

APPENDIX J: OWNER OBTAINED PERMITS



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

FEB 20 2013

RECEIVED
2-29-13

Operations Division
Eastern Evaluation Section

SUBJECT: MVN 2009-1353-EFF

Louisiana Coastal Protection and Restoration Authority
Attn: Garrett Graves
Post Office Box 44027
Baton Rouge, Louisiana

Dear Mr. Graves:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

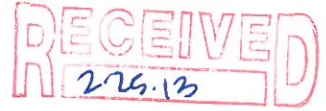


DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Operations Division
Eastern Evaluation Section

FEB 20 2013



SUBJECT: MVN 2009-1353-EFF

Louisiana Department of Transportation
and Development
Attn: Ms. Sherrie Labas
Post Office Box 94245
Baton Rouge, Louisiana 70804-9245

Dear Ms. Labas:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

DEPARTMENT OF THE ARMY PERMIT

Permittee: Louisiana Coastal Protection and Restoration Authority & Louisiana Department of Transportation and Development

Permit No. 2009-1353-EFF

Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Dredge within an area of the Mississippi River in order to construct a sediment pipeline corridor and marsh restoration/nourishment area; all as part of the Mississippi River Long Distance Sediment Pipeline (LDSP) project, in accordance with the drawings attached in forty-one sheets dated December 12, 2012.

Project Location: In Plaquemines Parish and Jefferson Parish, within the Mississippi River at approximately miles 64 and 65, crossing and south of Highway 23, near Naomi, Louisiana.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **DEC 31, 2014**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: See Attached.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- Section 404 of the Clean Water Act (33 U.S.C. 1344).
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. **Reliance on Applicant's Data:** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

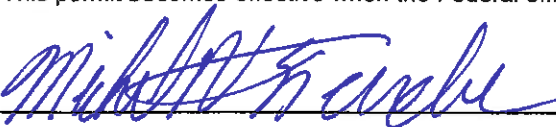
6. **Extensions.** General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X  _____
(PERMITTEE)

X 12-20-2012 _____
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 _____
Michael V Farabee, Chief Eastern Evaluation Section

February 19, 2013 _____
(DATE)

for Edward R. Fleming, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)


(DATE)

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. ~~Reliance on Applicant's Data.~~ The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

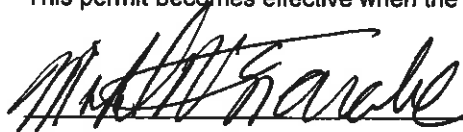
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Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X  X 2/7/2013
 (PERMITTEE) ERIC KALISODA, DEPUTY SECRETARY (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 February 19, 2013
 Michael V Farabee, Chief Eastern Evaluation Section (DATE)

for Edward R. Fleming, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFeree) (DATE)

SPECIAL CONDITIONS: MVN-2009-1353-EFF

7. This Department of the Army permit authorization expires as of December 31, 2014.
8. The borrow site (Alliance Anchorage Borrow Area) identified in the application, is the saltwater barrier sill's primary Borrow Area #1, (Mississippi River Mile 63.8 to Mile 65 AHP). The issuance of this permit and the permittee's actions hereunder, shall in no way adversely affect the cost, time, and schedule of the planning and/or construction of the saltwater barrier sill by the US Army Corps of Engineers (USACE).
9. The permittee must ensure that 500,000 cubic yards (cy) are always available above elevation -70 NGVD, within the Alliance Anchorage Borrow area. A reserve area for this material has been designated and the reserve quantity must be located within the boundaries shown on the enclosed (Mississippi River Hydrographic Survey Salt Water Sill Borrow Area I- map), as **Attachment I**.
10. While this project is ongoing, the permittee must be aware that the USACE may issue a contract to build the sill. If USACE issues a sill solicitation, the permittee shall allow its contractor to bid on the sill contract. If the permittee's contractor is awarded the sill contract, then the permittee shall release the contractor for the time required to build the sill. If the permittee's contractor chooses not to bid on the sill contract or another contractor is awarded the sill contract, the permittee's contractor shall suspend operations and move off site so as not to interfere with or delay the USACE notice to proceed or the sill contractor's work.
11. Until the Alliance Anchorage Borrow Area is naturally restored from the effects of this permit, any additional costs associated with USACE's construction of the sill shall be borne by the permittee. These additional costs could occur after this permit has expired. These additional costs will be calculated by the USACE. The permittee will provide funds prior to USACE opening bids for the saltwater barrier sill contract.
12. Dredging in the Alliance Anchorage Borrow site is limited to a 1V on 5H slope with a control point 400 feet riverward of the levee C/L and El. +5 feet. The permittee shall submit for approval a detailed dredging plan for the Alliance Anchorage Borrow Area. The plan shall be submitted at least 30 days prior to the scheduled commencement of work in the site and shall include hydrographic surveys of the borrow area with plans for dredging; thereby identifying the material to be removed and the 500,000 cy reserved area (material to be reserved above elevation -70 NGVD). USACE must approve the dredging plan prior to the commencement of permittee's work. The surveys and plans shall be updated every 30 days until project completion. All updated plans must also be approved before the permittee can implement the updated plan. The surveys and dredging plan shall be submitted in electronic format and hardcopy to the USACE Mississippi River Operations Manager. For questions or forwarding information, please contact Mrs. Heather Jennings at (504) 862-1253 or heather.l.jennings@usace.army.mil.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

13. To address navigation safety during construction of the project, the permittee will initiate a daily conference call; ~~to include representatives of the dredging contractor, the US Coast Guard,~~ pertinent members of the USACE, and other navigation stakeholders. During construction, the frequency of the conference call can be reduced upon agreement from the US Coast Guard and the USACE.
14. Construction over the Mississippi River levee and back levee and within 10 feet of the levee toes as well as open excavations is limited to river stages below +11 feet on the Carrollton gage.
15. The permittee is aware that USACE project (NOV-NFL-5) is proposed for the back levee, at the vicinity of the project site.
16. Dredging in the Alliance South Anchorage Borrow Site is limited to the limits provided in the URS Stability Analysis report dated September 2012.
17. Dredging in the Wills Point Borrow Site is limited to the limits provided in the URS Stability Analysis report dated September 2012.
18. Any damage to the revetment occurring during or as a result of this work will be repaired at the permittee's expense.
19. Construction is not allowed when a hurricane is within 5 days of affecting the Louisiana coast. During such times, the site must be secured, flood protection maintained, and coordination maintained with the Engineering Division of this district.
20. The authorization does not obviate the permittee from obtaining other necessary approvals from pertinent federal, state, and/or local authorities.
21. You shall notify this office in writing within five working days after construction has been completed.
22. The permittee shall assure that contractors, foremen, and/or workers associated with project implementation are equally cognizant of the conditions and restrictions associated with this approval.
23. If archaeological materials and/or human remains are discovered during ground disturbing activities you shall cease and desist all activities in the project area and contact this office and Mr. Dennis Jones of the Louisiana Office of Cultural Development, Division of Archaeology at (225) 342-8160.
24. The permittee is aware that future site visits and inspections may be conducted to the project area by this office and/or other resource agencies, to assess project compliance with this authorization and requirements associated herewith.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

25. The permittee understands and agrees that, if future operations by the United States require ~~the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the~~ opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
26. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
27. You must install and maintain, at your expense, any safety lights, signs and signals prescribed by the US Coast Guard, through regulations or otherwise, on your authorized facilities.
28. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.,) in the waterway, you are advised to notify the US Coast Guard so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the US Coast Guard, Sector New Orleans Command Center, 200 Hendee Street, New Orleans, Louisiana 70114, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 365-2281.
29. The Chitimacha Tribe of Louisiana has stated that the project area is part of the aboriginal Chitimacha homelands. If during the course of work at the site, prehistoric and/or historic aboriginal cultural materials are discovered, the applicant will contact the Chitimacha Tribe of Louisiana at Post Office Box 661, Charenton, LA 70523, and the Army Corps of Engineers, New Orleans District (CEMVN) Regulatory Branch. CEMVN will initiate the required Federal, State, and Tribal coordination to determine the significance of the cultural materials and the need, if applicable, for additional cultural resource investigations.
30. The proposed project occurs within an area impacted by the Deepwater Horizon Oil Spill in the summer of 2010 and activities such as yours could potentially re-suspend oiled sediments that may be located in the area. It is also noted that cleanup crews associated with the US Coast Guard's Deepwater Horizon Response are potentially working in multiple sites located throughout the Louisiana coastal area. In order to coordinate and mitigate potential re-suspension of oiled sediments, adverse impacts to fish and wildlife species, and safety issues related to cleanup operations; the permittee shall contact and coordinate with LT David R. Simonson, US Coast Guard Deepwater Horizon Response (504-252-8748 or david.r.simonson@uscg.mil) , prior to commencement of work.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

31. After one complete growing season following completion of spoil placement within the proposed beneficial use areas, the permittee will manually breach or degrade the earthen containment dikes to marsh elevation, if they do not degrade naturally.

32. If the proposed project requires any additional work not expressly permitted herein, the permittee must obtain an amendment to this authorization prior to commencement of work.

33. In order to address potential impacts to the **Pallid sturgeon**, the cutterhead shall remain completely buried in the bottom material during dredging operations. If pumping water through the cutterhead is necessary to dislodge material or to clean the pumps or cutterhead, etc., the pumping rate shall be reduced to the lowest rate possible until the cutterhead is at mid-depth, where the pumping rate can then be increased. During dredging, the pumping rates shall be reduced to the slowest speed feasible while the cutterhead is descending to the channel bottom. Should the proposed project directly or indirectly affect the pallid sturgeon or their habitats, further consultation with that office will be necessary.

34. In order to address potential impacts to the **West Indian manatee**; in the event of water-related activities, all personnel associated with the project should be instructed about the potential presence of manatees, manatee speed zones, and the need to avoid collisions with an injury to manatees. All personnel should be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel should be instructed not to attempt to feed or otherwise interact with the animal, although passively taking pictures or video would be acceptable and could provide useful data in the Service's on-going manatee conservation efforts.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

35. During in-water work in areas that potentially support manatees, all on-site personnel are ~~responsible for observing water-related activities for the presence of manatee(s)~~. The following actions will be administered to minimize potential impact to manatee: (1) All work, equipment, and vessel operation should cease if a manatee is spotted within a 50-foot radius (buffer zone) of the active work area. Once the manatee has left the 50 foot buffer zone on its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings of manatee(s) in the buffer zone, in-water work can resume under careful observation for manatees. (2) If a manatee is sighted in or near the project area, all vessels associated with the project should operate at “no wake/idle” speeds within the construction area and at all times while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom. Vessels should follow routes of deep water whenever possible. (3) If used, siltation or turbidity barriers should be properly secured, made of material in which manatees cannot become entangled, and be monitored to avoid manatee entrapment or impeding their movement. (4) Collisions with, injury to, or sightings of manatees should be immediately reported to the US Fish and Wildlife Service’s (USFWS) Louisiana Ecological Services Office (337/291-3100) and the Louisiana Department of Wildlife and Fisheries, Natural Heritage Program (225/765-2821). Please provide the nature of the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible. Should the proposed project directly or indirectly affect the West Indian manatee or their habitats, further consultation with that office will be necessary.

36. In order to minimize potential project impacts to **bald eagles**, particularly where such impacts may constitute “disturbance,” which is prohibited by the BGEPA, the permittee shall abide by the following guidelines:<http://www.fws.gov/southeast/es/baldeagle/NationalBaldEagleManagementGuidelines.pdf>. These Guidelines recommend: (1) maintaining a specified distance between the activity and the nest (buffer area); (2) maintaining natural areas (preferably forested) between the activity and nest trees (landscape buffers); and (3) avoiding certain activities during the breeding season. During any project construction, on-site personnel should be informed of the possible presence of nesting bald eagles in the vicinity of the project boundary, and should identify, avoid, and immediately report any such nests to this office. If a bald eagle nest occurs or is discovered within 1,500 feet of the proposed project area, then an evaluation must be performed to determine whether the project is likely to disturb nesting bald eagles. That evaluation may be conducted on-line at: <http://www.fws.gov/southeast/es/baldeagle>. Following completion of the evaluation, that website will provide a determination of whether additional consultation is necessary. Should you need further assistance interpreting the guidelines, avoidance measures, or performing an on-line project evaluation, please contact Mrs. Patti Holland with the USFWS at (337) 291-3121.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

37. To minimize disturbance to **colonial nesting birds**, the following restrictions on activity ~~should be observed: (1) For colonies containing nesting wading birds (i.e., herons, egrets, night herons, ibis, and roseate spoonbills), anhingas, and/or cormorants, all activity occurring within 1,000 feet of a rookery should be restricted to the non-nesting period (i.e., September 1 through February 15, exact dates may vary within this window depending on species present).~~ (2) On-site contract personnel be informed of the need to identify colonial nesting birds and their nests, and should avoid affecting them during the breeding season. (3) If it is necessary to perform work within 1,000 feet of a known nest site during the nesting season, a migratory bird abatement plan will need to be developed in consultation with the Service. That plan will include deterrence measures to ensure that birds do not nest in proximity to the work area during the construction period. Patti Holland with the USFWS is the Service contact for such matters and can be reached at 337-291-3121.

38. Stockpiling of materials and/or equipment on the BA-39 restoration site, the BA-48 restoration site, or any other existing wetland or ridge, whether natural or restored; is not authorized. Vehicles, equipment and personnel should only access and/or traverse the BA-39 and BA-48 sites when necessary for the construction, inspection, maintenance and removal of the physical sediment pipeline.

39. The permittee shall submit pre and post-construction photographs as well as surveying of elevations at regular intervals (e.g. every 500 feet) in the right of way (ROW) crossing the BA-39 and BA-48 marsh creation areas, the type, acreage, and extent of vegetative coverage (i.e. wetlands, open water) impacted or benefitted by project implementation, and the general condition of the soils (particularly with respect to the presence or absence of rutting). This condition would be applicable to the BA-39 site, as well as any other wetlands and ridges, whether natural or restored. Monitoring shall document initial fill elevations immediately post construction and 1 year post construction. Monitoring should document acres of open water and marsh that received fill and are 0.5 to 2.0 ft NAVD-88, and acres of water that receive some fill but remained subaqueous. Information and surveys shall be submitted and coordinated with this office, the Environmental Protection Agency (EPA), the National Marine Fisheries Service, (NMFS), as well as any other interested resource agencies (particularly those involved in the CWPPRA program), following construction completion. Be aware that follow up field site investigations may be warranted in order to determine if additional efforts may be necessary to restore areas impacted by project implementation.

40. To the greatest extent practicable, the BA-39 site should not be used as a permanent or long-term transportation corridor for vehicular access to portions of the pipeline ROW, west of the existing BA-39 restoration area.

SPECIAL CONDITIONS: MVN-2009-1353-EFF

41. The permittee should use the least environmentally damaging practicable routes and techniques for mobilizing equipment and personnel, for construction and maintenance of the pipeline and its corridor, as well as for the eventual removal and/or replacement of the physical sediment pipeline structure. To the maximum extent practicable, the permittee shall use water access and barge storage of equipment and construction materials.

42. During construction, the width of the pipeline corridor for construction, maintenance, and removal of the sediment pipeline should be minimized to the greatest extent practicable. This condition is applicable to the BA-39 site as well as any other wetlands and ridges, whether natural or restored.

43. Mats, boards, and/or geotextile material should be used where practicable, to minimize rutting and soil compaction from vehicles and equipment. This condition is applicable to the BA-39 site as well as any other wetlands and ridges, whether natural or restored.

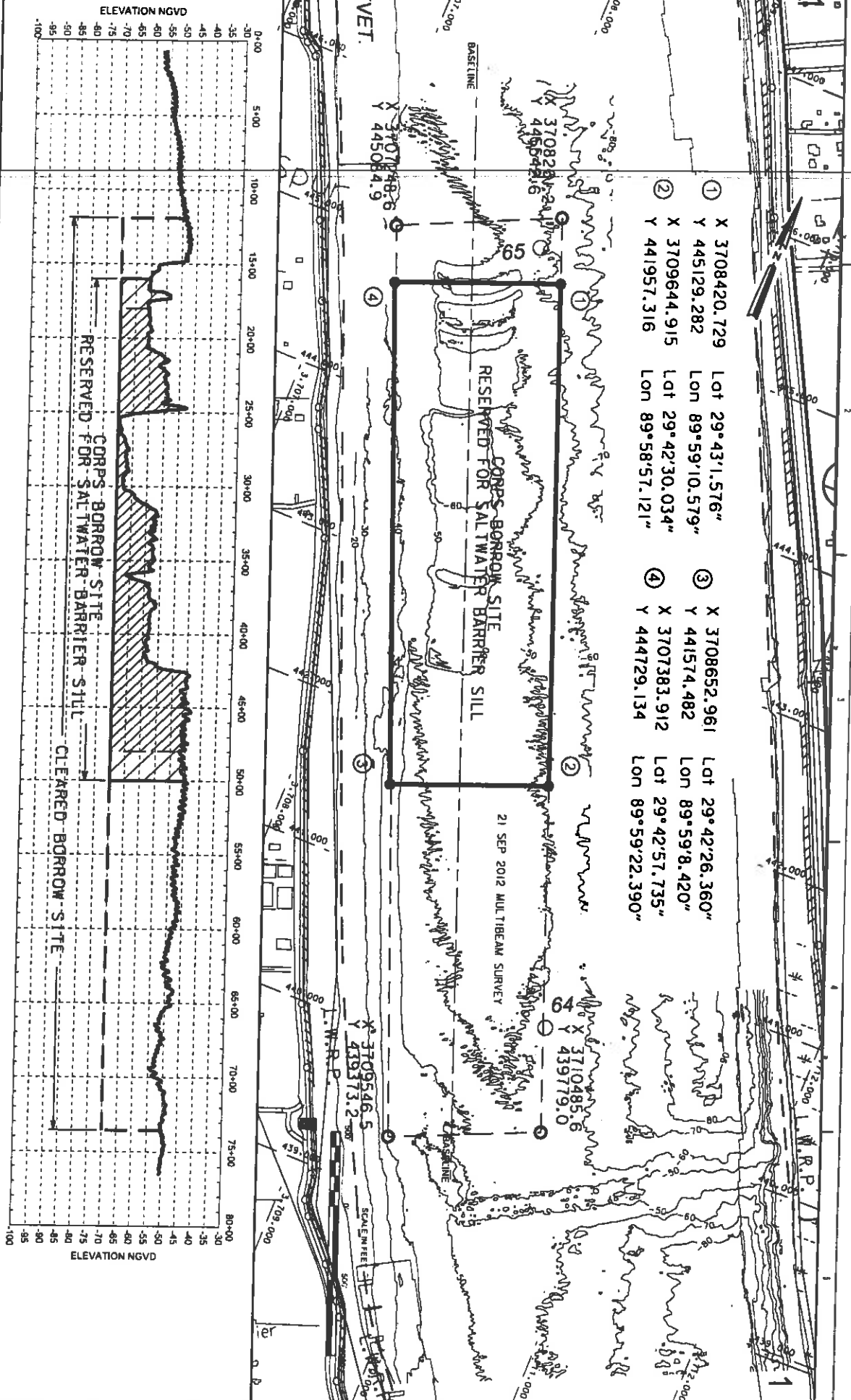
44. Additional fill will be placed in the pipeline ROW or grading undertaken, within the BA-39 and/or BA-48 project areas, which incur any unforeseen impacts or rutting to wetland areas, by construction activities. Remediation of adverse impacts or rutting identified should occur immediately upon cessation of construction activities. It is reasonable to allow for a full growing season to pass, prior to implementing any vegetative plantings, thereby allowing time for natural re-vegetation of any areas damaged by construction activities. However, if damaged areas do not adequately recover within one full growing season, planting of appropriate species may be necessary. If substantial remediation is needed, the permittee should coordinate with this office, the EPA, the NMFS, and any other pertinent agencies, prior to implementation of any such work, to ensure it is consistent with the original goals and intent of the BA-39 project. This condition is also applicable to remediation work on any other wetlands and ridges, whether natural or restored. Surveys and remediation methods should be repeated if and when the physical pipeline structure is removed, replaced, and/or when there is maintenance activity that has the potential to cause substantial damage to soils and/or vegetation.

45. Prior to initiation of work within 1500 feet of the Mississippi River Levee system and/or within 300 feet of the back Hurricane Protection Levee, the permittee must acquire a **Letter of No Objection** from the USACE, Operations Manager of Completed Works. For information relevant this approval, you may contact the (Operations Manager, Mrs. Amy Powell at 504-862-2241) or (Project Manager, Mrs. Karen Clement at 504-862-2313).

SPECIAL CONDITIONS: MVN-2009-1353-EFF

46. Pipeline information including pipeline locations, pipeline owner information and number of pipelines shown on sheet 6 of 41, titled ~~Wills Point Borrow Area Layout~~, is not accurate based on New Orleans District records. The permittee shall investigate the pipelines and ensure that all pipeline information is corrected. CEMVN has some information on these pipelines, but the information is not complete. This information can be obtained by contacting Heather Jennings (504) 862-1253. The permittee shall arrange a meeting between themselves, Heather Jennings and the pipeline owner to verify pipeline locations prior to beginning work.

ATTACHMENT 1



- ① X 3708420.729 Lot 29°43'1.576"
Y 445129.282 Lon 89°59'10.579"
- ② X 3709644.915 Lot 29°42'30.034"
Y 441957.316 Lon 89°58'57.121"
- ③ X 3708652.961 Lot 29°42'26.360"
Y 441574.482 Lon 89°59'8.420"
- ④ X 3707383.912 Lot 29°42'57.735"
Y 444729.134 Lon 89°59'22.390"

MISSISSIPPI RIVER HYDROGRAPHIC SURVEY SALT WATER SILL BORROW AREA 1 N.M.E. 6347 TO 6533	PROJECT NO. 1500000000 DRAWING NO. 1500000000 SHEET NO. 1 DATE 15 NOV 2012
ALL INFORMATION AND PRODUCTIONS OF THIS SURVEY ARE THE PROPERTY OF THE MISSISSIPPI RIVER HYDROGRAPHIC SURVEY AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE MISSISSIPPI RIVER HYDROGRAPHIC SURVEY.	PROJECT LOCATION: MISSISSIPPI RIVER, NEAR THE SALT WATER SILL BORROW AREA 1, N.M.E. 6347 TO 6533. DRAWING TITLE: SALT WATER SILL BORROW AREA 1 SCALE: AS SHOWN DATE: 15 NOV 2012

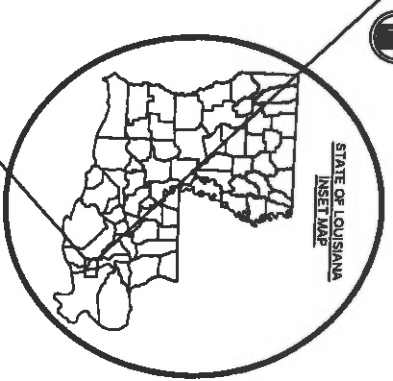
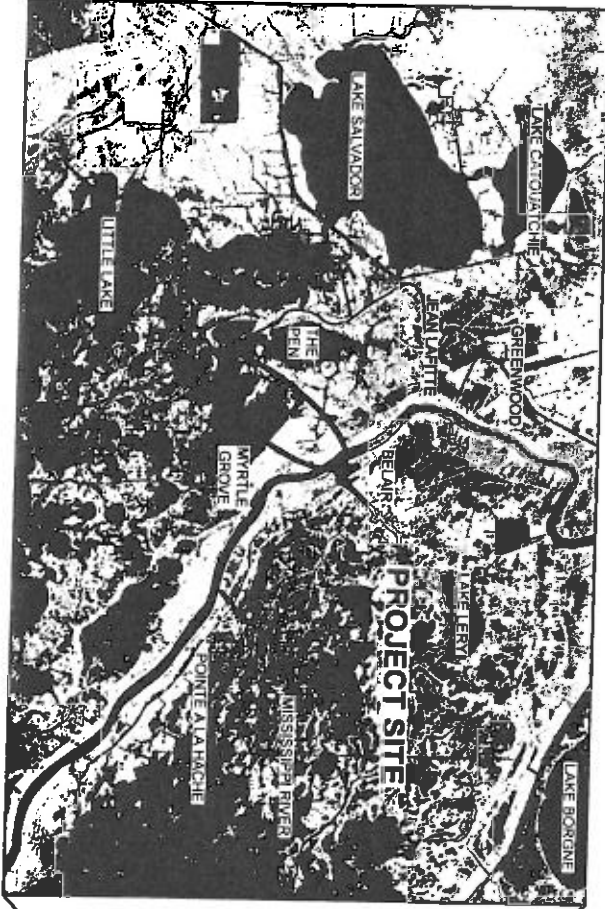
15 NOV 2012

1


INDEX TO DRAWINGS

SHEET No.	DESCRIPTION
1.	TITLE SHEET
2.	PROJECT LAYOUT
3.	GENERAL NOTES & DREDGING NOTES
4.	BORROW AREAS
5.	TYPICAL MISSISSIPPI RIVER PIPELINE SECTIONS
6.	WILLS POINT BORROW AREA LAYOUT
7.	WILLS POINT ANCHORAGE SOUTH BORROW AREA TYPICAL SECTION
8.	ALLIANCE ANCHORAGE BORROW AREA LAYOUT
9.	ALLIANCE ANCHORAGE BORROW AREA TYPICAL SECTION
10.	ALLIANCE SOUTH BORROW AREA LAYOUT SECTION
11.	ALLIANCE SOUTH BORROW AREA TYPICAL SECTION
12.	PIPELINE CORRIDOR LAYOUT (1 OF 4)
13.	PIPELINE CORRIDOR LAYOUT (2 OF 4)
14.	PIPELINE CORRIDOR LAYOUT (3 OF 4)
15.	PIPELINE CORRIDOR LAYOUT (4 OF 4)
16.	PIPELINE CORRIDOR - DETAIL 'A'
17.	PROJECT ALIGNMENT TABLES
18.	TYPICAL FILL SECTIONS (1 OF 4)
19.	TYPICAL FILL SECTIONS (2 OF 4)
20.	TYPICAL FILL SECTIONS (3 OF 4)
21.	TYPICAL FILL SECTIONS (4 OF 4)
22.	ACCESS CHANNEL LAYOUT
23.	TYPICAL ACCESS CHANNEL SECTIONS
24.	BAYOU DUPONT CROSSING DETAIL
25.	BAYOU DUPONT BOOSTER PUMP SITE TYPICAL DETAILS
26.	DREDGE PIPELINE CORRIDOR SECTION
27.	RAILROAD CROSSING DETAIL
28.	HIGHWAY CROSSING DETAIL
29.	MISSISSIPPI RIVER LEVEE CROSSING DETAIL
30.	MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL
31.	CATTLE CROSSING DETAIL
32.	DIRT ROAD CROSSING DETAIL
33.	GRAVEL ROAD CROSSING DETAIL
34.	FLOOD PROTECTION LEVEE CROSSING DETAIL
35.	TEMPORARY SHOAL WARNING SIGN DETAILS
36.	LANDSIDE BOOSTER PUMP PLAN & ELEVATIONS
37.	FLOATING BOOSTER PUMP PLAN & ELEVATIONS
38.	TEMPORARY MARINE ACCESS DOCK DETAILS
39.	NEW BRIDGE/PIPE CROSSING DETAILS (1 OF 3)
40.	NEW BRIDGE/PIPE CROSSING DETAILS (2 OF 3)
41.	NEW BRIDGE/PIPE CROSSING DETAILS (3 OF 3)






STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE
STATE PROJECT No. BA-43 EB
JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA



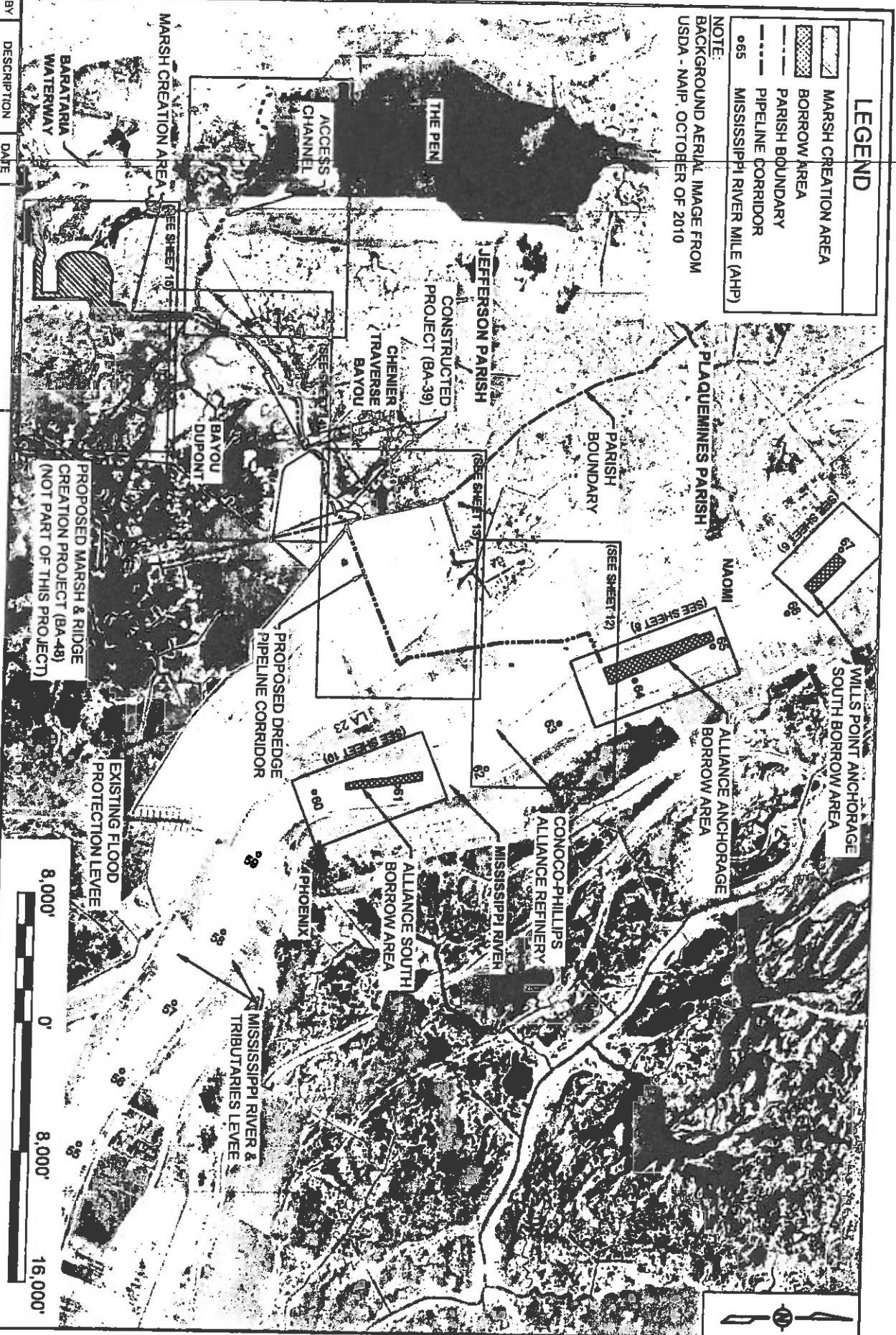
THIS DRAWING SET IS FOR PERMITTING PURPOSES
ONLY AND NOT TO BE USED FOR CONSTRUCTION

BY	DESCRIPTION	DATE	DESIGNED BY SA	APPROVED BY MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012	
SA	REVISION 5	12/12/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7193	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/24/12			APPROVED BY MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: N/A	SHEET 1 OF 41
SA	REVISION 3	03/09/12					


LEGEND

-  MARSH CREATION AREA
-  BORROW AREA
-  PARISH BOUNDARY
-  PIPELINE CORRIDOR
-  MISSISSIPPI RIVER MILE (AHP)

NOTE:
BACKGROUND AERIAL IMAGE FROM
USDA - NAIP, OCTOBER OF 2010



BY	DESCRIPTION	DATE
SA	REVISION 5	12/11/12
SA	REVISION 4	08/22/12
SA	REVISION 3	03/09/12

DESIGNED BY: SA

 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70825
 225-927-1793

COASTAL PROTECTION & RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801
 APPROVED BY: MAURY CHATELIER, P.E.

MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE
 STATE PROJECT NUMBER: BA-43 (EB)
 FEDERAL PROJECT NUMBER: N/A


PROJECT LAYOUT
 DATE: DECEMBER 12, 2012
 SHEET 2 OF 41

GENERAL NOTES:









1. BACKGROUND AERIAL IMAGES FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
2. COORDINATES ARE NAD83, LOUISIANA STATE PLANE, SOUTHERN ZONE, U.S. SURVEY FEET.
3. ALL ELEVATIONS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), U.S. SURVEY FEET.
4. ALL RIVER DATUMS SHOWN BASED ON HISTORIC DATA FOR MISSISSIPPI RIVER AT ALLIANCE (01390) RIVER MILE 62.5. RECORDS AVAILABLE FROM APRIL 2, 1977 TO DATE.
5. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 50' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
6. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE SLURRY PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS AT THE TIME OF CONSTRUCTION. ALL PIPELINES AND UNDERGROUND UTILITIES SHALL BE FIELD LOCATED AND MARKED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 72 HOURS PRIOR TO ANY EXCAVATION.
9. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE OF THE CONSTRUCTION LIMITS.
10. THIS DRAWING SET IS FOR PERMITTING PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.
11. ESTIMATED RANGE OF FULLY-LOADED DRAFTS FOR VESSELS TO BE USED DURING CONSTRUCTION:
 - a. 4,000 HP TUGS 15-20 FT
 - b. 2,000 HP TUGS 10-14 FT
 - c. WORK BOATS, TENDERS 6-8 FT
 - d. CREWBOATS 2-4 FT
 - e. BOOSTER PUMP BARGES, WORK BARGES, FUEL BARGES 4-6 FT
 - f. SMALL BARGE-MOUNTED CLAMSHELL OR EXCAVATOR 4-8 FT
 - g. LARGE HYDRAULIC DREDGE 10 FT

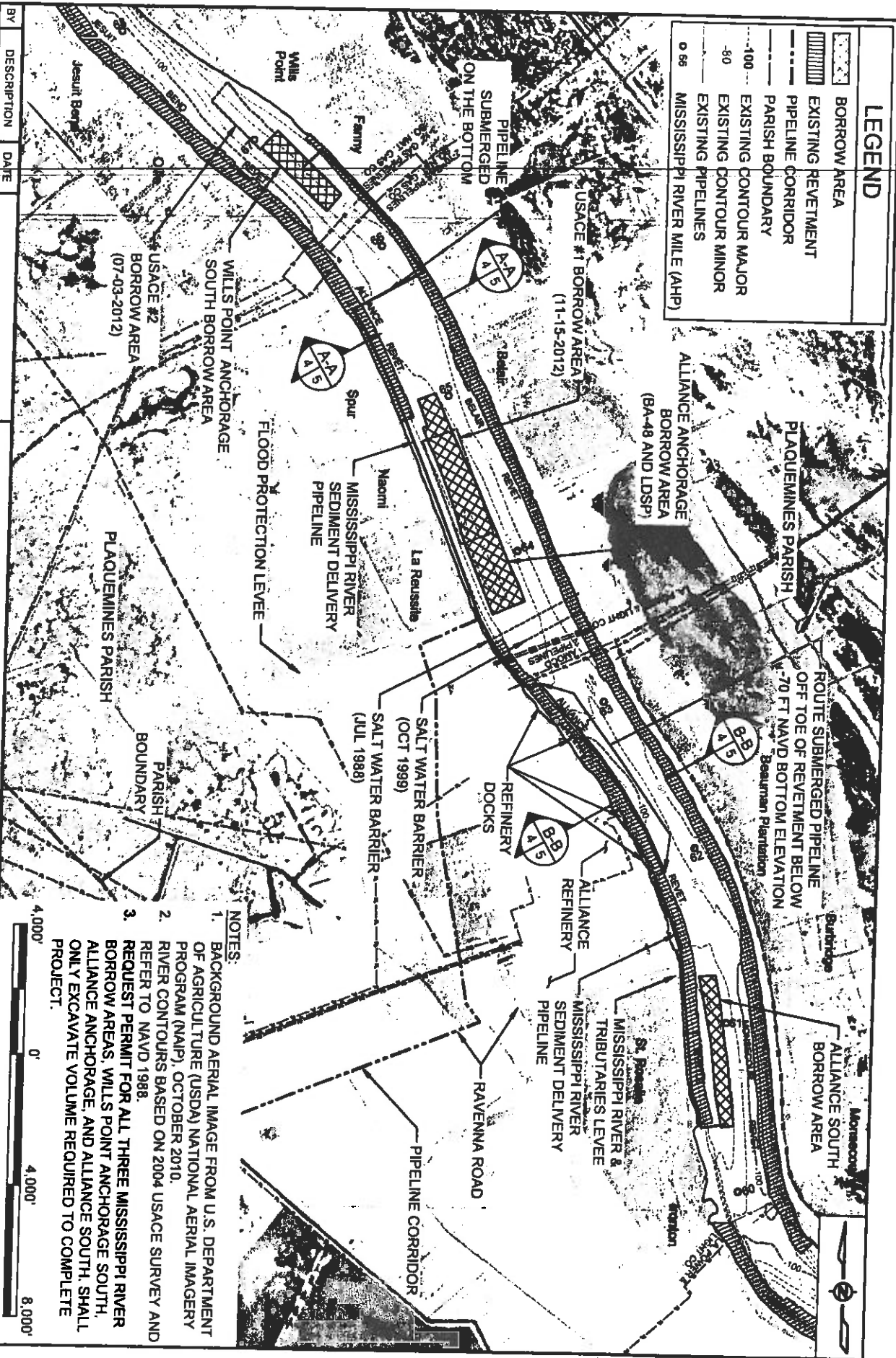
DREDGING NOTES:

1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN IN SHEETS 6, 8 AND 10.
2. DREDGE ANCHOR LIMITS SHALL BE MARKED WITH BUOYS AS SHOWN IN SHEETS 6, 8 AND 10.
3. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN WILL BE NOT ALLOWED.
4. DREDGING WILL BE ALLOWED TO A MAXIMUM DEPTH OF -90 FT NAVD88.
5. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USAGE OPERATIONS DIVISION, AND MNSA DELINEATING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE OWNER SPECIFICATIONS.

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-387-7103		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		GENERAL & DREDGING NOTES	
SA	REVISION 5	12/17/12					STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/22/12					FEDERAL PROJECT NUMBER: N/A		SHEET 3 OF 41	
SA	REVISION 3	03/08/12								
DRAWN BY: YC			DESIGNED BY SA		APPROVED BY: MAURY CHATELLIER, P.E.					

LEGEND

-  BORROW AREA
-  EXISTING REVETMENT
-  PIPELINE CORRIDOR
-  PARISH BOUNDARY
-  EXISTING CONTOUR MAJOR
-  EXISTING CONTOUR MINOR
-  EXISTING PIPELINES
-  MISSISSIPPI RIVER MILE (AHP)



NOTES:

1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. RIVER CONTOURS BASED ON 2004 USACE SURVEY AND REFER TO NAVD 1988.
3. REQUEST PERMIT FOR ALL THREE MISSISSIPPI RIVER BORROW AREAS, WILLS POINT ANCHORAGE SOUTH, ALLIANCE ANCHORAGE, AND ALLIANCE SOUTH, SHALL ONLY EXCAVATE VOLUME REQUIRED TO COMPLETE PROJECT.



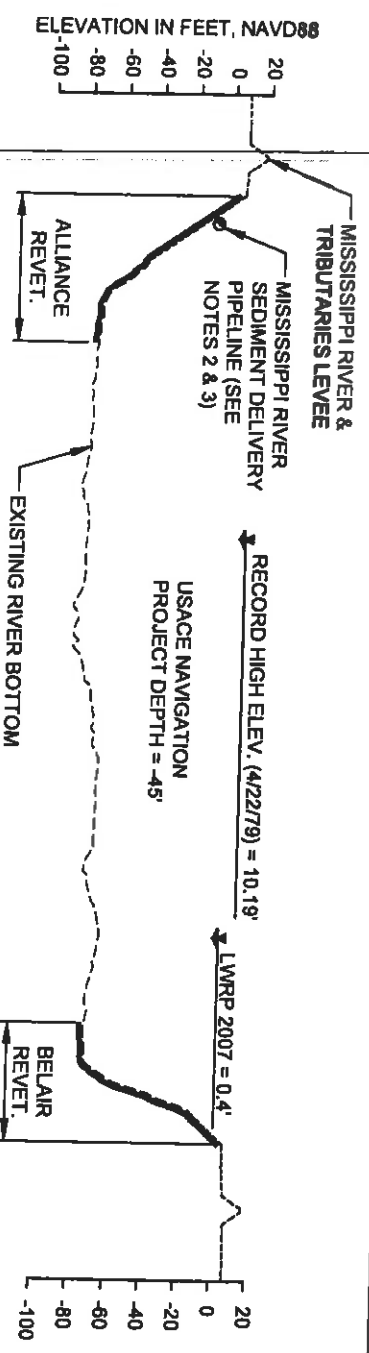
BY	DESCRIPTION	DATE
SA	REVISION 5	12/15/12
SA	REVISION 4	08/21/12
SA	REVISION 3	03/09/12

ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 900
 BATON ROUGE, LA 70825
 225-871-7193

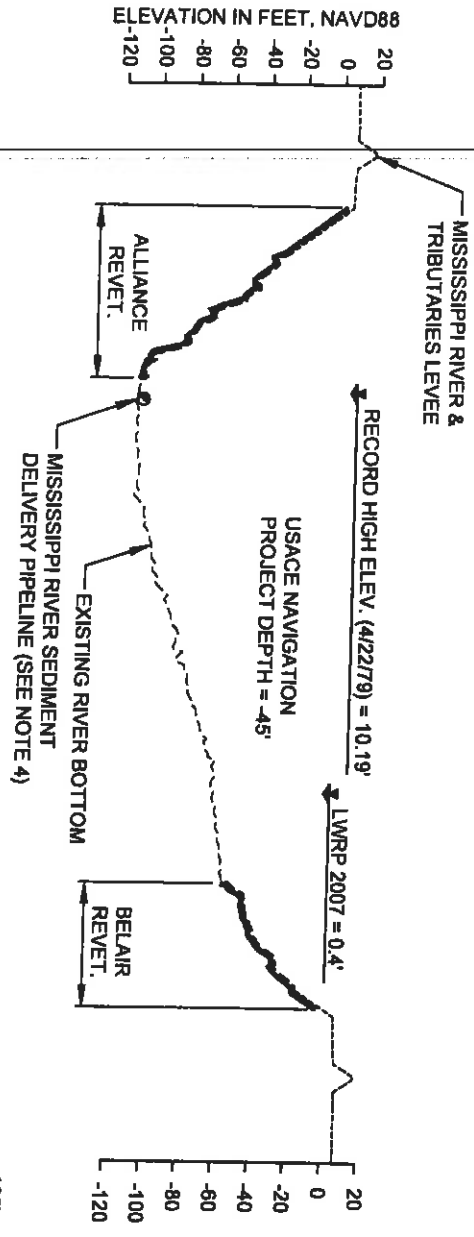
COASTAL PROTECTION & RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DESIGNED BY: SA
 APPROVED BY: MAURY CHATELIER, P.E.

STATE PROJECT NUMBER:	DATE:
BA-43 (EB)	DECEMBER 12, 2012
FEDERAL PROJECT NUMBER:	SHEET:
N/A	4 OF 41

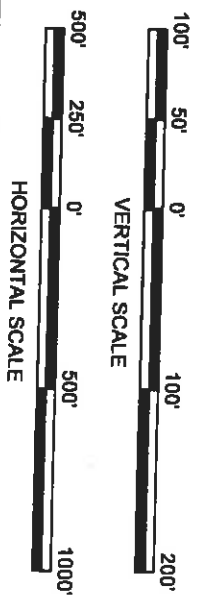


AAA
4
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
RIVER MILE 65.6



B-B
4
TYPICAL MISSISSIPPI RIVER PIPELINE SECTION
RIVER MILE 62.5

- NOTES:
1. RIVER BOTTOM PROFILES BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. ROUTE SUBMERGED PIPELINE OFF TOE OF REVELTMENT BELOW -70 FEET NAVD BOTTOM ELEVATION.

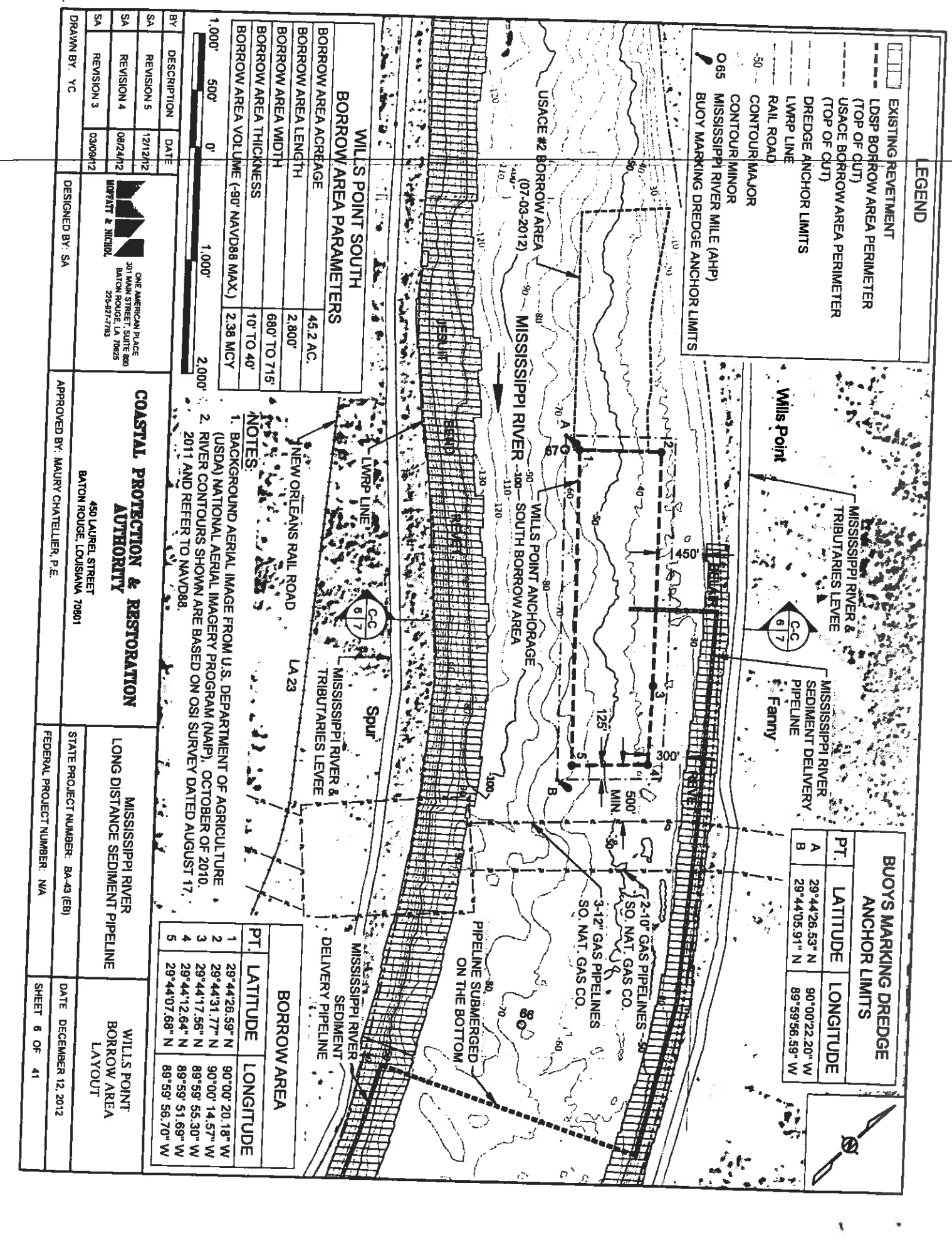


BY	DESCRIPTION	DATE	DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.		STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012		
SA	REVISION 5	12/21/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70828 225-927-1793		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	TYPICAL MISSISSIPPI RIVER PIPELINE SECTIONS		
SA	REVISION 4	08/24/12						MISSISSIPPI RIVER & TRIBUTARIES LEVEE	MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE (SEE NOTES 2 & 3)	MISSISSIPPI RIVER PIPELINE SECTION
SA	REVISION 3	03/09/12						ALLIANCE REVERT.	EXISTING RIVER BOTTOM	REVELTMENT BELOW -70 FEET NAVD BOTTOM ELEVATION.
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.		FEDERAL PROJECT NUMBER: N/A	SHEET 5 OF 41		

LEGEND

- EXISTING REVEITEMENT
- LDSP BORROW AREA PERIMETER (TOP OF CUT)
- USACE BORROW AREA PERIMETER (TOP OF CUT)
- DREDGE ANCHOR LIMITS
- LWRP LINE
- RAIL ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- MISSISSIPPI RIVER MILE (AHP)
- BUOY MARKING DREDGE ANCHOR LIMITS

BUOYS MARKING DREDGE ANCHOR LIMITS			
PT.	LATITUDE	LONGITUDE	
A	29°44'26.53" N	90°00'22.20" W	
B	29°44'05.91" N	89°59'56.59" W	



WILL'S POINT SOUTH BORROW AREA PARAMETERS

BORROW AREA ACREAGE	452 AC.
BORROW AREA LENGTH	2,800'
BORROW AREA WIDTH	680' TO 715'
BORROW AREA THICKNESS	10' TO 40'
BORROW AREA VOLUME (-90° NAVD88 MAX)	2.38 MCY

- NOTES:**
- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
 - RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

BORROW AREA		
PT.	LATITUDE	LONGITUDE
1	29°44'26.53" N	90°00'20.18" W
2	29°44'31.77" N	90°00'14.57" W
3	29°44'17.56" N	89°59'55.30" W
4	29°44'12.64" N	89°59'51.69" W
5	29°44'07.68" N	89°59'56.70" W

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA, 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

WILL'S POINT
BORROW AREA
LAYOUT

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

DESIGNED BY: SA







APPROVED BY: MAURY CHATELIER, P.E.

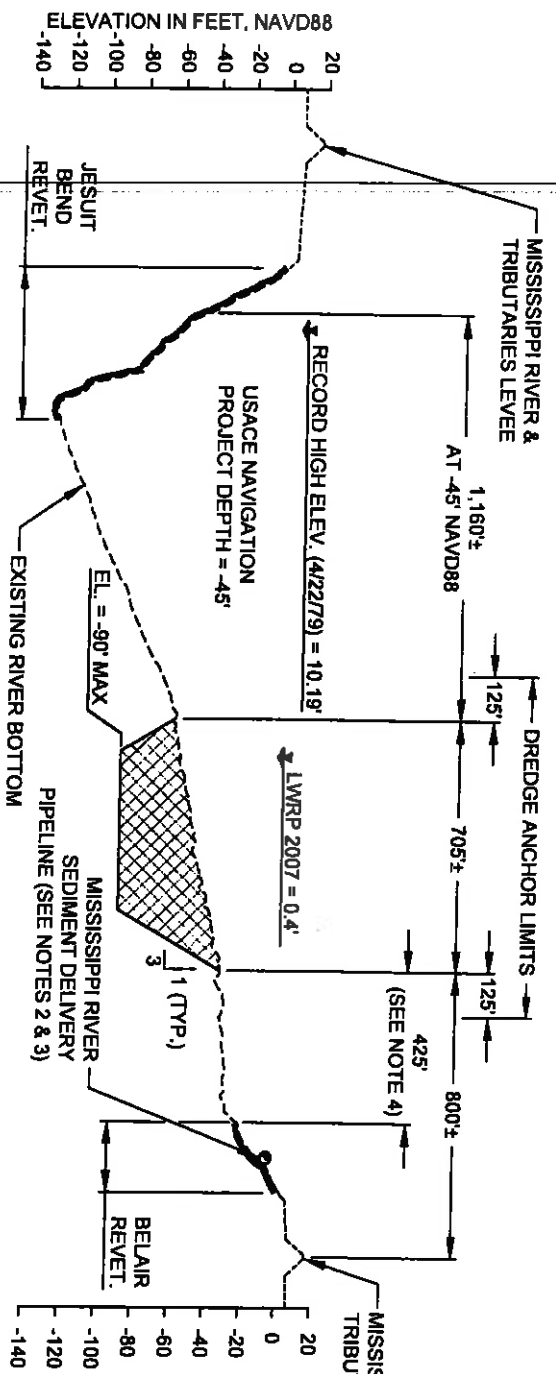
STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012
SHEET 6 OF 41



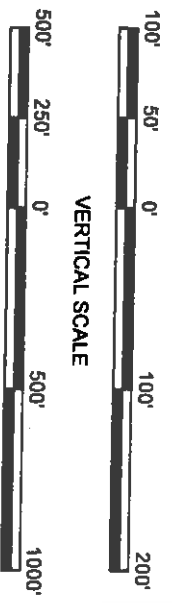
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-927-7783

LEGEND	
	BORROW AREA
	AUGUST 2011 SURVEY
	APPROX. EXISTING GRADE
	EXISTING REVETMENT
	DESIGN
	SEDIMENT DELIVERY PIPELINE




WILLS POINT ANCHORAGE SOUTH
 RIVER MILE 66.7

- NOTES:
- RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 - MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 - SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 - MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF BELAIR REVETMENT VARIES FROM 300 TO 450 FEET.



HORIZONTAL SCALE

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/29/12

DRAWN BY: YC



DESIGNED BY: SA

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

STATE PROJECT NUMBER: BA-43 (EB)

FEDERAL PROJECT NUMBER: N/A

WILLS POINT ANCHORAGE
SOUTH BORROW AREA
TYPICAL SECTION

DATE: DECEMBER 12, 2012

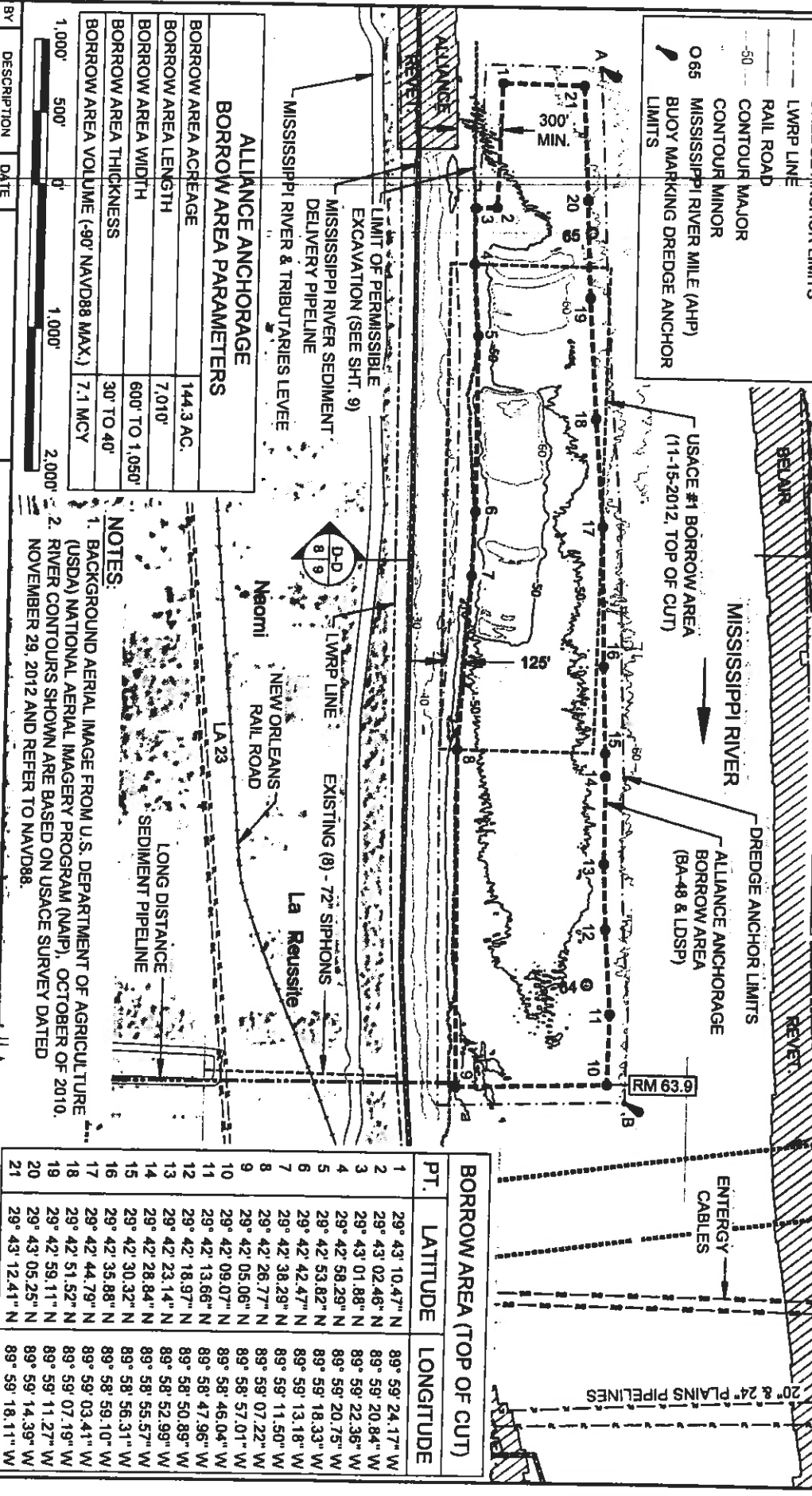
SHEET 7 OF 41

LEGEND	
[Symbol]	EXISTING REVEMENT
[Symbol]	LDSP BORROW AREA PERIMETER (TOP OF CUT)
[Symbol]	USACE BORROW AREA PERIMETER (TOP OF CUT)
[Symbol]	DREDGE ANCHOR LIMITS
[Symbol]	LWRP LINE
[Symbol]	RAIL ROAD
[Symbol]	CONTOUR MAJOR
[Symbol]	CONTOUR MINOR
[Symbol]	MISSISSIPPI RIVER MILE (AHP)
[Symbol]	BUOY MARKING DREDGE ANCHOR LIMITS

BUOYS MARKING DREDGE ANCHOR LIMITS		
PT.	LATITUDE	LONGITUDE
A	29°43'13.97" N	89°59'17.37" W
B	29°43'08.38" N	89°58'44.24" W

SALT WATER BARRIER C.L. (OCT 1989)		
PT.	LATITUDE	LONGITUDE
A	29°43'13.97" N	89°59'17.37" W
B	29°43'08.38" N	89°58'44.24" W

SALT WATER BARRIER C.L. (JUL 1988)		
PT.	LATITUDE	LONGITUDE
A	29°43'13.97" N	89°59'17.37" W
B	29°43'08.38" N	89°58'44.24" W



BORROW AREA PARAMETERS

BORROW AREA ACREAGE	144.3 AC.
BORROW AREA LENGTH	7,010'
BORROW AREA WIDTH	600' TO 1,050'
BORROW AREA THICKNESS	30' TO 40'
BORROW AREA VOLUME (-90° NAVD88 MAX.)	7.1 MCY







- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
 2. RIVER CONTOURS SHOWN ARE BASED ON USAGE SURVEY DATED NOVEMBER 29, 2012 AND REFER TO NAVD88.

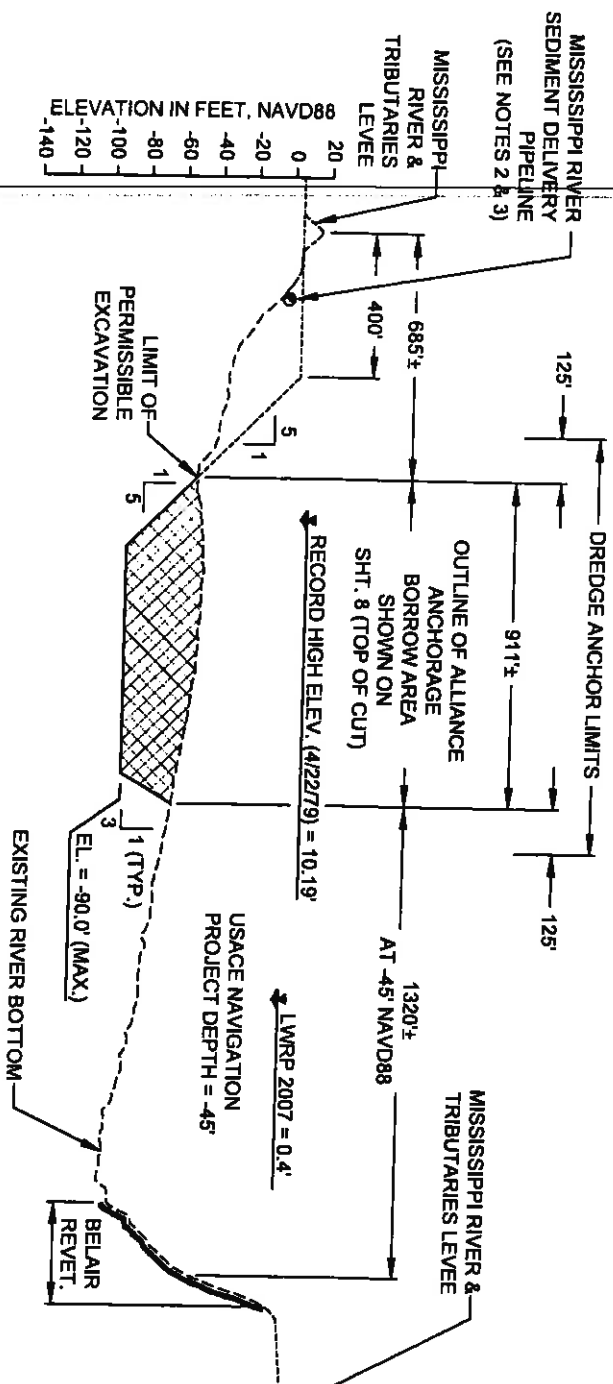
PT.	LATITUDE	LONGITUDE
1	29° 43' 10.47" N	89° 59' 24.17" W
2	29° 43' 02.46" N	89° 59' 20.84" W
3	29° 43' 01.88" N	89° 59' 22.36" W
4	29° 42' 58.29" N	89° 59' 20.75" W
5	29° 42' 53.82" N	89° 59' 18.33" W
6	29° 42' 42.47" N	89° 59' 13.18" W
7	29° 42' 38.29" N	89° 59' 11.50" W
8	29° 42' 26.77" N	89° 59' 07.22" W
9	29° 42' 05.06" N	89° 58' 57.01" W
10	29° 42' 09.07" N	89° 58' 46.04" W
11	29° 42' 13.66" N	89° 58' 47.96" W
12	29° 42' 18.97" N	89° 58' 50.89" W
13	29° 42' 23.14" N	89° 58' 52.99" W
14	29° 42' 28.84" N	89° 58' 55.57" W
15	29° 42' 30.32" N	89° 58' 56.31" W
16	29° 42' 35.88" N	89° 58' 59.10" W
17	29° 42' 44.79" N	89° 59' 03.41" W
18	29° 42' 51.52" N	89° 59' 07.19" W
19	29° 42' 58.11" N	89° 59' 11.27" W
20	29° 43' 05.25" N	89° 59' 14.39" W
21	29° 43' 12.41" N	89° 59' 18.11" W

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

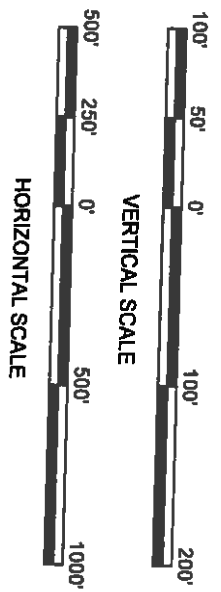
DESIGNED BY SA	APPROVED BY MAURY CHATELLIER, P.E.
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COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-997-1788	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
FEDERAL PROJECT NUMBER: N/A			SHEET 8 OF 41

LEGEND	
	LDSP BORROW AREA
	AUGUST 2011 SURVEY
	APPROX. EXISTING GRADE
	EXISTING REVELTMENT
	DESIGN
	SEDIMENT DELIVERY PIPELINE




D-D
8
ALLIANCE ANCHORAGE BORROW AREA
RIVER MILE 64.3



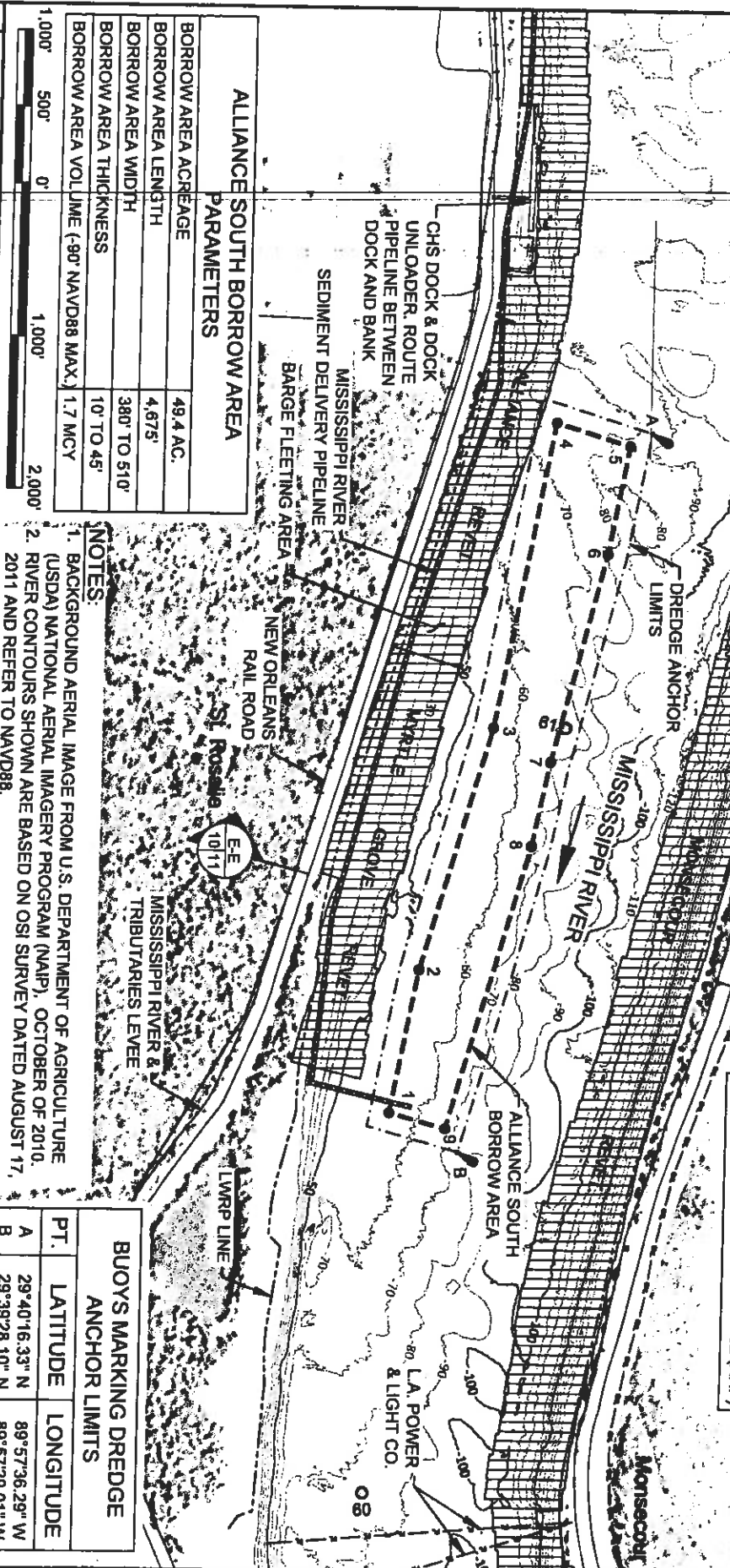
- NOTES:**
1. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVELTMENT IS 300 FEET.

BY	DESCRIPTION	DATE
SA	REVISION 5	12/21/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12
DRAWN BY: YC		

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-971-7155	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	APPROVED BY: MAURY CHATELLIER, P.E.
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STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
FEDERAL PROJECT NUMBER: N/A	SHEET 9 OF 41

BORROW AREA		
PT.	LATITUDE	LONGITUDE
1	29° 39' 28.84" N	89° 57' 34.83" W
2	29° 39' 38.21" N	89° 57' 36.89" W
3	29° 39' 54.65" N	89° 57' 38.79" W
4	29° 40' 14.66" N	89° 57' 43.18" W
5	29° 40' 15.02" N	89° 57' 37.45" W
6	29° 40' 07.95" N	89° 57' 35.89" W
7	29° 39' 53.95" N	89° 57' 33.84" W
8	29° 39' 48.38" N	89° 57' 32.73" W
9	29° 39' 28.21" N	89° 57' 30.56" W



ALLIANCE SOUTH BORROW AREA PARAMETERS

BORROW AREA ACREAGE	49.4 AC.
BORROW AREA LENGTH	4,675'
BORROW AREA WIDTH	380' TO 510'
BORROW AREA THICKNESS	10' TO 45'
BORROW AREA VOLUME (90° NAVD88 MAX.)	1.7 MCY

- NOTES:**
- BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
 - RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.

BUOYS MARKING DREDGE ANCHOR LIMITS		
PT.	LATITUDE	LONGITUDE
A	29°40'16.33" N	89°57'36.29" W
B	29°39'28.10" N	89°57'29.01" W

LEGEND

- EXISTING REVEMENT
- LDSP BORROW AREA PERIMETER (TOP OF CUT)
- DREDGE ANCHOR LIMITS
- LWRP LINE
- RAIL ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- MISSISSIPPI RIVER MILE (AHP)

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12
SA	DESIGNED BY: SA	









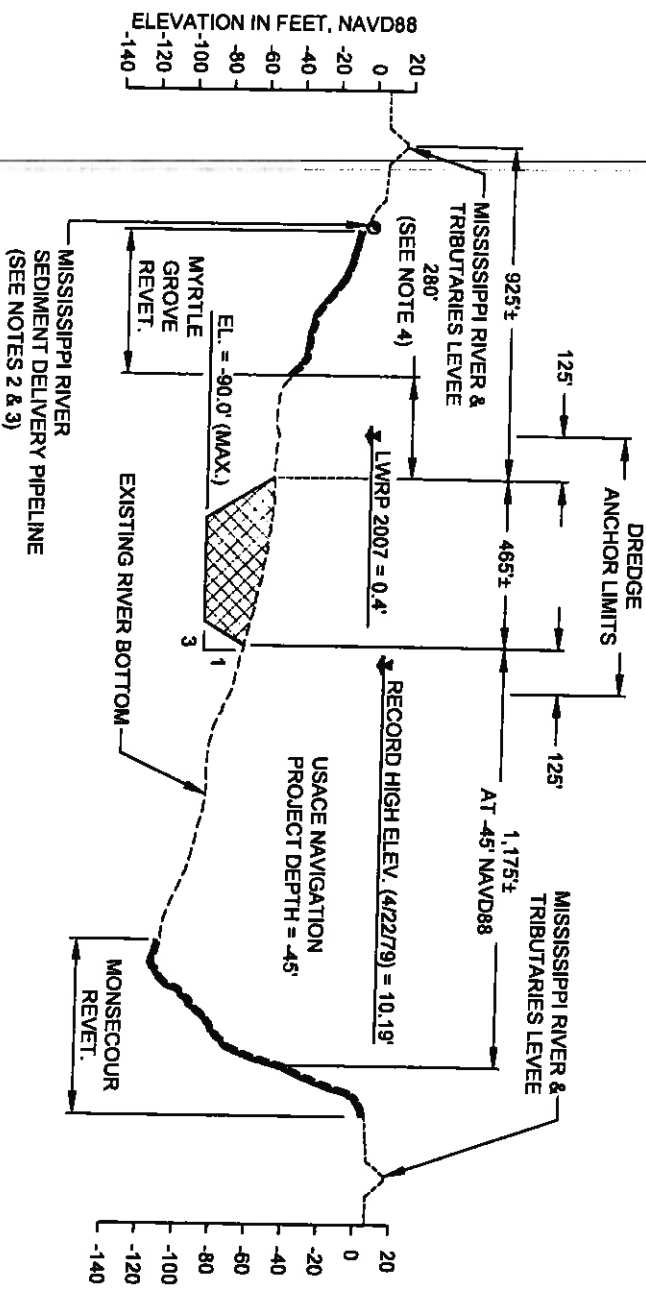
COASTAL PROTECTION & RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE

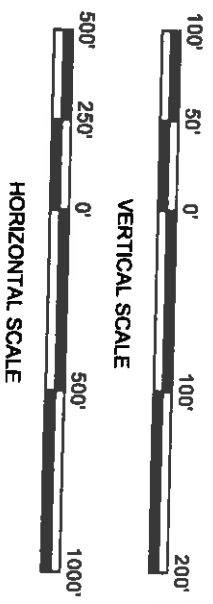
ALLIANCE SOUTH
 BORROW AREA
 LAYOUT

APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
	FEDERAL PROJECT NUMBER: N/A	SHEET 10 OF 41

LEGEND	
	BORROW AREA
	AUGUST 2011 SURVEY
	APPROX. EXISTING GRADE
	EXISTING REVETMENT
	DESIGN
	SEDIMENT DELIVERY PIPELINE




ALLIANCE SOUTH BORROW AREA
 RIVER MILE 60.7



- NOTES:
1. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
 2. MISSISSIPPI RIVER SEDIMENT DELIVERY PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FEET FROM THE LWRP.
 3. SEDIMENT DELIVERY PIPELINE MAY BE SUBMERGED OR FLOATING.
 4. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF MYRTLE GROVE REVETMENT VARIES FROM 110 TO 340 FEET.

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



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

MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE

ALLIANCE SOUTH
 BORROW AREA
 TYPICAL SECTION

DESIGNED BY: SA

APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)

FEDERAL PROJECT NUMBER: N/A

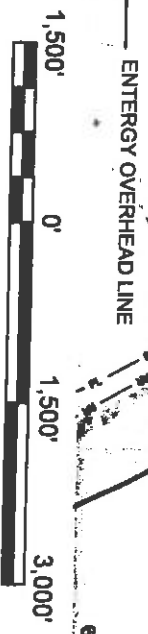
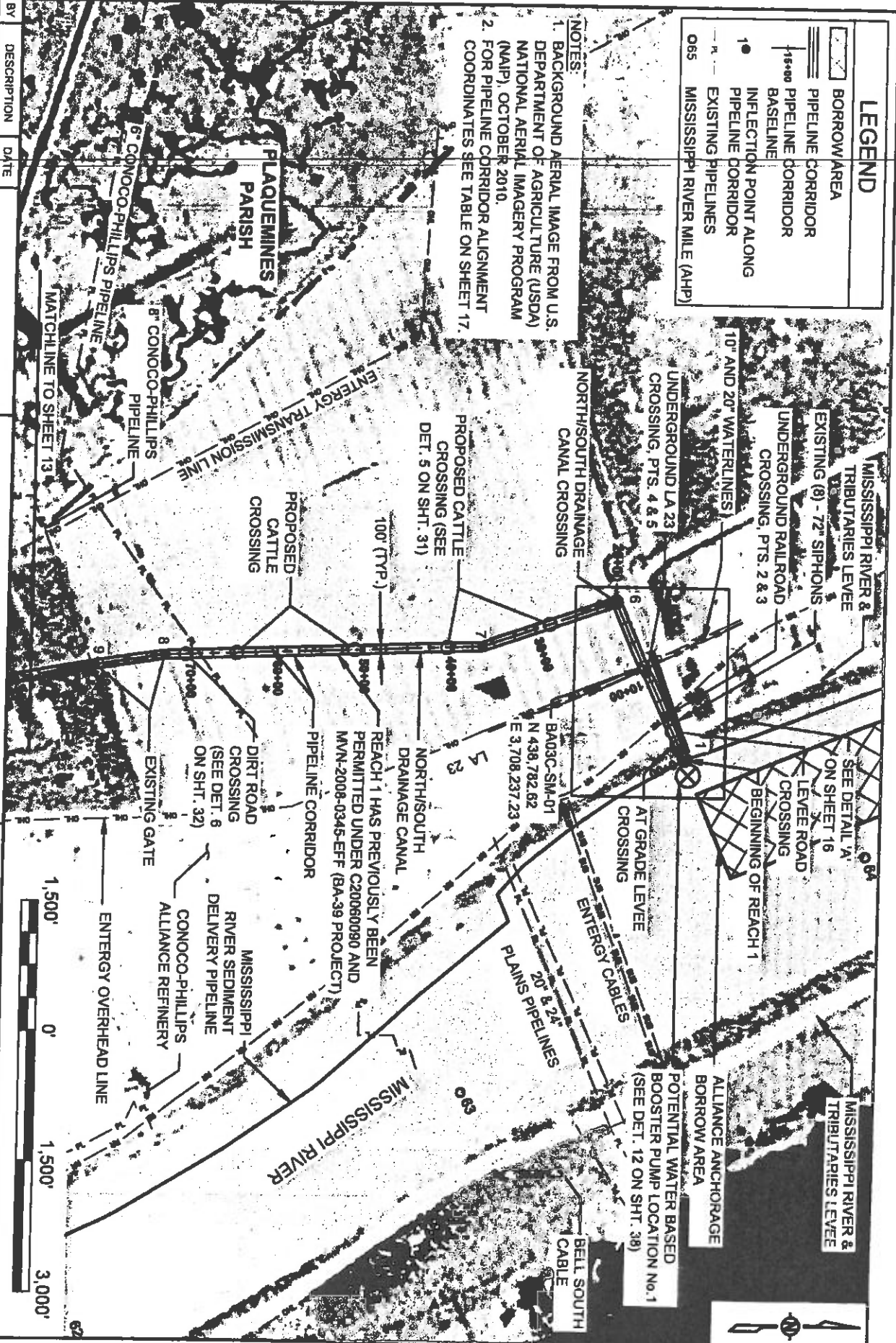
DATE: DECEMBER 12, 2012

SHEET 11 OF 41

LEGEND

- BORROW AREA
- PIPELINE CORRIDOR
- PIPELINE CORRIDOR
- BASELINE
- INFLECTION POINT ALONG PIPELINE CORRIDOR
- EXISTING PIPELINES
- 065 MISSISSIPPI RIVER MILE (AHP)

- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.



COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

PIPELINE CORRIDOR
LAYOUT (1 OF 4)

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



DESIGNED BY: SA

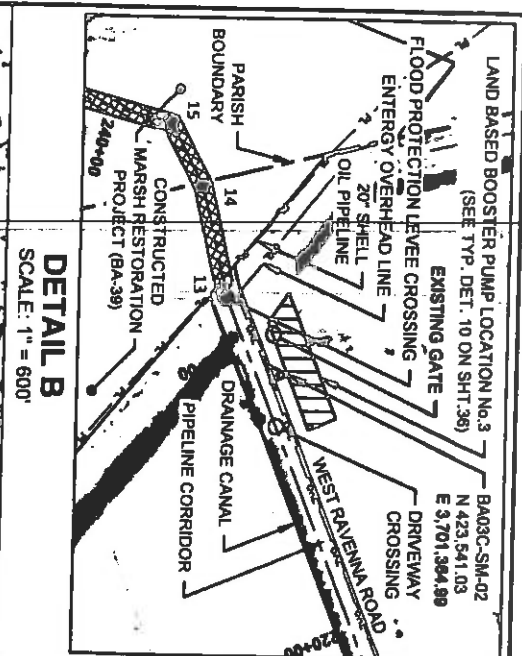
APPROVED BY: MAURY CHATELIER, P.E.

STATE PROJECT NUMBER: BA-43 (E9)

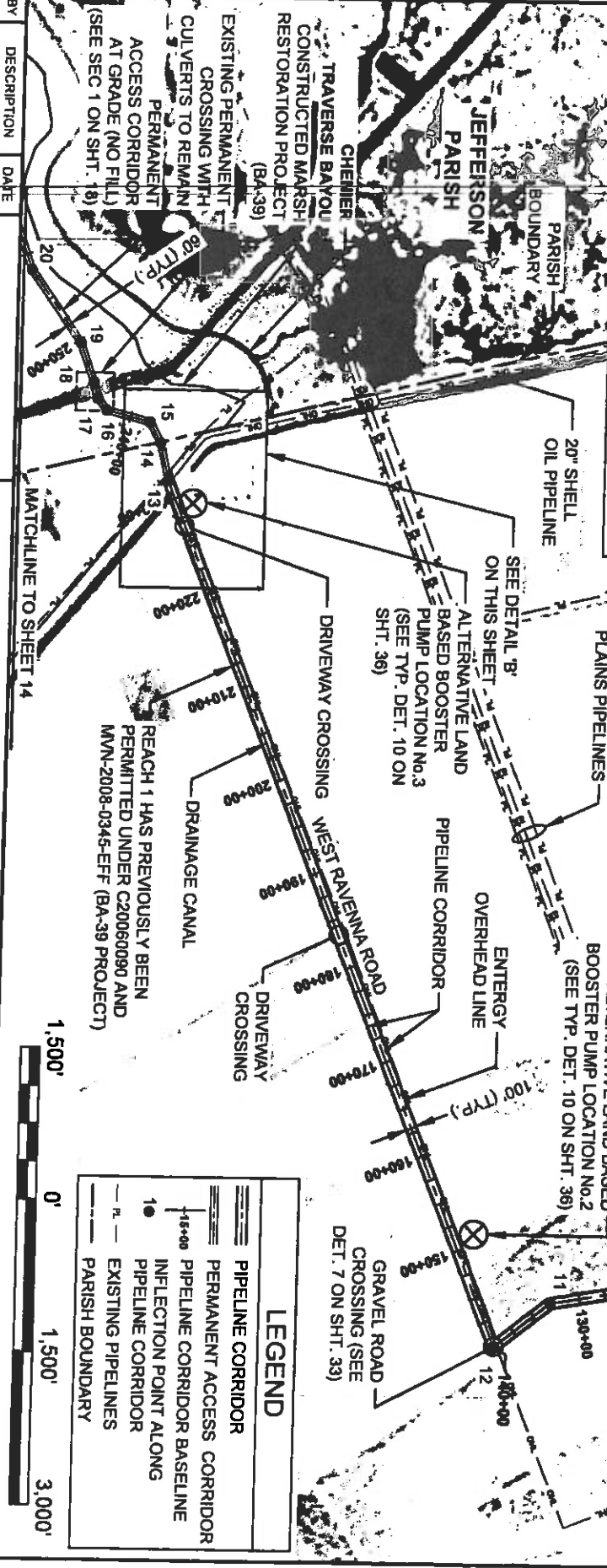
DATE: DECEMBER 12, 2012

FEDERAL PROJECT NUMBER: N/A

SHEET 12 OF 41



DETAIL B
SCALE: 1" = 600'



- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.

LEGEND

	PIPELINE CORRIDOR
	PERMANENT ACCESS CORRIDOR
	PIPELINE CORRIDOR BASELINE
	INFLECTION POINT ALONG PIPELINE CORRIDOR
	EXISTING PIPELINES
	PARISH BOUNDARY



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

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

PIPELINE CORRIDOR LAYOUT (2 OF 4)

BY	DESCRIPTION	DATE
SA	REVISION 5	12/21/12
SA	REVISION 4	08/22/12
SA	REVISION 3	03/08/12

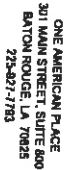
DESIGNED BY: SA
DRAWN BY: YC

APPROVED BY: MAURLY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012
SHEET 13 OF 41

ONE AMERICAN PLACE
301 MAIN STREET, SUITE 600
BATON ROUGE, LA 70825
225-927-7783












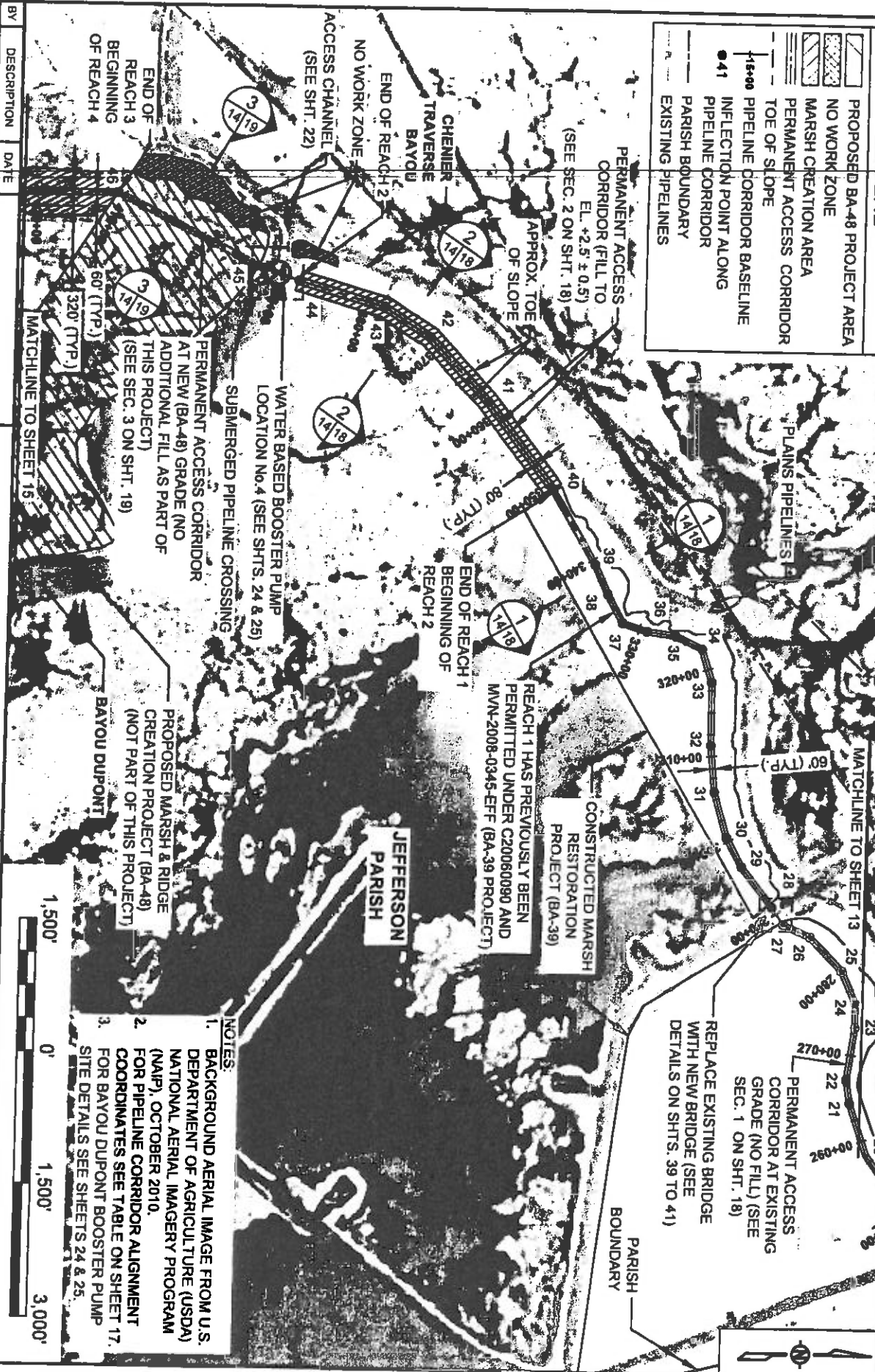
BA03C-SM-02
N 423,541.03
E 3,701,364.89

REACH 1 HAS PREVIOUSLY BEEN PERMITTED UNDER C20060090 AND MVN-2008-0345-EFF (BA-39 PROJECT)

MATCHLINE TO SHEET 12
MATCHLINE TO SHEET 14

LEGEND

-  PROPOSED BA-48 PROJECT AREA
-  NO WORK ZONE
-  MARSH CREATION AREA
-  PERMANENT ACCESS CORRIDOR
-  TOE OF SLOPE
-  PIPELINE CORRIDOR BASELINE
-  41 INFLECTION POINT ALONG PIPELINE CORRIDOR
-  PARISH BOUNDARY
-  EXISTING PIPELINES



NOTES:

1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
2. FOR PIPELINE CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 17.
3. FOR BAYOU DUPONT BOOSTER PUMP SITE DETAILS SEE SHEETS 24 & 25.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/08/12

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

MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE

PIPELINE CORRIDOR LAYOUT (3 OF 4)

DESIGNED BY: SA









APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)

DATE: DECEMBER 12, 2012

DRAWN BY: YC
 ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 600
 BATON ROUGE, LA 70825
 225-407-7783
 FEDERAL PROJECT NUMBER: N/A
 SHEET 14 OF 41

LEGEND

-  PROPOSED BA-48 PROJECT AREA
-  MARSH CREATION AREA
-  PERMANENT ACCESS CORRIDOR
-  PIPELINE CORRIDOR BASELINE
-  INFLECTION POINT
-  TOP OF SLOPE
-  EARTHEN CONTAINMENT DIKE
-  EXISTING PIPELINES



- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. FOR PIPELINE CORRIDOR ALIGNMENT & ADDITIONAL MARSH CREATION AREA COORDINATES SEE TABLE ON SHEET 17.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

COASTAL PROTECTION & RESTORATION AUTHORITY

ONE AMERICAN PLACE
301 MAHON STREET, SUITE 600
BATON ROUGE, LA 70825
225-387-7793

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

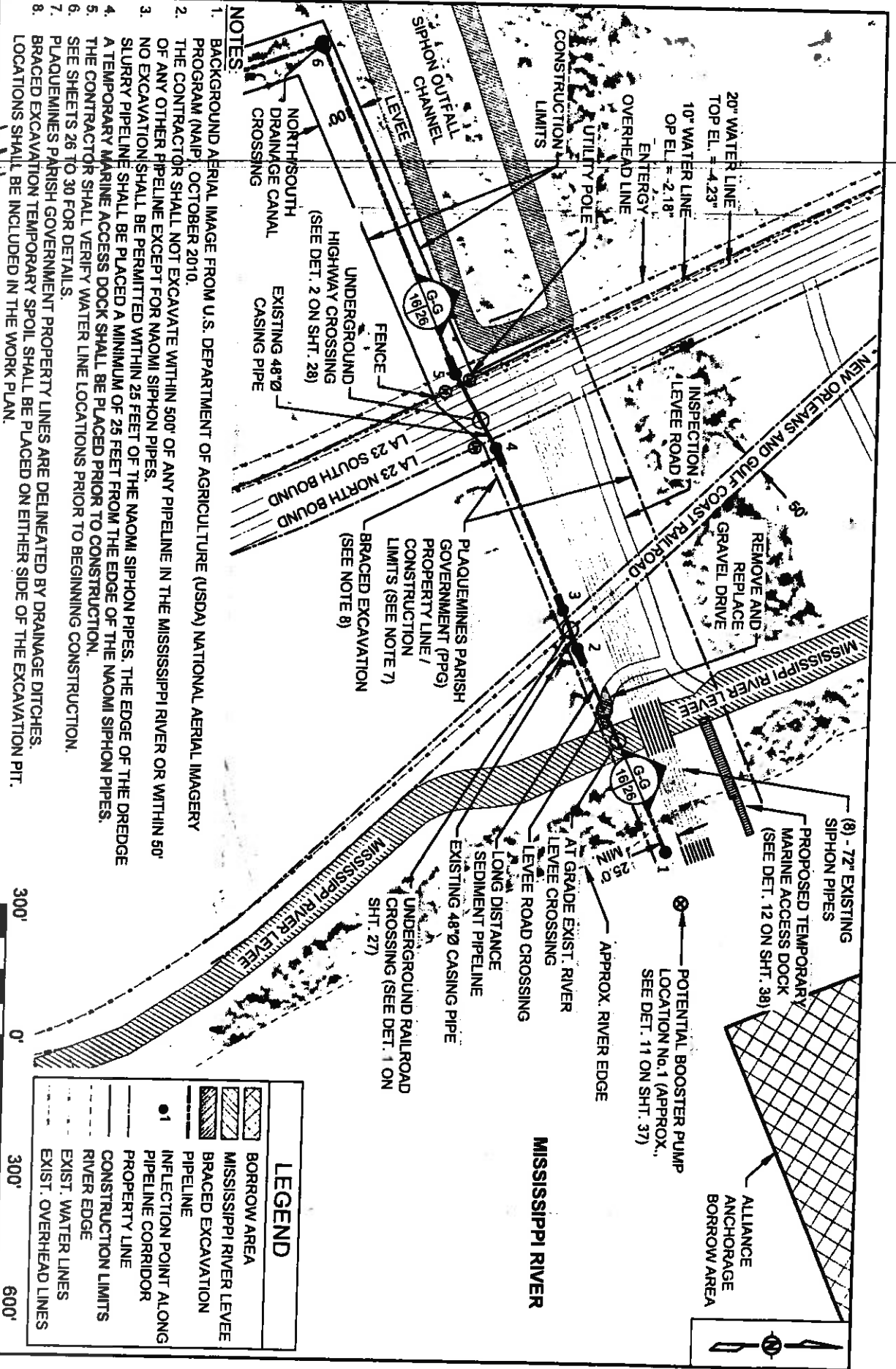
STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

PIPELINE CORRIDOR LAYOUT (4 OF 4)

DATE: DECEMBER 12, 2012
SHEET 15 OF 41

DESIGNED BY: SA
APPROVED BY: MAURY CHATELIER, P.E.

DRAWN BY: YC



- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 500' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
 3. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE SLURRY PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
 4. A TEMPORARY MARINE ACCESS DOCK SHALL BE PLACED PRIOR TO CONSTRUCTION.
 5. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
 6. SEE SHEETS 26 TO 30 FOR DETAILS.
 7. PLAQUEMINES PARISH GOVERNMENT PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES.
 8. BRACED EXCAVATION TEMPORARY SPOIL SHALL BE PLACED ON EITHER SIDE OF THE EXCAVATION PIT.
 9. LOCATIONS SHALL BE INCLUDED IN THE WORK PLAN.



LEGEND	
	BORROW AREA
	MISSISSIPPI RIVER LEVEE
	BRACED EXCAVATION PIPELINE
	INFLECTION POINT ALONG PIPELINE CORRIDOR
	PROPERTY LINE
	CONSTRUCTION LIMITS
	RIVER EDGE
	EXIST. WATER LINES
	EXIST. OVERHEAD LINES

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

<p>ONE AMERICAN PLACE 307 MAIN STREET, SUITE 800 BATON ROUGE, LA 70805 225-927-7783</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY</p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>
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DESIGNED BY: SA	APPROVED BY: MAURY CHATELLER, P.E.
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STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
FEDERAL PROJECT NUMBER: N/A	SHEET 16 OF 41

PIPELINE CORRIDOR ALIGNMENT

PT.	LATITUDE	LONGITUDE
1	29° 42' 03.65" N	89° 59' 01.44" W
2	29° 42' 01.58" N	89° 59' 06.71" W
3	29° 42' 01.24" N	89° 59' 07.71" W
4	29° 41' 59.67" N	89° 59' 11.90" W
5	29° 41' 58.73" N	89° 59' 13.82" W
6	29° 41' 56.64" N	89° 59' 22.27" W
7	29° 41' 40.40" N	89° 59' 16.32" W
8	29° 41' 04.23" N	89° 59' 15.22" W
9	29° 40' 56.28" N	89° 59' 13.92" W
10	29° 40' 16.52" N	89° 59' 06.00" W
11	29° 40' 05.58" N	89° 59' 04.03" W
12	29° 40' 00.10" N	89° 59' 59.20" W
13	29° 39' 27.14" N	90° 00' 36.31" W
14	29° 39' 26.32" N	90° 00' 40.52" W
15	29° 39' 25.26" N	90° 00' 42.84" W
16	29° 39' 21.00" N	90° 00' 44.18" W
17	29° 39' 20.08" N	90° 00' 45.51" W
18	29° 39' 19.67" N	90° 00' 47.36" W
19	29° 39' 18.35" N	90° 00' 51.73" W
20	29° 39' 13.49" N	90° 00' 59.89" W
21	29° 39' 11.57" N	90° 01' 06.43" W
22	29° 39' 11.17" N	90° 01' 09.43" W
23	29° 39' 12.07" N	90° 01' 16.15" W
24	29° 39' 12.08" N	90° 01' 19.20" W
25	29° 39' 10.50" N	90° 01' 23.40" W
26	29° 39' 06.93" N	90° 01' 27.77" W
27	29° 39' 03.93" N	90° 01' 29.37" W
28	29° 39' 02.66" N	90° 01' 31.56" W
29	29° 38' 58.09" N	90° 01' 36.77" W
30	29° 38' 57.33" N	90° 01' 40.53" W
31	29° 38' 55.85" N	90° 01' 46.47" W
32	29° 38' 55.39" N	90° 01' 52.52" W
33	29° 38' 55.40" N	90° 02' 00.71" W
34	29° 38' 54.26" N	90° 02' 05.00" W
35	29° 38' 51.24" N	90° 02' 06.67" W
36	29° 38' 48.03" N	90° 02' 07.20" W
37	29° 38' 45.29" N	90° 02' 08.26" W
38	29° 38' 43.58" N	90° 02' 11.97" W
39	29° 38' 42.10" N	90° 02' 15.78" W
40	29° 38' 37.05" N	90° 02' 25.47" W
41	29° 38' 29.71" N	90° 02' 36.65" W
42	29° 38' 23.16" N	90° 02' 45.01" W
43	29° 38' 17.99" N	90° 02' 48.83" W
44	29° 38' 08.30" N	90° 02' 52.14" W
45	29° 38' 03.70" N	90° 02' 54.05" W

PT.	LATITUDE	LONGITUDE
46	29° 37' 47.94" N	90° 03' 03.37" W
47	29° 36' 48.43" N	90° 03' 03.76" W
48	29° 36' 49.44" N	90° 03' 08.53" W
49	29° 36' 47.82" N	90° 03' 14.80" W
50	29° 36' 45.83" N	90° 03' 15.40" W
51	29° 36' 14.08" N	90° 03' 15.80" W
52	29° 36' 14.19" N	90° 03' 26.04" W
53	29° 36' 14.03" N	90° 03' 39.98" W
54	29° 36' 15.72" N	90° 03' 46.51" W
55	29° 36' 09.48" N	90° 04' 16.78" W

ADDITIONAL MARSH AREA
(TOP OF SLOPE)

PT.	LATITUDE	LONGITUDE
1	29° 37' 09.74" N	90° 03' 05.44" W
2	29° 36' 51.36" N	90° 03' 05.55" W
3	29° 36' 52.00" N	90° 03' 08.60" W
4	29° 36' 50.03" N	90° 03' 16.24" W
5	29° 36' 46.63" N	90° 03' 18.64" W
6	29° 36' 29.79" N	90° 03' 25.34" W
7	29° 36' 29.79" N	90° 03' 28.15" W
8	29° 36' 29.53" N	90° 03' 28.15" W
9	29° 36' 29.65" N	90° 03' 40.60" W
10	29° 36' 34.21" N	90° 03' 45.20" W
11	29° 36' 41.70" N	90° 03' 47.24" W
12	29° 36' 49.99" N	90° 03' 46.13" W
13	29° 36' 56.56" N	90° 03' 42.32" W
14	29° 36' 59.84" N	90° 03' 32.70" W
15	29° 36' 59.65" N	90° 03' 13.33" W
16	29° 37' 02.51" N	90° 03' 12.08" W
17	29° 37' 08.41" N	90° 03' 10.74" W

PROBABLE PROPOSED
BOOSTER PUMP LOCATIONS

PT.	LATITUDE	LONGITUDE
1	29° 42' 04.01" N	89° 58' 00.12" W
2	29° 39' 58.03" N	89° 59' 11.71" W
3	29° 39' 29.57" N	90° 00' 33.78" W
4	29° 38' 05.92" N	90° 02' 53.14" W

ACCESS CHANNEL ALIGNMENT

PT.	LATITUDE	LONGITUDE
1	29° 38' 33.79" N	90° 05' 43.76" W
2	29° 38' 36.11" N	90° 05' 38.23" W
3	29° 38' 35.25" N	90° 05' 38.05" W
4	29° 38' 33.34" N	90° 05' 37.43" W
5	29° 38' 33.08" N	90° 05' 35.59" W
6	29° 38' 32.07" N	90° 05' 34.21" W
7	29° 38' 30.85" N	90° 05' 31.02" W
8	29° 38' 30.78" N	90° 05' 28.75" W
9	29° 38' 28.67" N	90° 05' 18.84" W
10	29° 38' 28.43" N	90° 05' 16.81" W
11	29° 38' 30.26" N	90° 05' 15.41" W
12	29° 38' 33.49" N	90° 05' 13.23" W
13	29° 38' 34.70" N	90° 05' 06.01" W
14	29° 38' 35.21" N	90° 05' 00.40" W
15	29° 38' 34.77" N	90° 04' 55.13" W
16	29° 38' 33.52" N	90° 04' 49.78" W
17	29° 38' 31.55" N	90° 04' 38.98" W
18	29° 38' 24.42" N	90° 04' 37.22" W
19	29° 38' 22.33" N	90° 04' 33.99" W
20	29° 38' 17.09" N	90° 04' 28.39" W
21	29° 38' 16.07" N	90° 04' 25.78" W
22	29° 38' 14.53" N	90° 04' 20.94" W
23	29° 38' 12.55" N	90° 04' 18.04" W
24	29° 38' 11.96" N	90° 04' 14.17" W
25	29° 38' 11.26" N	90° 04' 11.61" W
26	29° 38' 10.59" N	90° 04' 11.11" W
27	29° 38' 08.55" N	90° 04' 09.47" W
28	29° 38' 07.56" N	90° 04' 07.09" W
29	29° 38' 05.95" N	90° 03' 57.32" W
30	29° 38' 04.23" N	90° 03' 53.74" W
31	29° 38' 01.33" N	90° 03' 50.99" W
32	29° 37' 58.26" N	90° 03' 48.16" W
33	29° 37' 58.56" N	90° 03' 42.71" W
34	29° 37' 58.67" N	90° 03' 39.88" W
35	29° 37' 59.61" N	90° 03' 38.16" W
36	29° 38' 00.16" N	90° 03' 36.90" W
37	29° 37' 59.91" N	90° 03' 36.03" W
38	29° 37' 58.56" N	90° 03' 35.09" W
39	29° 37' 56.92" N	90° 03' 29.95" W
40	29° 37' 56.06" N	90° 03' 23.74" W
41	29° 37' 55.53" N	90° 03' 20.42" W
42	29° 37' 53.79" N	90° 03' 15.34" W
43	29° 37' 52.82" N	90° 03' 12.51" W
44	29° 37' 52.65" N	90° 03' 10.55" W
45	29° 37' 52.76" N	90° 02' 51.89" W

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

ONE AMERICAN PLACE
301 MAUN STREET, SUITE 400
BATON ROUGE, LA 70825
225-427-7719

MAURIT & MAURY

DESIGNED BY SA

APPROVED BY MAURY CHATELLIER, P.E.

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE

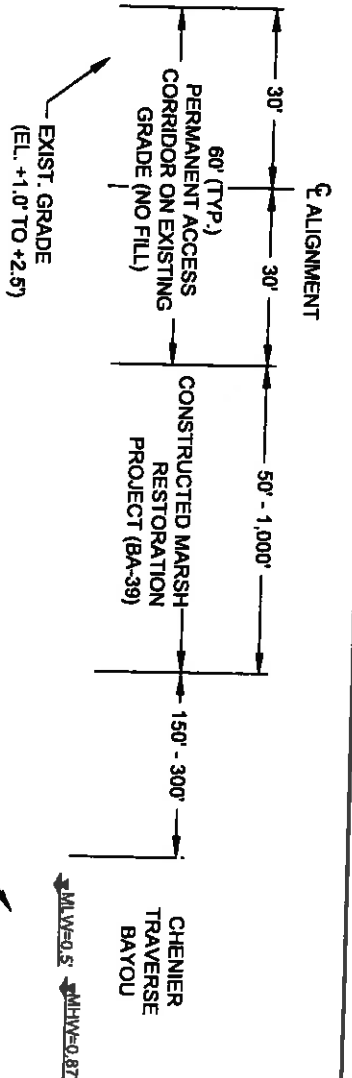
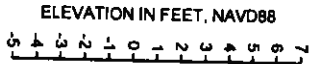
STATE PROJECT NUMBER: BA-43 (EB)

FEDERAL PROJECT NUMBER: N/A

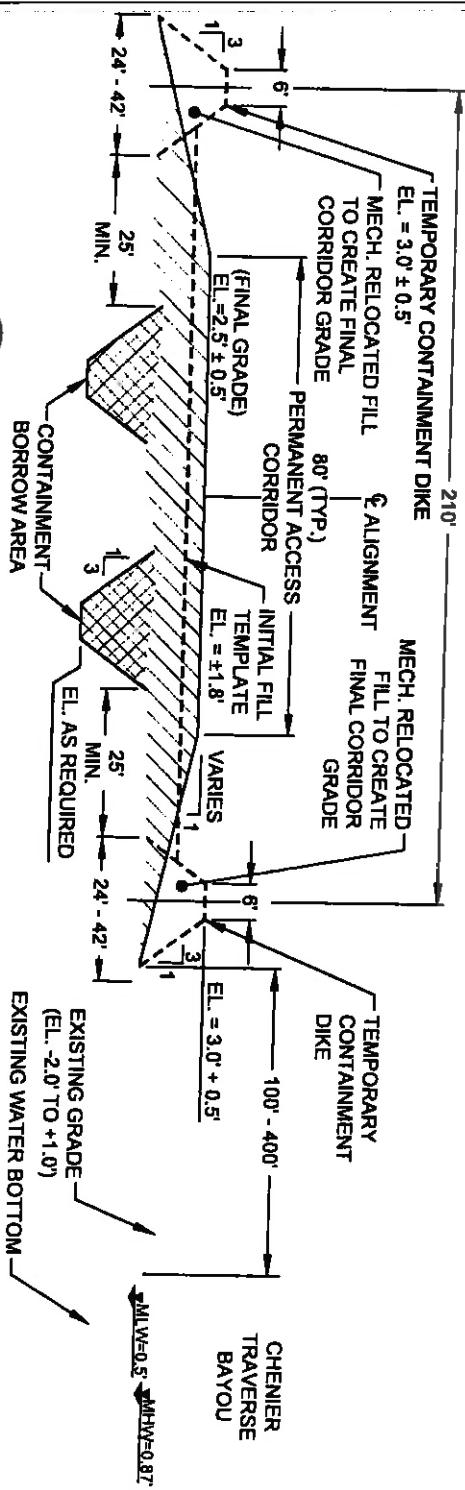
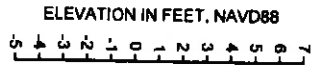
PROJECT ALIGNMENT TABLES

DATE: DECEMBER 12, 2012

SHEET 17 OF 41



1 TYPICAL REACH 1 SECTION (ACROSS BA-39 PROJECT AREA)
 (STA. 232+12.07 TO STA. 349+28.02)



2 TYPICAL REACH 2 SECTION (BETWEEN BA-39 & BAYOU DUPONT)
 (STA. 349+28.02 TO STA. 388+06.42)

NOTE:
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC
 SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10,
 2011 BY T. BAKER SMITH, LLC.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70823
 225-387-7793

MAURY & CHATELIER

DESIGNED BY: SA

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

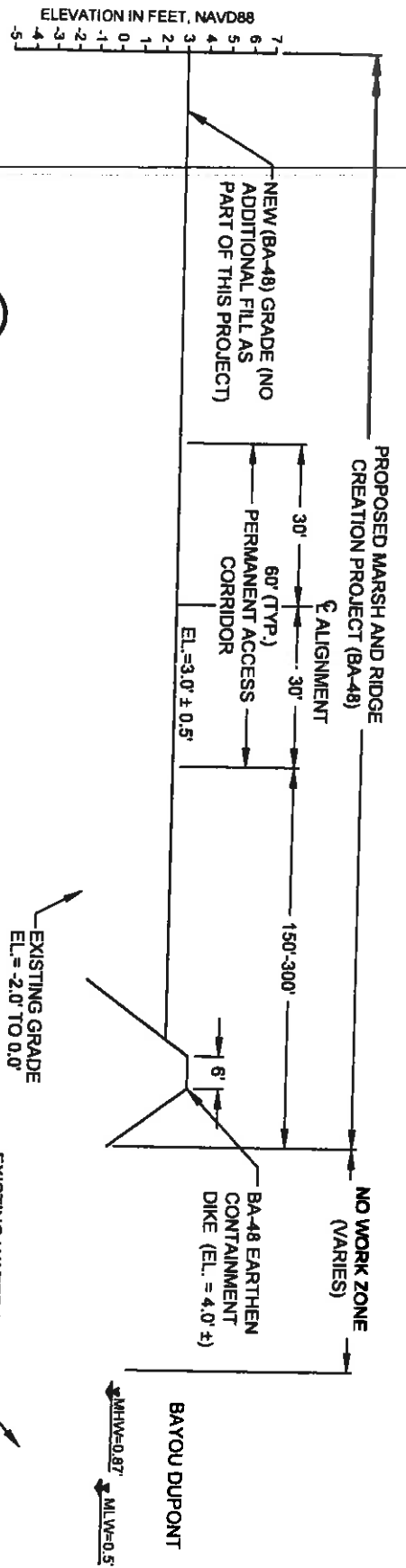
APPROVED BY: MAURY CHATELIER, P.E.

MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE

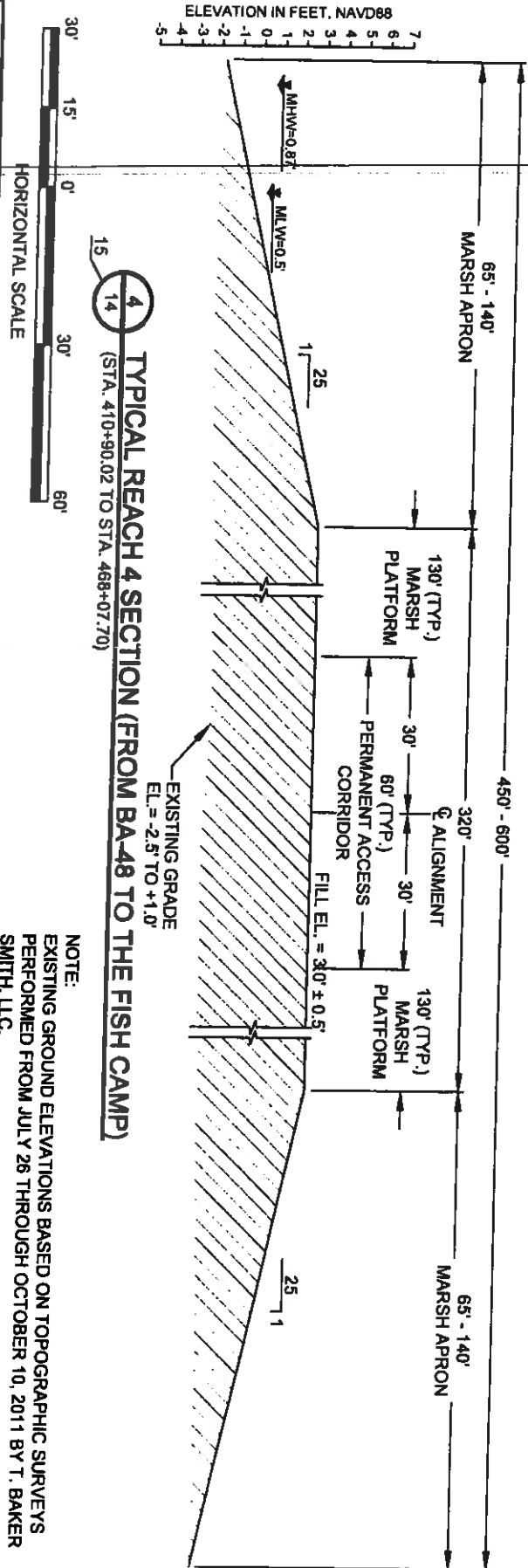
STATE PROJECT NUMBER: BA-43 (E9)
 FEDERAL PROJECT NUMBER: N/A

TYPICAL
 FILL SECTIONS
 (SHEET 1 OF 4)

DATE: DECEMBER 12, 2012
 SHEET 18 OF 41



3 TYPICAL REACH 3 SECTION (ACROSS PROPOSED BA-48 PROJECT AREA)
 (STA. 392+97.96 TO STA. 410+90.02)



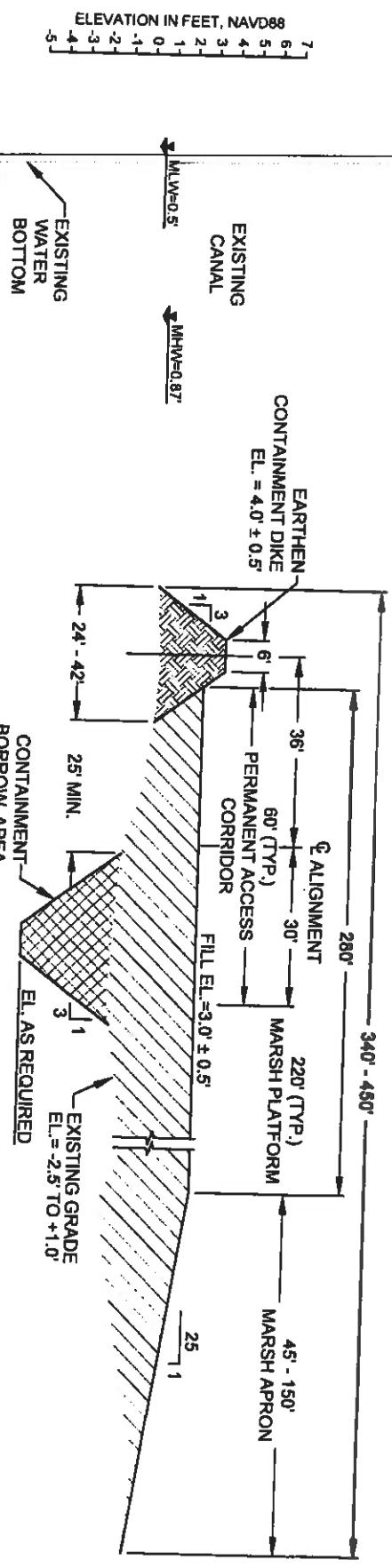
4 TYPICAL REACH 4 SECTION (FROM BA-48 TO THE FISH CAMP)
 (STA. 410+90.02 TO STA. 468+07.70)

NOTE:
 EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS
 PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER
 SMITH, LLC.

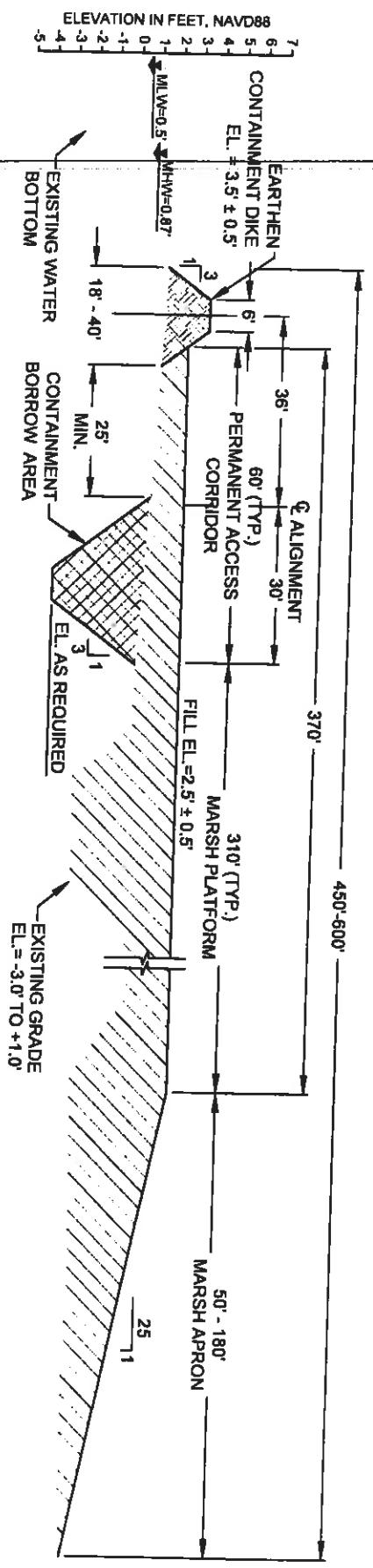
HORIZONTAL SCALE



BY	DESCRIPTION	DATE	DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.		STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 5	12/12/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-987-7793		450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		FEDERAL PROJECT NUMBER: N/A		SHEET 19 OF 41	
SA	REVISION 4	08/24/12					MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		TYPICAL FILL SECTIONS (SHEET 2 OF 4)	
SA	REVISION 3	03/09/12					COASTAL PROTECTION & RESTORATION AUTHORITY			
SA	REVISION 2	08/24/12								
SA	REVISION 1	08/24/12								
DRAWN BY: VC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELIER, P.E.		STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	




5 TYPICAL REACH 5 SECTION (FROM THE FISH CAMP TO STA. 511+83.65)
 (STA. 468+07.70 TO STA. 511+83.65)

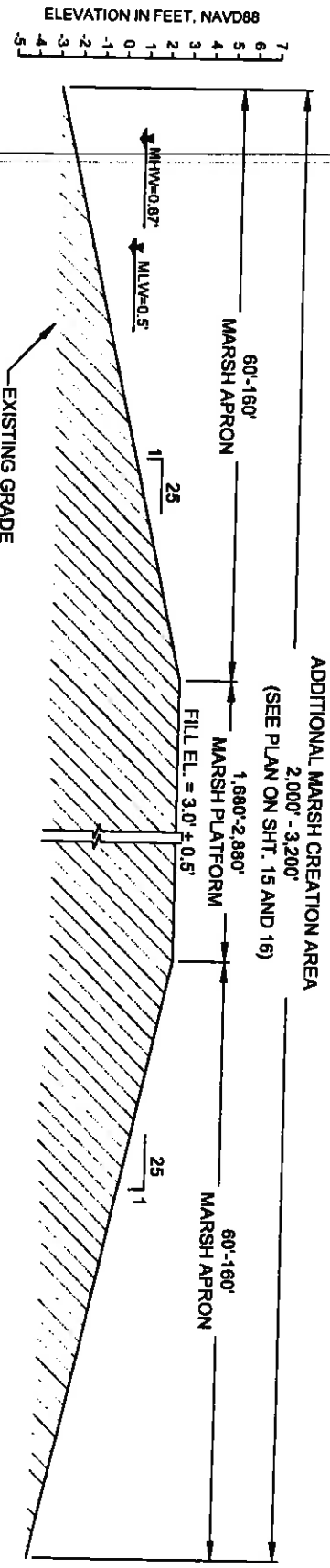


6 TYPICAL REACH 6 SECTION (FROM STA. 511+83.65 TO BARATARIA WATERWAY)
 (STA. 511+83.65 TO STA. 570+22.0)

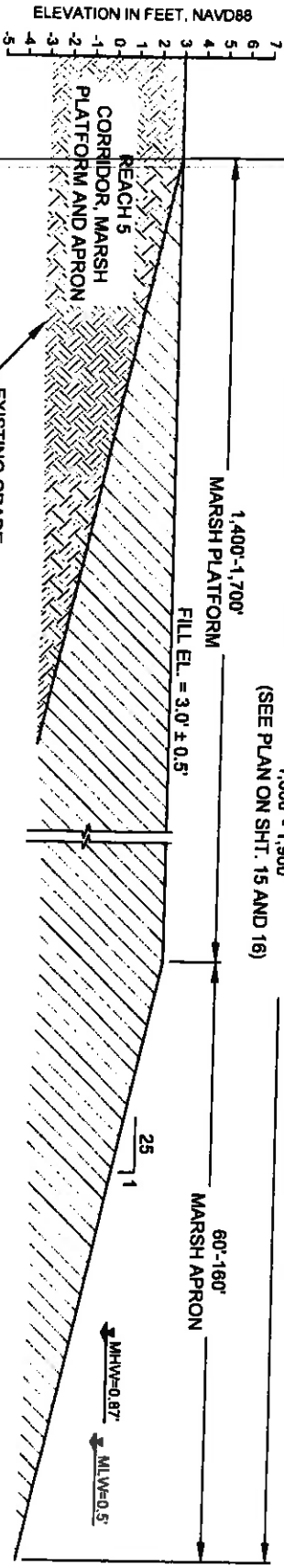


NOTE:
 EXISTING GROUND ELEVATIONS BASED ON
 TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26
 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

BY	DESCRIPTION	DATE	MAURY CHATELLIER & ASSOCIATES		COASTAL PROTECTION & RESTORATION AUTHORITY		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		TYPICAL FILL SECTIONS (SHEET 3 OF 4)	
SA	REVISION 5	12/19/12	 ONE AMERICAN PLACE 3011 MAIN STREET, SUITE 800 BATON ROUGE, LA 70805 225-927-7793		450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/27/12					FEDERAL PROJECT NUMBER: N/A		SHEET 20 OF 41	
SA	REVISION 3	03/09/12								
SA	REVISION 1	03/09/12								
DRAWN BY YC			DESIGNED BY SA		APPROVED BY MAURY CHATELLIER, P.E.					




7
15
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA
(SOUTH TO NORTH)



8
15
TYPICAL FILL SECTION ACROSS ADDITIONAL MARSH CREATION AREA
(WEST TO EAST)

NOTE:
EXISTING GROUND ELEVATIONS BASED ON
TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26
THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

BY	DESCRIPTION	DATE	 OMC AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7733		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		TYPICAL FILL SECTIONS (SHEET 4 OF 4)	
SA	REVISION 5	12/12/12					STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/24/12					FEDERAL PROJECT NUMBER: N/A		SHEET 21 OF 41	
SA	REVISION 3	03/05/12								
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURİY CHATELLIER, P.E.					

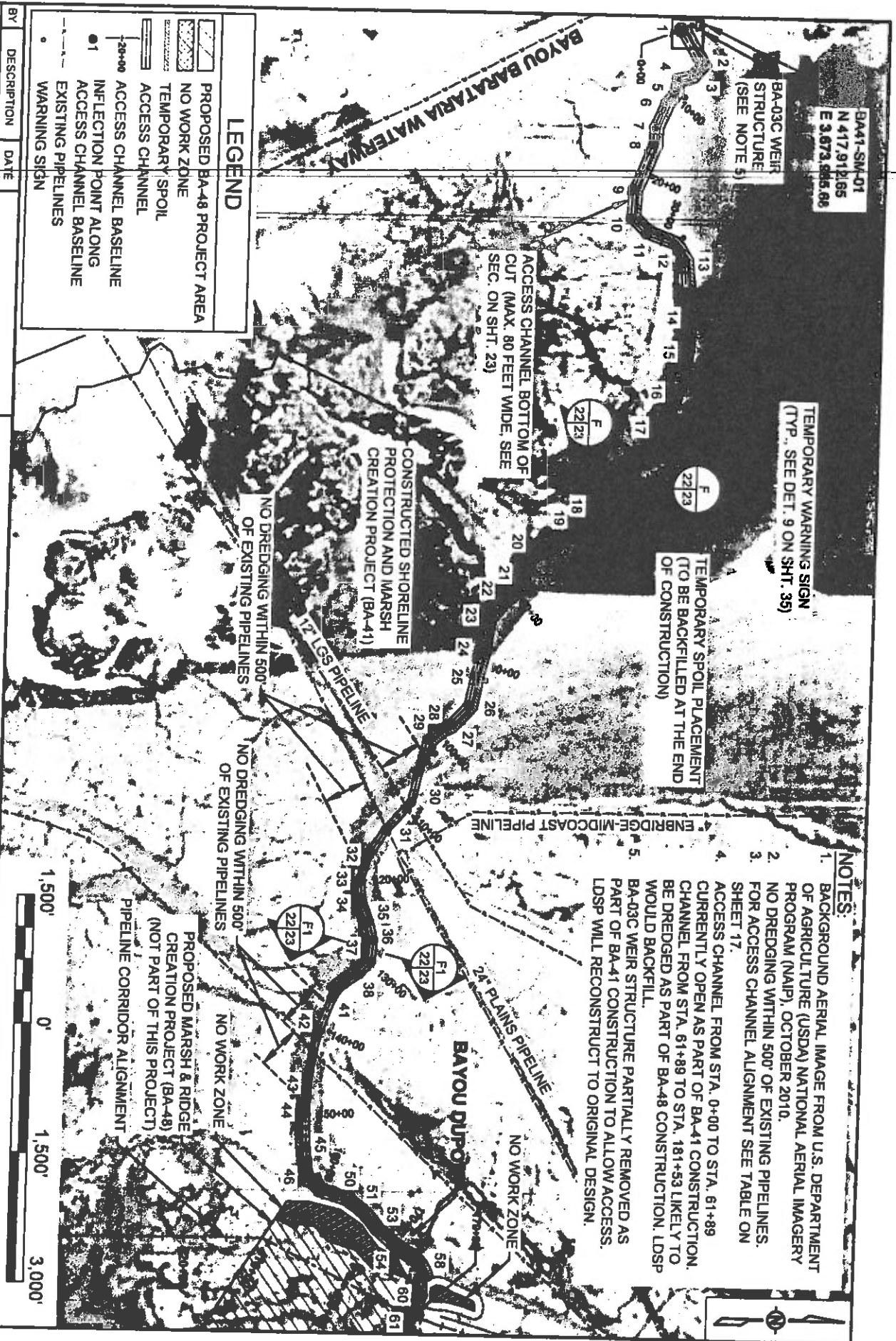
BA41-SM-01
 N 417.912.65
 E 3.673.685.88

BA-03C WEIR
 STRUCTURE
 (SEE NOTE 5)

TEMPORARY WARNING SIGN
 (TYP., SEE DET. 9 ON SHT. 35)

TEMPORARY SPOIL PLACEMENT
 (TO BE BACKFILLED AT THE END
 OF CONSTRUCTION)

- NOTES:**
1. BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.
 2. NO DREDGING WITHIN 500' OF EXISTING PIPELINES.
 3. FOR ACCESS CHANNEL ALIGNMENT SEE TABLE ON SHEET 17.
 4. ACCESS CHANNEL FROM STA. 0+00 TO STA. 61+89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61+89 TO STA. 181+53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.
 5. BA-03C WEIR STRUCTURE PARTIALLY REMOVED AS PART OF BA-41 CONSTRUCTION TO ALLOW ACCESS. LDSP WILL RECONSTRUCT TO ORIGINAL DESIGN.



LEGEND

- PROPOSED BA-48 PROJECT AREA
- NO WORK ZONE
- TEMPORARY SPOIL
- ACCESS CHANNEL
- ACCESS CHANNEL BASELINE
- INFLECTION POINT ALONG ACCESS CHANNEL BASELINE
- EXISTING PIPELINES
- WARNING SIGN

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



ONE AMERICAN PLACE
 301 MAIN STREET, SUITE 800
 BATON ROUGE, LA 70825
 225-421-7175

**COASTAL PROTECTION & RESTORATION
 AUTHORITY**

450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

**MISSISSIPPI RIVER
 LONG DISTANCE SEDIMENT PIPELINE**

**ACCESS CHANNEL
 LAYOUT**

STATE PROJECT NUMBER: BA-43 (EB)

DATE: DECEMBER 12, 2012

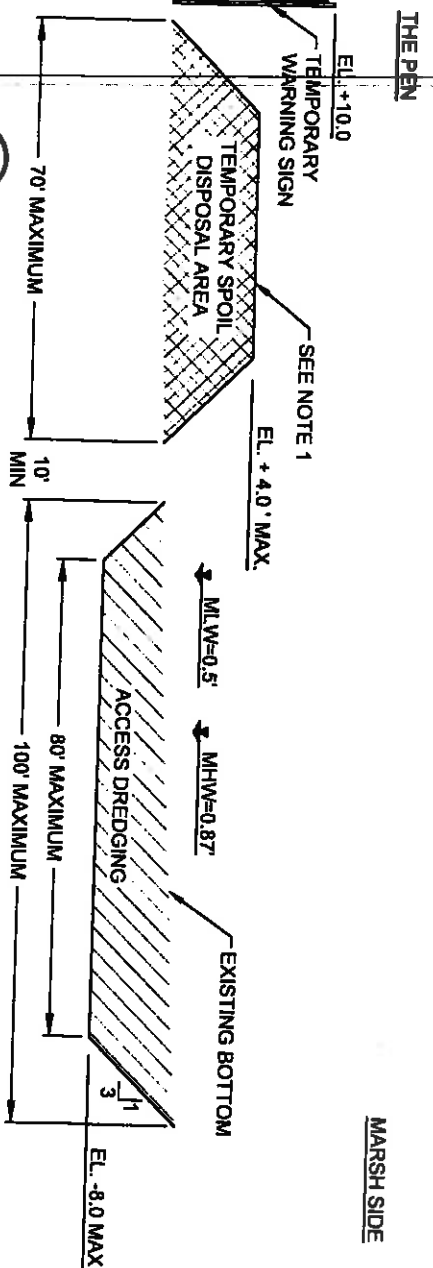
FEDERAL PROJECT NUMBER: N/A

SHEET 22 OF 41

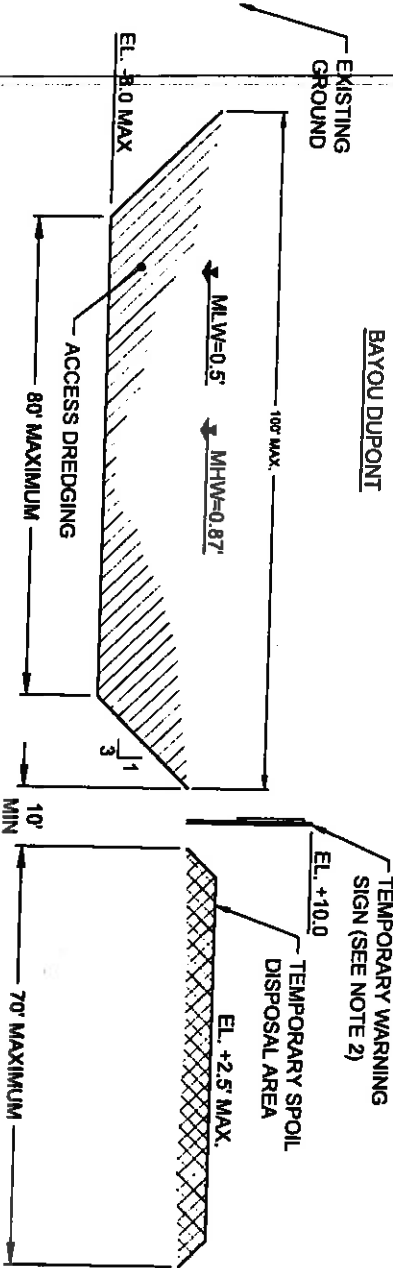
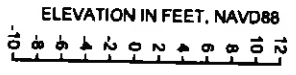
DESIGNED BY: SA

APPROVED BY: MAURY CHATELIER, P.E.

DRAWN BY: YC



F TYPICAL ACCESS CHANNEL SECTION @ THE PEN



F1 TYPICAL ACCESS CHANNEL SECTION @ BAYOU DUPONT

- NOTES:**
1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND PULLED BACK INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION.
 2. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 500 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.
 3. ACCESS CHANNEL FROM STA. 0+00 TO STA. 61+89 CURRENTLY OPEN AS PART OF BA-41 CONSTRUCTION. CHANNEL FROM STA. 61+89 TO STA. 181+53 LIKELY TO BE DREDGED AS PART OF BA-48 CONSTRUCTION. LDSP WOULD BACKFILL.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DESIGNED BY: SA
APPROVED BY: MAURY CHATELIER, P.E.

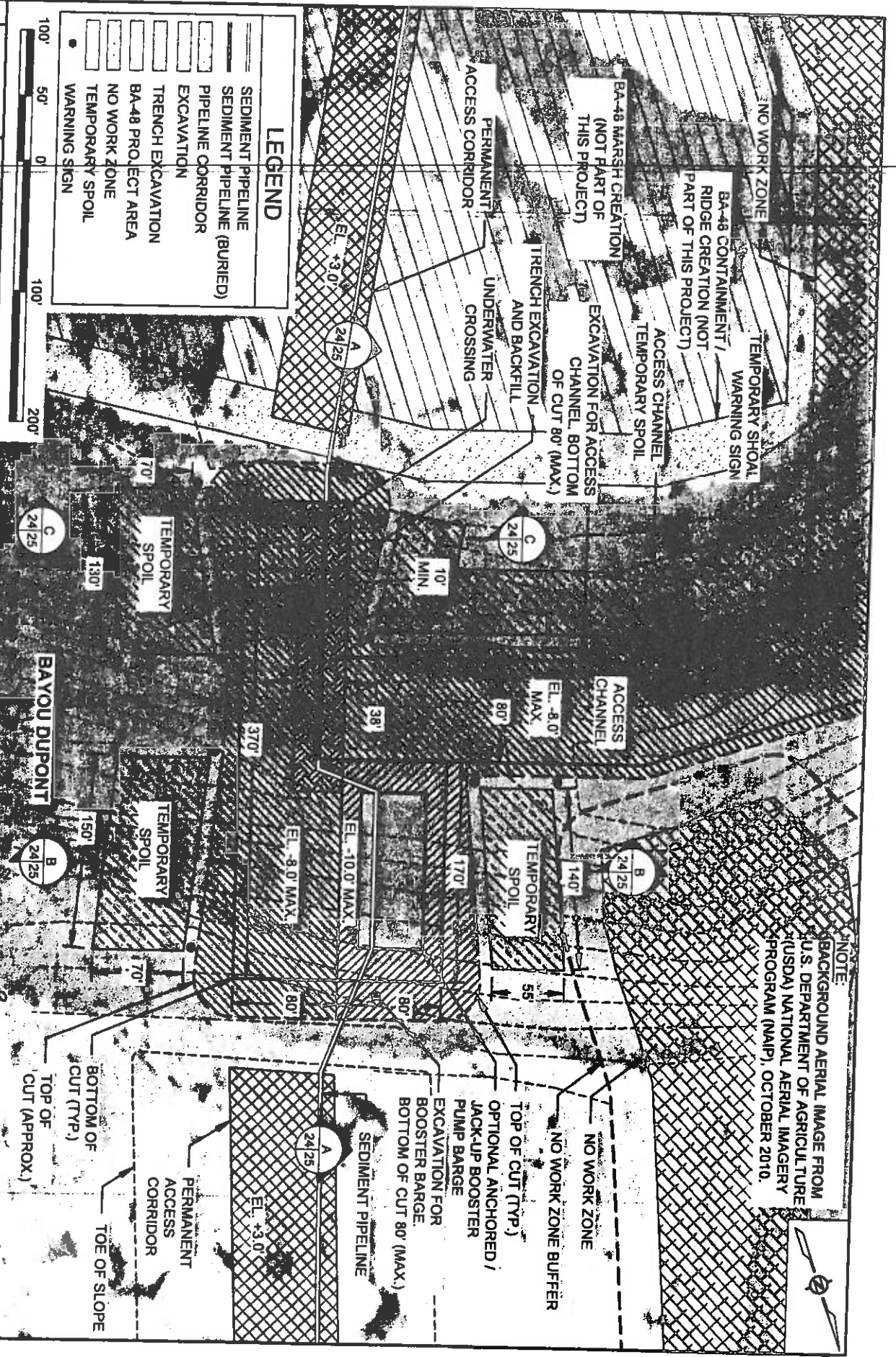
MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

TYPICAL
ACCESS CHANNEL
SECTIONS

STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012
SHEET 23 OF 41

NOTE: BACKGROUND AERIAL IMAGE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.



LEGEND

	SEDIMENT PIPELINE
	SEDIMENT PIPELINE (BURIED)
	PIPELINE CORRIDOR
	EXCAVATION
	TRENCH EXCAVATION
	BA-48 PRO. ECT AREA
	NO WORK ZONE
	TEMPORARY SPOIL
	WARNING SIGN

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/04/12

DRAWN BY: VC

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

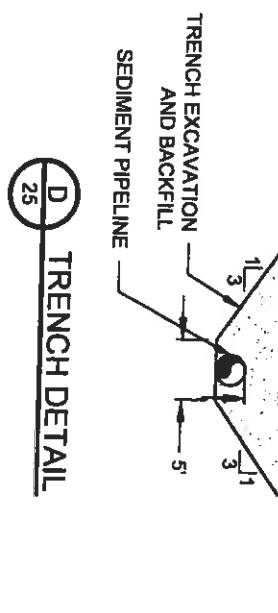
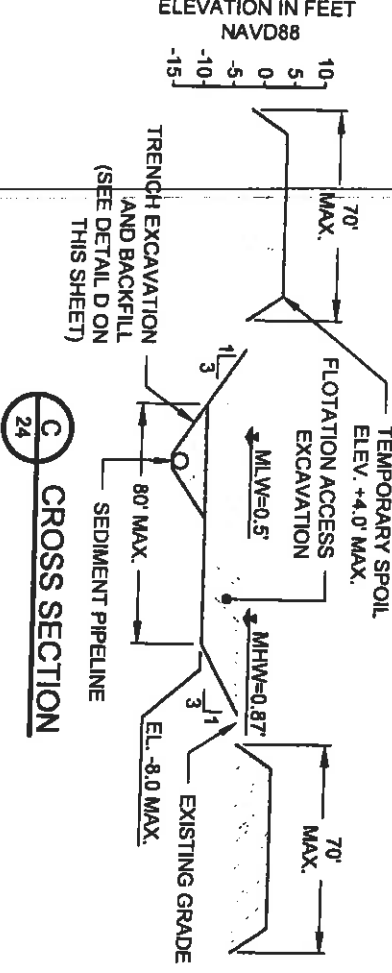
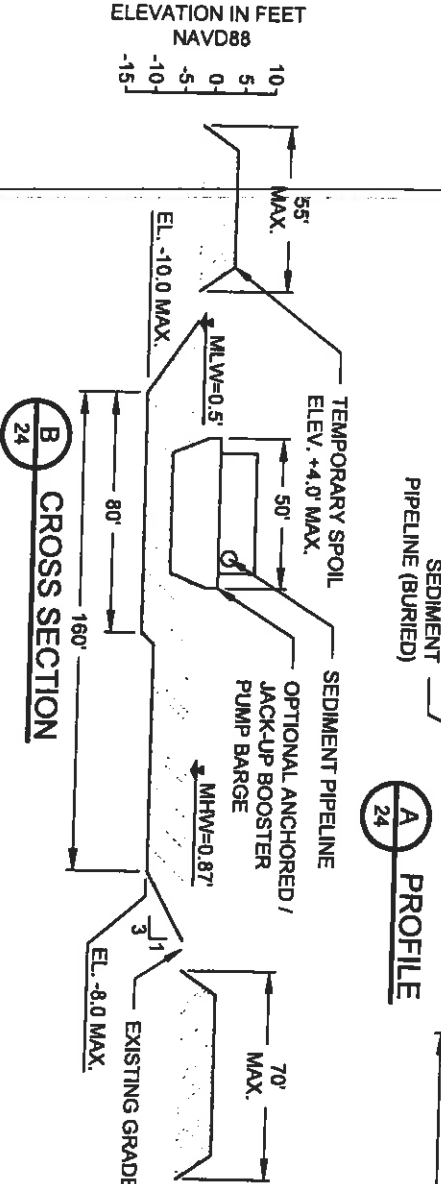
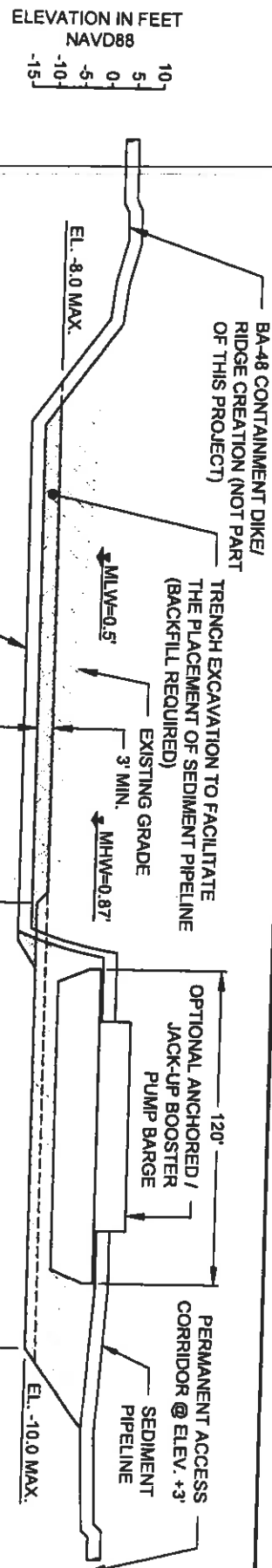
DESIGNED BY: SA


MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

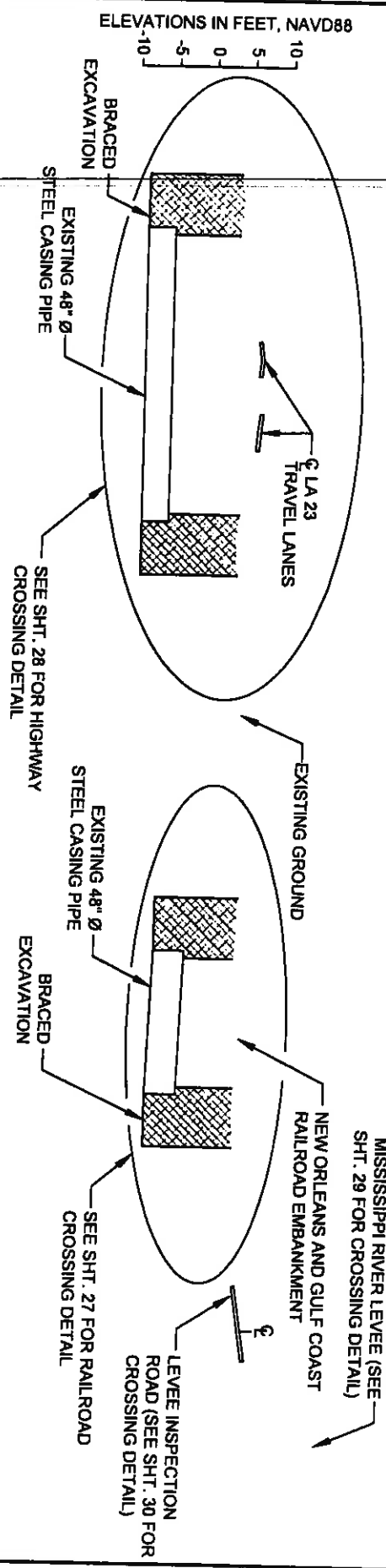
STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

BAYOU DUPONT CROSSING DETAIL

DATE: DECEMBER 12, 2012
SHEET 24 OF 41




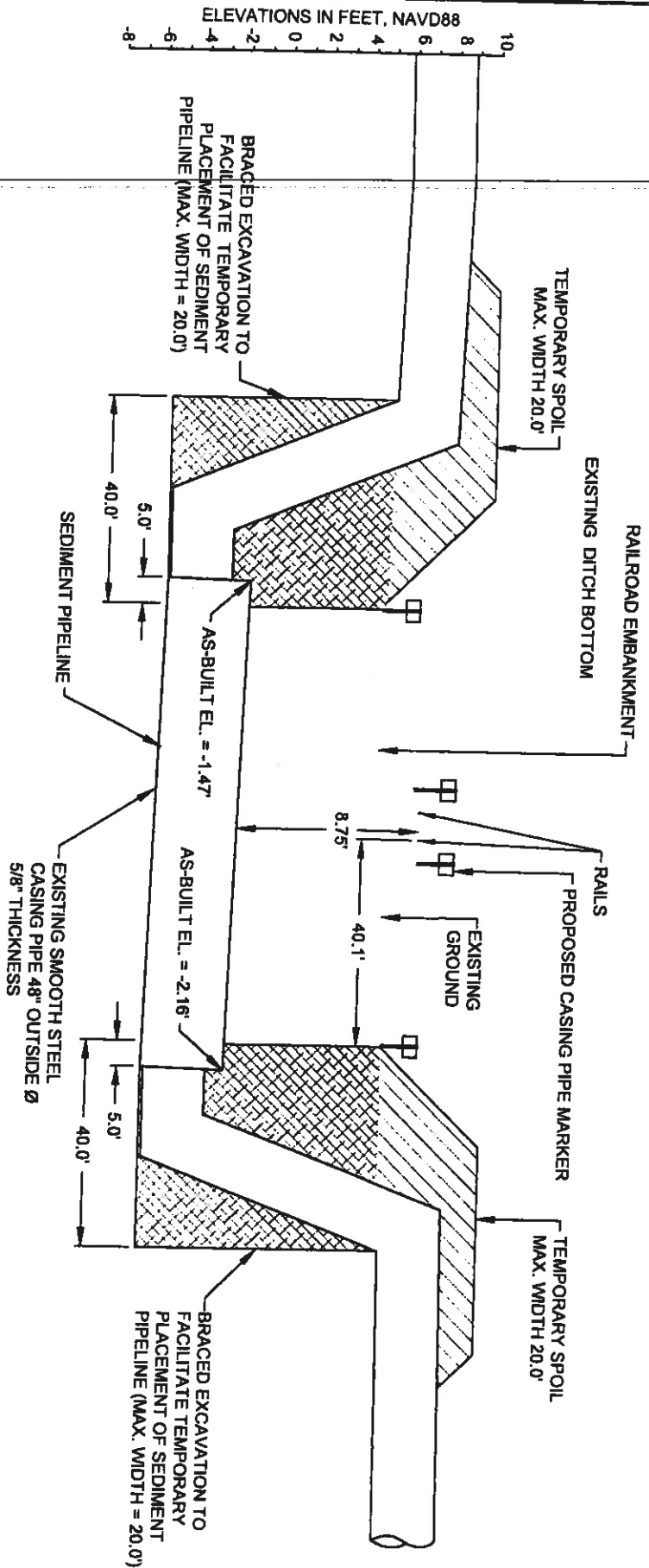
BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (E8)	DATE: DECEMBER 12, 2012				
SA	REVISION 5	12/12/12	 <p>ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70805 225-927-7183</p>	<p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE</p>	<p>BAYOU DUPONT BOOSTER PUMP SITE TYPICAL DETAILS</p>				
SA	REVISION 4	08/24/12								
SA	REVISION 3	03/01/12								
DRAWN BY: YC									FEDERAL PROJECT NUMBER: N/A	SHEET 25 OF 41



G-G DREDGE PIPELINE CORRIDOR SECTION



BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-827-7783		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	DREDGE PIPELINE CORRIDOR SECTION
SA	REVISION 5	12/1/12					STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
SA	REVISION 4	08/24/12					FEDERAL PROJECT NUMBER: N/A	SHEET 26 OF 41
SA	REVISION 3	03/08/12						
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLER, P.E.			



ELEVATIONS IN FEET, NAVD88



HORIZONTAL SCALE

1 RAILROAD CROSSING DETAIL

NOTES:

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
	TEMPORARY SPOIL
	BRACED EXCAVATION
	EXISTING GROUND

BY	DESCRIPTION	DATE
SA	REVISION 5	12/19/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-927-7183

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

RAILROAD
CROSSING DETAIL

DESIGNED BY: SA

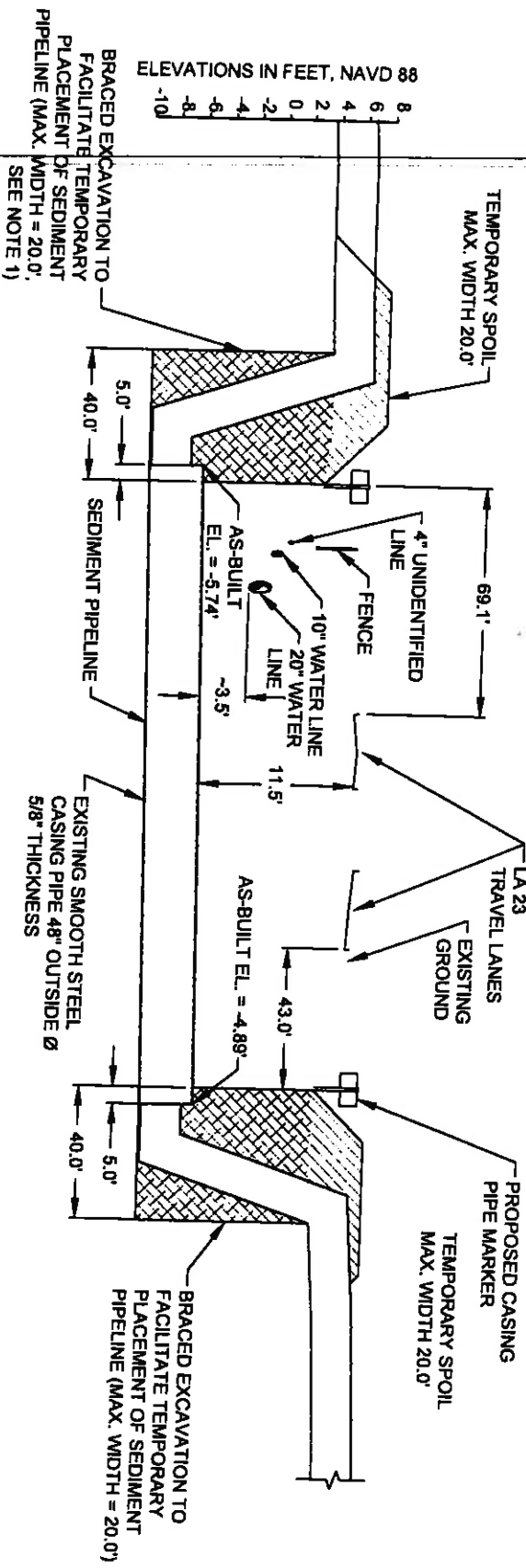
APPROVED BY: MAURY CHATELLER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)

FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012

SHEET 27 OF 41



2
16
HIGHWAY CROSSING DETAIL

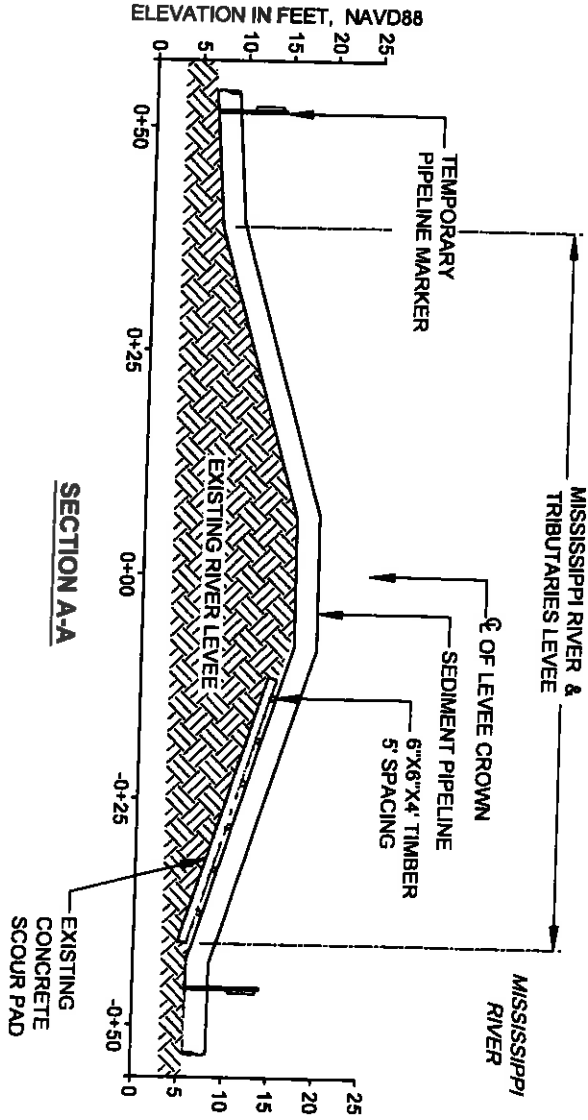
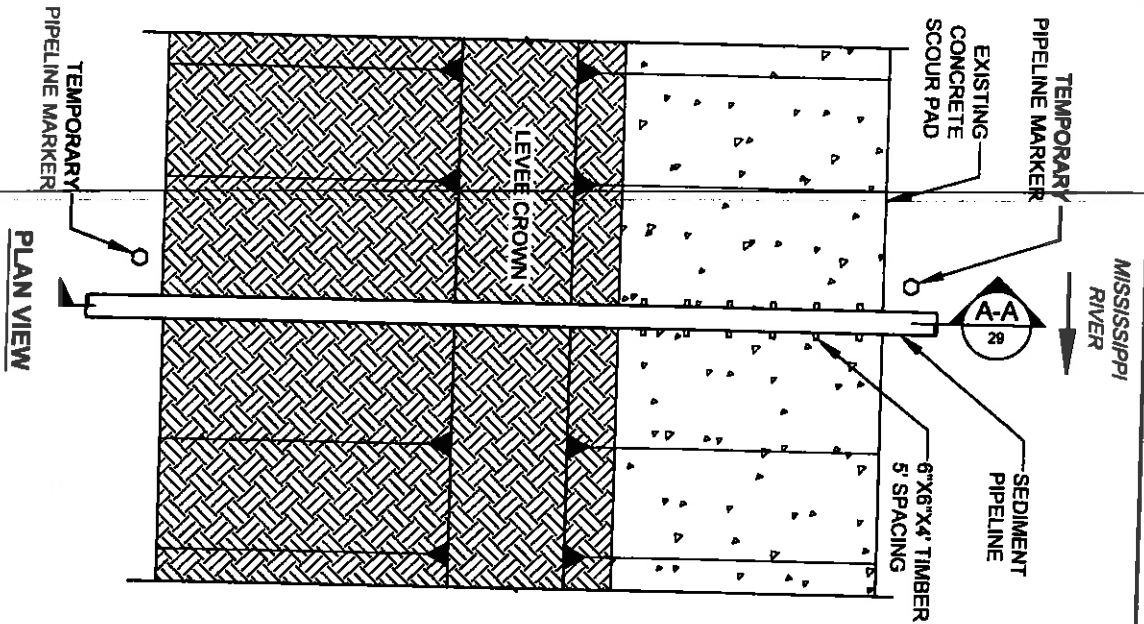
NOTES:

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
	TEMPORARY SPOIL
	BRACED EXCAVATION
	EXISTING GROUND




BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		HIGHWAY CROSSING DETAIL	
SA	REVISION 5	12/12/12					STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/24/12					FEDERAL PROJECT NUMBER: N/A		SHEET 28 OF 41	
SA	REVISION 3	03/09/12								
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.					

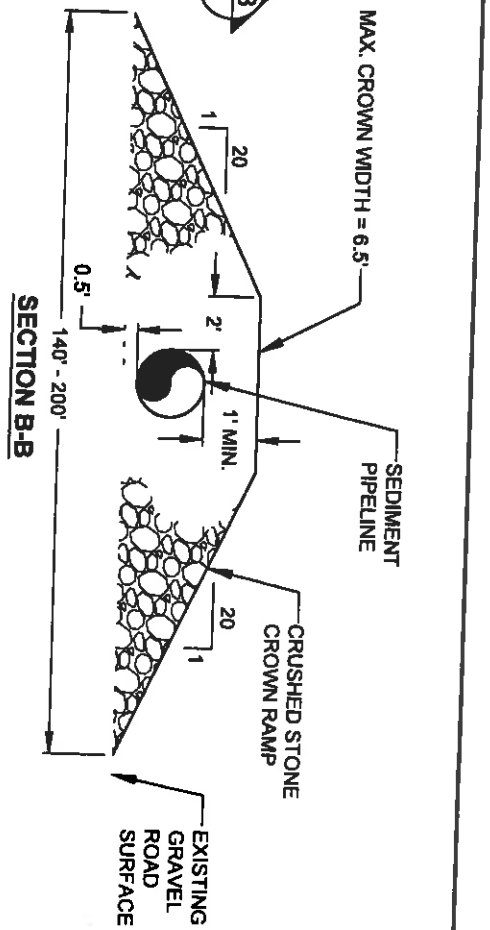
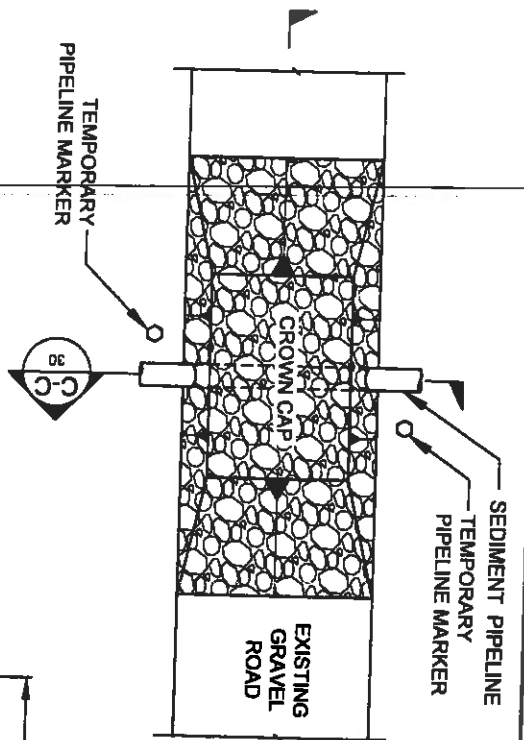


3 MISSISSIPPI RIVER LEVEE CROSSING DETAIL
 SCALE: 1"=20'

- NOTES:
- TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.
 - EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.

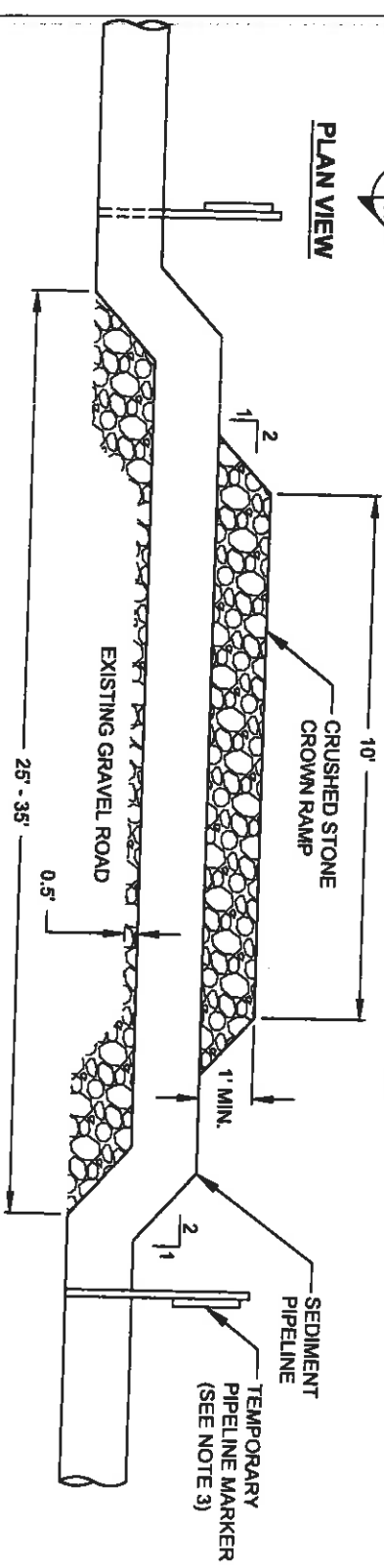


BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
SA	REVISION 5	12/12/12	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-371-7783	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	MISSISSIPPI RIVER LEVEE CROSSING DETAIL
SA	REVISION 4	08/24/12				
SA	REVISION 3	03/09/12				
DRAWN BY: VC			FEDERAL PROJECT NUMBER: N/A SHEET 28 OF 41			




4 MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL
 16 NOT TO SCALE

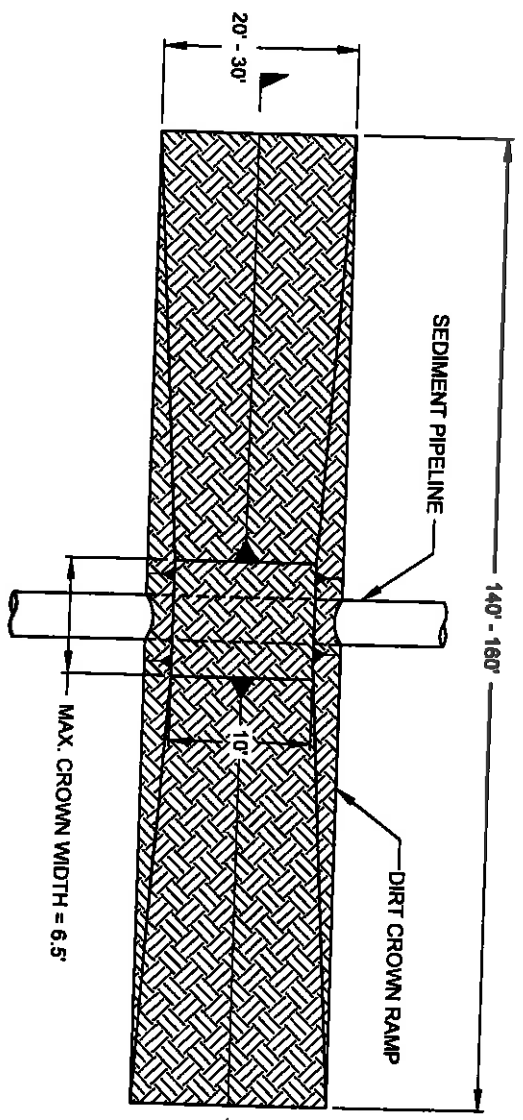
SECTION C-C



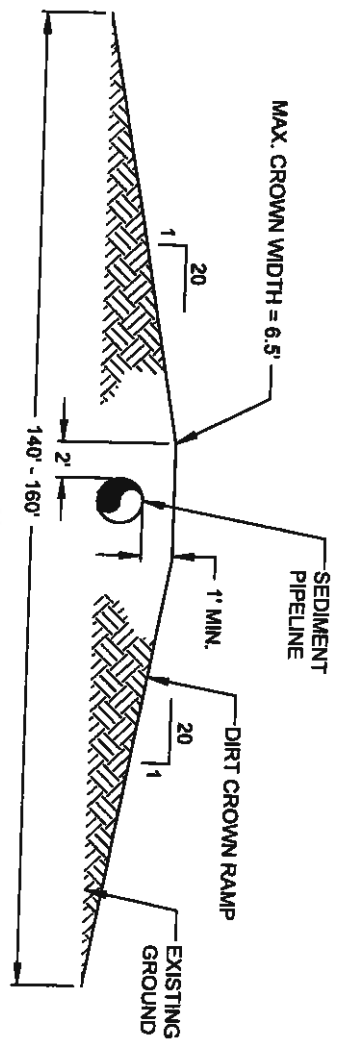
- NOTES:
1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
 2. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).
 3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR SEDIMENT PIPELINE.

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/08/12

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-427-1793	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL
DESIGNED BY: SA	APPROVED BY: MAURY CHATELLER, P. E.	STATE PROJECT NUMBER: BA-43 (EB)
DRAWN BY: YC	FEDERAL PROJECT NUMBER: N/A	DATE: DECEMBER 12, 2012
		SHEET 30 OF 41




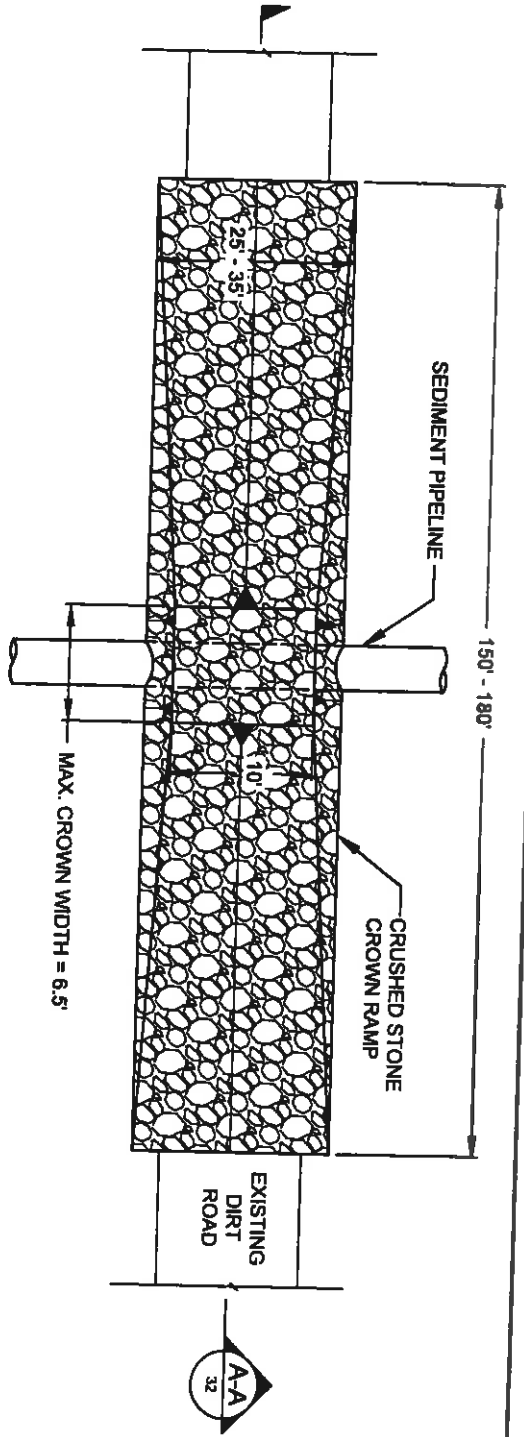
PLAN VIEW



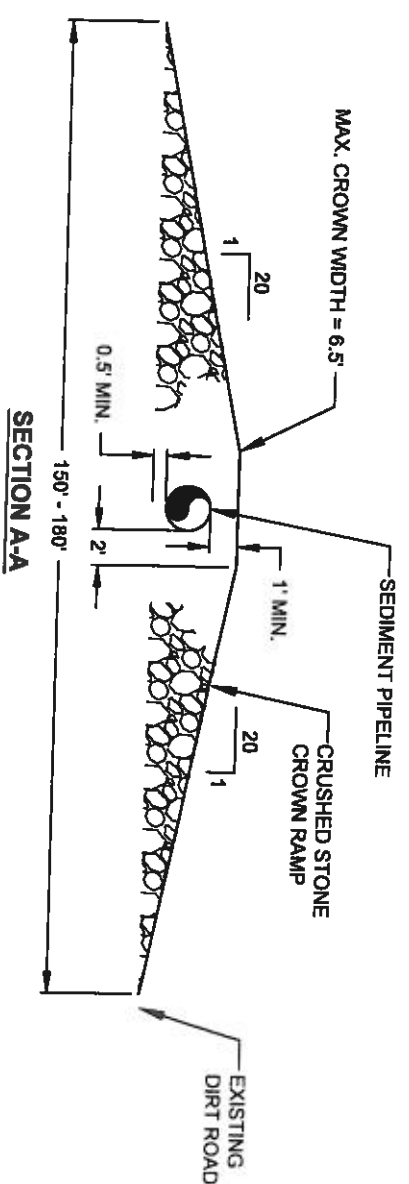
SECTION A-A

5 CATTLE CROSSING DETAIL
12 NOT TO SCALE

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-7793		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		CATTLE CROSSING DETAIL	
SA	REVISION 5	12/13/12					STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/24/12					FEDERAL PROJECT NUMBER: N/A		SHEET 31 OF 41	
SA	REVISION 3	03/09/12								
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLIER, P.E.					




PLAN VIEW

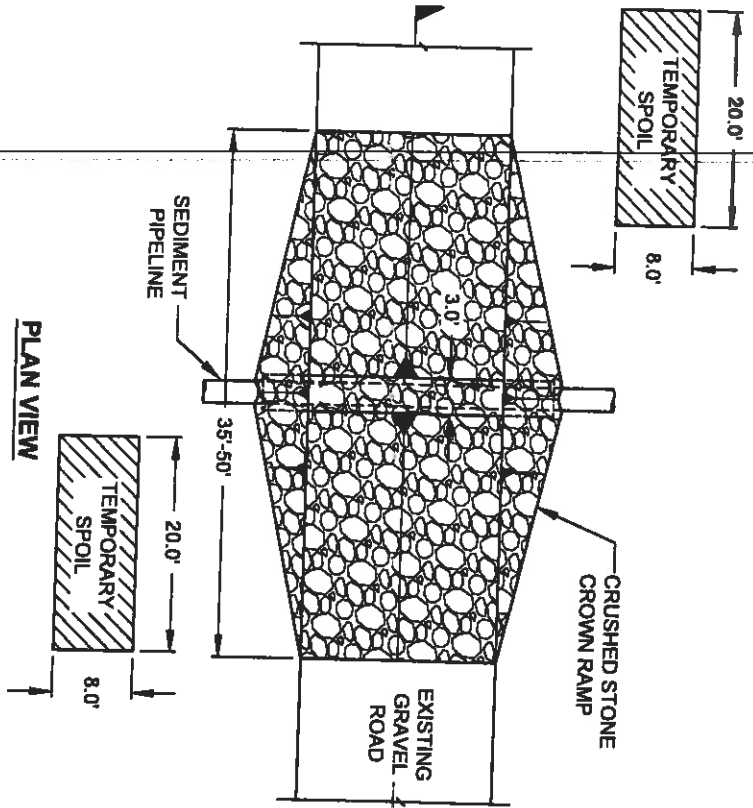


SECTION A-A
DIRT ROAD CROSSING DETAIL
 NOT TO SCALE

NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 6006 SPECIFICATION 1003.04 (a).

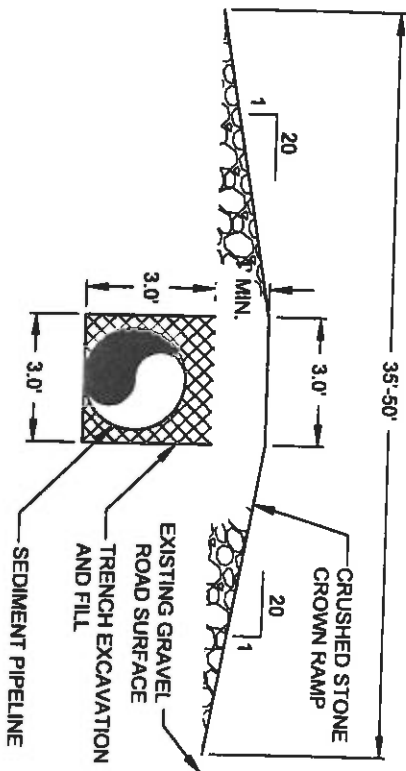
BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	06/24/12
SA	REVISION 3	03/09/12

 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70826 225-227-7783	COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	DESIGNED BY: SA APPROVED BY: MAURY CHATELLIER, P.E.
MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	STATE PROJECT NUMBER: BA-43 (EB) FEDERAL PROJECT NUMBER: N/A	DIRT ROAD CROSSING DETAIL. DATE: DECEMBER 12, 2012 SHEET 32 OF 41




PLAN VIEW

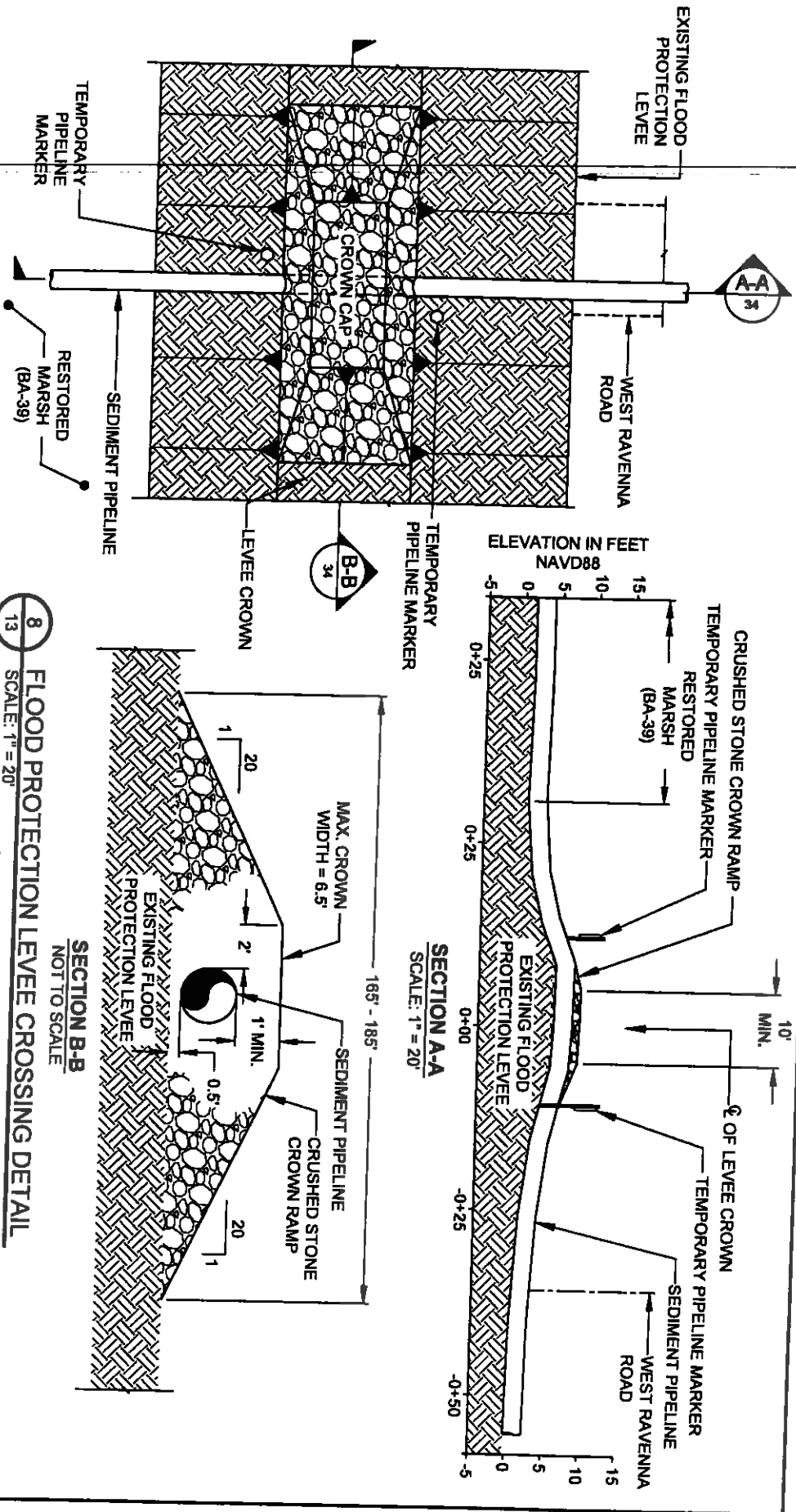
SECTION A-A



NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).

7
 13 **GRAVEL ROAD CROSSING DETAIL**
 NOT TO SCALE

BY	DESCRIPTION	DATE	 ONE AMERICAN PLACE 301 MAIN STREET, SUITE 800 BATON ROUGE, LA 70825 225-927-1793		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE		GRAVEL ROAD CROSSING DETAIL	
SA	REVISION 5	12/12/12					STATE PROJECT NUMBER: BA-43 (EB)		DATE: DECEMBER 12, 2012	
SA	REVISION 4	08/24/12					FEDERAL PROJECT NUMBER: N/A		SHEET 33 OF 41	
SA	REVISION 3	03/09/12								
DRAWN BY: YC			DESIGNED BY: SA		APPROVED BY: MAURY CHATELLER, P.E.					



8 FLOOD PROTECTION LEVEL CROSSING DETAIL
SCALE: 1" = 20'

- NOTES:
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSH STONE MATERIAL SHALL CONFORM TO DOTD 5006 SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR SEDIMENT PIPELINE.
 3. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/13/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

MAURY & REYNOLDS
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70805
225-927-1783

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

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

FLOOD PROTECTION LEVEL
CROSSING DETAIL

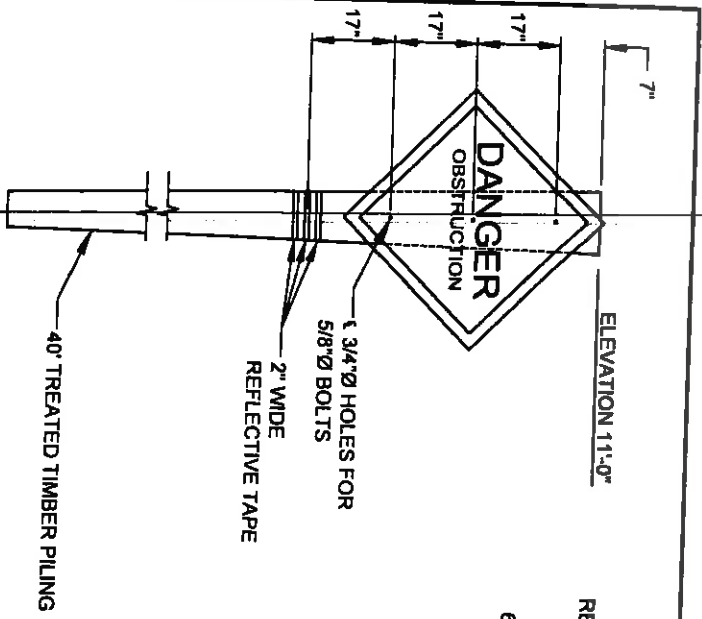
DRAWN BY YC

DESIGNED BY SA

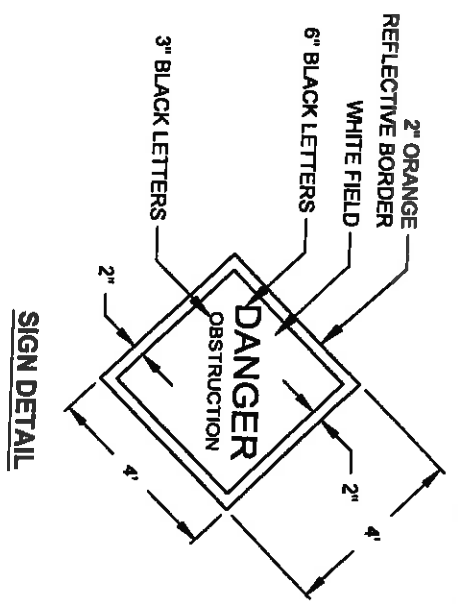
APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

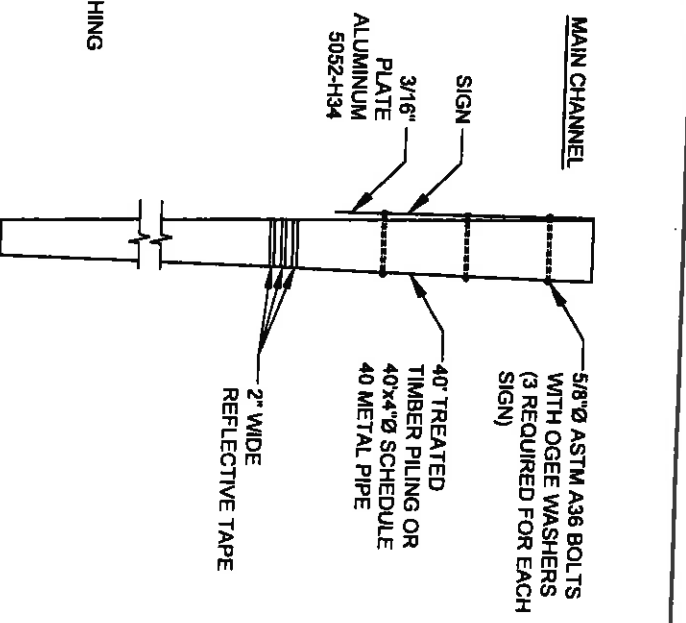
DATE: DECEMBER 12, 2012
SHEET 34 OF 41



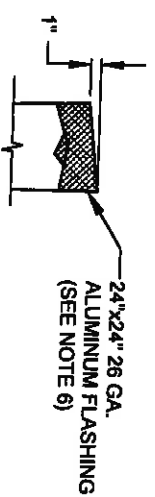
WARNING SIGN ELEVATION



SIGN DETAIL



WARNING SIGN SIDE DETAIL



TYPICAL TIMBER PILE CAP

9 TEMPORARY WARNING SIGN DETAILS
NOT TO SCALE

WARNING SIGN NOTES

- TWENTY-FIVE (25) TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 21 AND 23. THE 2" BORDER ON THE WARNING SIGN WILL BE REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE SIGN SHALL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS. IN ACCORDANCE WITH 33 CFR 330.4 (a)(1) WHICH CAN BE DOWNLOADED AT http://www.access.gpo.gov/nara/cfr/waisidx_0233cfr330_02.html
- HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
- MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOT SPECIFICATION 812.06.
- THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

BY	DESCRIPTION	DATE
SA	REVISION 5	12/7/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/04/12

DESIGNED BY: SA

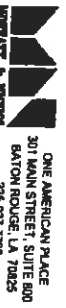
APPROVED BY: MAURY CHATELLER, P.E.

STATE PROJECT NUMBER: BA-43 (EB)

FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012

SHEET 35 OF 41



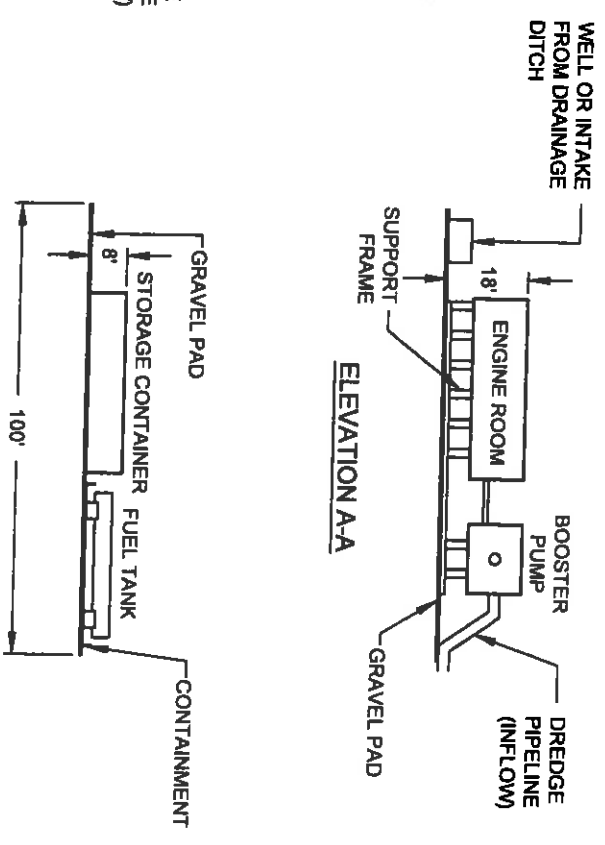
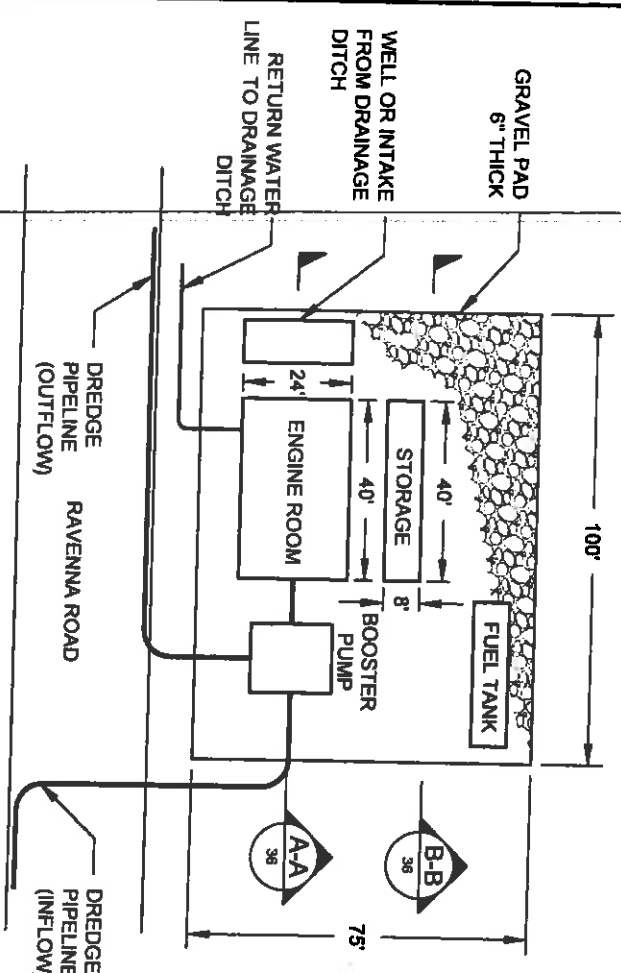
COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE


TEMPORARY SHOULDER
WARNING SIGN
DETAILS

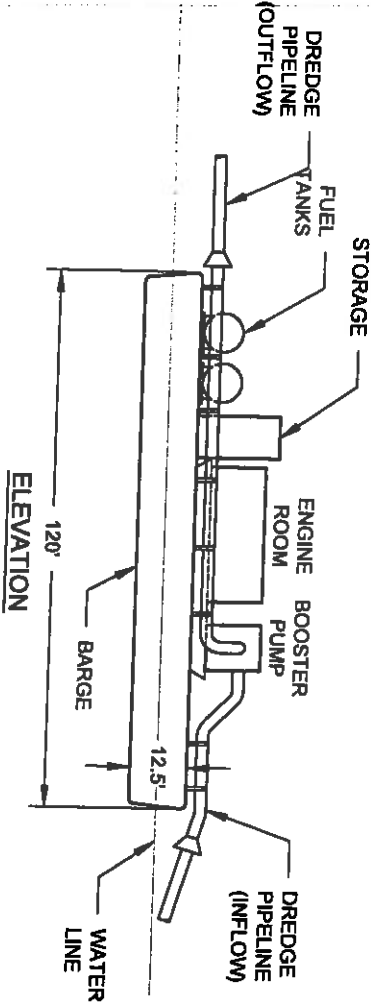
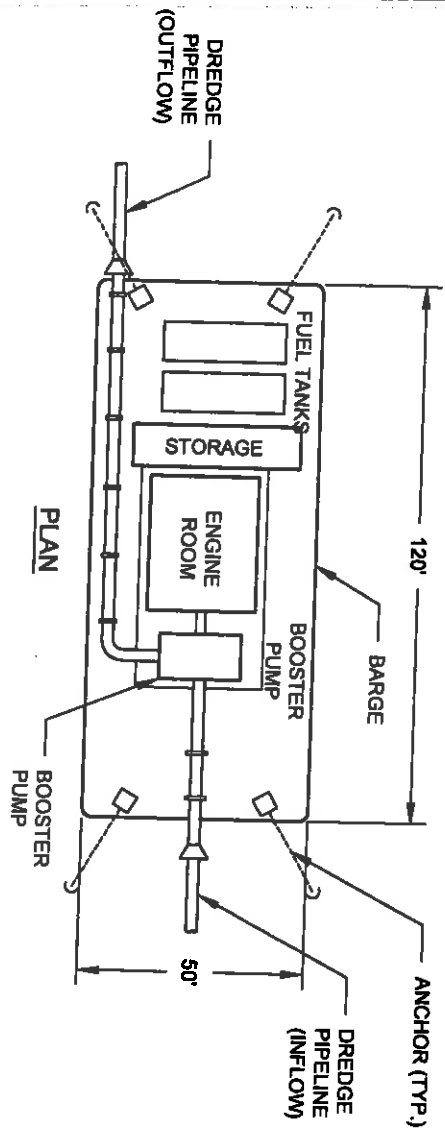
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-807-7100



10
LANDSIDE BOOSTER PUMP DETAILS
NOT TO SCALE

NOTE:
TYPICAL LANDSIDE BOOSTER SETUP. ACTUAL MAY VARY.

BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
SA	REVISION 5	12/12/12		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	FEDERAL PROJECT NUMBER: N/A	LANDSIDE BOOSTER PUMP PLAN AND ELEVATIONS
SA	REVISION 4	08/24/12				
SA	REVISION 3	03/09/12				
DRAWN BY: YC			SHEET 36 OF 41			



11
16 **FLOATING BOOSTER PUMP DETAILS**
NOT TO SCALE

NOTE:
TYPICAL FLOATING BOOSTER SETUP.
ACTUAL MAY VARY.

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/08/12

MAURY & RICHLI
ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70805
225-927-7193

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DESIGNED BY: SA
APPROVED BY: MAURY CHATELLIER, P.E.

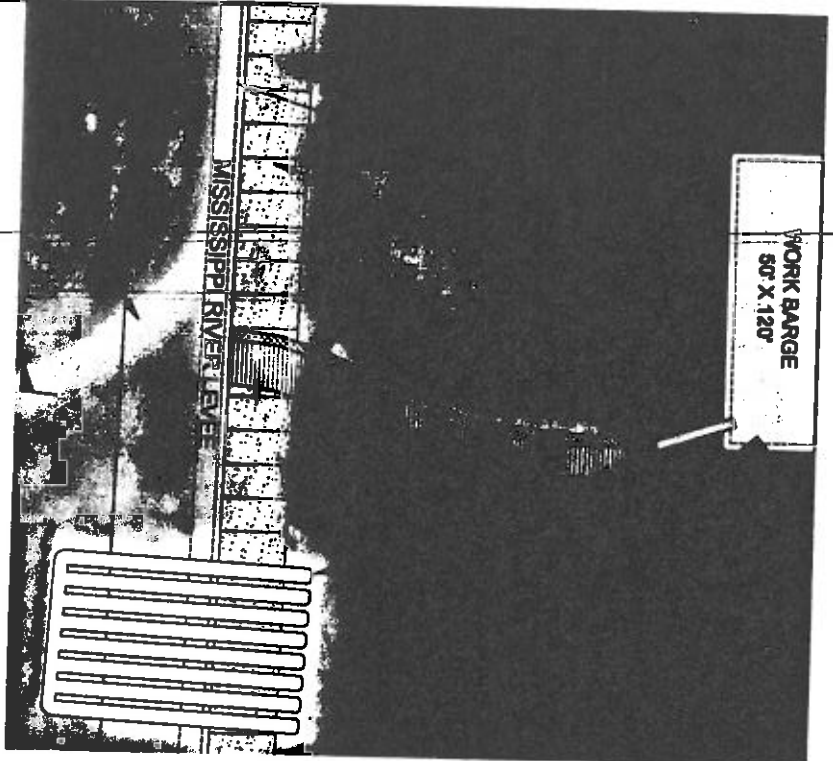
MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

FLOATING
BOOSTER PUMP
PLAN AND ELEVATIONS

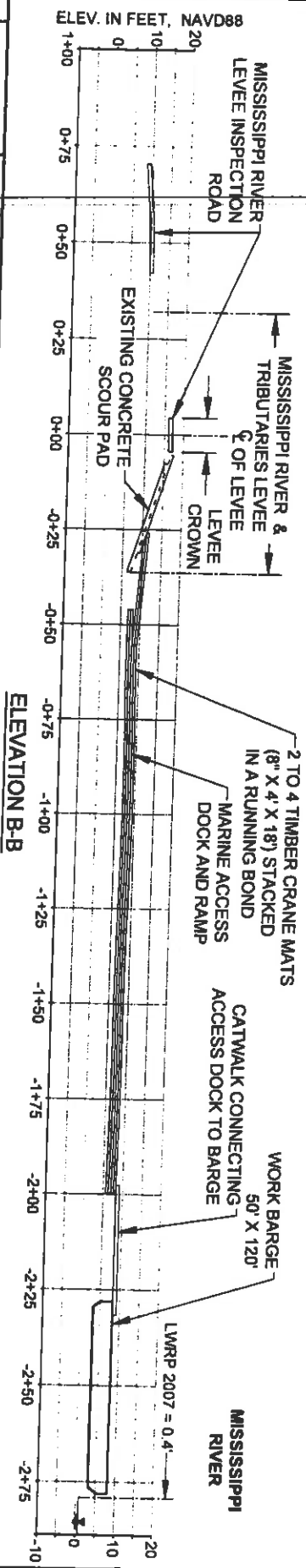
STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

DATE: DECEMBER 12, 2012
SHEET 37 OF 41

DRAWN BY: YC

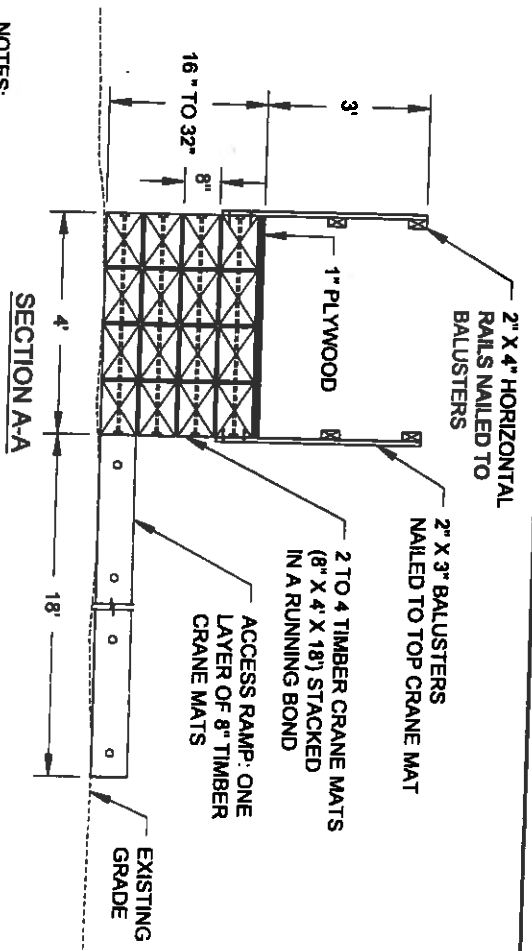


PLAN VIEW



12 TEMPORARY MARINE ACCESS DOCK DETAILS
 16 NOT TO SCALE

- NOTES:
1. EXISTING GRADES BASED ON JANUARY 2012 TBS SURVEY.
 2. TEMPORARY MARINE ACCESS DOCK WILL BE PLACED TO FACILITATE CONSTRUCTION PERSONNEL ACCESS TO THE MISSISSIPPI RIVER.
 3. ACCESS DOCK DETAILS BASED ON BA-39 PROJECT CONSTRUCTION. ACTUAL DETAILS MAY VARY BUT WILL HAVE TO BE INCLUDED IN THE CONTRACTOR'S WORK PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION AND PLACED WITHIN THE CONSTRUCTION LIMITS.
 4. ACCESS DOCK TO BE COMPLETELY REMOVED AFTER PROJECT IS COMPLETE.



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12

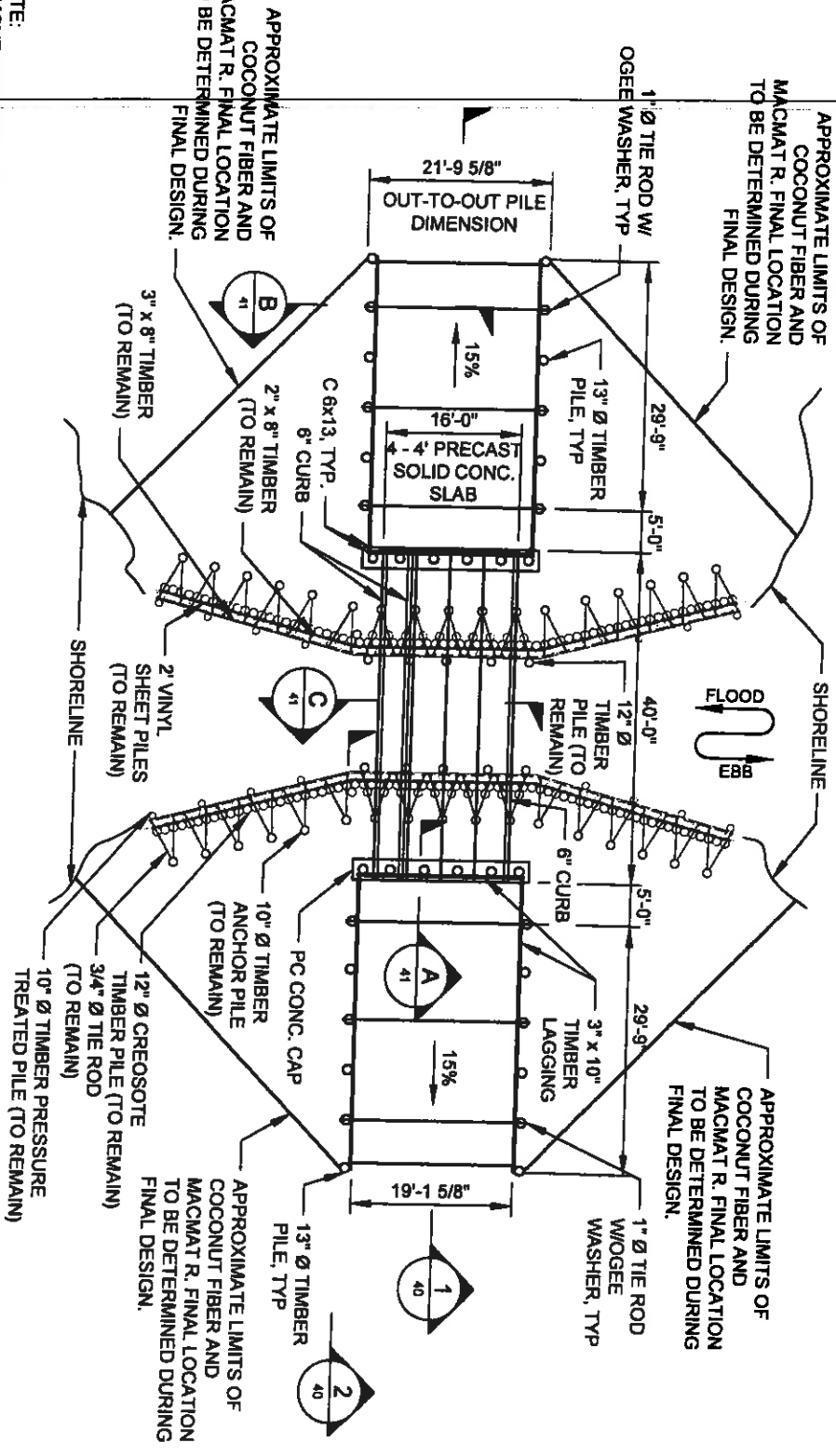
<p>DESIGNED BY: SA</p>	<p>COASTAL PROTECTION & RESTORATION AUTHORITY</p> <p>450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>APPROVED BY: MAURY CHATELLER, P.E.</p>
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STATE PROJECT NUMBER: BA-43 (E9)	DATE: DECEMBER 12, 2012
FEDERAL PROJECT NUMBER: N/A	SHEET 38 OF 41



13 PROPOSED BRIDGE PLAN
14 SCALE: 1" = 20'

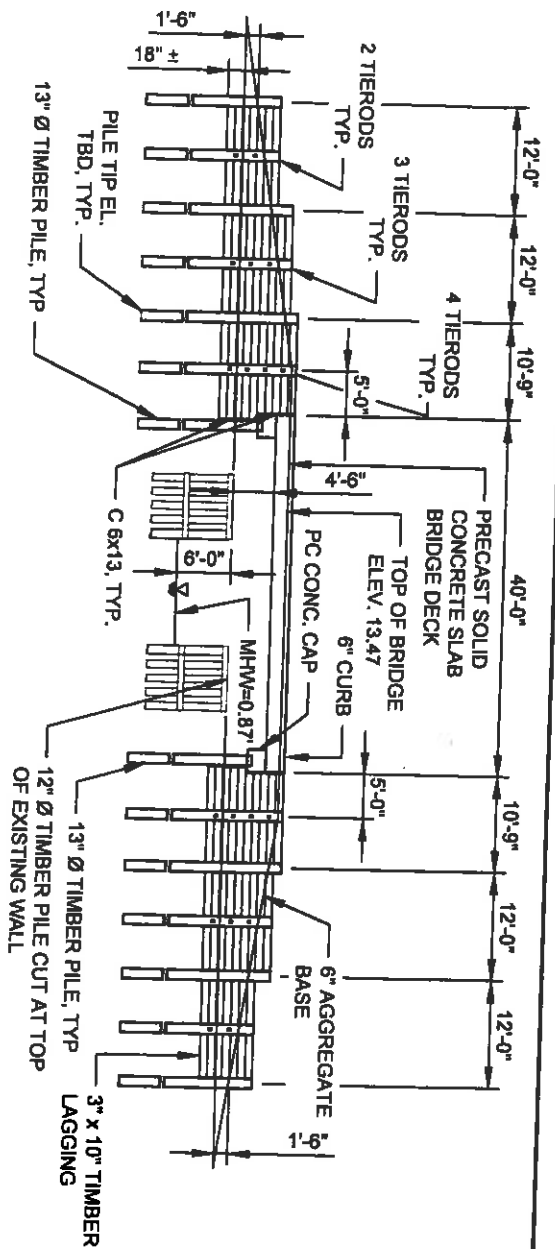
NOTE:
REMOVE EXISTING METAL GRATE BRIDGE,
PILES AND BEAMS ABOVE TOP OF BULKHEAD.



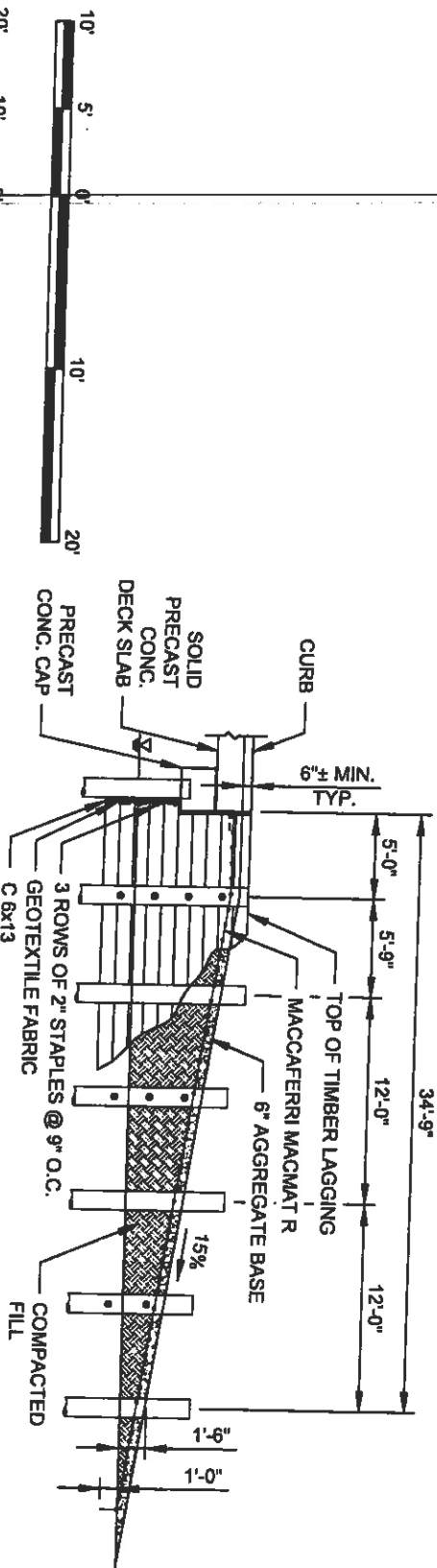
APPROXIMATE LIMITS OF
COCOANUT FIBER AND
MACMAT R. FINAL LOCATION
TO BE DETERMINED DURING
FINAL DESIGN.

APPROXIMATE LIMITS OF
COCOANUT FIBER AND
MACMAT R. FINAL LOCATION
TO BE DETERMINED DURING
FINAL DESIGN.

BY	DESCRIPTION	DATE	DESIGNED BY: SA	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-43 (EB)	DATE: DECEMBER 12, 2012
SA	REVISION 5	12/12/12		COASTAL PROTECTION & RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PIPELINE	NEW BRIDGE/PIPE CROSSING DETAILS (SHEET 1 OF 3)
SA	REVISION 4	08/24/12				
SA	REVISION 3	03/09/12				
SA	REVISION 2					
SA	REVISION 1					
DRAWN BY: VC					FEDERAL PROJECT NUMBER: N/A	SHEET 39 OF 41



1 PROPOSED BRIDGE ELEVATION
SCALE: 1" = 20'



2 SECTION OF APPROACH
SCALE: 1" = 10'



BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-927-7700

DESIGNED BY: SA

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

APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

NEW BRIDGE/ PIPE
CROSSING DETAILS
(SHEET 2 OF 3)

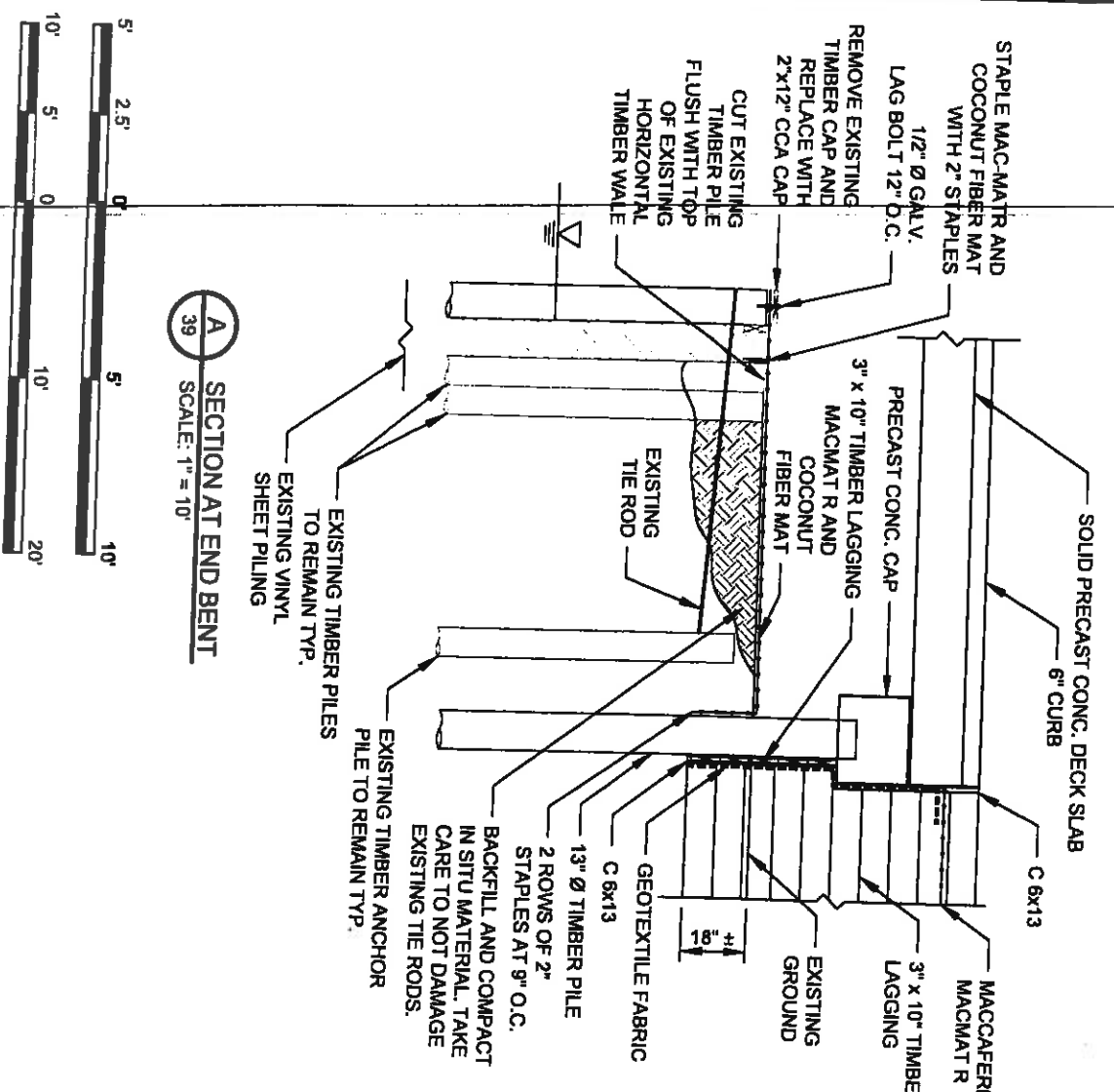
STATE PROJECT NUMBER: BA-43 (EB)

DATE: DECEMBER 12, 2012

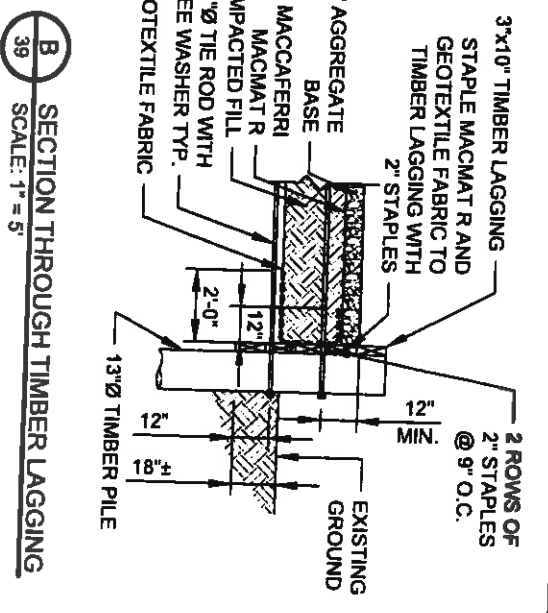
FEDERAL PROJECT NUMBER: N/A

SHEET 40 OF 41

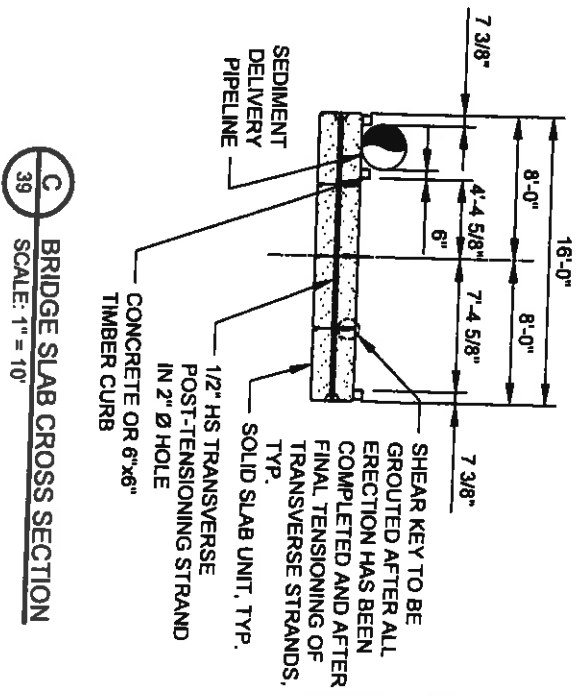
DRAWN BY: YC



A SECTION AT END BENT
SCALE: 1" = 10"



B SECTION THROUGH TIMBER LAGGING
SCALE: 1" = 5"



C BRIDGE SLAB CROSS SECTION
SCALE: 1" = 10"

BY	DESCRIPTION	DATE
SA	REVISION 5	12/12/12
SA	REVISION 4	08/24/12
SA	REVISION 3	03/09/12



ONE AMERICAN PLACE
301 MAIN STREET, SUITE 800
BATON ROUGE, LA 70825
225-927-1733

COASTAL PROTECTION & RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DESIGNED BY: SA
APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

STATE PROJECT NUMBER: BA-43 (EB)
FEDERAL PROJECT NUMBER: N/A

NEW BRIDGE/PIPE
CROSSING DETAILS
(SHEET 3 OF 3)

DATE: DECEMBER 12, 2012

SHEET 41 OF 41



**DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT**

P.O. BOX 44487
BATON ROUGE, LOUISIANA 70804-4487
(225)342-7591
1-800-267-4019

COASTAL USE PERMIT/CONSISTENCY DETERMINATION

C.U.P. No.: P20111445

C.O.E. No.: MVN- 2009- 1353- EFF

NAME: **COASTAL PROTECTION AND RESTORATION AUTHORITY**
c/o MOFFATT & NICHOL
301 MAIN ST., SUITE 800
BATON ROUGE, LA 70825
Attn: Paul Tschirky

LOCATION: **Jefferson, Plaquemines Parishes, LA**

Wills Point Anchorage South Borrow Area - MP 66.7; Alliance Anchorage Borrow Area - MP 64.3; Alliance South Borrow Area MP 60.7; POB/Reach 1 Pipeline Corridor: Lat. 29° 42' 03.65"N / Long. -89° 59' 01.44"W; POE/Reach 5 Pipeline Corridor: Lat. 29° 36' 09.48"N / Long. -90° 04' 16.78"W; Marsh Creation Area (Pt. 11): Lat. 29° 36' 41.70"N / Long. -90° 03' 47.24"W; Section 14, T15S-R25E & R24E; crosses LA Hwy. 23 north of Alliance Refinery, LA.

DESCRIPTION: Proposed Mississippi River Long Distance Sediment Pipeline, State Project BA-43 EB. Project includes the permitting of three potential borrow sources from the Mississippi River to a -90 elevation totaling +/- 270 acres (+/- 5,031,382 CY), a total of +/- 10.8 miles of a 60' - 80' wide permanent pipeline access corridor (+/- 6.6 miles previously permitted under C20060090/MVN-2008-0345-EFF), and the creation of +/- 256 acres and nourishment of 103 acres of emergent marsh and ridge habitat. Of the three borrow sources proposed with estimated losses in sediment due to transfer anticipated, a total of +/- 3,354,255 CY of sediment will be required to construct +/- 4.16 miles of the pipeline access corridor and to create/nourish the proposed emergent marsh and ridge habitat with a final elevation of +/- 3.0' +/- 0.5'. Also proposed is the dredging/backfilling of +/- 257,823 CY for the +/- 3.4 mile access channel from the south shore of the Pen to Bayou Dupont, installation of four booster pumps (4,451 CY access dredging), the construction of containment dikes (+/- 46,365 CY of native fill), and placement of +/- 2,400 CY of crushed stone/gravel and +/- 7,310 CY of topsoil for the various crossings proposed.

This permit supersedes the original permit which was issued September 16, 2012.

In accordance with the rules and regulations of the Louisiana Coastal Resources Program and Louisiana R.S. 49, Sections 214.21 to 214.41, the State and Local Coastal Resources Management Act of 1978, as amended, the permittee agrees to:

1. Carry out, perform, and/or operate the use in accordance with the permit conditions, plans and specifications approved by the Department of Natural Resources.
2. Comply with any permit conditions imposed by the Department of Natural Resources.
3. Adjust, alter or remove any structure or other physical evidence of the permitted use if, in the opinion of the Department of Natural Resources, it proves to be beyond the scope of the use as approved or is abandoned.
4. Provide, if required by the Department of Natural Resources, an acceptable surety bond in an appropriate amount to ensure adjustment, alteration, or removal should the Department of Natural Resources determine it necessary.
5. Hold and save the State of Louisiana, the local government, the department, and their officers and employees harmless from any damage to persons or property which might result from the use, including the work, activity, or structure permitted.
6. Certify that the use has been completed in an acceptable and satisfactory manner and in accordance with the plans and specifications approved by the Department of Natural Resources. The Department of Natural Resources may, when appropriate, require such certification to be given by a registered professional engineer.
7. All terms of the permit shall be subject to all applicable federal and state laws and regulations.
8. This permit, or a copy thereof, shall be available for inspection at the site of work at all times during operations.
9. The applicant will notify the Office of Coastal Management of the date on which initiation of the permitted activity described under the "Coastal Use Description" began. The applicant shall notify the Office of Coastal Management by mailing the enclosed green initiation card on the date of initiation of the coastal use.
10. Unless specified elsewhere in this permit, this permit authorizes the initiation of the coastal use described under "Coastal Use Description" for two (2) years from the date of the signature of the Secretary or his designee on the original permit which was September 16, 2012. If the coastal use is not initiated within this two (2) year period, then this permit will expire and the applicant will be required to submit a new application. Initiation of the coastal use, for the purposes of this permit, means the actual physical beginning of the use of activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the coastal use site, expenditure of funds, contracting out of work, or performing activities



which by themselves do not require a permit. In addition, the permittee must, in good faith, and with due diligence, reasonably progress toward completion of the project once the coastal use has been initiated.

11. The following special conditions must also be met in order for the use to meet the guidelines of the Coastal Resources Program:

- a. This permit does not convey any property rights, mineral rights, or exclusive privileges; nor does it authorize injury to property.
- b. Permittee shall, prior to commencement of the herein permitted activities, contact Rhonda Braud (phone: 225-342-4553, email: rhonda.braud@la.gov) to determine if a construction permit will be required from the local levee district.
- c. Permittee shall obtain a Water Quality Certification, should one be required, from the LA Department of Environmental Quality prior to initiation of any construction activities.
- d. All logs, stumps and other debris encountered during dredging activities shall be removed from the site during or immediately after the activity and disposed of in accordance with all applicable laws and regulations.
- e. No impacts to rare, threatened or endangered species or critical habitats are anticipated from the proposed project. No state or federal parks, wildlife refuges, wildlife management areas or scenic rivers are known at the specified site or within $\frac{1}{4}$ mile of the proposed project.

The Louisiana Natural Heritage Program (LNHP) has compiled data on rare, endangered, or otherwise significant plant and animal species, plant communities, and other natural features throughout the State of Louisiana. LNHP reports summarize the existing information known at the time of the request regarding the location in question. LNHP reports should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. If at any time LNHP tracked species are encountered within the project area, please contact our biologist at 225-765-2643.

- f. Submerged sediment/dredge pipeline must be marked/lighted in accordance with U. S. Coast Guard regulations.
- g. Permitted activities shall not interfere with navigation and project operations shall be coordinated with the USCG prior to initiation of activities permitted under this authorization.
- h. The requirement for compensatory mitigation for impacts to marsh habitat resulting from the referenced project will be determined after one full growing season (March 1 to November 1) following the completion of the permitted activities. This assessment shall include both primary impacts and secondary impacts which may result from the permitted activities.

If OCM determines that compensatory mitigation is required, permittee shall submit a compensatory mitigation plan for approval within 30 days of notification of the compensatory mitigation requirements by OCM. All necessary approvals shall be obtained for the compensatory mitigation plan and the plan shall be implemented as directed by OCM. Permittee should be aware that compensatory mitigation projects may be required to be maintained for as many as 20 years for marsh mitigation projects and 50 years for forested wetland mitigation projects. A processing fee will be assessed for the determination of compensatory mitigation requirements and evaluation of the proposed compensatory mitigation plan in accordance with LAC Title 43, Part I, Chapter 7, §724.D. This fee shall apply regardless of which compensatory mitigation option is selected and does not include the cost incurred to implement the required compensatory mitigation.

- i. Permittee shall notify OCM Field Scientist, Frank Cole, at 225-280-4064 or frank.cole@la.gov no later than ten (10) days prior to initiation and following completion of activities permitted under this authorization.



- j. Permittee shall provide to OCM within 30 days following project completion as-built drawings and/or plats that include the actual borrow sources utilized for the completion of the permitted activity and the entire dredged material placement area.
- k. All structures built under the authorization and conditions of this permit shall be removed from the site within 120 days of abandonment of the facilities for the herein permitted use, or when these structures fall into a state of disrepair such that they can no longer function as intended. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
- l. That permittee shall insure that all sanitary sewage and/or related domestic wastes generated during the subject project activity and at the site, thereafter, as may become necessary shall receive the equivalent of secondary treatment (30 mg/l BOD5) with disinfection prior to discharge into any of the streams or adjacent waters of the area or, in the case of total containment, shall be disposed of in approved sewerage and sewage treatment facilities, as is required by the State Sanitary Code. Such opinion as may be served by those comments offered herein shall not be construed to suffice as any more formal approval(s) which may be required of possible sanitary details (i.e. provisions) scheduled to be associated with the subject activity. Such shall generally require that appropriate plans and specifications be submitted to the Department of Health and Hospitals for purpose of review and approval prior to any utilization of such provisions.
- m. The area where the project is located is all part of the aboriginal homelands of the Chitimacha Tribe of Louisiana. As such, large villages, burial sites, and sacred sites were in place in that entire area. If at any time during the course of the work, any traditional cultural properties are discovered, Permittee shall immediately contact Kimberly S. Walden (Cultural Director) or Melanie Aymond (Research Coordinator) at (337) 923-9923 or (337) 923-4395. Office hours are Monday through Thursday from 7:30 A.M. - 5:00 P.M. and on Friday between 7:30 A.M. - 11:30 A.M. If traditional cultural properties are discovered on the weekend or after business hours, the notification shall be made the next business morning.
- n. Permittee is subject to all applicable state laws related to damages which are demonstrated to have been caused by this action.
- o. Permittee shall allow representatives of the Office of Coastal Management or authorized agents to make periodic, unannounced inspections to assure the activity being performed is in accordance with the conditions of this permit.
- p. Permittee shall comply with all applicable state laws regarding the need to contact the Louisiana One Call (LOC) system (1-800-272-3020) to locate any buried cables and pipelines.
- q. This permit authorizes the initiation of the Coastal Use described under "Coastal Use Description" for two (2) years from the date of the signature of the Secretary or his designee on the original permit which was September 16, 2012. Initiation of the Coastal Use, for purposes of this permit, means the actual physical beginning of the use or activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the Coastal Use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, Permittee must, in good faith and with due diligence, reasonably progress toward completion of the project once the Coastal Use has been initiated. If the Coastal Use is not initiated within this two (2) year period, an extension may be granted pursuant to the requirements contained in the Rules and Procedures for Coastal Use Permits (Title 43:I.723.D.). Please note that a request for permit extension MUST be made no sooner than one hundred eighty (180) days and no later than sixty (60) days prior to the expiration of the permit.

The expiration date of this permit is five (5) years from the date of the signature of the Secretary or his designee on the original permit which was September 16, 2012.

Upon expiration of this permit, a new Coastal Use Permit will be required for completion of any unfinished or



uncommenced work items and for any maintenance activities involving dredging or fill that may become necessary. Other types of maintenance activities may also require a new Coastal Use Permit.

***** End of Conditions *****

By accepting this permit the applicant agrees to its terms and conditions.
I affix my signature and issue this permit this 16th day of September, 2012.

THE DEPARTMENT OF NATURAL RESOURCES

Karl L. Morgan, Administrator
Office of Coastal Management

This agreement becomes binding when signed by Administrator of the Office of Coastal Management Permits/Mitigation Division, Department of Natural Resources.

Attachments



Final Plats:

- 1) P20111445 Final Plats 03/20/2012
- 2) P20111445 Final Plats 03/20/2012

cc: Pete Serio, COE w/attachments
Dave Butler, LDWF w/attachments
Jessica Diez, OCM w/attachments
Frank Cole, OCM/FI w/attachments
Jefferson Parish w/attachments
Plaquemines Parish w/attachments

COASTAL PROTECTION AND RESTORATION AUTHORITY w/attachments



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P. O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Operations Division
Eastern Evaluation Section

SUBJECT: MVN-2010-0422-EQ

MAY 19 2010

River Rest, LLC
1800 Carol Sue Avenue, Suite 7
Gretna, Louisiana 70056

Gentlemen:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

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

Sincerely,


Pete J. Serio
Chief, Regulatory Branch

Enclosure

RECEIPT FOR COLLECTION VOUCHER

DATE: MAY 19 2010

RECEIVED FROM: River Rest, LLC

THE SUM OF Ten DOLLARS/AND 4/100 CENTS

(\$ 10⁰⁰) FOR THE FOLLOWING:

	AMOUNT
PERMITTEE: <u>River Rest, LLC</u>	<u>10⁰⁰</u>
PERMIT NUMBER: <u>2010-0422-EQ</u>	
CHECK NUMBER: <u>1581</u> DATED: <u>MAY 19 2010</u>	
TOTAL AMOUNT:	<u>10⁰⁰</u>

REC'D cellell/Abnt
ce Automation Clerk

MAY 19 2010
Date

DEPARTMENT OF THE ARMY PERMIT

Permittee: River Rest, LLC

MAY 19 2010

Permit No. MVN-2010-0422-EQ

Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: To maintain an existing 2200 cubic yard sand fill culverted crossing and an existing 1991 cubic yard sand fill and sheet pile bridged crossing in order to limit water access and improve land access. In accordance with drawings attached in four sheets, undated.

Project Location: Within CWPPRA project BA-39 at Latitude 29.65584/Longitude -90.01263 and Latitude 29.65086/Longitude -90.02532, approximately 5.8 miles east-southeast of Lafitte in Jefferson Parish, Louisiana.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **MAY 31, 2015**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: See Page 4.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X *M. J. Jeanneret* X 5/19/10
 (PERMITTEE) (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Michael V. Farabee May 19, 2010
 Michael V. Farabee, Chief Eastern Evaluation Section (DATE)

for Alvin B. Lee, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEREE) (DATE)

SPECIAL CONDITIONS: MVN-2010-0422-EQ

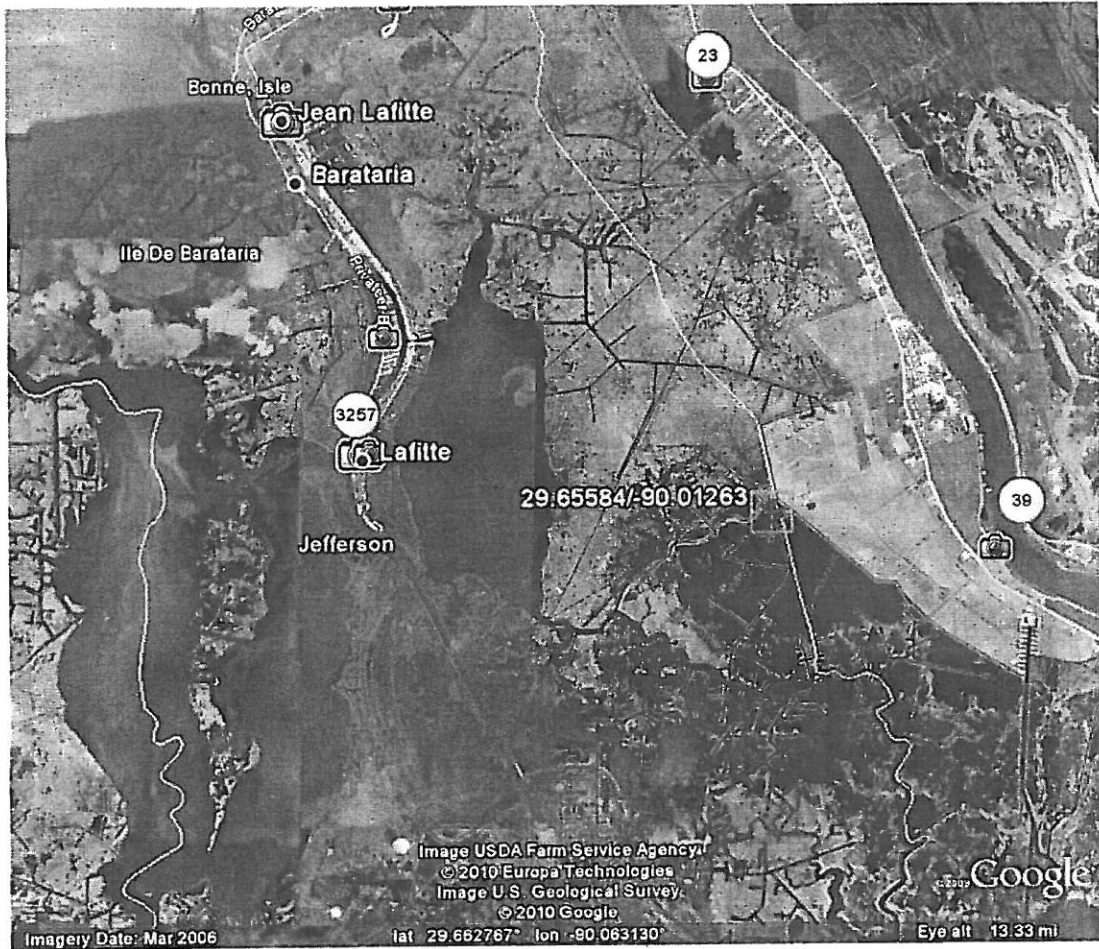
7. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

8. The permittee must install and maintain, at the permittee's expense, any safety lights, signs, and signals prescribed by the US Coast Guard, through regulations or otherwise, on the permittee's authorized facilities.

9. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.,) in the waterway, you are advised to notify the U.S. Coast Guard so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the US Coast Guard District, Sector New Orleans Command Center, 201 Hammond Highway, Metairie, Louisiana 70005, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 846-5923.

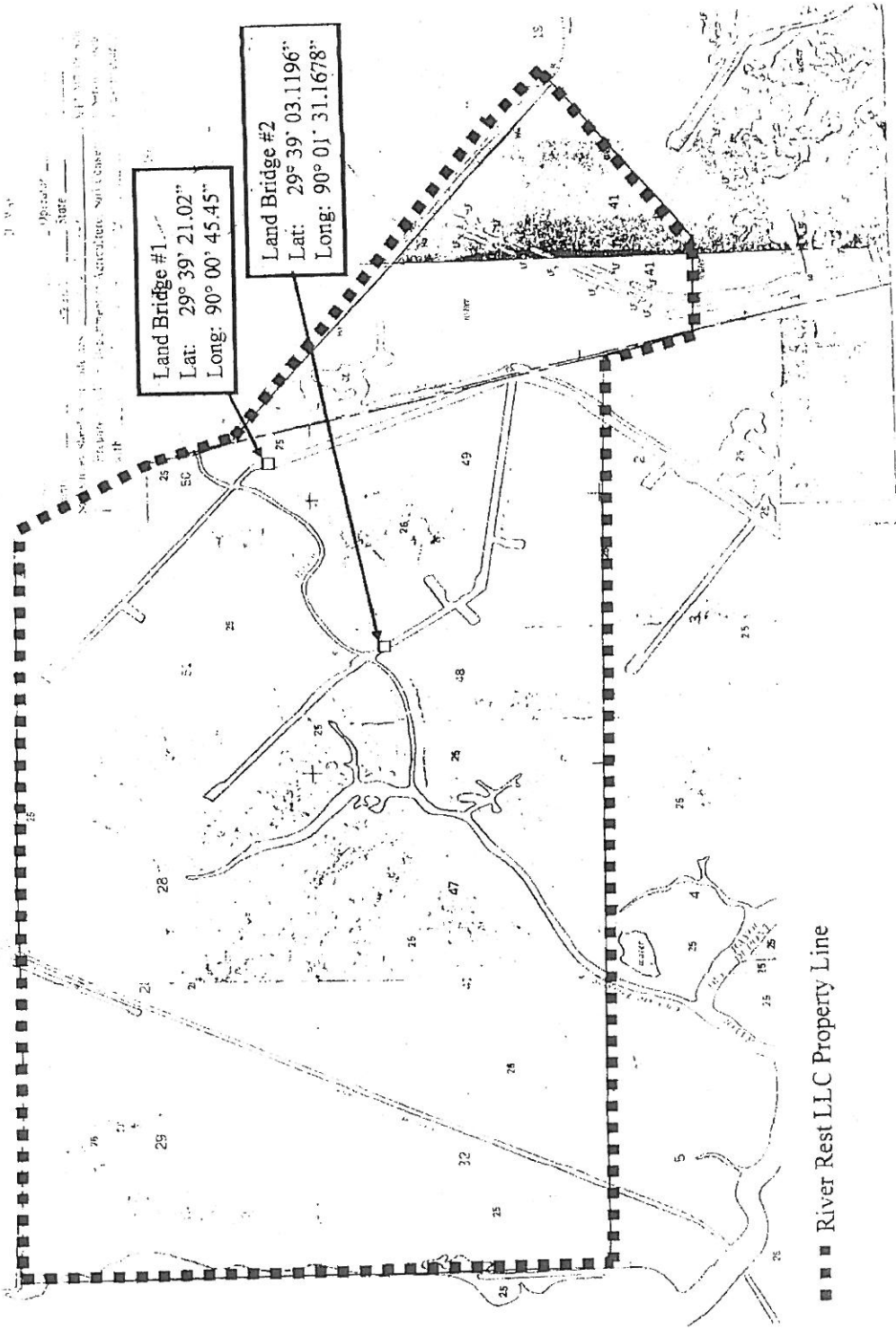
10. The Use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters.

11. The permittee must maintain both crossings open as shown in the enclosed drawings.



Project Site

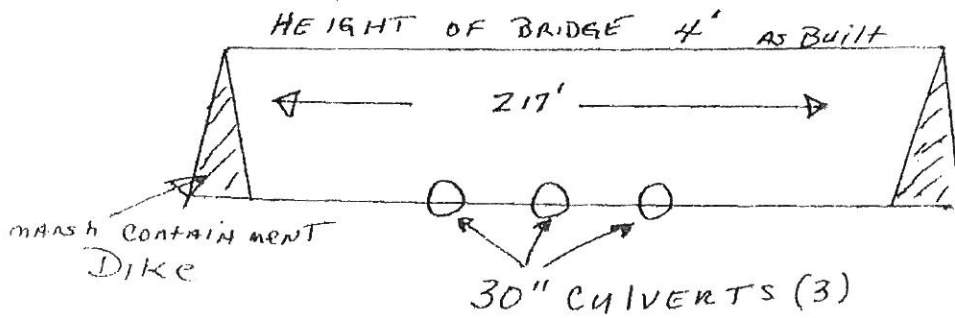
Land Bridge to Limit Water Access and
Improve Land Access, ~~Phragmites~~ Parish
Site Map *Jefferson*



■ ■ ■ River Rest LLC Property Line

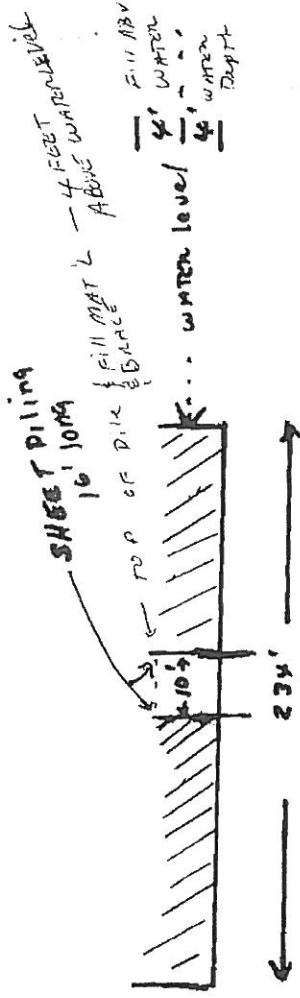
CROSS SECTION
LAND BRIDGE to LIMIT WATER ACCESS AND
IMPROVE LAND ACCESS

2200 yd³ OF SAND USED
ON NON VEGETATED WATER BOTTOM

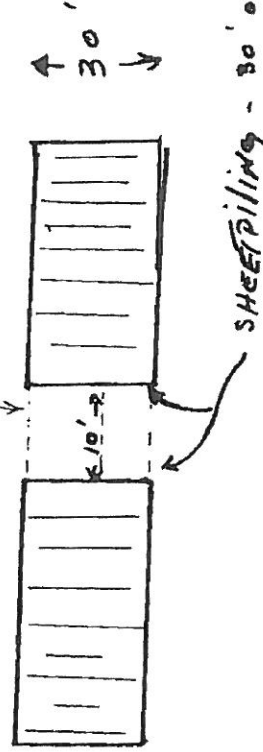


LAT 29° 39' 21.02"
LONG 90° 00' 45.45"

Landbridge #1



CROSS SECTION
NOT TO SCALE



LAND BRIDGE TO LIMIT
WATER ACCESS AND IMPROVE
LAND ACCESS

PLAN VIEW

NOT TO SCALE

Land bridge #2

1991 Yd³ OFF FILL
 .154 ACRES
 OF NON VEGETATED
 WATER BOTTOM

LAT 29° 39' 03.1196"
 LONG 90° 01' 31.1678"



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

RECEIVED

FEB 20 2013

2013 FEB 25 P 1:00

CPRA

Operations Division
Eastern Evaluation Section

SUBJECT: MVN 2010-2720-EFF

National Marine Fisheries Service
Attn: Mr. Richard Hartman
Post Office Box 94245
Baton Rouge, Louisiana 70804-9245

Dear Mr. Hartman:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Operations Division
Eastern Evaluation Section

FFB 20 2013

RECEIVED

2013 FEB 25 P 1:01

CFRA

SUBJECT: MVN 2010-2720-EFF

Louisiana Department of Transportation and Development
Attn: Ms. Sherrie Labas
Post Office Box 94245
Baton Rouge, Louisiana 70804-9245

Dear Ms. Sherrie Labas:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

Michael V. Farabee
Chief, Eastern Evaluation Section

Enclosure

DEPARTMENT OF THE ARMY PERMIT

FEB 20 2013

Permittee: National Marine Fisheries Service (NMFS) & Louisiana Department of Transportation and Development (DOTD).

Permit No. 2010-2720-EFF

Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Excavate and deposit fill to construct the Bayou Dupont Marsh and Ridge Restoration Project (BA-48 CWPPRA), for the purpose of coastal restoration efforts in Jefferson Parish, in accordance with the drawings attached in thirty-five sheets, sheets 1, 4-9, 12-18, 23-28 and 31-35 dated July 2011, sheet 2 dated May 5, 2012, sheet 3 dated December 12, 2012, sheets 11, 19 and 20 dated November 15, 2012 and sheets 21 and 22, 29 and 30 dated December 2011.

Project Location: Within Plaquemines and Jefferson Parish, Section 4 and 10, T17S-R24, located on the Mississippi River (RM 64 and 65), across and south of Highway 23, near Naomi, Louisiana.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on **DEC 31, 2014**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: See Attached.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

x Richie Horton
(PERMITTEE)

x 12-20-2012
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Michael V Farabee
Michael V Farabee, Chief Eastern Evaluation Section

February 19, 2013
(DATE)

for Edward R. Fleming, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)


(DATE)

- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

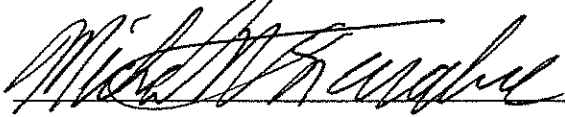
Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

X  X 2/7/2013
 (PERMITTEE) ERIC KALUODA, DEPUTY SECRETARY (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

 February 19, 2013
 Michael V Farabee, Chief Eastern Evaluation Section (DATE)

for Edward R. Fleming, District Commander

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

 (TRANSFEE) (DATE)

SPECIAL CONDITIONS: MVN-2010-2720-EFF

7. This Department of the Army permit authorization expires as of December 31, 2014. The borrow site (Alliance Anchorage Borrow Area) identified in the application, is the saltwater barrier sill's primary Borrow Area #1, (Mississippi River Mile 63.8 to Mile 65 AHP). The issuance of this permit and the permittee's actions hereunder, shall in no way adversely affect the cost, time, and schedule of the planning and/or construction of the saltwater barrier sill by the US Army Corps of Engineers (USACE).

8. The permittee must ensure that 500,000 cubic yards (cy) are always available above elevation -70 NGVD, within the Alliance Anchorage Borrow area. A reserve area for this material has been designated and the reserve quantity must be located within the boundaries shown on the enclosed (Mississippi River Hydrographic Survey Salt Water Sill Borrow Area I- map), as **Attachment I**.

9. While this project is on-going, the permittee must be aware that the USACE may issue a contract to build the sill. If USACE issues a sill solicitation, the permittee shall allow its contractor to bid on the sill contract. If the permittee's contractor is awarded the sill contract, then the permittee shall release the contractor for the time required to build the sill. If the permittee's contractor chooses not to bid on the sill contract or another contractor is awarded the sill contract, the permittee's contractor shall suspend operations and move off site so as not to interfere with or delay the USACE notice to proceed or the sill contractor's work.

10. Until the Alliance Anchorage Borrow Area is naturally restored from the effects of this permit, any additional costs associated with USACE's construction of the sill shall be borne by the permittee. These additional costs could occur after this permit has expired. These additional costs will be calculated by the USACE. The permittee will provide funds prior to USACE opening bids for the saltwater barrier sill contract.

11. Dredging in the Alliance Anchorage Borrow site is limited to a 1V on 5H slope with a control point 400 feet riverward of the levee C/L and El. +5 feet. The permittee shall submit for approval a detailed dredging plan for the Alliance Anchorage Borrow Area. The plan shall be submitted at least 30 days prior to the scheduled commencement of work in the site and shall include hydrographic surveys of the borrow area with plans for dredging; thereby identifying the material to be removed and the 500,000 cy reserved area (material to be reserved above elevation -70 NGVD). USACE must approve the dredging plan prior to the commencement of permittee's work. The surveys and plans shall be updated every 30 days until project completion. All updated plans must also be approved before the permittee can implement the updated plan. The surveys and dredging plan shall be submitted in electronic format and hardcopy to the USACE Mississippi River Operations Manager. For questions or forwarding information, please contact Mrs. Heather Jennings at (504) 862-1253 or heather.l.jennings@usace.army.mil.

SPECIAL CONDITIONS: MVN-2010-2720-EFF

12. To address navigation safety during construction of the project, the permittee will initiate a daily conference call; to include representatives of the dredging contractor, the US Coast Guard, pertinent members of the USACE, and other navigation stakeholders. During construction, the frequency of the conference call can be reduced upon agreement from the US Coast Guard and the USACE.
13. Construction over the Mississippi River levee and back levee and within 10 feet of the levees toes as well as open excavations is limited to river stages below +11 feet on the Carrollton gage.
14. Construction is not allowed when a hurricane is within 5 days of affecting the Louisiana coast. During such times, the site must be secured and flood protection maintained.
15. The permittee is aware that USACE project (NOV-NFL-5) is proposed for the back levee, at the vicinity of the project site.
16. Any damage to the revetment occurring during or as a result of this work will be repaired at the applicant's expense.
17. The authorization does not obviate the permittee from obtaining other necessary approvals from pertinent federal, state, and/or local authorities.
18. You shall notify this office in writing within five working days after construction has been completed.
19. The permittee shall assure that contractors, foremen, and/or workers associated with project implementation are equally cognizant of the conditions and restrictions associated with this approval.
20. If archaeological materials and/or human remains are discovered during ground disturbing activities you shall cease and desist all activities in the project area and contact this office and Mr. Dennis Jones of the Louisiana Office of Cultural Development, Division of Archaeology at (225) 348160.
21. The permittee is aware that future site visits and inspections may be conducted to the project area by this office and/or other resource agencies, to assess project compliance with this authorization and requirements associated herewith.
22. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

SPECIAL CONDITIONS: MVN-2010-2720-EFF

23. Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.
24. You must install and maintain, at your expense, any safety lights, signs and signals prescribed by the US Coast Guard, through regulations or otherwise, on your authorized facilities.
25. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.) in the waterway, you are advised to notify the US Coast Guard so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the US Coast Guard, Sector New Orleans Command Center, 200 Hendee Street, New Orleans, Louisiana 70114, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 365-2281.
26. The Chitimacha Tribe of Louisiana has stated that the project area is part of the aboriginal Chitimacha homelands. If during the course of work at the site, prehistoric and/or historic aboriginal cultural materials are discovered, the applicant will contact the Chitimacha Tribe of Louisiana at Post Office Box 661, Charenton, LA 70523, and the Army Corps of Engineers, New Orleans District (CEMVN) Regulatory Branch. CEMVN will initiate the required Federal, State, and Tribal coordination to determine the significance of the cultural materials and the need, if applicable, for additional cultural resource investigations.
27. In accordance with your coordination efforts with the Maritime Navigation Safety Association, you will abide by the enclosed Dredging Procedures Narrative, shown as (**Attachment II**) to this authorization. Due to changes implemented and finalized within this Department of the Army permit, certain cubic yard quantities portrayed within Attachment II may not correspond with authorized calculations.
28. The proposed project occurs within an area impacted by the Deepwater Horizon Oil Spill in the summer of 2010 and activities such as yours could potentially re-suspend oiled sediments that may be located in the area. It is also noted that cleanup crews associated with the US Coast Guard's Deepwater Horizon Response are potentially working in multiple sites located throughout the Louisiana coastal area. In order to coordinate and mitigate potential re-suspension of oiled sediments, adverse impacts to fish and wildlife species, and safety issues related to cleanup operations; the permittee shall contact and coordinate with LT David R. Simonson, US Coast Guard Deepwater Horizon Response (504-252-8748 or david.r.simonson@uscg.mil), prior to commencement of work.
29. After one complete growing season following completion of spoil placement within the proposed marsh restoration areas, the permittee will manually breach or degrade earthen containment dikes to marsh elevation, if they do not degrade naturally.

SPECIAL CONDITIONS: MVN-2010-2720-EFF

30. If the proposed project requires any additional work not expressly permitted herein, the permittee must obtain an amendment to this authorization prior to commencement of work.

31. In order to address potential impacts to the **Pallid sturgeon**, the cutterhead shall remain completely buried in the bottom material during dredging operations. If pumping water through the cutterhead is necessary to dislodge material or to clean the pumps or cutterhead, etc., the pumping rate shall be reduced to the lowest rate possible until the cutterhead is at mid-depth, where the pumping rate can then be increased. During dredging, the pumping rates shall be reduced to the slowest speed feasible while the cutterhead is descending to the channel bottom. Should the proposed project directly or indirectly affect the pallid sturgeon or their habitats, further consultation with that office will be necessary.

32. In order to address potential impacts to the **West Indian manatee**, in the event of water-related activities, all personnel associated with the project should be instructed about the potential presence of manatees, manatee speed zones, and the need to avoid collisions with an injury to manatees. All personnel should be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel should be instructed not to attempt to feed or otherwise interact with the animal, although passively taking pictures or video would be acceptable and could provide useful data in the Service's on-going manatee conservation efforts. During in-water work in areas that potentially support manatees, all on-site personnel are responsible for observing water-related activities for the presence of manatee(s). The following actions will be administered to minimize potential impact to manatee: (1) all work, equipment, and vessel operation should cease if a manatee is spotted within a 50 foot radius (buffer zone) of the active work area. Once the manatee has left the 50 foot buffer zone on its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings of manatee(s) in the buffer zone, in-water work can resume under careful observation for manatees. (2) If a manatee is sighted in or near the project area, all vessels associated with the project should operate at "no wake/idle" speeds within the construction area and at all times while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom. Vessels should follow routes of deep water whenever possible. (3) If used, siltation or turbidity barriers should be properly secured, made of material in which manatees cannot become entangled, and be monitored to avoid manatee entrapment or impeding their movement. (4) Collisions with, injury to, or sightings of manatees should be immediately reported to the US Fish and Wildlife Service's (USFWS) Louisiana Ecological Services Office (337/293-1100) and the Louisiana Department of Wildlife and Fisheries, Natural Heritage Program (225/765-2821). Please provide the nature of the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible. Should the proposed project directly or indirectly affect the West Indian manatee or their habitats, further consultation with that office will be necessary.

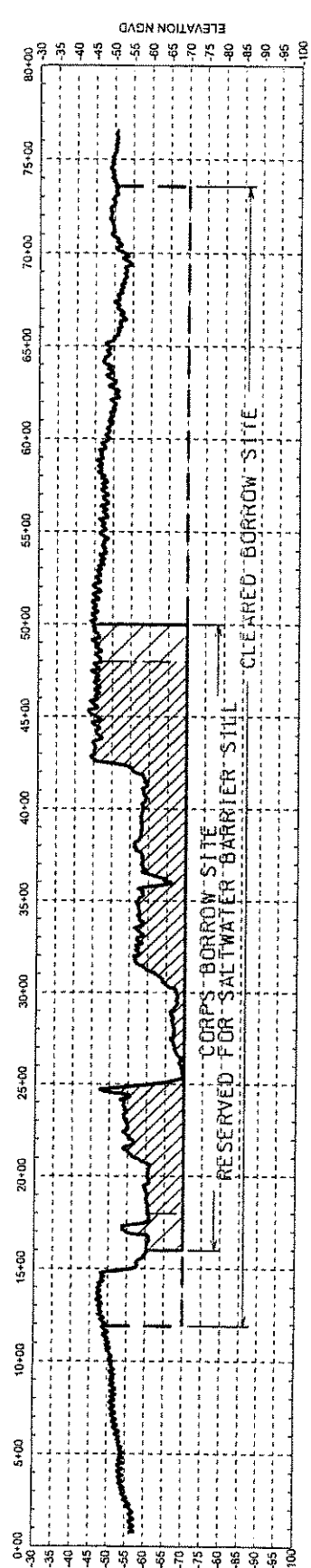
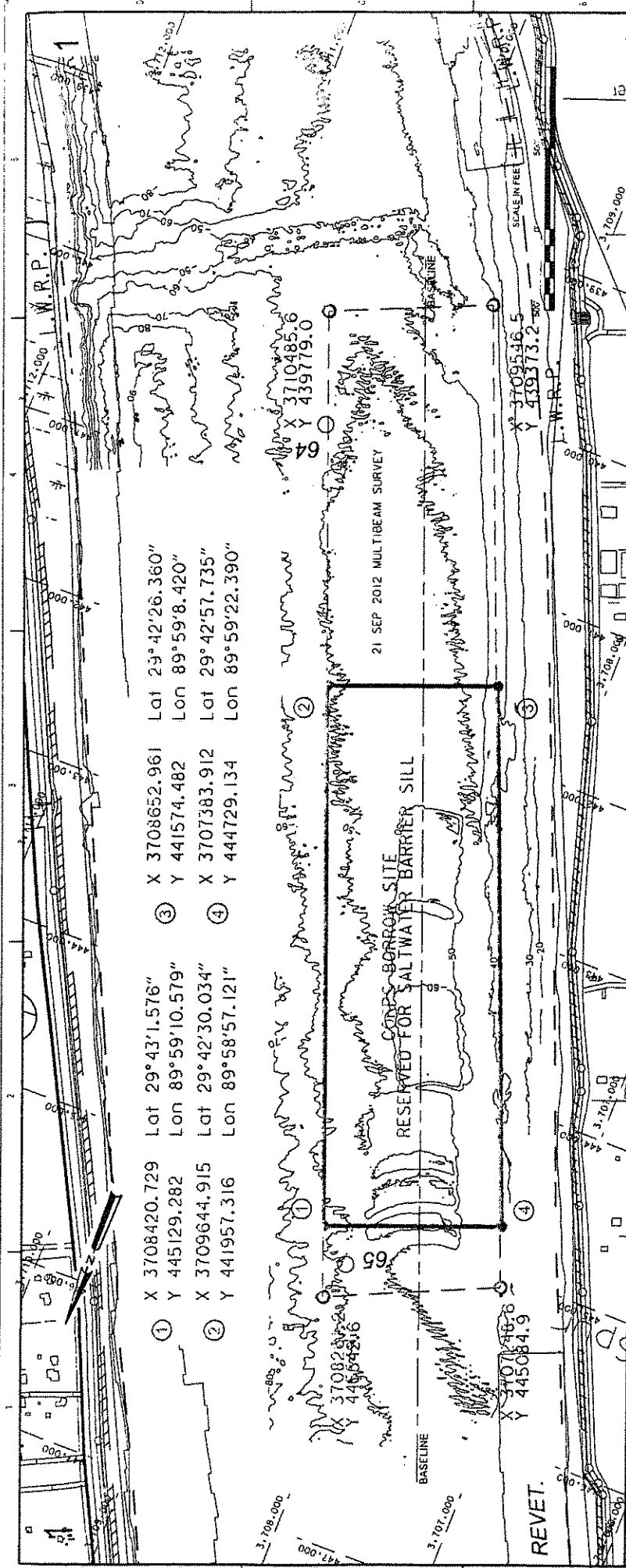
SPECIAL CONDITIONS: MVN-2010-2720-EFF

33. In order to minimize potential project impacts to **bald eagles**, particularly where such impacts may constitute “disturbance,” which is prohibited by the BGEPA, the permittee shall abide by the

following guidelines: <http://www.fws.gov/southeast/es/baldeagle/NationalBaldEagleManagementGuidelines.pdf>. These Guidelines recommend: (1) maintaining a specified distance between the activity and the nest (buffer area); (2) maintaining natural areas (preferably forested) between the activity and nest trees (landscape buffers); and (3) avoiding certain activities during the breeding season. During any project construction, on-site personnel should be informed of the possible presence of nesting bald eagles in the vicinity of the project boundary, and should identify, avoid, and immediately report any such nests to this office. If a bald eagle nest occurs or is discovered within 1,500 feet of the proposed project area, then an evaluation must be performed to determine whether the project is likely to disturb nesting bald eagles. That evaluation may be conducted on-line at: <http://www.fws.gov/southeast/es/baldeagle>. Following completion of the evaluation, that website will provide a determination of whether additional consultation is necessary. Should you need further assistance interpreting the guidelines, avoidance measures, or performing an on-line project evaluation, please contact Mrs. Patti Holland with the USFWS at (337) 291-3121.

34. To minimize disturbance to **colonial nesting birds**, the following restrictions on activity should be observed: (1) For colonies containing nesting wading birds (i.e., herons, egrets, nightheron, ibis, and roseate spoonbills), anhingas, and/or cormorants, all activity occurring within 1,000 feet of a rookery should be restricted to the non-nesting period (i.e., September 1 through February 15, exact dates may vary within this window depending on species present). (2) On-site contract personnel be informed of the need to identify colonial nesting birds and their nests, and should avoid affecting them during the breeding season. (3) If it is necessary to perform work within 1,000 feet of a known nest site during the nesting season, a migratory bird abatement plan will need to be developed in consultation with the Service. That plan will include deterrence measures to ensure that birds do not nest in proximity to the work area during the construction period. Patti Holland with the USFWS is the Service contact for such matters and can be reached at 337-291-3121.

35. Prior to initiation of work within 1500 feet of the Mississippi River Levee system and/or within 300 feet of the back Hurricane Protection Levee, the permittee must acquire a **Letter of No Objection** from the USACE, Operations Manager of Completed Works. For information relevant to this approval, you may contact the (Operations Manager, Mrs. Amy Powell at 504-862-2241) or (Project Manager, Mrs. Karen Clement at 504-862-2313).



ATTACHMENT I

		MISSISSIPPI RIVER HYDROGRAPHIC SURVEY SALTWATER SILL BORROW AREA 1 MILE 63.87 TO 65.03		15 NOV 2012		1	
PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN	
PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN		PROJECT: MISSISSIPPI RIVER SALTWATER SILL BORROW AREA 1 DRAWING: SALTWATER SILL BORROW AREA 1 DATE: 11/15/2012 SCALE: AS SHOWN	

Mississippi River Dredging for the Bayou Dupont Marsh and Ridge Creation (BA-48)

Dredging Procedures Narrative

I. Introduction

The National Marine and Fisheries Services (NMFS) and The Coastal Protection and Restoration Authority (CPRA) have applied for a permit to construct the Bayou Dupont Marsh and Ridge Creation Project (BA-48). This project intends to create approximately 317 acres of sustainable marsh and approximately two miles of ridge along the southern shore of Bayou Dupont. Due to the project's close proximity to the Mississippi River, it is intended to utilize the renewable sediment resource from the Mississippi River to accomplish these objectives. In the spring of 2010, Mississippi River sediment was used successfully to complete the construction of the CWPPRA Project, Mississippi River Sediment Delivery System Bayou Dupont (BA-39). This narrative will present the proposed protocols for mining the sediment from the Mississippi River Alliance Anchorage borrow area and the proposed sediment delivery system to the project area.

II. Borrow Area

The Alliance Anchorage borrow area (approximately Mississippi RM 63.7 to RM 65 Above Head of Passes) was chosen as the sediment source for this project due to its' previous use as the BA-39 borrow area and available material. Permit drawing sheets 3 and 10 depict the horizontal delineation and the typical section of the proposed borrow area. The designated borrow area will stretch approximately 7000 feet along the alliance anchorage borrow area with an average width of approximately 900 feet. The western boundary will be approximately 800 feet to the centerline of the Mississippi River and Tributary (MRT) levee and the eastern boundary will maintain an approximate distance of 300 feet from the navigation channel.

1. Dredging Operations

Approximately 3.3 million cubic yards of material will be dredged from the designated area. The material will be hydraulically dredged using a cutterhead dredge to an elevation of -90 feet NAVD88. Approximately 1.3 million cubic yards will be retained within the southern portion of the borrow area to accommodate the potential need for the construction of the USACE Saltwater Barrier Sill at approximately RM 63.55. It is anticipated that dredging will begin at the northern-most portion of the delineated borrow area and move southward. If the infilling rate proves to be replenishing material in the initially dredged northern portion during dredging production, the dredge may re-dredge the newly deposited material before moving to the southern reaches of the borrow area.

2. Dredging Safety

2.a Mississippi River and Tributary Levee Stability Evaluation. A global slope stability analysis of the Mississippi River and Tributary levee has been performed using the proposed dredging template. Factors of safety calculated exceed the minimum factors of safety provided by the *Hurricane and Storm Damage Risk Reduction System (HSDRRS) Design Guidelines* dated June 12, 2008.

2.b Floating Sediment Pipeline. The dredge pipeline will contain a floating segment between the dredge and the shoreline pipe. The contractor will be required to provide the location of the floating sediment pipeline in the work plan, daily communication plan. Segments of floating sediment pipeline shall be clearly marked with dredging aids and lights in such a way as to obstruct or confuse navigation. All dredging aid markers and lights shall comply with the regulations set forth in Commandant USCG Instruction M16672.2, Navigation Rules: International-Inland (COMDTINST M16672.2), or 33 CFR 81 Appendix A (International) and 33 CFR 84 through 33 CFR 89 (Inland) as applicable.

2.c Communication. The contractor will be required to submit a daily communication plan to the Owner, the USACE, and the MNSA. The dredge will communicate with the main control stations using bridge-to-bridge radiotelephones capable of transmitting and receiving on the frequencies within the 156 to 162 Megahertz band using the class of emissions designated by the Federal Communications Commission for the exchange of navigational information. During mobilization, construction, and demobilization, an Officer shall be required to be present on the dredge. The Officer shall be required to implement operational safety of all vessels associated with the project and will be required to monitor the marine radio channels for vessel-to-vessel communications.

2.d Dredge Location Control. The dredge shall be required to operate electronic positioning equipment that shall send clear and frequent dredge position updates so as to ensure accurate and continuous accessibility to the location of the dredge. The contractor's daily communication plan shall include the delineation of the dredge, attendant plant, anchor, buoys, and floating pipeline.

2.e Interference with Mississippi River Traffic. Based on the delineation of the cutterhead dredge work area, there should be no interference with Mississippi River traffic. The borrow area's eastern-most limit runs approximately 300 feet from the boundary of the navigation channel. The dredge shall be required to attach buoys to its anchor lines to alert river traffic of the anchors' locations within the dredge anchor limits shown on the permit drawings. This information will be provided daily to the MNSA.

2.f Obstruction of Navigable Waterways. In order to keep the Mississippi River free of obstructions, any item (material, plant, machinery, or appliance) which is misplaced overboard shall be promptly marked in accordance with USCG regulations. USCG - Eighth District shall be notified immediately so as to include the description and location in the "Local Notice to Mariners" issued weekly. The obstructions shall then be recovered and removed as quickly as possible.

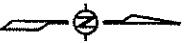
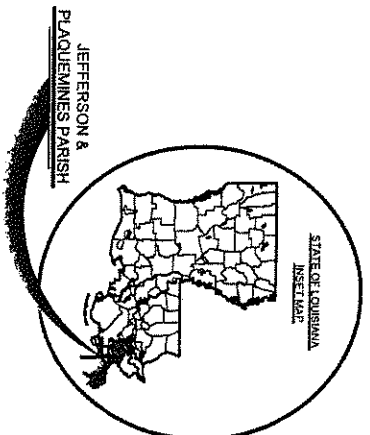
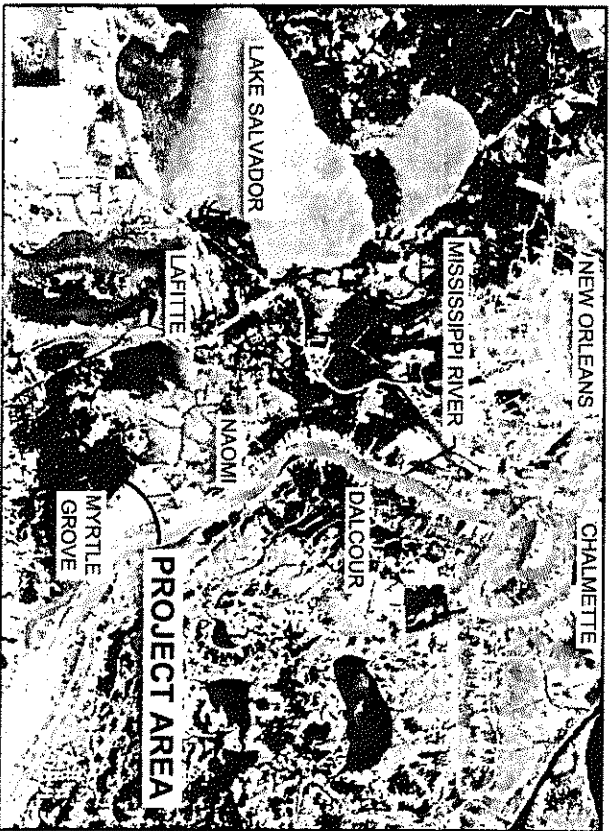
2.g Pipeline Crossings. All petroleum pipelines at this location in the Mississippi River are outside of the cutterhead dredge work area. No hydraulic dredging will take place within 500 feet of any existing pipeline or submerged transmission line.

INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	PROJECT LAYOUT
3	ALLIANCE ANCHORAGE BORROW AREA LAYOUT
4-7	PLAN VIEW
8	DREDGE PIPELINE CORRIDOR LAYOUT
9	MARSH CREATION AREA LAYOUT
10-15	TYPICAL SECTIONS
16	BAYOU DUPONT WEIR DETAILS
17	BOOSTER PUMP SITE TYPICAL DETAILS
18	EARTHEN CONTAINMENT DIKE AND RIDGE DETAILS
19	HIGHWAY CROSSING DETAIL
20	RAILROAD CROSSING DETAIL
21-22	MISSISSIPPI RIVER LEVEE CROSSING DETAIL
23-24	LEVEE INSPECTION ROAD CROSSING DETAILS
25	CATTLE CROSSING DETAILS
26	DIRT ROAD CROSSING DETAILS
27-28	GRAVEL ROAD CROSSING DETAIL
29-30	FLOOD PROTECTION LEVEE CROSSING DETAILS
31	TEMPORARY CANAL CROSSING DETAILS
32	CANAL SILL AND ACCESS RESTRICTION DETAILS
33	SIGN DETAILS
34	BUOY DETAILS
35	NAVIGATIONAL AID DETAILS

STATE OF LOUISIANA
COASTAL PROTECTION & RESTORATION AUTHORITY

BAYOU DUPONT MARSH
AND RIDGE CREATION
BA-48
JEFFERSON & PLAQUEMINES PARISHES



APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
151 SOUTH STATE DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND
RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH
AND RIDGE CREATION

TITLE SHEET

DRAWN BY: KRISTI GANTU










DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011
SHEET 1 OF 35

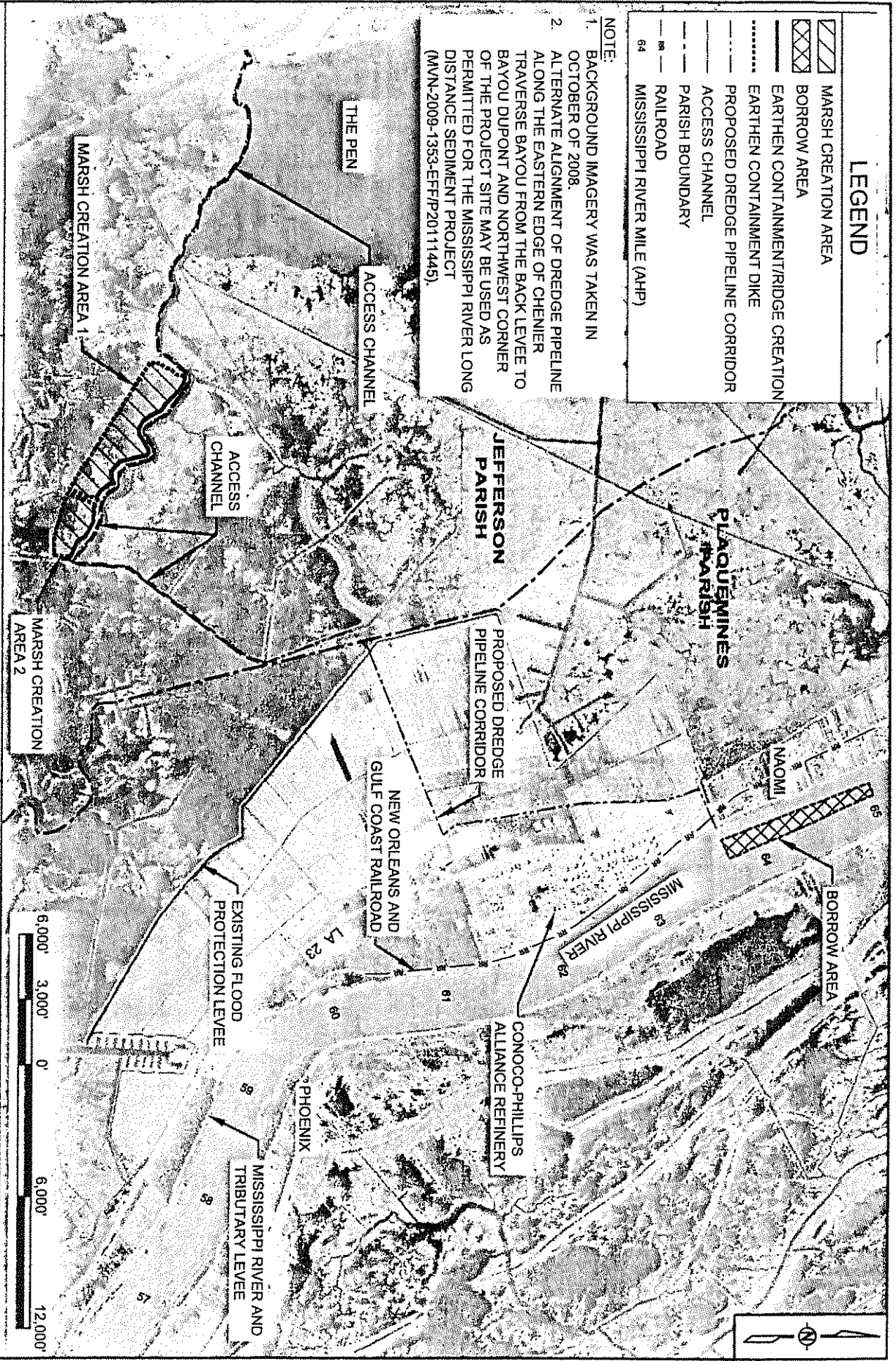
STATE PROJECT NUMBER: BA-48

LEGEND

-  MARSH CREATION AREA
-  BORROW AREA
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  PROPOSED DREDGE PIPELINE CORRIDOR
-  ACCESS CHANNEL
-  PARISH BOUNDARY
-  RAILROAD
-  MISSISSIPPI RIVER MILE (AHP)

NOTE:

1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
2. ALTERNATE ALIGNMENT OF DREDGE PIPELINE ALONG THE EASTERN EDGE OF CHEMIER TRAVERSE BAYOU FROM THE BACK LEVEL TO BAYOU DUPONT AND NORTHWEST CORNER OF THE PROJECT SITE MAY BE USED AS PERMITTED FOR THE MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PROJECT (MVN-2009-1353-EFF/P/20111445).



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 1501 SOUTH STADIUM AVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 4501 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

PROJECT LAYOUT

STATE PROJECT NUMBER: BA-48

DATE: JULY 2011 (MOD. MAY 2012)

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E.

APPROVED BY: MAURY CHATELIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

SHEET 2 OF 35

BORROW AREA (TOP OF CUT)		
PT.	LATITUDE	LONGITUDE
1	29° 43' 10.47" N	89° 59' 24.17" W
2	29° 43' 02.46" N	89° 59' 20.84" W
3	29° 43' 01.88" N	89° 59' 22.36" W
4	29° 42' 58.29" N	89° 59' 20.75" W
5	29° 42' 53.82" N	89° 59' 18.33" W
6	29° 42' 42.47" N	89° 59' 13.18" W
7	29° 42' 38.29" N	89° 59' 11.50" W
8	29° 42' 26.77" N	89° 59' 07.22" W
9	29° 42' 05.06" N	89° 58' 57.01" W
10	29° 42' 09.07" N	89° 58' 46.04" W
11	29° 42' 13.66" N	89° 58' 47.96" W
12	29° 42' 18.97" N	89° 58' 50.89" W
13	29° 42' 23.14" N	89° 58' 52.99" W
14	29° 42' 28.84" N	89° 58' 55.57" W
15	29° 42' 30.32" N	89° 58' 56.31" W
16	29° 42' 35.88" N	89° 58' 59.10" W
17	29° 42' 44.79" N	89° 59' 03.41" W
18	29° 42' 51.52" N	89° 59' 07.19" W
19	29° 42' 59.11" N	89° 59' 11.27" W
20	29° 43' 05.25" N	89° 59' 14.39" W
21	29° 43' 12.41" N	89° 59' 18.11" W

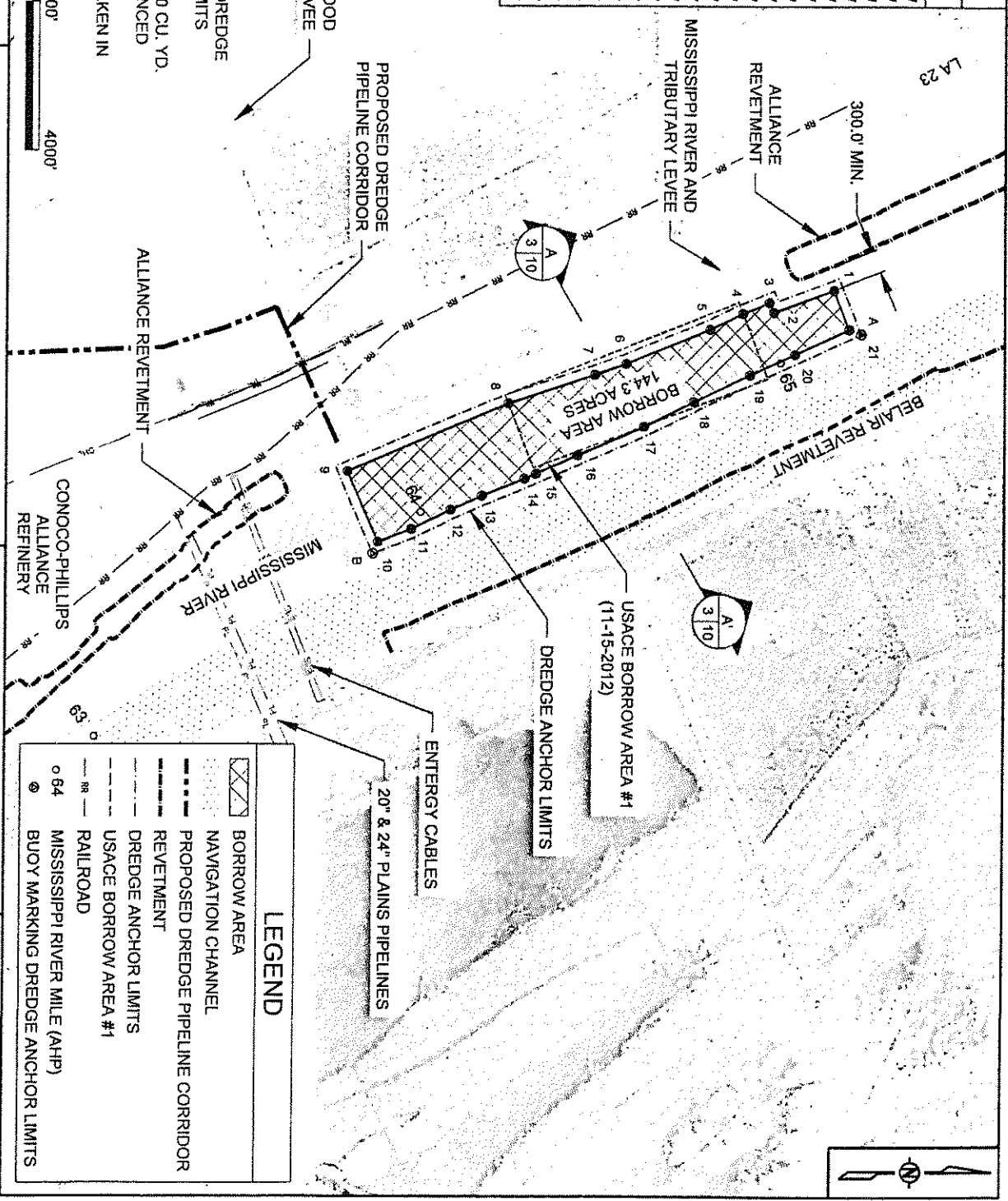
BUOYS MARKING DREDGE ANCHOR LIMITS		
PT.	LATITUDE	LONGITUDE
A	29° 43' 13.97" N	89° 59' 17.37" W
B	29° 43' 08.38" N	89° 58' 44.24" W

- NOTES:
1. THE CONTRACTOR SHALL NOT DREDGE BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS.
 2. EXCAVATION VOLUME = 7,120,700 CU. YD. FROM TOP OF CUT.
 3. BORROW AREA POINTS REFERENCED OCTOBER OF 2010.
 4. BACKGROUND IMAGERY WAS TAKEN IN



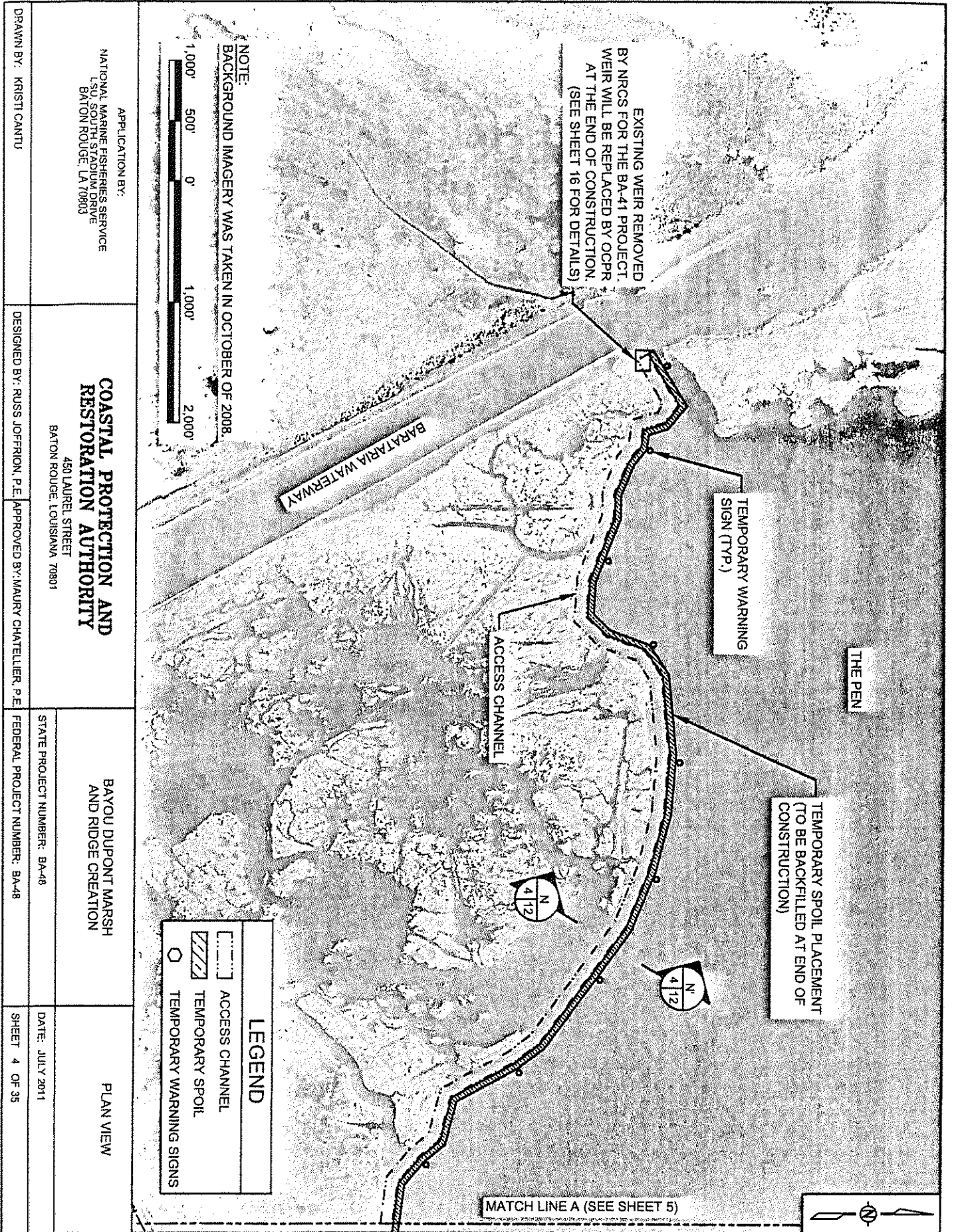
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSI SOUND STATION DRIVE
 BATON ROUGE, LA 70803

DRAWN BY: KRISTI CANTU



LEGEND	
	BORROW AREA
	NAVIGATION CHANNEL
	PROPOSED DREDGE PIPELINE CORRIDOR
	REDEMPTION
	DREDGE ANCHOR LIMITS
	USACE BORROW AREA #1
	RAILROAD
	MISSISSIPPI RIVER MILE (AHP)
	BUOY MARKING DREDGE ANCHOR LIMITS

DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELIER, P.E.	FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MDD DEC. 12, 2012)
COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		STATE PROJECT NUMBER: BA-48	SHEET 3 OF 35
BAYOU DUPONT MARSH AND RIDGE CREATION		ALLIANCE ANCHORAGE BORROW AREA LAYOUT	



EXISTING WEIR REMOVED BY NRCS FOR THE BA-41 PROJECT. WEIR WILL BE REPLACED BY OCPR AT THE END OF CONSTRUCTION. (SEE SHEET 16 FOR DETAILS)

TEMPORARY WARNING SIGN (TYP.)

THE PEN

TEMPORARY SPOIL PLACEMENT (TO BE BACKFILLED AT END OF CONSTRUCTION)

MATCH LINE A (SEE SHEET 5)

NOTE:
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.



APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
151 SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

STATE PROJECT NUMBER: BA-48

PLAN VIEW

DATE: JULY 2011

DRAWN BY: KRISTI CANTU







DESIGNED BY: RUSS JOFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

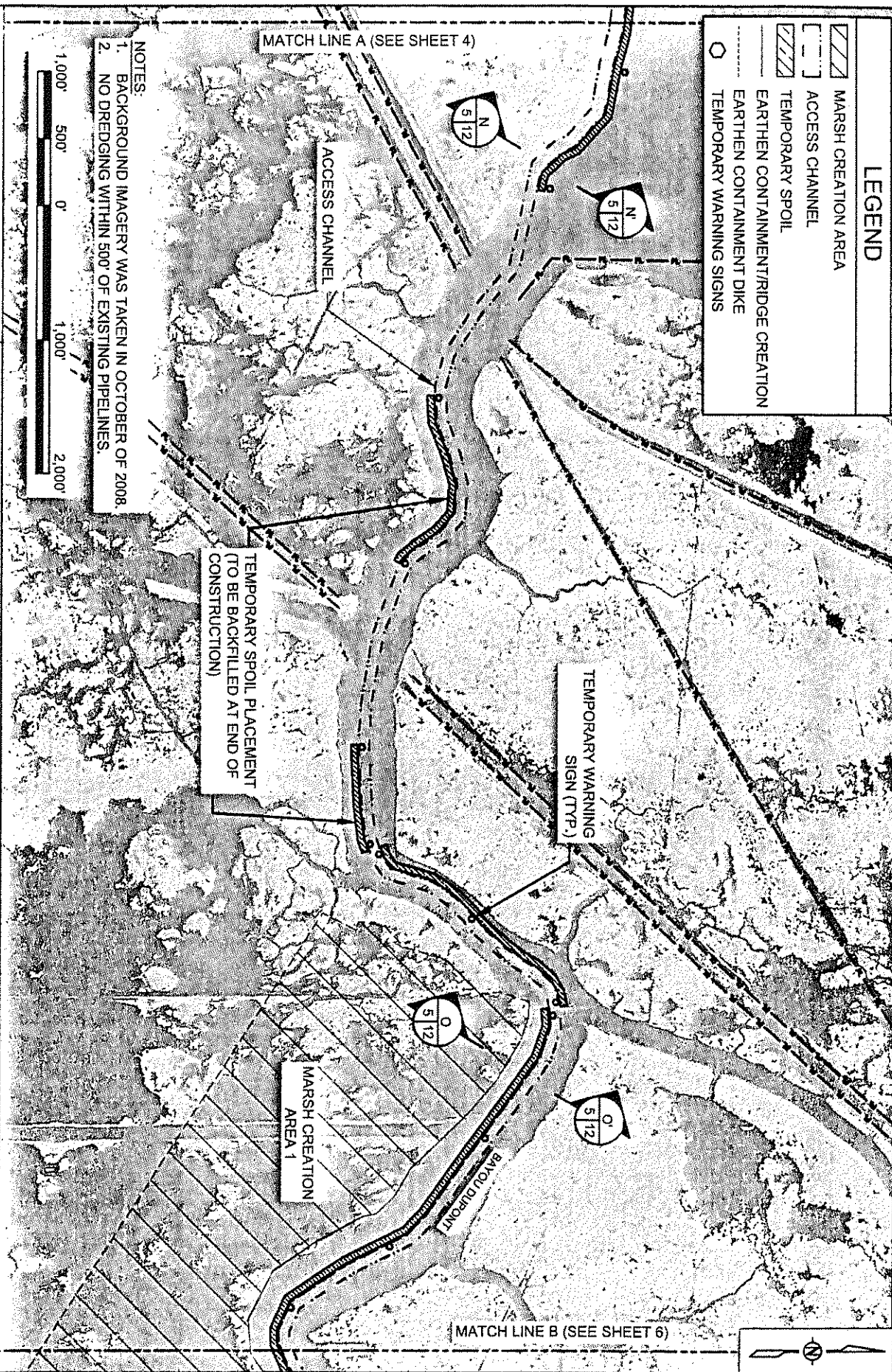
FEDERAL PROJECT NUMBER: BA-48

SHEET 4 OF 35

LEGEND	
	ACCESS CHANNEL
	TEMPORARY SPOIL
	TEMPORARY WARNING SIGNS

LEGEND

-  MARSH CREATION AREA
-  ACCESS CHANNEL
-  TEMPORARY SPOIL
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  TEMPORARY WARNING SIGNS



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

PLAN VIEW








DRAWN BY: KRISTI CANTU

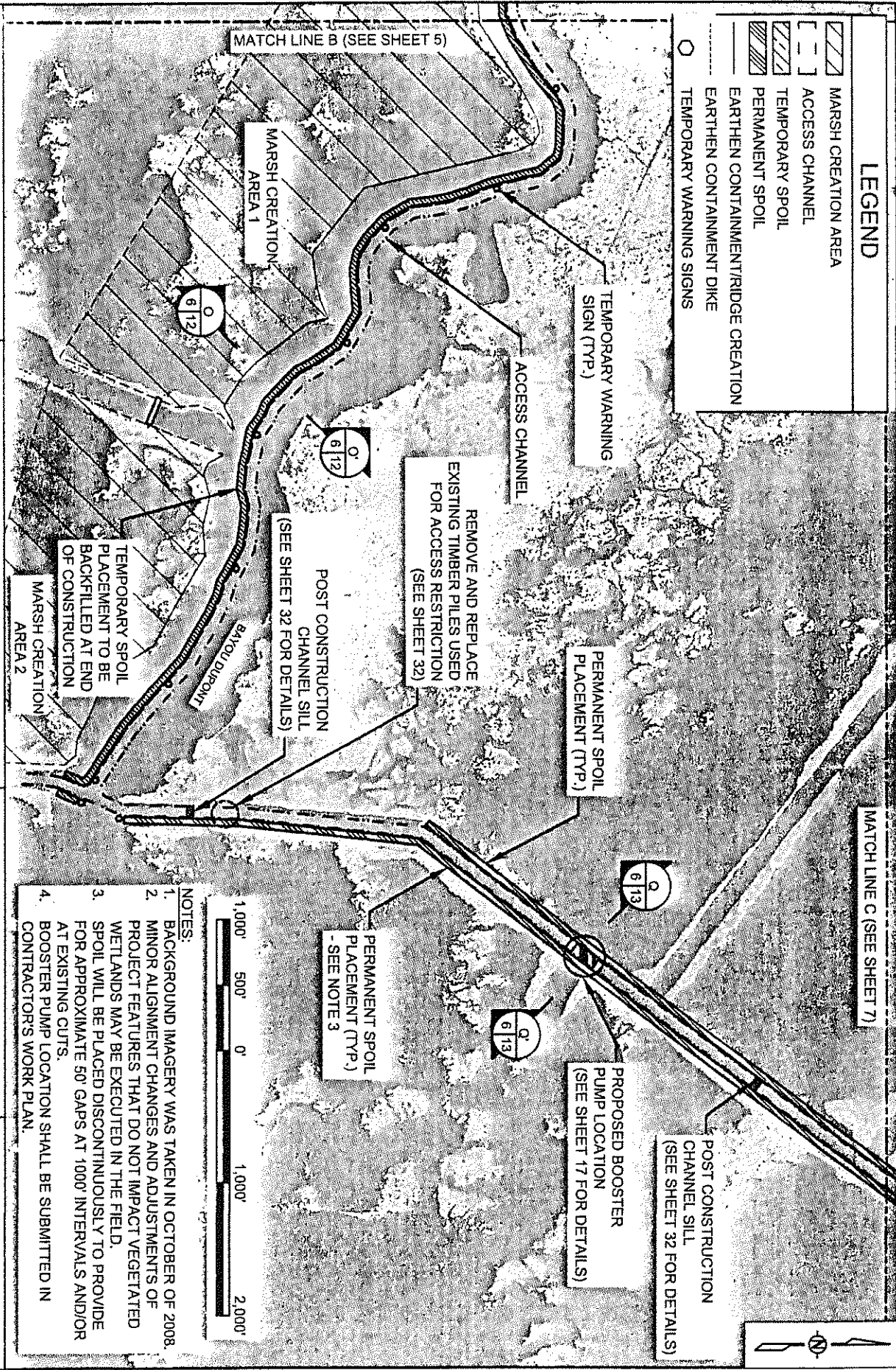
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLER, P.E.

STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011
 SHEET 5 OF 35

LEGEND

-  MARSH CREATION AREA
-  ACCESS CHANNEL
-  TEMPORARY SPOIL
-  PERMANENT SPOIL
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  TEMPORARY WARNING SIGNS



REMOVE AND REPLACE EXISTING TIMBER PILES USED FOR ACCESS RESTRICTION (SEE SHEET 32)

POST CONSTRUCTION CHANNEL SILL (SEE SHEET 32 FOR DETAILS)

TEMPORARY SPOIL PLACEMENT TO BE BACKFILLED AT END OF CONSTRUCTION

PERMANENT SPOIL PLACEMENT (TYP.) - SEE NOTE 3

PROPOSED BOOSTER PUMP LOCATION (SEE SHEET 17 FOR DETAILS)

POST CONSTRUCTION CHANNEL SILL (SEE SHEET 32 FOR DETAILS)



- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
 2. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
 3. SPOIL WILL BE PLACED DISCONTINUOUSLY TO PROVIDE FOR APPROXIMATE 50' GAPS AT 1000' INTERVALS AND/OR AT EXISTING CUTS.
 4. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

PLAN VIEW




DRAWN BY: KRISTI CANTU

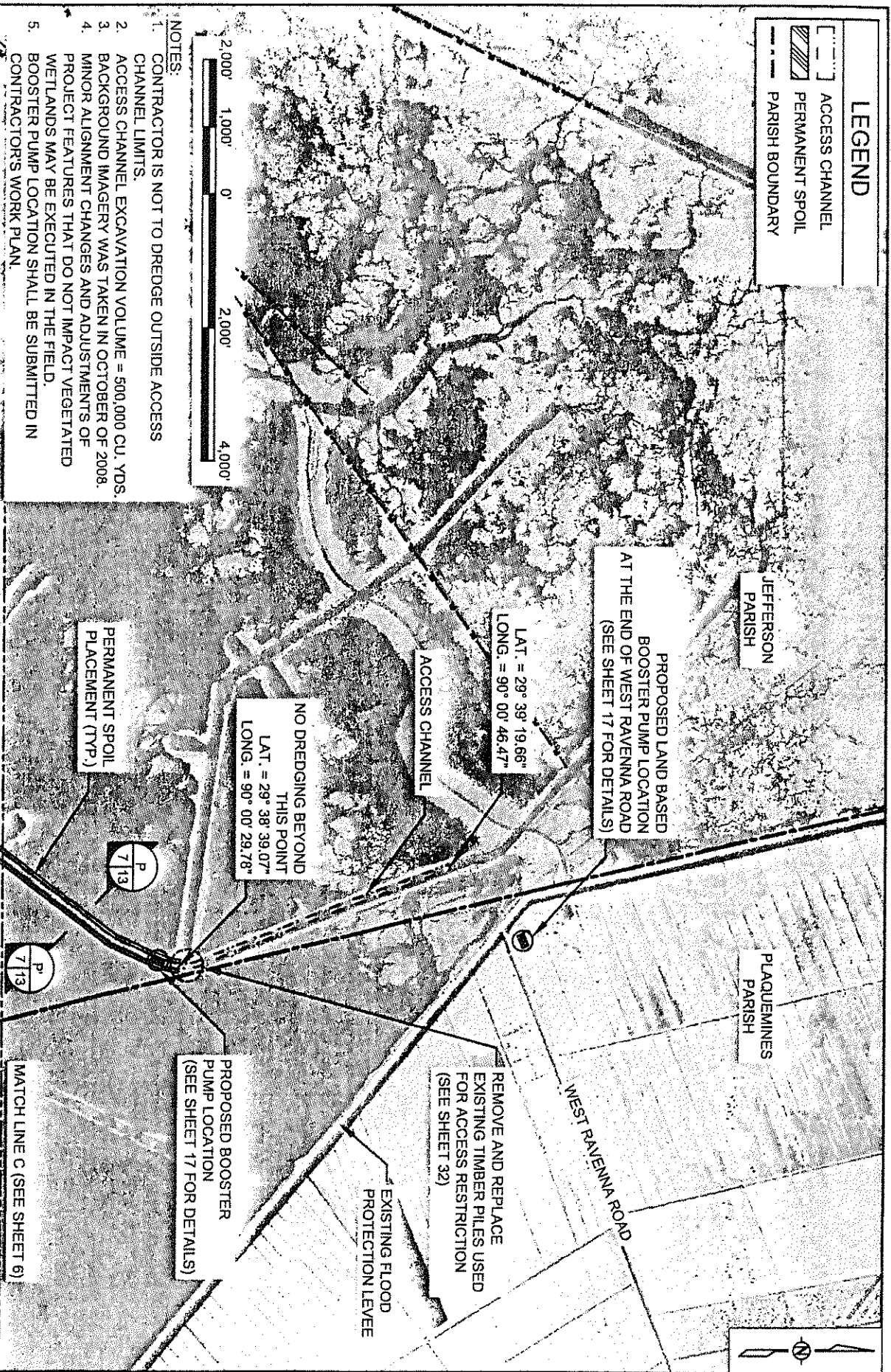
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011
 SHEET 6 OF 35

LEGEND

-  ACCESS CHANNEL
-  PERMANENT SPOIL
-  PARISH BOUNDARY



- NOTES:**
1. CONTRACTOR IS NOT TO DREDGE OUTSIDE ACCESS CHANNEL LIMITS.
 2. ACCESS CHANNEL EXCAVATION VOLUME = 500,000 CU. YDS.
 3. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
 4. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
 5. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.



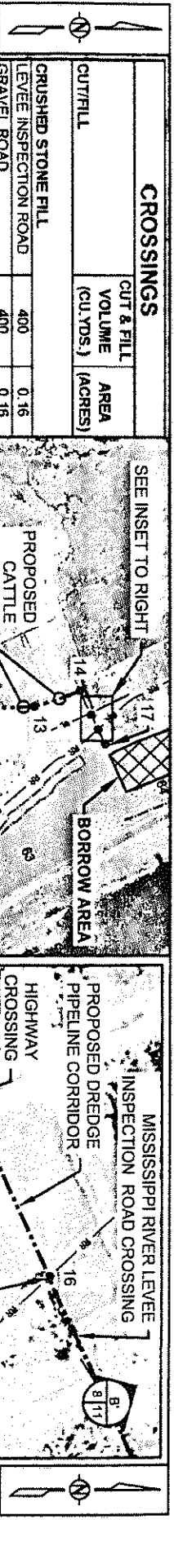
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

PLAN VIEW

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
FEDERAL PROJECT NUMBER: BA-48		SHEET 7 OF 35	



CROSSINGS		
CUT & FILL	CUT & FILL VOLUME (CU YDS.)	AREA (ACRES)
CRUSHED STONE FILL		
LEVEE INSPECTION ROAD	400	0.16
GRAVEL ROAD	400	0.16
FLOOD PROTECTION LEVEE	400	0.16
DIRT ROAD	400	0.16
DRIVEWAY X 2	800	0.32
DIRT FILL	2,400	0.96
HIGHWAY	3,130	0.17
RAILROAD	2,590	0.16
CATTLE X 4	1,590	0.64
	7,310	0.97
MISSISSIPPI RIVER BORROW AREA		
CANAL CROSSING	1,920	1.9
TOTAL	11,630	3.83

NOTE:
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.



PT.	LATITUDE	LONGITUDE
1	29° 37' 11.18"	90° 01' 24.30"
2	29° 37' 16.41"	90° 01' 21.44"
3	29° 37' 22.94"	90° 01' 21.58"
4	29° 37' 38.71"	90° 01' 19.40"
5	29° 38' 30.16"	90° 00' 33.62"
6	29° 38' 40.98"	90° 00' 29.97"
7	29° 39' 19.18"	90° 00' 46.11"
8	29° 39' 27.06"	90° 00' 36.52"
9	29° 40' 00.10"	89° 58' 59.20"
10	29° 40' 05.58"	89° 59' 04.03"
11	29° 40' 16.32"	89° 59' 08.00"
12	29° 41' 06.43"	89° 59' 15.15"
13	29° 41' 40.40"	89° 59' 16.32"
14	29° 41' 55.64"	89° 59' 22.28"
15	29° 41' 58.20"	89° 59' 12.86"
16	29° 42' 01.43"	89° 59' 07.24"
17	29° 42' 03.65"	89° 59' 01.44"

LEGEND	
	MARSH CREATION AREA
	BORROW AREA
	EARTHEN CONTAINMENT/RIDGE CREATION
	EARTHEN CONTAINMENT DIKE
	PROPOSED DREDGE PIPELINE CORRIDOR
	RAILROAD
	MISSISSIPPI RIVER MILE (AHP)

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA, 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

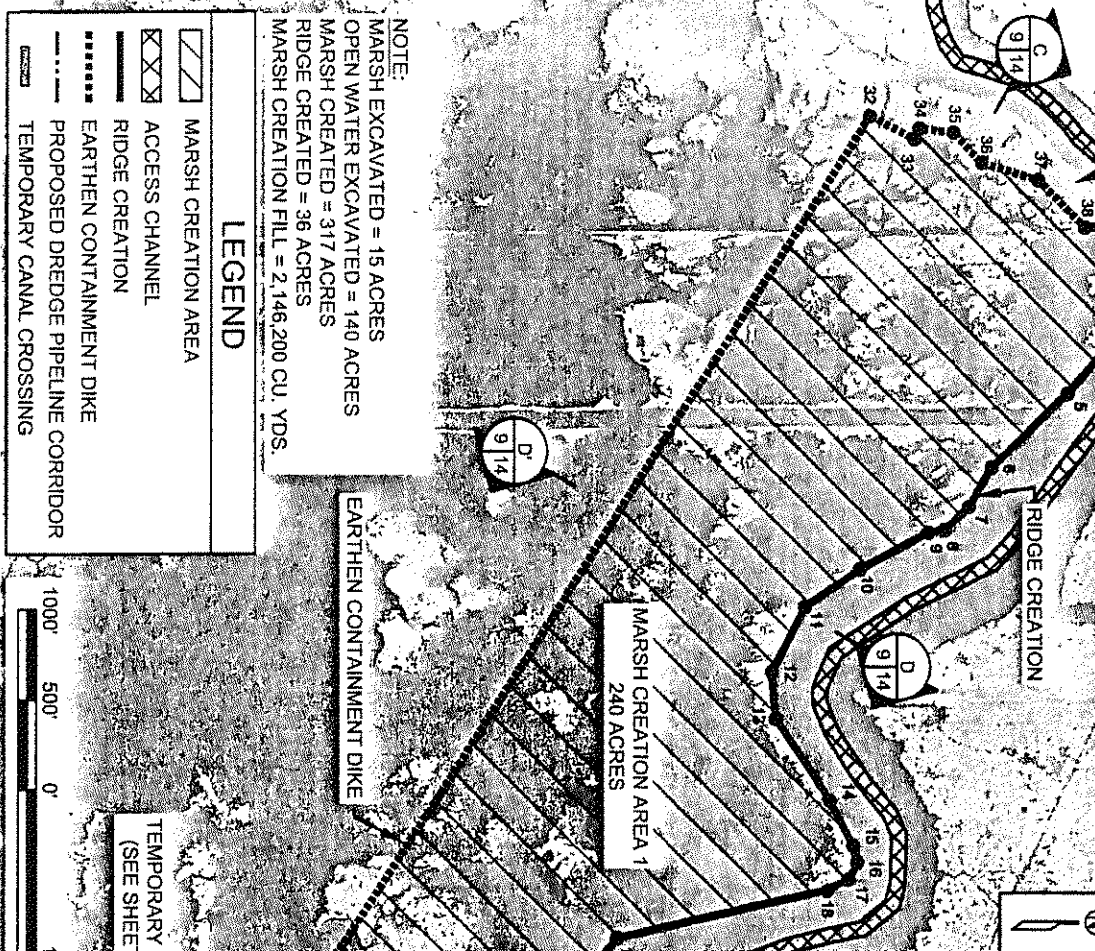
BAYOU DUPONT MARSH AND RIDGE CREATION

DREDGE PIPELINE CORRIDOR LAYOUT

DRAWN BY: KRISTI CANTU
DESIGNED BY: RUSS JOFFRION, P.E.
APPROVED BY: MAURY CHATELIER, P.E.
STATE PROJECT NUMBER: BA-48
FEDERAL PROJECT NUMBER: BA-48
DATE: JULY 2011
SHEET 8 OF 35

CULTURAL RESOURCES BUFFER

NOTE: BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.



NOTE:
 MARSH EXCAVATED = 15 ACRES
 OPEN WATER EXCAVATED = 140 ACRES
 MARSH CREATED = 317 ACRES
 RIDGE CREATED = 36 ACRES
 MARSH CREATION FILL = 2,146,200 CU. YDS.

LEGEND

- MARSH CREATION AREA
- ACCESS CHANNEL
- RIDGE CREATION
- EARTHEN CONTAINMENT DIKE
- PROPOSED DREDGE PIPELINE CORRIDOR
- TEMPORARY CANAL CROSSING

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

MARSH CREATION AREA LAYOUT

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

SHEET 9 OF 35

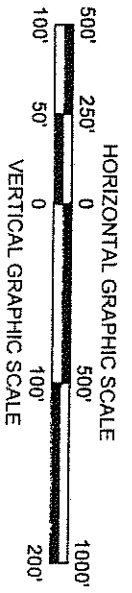
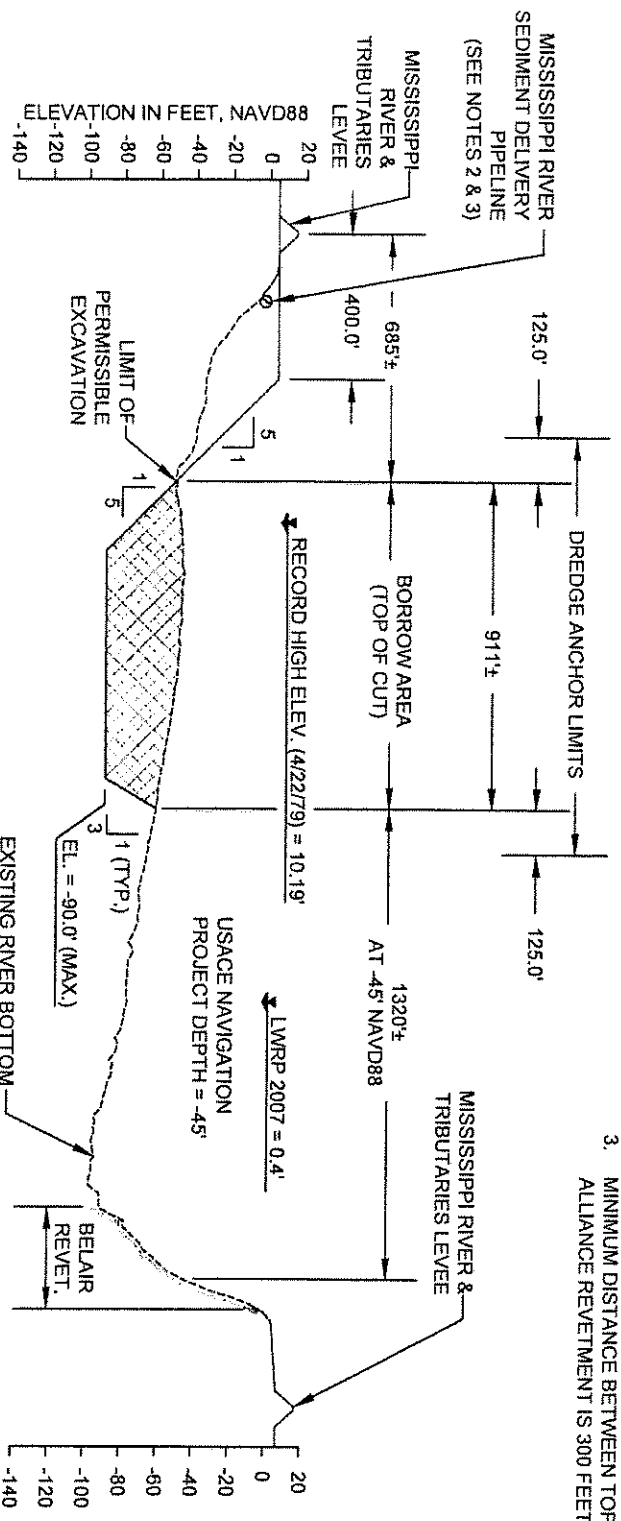
STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

FILL AREAS 1 AND 2

PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE
1	29° 38' 04.94"	90° 02' 58.22"	21	29° 37' 31.59"	90° 02' 05.67"	41	29° 37' 23.15"	90° 01' 51.54"
2	29° 38' 04.77"	90° 02' 56.84"	22	29° 37' 31.97"	90° 02' 04.39"	42	29° 37' 22.81"	90° 01' 50.60"
3	29° 38' 04.17"	90° 02' 54.90"	23	29° 37' 32.22"	90° 02' 03.67"	43	29° 37' 22.24"	90° 01' 48.69"
4	29° 38' 02.90"	90° 02' 51.46"	24	29° 37' 30.66"	90° 02' 03.30"	44	29° 37' 22.71"	90° 01' 46.24"
5	29° 38' 00.10"	90° 02' 48.60"	25	29° 37' 25.84"	90° 01' 58.85"	45	29° 37' 22.80"	90° 01' 43.63"
6	29° 37' 55.90"	90° 02' 44.02"	26	29° 37' 24.40"	90° 01' 56.38"	46	29° 37' 20.49"	90° 01' 39.34"
7	29° 37' 54.63"	90° 02' 41.59"	27	29° 37' 25.04"	90° 01' 54.31"	47	29° 37' 18.83"	90° 01' 35.97"
8	29° 37' 53.28"	90° 02' 40.16"	28	29° 37' 24.20"	90° 01' 55.65"	48	29° 37' 15.43"	90° 01' 33.61"
9	29° 37' 52.37"	90° 02' 38.99"	29	29° 37' 22.63"	90° 01' 56.47"	49	29° 37' 13.02"	90° 01' 27.66"
10	29° 37' 48.64"	90° 02' 37.73"	30	29° 37' 20.74"	90° 01' 55.37"	50	29° 37' 12.91"	90° 01' 25.66"
11	29° 37' 45.58"	90° 02' 35.39"	31	29° 37' 12.11"	90° 02' 00.82"	51	29° 37' 12.06"	90° 01' 25.85"
12	29° 37' 43.73"	90° 02' 31.35"	32	29° 37' 49.45"	90° 03' 06.026"	52	29° 37' 08.46"	90° 01' 26.21"
13	29° 37' 43.90"	90° 02' 28.38"	33	29° 37' 51.84"	90° 03' 04.56"	53	29° 37' 04.92"	90° 01' 26.92"
14	29° 37' 46.63"	90° 02' 23.19"	34	29° 37' 52.11"	90° 03' 05.24"	54	29° 37' 03.24"	90° 01' 36.13"
15	29° 37' 48.09"	90° 02' 20.36"	35	29° 37' 54.00"	90° 03' 04.96"	55	29° 37' 05.92"	90° 01' 37.59"
16	29° 37' 48.30"	90° 02' 19.30"	36	29° 37' 55.53"	90° 03' 03.05"	56	29° 37' 06.19"	90° 01' 39.90"
17	29° 37' 47.85"	90° 02' 18.26"	37	29° 37' 58.64"	90° 03' 01.94"	57	29° 37' 11.24"	90° 01' 58.66"
18	29° 37' 46.64"	90° 02' 17.52"	38	29° 38' 01.74"	90° 02' 58.96"	58	29° 37' 18.70"	90° 01' 54.94"
19	29° 37' 35.01"	90° 02' 14.66"	39	29° 38' 02.82"	90° 02' 59.09"			
20	29° 37' 31.13"	90° 02' 09.23"	40	29° 37' 24.26"	90° 01' 52.18"			

- NOTES:**
1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.
 2. RIVER BOTTOM PROFILE BASED ON SURVEY DONE ON AUGUST 17, 2011.
 3. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVELTMENT IS 300 FEET.



LEGEND

	EXISTING RIVER BOTTOM
	BORROW AREA

- DREDGING NOTES:**
1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS. ANCHORING BEYOND THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
 2. THE DREDGE ANCHOR LIMIT COORDINATES, POINTS A AND B, AND ALL DREDGE ANCHORS SHALL BE MARKED WITH BUOYS DURING DREDGING OPERATIONS.
 3. THE CONTRACTOR WILL BE REQUIRED TO STAY WITHIN THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
 4. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND MNSA DELINEATING THE LOCATION OF THE DREDGE ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE OWNER SPECIFICATIONS.

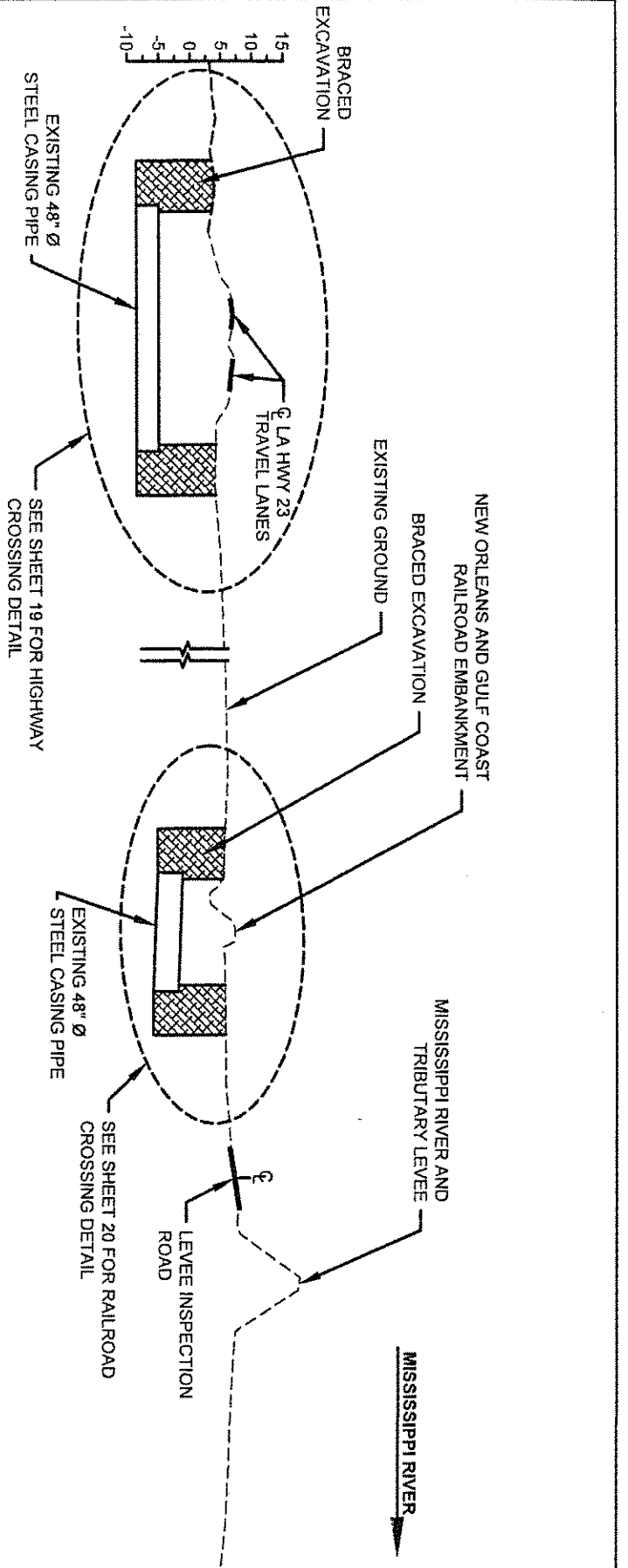
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICES
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA, 70801

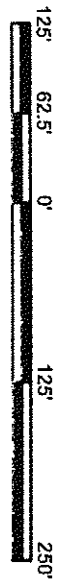
BAYOU DUPONT MARSH AND RIDGE CREATION

TYPICAL SECTION

DESIGNED BY: KRISTI CANTU
 DESIGNED BY: RUSS JOFFRION, P.E.
 APPROVED BY: MAURY CHATELIER, P.E.
 STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48
 DATE: JULY 2011 (MOD DEC. 12, 2012)
 SHEET 10 OF 35



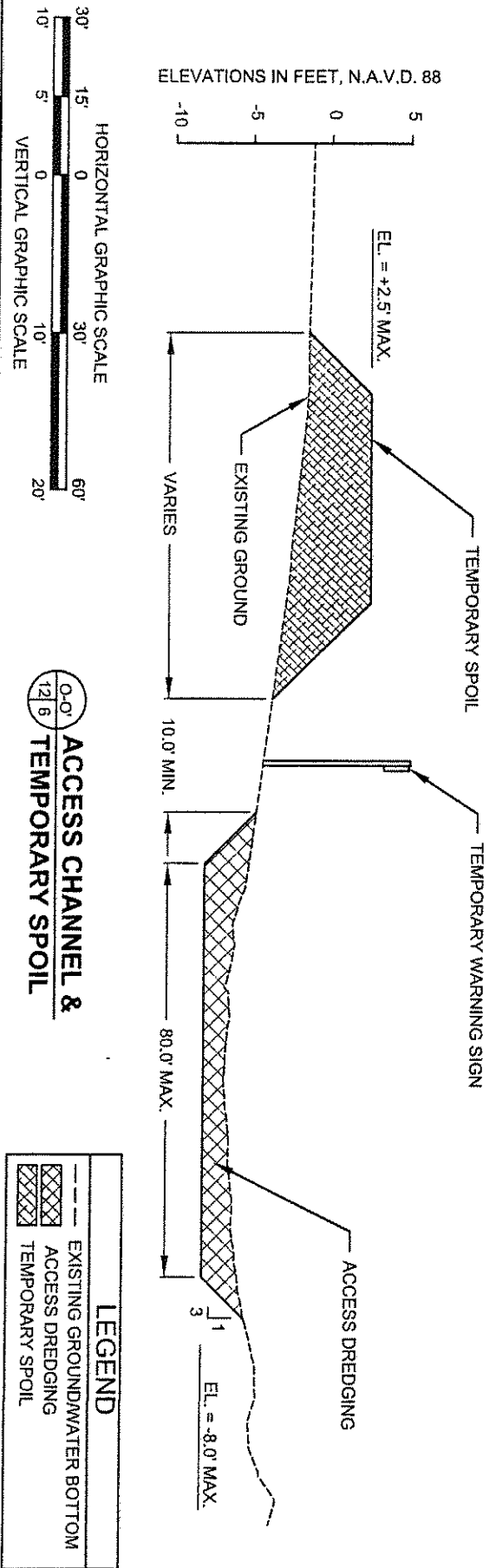
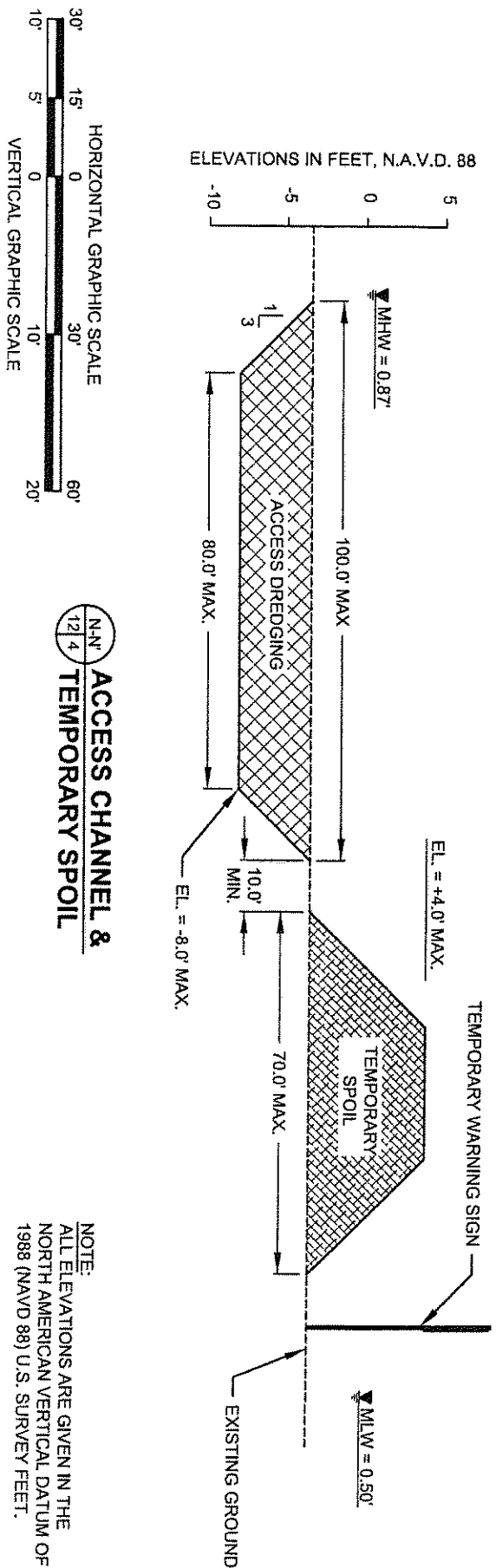
**B-8
11/8
DREDGE PIPELINE CORRIDOR
HIGHWAY & RAILROAD CROSSING**



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

LEGEND	
	EXISTING GROUND
	BRACED EXCAVATION

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	TYPICAL SECTIONS DATE: JULY 2011 (MOD. 11/15/12) SHEET 11 OF 36
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.	FEDERAL PROJECT NUMBER: BA-48	SHEET 11 OF 36



LEGEND	
	EXISTING GROUND/WATER BOTTOM
	ACCESS DREDGING
	TEMPORARY SPOIL

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

TYPICAL SECTIONS

DRAWN BY: KRISTI GANTU

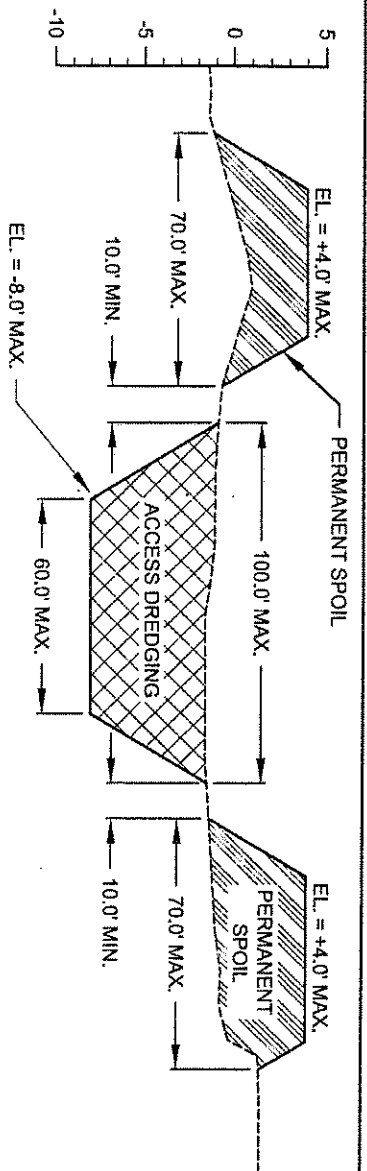
DESIGNED BY: RUSS JOEFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

STATE PROJECT NUMBER: BA-48

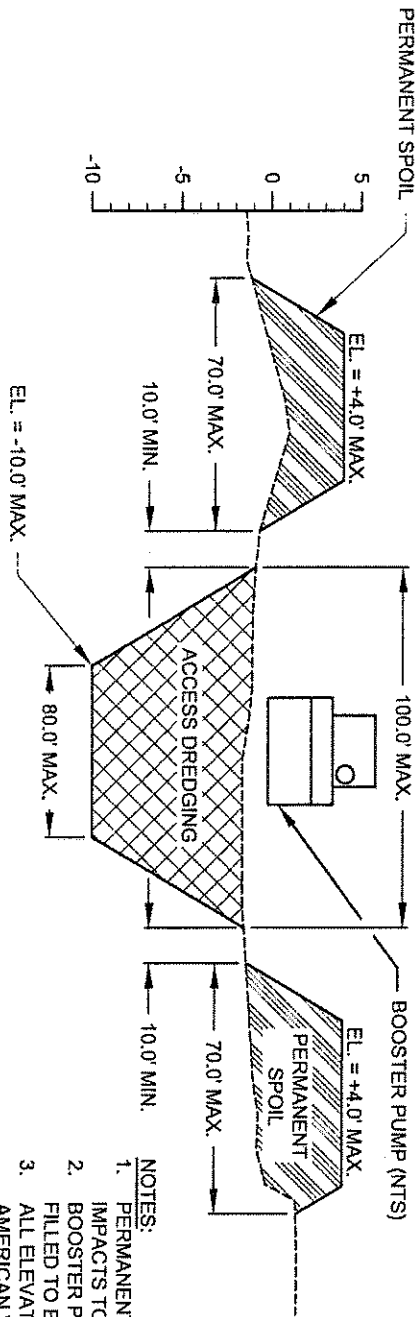
FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011

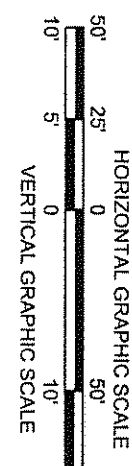
SHEET 12 OF 35



ACCESS CHANNEL & PERMANENT SPOIL



- NOTES:**
1. PERMANENT SPOIL TO BE PLACED TO AVOID IMPACTS TO EXISTING MARSH;
 2. BOOSTER PUMP LOCATION TO BE BACK FILLED TO ELEVATION -8.0' NAVD88.
 3. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.



ACCESS CHANNEL FOR BOOSTER PUMP

LEGEND

	EXISTING GROUND/WATER BOTTOM
	ACCESS DREDGING
	PERMANENT SPOIL

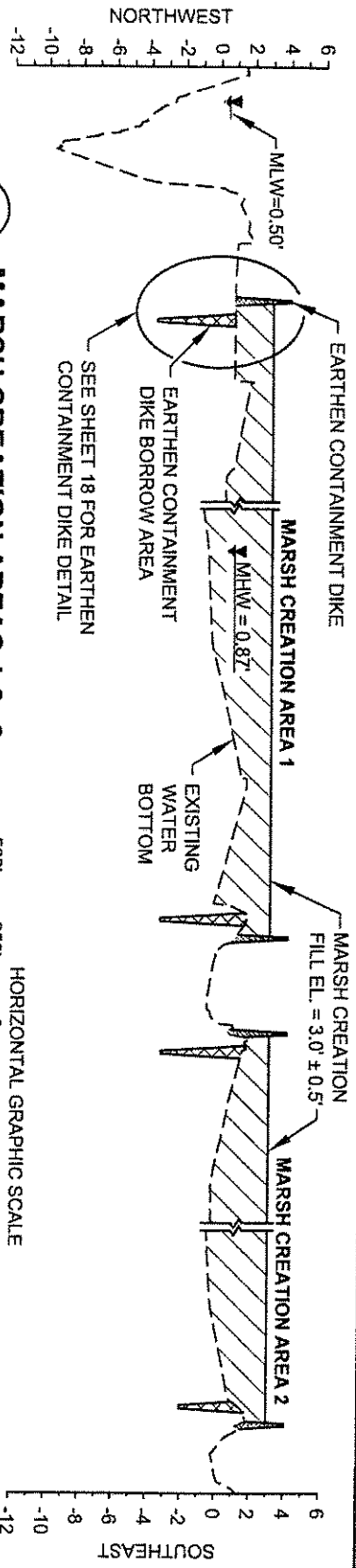
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 151 SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

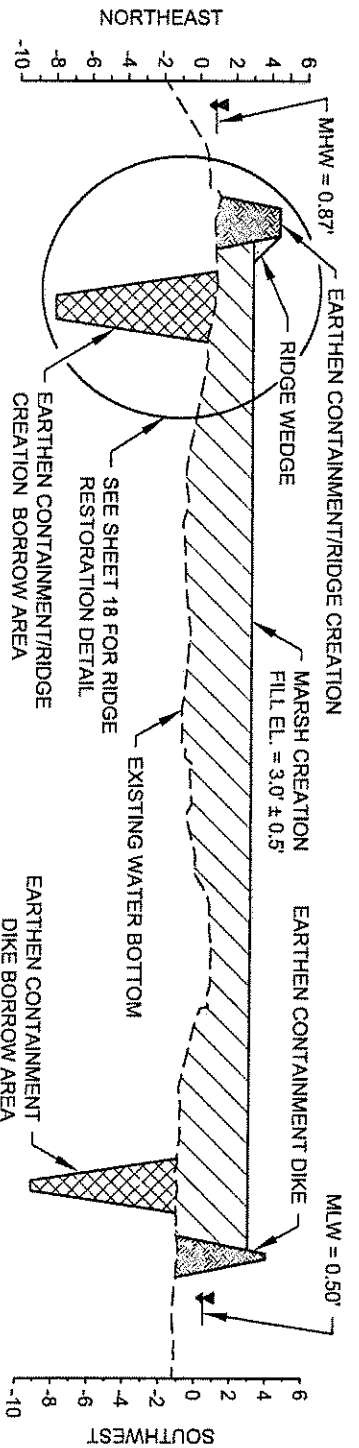
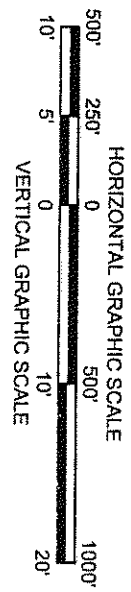
TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
	FEDERAL PROJECT NUMBER: BA-48		SHEET 13 OF 35



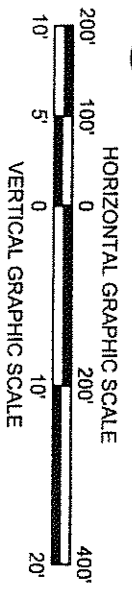
C-C
14 9

MARSH CREATION AREAS 1 & 2



D-D
14 9

MARSH CREATION AREA 1



LEGEND	
	EXISTING GROUND/WATER BOTTOM
	BORROW AREA
	EARTHEN CONTAINMENT/RIDGE CREATION
	MARSH FILL
	RIDGE WEDGE

NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

TYPICAL SECTIONS

STATE PROJECT NUMBER: BA-48

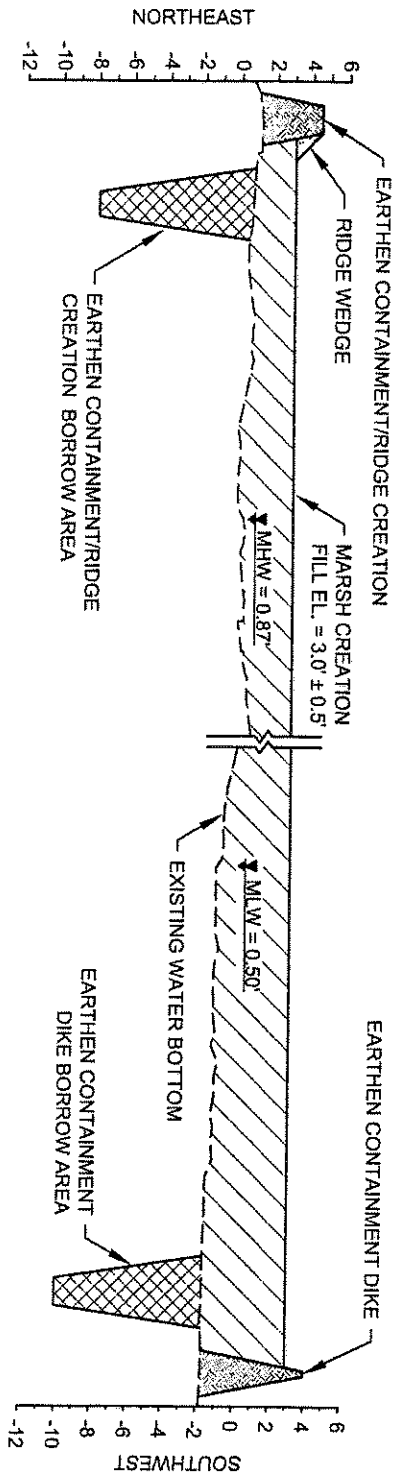
DATE: JULY 2011

DRAWN BY: KRISTI CANTU

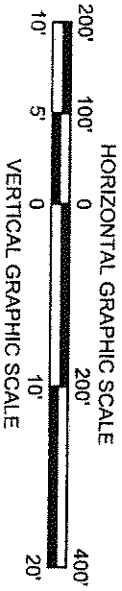
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

SHEET 14 OF 35



MARSH CREATION AREA 2



LEGEND	
	EXISTING GROUND/WATER BOTTOM
	BORROW AREA
	EARTHEN CONTAINMENT/RIDGE CREATION
	MARSH FILL
	RIDGE WEDGE

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

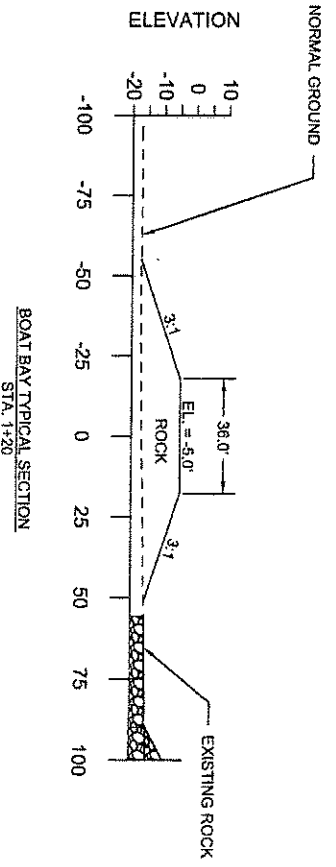
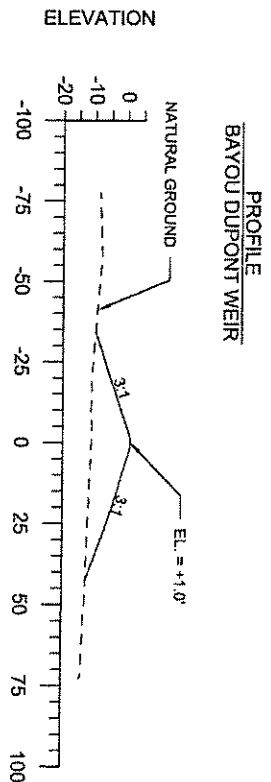
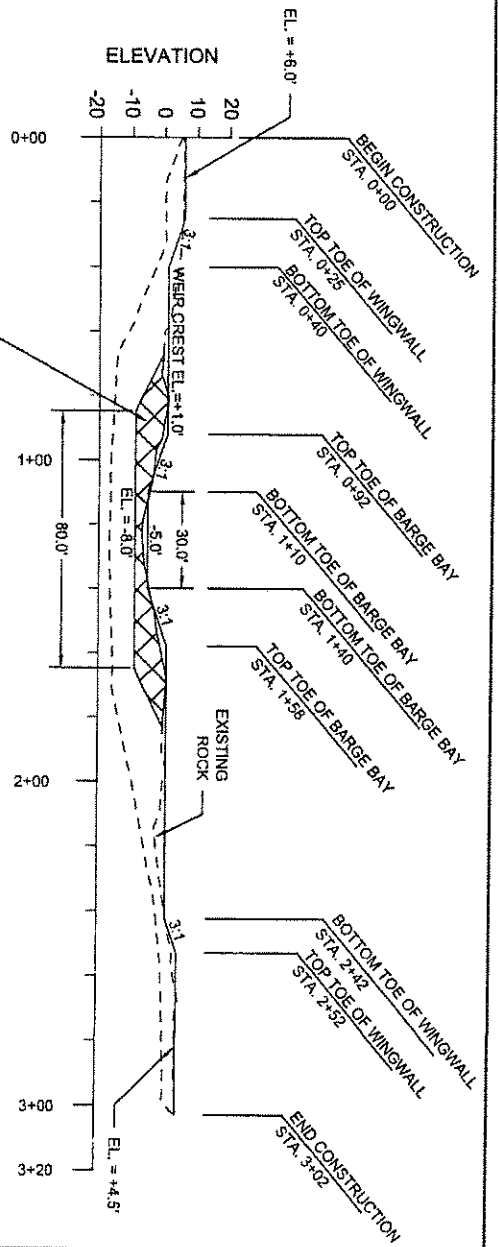
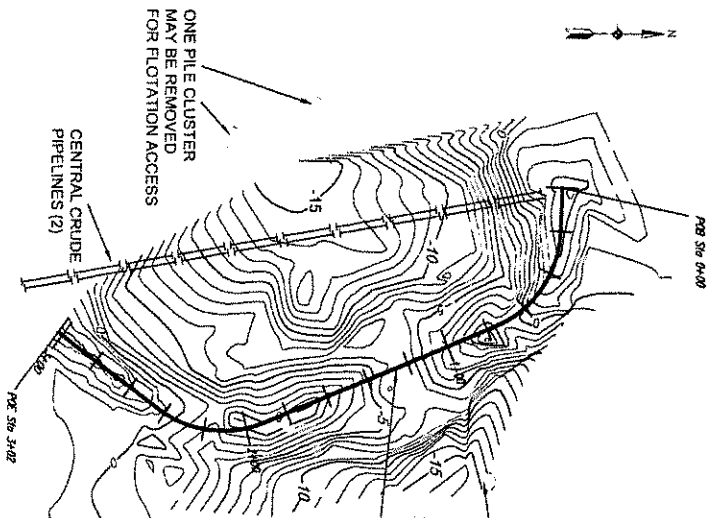
FEDERAL PROJECT NUMBER: BA-48

SHEET 15 OF 35

STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

- NOTES:
1. MATERIALS REMOVED BY OTHERS FOR ACCESS.
 2. THE WEIR SHALL BE RECONSTRUCTED AS SHOWN.
 3. SEE SHEET 33 FOR BUOY & SIGN DETAILS.



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

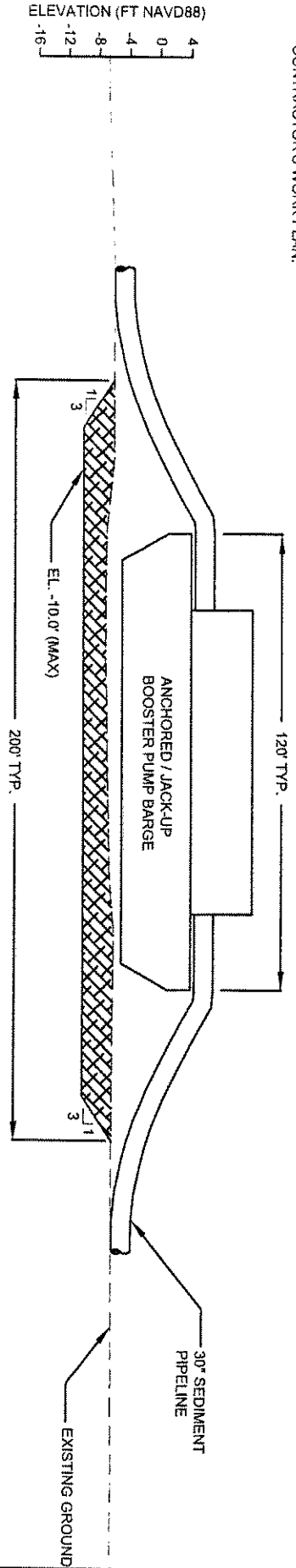
COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUNEL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

BAYOU DUPONT WEIR DETAILS

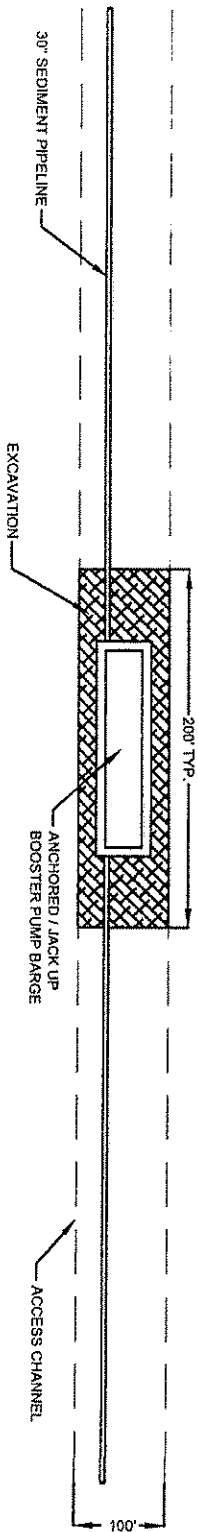
DRAWN BY: KRISTI CANTU DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E. STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48 DATE: JULY 2011 SHEET 16 OF 35

- NOTES:
1. BARGE ANCHORS OR JACK-UP LEGS SHALL NOT BE PLACED WITHIN 50' OF ANY EXISTING PIPELINES OR UTILITIES.
 2. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.



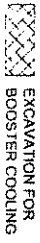
BOOSTER PUMP LOCATION PROFILE SECTION

NOT TO SCALE



BOOSTER PUMP LOCATION PLAN VIEW

NOT TO SCALE



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

BOOSTER PUMP SITE TYPICAL DETAILS

STATE PROJECT NUMBER: BA-48

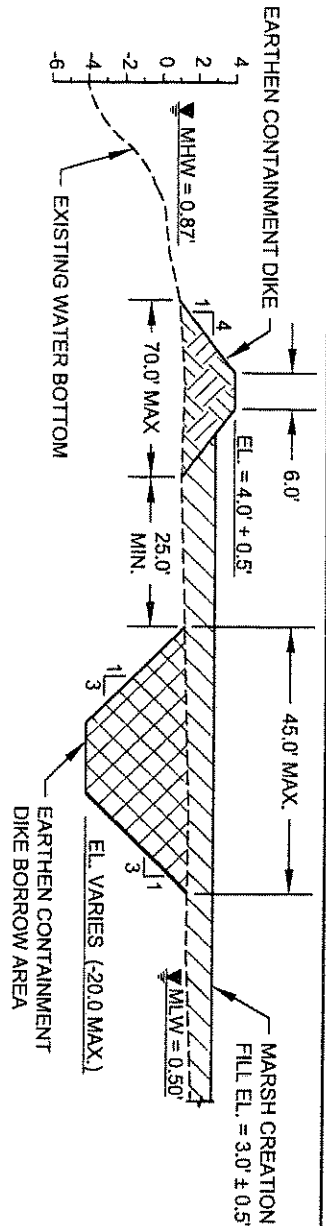
DATE: JULY 2011

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. | APPROVED BY: MAURY CHATELLEIR, P.E.

FEDERAL PROJECT NUMBER: BA-48

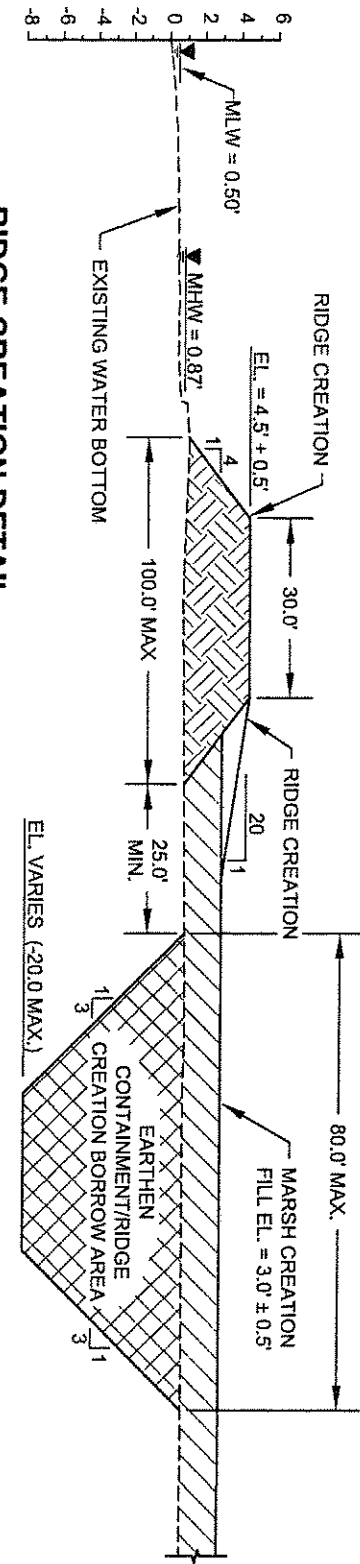
SHEET 17 OF 35



EARTHEN CONTAINMENT DIKE DETAIL

HORIZONTAL GRAPHIC SCALE
 30' 15' 0 30' 60'
 10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE



RIDGE CREATION DETAIL

HORIZONTAL GRAPHIC SCALE
 30' 15' 0 30' 60'
 10' 5' 0 10' 20'

VERTICAL GRAPHIC SCALE

LEGEND	
	EXISTING GROUND/WATER BOTTOM
	MARSH CREATION (FILL)
	EARTHEN CONTAINMENT/RIDGE CREATION
	RIDGE CREATION
	BORROW AREA

NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

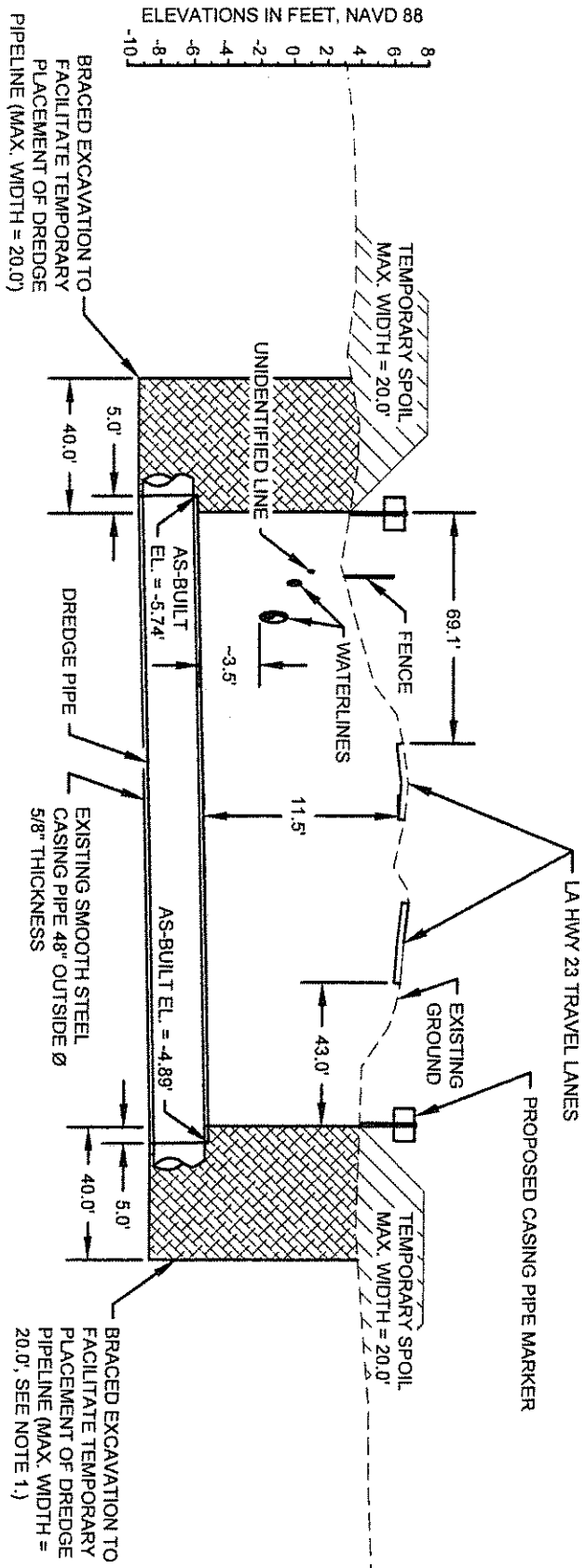
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSI, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

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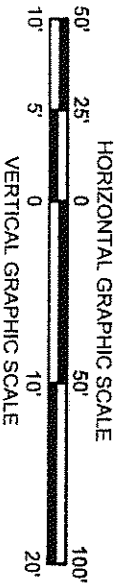
BAYOU DUPONT MARSH AND RIDGE CREATION

EARTHEN CONTAINMENT DIKE AND RIDGE DETAILS

DRAWN BY: KRISTI CANTU
 DESIGNED BY: RUSS JOFFRION, P.E.
 APPROVED BY: MAURY CHATELIER, P.E.
 STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48
 DATE: JULY 2011
 SHEET 18 OF 35



HIGHWAY CROSSING DETAIL



- NOTES:
1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
 2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
	EXISTING GROUND
	BRACED EXCAVATION

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

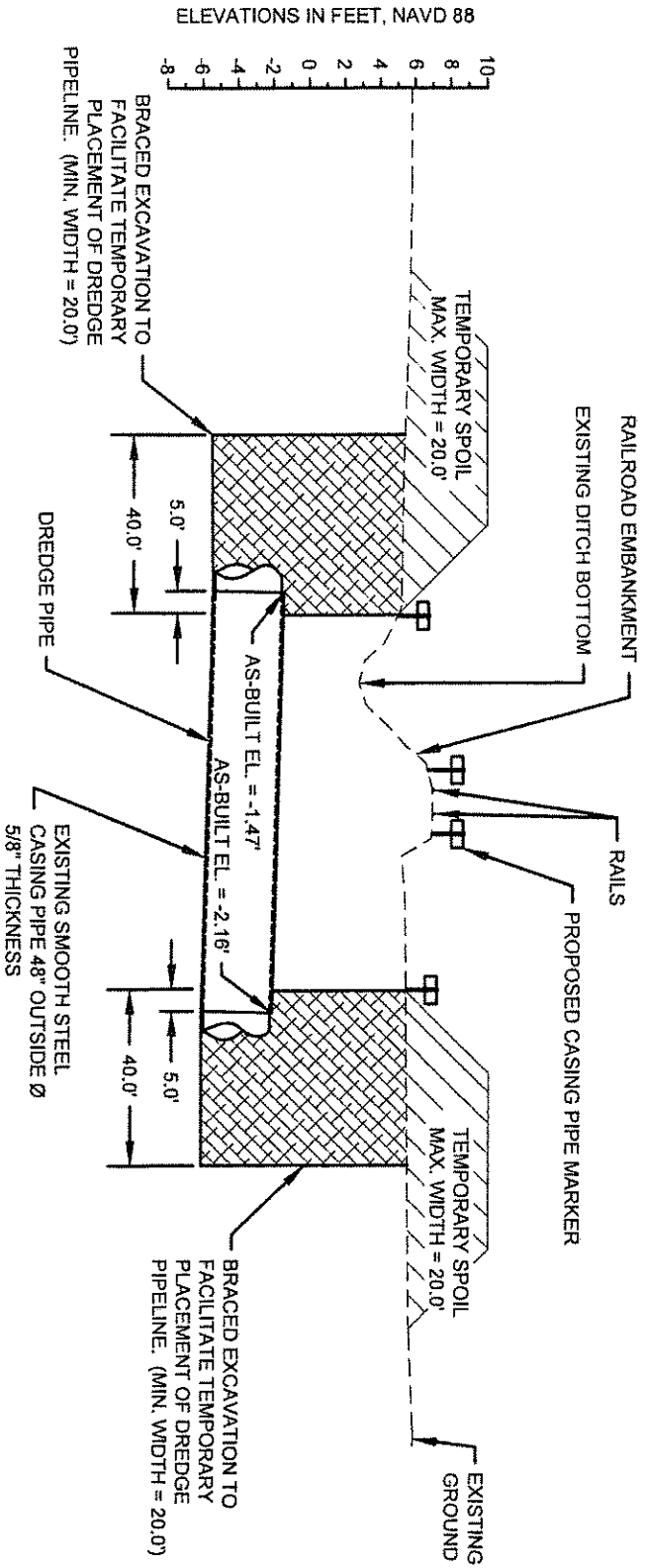
HIGHWAY CROSSING DETAIL

DRAWN BY: KRISTI CANTU

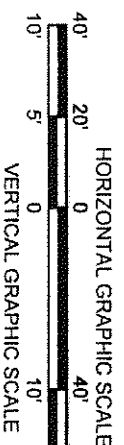
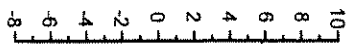
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLER, P.E.

STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011 (MOD. 11/15/12)
 SHEET 19 OF 35



ELEVATIONS IN FEET, NAVD 88



RAILROAD CROSSING DETAIL

- NOTES:
1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
 2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
	EXISTING GROUND
	BRACED EXCAVATION
	TEMPORARY SPOIL

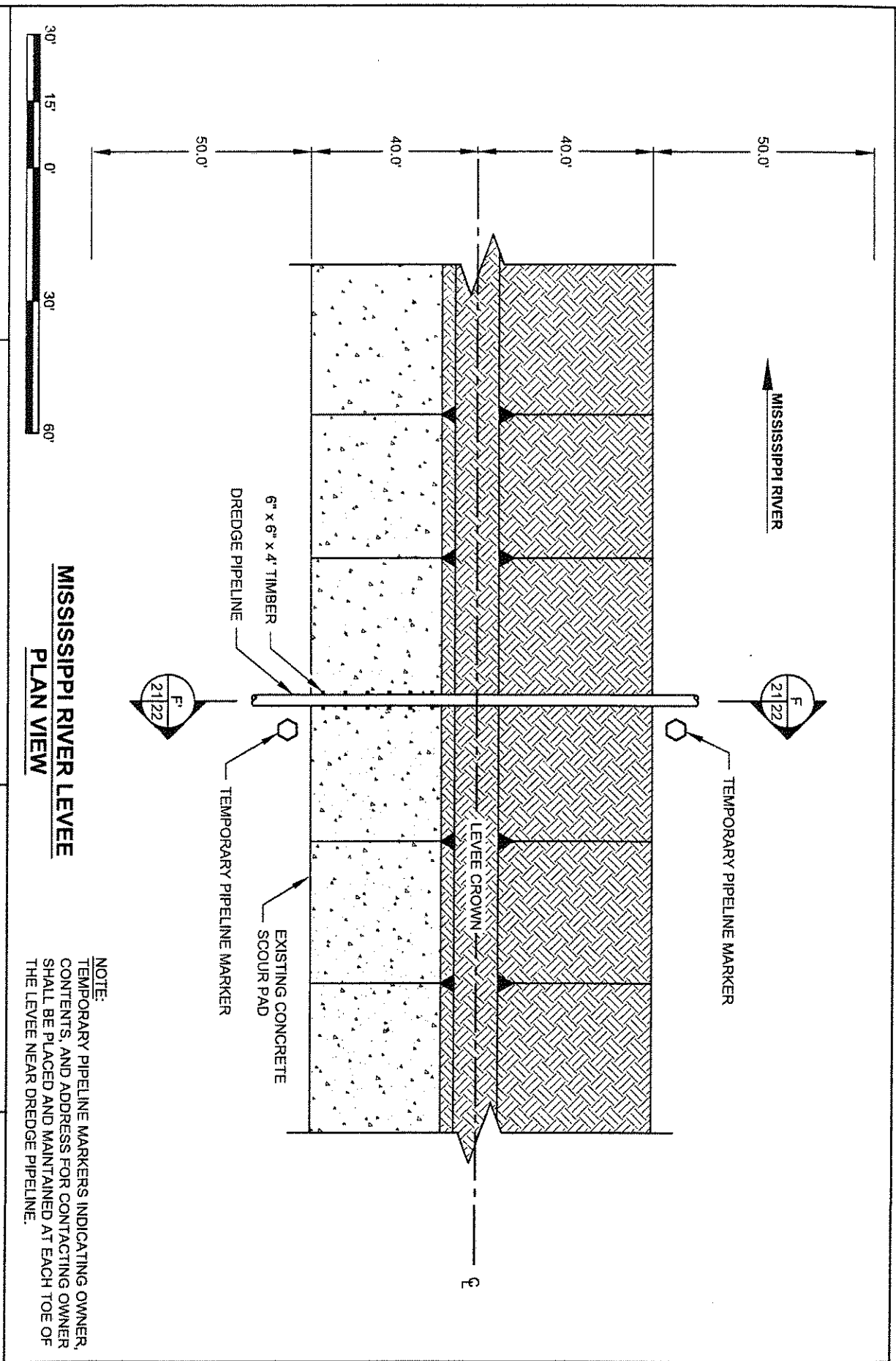
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

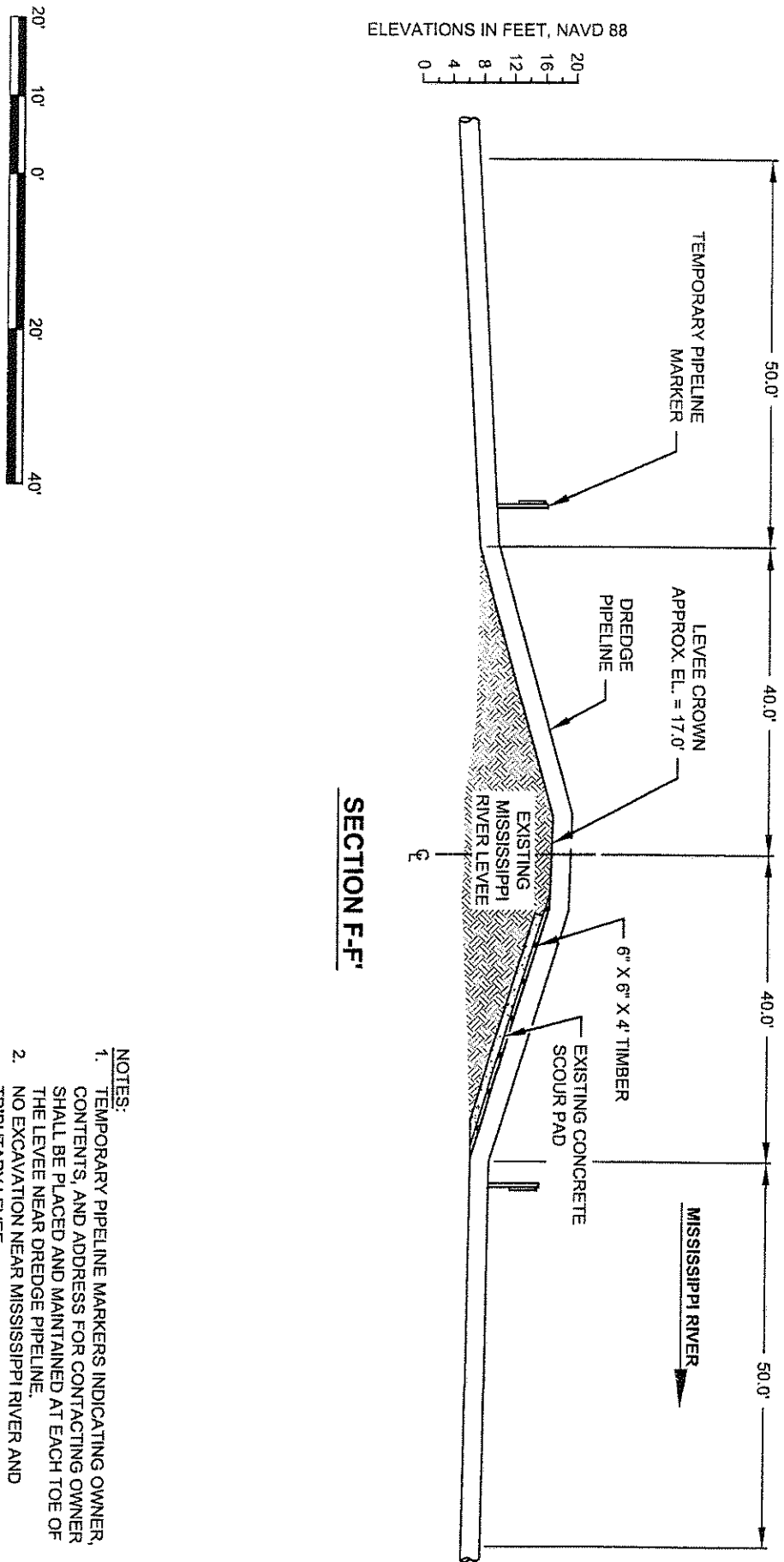
RAILROAD CROSSING DETAIL

DRAWN BY: KRISTI CANTU DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E. STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48 DATE: JULY 2014 (MOD. 11/15/12) SHEET 20 OF 35



DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 21 OF 35
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803		BAYOU DUPONT MARSH AND RIDGE CREATION	
COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801		MISSISSIPPI RIVER LEVEE CROSSING DETAIL	

ELEVATIONS IN FEET, NAVD 88



SECTION F-F'

- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER, SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.
 2. NO EXCAVATION NEAR MISSISSIPPI RIVER AND TRIBUTARY LEVEE.

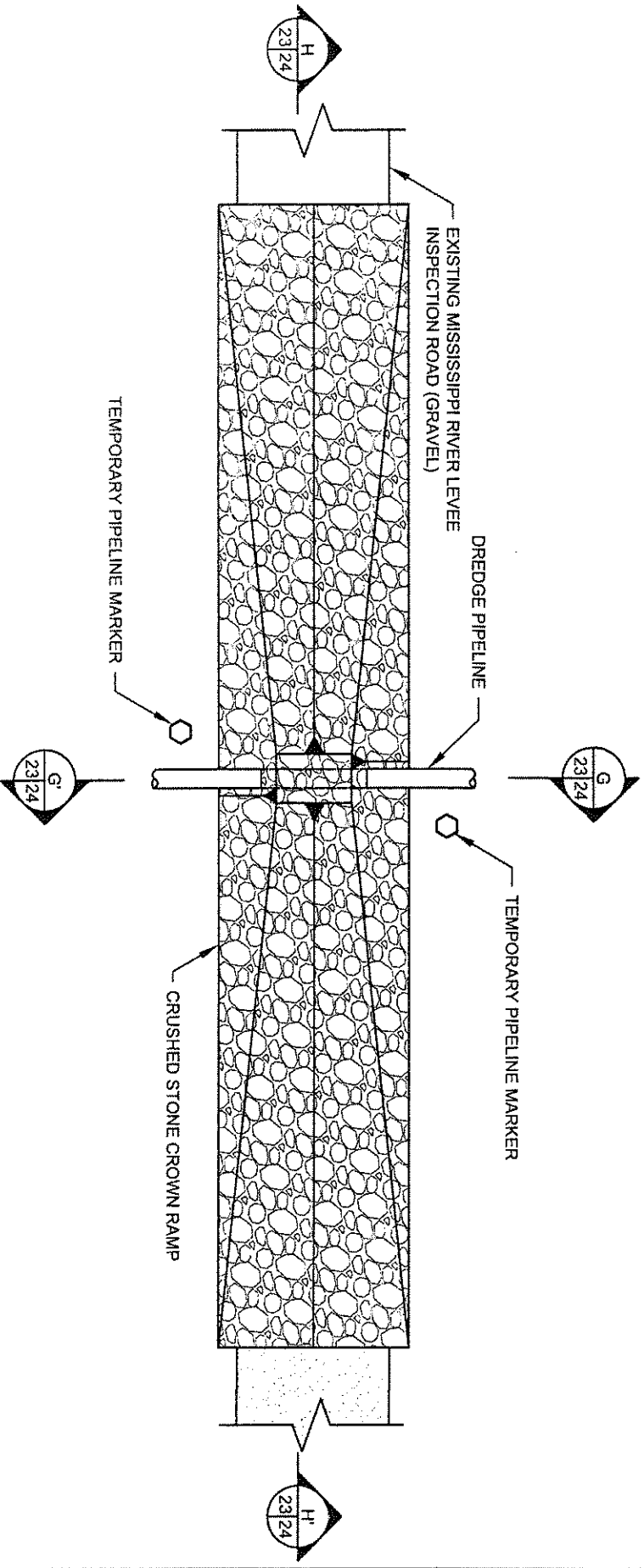
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICES
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

MISSISSIPPI RIVER LEVEE CROSSING DETAIL

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD DECEMBER 2011)
	FEDERAL PROJECT NUMBER: BA-48		SHEET 22 OF 35



**MISSISSIPPI RIVER LEVEE
INSPECTION ROAD
PLAN VIEW**

- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

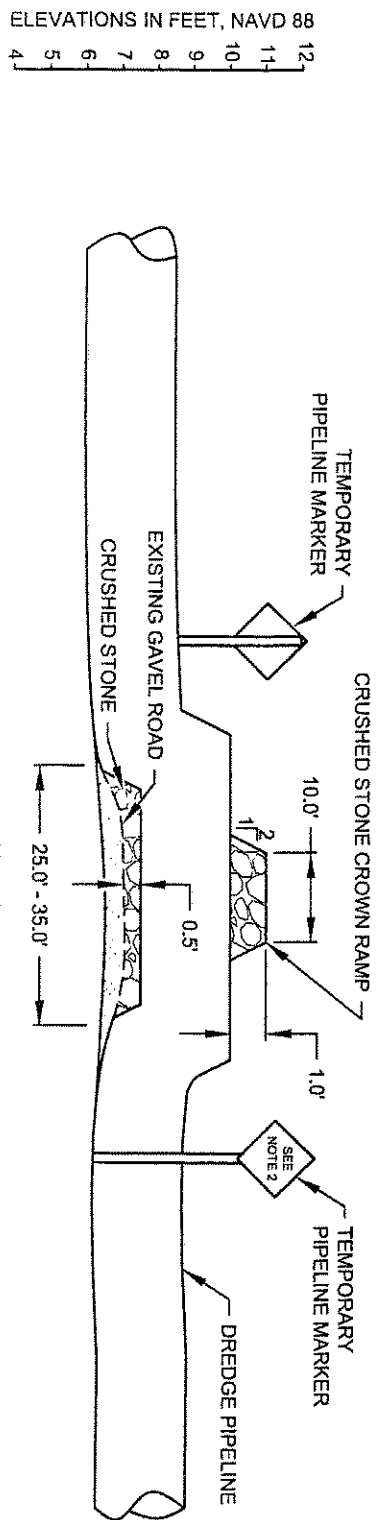
APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICES
LSU SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

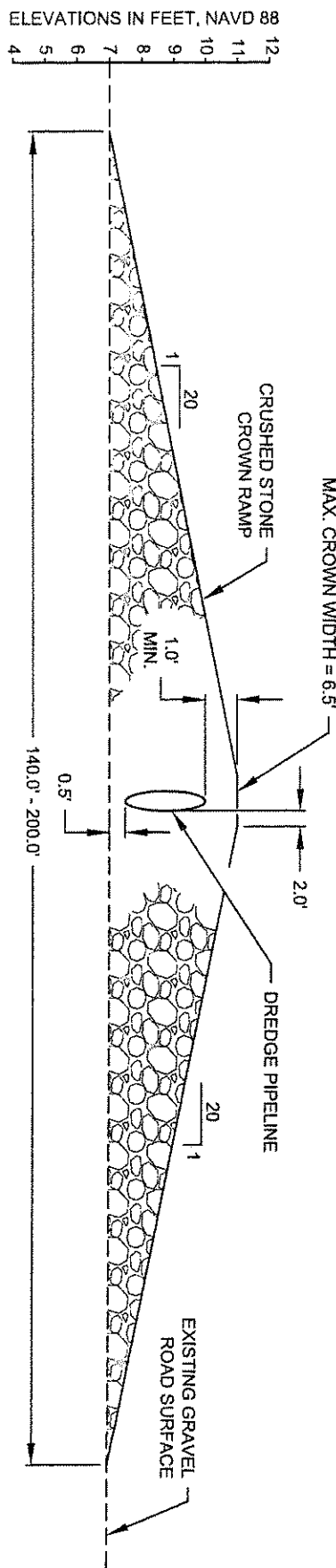
BAYOU DUPONT MARSH
AND RIDGE CREATION

LEVEE INSPECTION ROAD
CROSSING DETAIL

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48	SHEET 23 OF 35

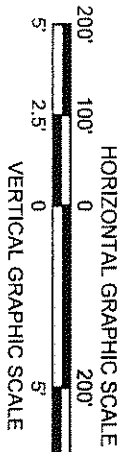


SECTION G-G'



SECTION H-H'

- NOTES:
- MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
 - TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

LEVEE INSPECTION ROAD CROSSING DETAILS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E.

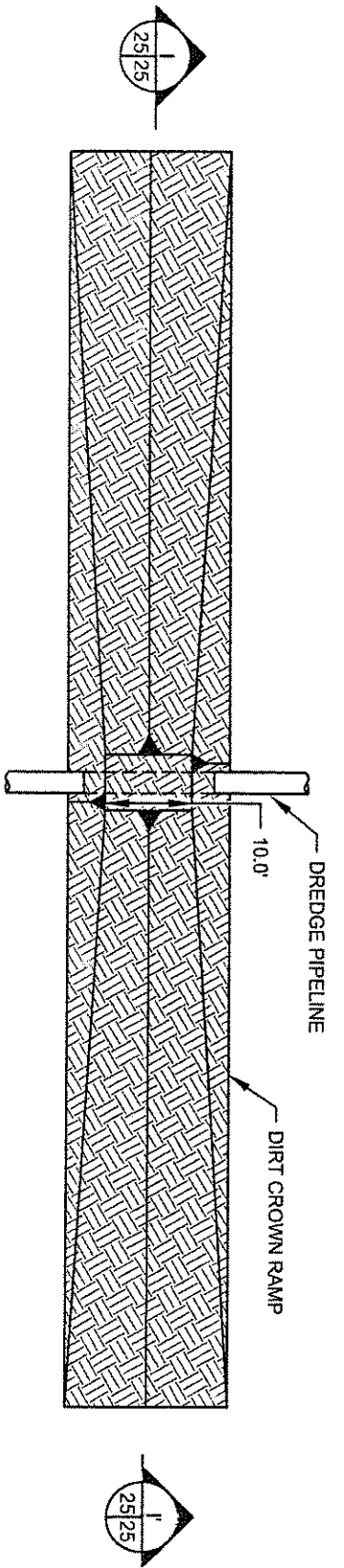
APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

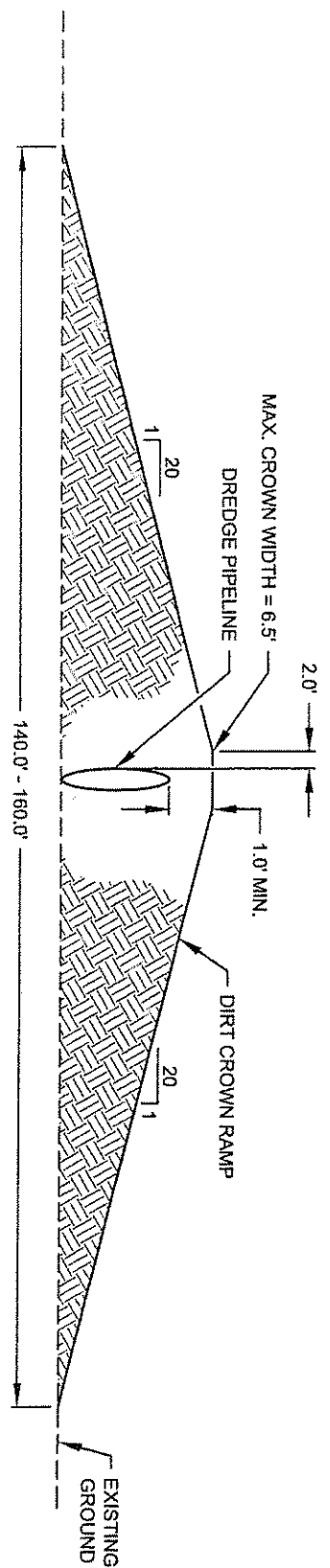
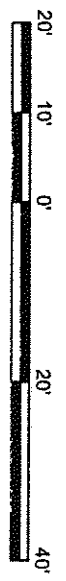
STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

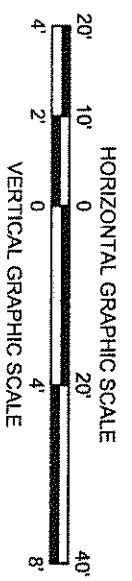
SHEET 24 OF 35



CATTLE CROSSING PLAN VIEW



SECTION I-I'



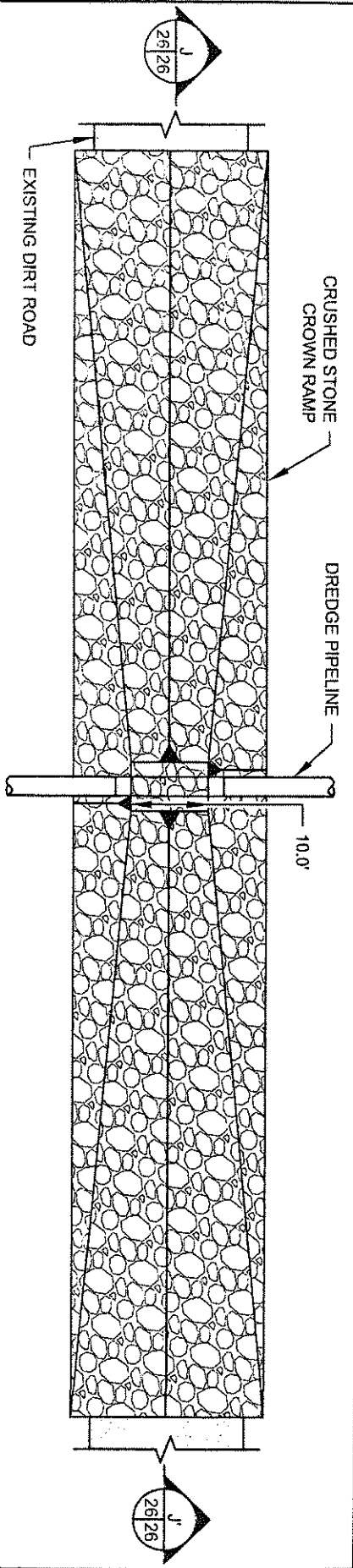
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

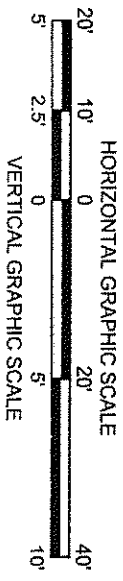
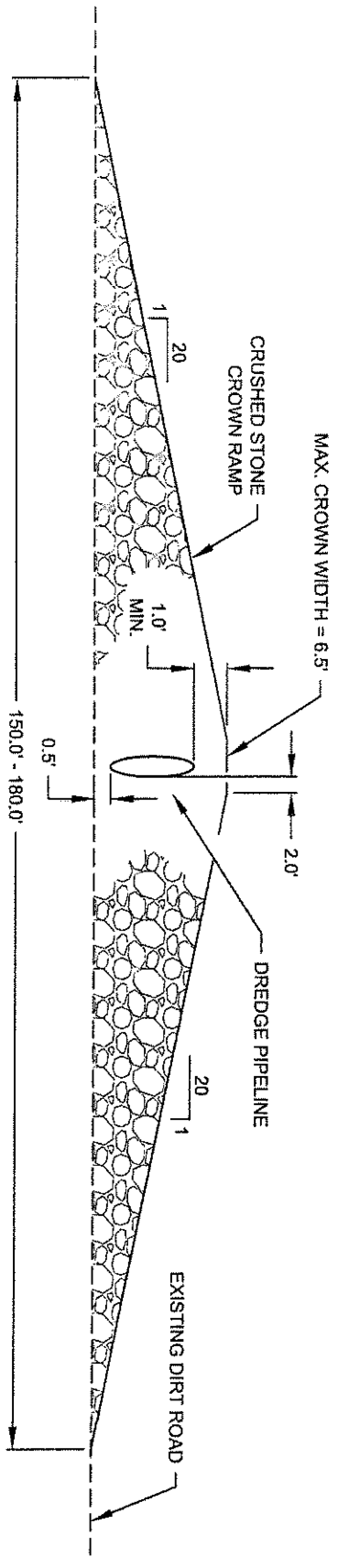
BAYOU DUPONT MARSH AND RIDGE CREATION

CATTLE CROSSING DETAILS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48	SHEET 25 OF 35



DIRT ROAD CROSSING
PLAN VIEW



SECTION J-J'

NOTE:
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).

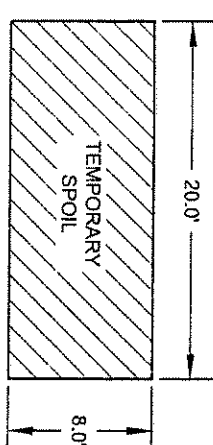
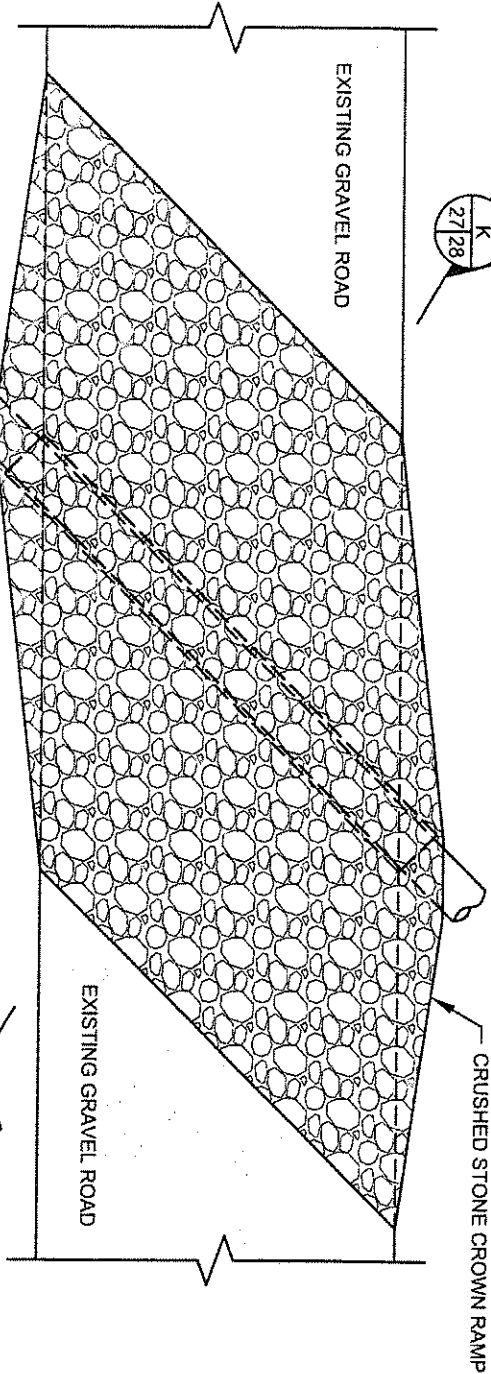
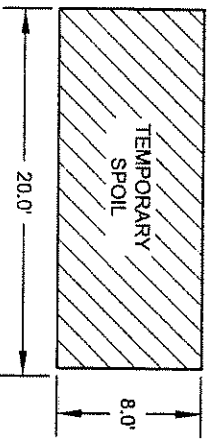
APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

DIRT ROAD CROSSING DETAILS

DRAWN BY: KRISTI CANTU DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E. STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48 DATE: JULY 2011 SHEET 26 OF 35



**GRAVEL ROAD CROSSING
PLAN VIEW**

- NOTES:
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. AFTER CONSTRUCTION THE DREDGE PIPELINE SHALL BE REMOVED AND THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO THE TRENCH. THE ROAD SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.



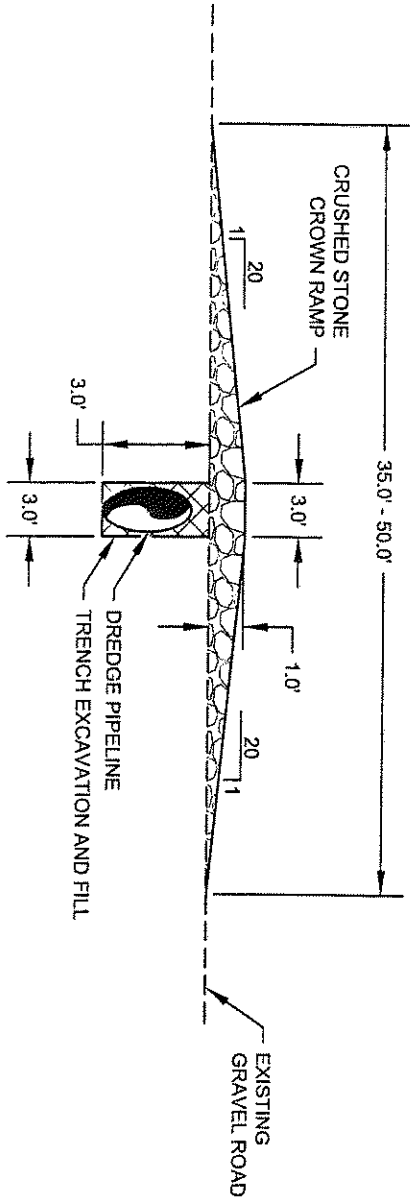
APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

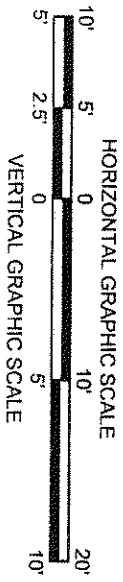
BAYOU DUPONT MARSH
AND RIDGE CREATION

GRAVEL ROAD
CROSSING DETAIL

DRAWN BY: KRISTI CANTU DESIGNED BY: RUSS JOFFERION, P.E. APPROVED BY: MAURY CHATELIER, P.E. STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48 DATE: JULY 2011 SHEET 27 OF 35



SECTION K-K



NOTE:
 THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 1514 SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

GRAVEL ROAD CROSSING DETAIL

STATE PROJECT NUMBER: BA-48

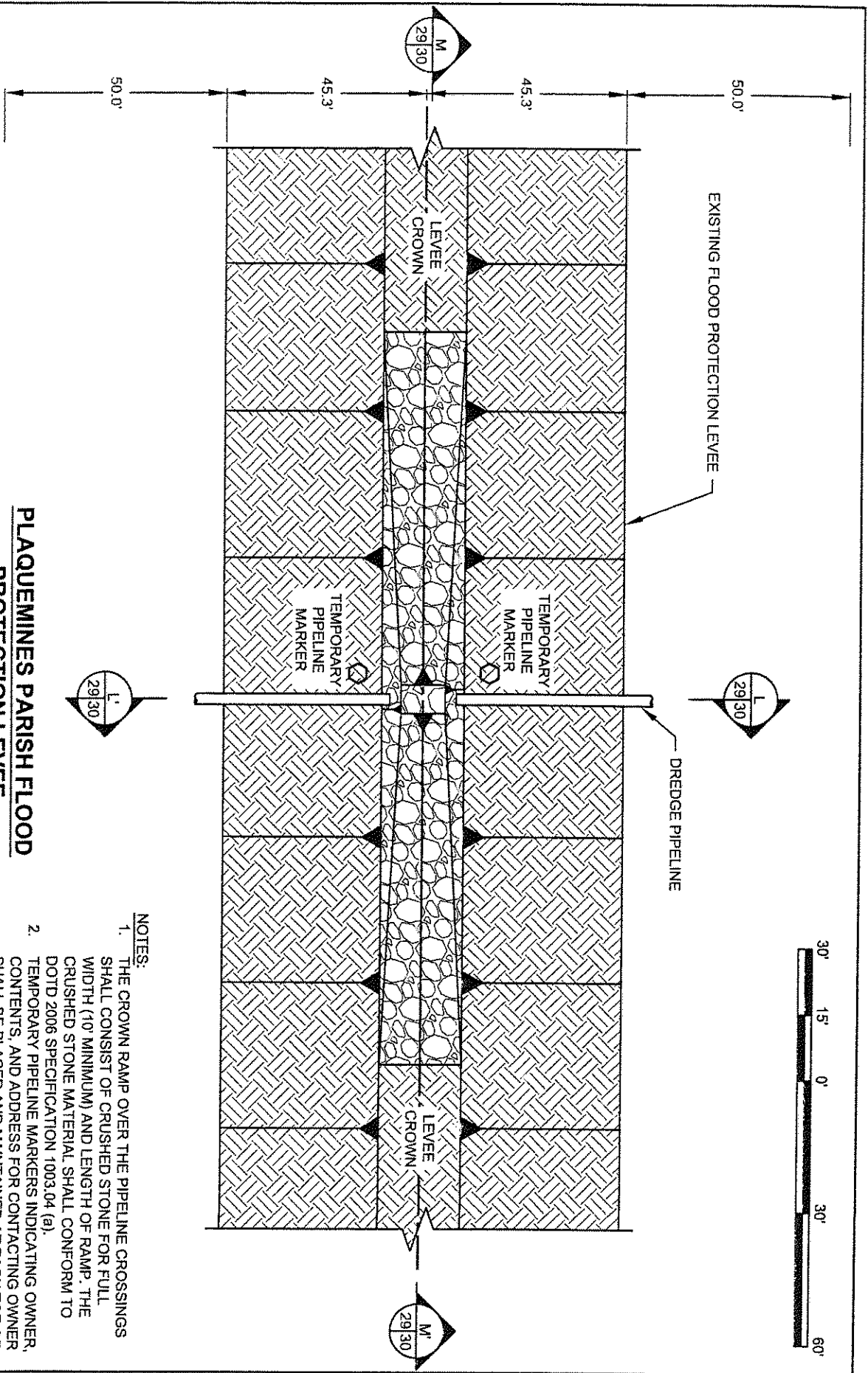
DATE: JULY 2011

FEDERAL PROJECT NUMBER: BA-48

SHEET 28 OF 35

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.



**PLAQUEMINES PARISH FLOOD
PROTECTION LEVEL**

- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER, SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH
AND RIDGE CREATION

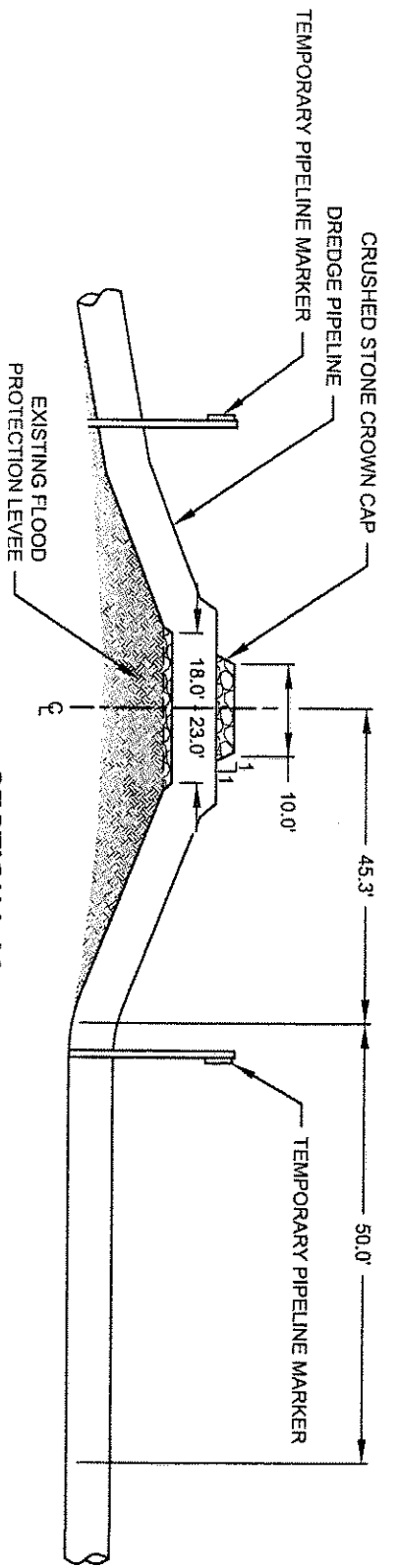
FLOOD PROTECTION LEVEL
CROSSING DETAILS

DRAWN BY: KRISTI CANTU

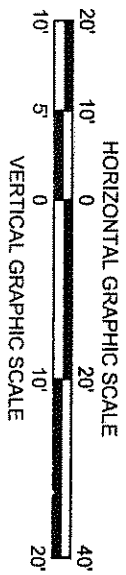
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

STATE PROJECT NUMBER: BA-48
FEDERAL PROJECT NUMBER: BA-48

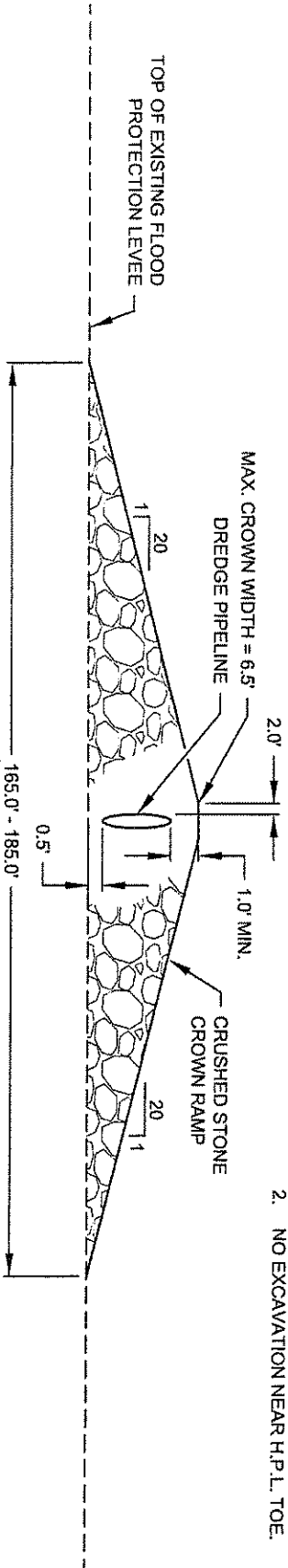
DATE: JUL Y 2011 (MOD DECEMBER 2011)
SHEET 29 OF 35



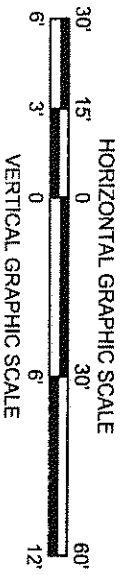
SECTION L-L'



- NOTES:
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR THE DREDGE PIPELINE.
 2. NO EXCAVATION NEAR H.P.L. TOE.



SECTION M-M'



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSI, SOUTH ST. PLUMBIER DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

FLOOD PROTECTION LEVEE CROSSING DETAILS

DRAWN BY: KRISTI CANTU

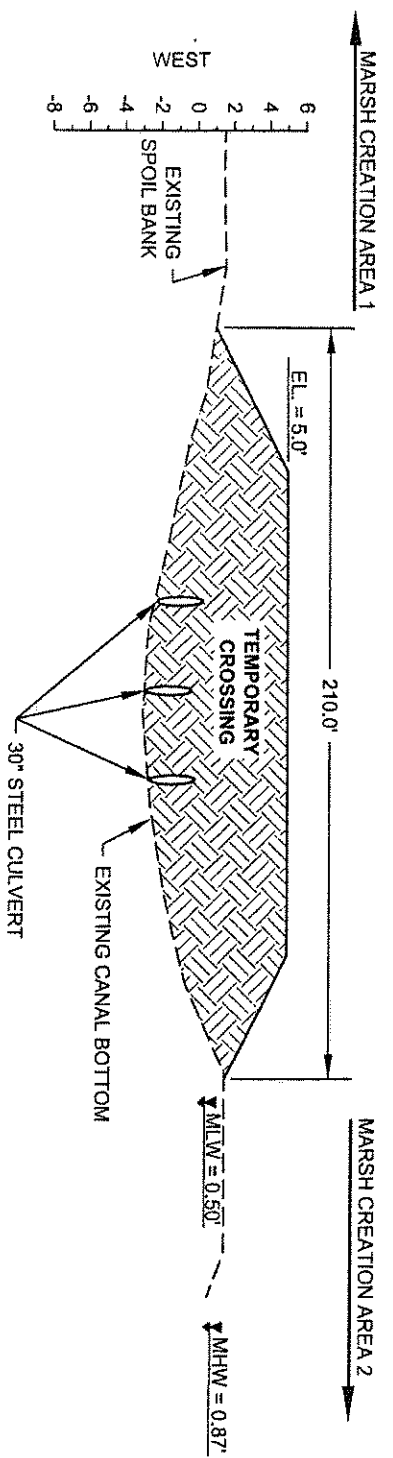
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

FEDERAL PROJECT NUMBER: BA-48

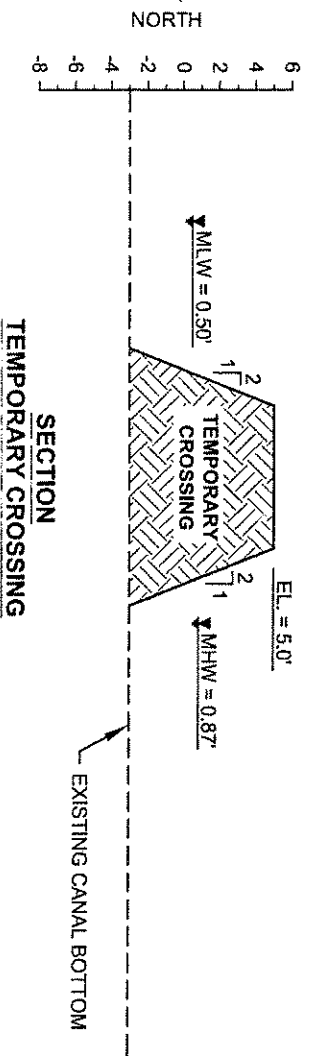
STATE PROJECT NUMBER: BA-48

DATE: JULY 2011 (MOD DECEMBER 2011)

SHEET 30 OF 35

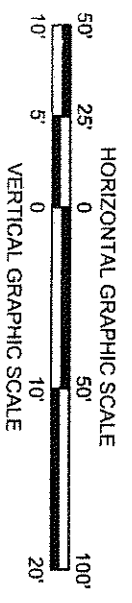


**PROFILE
TEMPORARY CROSSING**



**SECTION
TEMPORARY CROSSING**

- NOTES:**
1. THE TEMPORARY CROSSING SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
 2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.



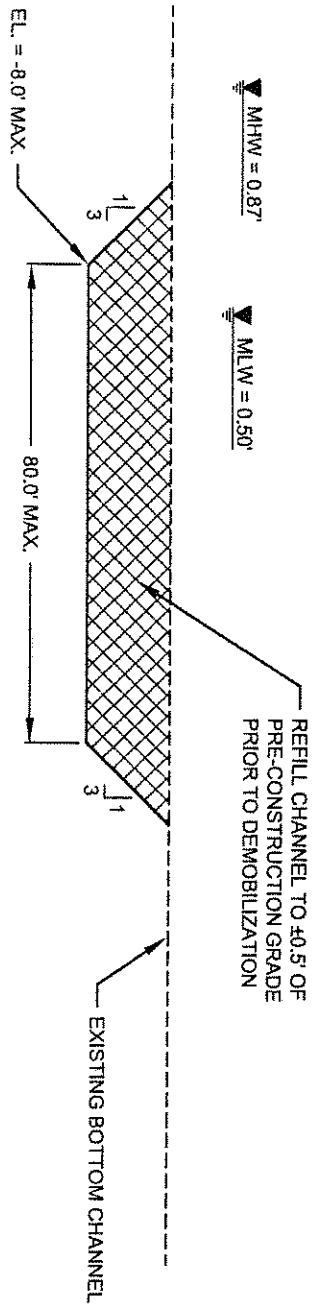
APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

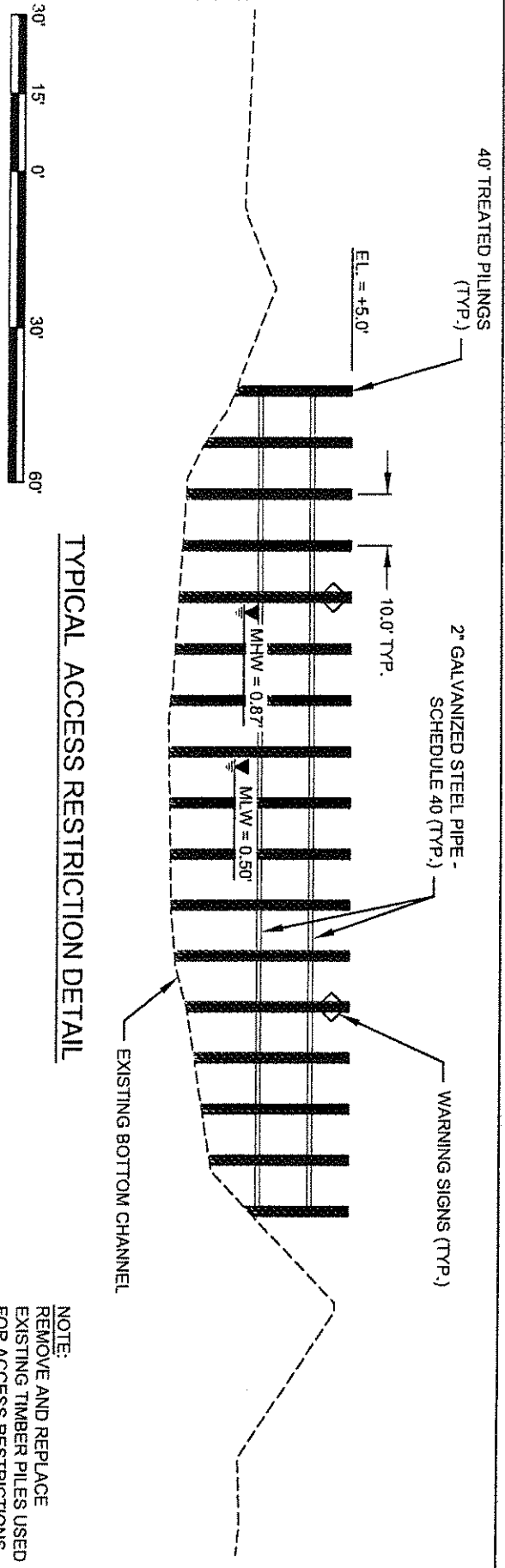
BAYOU DUPONT MARSH AND RIDGE CREATION

TEMPORARY CANAL CROSSING DETAILS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48	SHEET 31 OF 35



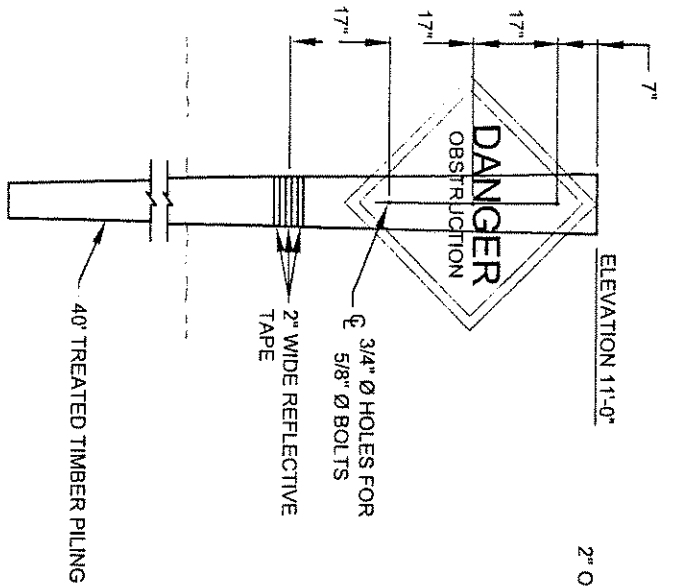
TYPICAL CHANNEL SILL DETAIL



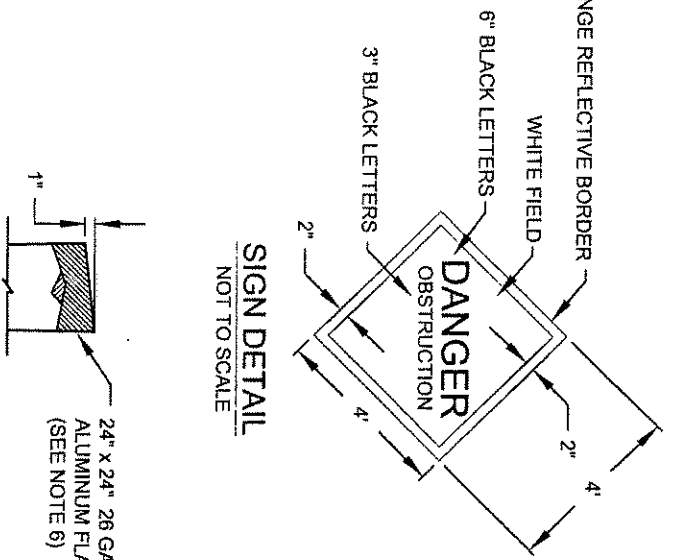
TYPICAL ACCESS RESTRICTION DETAIL

NOTE:
REMOVE AND REPLACE
EXISTING TIMBER PILES USED
FOR ACCESS RESTRICTIONS.

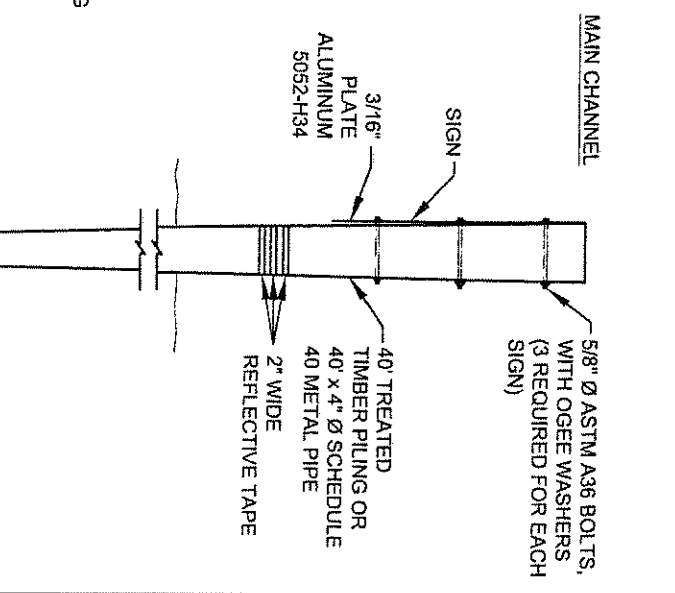
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803		COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLER, P.E.	STATE PROJECT NUMBER: BA-48
		BAYOU DUPONT MARSH AND RIDGE CREATION	CANAL SILL AND ACCESS RESTRICTION DETAILS
		FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011
			SHEET 32 OF 35



WARNING SIGN ELEVATION
NOT TO SCALE



TYPICAL TIMBER PILE CAP
NOT TO SCALE



WARNING SIGN SIDE DETAIL
NOT TO SCALE

- WARNING SIGN NOTES:**
1. FORTY-TWO (42) PERMANENT WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 3 - 8. THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS. IN ACCORDANCE WITH 33 CFR 330.4 (a) (1) WHICH CAN BE DOWNLOADED AT http://www.access.gpo.gov/nara/cfr/waisidx_02/33cfr330_02.html
 2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
 3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
 4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPAP2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOT SPECIFICATION 812.06.
 5. TIMBER PILING SHALL BE 40" IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
 6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

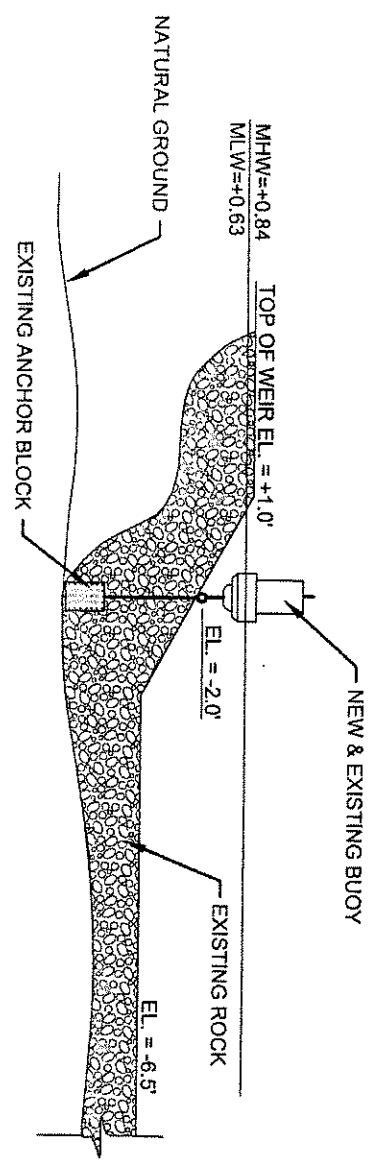
APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

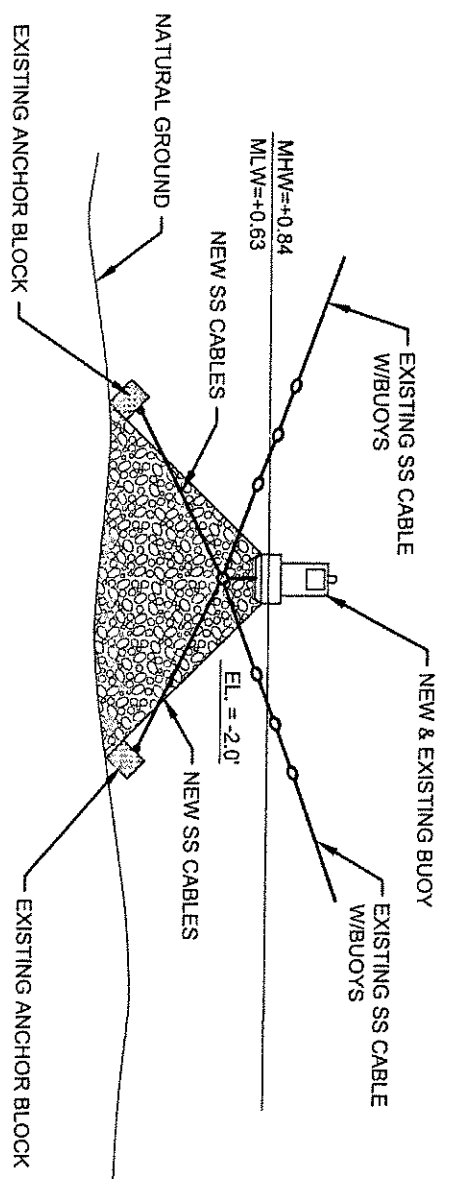
BAYOU DUPONT MARSH AND RIDGE CREATION

SIGN DETAILS

DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	FEDERAL PROJECT NUMBER: BA-48	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011
			FEDERAL PROJECT NUMBER: BA-48		SHEET 33 OF 35



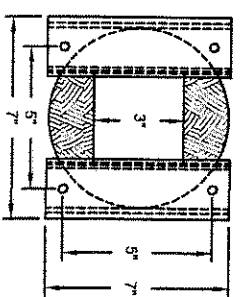
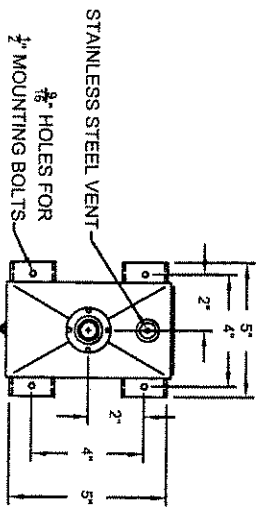
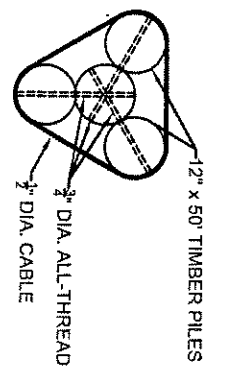
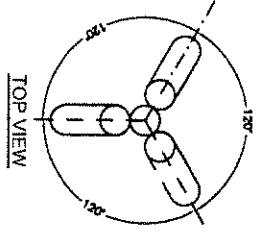
ELEVATION - BUOY DETAILS
TYPE A



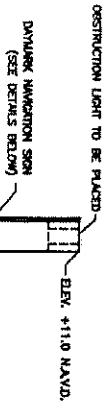
SECTION - BUOY DETAILS
TYPE A

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	BUOY DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFKON, P.E.	APPROVED BY: MAURY CHATELLER, P.E.	FEDERAL PROJECT NUMBER: BA-48
STATE PROJECT NUMBER: BA-48		DATE: JULY 2011 SHEET 34 OF 35	

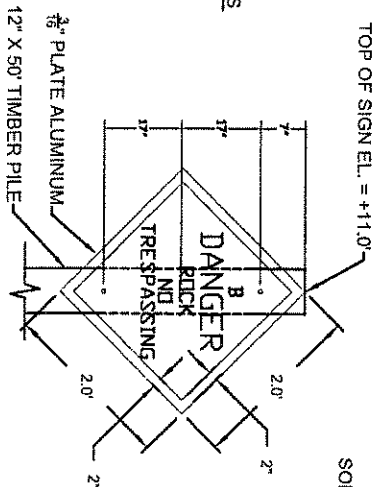
- NOTES:
1. ALL 3/4" DIA. ALL-THREAD THE RODS SHALL BE SECURED BY NOTCHED IN PLACE OGEE WASHERS AND TACK WELDED NUTS.
 2. 8 WRAPS OF 1/2" DIA. CABLE MEETING ASTM A-416 AND ASTM A-882/A-882M-92 BETWEEN THE 3-3/4" DIA. ALL-THREAD ASTM A-615 GR60 GALVANIZED AND EPOXY COATED THE RODS.
 3. THE 1/2" DIA. CABLE SHALL BE SECURED USING 3 STAINLESS STEEL CLAMPS.
 4. THE 3/4" DIA. ALL-THREAD THE RODS SHALL BE A MINIMUM OF 6" BELOW TOP OF BATTERY PILE AND 3" VERTICAL CLEARANCE FROM ADJACENT THE ROD.
 5. 1/4" DIA. ALL-THREAD SHALL BE 50 FEET IN LENGTH WITH A NOMINAL 12-INCH DIAMETER BUTT AND 7-INCH MINIMUM DIAMETER AT THE TIP.



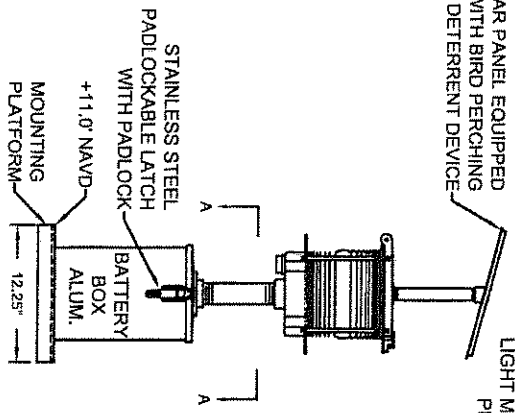
- NOTES:
1. NOTCH ROUND TIMBER PILE FOR FLUSH ALUMINUM MOUNTING BRACKET ATTACHMENT.
 2. HOLES IN ALUMINUM SHALL BE 1/16" OVERSIZE AND HOLES IN ROUND TIMBER PILE SHALL BE 1/8" OVERSIZE FOR THEIR CORRESPONDING BOLTS.



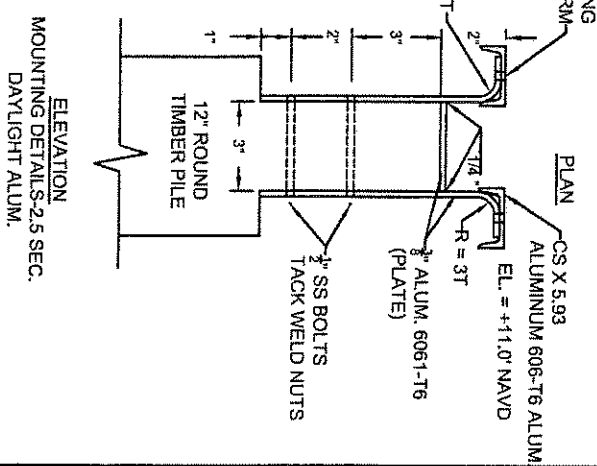
ELEVATION VIEW APPLIES TO SIGNS C AND D



SOLAR PANEL EQUIPPED WITH BIRD PERCHING DETERRENT DEVICE



ELEVATION 2.5 SEC. DAYLIGHT ALUM.



ELEVATION MOUNTING DETAIL S-2.5 SEC. DAYLIGHT ALUM.

- NOTES:
1. SEE SHEETS 4-7 FOR SIGN PLACEMENT LOCATIONS.
 2. ALL DAYMARK NAVIGATION AIDS SHALL ABIDE BY U.S.C.G. REGULATIONS.
 3. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3-5/8\"/>
 - 4. SIGNS A, B, AND D SHALL BE INSTALLED ON SINGLE 50' PILES.

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

NAVIGATIONAL AID DETAILS

DRAWN BY: KRISTI CANTU DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E. STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48 DATE: JULY 2011 SHEET 35 OF 35

BOBBY JINDAL
GOVERNOR



SCOTT A. ANGELLE
SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

January 24, 2011

Richard Hartman
Chief, Baton Rouge Office
NOAA Fisheries
c/o Louisiana State University
Baton Rouge, Louisiana 70803-7535

RE: **C20100273**, Coastal Zone Consistency
NMFS
Direct Federal Action
Bayou Dupont Marsh and Ridge Creation CWPPRA Project BA-48, **Jefferson Parish,**
Louisiana

Dear Dr. Hartman:

The above proposed project has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. The project, as represented in this application, is consistent with the LCRP.

If you have any questions concerning this determination please contact Brian Marcks of the Consistency Section at (225)342-7939 or 1-800-267-4019.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gregory J. DuCote".

Gregory J. DuCote
Administrator
Interagency Affairs/Field Services Division

GJD/JH/bgm

cc: David Butler, LDWF
Pete Serio, NOD-COE
Frank Cole, CMD/FI

Kristi Cantu, OCPR
Jason Smith, Jefferson Parish

Post Office Box 44487 • Baton Rouge, Louisiana 70804-4487
617 North Third Street • 10th Floor • Suite 1078 • Baton Rouge, Louisiana 70802
(225) 342-7591 • Fax (225) 342-9439 • <http://www.dnr.louisiana.gov>

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Operations Division
Eastern Evaluation Section

SUBJECT: MVN 2010-2720 EMM

National Marine Fisheries Service
LSU, South Stadium Drive
Baton Rouge, Louisiana 70803

Gentlemen,

Revised plans attached in 35 drawings furnished with your request to excavate and deposit fill to construct the Bayou Dupont Marsh and Ridge Restoration Project (BA-48 CWPPRA), for the purpose of coastal restoration efforts in Plaquemines and Jefferson Parishes, are approved and will be included in your plans for the work authorized by the Secretary of the Army in a permit, MVN 2010-2720 EMM, dated December 19, 2012, from the District Engineer at New Orleans, Louisiana. These plans supersede those of your original authorization. The permit is specifically extended to August 31, 2018.

The conditions to which the work is made subject, except the timeline for completion, remain in full force and effect.

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

Permittee is aware that this office may re-evaluate its decision on this permit at any time the circumstances warrant.

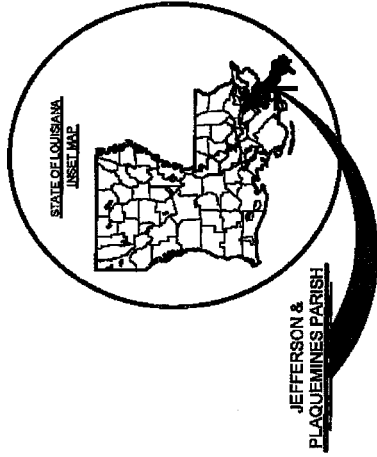
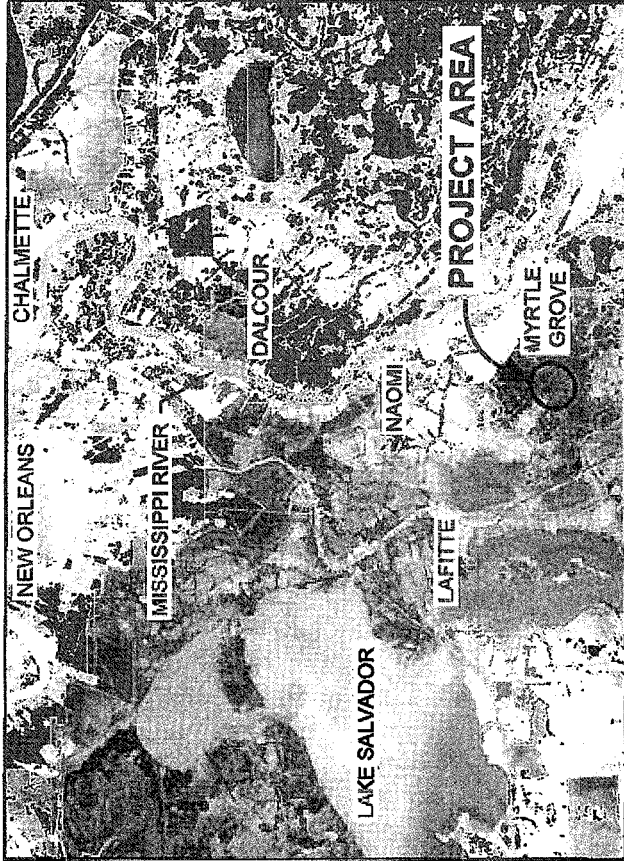
INDEX TO SHEETS

SHEET NO. DESCRIPTION

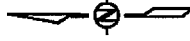
- 1 TITLE SHEET
- 2 PROJECT LAYOUT
- 3 ALLIANCE ANCHORAGE BORROW AREA LAYOUT
- 4-7 PLAN VIEW
- 8 DREDGE PIPELINE CORRIDOR LAYOUT
- 9 MARSH CREATION AREA LAYOUT
- 10-15 TYPICAL SECTIONS
- 16 BAYOU DUPONT WEIR DETAILS
- 17 BOOSTER PUMP SITE TYPICAL DETAILS
- 18 EARTHEN CONTAINMENT DIKE AND RIDGE DETAILS
- 19 HIGHWAY CROSSING DETAIL
- 20 RAILROAD CROSSING DETAIL
- 21-22 MISSISSIPPI RIVER LEVEE CROSSING DETAIL
- 23-24 LEVEE INSPECTION ROAD CROSSING DETAILS
- 25 CATTLE CROSSING DETAILS
- 26 DIRT ROAD CROSSING DETAILS
- 27-28 GRAVEL ROAD CROSSING DETAIL
- 29-30 FLOOD PROTECTION LEVEE CROSSING DETAILS
- 31 TEMPORARY CANAL CROSSING DETAILS
- 32 CANAL SILL AND ACCESS RESTRICTION DETAILS
- 33 SIGN DETAILS
- 34 BUOY DETAILS
- 35 NAVIGATIONAL AID DETAILS

**STATE OF LOUISIANA
COASTAL PROTECTION & RESTORATION AUTHORITY**

**BAYOU DUPONT MARSH
AND RIDGE CREATION
BA-48
JEFFERSON & PLAQUEMINES PARISHES**



JEFFERSON &
PLAQUEMINES PARISH



APPLICATION BY:

NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRON, P.E.

APPROVED BY: MAURY CHATELLIER, P.E.

BAYOU DUPONT MARSH
AND RIDGE CREATION

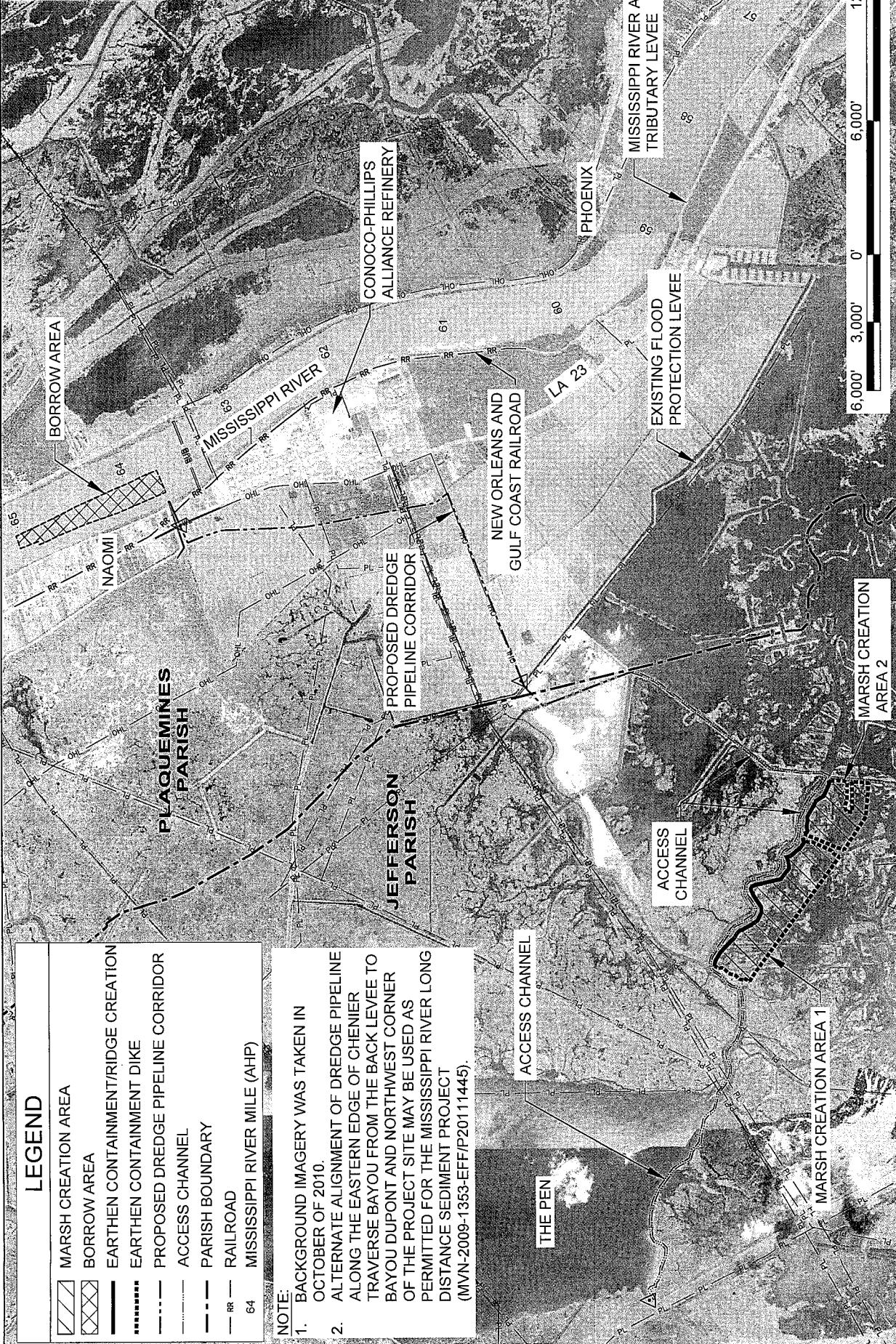
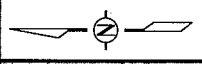
TITLE SHEET

STATE PROJECT NUMBER: BA-48










DATE: JULY 2011

FEDERAL PROJECT NUMBER: BA-48

SHEET 1 OF 35



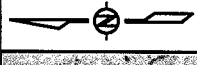
LEGEND

-  MARSH CREATION AREA
-  BORROW AREA
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  PROPOSED DREDGE PIPELINE CORRIDOR
-  ACCESS CHANNEL
-  PARISH BOUNDARY
-  RAILROAD
-  MISSISSIPPI RIVER MILE (AHP)

NOTE:

1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.
2. ALTERNATE ALIGNMENT OF DREDGE PIPELINE ALONG THE EASTERN EDGE OF CHIENIER TRVERSE BAYOU FROM THE BACK LEVEE TO BAYOU DUPONT AND NORTHWEST CORNER OF THE PROJECT SITE MAY BE USED AS PERMITTED FOR THE MISSISSIPPI RIVER LONG DISTANCE SEDIMENT PROJECT (MVN-2009-1353-EFF/P20111445).

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>PROJECT LAYOUT</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P. E.</p>	<p>STATE PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD MAR. 20, 2013) SHEET 2 OF 35</p>

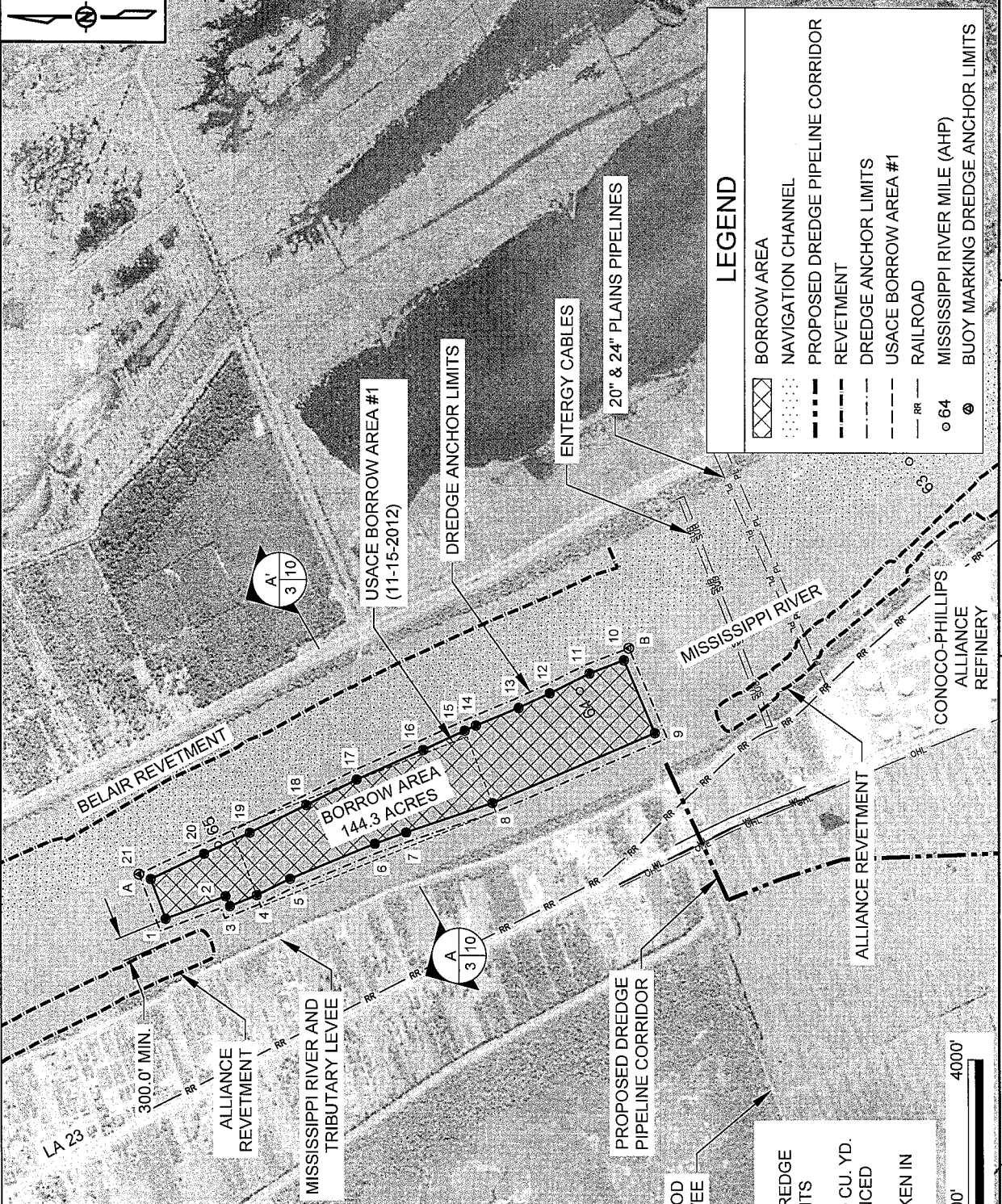


BORROW AREA (TOP OF CUT)		
PT.	LATITUDE	LONGITUDE
1	29° 43' 10.47" N	89° 59' 24.17" W
2	29° 43' 02.46" N	89° 59' 20.84" W
3	29° 43' 01.88" N	89° 59' 22.36" W
4	29° 42' 58.29" N	89° 59' 20.75" W
5	29° 42' 53.82" N	89° 59' 18.33" W
6	29° 42' 42.47" N	89° 59' 13.18" W
7	29° 42' 38.29" N	89° 59' 11.50" W
8	29° 42' 26.77" N	89° 59' 07.22" W
9	29° 42' 05.06" N	89° 58' 57.01" W
10	29° 42' 09.07" N	89° 58' 46.04" W
11	29° 42' 13.66" N	89° 58' 47.96" W
12	29° 42' 18.97" N	89° 58' 50.89" W
13	29° 42' 23.14" N	89° 58' 52.99" W
14	29° 42' 28.84" N	89° 58' 55.57" W
15	29° 42' 30.32" N	89° 58' 56.31" W
16	29° 42' 35.88" N	89° 58' 59.10" W
17	29° 42' 44.79" N	89° 59' 03.41" W
18	29° 42' 51.52" N	89° 59' 07.19" W
19	29° 42' 59.11" N	89° 59' 11.27" W
20	29° 43' 05.25" N	89° 59' 14.39" W
21	29° 43' 12.41" N	89° 59' 18.11" W

BUOYS MARKING DREDGE ANCHOR LIMITS		
PT.	LATITUDE	LONGITUDE
A	29° 43' 13.97" N	89° 59' 17.37" W
B	29° 43' 08.38" N	89° 58' 44.24" W

EXISTING FLOOD PROTECTION LEVEL

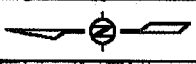
- NOTES:
1. THE CONTRACTOR SHALL NOT DREDGE BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS.
 2. EXCAVATION VOLUME = 7,120,700 CU. YD.
 3. BORROW AREA POINTS REFERENCED FROM TOP OF CUT.
 4. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.



LEGEND

- BORROW AREA
- NAVIGATION CHANNEL
- PROPOSED DREDGE PIPELINE CORRIDOR
- REVETMENT
- DREDGE ANCHOR LIMITS
- USACE BORROW AREA #1
- RAILROAD
- MISSISSIPPI RIVER MILE (AHP)
- BUOY MARKING DREDGE ANCHOR LIMITS

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p> <p>STATE PROJECT NUMBER: BA-48</p> <p>FEDERAL PROJECT NUMBER: BA-48</p>	<p>ALLIANCE ANCHORAGE BORROW AREA LAYOUT</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>DATE: JULY 2011 (MOD DEC. 12, 2012)</p> <p>SHEET 3 OF 35</p>	



MATCH LINE A (SEE SHEET 5)

TEMPORARY SPOIL PLACEMENT
(TO BE BACKFILLED AT END OF
CONSTRUCTION)




TEMPORARY WARNING
SIGN (TYP.)

ACCESS CHANNEL

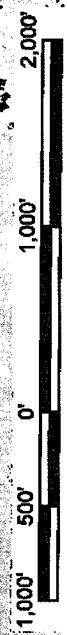
BARATARIA WATERWAY

EXISTING WEIR REMOVED
BY NRCS FOR THE BA-41 PROJECT.
WEIR WILL BE REPLACED BY OGPR
AT THE END OF CONSTRUCTION.
(SEE SHEET 16 FOR DETAILS)

LEGEND

-  ACCESS CHANNEL
-  TEMPORARY SPOIL
-  TEMPORARY WARNING SIGNS

NOTE:
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.



APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH
AND RIDGE CREATION

PLAN VIEW

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.







STATE PROJECT NUMBER: BA-46

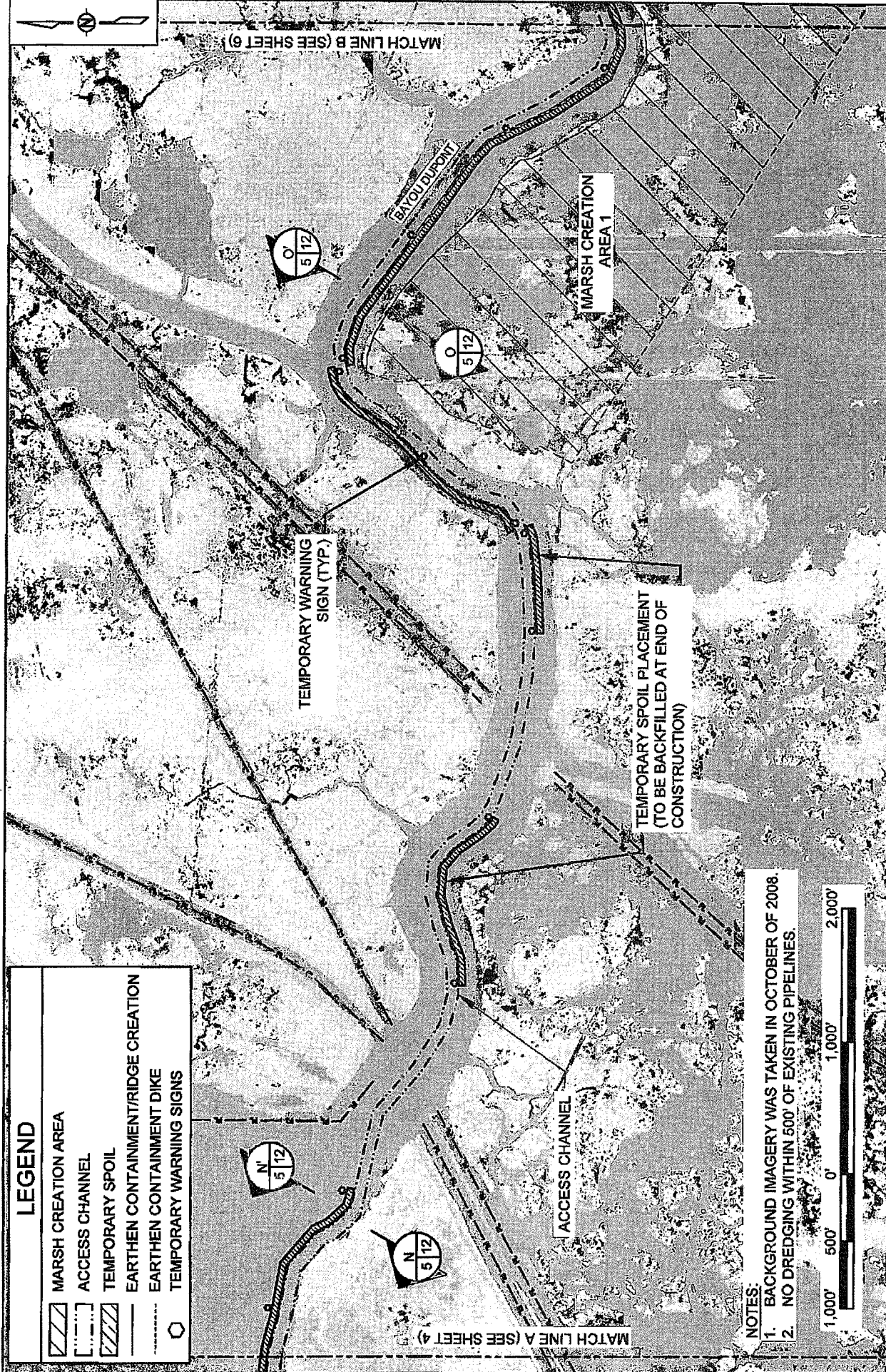
FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011

SHEET 4 OF 35

LEGEND

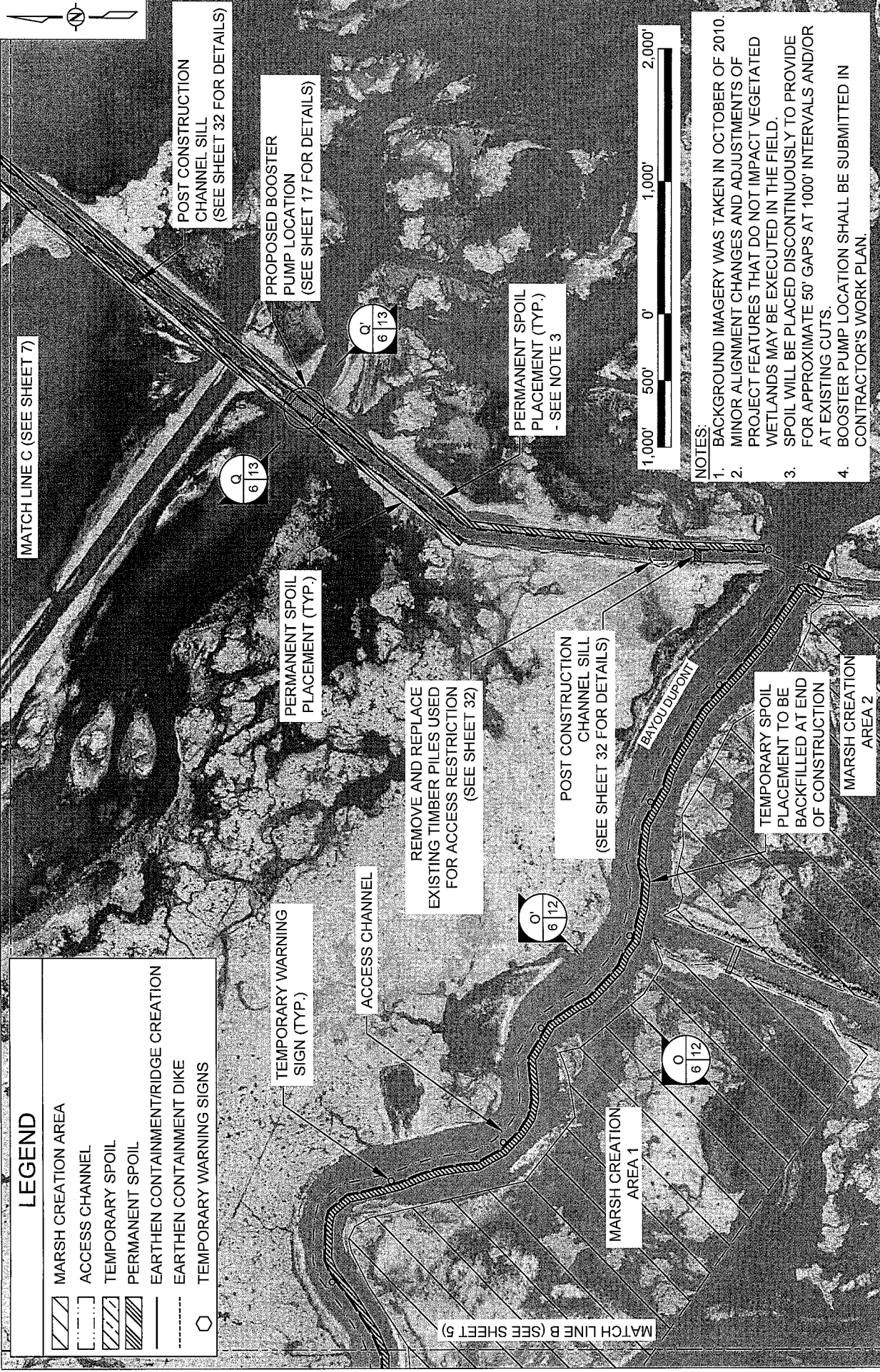
-  MARSH CREATION AREA
-  ACCESS CHANNEL
-  TEMPORARY SPOIL
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  TEMPORARY WARNING SIGNS










NOTES:
 1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
 2. NO DREDGING WITHIN 500' OF EXISTING PIPELINES.



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	PLAN VIEW
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 5 OF 35



LEGEND

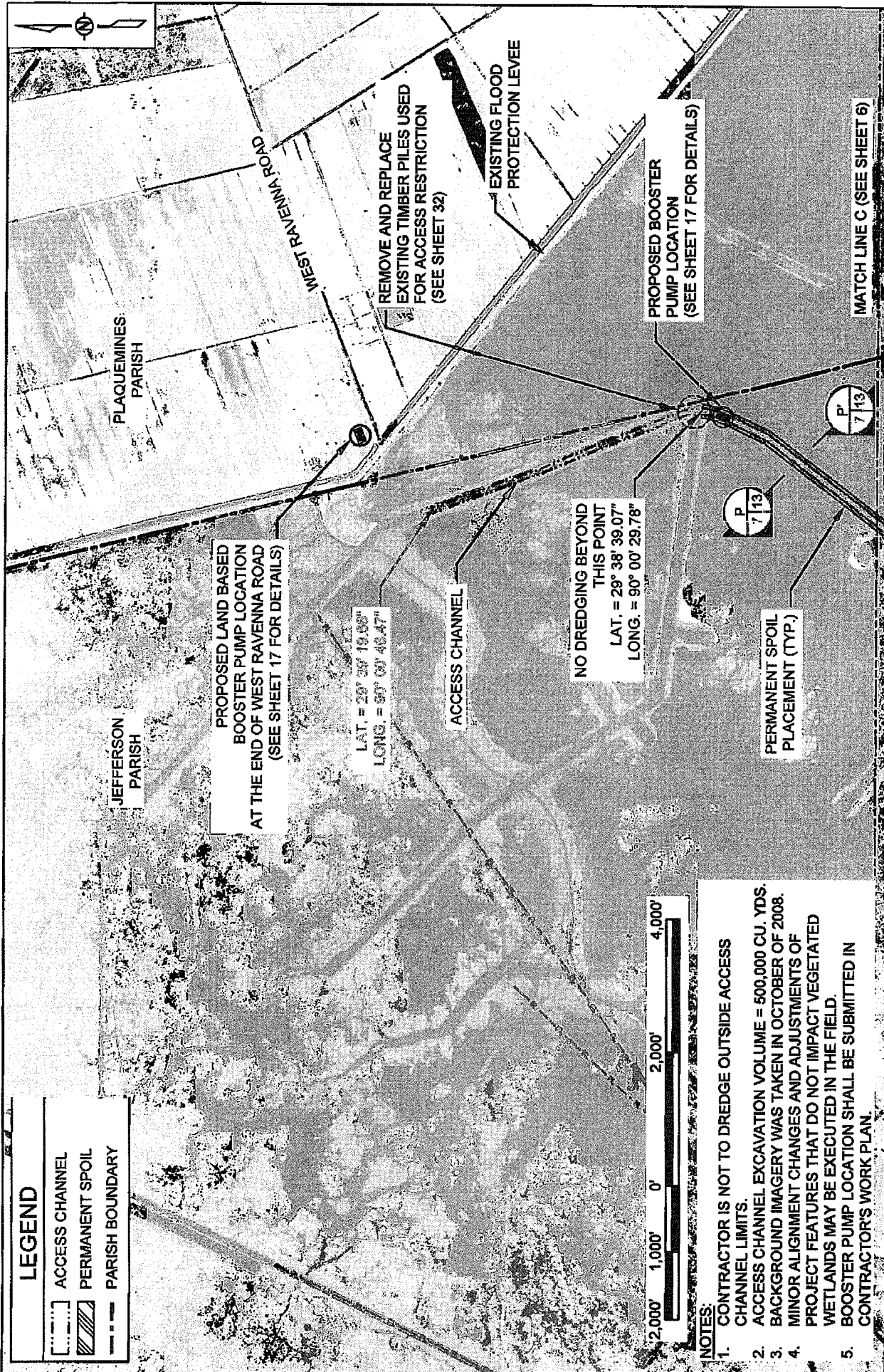
-  MARSH CREATION AREA
-  ACCESS CHANNEL
-  TEMPORARY SPOIL
-  PERMANENT SPOIL
-  EARTHEN CONTAINMENT/RIDGE CREATION
-  EARTHEN CONTAINMENT DIKE
-  TEMPORARY WARNING SIGNS

- NOTES:**
1. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.
 2. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
 3. SPOIL WILL BE PLACED DISCONTINUOUSLY TO PROVIDE FOR APPROXIMATE 50' GAPS AT 1000' INTERVALS AND/OR AT EXISTING CUTS.
 4. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>PLAN VIEW</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD. MAR. 20, 2013) SHEET 6 OF 35</p>

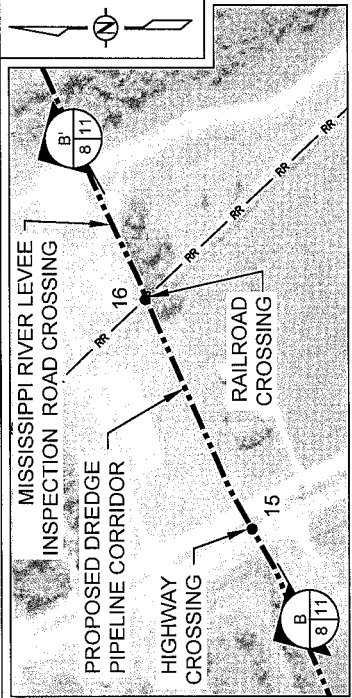
LEGEND

-  ACCESS CHANNEL
-  PERMANENT SPOIL
-  PARISH BOUNDARY



- NOTES:**
1. CONTRACTOR IS NOT TO DREDGE OUTSIDE ACCESS CHANNEL LIMITS.
 2. ACCESS CHANNEL EXCAVATION VOLUME = 500,000 CU. YDS.
 3. BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2008.
 4. MINOR ALIGNMENT CHANGES AND ADJUSTMENTS OF PROJECT FEATURES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.
 5. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>PLAN VIEW</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRON, P.E.; APPROVED BY: MAURY CHATELIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 SHEET 7 OF 35</p>



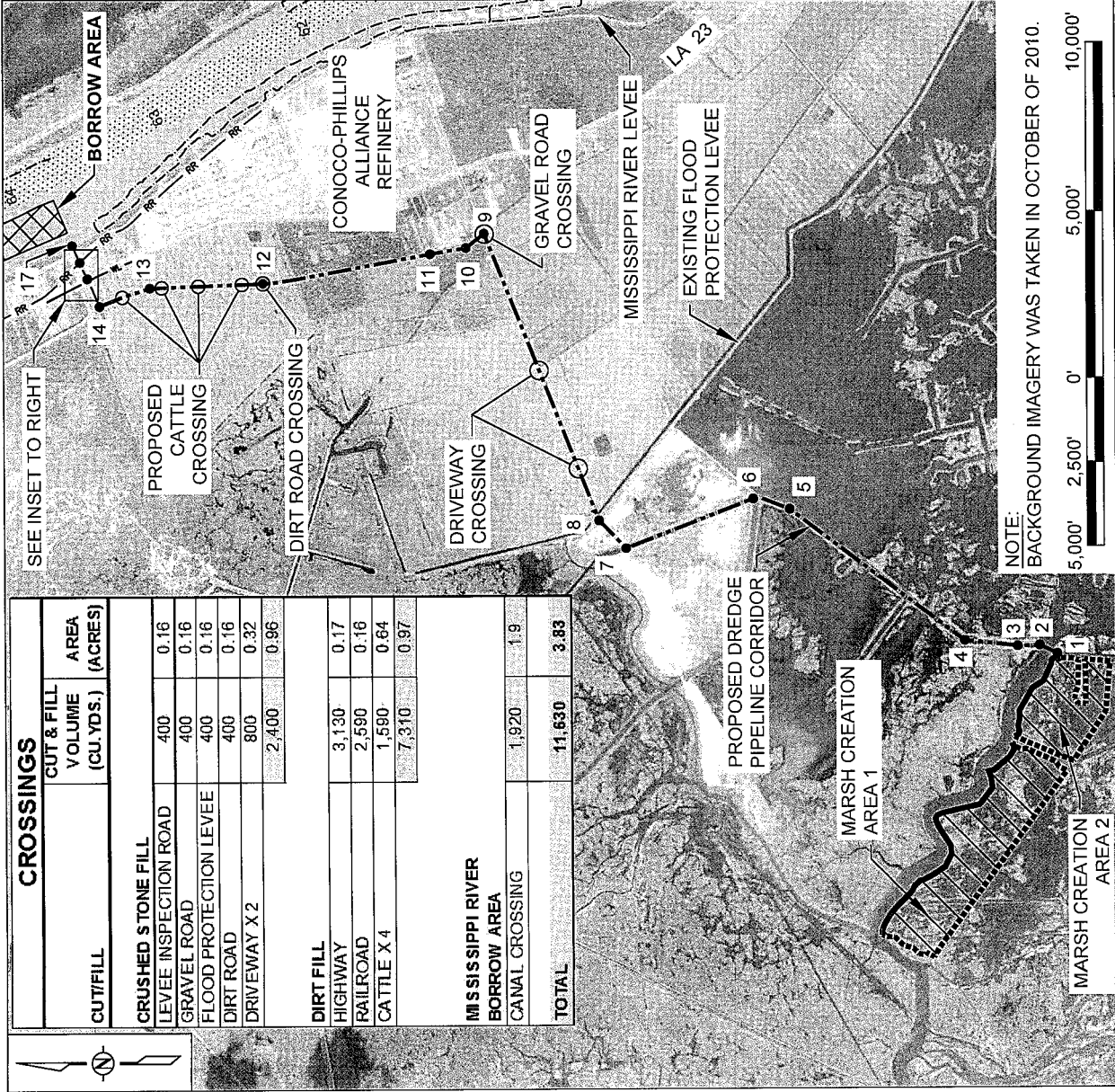
SCALE: 1" = 400'

PROPOSED DREDGE PIPELINE CORRIDOR

PT.	LATITUDE	LONGITUDE
1	29° 37' 11.18"	90° 01' 24.30"
2	29° 37' 16.41"	90° 01' 21.44"
3	29° 37' 22.94"	90° 01' 21.58"
4	29° 37' 38.71"	90° 01' 19.40"
5	29° 38' 30.16"	90° 00' 33.62"
6	29° 38' 40.98"	90° 00' 29.97"
7	29° 39' 19.18"	90° 00' 46.11"
8	29° 39' 27.06"	90° 00' 36.52"
9	29° 40' 00.10"	89° 58' 59.20"
10	29° 40' 05.58"	89° 59' 04.03"
11	29° 40' 16.32"	89° 59' 06.00"
12	29° 41' 06.43"	89° 59' 15.15"
13	29° 41' 40.40"	89° 59' 16.32"
14	29° 41' 55.64"	89° 59' 22.28"
15	29° 41' 59.20"	89° 59' 12.86"
16	29° 42' 01.43"	89° 59' 07.24"
17	29° 42' 03.65"	89° 59' 01.44"

LEGEND

- MARSH CREATION AREA
- BORROW AREA
- EARTHEN CONTAINMENT/RIDGE CREATION
- EARTHEN CONTAINMENT DIKE
- PROPOSED DREDGE PIPELINE CORRIDOR
- RAILROAD
- MISSISSIPPI RIVER MILE (AHP)



NOTE:
BACKGROUND IMAGERY WAS TAKEN IN OCTOBER OF 2010.



CROSSINGS		
CUT/FILL	CUT & FILL VOLUME (CU. YDS.)	AREA (ACRES)
CRUSHED STONE FILL		
LEVEE INSPECTION ROAD	400	0.16
GRAVEL ROAD	400	0.16
FLOOD PROTECTION LEVEE	400	0.16
DIRT ROAD	400	0.16
DRIVEWAY X 2	800	0.32
	2,400	0.96
DIRT FILL		
HIGHWAY	3,130	0.17
RAILROAD	2,590	0.16
CATTLE X 4	1,590	0.64
	7,310	0.97
MISSISSIPPI RIVER BORROW AREA		
CANAL CROSSING	1,920	1.9
TOTAL	11,630	3.83

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA. 70803

BAYOU DUPONT MARSH AND RIDGE CREATION

DREDGE PIPELINE CORRIDOR LAYOUT

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-48

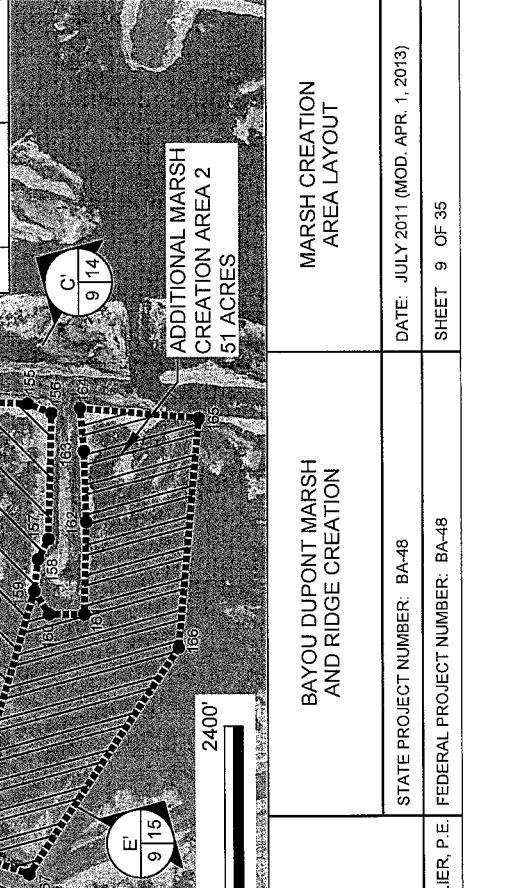
FEDERAL PROJECT NUMBER: BA-48

DATE: JULY 2011 (MOD. MAR. 20, 2013)

SHEET 8 OF 35

FILL AREAS 1 AND 2

PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE	PT.	LATITUDE	LONGITUDE
101	29° 38' 04.84"	90° 02' 58.23"	119	29° 37' 35.01"	90° 02' 14.66"	137	29° 37' 52.11"	90° 03' 05.24"
102	29° 38' 04.77"	90° 02' 56.84"	120	29° 37' 31.13"	90° 02' 09.23"	138	29° 37' 54.00"	90° 03' 04.97"
103	29° 38' 04.17"	90° 02' 54.90"	121	29° 37' 31.59"	90° 02' 05.67"	139	29° 37' 55.54"	90° 03' 03.05"
104	29° 38' 02.30"	90° 02' 51.47"	122	29° 37' 31.97"	90° 02' 04.39"	140	29° 37' 58.65"	90° 03' 01.94"
105	29° 38' 00.11"	90° 02' 48.61"	123	29° 37' 32.23"	90° 02' 03.68"	141	29° 38' 01.14"	90° 02' 58.97"
106	29° 37' 55.90"	90° 02' 44.02"	124	29° 37' 30.67"	90° 02' 03.30"	142	29° 38' 02.63"	90° 02' 59.08"
107	29° 37' 54.63"	90° 02' 41.59"	125	29° 37' 25.84"	90° 01' 58.86"	143	29° 37' 24.26"	90° 01' 52.18"
108	29° 37' 53.29"	90° 02' 40.16"	126	29° 37' 24.40"	90° 01' 56.38"	144	29° 37' 23.15"	90° 01' 51.54"
109	29° 37' 52.37"	90° 02' 39.99"	127	29° 37' 25.04"	90° 01' 54.32"	145	29° 37' 22.81"	90° 01' 50.60"
110	29° 37' 48.65"	90° 02' 37.73"	128	29° 37' 24.20"	90° 01' 55.65"	146	29° 37' 23.24"	90° 01' 48.69"
111	29° 37' 45.58"	90° 02' 35.40"	129	29° 37' 22.54"	90° 01' 56.48"	147	29° 37' 22.71"	90° 01' 46.24"
112	29° 37' 43.73"	90° 02' 31.35"	130	29° 37' 20.74"	90° 01' 56.37"	148	29° 37' 22.81"	90° 01' 43.63"
113	29° 37' 43.90"	90° 02' 28.40"	131	29° 37' 12.12"	90° 02' 00.82"	149	29° 37' 20.49"	90° 01' 39.34"
114	29° 37' 46.83"	90° 02' 23.20"	132	29° 37' 11.29"	90° 02' 02.57"	150	29° 37' 18.84"	90° 01' 35.98"
115	29° 37' 48.09"	90° 02' 20.36"	133	29° 37' 08.90"	90° 02' 03.94"	151	29° 37' 15.43"	90° 01' 33.62"
116	29° 37' 48.30"	90° 02' 19.30"	134	29° 37' 46.91"	90° 03' 01.57"	152	29° 37' 13.03"	90° 01' 27.87"
117	29° 37' 47.83"	90° 02' 18.26"	135	29° 37' 49.45"	90° 03' 06.02"	153	29° 37' 12.92"	90° 01' 26.66"
118	29° 37' 46.65"	90° 02' 17.52"	136	29° 37' 51.85"	90° 03' 04.57"	154	29° 37' 12.06"	90° 01' 25.86"
						155	29° 37' 06.46"	90° 01' 26.21"
						156	29° 37' 04.93"	90° 01' 26.92"
						157	29° 37' 05.24"	90° 01' 36.14"
						158	29° 37' 05.92"	90° 01' 37.59"
						159	29° 37' 06.19"	90° 01' 39.90"
						160	29° 37' 05.27"	90° 01' 41.60"
						161	29° 37' 03.00"	90° 01' 41.64"
						162	29° 37' 02.80"	90° 01' 34.95"
						163	29° 37' 02.88"	90° 01' 29.76"
						164	29° 37' 03.08"	90° 01' 26.61"
						165	29° 36' 55.48"	90° 01' 27.44"
						166	29° 36' 56.96"	90° 01' 44.17"
						167	29° 37' 06.79"	90° 02' 00.52"
						168	29° 37' 11.24"	90° 01' 58.68"
						169	29° 37' 18.70"	90° 01' 54.95"



NOTE:
 MARSH EXCAVATED = 15 ACRES
 OPEN WATER EXCAVATED = 140 ACRES
 MARSH CREATED = 317 ACRES
 REVISED MARSH CREATED = 399 ACRES
 RIDGE CREATED = 36 ACRES
 MARSH CREATION FILL = 2,146,200 CU. YDS.
 REVISED MARSH CREATION FILL = 2,737,850 CU. YDS.

LEGEND

	MARSH CREATION AREA
	ADDITIONAL MARSH CREATION AREA
	ACCESS CHANNEL
	RIDGE CREATION
	EARTHEN CONTAINMENT DIKE
	PROPOSED DREDGE PIPELINE CORRIDOR
	TEMPORARY CANAL CROSSING

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

DESIGNED BY: KRISTI CANTU

DATE: JULY 2011 (MOD. APR. 1, 2013)

SHEET: 9 OF 35

COASTAL PROTECTION AND RESTORATION AUTHORITY
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

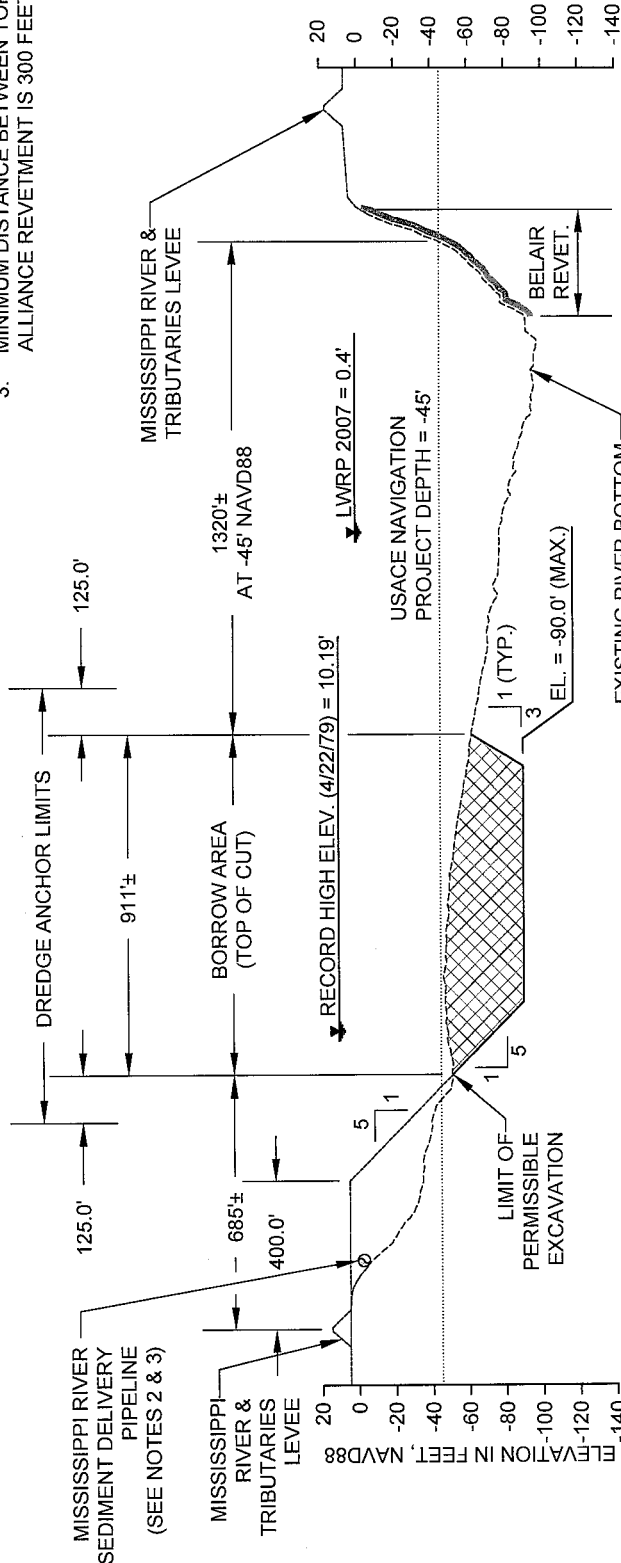
BAYOU DUPONT MARSH AND RIDGE CREATION

MARSH CREATION AREA LAYOUT

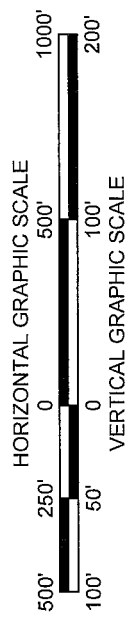
STATE PROJECT NUMBER: BA-48
FEDERAL PROJECT NUMBER: BA-48

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.
2. RIVER BOTTOM PROFILE BASED ON SURVEY DONE ON AUGUST 17, 2011.
3. MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET.



BORROW AREA
A-A' 10/3

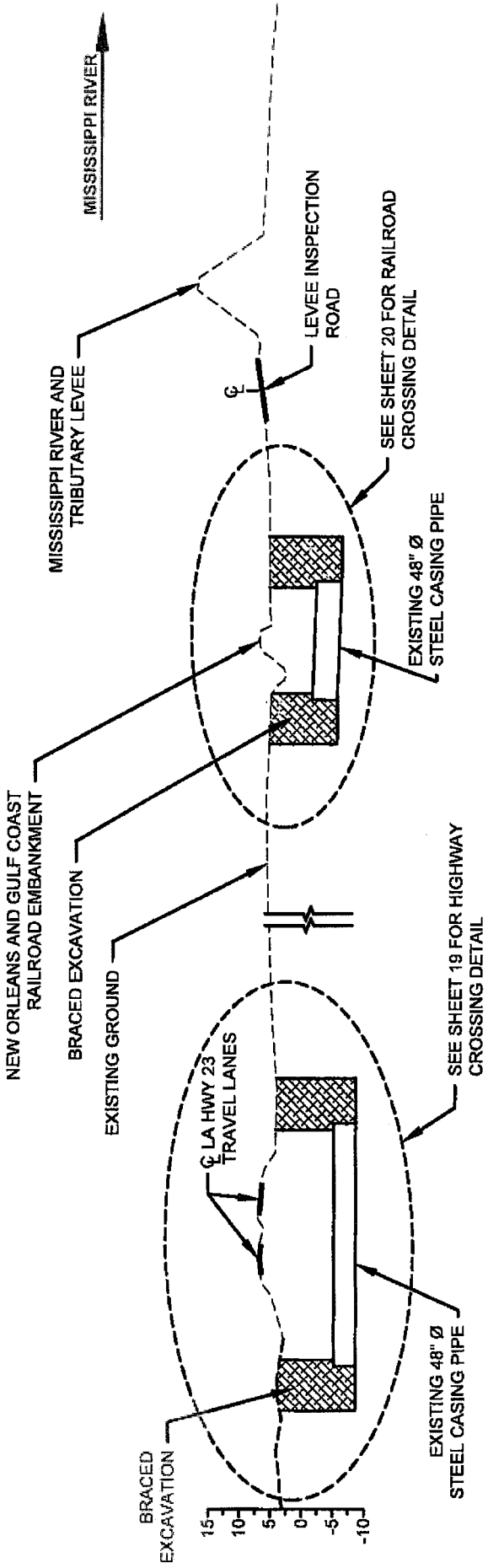


LEGEND

---	EXISTING RIVER BOTTOM
▨	BORROW AREA

- DREDGING NOTES:**
1. THE CONTRACTOR WILL BE REQUIRED TO ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS. ANCHORING BEYOND THE DREDGE ANCHOR LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
 2. THE DREDGE ANCHOR LIMIT COORDINATES, POINTS A AND B, AND ALL DREDGE ANCHORS SHALL BE MARKED WITH BUOYS DURING DREDGING OPERATIONS.
 3. THE CONTRACTOR WILL BE REQUIRED TO STAY WITHIN THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN ON THE DRAWINGS IS NOT ALLOWED.
 4. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND MNSA DELINEATING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE OWNER SPECIFICATIONS.

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>TYPICAL SECTION</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD DEC. 12, 2012) SHEET 10 OF 35</p>



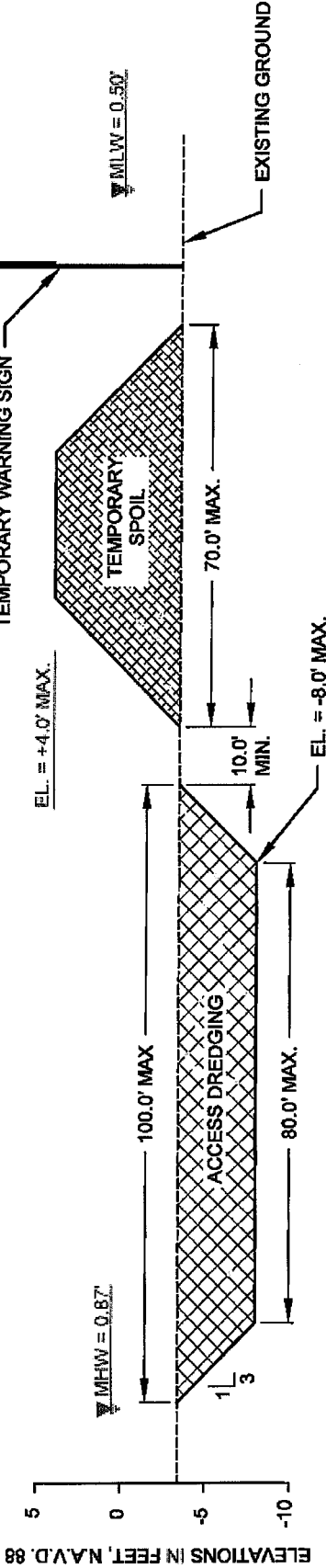
B-B
118
DREDGE PIPELINE CORRIDOR
HIGHWAY & RAILROAD CROSSING



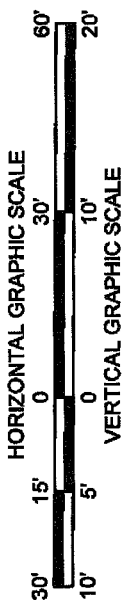
NOTE:
 ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

LEGEND	
---	EXISTING GROUND
▨	BRACED EXCAVATION

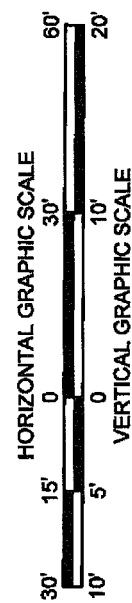
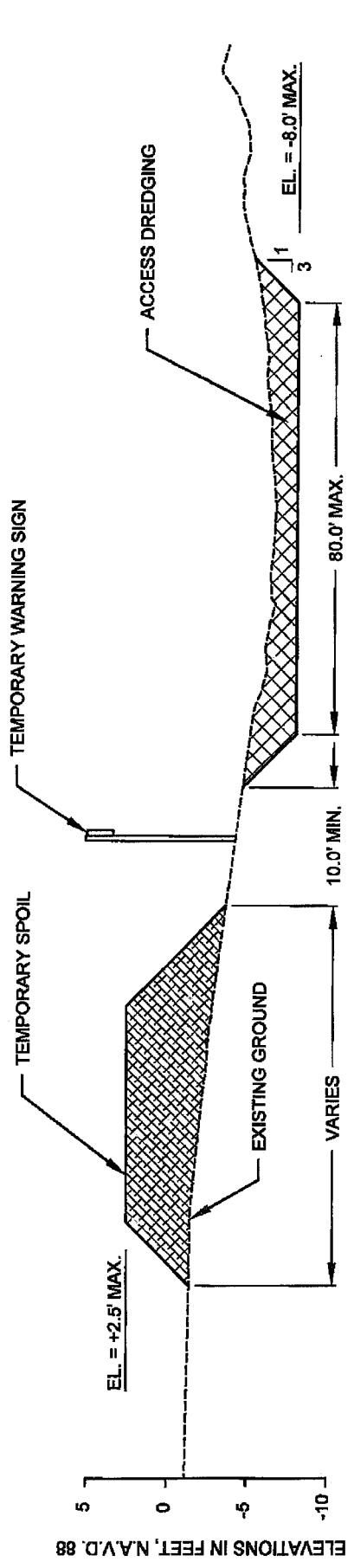
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
			STATE PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD. 11/15/12)
DRAWN BY: KRISTI CANTU			FEDERAL PROJECT NUMBER: BA-48	SHEET 11 OF 35



ACCESS CHANNEL & TEMPORARY SPOIL



NOTE:
ALL ELEVATIONS ARE GIVEN IN THE
NORTH AMERICAN VERTICAL DATUM OF
1988 (NAVD 88) U.S. SURVEY FEET.



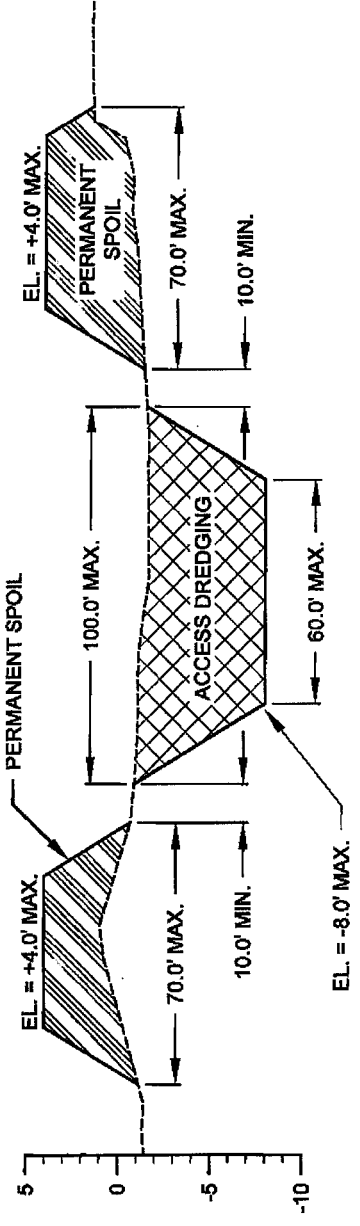
LEGEND

- EXISTING GROUND/WATER BOTTOM
- XXXX ACCESS DREDGING
- XXXXX TEMPORARY SPOIL

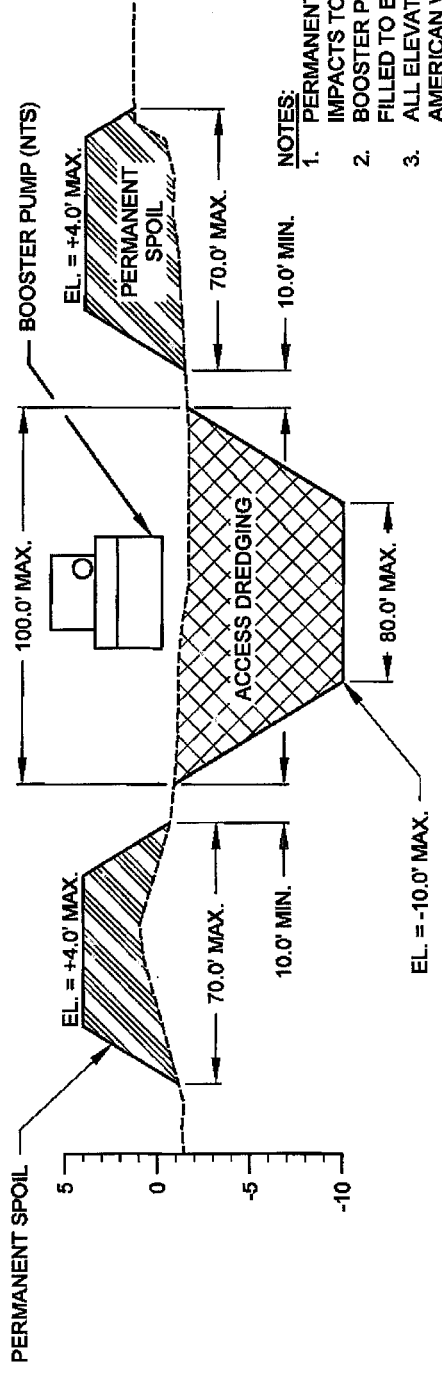
ACCESS CHANNEL & TEMPORARY SPOIL

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
DRAWN BY: KRISTI CANTU	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 12 OF 35

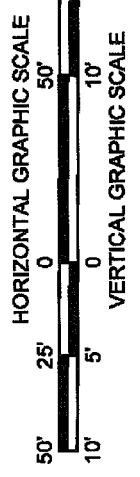
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.



**P.P.
13 | 7**
**ACCESS CHANNEL &
PERMANENT SPOIL**



- NOTES:**
1. PERMANENT SPOIL TO BE PLACED TO AVOID IMPACTS TO EXISTING MARSH.
 2. BOOSTER PUMP LOCATION TO BE BACK FILLED TO ELEVATION -8.0' NAVD88.
 3. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

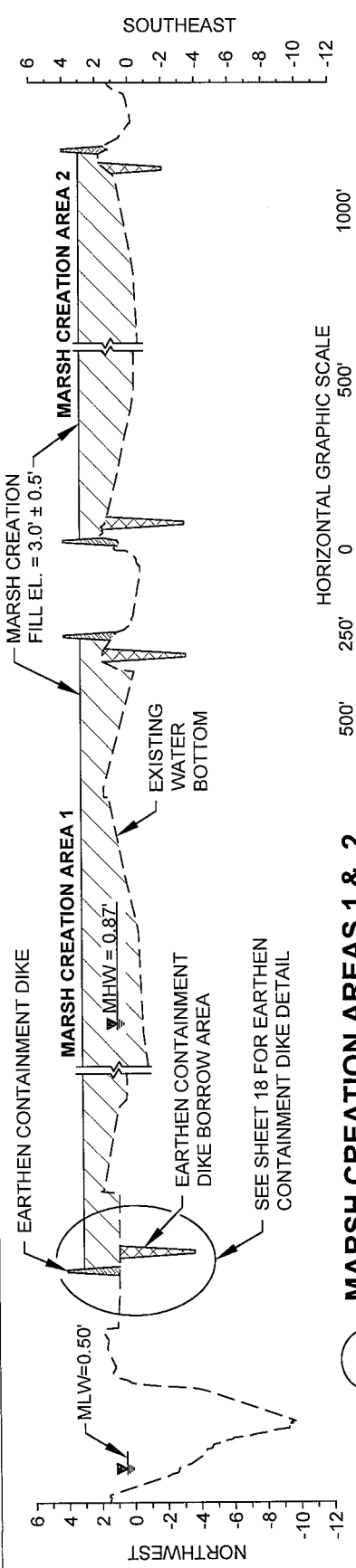


**Q-Q'
13 | 6**
**ACCESS CHANNEL FOR
BOOSTER PUMP**

LEGEND

- EXISTING GROUNDWATER BOTTOM
- XXXX ACCESS DREDGING
- //// PERMANENT SPOIL

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	TYPICAL SECTIONS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E.; APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-46 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 13 OF 35

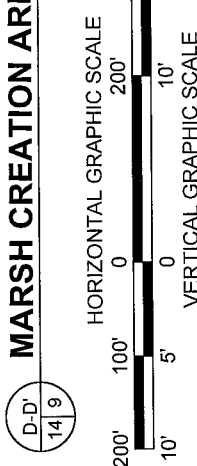
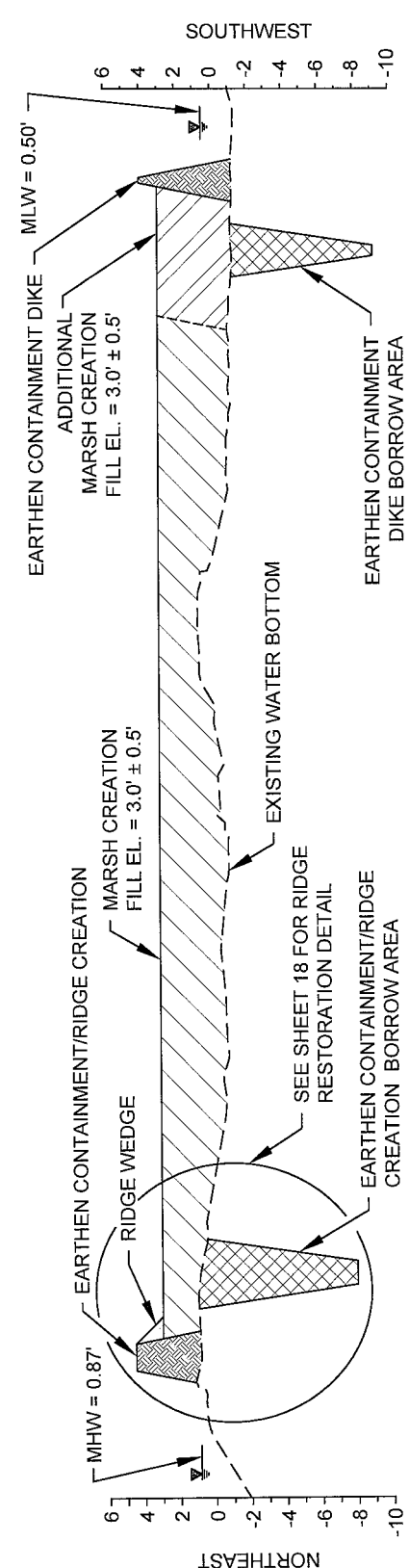


MARSH CREATION AREAS 1 & 2

C-C
14 | 9

MARSH CREATION AREA 1

D-D'
14 | 9



NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

LEGEND

---	EXISTING GROUND/WATER BOTTOM
▨	BORROW AREA
▩	EARTHEN CONTAINMENT/RIDGE CREATION
▧	MARSH FILL
▦	ADDITIONAL MARSH FILL
▤	RIDGE WEDGE

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH AND RIDGE CREATION

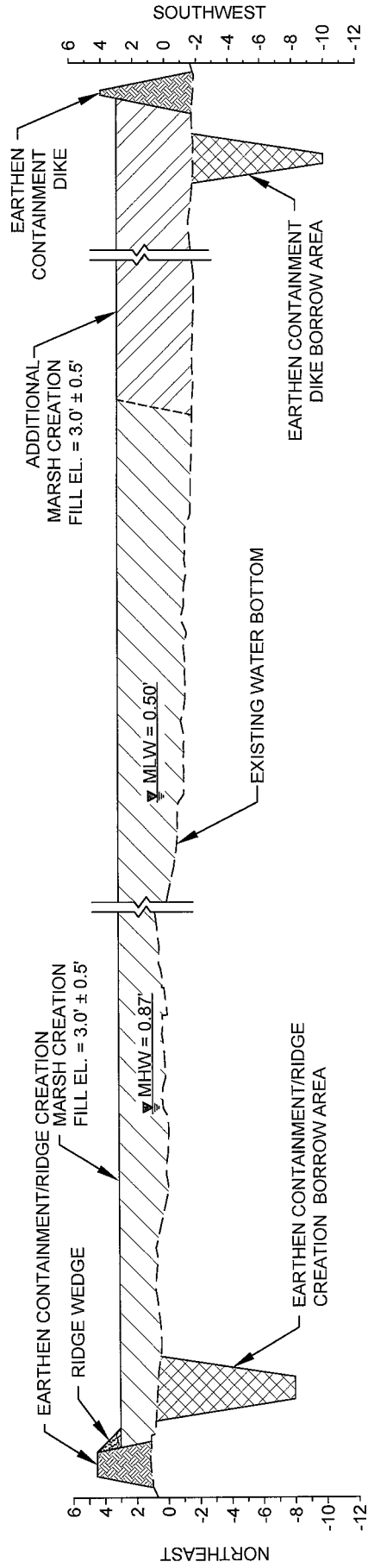
TYPICAL SECTIONS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-48
FEDERAL PROJECT NUMBER: BA-48

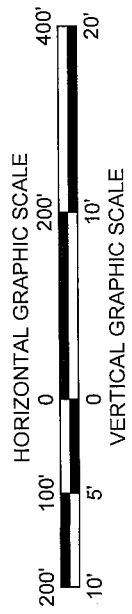
DATE: JULY 2011 (MOD. APRIL 11, 2013)
SHEET 14 OF 35



MARSH CREATION AREA 2

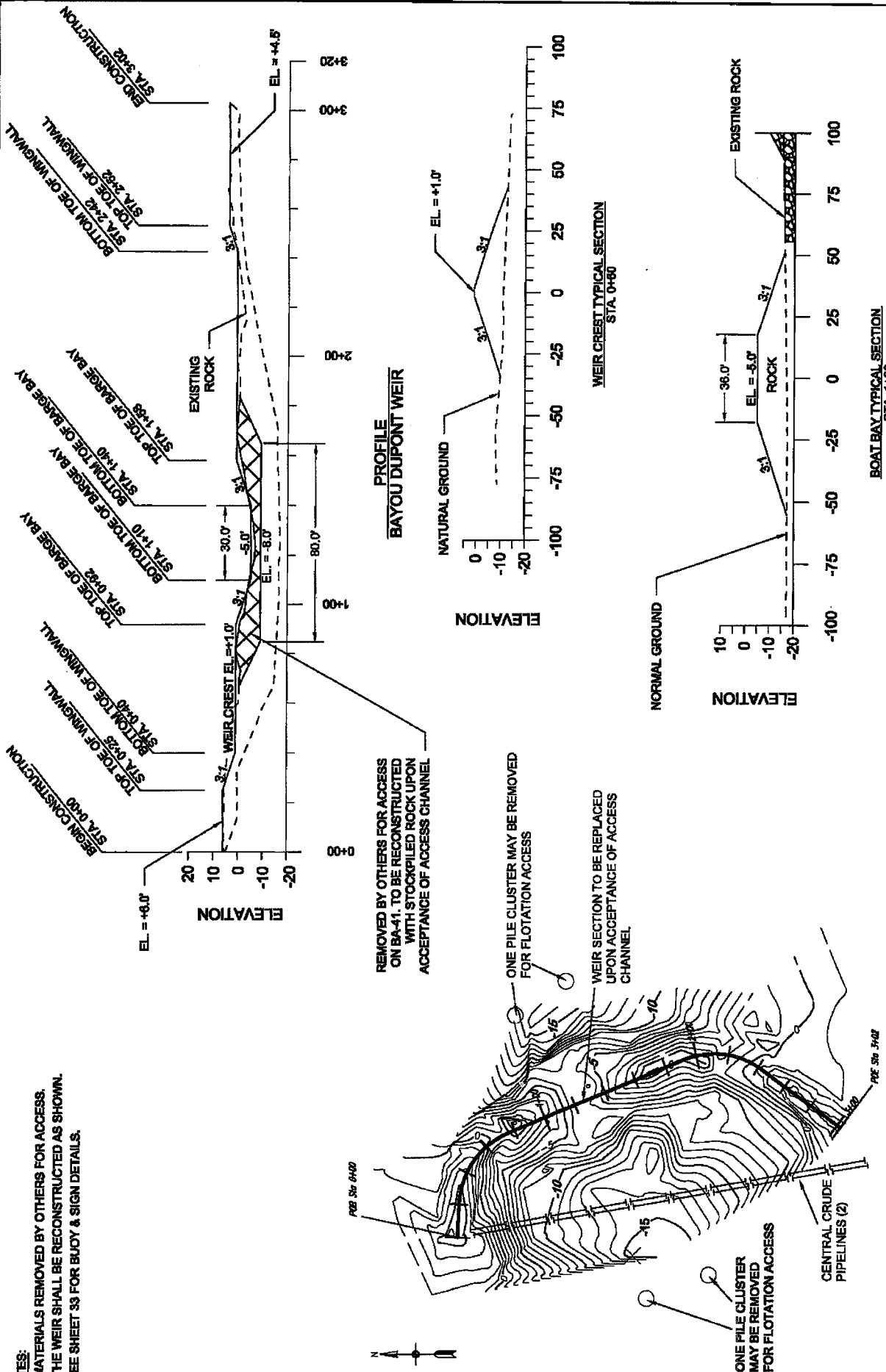
E-E'
15 | 9

LEGEND	
---	EXISTING GROUND/WATER BOTTOM
▨	BORROW AREA
▩	EARTHEN CONTAINMENT/RIDGE CREATION
▧	MARSH FILL
▦	ADDITIONAL MARSH FILL
▤	RIDGE WEDGE



<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>TYPICAL SECTIONS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD. APRIL 11, 2013) SHEET 15 OF 35</p>

- NOTES:**
1. MATERIALS REMOVED BY OTHERS FOR ACCESS.
 2. THE WEIR SHALL BE RECONSTRUCTED AS SHOWN.
 3. SEE SHEET 33 FOR BUOY & SIGN DETAILS.



APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

DESIGNED BY: RUSS JOFFRON, P.E.
 APPROVED BY: MAURY CHATELIER, P.E.
 450 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH
 AND RIDGE CREATION

STATE PROJECT NUMBER: BA-48
 FEDERAL PROJECT NUMBER: BA-48

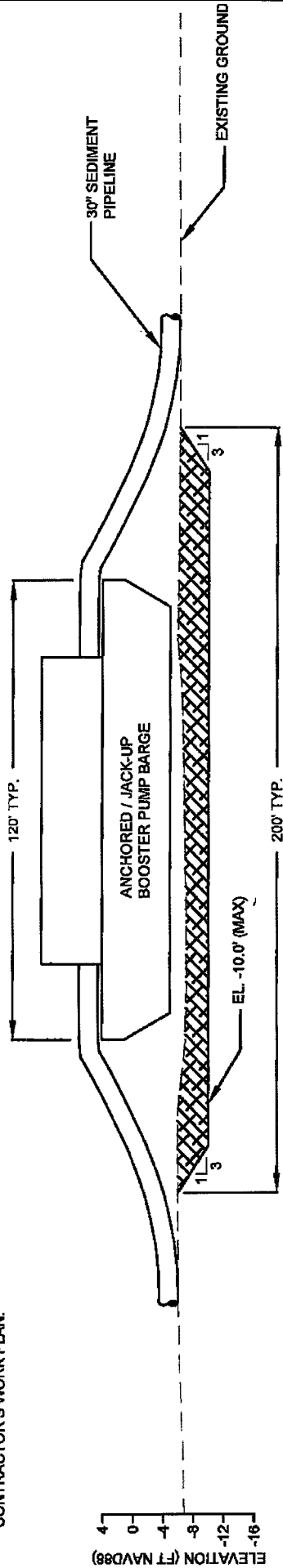
BAYOU DUPONT
 WEIR DETAILS

DATE: JULY 2011
 SHEET 16 OF 35

DRAWN BY: KRISTI CANTU

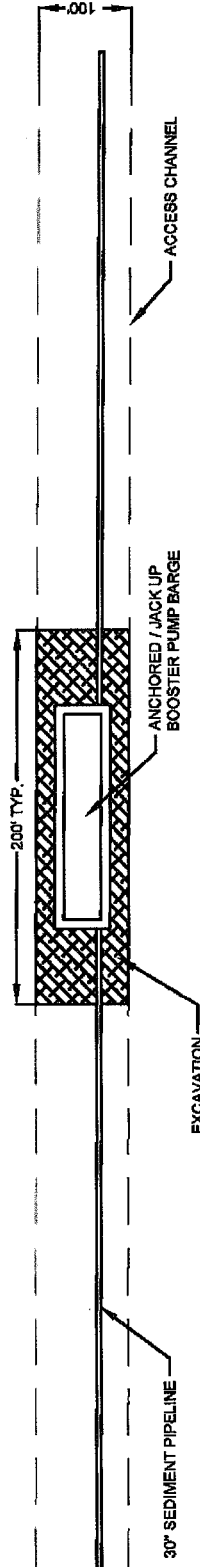
NOTES:

1. BARGE ANCHORS OR JACK-UP LEGS SHALL NOT BE PLACED WITHIN 50' OF ANY EXISTING PIPELINES OR UTILITIES.
2. BOOSTER PUMP LOCATION SHALL BE SUBMITTED IN CONTRACTOR'S WORK PLAN.



BOOSTER PUMP LOCATION PROFILE SECTION

NOT TO SCALE

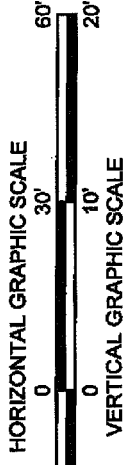
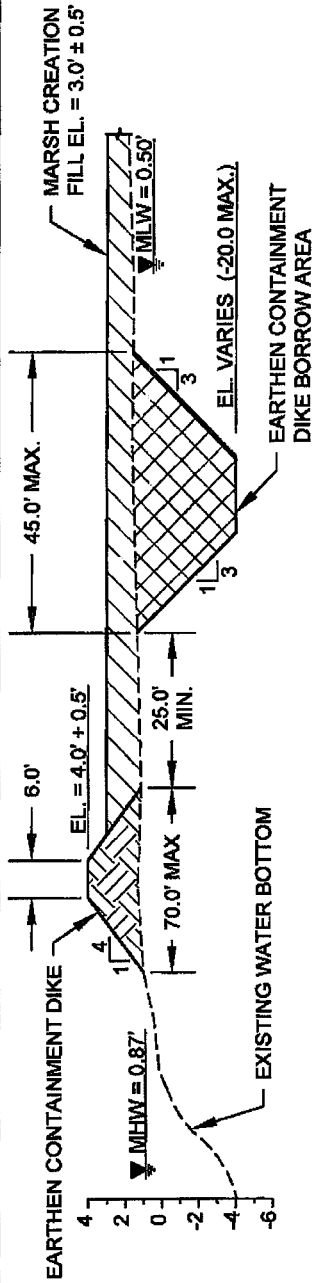


BOOSTER PUMP LOCATION PLAN VIEW

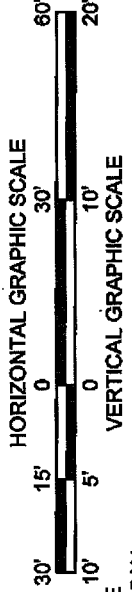
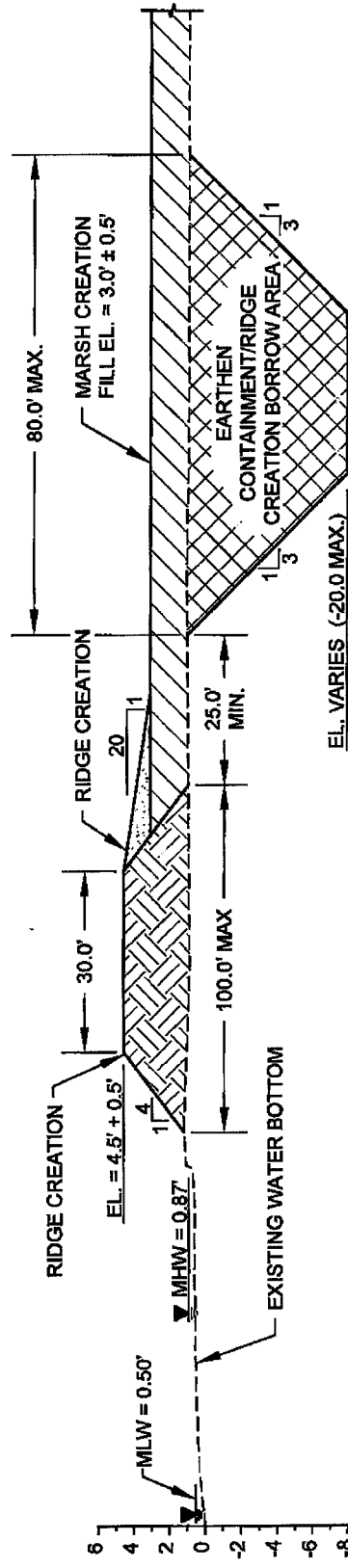
NOT TO SCALE

EXCAVATION FOR BOOSTER COOLING

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA, 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>BOOSTER PUMP SITE TYPICAL DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELLE, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 SHEET 17 OF 35</p>



**EARTHEN CONTAINMENT
DIKE DETAIL**



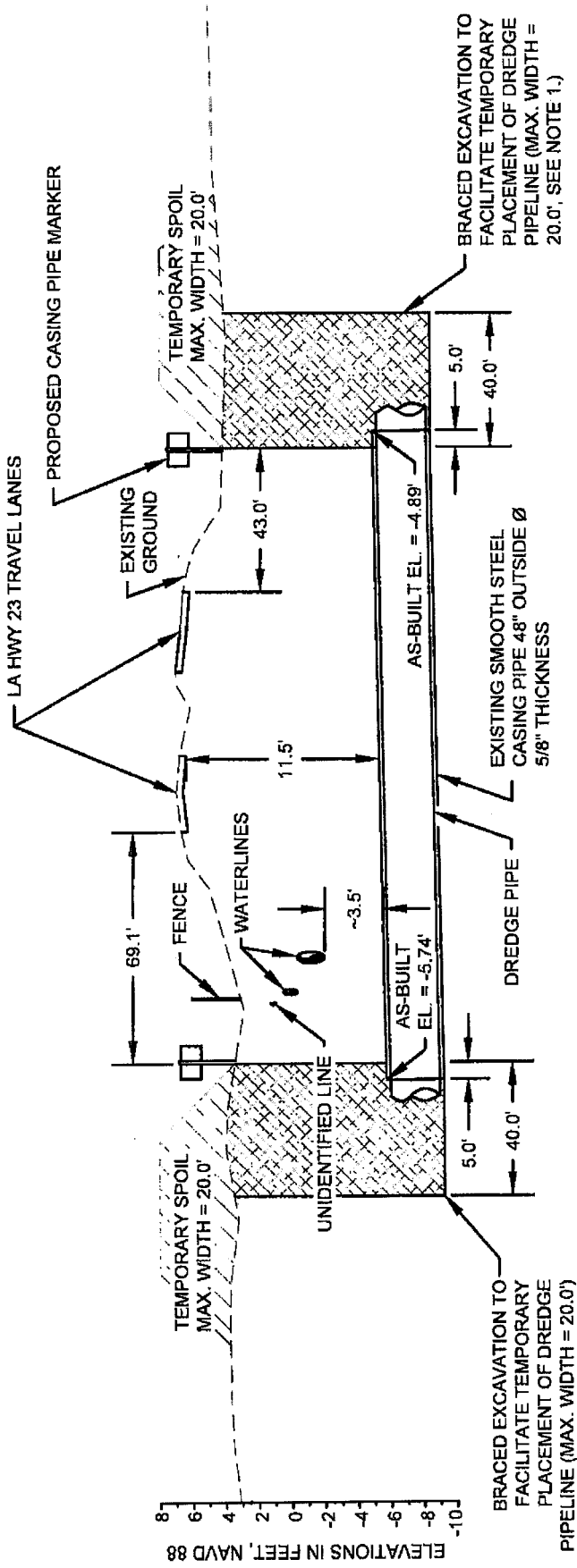
RIDGE CREATION DETAIL

NOTE: ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET.

LEGEND

- EXISTING GROUND/WATER BOTTOM
- ▨ MARSH CREATION (FILL)
- ▩ EARTHEN CONTAINMENT/RIDGE CREATION
- ▧ RIDGE CREATION
- ▦ BORROW AREA

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	EARTHEN CONTAINMENT DIKE AND RIDGE DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48	DATE: JULY 2011 SHEET 16 OF 35



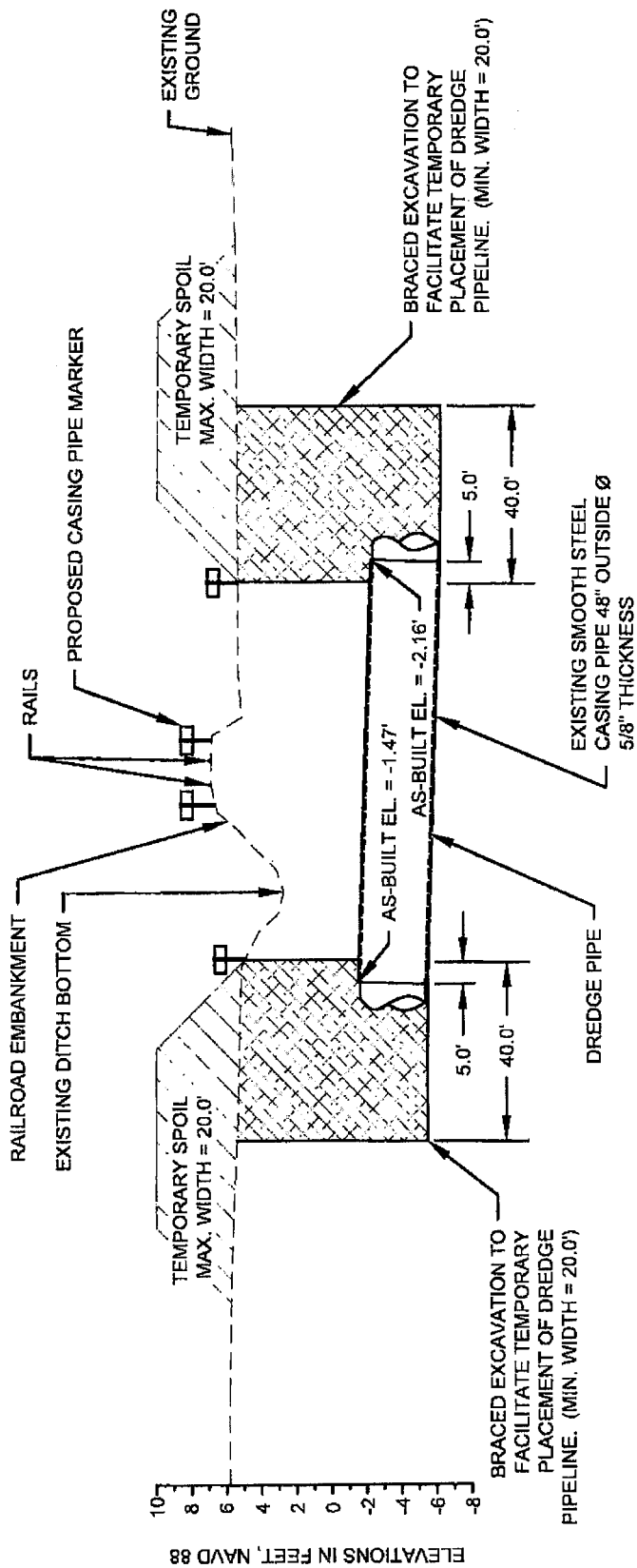
HIGHWAY CROSSING DETAIL

NOTES:

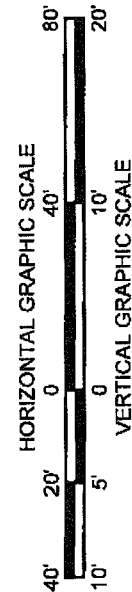
1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
---	EXISTING GROUND
XXXX	BRACED EXCAVATION

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	HIGHWAY CROSSING DETAIL
		DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELLIER P.E.
STATE PROJECT NUMBER: BA-48		DATE: JULY 2011 (MOD. 11/15/12)	
FEDERAL PROJECT NUMBER: BA-48		SHEET 19 OF 35	



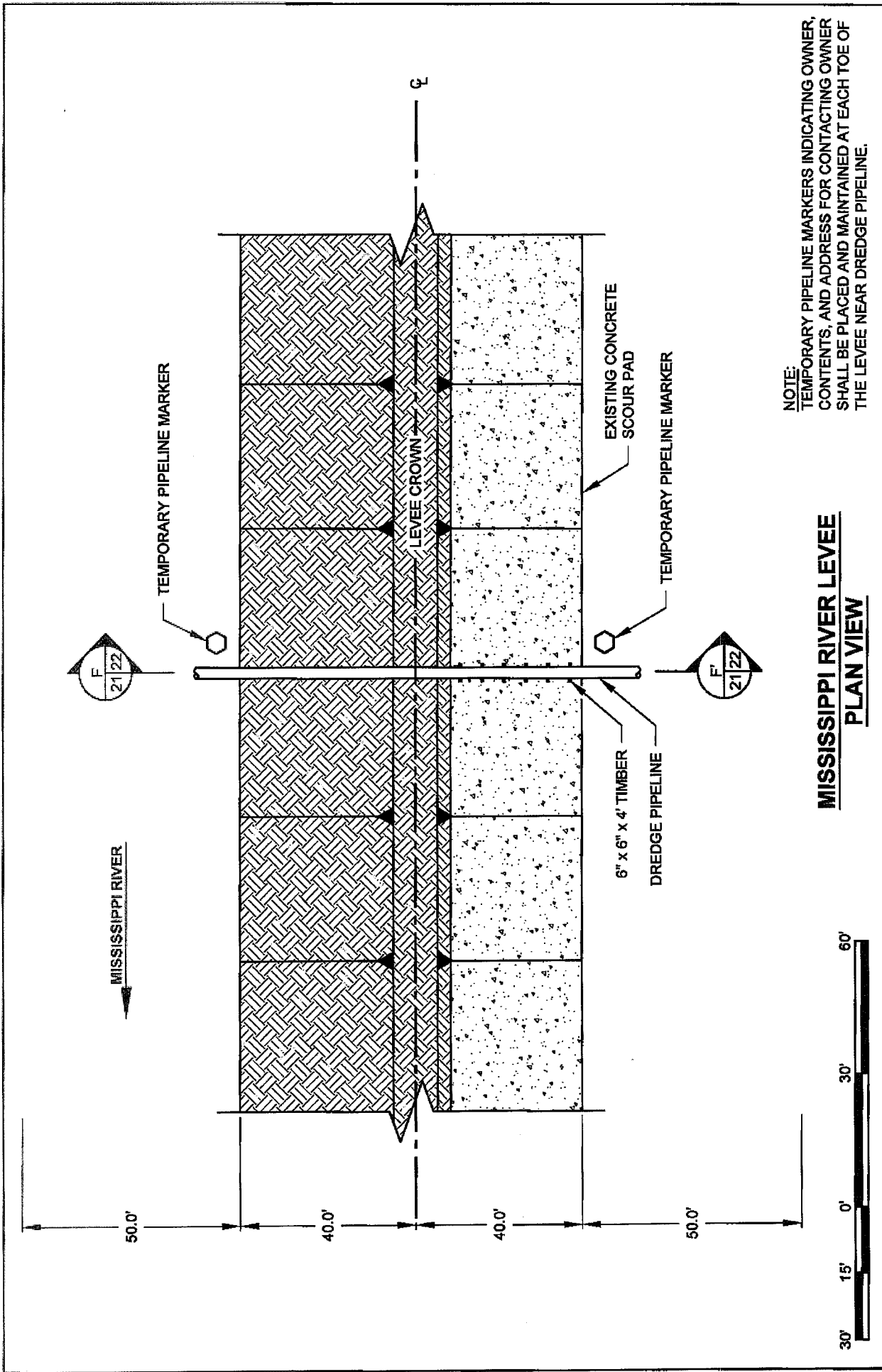
RAILROAD CROSSING DETAIL



- NOTES:**
- TEMPORARY SPOIL SHALL BE PLACED ADJACENT THE EXCAVATION PIT ON BOTH SIDES.
 - THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION PIT AFTER COMPLETION OF CONSTRUCTION.

LEGEND	
---	EXISTING GROUND
[Cross-hatched]	BRACED EXCAVATION
[Diagonal lines]	TEMPORARY SPOIL

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	RAILROAD CROSSING DETAIL
		DESIGNED BY: RUSS JOFFRON, P.E. APPROVED BY: MAURY CHATELIER, P.E.	DATE: JULY 2011 (MOD. 11/15/12)
DRAWN BY: KRISTI CANTU	STATE PROJECT NUMBER: BA-48	FEDERAL PROJECT NUMBER: BA-48	SHEET 20 OF 35

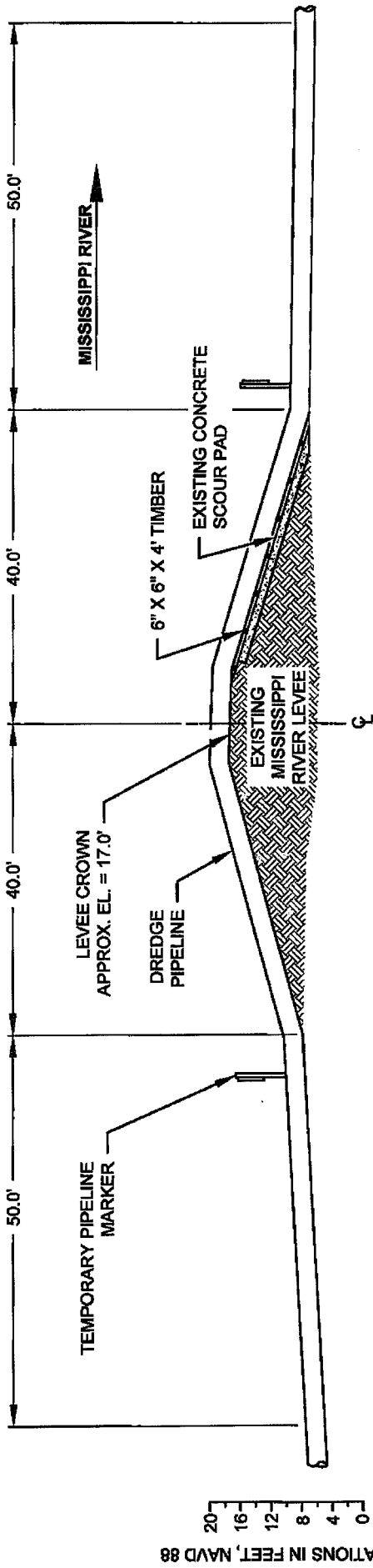


NOTE:
 TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

**MISSISSIPPI RIVER LEVEE
 PLAN VIEW**



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUJONP MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48	MISSISSIPPI RIVER LEVEE CROSSING DETAIL DATE: JULY 2011 (MOD DECEMBER 2011)
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.		SHEET 21 OF 35



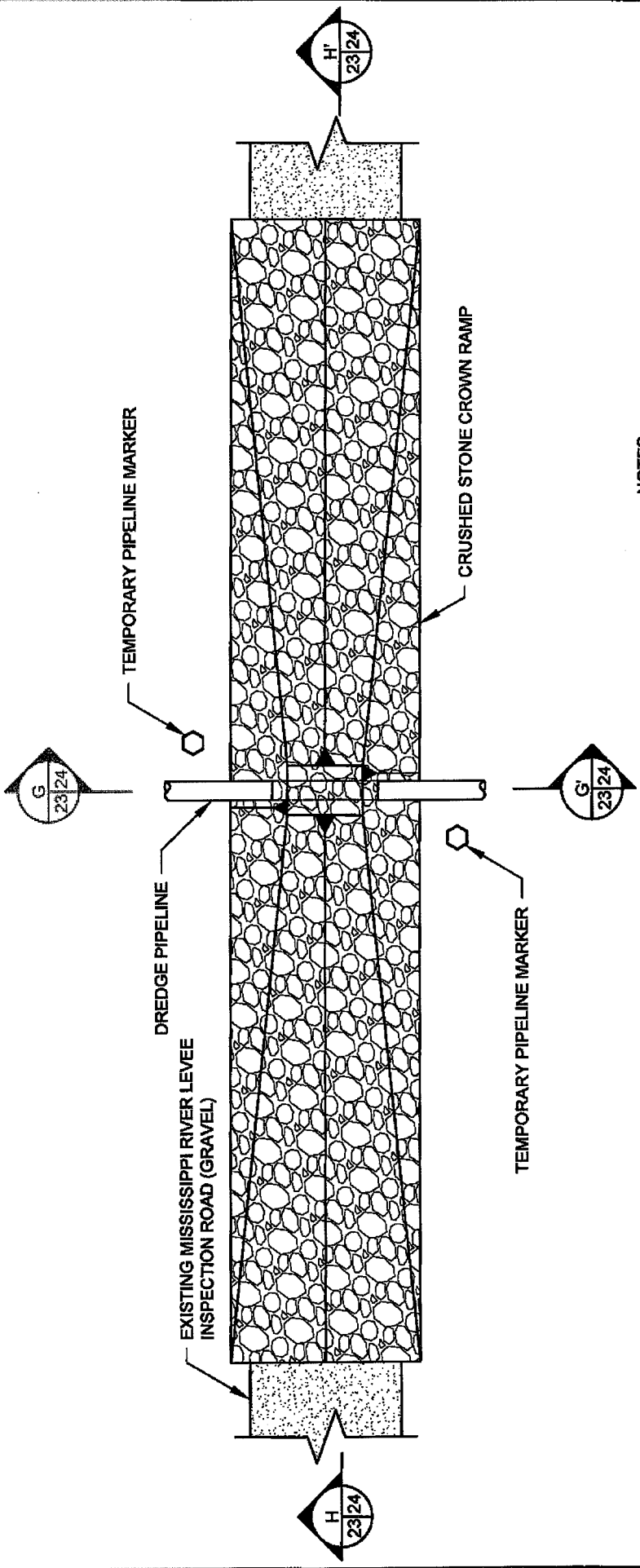
ELEVATIONS IN FEET, NAVD 88
 20
 16
 12
 8
 4
 0



SECTION F-F

- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.
 2. NO EXCAVATION NEAR MISSISSIPPI RIVER AND TRIBUTARY LEVEE.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICES LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	MISSISSIPPI RIVER LEVEE CROSSING DETAIL
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 22 OF 35



- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

**MISSISSIPPI RIVER LEVEE
INSPECTION ROAD
PLAN VIEW**

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICES
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DESIGNED BY: RUSS JOFFRION, P.E. | APPROVED BY: MAURY CHATELLIER, P.E.

DRAWN BY: KRISTI CANTU

BAYOU DUPONT MARSH
AND RIDGE CREATION

LEVEE INSPECTION ROAD
CROSSING DETAIL

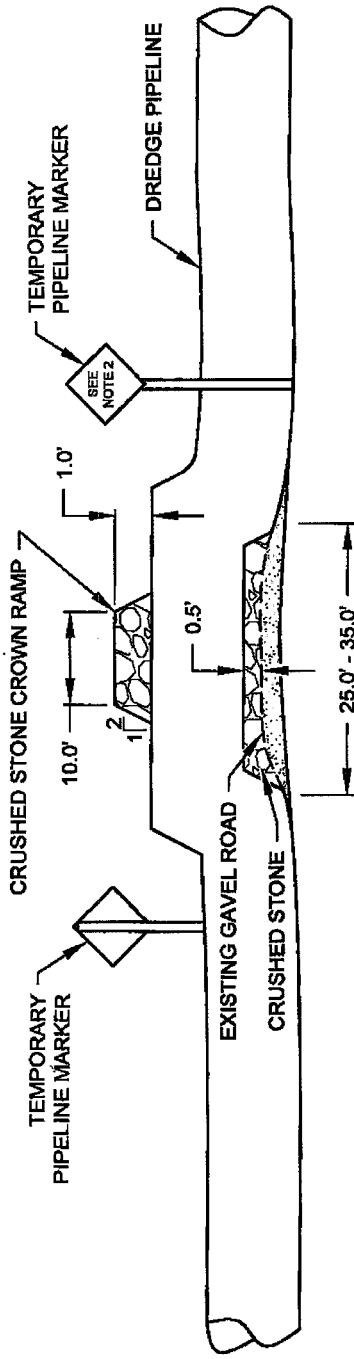
STATE PROJECT NUMBER: BA-48

DATE: JULY 2011

FEDERAL PROJECT NUMBER: BA-48

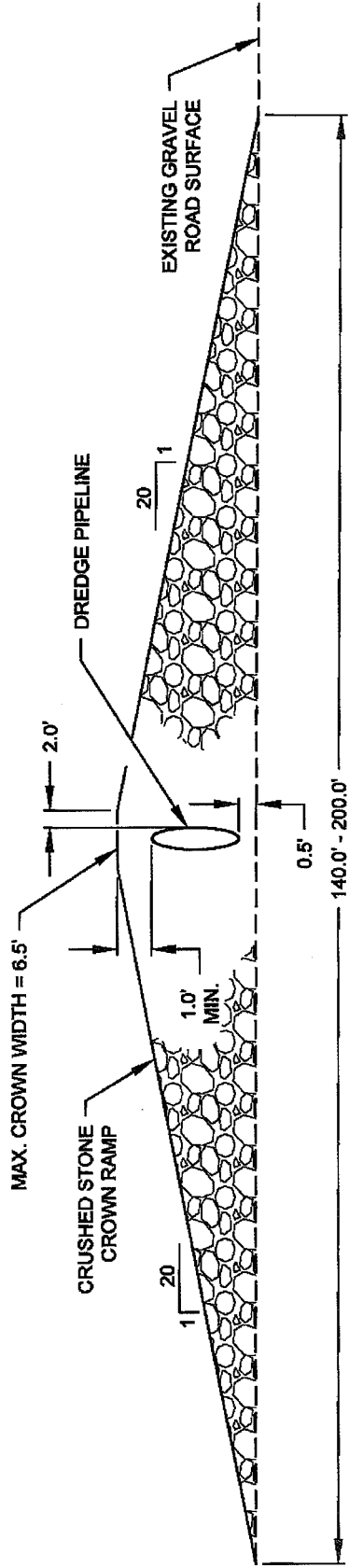
SHEET 23 OF 95

ELEVATIONS IN FEET, NAVD 88

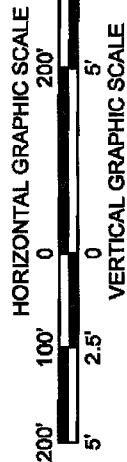


SECTION G-G'

ELEVATIONS IN FEET, NAVD 88



SECTION H-H'



NOTES:

- MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
- TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

APPLICATION BY:
 NATIONAL MARINE FISHERIES SERVICE
 LSU, SOUTH STADIUM DRIVE
 BATON ROUGE, LA 70803

COASTAL PROTECTION AND RESTORATION AUTHORITY
 460 LAUREL STREET
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.

BAYOU DUPONT MARSH AND RIDGE CREATION

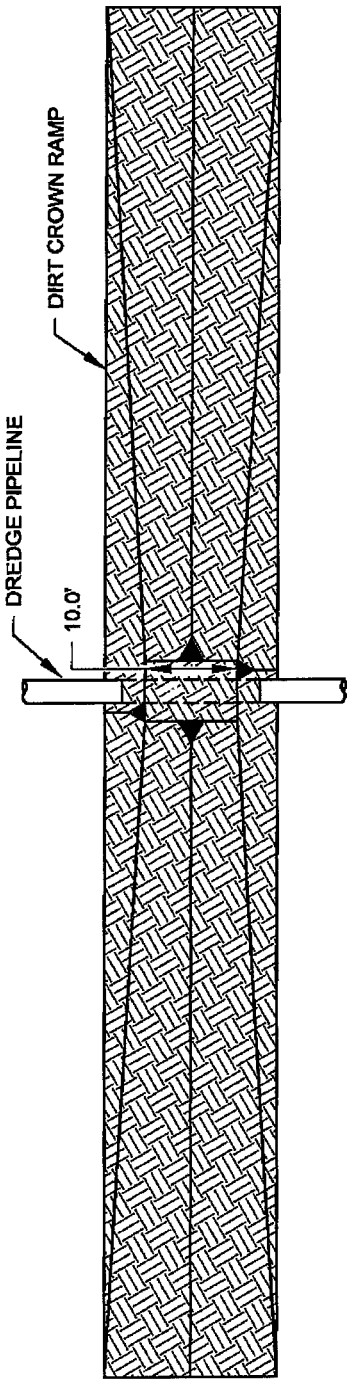
LEVEE INSPECTION ROAD CROSSING DETAILS

DATE: JULY 2011

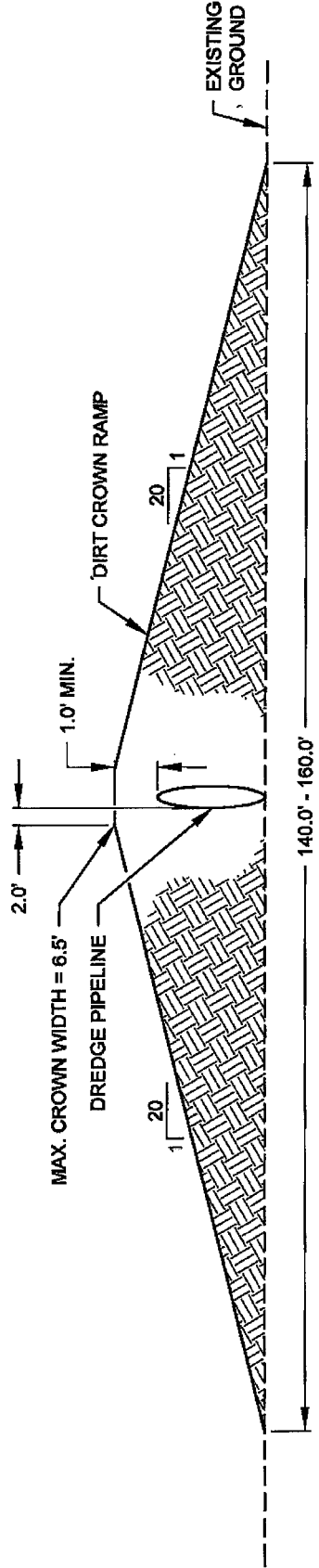
STATE PROJECT NUMBER: BA-48

FEDERAL PROJECT NUMBER: BA-48

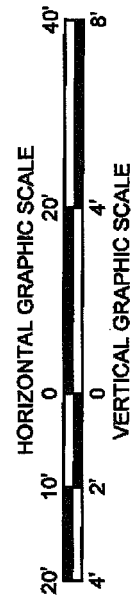
SHEET 24 OF 36



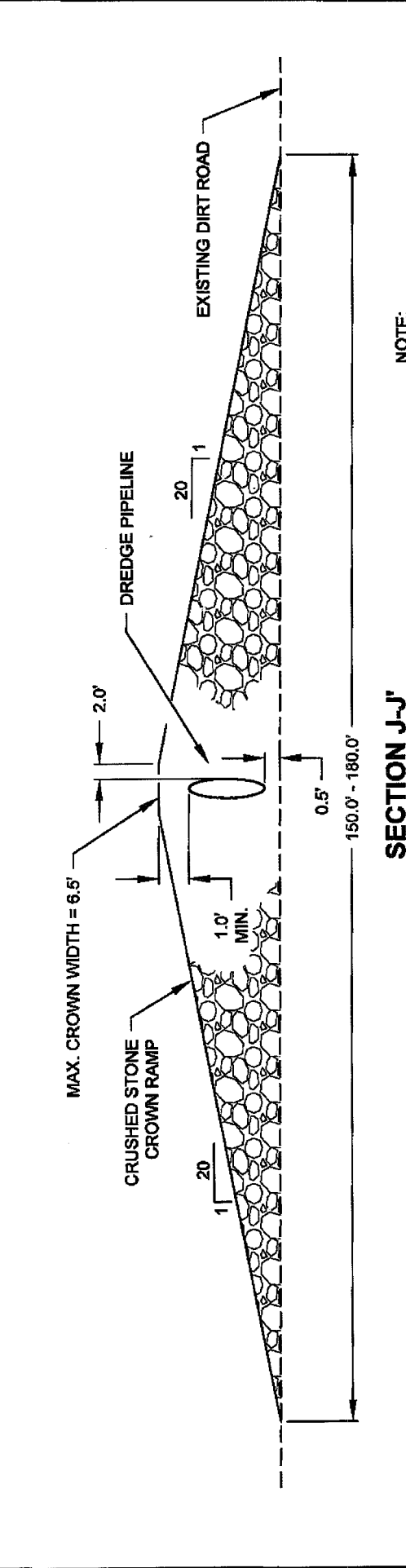
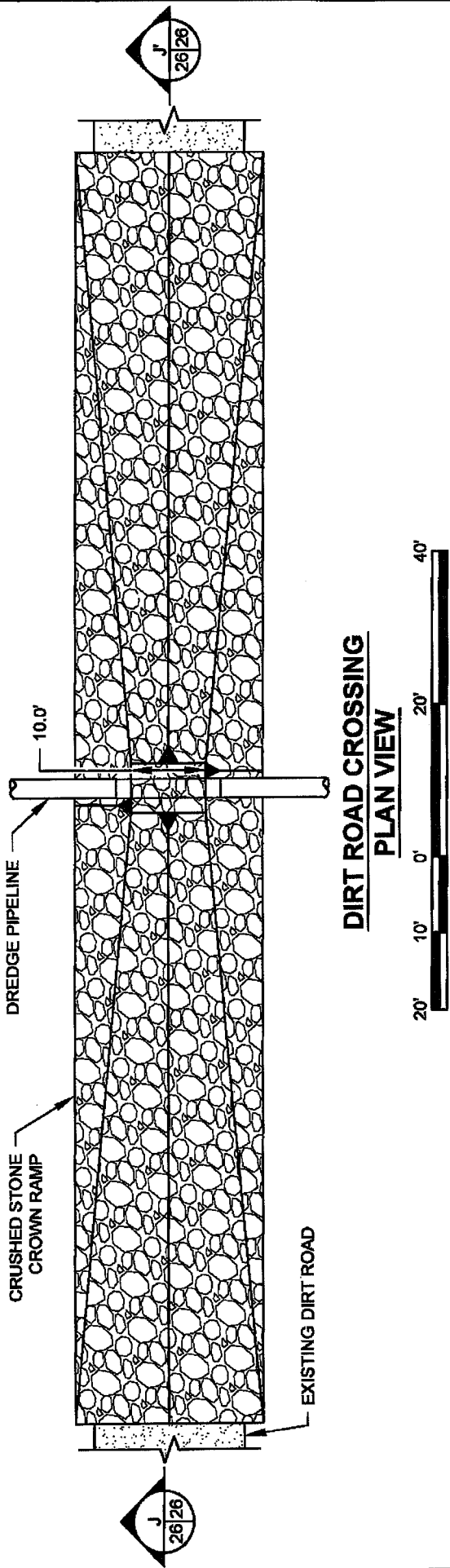
CATTLE CROSSING PLAN VIEW



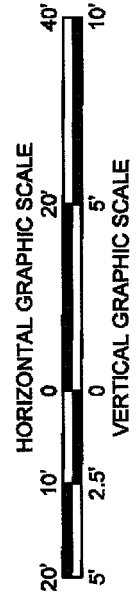
SECTION I-I'



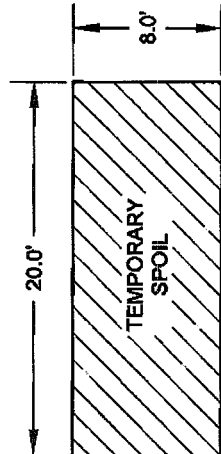
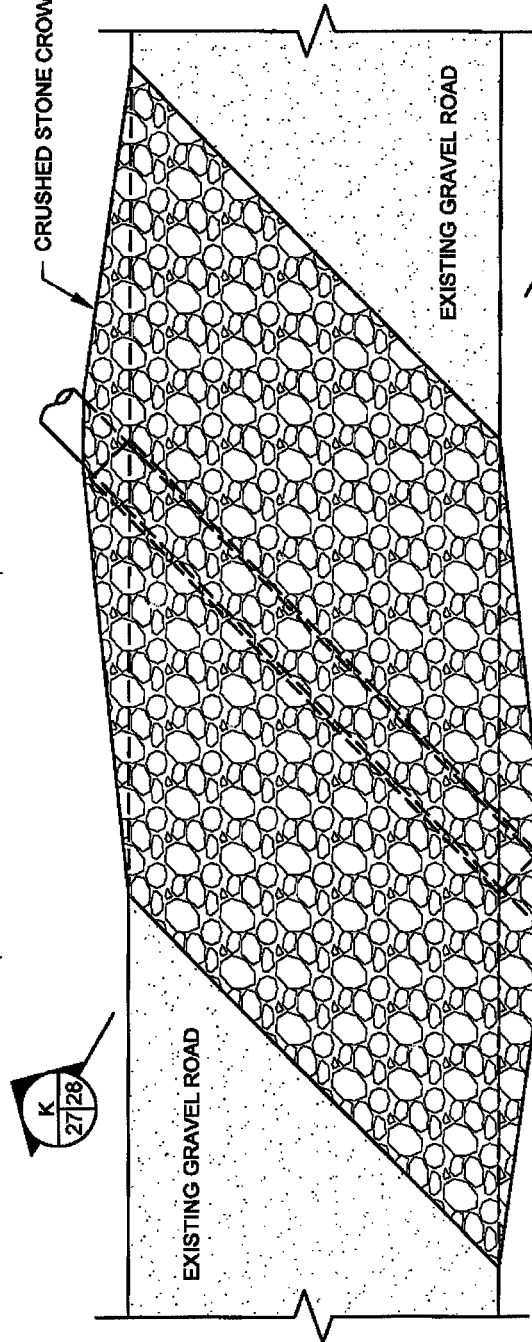
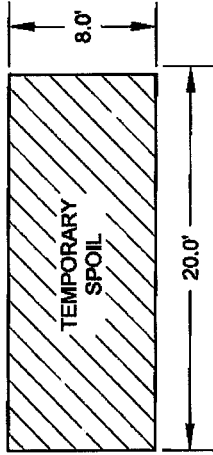
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	CATTLE CROSSING DETAILS DATE: JULY 2011 SHEET 25 OF 35
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELIER, P.E.		



NOTE:
THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).



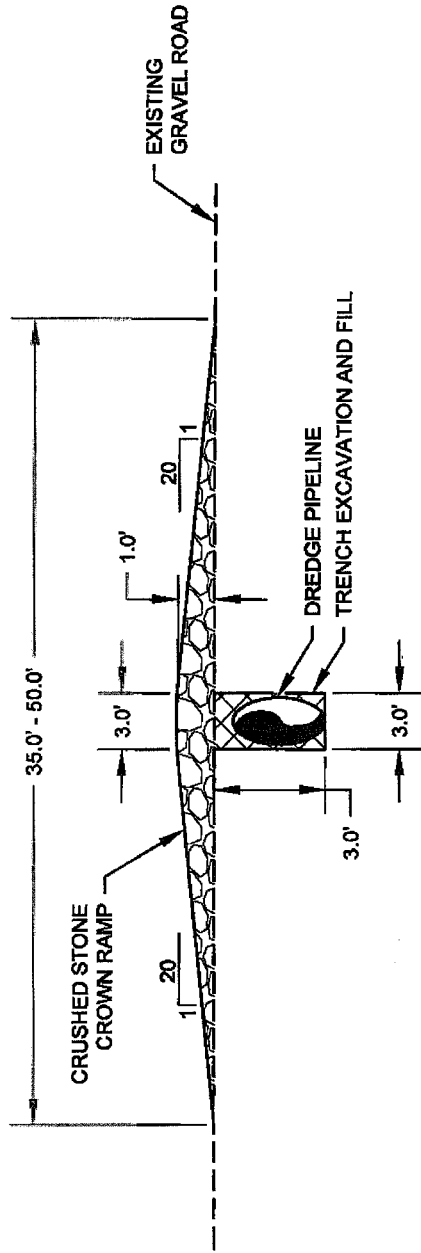
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSI SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DIRT ROAD CROSSING DETAILS DATE: JULY 2011 SHEET 26 OF 36
DESIGNED BY: RUSS JOFFRION, P.E.	APPROVED BY: MAURY CHATELLIER, P.E.	DRAWN BY: KRISTI CANTU



**GRAVEL ROAD CROSSING
PLAN VIEW**

- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. AFTER CONSTRUCTION THE DREDGE PIPELINE SHALL BE REMOVED AND THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO THE TRENCH. THE ROAD SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 460 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUJONPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	GRAVEL ROAD CROSSING DETAIL DATE: JULY 2011 SHEET 27 OF 35
DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.		DRAWN BY: KRISTI CANTU	

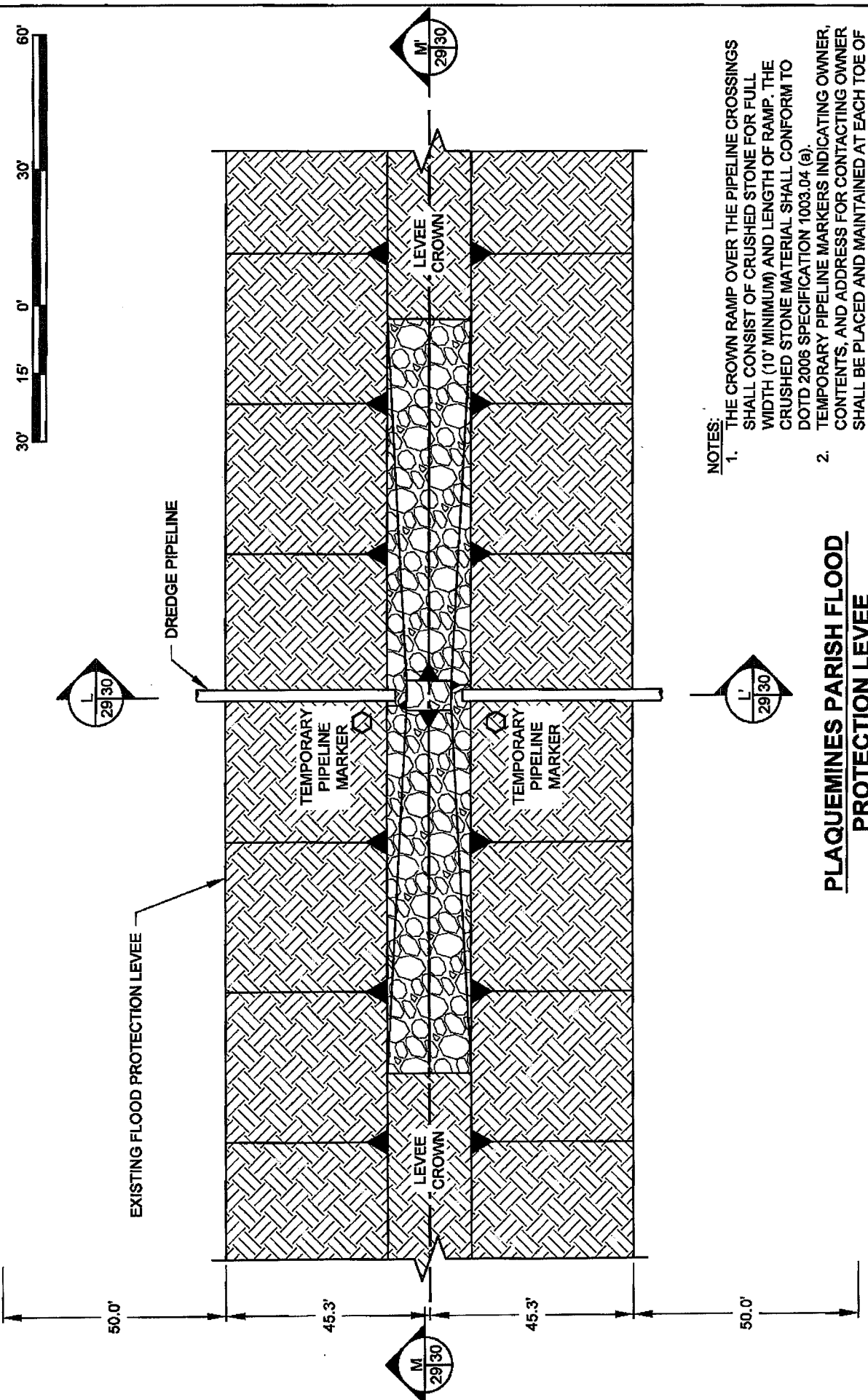


NOTE:
 THE CROWN RAMP OVER THE PIPELINE
 CROSSINGS SHALL CONSIST OF CRUSHED STONE
 FOR FULL WIDTH AND LENGTH OF RAMP. THE
 CRUSHED STONE MATERIAL SHALL CONFORM TO
 DOTD 2006 SPECIFICATION 1003.04 (a).



SECTION K-K'

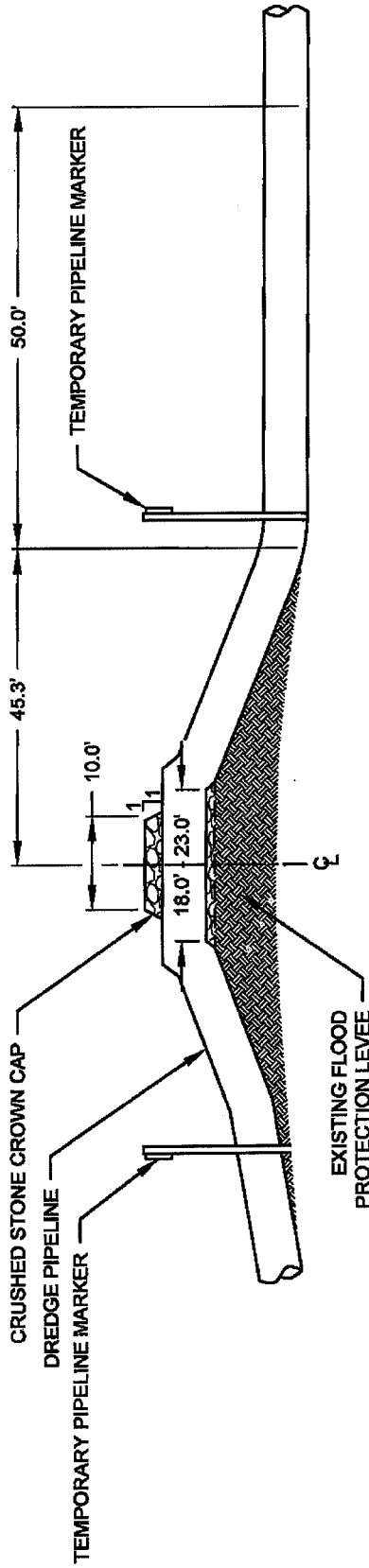
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 460 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	GRAVEL ROAD CROSSING DETAIL DATE: JULY 2011 SHEET 28 OF 36
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. / APPROVED BY: MAURY CHATELLIER, P.E.		



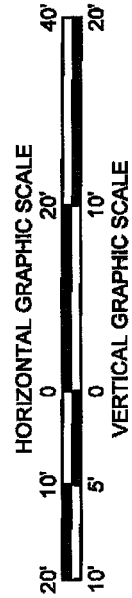
- NOTES:**
1. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH (10' MINIMUM) AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO DOTD 2006 SPECIFICATION 1003.04 (a).
 2. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER, SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR DREDGE PIPELINE.

PLAQUEMINES PARISH FLOOD PROTECTION LEVEE

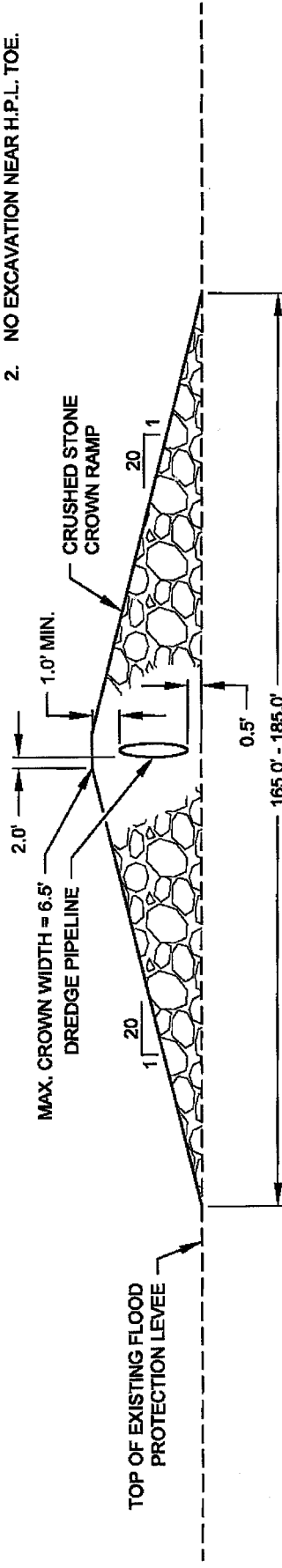
APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION	FLOOD PROTECTION LEVEE CROSSING DETAILS
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.	STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 28 OF 35



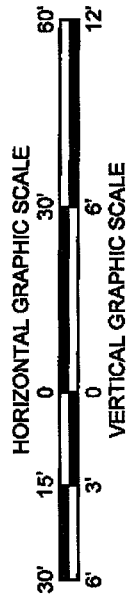
SECTION L-L'



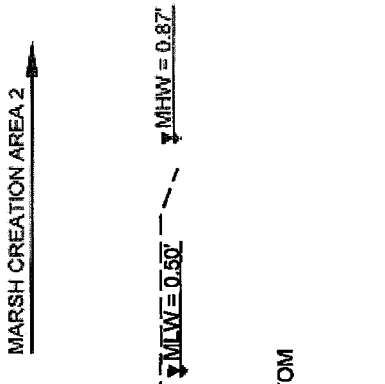
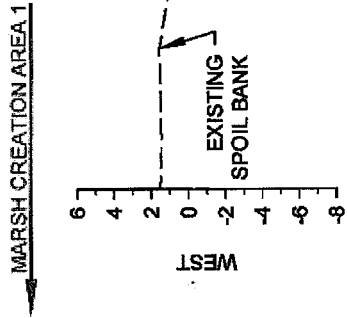
- NOTES:**
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF THE LEVEE NEAR THE DREDGE PIPELINE.
 2. NO EXCAVATION NEAR H.P.L. TOE.



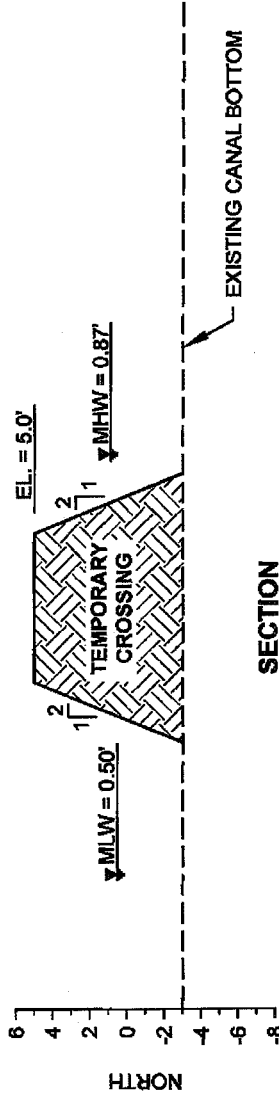
SECTION M-M'



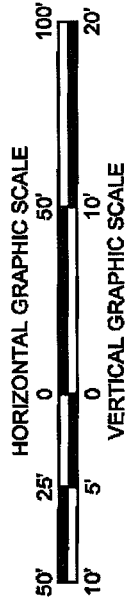
<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU, SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>FLOOD PROTECTION LEVEL CROSSING DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRON, P.E. / APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 (MOD DECEMBER 2011) SHEET 30 OF 35</p>



**PROFILE
TEMPORARY CROSSING**



**SECTION
TEMPORARY CROSSING**



NOTES:

1. THE TEMPORARY CROSSING SHALL BE CONSTRUCTED USING MATERIAL HYDRAULICALLY DREDGED FROM THE BORROW AREA IN THE MISSISSIPPI RIVER.
2. TEMPORARY CROSSINGS SHALL BE REMOVED PRIOR TO DEMOBILIZATION.

APPLICATION BY:
NATIONAL MARINE FISHERIES SERVICE
LSU, SOUTH STADIUM DRIVE
BATON ROUGE, LA 70803

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

BAYOU DUPONT MARSH
AND RIDGE CREATION

TEMPORARY CANAL
CROSSING DETAILS

DRAWN BY: KRISTI CANTU

DESIGNED BY: RUSS JOFFRON, P.E.

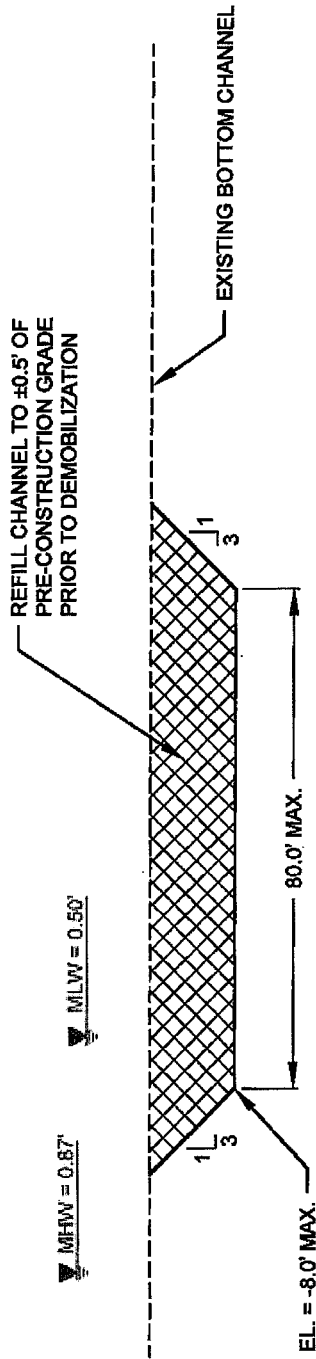
APPROVED BY: MAURY CHATELLIER, P.E.

STATE PROJECT NUMBER: BA-48

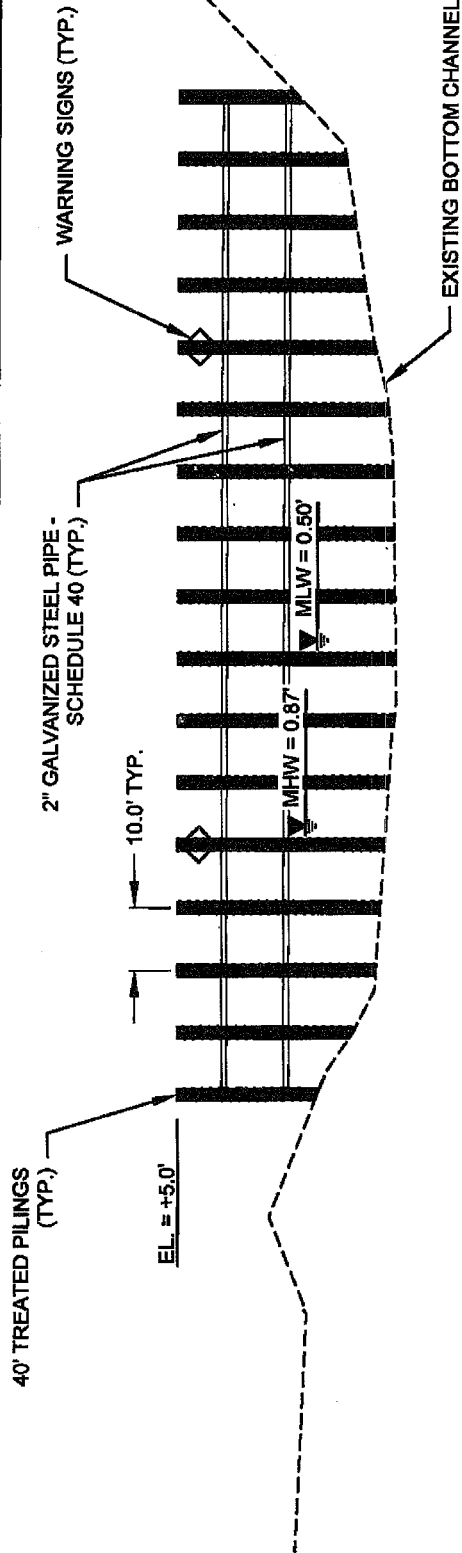
DATE: JULY 2011

FEDERAL PROJECT NUMBER: BA-48

SHEET 31 OF 35



TYPICAL CHANNEL SILL DETAIL

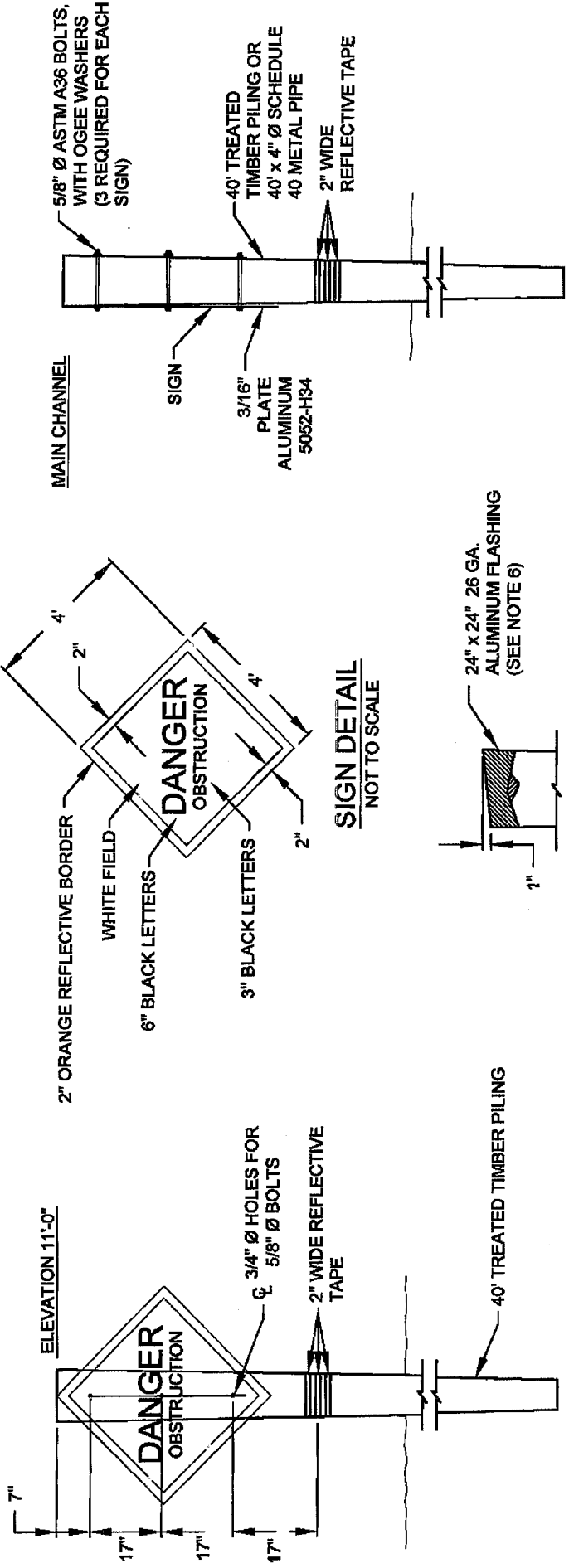


TYPICAL ACCESS RESTRICTION DETAIL

NOTE:
REMOVE AND REPLACE
EXISTING TIMBER PILES USED
FOR ACCESS RESTRICTIONS.



APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	CANAL SILL AND ACCESS RESTRICTION DETAILS DATE: JULY 2011 SHEET 32 OF 35
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.		



WARNING SIGN ELEVATION
NOT TO SCALE

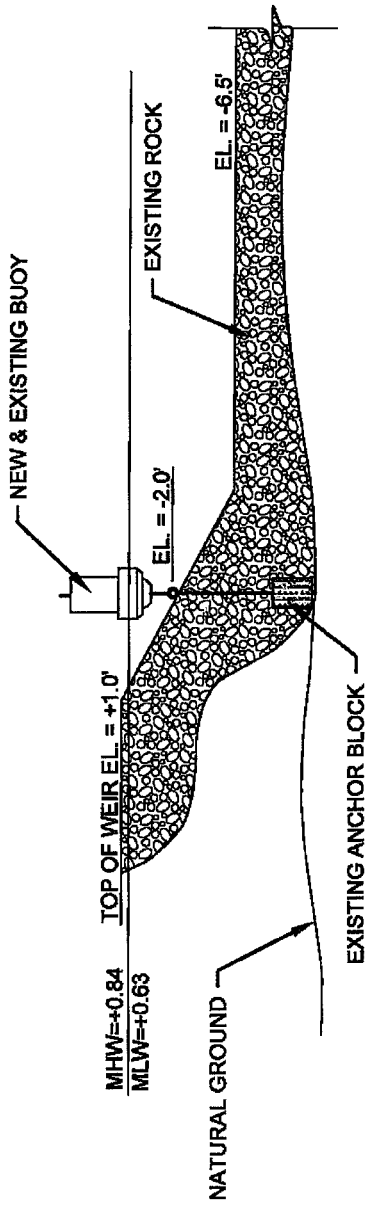
TYPICAL TIMBER PILE CAP
NOT TO SCALE

WARNING SIGN SIDE DETAIL
NOT TO SCALE

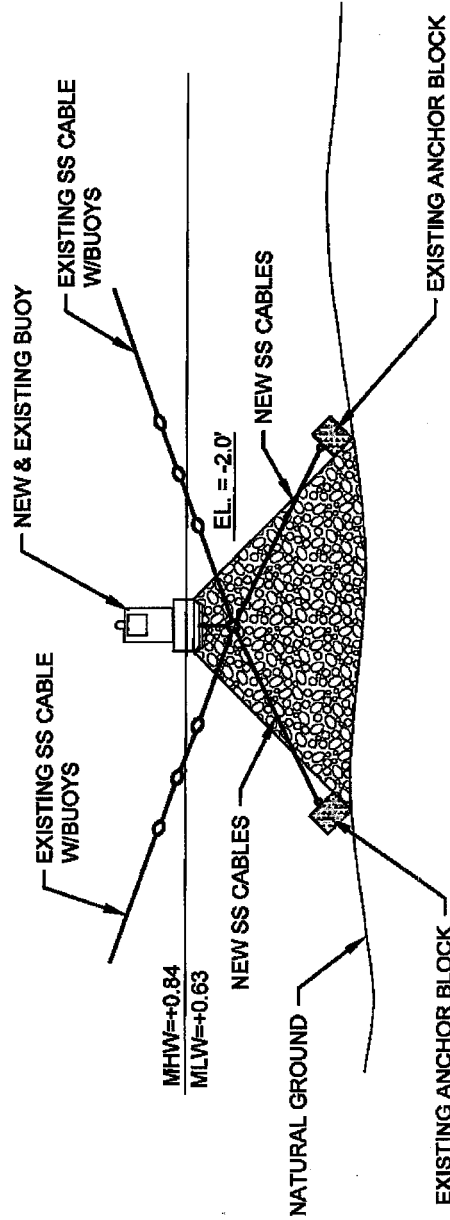
WARNING SIGN NOTES:

1. FORTY-TWO (42) PERMANENT WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 3 - 8. THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1) WHICH CAN BE DOWNLOADED AT http://www.access.gpo.gov/nara/cfr/waisidx_02/33cfr330_02.html
2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
4. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AMPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
5. TIMBER PILING SHALL BE 40' IN LENGTH WITH A NOMINAL 12" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
6. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	BAYOU DUPONT MARSH AND RIDGE CREATION STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48	SIGN DETAILS DATE: JULY 2011 SHEET 33 OF 35
DRAWN BY: KRISTI CANTU	DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.		



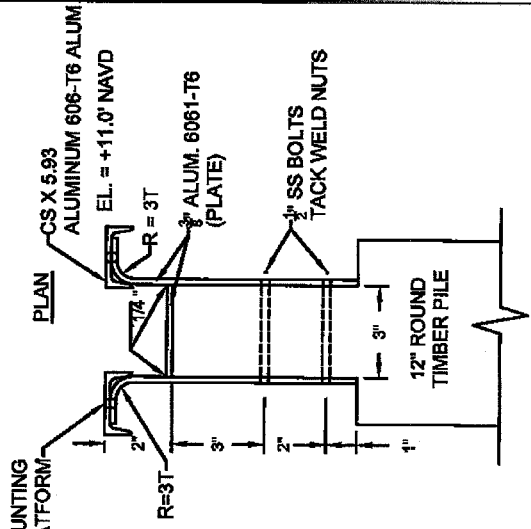
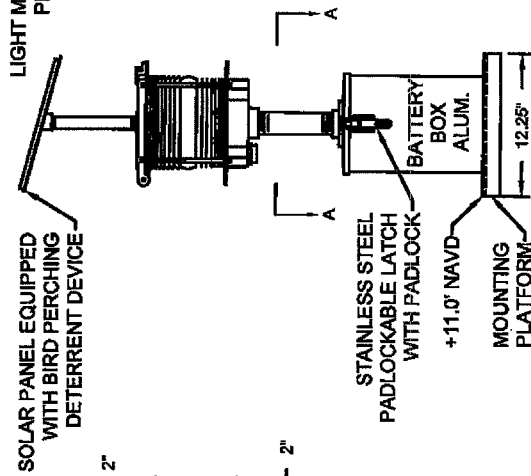
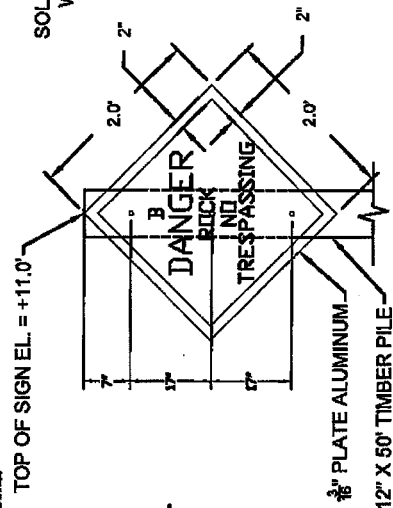
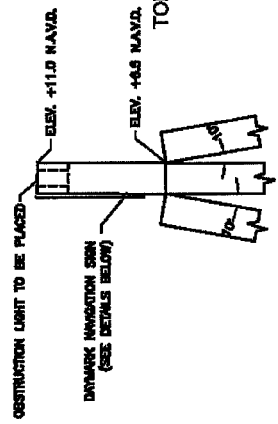
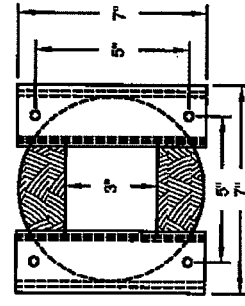
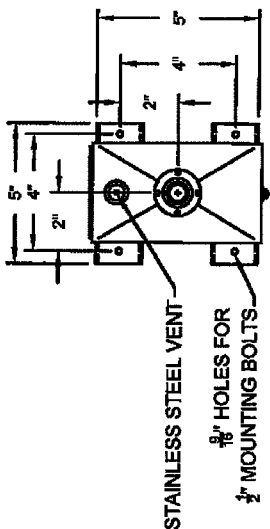
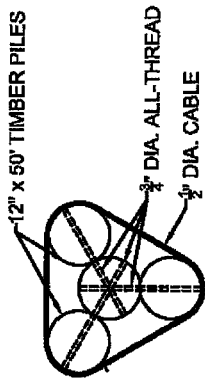
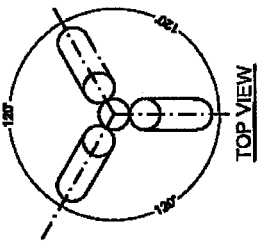
**ELEVATION - BUOY DETAILS
TYPE A**



**SECTION - BUOY DETAILS
TYPE A**

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE 1501 SOUTH STATE UNIVERSITY DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>BUOY DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E. APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48 FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011 SHEET 34 OF 35</p>

- NOTES:**
1. ALL 3/4" DIA. ALL-THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE OGEE WASHERS AND TACK WELDED NUTS.
 2. 8 WRAPS OF 1/2" DIA. CABLE MEETING ASTM A-416 AND ASTM A-882/A-882M-92 BETWEEN THE 3-3/4" DIA. ALL-THREAD ASTM A-815 GR80 GALVANIZED AND EPOXY COATED TIE RODS.
 3. THE 1/2" DIA. CABLE SHALL BE SECURED USING 3 STAINLESS STEEL CLAMPS.
 4. THE 3/4" DIA. ALL-THREAD TIE RODS SHALL BE A MINIMUM OF 6" BELOW TOP OF BATTER PILE AND AND 3" VERTICAL CLEARANCE FROM ADJACENT TIE ROD.
 5. TIMBER PILING SHALL BE 50 FEET IN LENGTH WITH A NOMINAL 12-INCH DIAMETER BUTT AND 7-INCH MINIMUM DIAMETER AT THE TIP.



- NOTES:**
1. SEE SHEETS 4-7 FOR SIGN PLACEMENT LOCATIONS.
 2. ALL DAYMARK NAVIGATION AIDES SHALL ABIDE BY U.S.C.G. REGULATIONS.
 3. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3-5/8" X 8" STAINLESS STEEL LAG SCREW WITH 1 1/4" O.D. STAINLESS STEEL WASHER.
 4. SIGNS A, B, AND D SHALL BE INSTALLED ON SINGLE 60 PILES.

<p>APPLICATION BY: NATIONAL MARINE FISHERIES SERVICE LSU SOUTH STADIUM DRIVE BATON ROUGE, LA 70803</p>	<p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p>	<p>BAYOU DUPONT MARSH AND RIDGE CREATION</p>	<p>NAVIGATIONAL AID DETAILS</p>
<p>DRAWN BY: KRISTI CANTU</p>	<p>DESIGNED BY: RUSS JOFFRION, P.E.</p>	<p>STATE PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011</p>
<p>APPROVED BY: MAURY CHATELLIER, P.E.</p>	<p>FEDERAL PROJECT NUMBER: BA-48</p>	<p>DATE: JULY 2011</p>	<p>SHEET 35 OF 35</p>

BOBBY JINDAL
GOVERNOR



STEPHEN CHUSTZ
INTERIM SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

April 24, 2013

Kodi Collins P.E.
Project Manager
P. O. Box 44027
Baton Rouge, LA 10804-4027

RECEIVED
2013 APR 25 P 1:57
C211A

RE: **C20100273 Mod 2, Coastal Zone Consistency
NMFS
Direct Federal Action
Bayou Dupont Marsh and Ridge Creation CWPPRA Project BA-48; modification to
expand marsh creation by 82 acres with 887,475 cubic yards of dredge material from a
borrow pit in the Mississippi River, **Jefferson and Plaquemines Parishes, Louisiana.****

Dear Ms. Collins:

The above proposed modification has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. The modification, as represented in this application, is consistent with the LCRP. If you have any questions concerning this determination please contact Brian Marcks of the Consistency Section at (225)342-7939 or 1-800-267-4019.

Sincerely,

A handwritten signature in blue ink, appearing to read "Don Haydel".

Don Haydel
Acting Administrator
Interagency Affairs/Field Services Division

DH/JDH/bgm

cc: David Butler, LDWF
Richard Hartman, NMFS
Martin Mayer, NOD-COE
Frank Cole, CMD/FI
Jason Smith, Jefferson Parish
Albertine Kimble, Plaquemines Parish