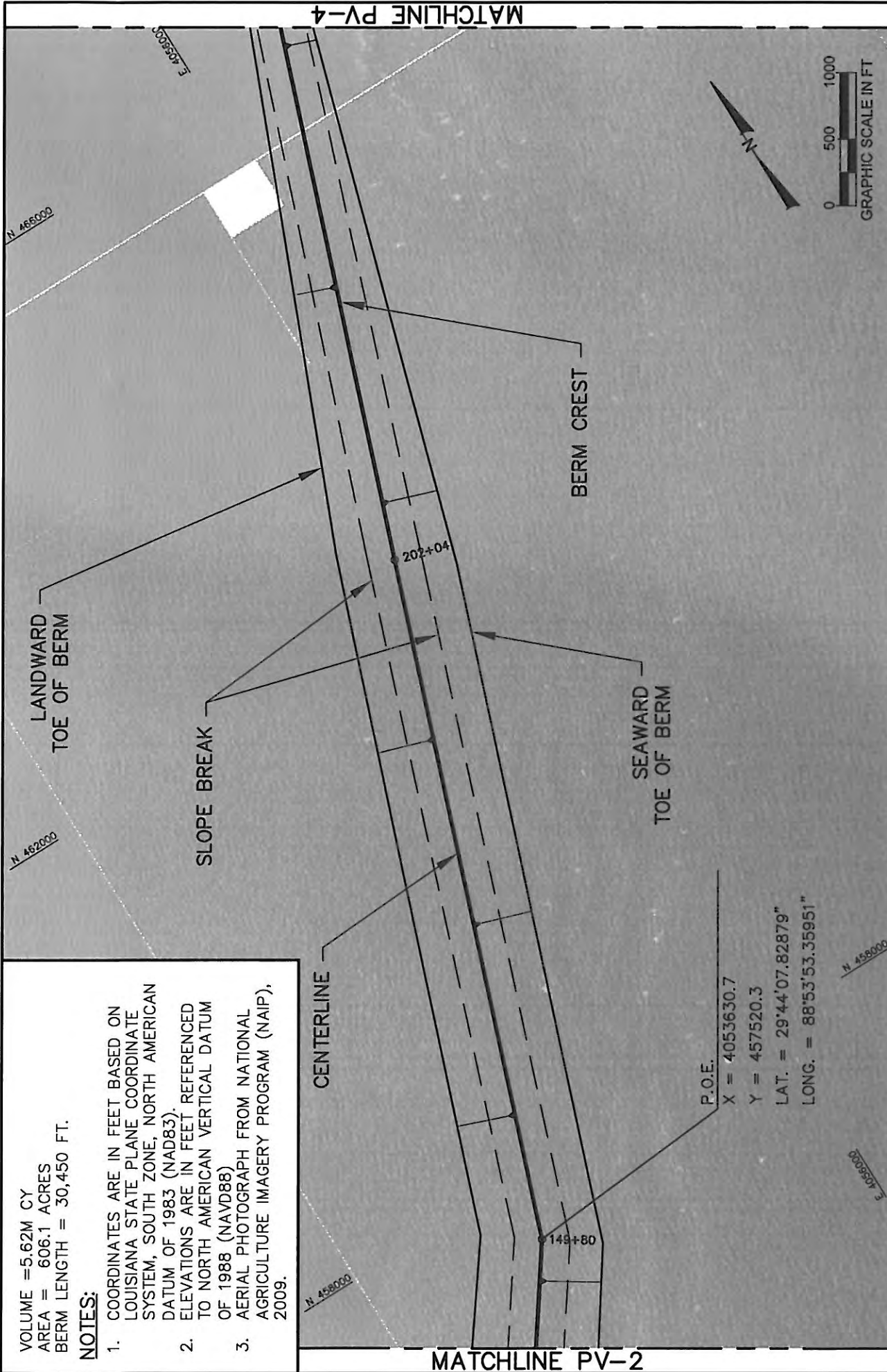
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 7/22/10 SHEET 3 OF 9
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	

VOLUME = 5.62M CY  
 AREA = 606.1 ACRES  
 BERM LENGTH = 30,450 FT.

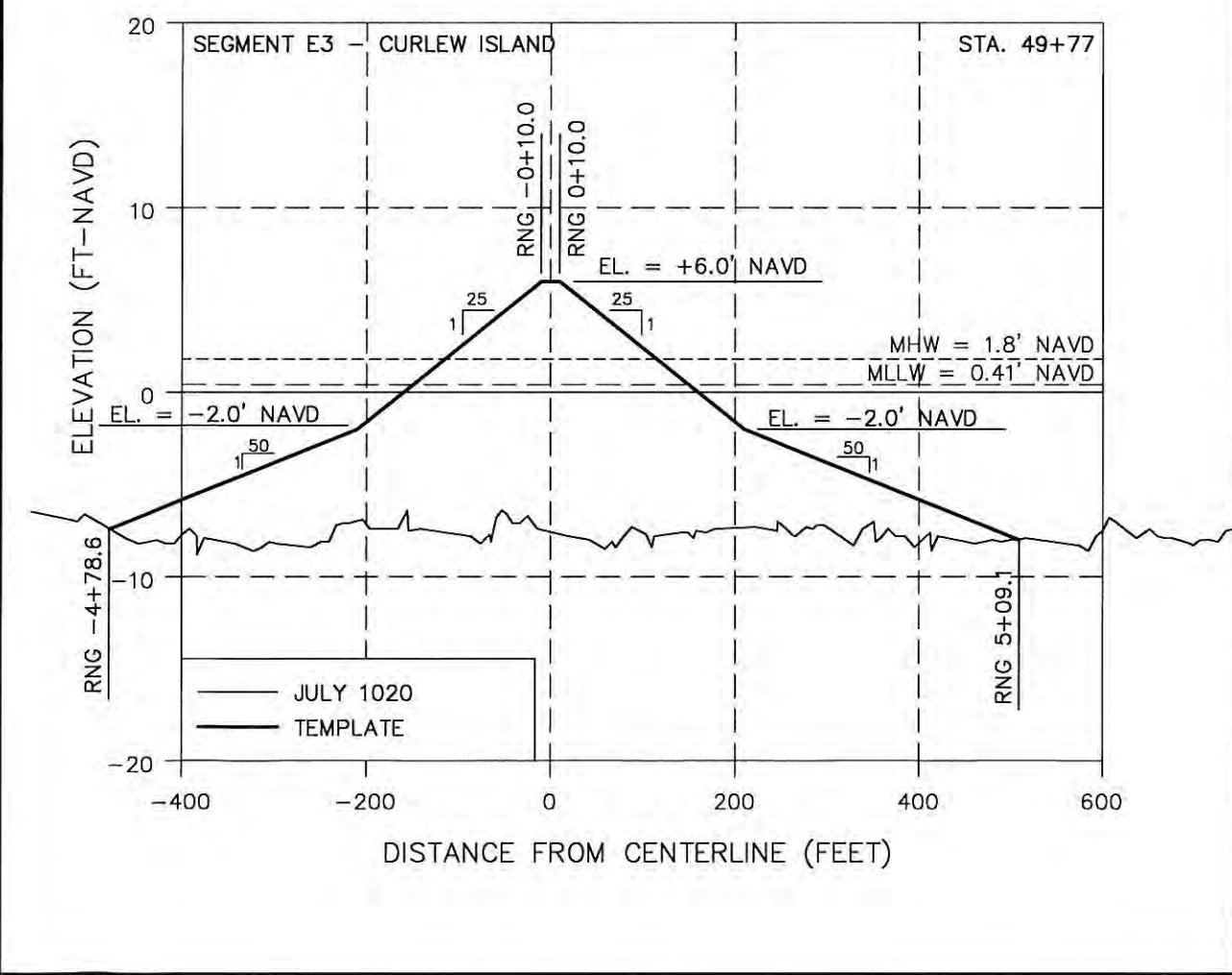
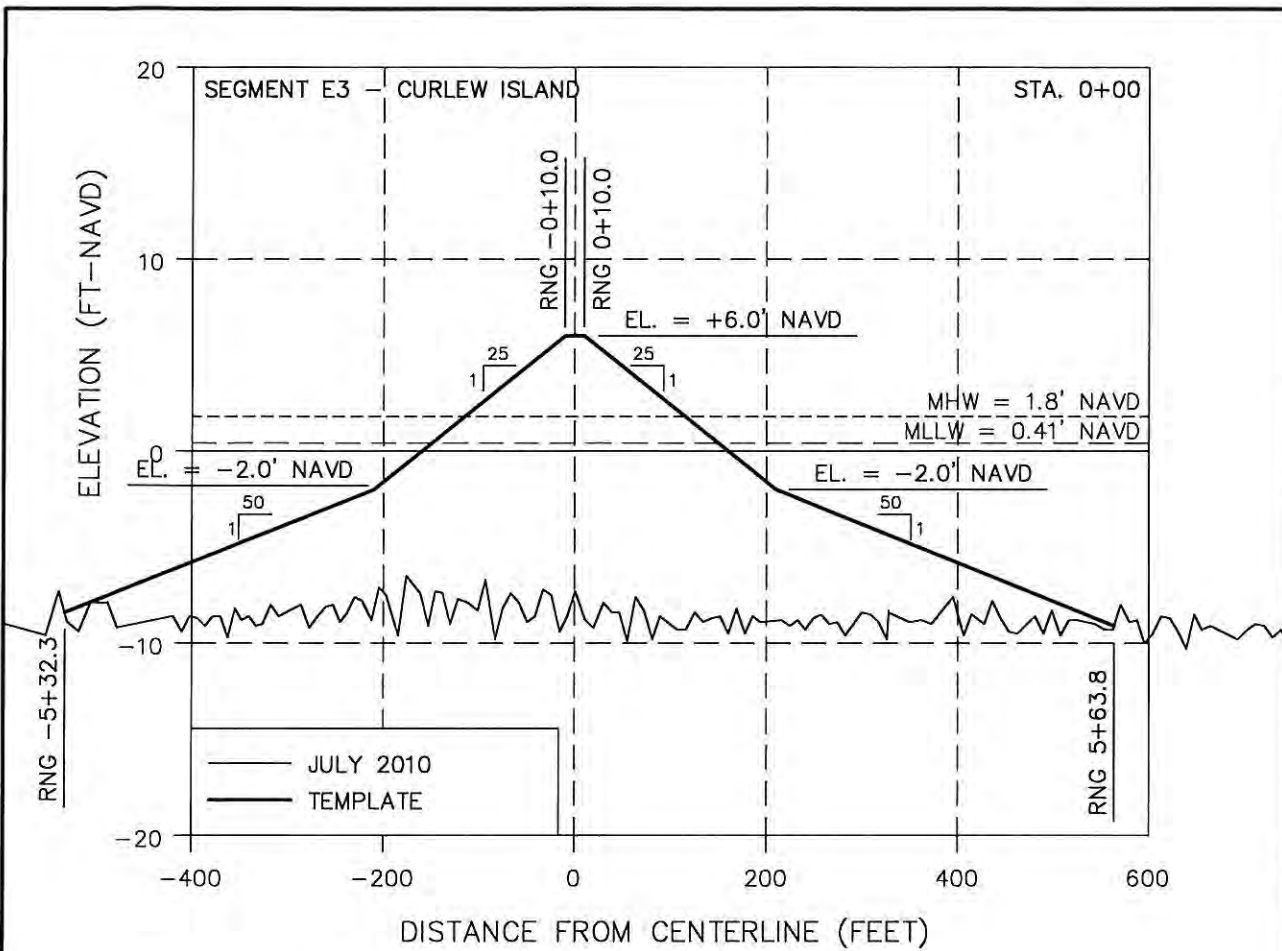
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3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

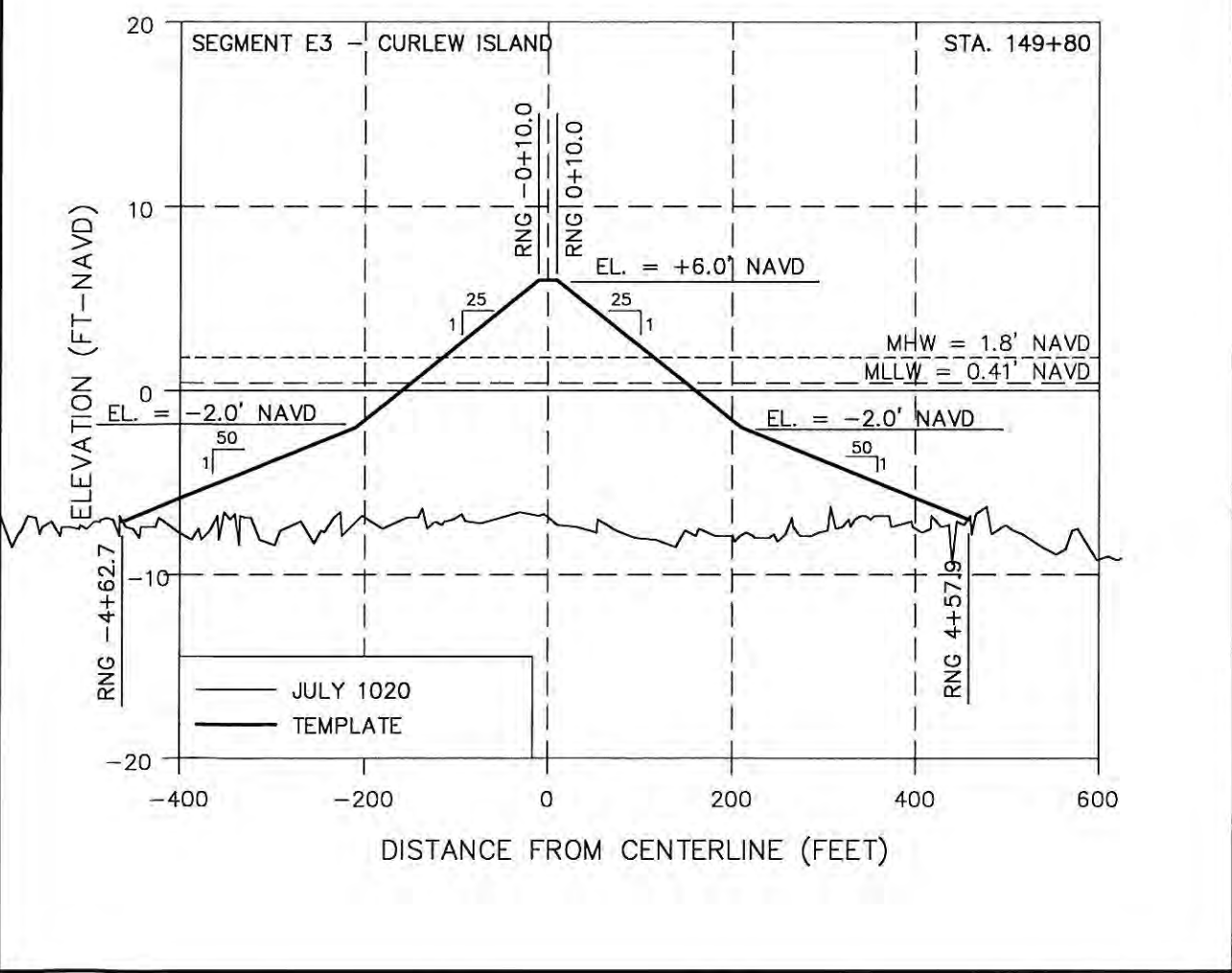
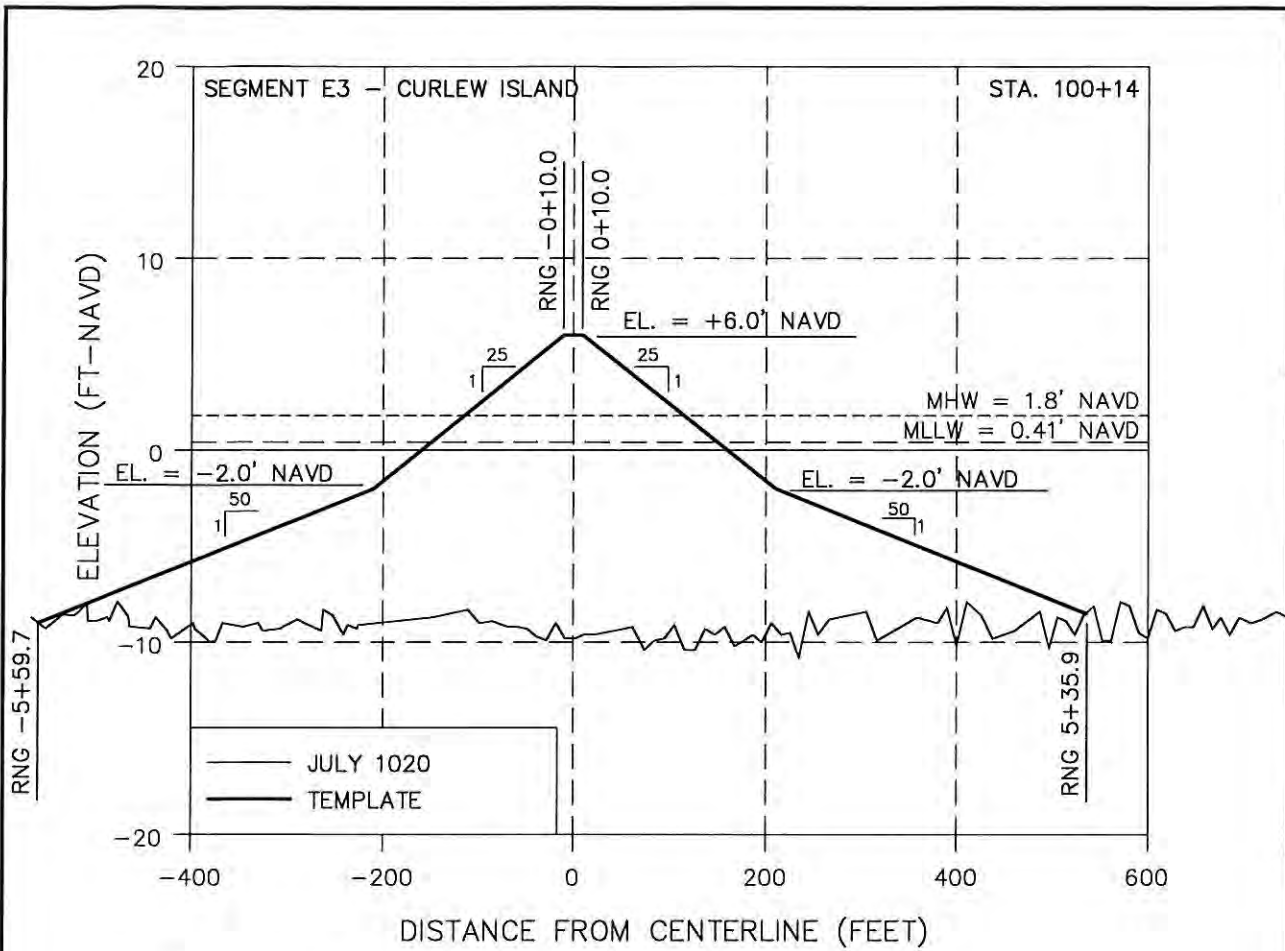


APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE SEGMENT E3 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
DATE: 7/22/10	APPROVED BY:	DATE: 7/22/10 SHEET 4 OF 9

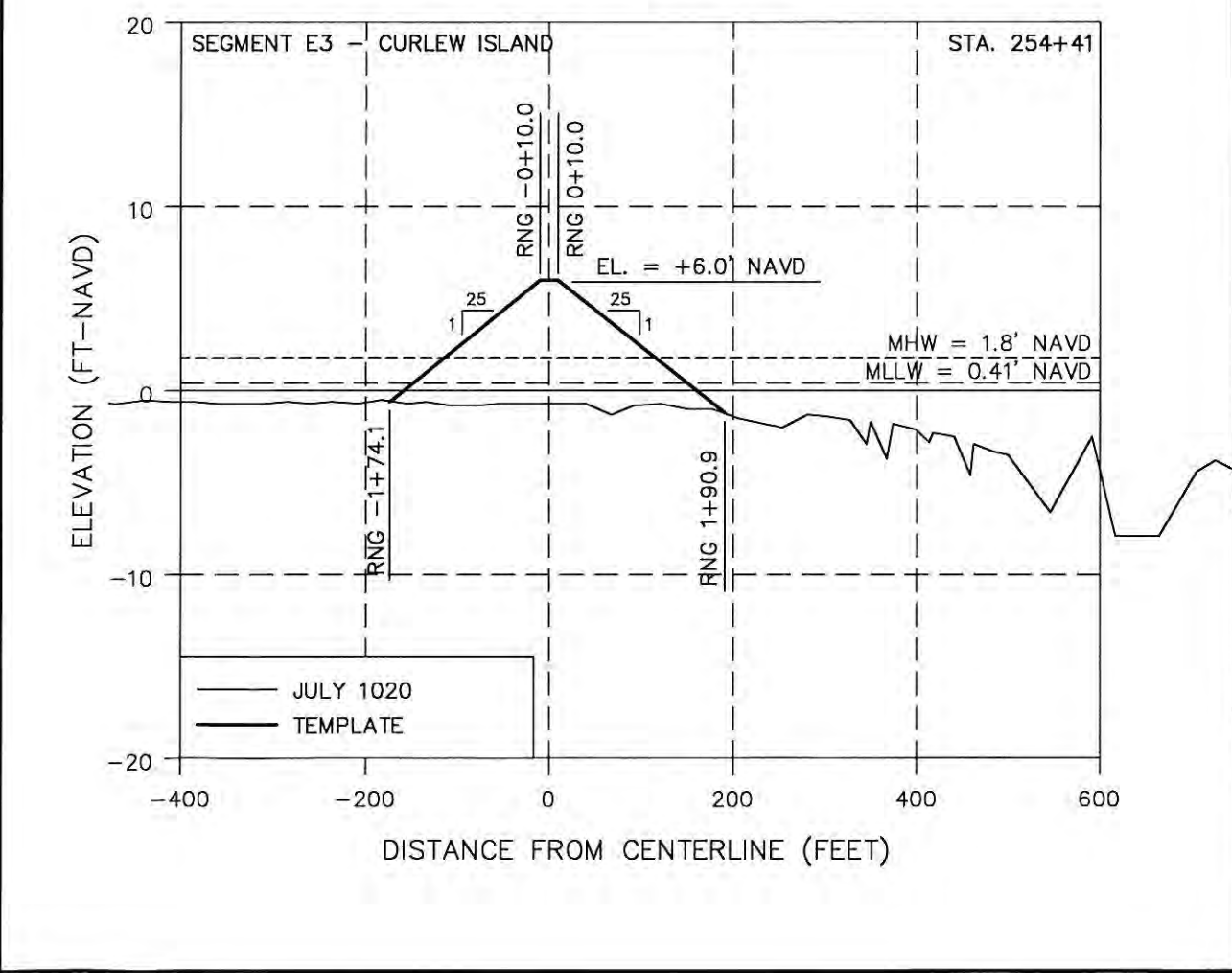
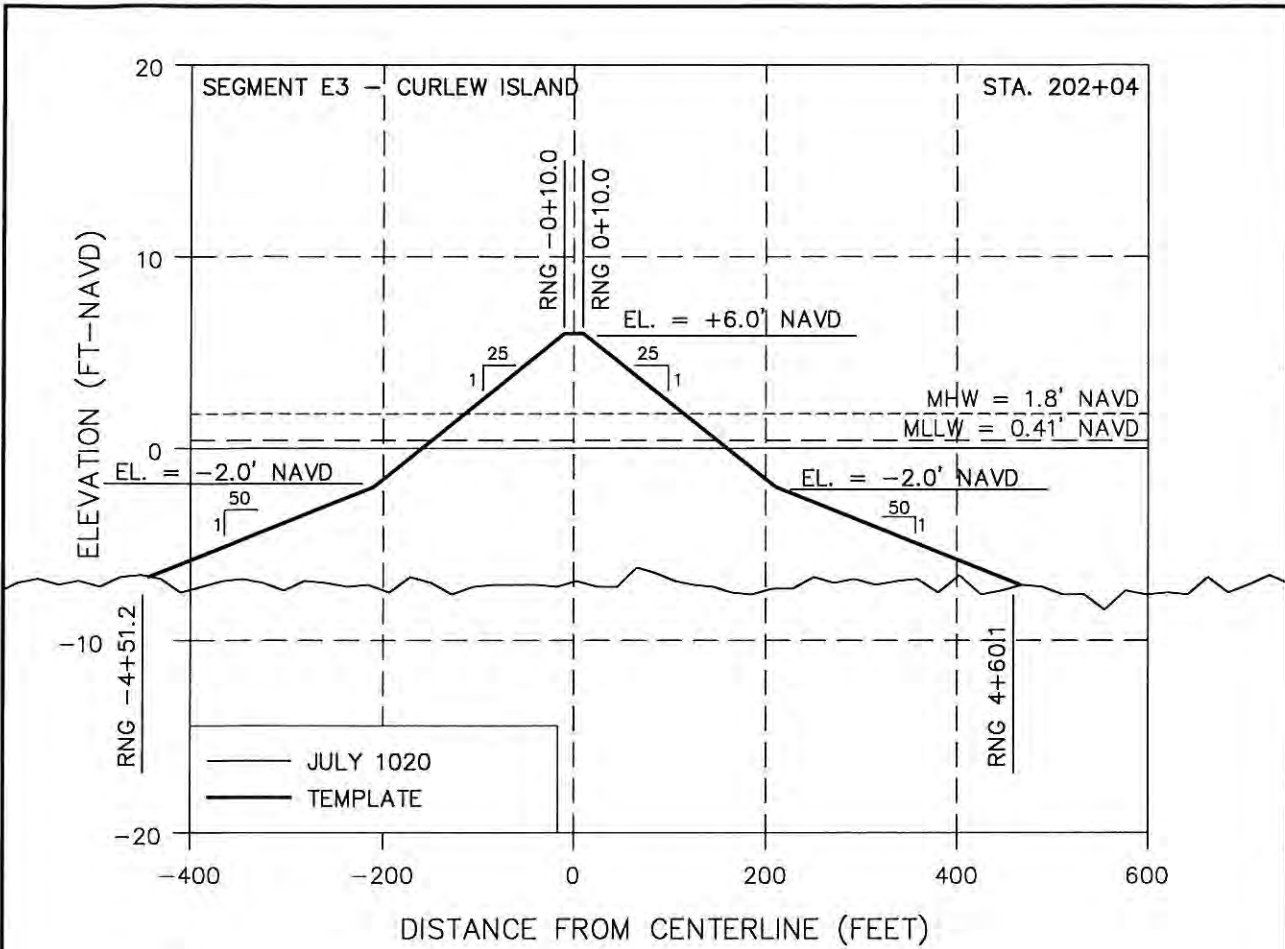




SEGMENT E3 PROFILES		DATE: 7/22/10	SHEET 6 OF 9
BARRIER ISLAND DEFENSE		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		DESIGNED BY:	APPROVED BY:
		APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DRAWN BY:

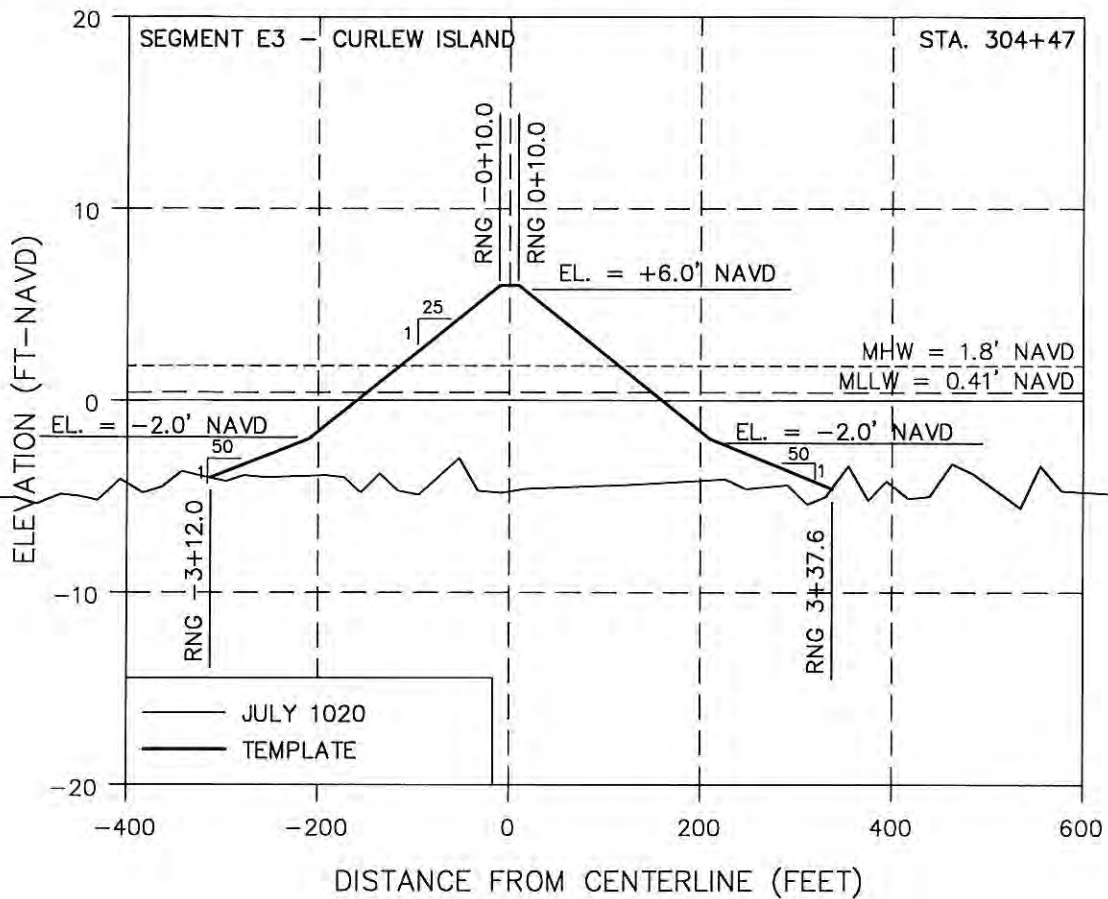


SEGMENT E3 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 7/22/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:	DRAWN BY:
SHEET 7 OF 9			



<p>SEGMENT E3 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 7/22/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 8 OF 9</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>





SEGMENT E3  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 7/22/10

STATE PROJECT NUMBER:

APPROVED BY:

SHEET 9 OF 9

FEDERAL PROJECT NUMBER:

DESIGNED BY:

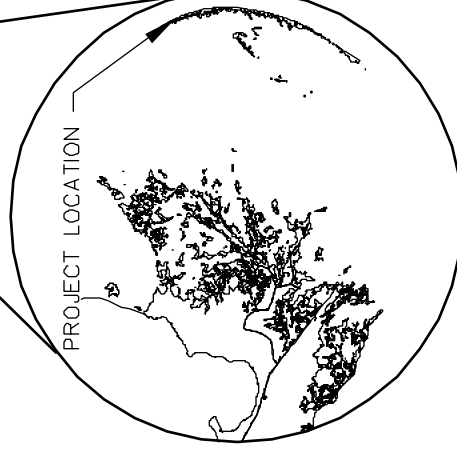
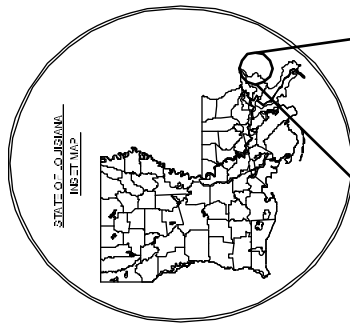
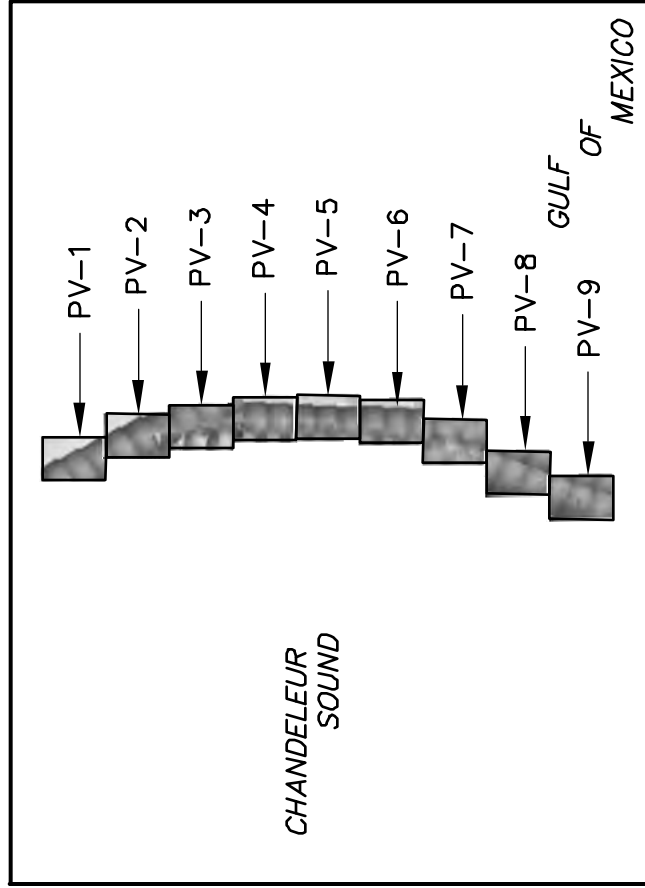
DRAWN BY:

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
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11-22	PROFILES

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

**SEGMENT E4**  
**NORTHERN CHANDELEUR ISLANDS**



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT E4  
 TITLE SHEET

DRAWN BY:

DESIGNED BY:

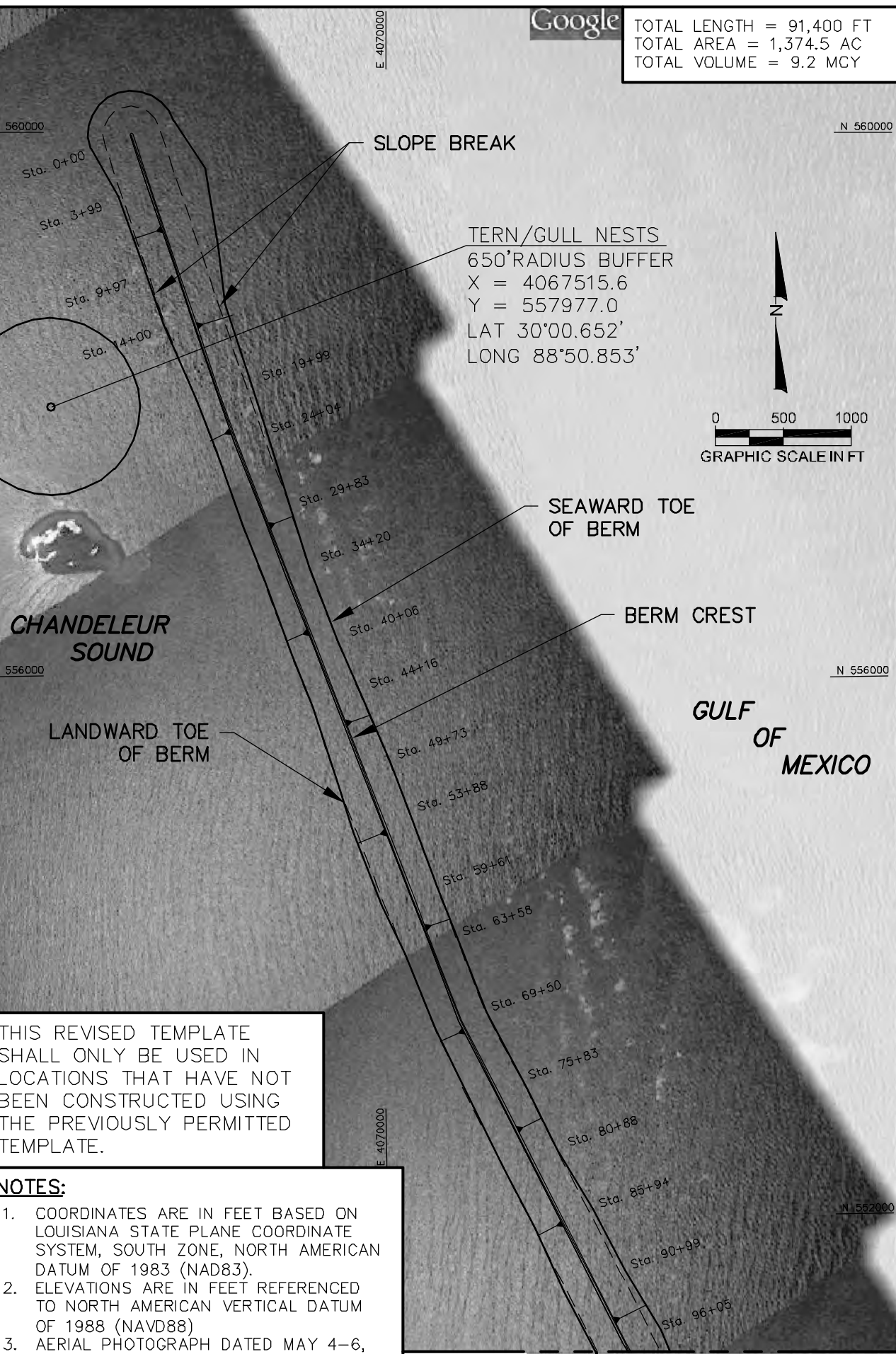
APPROVED BY:

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

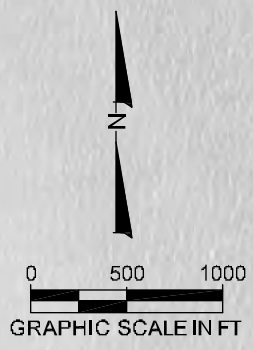
DATE: 10/15/10

SHEET 1 OF 22



Google  
 TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

TERN/GULL NESTS  
 650' RADIUS BUFFER  
 X = 4067515.6  
 Y = 557977.0  
 LAT 30°00.652'  
 LONG 88°50.853'



THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.

- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

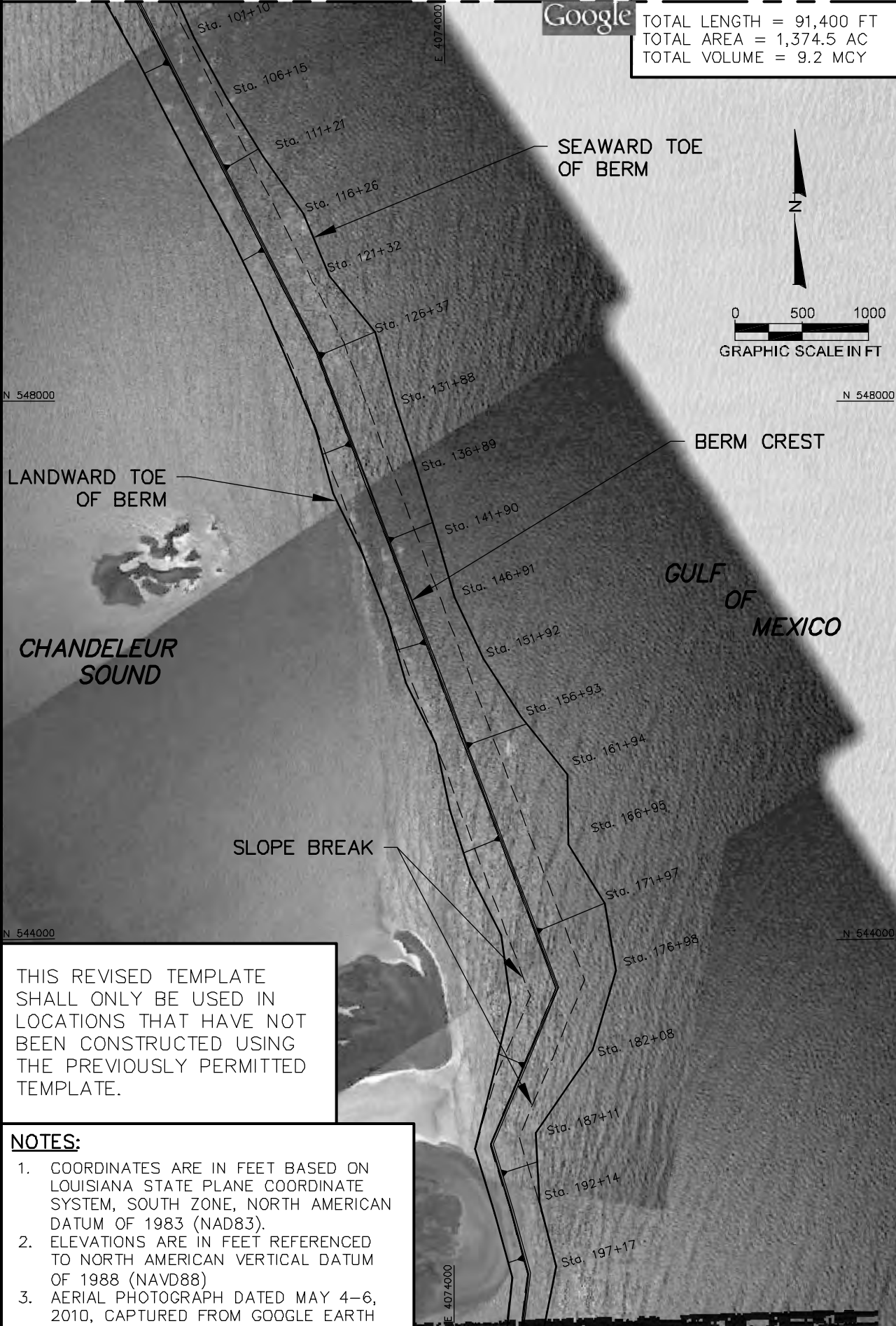
**MATCHLINE PV-2**

<p>SEGMENT E4          PLAN VIEW</p>	<p>BARRIER ISLAND          DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION  <b>ENGINEERING BRANCH</b>          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY:          OFFICE OF COASTAL PROTECTION &amp; RESTORATION          450 LAUREL STREET          BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/15/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 2 OF 22</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DESIGNED BY:</p>

**MATCHLINE PV-1**

Google

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY



SEGMENT E4  
 PLAN VIEW

DATE: 10/15/10

SHEET 3 OF 22

BARRIER ISLAND  
 DEFENSE

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY:

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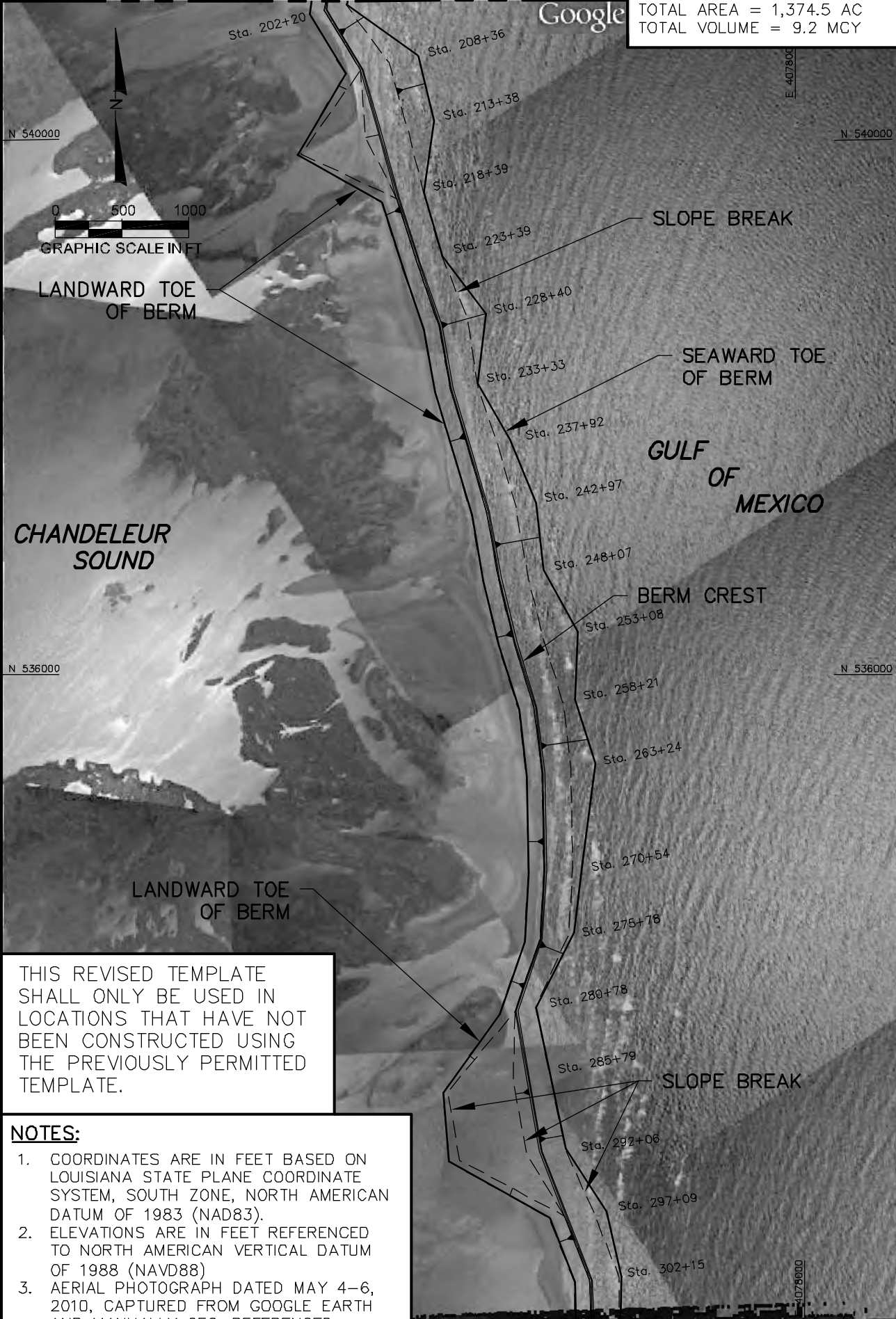
- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

**MATCHLINE PV-3**

**MATCHLINE PV-2**

Google

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY



SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

SHEET 4 OF 22

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.

**NOTES:**

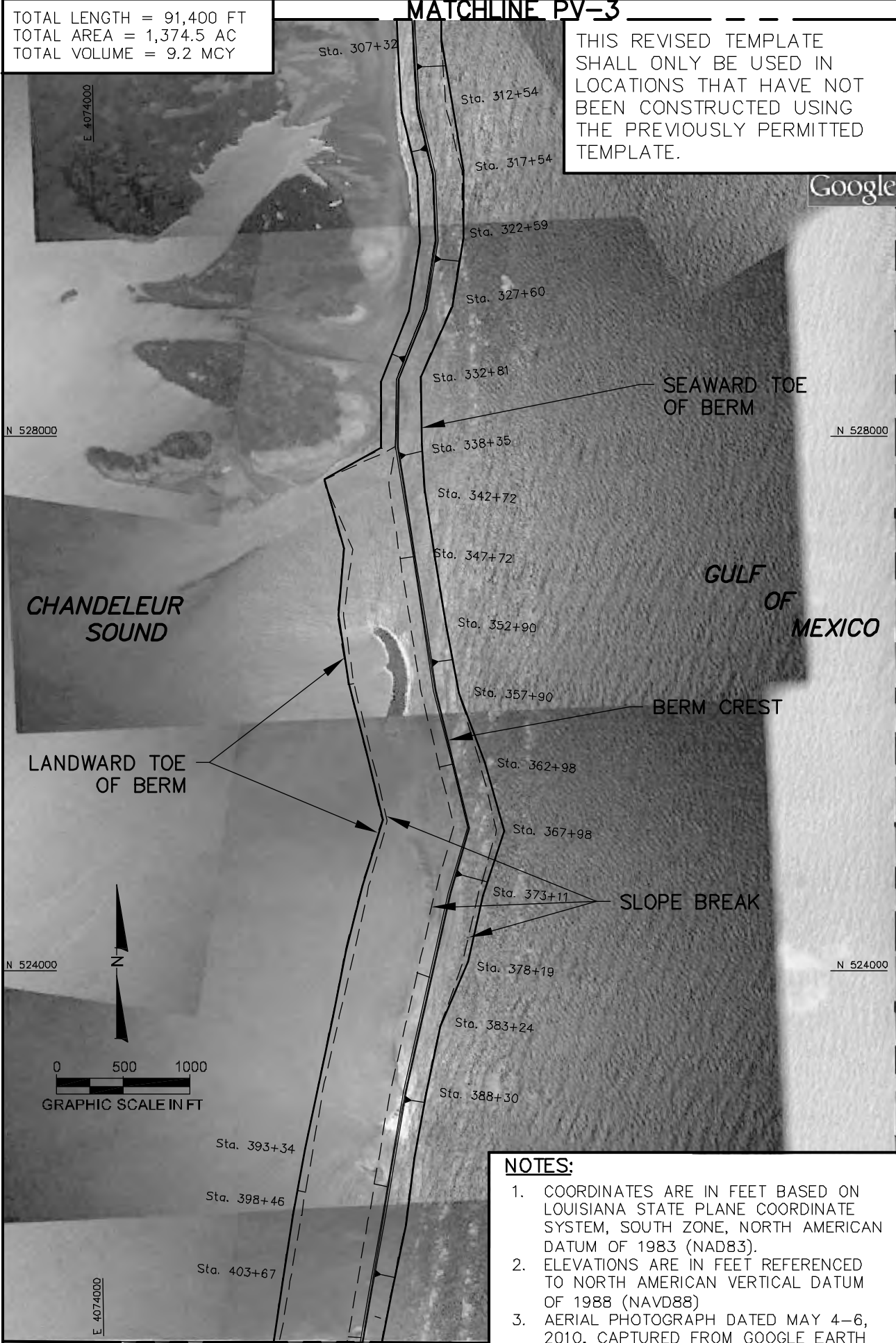
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2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

**MATCHLINE PV-4**

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

MATCHLINE PV-3

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.



SEGMENT E4  
 PLAN VIEW

DATE: 10/15/10  
 SHEET 5 OF 22

BARRIER ISLAND  
 DEFENSE

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY:

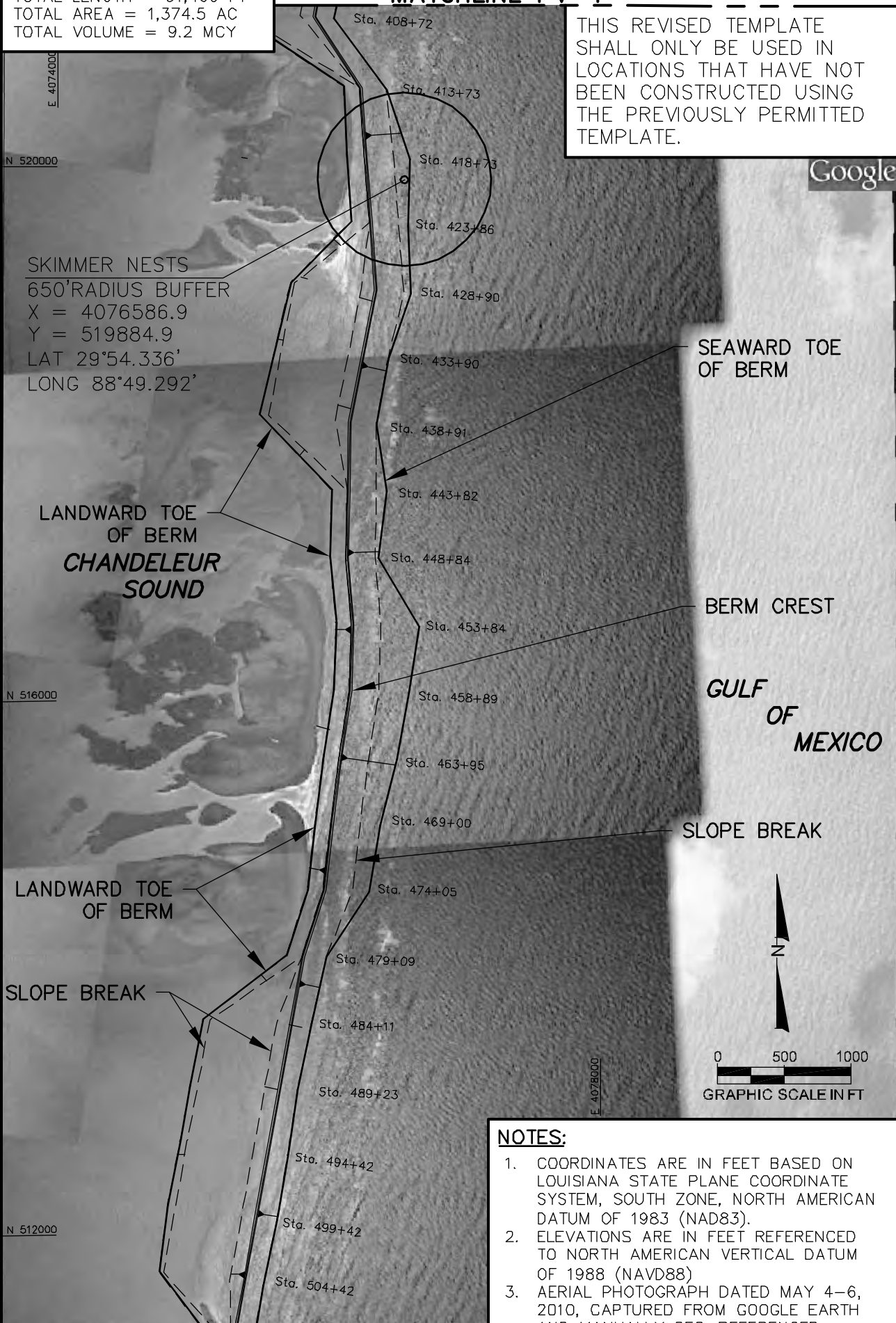
- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

MATCHLINE PV-5

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

### MATCHLINE PV-4

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.



SEGMENT E4  
 PLAN VIEW

DATE: 10/15/10

SHEET 6 OF 22

BARRIER ISLAND  
 DEFENSE

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPROVED BY:

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DESIGNED BY:

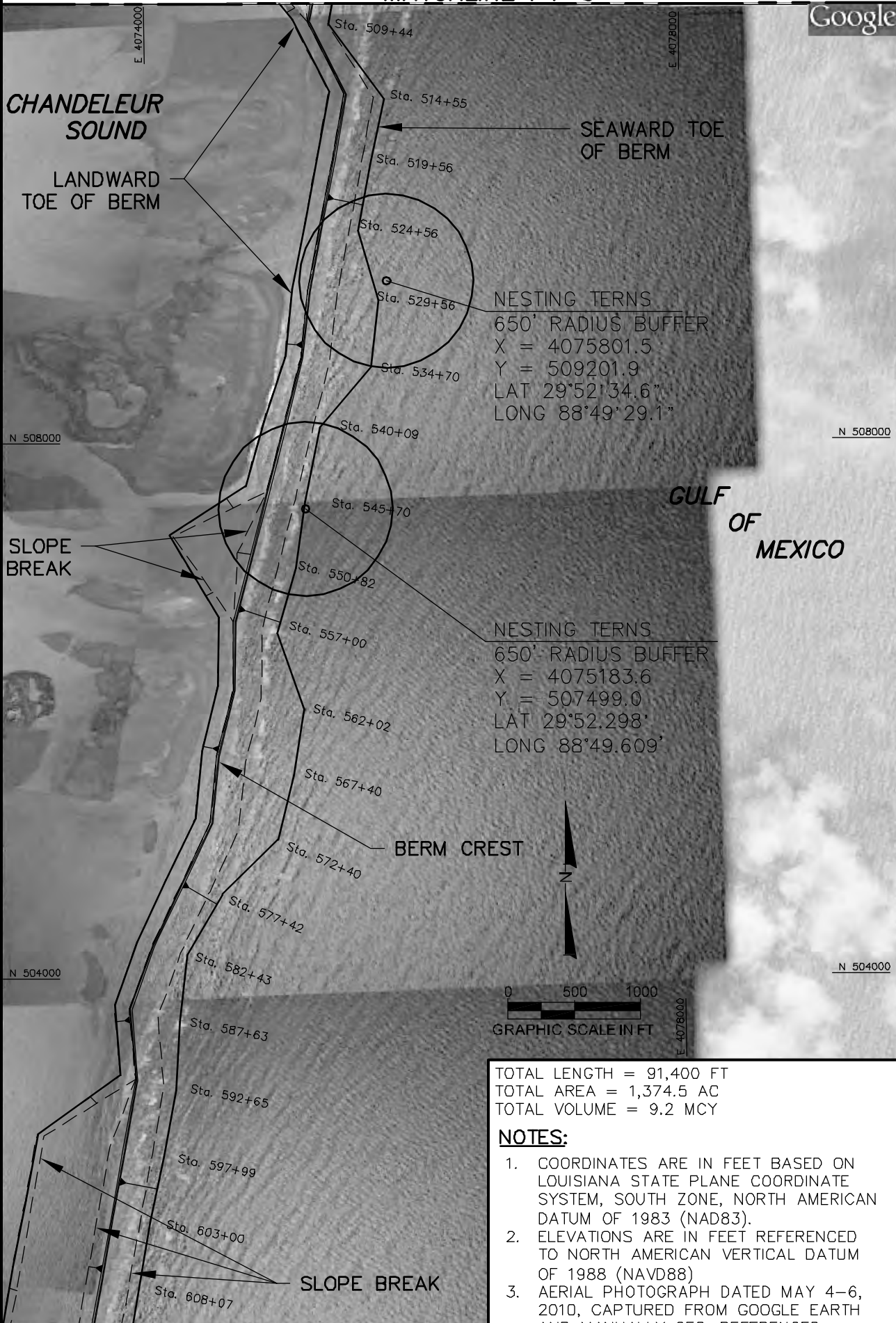
DRAWN BY:

#### NOTES:

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

### MATCHLINE PV-6

**MATCHLINE PV-5**



Google

SEGMENT E4  
PLAN VIEW

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/15/12

STATE PROJECT NUMBER:

SHEET 7 OF 22

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

TOTAL LENGTH = 91,400 FT  
TOTAL AREA = 1,374.5 AC  
TOTAL VOLUME = 9.2 MCY

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

**MATCHLINE PV-7**



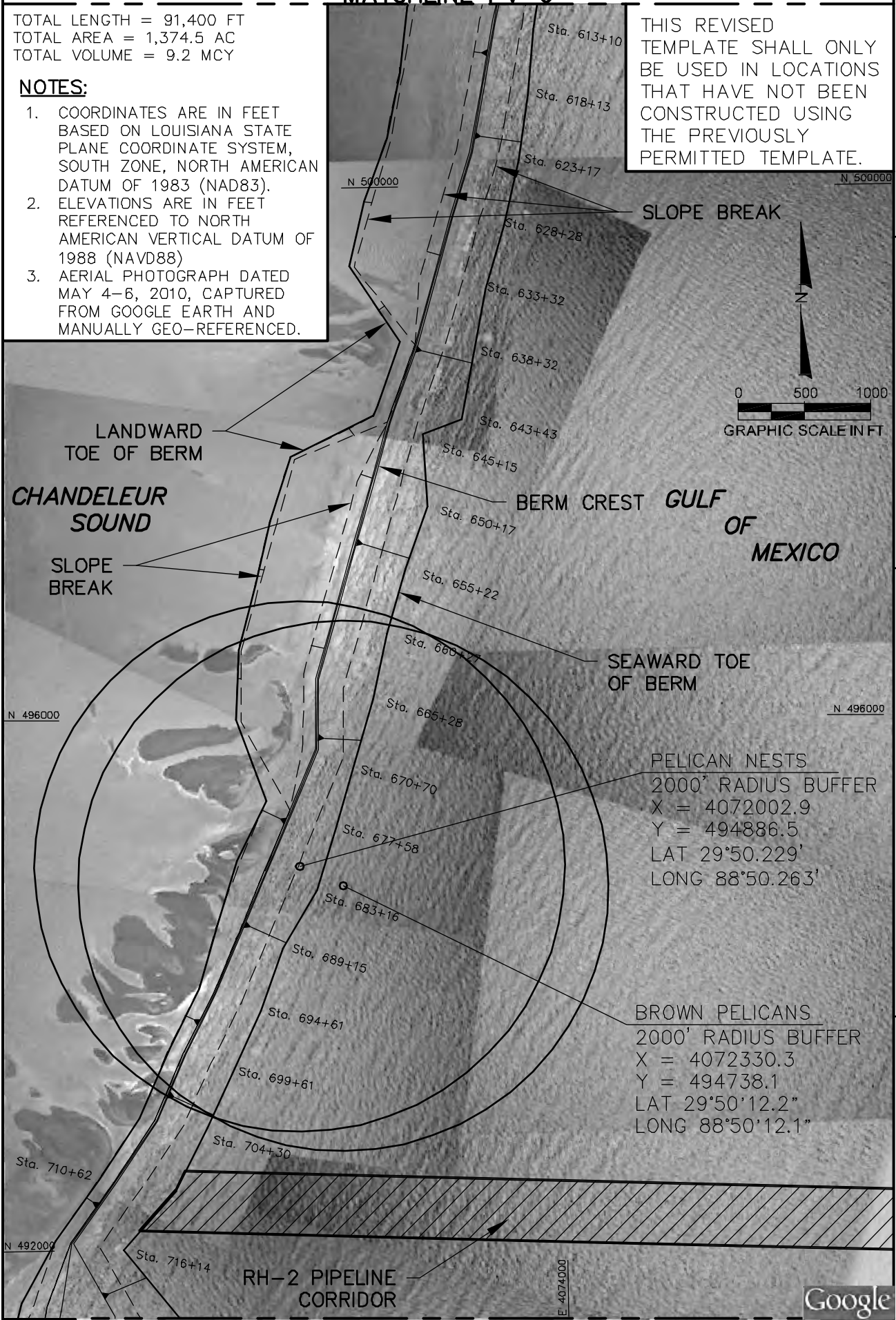
**MATCHLINE PV-6**

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.



**SEGMENT E4  
 PLAN VIEW**

**BARRIER ISLAND  
 DEFENSE**

**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

**APPLICATION BY:**  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10  
 SHEET 8 OF 22

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

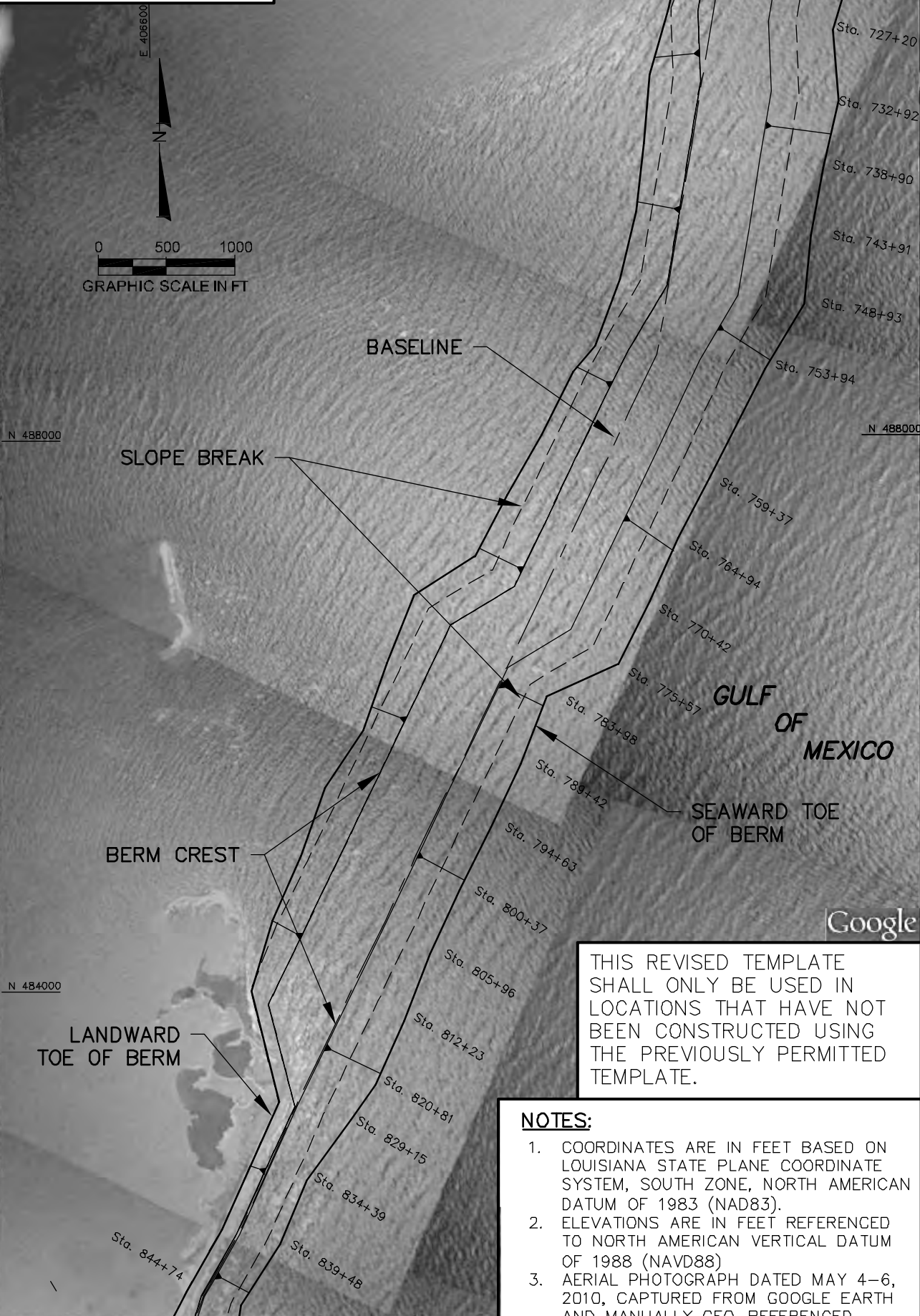
DRAWN BY:

**MATCHLINE PV-8**



TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

**MATCHLINE PV-7**



SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

STATE PROJECT NUMBER:

APPROVED BY:

SHEET 9 OF 22

FEDERAL PROJECT NUMBER:

DESIGNED BY:

DRAWN BY:

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.

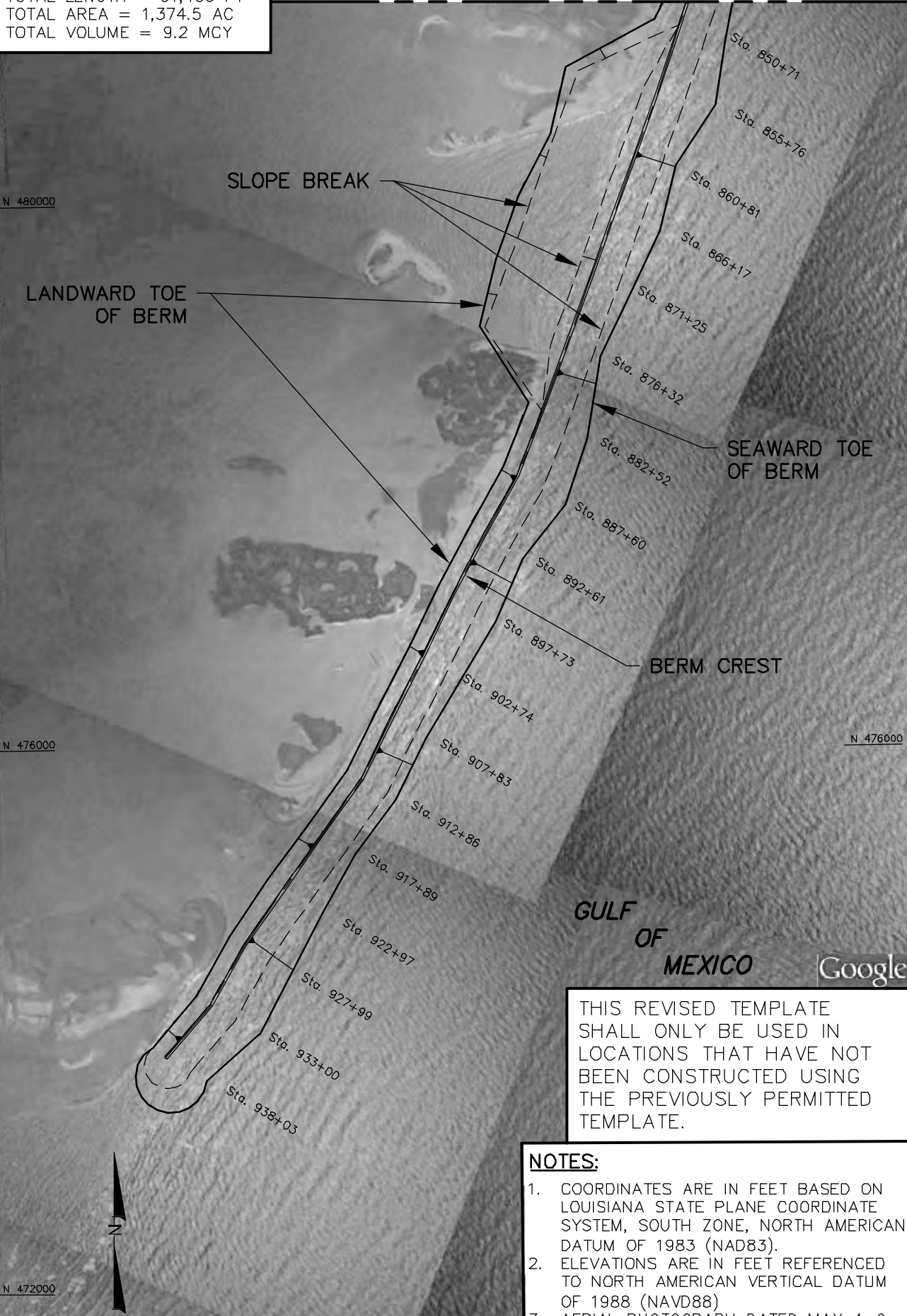
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.

**MATCHLINE PV-9**

TOTAL LENGTH = 91,400 FT  
 TOTAL AREA = 1,374.5 AC  
 TOTAL VOLUME = 9.2 MCY

**MATCHLINE PV-8**



SEGMENT E4  
 PLAN VIEW

BARRIER ISLAND  
 DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

SHEET 10 OF 22

FEDERAL PROJECT NUMBER:

APPROVED BY:

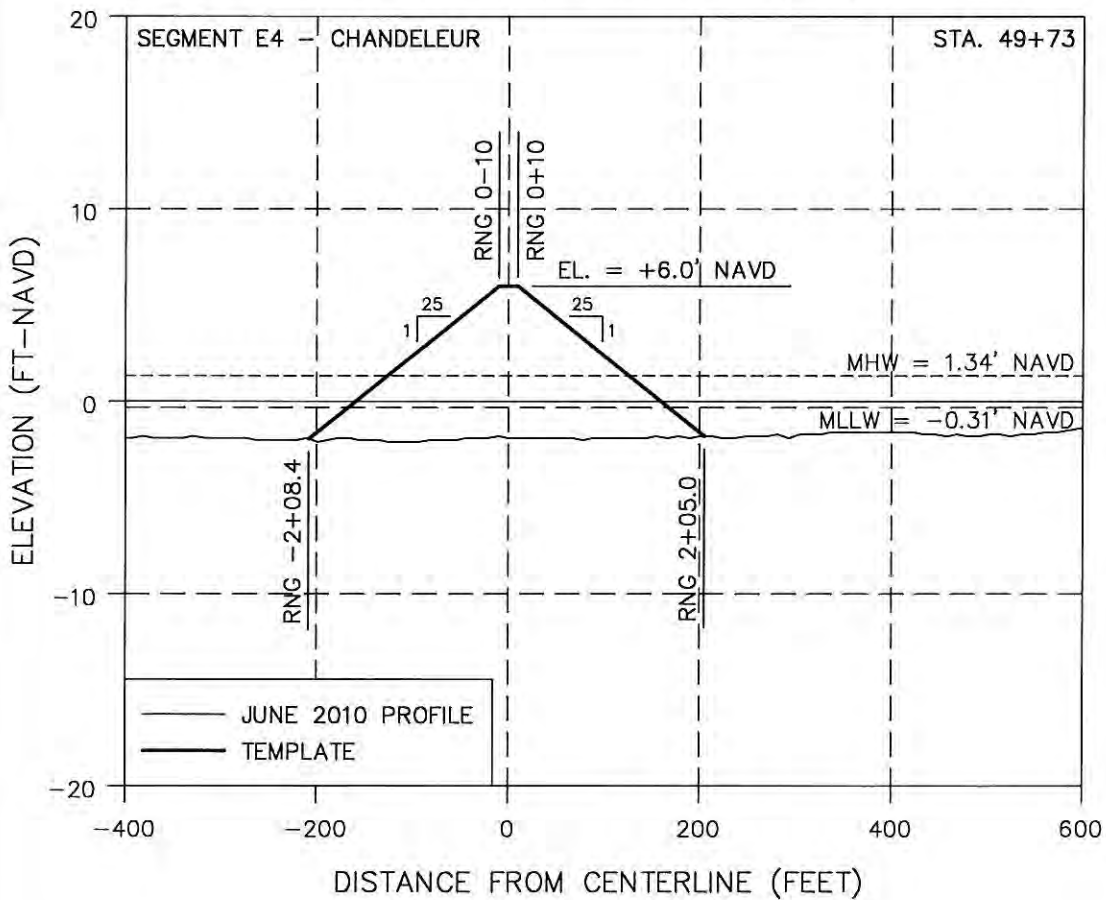
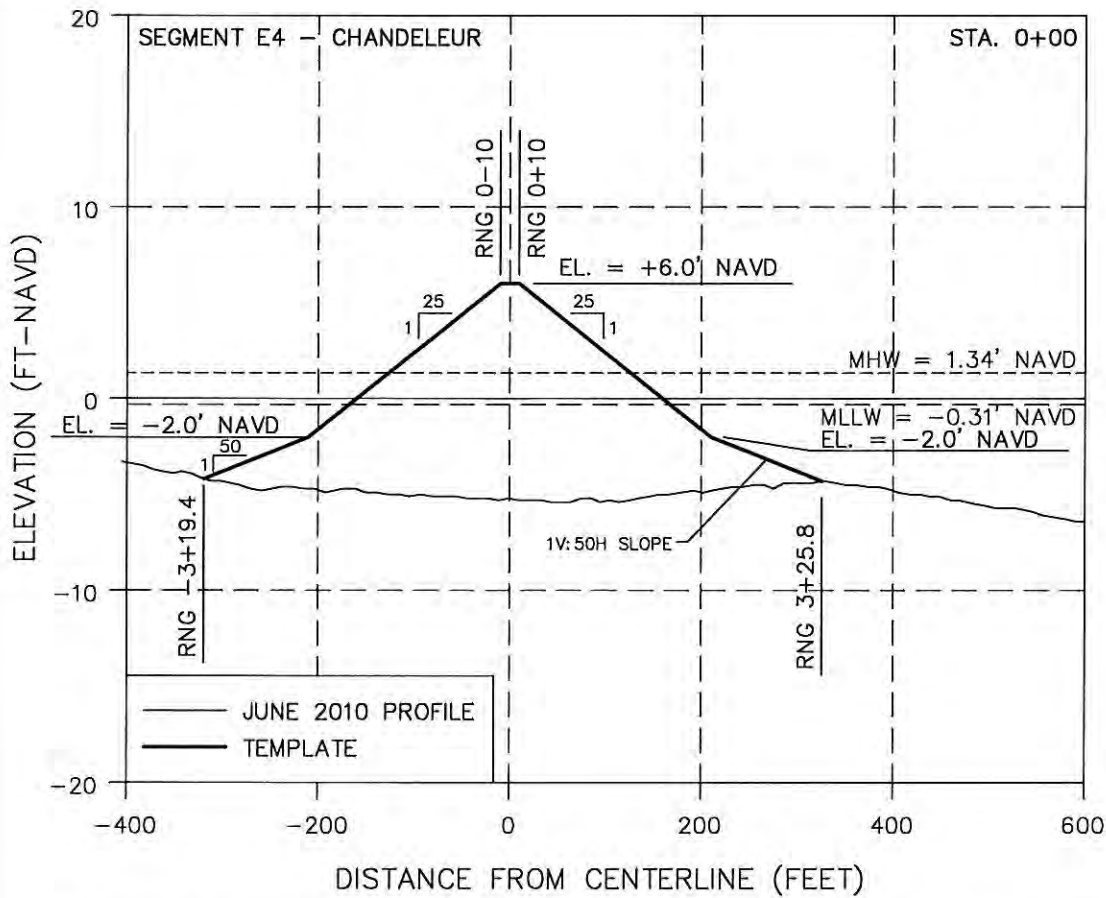
DESIGNED BY:

DRAWN BY:

THIS REVISED TEMPLATE SHALL ONLY BE USED IN LOCATIONS THAT HAVE NOT BEEN CONSTRUCTED USING THE PREVIOUSLY PERMITTED TEMPLATE.

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH DATED MAY 4-6, 2010, CAPTURED FROM GOOGLE EARTH AND MANUALLY GEO-REFERENCED.



SEGMENT E4  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

STATE PROJECT NUMBER:

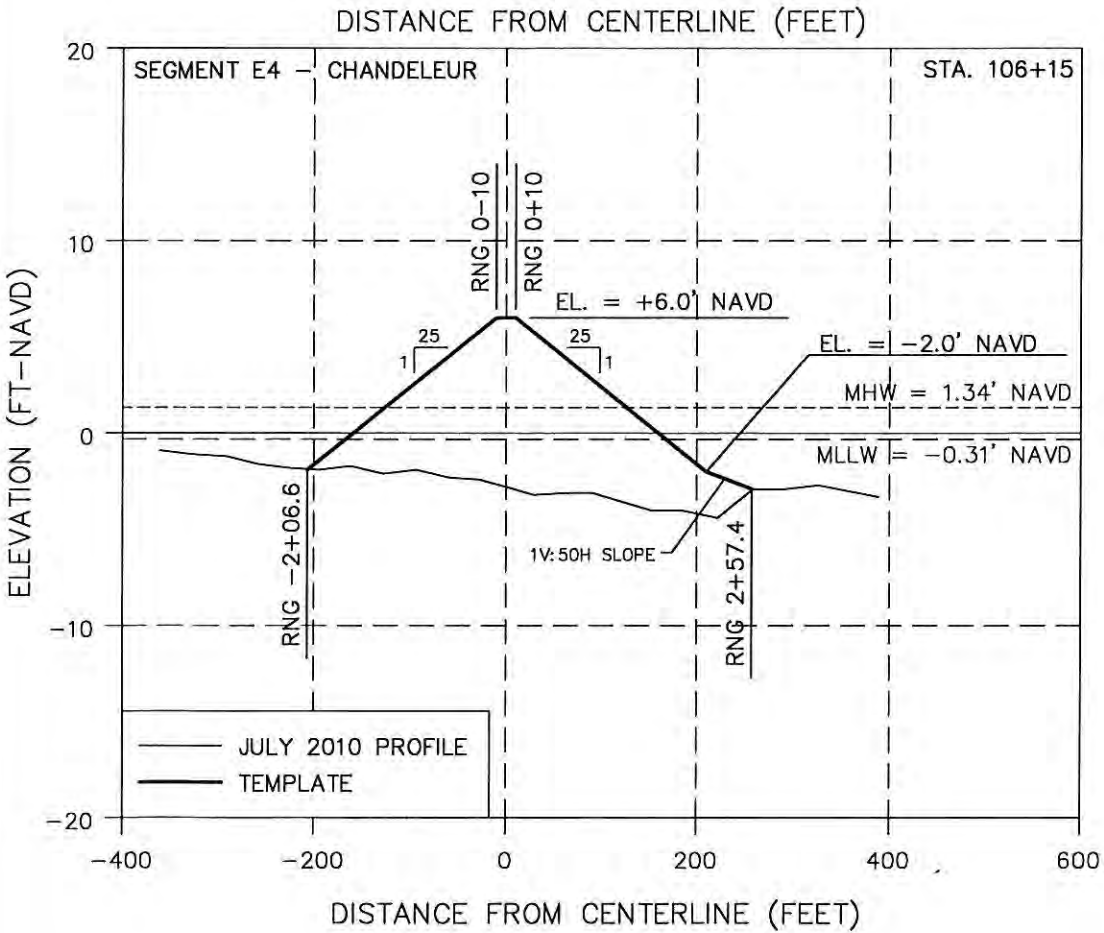
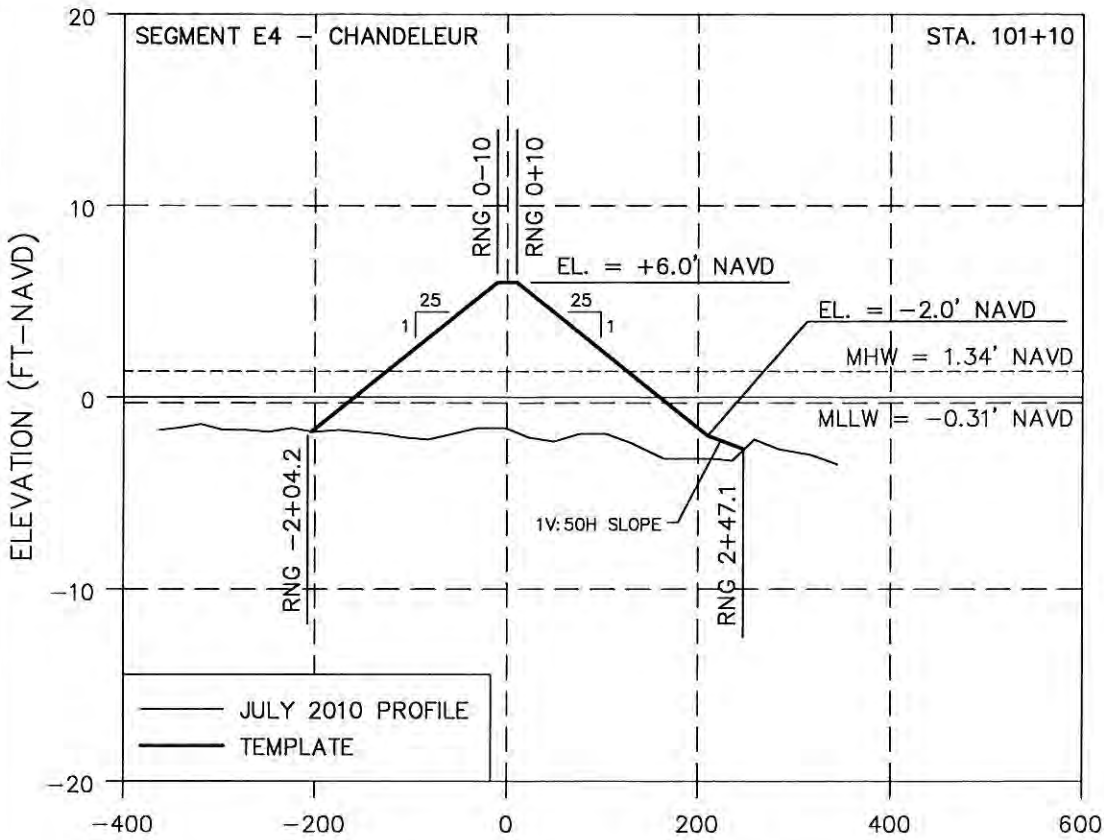
APPROVED BY:

DESIGNED BY:

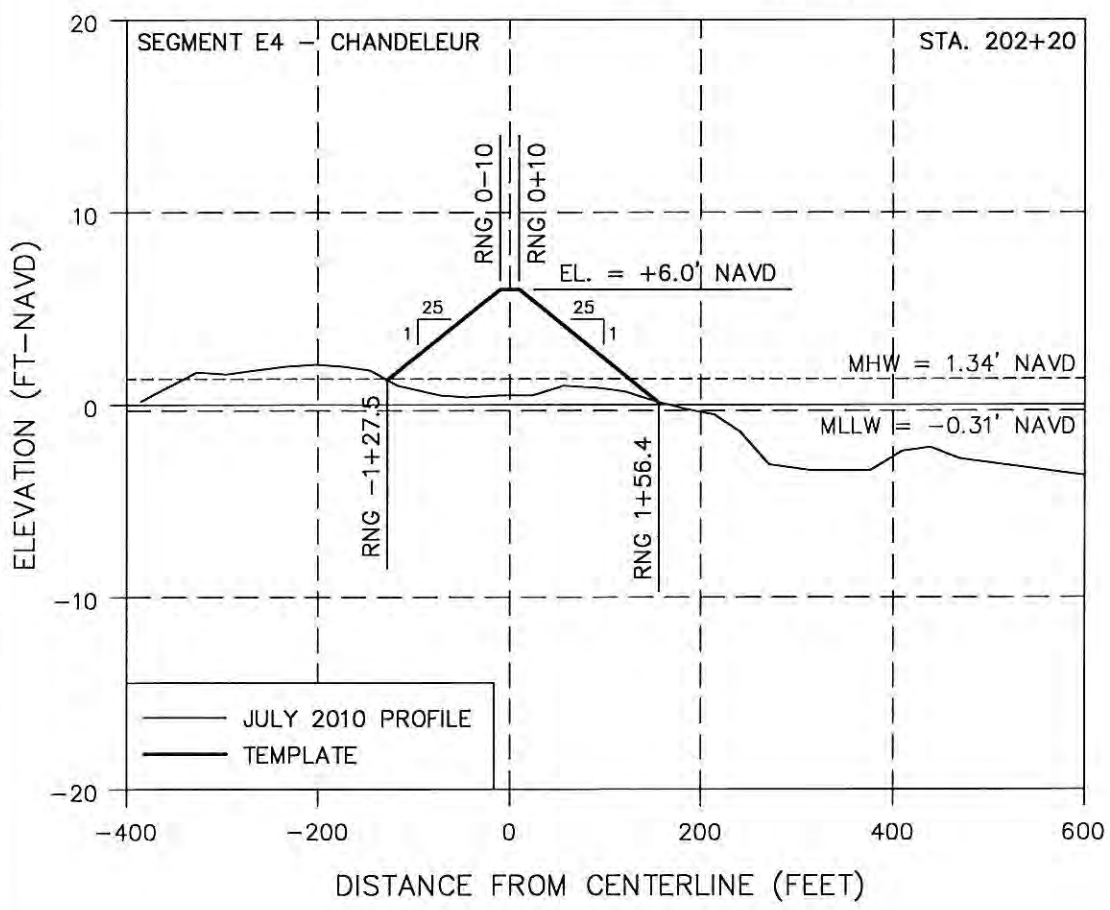
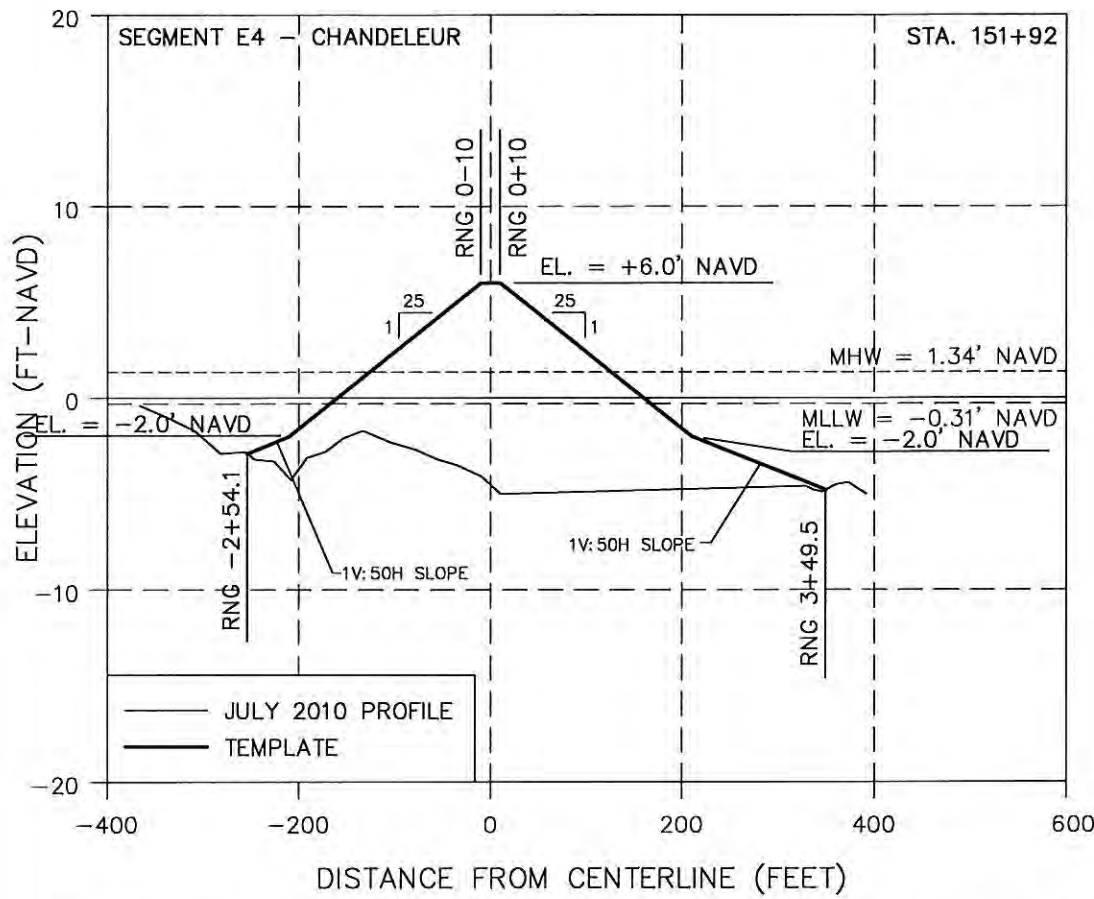
DRAWN BY:

SHEET 11 OF 22

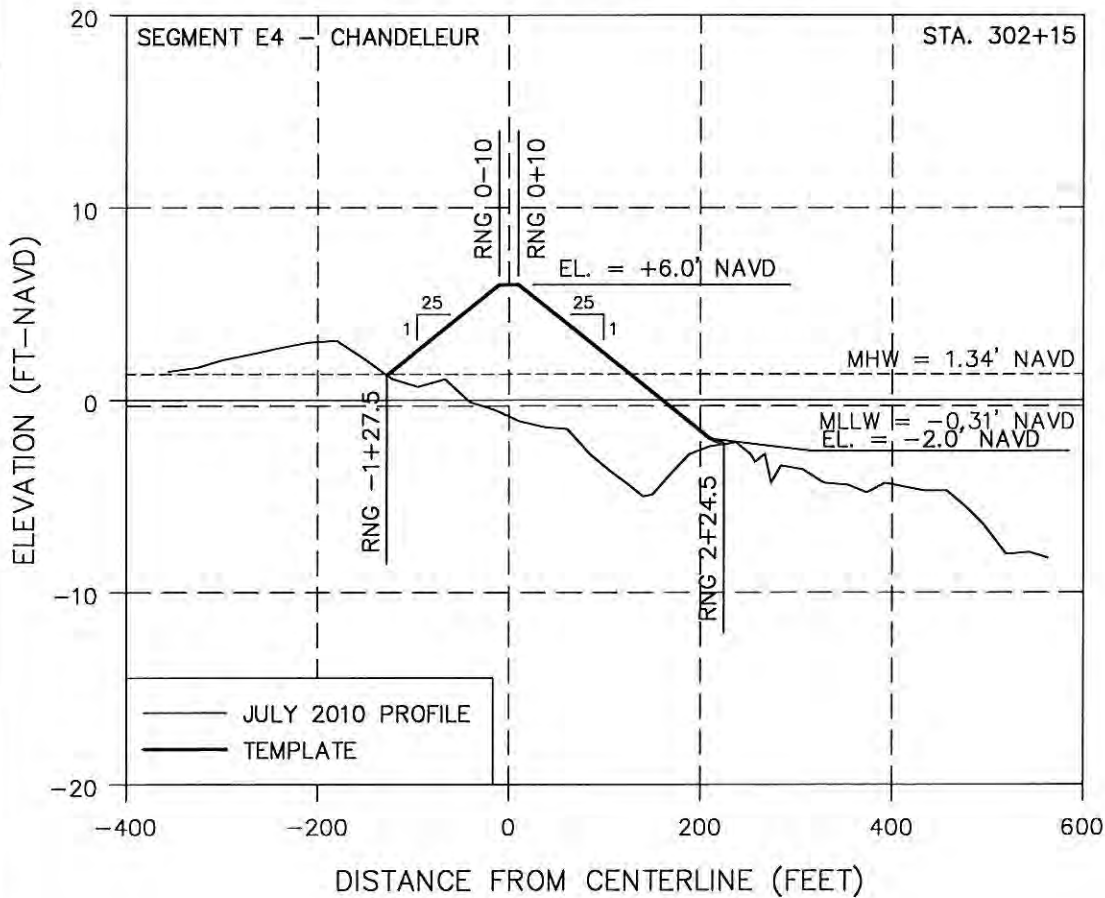
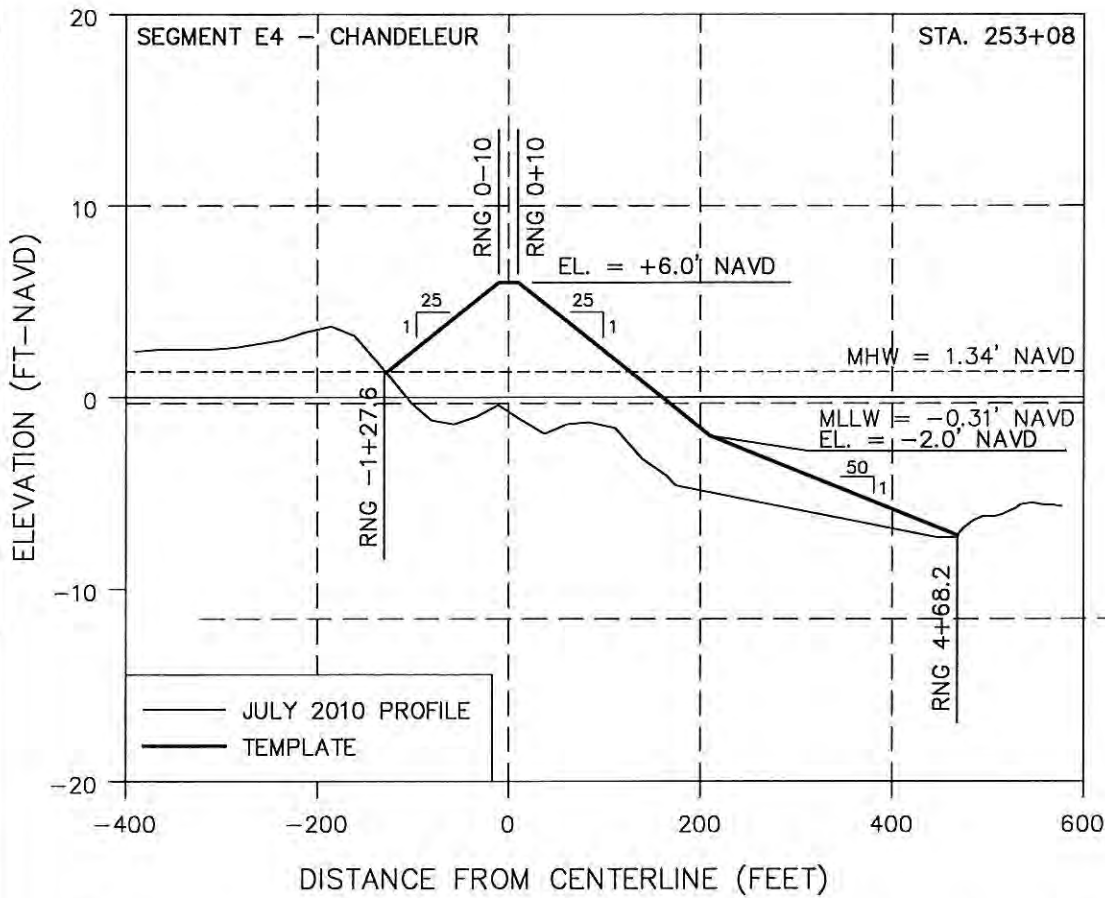
FEDERAL PROJECT NUMBER:



SEGMENT E4 PROFILES	DATE: 10/15/10 SHEET 12 OF 22
BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: DRAWN BY:



<p>SEGMENT E4 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/15/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 13 OF 22</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



SEGMENT E4  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

STATE PROJECT NUMBER:

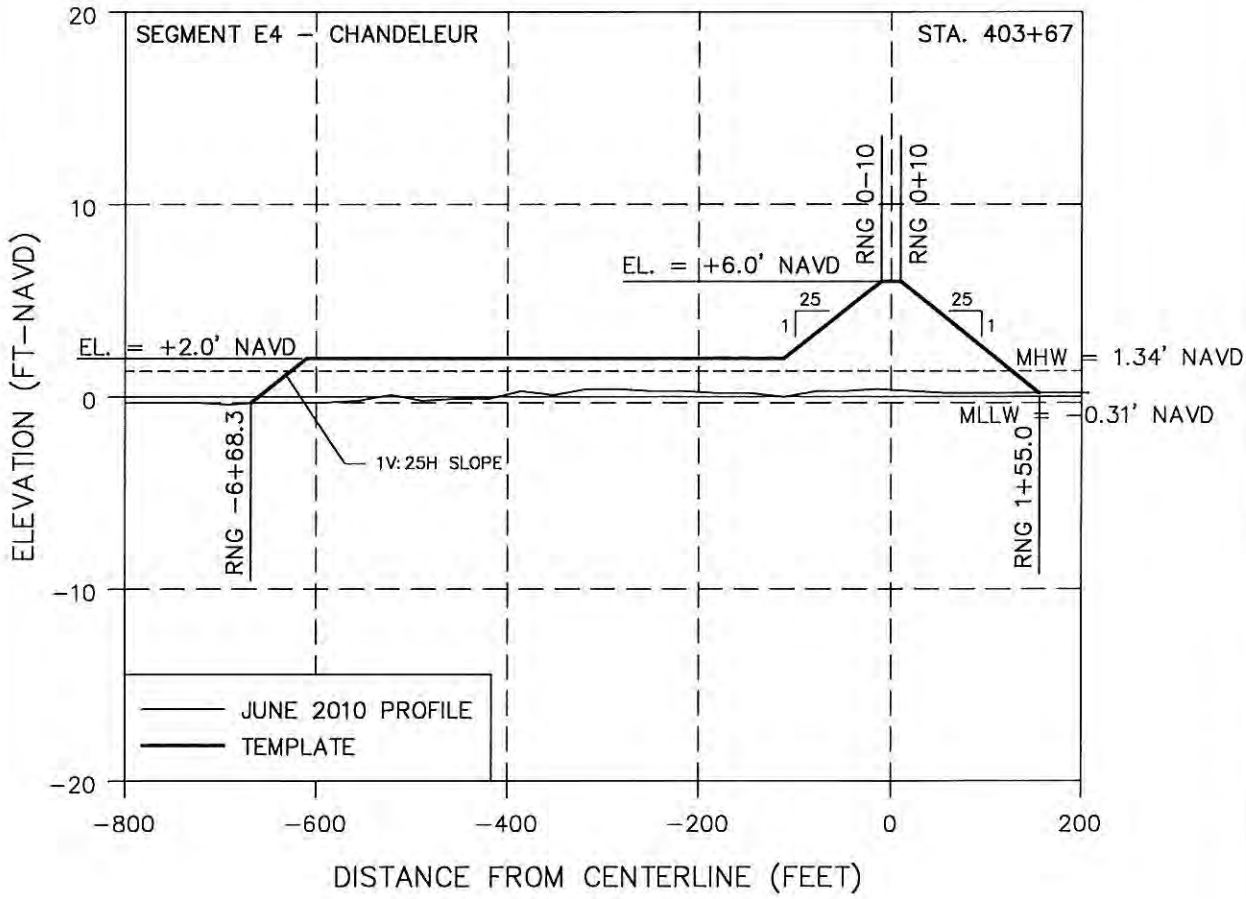
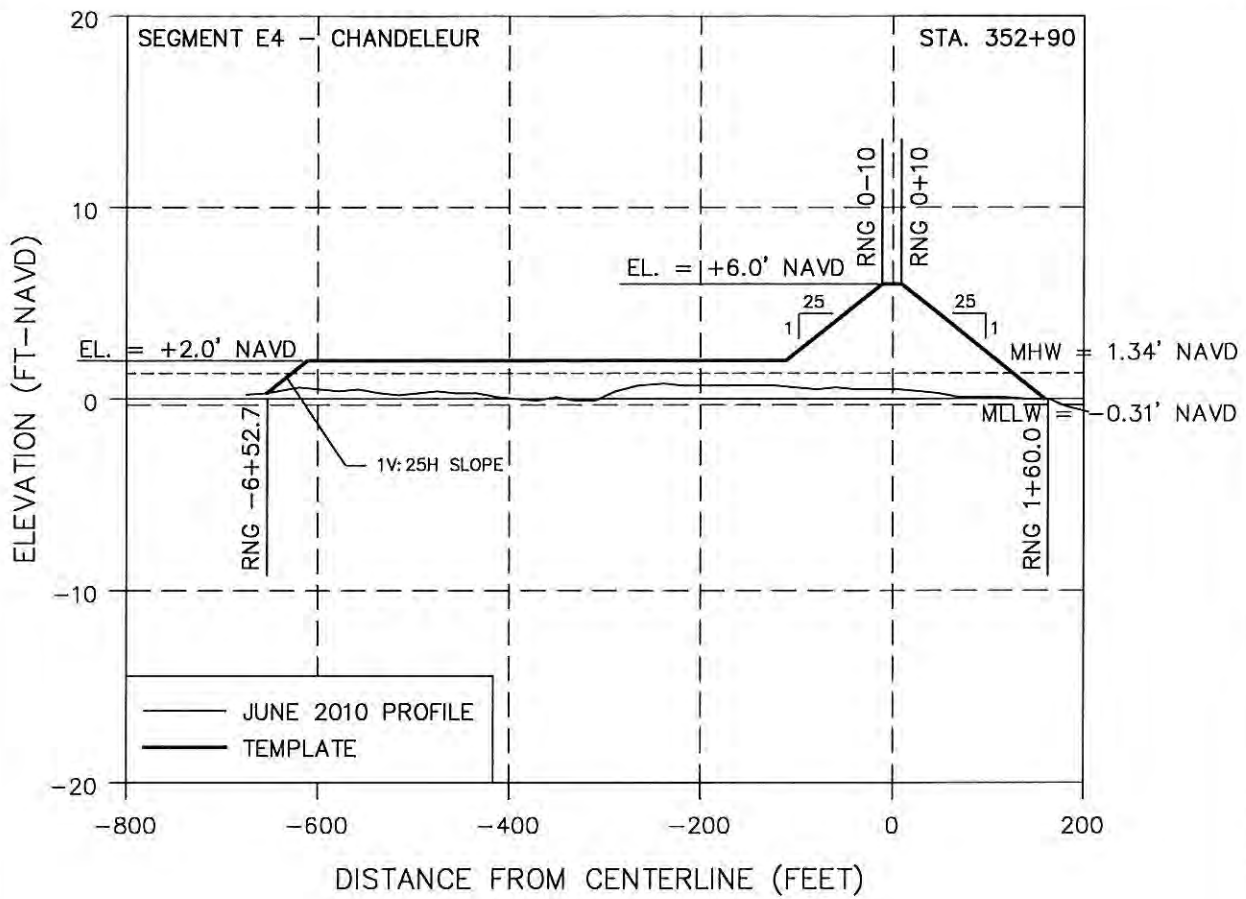
APPROVED BY:

DESIGNED BY:

DRAWN BY:

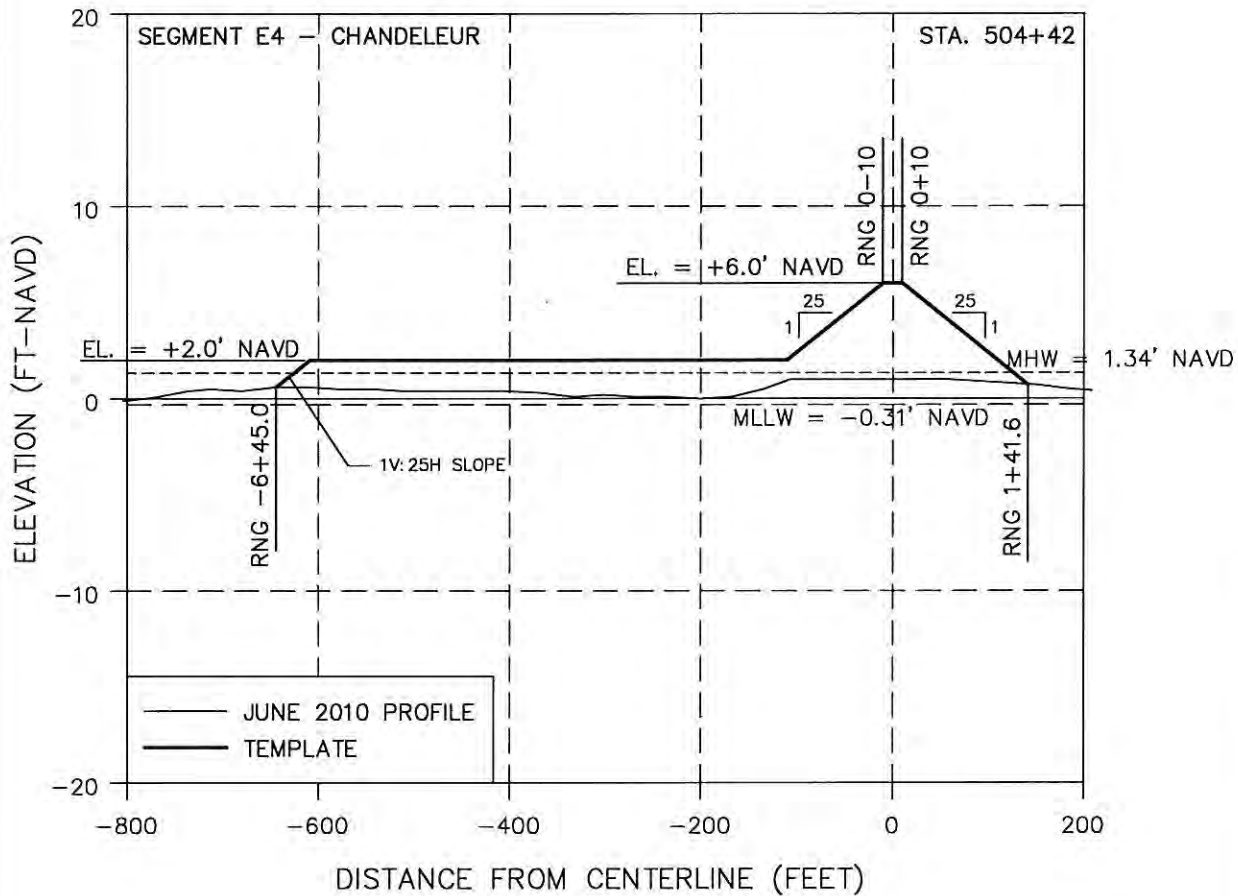
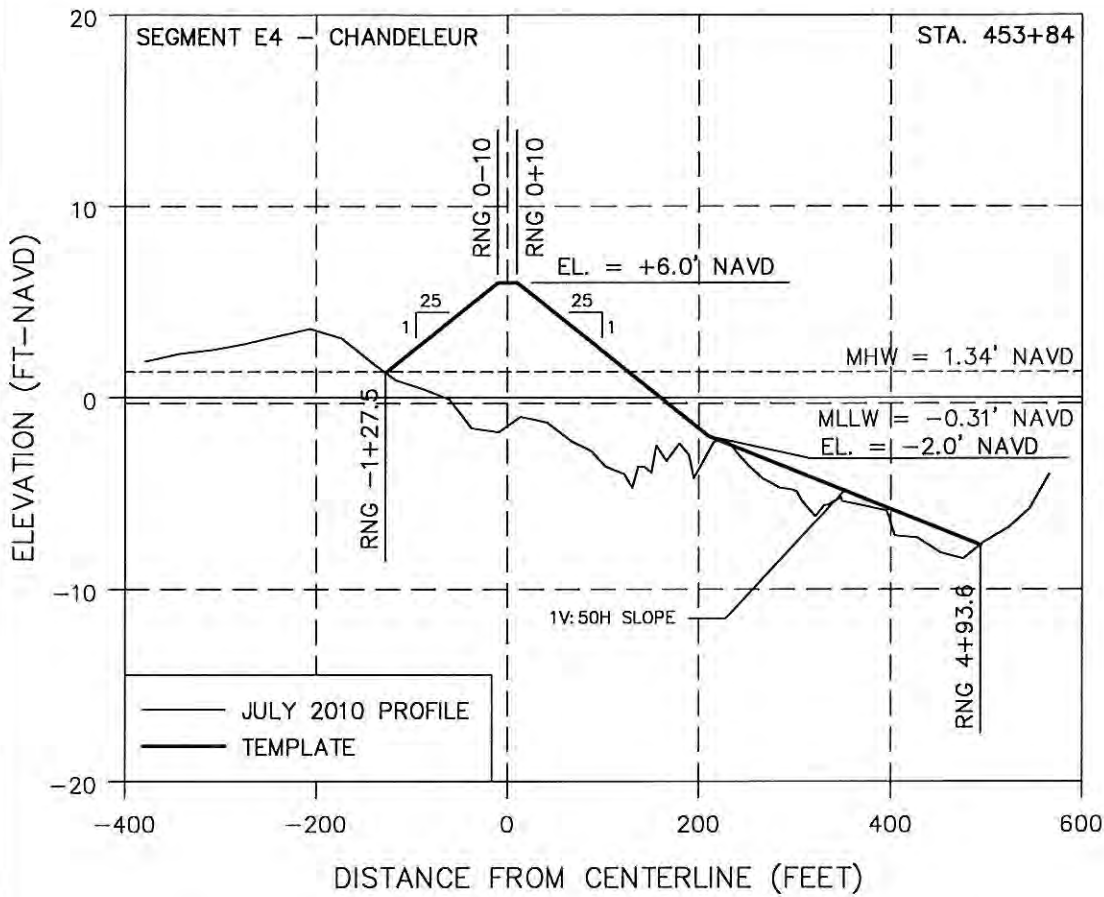
SHEET 14 OF 22

FEDERAL PROJECT NUMBER:

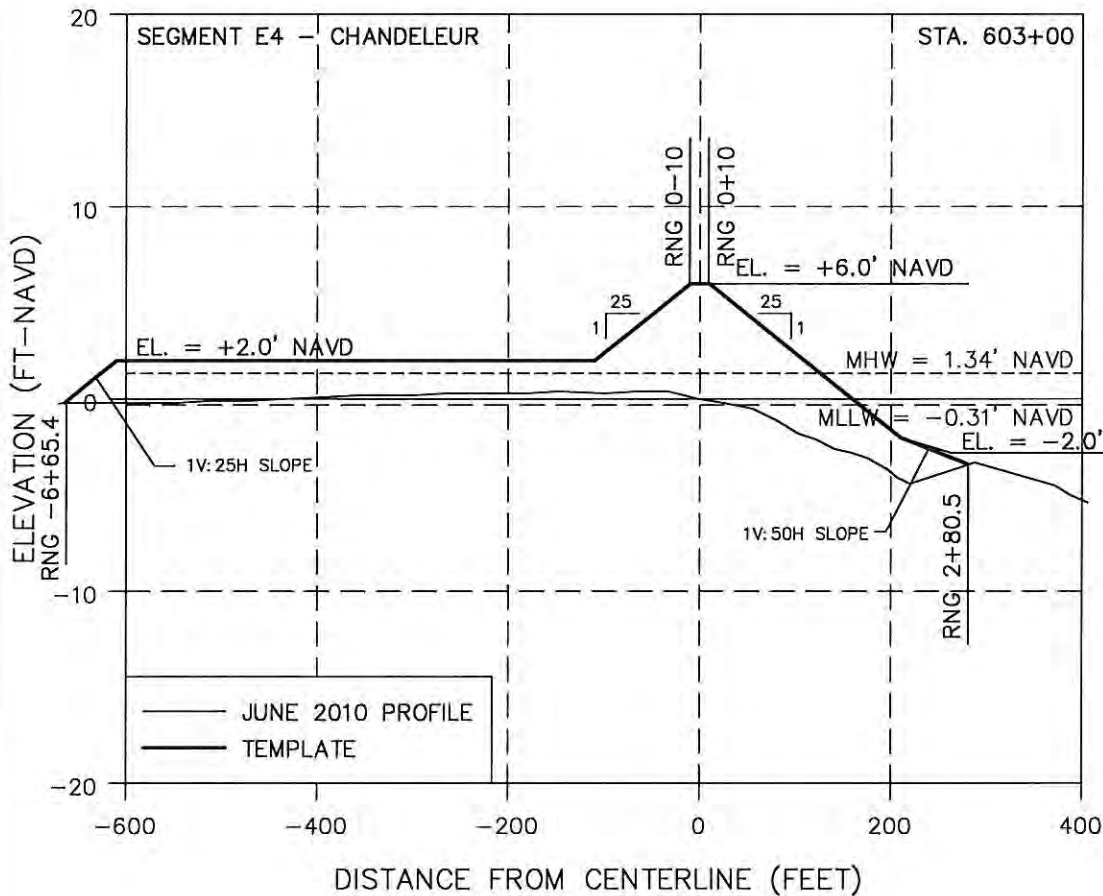
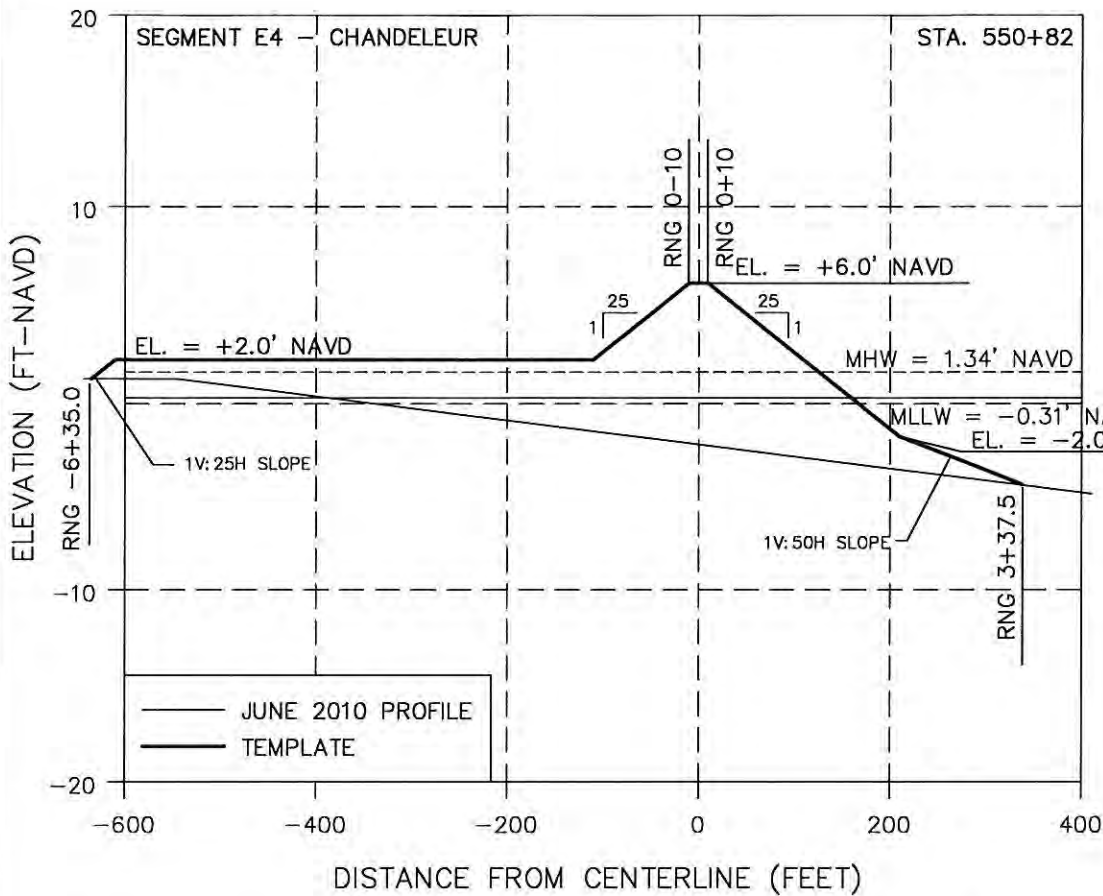


<p>SEGMENT E4 PROFILES</p>	<p>DATE: 10/15/10 SHEET 15 OF 22</p>
<p>BARRIER ISLAND DEFENSE</p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: DRAWN BY:</p>





<p>SEGMENT E4 PROFILES</p>	<p>DATE: 10/15/10 SHEET 16 OF 22</p>
<p>BARRIER ISLAND DEFENSE</p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: DRAWN BY:</p>



SEGMENT E4  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

SHEET 17 OF 22

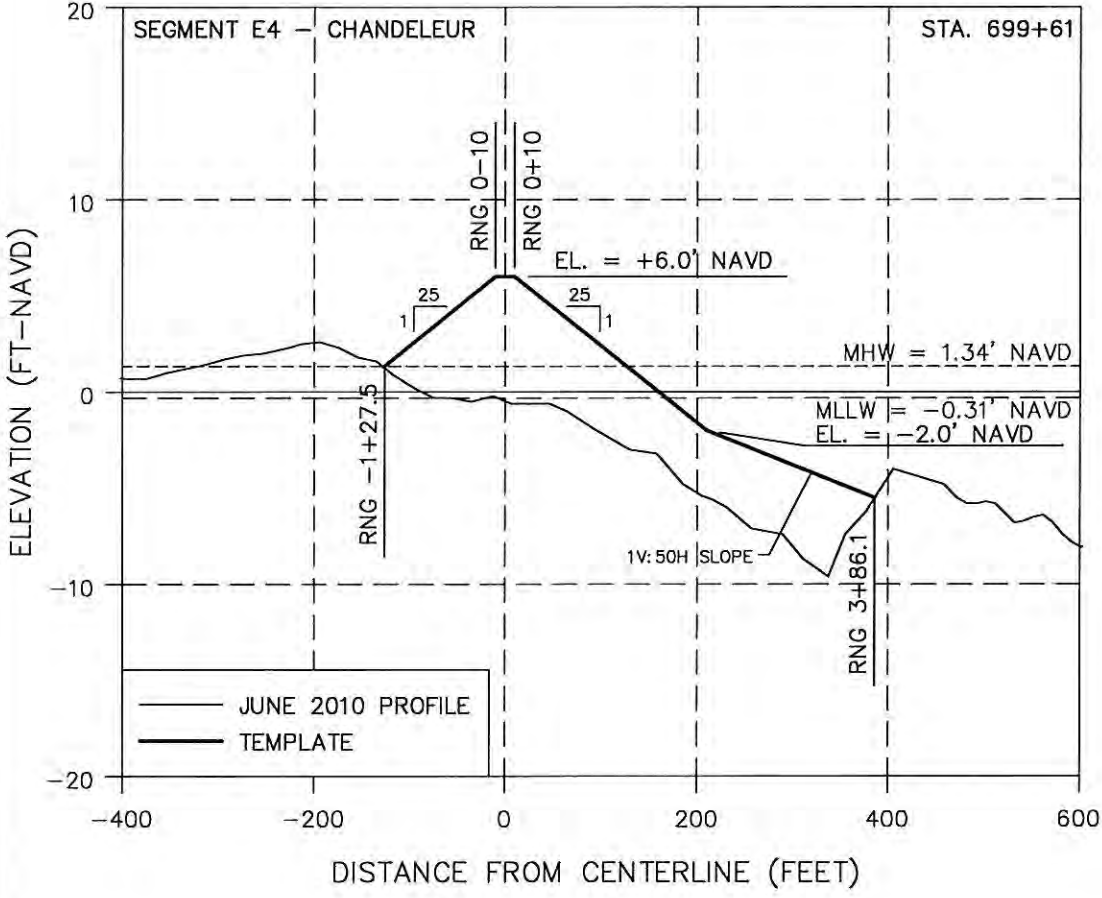
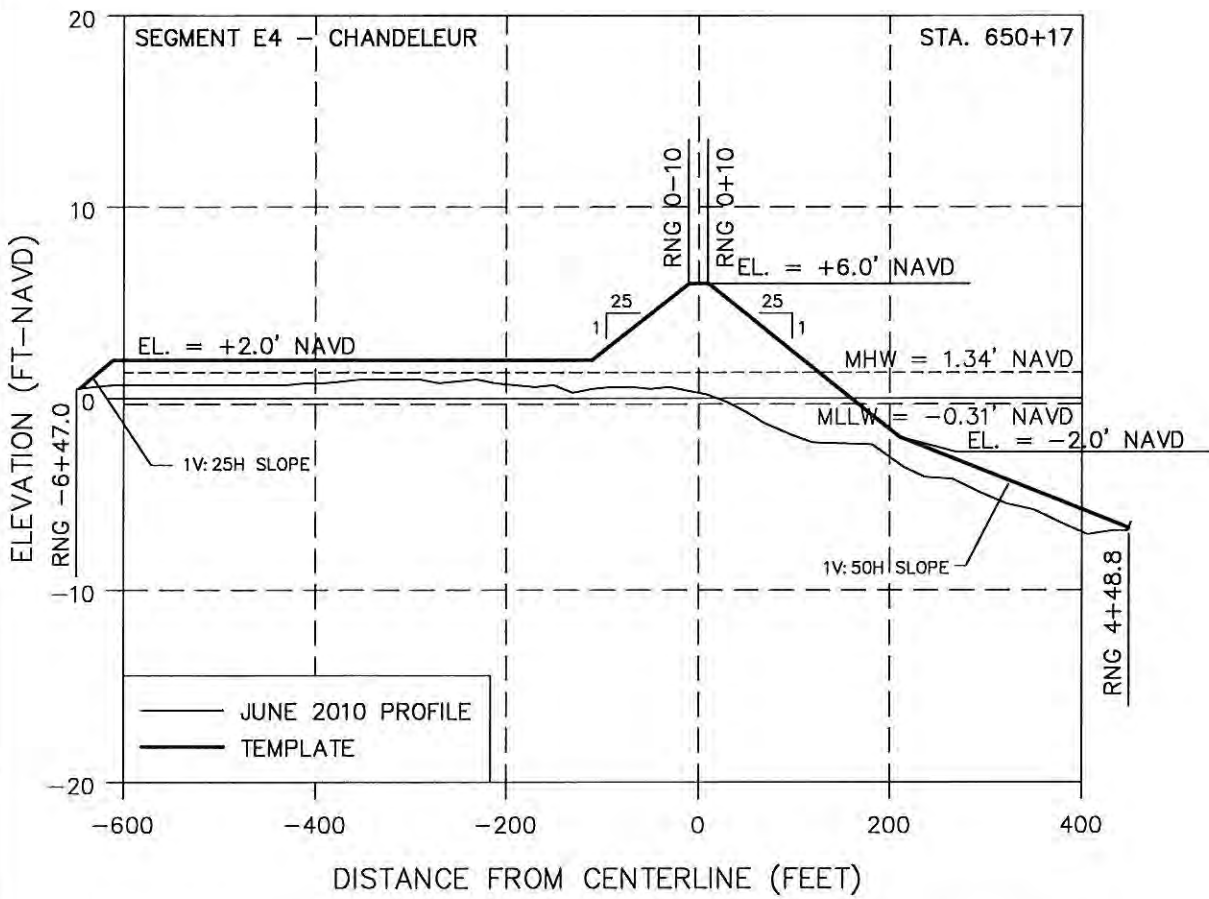
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

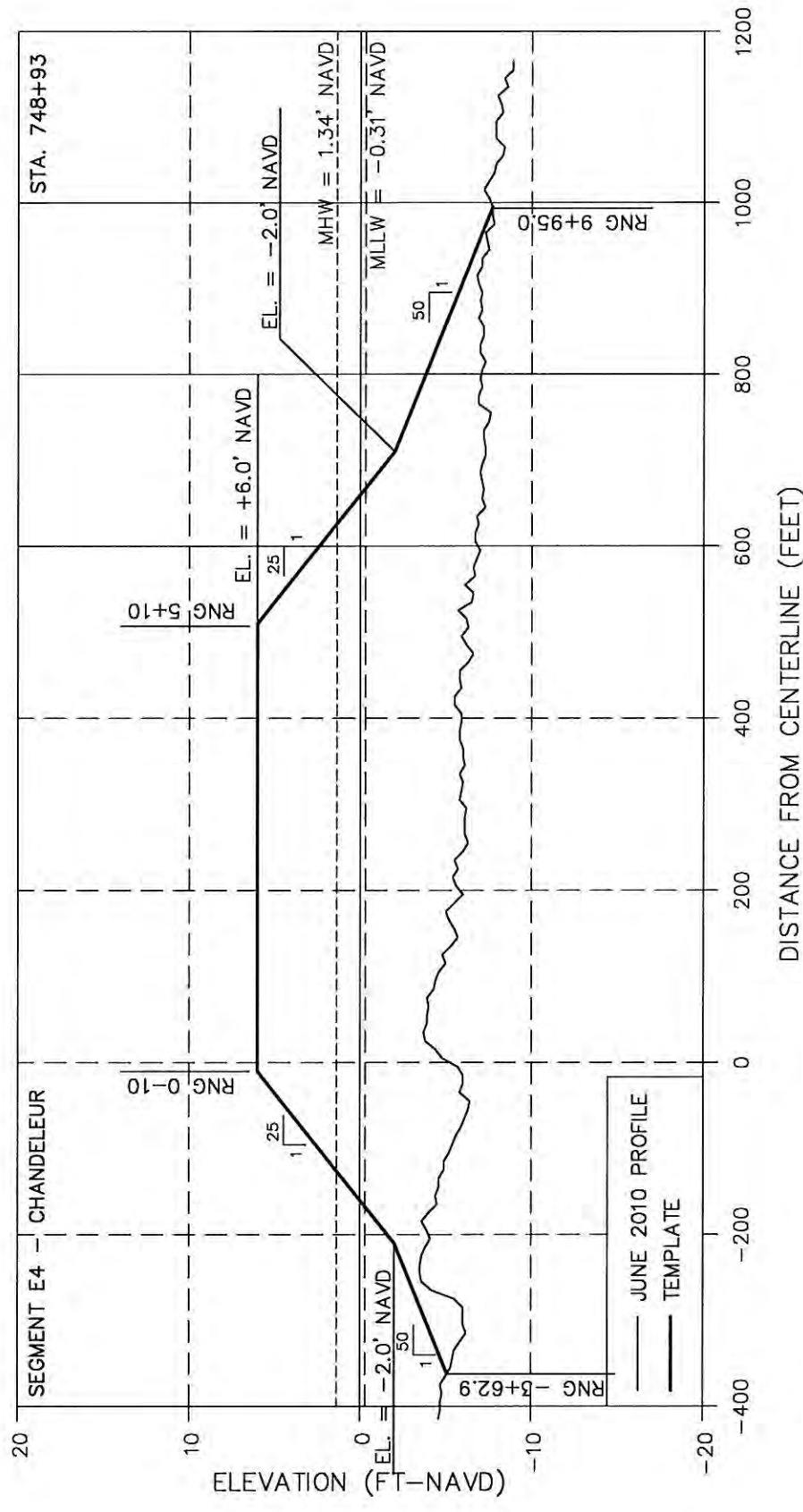
APPROVED BY:

DESIGNED BY:

DRAWN BY:

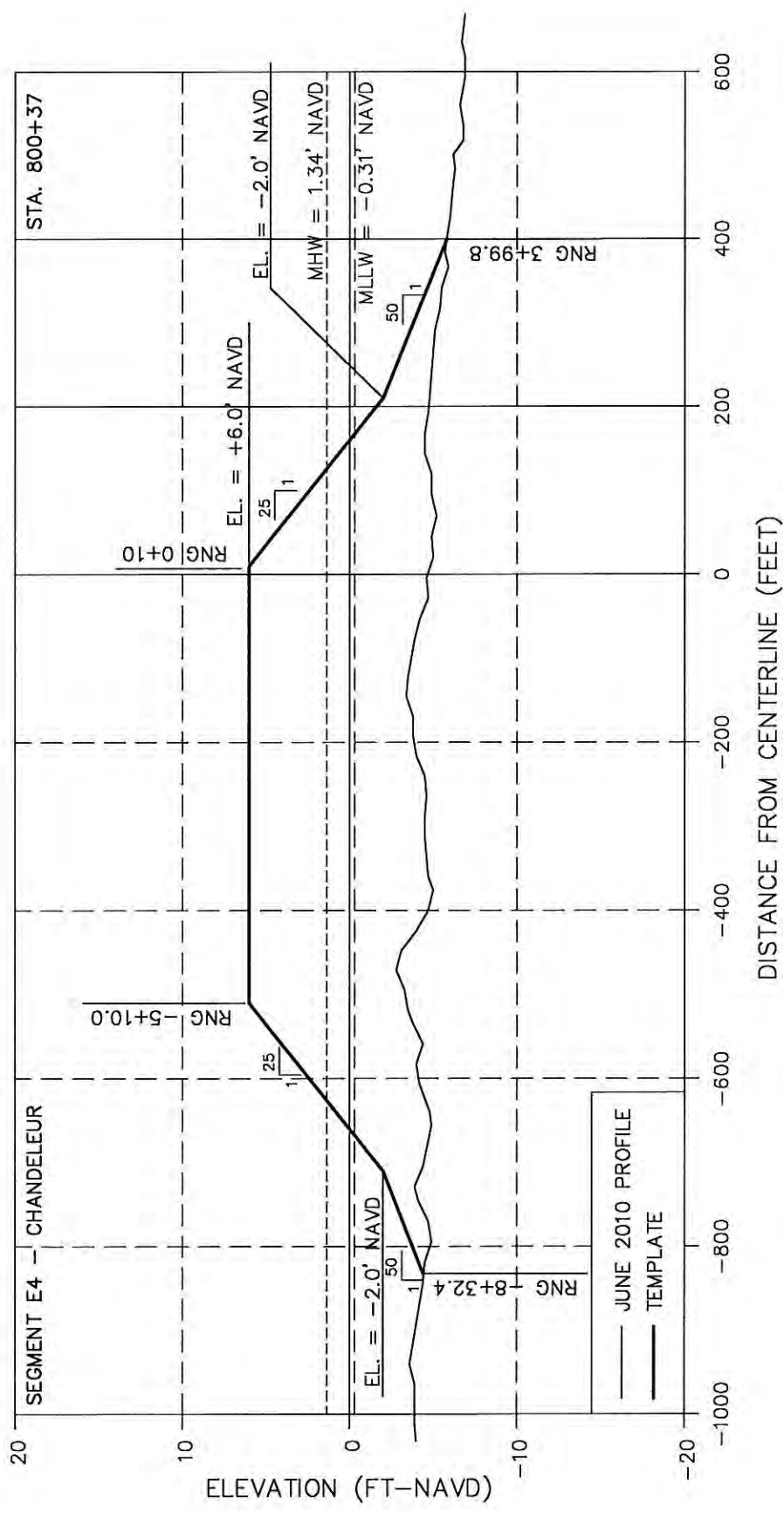


<p>SEGMENT E4 PROFILES</p>	<p>DATE: 10/15/10 SHEET 18 OF 22</p>
<p>BARRIER ISLAND DEFENSE</p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: DRAWN BY:</p>



DISTANCE FROM CENTERLINE (FEET)

<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>SEGMENT E4 PROFILES</p>
<p>DRAWN BY:</p>	<p>DESIGNED BY:</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>STATE PROJECT NUMBER: DATE: 10/15/10 SHEET 19 OF 22</p>



DISTANCE FROM CENTERLINE (FEET)

ELEVATION (FT-NAVD)

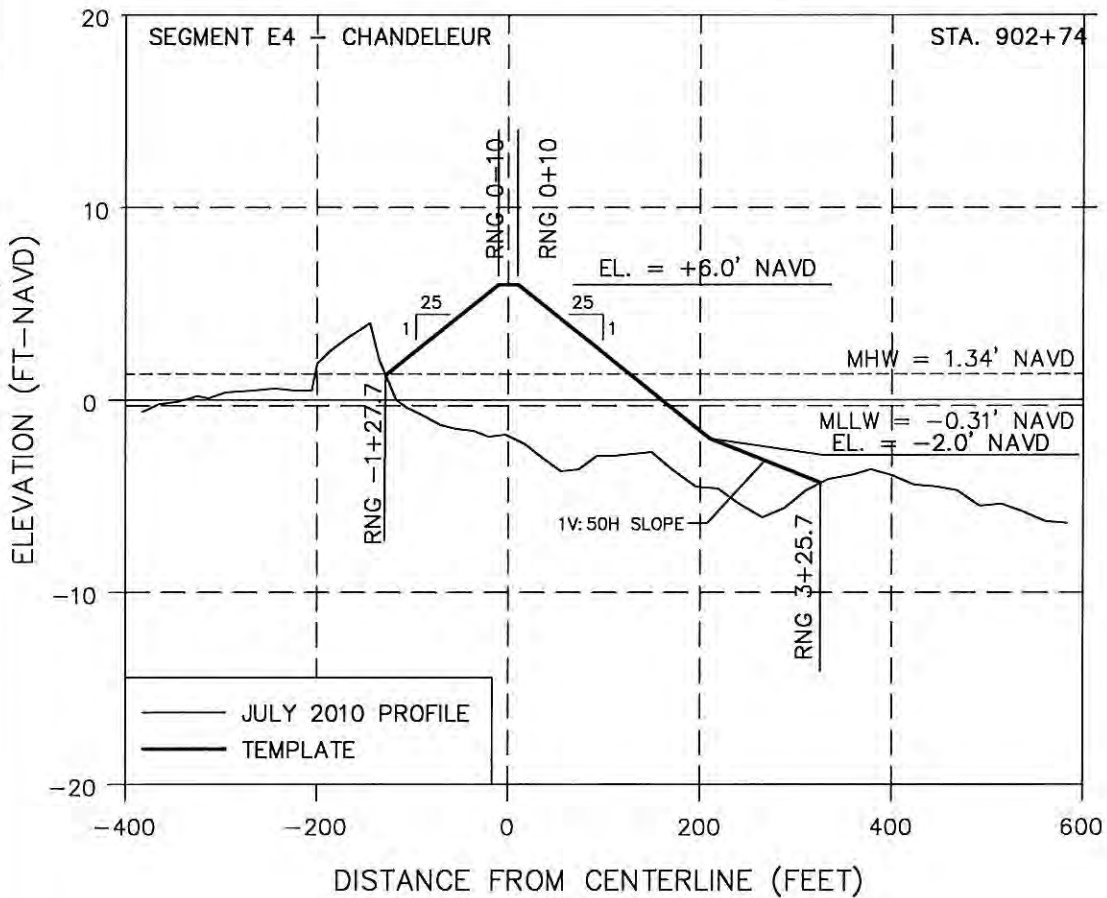
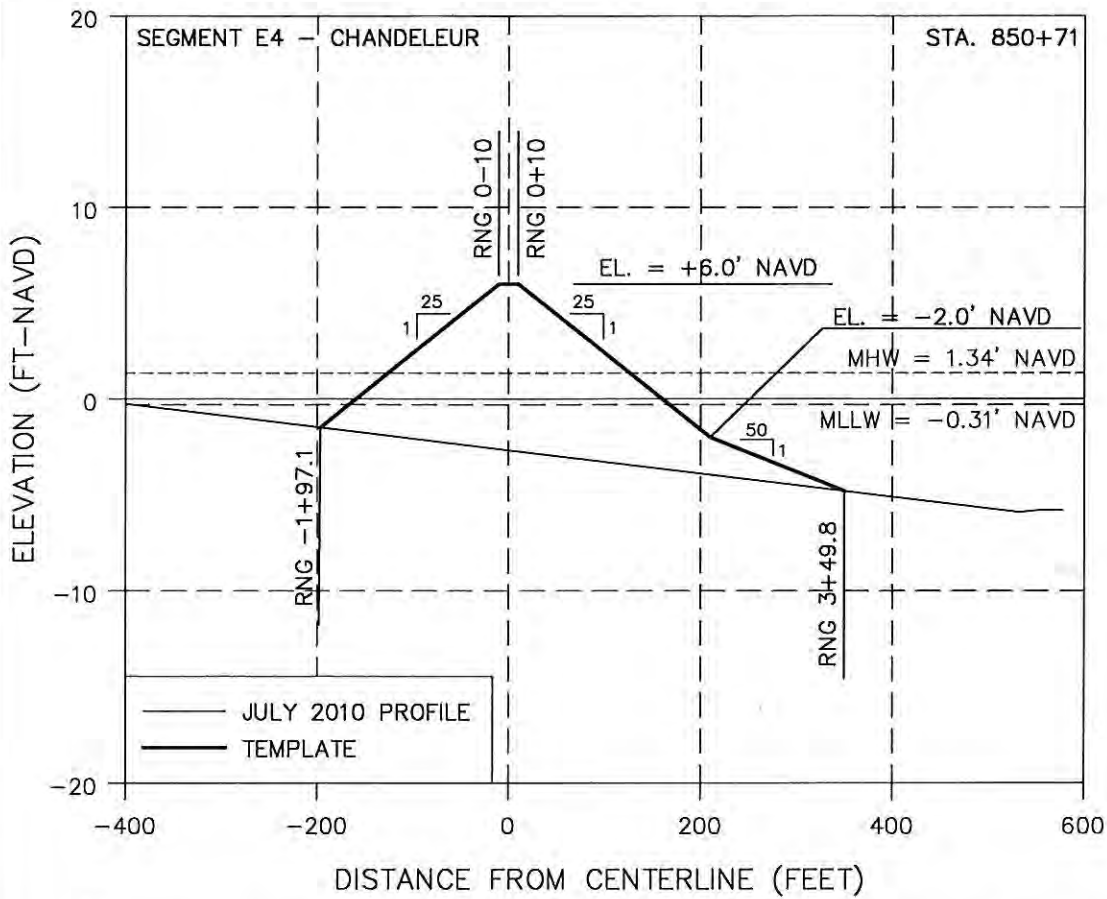
— JUNE 2010 PROFILE  
 - - - - - TEMPLATE

20  
10  
0  
-10  
-20

SEGMENT E4 - CHANDELEUR

-1000 -800 -600 -400 -200 0 200 400 600

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT E4 PROFILES
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 10/15/10 SHEET 20 OF 22



SEGMENT E4  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/15/10

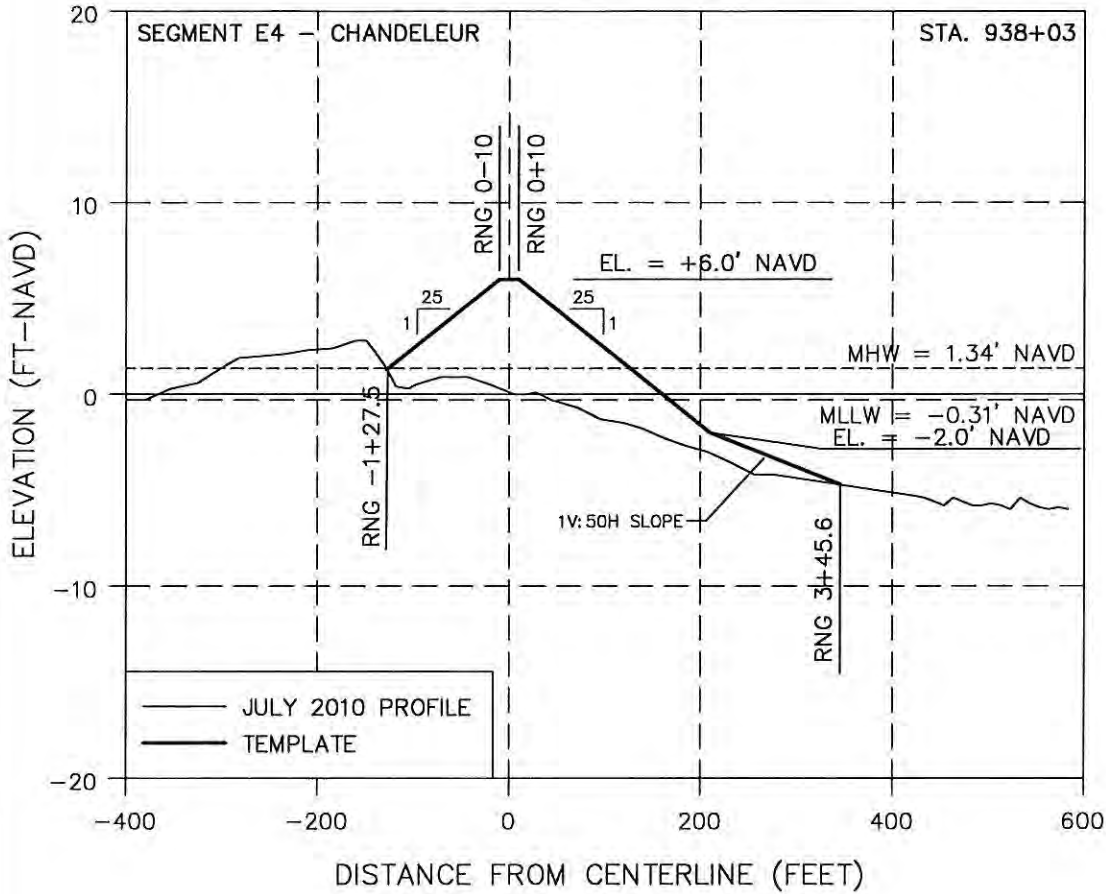
STATE PROJECT NUMBER:

APPROVED BY:

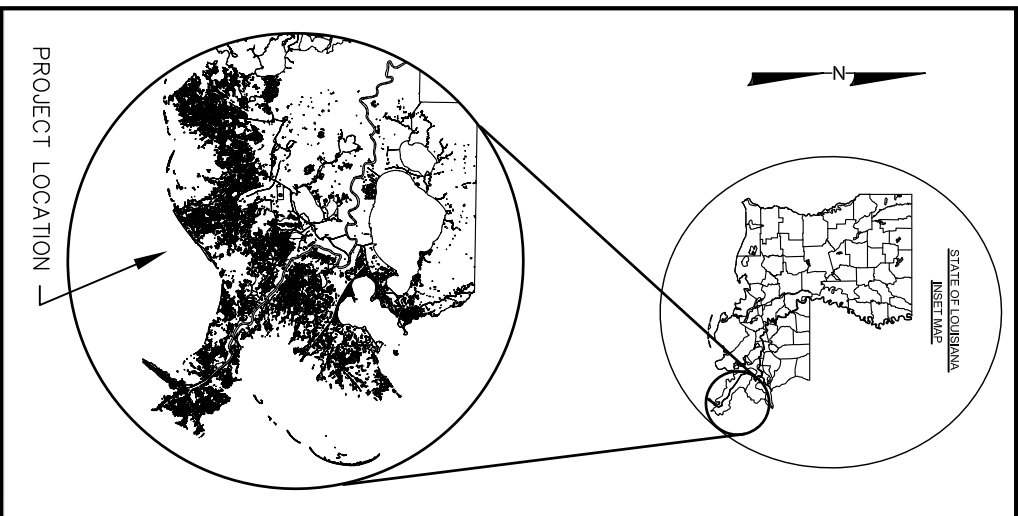
DESIGNED BY:

SHEET 21 OF 22

DRAWN BY:



<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>SEGMENT E4 PROFILES</p>
<p>DESIGNED BY:</p>	<p>STATE PROJECT NUMBER:</p>	<p>BARRIER ISLAND DEFENSE</p>
<p>DRAWN BY:</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>DATE: 10/15/10 SHEET 22 OF 22</p>



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DESIGNED BY:  
**OFFICE OF COASTAL PROTECTION & RESTORATION  
 ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

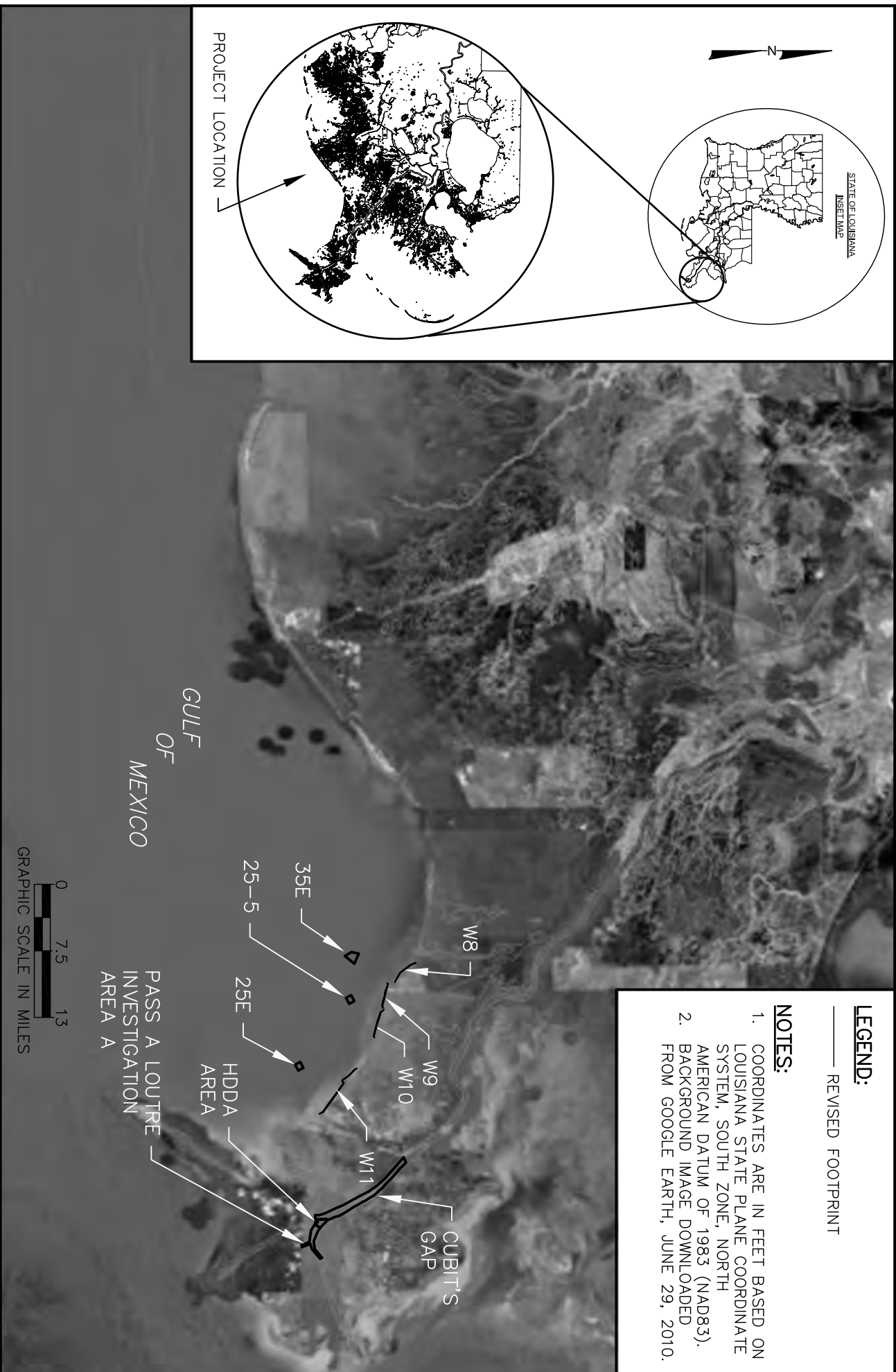
APPROVED BY:

REACHES W8 TO W11  
**EMERGENCY PERMIT**

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

LOCATION MAP

DATE: 10/19/10  
 SHEET 1 OF 1



**LEGEND:**  
 \_\_\_\_\_ REVISED FOOTPRINT

**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- BACKGROUND IMAGE DOWNLOADED FROM GOOGLE EARTH, JUNE 29, 2010.

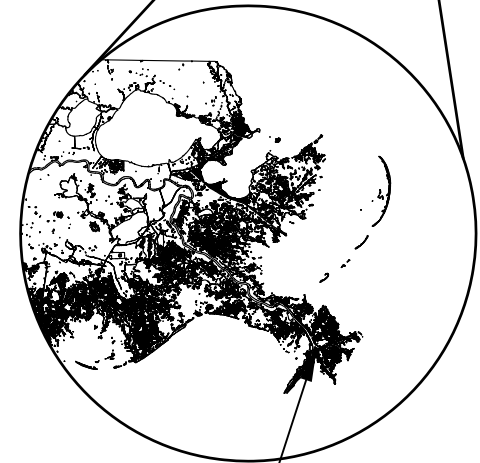
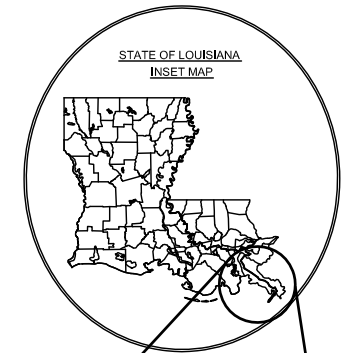
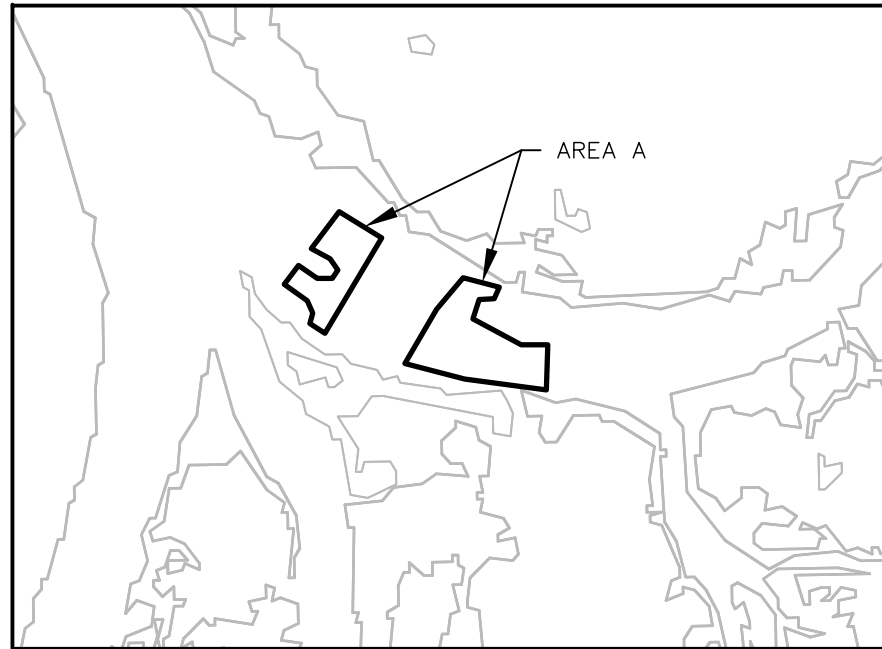


STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH

PASS A LOUTRE EMERGENCY PERMIT  
AREA A

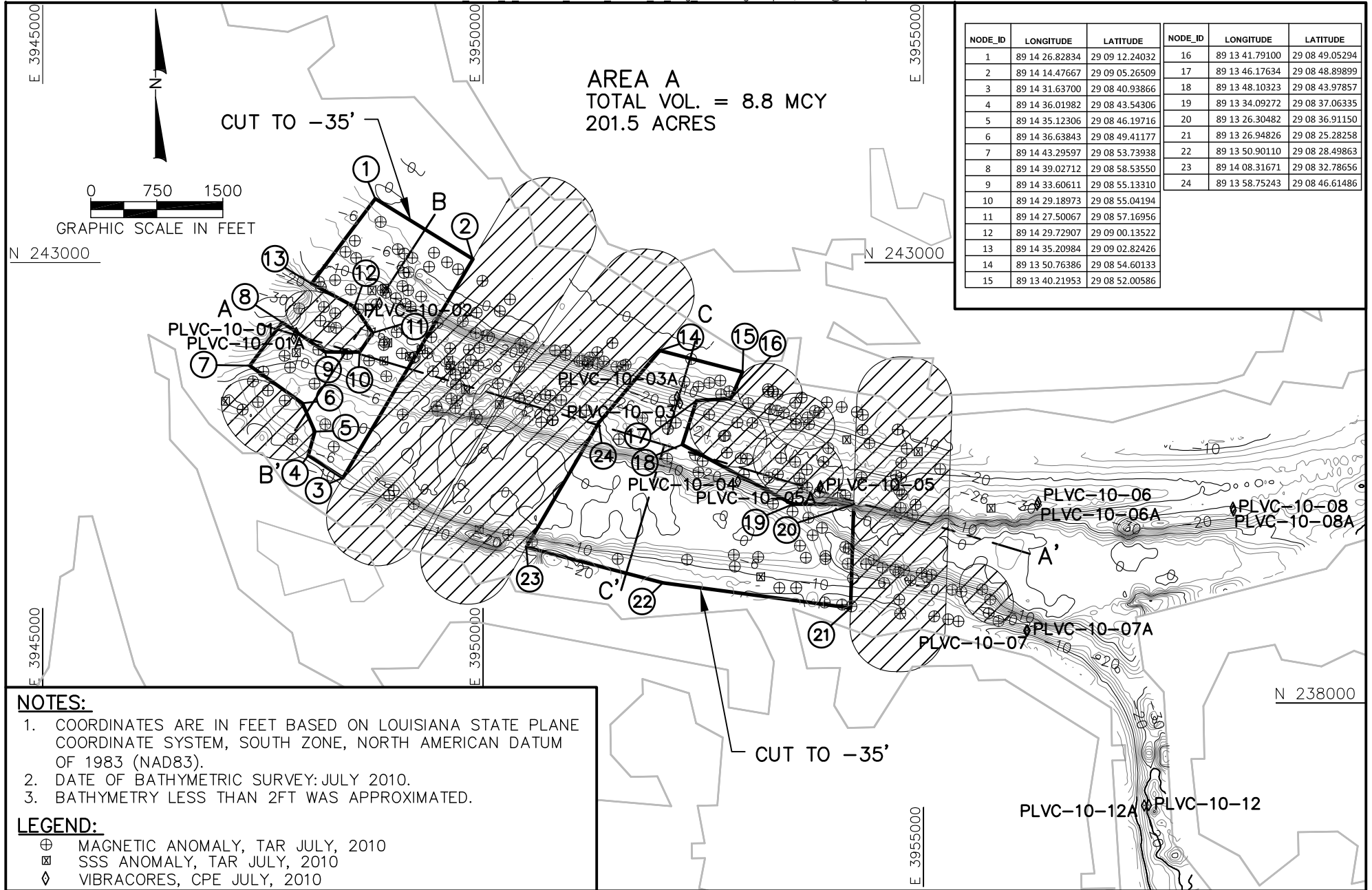
INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	PLAN VIEW
3 - 4	CROSS SECTIONS



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	PASS A LOUTRE EMERGENCY PERMIT AREA A	TITLE SHEET
		STATE PROJECT NUMBER:	DATE: 08/10/10
DRAWN BY:	DESIGNED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER: SHEET 1 OF 4



NODE_ID	LONGITUDE	LATITUDE	NODE_ID	LONGITUDE	LATITUDE
1	89 14 26.82834	29 09 12.24032	16	89 13 41.79100	29 08 49.05294
2	89 14 14.47667	29 09 05.26509	17	89 13 46.17634	29 08 48.89899
3	89 14 31.63700	29 08 40.93866	18	89 13 48.10323	29 08 43.97857
4	89 14 36.01982	29 08 43.54306	19	89 13 34.09272	29 08 37.06335
5	89 14 35.12306	29 08 46.19716	20	89 13 26.30482	29 08 36.91150
6	89 14 36.63843	29 08 49.41177	21	89 13 26.94826	29 08 25.28258
7	89 14 43.29597	29 08 53.73938	22	89 13 50.90110	29 08 28.49863
8	89 14 39.02712	29 08 58.53550	23	89 14 08.31671	29 08 32.78656
9	89 14 33.60611	29 08 55.13310	24	89 13 58.75243	29 08 46.61486
10	89 14 29.18973	29 08 55.04194			
11	89 14 27.50067	29 08 57.16956			
12	89 14 29.72907	29 09 00.13522			
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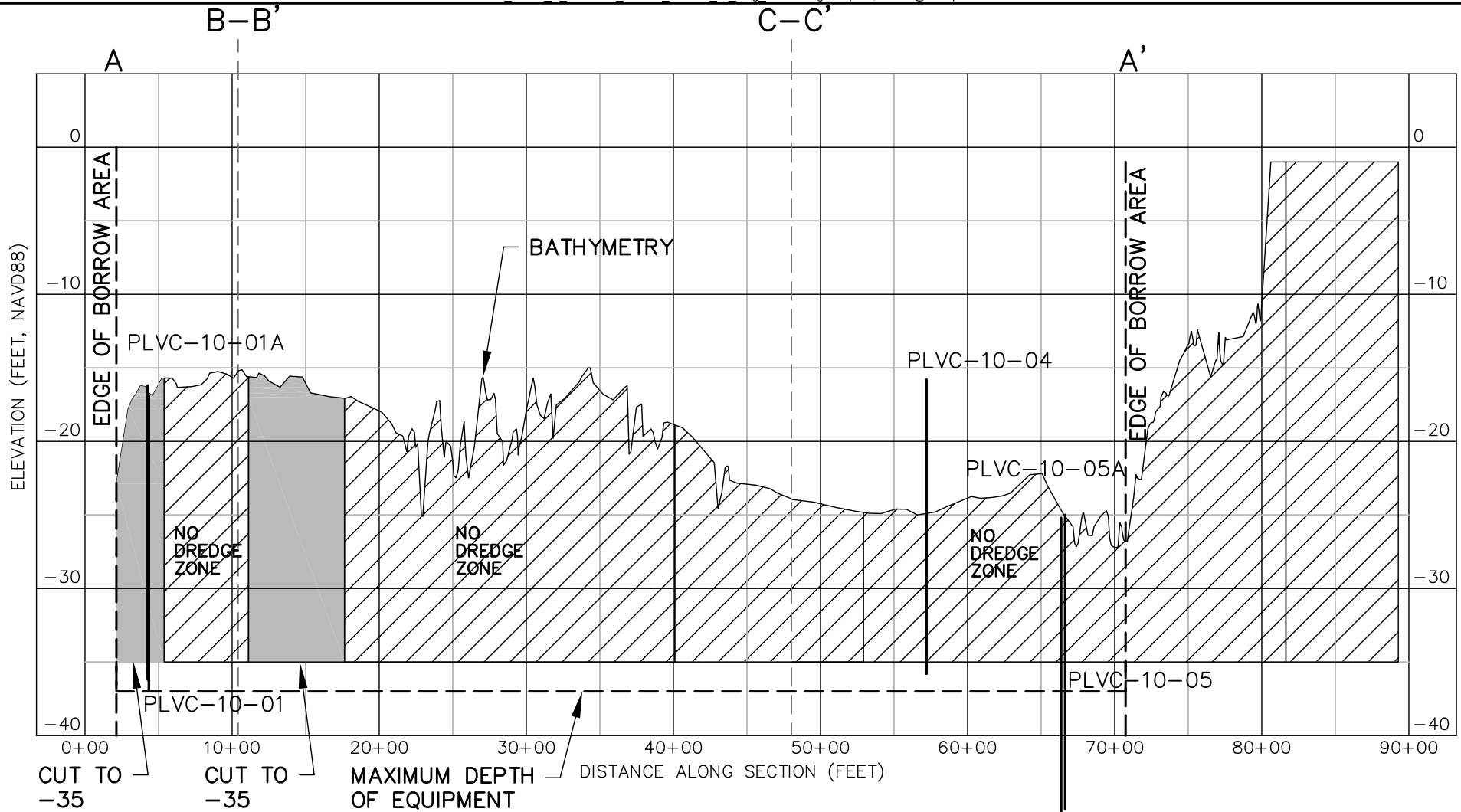
**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- DATE OF BATHYMETRIC SURVEY: JULY 2010.
- BATHYMETRY LESS THAN 2FT WAS APPROXIMATED.

**LEGEND:**

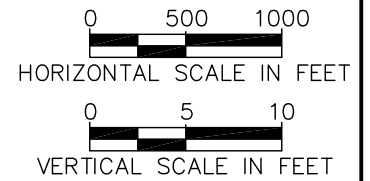
- ⊕ MAGNETIC ANOMALY, TAR JULY, 2010
- ⊗ SSS ANOMALY, TAR JULY, 2010
- ◇ VIBRACORES, CPE JULY, 2010

APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		PASS A LOUTRE EMERGENCY PERMIT AREA A		PLAN VIEW MAP BATHYMETRY IN FT, NAVD88	
DRAWN BY:		DESIGNED BY:		APPROVED BY:		STATE PROJECT NUMBER:	
						DATE: 9/23/10	
						FEDERAL PROJECT NUMBER:	
						SHEET 2 OF 4	

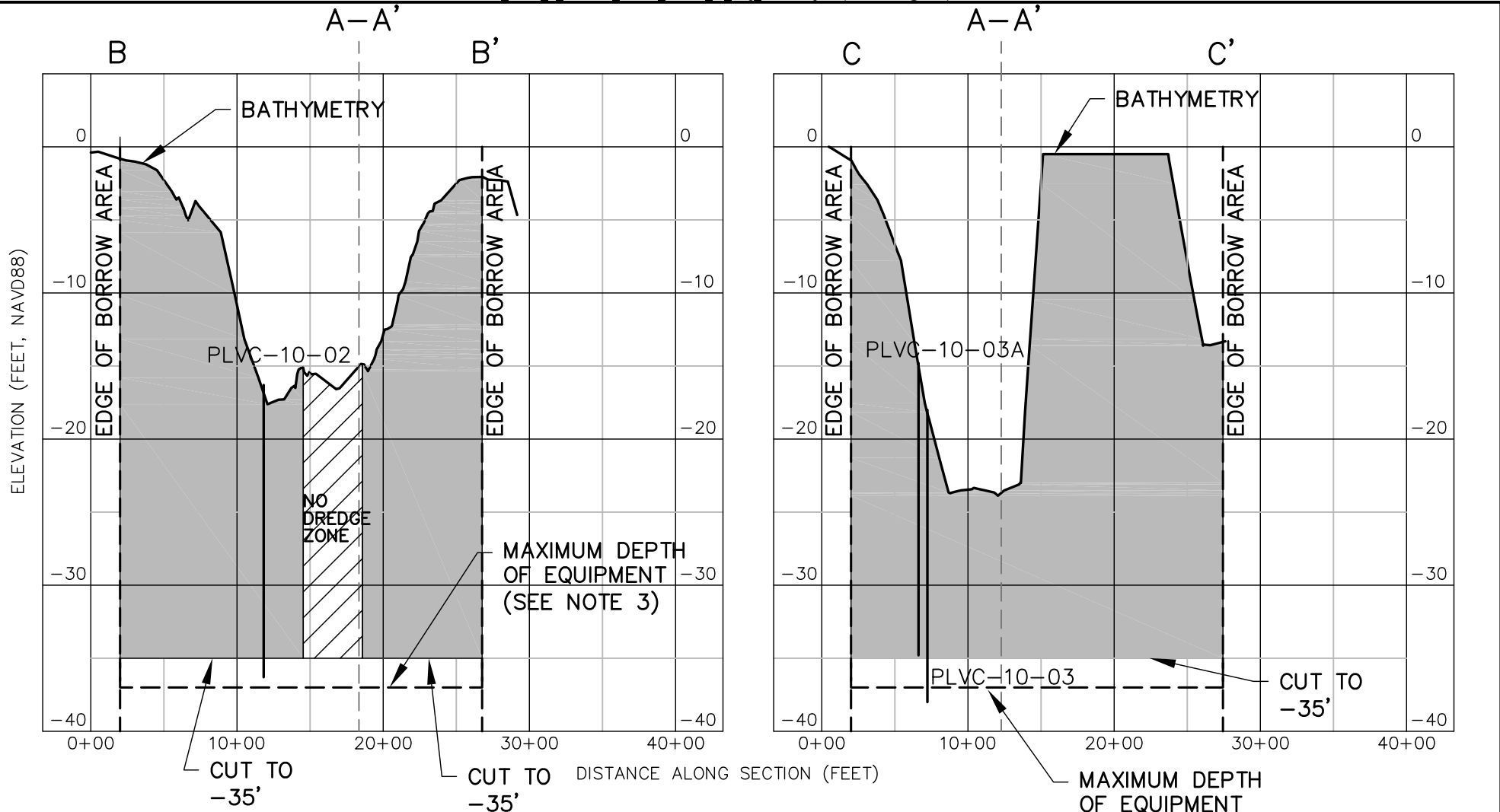


**NOTES:**

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE SUFFICIENTLY CLOSE TO CONTAIN SIMILAR MATERIAL.
2. SEE SHEET 2 FOR LOCATION OF CROSS SECTION LINES.
3. MAXIMUM DEPTH OF EQUIPMENT IS 2 FEET BELOW CUT ELEVATION.
4. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88).
3. MEAN HIGH WATER = 1.5 FT NAVD88.
4. MEAN LOW WATER = -0.3 FT NAVD88.

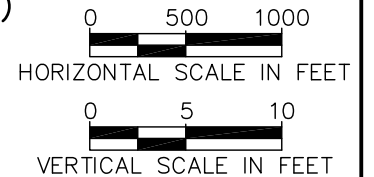


APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	PASS A LOUTRE EMERGENCY PERMIT AREA A	CROSS SECTION A-A'
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 9/29/10
		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
			SHEET 3 OF 4



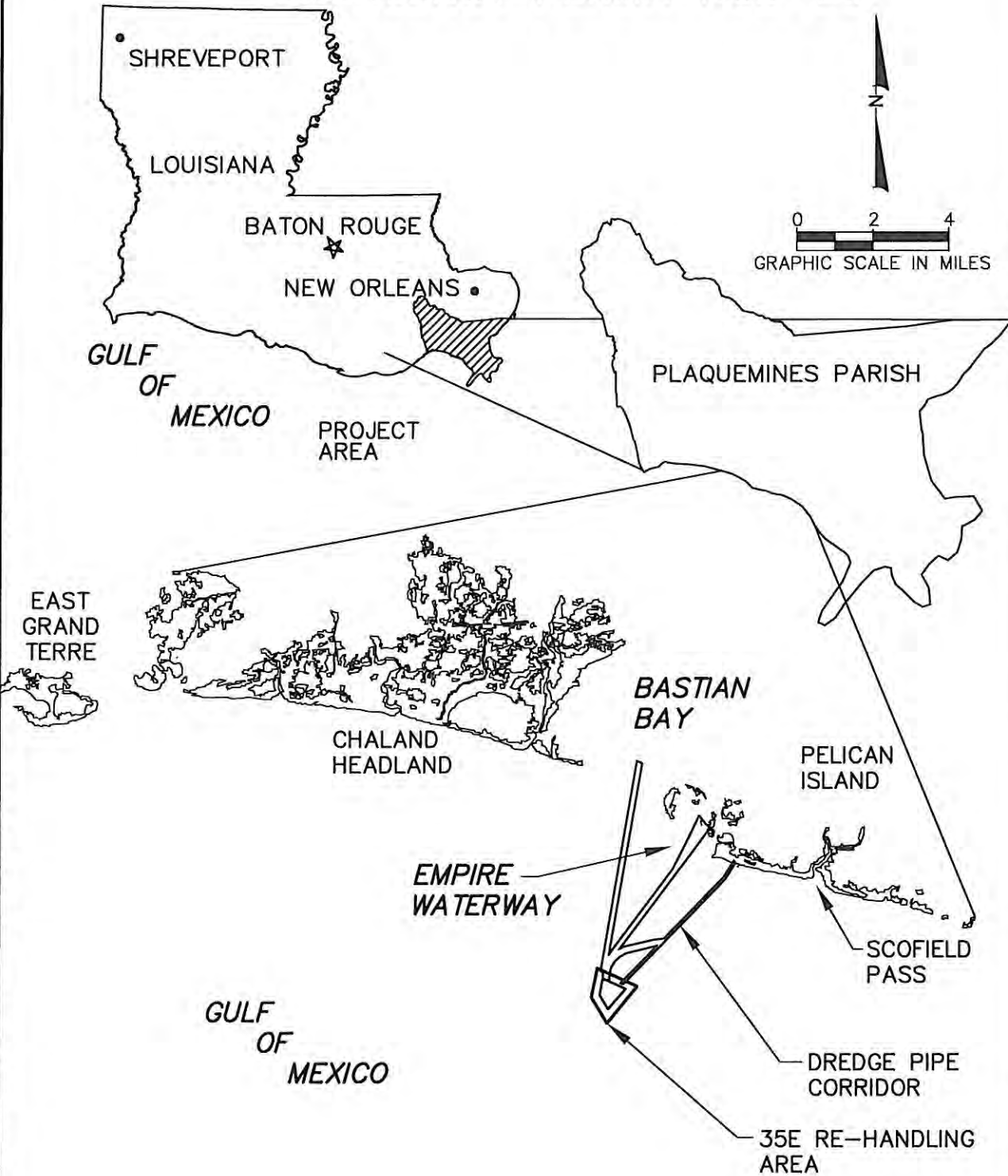
**NOTES:**

1. CORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE SUFFICIENTLY CLOSE TO CONTAIN SIMILAR MATERIAL.
2. SEE SHEET 2 FOR LOCATION OF CROSS SECTION LINES.
3. MAXIMUM DEPTH OF EQUIPMENT IS 2 FEET BELOW CUT ELEVATION.
4. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88).
3. MEAN HIGH WATER = 1.5 FT NAVD88.
4. MEAN LOW WATER = -0.3 FT NAVD88.



APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	PASS A LOUTRE EMERGENCY PERMIT AREA A	CROSS SECTIONS B-B' & C-C'
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 9/29/10
		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
		SHEET 4 OF 4	

# REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20



LOCATION MAP

DATE: 9/17/10

SHEET 1 OF 5

REACH W9 (PELICAN ISLAND)  
EMERGENCY PERMIT NOD-20  
35E RE-HANDLING AREA

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

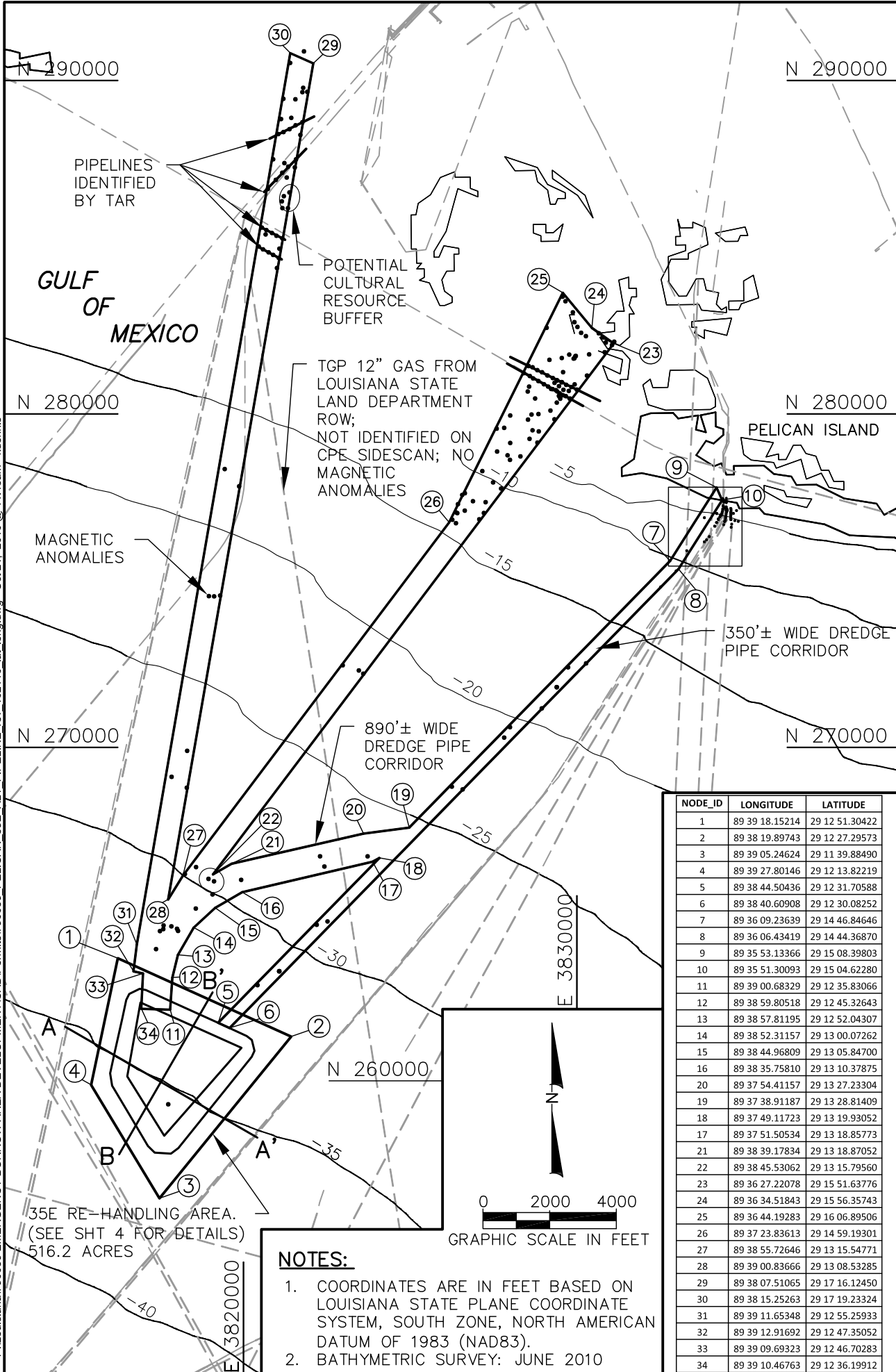
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:

## SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PROJECT PLAN VIEW
3	EXPOSED PIPE PLAN VIEW DETAIL
4	W8 PROPOSED ALIGNMENT PLAN VIEW DEAIL
5	DISPOSAL AREA CROSS SECTIONS

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 PELICAN\_35E\_ALT\_PIPELINE\_rev\_102110.lat\_long.dwg - Oct 21, 2010 @ 11:48am - kdennis



35E RE-HANDLING AREA.  
(SEE SHT 4 FOR DETAILS)  
516.2 ACRES

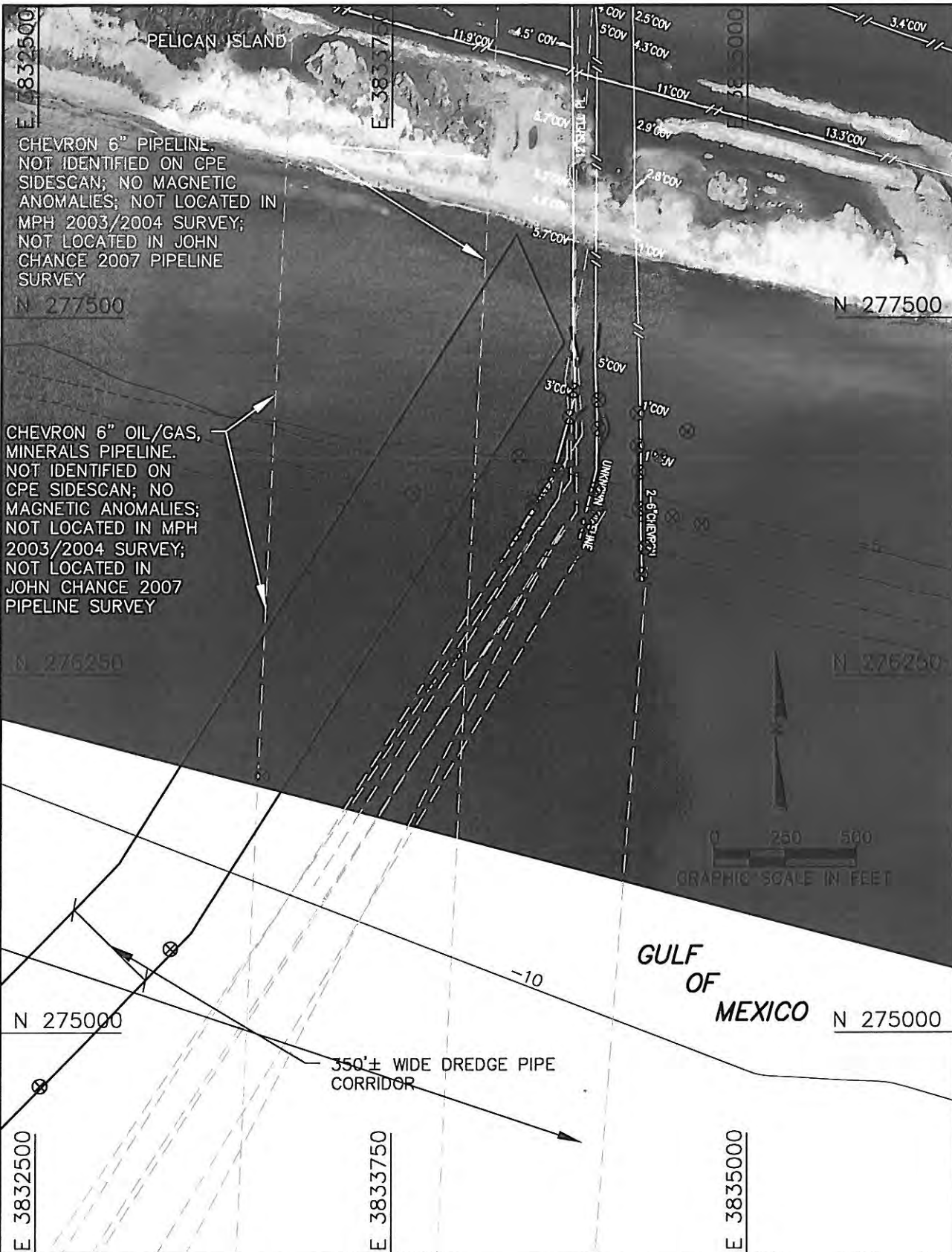
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. BATHYMETRIC SURVEY: JUNE 2010

NODE_ID	LONGITUDE	LATITUDE
1	89 39 18.15214	29 12 51.30422
2	89 38 19.89743	29 12 27.29573
3	89 39 05.24624	29 11 39.88490
4	89 39 27.80146	29 12 13.82219
5	89 38 44.50436	29 12 31.70588
6	89 38 40.60908	29 12 30.08252
7	89 36 09.23639	29 14 46.84646
8	89 36 06.43419	29 14 44.36870
9	89 35 53.13366	29 15 08.39803
10	89 35 51.30093	29 15 04.62280
11	89 39 00.68329	29 12 35.83066
12	89 38 59.80518	29 12 45.32643
13	89 38 57.81195	29 12 52.04307
14	89 38 52.31157	29 13 00.07262
15	89 38 44.96809	29 13 05.84700
16	89 38 35.75810	29 13 10.37875
20	89 37 54.41157	29 13 27.23304
19	89 37 38.91187	29 13 28.81409
18	89 37 49.11723	29 13 19.93052
17	89 37 51.50534	29 13 18.85773
21	89 38 39.17834	29 13 18.87052
22	89 38 45.53062	29 13 15.79560
23	89 36 27.22078	29 15 51.63776
24	89 36 34.51843	29 15 56.35743
25	89 36 44.19283	29 16 06.89506
26	89 37 23.83613	29 14 59.19301
27	89 38 55.72646	29 13 15.54771
28	89 39 00.83666	29 13 08.53285
29	89 38 07.51065	29 17 16.12450
30	89 38 15.25263	29 17 19.23324
31	89 39 11.65348	29 12 55.25933
32	89 39 12.91692	29 12 47.35052
33	89 39 09.69323	29 12 46.70283
34	89 39 10.46763	29 12 36.19912

<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>REACH W9 (PELICAN ISLAND)</b> <b>EMERGENCY PERMIT NOD-20</b> <b>35E RE-HANDLING AREA</b>	<b>PLAN VIEW MAP</b> <b>BATHYMETRY IN FT., NAVD88</b>
DESIGNED BY:	APPROVED BY:	DATE: 9/17/10 SHEET 2 OF 5
DRAWN BY:	FEDERAL PROJECT NUMBER:	STATE PROJECT NUMBER:

P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036 PELICAN\_35E\_ALT\_PIPELINE\_rev\_100110.dwg - Oct.01, 2010 @ 3:23pm - hvollmer



CHEVRON 6" PIPELINE.  
NOT IDENTIFIED ON CPE  
SIDESCAN; NO MAGNETIC  
ANOMALIES; NOT LOCATED IN  
MPH 2003/2004 SURVEY;  
NOT LOCATED IN JOHN  
CHANCE 2007 PIPELINE  
SURVEY

CHEVRON 6" OIL/GAS,  
MINERALS PIPELINE.  
NOT IDENTIFIED ON  
CPE SIDESCAN; NO  
MAGNETIC ANOMALIES;  
NOT LOCATED IN MPH  
2003/2004 SURVEY;  
NOT LOCATED IN  
JOHN CHANCE 2007  
PIPELINE SURVEY

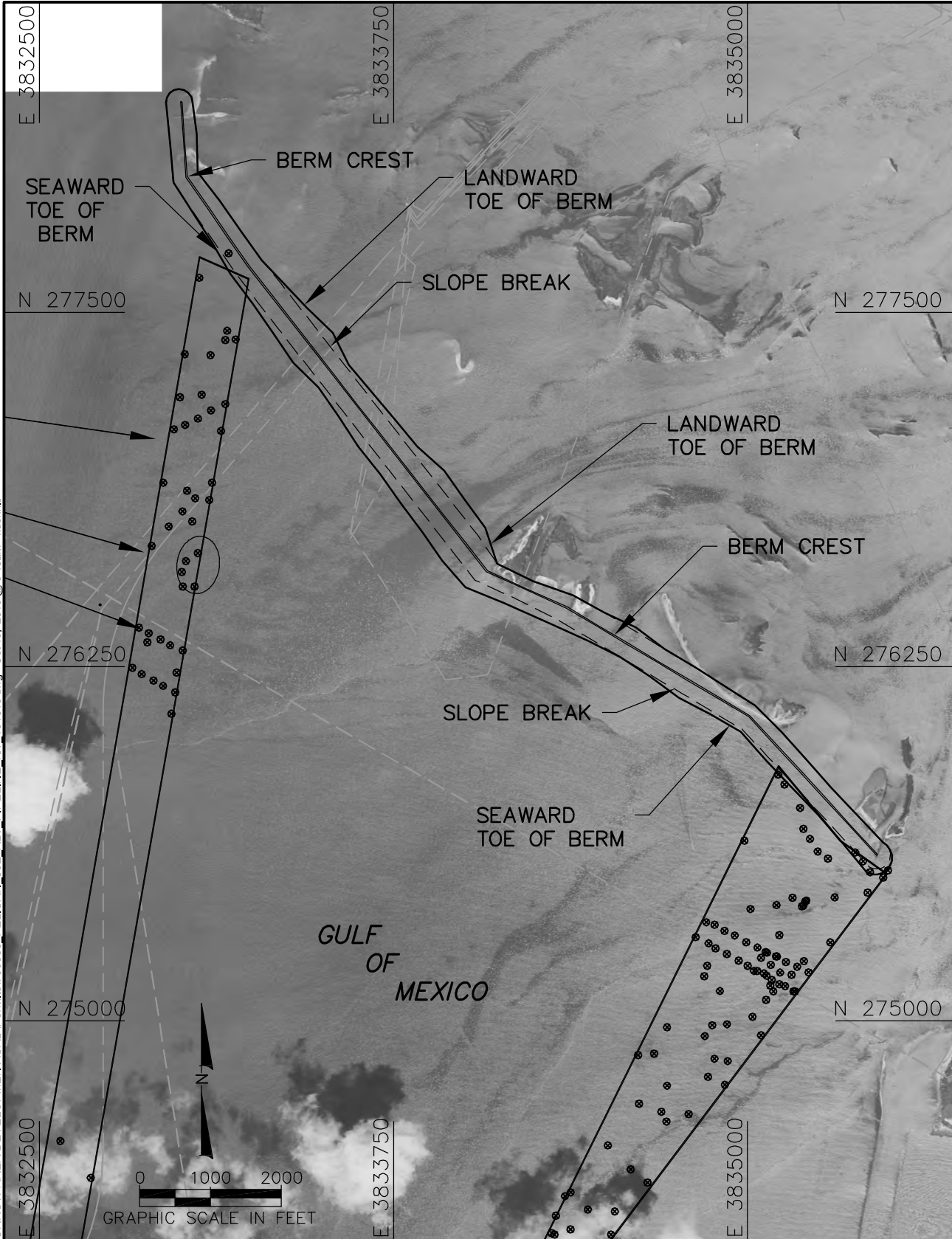
- ⊗ MAGNETIC ANOMALY FROM MAY 31-JUNE 1, 2010 CPE SURVEY.
- JOHN CHANCE MAGNETOMETER SURVEY TRACKLINE FROM SEPT. 2007 SURVEY.
- ====//==== PIPELINE LOCATION PER MORRIS P. HERBERT PIPELINE SURVEY CONDUCTED 11/2003 - 1/2004.
- PIPELINE LOCATION PER LA OCM DATABASE
- CPE TRACKLINE LOCATION FROM MAY 31-JUNE 1, 2010 SURVEY.
- EXPOSED PIPELINE

AERIAL PHOTOGRAPHY  
DATED SEPTEMBER  
17, 2007.

COORDINATES ARE IN FEET BASED  
ON LOUISIANA STATE PLANE  
COORDINATE SYSTEM, SOUTH ZONE,  
NORTH AMERICAN DATUM OF 1983  
(NAD83).

<p><b>EXPOSED PIPE PLAN VIEW DETAIL BATHYMETRY IN FT, NAVD88</b></p>	<p>DATE: 6/26/10 SHEET 3 OF 5</p>
<p><b>REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20 35E RE-HANDLING AREA</b></p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p><b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: APPROVED BY:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DRAWN BY:</p>

P:\Louisiana\790038 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790038 PELICAN\_35E\_ALT\_PIPELINE\_rev\_101810.dwg - Oct 19, 2010 @ 8:43am - lcdennis



- ⊗ MAGNETIC ANOMALY FROM MAY 31-JUNE 1, 2010 CPE SURVEY.
- PIPELINE LOCATION PER LA OCM DATABASE
- PROPOSED PIPELINE ALIGNMENT

AERIAL PHOTOGRAPHY DATED 2009.

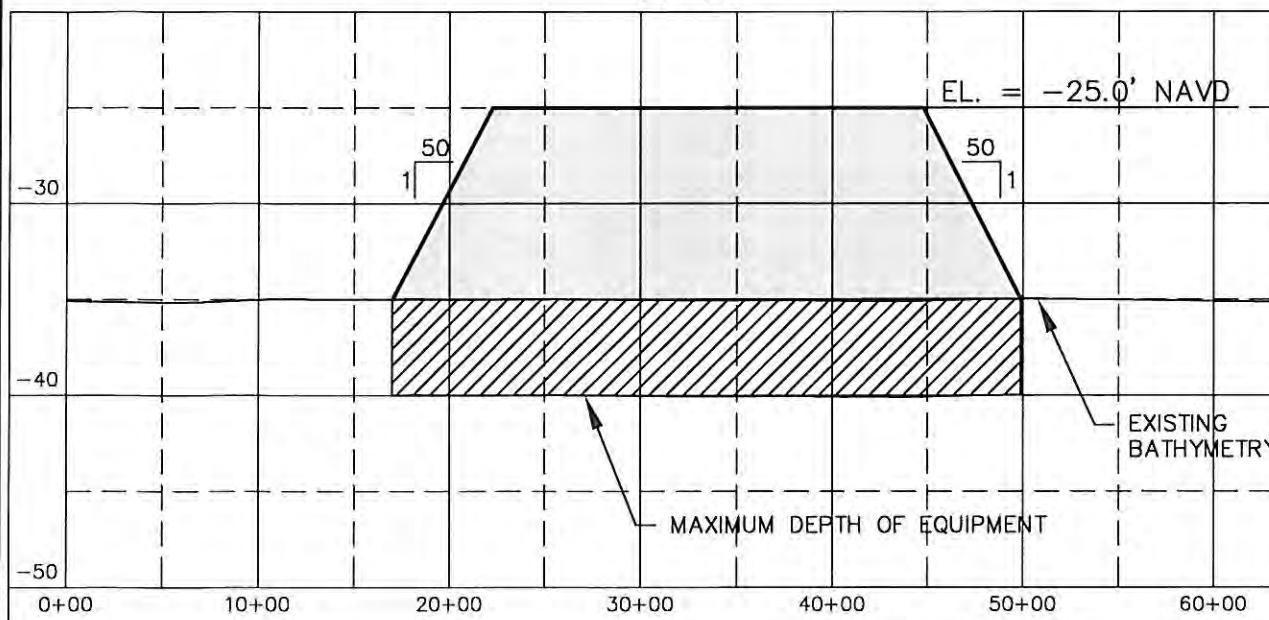
COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).

<p><b>W8 PROPOSED ALIGNMENT PLAN VIEW DETAIL BATHYMETRY IN FT, NAVD88</b></p>	<p>DATE: 6/26/10 SHEET 4 OF 5</p>
<p><b>REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20 35E RE-HANDLING AREA</b></p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p><b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: APPROVED BY:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DRAWN BY:</p>

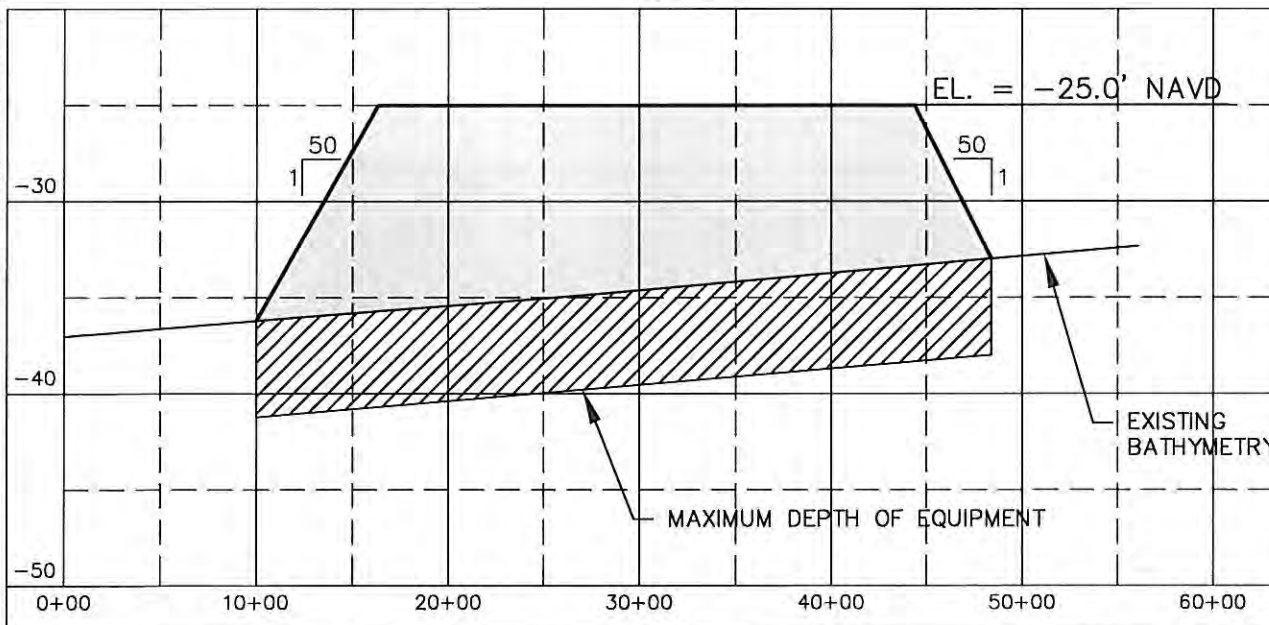



P:\Louisiana\790036 EMERGENCY BORROW AREA DEVELOPMENT\CAD\Permits\790036\_PELICAN\_35E\_ALT\_PIPELINE\_rev\_100110.dwg - Oct.01. 2010 @ 3:23pm - hvclimer

### A-A'



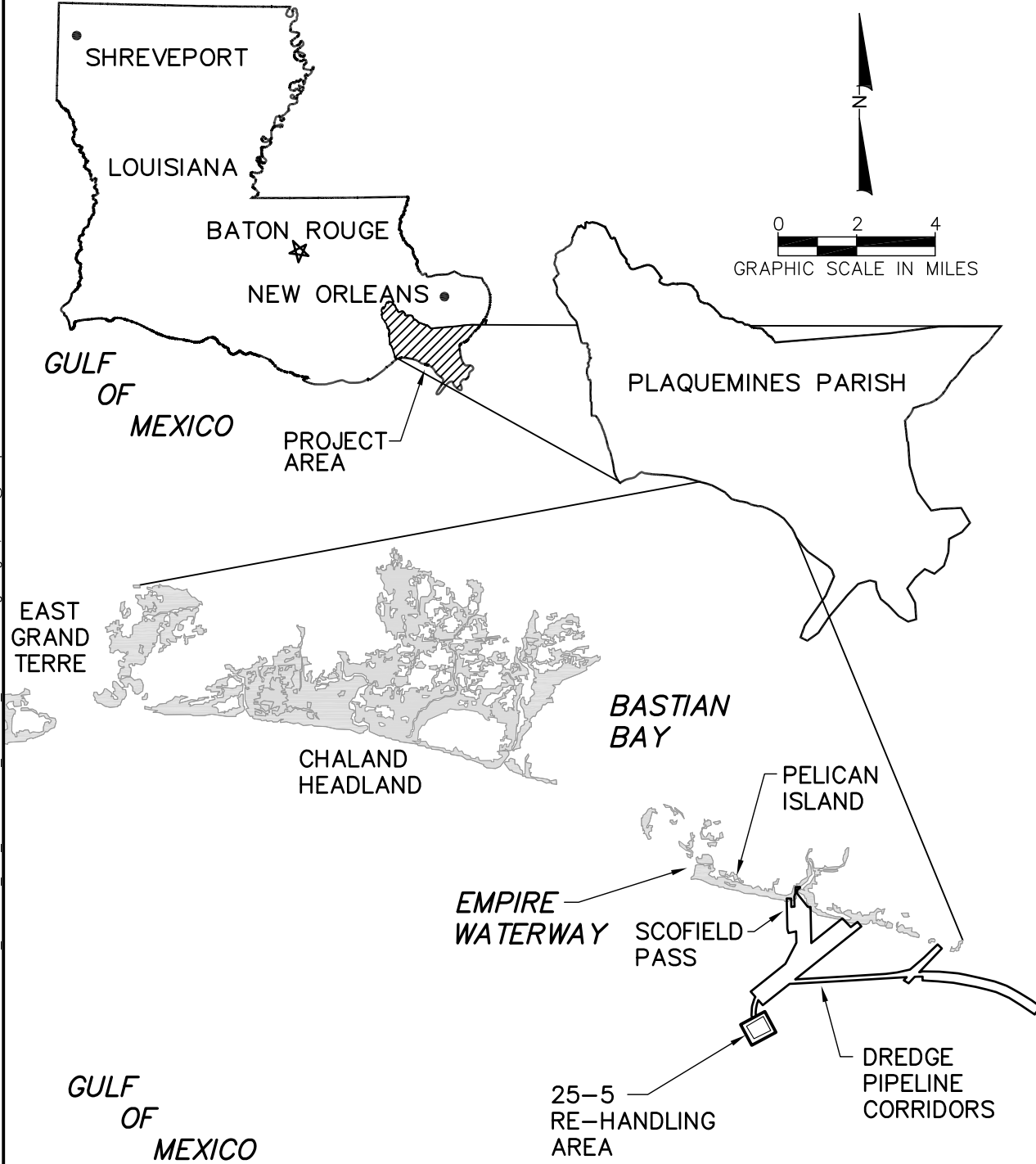
### B-B'



 MAXIMUM DEPTH OF EQUIPMENT (MDE)  
ELEVATIONS REFERENCED TO FT, NAVD88

<p><b>CROSS SECTIONS</b></p>	<p>DATE: 6/26/10</p>	<p>SHEET 5 OF 5</p>
<p><b>REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20 35E RE-HANDLING AREA</b></p>	<p>STATE PROJECT NUMBER:</p>	<p>FEDERAL PROJECT NUMBER:</p>
<p><b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY:</p>	<p>APPROVED BY:</p>
<p><b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DRAWN BY:</p>	

# REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20



LOCATION MAP

REACH W9 (PELICAN ISLAND)  
EMERGENCY PERMIT NOD-20  
25-5 RE-HANDLING AREA

DATE: 8/25/10

SHEET 1 OF 3

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

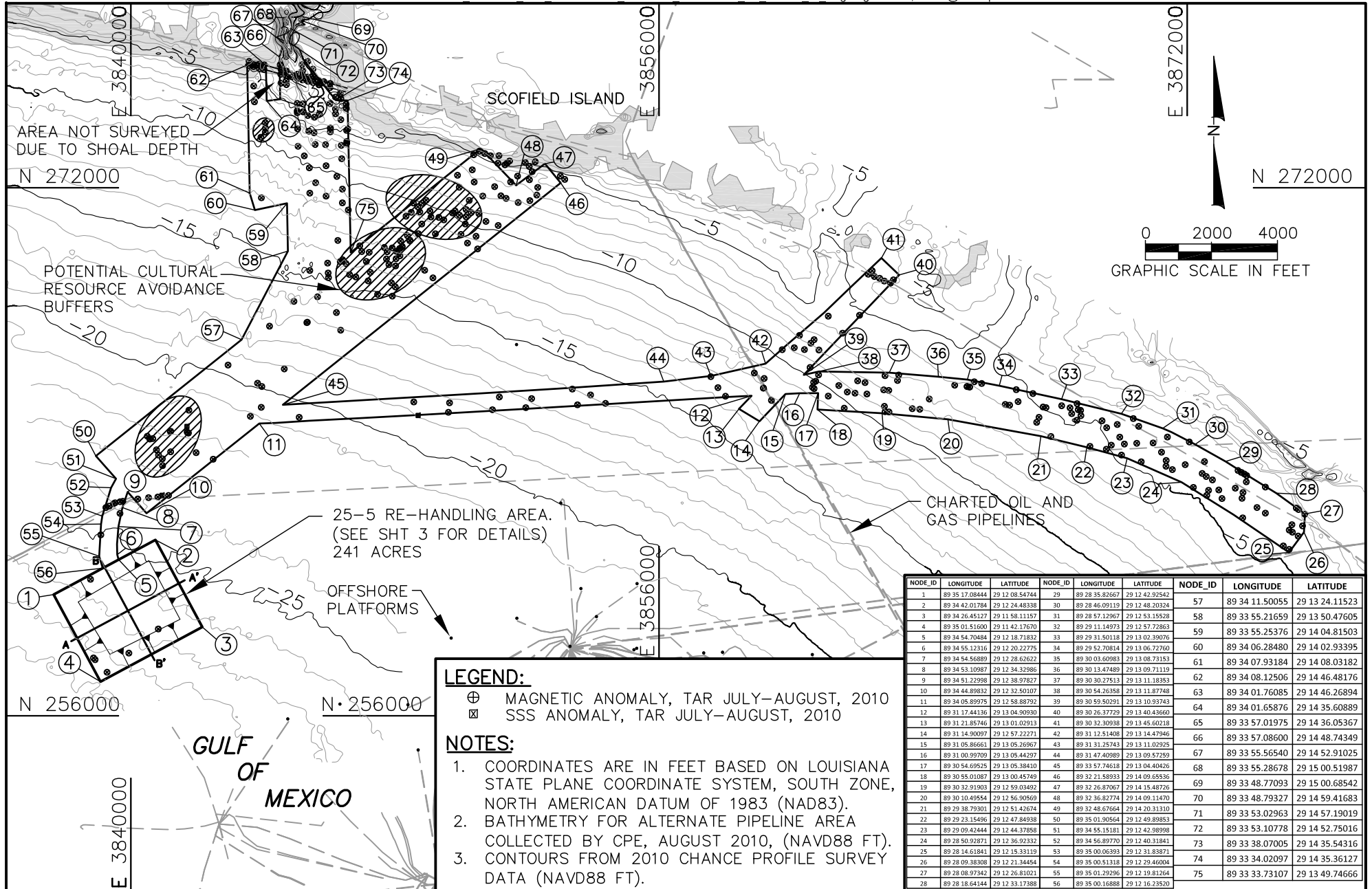
APPLICATION BY:

OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:

## SHEET INDEX

NO.	TITLE
1	LOCATION MAP
2	PROJECT PLAN VIEW
3	DISPOSAL AREA CROSS SECTIONS

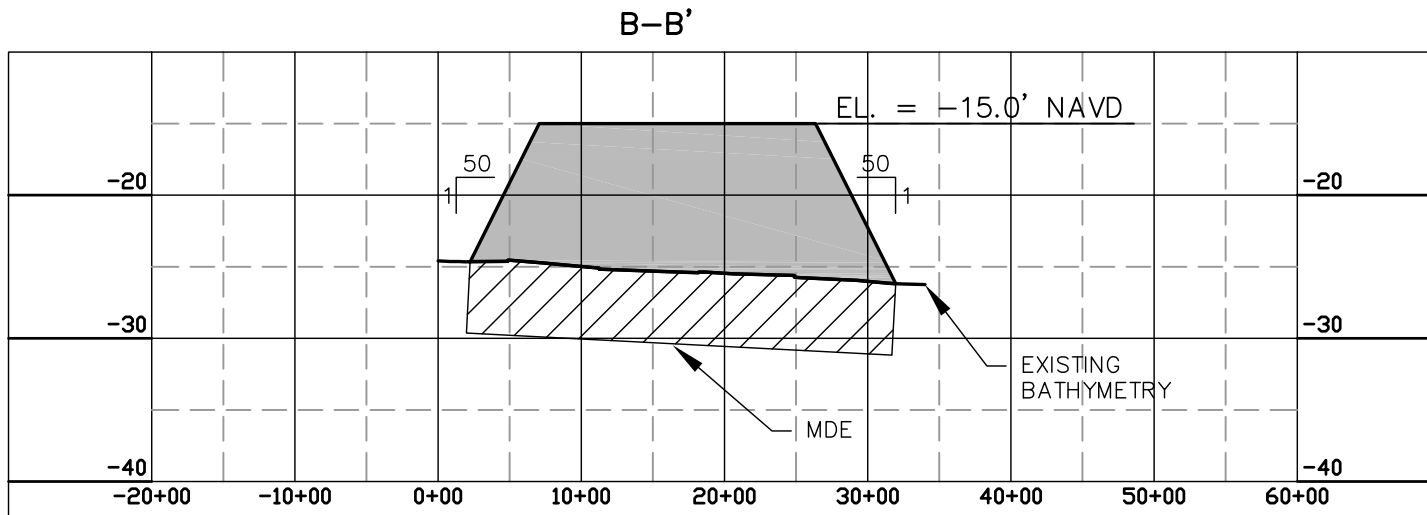
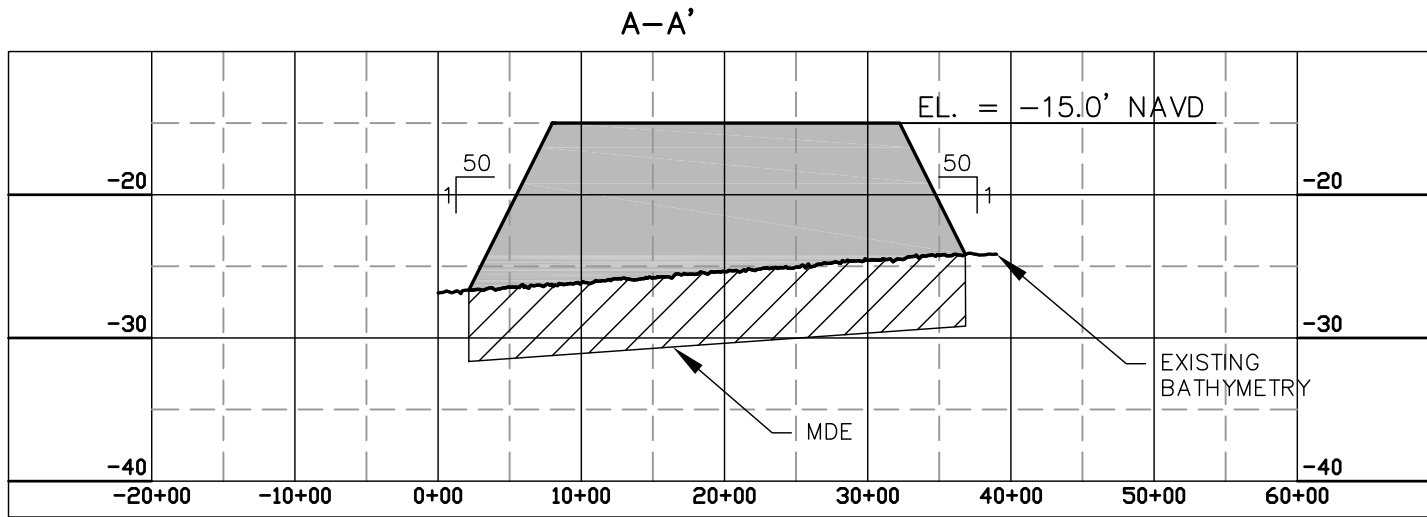


**LEGEND:**  
 ⊕ MAGNETIC ANOMALY, TAR JULY-AUGUST, 2010  
 ⊗ SSS ANOMALY, TAR JULY-AUGUST, 2010

**NOTES:**  
 1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).  
 2. BATHYMETRY FOR ALTERNATE PIPELINE AREA COLLECTED BY CPE, AUGUST 2010, (NAVD88 FT).  
 3. CONTOURS FROM 2010 CHANCE PROFILE SURVEY DATA (NAVD88 FT).

NODE_ID	LONGITUDE	LATITUDE	NODE_ID	LONGITUDE	LATITUDE	NODE_ID	LONGITUDE	LATITUDE
1	89 35 17.08444	29 12 08.54744	29	89 28 35.82667	29 12 42.92542	57	89 34 11.50055	29 13 24.11523
2	89 34 42.01784	29 12 24.48338	30	89 28 46.09119	29 12 48.20324	58	89 33 55.21659	29 13 50.47605
3	89 34 26.45127	29 11 58.11157	31	89 28 57.12967	29 12 53.15528	59	89 33 55.25376	29 14 04.81503
4	89 35 01.51600	29 11 42.17670	32	89 29 11.14973	29 12 57.72863	60	89 34 06.28480	29 14 02.93395
5	89 34 54.70484	29 12 18.71832	33	89 29 31.50118	29 13 02.39076	61	89 34 07.93184	29 14 08.03182
6	89 34 55.12316	29 12 20.22775	34	89 29 52.70814	29 13 06.72760	62	89 34 08.12506	29 14 46.48176
7	89 34 54.56889	29 12 28.62622	35	89 30 03.60983	29 13 08.73153	63	89 34 01.76085	29 14 46.26894
8	89 34 53.10987	29 12 34.32986	36	89 30 13.47489	29 13 09.71119	64	89 33 57.01975	29 14 36.05367
9	89 34 51.22998	29 12 38.97827	37	89 30 30.27513	29 13 11.18383	65	89 33 57.08600	29 14 48.74349
10	89 34 44.89832	29 12 32.50107	38	89 30 54.26358	29 13 11.87748	66	89 33 55.56540	29 14 52.91025
11	89 34 05.89975	29 12 58.88792	39	89 30 59.50291	29 13 10.93743	67	89 33 55.28678	29 15 00.51987
12	89 31 17.44136	29 13 04.90930	40	89 30 26.37729	29 13 40.43660	68	89 33 48.77093	29 15 00.68542
13	89 31 21.85746	29 13 01.02913	41	89 30 32.30938	29 13 45.60218	69	89 33 48.79327	29 14 59.41683
14	89 31 14.90097	29 12 57.22271	42	89 31 12.51408	29 13 14.47946	70	89 33 53.02963	29 14 57.19019
15	89 31 05.86661	29 13 05.26967	43	89 31 31.25743	29 13 11.02925	71	89 33 53.10778	29 14 52.75016
16	89 31 00.99709	29 13 05.44297	44	89 31 47.40989	29 13 09.57299	72	89 33 38.07005	29 14 35.54316
17	89 30 54.69525	29 13 05.38410	45	89 33 57.74618	29 13 04.40426	73	89 33 34.02097	29 14 35.36127
18	89 30 55.01087	29 13 00.45749	46	89 32 21.58953	29 14 09.65536	74	89 35 01.29296	29 12 19.81264
19	89 30 52.91903	29 12 59.03492	47	89 32 26.87067	29 14 15.48726	75	89 35 00.16888	29 12 16.23520
20	89 30 10.49554	29 12 56.90669	48	89 32 36.82774	29 14 09.11470			
21	89 29 38.79391	29 12 51.42674	49	89 32 46.87664	29 14 20.31310			
22	89 29 23.15496	29 12 47.84038	50	89 35 01.90564	29 12 49.89853			
23	89 29 09.42444	29 12 44.37968	51	89 34 55.15181	29 12 42.99998			
24	89 28 50.92871	29 12 36.92322	52	89 34 56.89770	29 12 40.31841			
25	89 28 14.61841	29 12 15.33119	53	89 35 00.06393	29 12 33.83871			
26	89 28 09.38308	29 12 21.34454	54	89 35 00.51318	29 12 29.46004			
27	89 28 08.97342	29 12 16.81021	55	89 35 01.29296	29 12 19.81264			
28	89 28 18.64144	29 12 33.17388	56	89 35 00.16888	29 12 16.23520			

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	REACH W9 (PELICAN ISLAND) EMERGENCY PERMIT NOD-20 25-5 RE-HANDLING AREA	PLAN VIEW MAP BATHYMETRY IN FT, NAVD88
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER:	DATE: 8/25/10
	APPROVED BY:	FEDERAL PROJECT NUMBER:	SHEET 2 OF 3



MAXIMUM DEPTH OF EQUIPMENT (MDE)  
 ELEVATIONS REFERENCED TO FT, NAVD88

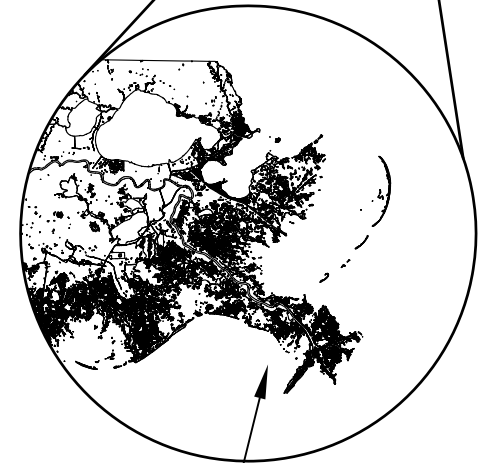
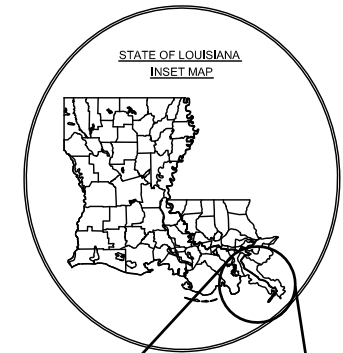
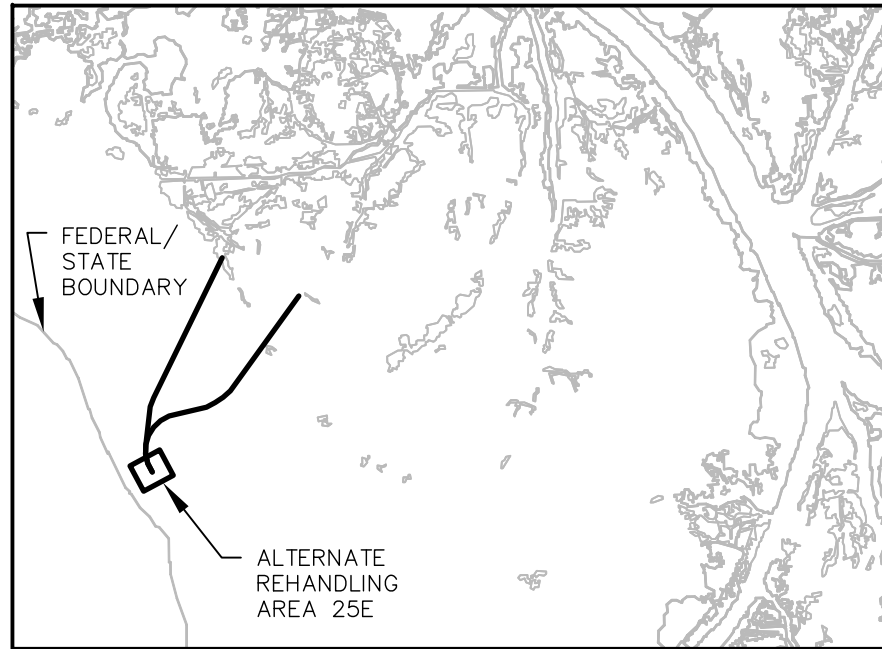
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION                  ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>REACH W9 (PELICAN ISLAND)                  EMERGENCY PERMIT NOD-20                  25-5 RE-HANDLING AREA</b>	<b>PROJECT CROSS SECTIONS</b>
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 7/27/10
		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
			SHEET 3 OF 3

STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH

**ALTERNATE REHANDLING AREA 25E**

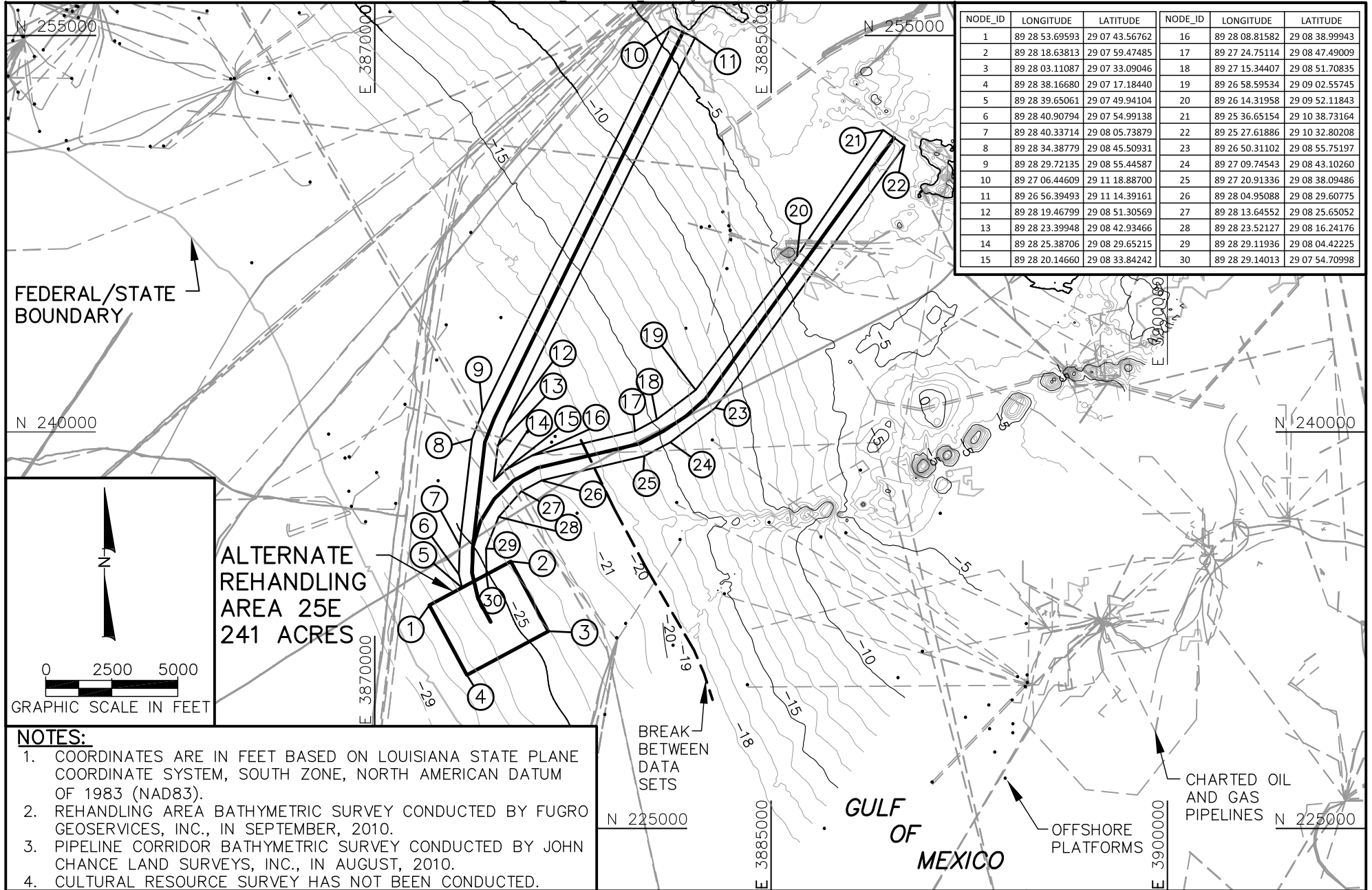
INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	PLAN VIEW



PROJECT LOCATION

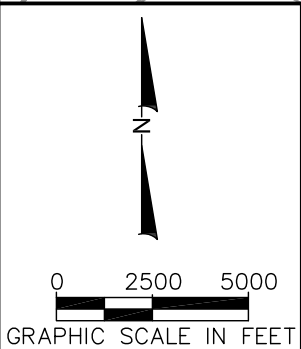
APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	ALTERNATE REHANDLING AREA 25E	TITLE SHEET
		STATE PROJECT NUMBER:	DATE: 10/11/10
DRAWN BY:	DESIGNED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER:
			SHEET 1 OF 2



FEDERAL/STATE  
BOUNDARY

N 240000

N 240000



ALTERNATE  
REHANDLING  
AREA 25E  
241 ACRES

BREAK  
BETWEEN  
DATA  
SETS

N 225000

GULF OF  
MEXICO

CHARTED OIL  
AND GAS  
PIPELINES

OFFSHORE  
PLATFORMS

N 225000

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. REHANDLING AREA BATHYMETRIC SURVEY CONDUCTED BY FUGRO GEOSERVICES, INC., IN SEPTEMBER, 2010.
3. PIPELINE CORRIDOR BATHYMETRIC SURVEY CONDUCTED BY JOHN CHANCE LAND SURVEYS, INC., IN AUGUST, 2010.
4. CULTURAL RESOURCE SURVEY HAS NOT BEEN CONDUCTED.

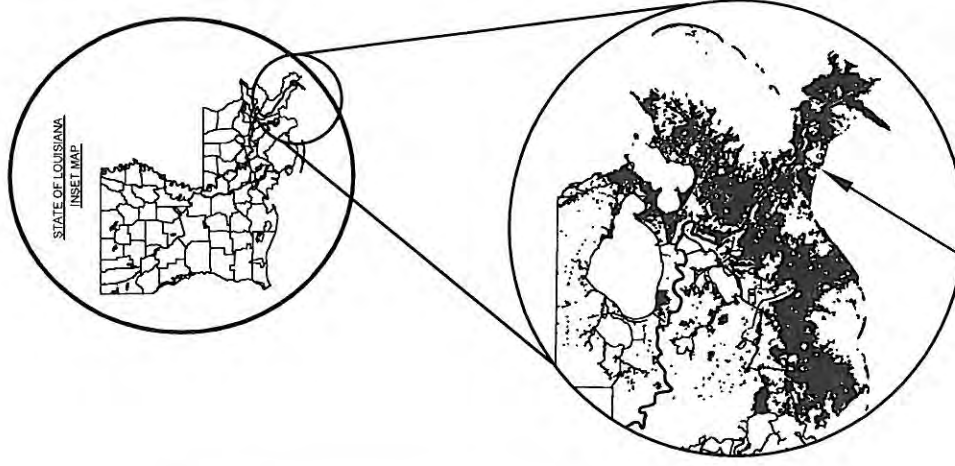
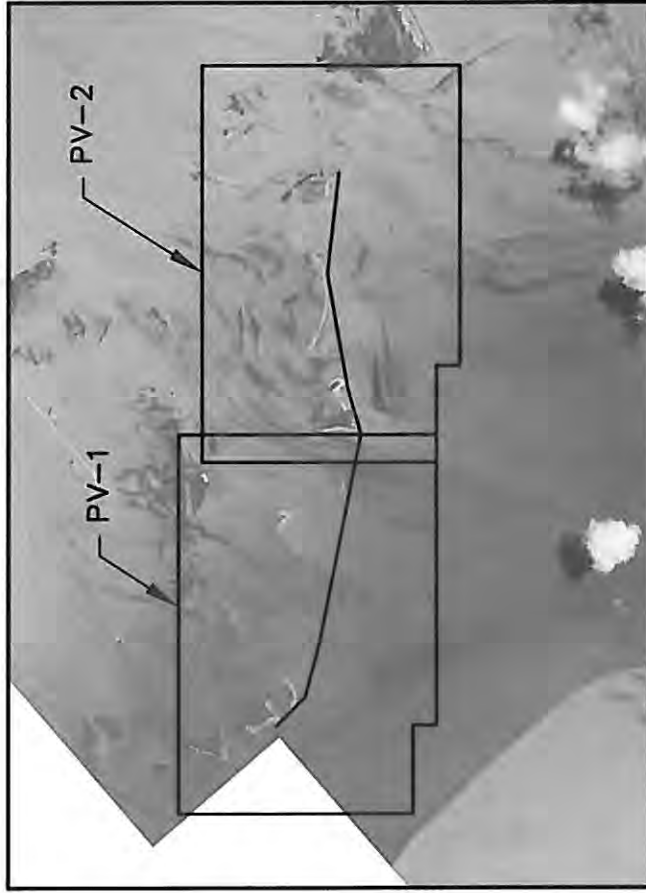
APPLICATION BY: OFFICE OF COASTAL PROTECTION AND RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	ALTERNATE REHANDLING AREA 25E	PLAN VIEW MAP BATHYMETRY IN FT, NAVD88
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:
		DATE: 10/11/10  SHEET 2 OF 2	

STATE OF LOUISIANA  
 OFFICE OF COASTAL PROTECTION AND RESTORATION  
 ENGINEERING BRANCH

SEGMENT W8  
 SHELL ISLAND

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	PLAN VIEWS
4-18	PROFILES



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W8 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 10/13/10 SHEET 1 OF 18
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	

TOTAL LENGTH = 14,940 FT  
 TOTAL AREA = 178.3 AC  
 TOTAL VOLUME = 1.3 MCY

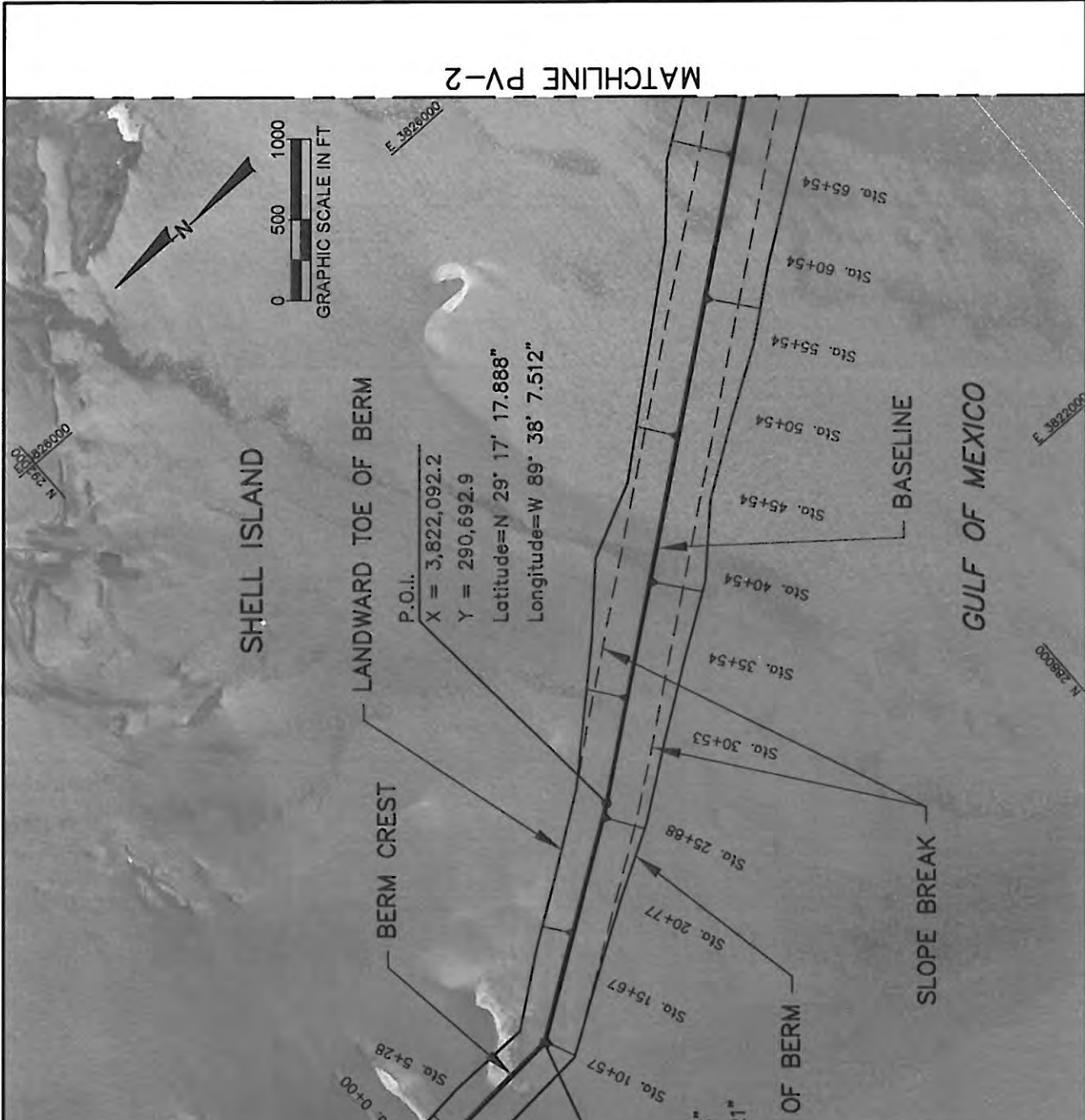
P.O.C.  
 X = 3,821,143.9  
 Y = 293,006.3  
 Latitude=N 29° 17' 40.927"  
 Longitude=W 89° 38' 17.832"

P.O.I.  
 X = 3,821,222.5  
 Y = 291,952.3  
 Latitude=N 29° 17' 30.482"  
 Longitude=W 89° 38' 17.121"

P.O.I.  
 X = 3,822,092.2  
 Y = 290,692.9  
 Latitude=N 29° 17' 17.888"  
 Longitude=W 89° 38' 7.512"

**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.



APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND DEFENSE

STATE PROJECT NUMBER:  
 FEDERAL PROJECT NUMBER:

SEGMENT W8  
 PLAN VIEW

DATE: 10/13/10  
 SHEET 2 OF 18

MATCHLINE PV-2



N 284000  
E 3834000

N 284000  
E 3834000

N 284000  
E 3834000

TOTAL LENGTH = 14,940 FT  
TOTAL AREA = 178.3 AC  
TOTAL VOLUME = 1.3 MCY

SHELL ISLAND

GULF OF MEXICO

LANDWARD TOE OF BERM

P.O.E.  
X = 3,830,958.1  
Y = 282,392.9  
Latitude=N 29° 15' 54.420"  
Longitude=W 89° 36' 28.814"

P.O.I.  
X = 3,829,162.6  
Y = 284,341.0  
Latitude=N 29° 16' 13.970"  
Longitude=W 89° 36' 48.753"

P.O.I.  
X = 3,826,581.0  
Y = 285,875.8  
Latitude=N 29° 16' 29.545"  
Longitude=W 89° 37' 17.639"

P.O.I.  
X = 3,825,460.0  
Y = 286,386.9  
Latitude=N 29° 16' 34.770"  
Longitude=W 89° 37' 30.209"

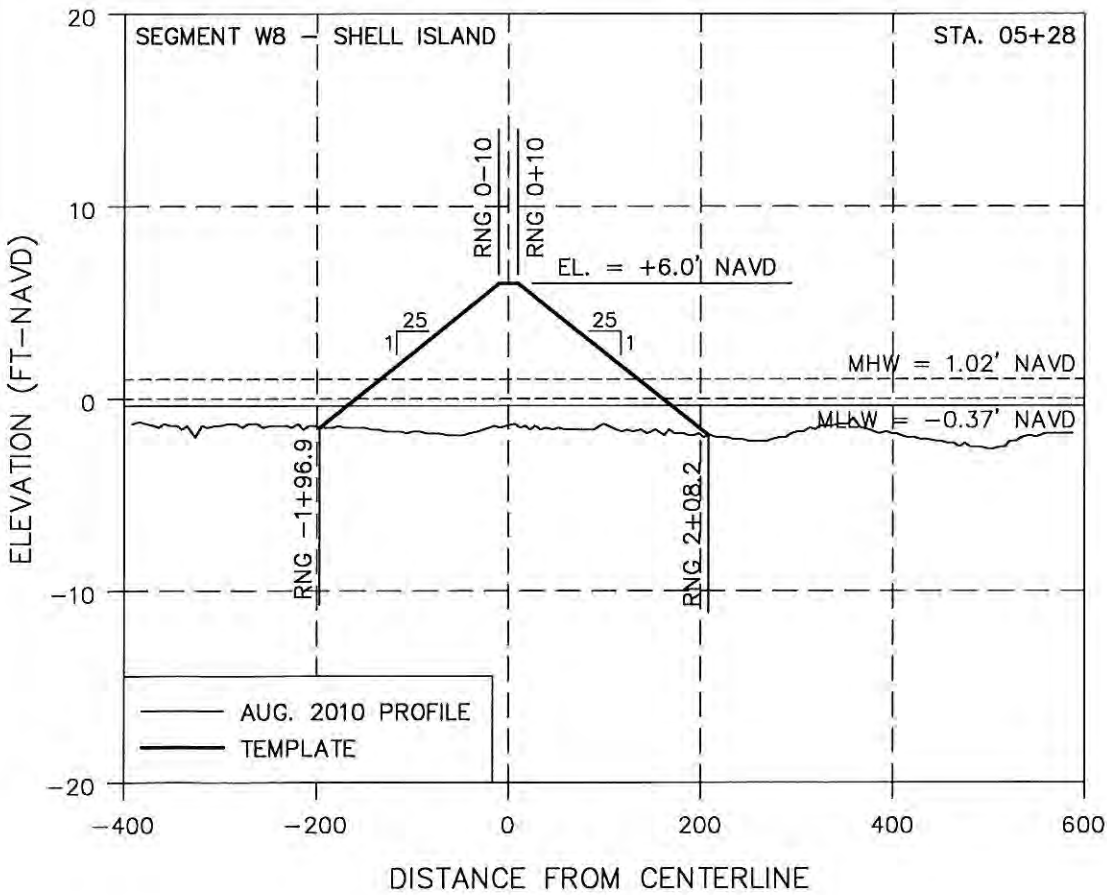
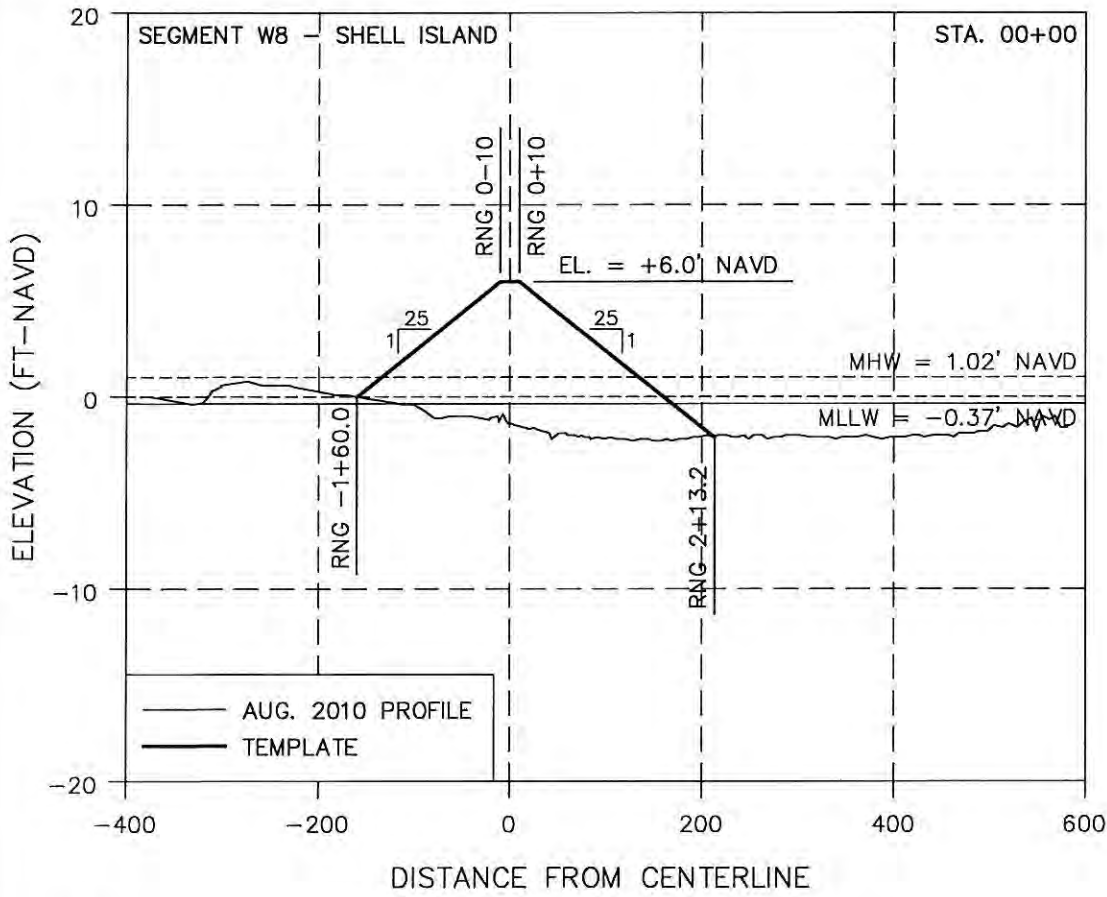
MATCHLINE PV-1



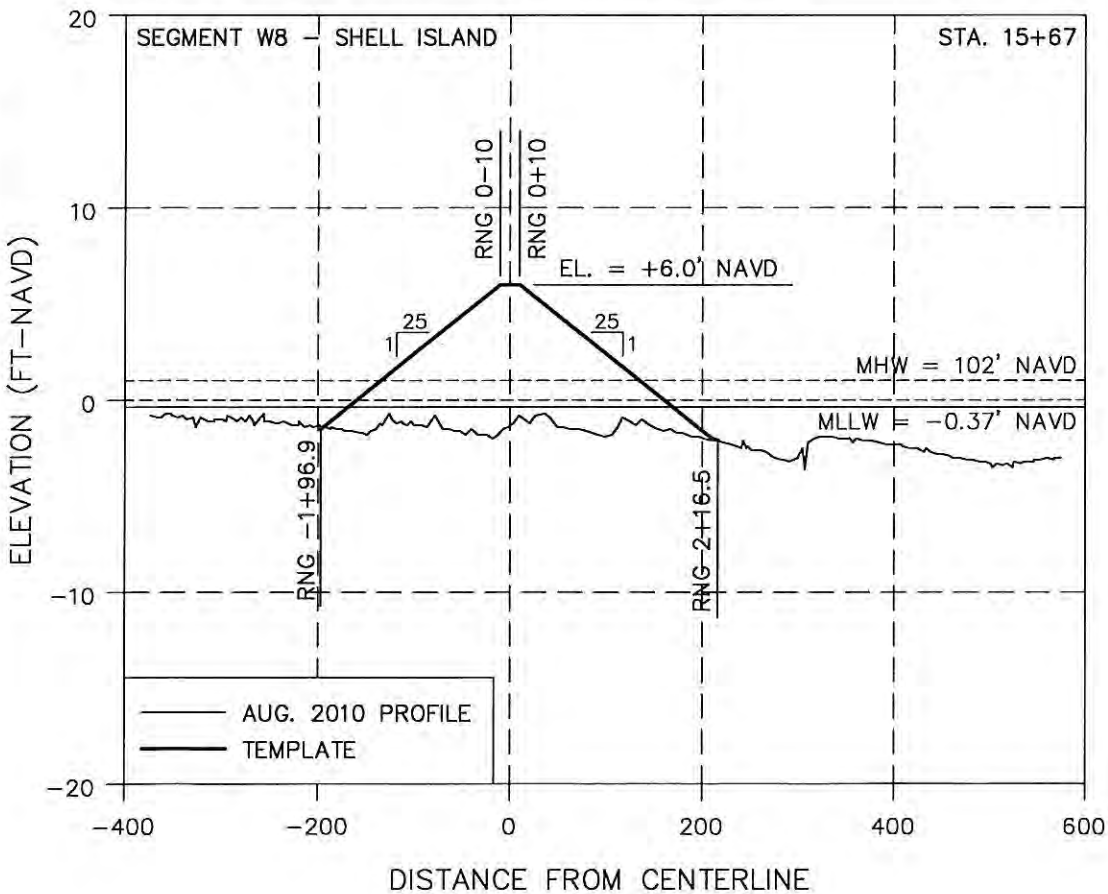
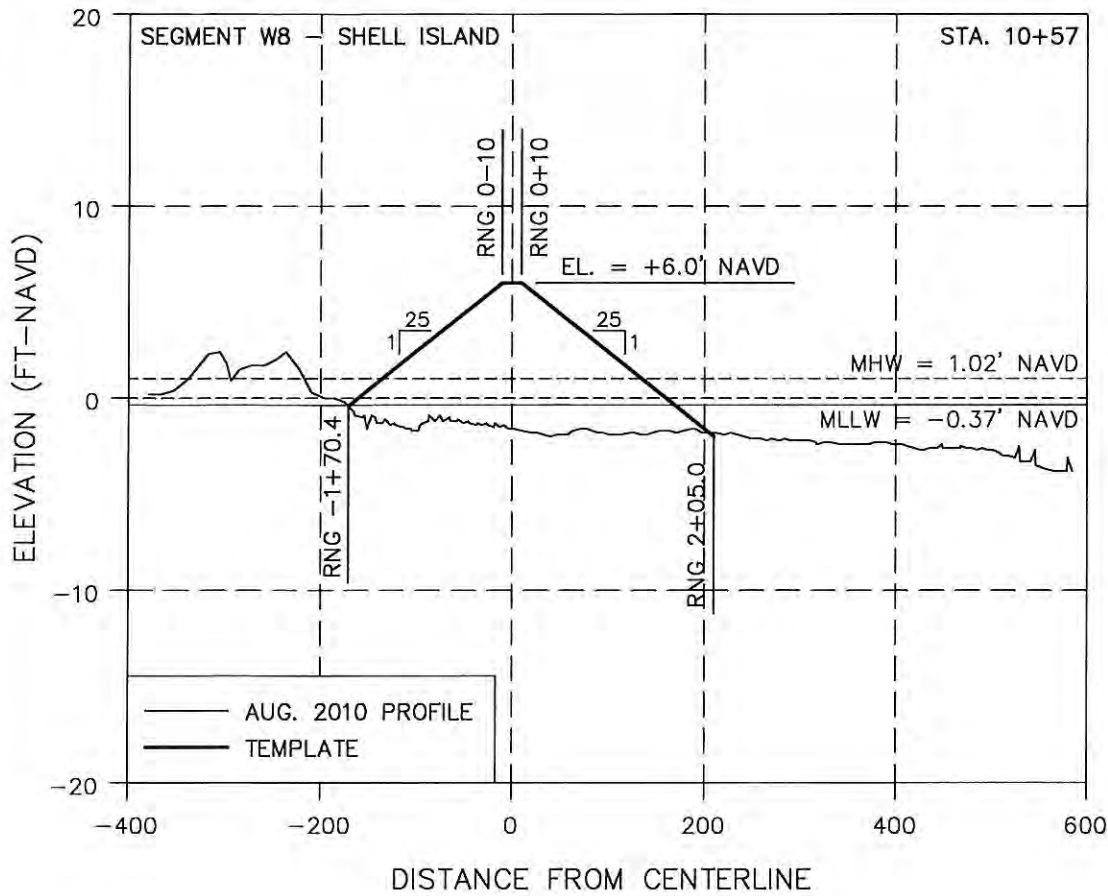
**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W8 PLAN VIEW
DRAWN BY:	DESIGNED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DATE: 10/13/10 SHEET 3 OF 18



SEGMENT W8 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 4 OF 18	FEDERAL PROJECT NUMBER:	APPROVED BY:	APPROVED BY:



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

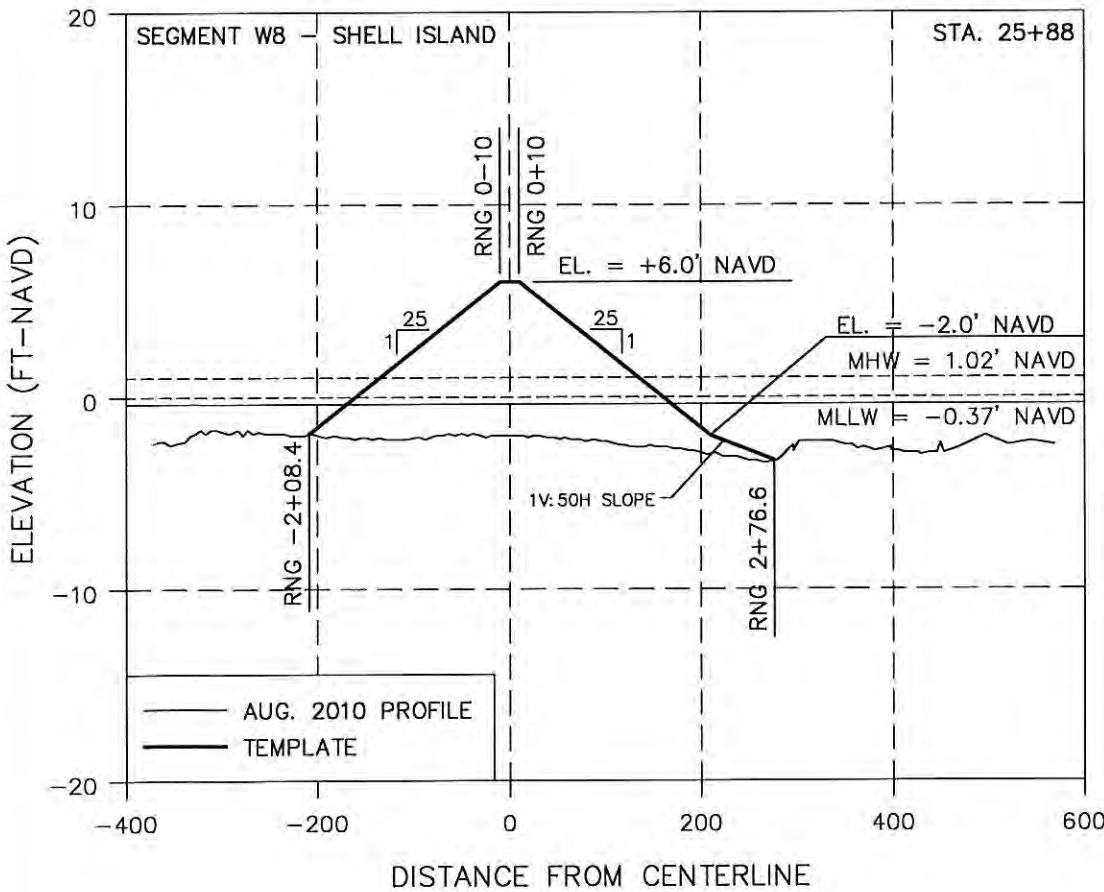
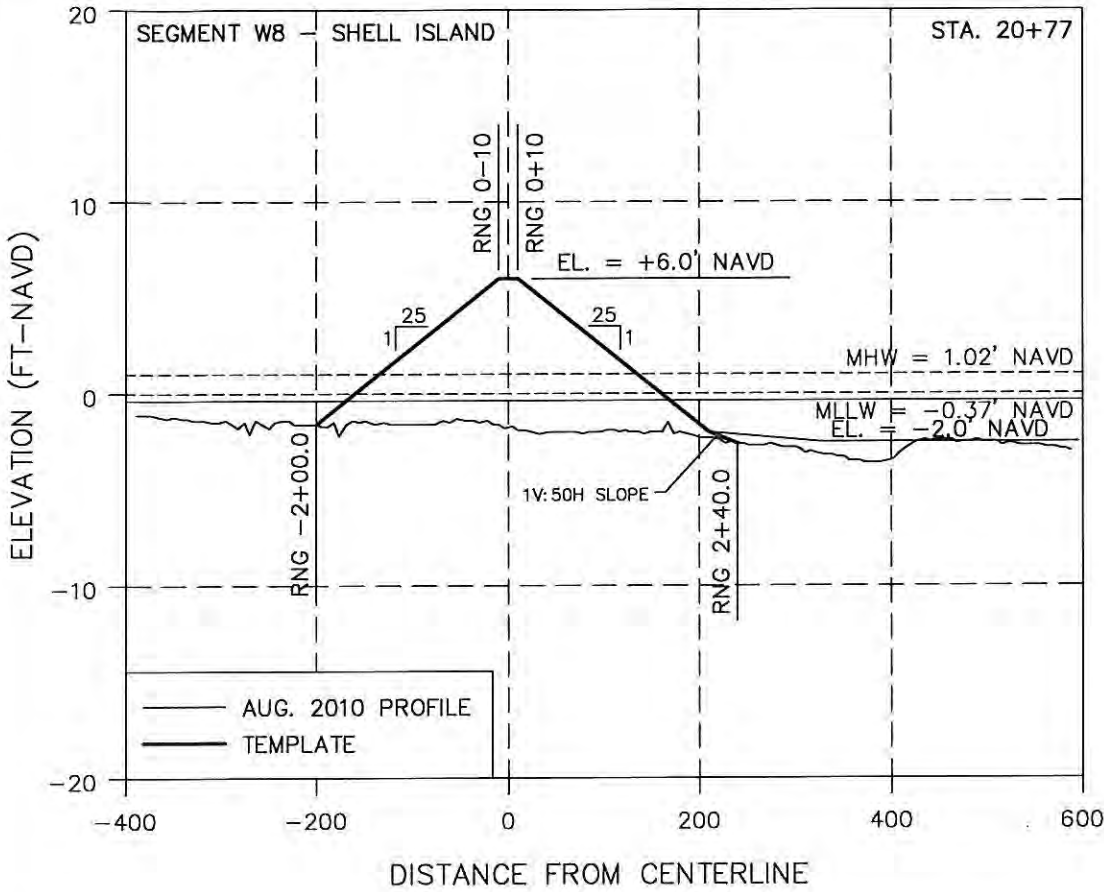
DESIGNED BY:

SHEET 5 OF 18

FEDERAL PROJECT NUMBER:

APPROVED BY:

DRAWN BY:



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 6 OF 18

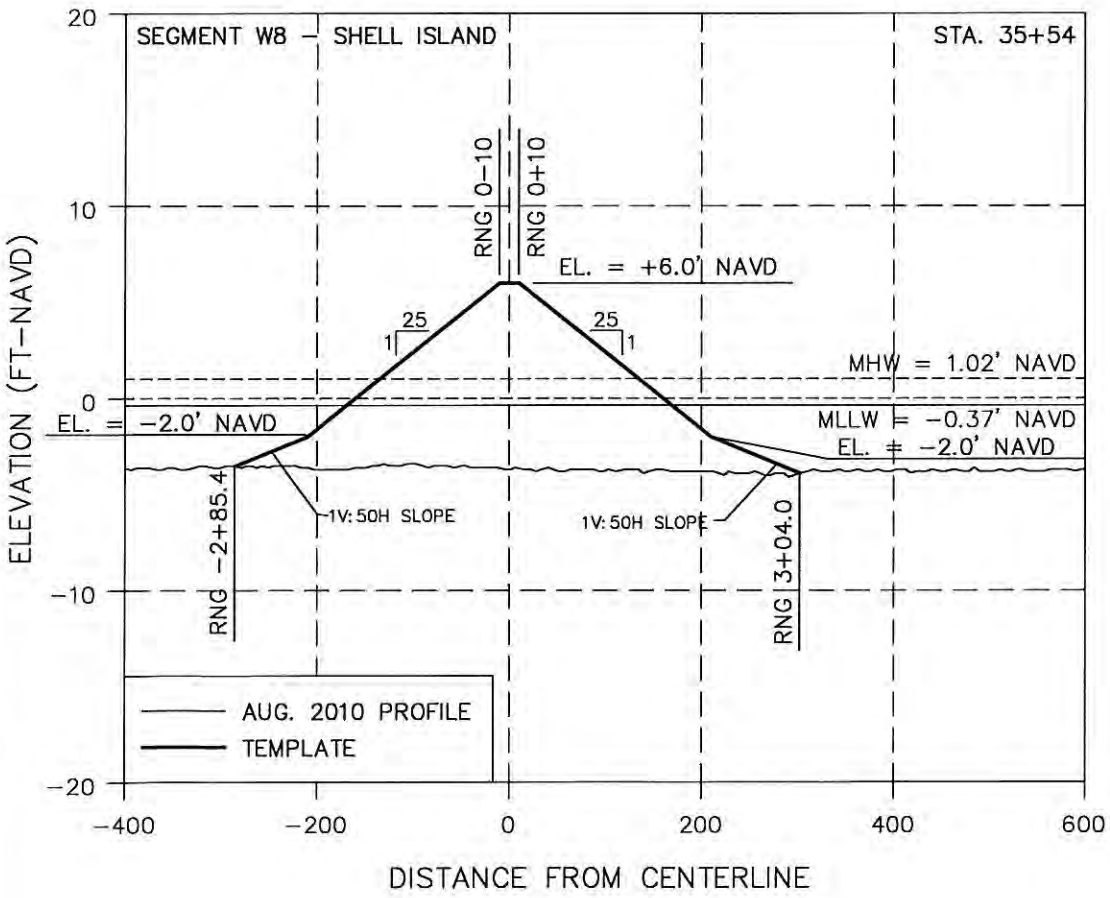
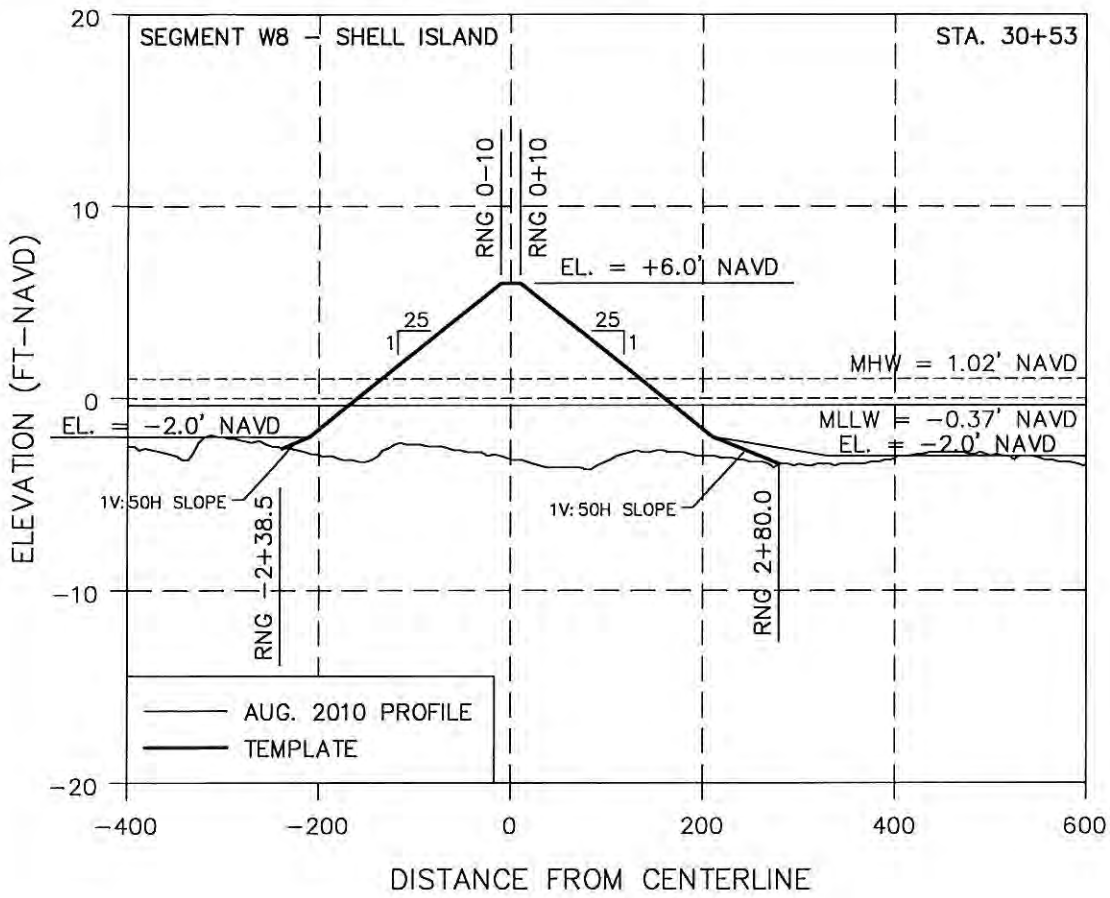
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FEDERAL PROJECT NUMBER:

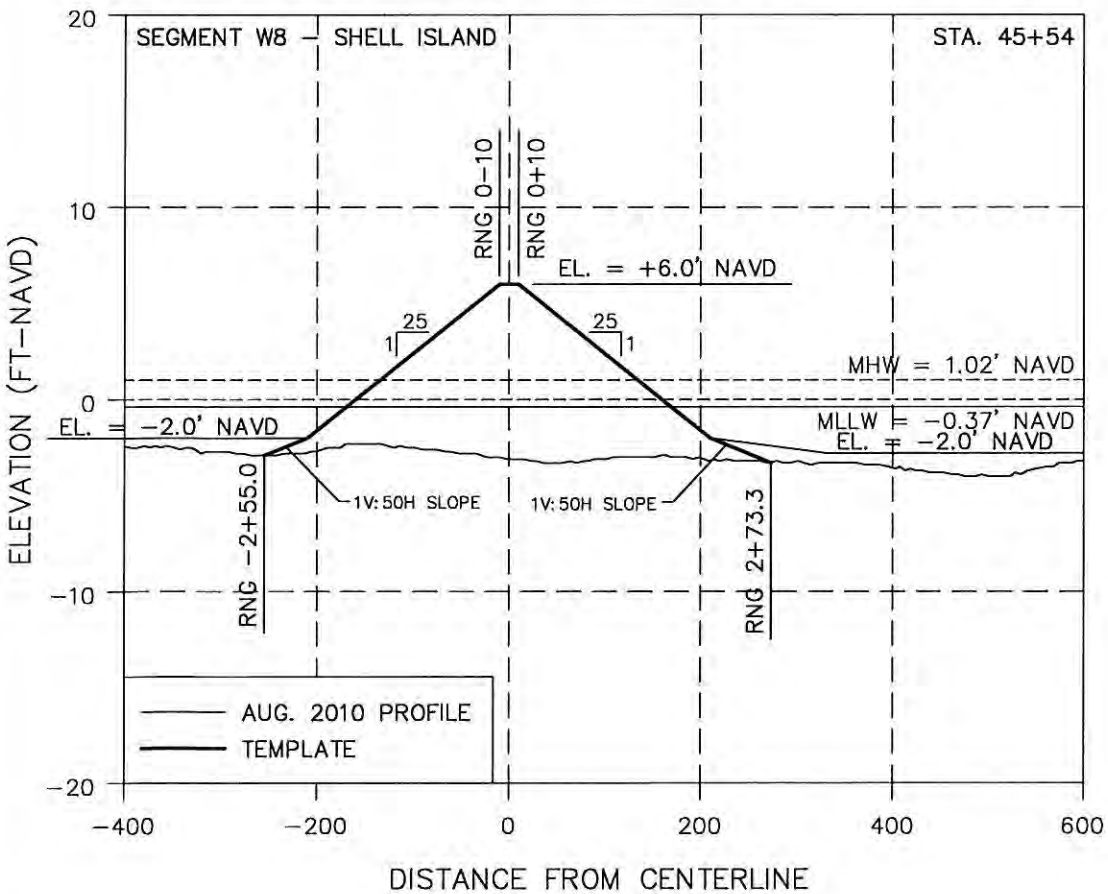
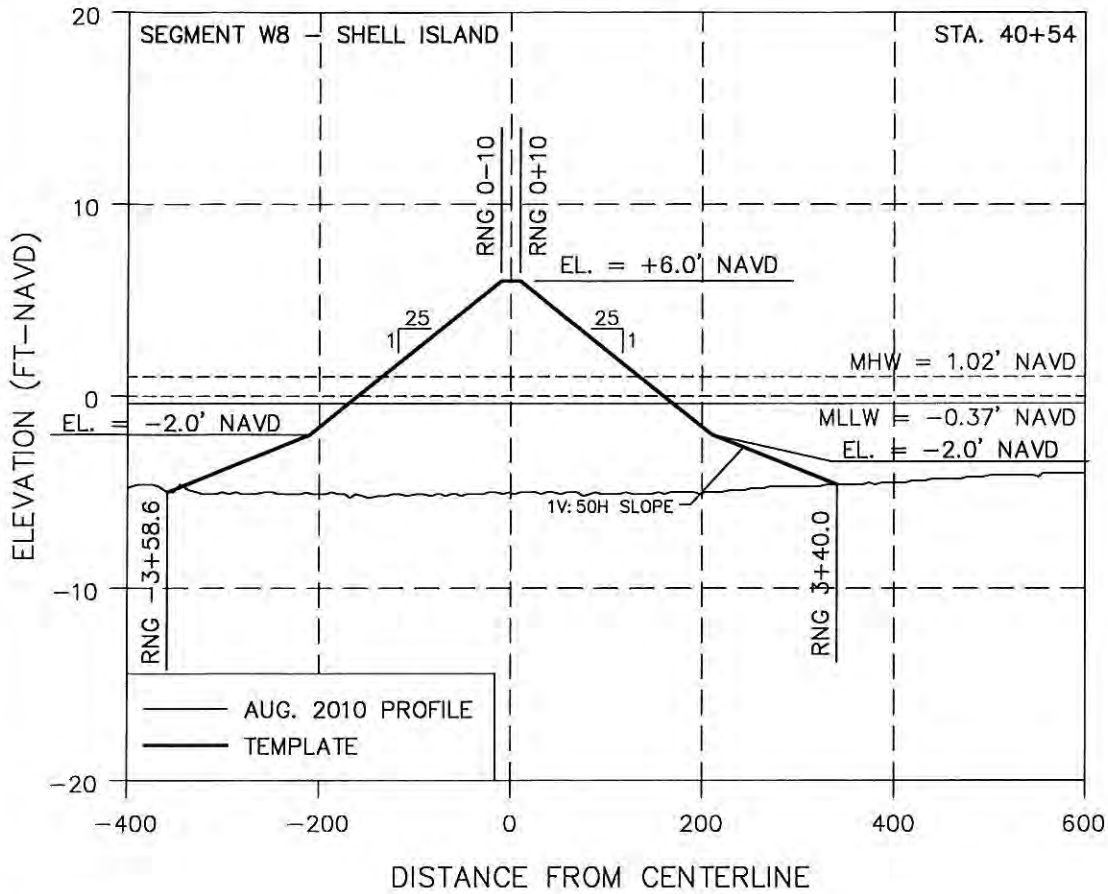
APPROVED BY:

DESIGNED BY:

DRAWN BY:



<p>SEGMENT W8 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 7 OF 18</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 8 OF 18

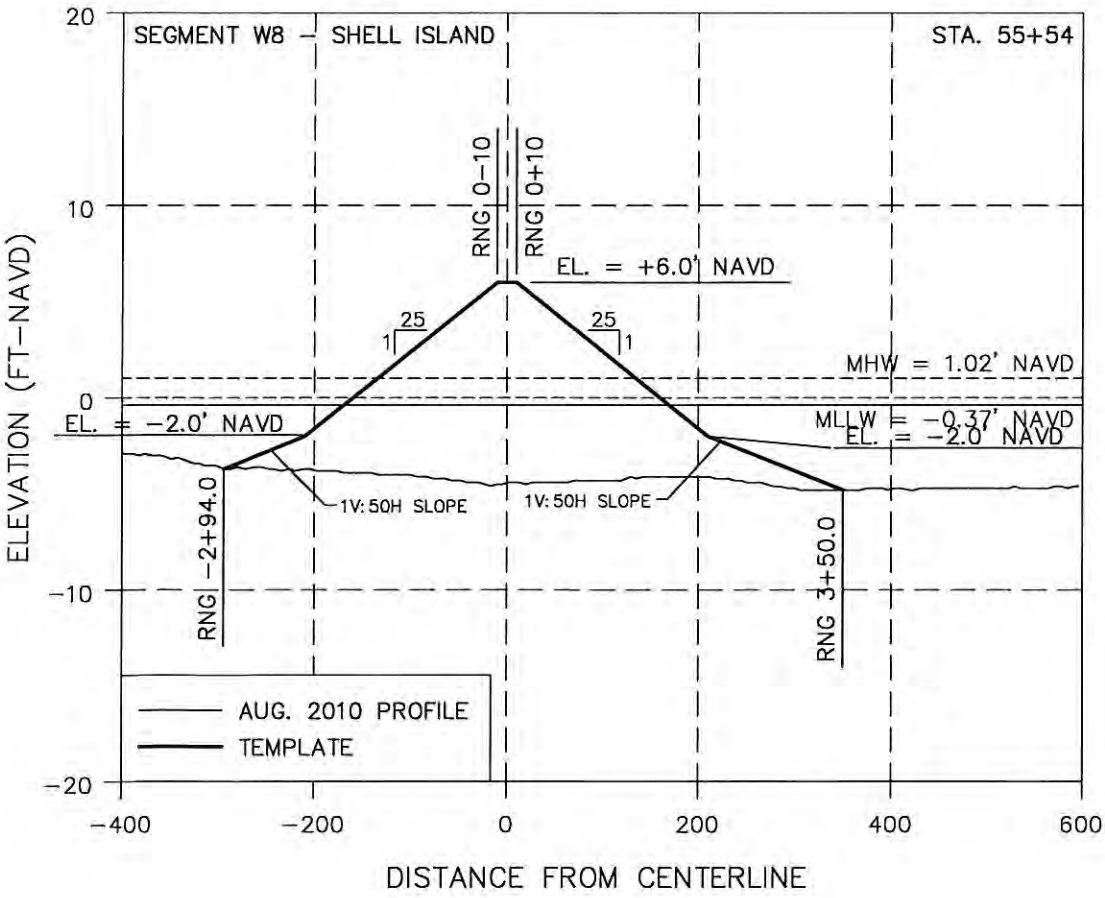
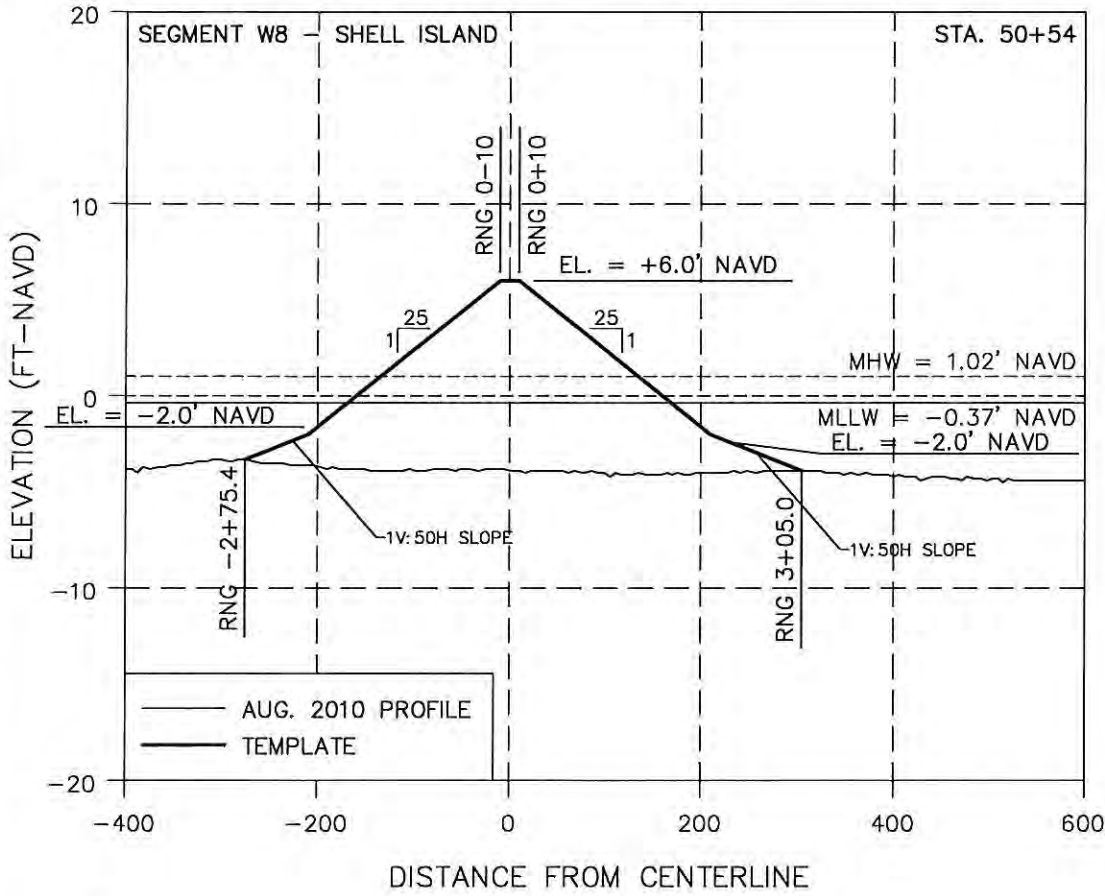
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FEDERAL PROJECT NUMBER:

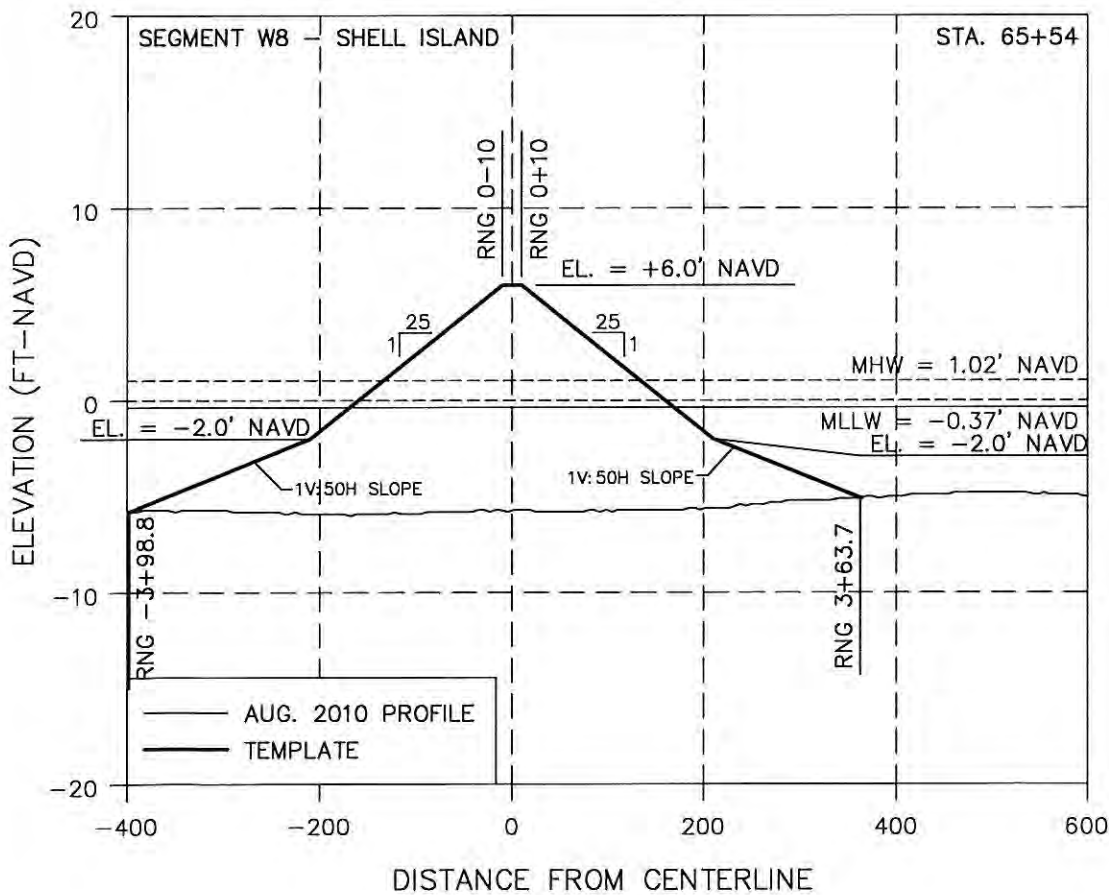
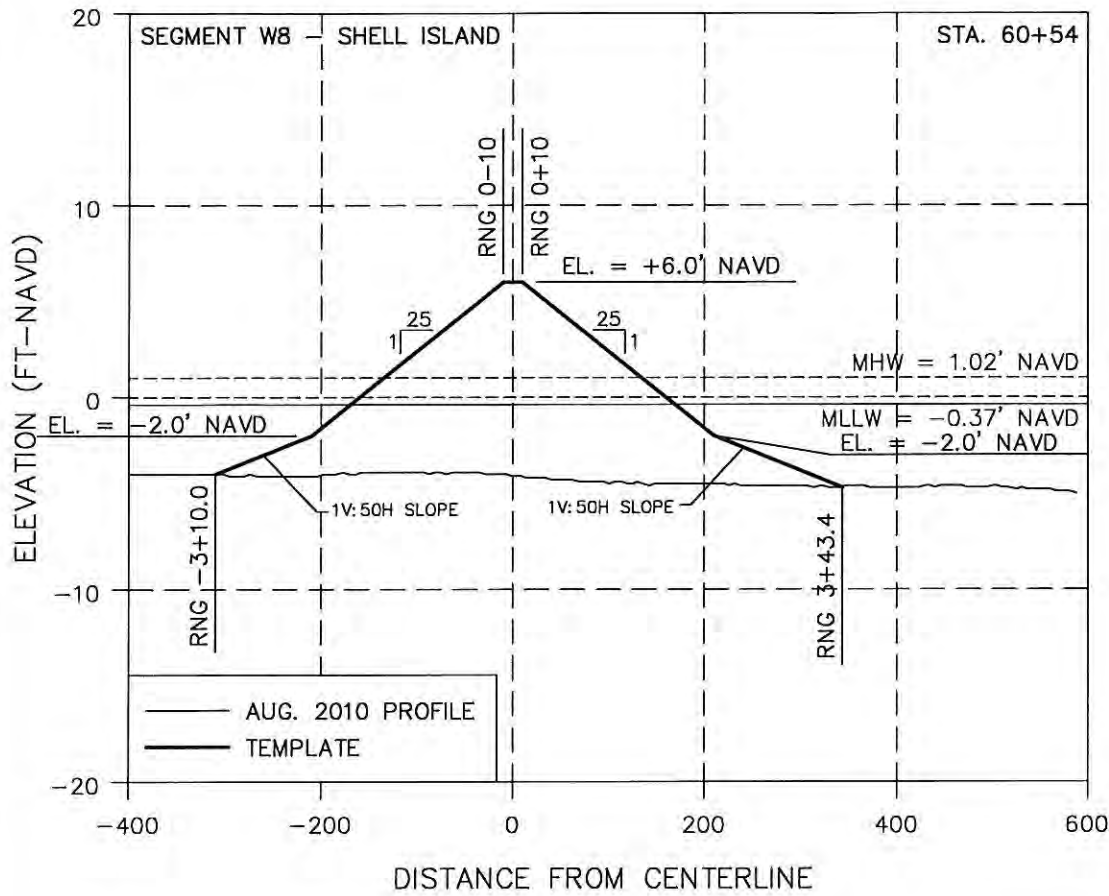
APPROVED BY:

DESIGNED BY:

DRAWN BY:



<p>SEGMENT W8 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 9 OF 18</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

SHEET 10 OF 18

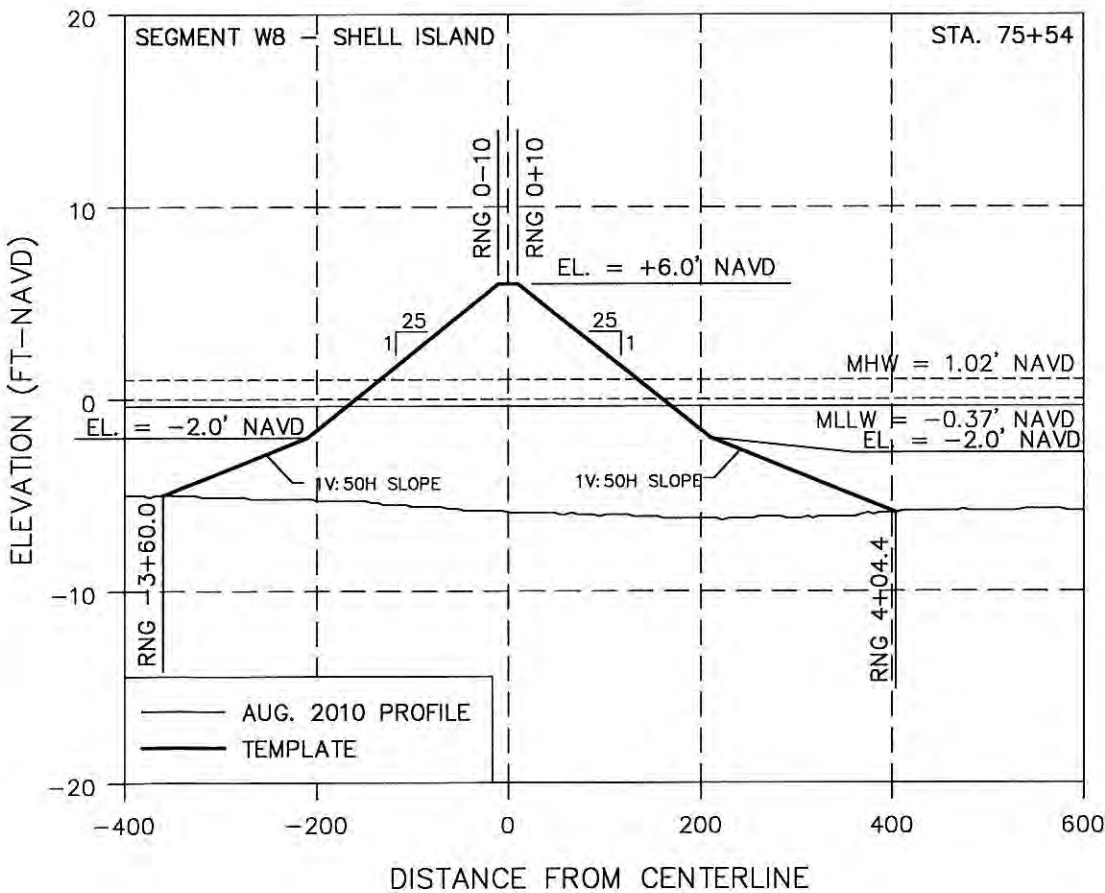
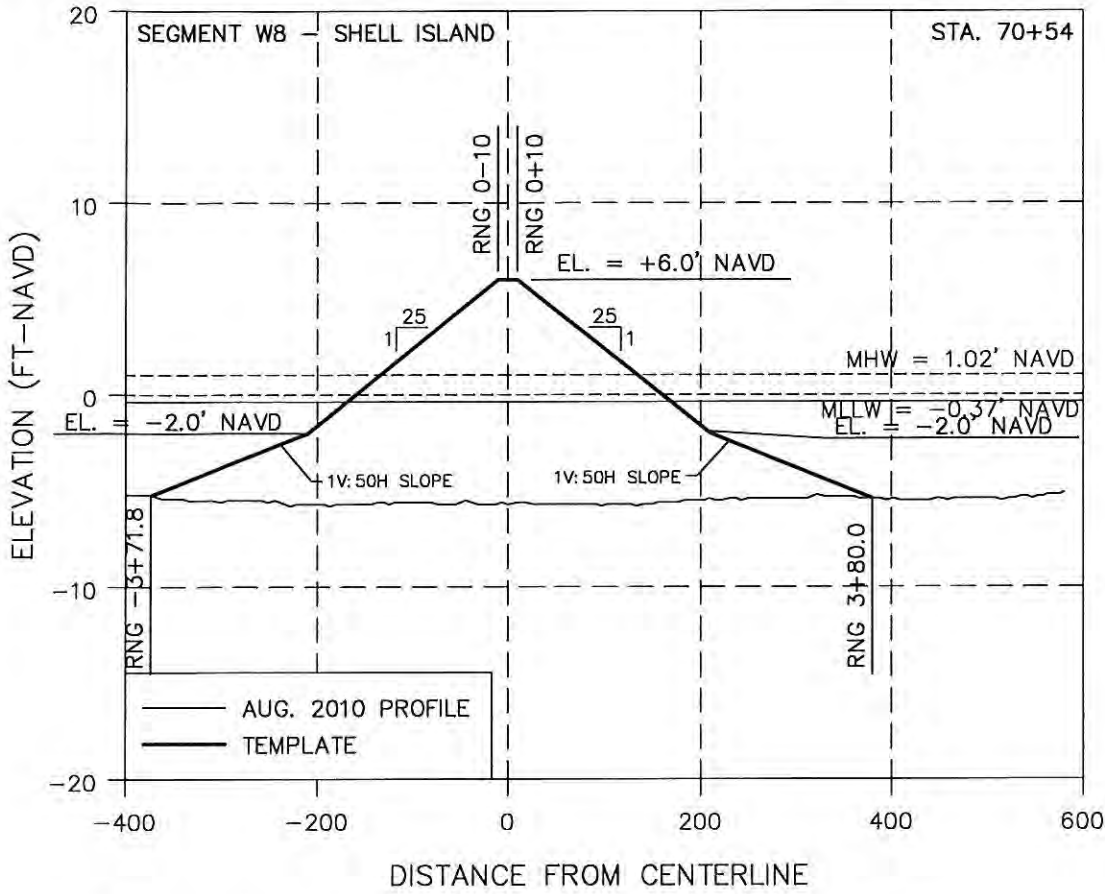
FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:





SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 11 OF 18

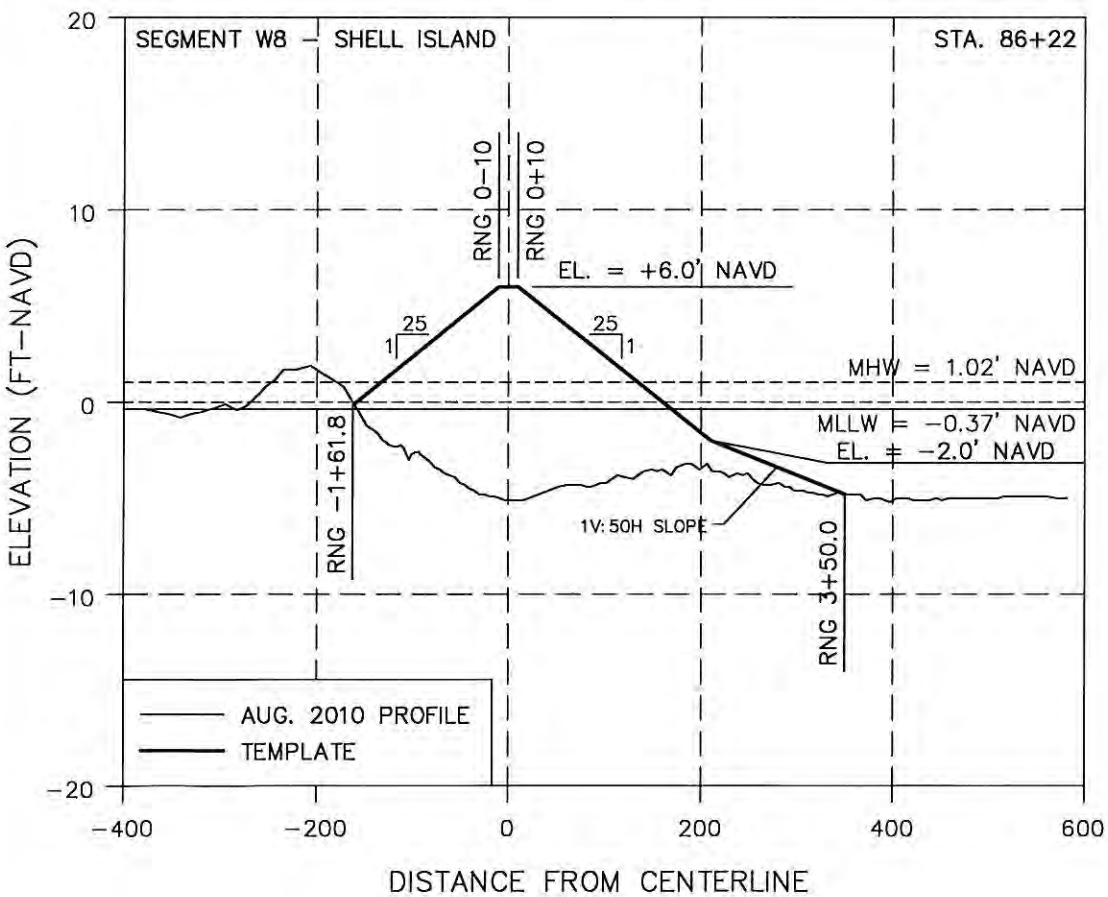
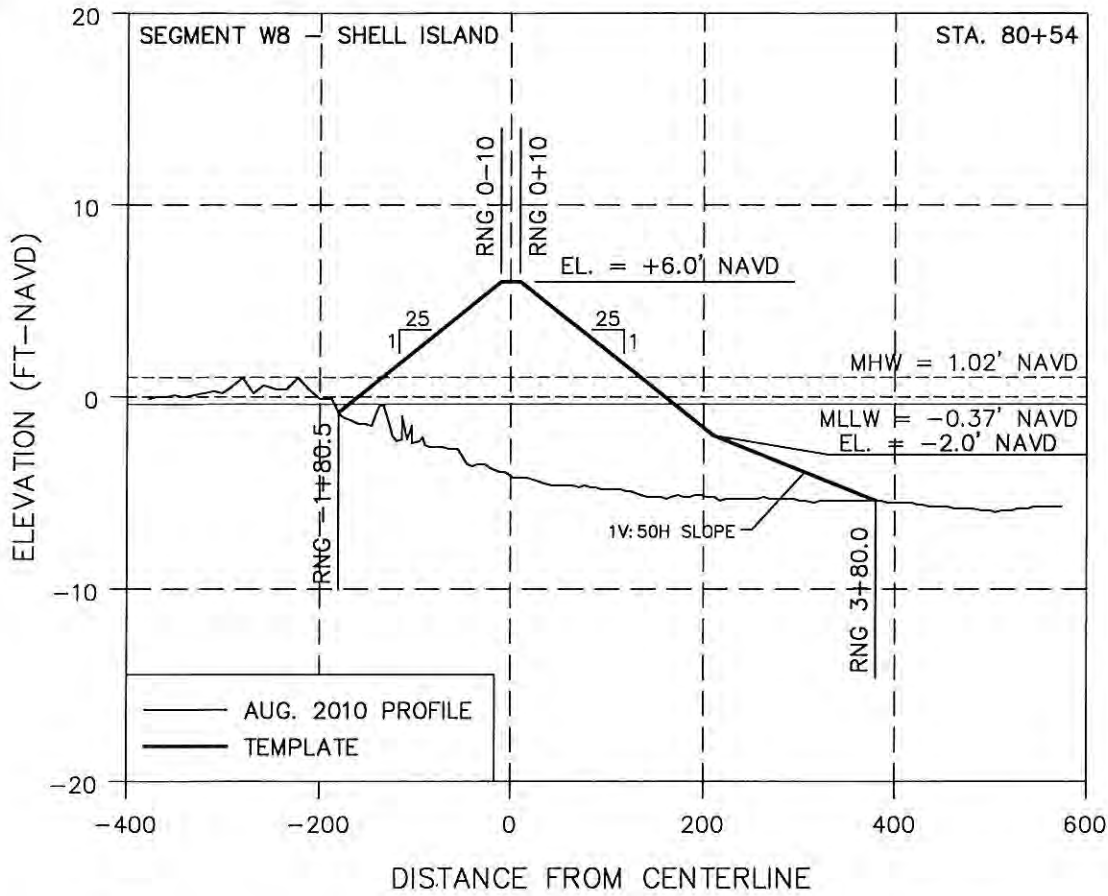
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

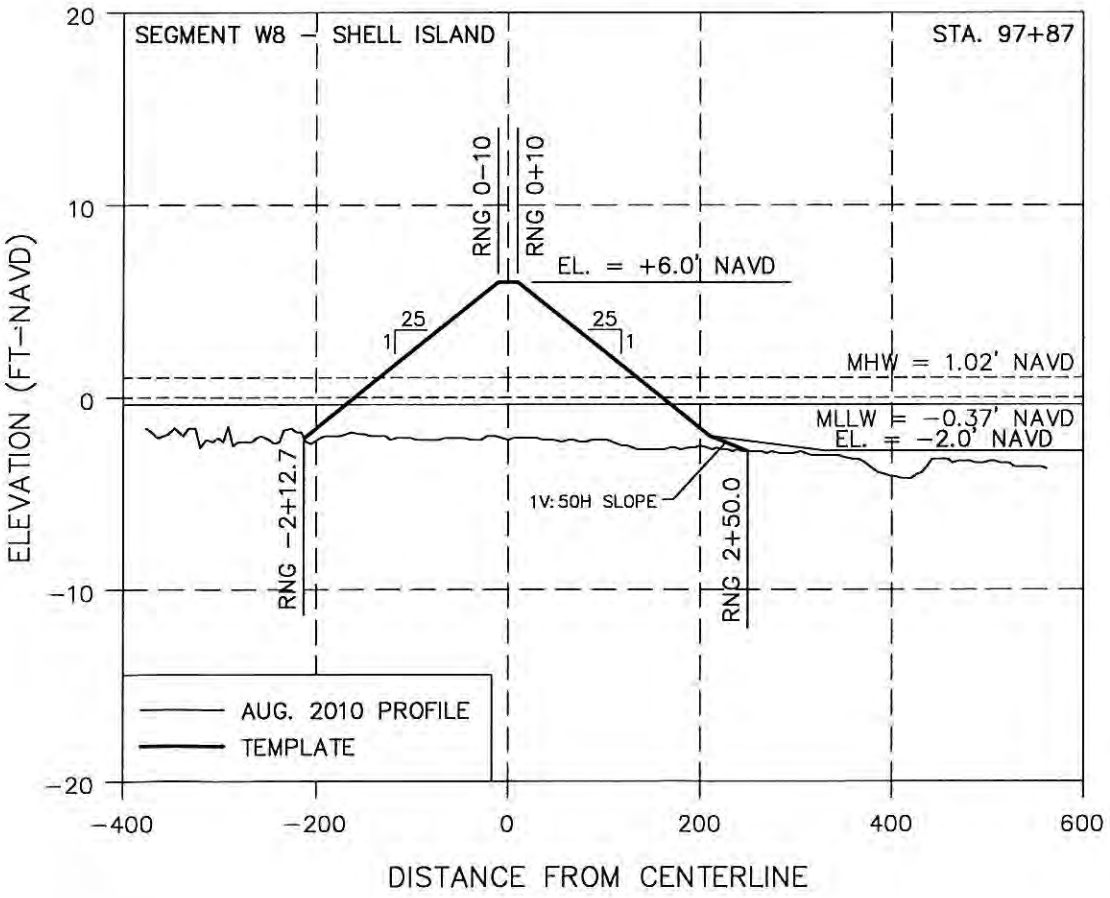
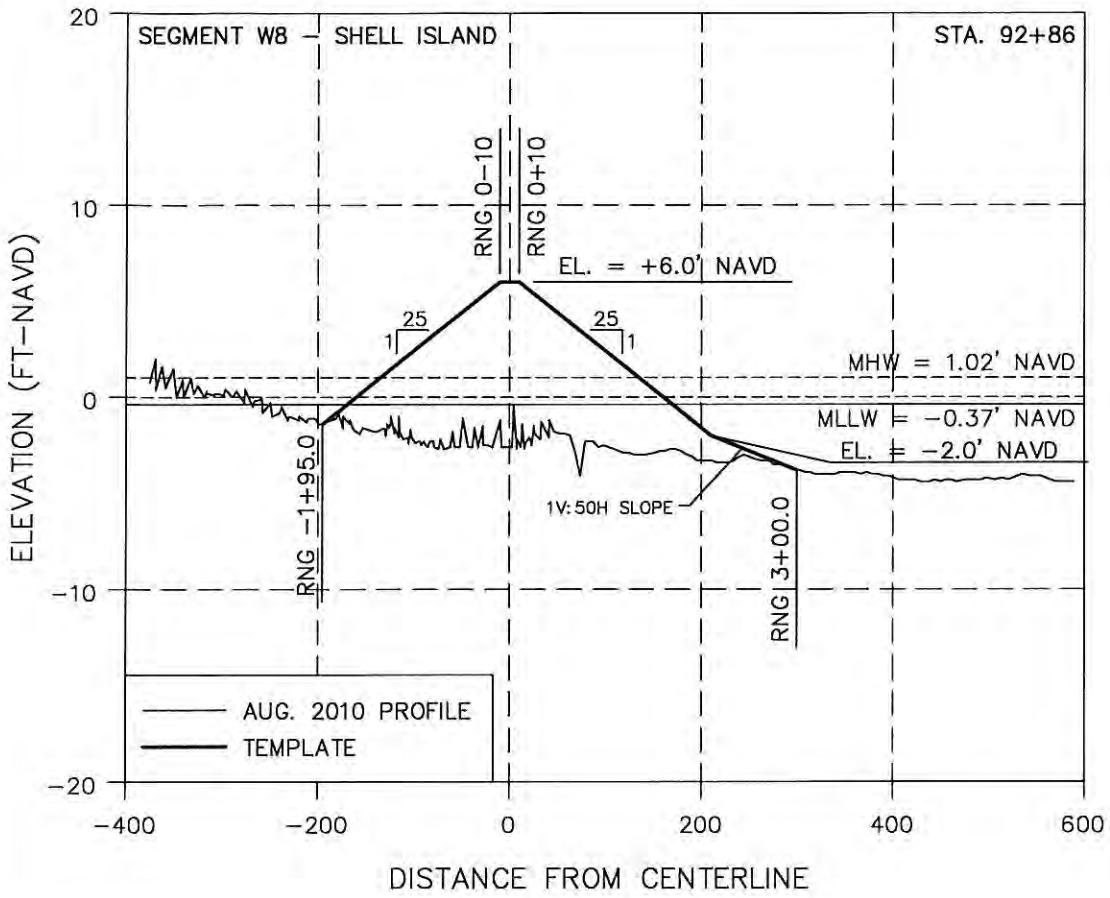
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DESIGNED BY:

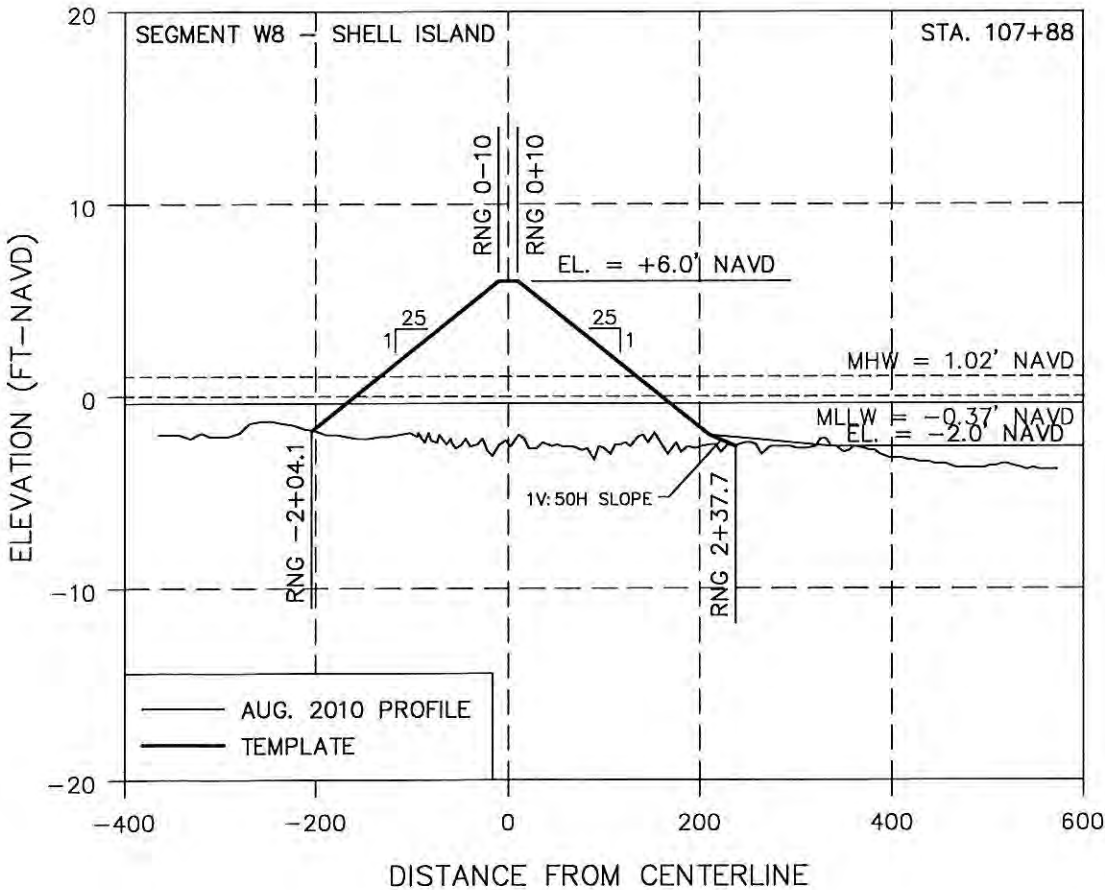
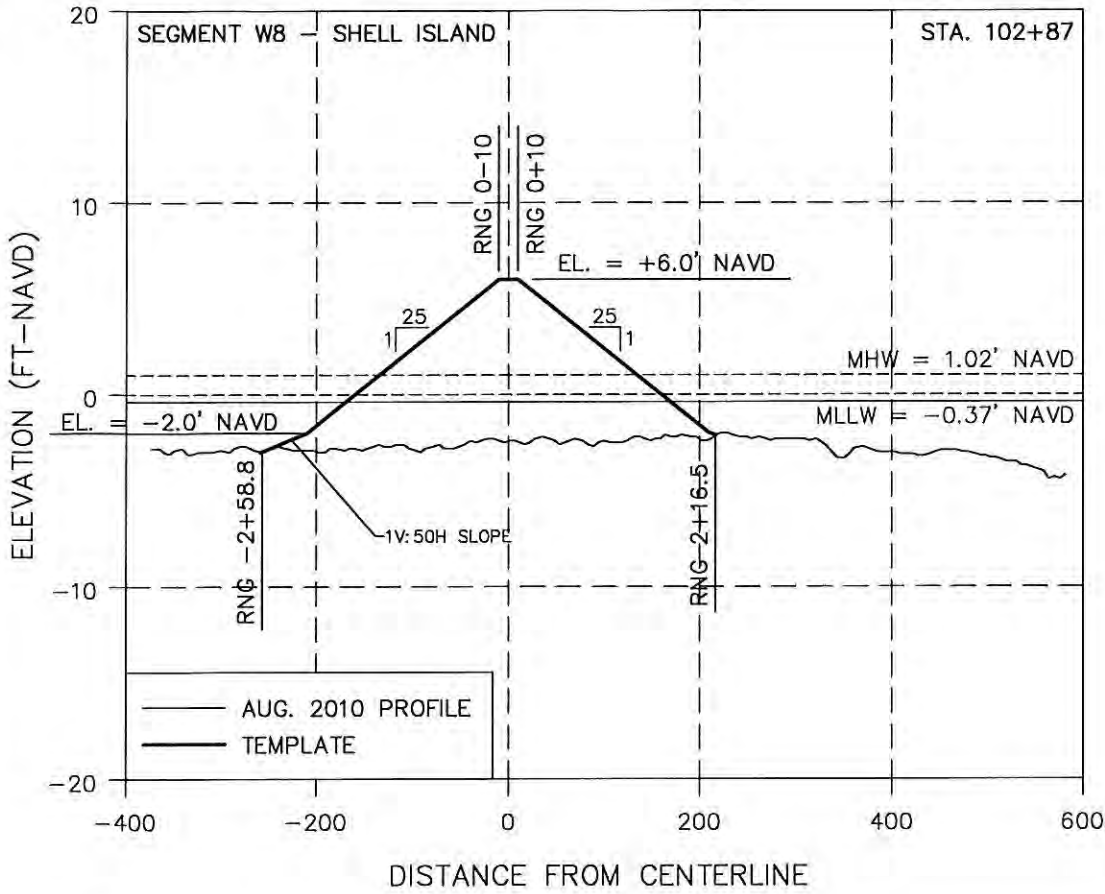
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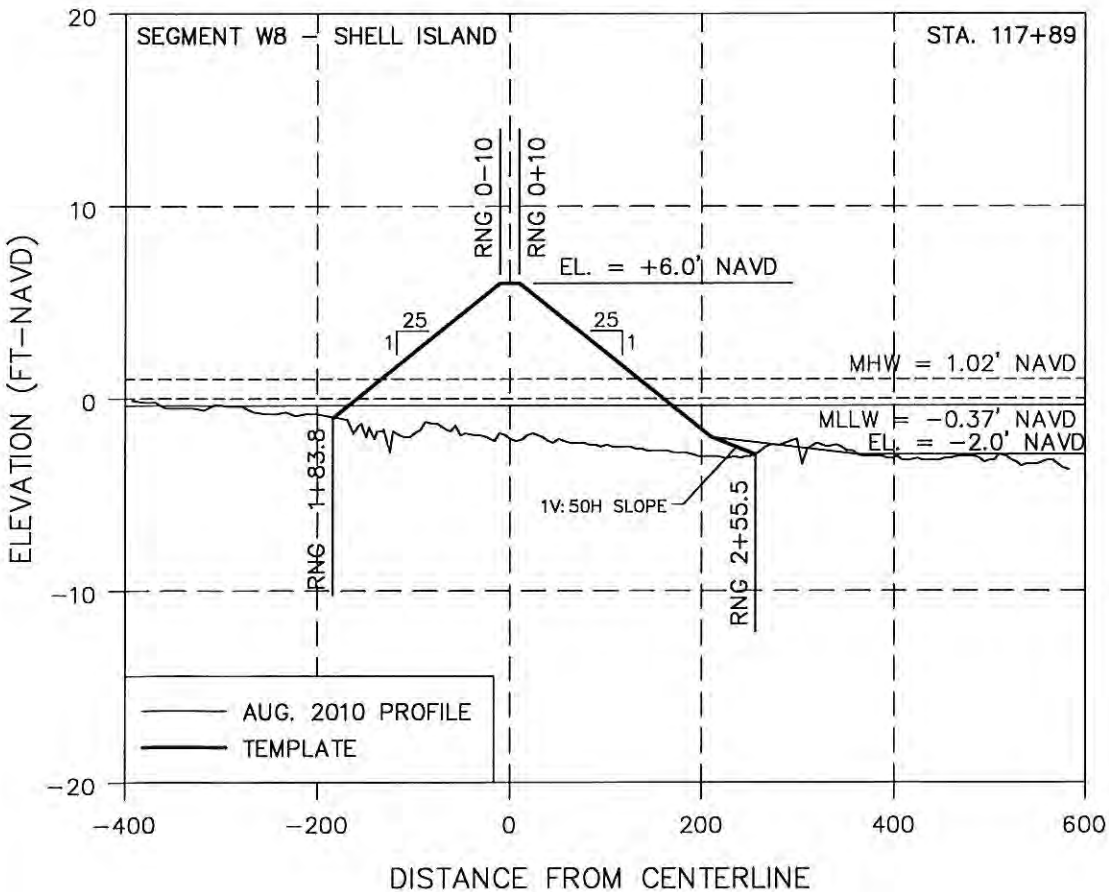
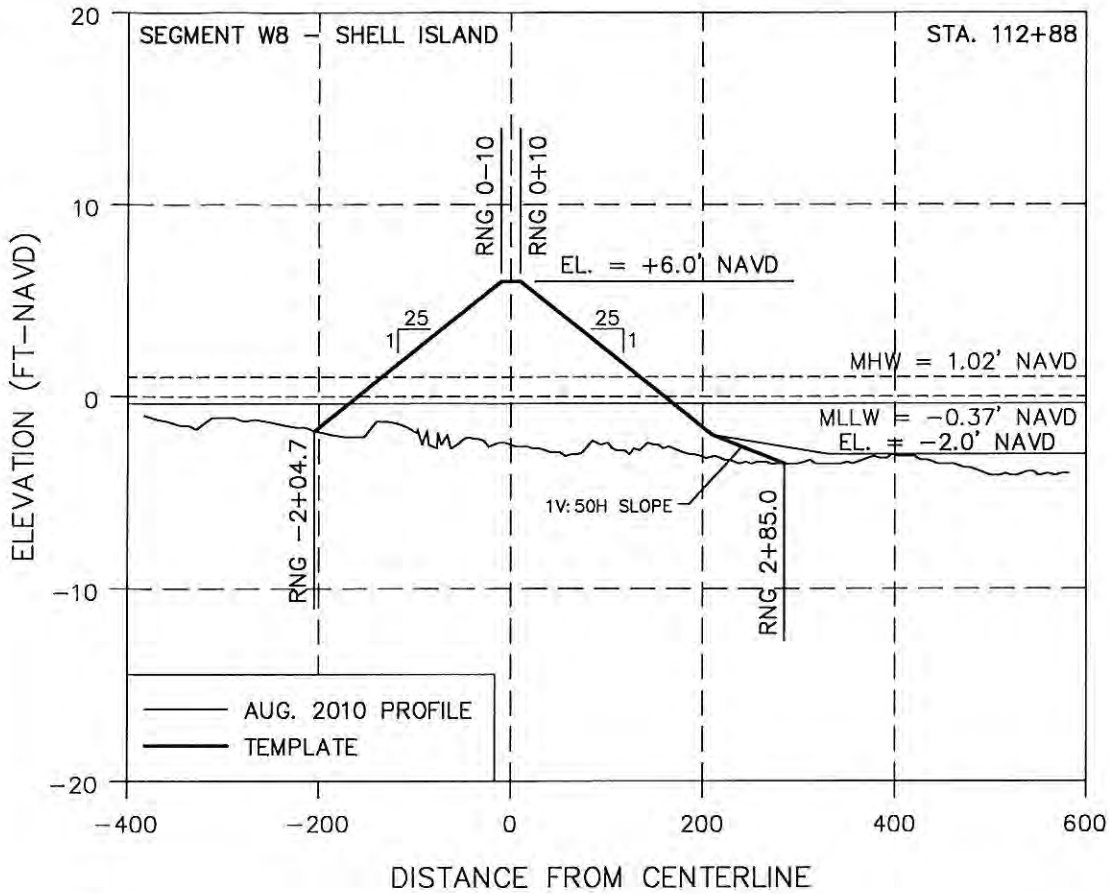
SEGMENT W8 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:		DESIGNED BY:
SHEET 12 OF 18	FEDERAL PROJECT NUMBER:	APPROVED BY:	DRAWN BY:



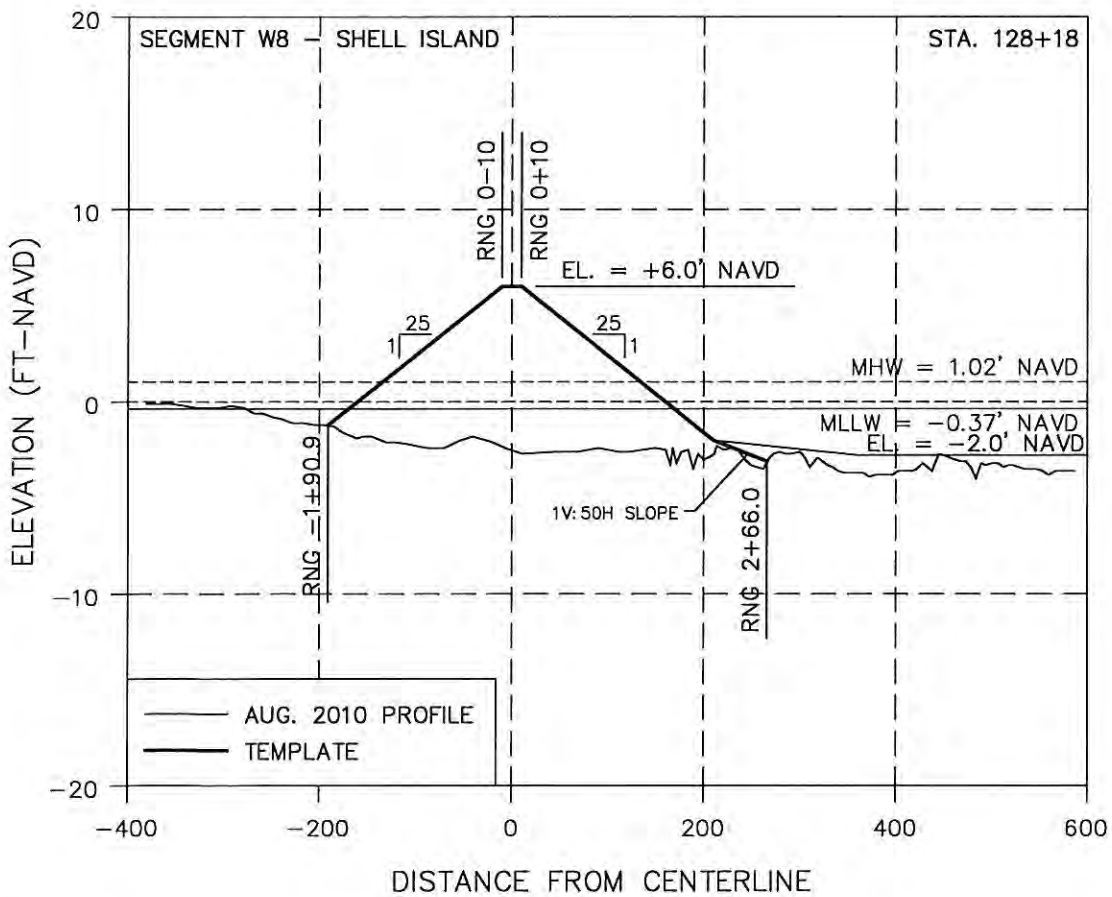
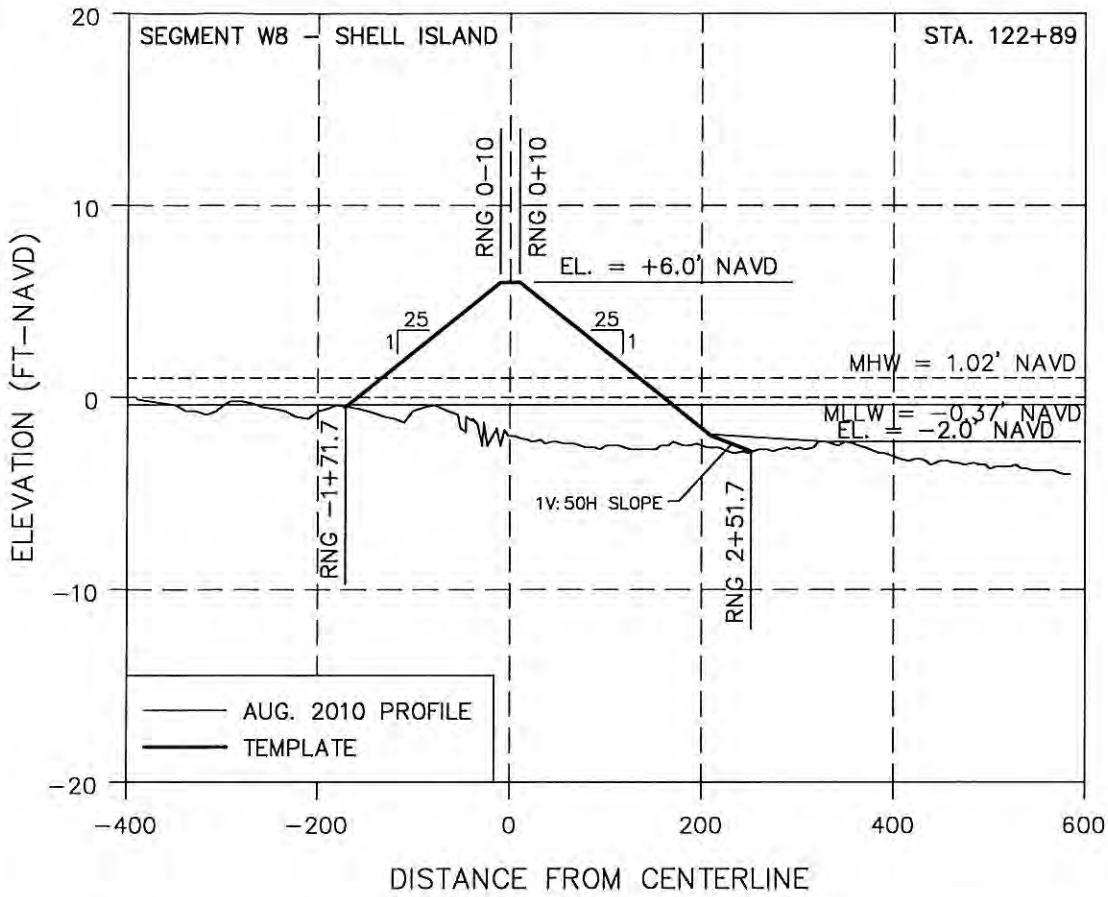
SEGMENT W8 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 13 OF 18	FEDERAL PROJECT NUMBER:	APPROVED BY:	



<p>SEGMENT W8 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 14 OF 18</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	



SEGMENT W8 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 15 OF 18	FEDERAL PROJECT NUMBER:	APPROVED BY:	



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 16 OF 18

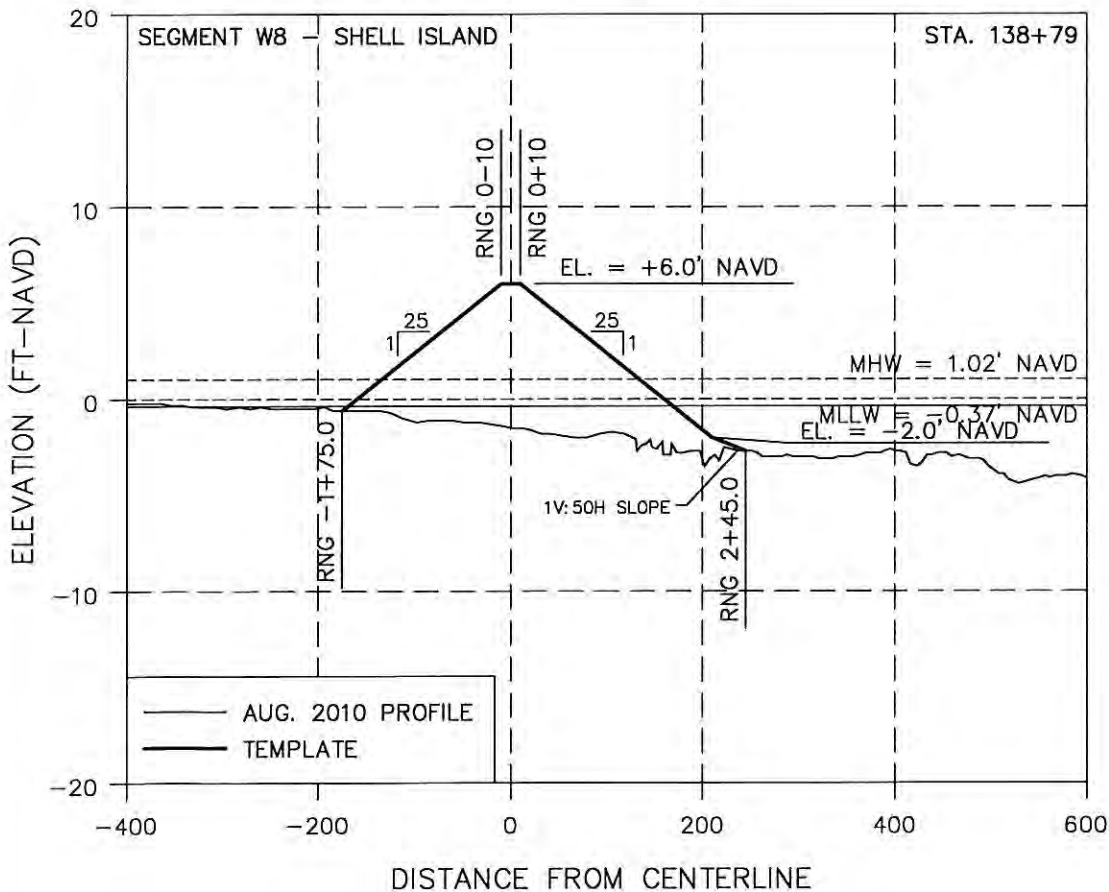
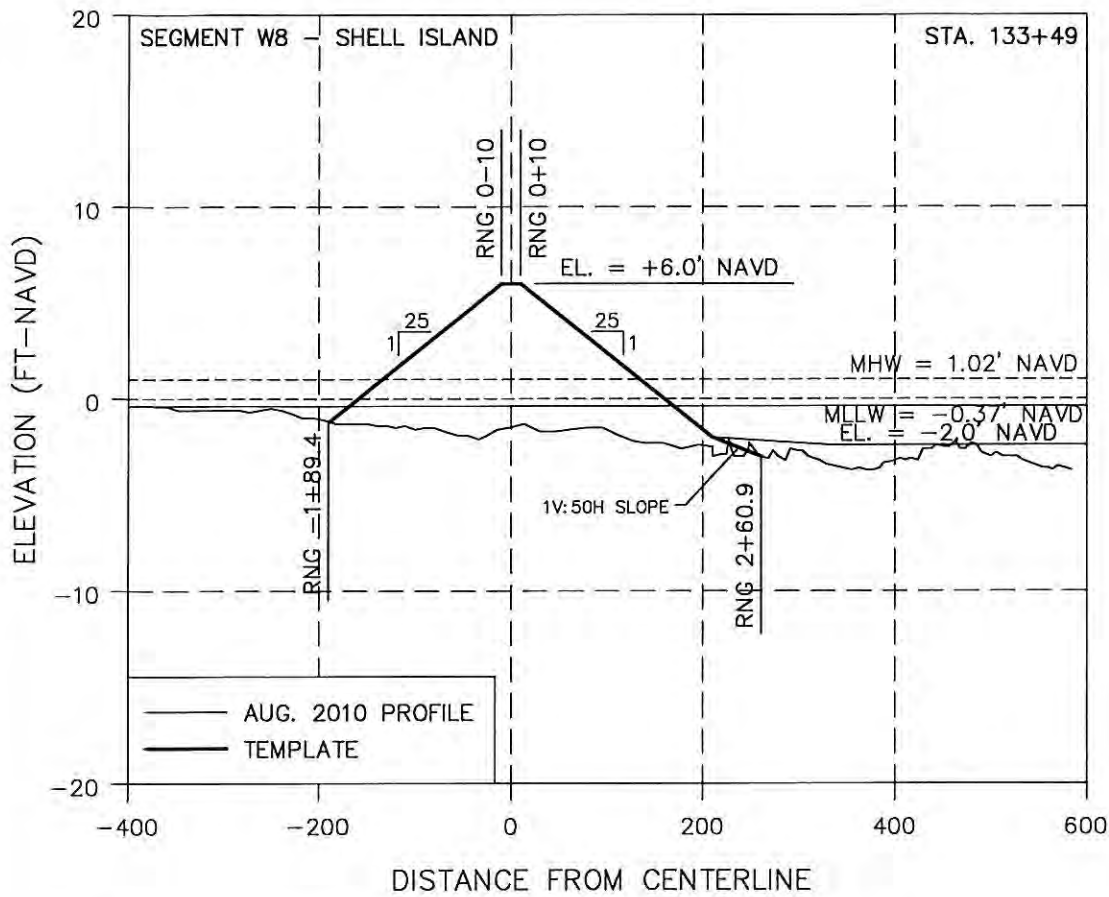
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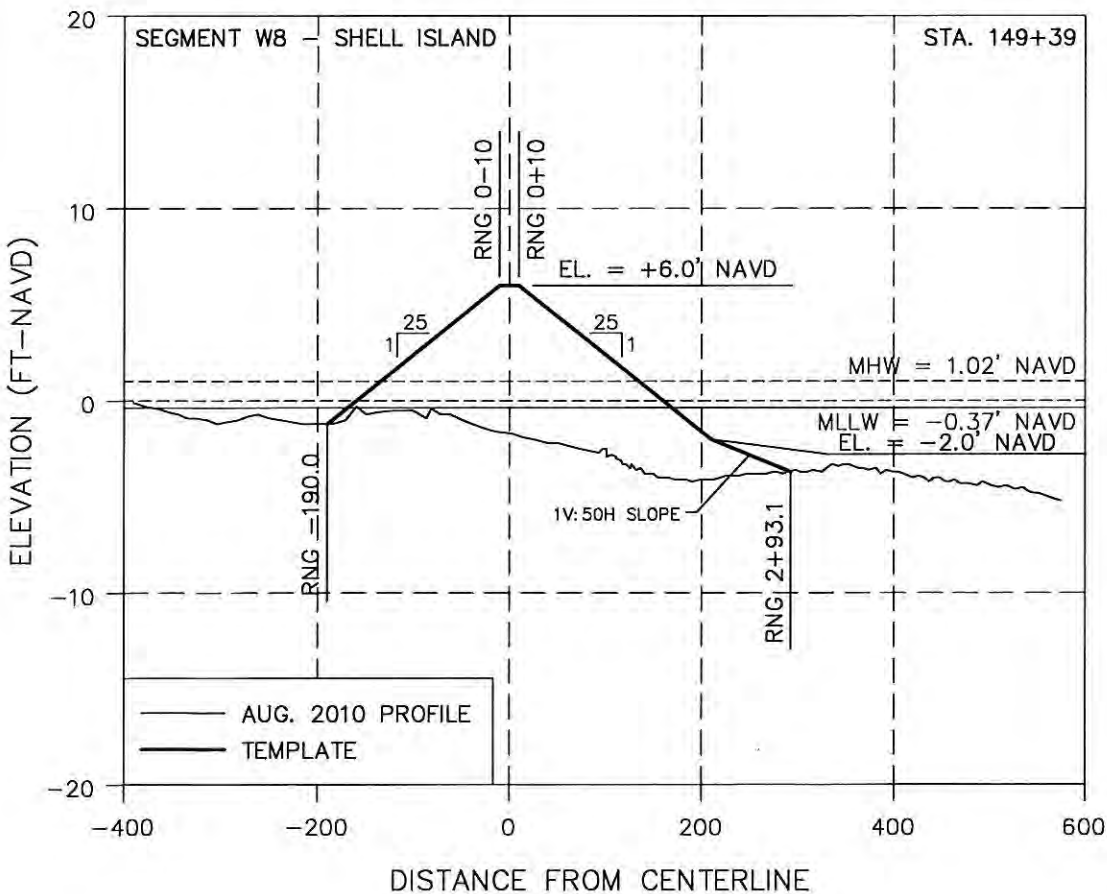
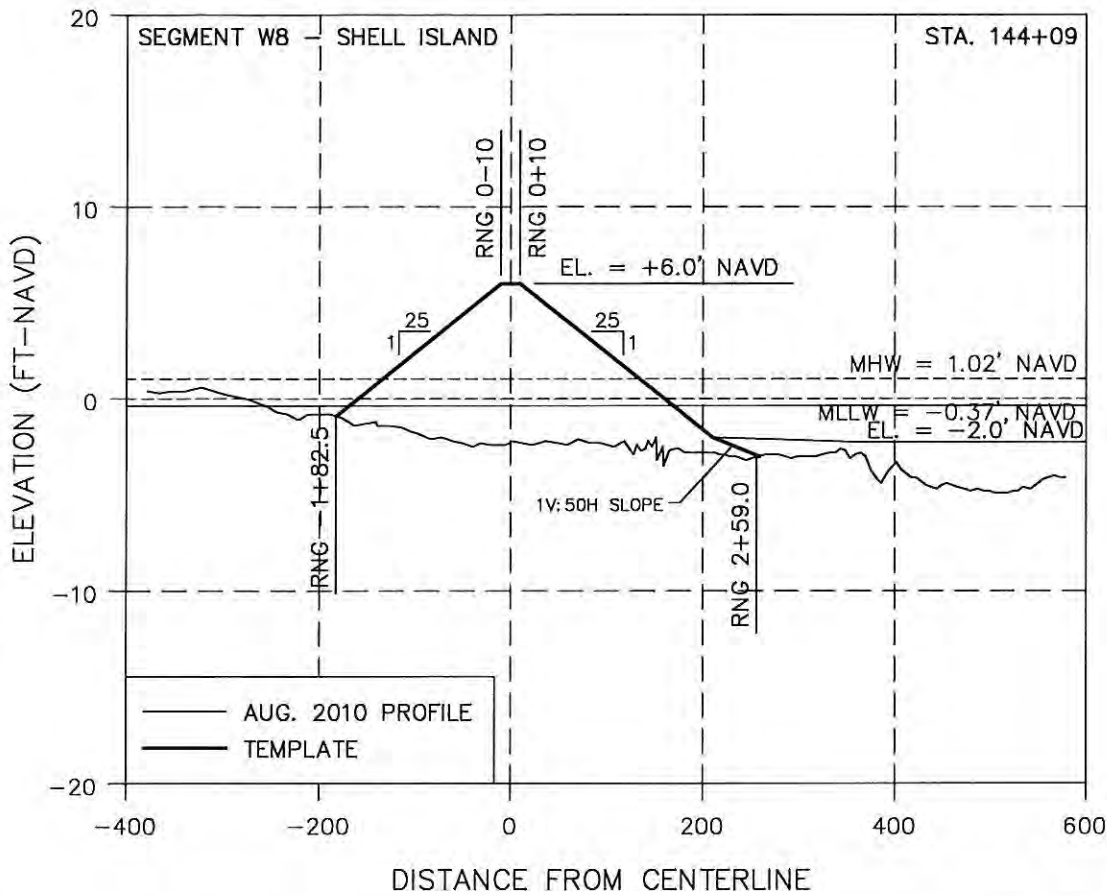
APPROVED BY:

DESIGNED BY:

DRAWN BY:



<p>SEGMENT W8 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 17 OF 18</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



SEGMENT W8  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

SHEET 18 OF 18

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

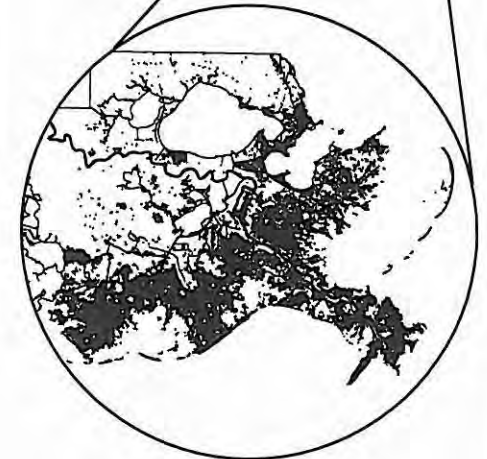
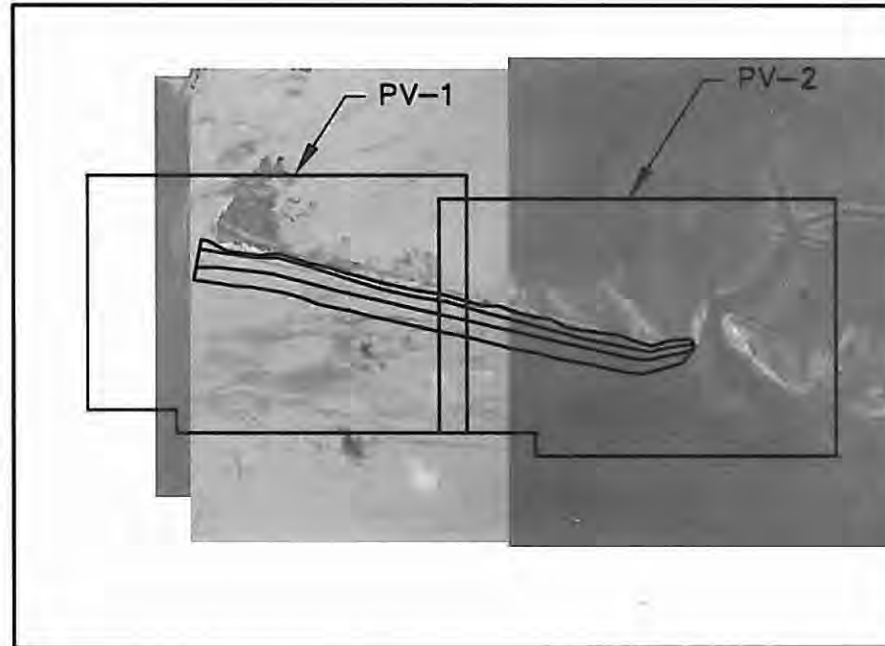
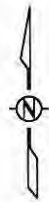


STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH

SEGMENT W9  
PELICAN ISLAND

INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2-3	PLAN VIEWS
4-18	PROFILES



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W9 TITLE SHEET
		STATE PROJECT NUMBER:	DATE: 10/13/10
DRAWN BY:	DESIGNED BY:	APPROVED BY:	FEDERAL PROJECT NUMBER:
			SHEET 1 OF 18

VOLUME = 2,573,000 CY  
 AREA = 267.6 ACRES  
 BERM LENGTH = 13,230 FT.

N 280000

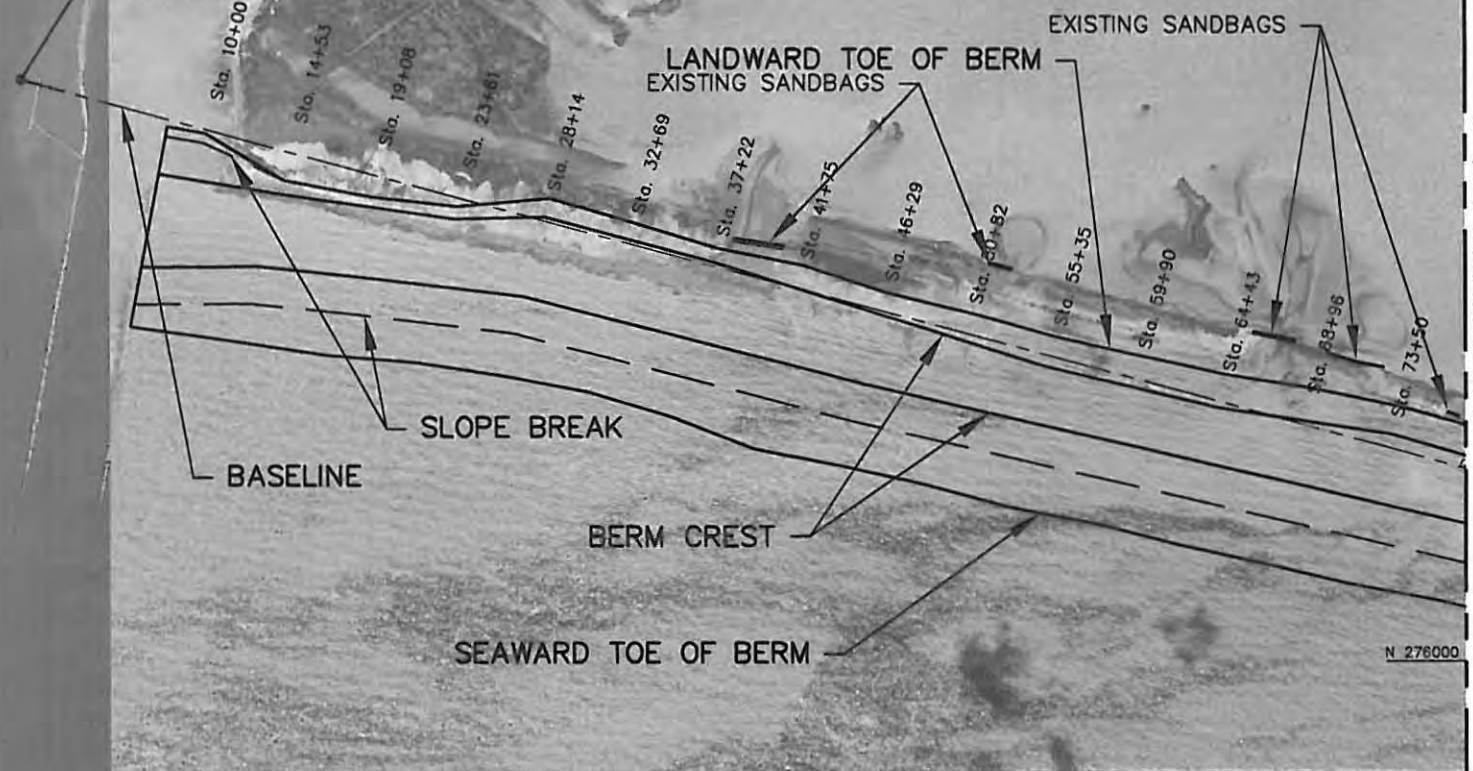
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N 280000

E 3830000

P.O.C.  
 X = 3,830,711.9  
 Y = 279,028.8  
 LATITUDE = 29° 15' 21.158"  
 LONGITUDE = 89° 36' 32.165"

PELICAN ISLAND



MATCHLINE PV-2

N 276000

N 276000

GULF OF MEXICO



0 500 1000

GRAPHIC SCALE IN FT

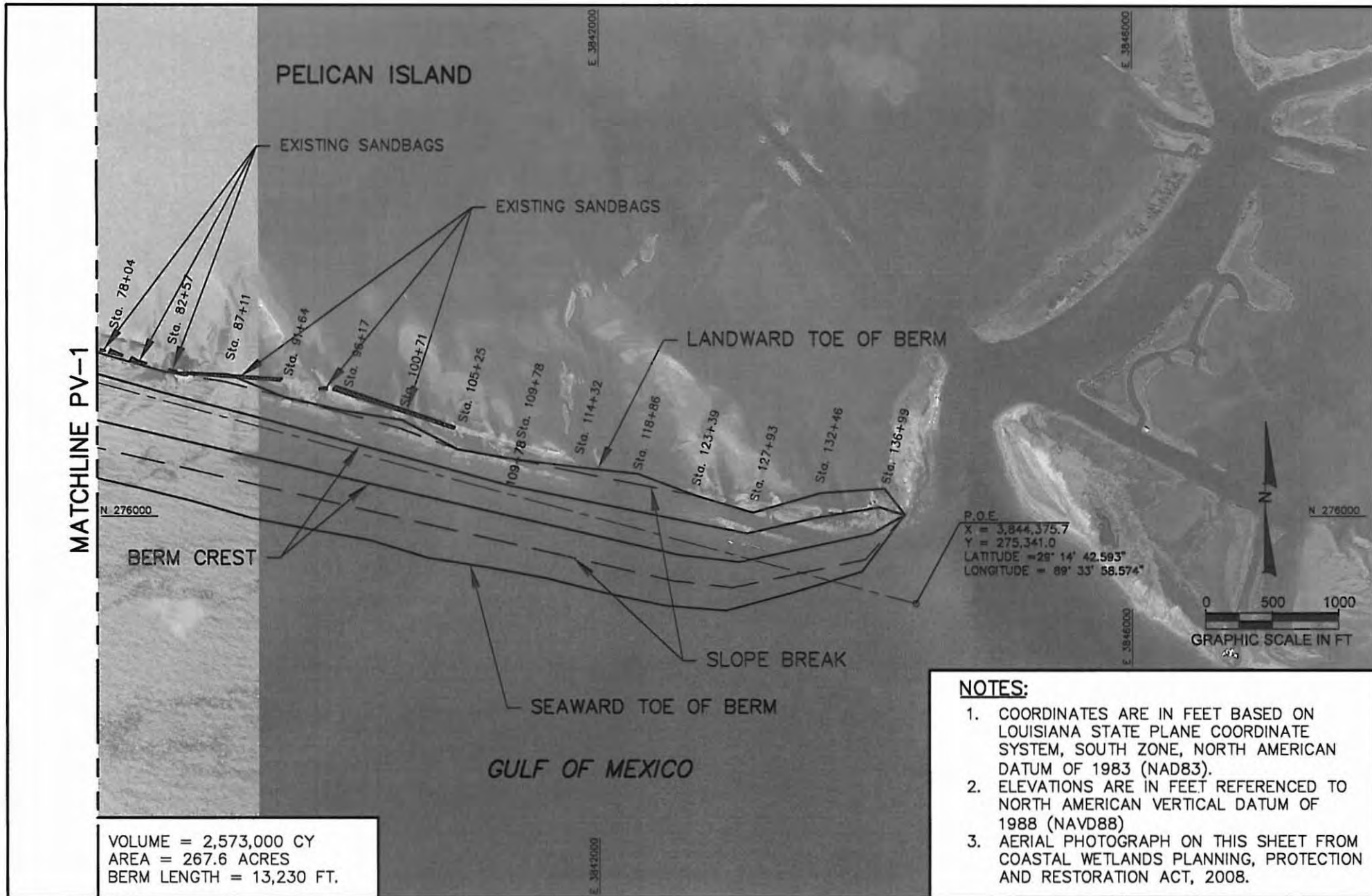
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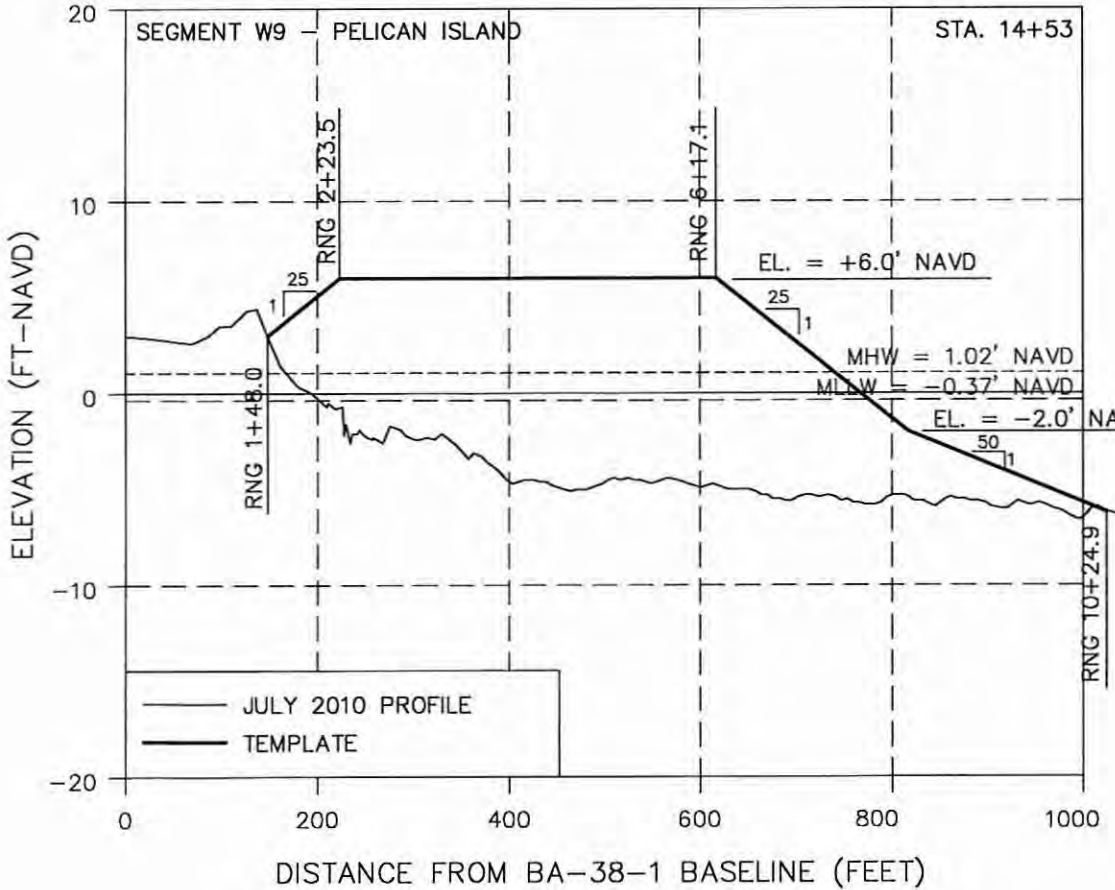
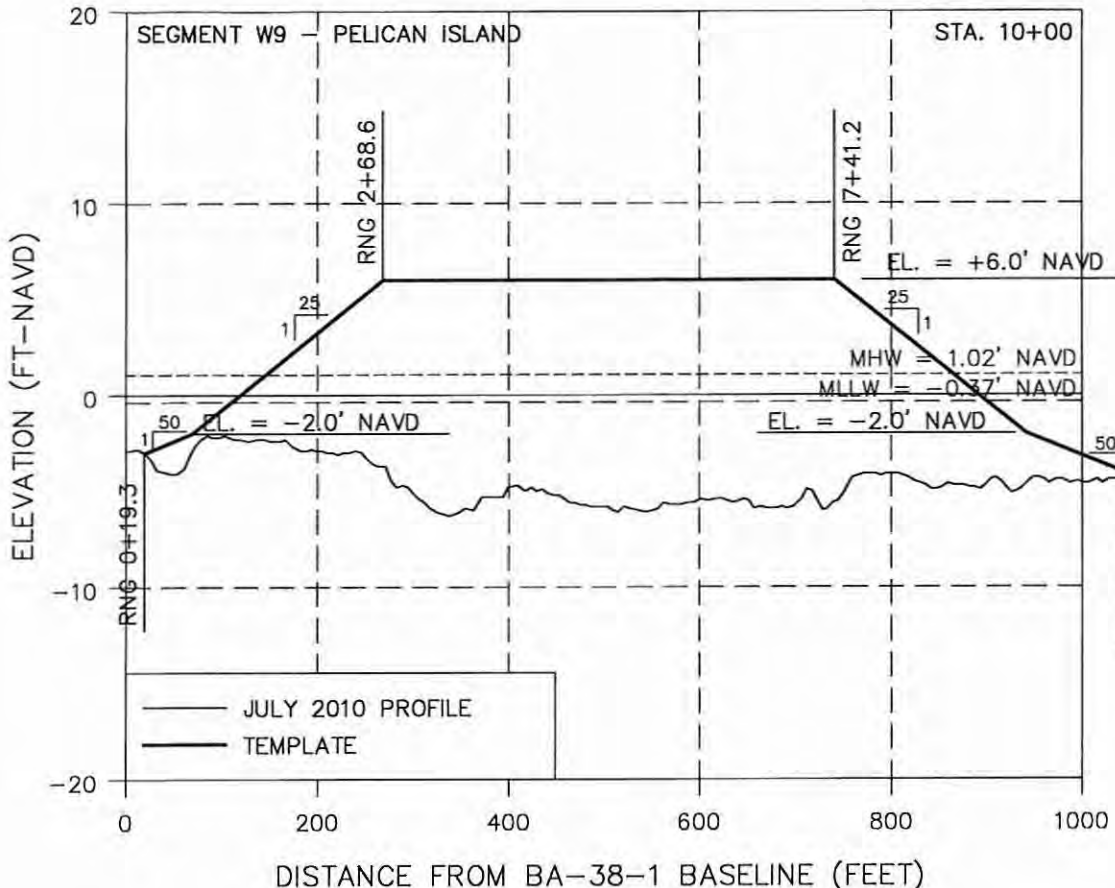
**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH ON THIS SHEET FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W9 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:
DATE: 10/13/10  SHEET 2 OF 18			



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION          ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>BARRIER ISLAND          DEFENSE</b>	<b>SEGMENT W9          PLAN VIEW</b>
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER: DATE: 10/13/10 SHEET 3 OF 18



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 4 OF 18

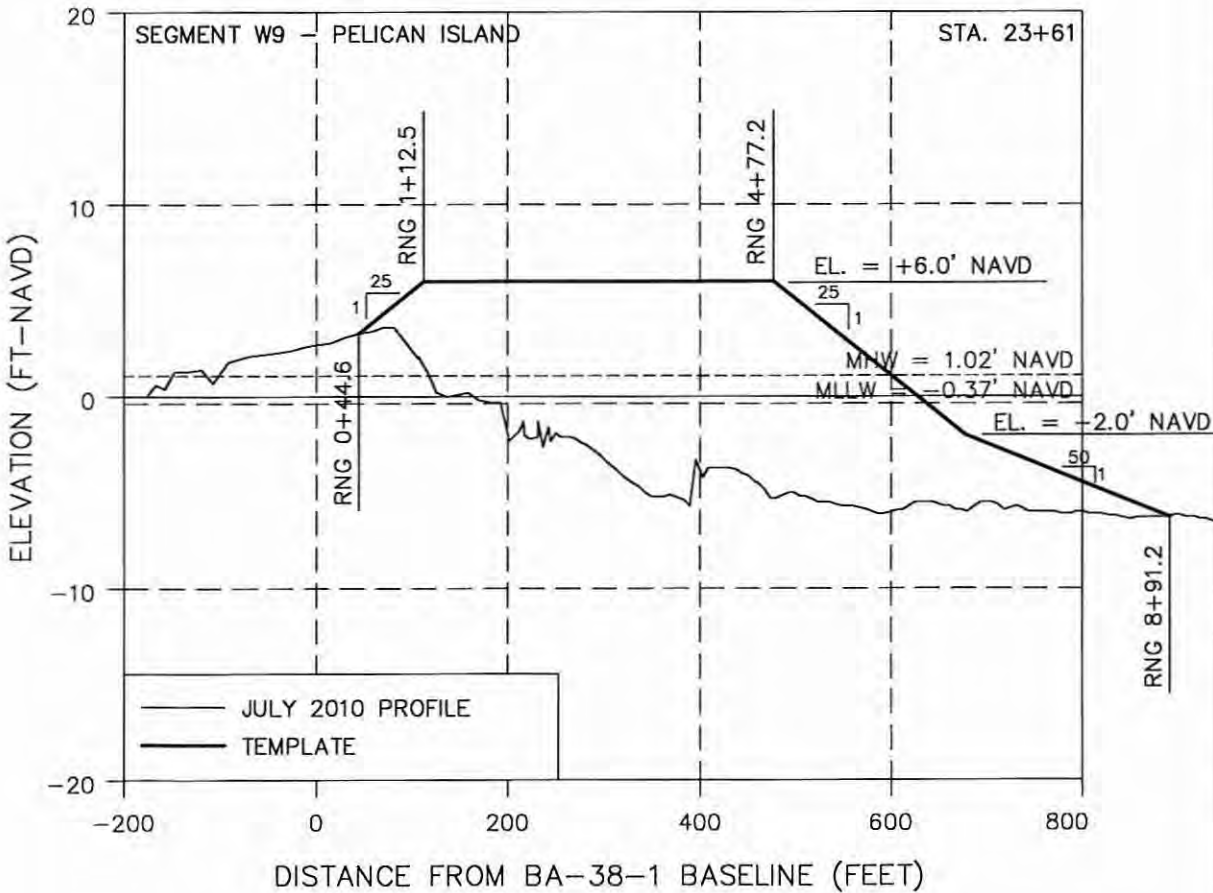
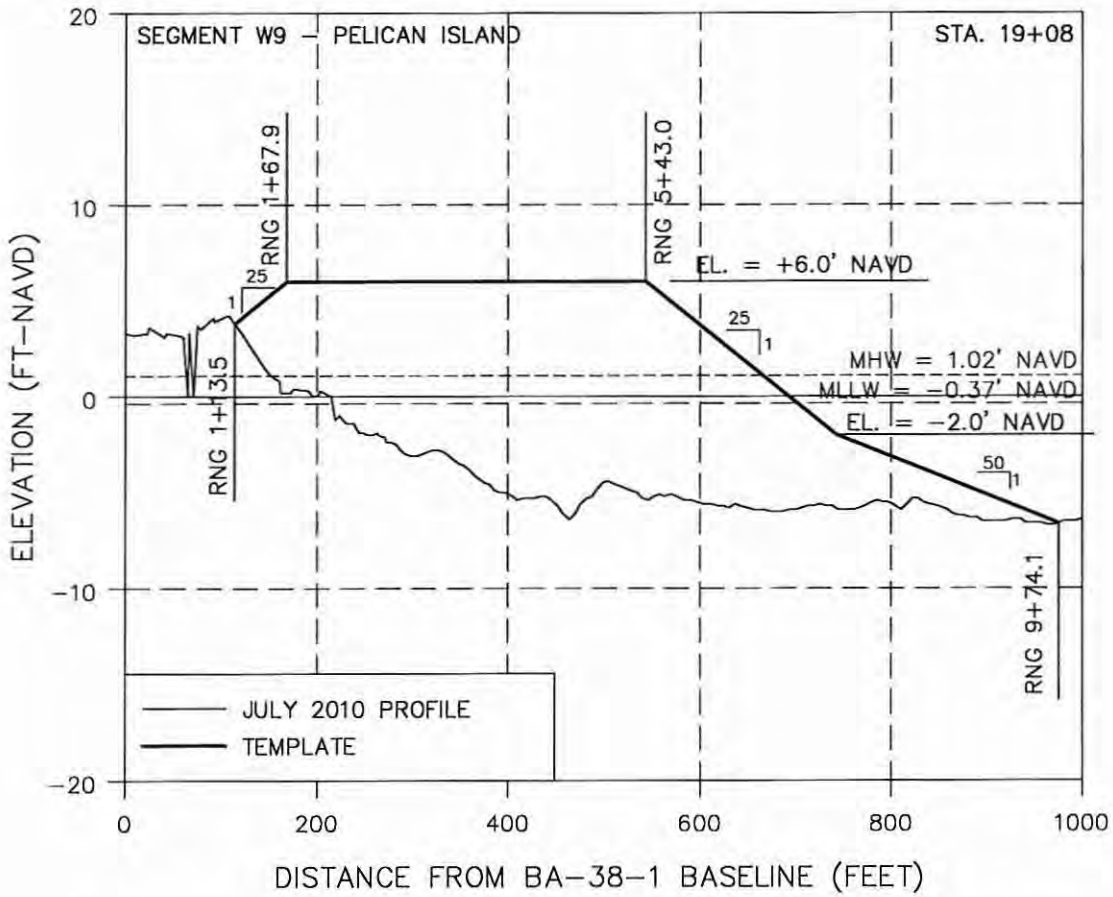
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

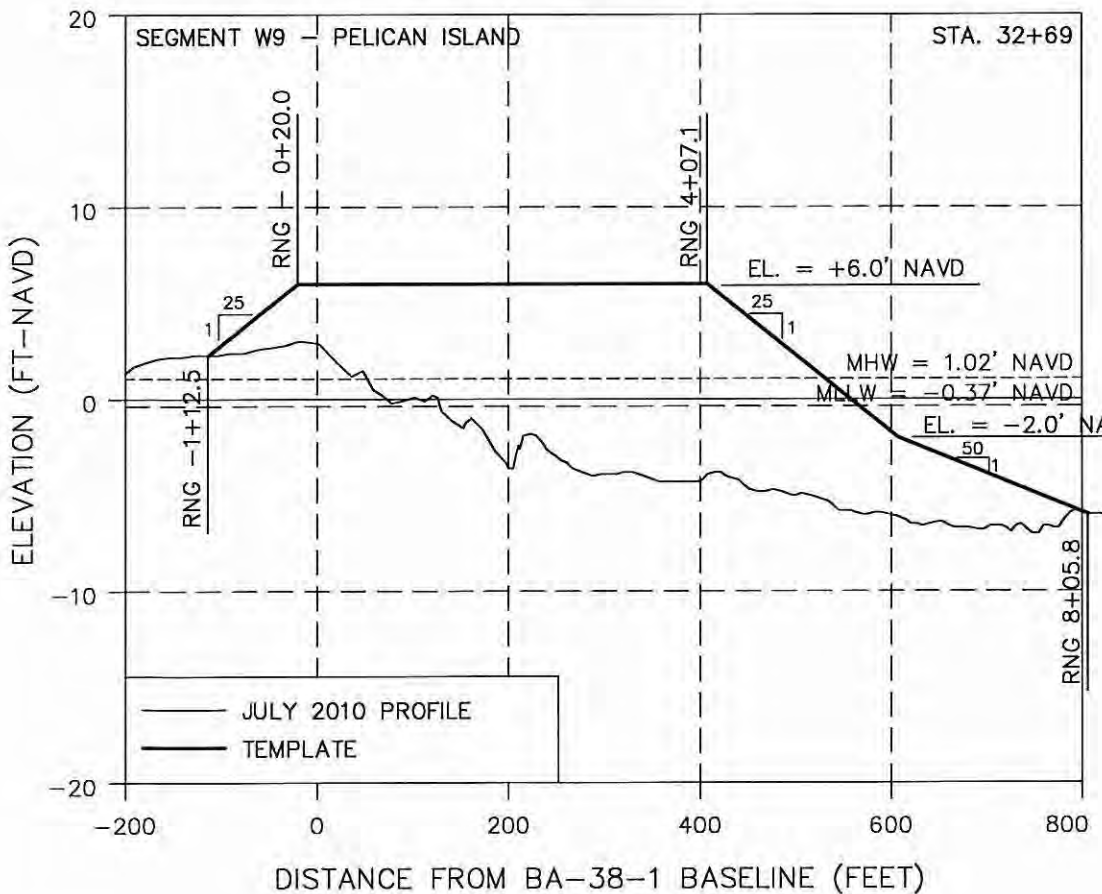
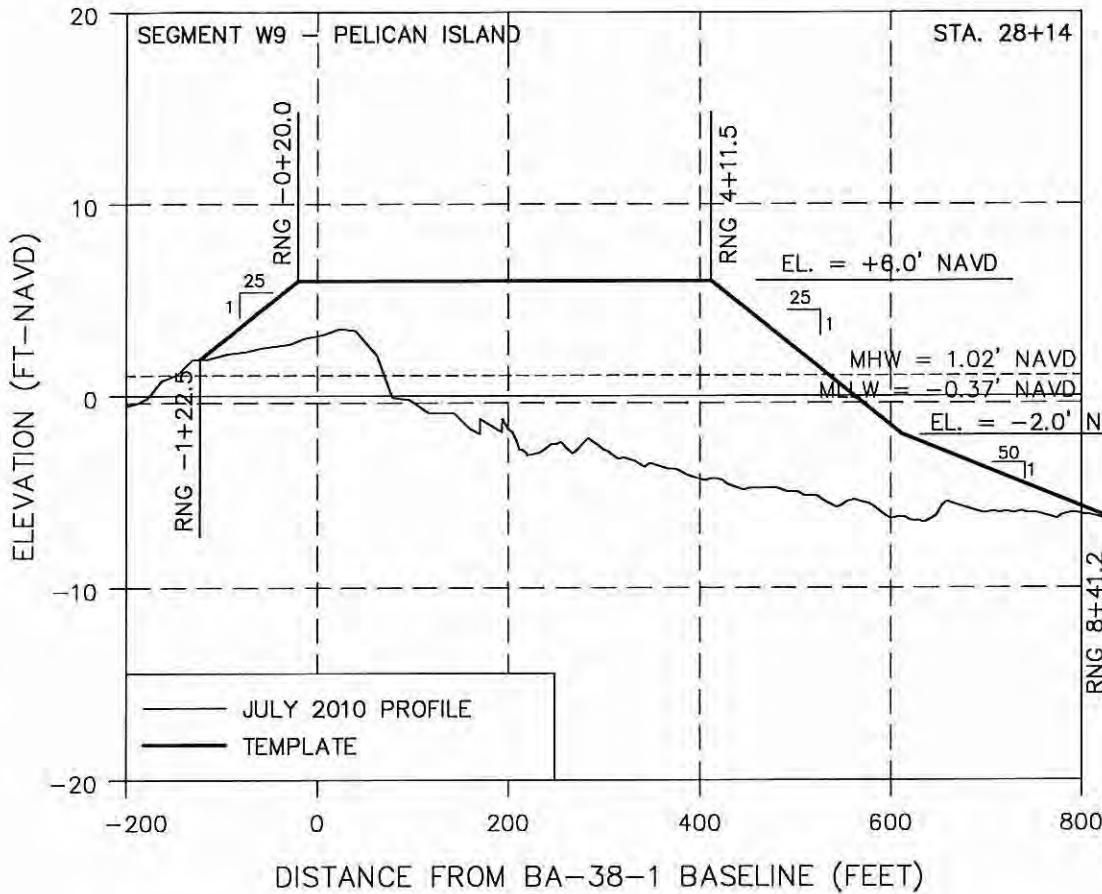
SHEET 5 OF 18

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 6 OF 18

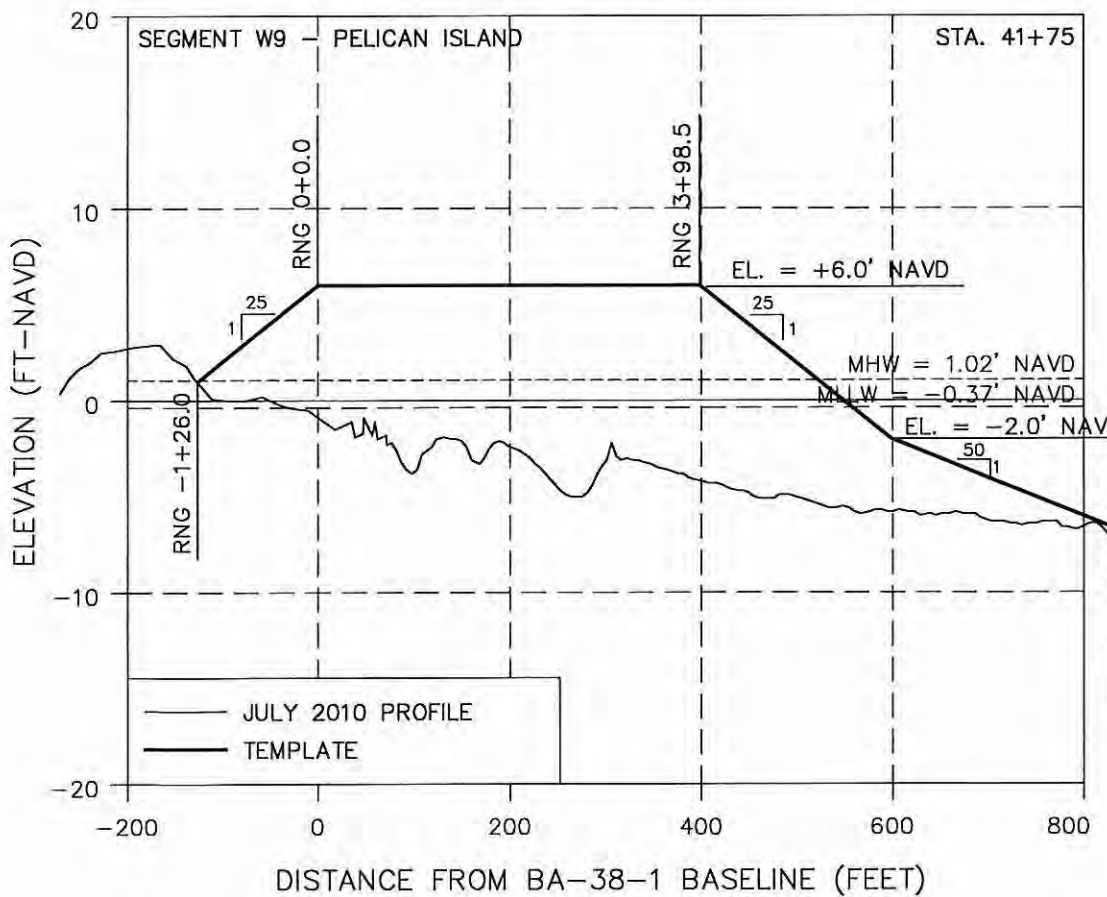
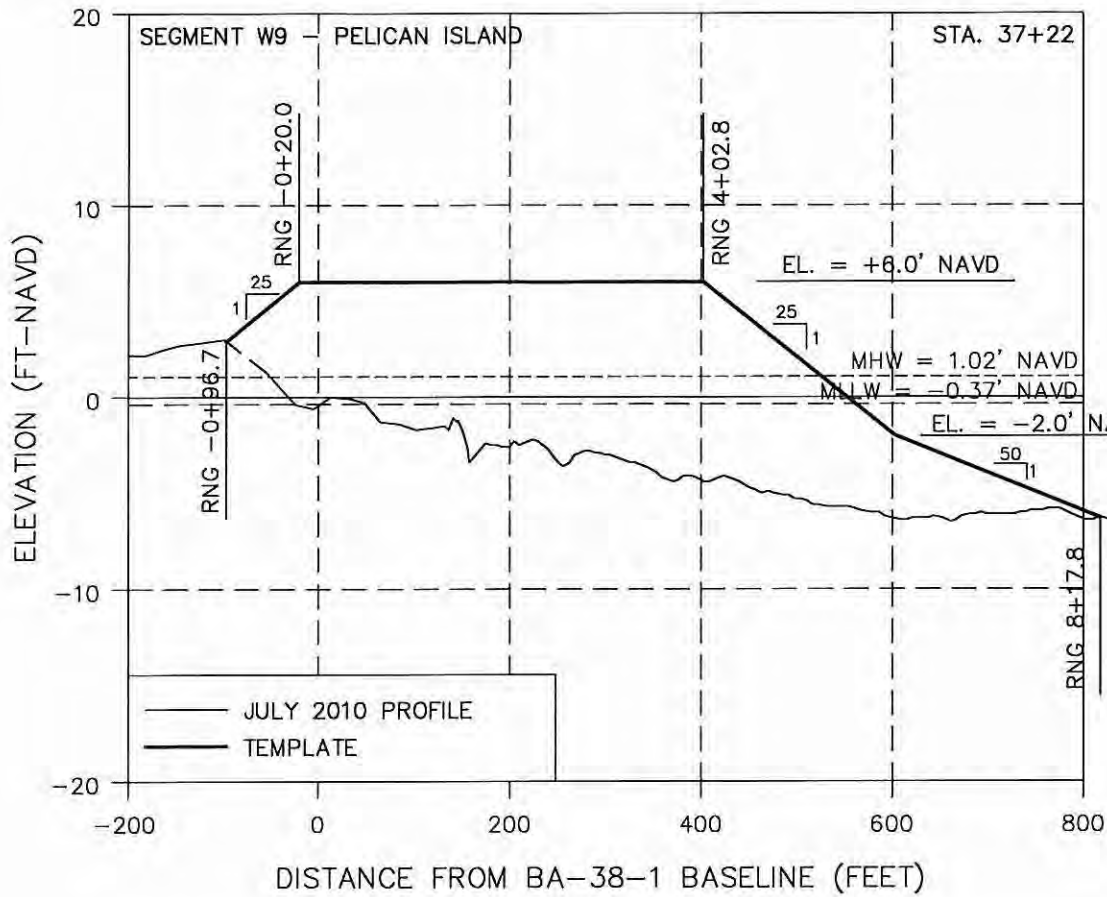
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
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450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
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BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 7 OF 18

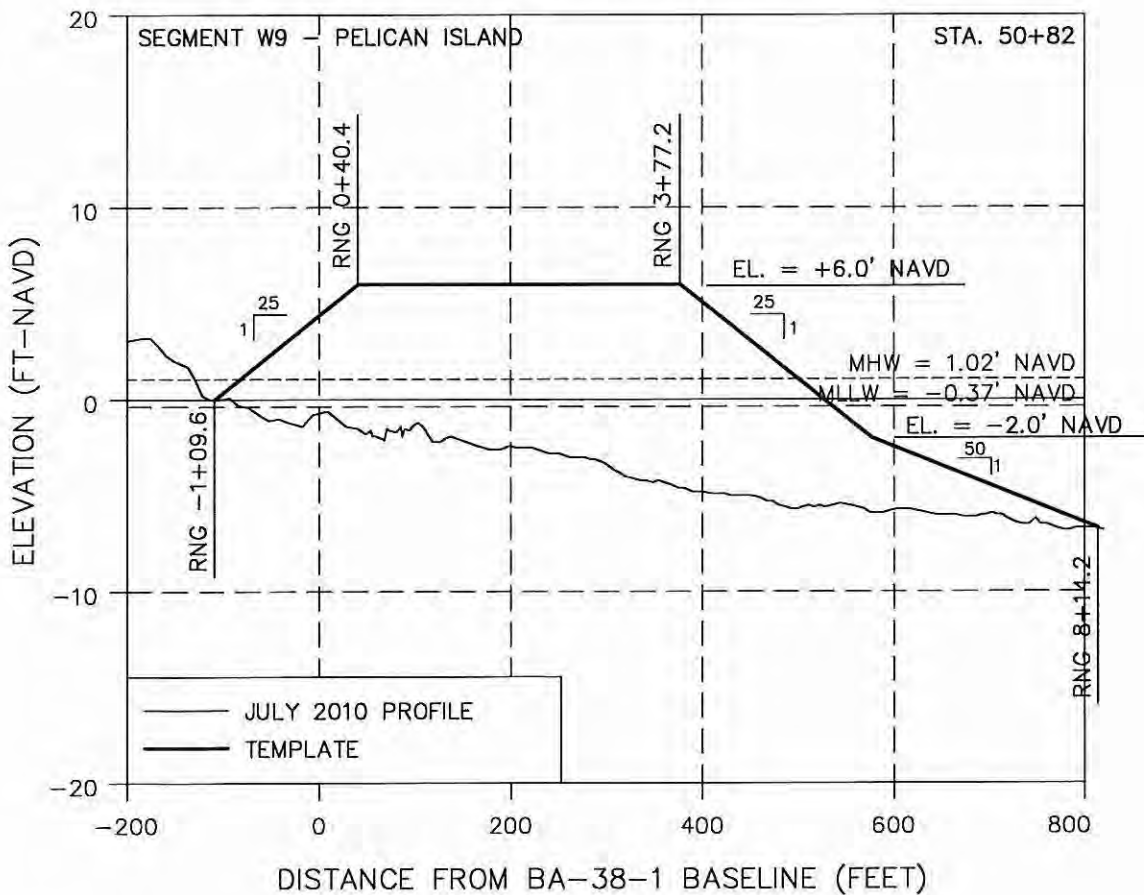
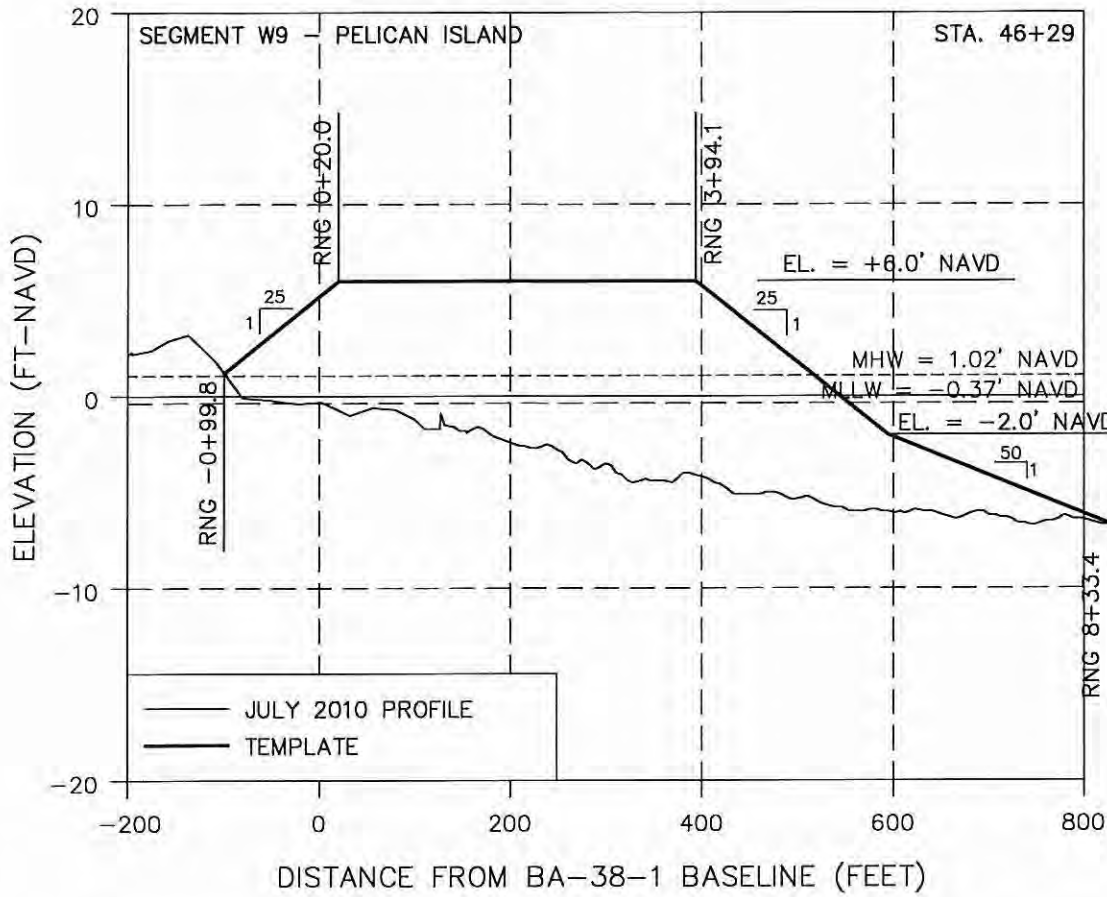
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SEGMENT W9  
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450 LAUREL STREET  
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DATE: 10/13/10

STATE PROJECT NUMBER:

SHEET 8 OF 18

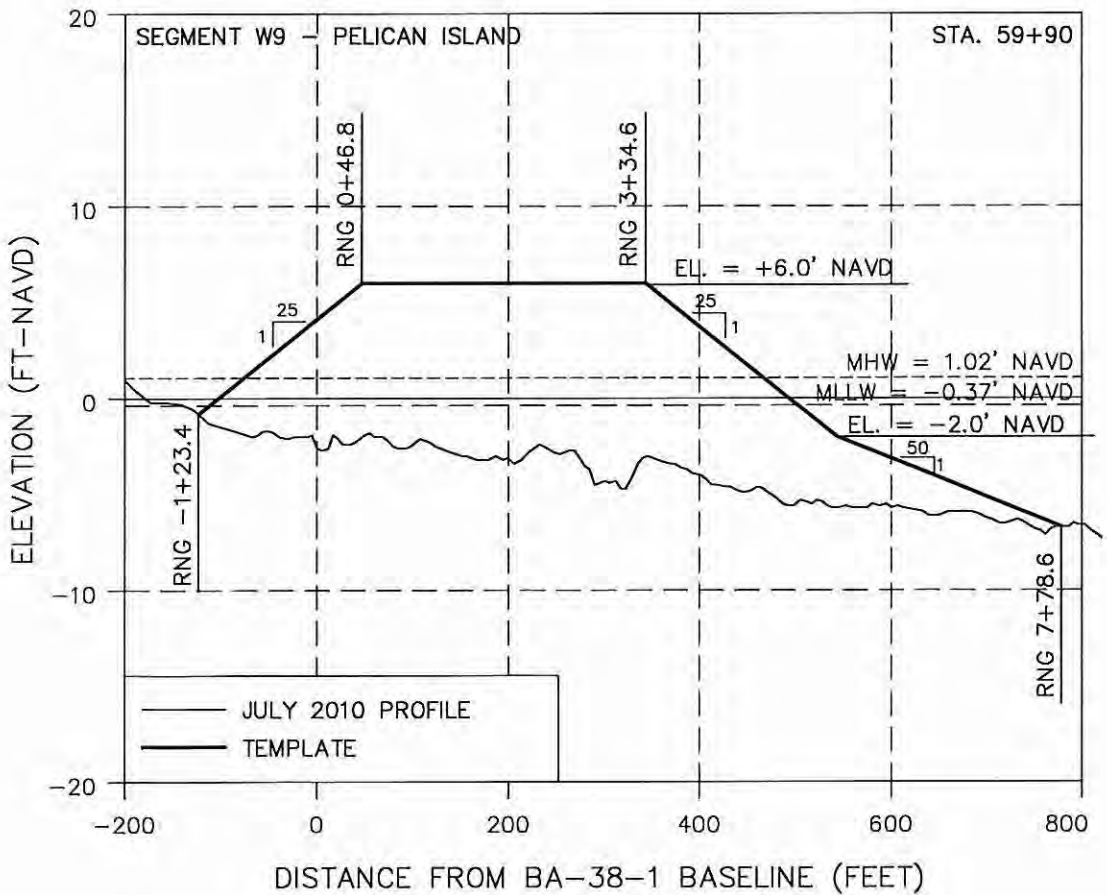
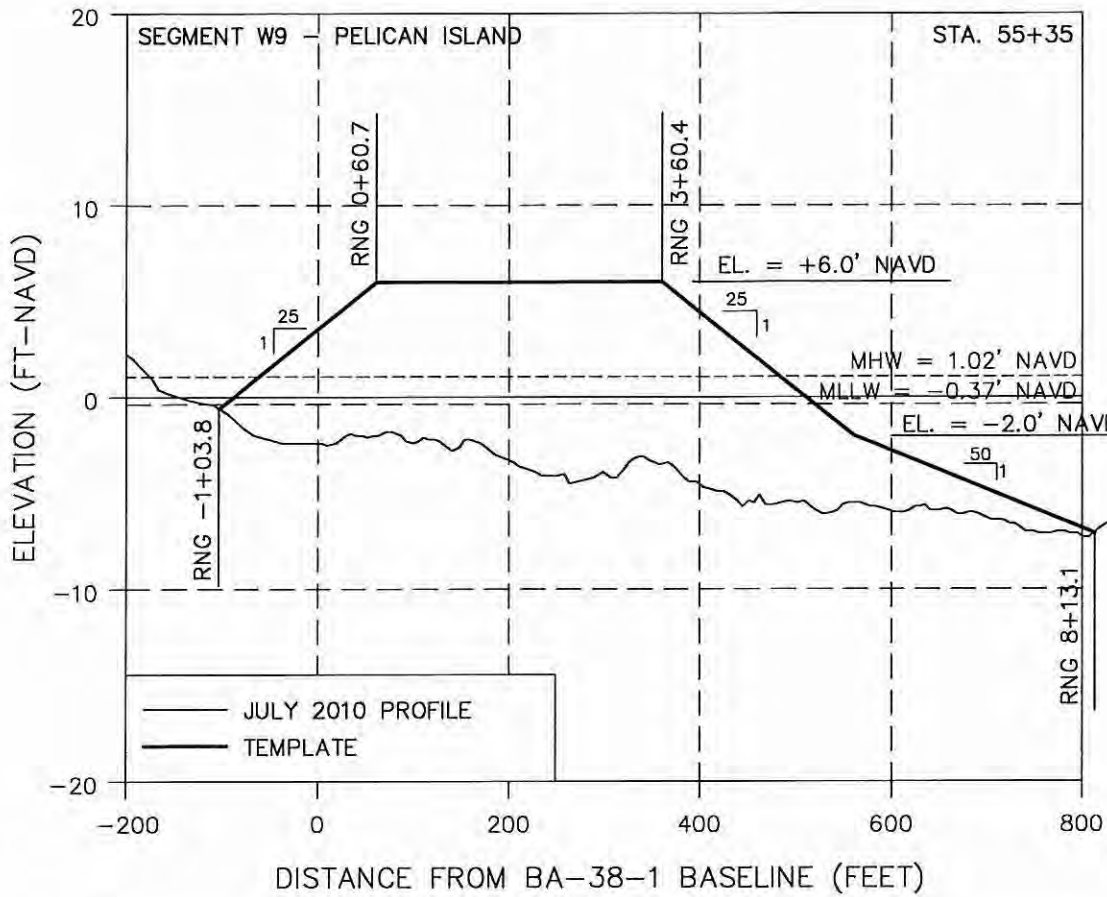
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APPROVED BY:

DESIGNED BY:

DRAWN BY:





SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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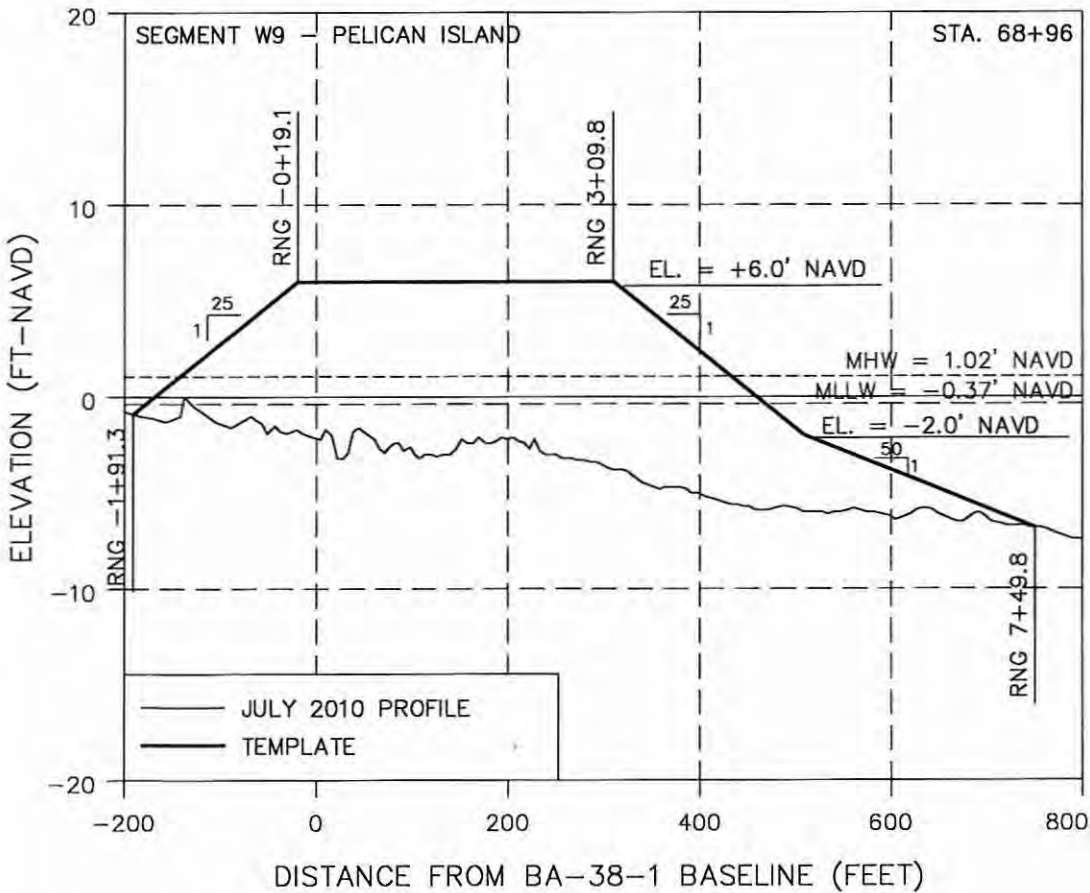
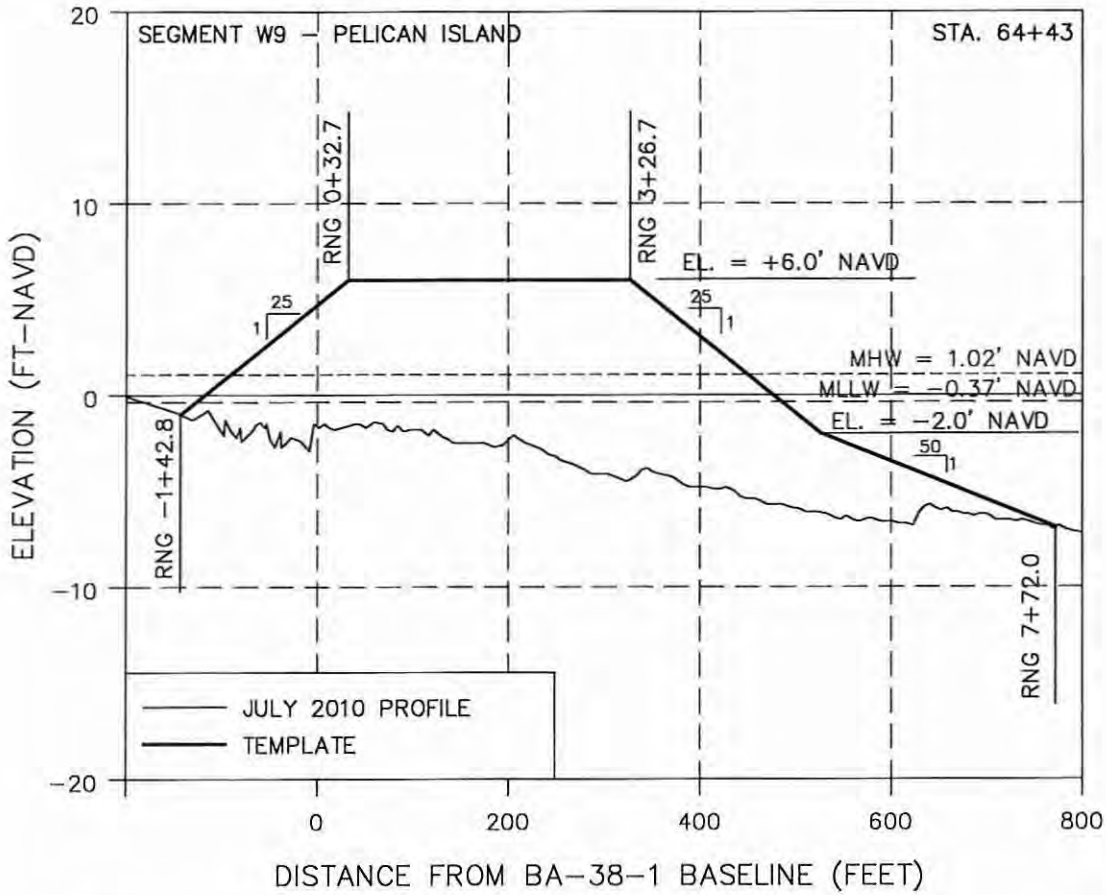
APPROVED BY:

DESIGNED BY:

DRAWN BY:

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FEDERAL PROJECT NUMBER:



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
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BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

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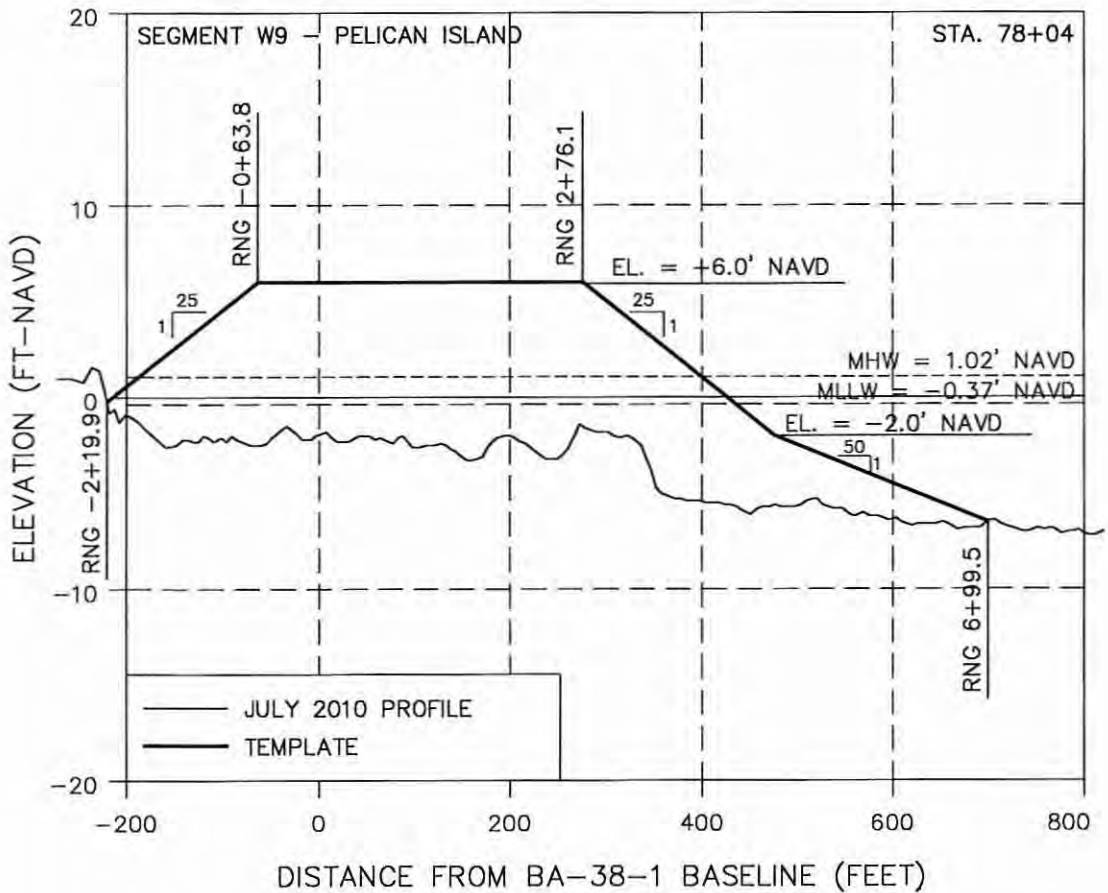
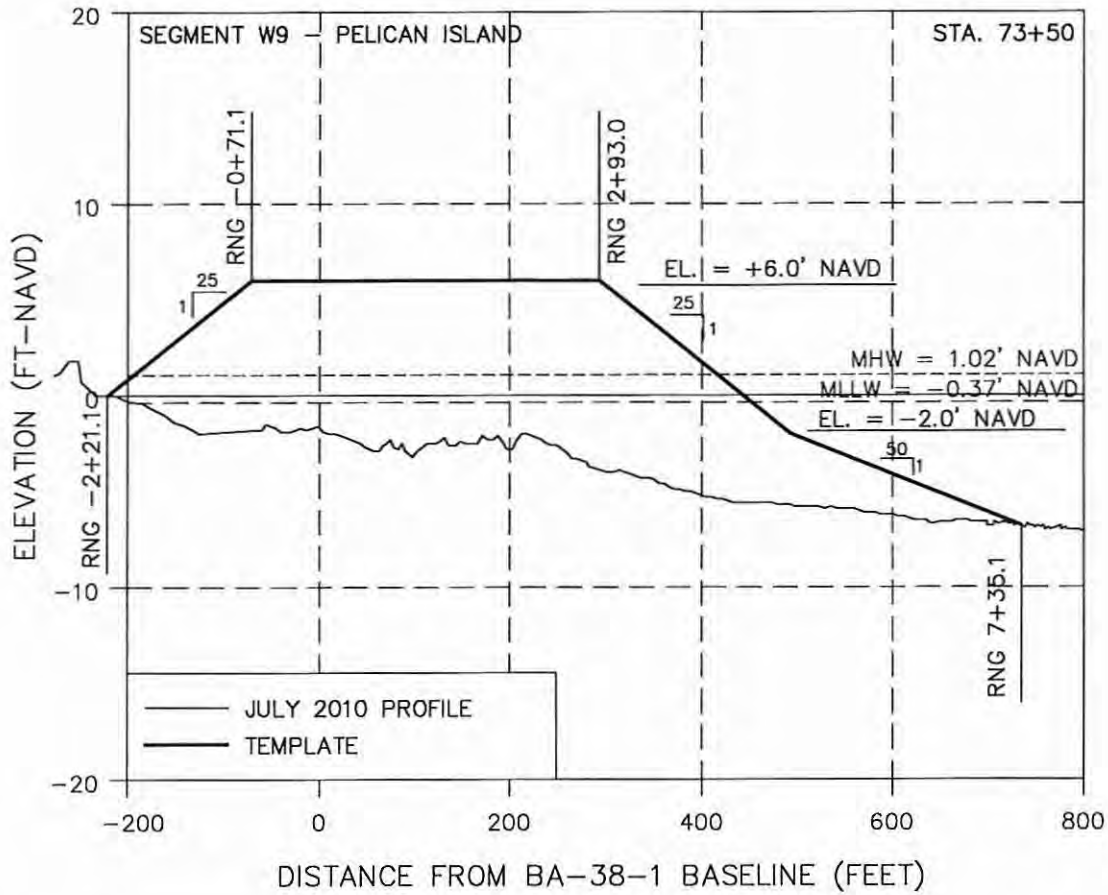
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DESIGNED BY:

DRAWN BY:

SHEET 10 OF 18

FEDERAL PROJECT NUMBER:



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
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BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

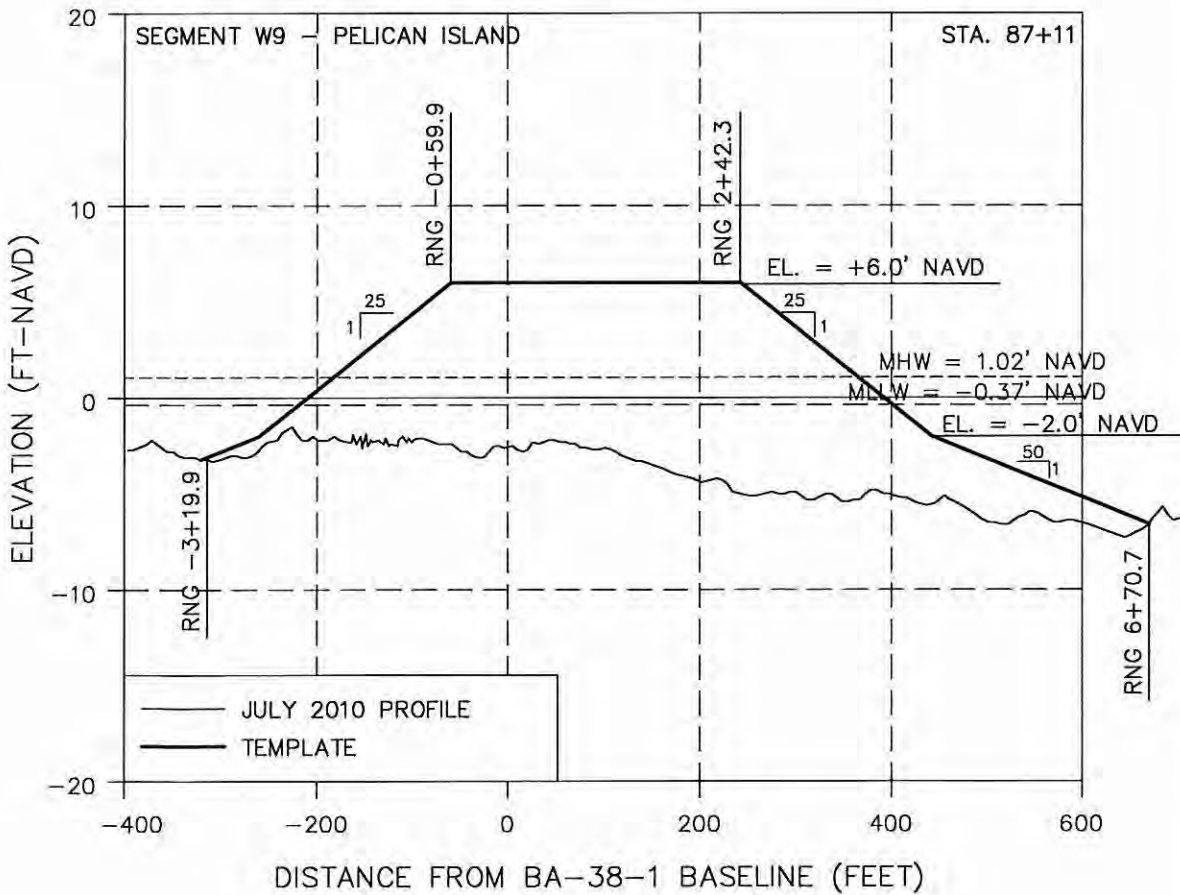
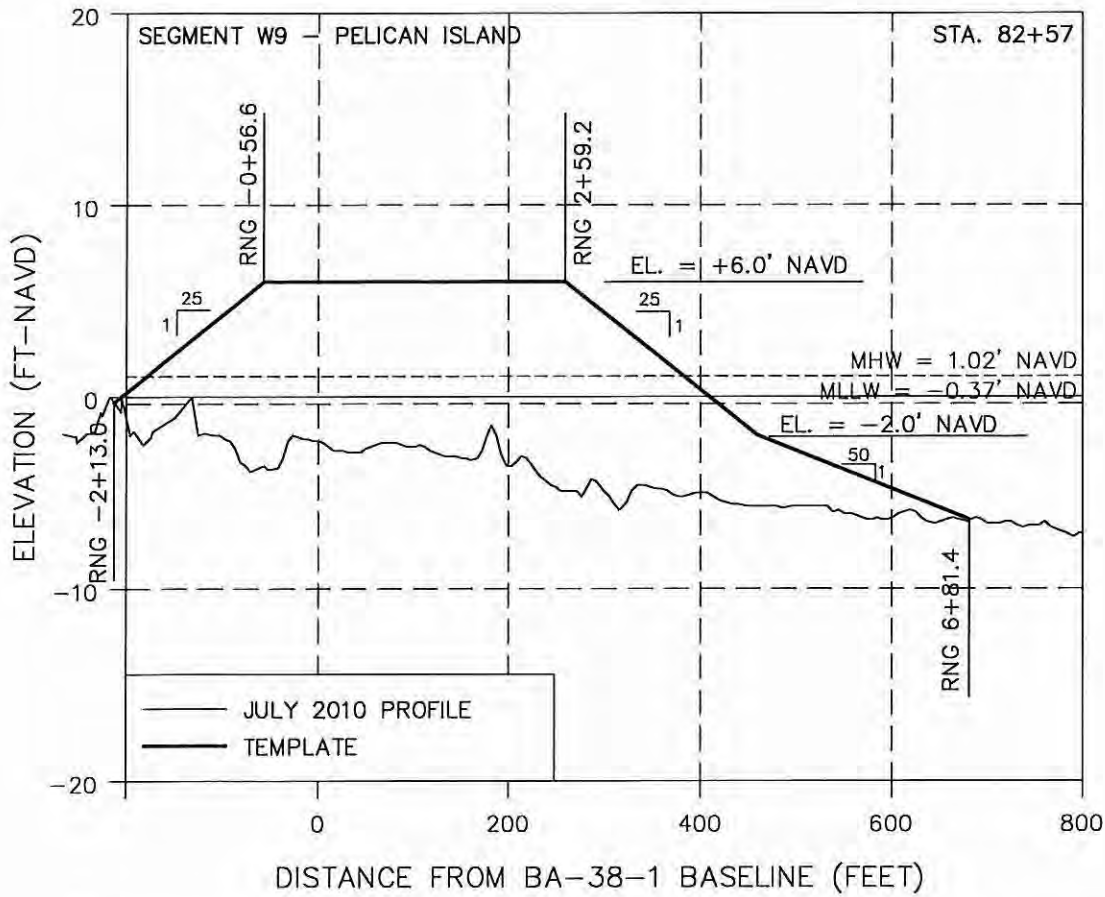
FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

SHEET 11 OF 18



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

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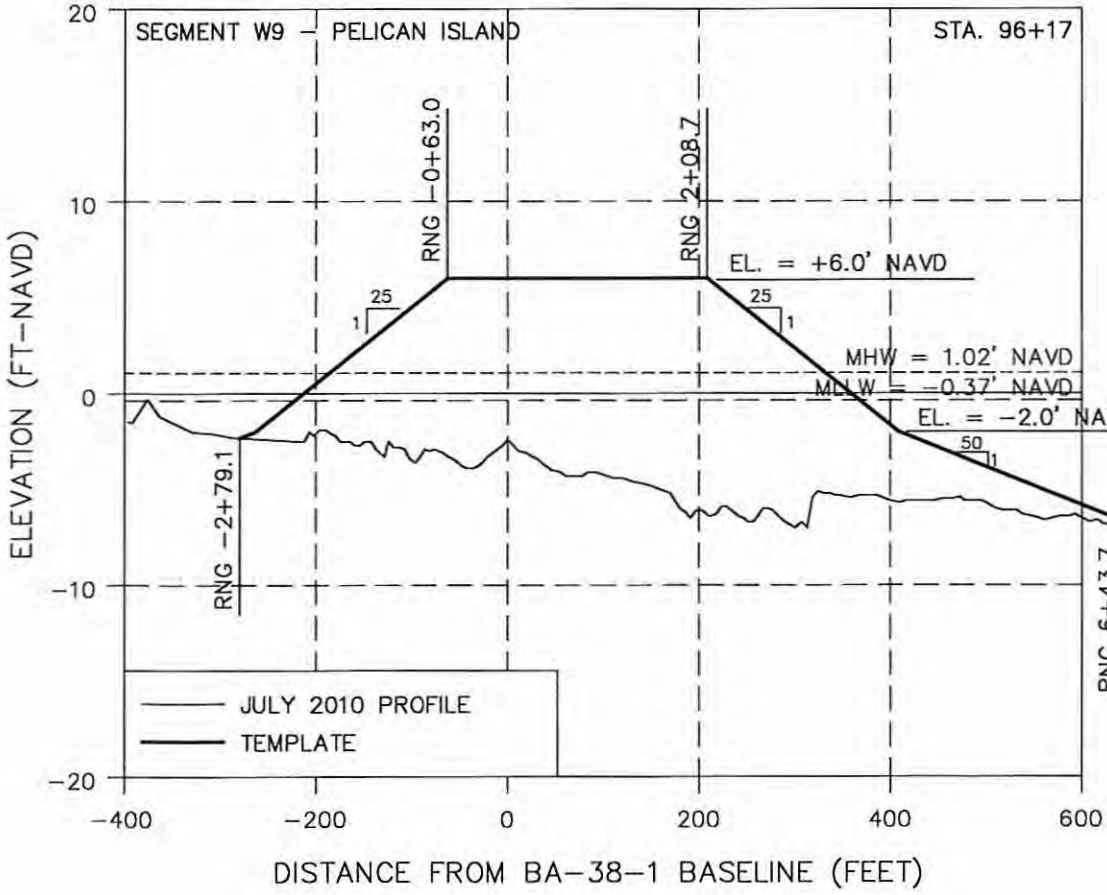
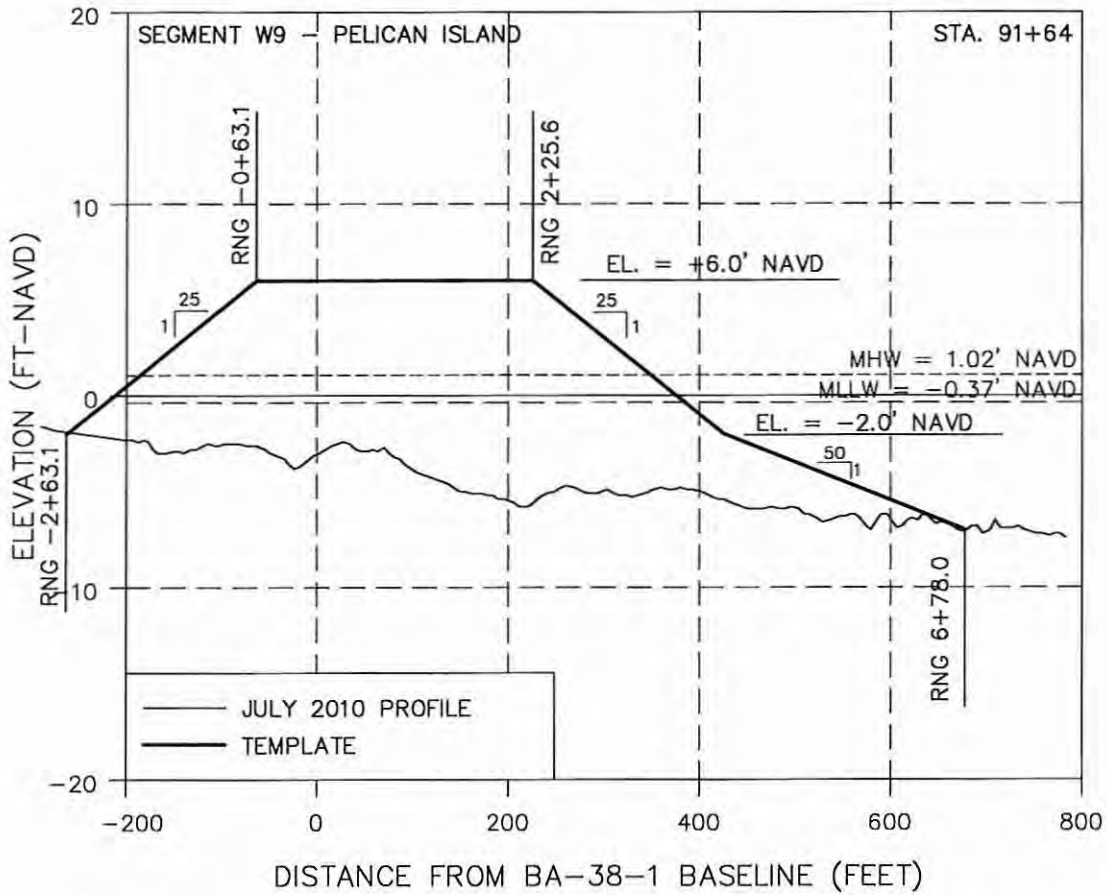
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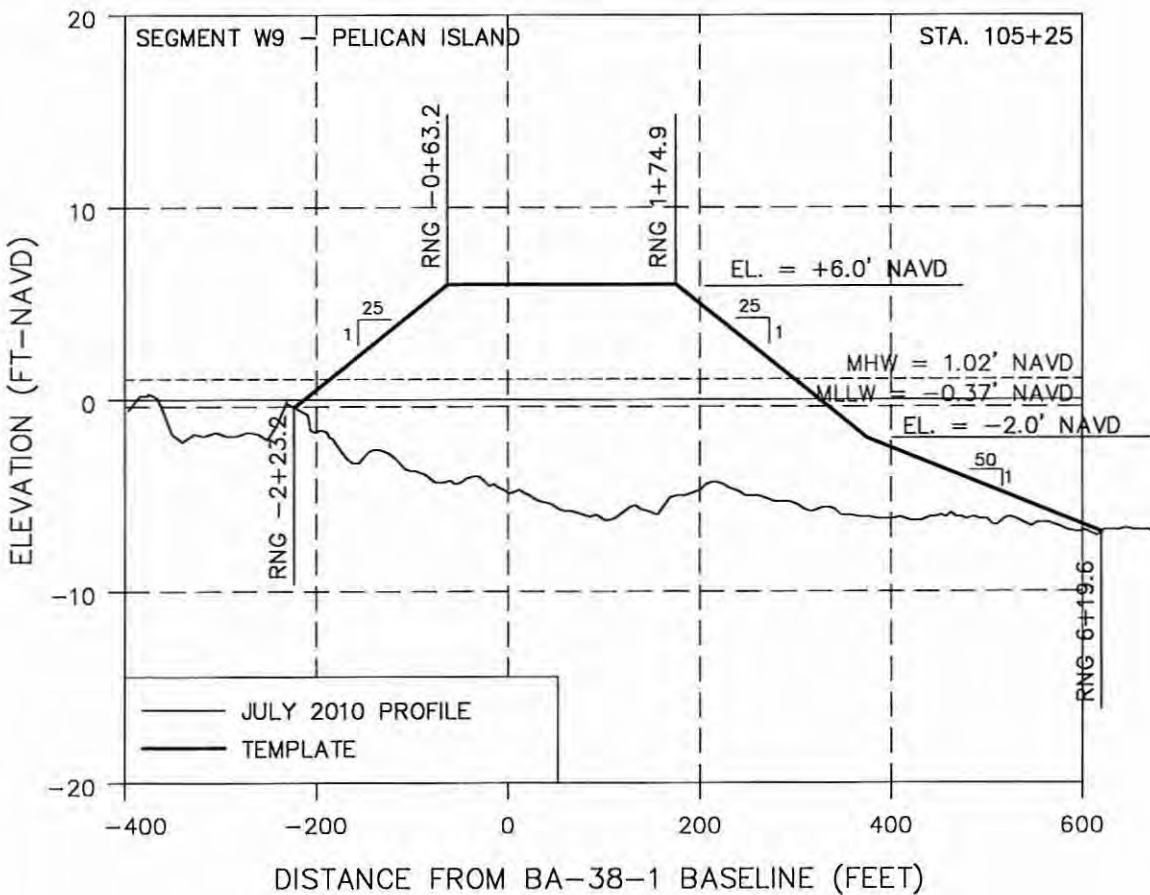
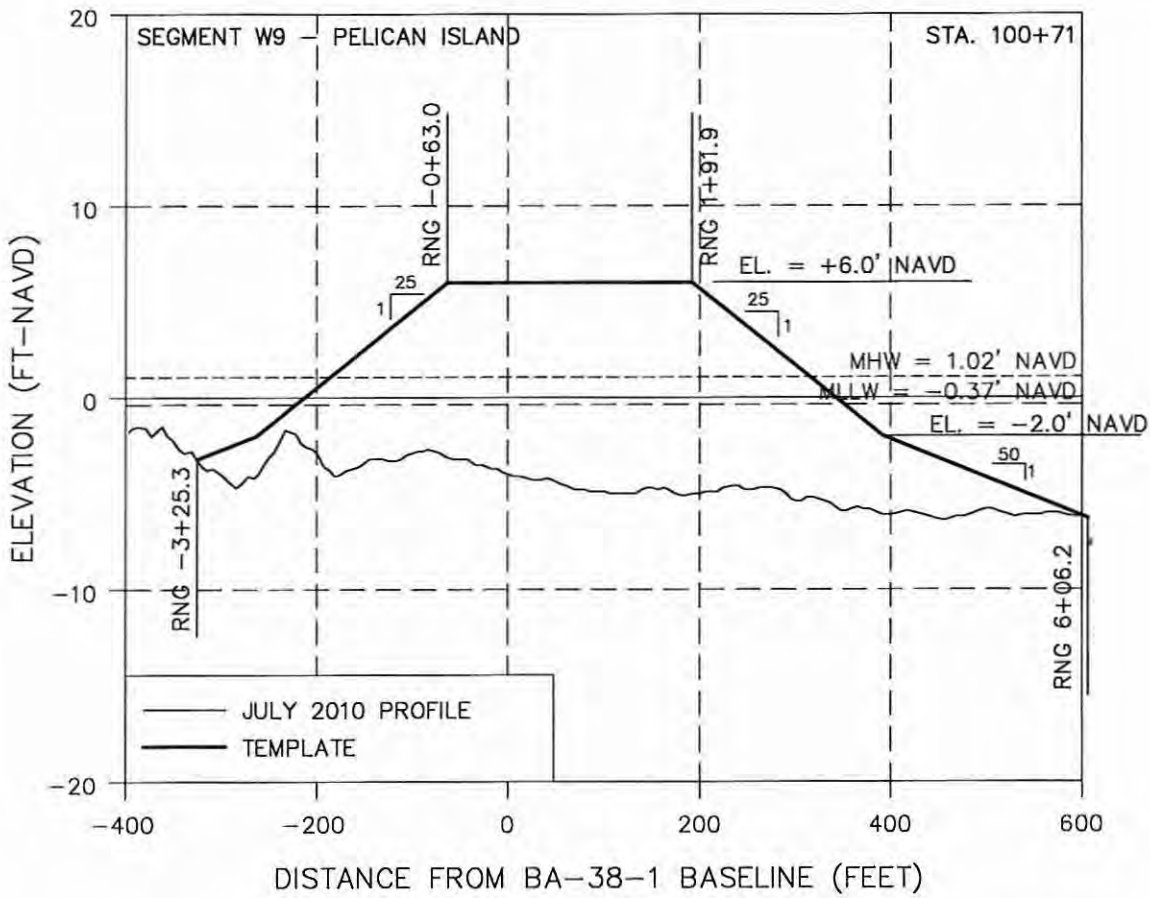
APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W9 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 13 OF 18	FEDERAL PROJECT NUMBER:	APPROVED BY:	



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

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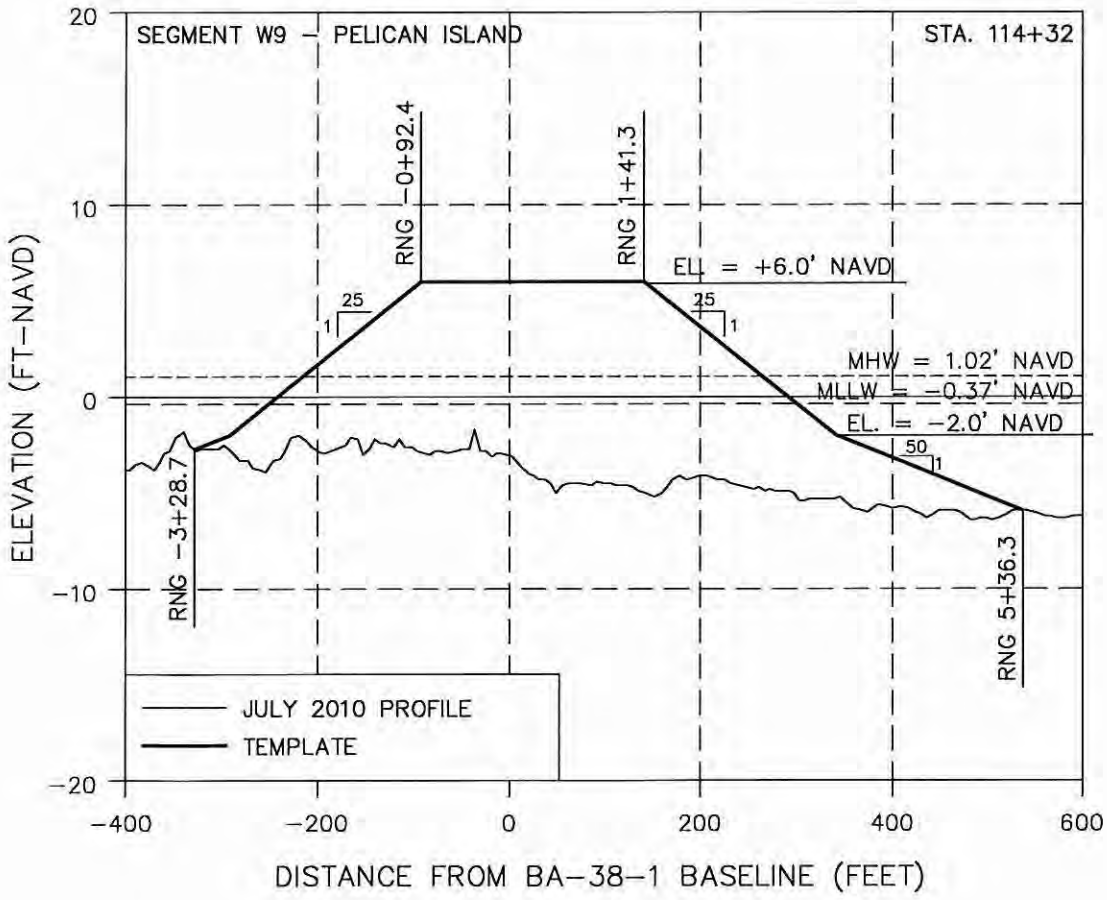
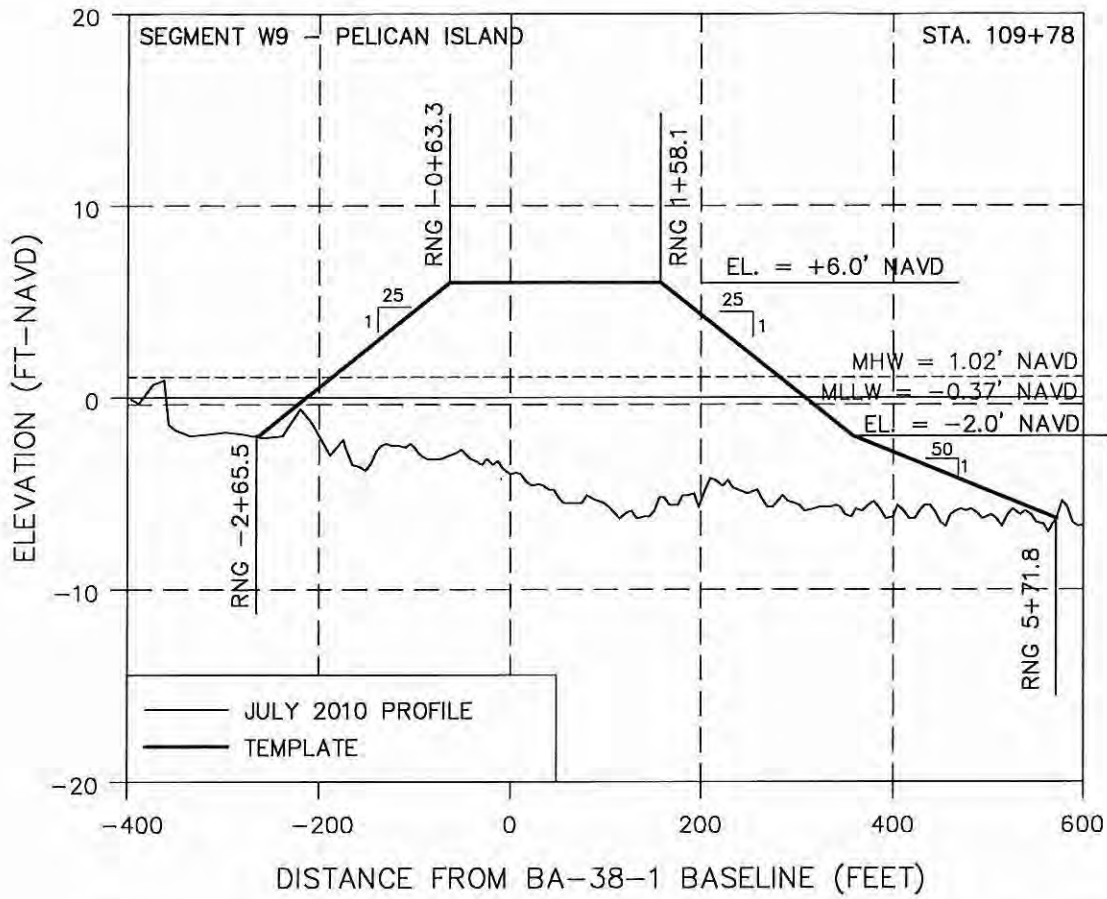
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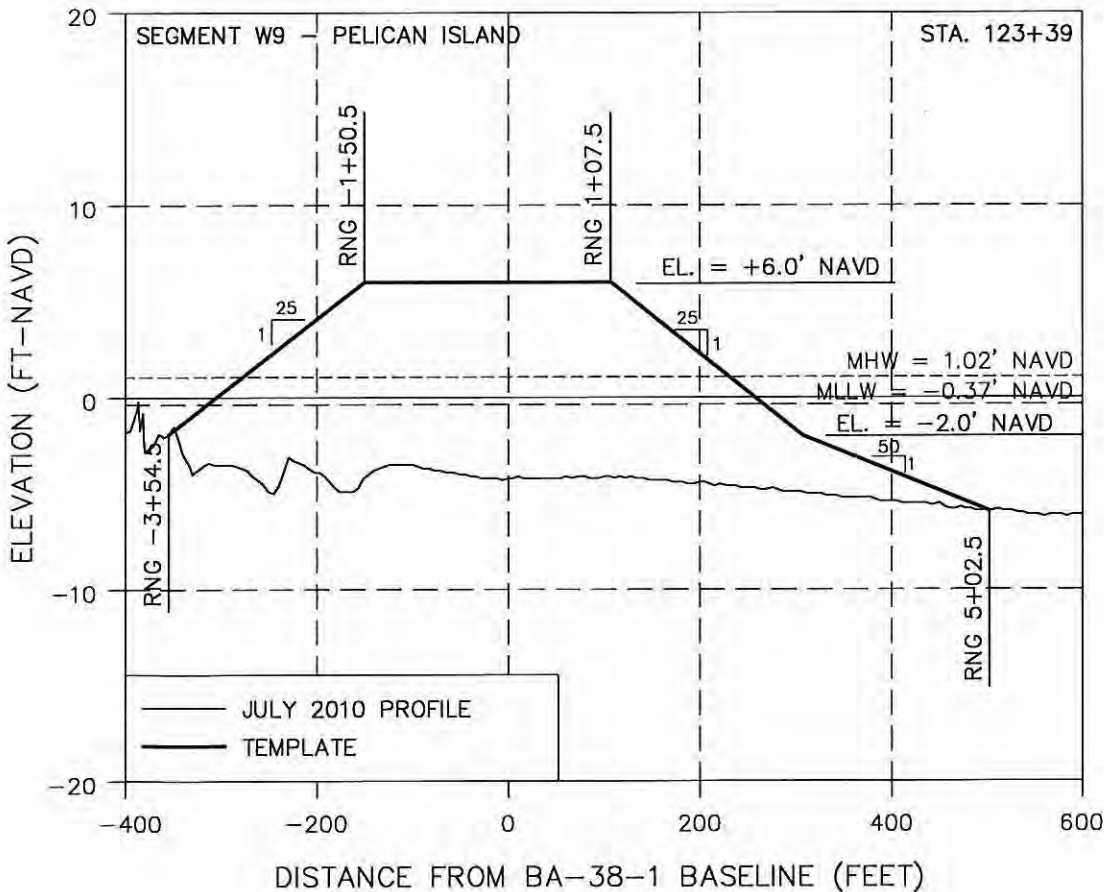
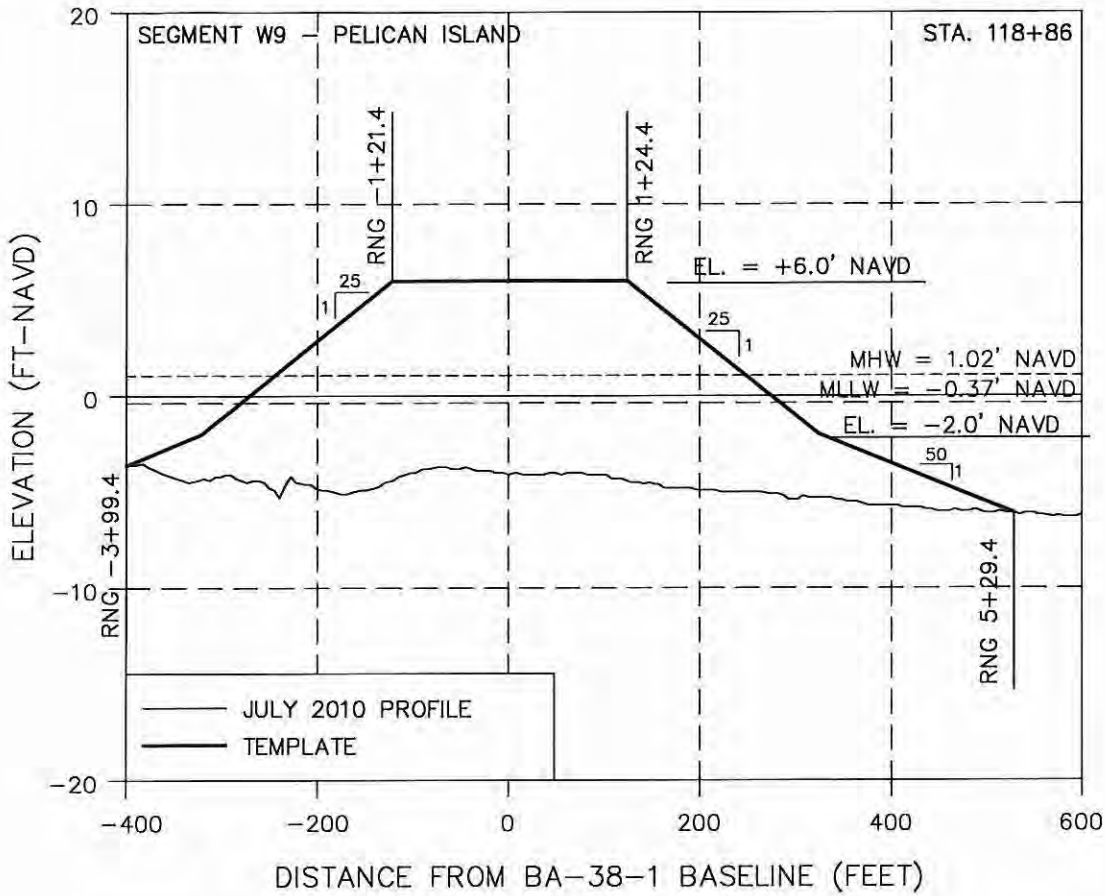
APPROVED BY:

DESIGNED BY:

DRAWN BY:



<p>SEGMENT W9 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
<p>SHEET 15 OF 18</p>	<p>FEDERAL PROJECT NUMBER:</p>	<p>APPROVED BY:</p>	<p></p>



SEGMENT W9  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

APPROVED BY:

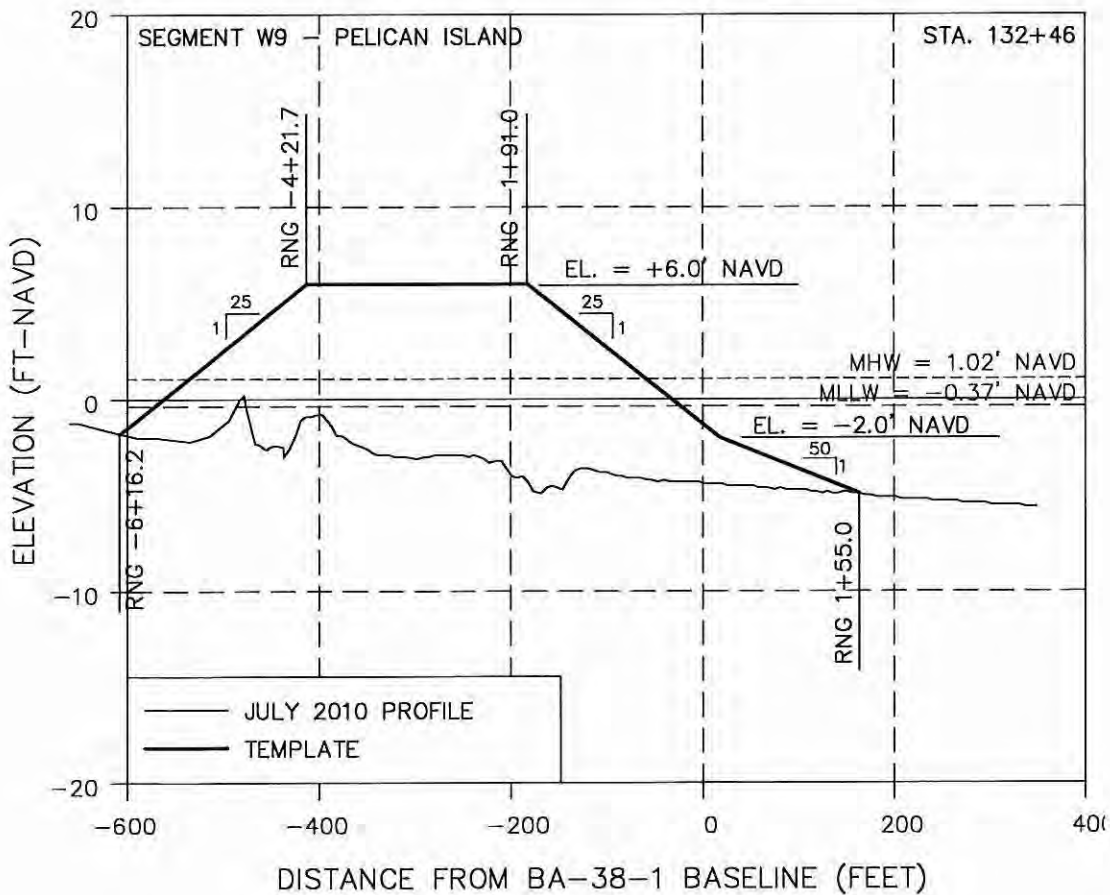
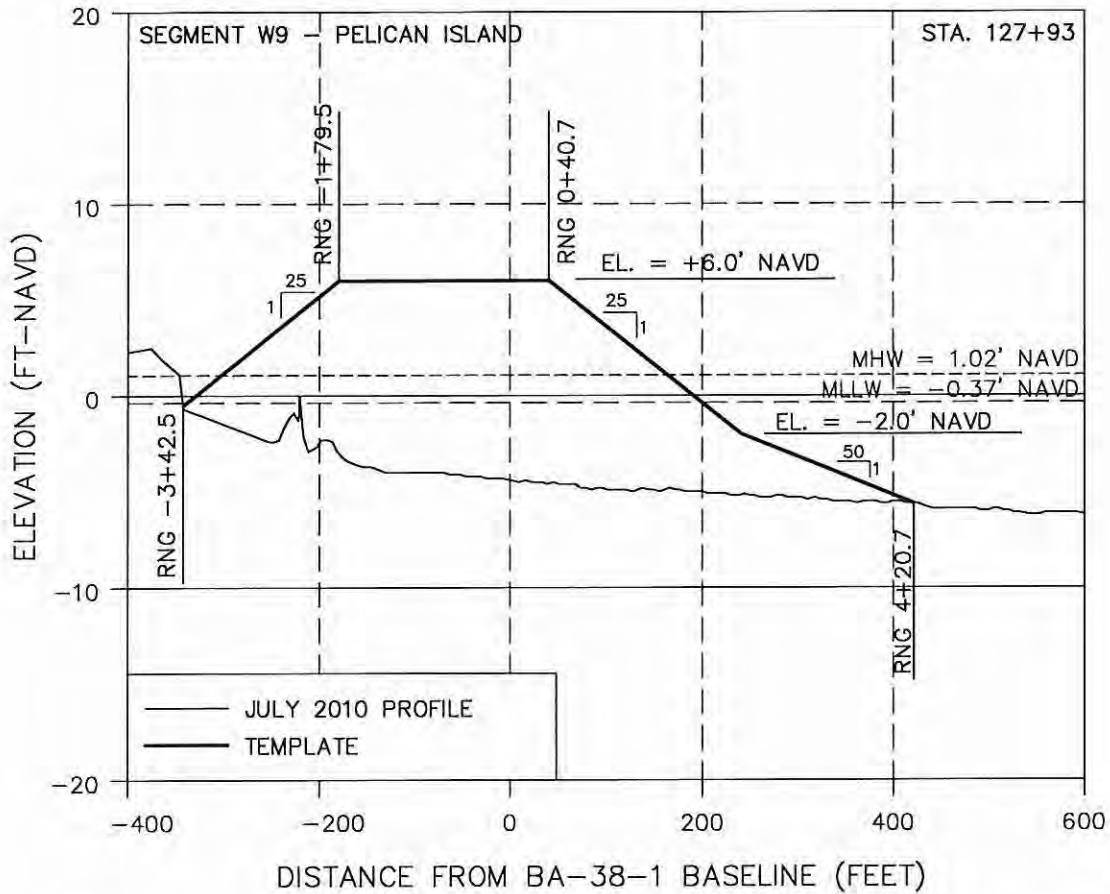
SHEET 16 OF 18

FEDERAL PROJECT NUMBER:

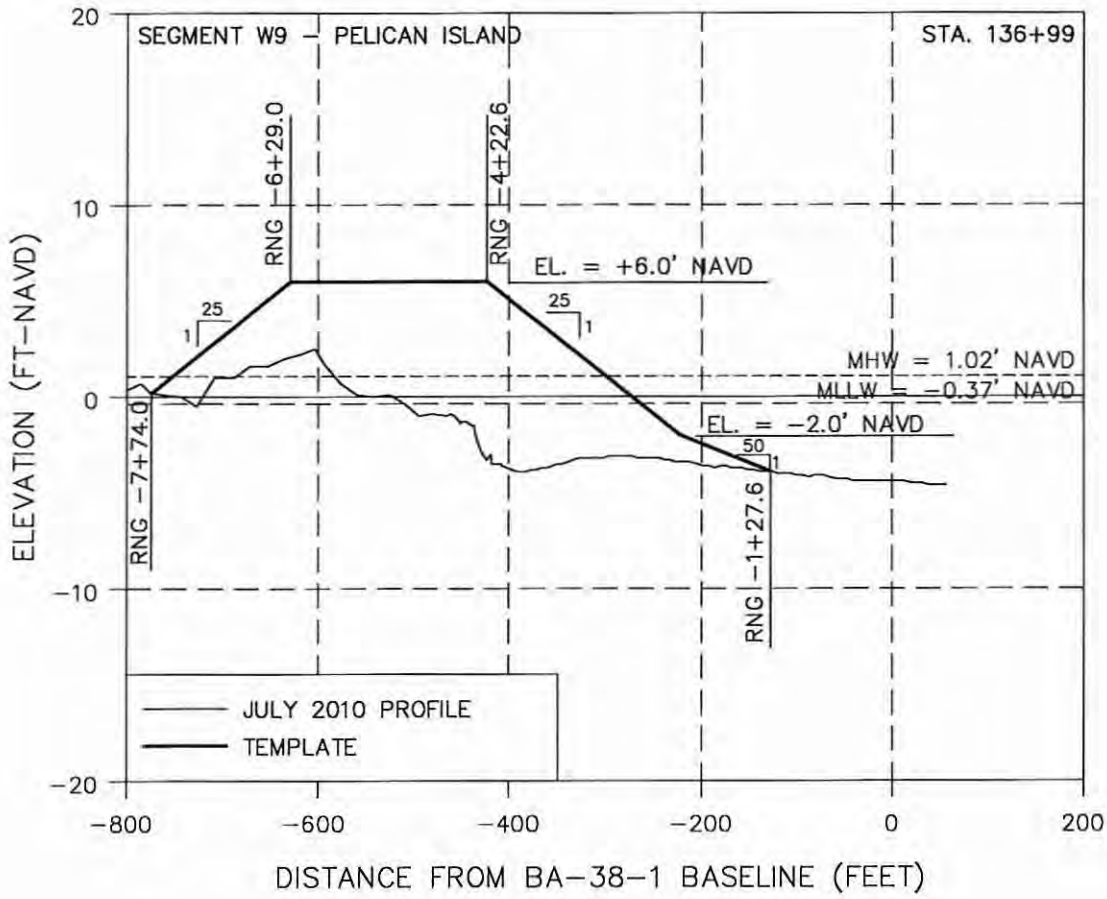
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DRAWN BY:





SEGMENT W9 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:	DRAWN BY:
SHEET 17 OF 18			



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE  STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	SEGMENT W9 PROFILES
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 10/13/10 SHEET 18 OF 18

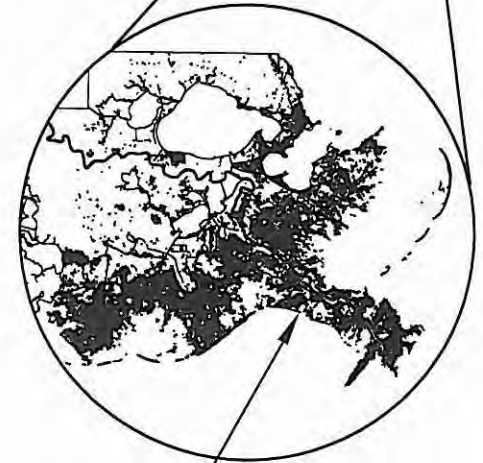
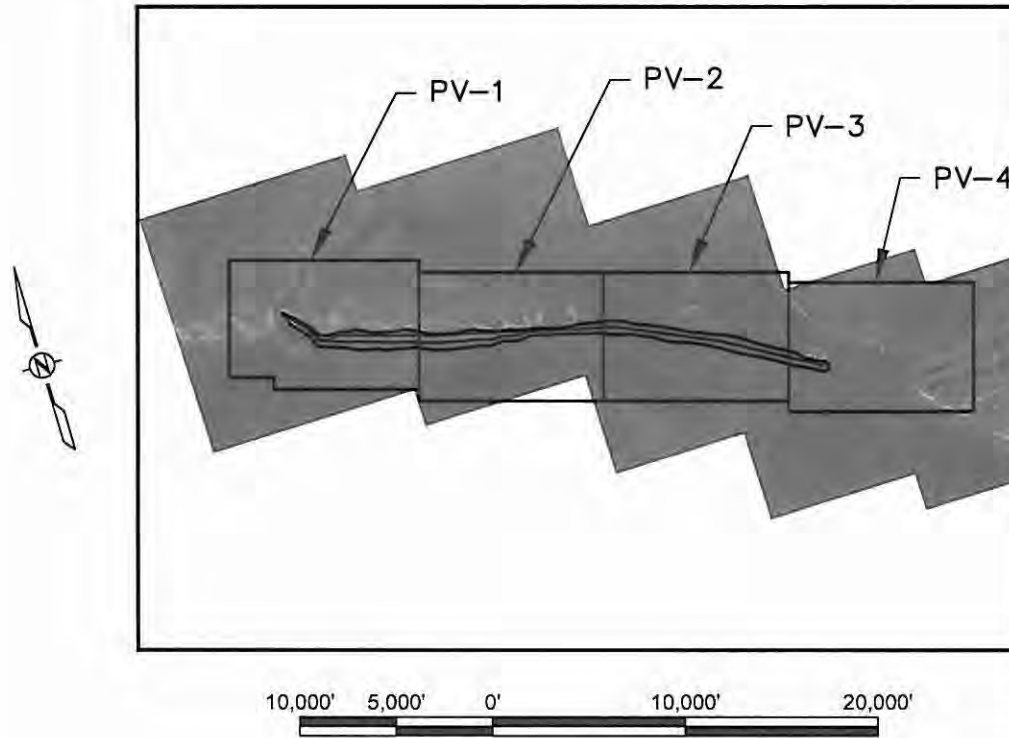
INDEX TO SHEETS

SHEET NO.    DESCRIPTION

- 1     TITLE SHEET
- 2-5   PLAN VIEWS
- 6-34   PROFILES

STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH

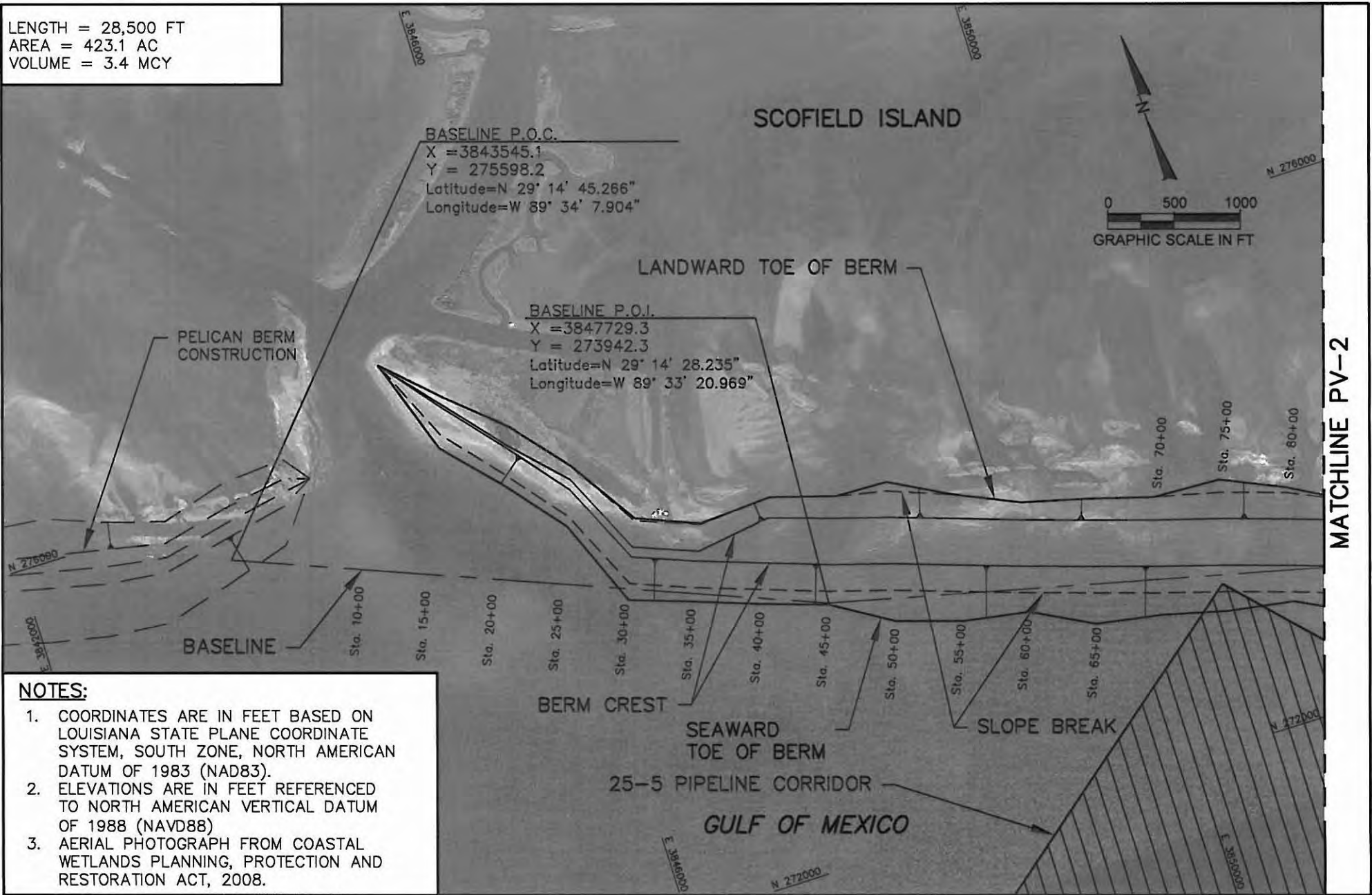
**SEGMENT W10  
SCOFIELD ISLAND**



PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 TITLE SHEET
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 10/13/10
		FEDERAL PROJECT NUMBER:	SHEET 1 OF 34

LENGTH = 28,500 FT  
 AREA = 423.1 AC  
 VOLUME = 3.4 MCY

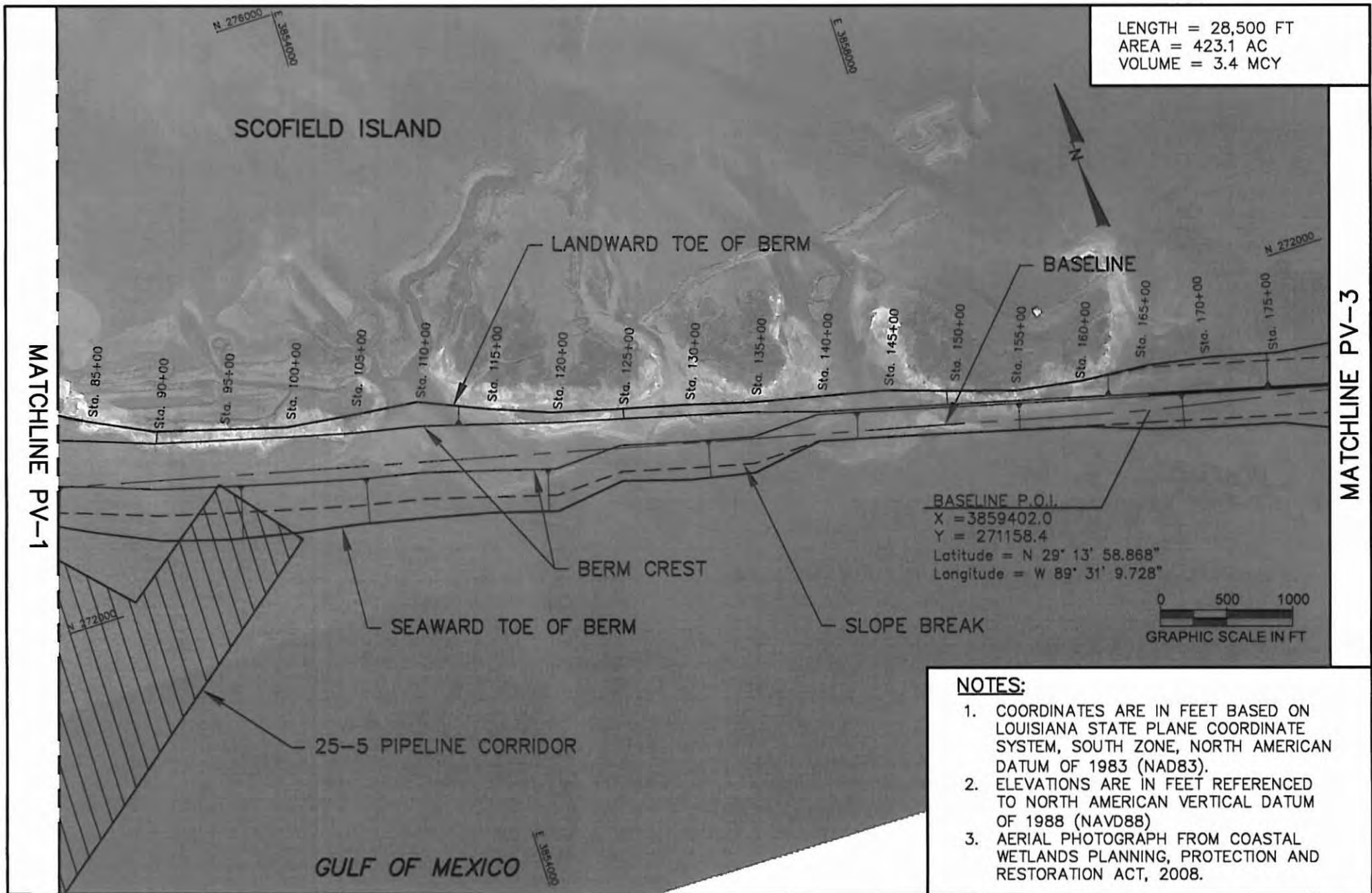


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 Y = 275598.2  
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 Longitude=W 89° 34' 7.904"

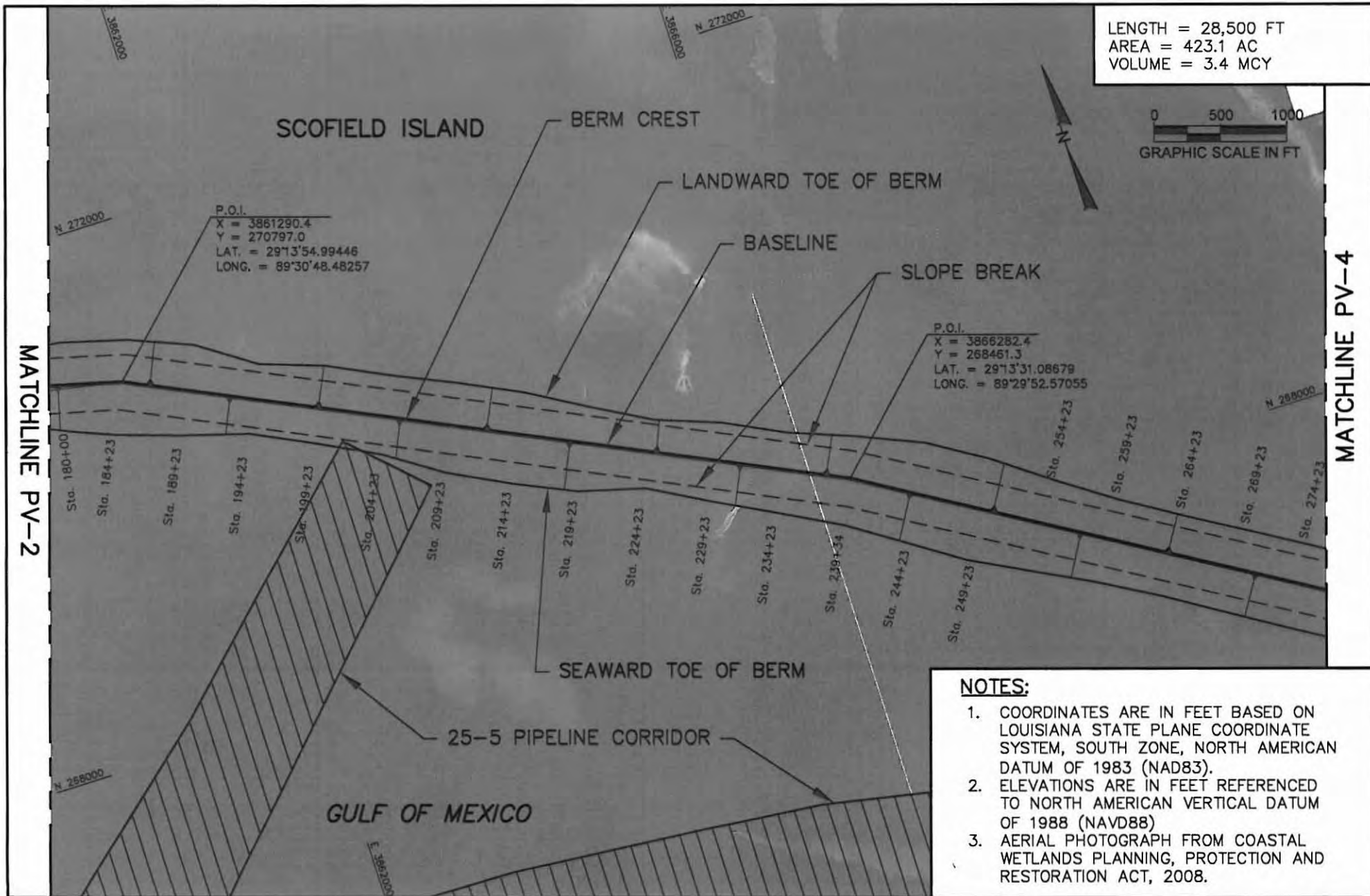
**BASELINE P.O.I.**  
 X = 3847729.3  
 Y = 273942.3  
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- NOTES:**
1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
  2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  3. AERIAL PHOTOGRAPH FROM COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT, 2008.

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION          ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PLAN VIEW	
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:	DATE: 10/13/10  SHEET 2 OF 34



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	<b>OFFICE OF COASTAL PROTECTION &amp; RESTORATION</b> <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 10/13/10
		STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
		SHEET 3 OF 34	



**NOTES:**

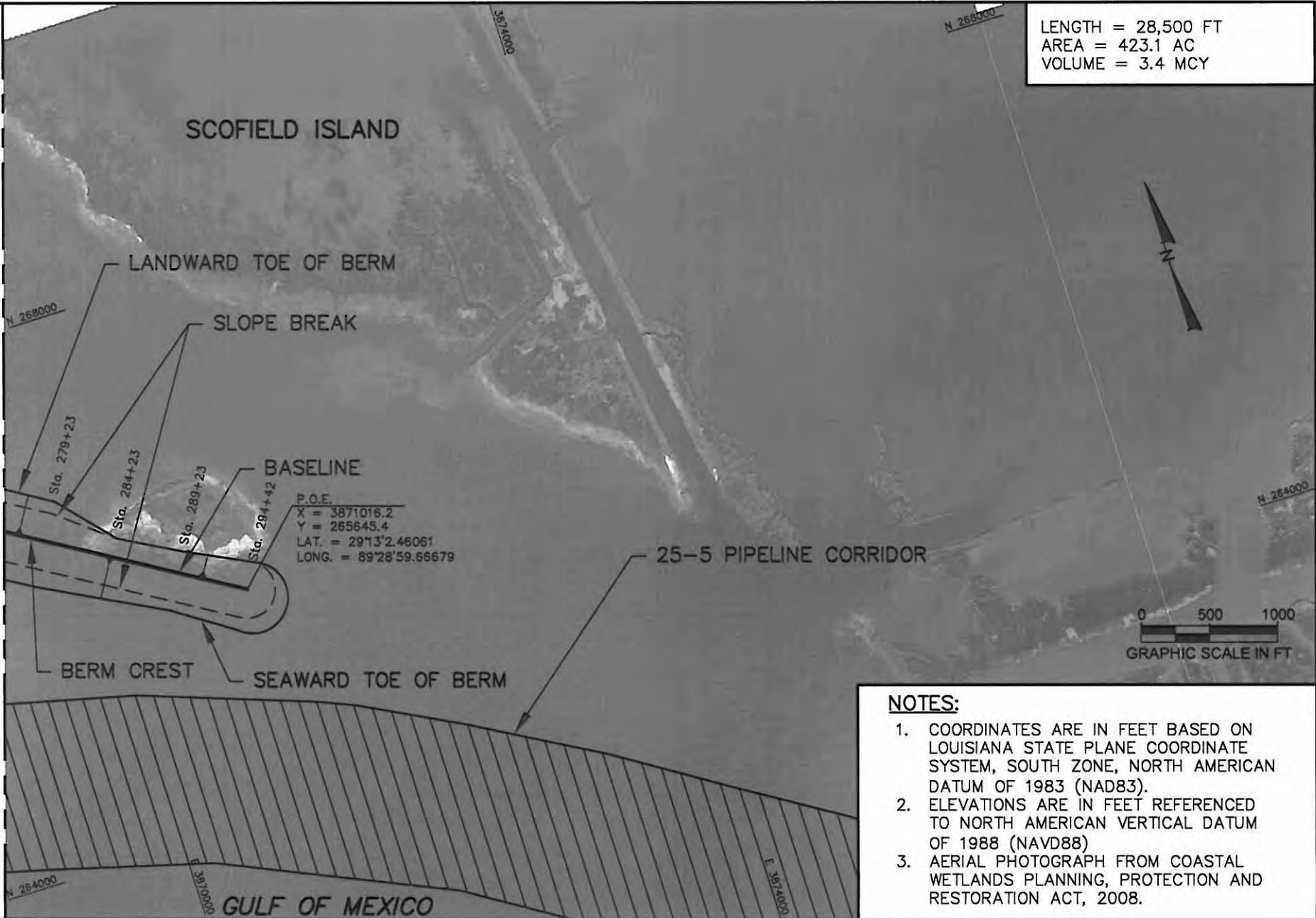
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		BARRIER ISLAND DEFENSE		SEGMENT W10 PLAN VIEW	
DRAWN BY:		DESIGNED BY:		STATE PROJECT NUMBER:		DATE: 10/13/10	
APPROVED BY:		FEDERAL PROJECT NUMBER:		SHEET 4 OF 34			

LENGTH = 28,500 FT  
 AREA = 423.1 AC  
 VOLUME = 3.4 MCY

SCOFIELD ISLAND

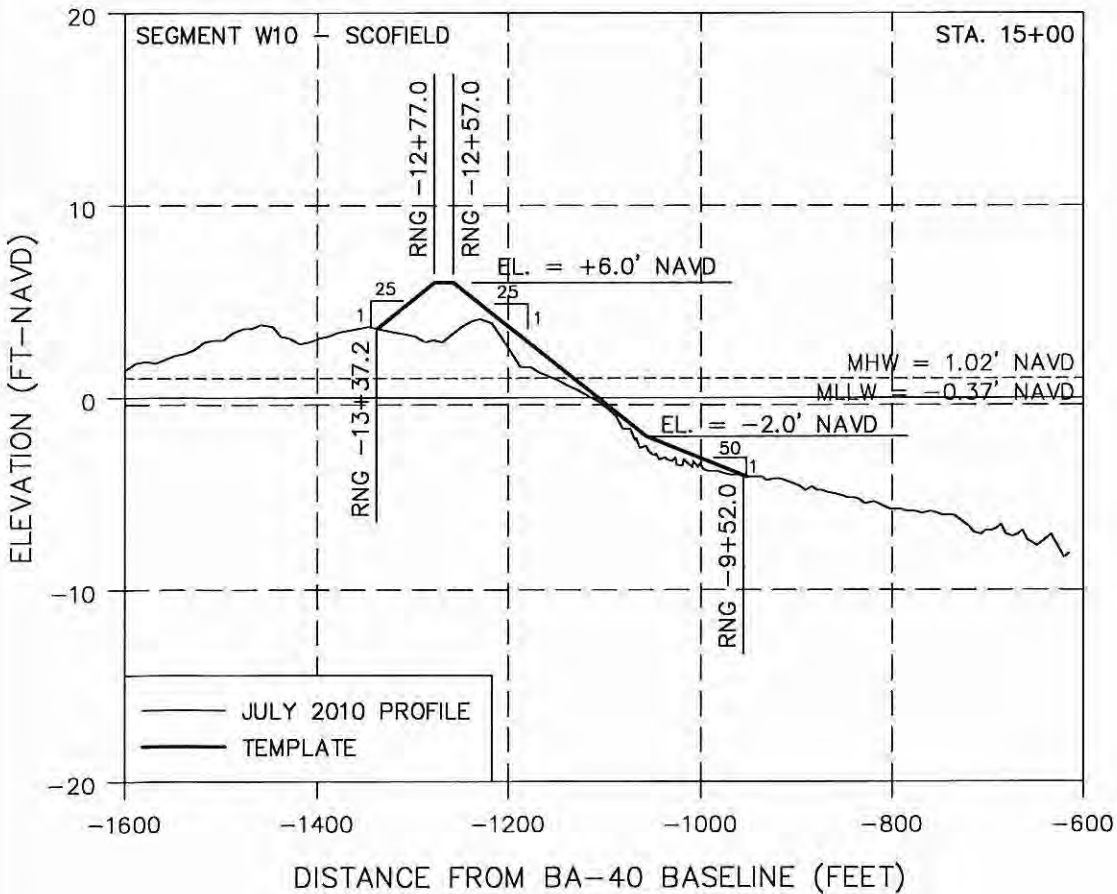
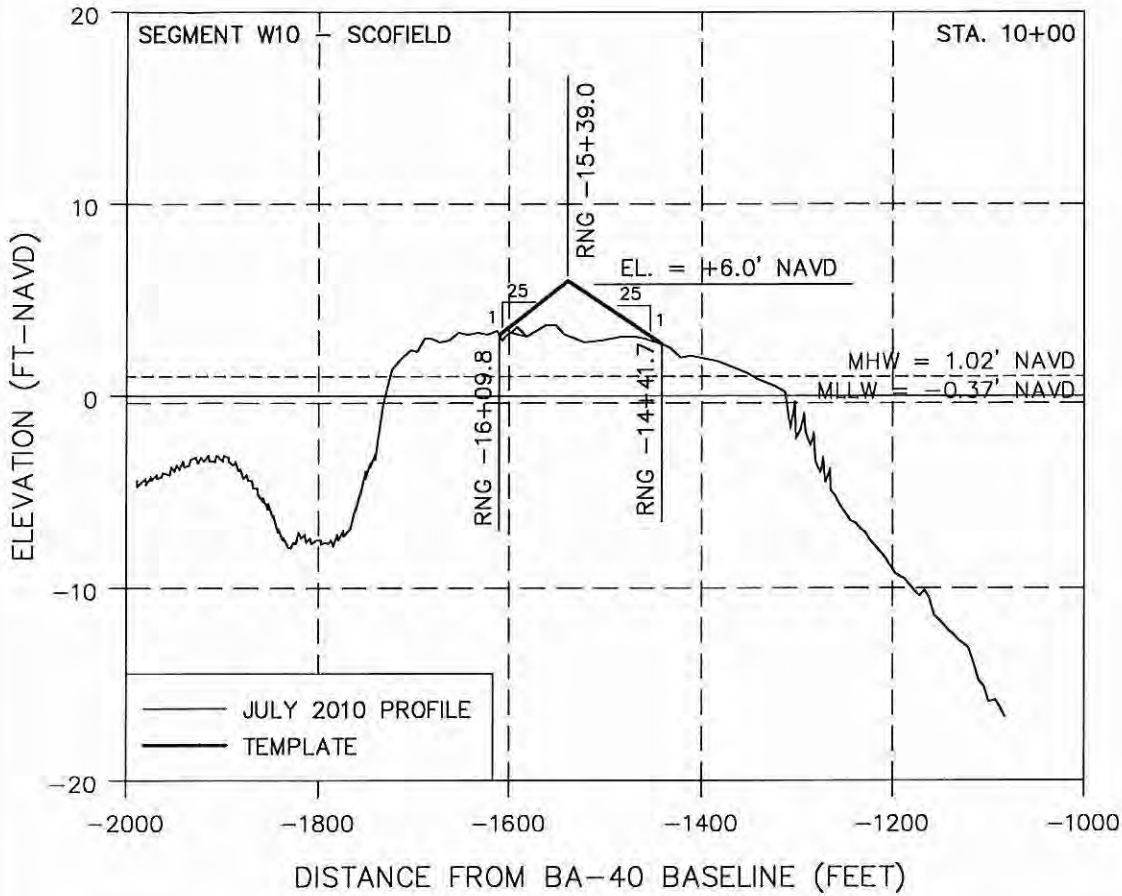
MATCHLINE PV-3



**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W10 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER:  FEDERAL PROJECT NUMBER:
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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

SHEET 6 OF 34

STATE PROJECT NUMBER:

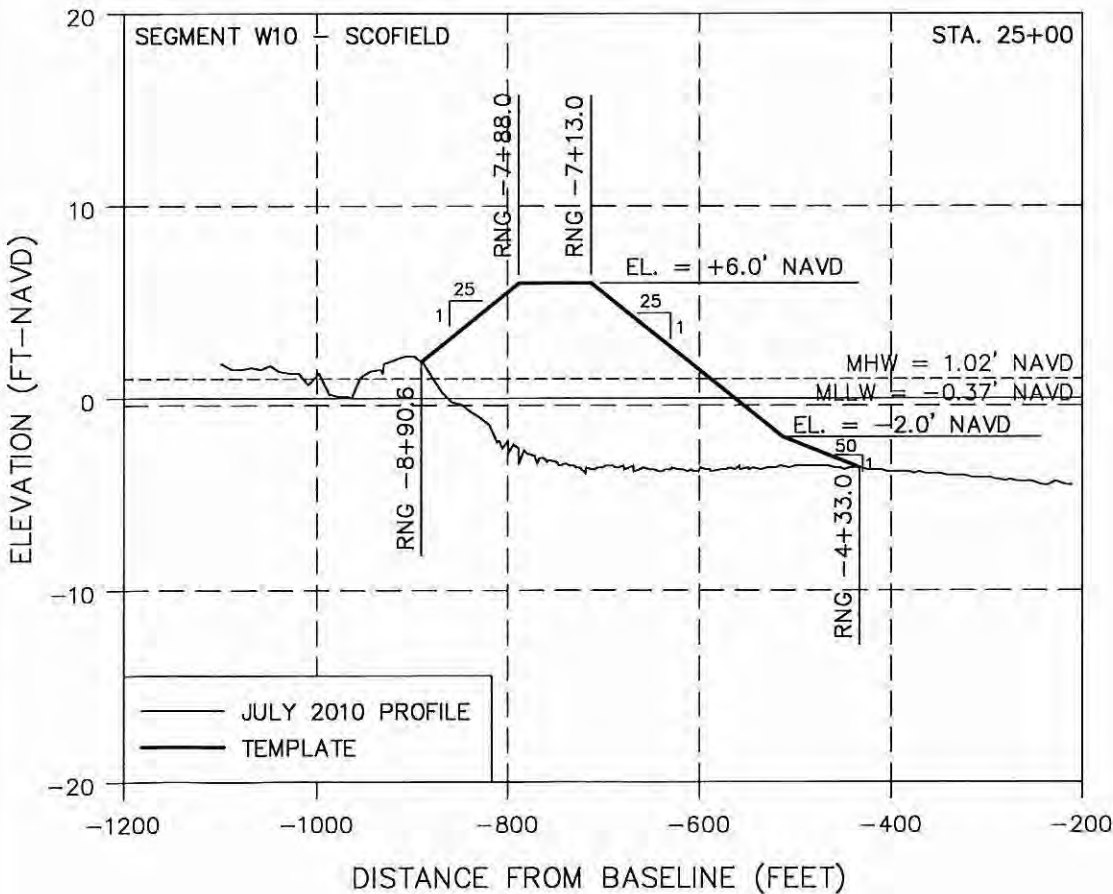
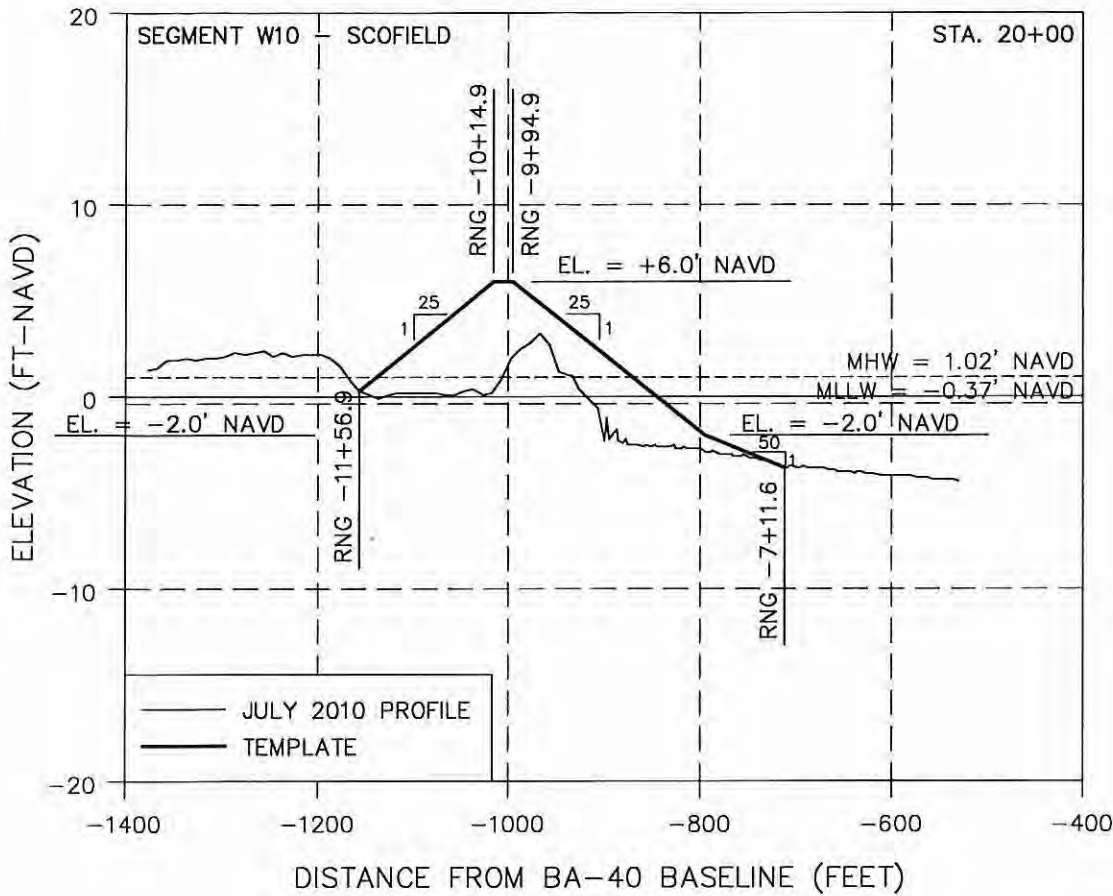
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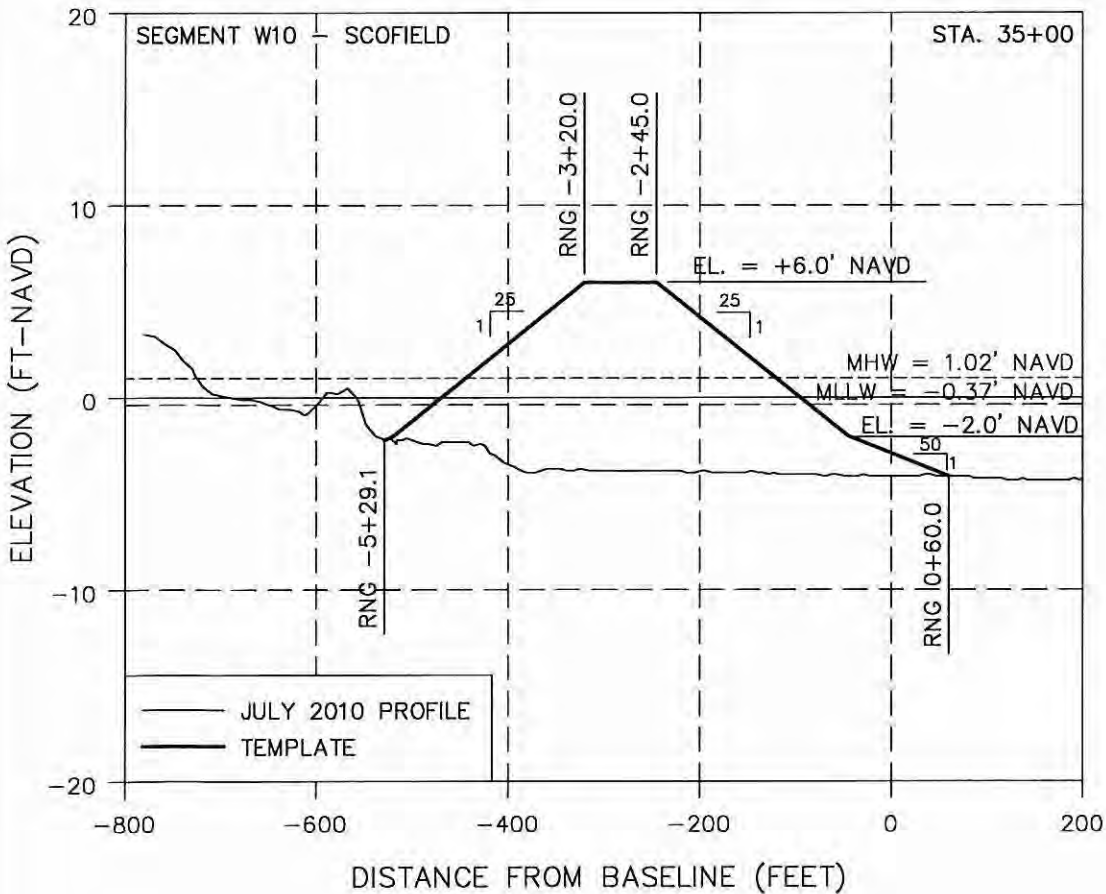
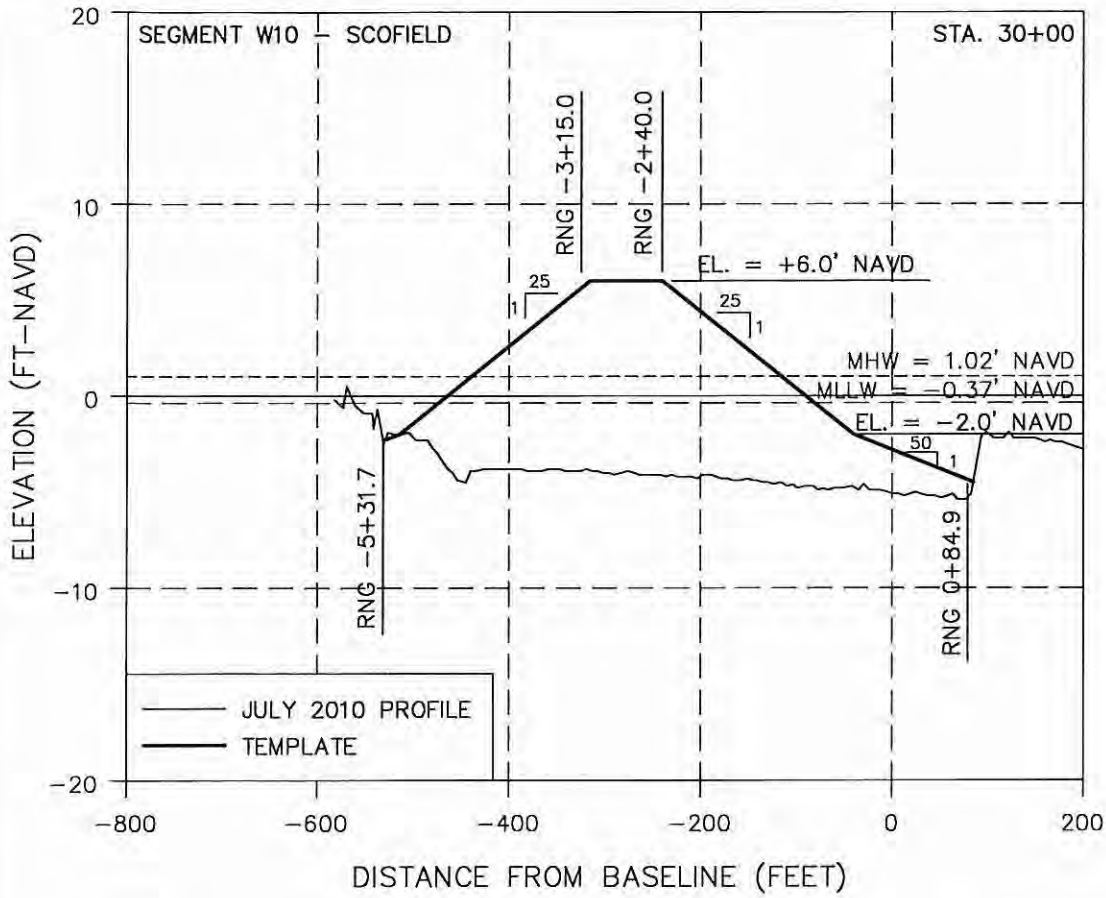
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DRAWN BY: A. BELDEN

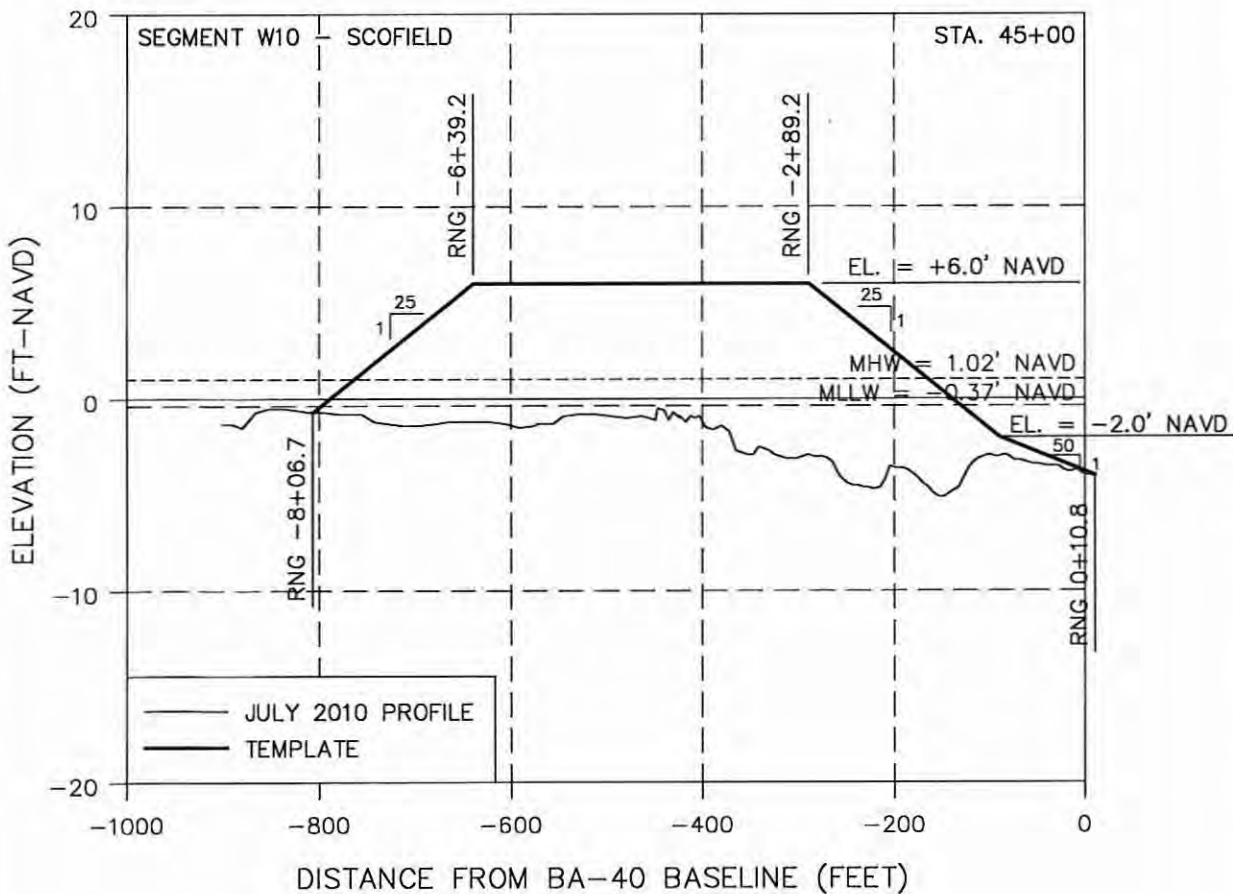
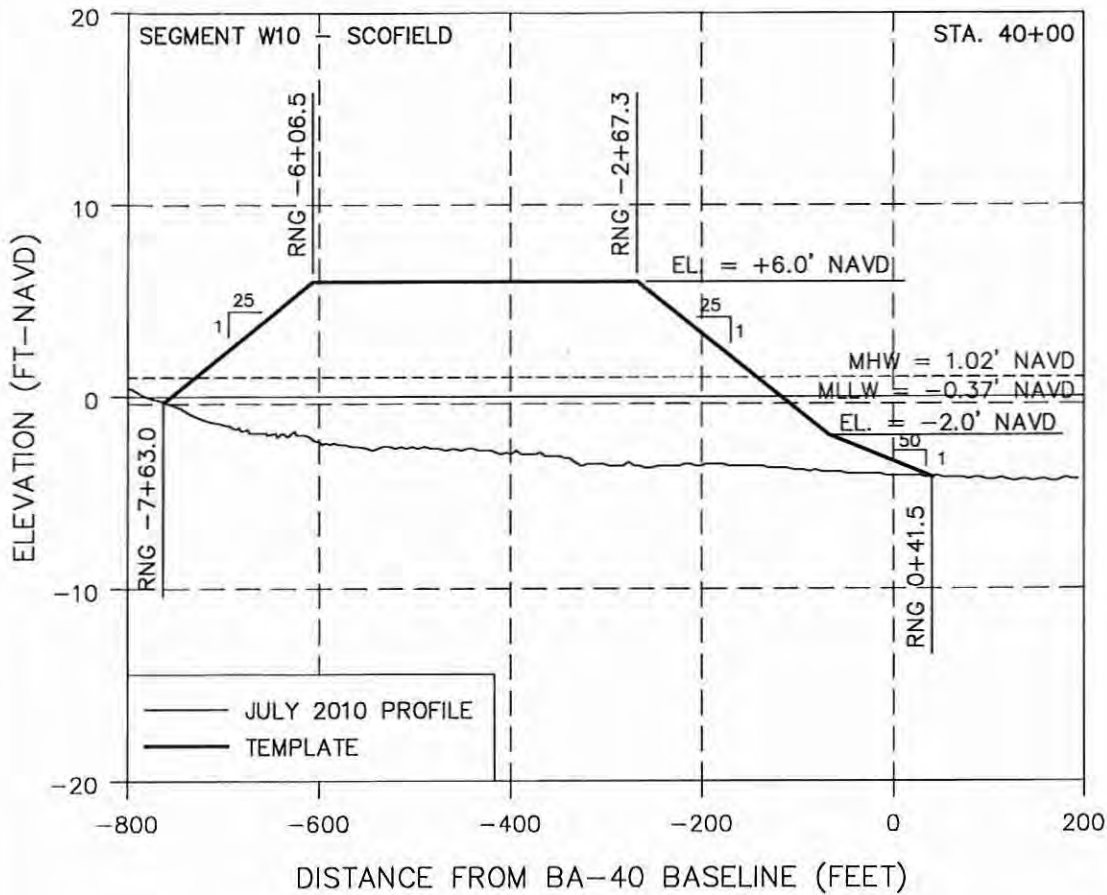




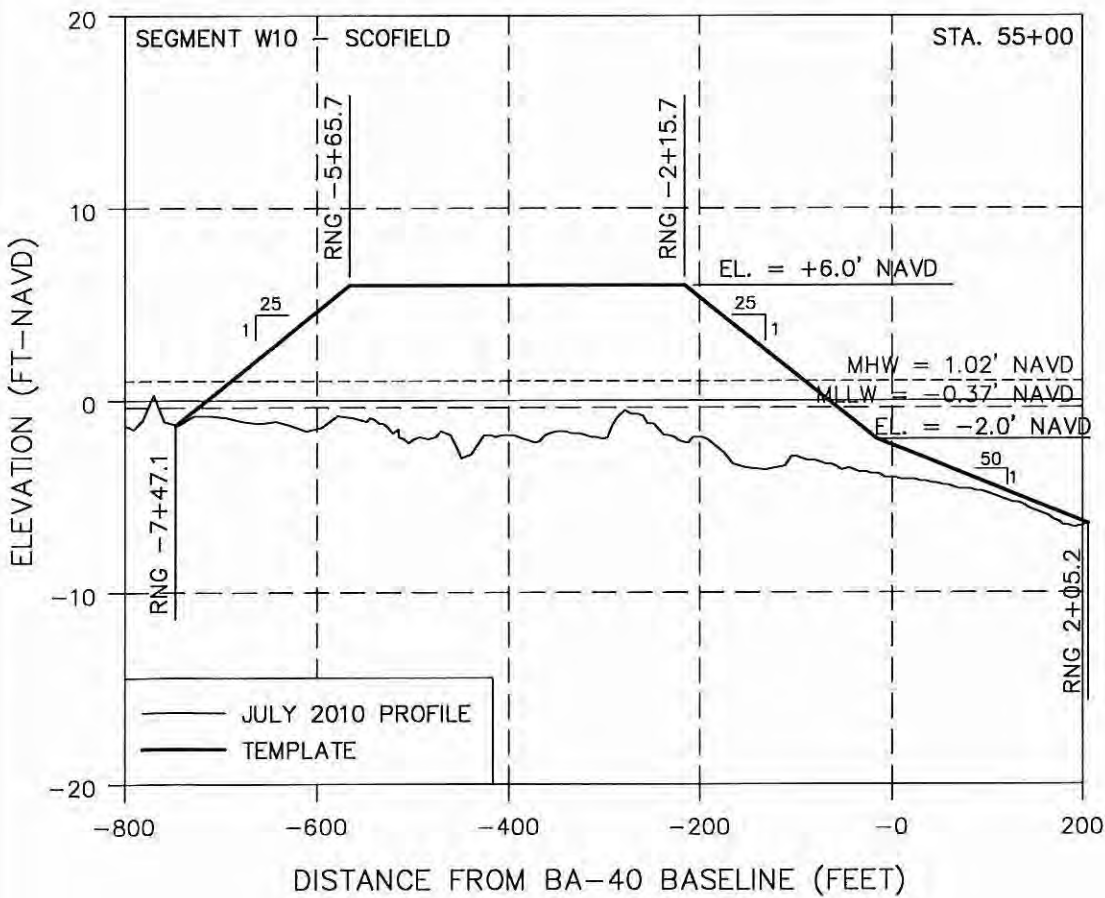
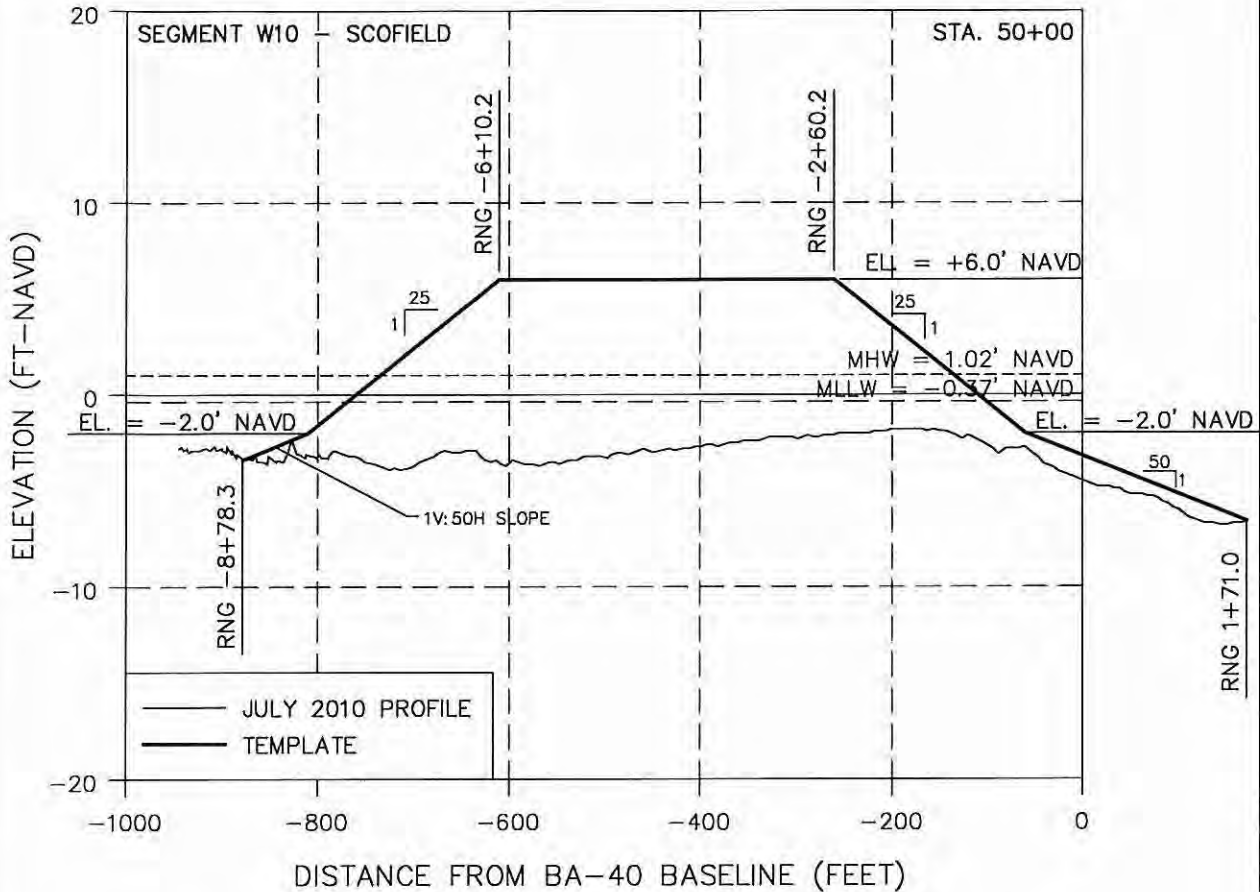
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DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
SHEET 7 OF 34	APPROVED BY:	APPROVED BY:	APPROVED BY:



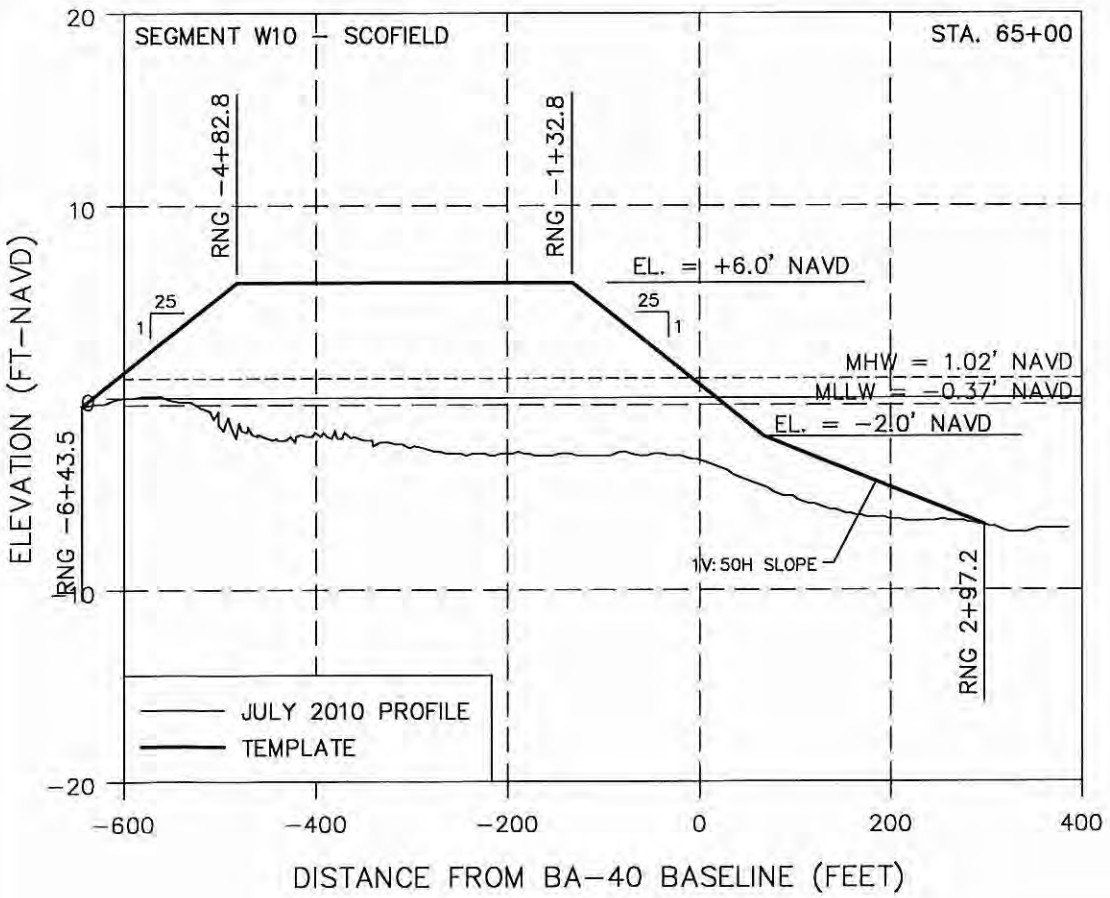
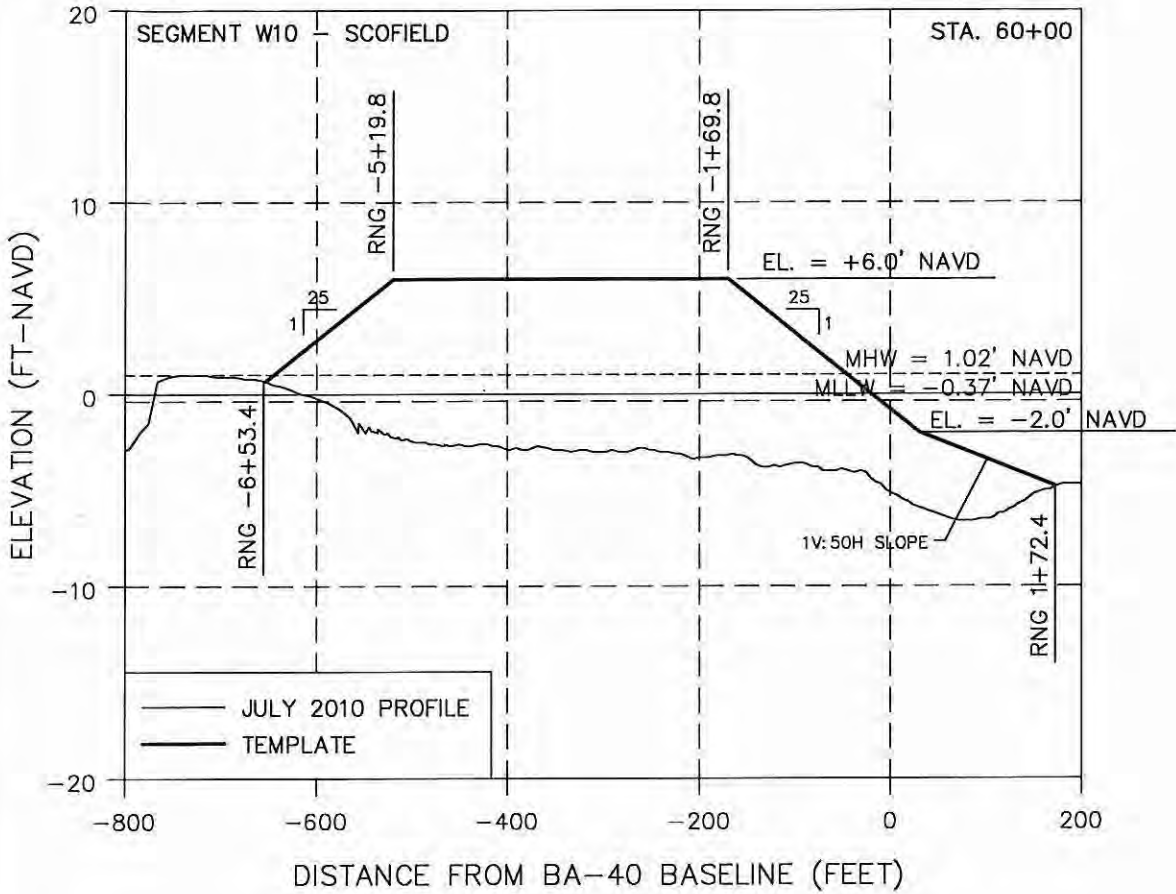
SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:		DESIGNED BY: APPROVED BY:



SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
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<p>SEGMENT W10 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
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SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:	DRAWN BY:

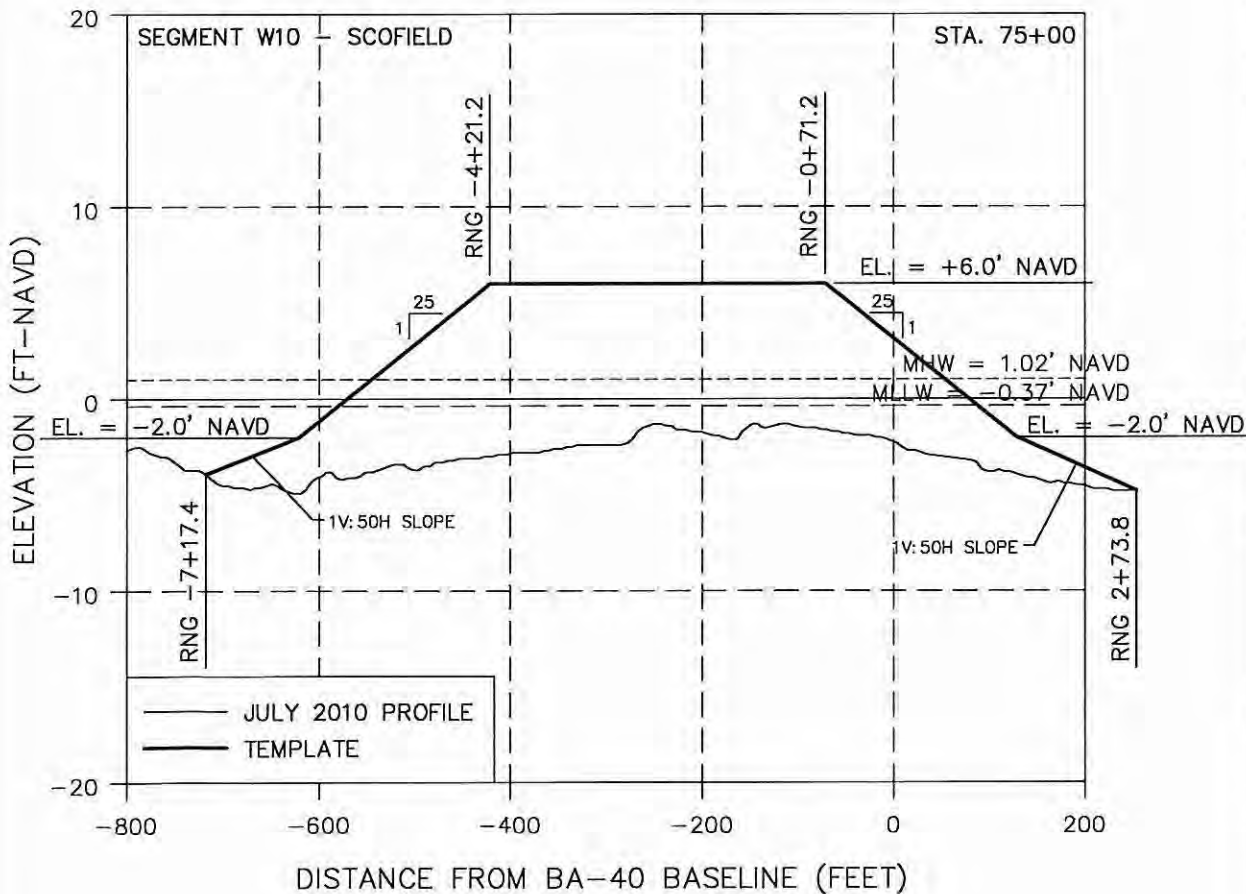
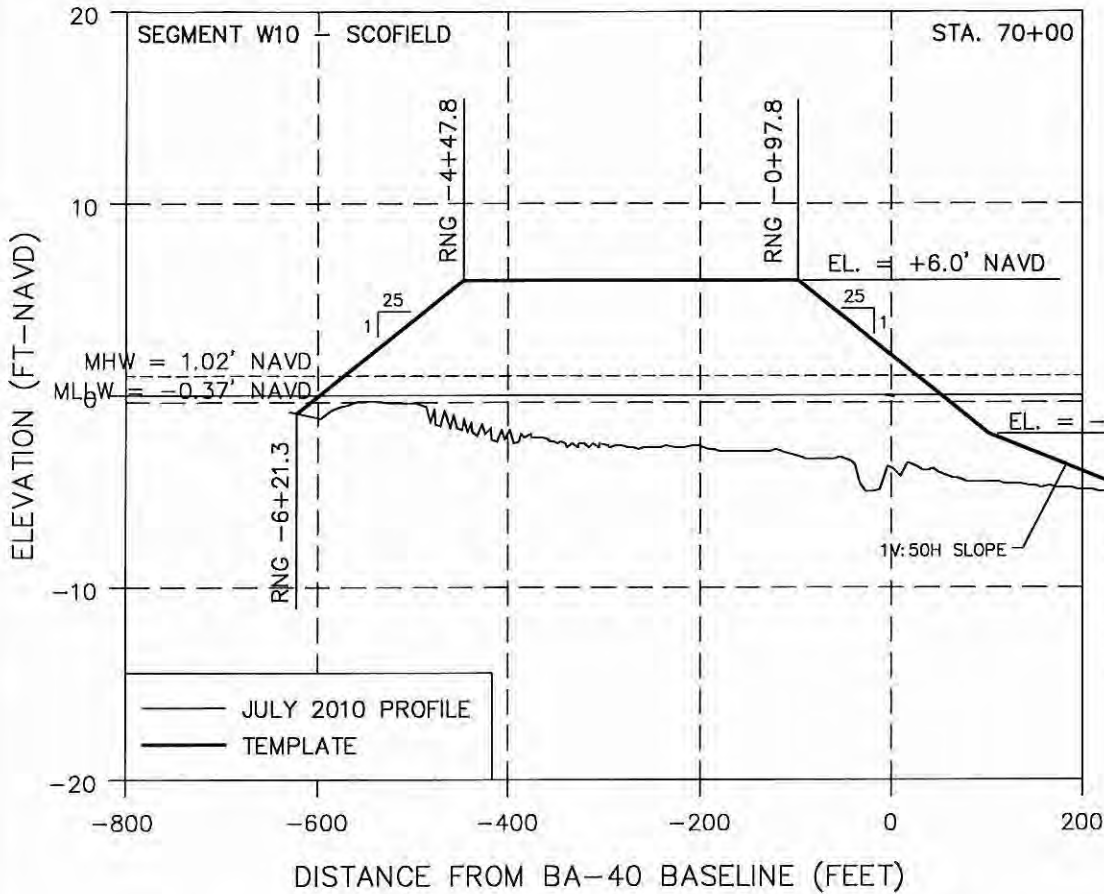
DATE: 10/13/10

STATE PROJECT NUMBER:  
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DESIGNED BY:  
APPROVED BY:

DRAWN BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

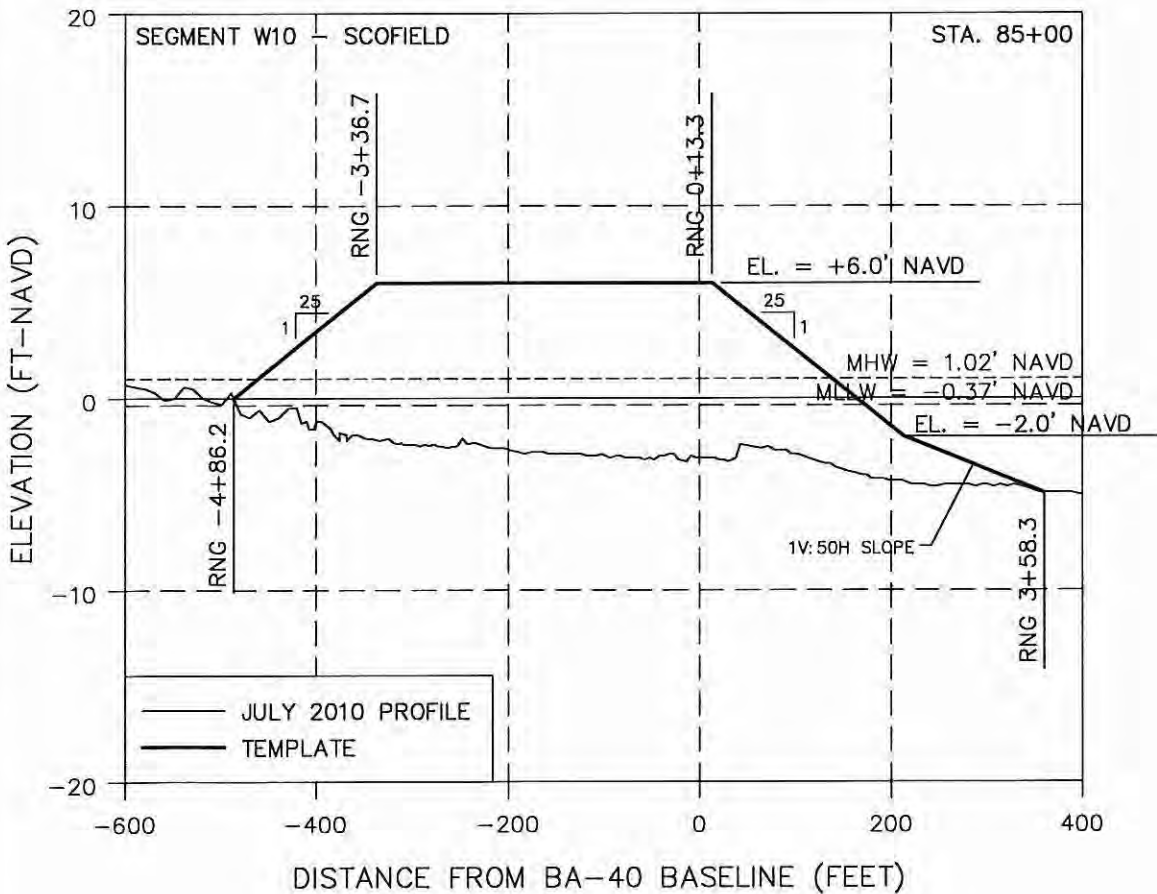
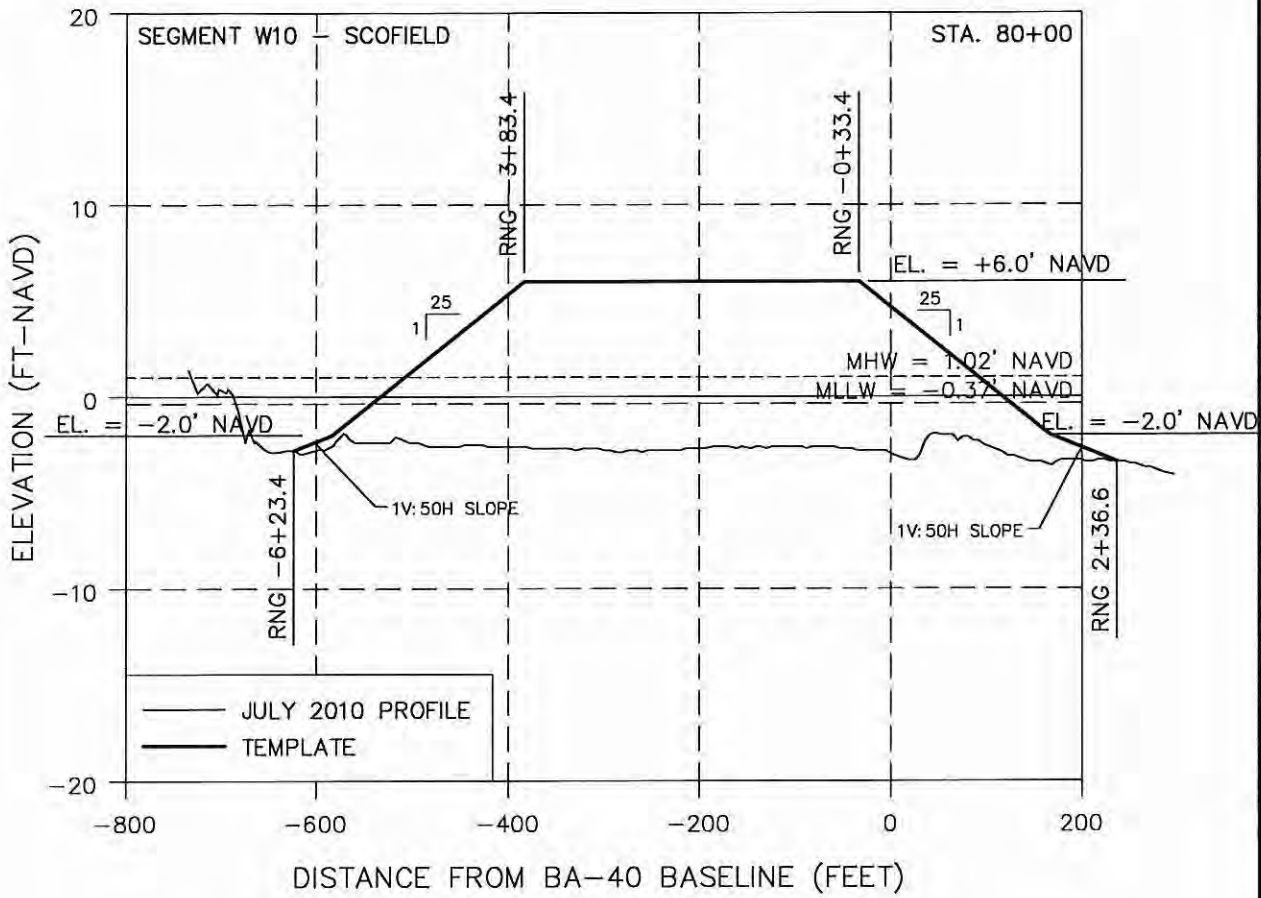
APPROVED BY:

DESIGNED BY:

DRAWN BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

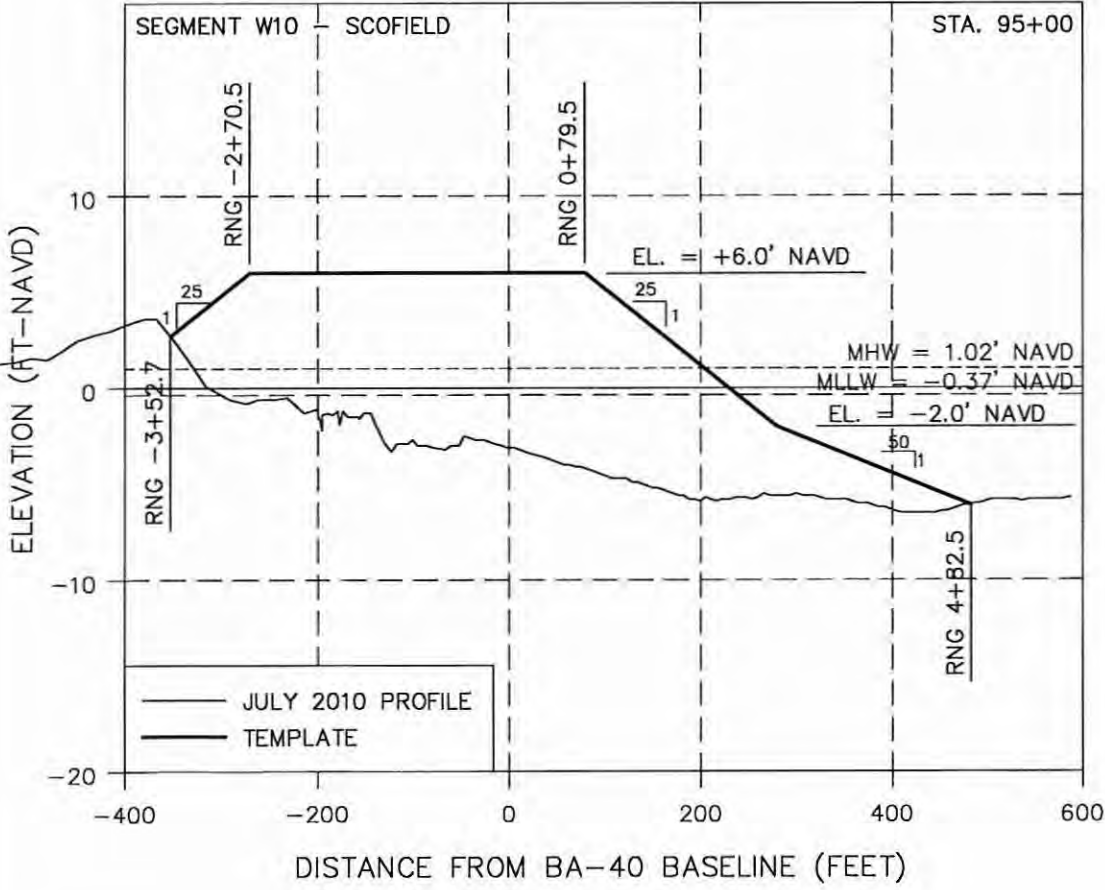
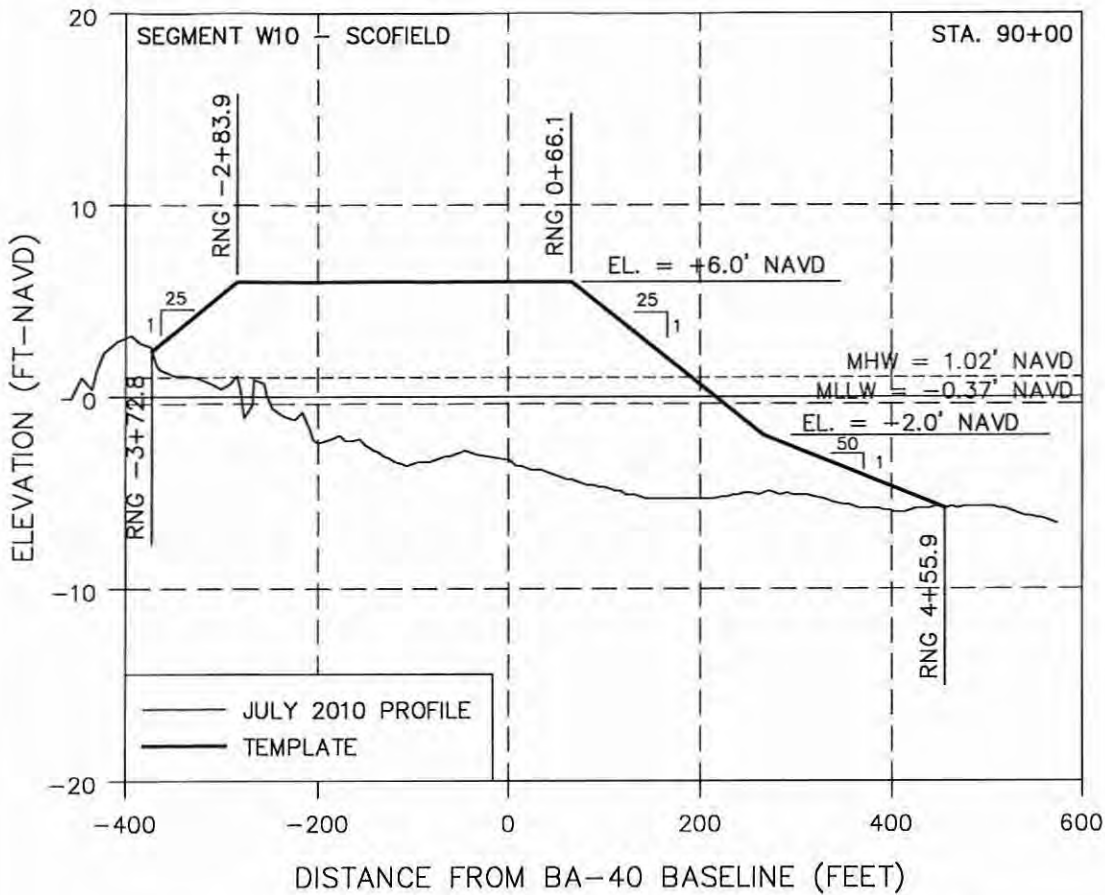
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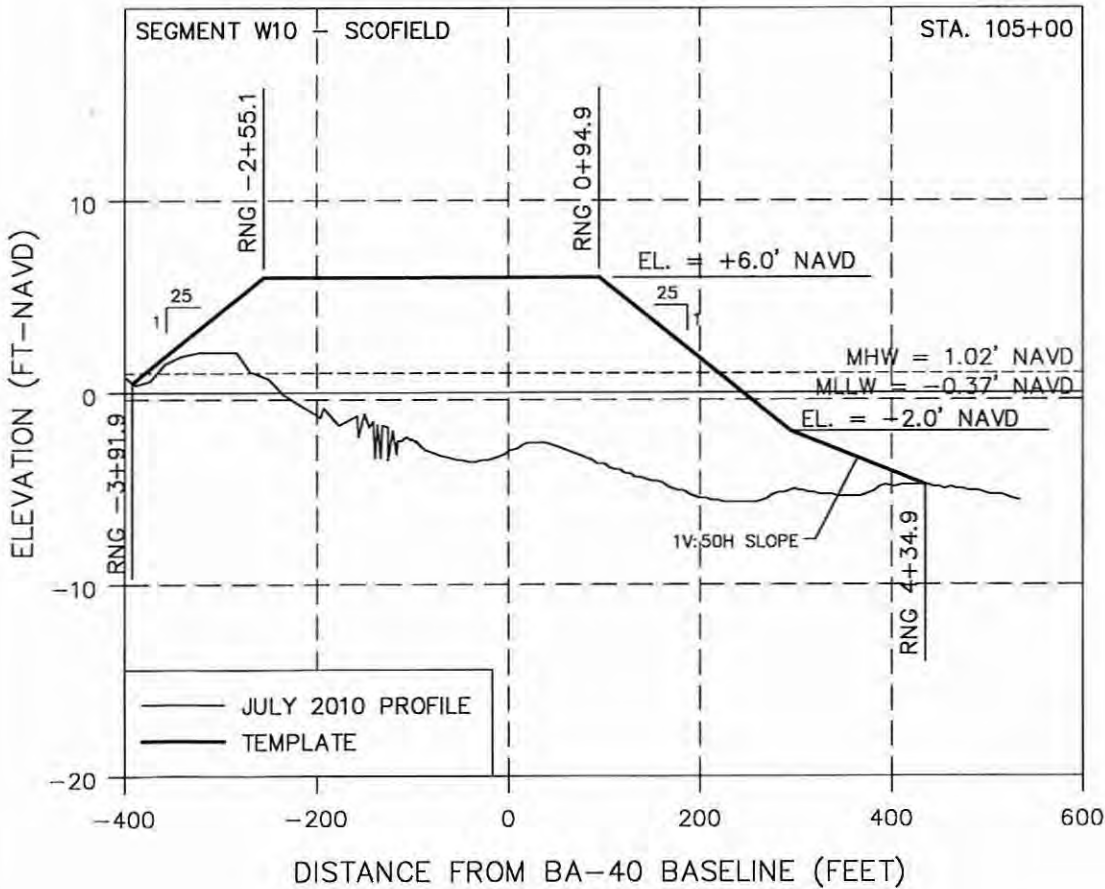
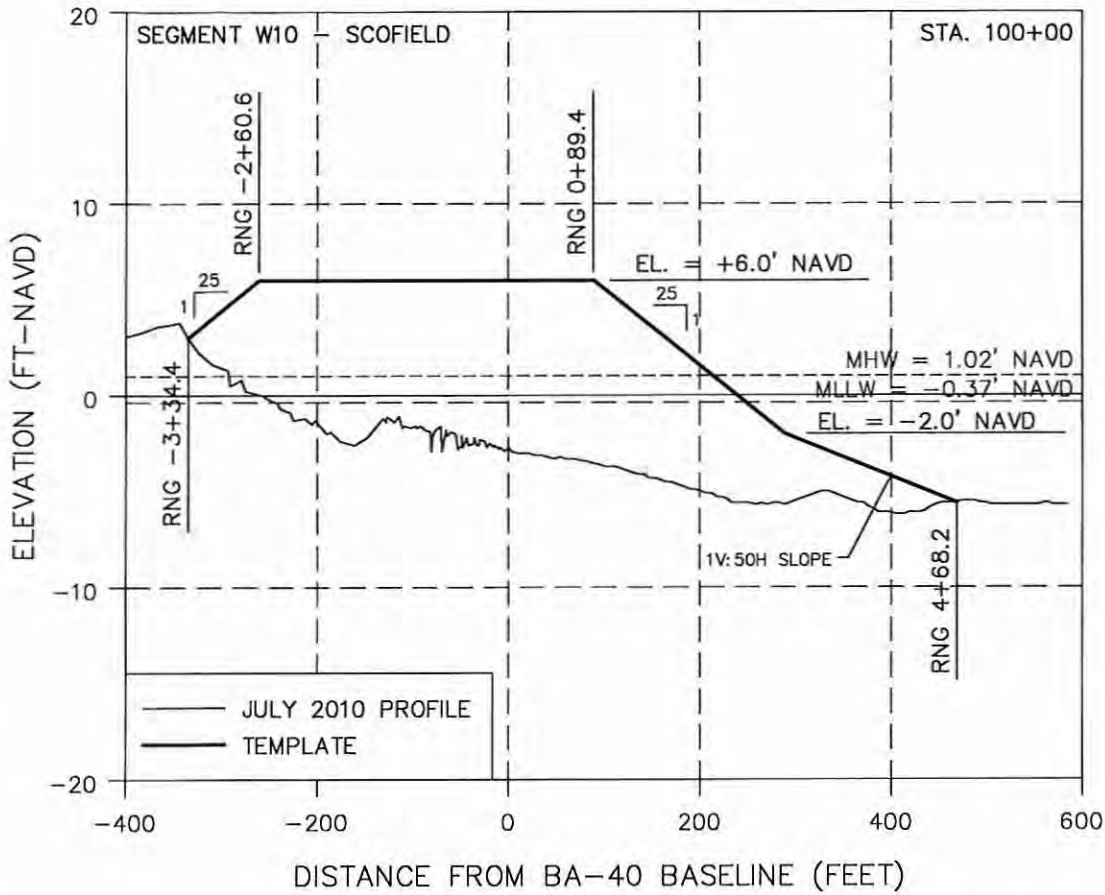
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SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:	DRAWN BY:





SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

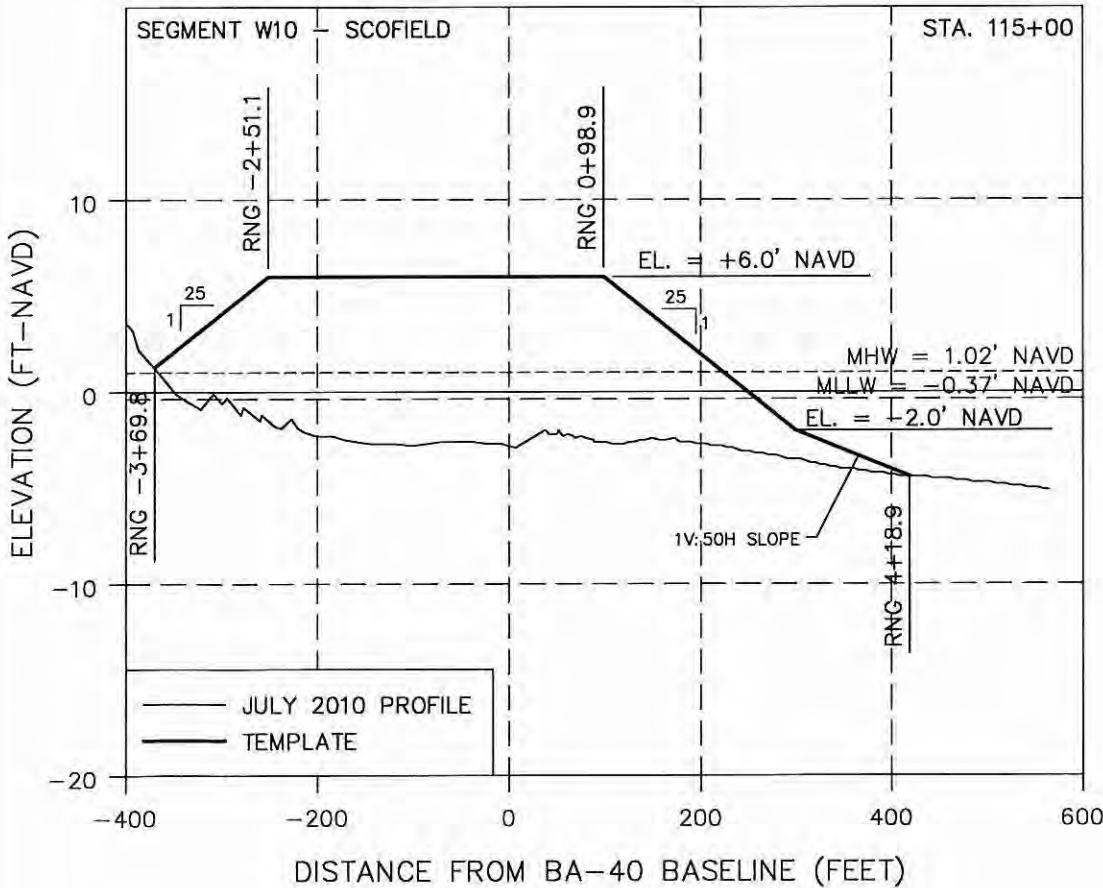
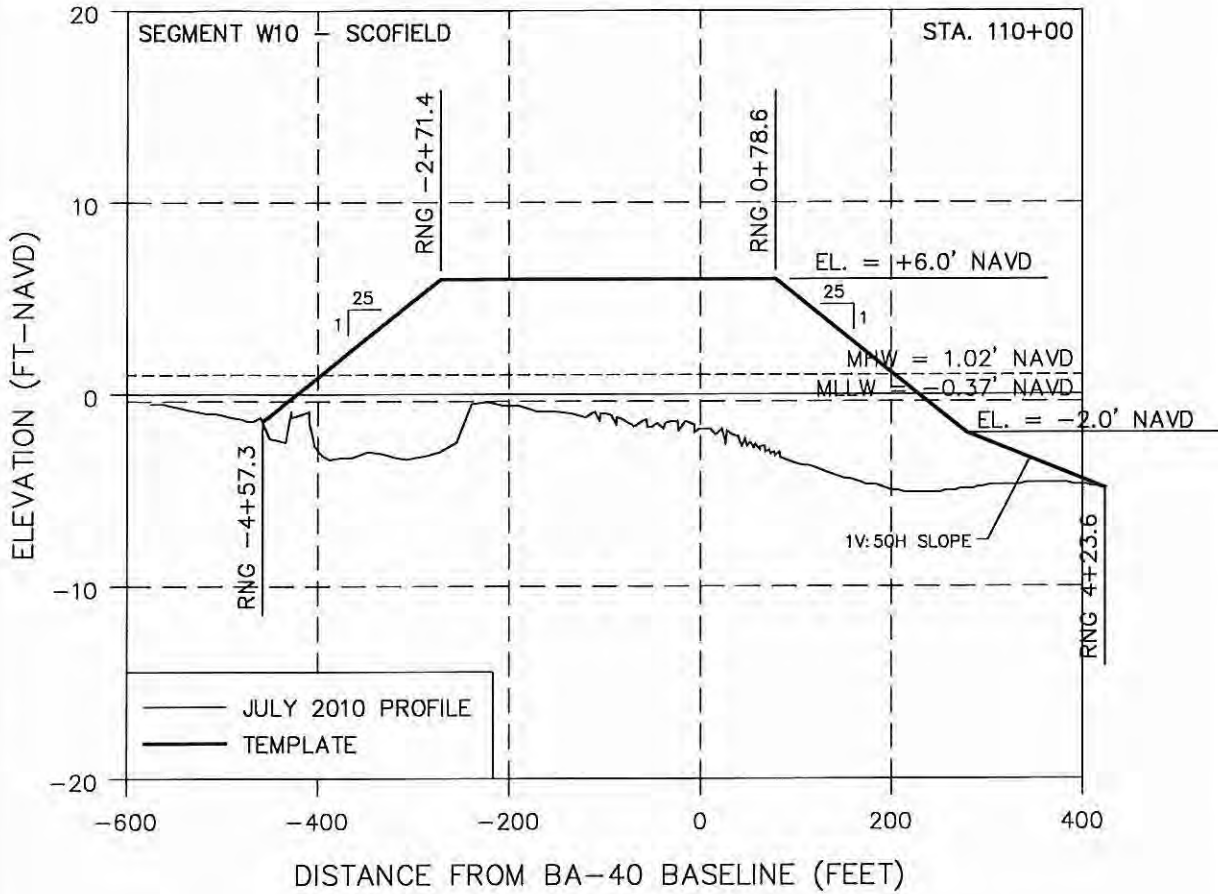
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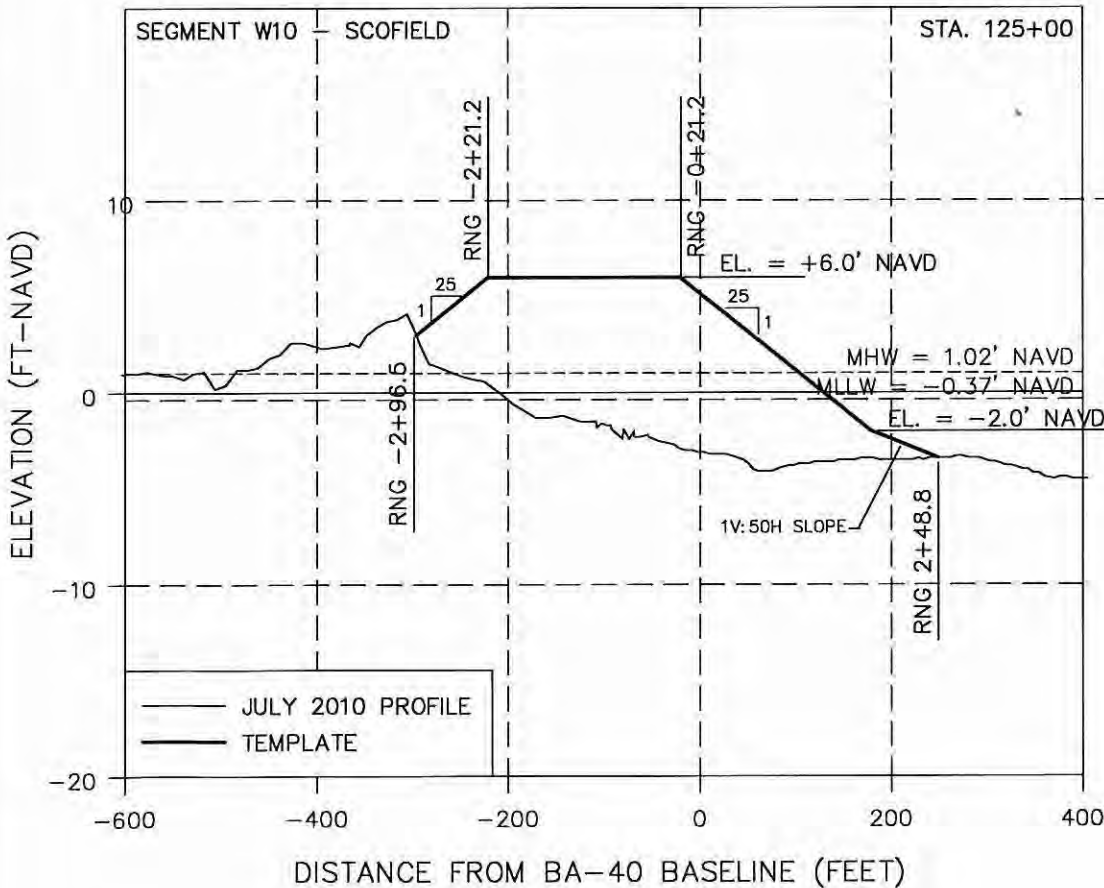
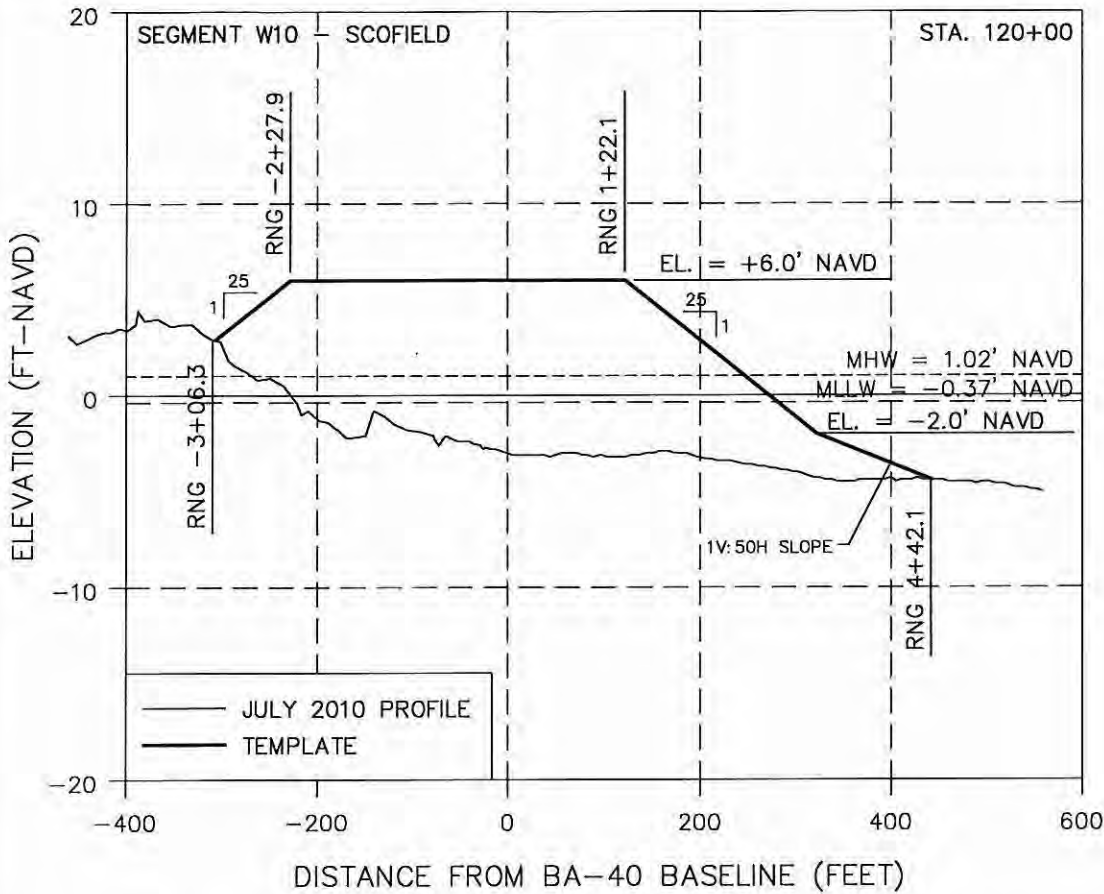
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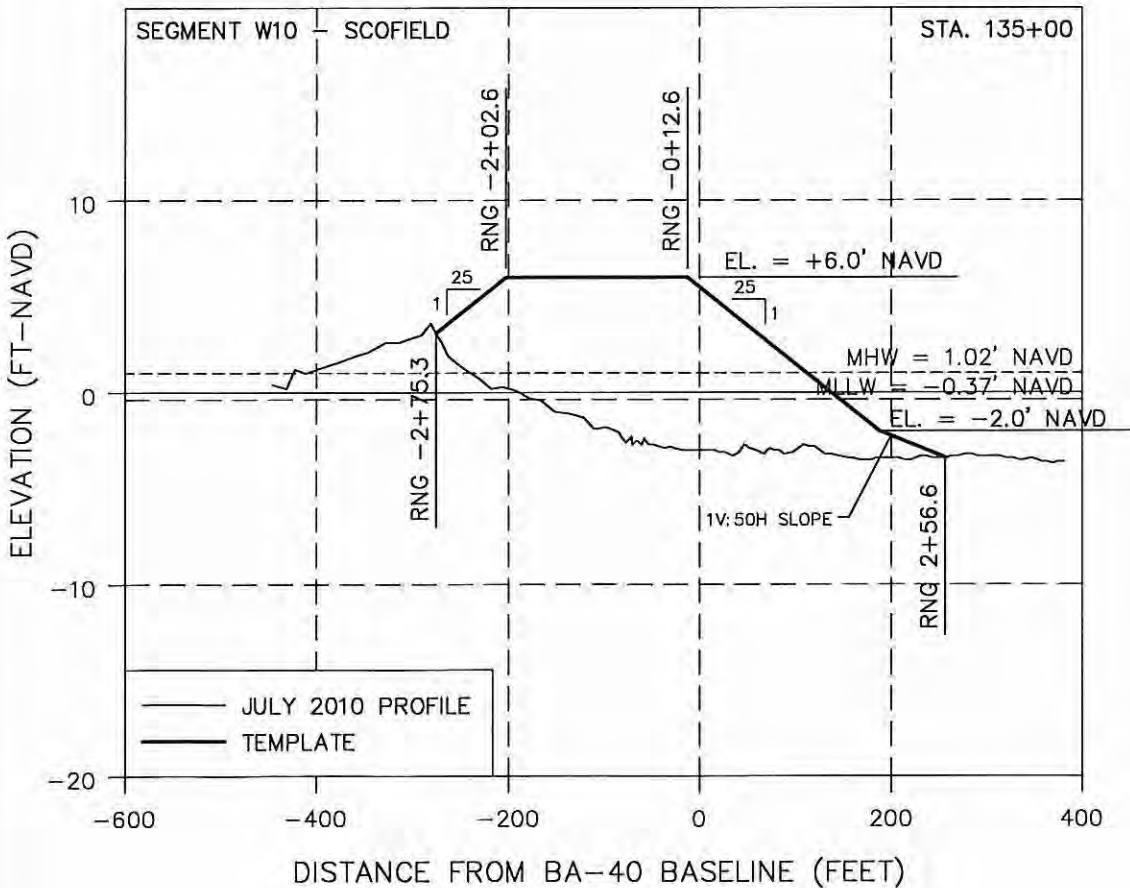
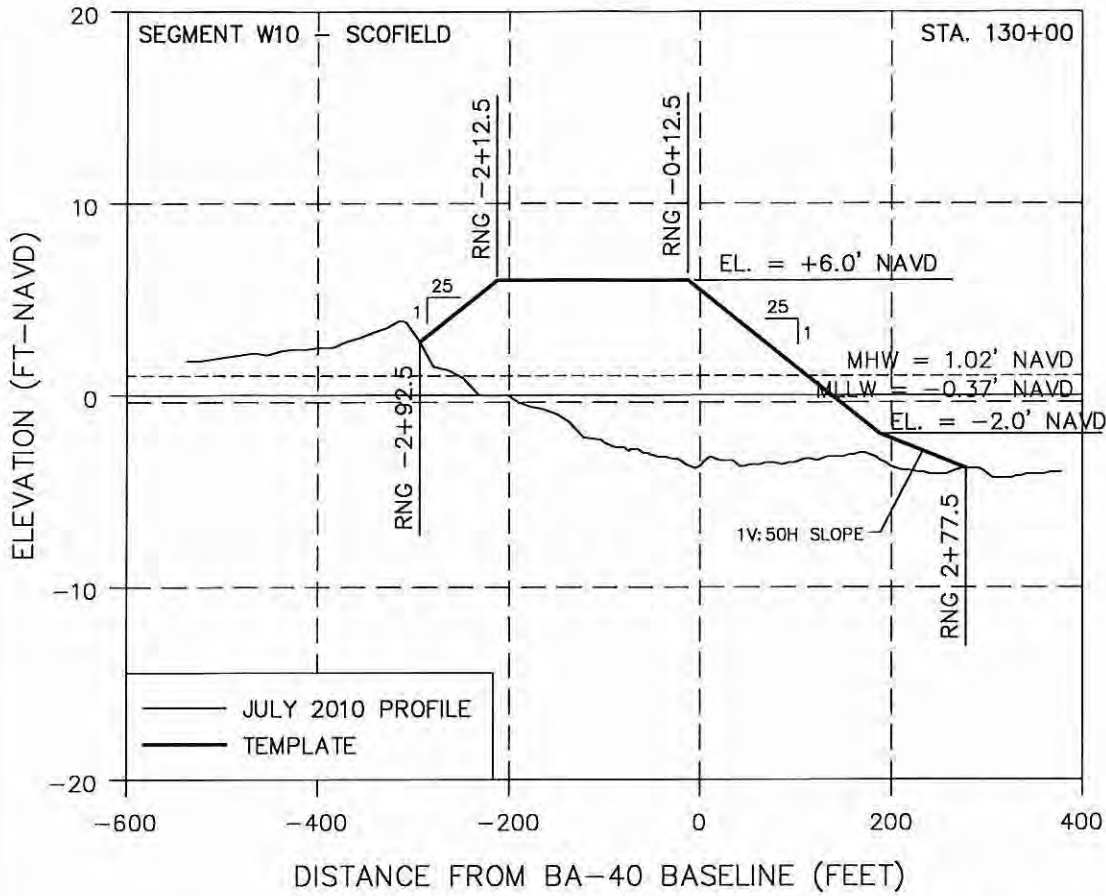
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SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
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SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

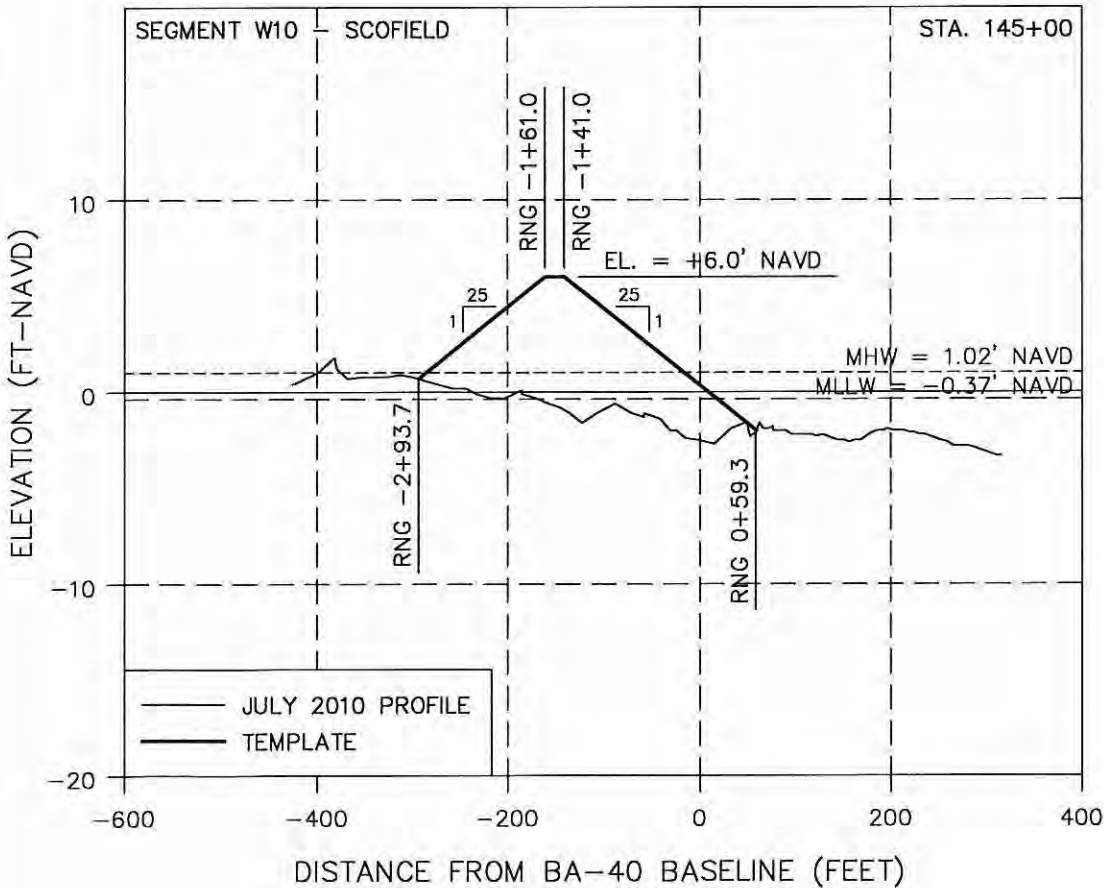
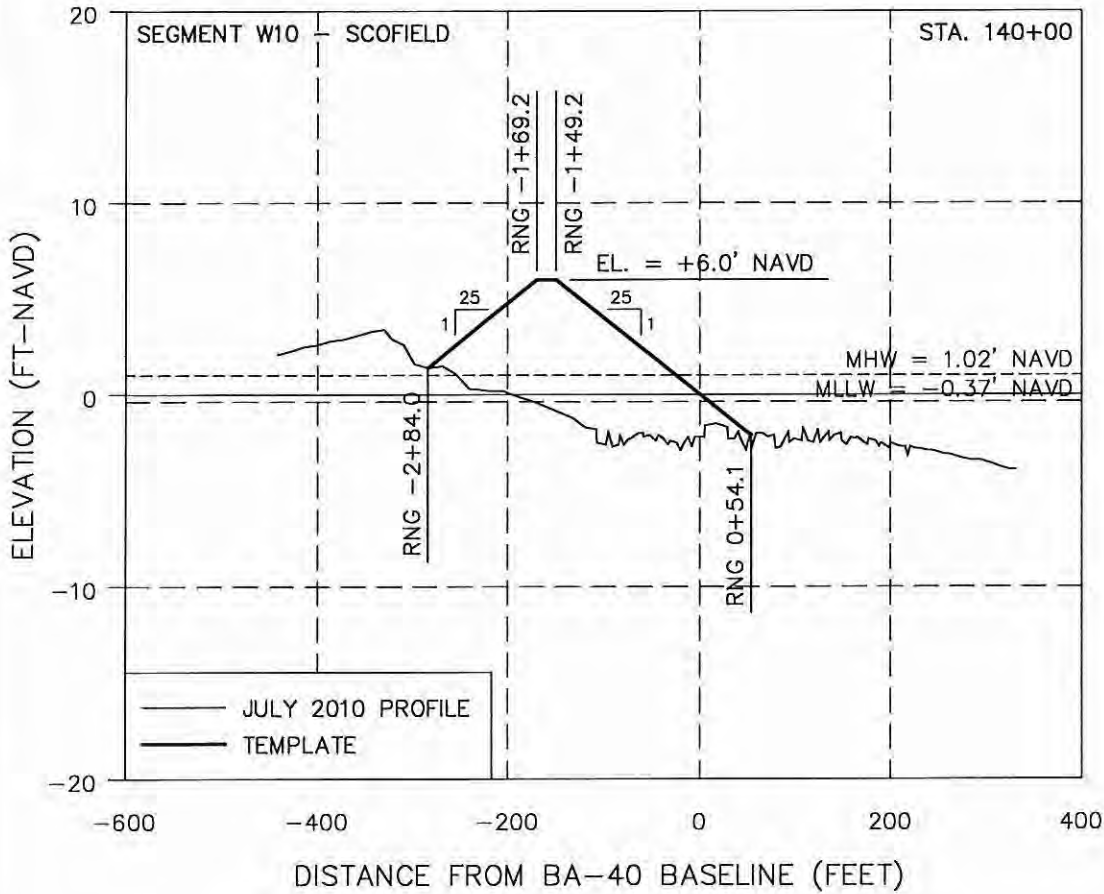
DESIGNED BY:

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APPROVED BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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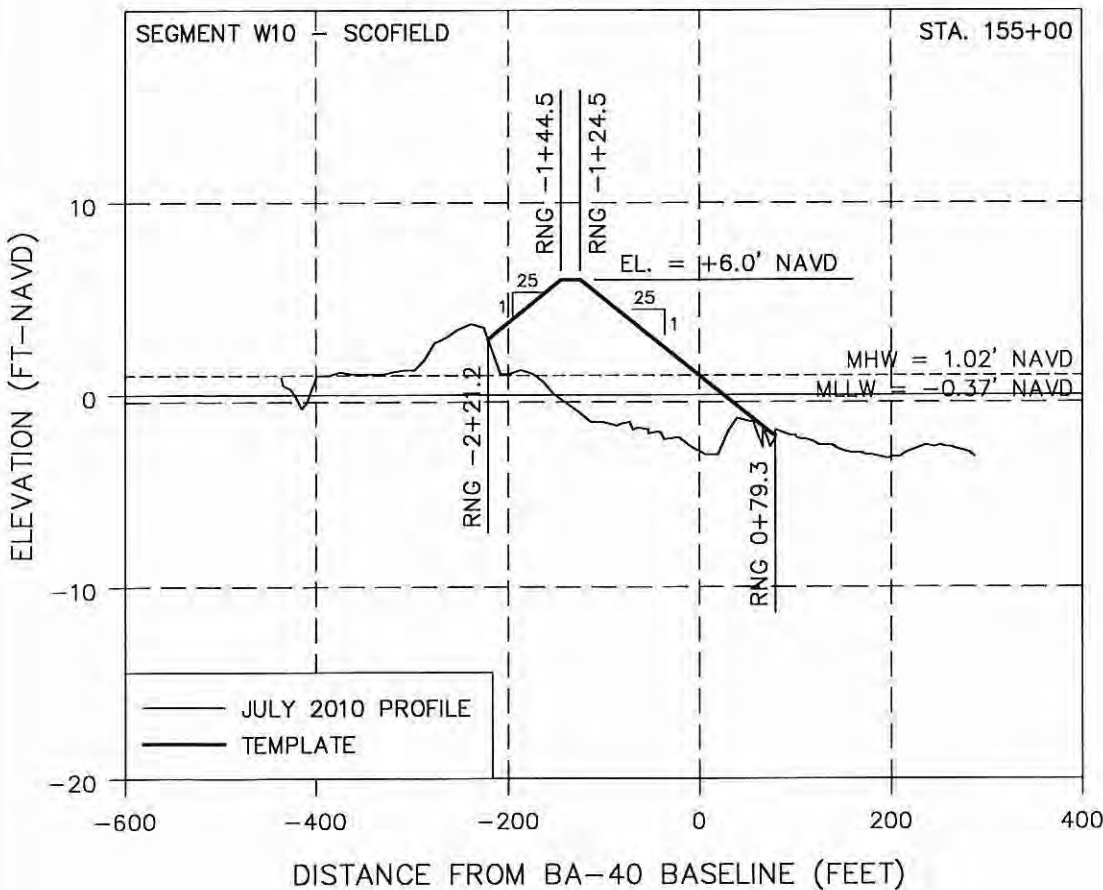
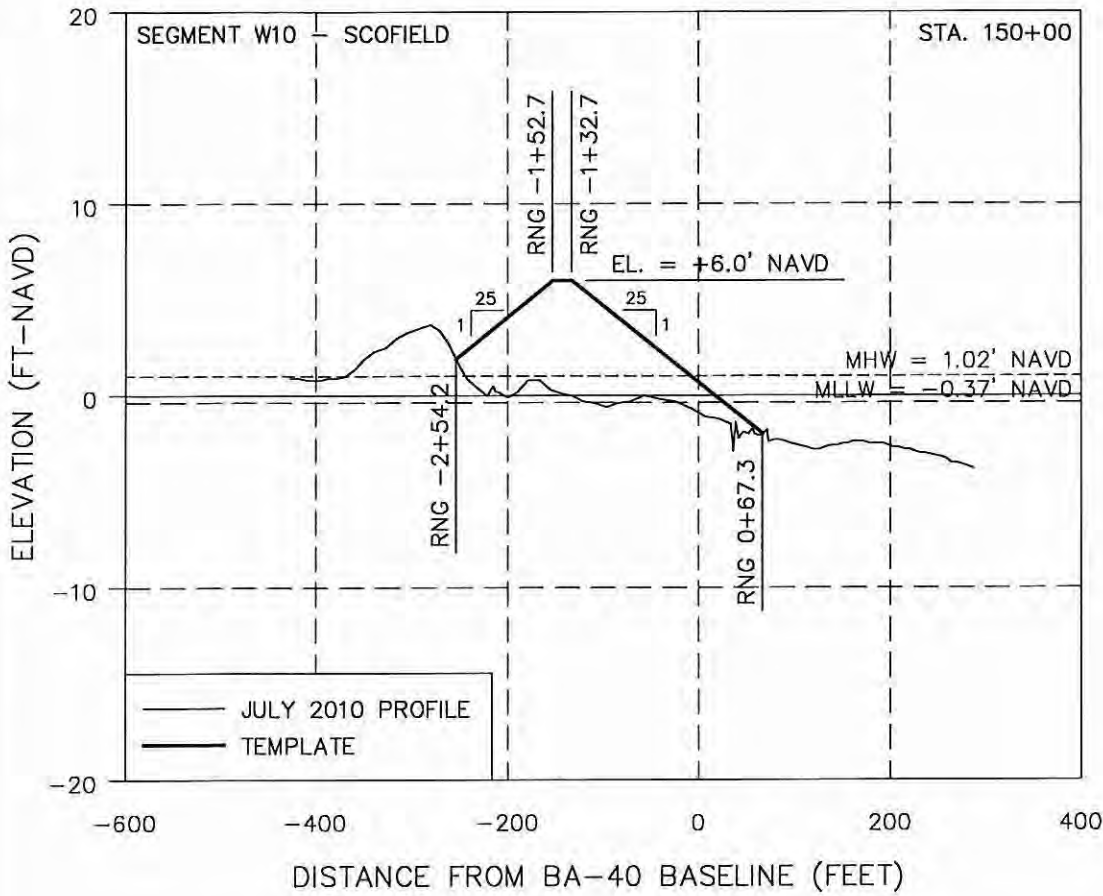
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FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

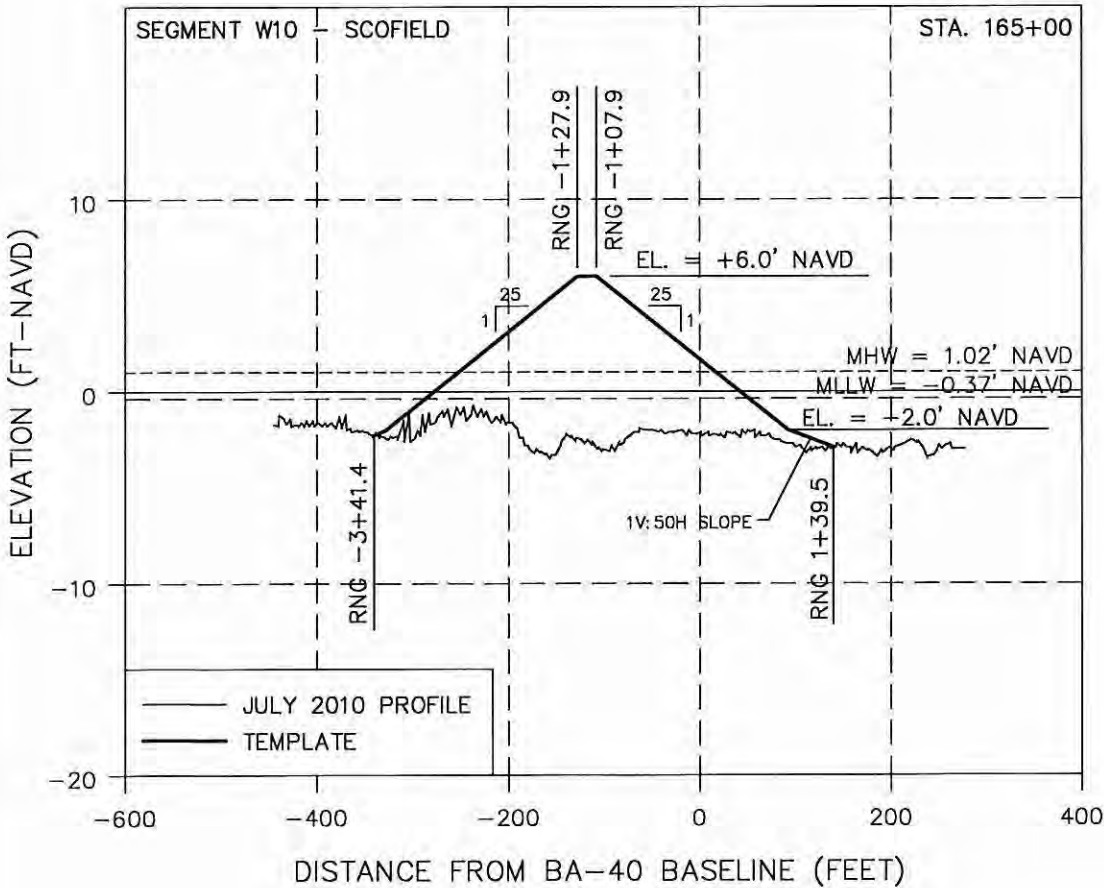
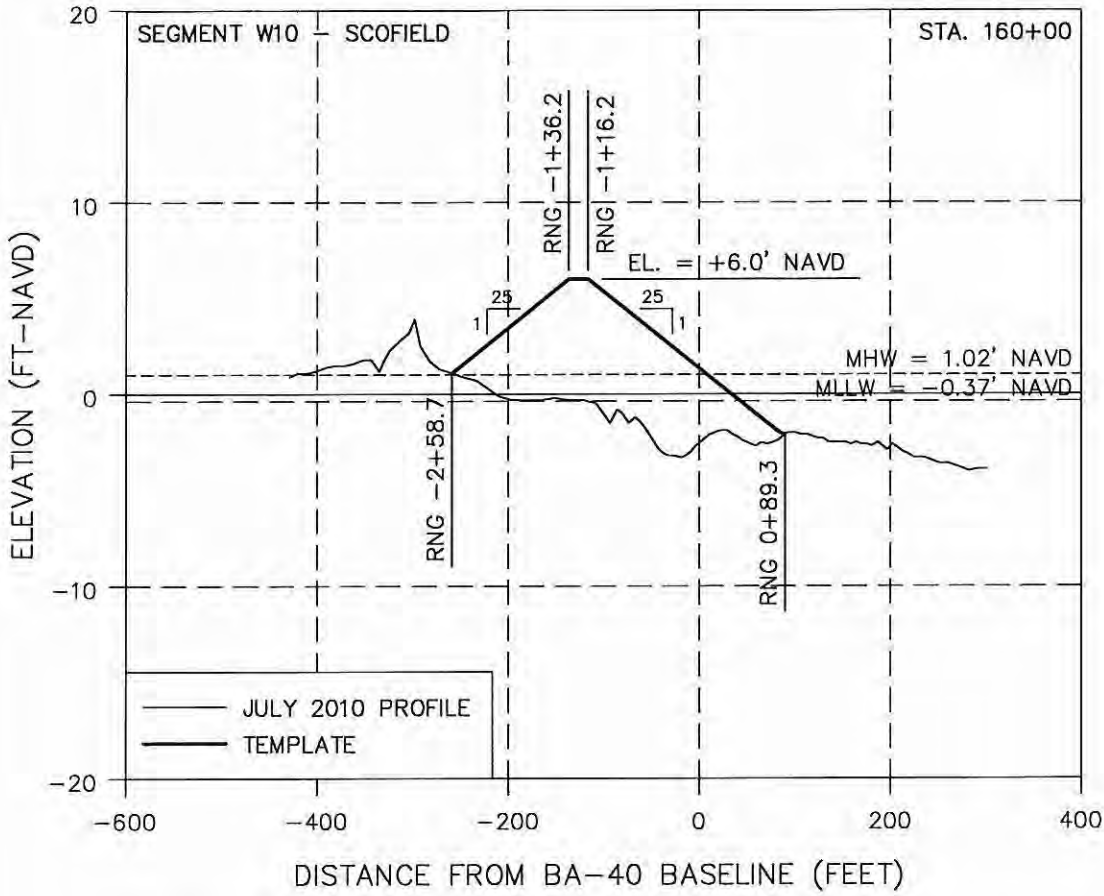
DESIGNED BY:

DRAWN BY:

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APPROVED BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

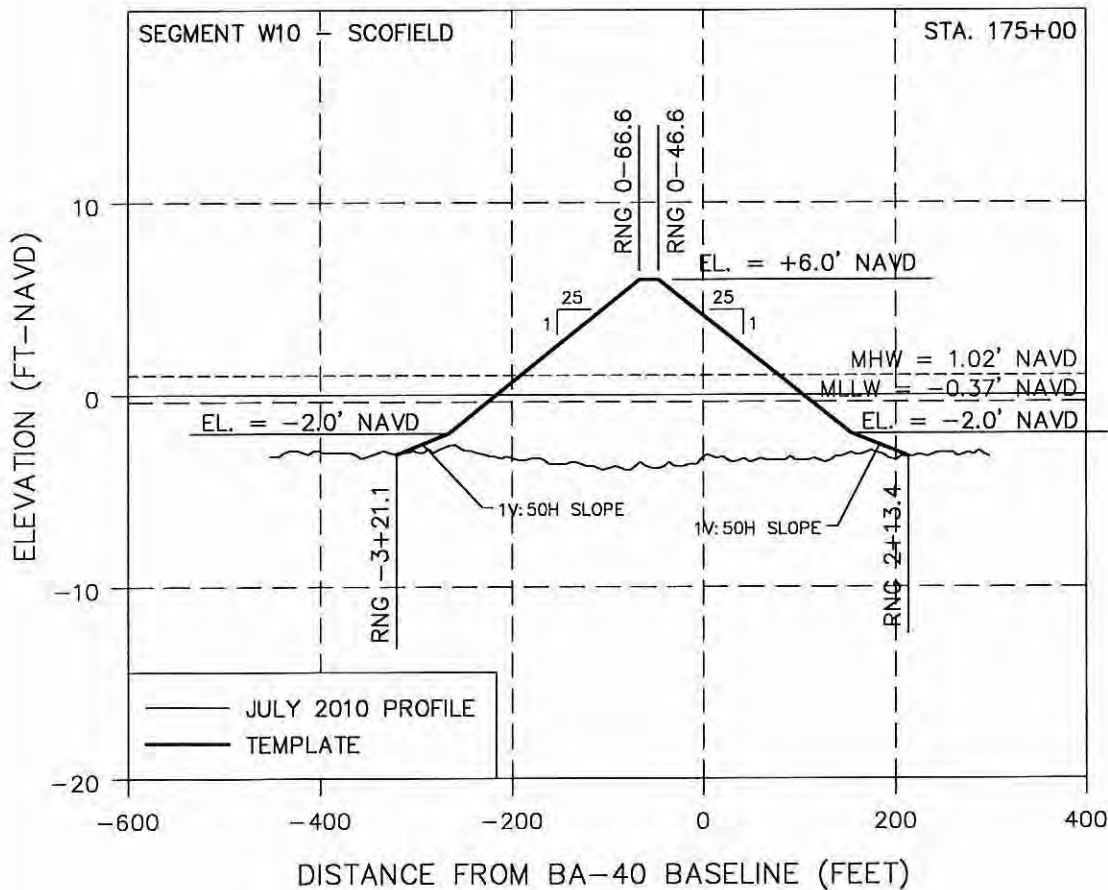
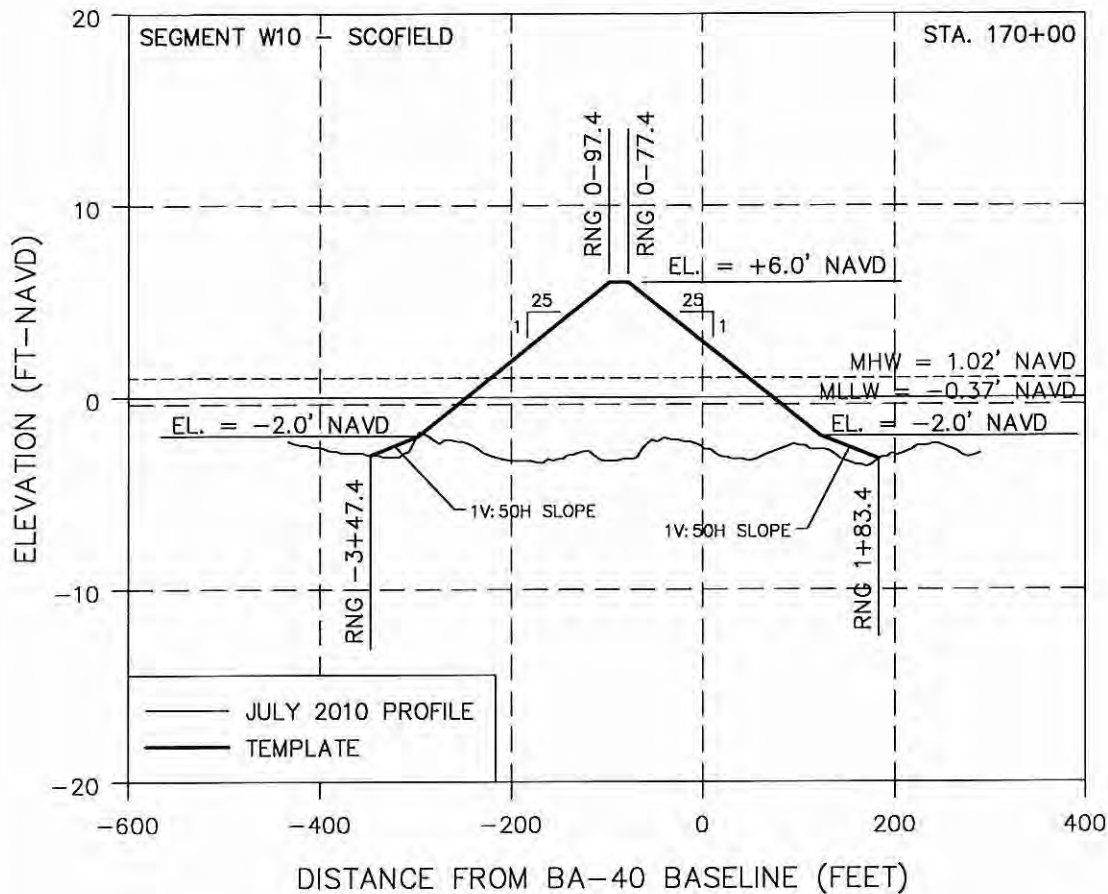
APPROVED BY:

DESIGNED BY:

DRAWN BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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STATE PROJECT NUMBER:

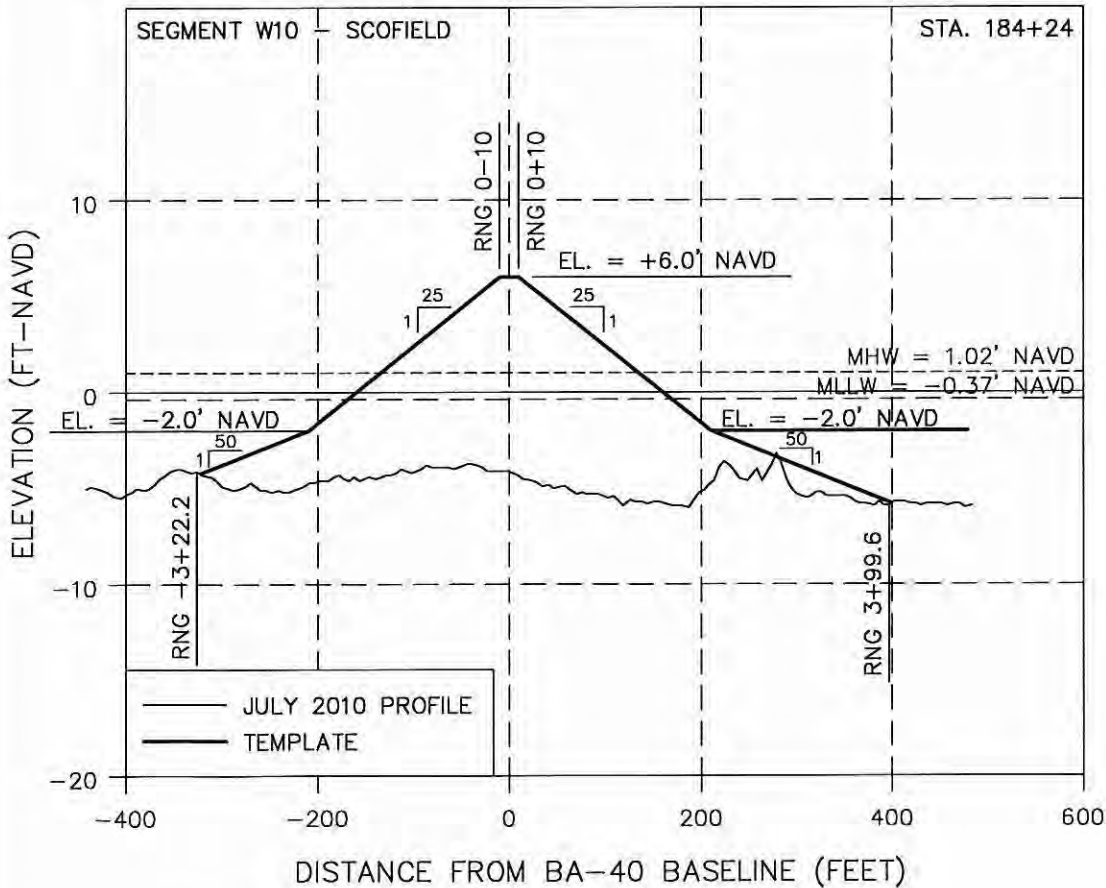
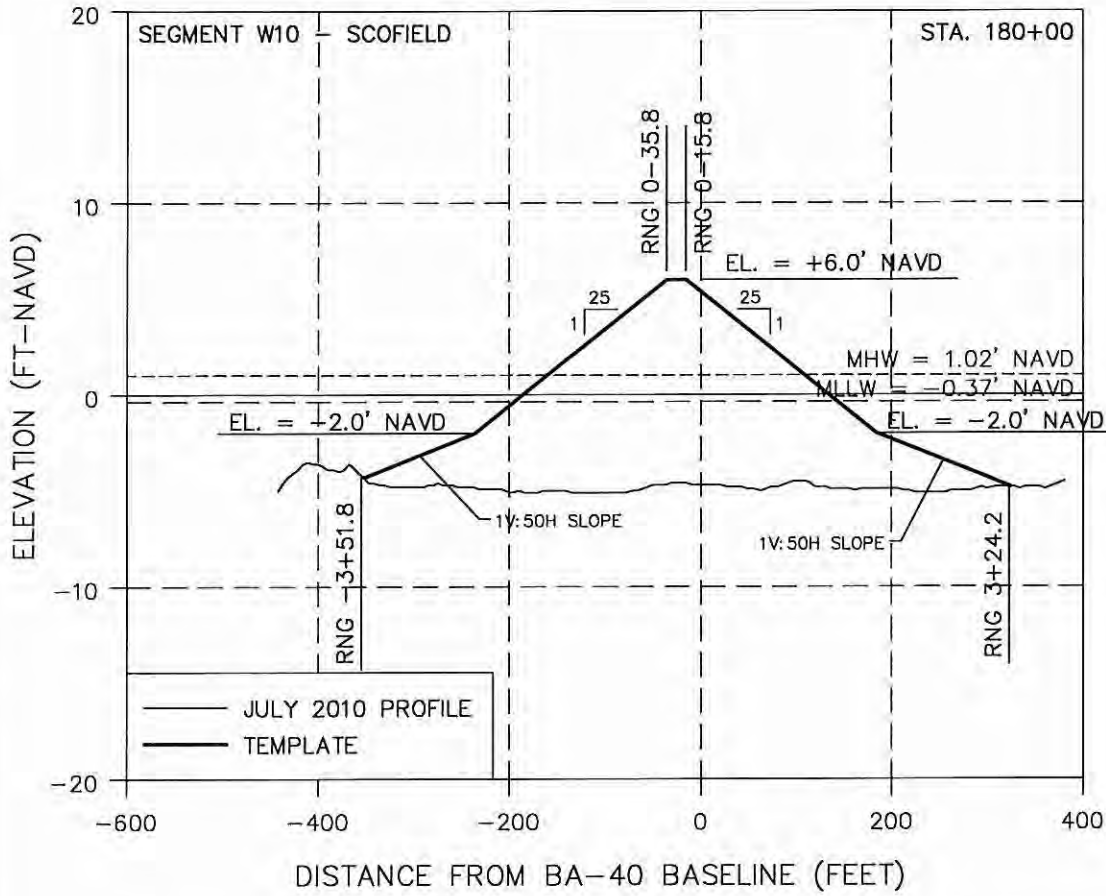
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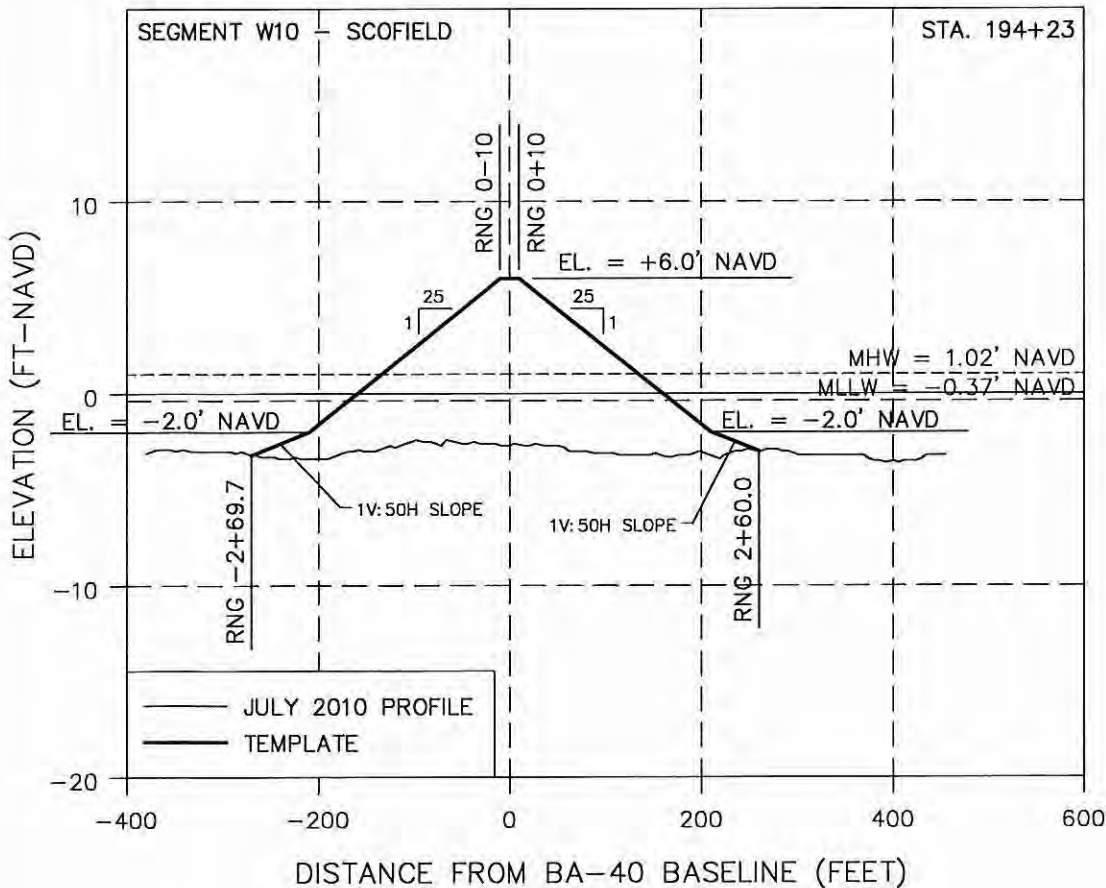
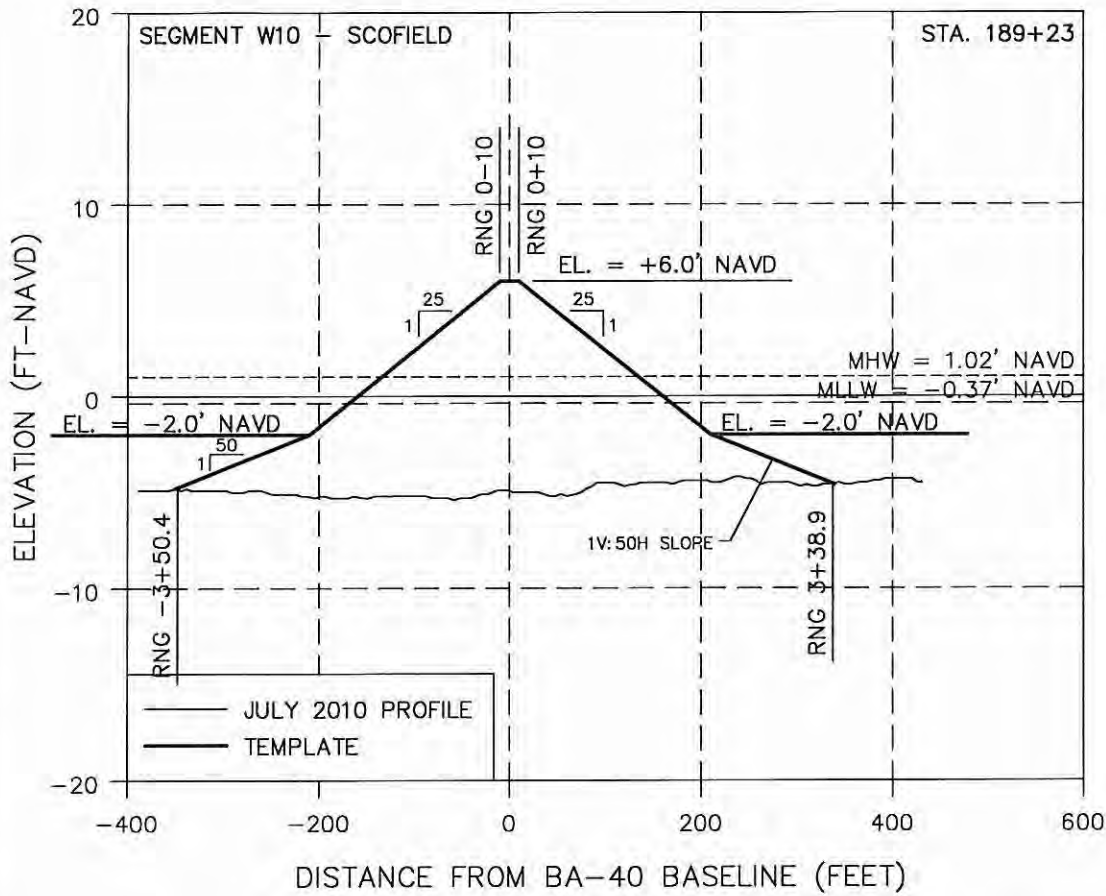
DESIGNED BY:

DRAWN BY:





SEGMENT W10 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 10/13/10	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:
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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

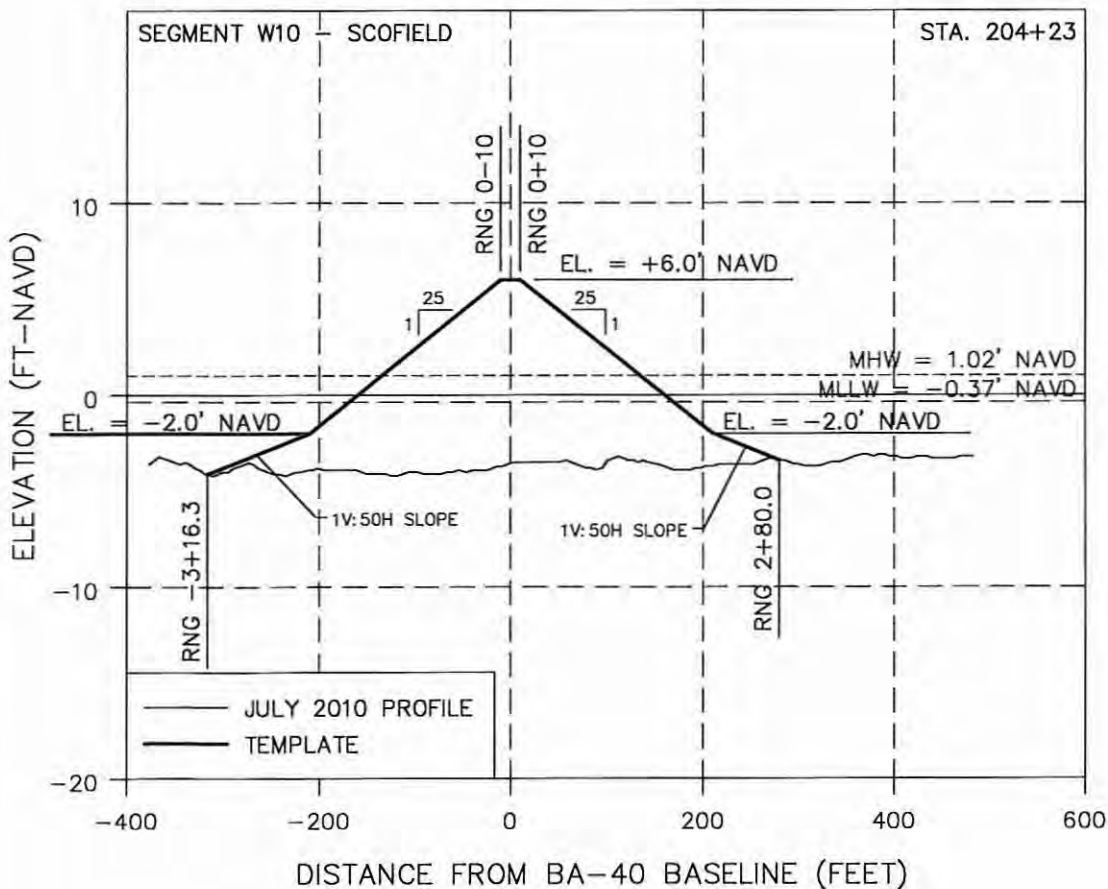
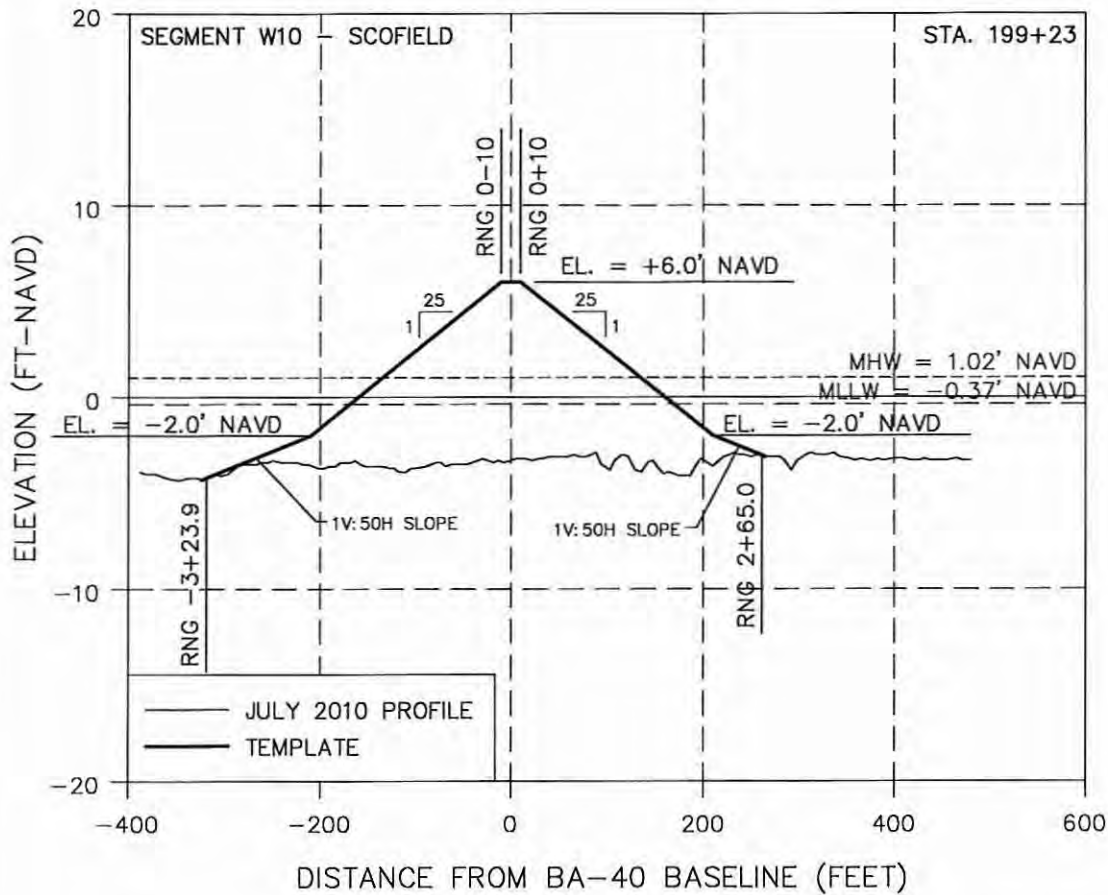
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APPROVED BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
460 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
460 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

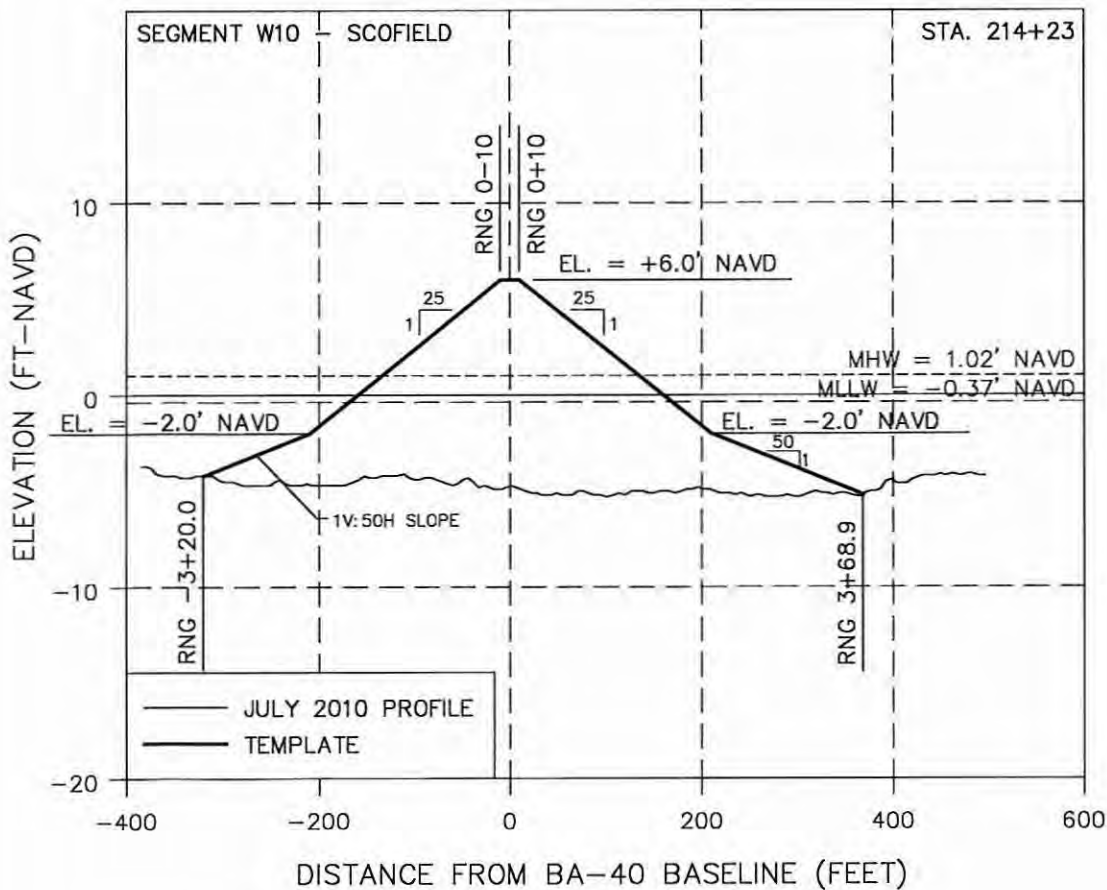
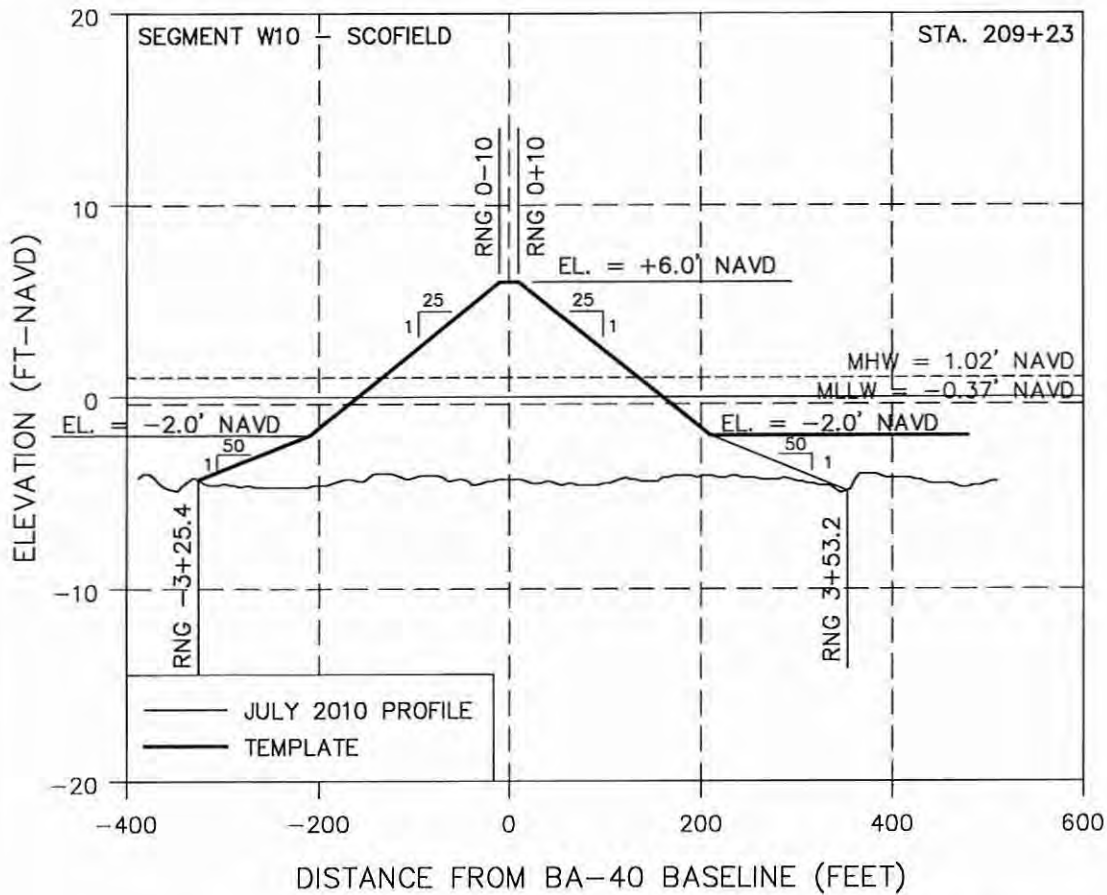
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DRAWN BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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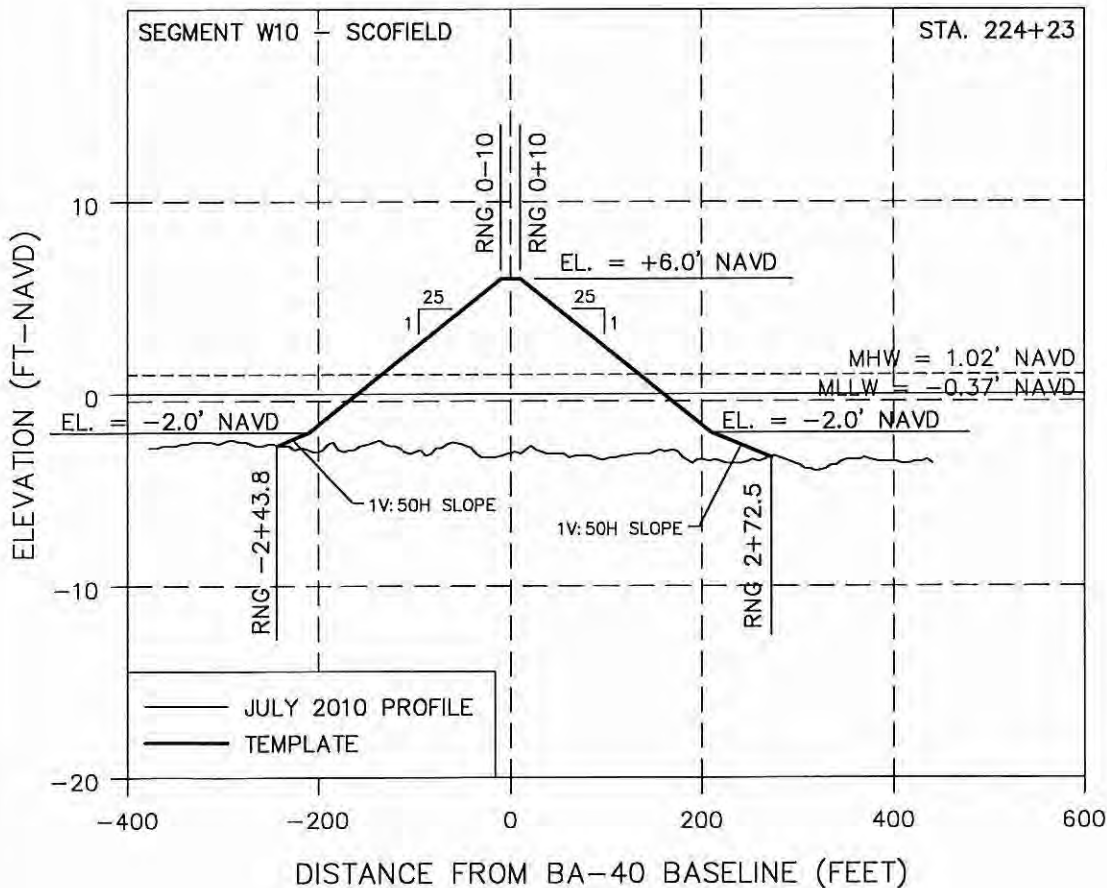
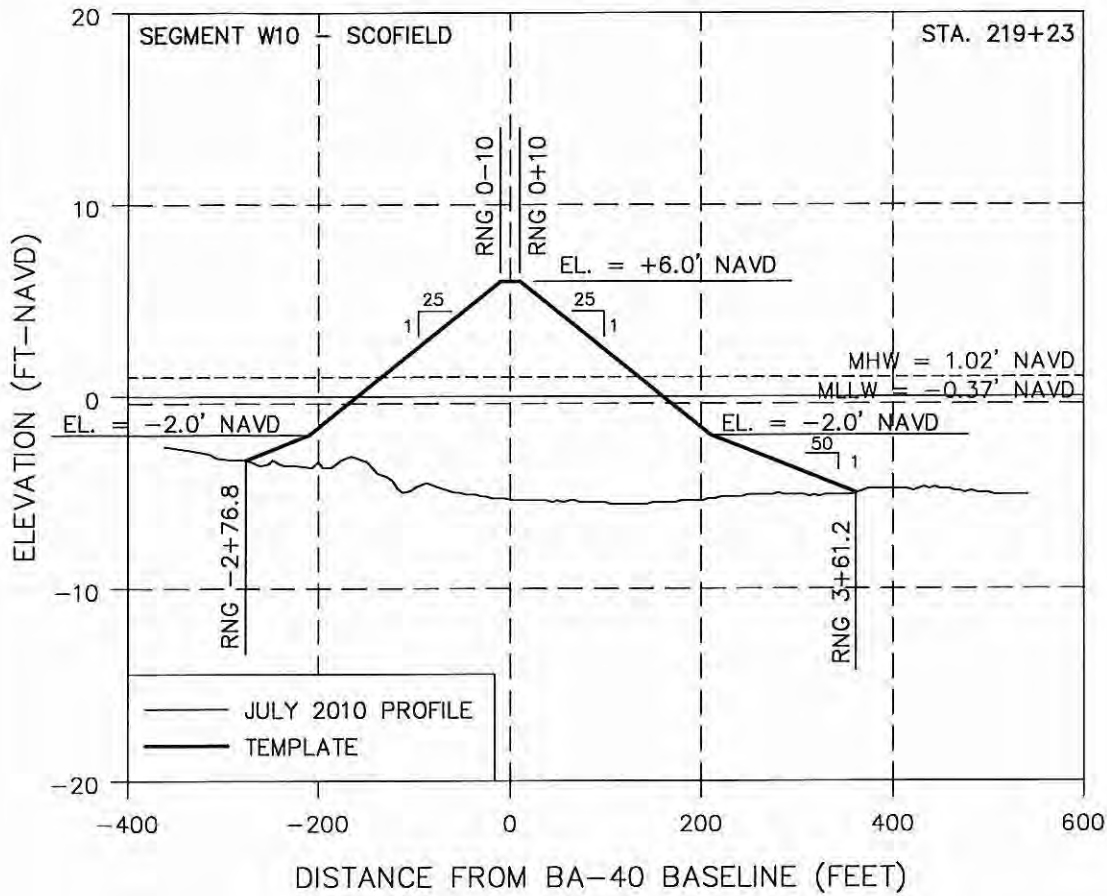
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DESIGNED BY:

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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

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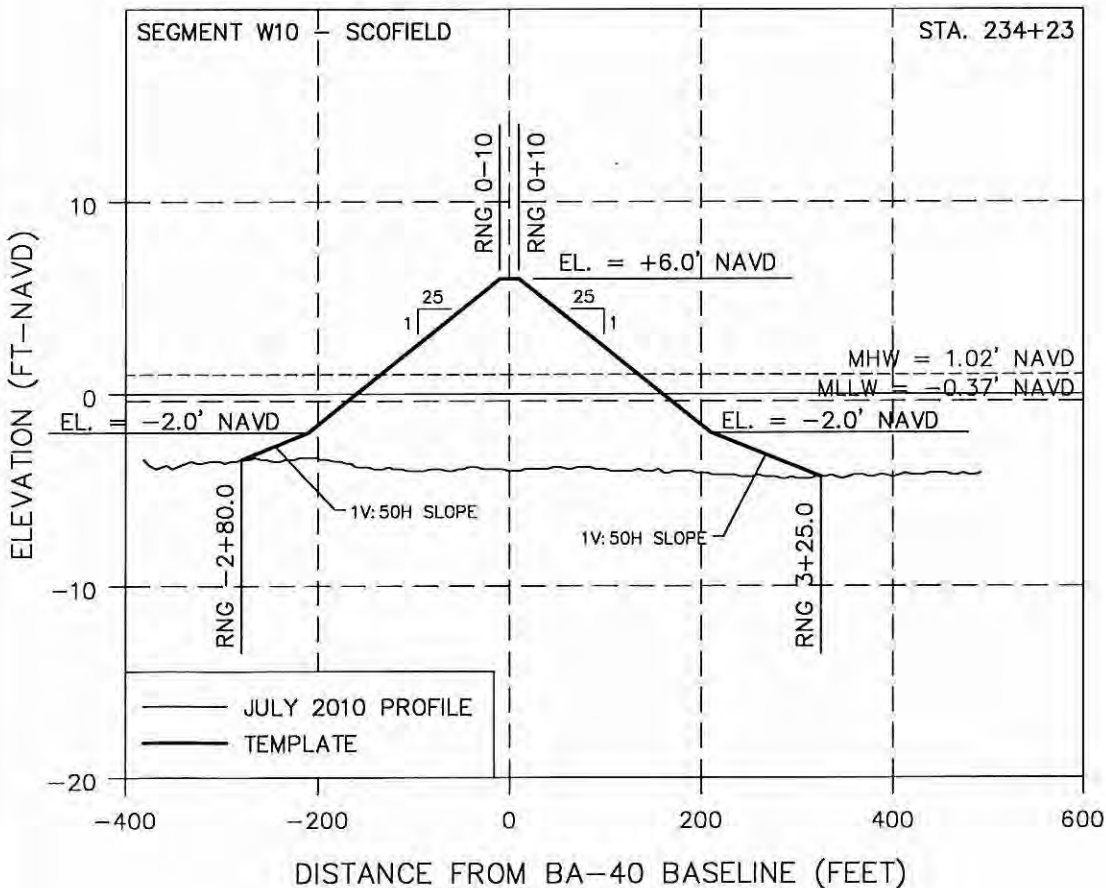
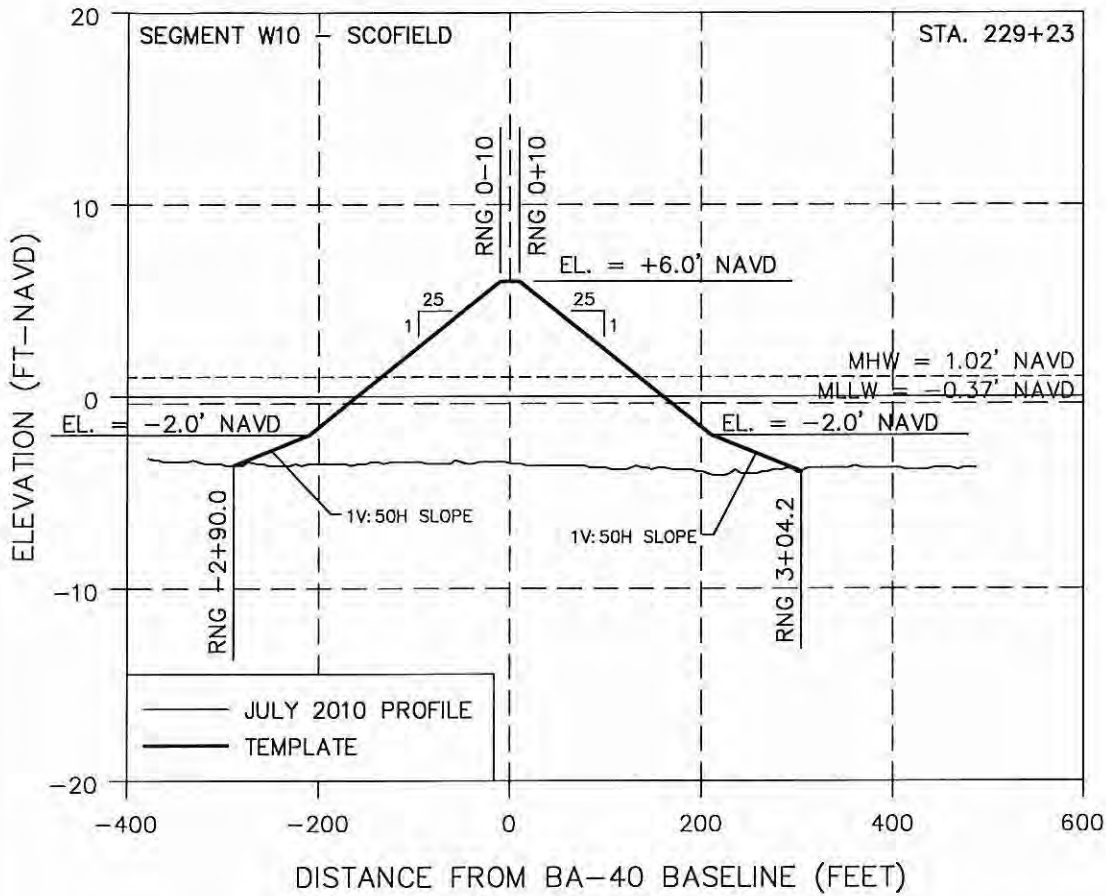
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APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

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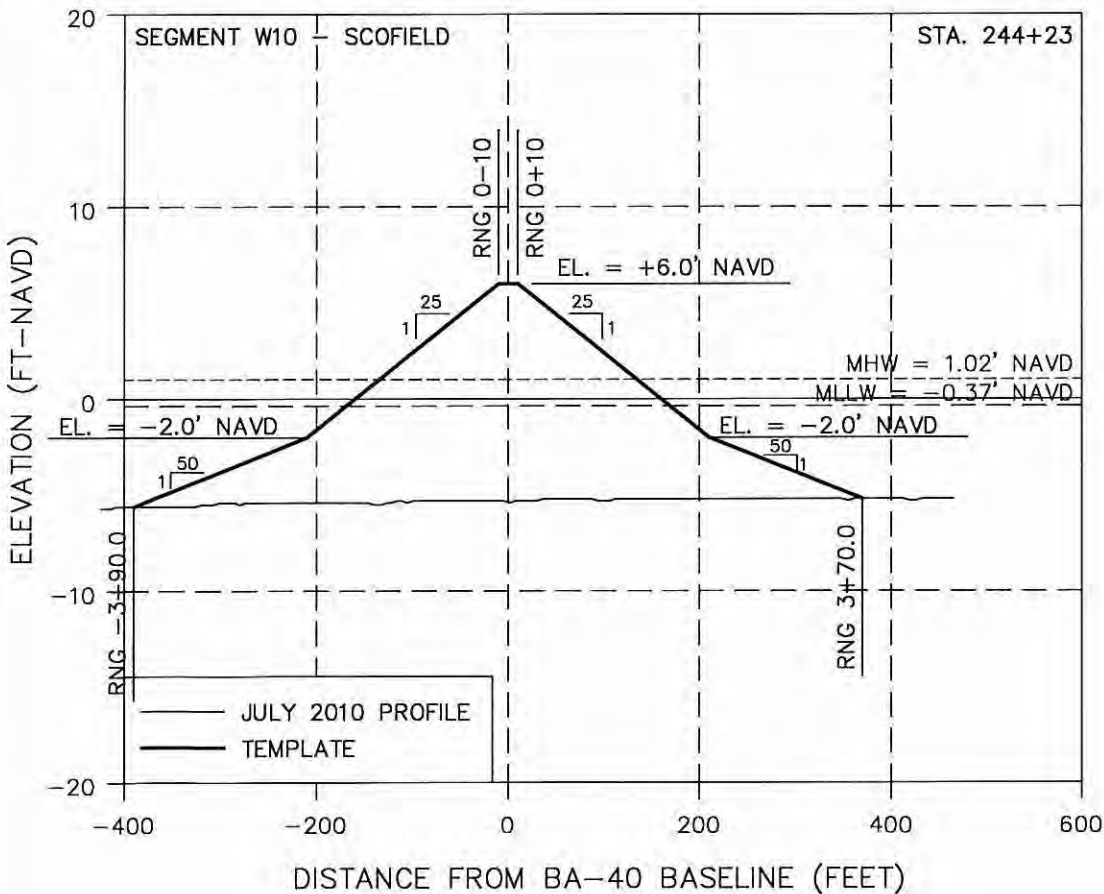
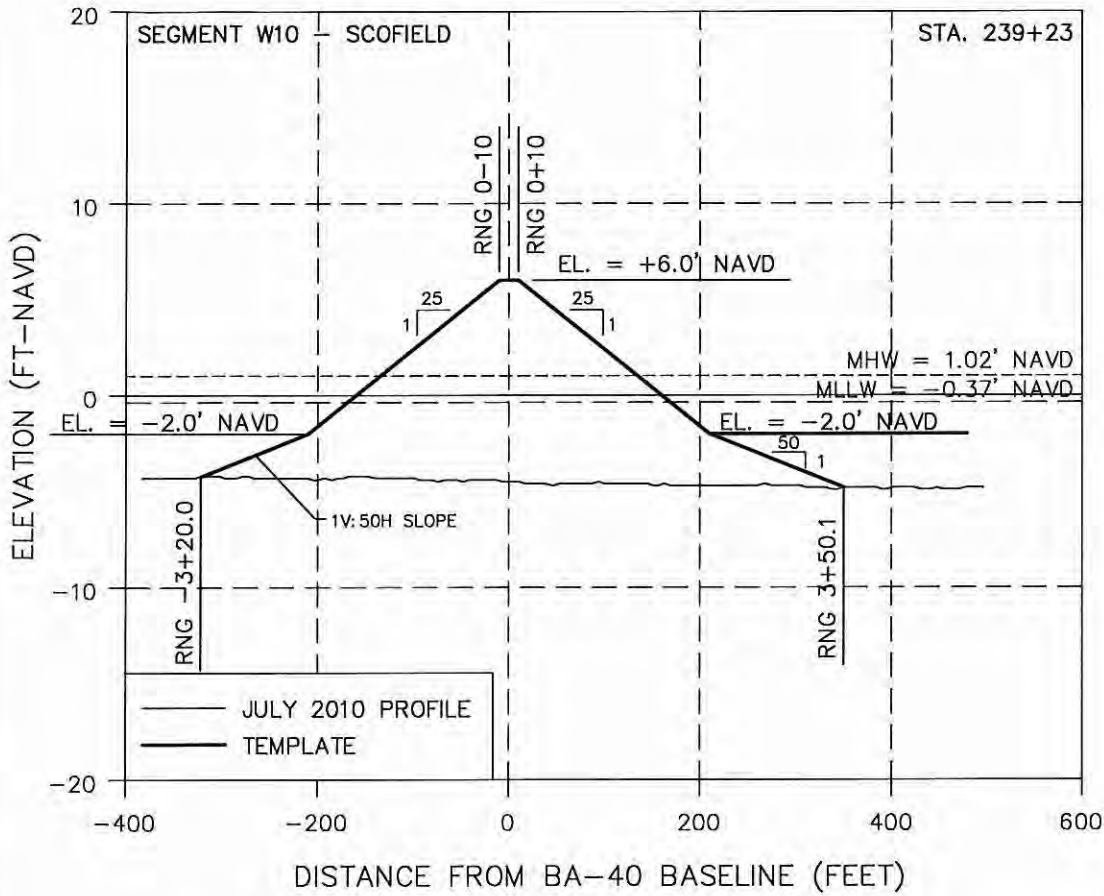
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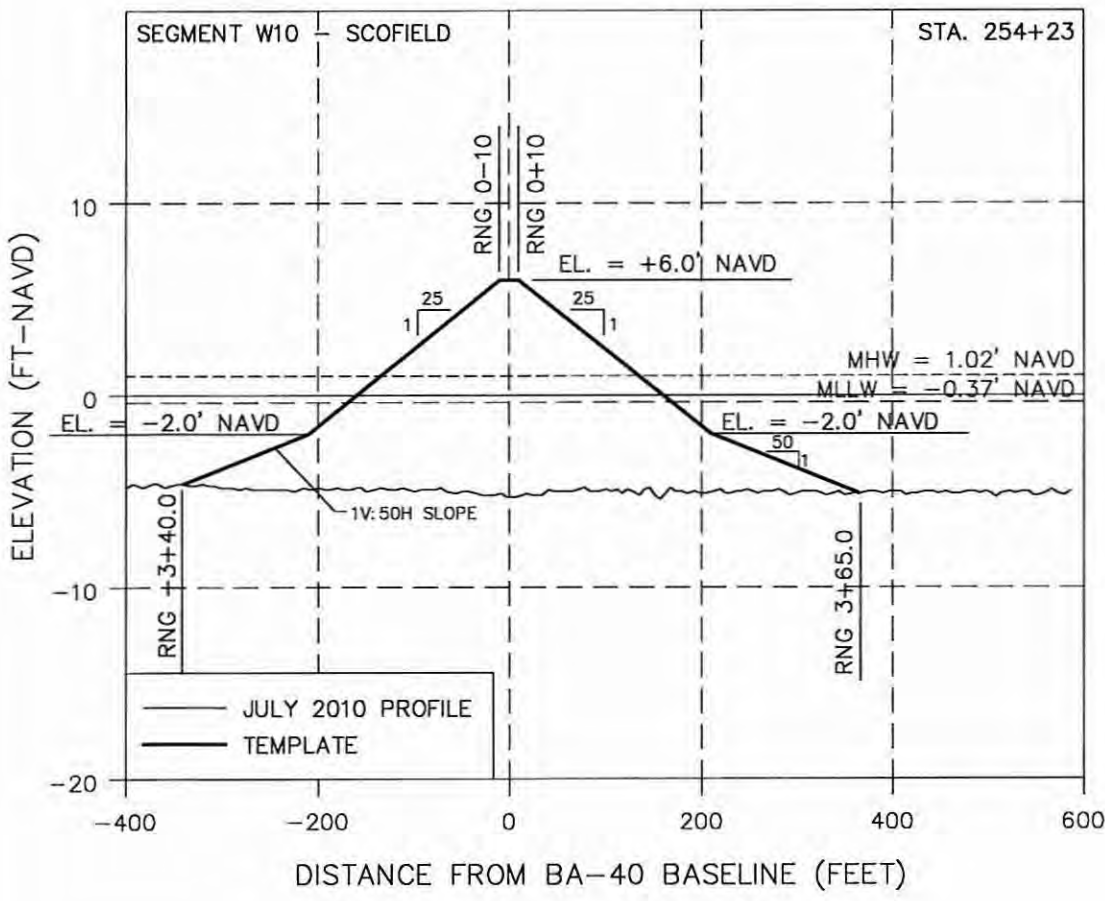
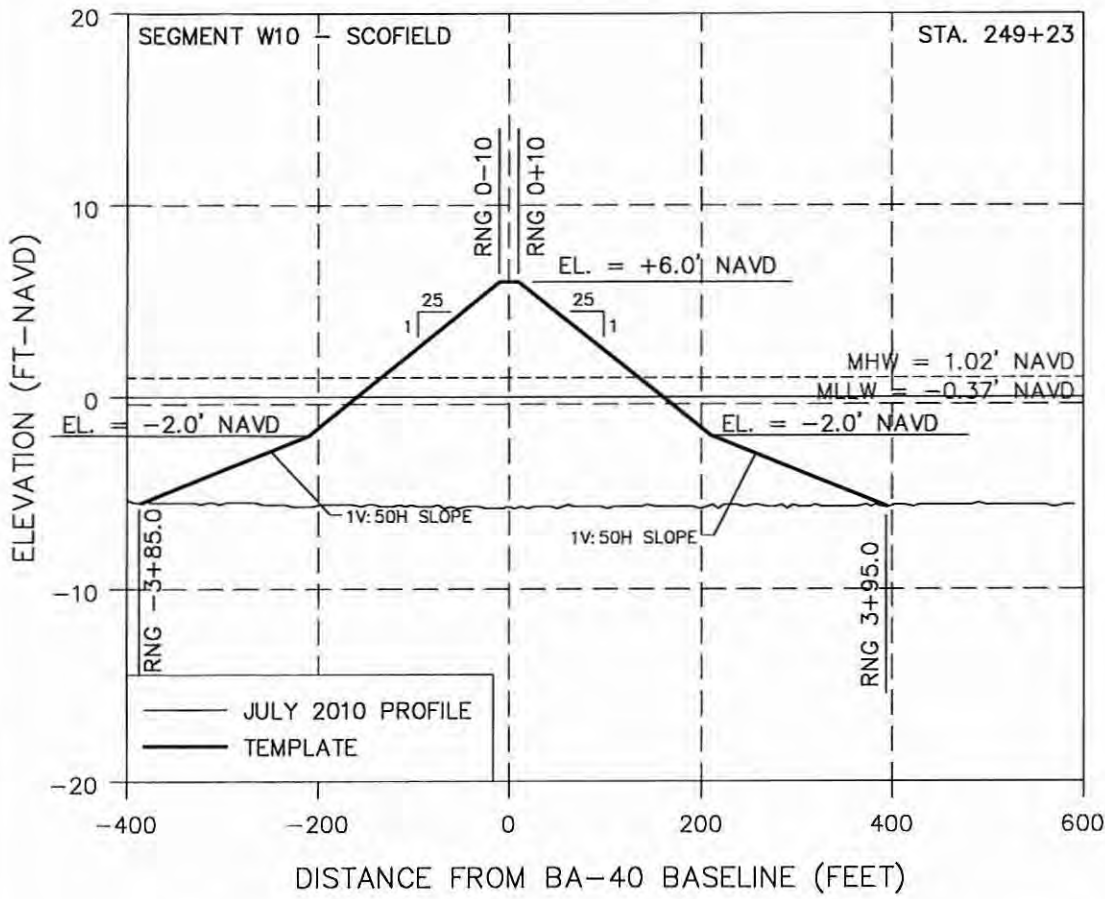
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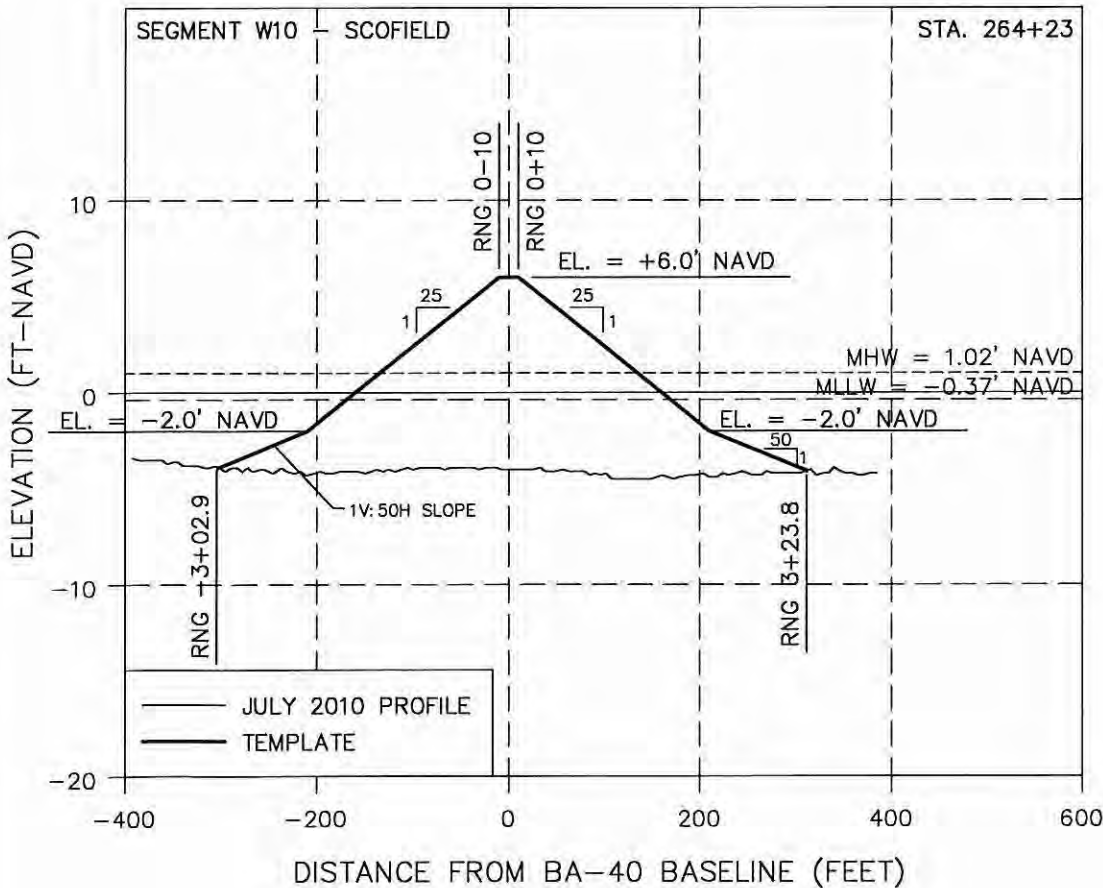
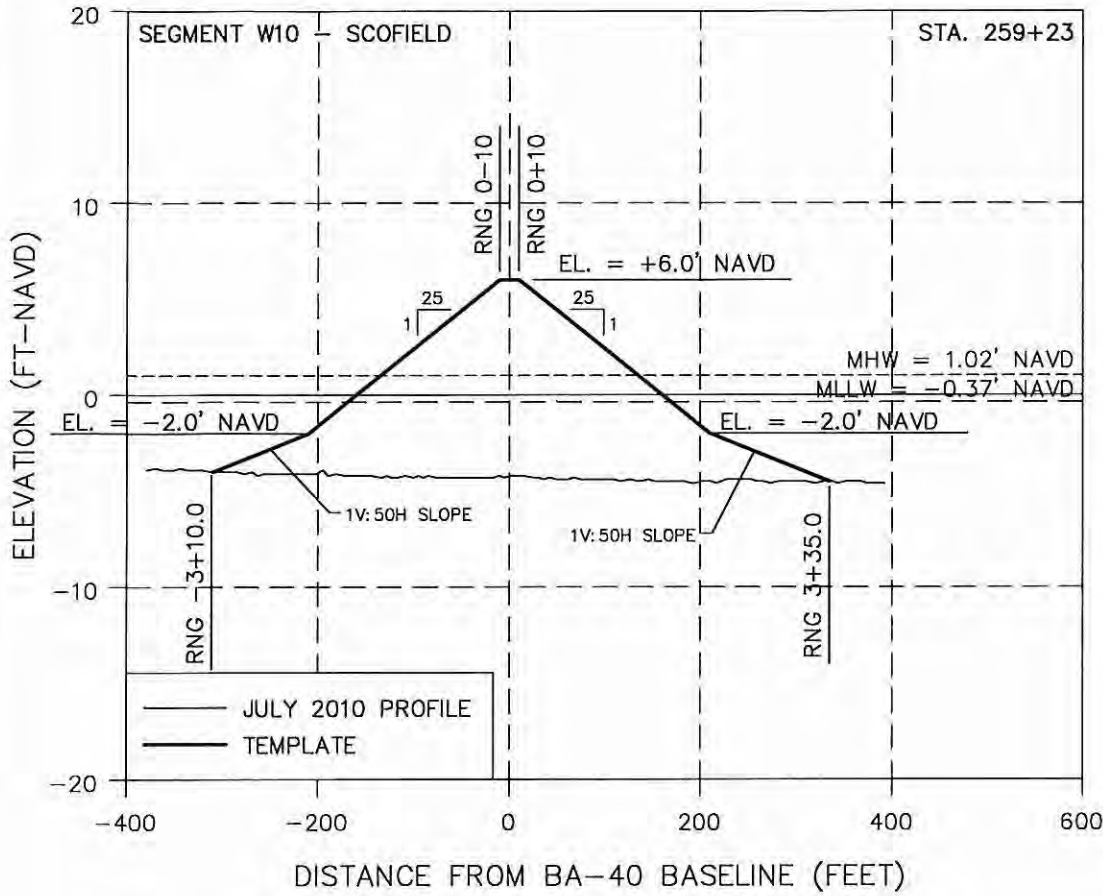


<p>SEGMENT W10 PROFILES</p>	<p>DATE: 10/13/10</p>
<p>BARRIER ISLAND DEFENSE</p>	<p>STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:</p>
<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY:</p>
<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>DESIGNED BY: DRAWN BY:</p>



<p>SEGMENT W10 PROFILES</p>	<p>BARRIER ISLAND DEFENSE</p>	<p>OFFICE OF COASTAL PROTECTION &amp; RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPLICATION BY: OFFICE OF COASTAL PROTECTION &amp; RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
<p>DATE: 10/13/10</p>	<p>STATE PROJECT NUMBER:</p>	<p>DESIGNED BY:</p>	<p>DRAWN BY:</p>
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SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

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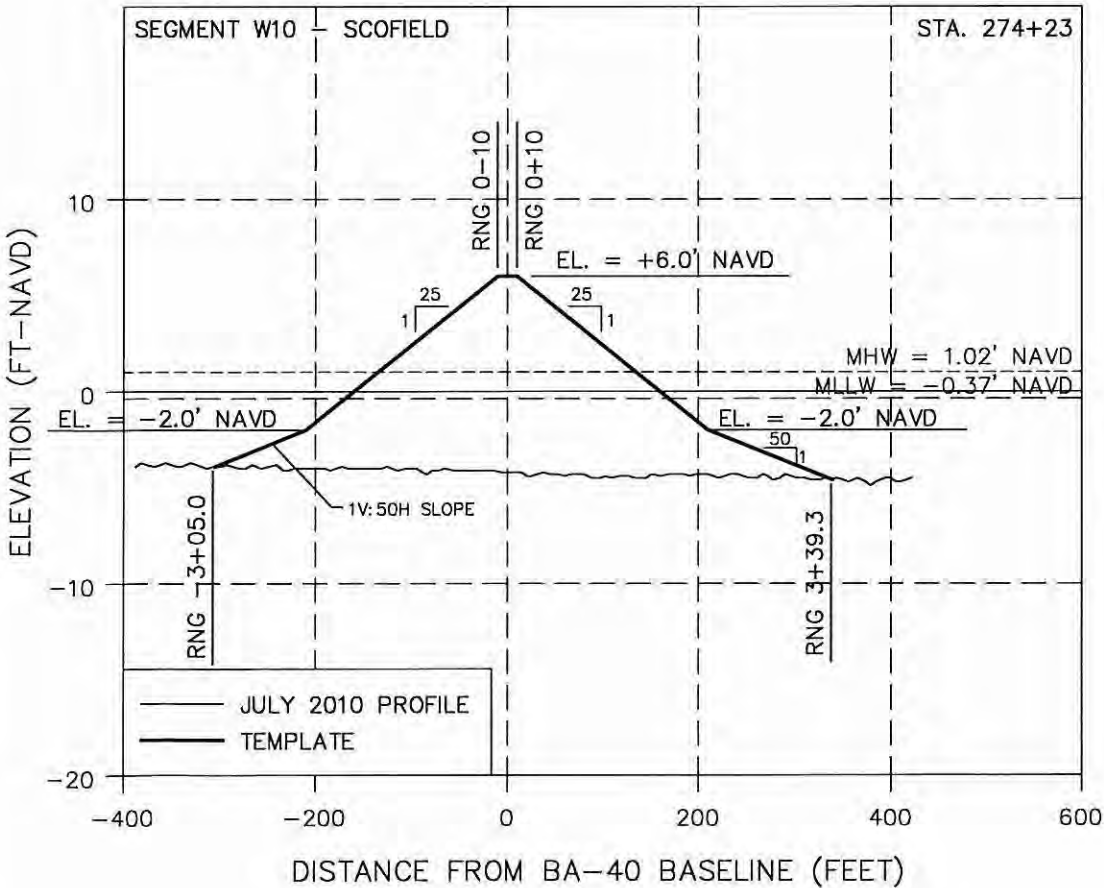
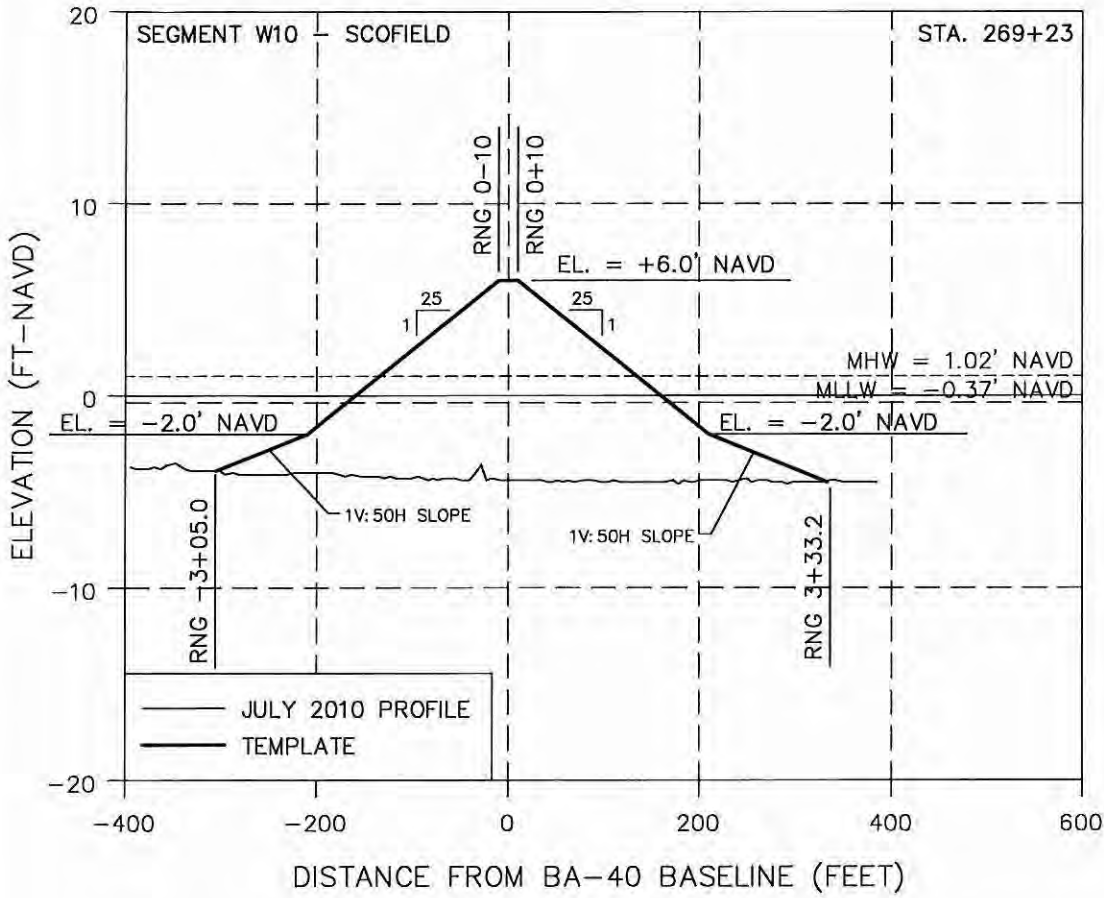
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APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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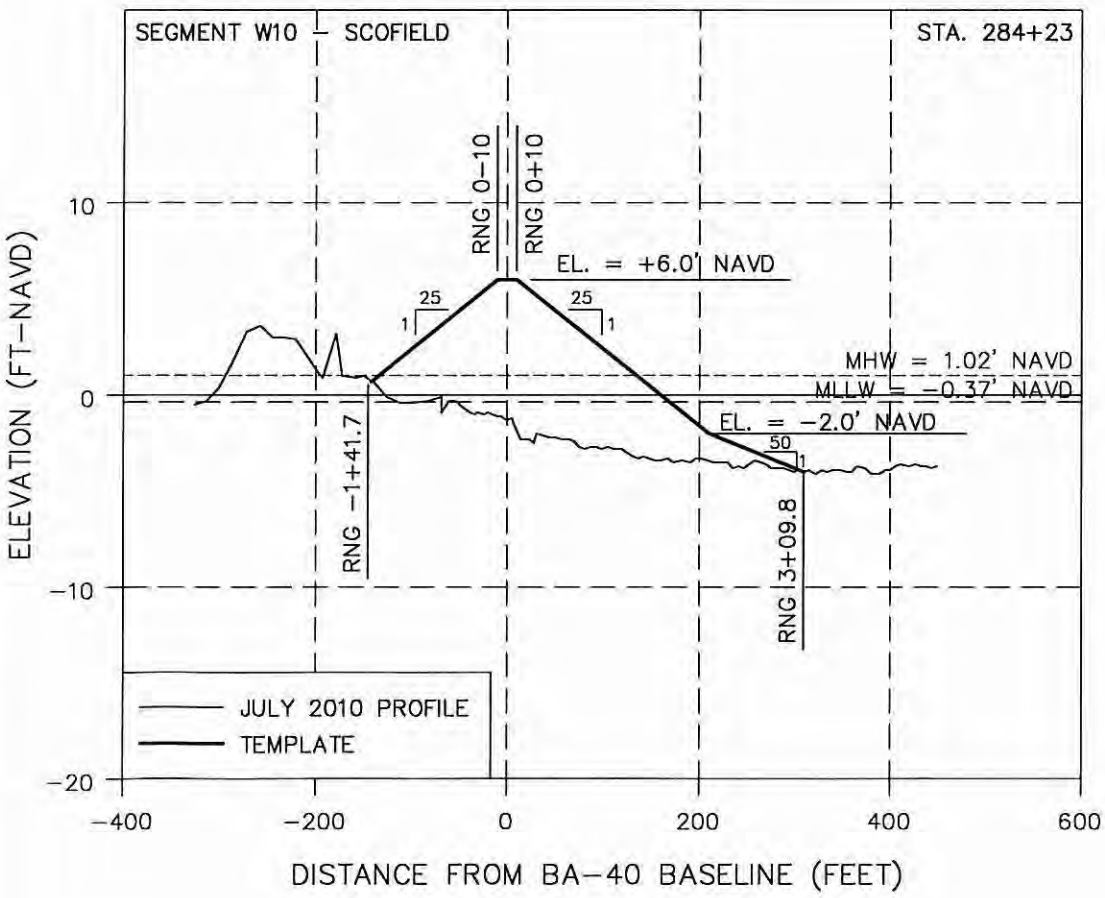
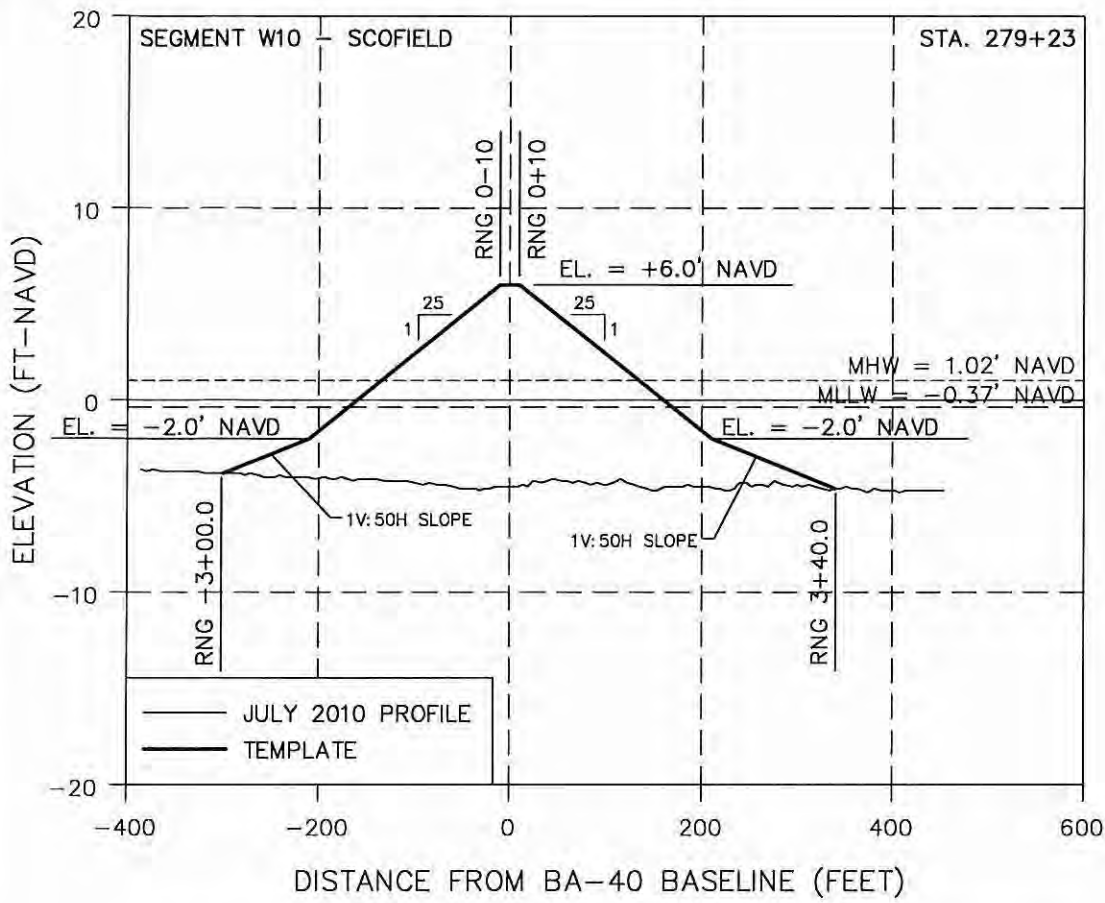
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FEDERAL PROJECT NUMBER:

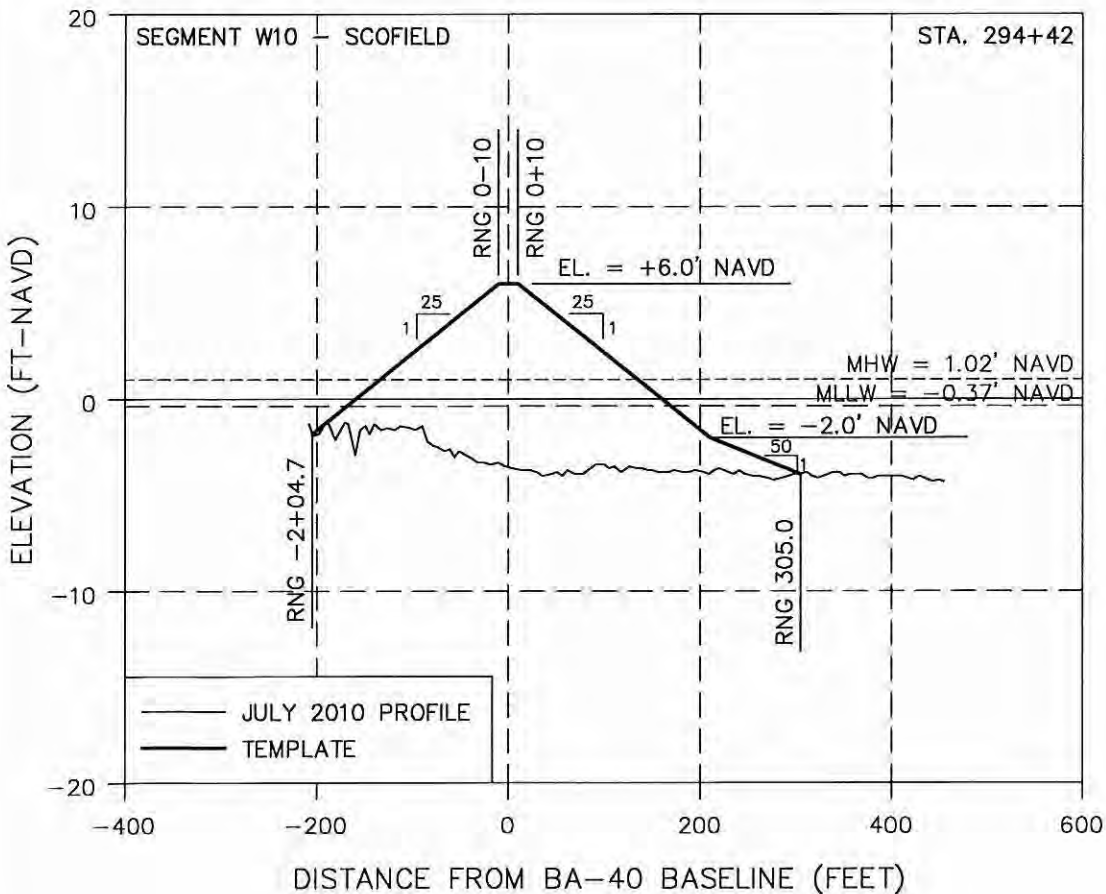
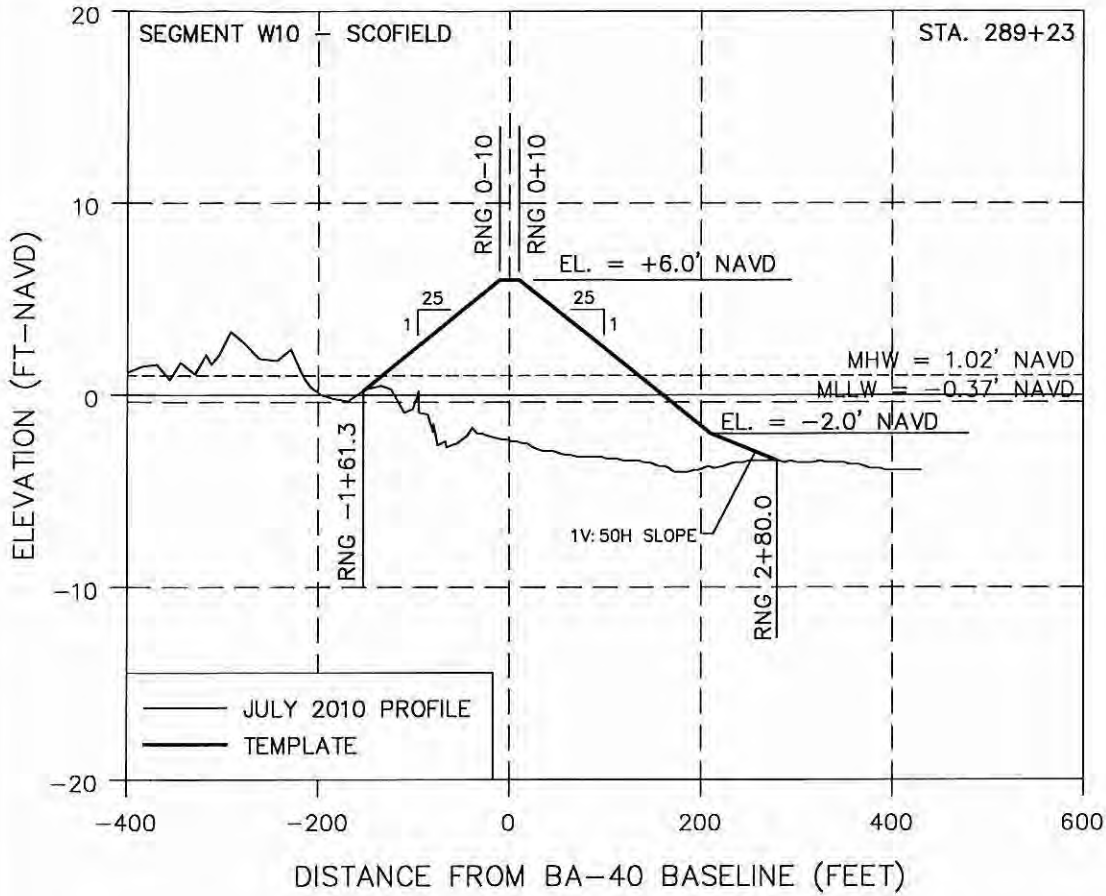
APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W10 PROFILES	DATE: 10/13/10	SHEET 33 OF 34
BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:	APPROVED BY:
	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DRAWN BY:



SEGMENT W10  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 10/13/10

STATE PROJECT NUMBER:

SHEET 34 OF 34

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

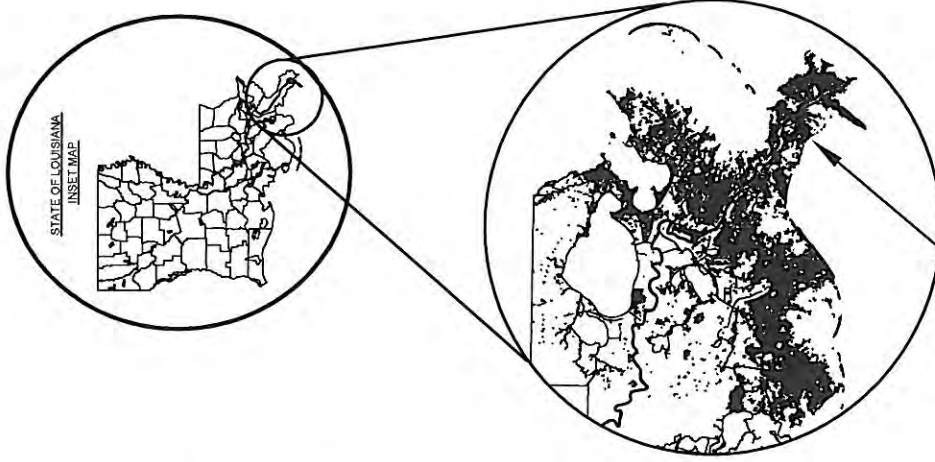
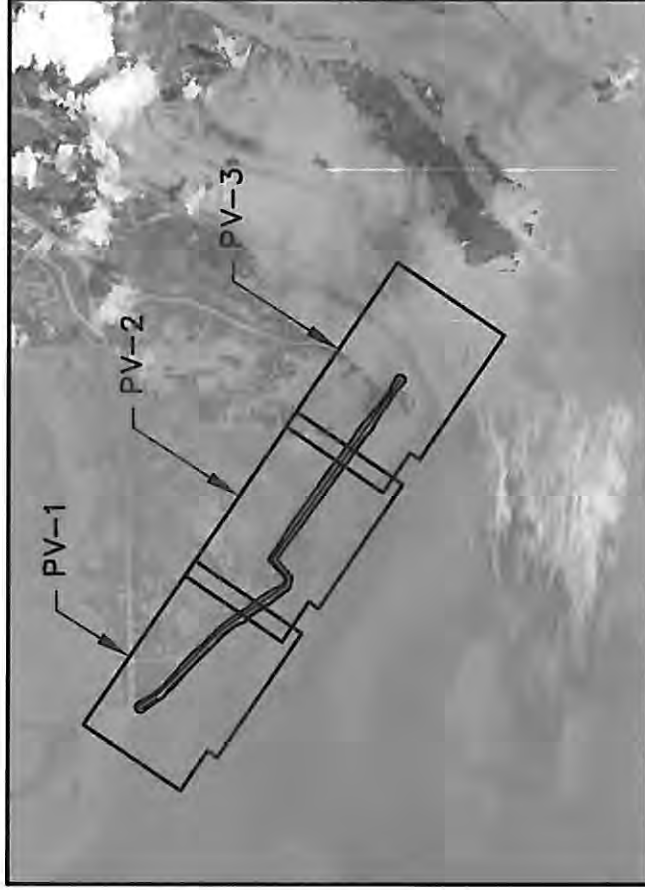
DRAWN BY:

**STATE OF LOUISIANA  
OFFICE OF COASTAL PROTECTION AND RESTORATION  
ENGINEERING BRANCH**

**INDEX TO SHEETS**

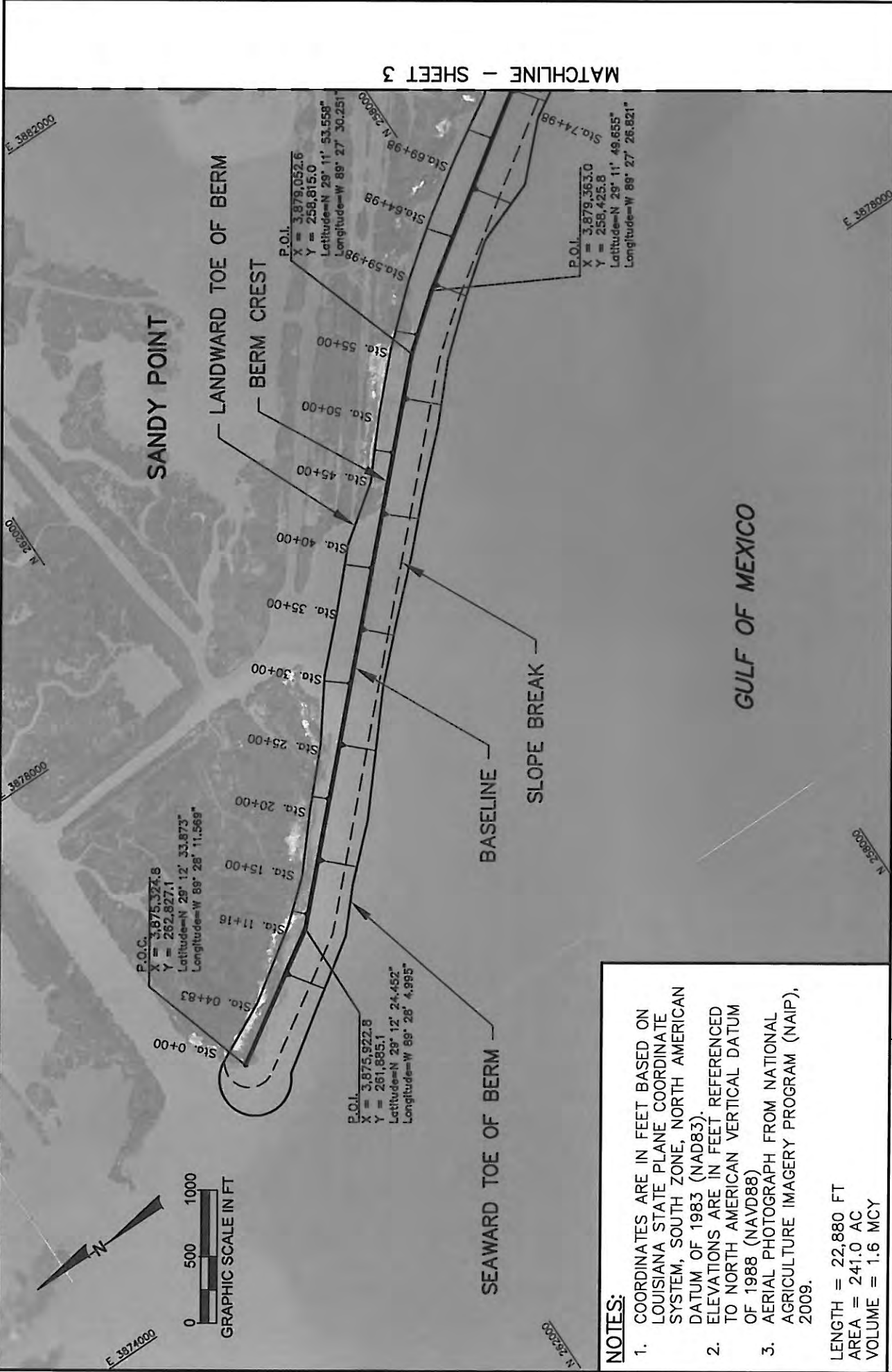
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	PLAN VIEWS
5-27	PROFILES

**SEGMENT W11  
SANDY POINT**

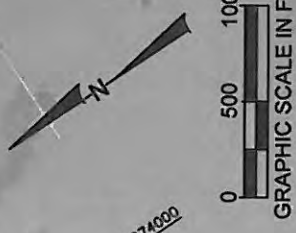


PROJECT LOCATION

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 TITLE SHEET
		DESIGNED BY:	APPROVED BY:
DRAWN BY:	STATE PROJECT NUMBER:	FEDERAL PROJECT NUMBER:	DATE: 09/17/10 SHEET 1 OF 27



MATCHLINE - SHEET 3



**NOTES:**

- COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

LENGTH = 22,880 FT  
 AREA = 241.0 AC  
 VOLUME = 1.6 MCY

APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	DATE: 09/17/10 SHEET 2 OF 27
STATE PROJECT NUMBER:		FEDERAL PROJECT NUMBER:	

**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

LENGTH = 22,880 FT  
 AREA = 241.0 AC  
 VOLUME = 1.6 MCY

MATCHLINE - SHEET 2

MATCHLINE - SHEET 4

**SANDY POINT**

**GULF OF MEXICO**

BERM CREST

LANDWARD TOE OF BERM

SLOPE BREAK

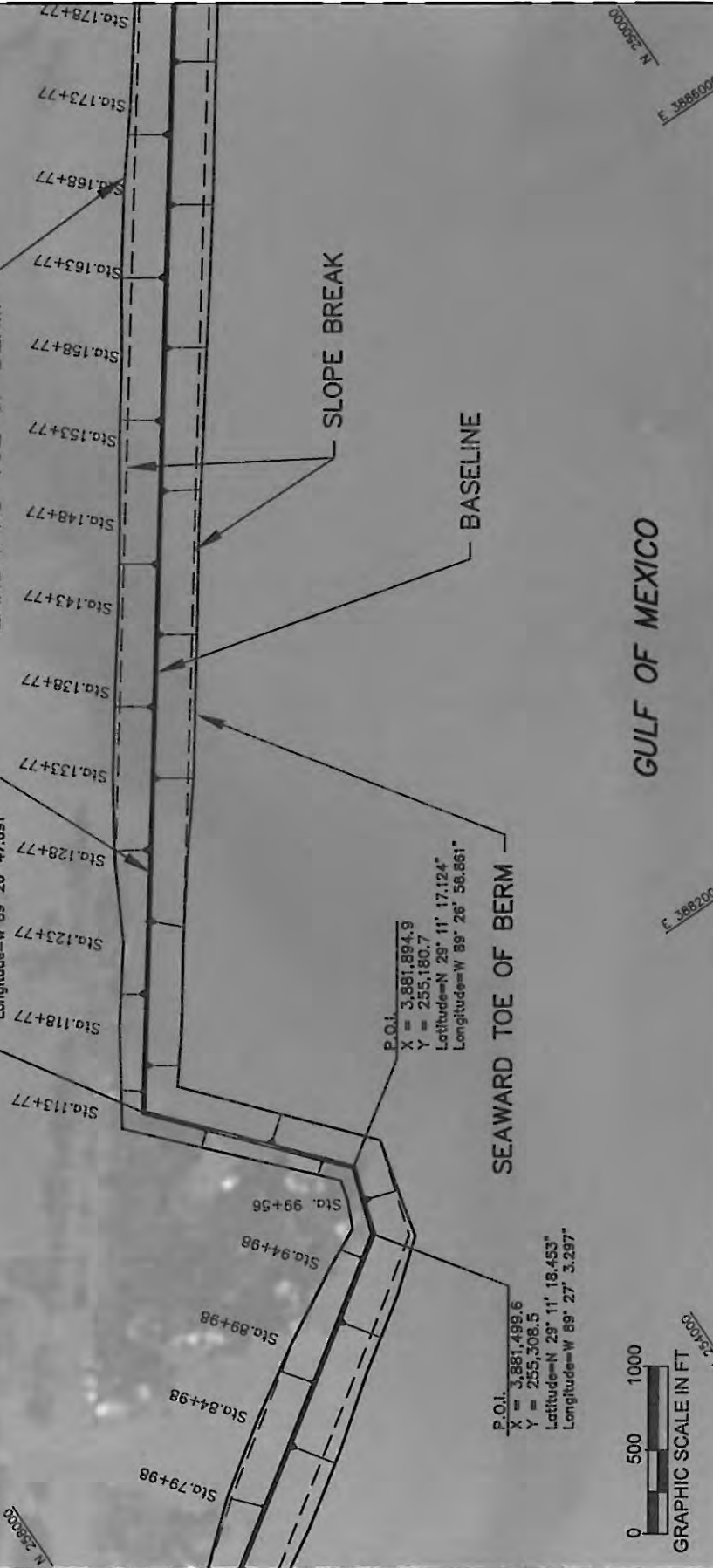
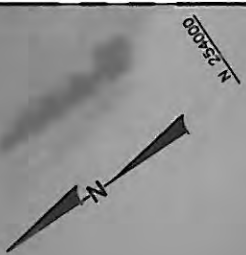
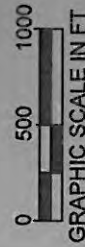
BASELINE

SEAWARD TOE OF BERM

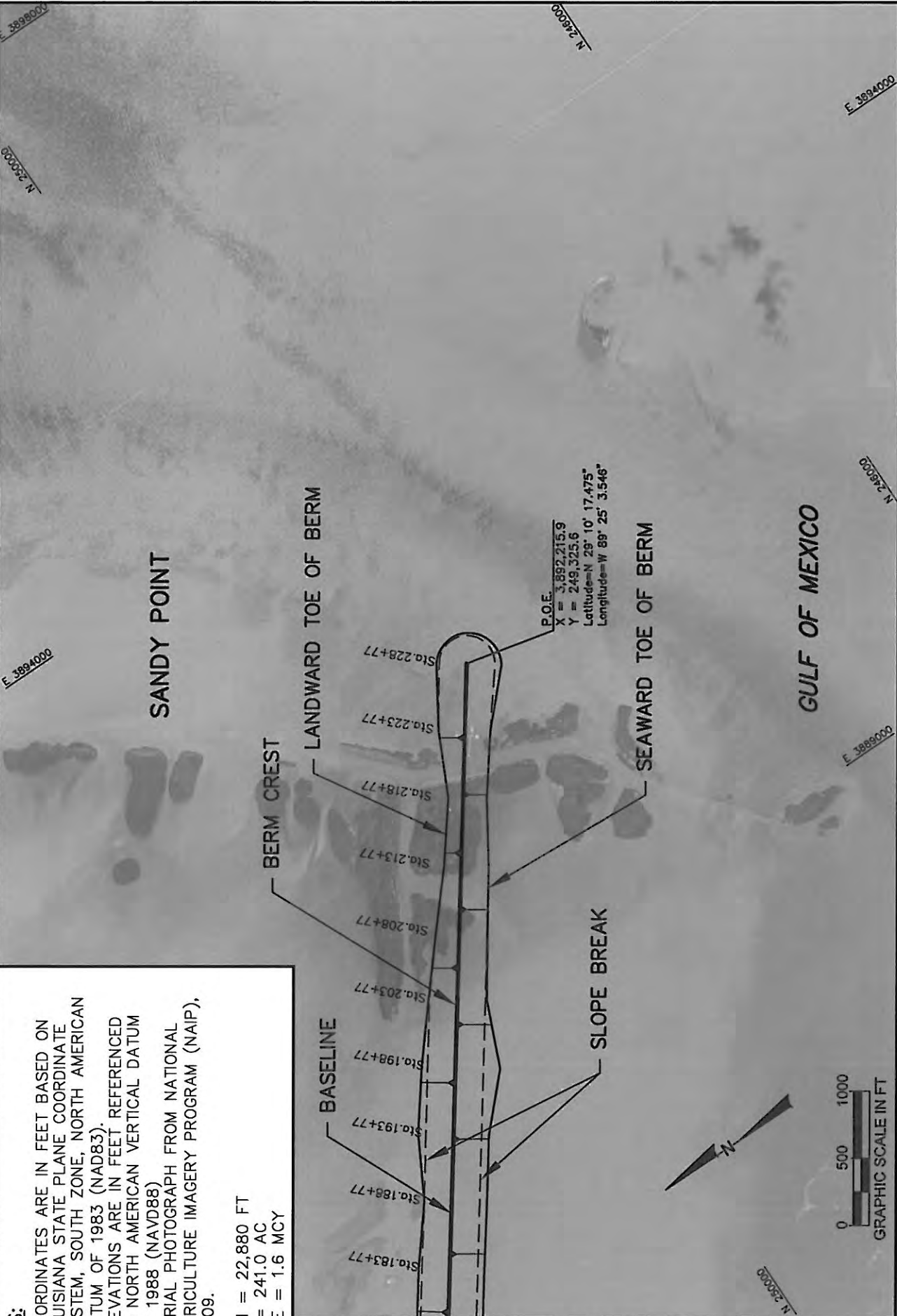
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 Longitude=W 89° 26' 47.691"

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P.O.I.  
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 Y = 255,308.5  
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 Longitude=W 89° 27' 3.297"



APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BARRIER ISLAND DEFENSE	SEGMENT W11 PLAN VIEW
DRAWN BY:	DESIGNED BY:	APPROVED BY:	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
DATE: 09/08/10		SHEET 3 OF 27	



**NOTES:**

1. COORDINATES ARE IN FEET BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE; NORTH AMERICAN DATUM OF 1983 (NAD83).
2. ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. AERIAL PHOTOGRAPH FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP), 2009.

LENGTH = 22,880 FT  
 AREA = 241.0 AC  
 VOLUME = 1.6 MCY

MATCHLINE - SHEET 3

APPLICATION BY:  
 OFFICE OF COASTAL PROTECTION & RESTORATION  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

BARRIER ISLAND  
 DEFENSE

SEGMENT W11  
 PLAN VIEW

DRAWN BY:

DESIGNED BY:

APPROVED BY:

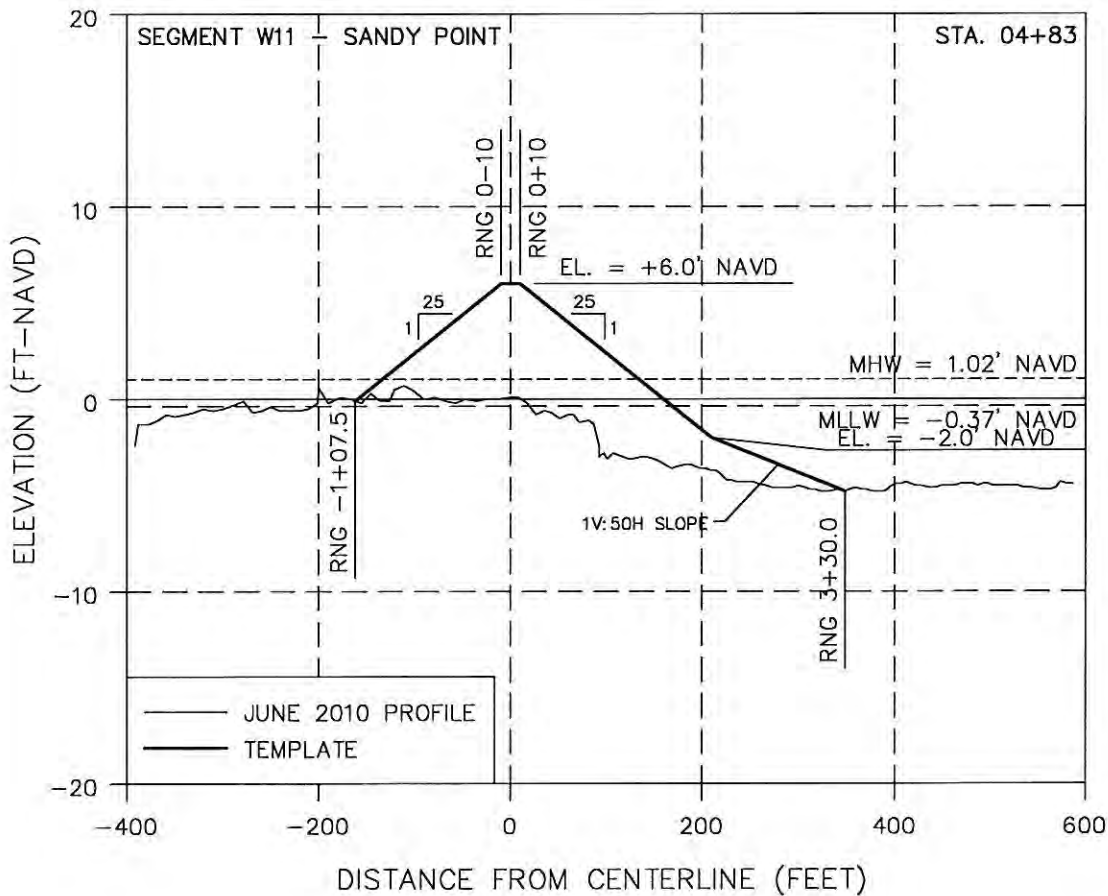
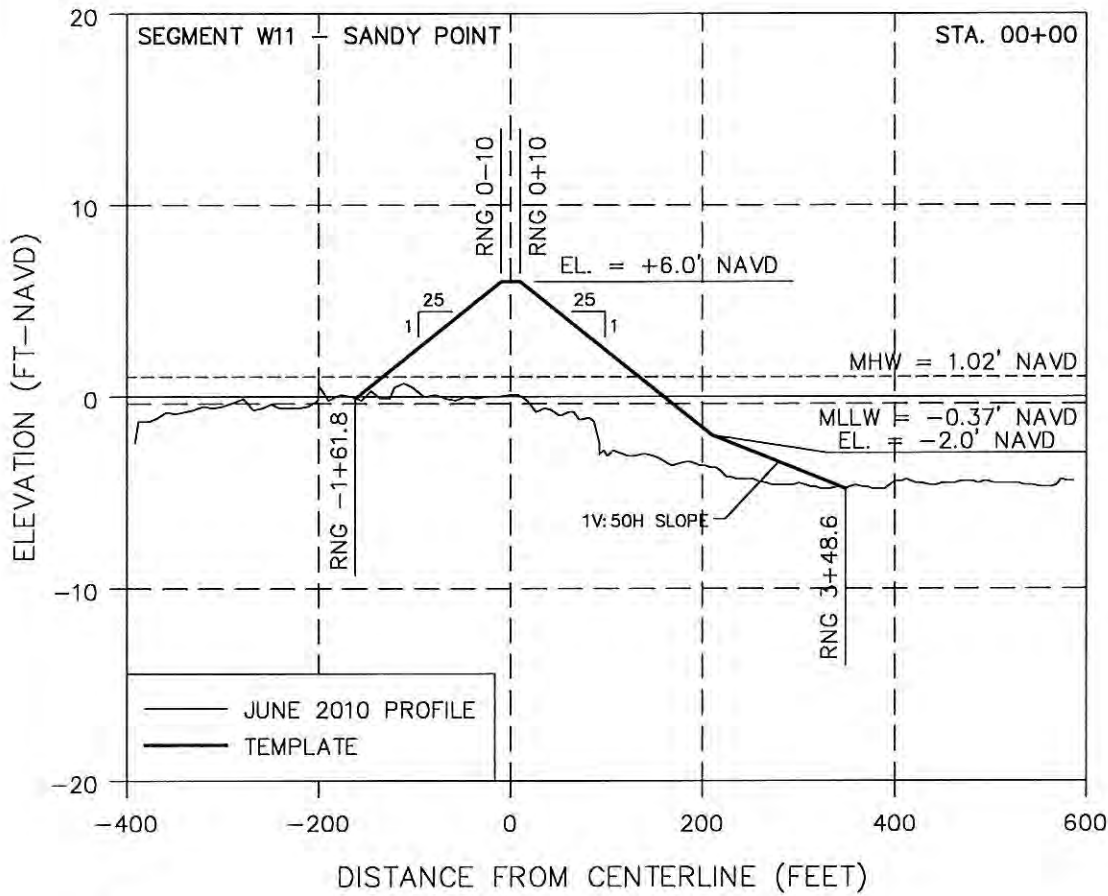
STATE PROJECT NUMBER:

DATE: 09/17/10

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SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

SHEET 5 OF 27

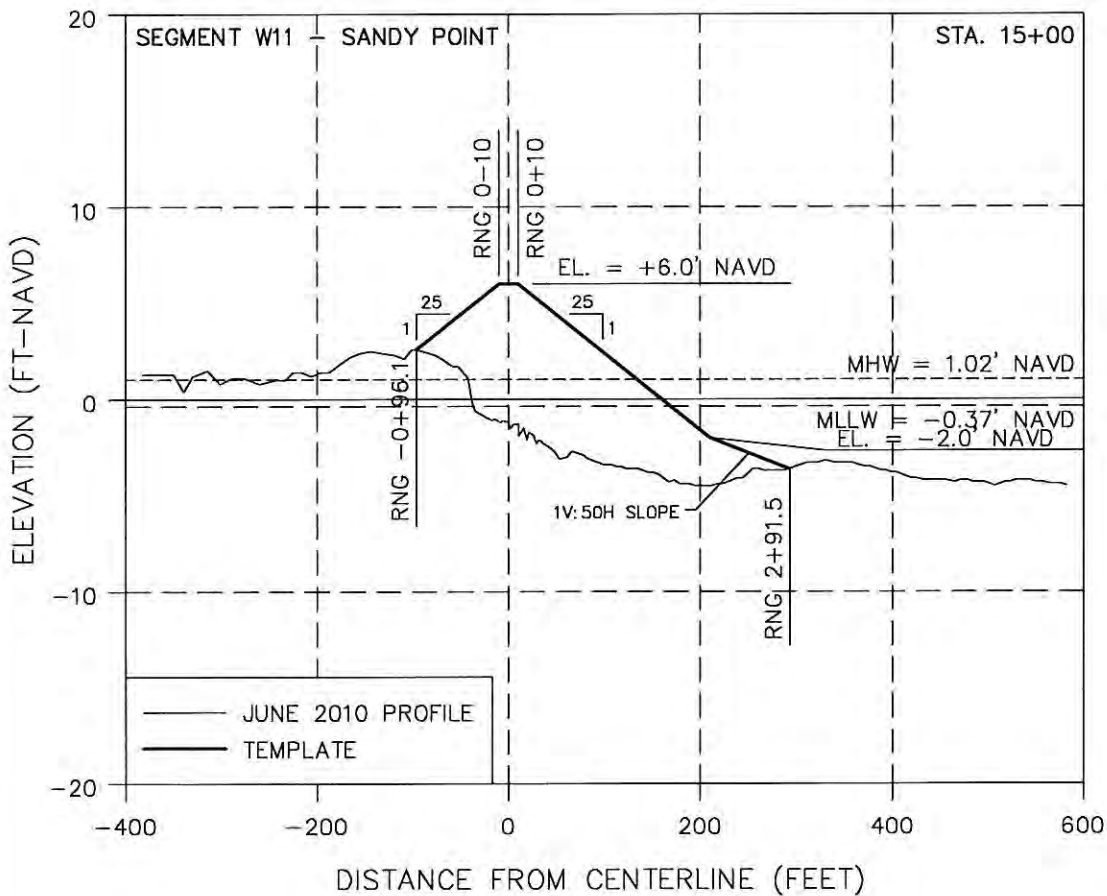
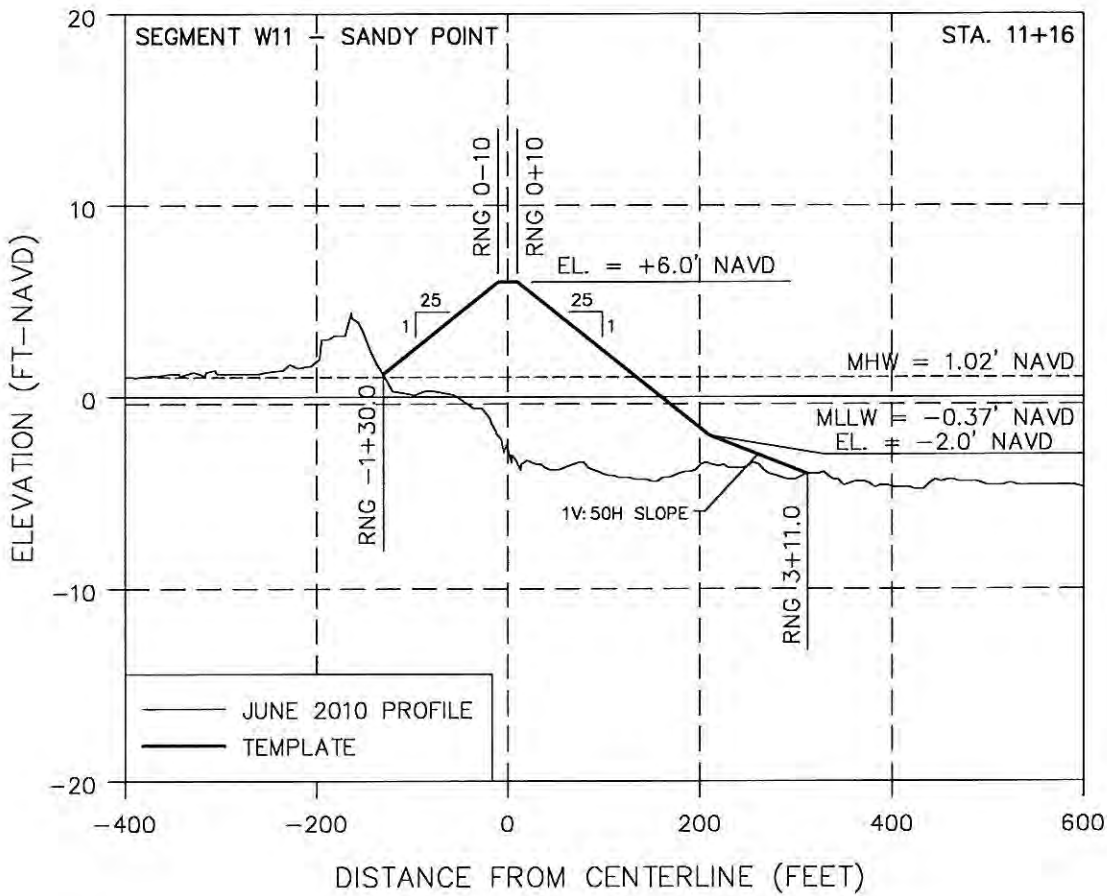
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

STATE PROJECT NUMBER:

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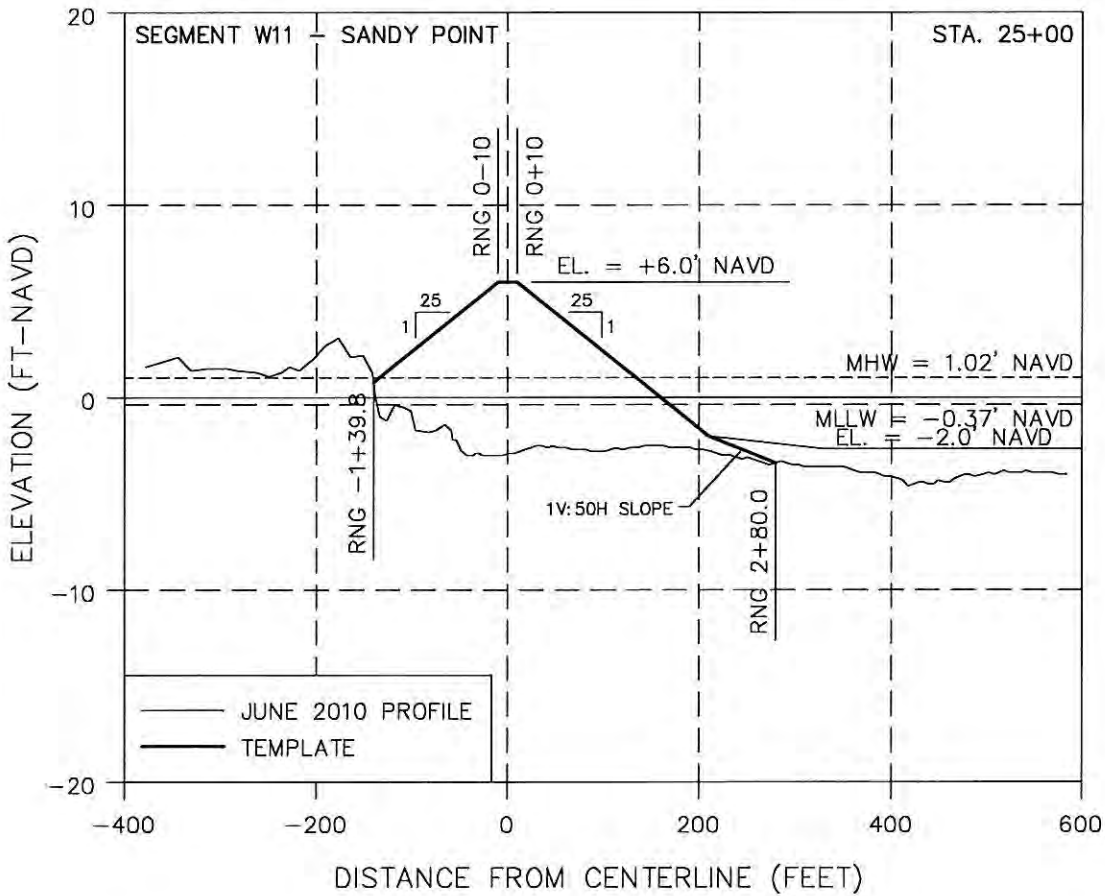
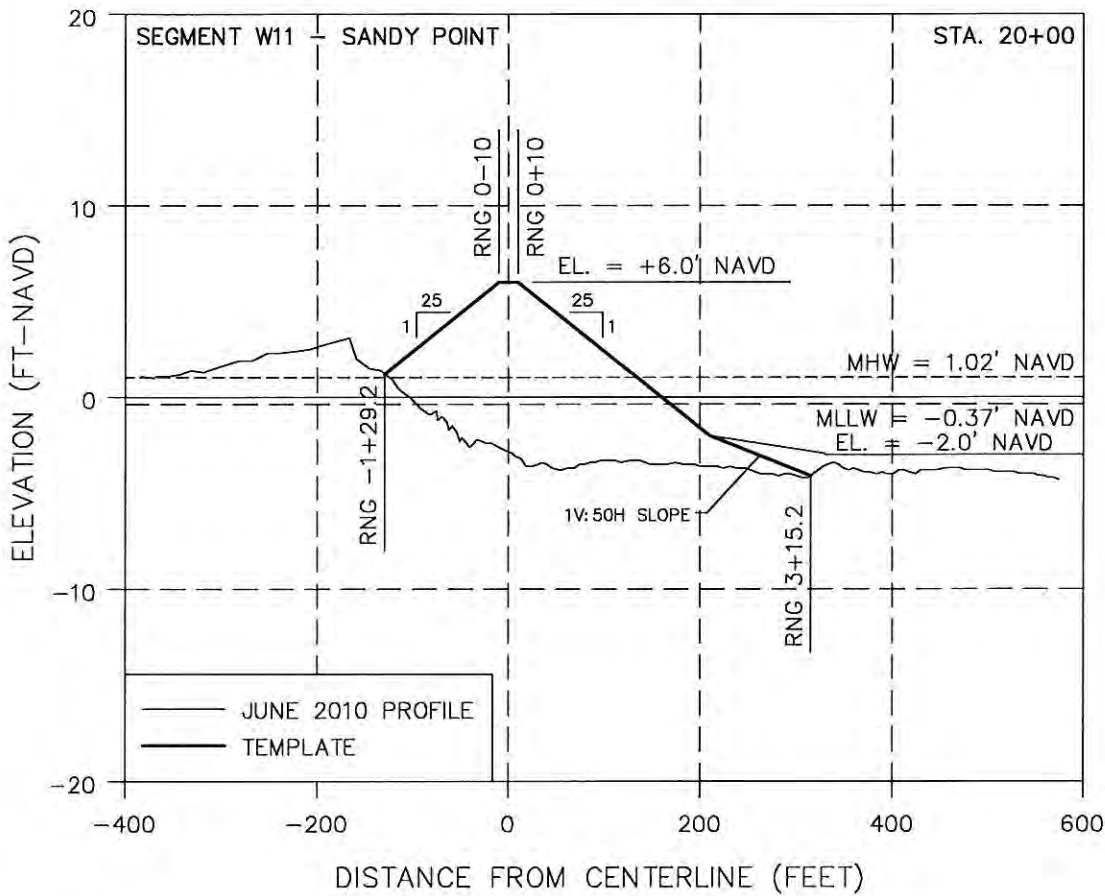
SHEET 6 OF 27

DESIGNED BY:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

DATE: 08/17/10

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BARRIER ISLAND  
DEFENSE

STATE PROJECT NUMBER:

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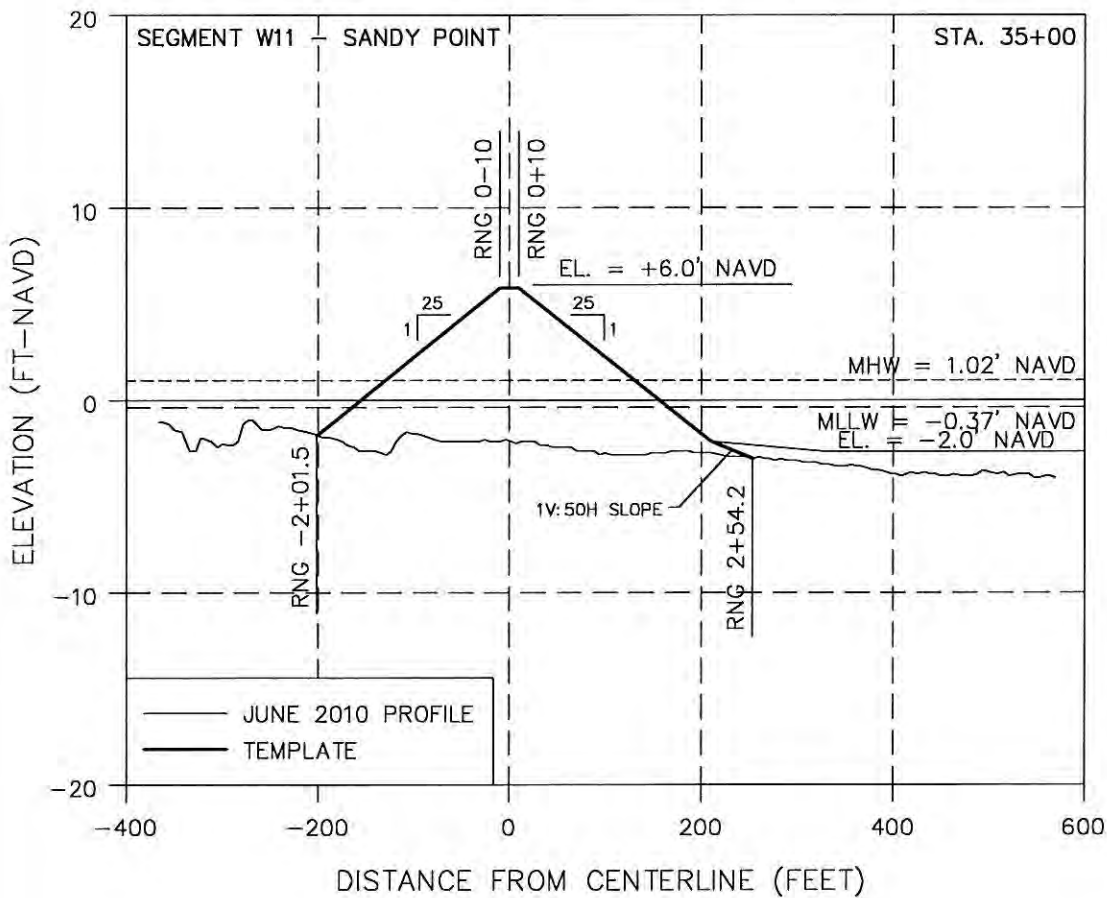
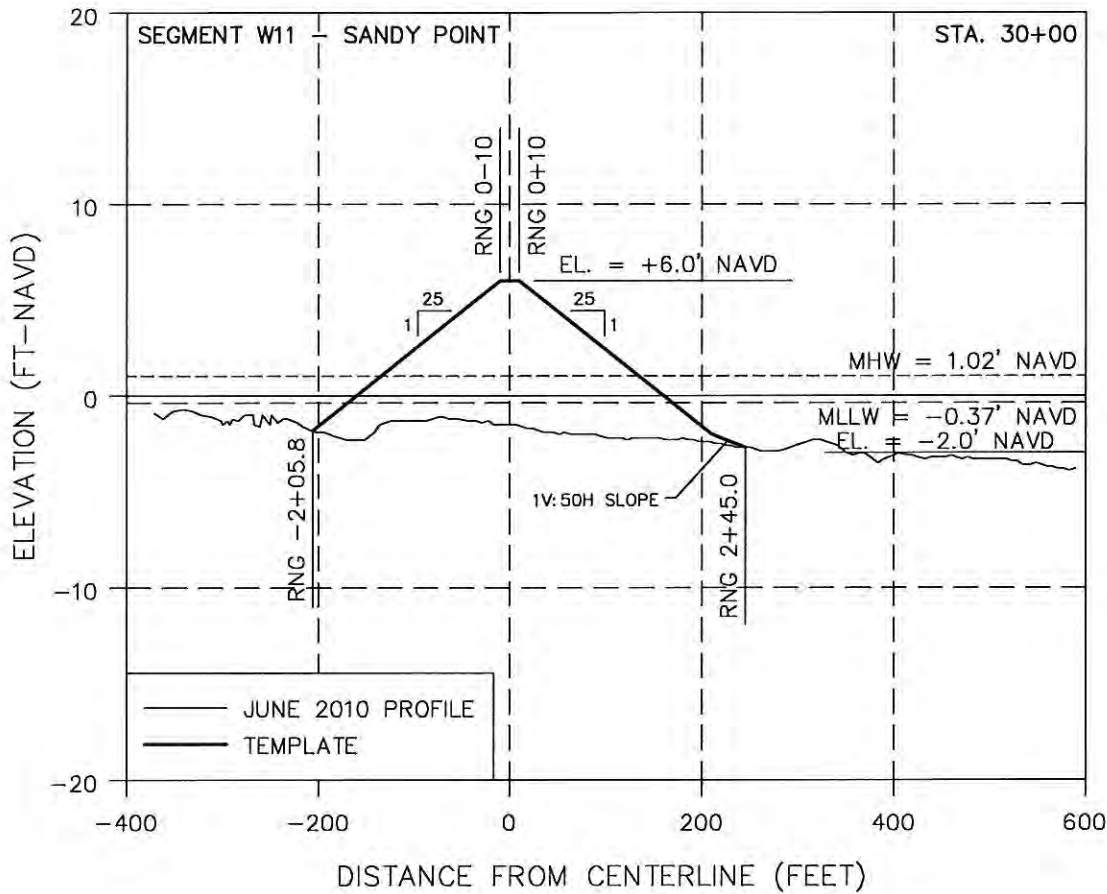
OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

DESIGNED BY:

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

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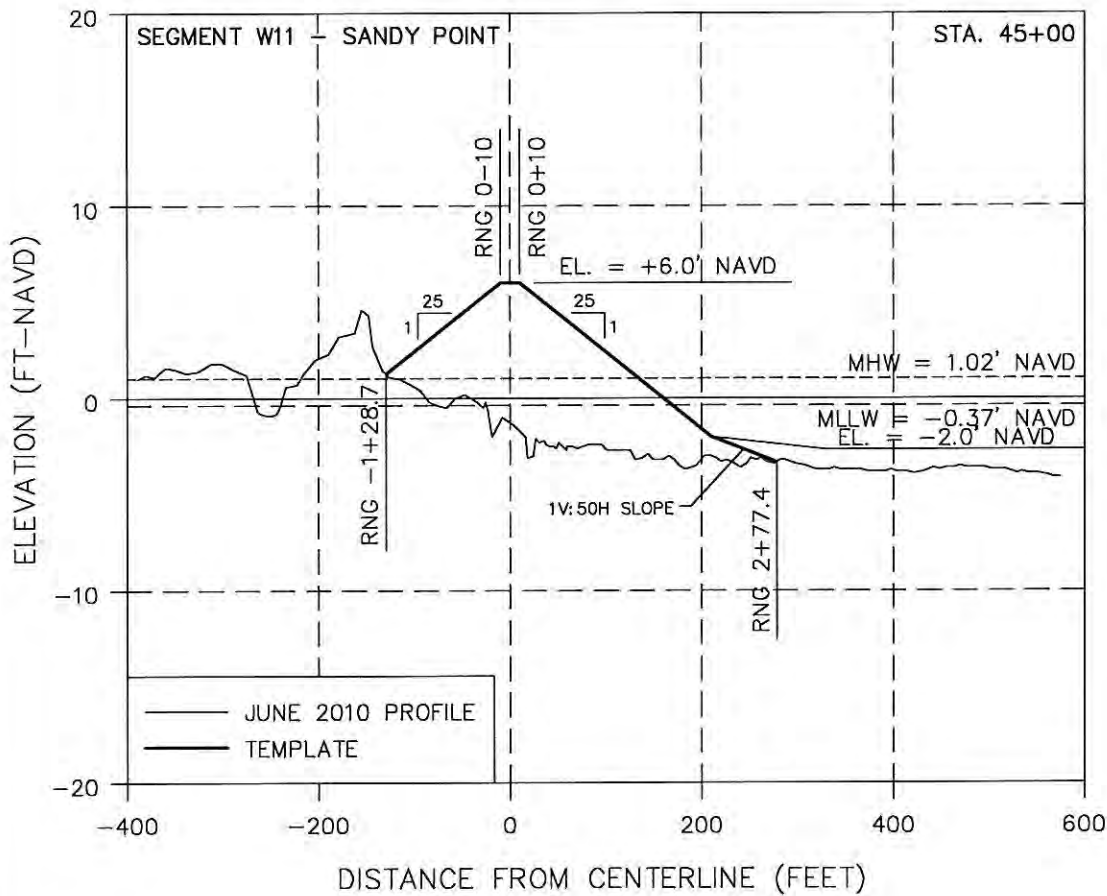
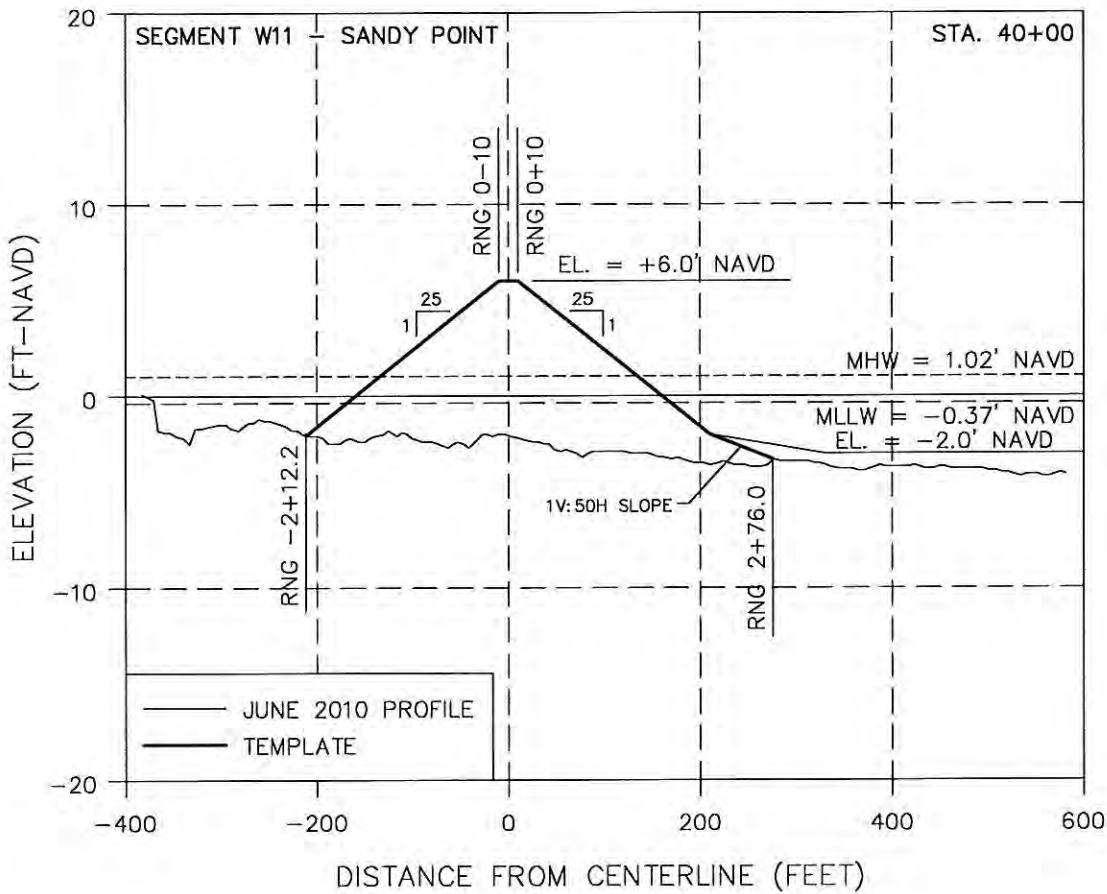
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

STATE PROJECT NUMBER:

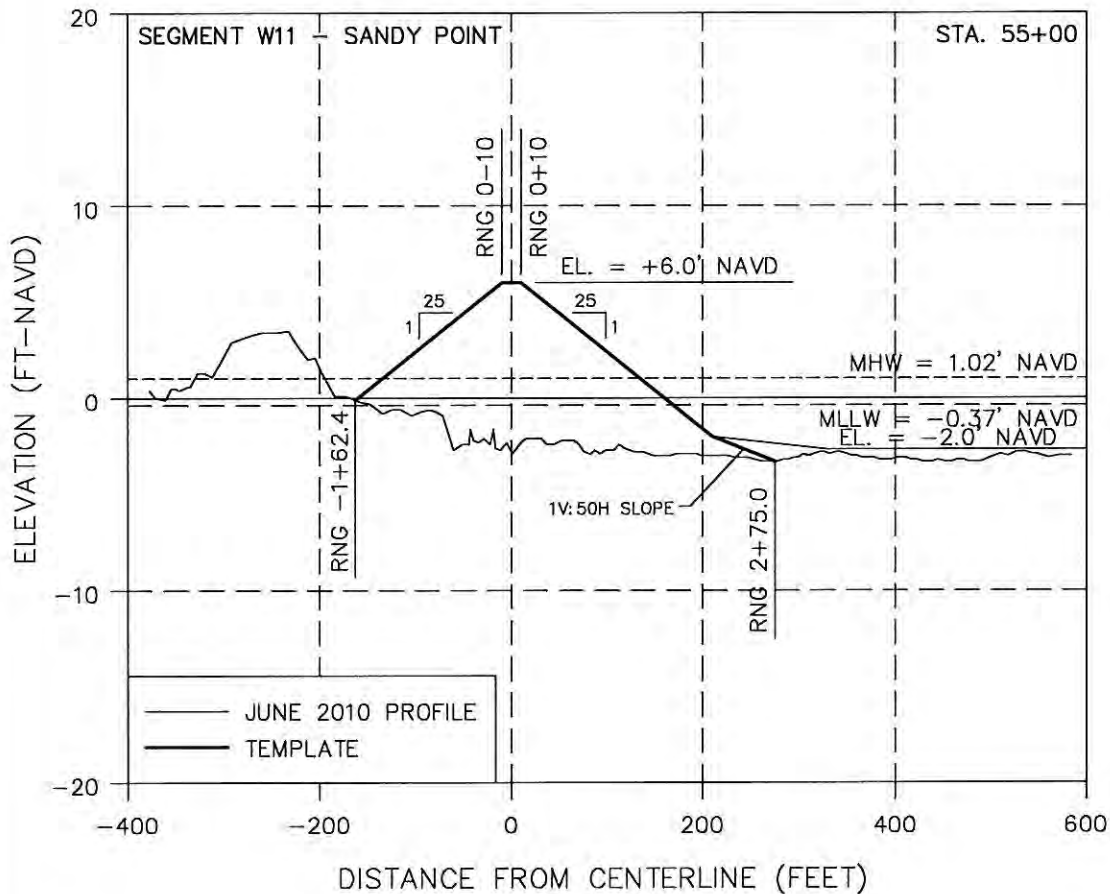
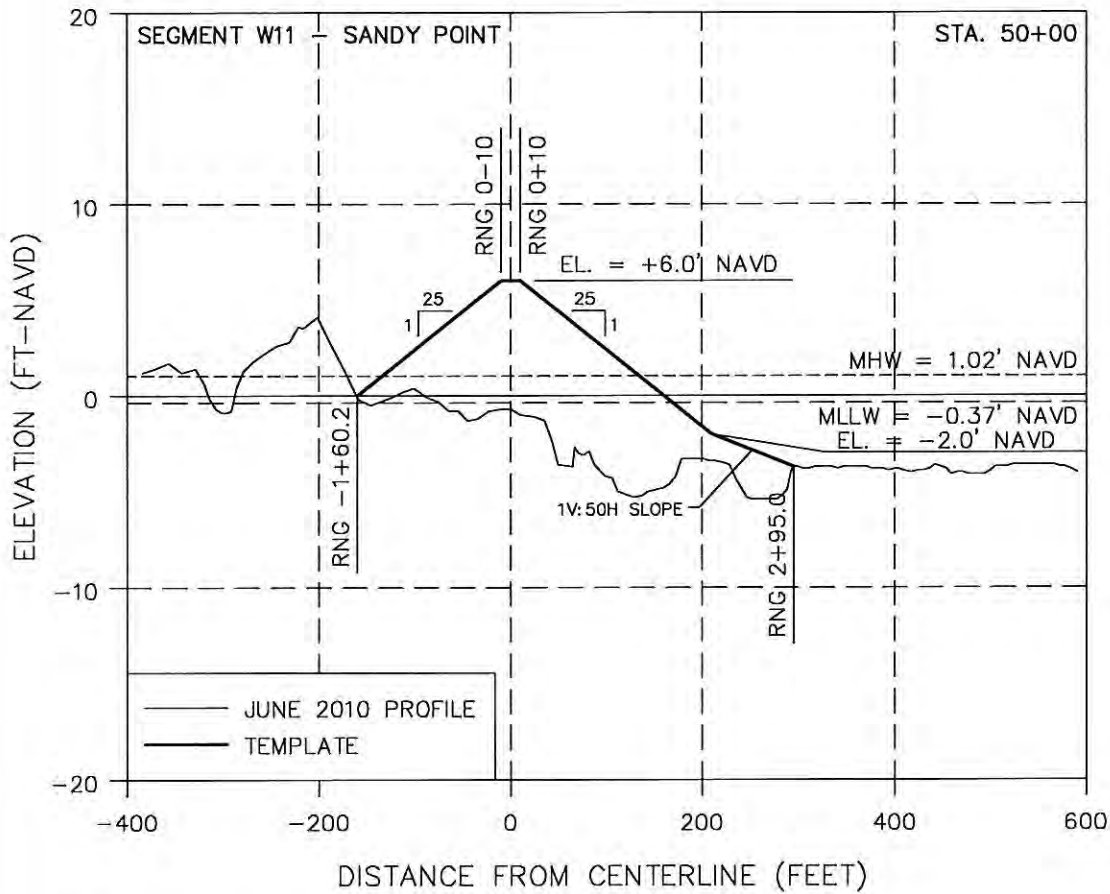
FEDERAL PROJECT NUMBER:

SHEET 9 OF 27

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

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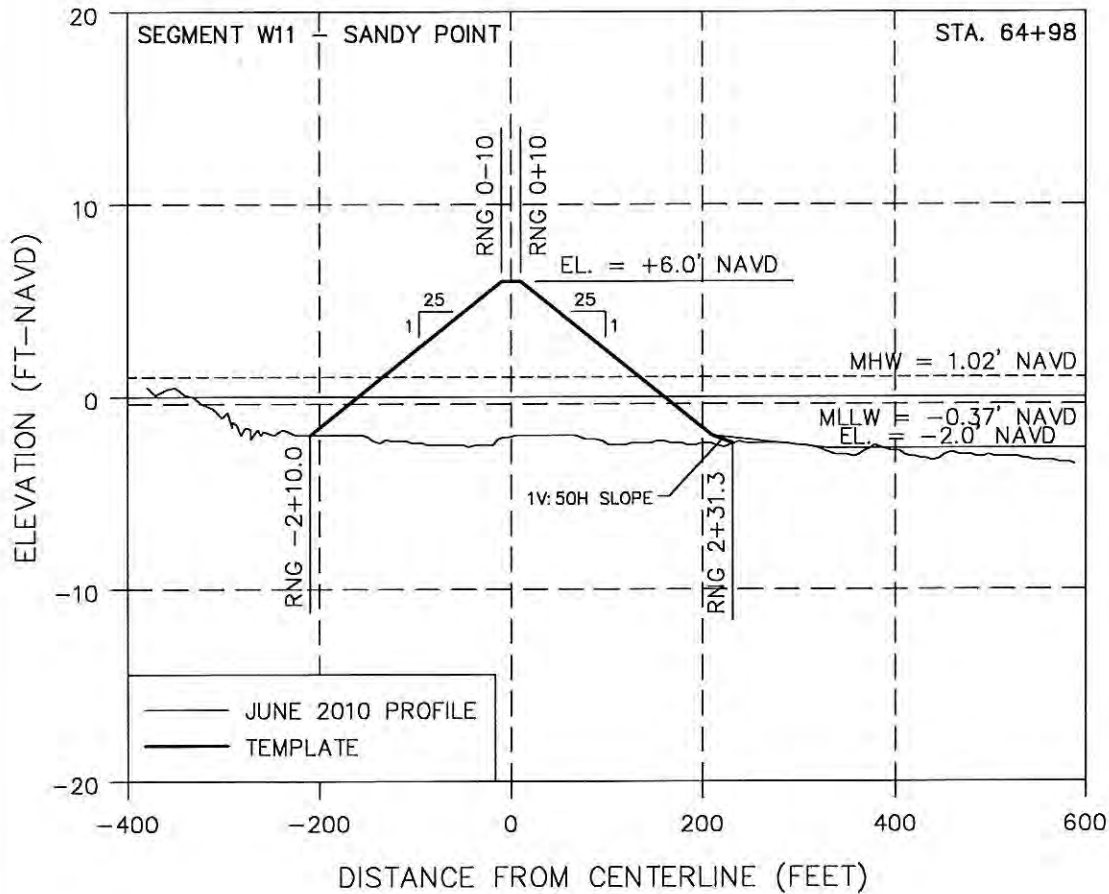
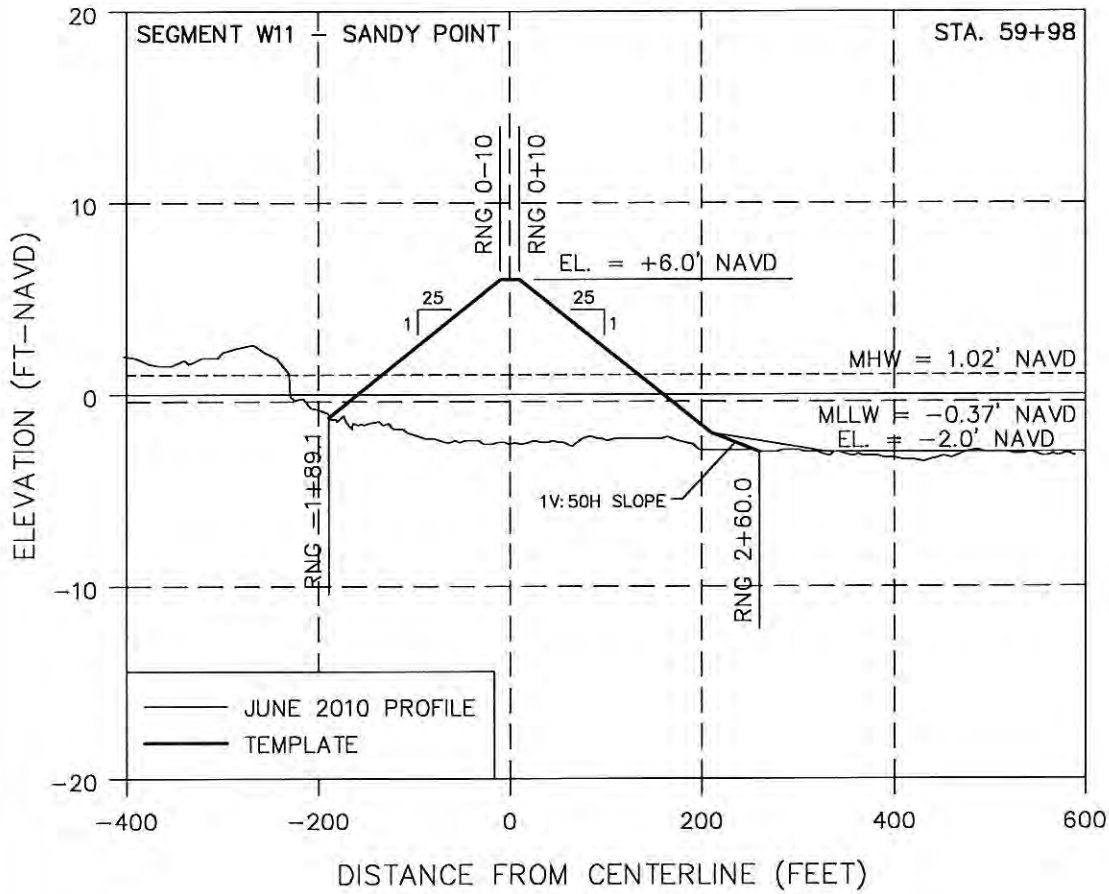
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FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

STATE PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:

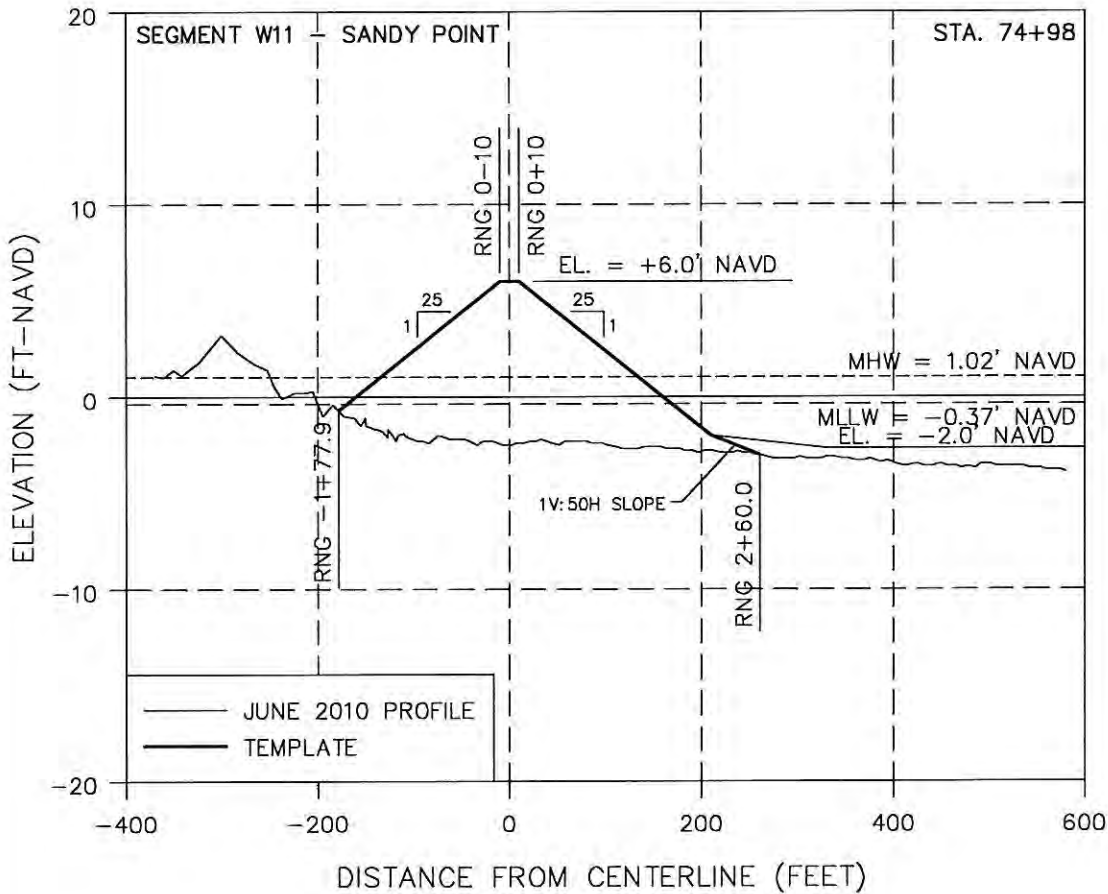
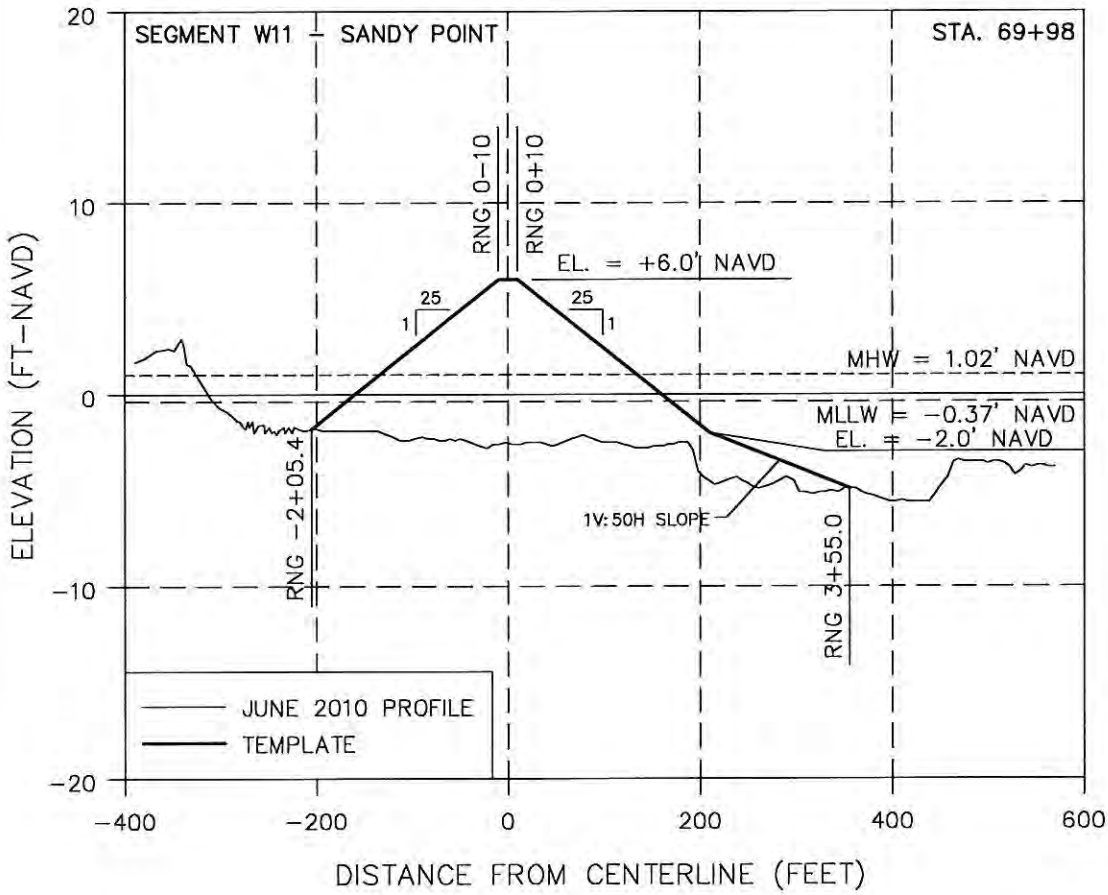
SHEET 11 OF 27

FEDERAL PROJECT NUMBER:

APPROVED BY:

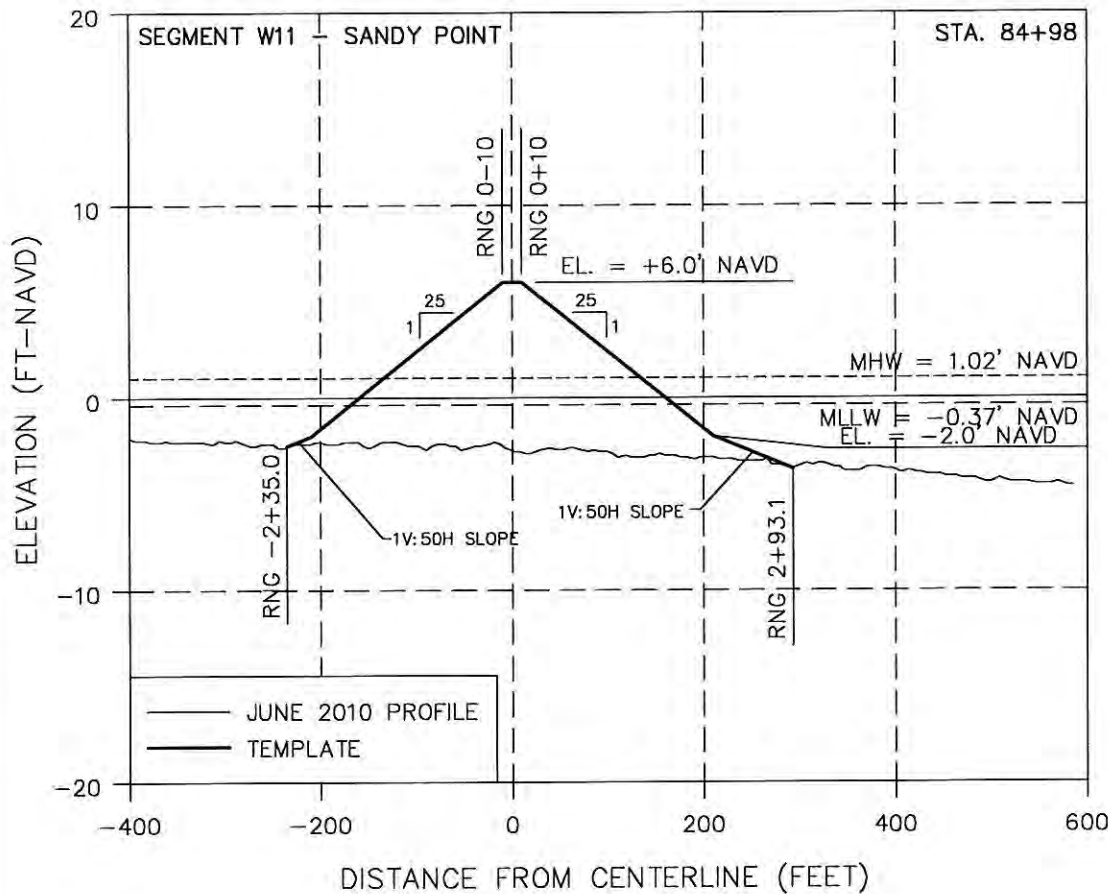
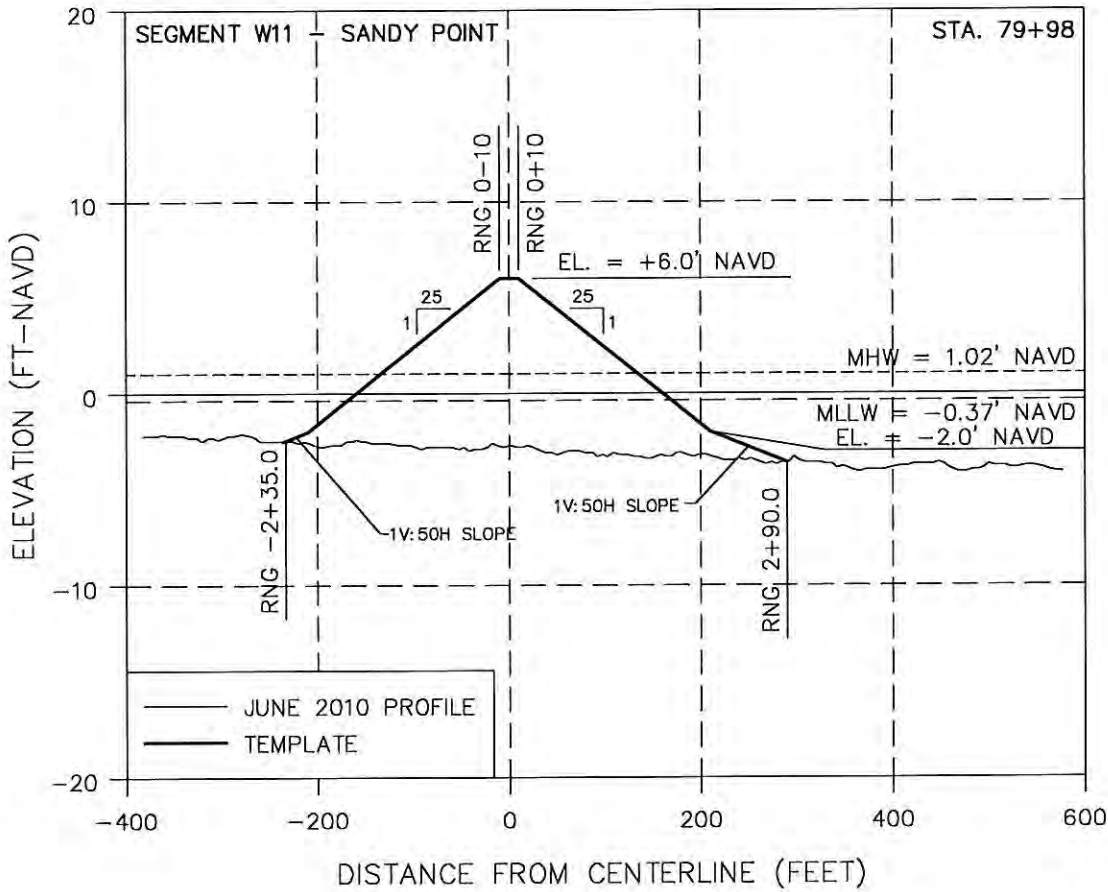
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DRAWN BY:



SEGMENT W11 PROFILES	DATE: 09/17/10 SHEET 12 OF 27
BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:
APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY:  DRAWN BY:





SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

SHEET 13 OF 27

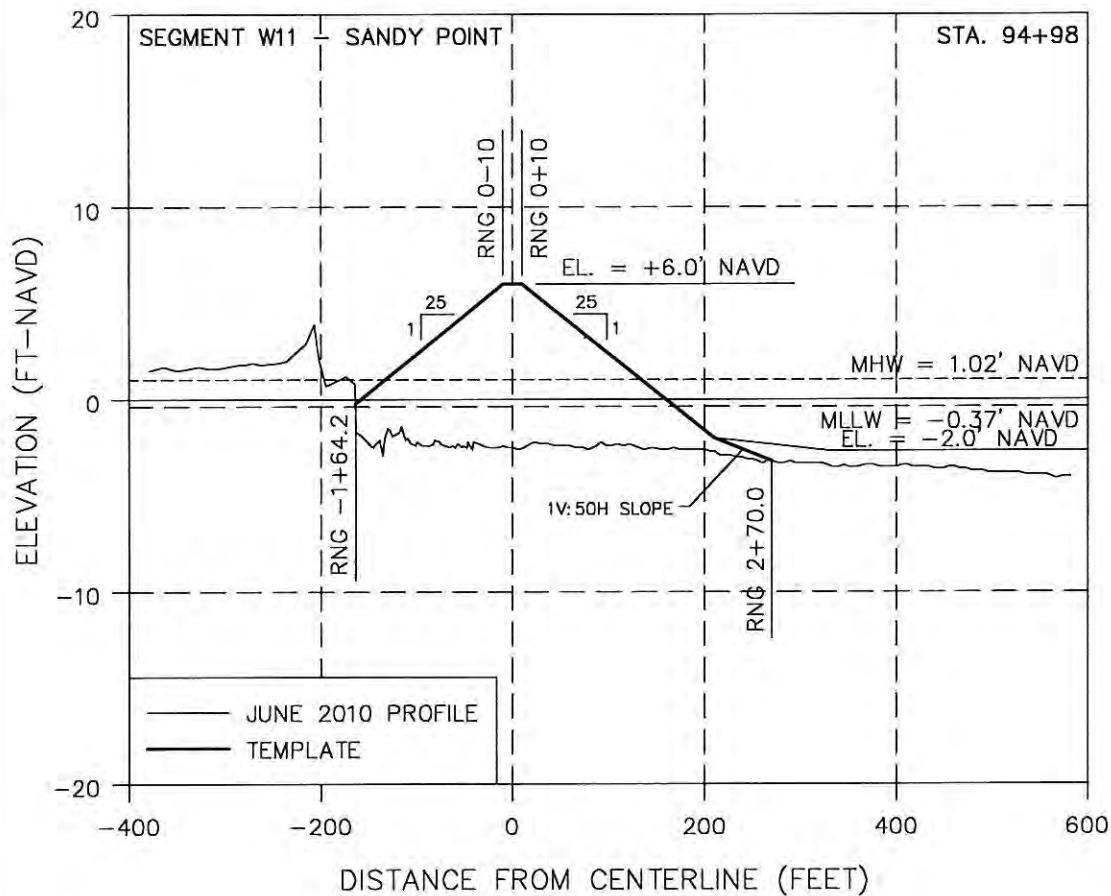
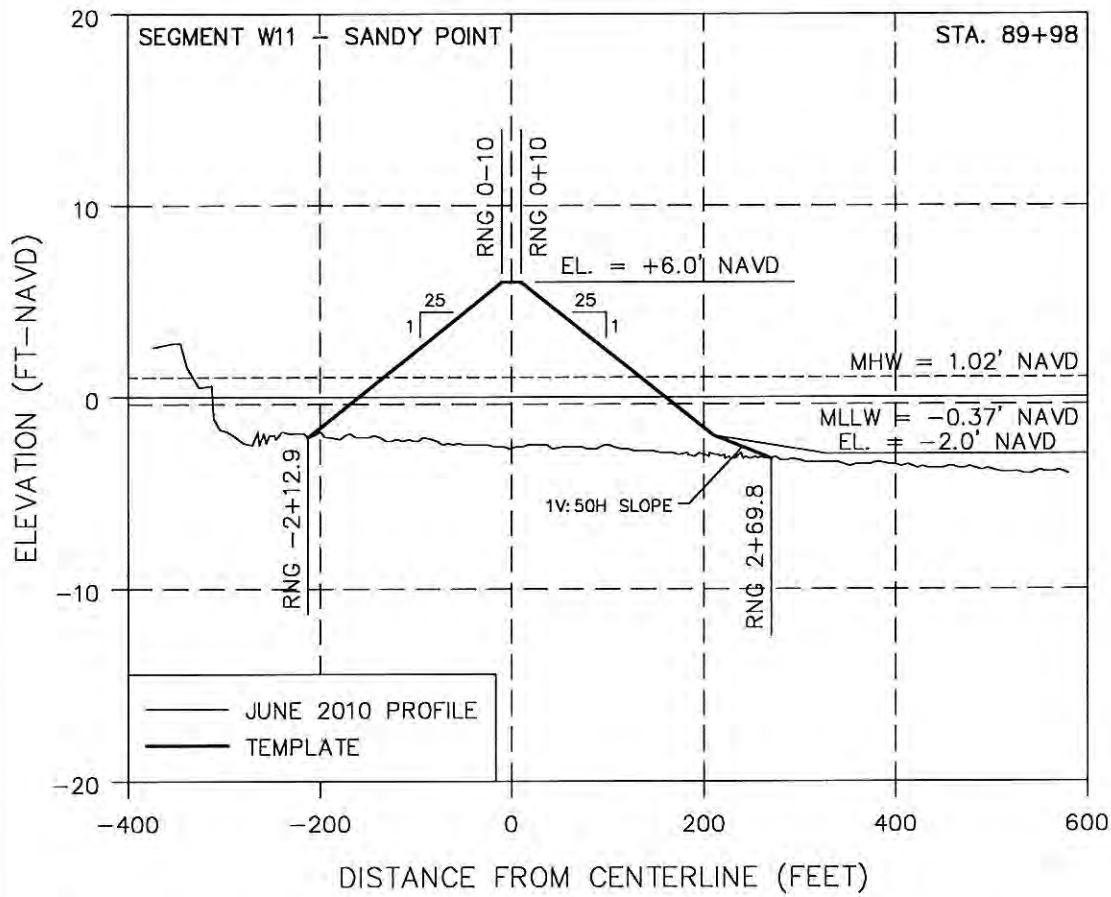
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FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

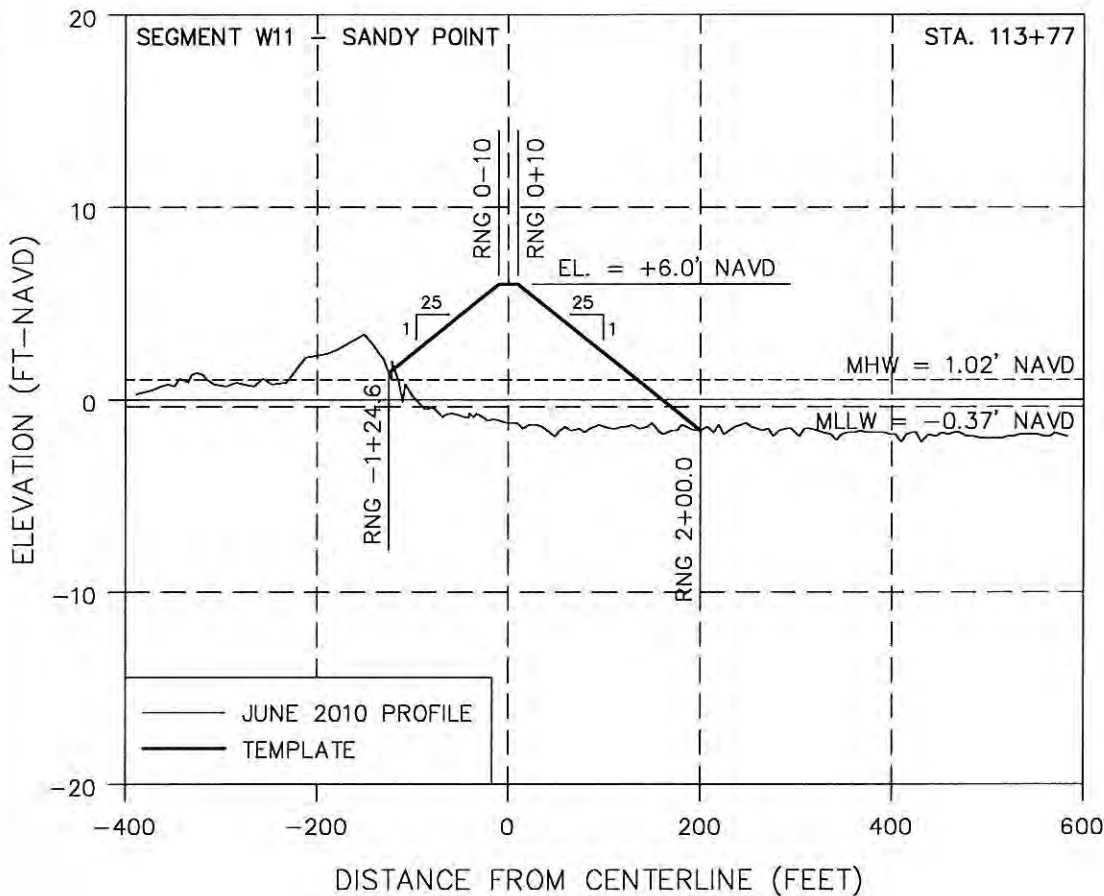
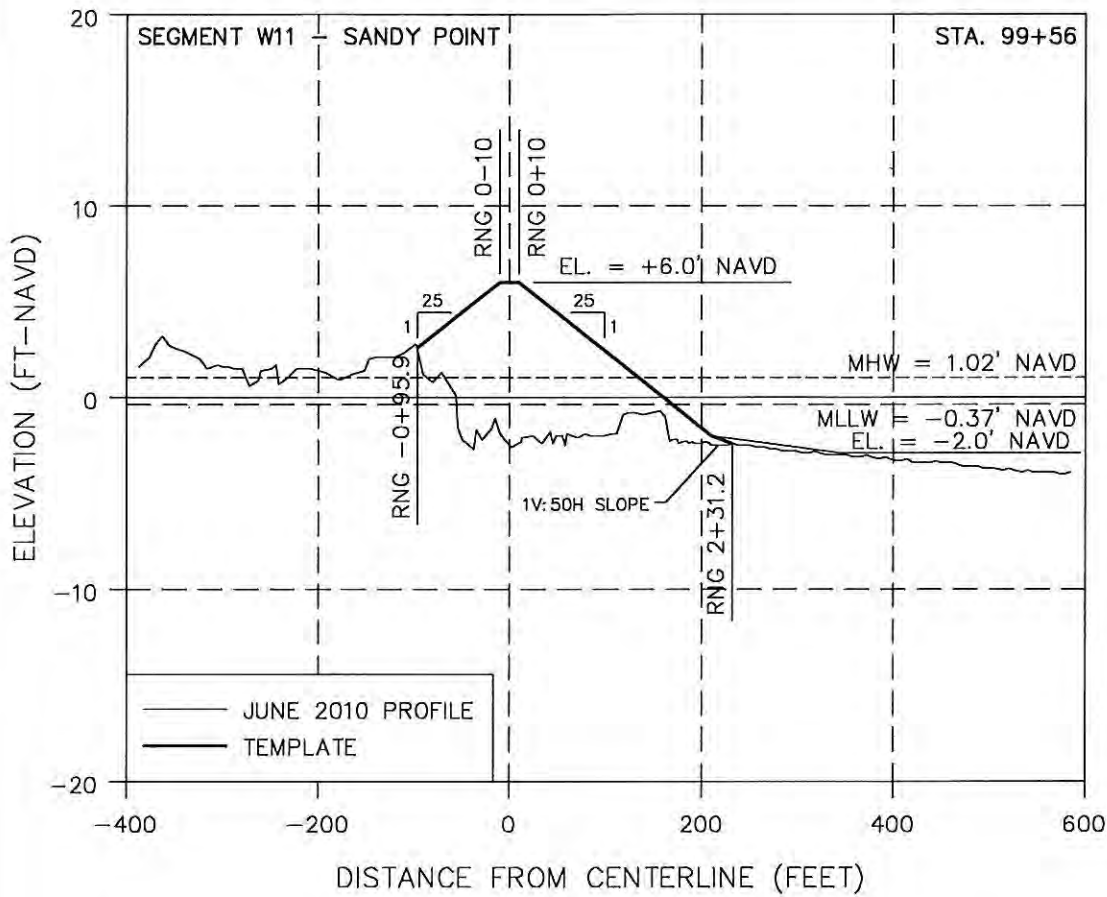
STATE PROJECT NUMBER:  
FEDERAL PROJECT NUMBER:

SHEET 14 OF 27

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

SHEET 15 OF 27

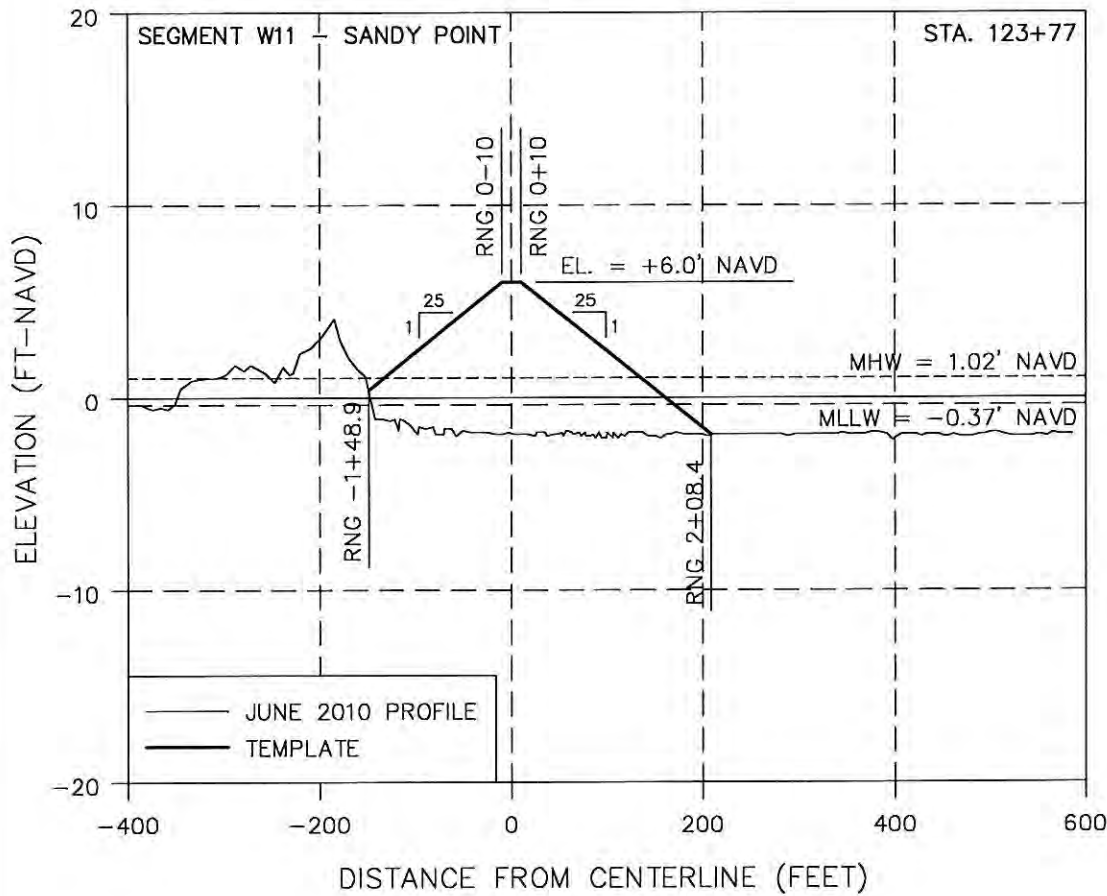
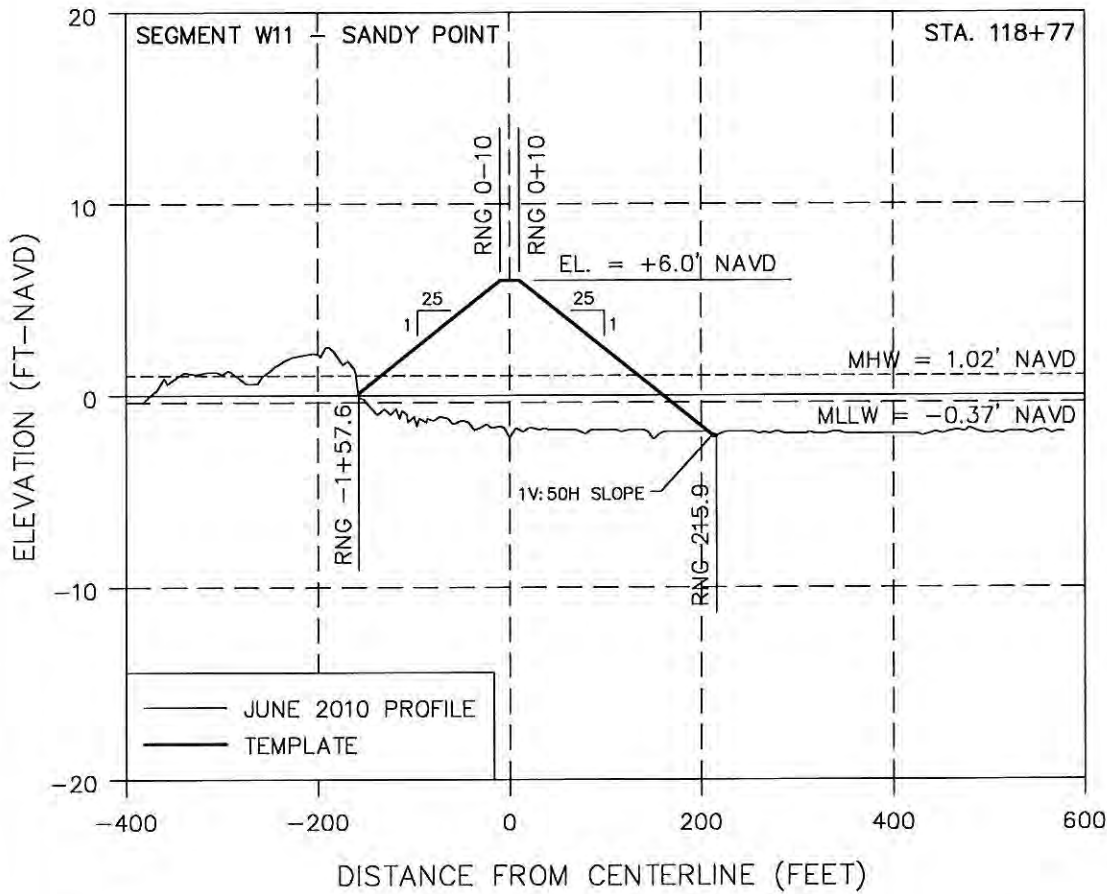
STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 09/17/10

STATE PROJECT NUMBER:

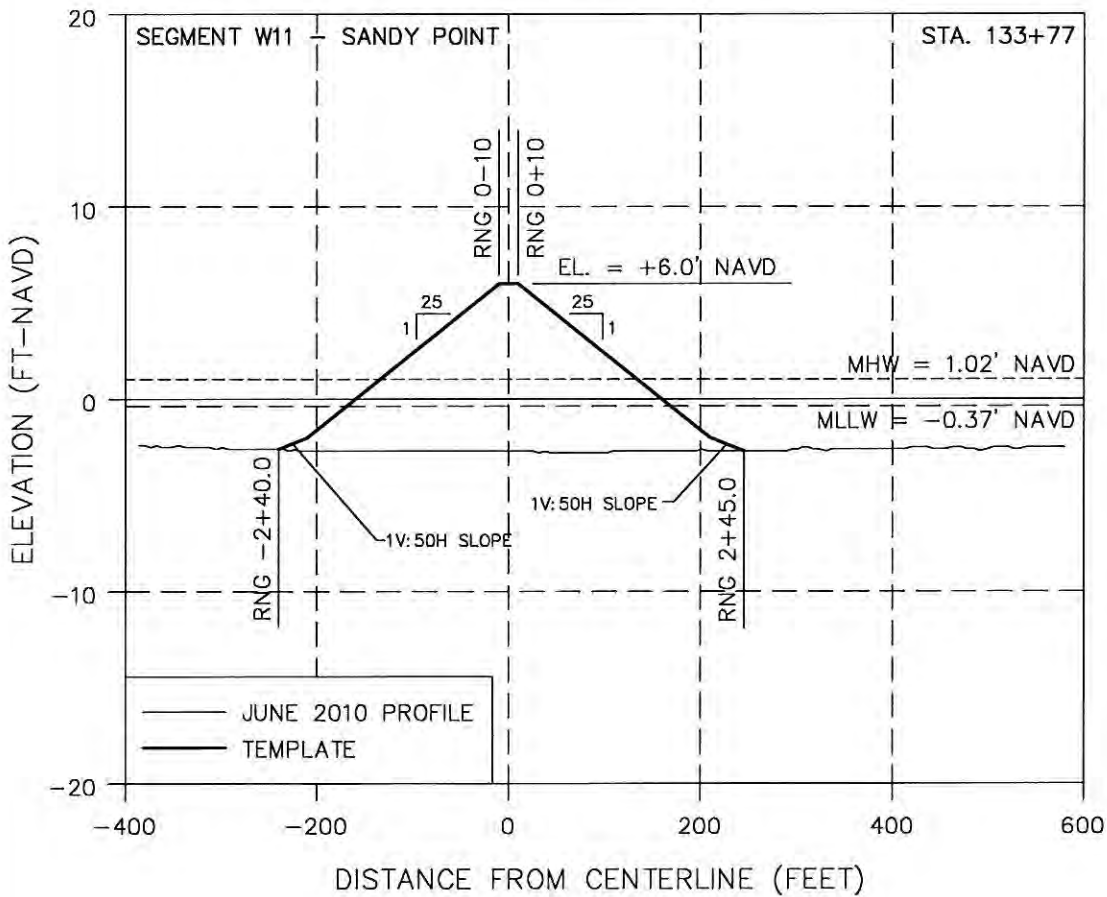
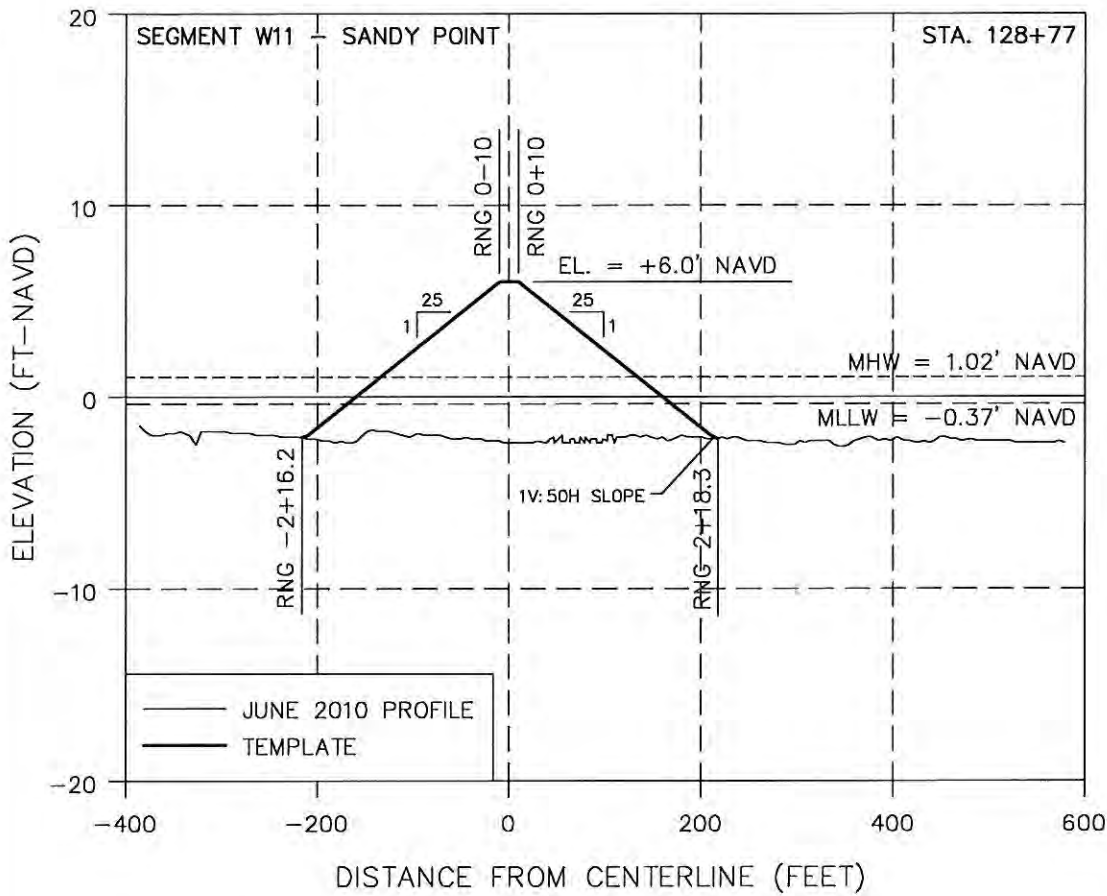
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DESIGNED BY:

DRAWN BY:

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SEGMENT W11  
PROFILES

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BARRIER ISLAND  
DEFENSE

STATE PROJECT NUMBER:

FEDERAL PROJECT NUMBER:

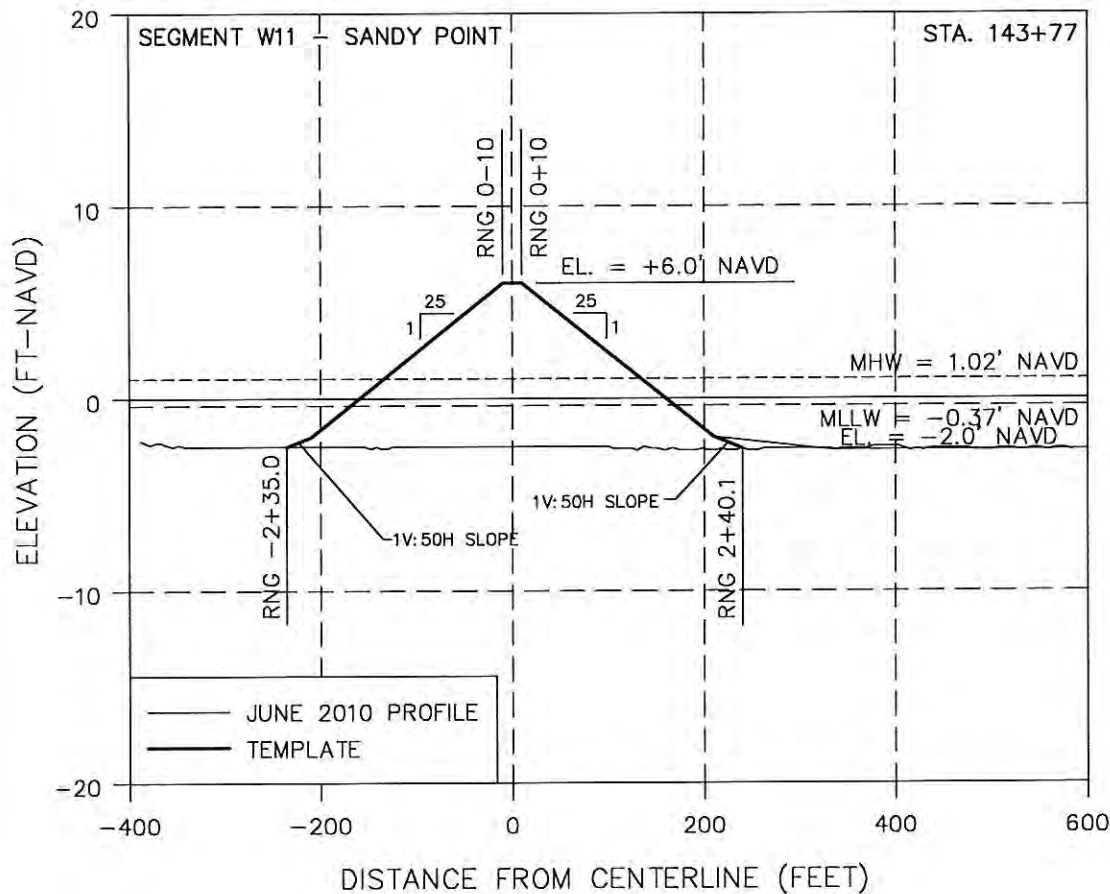
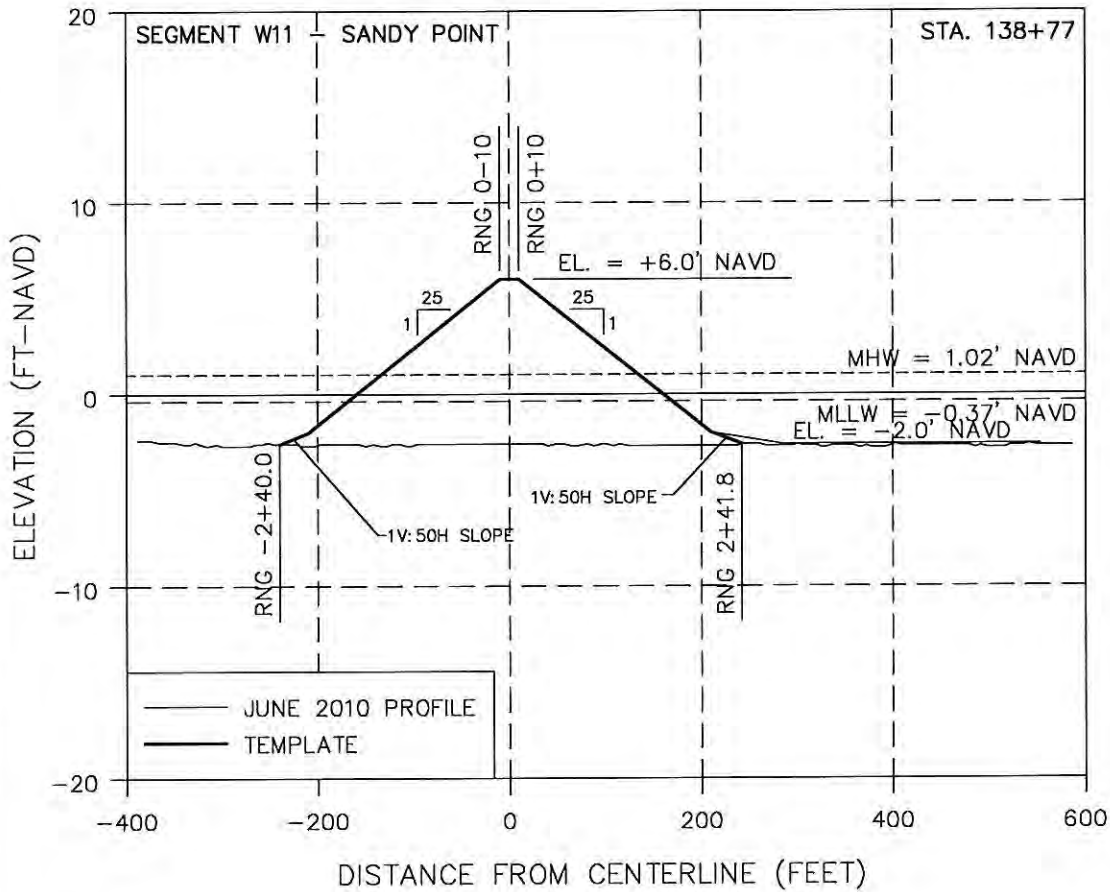
OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPROVED BY:

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DESIGNED BY:

DRAWN BY:



SEGMENT W11  
PROFILES

BARRIER ISLAND  
DEFENSE

OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DATE: 08/17/10

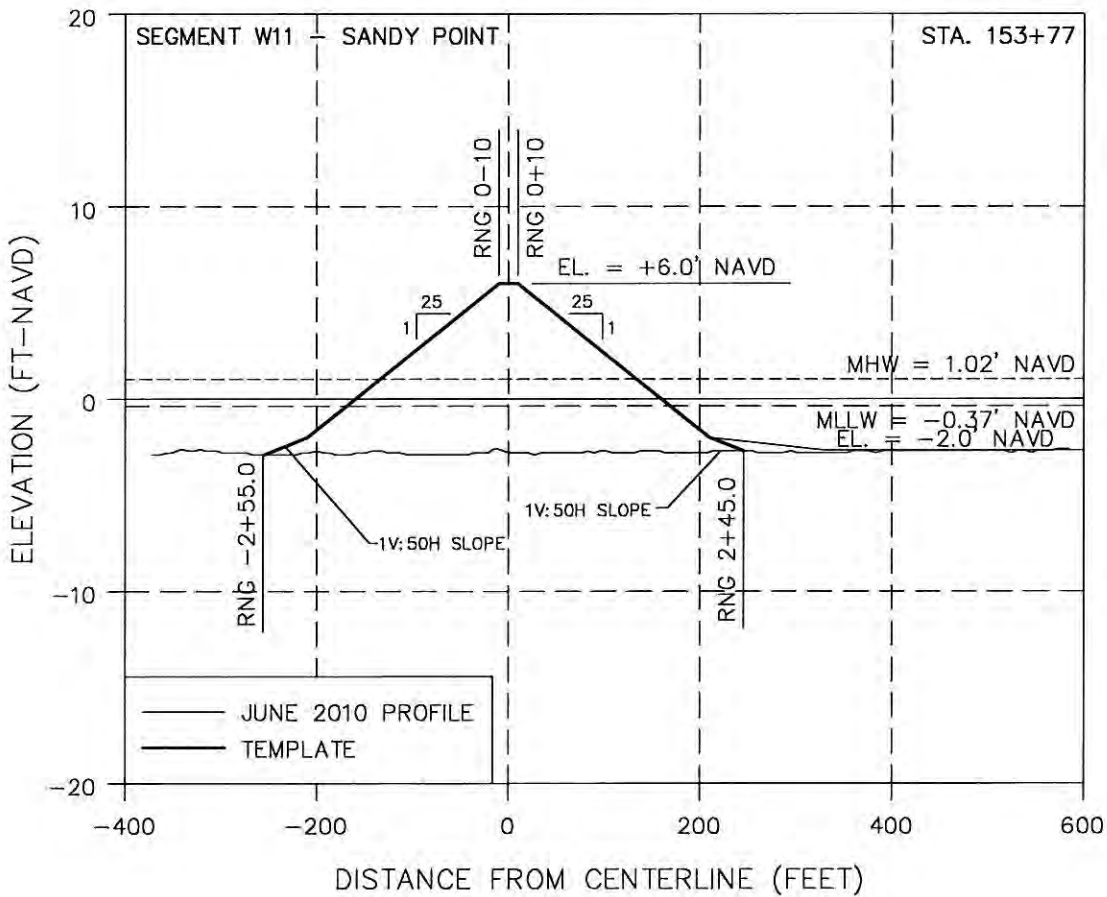
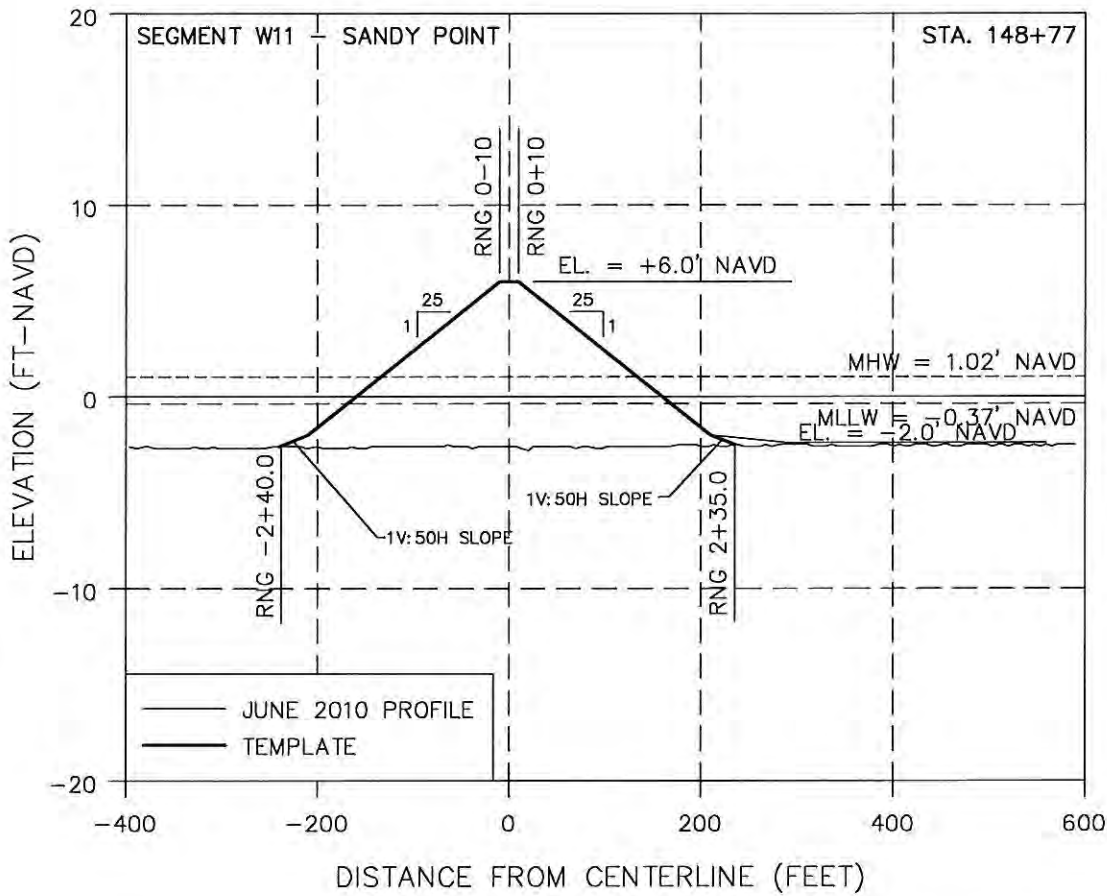
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FEDERAL PROJECT NUMBER:

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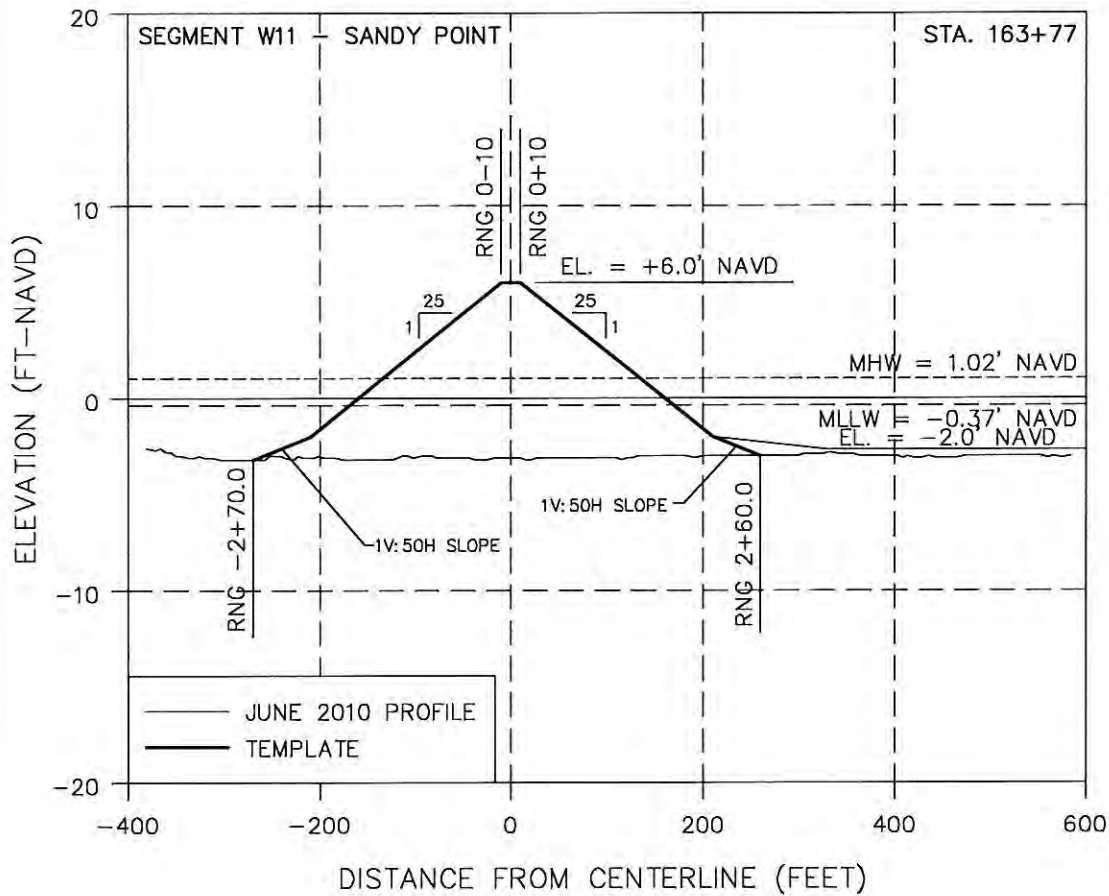
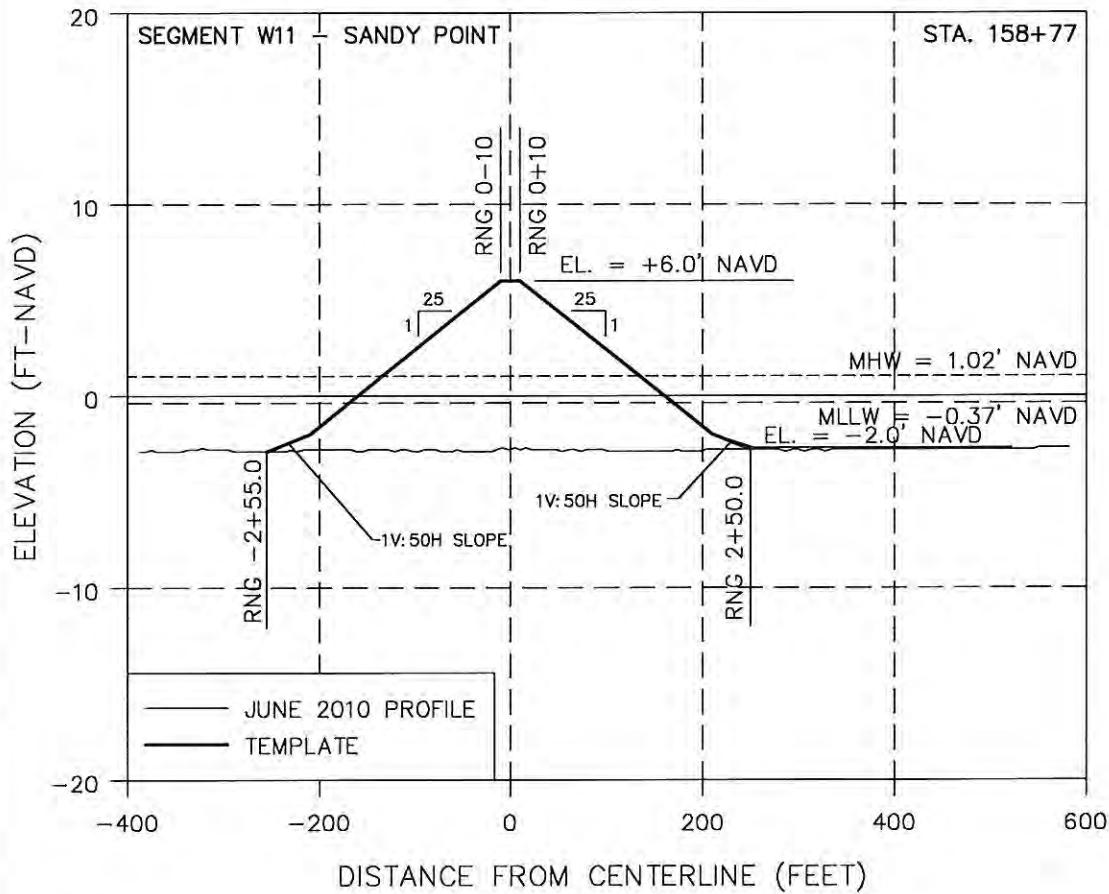
APPROVED BY:

DESIGNED BY:

DRAWN BY:



SEGMENT W11 PROFILES	DATE: 09/17/10 SHEET 19 OF 27
BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
OFFICE OF COASTAL PROTECTION & RESTORATION ENGINEERING BRANCH 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY:
	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801



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OFFICE OF COASTAL PROTECTION & RESTORATION  
ENGINEERING BRANCH  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:  
OFFICE OF COASTAL PROTECTION & RESTORATION  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

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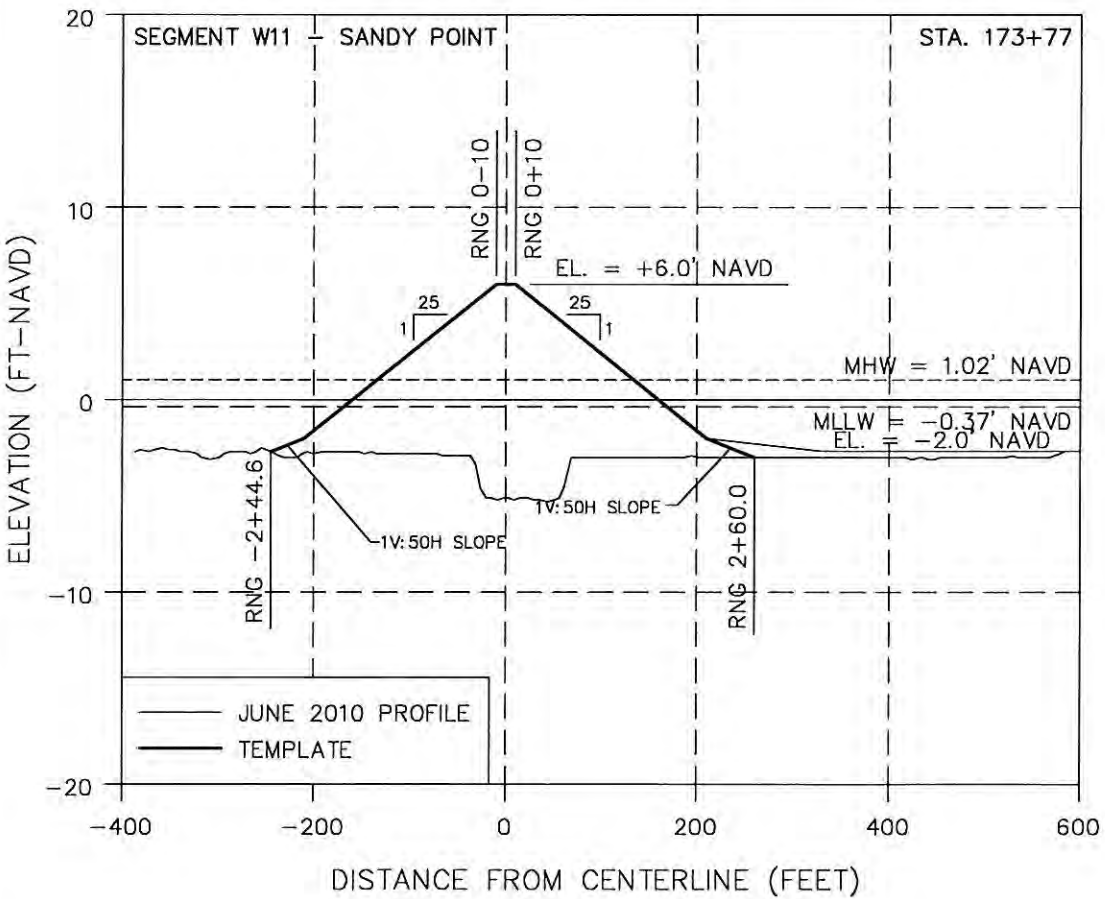
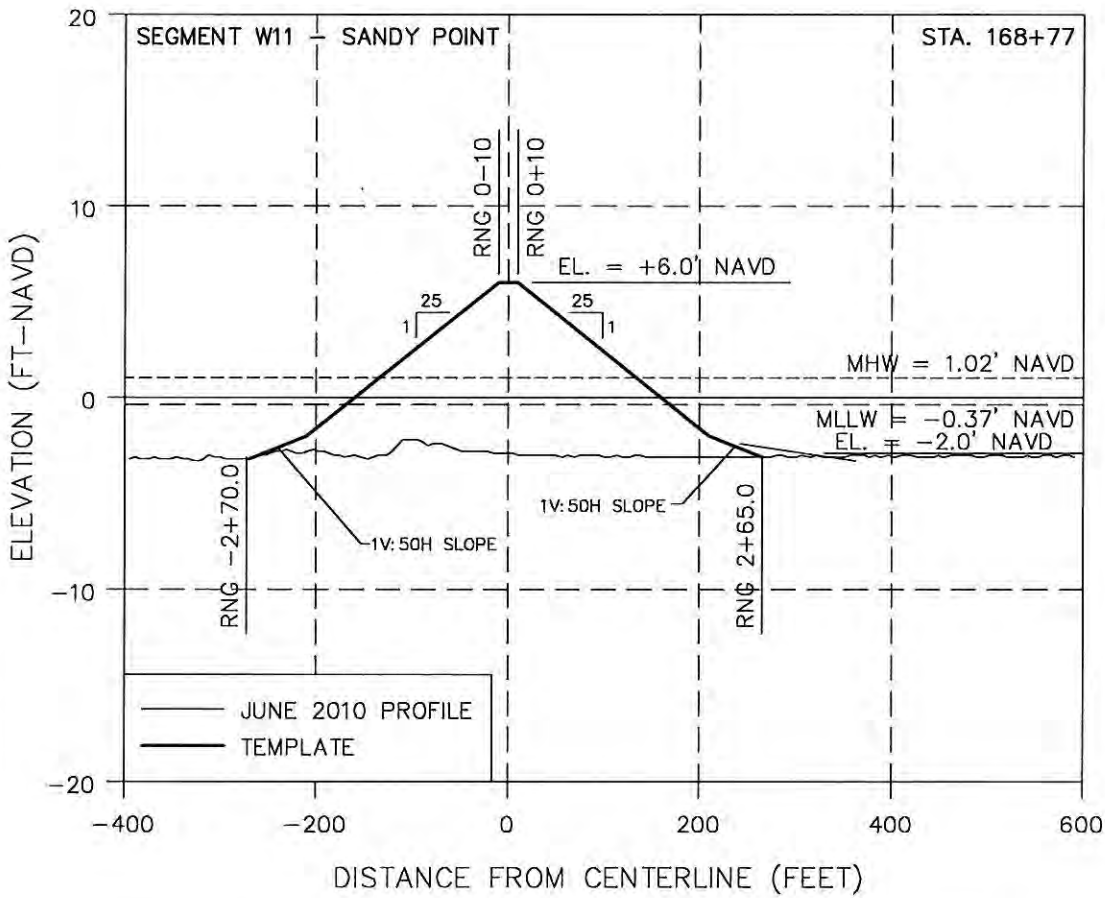
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DEFENSE

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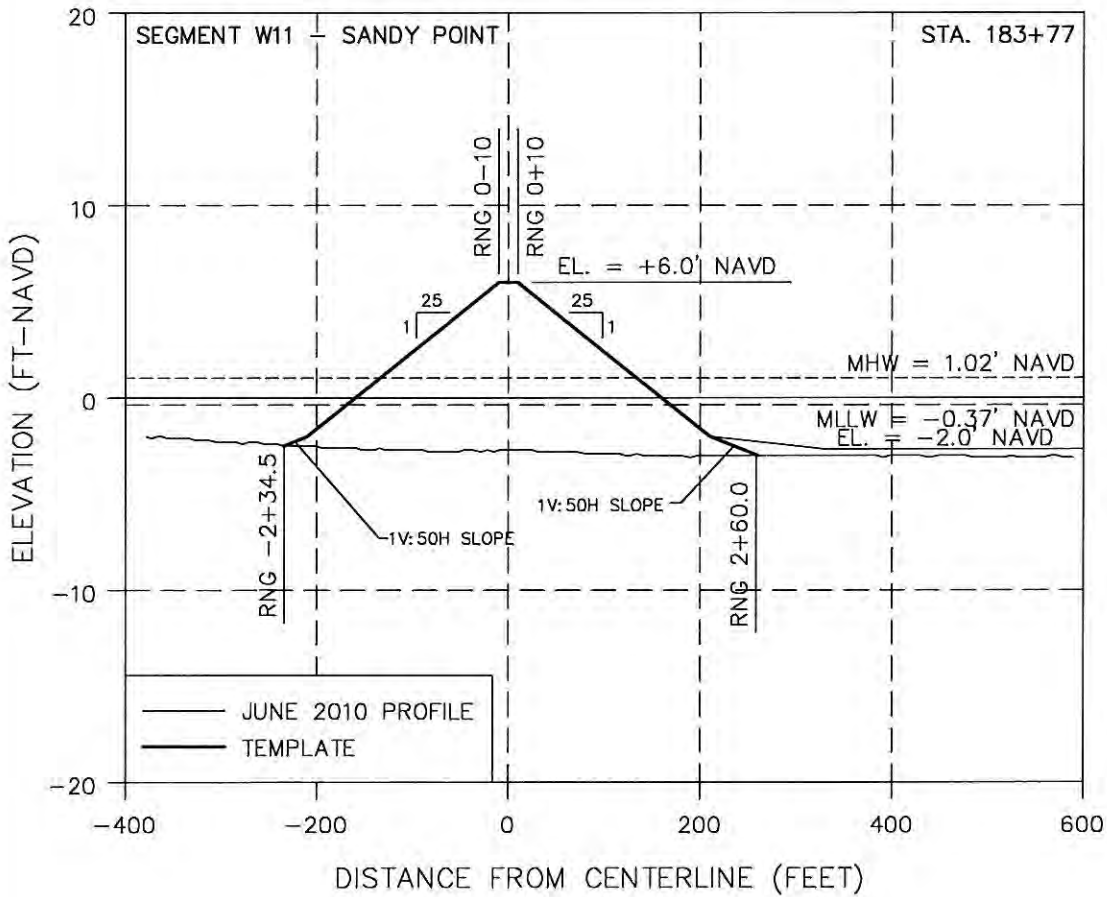
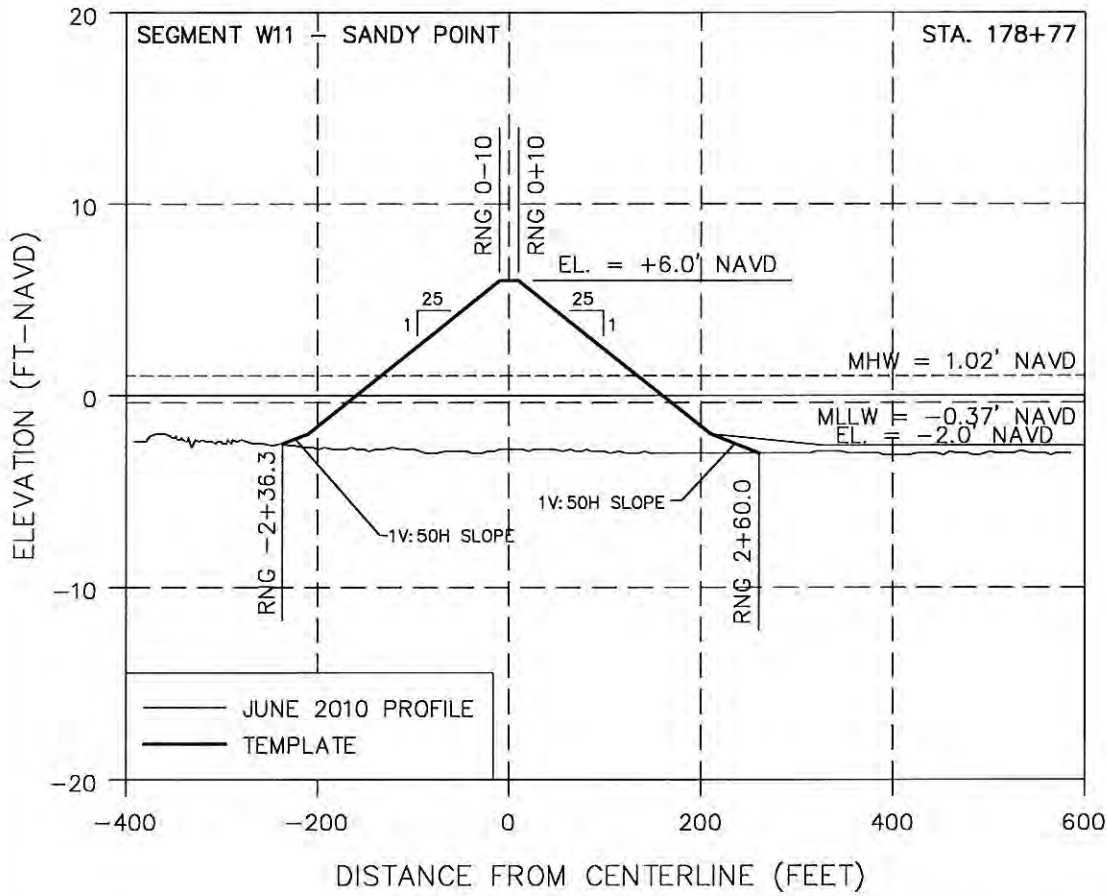
OFFICE OF COASTAL PROTECTION & RESTORATION  
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DEFENSE

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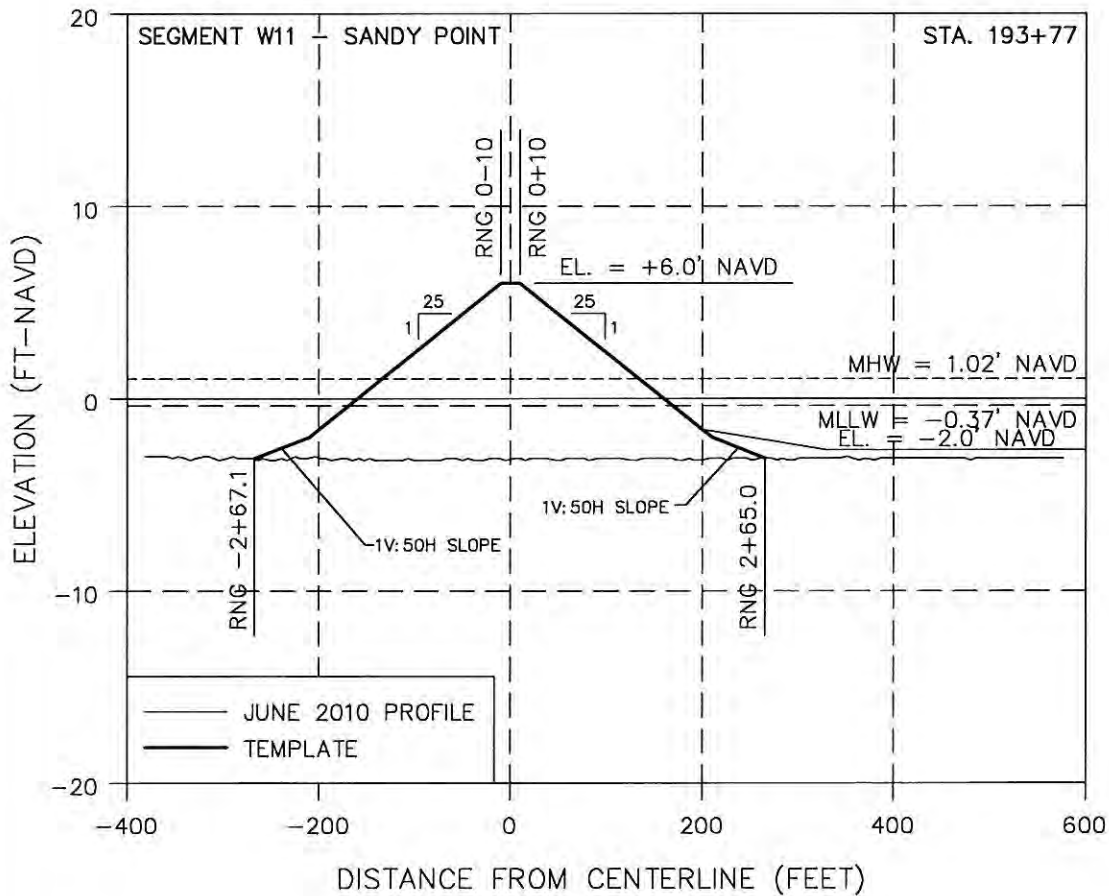
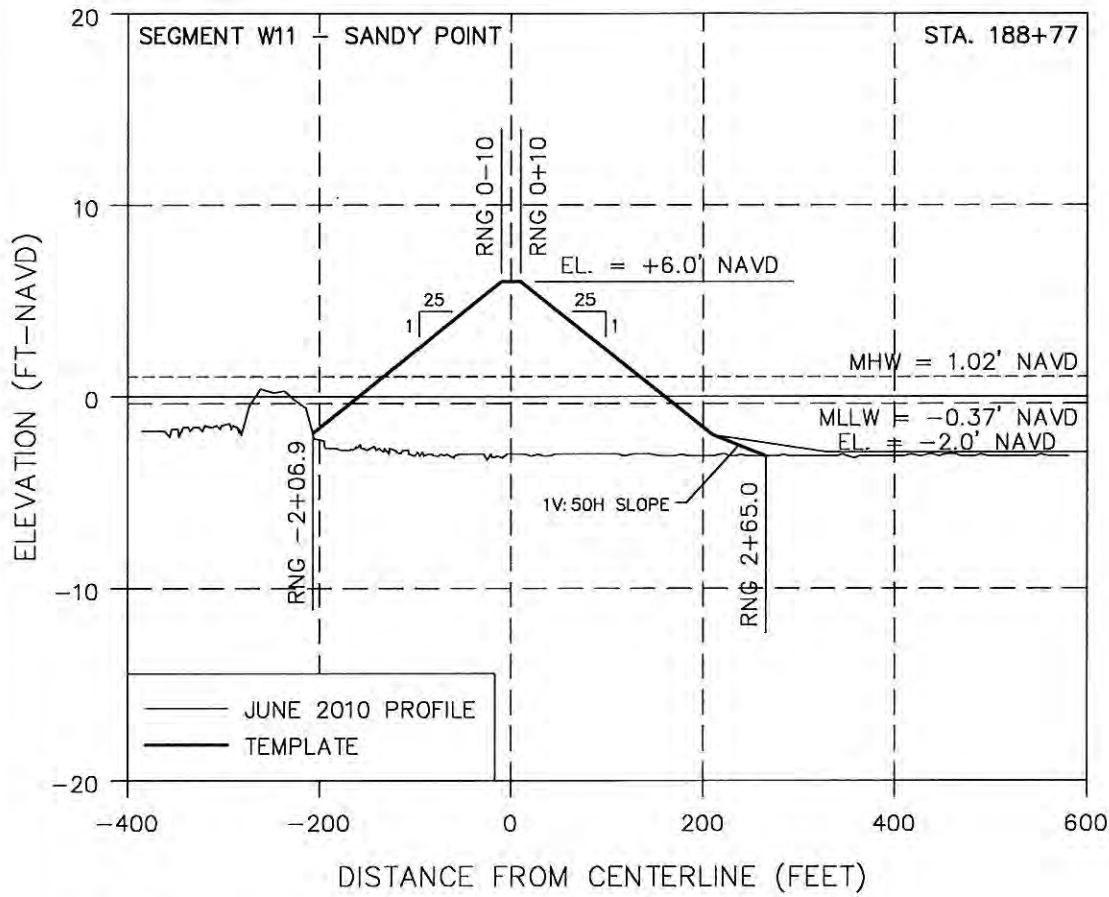
OFFICE OF COASTAL PROTECTION & RESTORATION  
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OFFICE OF COASTAL PROTECTION & RESTORATION  
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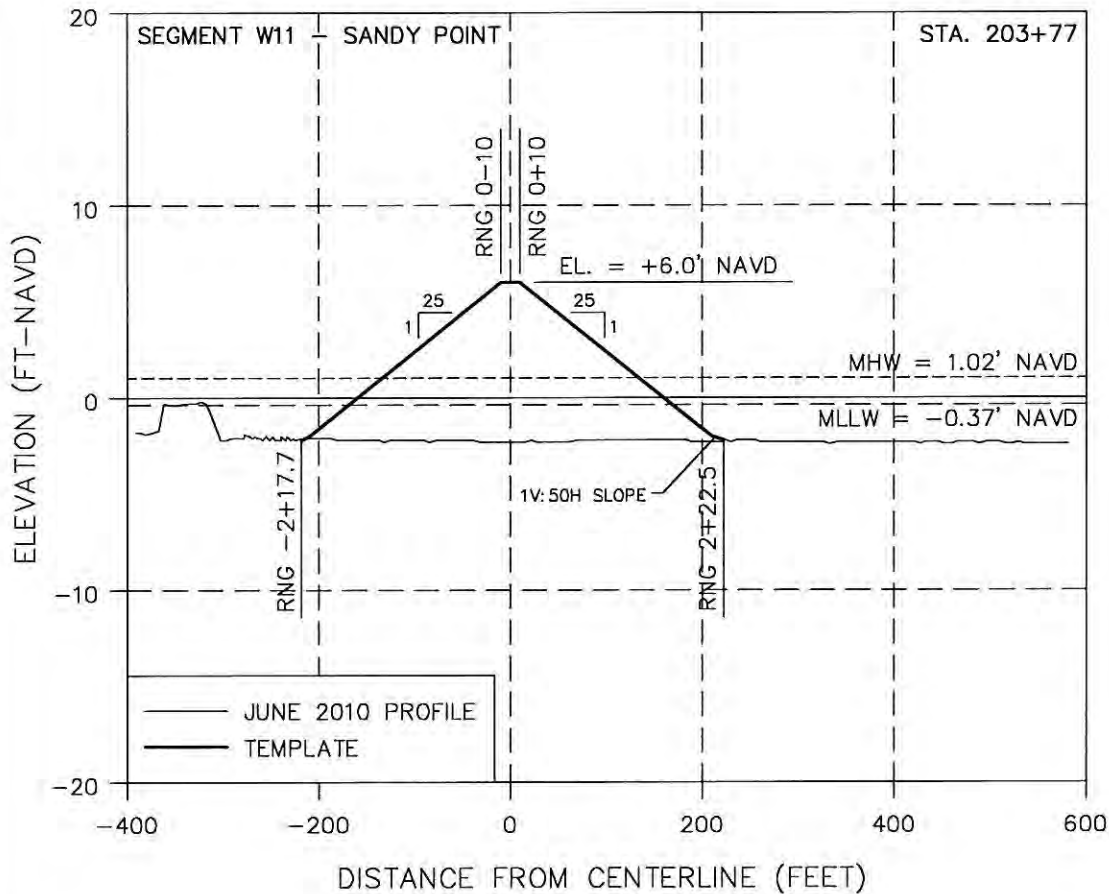
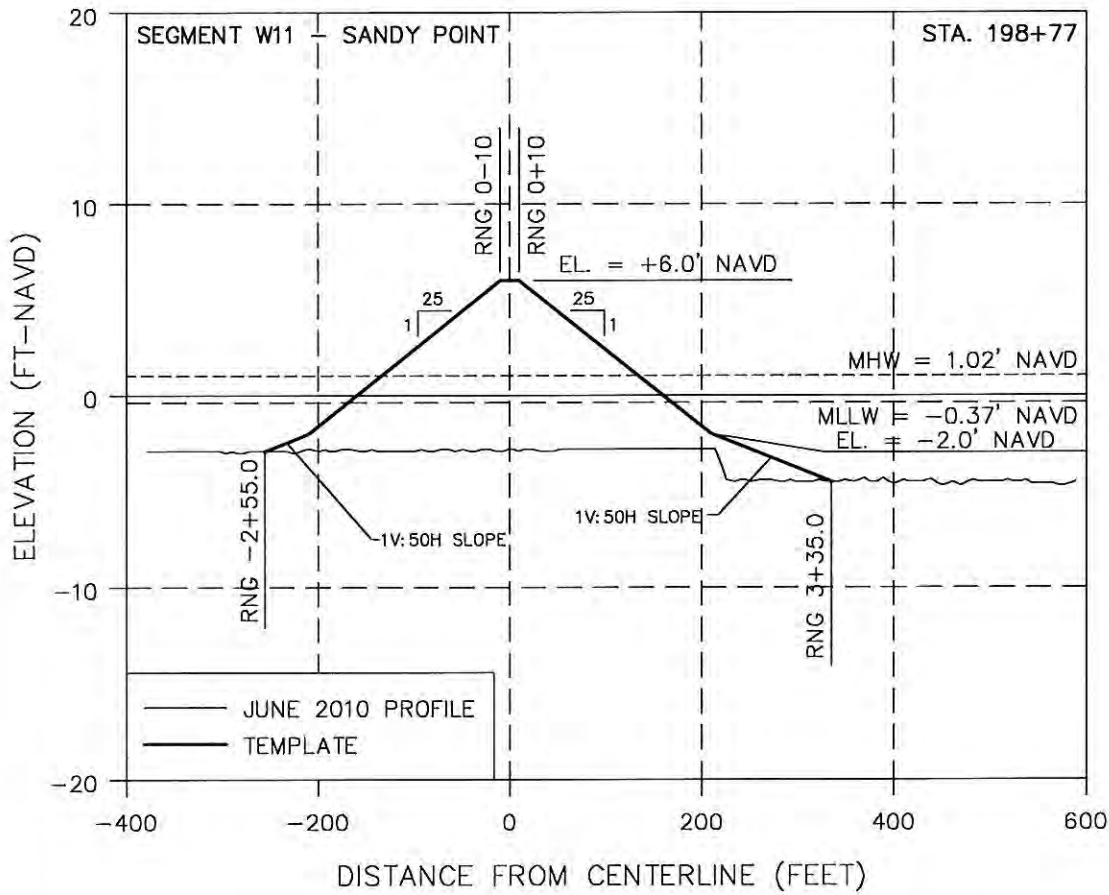
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SEGMENT W11 PROFILES	BARRIER ISLAND DEFENSE	OFFICE OF COASTAL PROTECTION & RESTORATION <b>ENGINEERING BRANCH</b> 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801
DATE: 09/17/10 SHEET 23 OF 27	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:	DESIGNED BY: APPROVED BY:	DRAWN BY:



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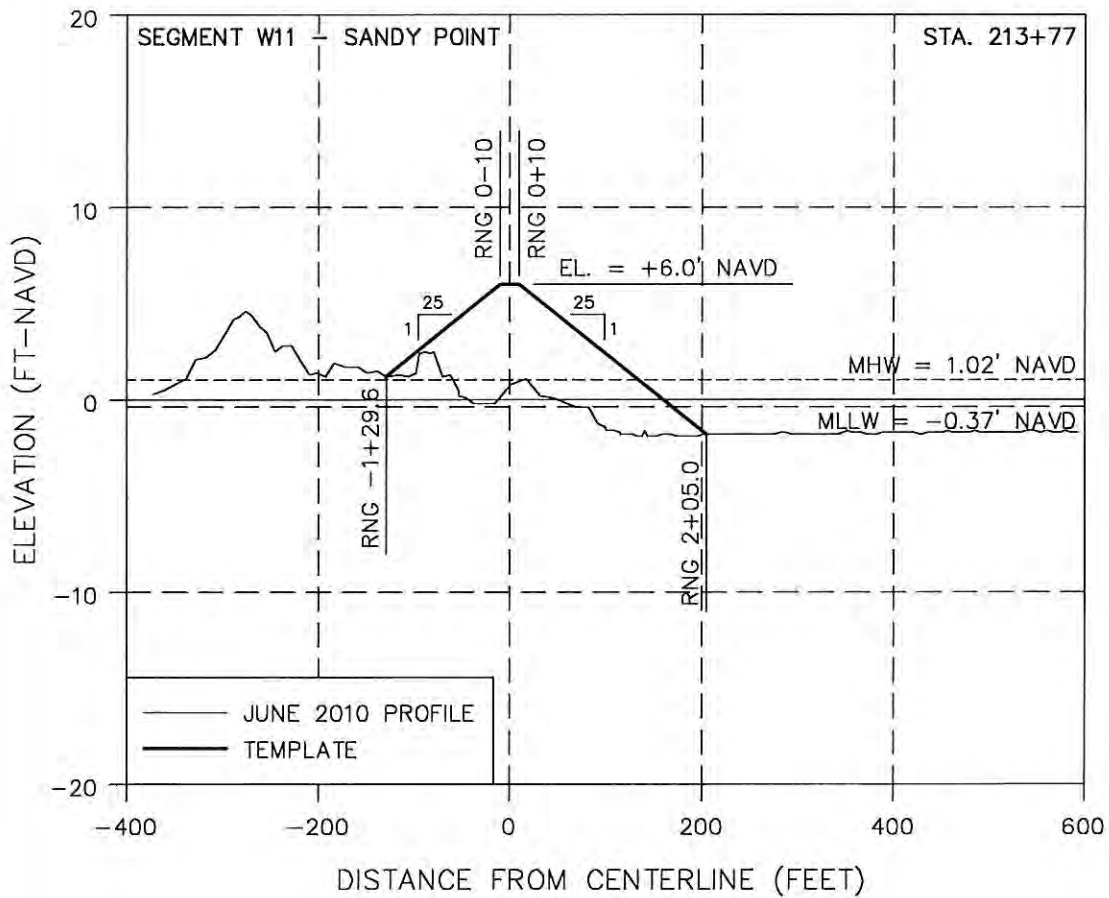
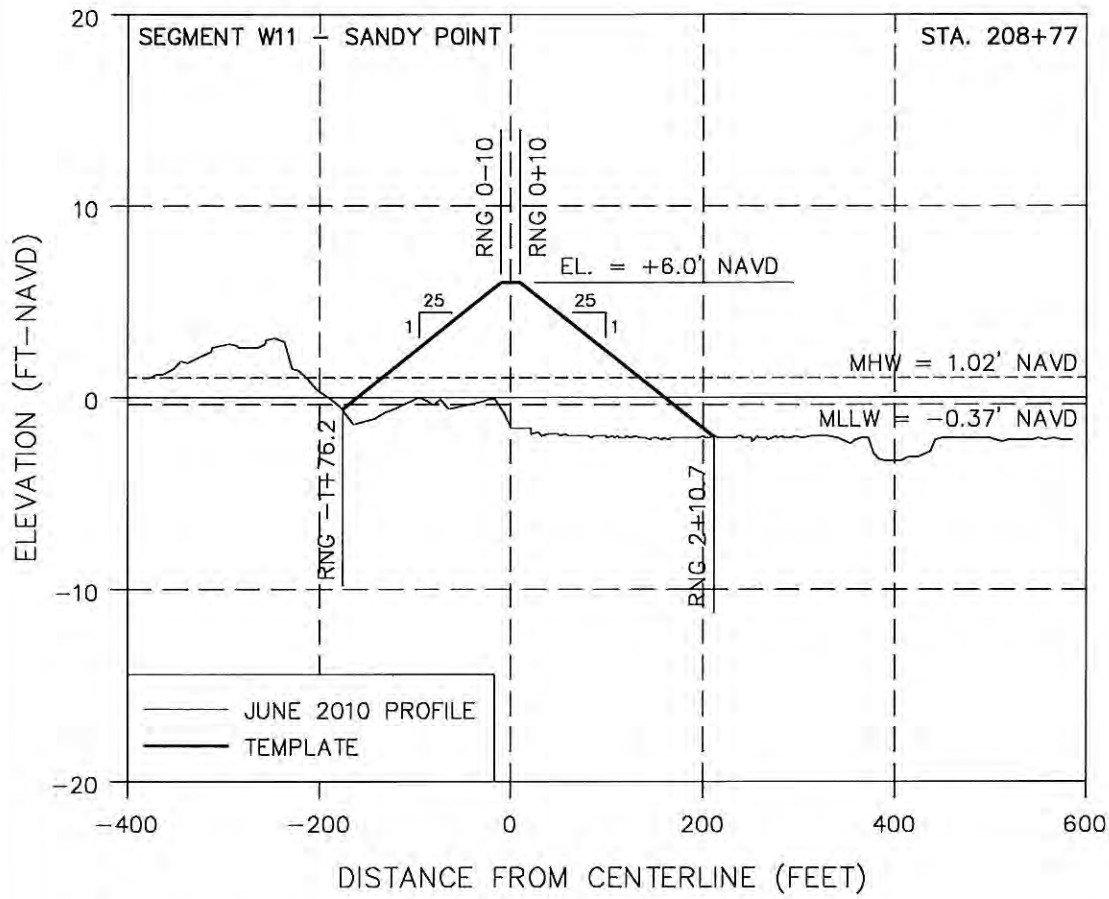
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OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
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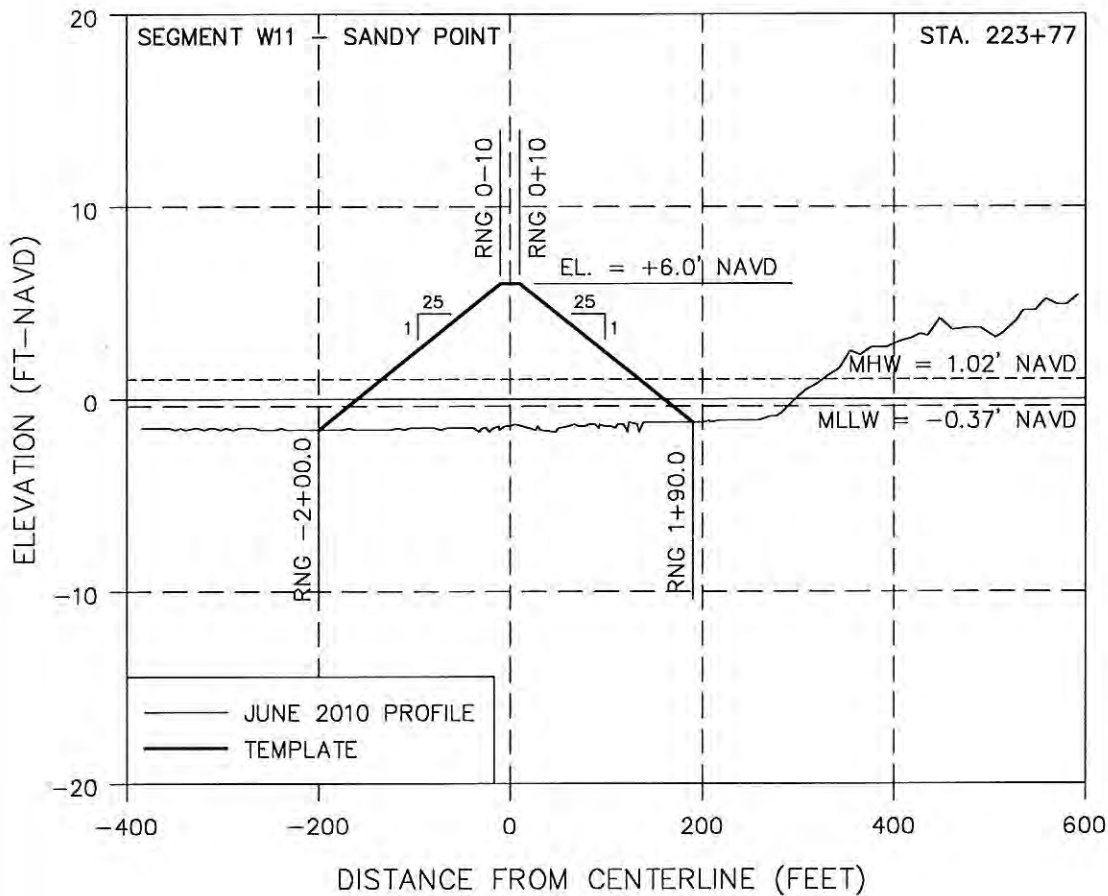
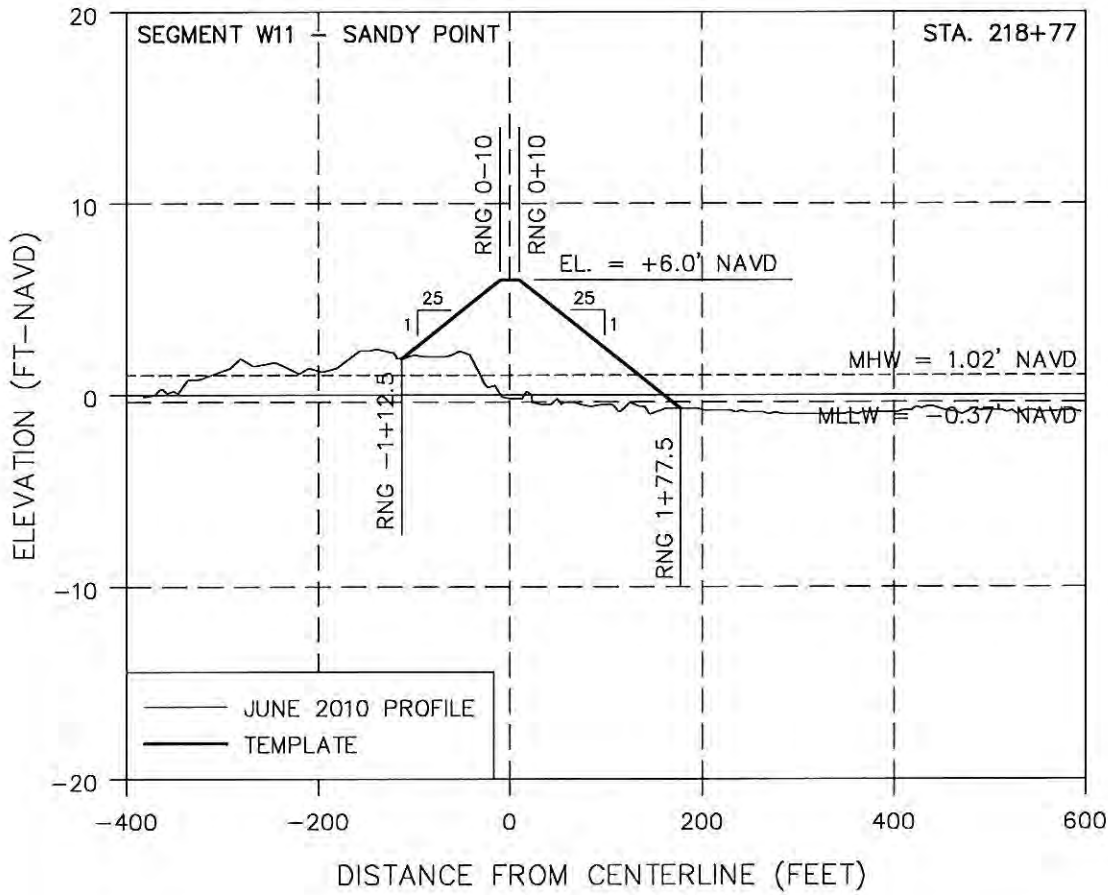
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OFFICE OF COASTAL PROTECTION & RESTORATION  
**ENGINEERING BRANCH**  
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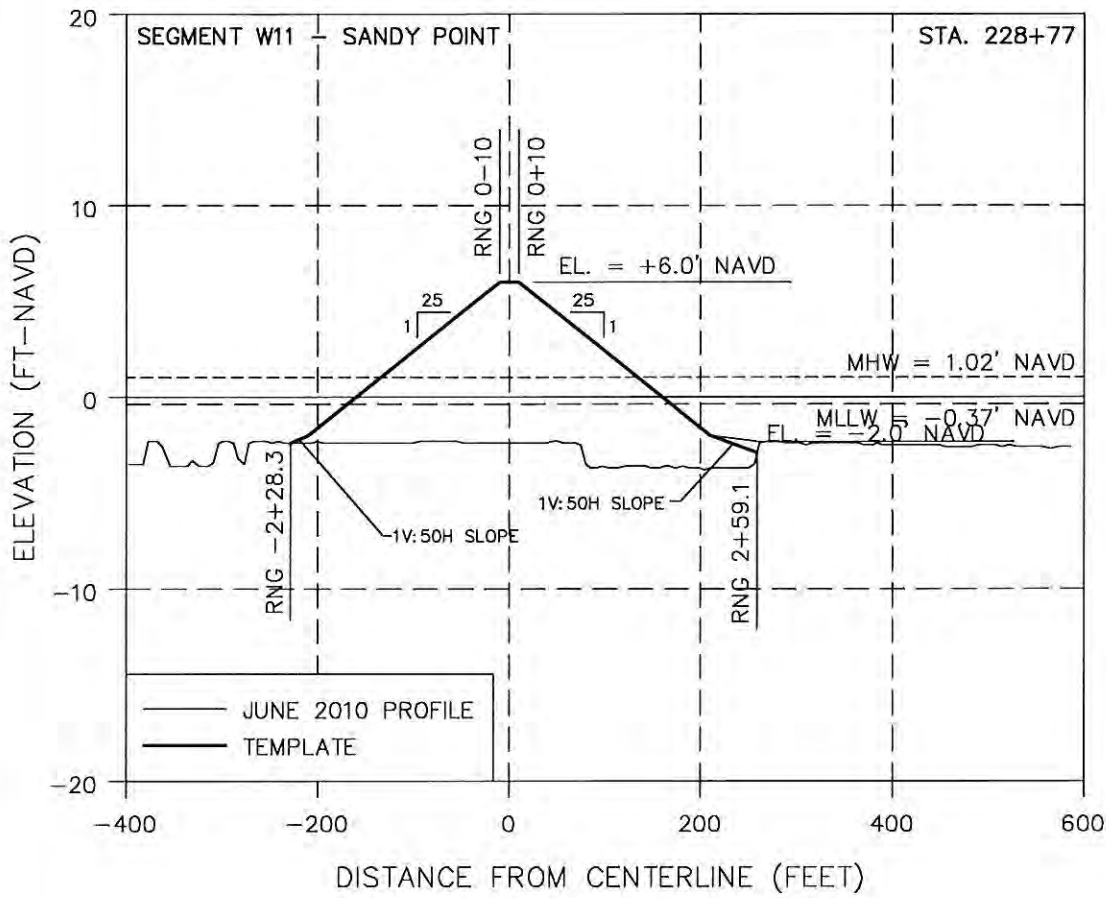
STATE PROJECT NUMBER:

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BARRIER ISLAND DEFENSE	STATE PROJECT NUMBER: FEDERAL PROJECT NUMBER:
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APPLICATION BY: OFFICE OF COASTAL PROTECTION & RESTORATION 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: DRAWN BY: