

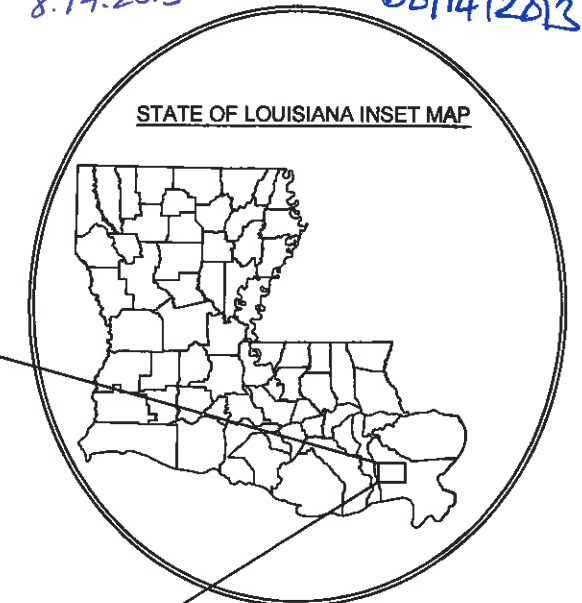
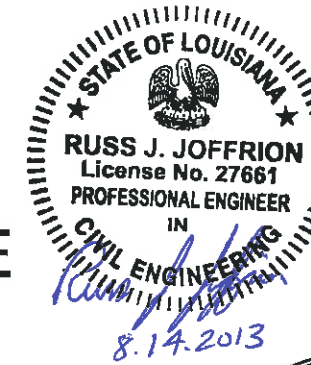
STATE OF LOUISIANA  
COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER  
LONG DISTANCE  
SEDIMENT PIPELINE  
BA-43 EB

BAYOU DUPONT  
MARSH AND RIDGE  
CREATION  
BA-48

JEFFERSON & PLAQUEMINES PARISHES, LOUISIANA

FINAL BID SET



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*Maury Chatellier*  
CHIEF - ENGINEERING DIVISION

*Russ J. Joffrion*  
ENGINEER MANAGER

*Kodi Collins*  
PROJECT ENGINEER



LICENSURE CLASSIFICATION REQUIREMENTS  
MAJOR CATEGORY: HEAVY CONSTRUCTION

| REV. | DATE    | DESCRIPTION       | BY |
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| 1    | 8/14/13 | MODIFIED SHEET 81 | SA |

MOFFATT & NICHOL  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

TITLE SHEET

DATE: MARCH 8, 2013

DRAWN BY: YC

DESIGNED BY: SA & RJ

APPROVED BY: MAURY CHATELLIER, P.E.

SHEET 1 OF 81

**GENERAL NOTES:**

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET).
- BACKGROUND AERIAL IMAGES SHOWN ON THE PLANS ARE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER OF 2010.
- FILL AREA SURVEY DATA SHOWN ON THE PLANS IS BASED ON FIELD SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH AND IN OCTOBER 2008 BY PBS&J. ESTIMATED FILL QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND ARE BASED ON THESE SURVEYS. QUANTITIES WERE CALCULATED USING AUTOCAD DIGITAL TERRAIN MODELS.
- FOUR CPRA SECONDARY BENCHMARKS WERE USED AS HORIZONTAL AND VERTICAL SURVEY CONTROL FOR ALL FILL AREA SURVEYS: BA41-SM-01, BA23-SM-02, BA03C-SM-01 & BA03C-SM-02. ONE OR MORE OF THESE BENCHMARKS WERE USED FOR DAY-TO-DAY CONTROL BASED ON THEIR PROXIMITY TO THE SURVEY.
- BORROW AREAS SURVEY DATA SHOWN ON PLANS IS BASED ON MULTI-BEAM BATHYMETRIC SURVEYS PERFORMED BY OCEAN SURVEYS INC. ON AUGUST 17, 2011 AND USACE SURVEY PERFORMED ON NOVEMBER 29, 2012.
- THE CORRIDOR AND MARSH CREATION SITES AND MISSISSIPPI RIVER BORROW AREAS MAY BE REVISED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM ACCESS WATER BODY TO THE PROJECT AREA. DREDGING IS ONLY ALLOWED WITHIN THE LIMITS SHOWN ON THE PLANS. THE ENGINEER OR RESIDENT PROJECT REPRESENTATIVE SHALL MONITOR THE EQUIPMENT LOCATION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE AND UTILITY OPERATORS 72 HOURS IN ADVANCE OF THE WORK. DREDGE PIPELINES IN OPEN WATER SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 500 FEET OF ANY PIPELINE IN THE MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL LOUISIANA ONE CALL AT 1-800-272-3028 5 DAYS PRIOR TO EXCAVATION TO LOCATE ANY OTHER PIPELINES OR UTILITY.

**SHELL OIL PIPELINE**  
CONTACT: FLETCHER PUDERER  
PHONE: (504) 416-4011

**PLAINS PIPELINE, L.P.**  
CONTACT: FRANK CARDEN  
PHONE: (713) 646-4692

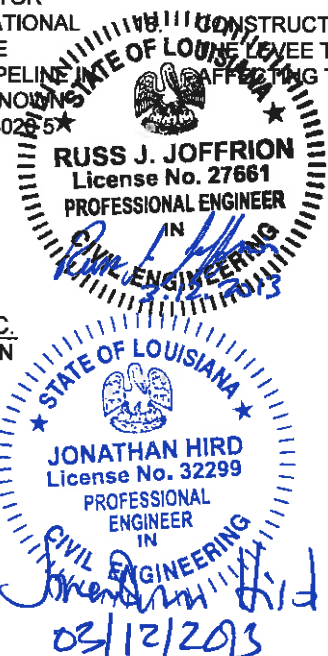
**ENERGY SUBMERGED TRANSMISSION LINE**  
CONTACT: GARY HERGERT  
PHONE: (985) 850-1253

**ENERGY OVERHEAD TRANSMISSION LINE**  
CONTACT: JOSEPH GIAMMALVA  
PHONE: (504) 219-4207

**RIO GRANDE PACIFIC**  
CONTACT: JOHNNY HYDES  
PHONE: (504) 458-1075

**ENBRIDGE PIPELINES (LOUISIANA INTERSTATE) INC.**  
CONTACT: LEONARD MORRISON  
PHONE: (713) 353-5609

**MIDCOAST LOUISIANA LIQUIDS INC.**  
CONTACT: HENRY LEGER  
PHONE: (337) 572-3771



**ABBREVIATIONS:**

- |           |                                       |
|-----------|---------------------------------------|
| AC        | ACRES                                 |
| AHP       | ABOVE HEAD OF PASSES                  |
| LDSP      | LONG DISTANCE SEDIMENT PIPELINE       |
| LWRP      | LOW WATER REFERENCE PLANE             |
| MCY       | MILLION CUBIC YARDS                   |
| MHW       | MEAN HIGH WATER                       |
| MLW       | MEAN LOW WATER                        |
| MR        | MISSISSIPPI RIVER                     |
| MRT LEVEE | MISSISSIPPI RIVER & TRIBUTARIES LEVEE |
| SP        | SETTLEMENT PLATE                      |
| UON       | UNLESS OTHERWISE NOTED                |

- PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
- ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
- DATA FROM CPRA GAGE BA03C-CR-61 IN BAYOU DUPONT WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, U.S. FEET. MHW = 0.87' AND MLW = 0.50'.
- THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE ACCESS FLOTATION, BORROW AREA AND FILL AREAS PRIOR TO ANY WORK. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION AS PER TS-3.3.7 OF THE SPECIFICATIONS.
- NO EXCAVATION OF MATERIALS IS ALLOWED FOR MRT LEVEE, FLOOD PROTECTION LEVEE, AND NAOMI SIPHON LEVEE CROSSINGS. ALL LEVEE CROSSINGS SHALL BE OVER LAND AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 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 OR AS OTHERWISE NOTED.
- 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.
- NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE, OR STORE OUTSIDE OF THE CONSTRUCTION LIMITS.
- CONSTRUCTION OVER THE MRT LEVEE AND CONSTRUCTION WITHIN 10 FT OF THE LEVEE TOES IS LIMITED TO RIVER STAGES BELOW +11 FT ON THE CARROLLTON GAGE.

**SUMMARY OF ESTIMATED QUANTITIES:**

**BASE BID**

| ITEM No. | DESCRIPTION   | UNIT        | ESTIMATED QUANTITY <sup>1</sup> |
|----------|---|-------------|---------------------------------|
| 1        | MOBILIZATION AND DEMOBILIZATION <sup>2</sup>                            | LUMP SUM    | 1                               |
| 2        | CONSTRUCTION SURVEYS  | LUMP SUM    | 1                               |
| 3        | EARTHEN CONTAINMENT DIKES <sup>3</sup>                                  | LINEAR FEET | 33,720                          |
| 4        | EARTHEN RIDGE   | LINEAR FEET | 11,117                          |
| 5        | ACCESS CHANNEL  | LUMP SUM    | 1                               |
| 6        | HYDRAULIC DREDGING - CORRIDOR AND MARSH CREATION (FILL VOLUME IN PLACE) | CUBIC YARDS | 4,725,153                       |
| 7        | PERMANENT WATERWAY CROSSINGS  | LUMP SUM    | 1                               |
| 8        | BAYOU DUPONT WEIR RECONSTRUCTION  | LUMP SUM    | 1                               |
| 9        | SETTLEMENT PLATES   | EACH        | 21                              |

**ADDITIVE ALTERNATE #1**

| ITEM No. | DESCRIPTION  | UNIT        | ESTIMATED QUANTITY <sup>1</sup> |
|----------|--|-------------|---------------------------------|
| 10(A)    | MOBILIZATION AND DEMOBILIZATION <sup>2</sup>               | LUMP SUM    | 1                               |
| 10(B)    | MOBILIZATION AND DEMOBILIZATION <sup>2</sup>               | LUMP SUM    | 1                               |
| 11       | CONSTRUCTION SURVEYS                                       | LUMP SUM    | 1                               |
| 12       | EARTHEN CONTAINMENT DIKES <sup>3</sup>                     | LINEAR FEET | -8,144                          |
| 13       | EARTHEN CONTAINMENT DIKES <sup>3</sup>                     | LINEAR FEET | 13,037                          |
| 14(A)    | HYDRAULIC DREDGING - MARSH CREATION (FILL VOLUME IN PLACE) | CUBIC YARDS | 324,191                         |
| 14(B)    | HYDRAULIC DREDGING - MARSH CREATION (FILL VOLUME IN PLACE) | CUBIC YARDS | 324,191                         |

**OPTIONS: TWO BORROW SITE LOCATIONS MAY BE USED FOR THE ALTERNATE OPTIONS**  
(A) HYDRAULIC DREDGING AND MARSH FILL FROM ALLIANCE ANCHORAGE BORROW SITE  
(B) HYDRAULIC DREDGING AND MARSH FILL FROM WILLS POINT ANCHORAGE BORROW SITE

**ADDITIVE ALTERNATE #2**

| ITEM No. | DESCRIPTION  | UNIT        | ESTIMATED QUANTITY <sup>1</sup> |
|----------|--|-------------|---------------------------------|
| 15(A)    | MOBILIZATION AND DEMOBILIZATION <sup>2</sup>               | LUMP SUM    | 1                               |
| 15(B)    | MOBILIZATION AND DEMOBILIZATION <sup>2</sup>               | LUMP SUM    | 1                               |
| 16       | CONSTRUCTION SURVEYS                                       | LUMP SUM    | 1                               |
| 17(A)    | HYDRAULIC DREDGING - MARSH CREATION (FILL VOLUME IN PLACE) | CUBIC YARDS | 359,280                         |
| 17(B)    | HYDRAULIC DREDGING - MARSH CREATION (FILL VOLUME IN PLACE) | CUBIC YARDS | 359,280                         |

**OPTIONS: TWO BORROW SITE LOCATIONS MAY BE USED FOR THE ADDITIVE ALTERNATE**  
(A) HYDRAULIC DREDGING AND MARSH FILL FROM ALLIANCE ANCHORAGE BORROW SITE  
(B) HYDRAULIC DREDGING AND MARSH FILL FROM WILLS POINT ANCHORAGE BORROW SITE

- WHERE THE QUANTITY OF WORK WITH RESPECT TO ANY ITEM IS COVERED BY A UNIT PRICE, SUCH QUANTITIES ARE ESTIMATED QUANTITIES TO BE USED WHEN COMPARING BIDS AND THE RIGHT IS RESERVED BY THE OWNER TO INCREASE/DECREASE SUCH QUANTITIES AS MAY BE NECESSARY TO COMPLETE THE WORK AND/OR REMAIN WITHIN THE FUNDING LIMITS. IN THE EVENT OF MATERIAL UNDERRUNS/OVERRUNS, THE B/D UNIT COSTS WILL BE USED TO DETERMINE PAYMENT TO THE CONTRACTOR.
- MOBILIZATION AND DEMOBILIZATION SHALL INCLUDE ALL APPROPRIATE COSTS ASSOCIATED WITH CONSTRUCTING ALL FEATURES LISTED IN THE SPECIFICATIONS AND/OR SHOWN IN THE PLANS. IN THE EVENT THAT WORK IS NOT PERFORMED FROM A BORROW AREA, THE MOBILIZATION AND DEMOBILIZATION ITEM FOR THAT SITE WILL BE DELETED FROM THE PAYMENT TO THE CONTRACTOR.
- THE LINEAR FEET OF CONTAINMENT DIKES AND THE EARTHEN RIDGE WAS ESTIMATED FOR CONSTRUCTION USING AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND AUTOCAD. THE OWNER RESERVES THE RIGHT TO REQUEST ADDITIONAL DIKES BE BUILT FOR CONSTRUCTION AT THE CONTRACTOR'S BID PRICE PER LINEAR FOOT.

**FINAL BID SET**

| REV. | DATE | DESCRIPTION | BY |
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|      |      |             |    |
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**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

GENERAL NOTES, ABBREVIATIONS AND ESTIMATED QUANTITIES  
SHEET 1 OF 2

DATE: MARCH 8, 2013

SHEET 2 OF 81

**LA DOTD SPECIFICATIONS:**

STRUCTURAL EXCAVATION AND BACKFILL: SECTION 802  
 DRIVEN PILES: SECTION 804  
 STRUCTURAL CONCRETE: SECTION 805  
 PAINTING AND PROTECTIVE COATINGS: SECTION 811  
 TREATED TIMBER: SECTION 812  
 THE CONTRACTOR SHALL USE THE MOST RECENT VERSION OF LA DOTD SPECIFICATIONS.

**CONCRETE AND REINFORCING STEEL:**

- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE.
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 AND ACI SP-66.
- MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
  - A. CONCRETE:
 

|                             |                        |
|-----------------------------|------------------------|
|                             | <b>28 DAY STRENGTH</b> |
| CAST-IN-PLACE.....          | 5000 PSI               |
| CEMENTIOUS GROUT (UON)..... | 7000 PSI               |
| PRE-STRESSED CONCRETE.....  | 6000 PSI               |
  - B. REINFORCING STEEL  
 REINFORCING STEEL AND DOWELS FOR CONCRETE.....ASTM A615, GRADE 60
- CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45° CHAMFER, UON.
- PROVIDE CONCRETE COVER OVER REINFORCEMENT IN ACCORDANCE WITH ACI 318, UON.
- PROVIDE A BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL ON ALL WALKING SURFACES.
- ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318, UON. SPLICING SHALL OCCUR AT 1/3 POINTS OF THE SPAN PER ACI 318, CHAPTER 21. SPLICING OVER JOINTS IS NOT PERMITTED.



**STRUCTURAL AND MISCELLANEOUS STEEL:**

- ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (ASD).
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UON:
  - A. MISC PLATES, BARS, AND SHAPES.....ASTM A572, GRADE 50, GALV
  - B. HIGH STRENGTH BOLTS AND NUTS.....ASTM A325, GALV
  - C. THREADED TIE RODS.....ASTM A615, GRADE 75, GALV
  - D. LAG SCREWS.....ASTM A307, GALV
  - E. ANCHOR BOLTS.....ASTM F1554, GRADE 55, GALV
- ALL STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR A153, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED. ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED.
- FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

**DESIGN CRITERIA:**

- GRAVITY LOADS:  
LIVE LOAD.....HS20 TRUCK
- SEISMIC LOAD AS REQUIRED BY THE ASCE-7 STANDARD BUILDING CODE (AMERICAN SOCIETY OF CIVIL ENGINEERS)  
PGA.....0.088g
- CODES AND REFERENCES (LATEST EDITION):
  - A. ACI - (AMERICAN CONCRETE INSTITUTE)
  - B. AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION "MANUAL OF STEEL CONSTRUCTION LRFD/ASD DESIGN"
  - C. ASCE - (AMERICAN SOCIETY OF CIVIL ENGINEERS)
  - D. AWS - D1.1 (AMERICAN WELDING SOCIETY)
  - E. IBC - (INTERNATIONAL BUILDING CODE)

**ADDITIONAL DREDGING NOTES:**

- THE CONTRACTOR SHALL ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON SHEETS 7 AND 8.
- DREDGE ANCHOR LIMITS SHALL BE MARKED WITH BUOYS AS SHOWN ON SHEETS 7 AND 8 IN ACCORDANCE WITH USCG REGULATIONS.
- DREDGING BEYOND THE BORROW AREA LIMITS SHOWN WILL NOT BE ALLOWED.
- DREDGING WILL BE ALLOWED TO A MAXIMUM DEPTH OF -90 FT NAVD88.
- THE CONTRACTOR SHALL SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNER, THE USACE OPERATIONS DIVISION, AND MARITIME NAVIGATION SAFETY ASSOCIATION (MNSA) DELINEATING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING PIPELINE AS PER THE SPECIFICATIONS.

**FOUNDATION:**

- PILES SHALL BE DRIVEN TO THE MINIMUM PILE TIP ELEVATIONS INDICATED ON THE PLANS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED.
- SPODDING AND/OR JETTING OF PILES WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS.
- TIMBER PILE AXIAL COMPRESSION CAPACITY:  
20 TONS (ALLOWABLE)  
40 TONS (ULTIMATE)
- CONTRACTOR SHALL VERIFY COORDINATES AND GEOMETRY PRIOR TO ORDERING TIMBER PILES.

**TIMBER CONSTRUCTION:**

- ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
- TIMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY 5C FOR TIMBER IN SALTWATER IMMERSION. PRESERVATIVE RETENTION SHALL BE 2.50 PCF.
- TIMBER MATERIALS:  
LAGGING.....MARINE GRADE NO.1(S4S)  
PILES.....ASTM D25
- WHEN CONNECTING HARDWARE IS SHOWN ON THE DRAWINGS THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT UNDERCUT WOOD. CONNECTIONS SHALL PULL AND HOLD MEMBERS BEING JOINED INTO CLOSE CONTACT.
- USE GALVANIZED DOCK WASHER OR OGEE WASHER WHERE INDICATED.
- CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN FINALLY TIGHTENED.
- BORE HOLES FOR THRU BOLTS WITH A BIT 1/16 INCH LARGER IN DIAMETER THAN THE SHANK OF THE BOLT.
- FIELD TREAT ALL CUTS AND HOLES WITH APPROVED MARINE GRADE WOOD PRESERVATIVE. ALLOW PRESERVATIVE TO COMPLETELY DRY PER MANUFACTURER'S INSTRUCTION PRIOR TO IMMERSING IN WATER.

**FINAL BID SET**

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

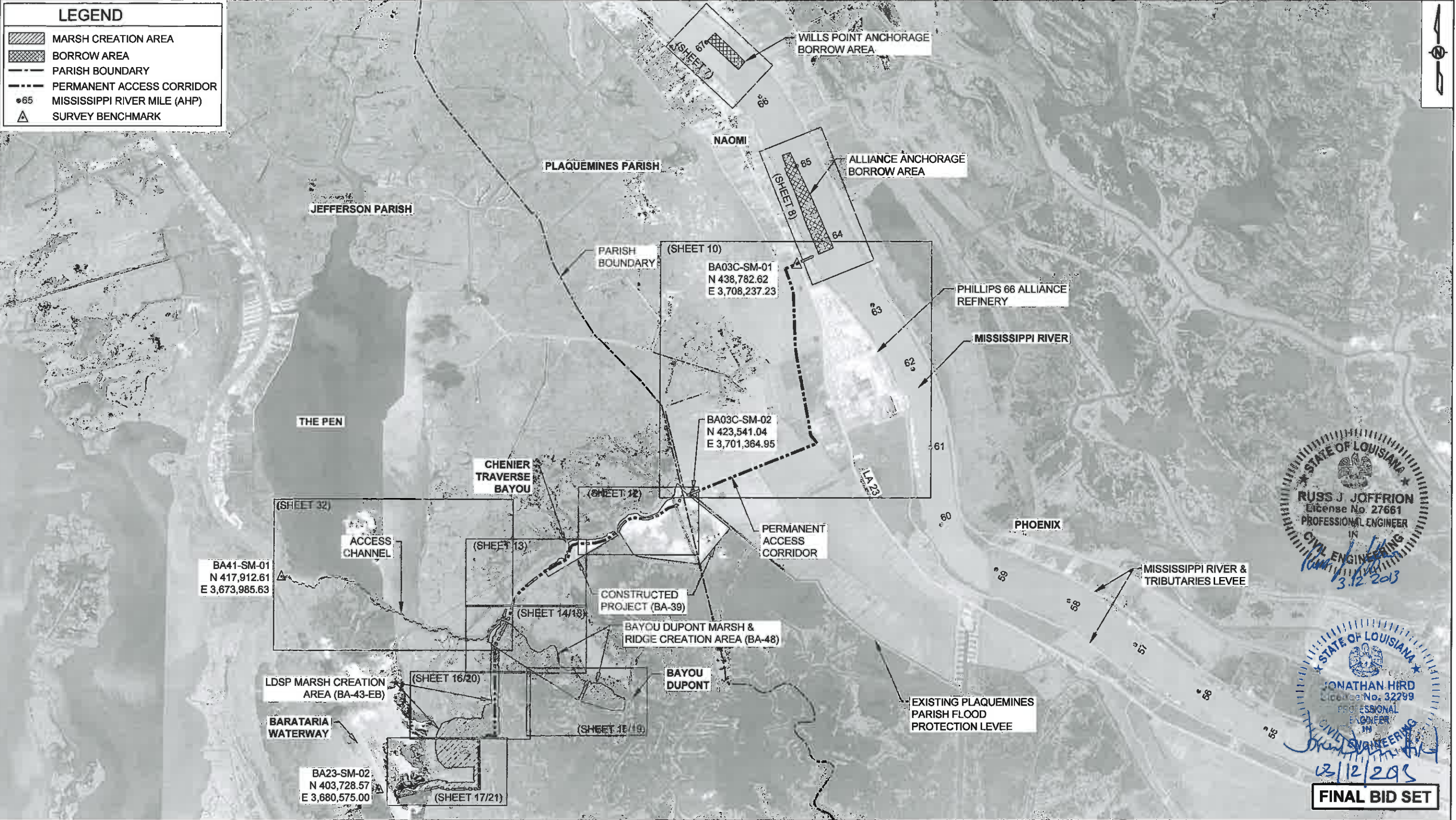
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

GENERAL NOTES SHEET 2 OF 2  
 DATE: MARCH 8, 2013  
 SHEET 3 OF 81

DRAWN BY: YC      DESIGNED BY: SA

**LEGEND**

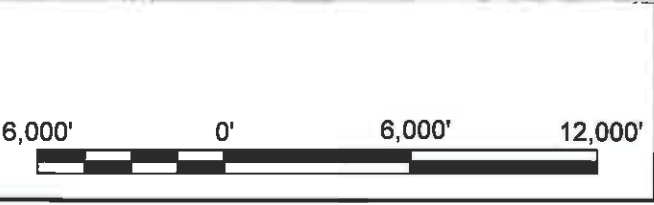
-  MARSH CREATION AREA
-  BORROW AREA
-  PARISH BOUNDARY
-  PERMANENT ACCESS CORRIDOR
-  MISSISSIPPI RIVER MILE (AHP)
-  SURVEY BENCHMARK



STATE OF LOUISIANA  
 ★ ★ ★  
 RUSS J JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3/12/2013

STATE OF LOUISIANA  
 ★ ★ ★  
 JONATHAN HIRD  
 License No. 32799  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 03/12/2013

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
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|      |      |             |    |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

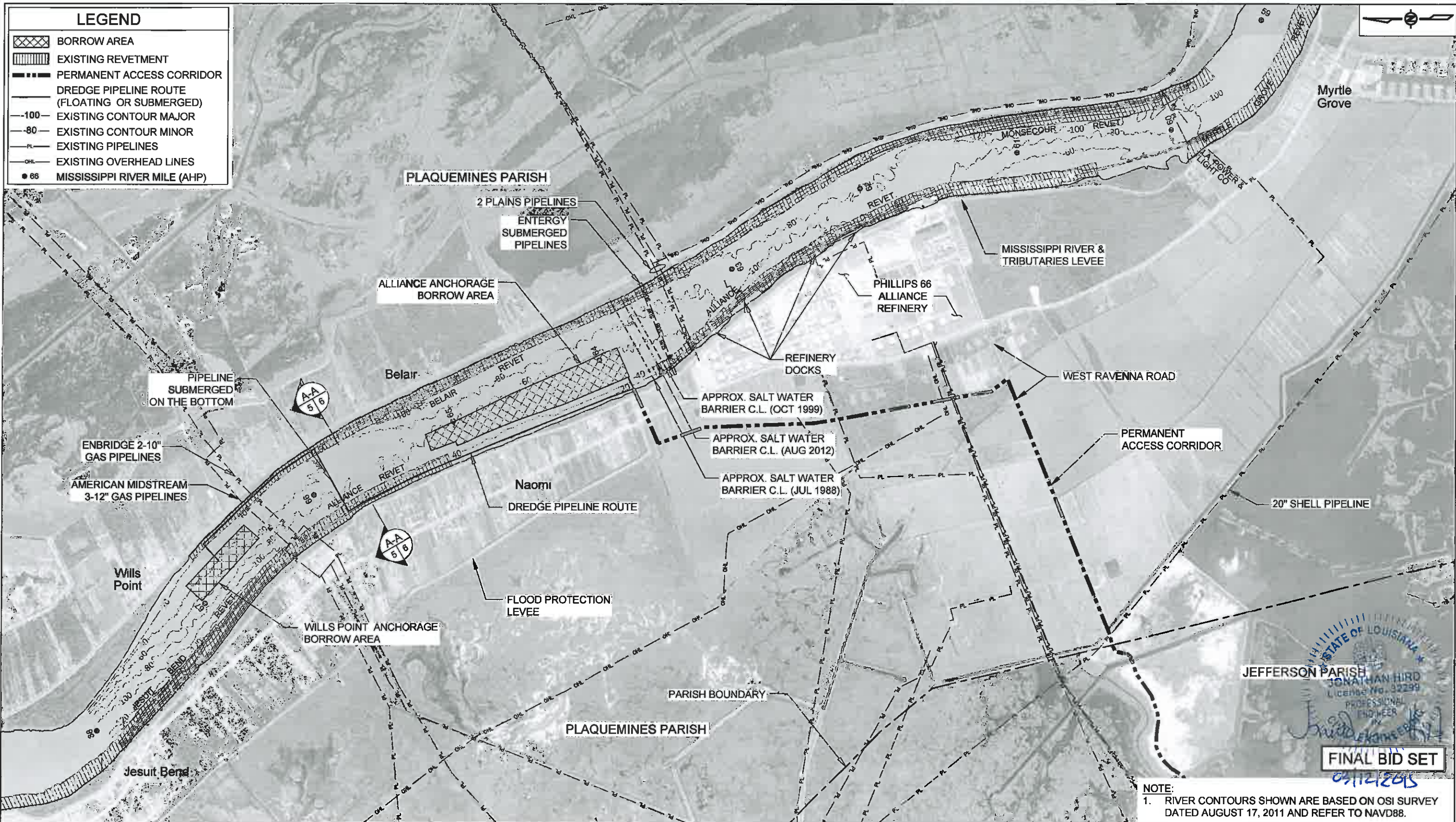
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

PROJECT LAYOUT

DATE: MARCH 8, 2013

SHEET 4 OF 81

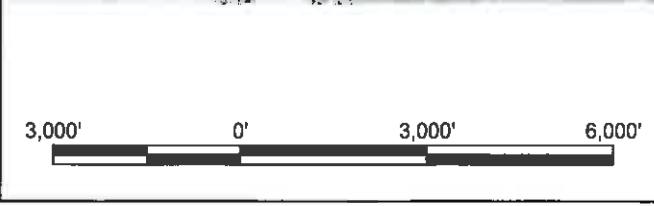


| LEGEND |   |
|--------|---|
|        | BORROW AREA                                   |
|        | EXISTING REVEGETATION                         |
|        | PERMANENT ACCESS CORRIDOR                     |
|        | DREDGE PIPELINE ROUTE (FLOATING OR SUBMERGED) |
|        | EXISTING CONTOUR MAJOR                        |
|        | EXISTING CONTOUR MINOR                        |
|        | EXISTING PIPELINES                            |
|        | EXISTING OVERHEAD LINES                       |
|        | MISSISSIPPI RIVER MILE (AHP)                  |

STATE OF LOUISIANA  
 JONATHAN HIRD  
 LICENSE NO. 32299  
 PROFESSIONAL ENGINEER

**FINAL BID SET**  
 03/12/2013

**NOTE:**  
 1. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

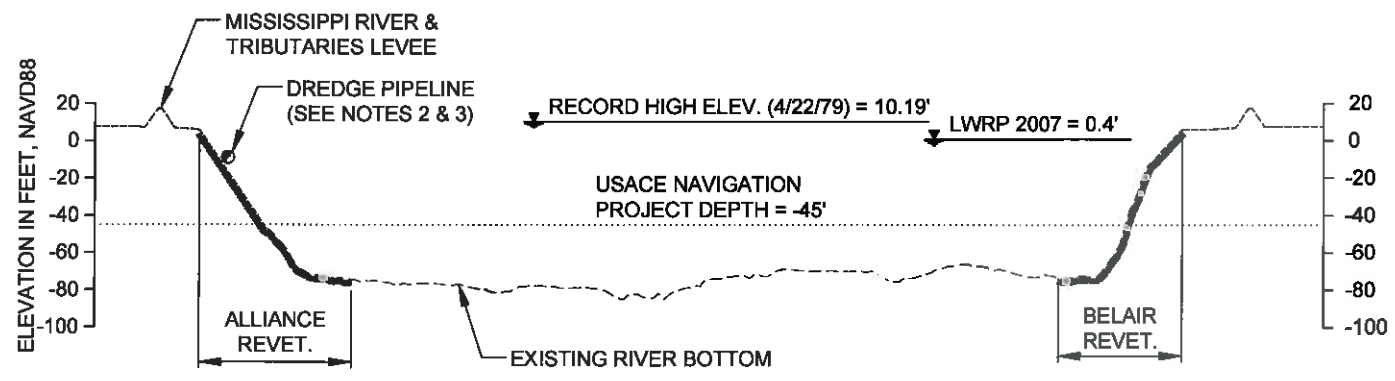
DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-43

APPROVED BY: MAURY CHATELLIER, P.E.

**BORROW AREAS**

DATE: MARCH 8, 2013  
 SHEET 5 OF 81



**A-A**  
5  
**TYPICAL DREDGE PIPELINE ROUTE SECTION**  
RIVER MILE 65.6

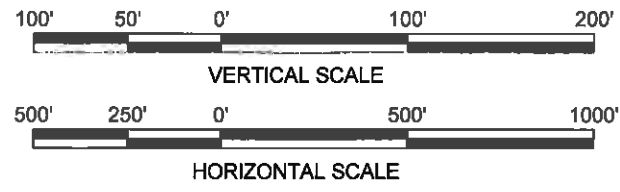
**NOTES:**

1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
2. DREDGE PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET 30 FT MINIMUM FROM THE LWRP.
3. DREDGE PIPELINE MAY BE SUBMERGED OR FLOATING.

JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

| LEGEND |                    |
|--------|--------------------|
| ---    | AUGUST 2011 SURVEY |
| —      | EXISTING REVETMENT |
| ○      | DREDGE PIPELINE    |

**FINAL DRAFT BID SET**



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70826  
 225-336-2075

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

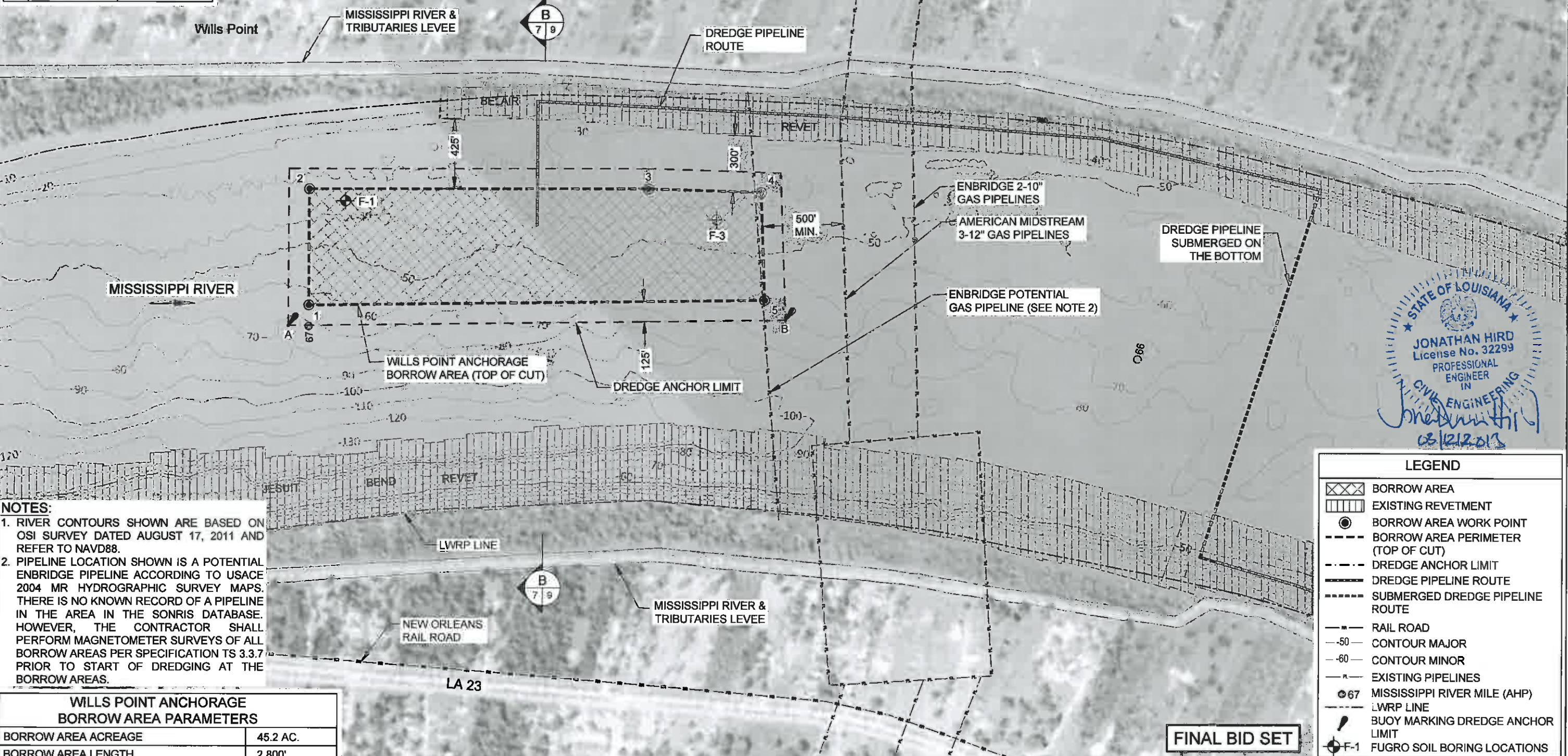
DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

TYPICAL MISSISSIPPI RIVER DREDGE PIPELINE ROUTE SECTIONS  
 DATE: MARCH 8, 2013  
 SHEET 6 OF 81

| BORROW AREA (TOP OF CUT) |              |            |
|--------------------------|--------------|------------|
| PT.                      | EASTING      | NORTHING   |
| 1                        | 3,702,191.97 | 453,645.40 |
| 2                        | 3,702,680.08 | 454,174.11 |
| 3                        | 3,704,219.24 | 452,757.35 |
| 4                        | 3,704,719.35 | 452,266.22 |
| 5                        | 3,704,284.29 | 451,759.64 |

| BUOYS MARKING DREDGE ANCHOR LIMIT |              |            |
|-----------------------------------|--------------|------------|
| PT.                               | EASTING      | NORTHING   |
| A                                 | 3,702,014.32 | 453,637.24 |
| B                                 | 3,704,295.70 | 451,581.07 |



**NOTES:**  
 1. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.  
 2. PIPELINE LOCATION SHOWN IS A POTENTIAL ENBRIDGE PIPELINE ACCORDING TO USACE 2004 MR HYDROGRAPHIC SURVEY MAPS. THERE IS NO KNOWN RECORD OF A PIPELINE IN THE AREA IN THE SONRIS DATABASE. HOWEVER, THE CONTRACTOR SHALL PERFORM MAGNETOMETER SURVEYS OF ALL BORROW AREAS PER SPECIFICATION TS 3.3.7 PRIOR TO START OF DREDGING AT THE BORROW AREAS.

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

| LEGEND |                                    |
|--------|------------------------------------|
|        | BORROW AREA                        |
|        | EXISTING REVETMENT                 |
|        | BORROW AREA WORK POINT             |
|        | BORROW AREA PERIMETER (TOP OF CUT) |
|        | DREDGE ANCHOR LIMIT                |
|        | DREDGE PIPELINE ROUTE              |
|        | SUBMERGED DREDGE PIPELINE ROUTE    |
|        | RAIL ROAD                          |
|        | CONTOUR MAJOR                      |
|        | CONTOUR MINOR                      |
|        | EXISTING PIPELINES                 |
|        | MISSISSIPPI RIVER MILE (AHP)       |
|        | LWRP LINE                          |
|        | BUOY MARKING DREDGE ANCHOR LIMIT   |
|        | FUGRO SOIL BORING LOCATIONS        |

| WILLS POINT ANCHORAGE BORROW AREA PARAMETERS |              |
|--|--------------|
| BORROW AREA ACREAGE                          | 45.2 AC.     |
| BORROW AREA LENGTH                           | 2,800'       |
| BORROW AREA WIDTH                            | 680' TO 715' |
| BORROW AREA THICKNESS                        | 10' TO 50'   |
| BORROW AREA VOLUME (-90' NAVD88 MAX.)        | 2.38 MCY     |



| REV. | DATE | DESCRIPTION | BY |
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MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

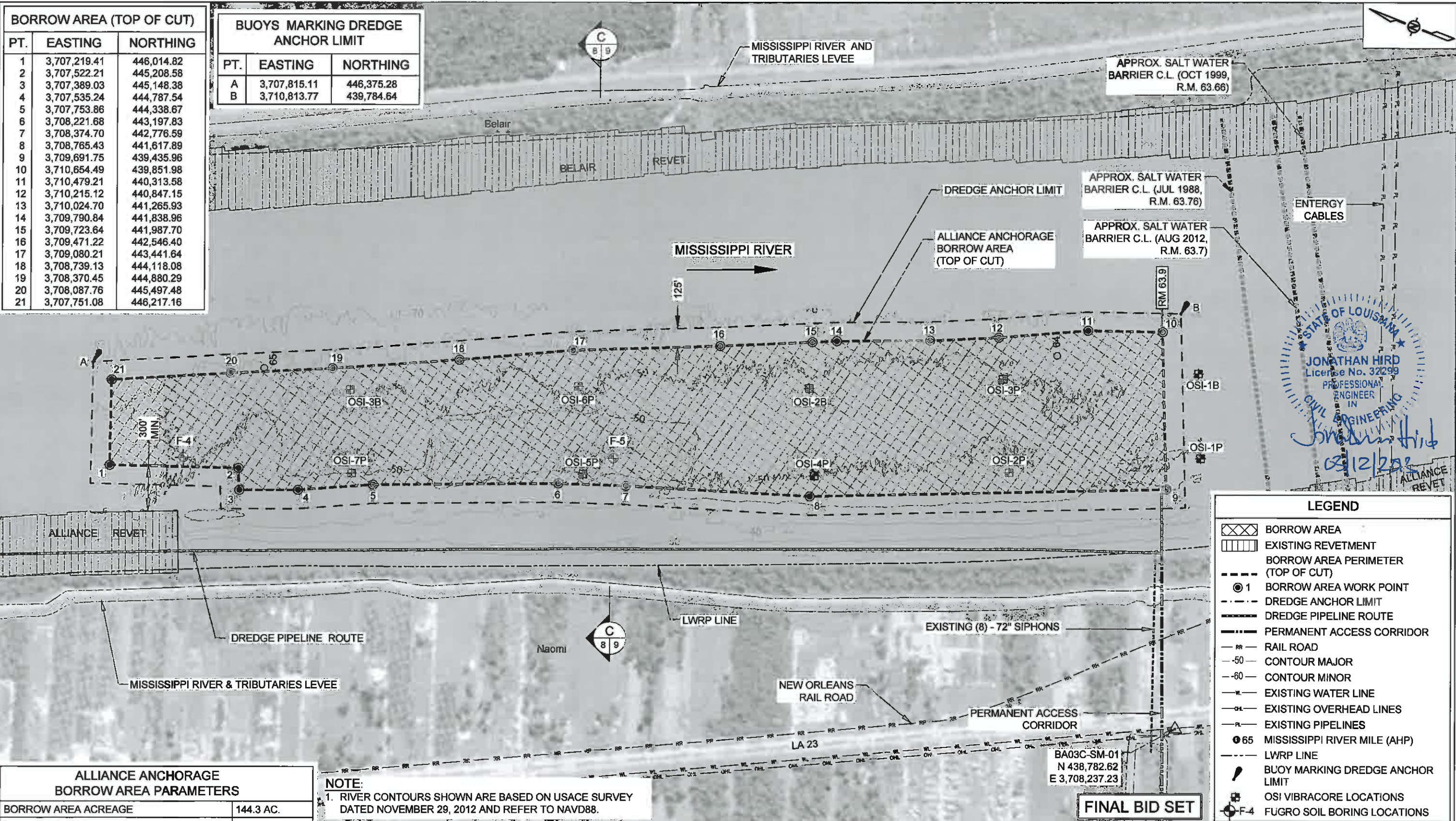
**FINAL BID SET**

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

WILLS POINT ANCHORAGE BORROW AREA LAYOUT  
 DATE: MARCH 8, 2013  
 SHEET 7 OF 81

| BORROW AREA (TOP OF CUT) |              |            |
|--------------------------|--------------|------------|
| PT.                      | EASTING      | NORTHING   |
| 1                        | 3,707,219.41 | 446,014.82 |
| 2                        | 3,707,522.21 | 445,208.58 |
| 3                        | 3,707,389.03 | 445,148.38 |
| 4                        | 3,707,535.24 | 444,787.54 |
| 5                        | 3,707,753.86 | 444,338.67 |
| 6                        | 3,708,221.68 | 443,197.83 |
| 7                        | 3,708,374.70 | 442,776.59 |
| 8                        | 3,708,765.43 | 441,617.89 |
| 9                        | 3,709,691.75 | 439,435.96 |
| 10                       | 3,710,654.49 | 439,851.98 |
| 11                       | 3,710,479.21 | 440,313.58 |
| 12                       | 3,710,215.12 | 440,847.15 |
| 13                       | 3,710,024.70 | 441,265.93 |
| 14                       | 3,709,790.84 | 441,838.96 |
| 15                       | 3,709,723.64 | 441,987.70 |
| 16                       | 3,709,471.22 | 442,546.40 |
| 17                       | 3,709,080.21 | 443,441.64 |
| 18                       | 3,708,739.13 | 444,118.08 |
| 19                       | 3,708,370.45 | 444,880.29 |
| 20                       | 3,708,087.76 | 445,497.48 |
| 21                       | 3,707,751.08 | 446,217.16 |

| BUOYS MARKING DREDGE ANCHOR LIMIT |              |            |
|-----------------------------------|--------------|------------|
| PT.                               | EASTING      | NORTHING   |
| A                                 | 3,707,815.11 | 446,375.28 |
| B                                 | 3,710,813.77 | 439,784.64 |



STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 03/12/2013

| LEGEND |                                    |
|--------|------------------------------------|
|        | BORROW AREA                        |
|        | EXISTING REVETMENT                 |
|        | BORROW AREA PERIMETER (TOP OF CUT) |
|        | BORROW AREA WORK POINT             |
|        | DREDGE ANCHOR LIMIT                |
|        | DREDGE PIPELINE ROUTE              |
|        | PERMANENT ACCESS CORRIDOR          |
|        | RAIL ROAD                          |
|        | CONTOUR MAJOR                      |
|        | CONTOUR MINOR                      |
|        | EXISTING WATER LINE                |
|        | EXISTING OVERHEAD LINES            |
|        | EXISTING PIPELINES                 |
|        | MISSISSIPPI RIVER MILE (AHP)       |
|        | LWRP LINE                          |
|        | BUOY MARKING DREDGE ANCHOR LIMIT   |
|        | OSI VIBRACORE LOCATIONS            |
|        | FUGRO SOIL BORING LOCATIONS        |

| ALLIANCE ANCHORAGE 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        |

NOTE:  
 1. RIVER CONTOURS SHOWN ARE BASED ON USACE SURVEY DATED NOVEMBER 29, 2012 AND REFER TO NAVD88.



| REV. | DATE | DESCRIPTION | BY |
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MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

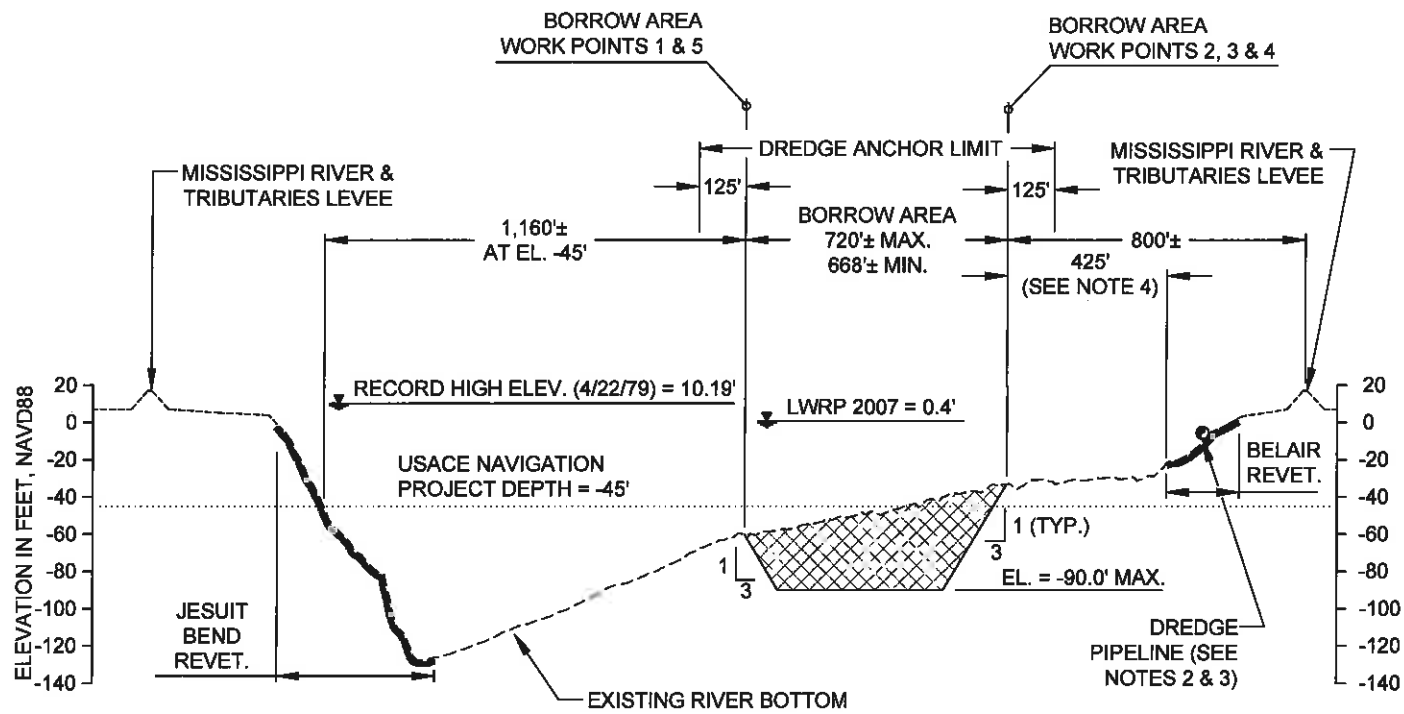
ALLIANCE ANCHORAGE BORROW AREA LAYOUT  
 DATE: MARCH 8, 2013  
 SHEET 8 OF 81

DRAWN BY: YC

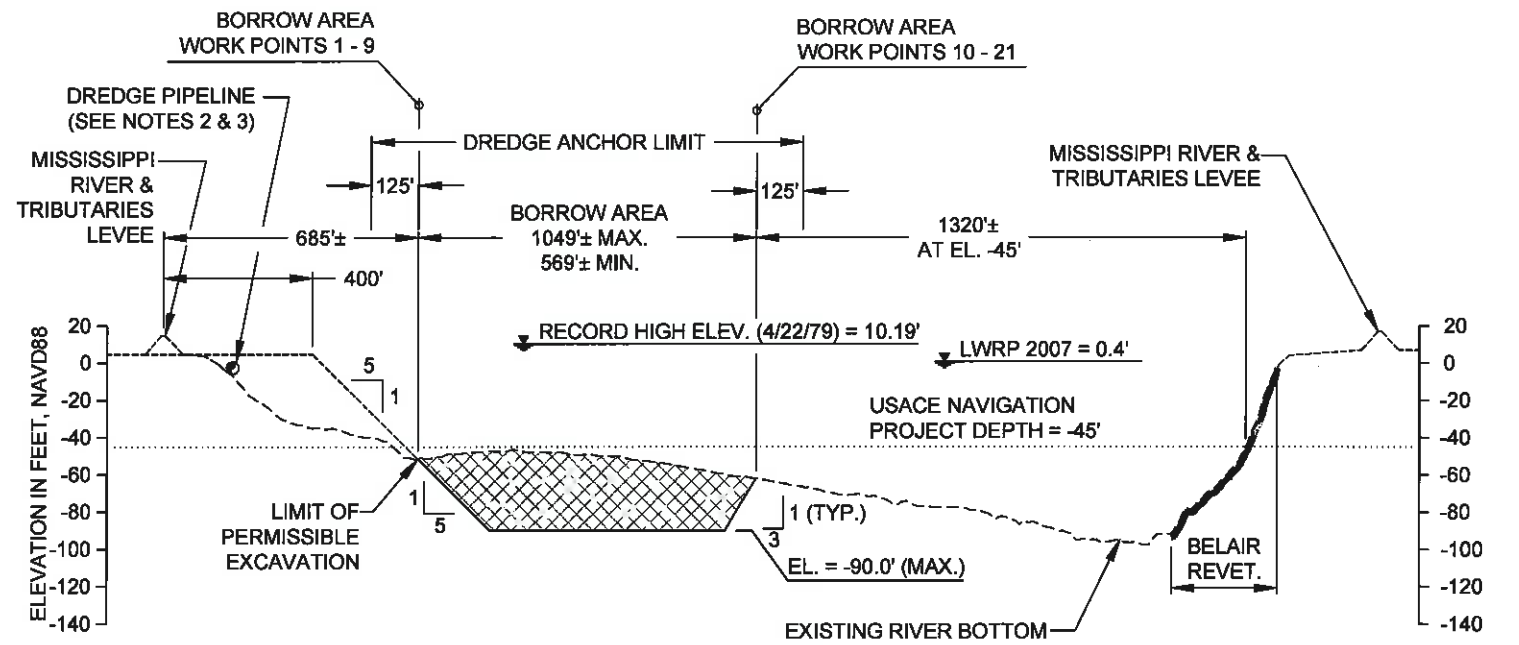
DESIGNED BY: SA

BA03C-SM-01  
 N 438,782.62  
 E 3,708,237.23  
**FINAL BID SET**





**B** WILLS POINT ANCHORAGE BORROW AREA  
7 RIVER MILE 66.7



**C** ALLIANCE ANCHORAGE BORROW AREA  
8 RIVER MILE 64.6

**NOTES:**

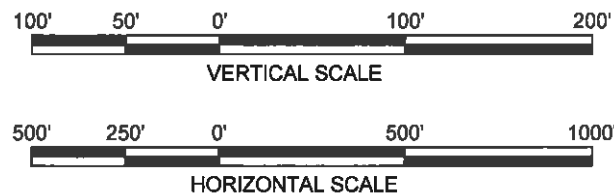
1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
2. DREDGE PIPELINE TO BE ROUTED ALONG RIVER BANK AT AN OFFSET ± 30 FT FROM LWRP.
3. DREDGE PIPELINE MAY BE SUBMERGED OR FLOATING.
4. THE MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF BELAIR REVETMENT VARIES FROM 300 TO 450 FEET.
5. THE MINIMUM DISTANCE BETWEEN TOP OF CUT AND TOE OF ALLIANCE REVETMENT IS 300 FEET WHERE OCCURS, SEE SHT. 8 FOR EXTENTS.



**LEGEND** 03/12/2013

|  |                        |
|--|------------------------|
|  | BORROW AREA            |
|  | AUGUST 2011 SURVEY     |
|  | APPROX. EXISTING GRADE |
|  | EXISTING REVETMENT     |
|  | DESIGN GRADE           |
|  | DREDGE PIPELINE        |

**FINAL BID SET**



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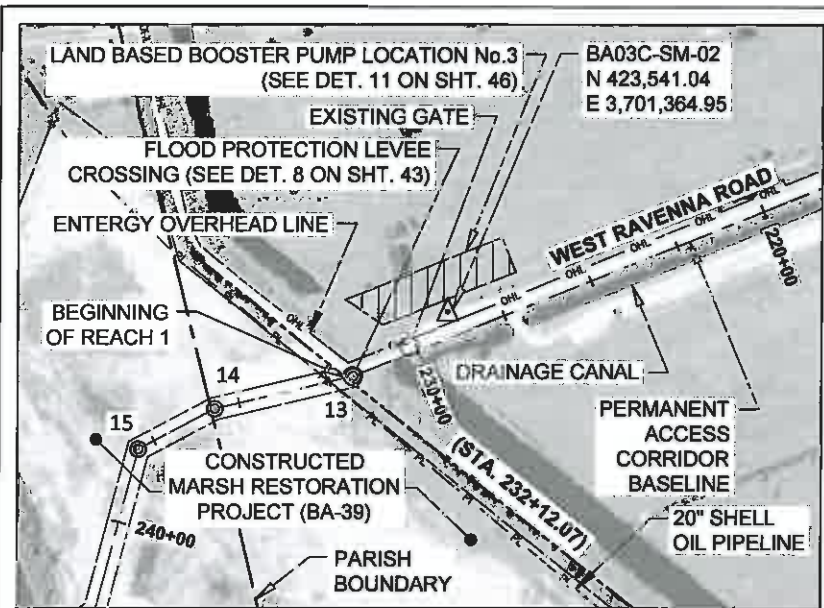
**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70826  
225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

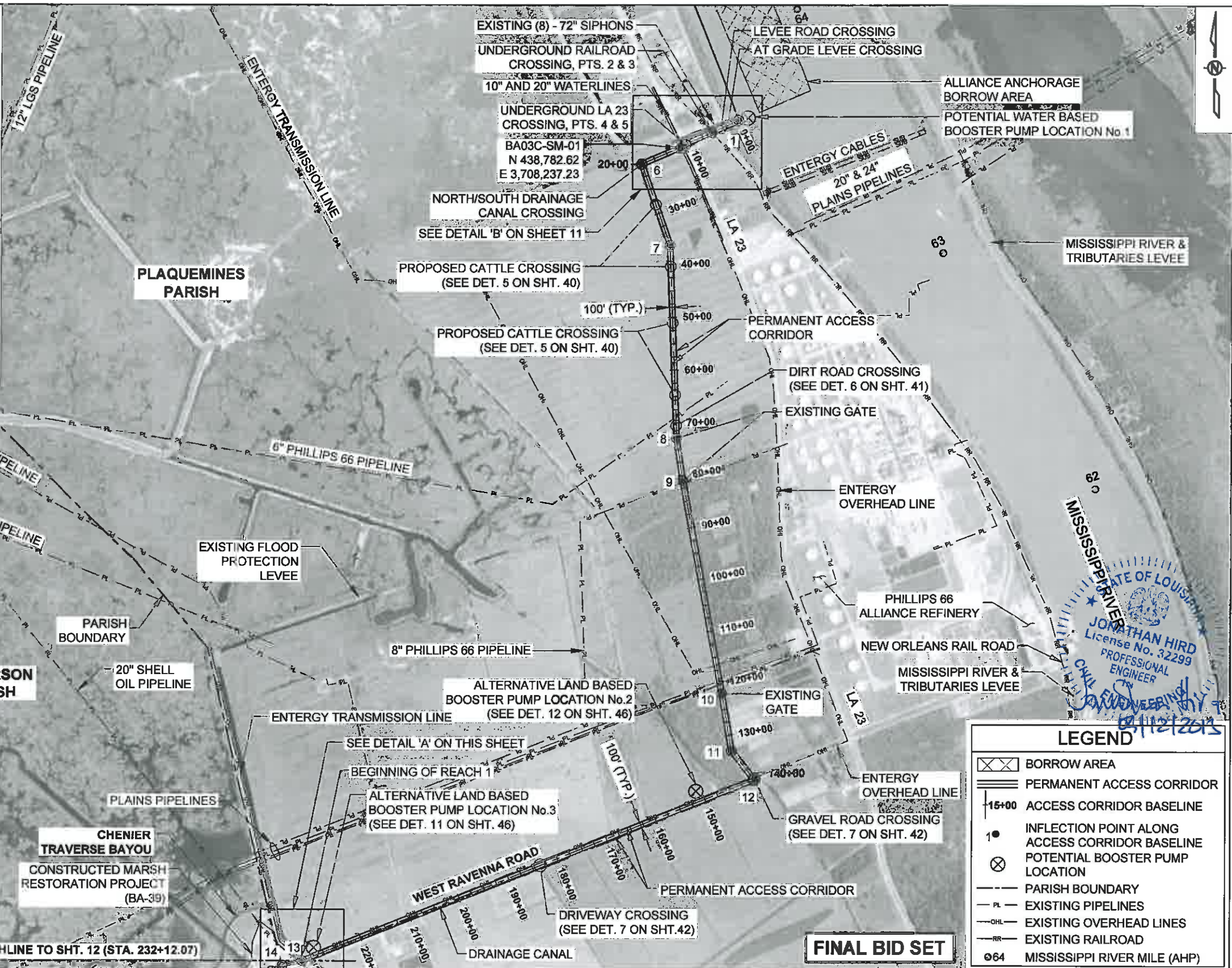
BORROW AREAS TYPICAL SECTIONS  
DATE: MARCH 8, 2013  
SHEET 9 OF 81

DRAWN BY: YC      DESIGNED BY: SA



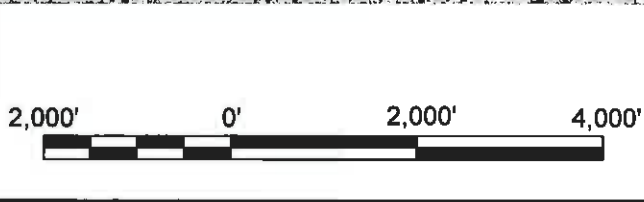
**DETAIL A**  
SCALE: 1" = 500'

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY PIPELINE LOCATIONS, INCLUDING NAOMI SIPHON PIPES AND EXISTING CASING PIPES, PRIOR TO BEGINNING CONSTRUCTION.
  - ALL EXISTING PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
  - 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.
  - 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.
  - THE CONTRACTOR'S ACCESS CORRIDOR AND CONSTRUCTION LIMITS SHALL BE SUBMITTED IN THE WORK PLAN AS PER THE SPECIFICATIONS.
  - THE DREDGE PIPELINE SHALL BE PLACED ON THE SOUTH SIDE OF WEST RAVENNA ROAD.
  - SEE SECTIONS TS-2.5 AND TS-2.6 OF THE SPECIFICATIONS FOR INFORMATION REGARDING DREDGE PIPELINE CROSSINGS.
  - THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - SEE SHEETS 36 TO 43 FOR CROSSING DETAILS.
  - FOR PERMANENT ACCESS CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 23.



**LEGEND**

- BORROW AREA
- PERMANENT ACCESS CORRIDOR
- ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
- POTENTIAL BOOSTER PUMP LOCATION
- PARISH BOUNDARY
- EXISTING PIPELINES
- EXISTING OVERHEAD LINES
- EXISTING RAILROAD
- MISSISSIPPI RIVER MILE (AHP)



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

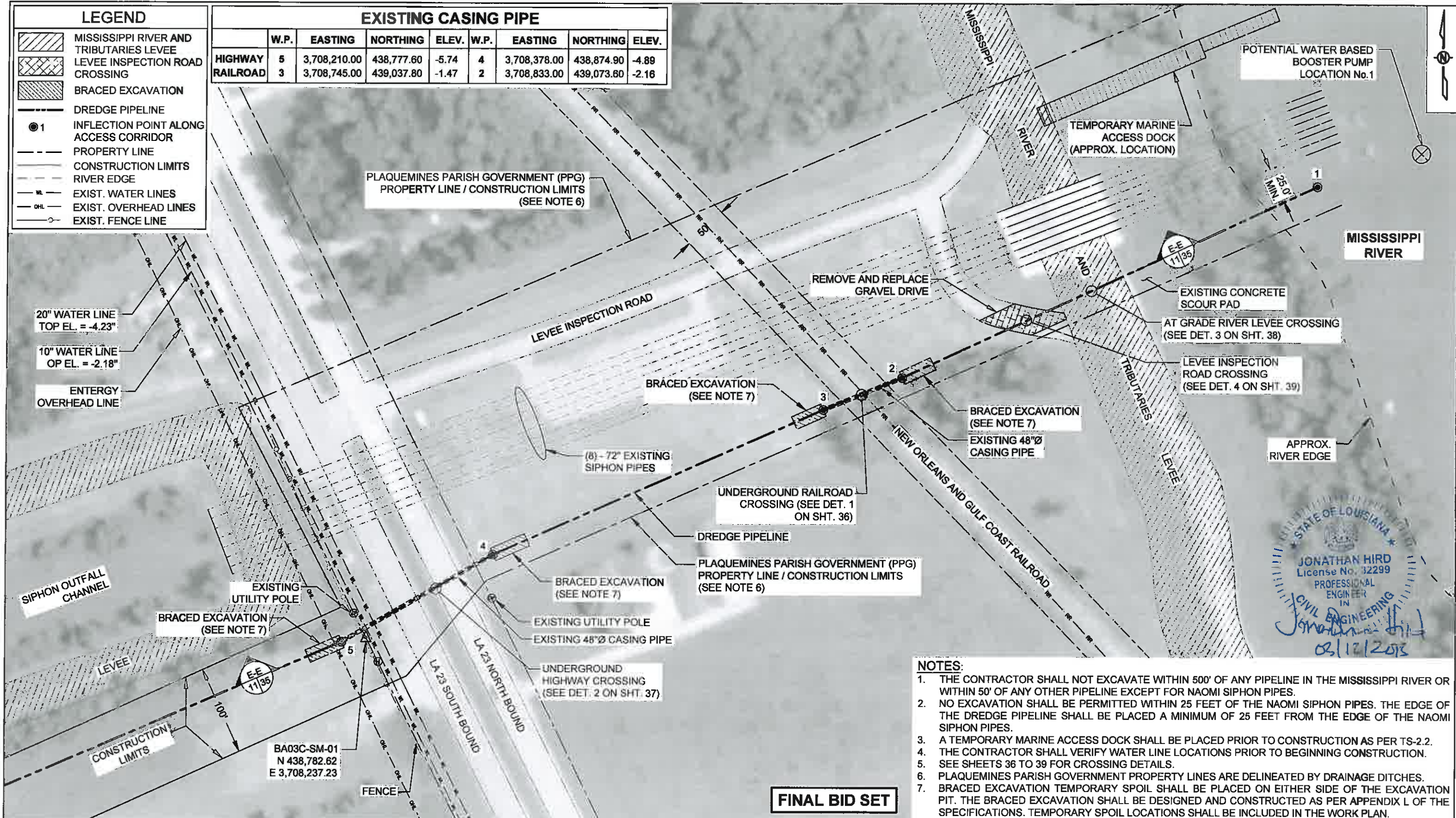
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (1 OF 7)  
DATE: MARCH 8, 2013  
SHEET 10 OF 81

STATE OF LOUISIANA  
**JONATHAN HIRD**  
License No. 32299  
PROFESSIONAL ENGINEER  
CHIEF ENGINEER  
12/12/2013

| LEGEND |   |
|--------|---|
|        | MISSISSIPPI RIVER AND TRIBUTARIES LEVEE |
|        | LEVEE INSPECTION ROAD CROSSING          |
|        | BRACED EXCAVATION                       |
|        | DREDGE PIPELINE                         |
|        | INFLECTION POINT ALONG ACCESS CORRIDOR  |
|        | PROPERTY LINE                           |
|        | CONSTRUCTION LIMITS                     |
|        | RIVER EDGE                              |
|        | EXIST. WATER LINES                      |
|        | EXIST. OVERHEAD LINES                   |
|        | EXIST. FENCE LINE                       |

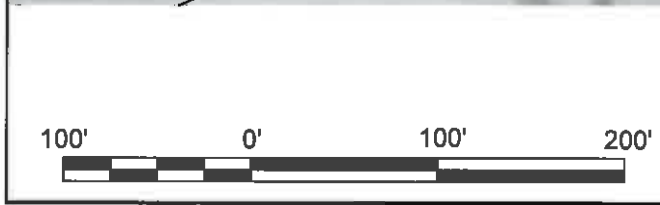
| EXISTING CASING PIPE |      |              |            |       |      |              |            |       |
|----------------------|------|--------------|------------|-------|------|--------------|------------|-------|
|                      | W.P. | EASTING      | NORTHING   | ELEV. | W.P. | EASTING      | NORTHING   | ELEV. |
| HIGHWAY              | 5    | 3,708,210.00 | 438,777.60 | -5.74 | 4    | 3,708,378.00 | 438,874.90 | -4.89 |
| RAILROAD             | 3    | 3,708,745.00 | 439,037.80 | -1.47 | 2    | 3,708,833.00 | 439,073.60 | -2.16 |



STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 02/12/2013

- NOTES:**
1. 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.
  2. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FEET OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE PIPELINE SHALL BE PLACED A MINIMUM OF 25 FEET FROM THE EDGE OF THE NAOMI SIPHON PIPES.
  3. A TEMPORARY MARINE ACCESS DOCK SHALL BE PLACED PRIOR TO CONSTRUCTION AS PER TS-2.2.
  4. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  5. SEE SHEETS 36 TO 39 FOR CROSSING DETAILS.
  6. PLAQUEMINES PARISH GOVERNMENT PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES.
  7. BRACED EXCAVATION TEMPORARY SPOIL SHALL BE PLACED ON EITHER SIDE OF THE EXCAVATION PIT. THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX L OF THE SPECIFICATIONS. TEMPORARY SPOIL LOCATIONS SHALL BE INCLUDED IN THE WORK PLAN.

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48










APPROVED BY: MAURY CHATELLIER, P.E.

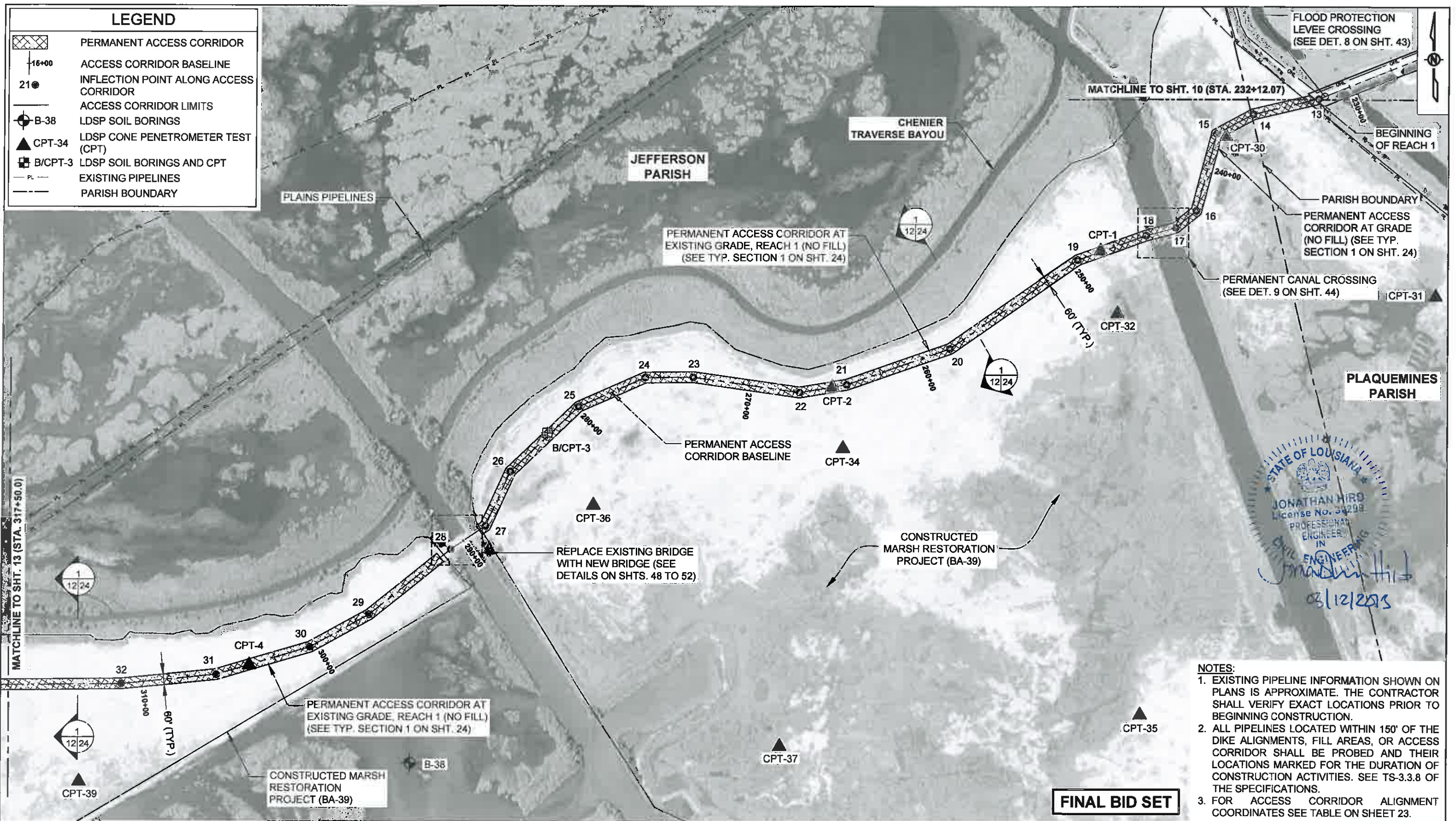
BASE BID: ACCESS CORRIDOR AND MARSH CREATION LAYOUT - DETAIL B

DATE: MARCH 8, 2013

SHEET 11 OF 81

**LEGEND**

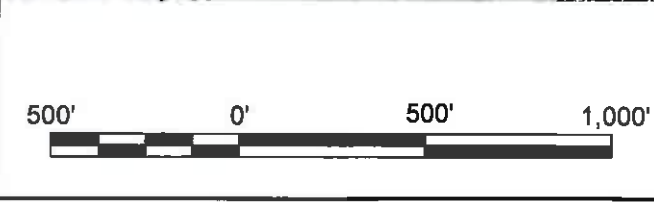
-  PERMANENT ACCESS CORRIDOR
-  ACCESS CORRIDOR BASELINE
-  INFLECTION POINT ALONG ACCESS CORRIDOR
-  ACCESS CORRIDOR LIMITS
-  B-38 LDSP SOIL BORINGS
-  CPT-34 LDSP CONE PENETROMETER TEST (CPT)
-  B/CPT-3 LDSP SOIL BORINGS AND CPT
-  EXISTING PIPELINES
-  PARISH BOUNDARY



STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 34299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

- NOTES:**
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR ACCESS CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 23.

**FINAL BID SET**



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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48














APPROVED BY: MAURY CHATELLIER, P.E.

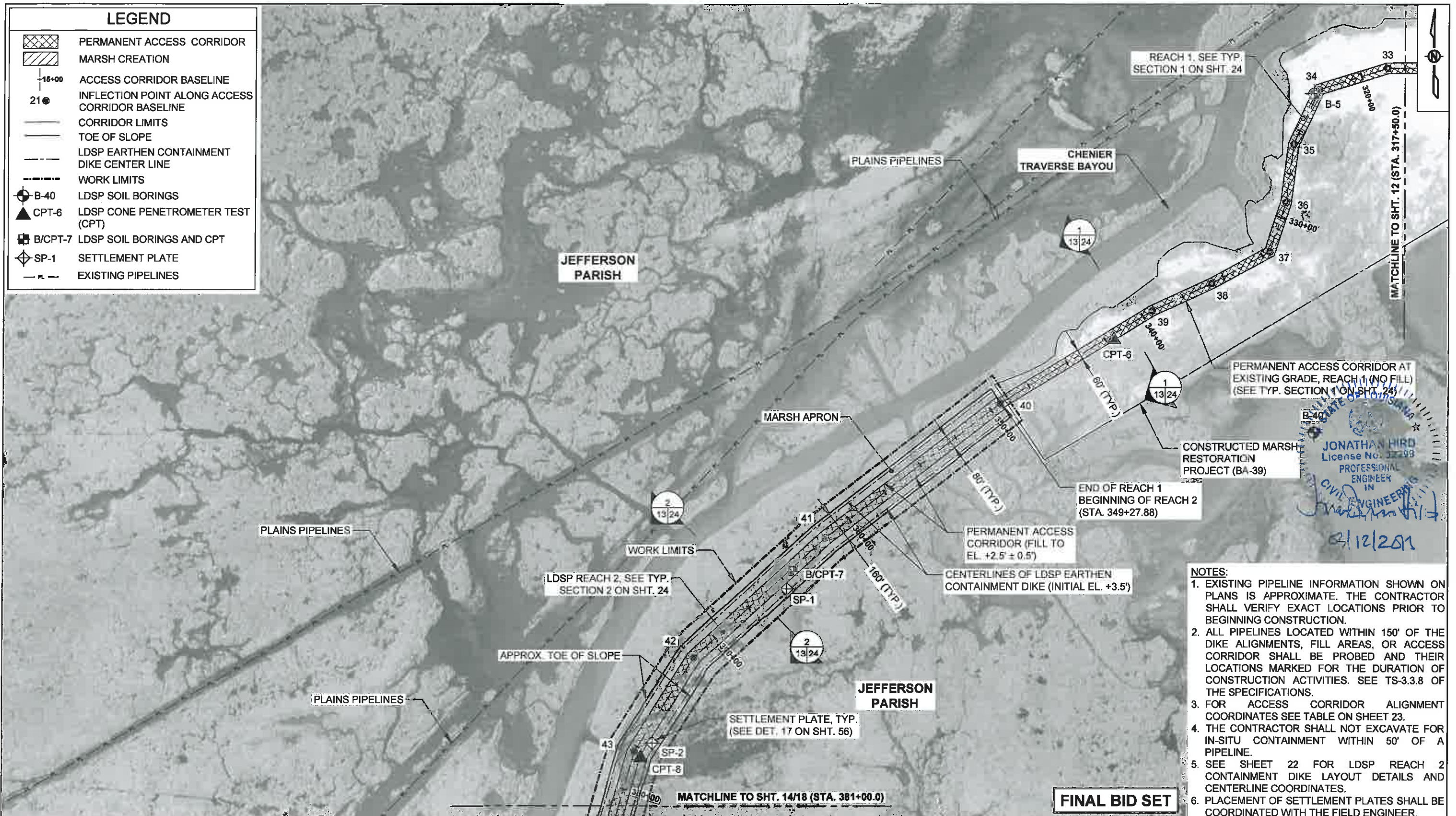
BASE BID:  
 ACCESS CORRIDOR AND MARSH CREATION LAYOUT (2 OF 7)

DATE: MARCH 8, 2013

SHEET 12 OF 81

**LEGEND**

-  PERMANENT ACCESS CORRIDOR
-  MARSH CREATION
-  ACCESS CORRIDOR BASELINE
-  INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
-  CORRIDOR LIMITS
-  TOE OF SLOPE
-  LDSP EARTHEN CONTAINMENT DIKE CENTER LINE
-  WORK LIMITS
-  LDSP SOIL BORINGS
-  LDSP CONE PENETROMETER TEST (CPT)
-  LDSP SOIL BORINGS AND CPT
-  SETTLEMENT PLATE
-  EXISTING PIPELINES



  
**JONATHAN HIRD**  
 License No. 32298  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3/12/2011

- NOTES:**
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR ACCESS CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 23.
  4. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  5. SEE SHEET 22 FOR LDSP REACH 2 CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.
  6. PLACEMENT OF SETTLEMENT PLATES SHALL BE COORDINATED WITH THE FIELD ENGINEER.

**FINAL BID SET**



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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075



















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

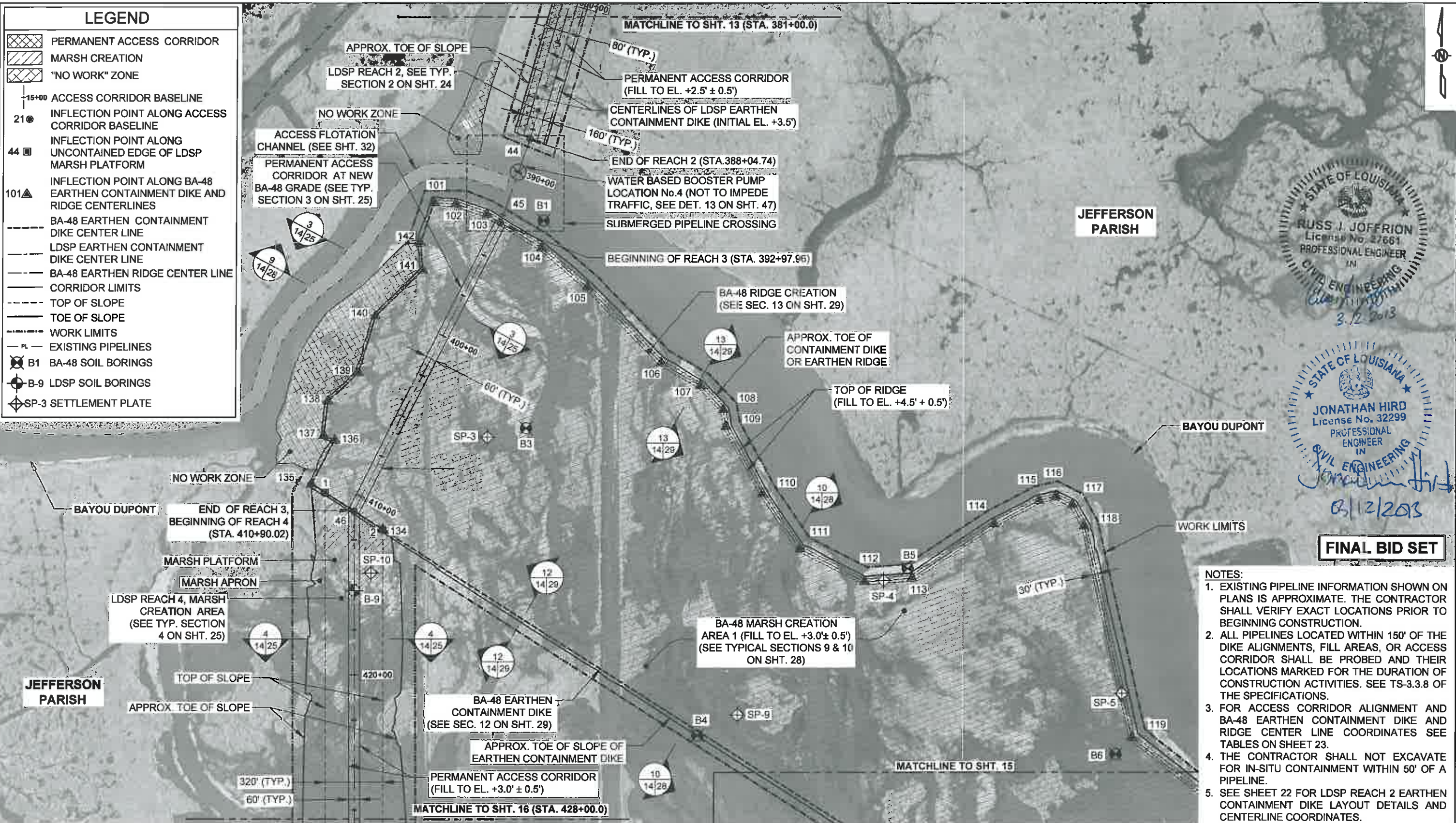
DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-43  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID:  
 ACCESS CORRIDOR AND MARSH CREATION LAYOUT (3 OF 7)  
 DATE: MARCH 8, 2013  
 SHEET 13 OF 81

**LEGEND**

-  PERMANENT ACCESS CORRIDOR
-  MARSH CREATION
-  "NO WORK" ZONE
-  ACCESS CORRIDOR BASELINE
-  21 INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
-  44 INFLECTION POINT ALONG UNCONTAINED EDGE OF LDSP MARSH PLATFORM
-  101 INFLECTION POINT ALONG BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTERLINES
-  BA-48 EARTHEN CONTAINMENT DIKE CENTER LINE
-  LDSP EARTHEN CONTAINMENT DIKE CENTER LINE
-  BA-48 EARTHEN RIDGE CENTER LINE
-  CORRIDOR LIMITS
-  TOP OF SLOPE
-  TOE OF SLOPE
-  WORK LIMITS
-  PL EXISTING PIPELINES
-  B1 BA-48 SOIL BORINGS
-  B-9 LDSP SOIL BORINGS
-  SP-3 SETTLEMENT PLATE



STATE OF LOUISIANA  
 RUSSELL JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3/12/2013

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3/12/2013

**FINAL BID SET**

- NOTES:**
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR ACCESS CORRIDOR ALIGNMENT AND BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTER LINE COORDINATES SEE TABLES ON SHEET 23.
  4. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  5. SEE SHEET 22 FOR LDSP REACH 2 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.



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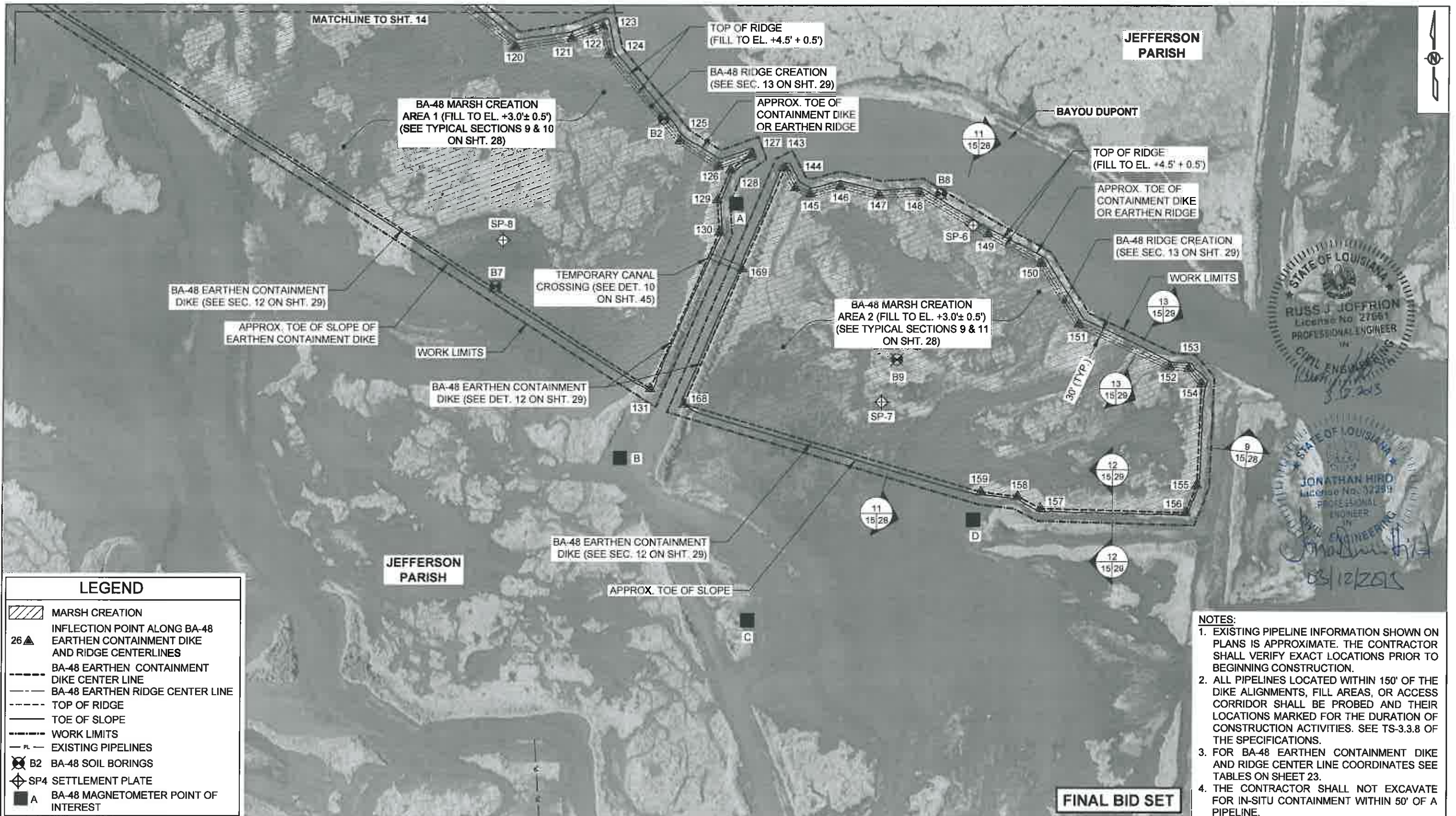
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (4 OF 7)  
 DATE: MARCH 8, 2013  
 SHEET 14 OF 81

DRAWN BY: YC      DESIGNED BY: SA & RJ



STATE OF LOUISIANA  
 RUSSELL JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 03/10/2015

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32289  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 03/10/2015

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  - FOR BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTER LINE COORDINATES SEE TABLES ON SHEET 23.
  - THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.

**FINAL BID SET**

**LEGEND**

- MARSH CREATION
- INFLECTION POINT ALONG BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTERLINES
- BA-48 EARTHEN CONTAINMENT DIKE CENTER LINE
- BA-48 EARTHEN RIDGE CENTER LINE
- TOP OF RIDGE
- TOE OF SLOPE
- WORK LIMITS
- EXISTING PIPELINES
- BA-48 SOIL BORINGS
- SETTLEMENT PLATE
- BA-48 MAGNETOMETER POINT OF INTEREST



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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

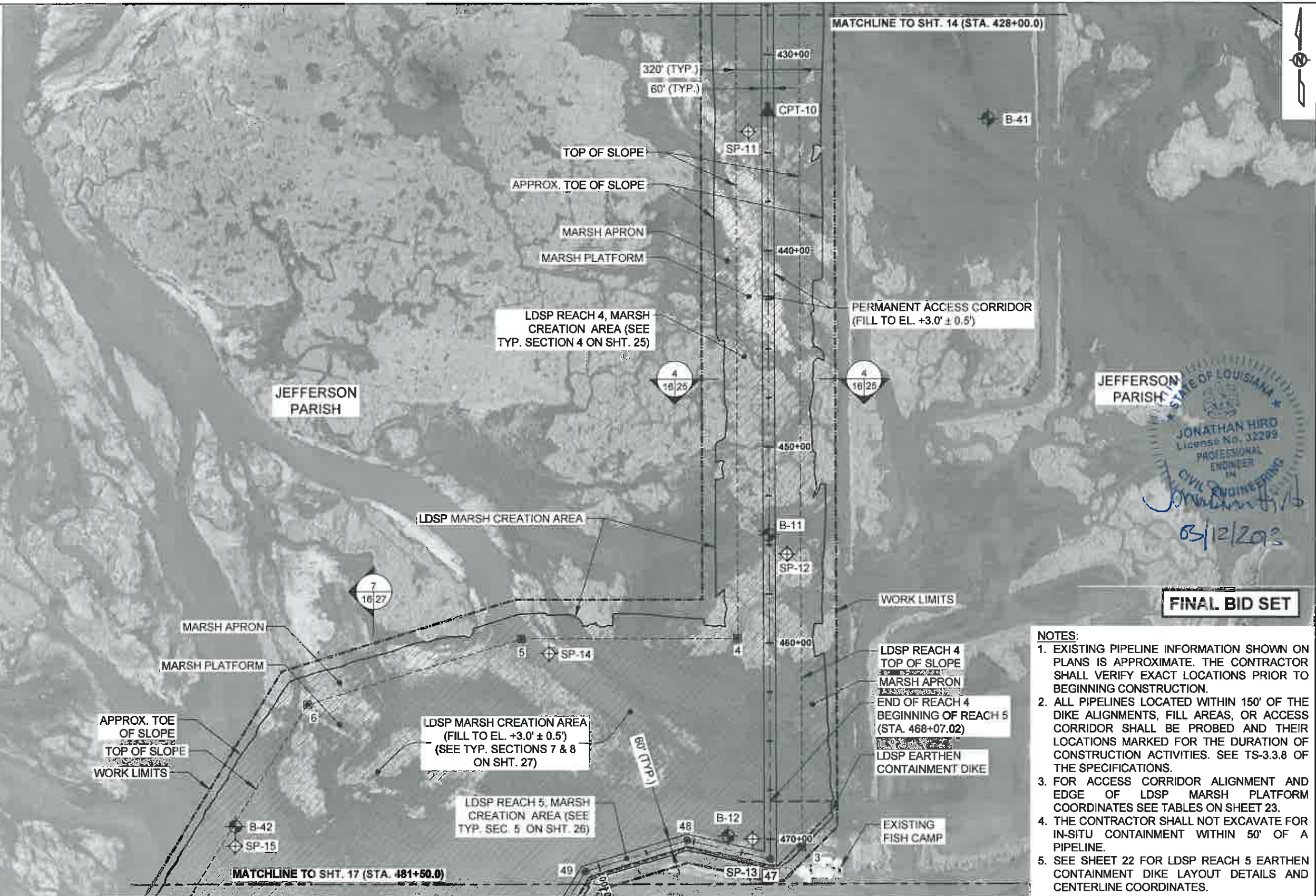
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (5 OF 7)  
 DATE: MARCH 8, 2013  
 SHEET 15 OF 81

DRAWN BY: YC      DESIGNED BY: RJ

### LEGEND

|  |  |
|--|--|
|  | PERMANENT ACCESS CORRIDOR                                      |
|  | LDSP MARSH CREATION  |
|  | ACCESS CORRIDOR BASELINE                                       |
|  | INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE                |
|  | INFLECTION POINT ALONG LDSP UNCONTAINED EDGE OF MARSH PLATFORM |
|  | LDSP EARTHEN CONTAINMENT DIKE                                  |
|  | CORRIDOR LIMITS  |
|  | MARSH TOP OF SLOPE   |
|  | MARSH TOE OF SLOPE   |
|  | WORK LIMITS  |
|  | EXISTING PIPELINES   |
|  | LDSP SOIL BORINGS  |
|  | LDSP CONE PENETROMETER TEST (CPT)                              |
|  | SETTLEMENT PLATE   |

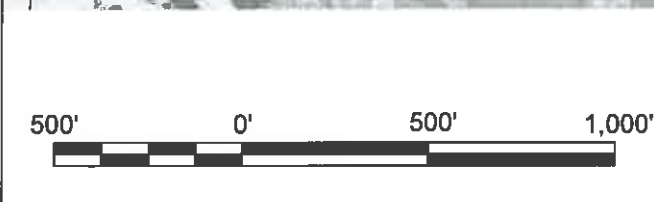


JEFFERSON PARISH

STATE OF LOUISIANA  
 JONATHAN HIRO  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hiro*  
 03/12/2013

**FINAL BID SET**

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  - FOR ACCESS CORRIDOR ALIGNMENT AND EDGE OF LDSP MARSH PLATFORM COORDINATES SEE TABLES ON SHEET 23.
  - THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  - SEE SHEET 22 FOR LDSP REACH 5 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.


















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 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70826  
 225-336-2075

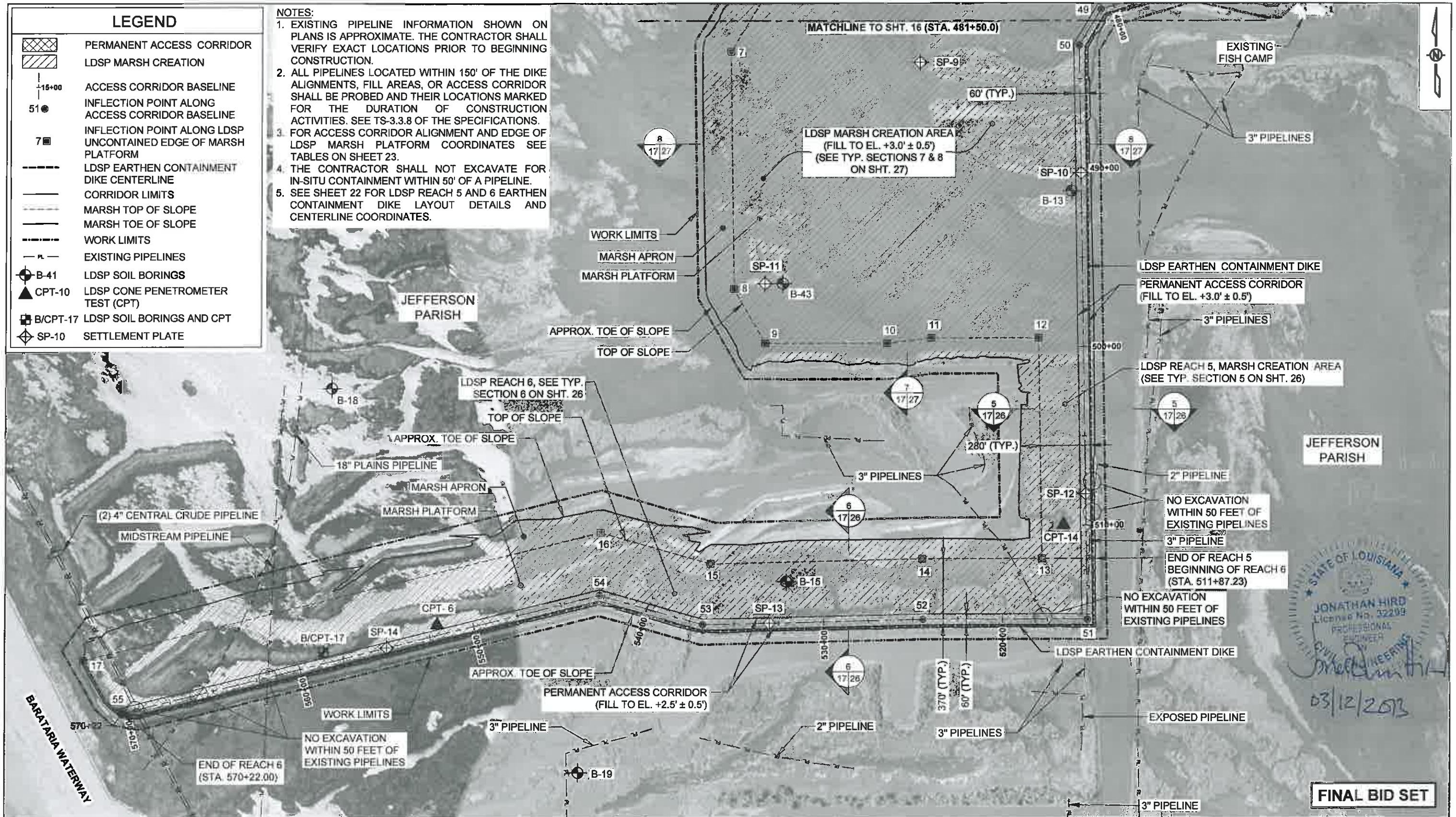
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| <b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b><br>450 LAUREL STREET<br>BATON ROUGE, LOUISIANA 70801 |  | MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION | BASE BID:<br>ACCESS CORRIDOR AND MARSH CREATION LAYOUT (6 OF 7) |
| DRAWN BY: YC   |  | DESIGNED BY: SA  | DATE: MARCH 8, 2013   |
| APPROVED BY: MAURY CHATELLIER, P.E.  |  | SHEET 16 OF 81   |   |



**LEGEND**

-  PERMANENT ACCESS CORRIDOR
-  LDSP MARSH CREATION
-  ACCESS CORRIDOR BASELINE
-  INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
-  UNCONTAINED EDGE OF MARSH PLATFORM
-  LDSP EARTHEN CONTAINMENT DIKE CENTERLINE
-  CORRIDOR LIMITS
-  MARSH TOP OF SLOPE
-  MARSH TOE OF SLOPE
-  WORK LIMITS
-  EXISTING PIPELINES
-  B-41 LDSP SOIL BORINGS
-  CPT-10 LDSP CONE PENETROMETER TEST (CPT)
-  B/CPT-17 LDSP SOIL BORINGS AND CPT
-  SP-10 SETTLEMENT PLATE

- NOTES:**
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR ACCESS CORRIDOR ALIGNMENT AND EDGE OF LDSP MARSH PLATFORM COORDINATES SEE TABLES ON SHEET 23.
  4. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  5. SEE SHEET 22 FOR LDSP REACH 5 AND 6 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.



STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32209  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 03/12/2013

**FINAL BID SET**



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

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

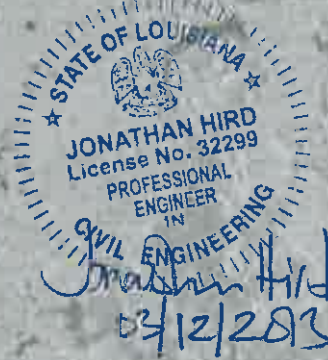
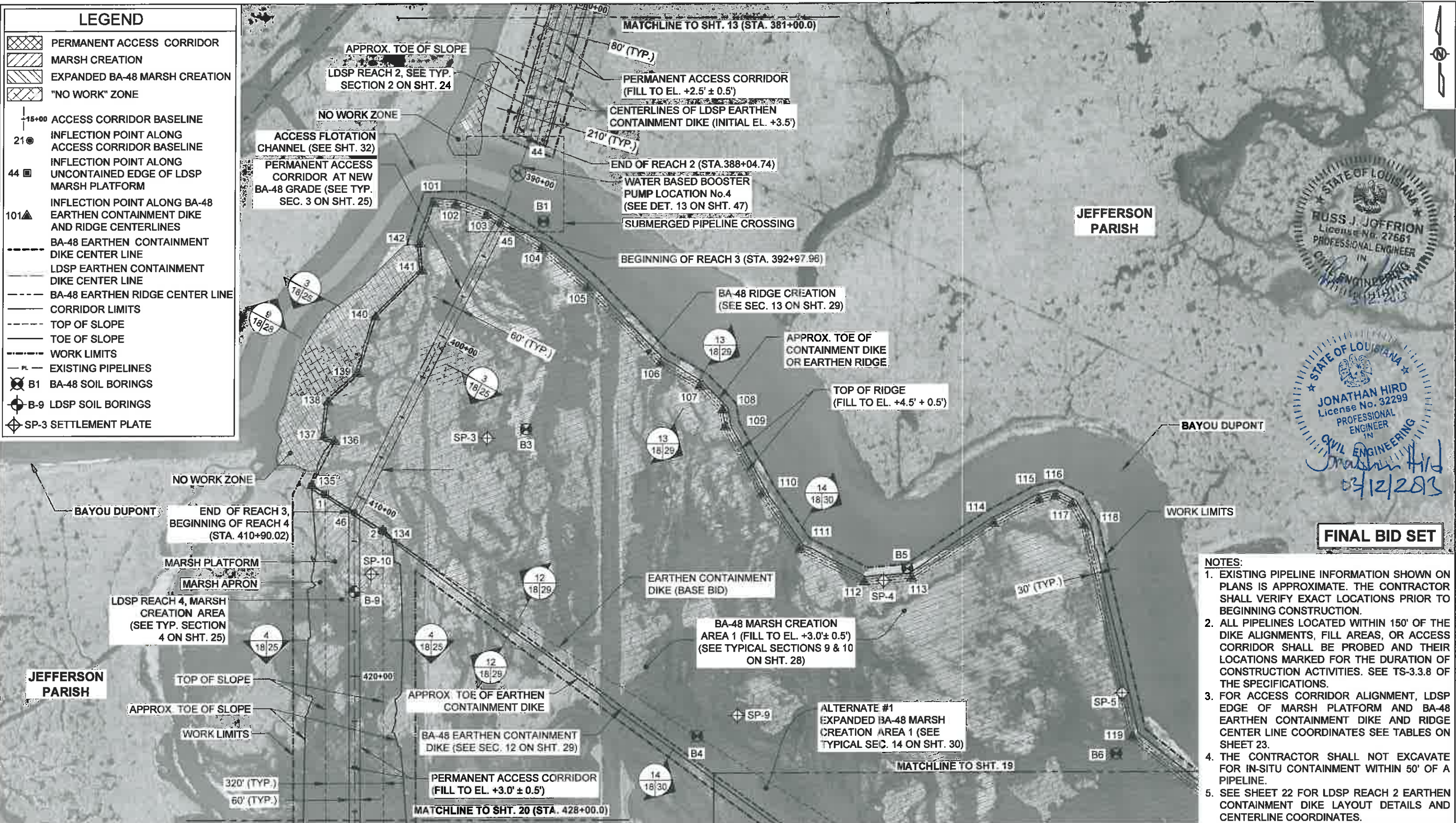
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC      DESIGNED BY: SA      APPROVED BY: MAURY CHATELLIER, P.E.      MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION      STATE PROJECT NUMBER: BA-43 (EB) AND BA-48      DATE: MARCH 8, 2013      SHEET 17 OF 81

BASE BID:  
 ACCESS CORRIDOR  
 AND MARSH CREATION  
 LAYOUT (7 OF 7)

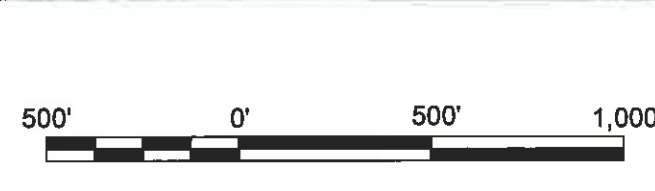
**LEGEND**

-  PERMANENT ACCESS CORRIDOR
-  MARSH CREATION
-  EXPANDED BA-48 MARSH CREATION
-  "NO WORK" ZONE
-  15+00 ACCESS CORRIDOR BASELINE
-  21 INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
-  44 INFLECTION POINT ALONG UNCONTAINED EDGE OF LDSP MARSH PLATFORM
-  101 INFLECTION POINT ALONG BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTERLINES
-  BA-48 EARTHEN CONTAINMENT DIKE CENTER LINE
-  LDSP EARTHEN CONTAINMENT DIKE CENTER LINE
-  BA-48 EARTHEN RIDGE CENTER LINE
-  CORRIDOR LIMITS
-  TOP OF SLOPE
-  TOE OF SLOPE
-  WORK LIMITS
-  EXISTING PIPELINES
-  B1 BA-48 SOIL BORINGS
-  B-9 LDSP SOIL BORINGS
-  SP-3 SETTLEMENT PLATE



**FINAL BID SET**

- NOTES:**
1. EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR ACCESS CORRIDOR ALIGNMENT, LDSP EDGE OF MARSH PLATFORM AND BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTER LINE COORDINATES SEE TABLES ON SHEET 23.
  4. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  5. SEE SHEET 22 FOR LDSP REACH 2 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.



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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA & RJ

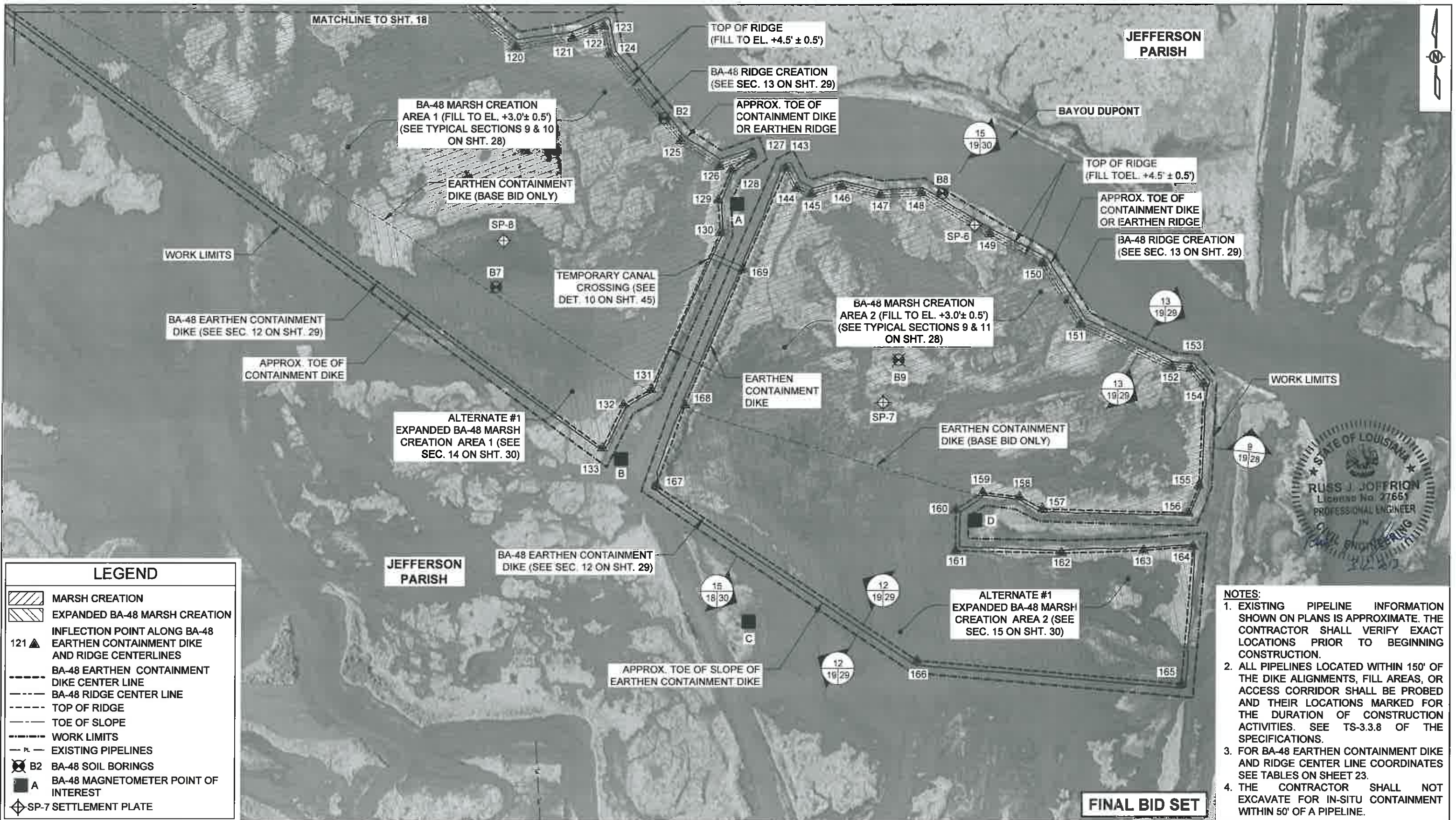
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

ADDITIVE ALTERNATE #1: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (1 OF 2)

DATE: MARCH 8, 2013

SHEET 18 OF 81



| LEGEND |   |
|--------|---|
|        | MARSH CREATION  |
|        | EXPANDED BA-48 MARSH CREATION   |
|        | INFLECTION POINT ALONG BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTERLINES |
|        | BA-48 EARTHEN CONTAINMENT DIKE CENTER LINE                                  |
|        | BA-48 RIDGE CENTER LINE   |
|        | TOP OF RIDGE  |
|        | TOE OF SLOPE  |
|        | WORK LIMITS   |
|        | EXISTING PIPELINES  |
|        | BA-48 SOIL BORINGS  |
|        | BA-48 MAGNETOMETER POINT OF INTEREST  |
|        | SP-7 SETTLEMENT PLATE   |

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  - FOR BA-48 EARTHEN CONTAINMENT DIKE AND RIDGE CENTER LINE COORDINATES SEE TABLES ON SHEET 23.
  - THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.



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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: RJ

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

















ADDITIVE ALTERNATE #1: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (2 OF 2)

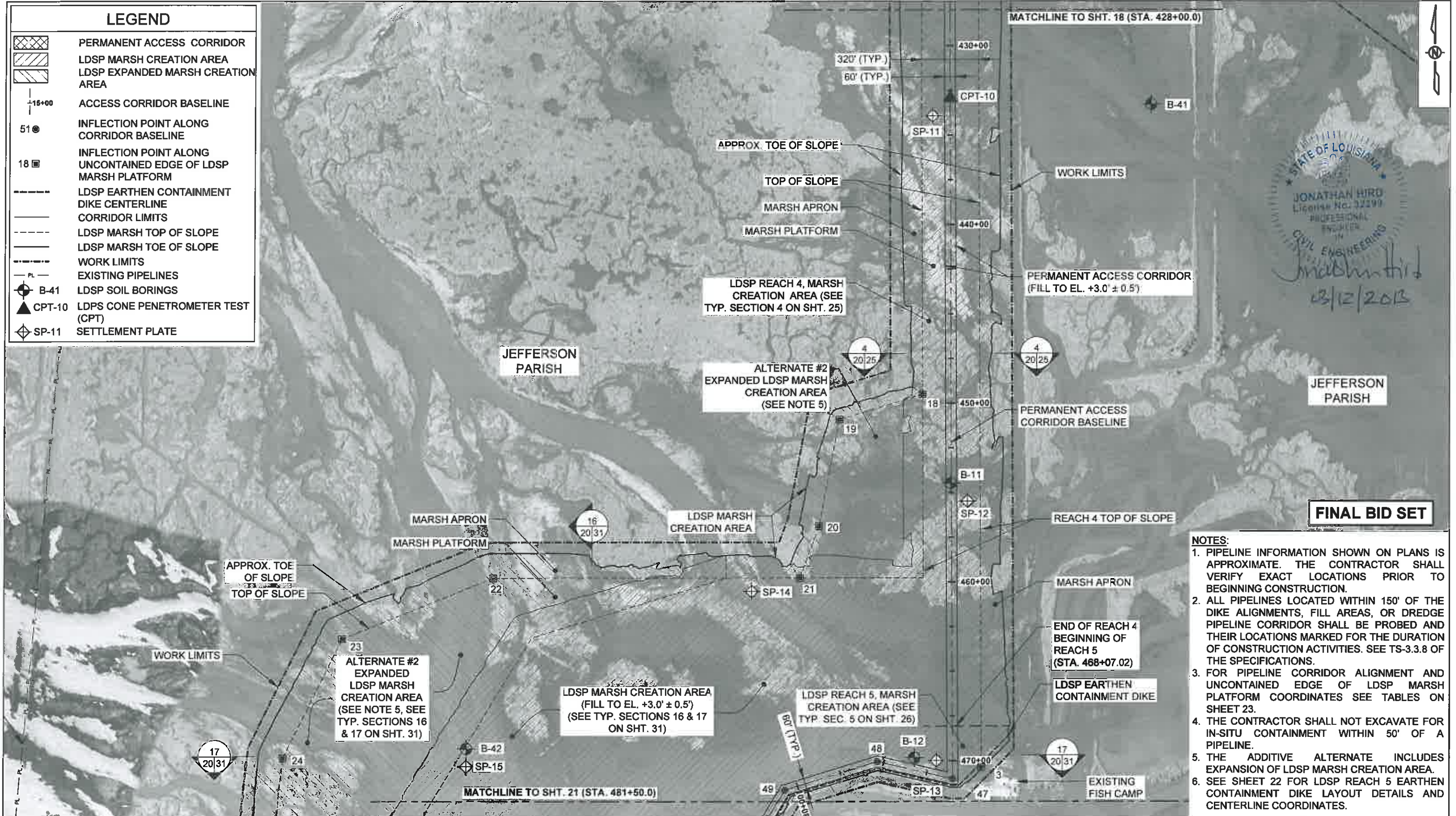
DATE: MARCH 8, 2013

SHEET 19 OF 81

**FINAL BID SET**

**LEGEND**

-  PERMANENT ACCESS CORRIDOR
-  LDSP MARSH CREATION AREA
-  LDSP EXPANDED MARSH CREATION AREA
-  ACCESS CORRIDOR BASELINE
-  INFLECTION POINT ALONG CORRIDOR BASELINE
-  51 INFLECTION POINT ALONG UNCONTAINED EDGE OF LDSP MARSH PLATFORM
-  18
-  LDSP EARTHEN CONTAINMENT DIKE CENTERLINE
-  CORRIDOR LIMITS
-  LDSP MARSH TOP OF SLOPE
-  LDSP MARSH TOE OF SLOPE
-  WORK LIMITS
-  EXISTING PIPELINES
-  B-41 LDSP SOIL BORINGS
-  CPT-10 LDSPS CONE PENETROMETER TEST (CPT)
-  SP-11 SETTLEMENT PLATE



STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32199  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 J. HIRD  
 03/12/2013

**FINAL BID SET**

- NOTES:**
1. PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR DREDGE PIPELINE CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  3. FOR PIPELINE CORRIDOR ALIGNMENT AND UNCONTAINED EDGE OF LDSP MARSH PLATFORM COORDINATES SEE TABLES ON SHEET 23.
  4. THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  5. THE ADDITIVE ALTERNATE INCLUDES EXPANSION OF LDSP MARSH CREATION AREA.
  6. SEE SHEET 22 FOR LDSP REACH 5 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.



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 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

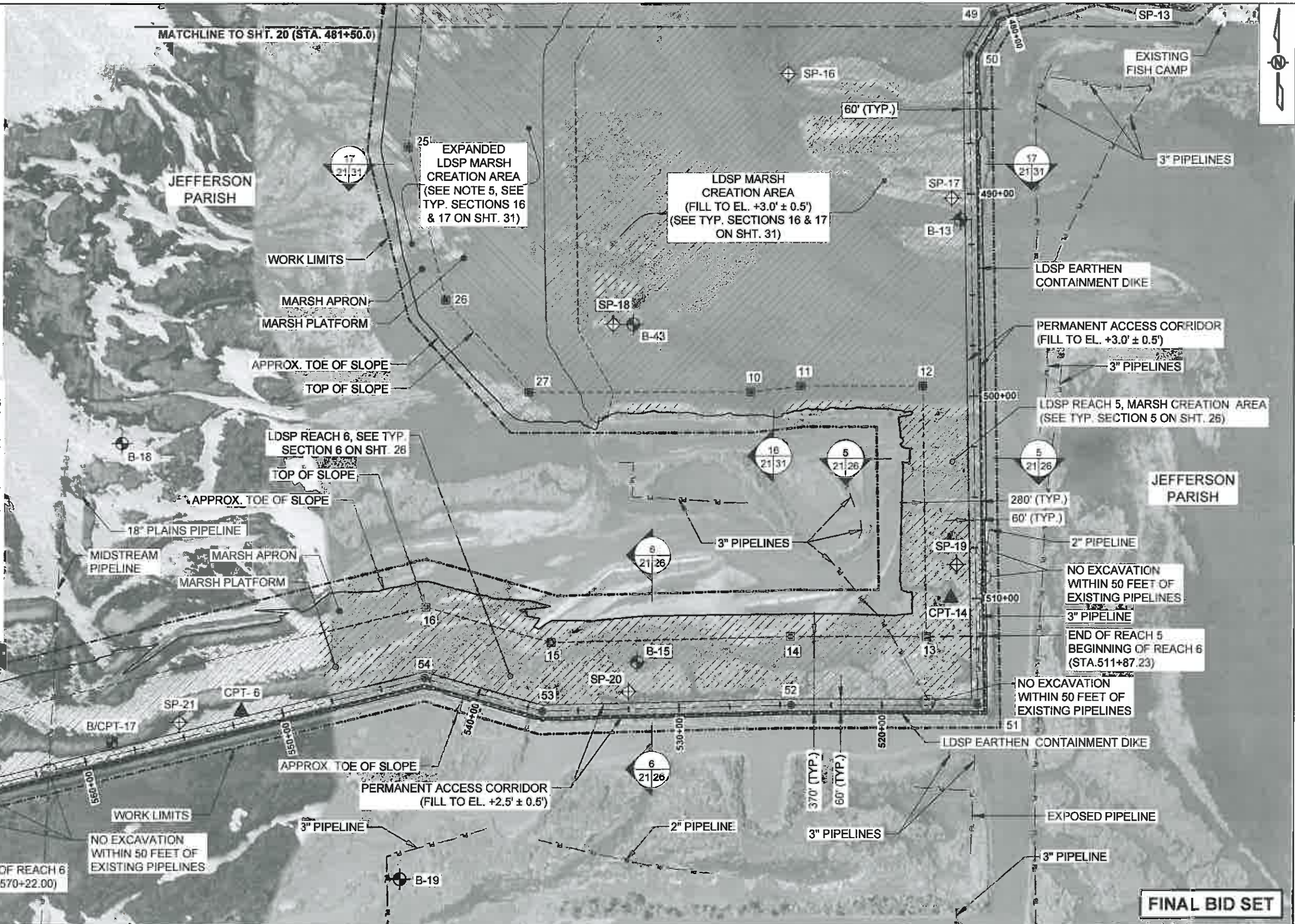
ADDITIVE ALTERNATE #2: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (1 OF 2)  
 DATE: MARCH 8, 2013  
 SHEET 20 OF 81

DRAWN BY: YC      DESIGNED BY: SA

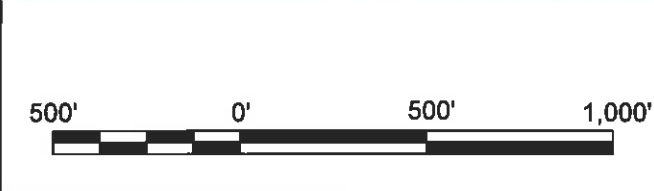
### LEGEND

- PERMANENT ACCESS CORRIDOR
- LDSP MARSH CREATION
- LDSP EXPANDED MARSH CREATION
- ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG LDSP CORRIDOR BASELINE
- UNCONTAINED EDGE OF MARSH PLATFORM
- LDSP EARTHEN CONTAINMENT DIKE CENTERLINE
- CORRIDOR LIMITS
- MARSH TOP OF SLOPE
- MARSH TOE OF SLOPE
- WORK LIMITS
- EXISTING PIPELINES
- LDSP SOIL BORINGS
- LDSP CONE PENETROMETER TEST (CPT)
- LDSP SOIL BORINGS AND CPT
- SETTLEMENT PLATE

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS, FILL AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  - FOR PIPELINE CORRIDOR ALIGNMENT AND UNCONTAINED EDGE OF LDSP MARSH PLATFORM COORDINATES SEE TABLES ON SHEET 23.
  - THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.
  - THE ADDITIVE ALTERNATE INCLUDES EXPANSION OF LDSP MARSH CREATION AREA.
  - SEE SHEET 22 FOR LDSP REACH 5 AND 6 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.



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**JONATHAN HIRD**  
 License No. 32238  
 PROFESSIONAL ENGINEER  
 IN ENGINEERING  
 02/12/2013



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 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

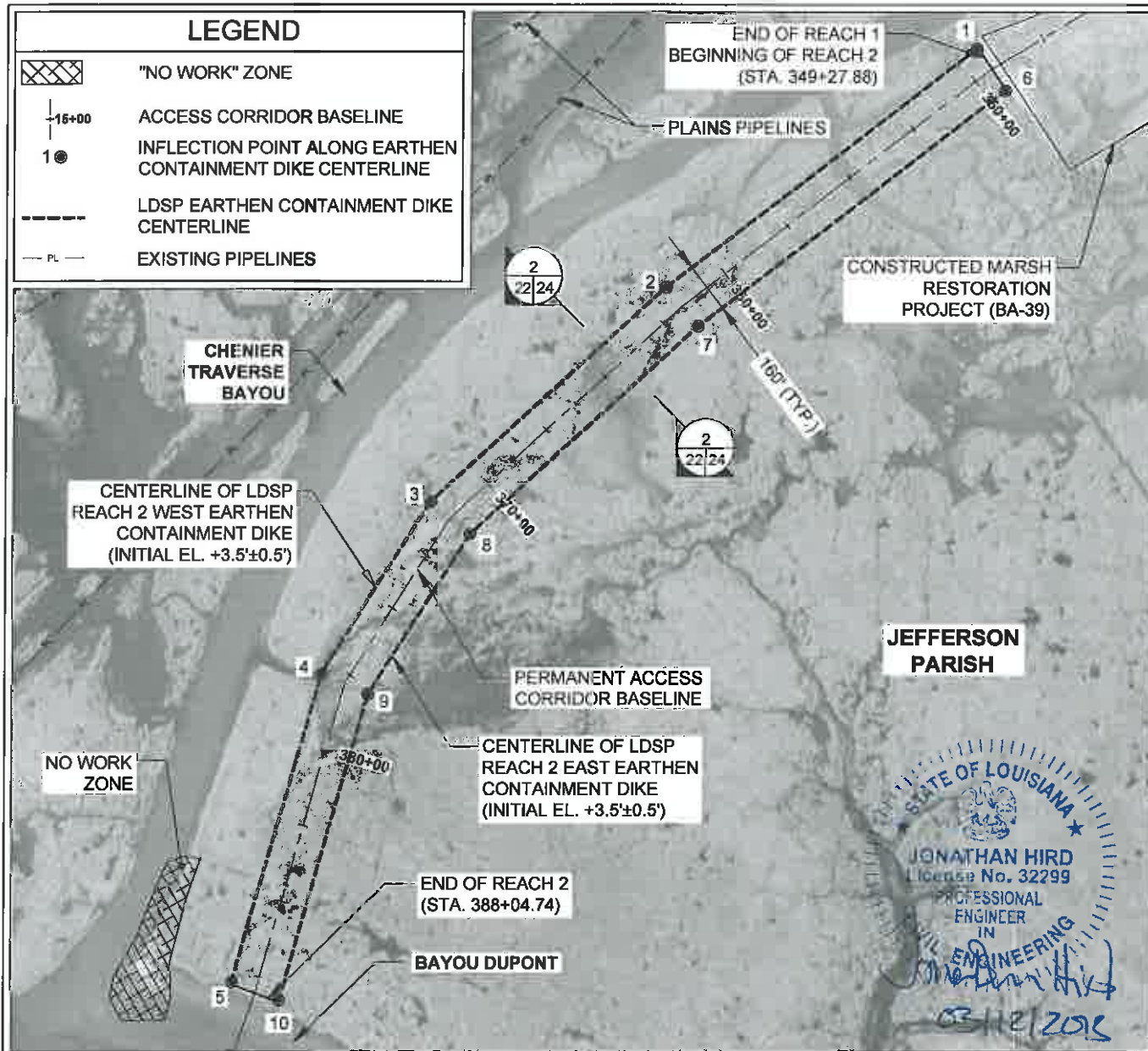
APPROVED BY: MAURY CHATELLIER, P.E.

ADDITIVE ALTERNATE #2: ACCESS CORRIDOR AND MARSH CREATION LAYOUT (2 OF 2)

DATE: MARCH 8, 2013

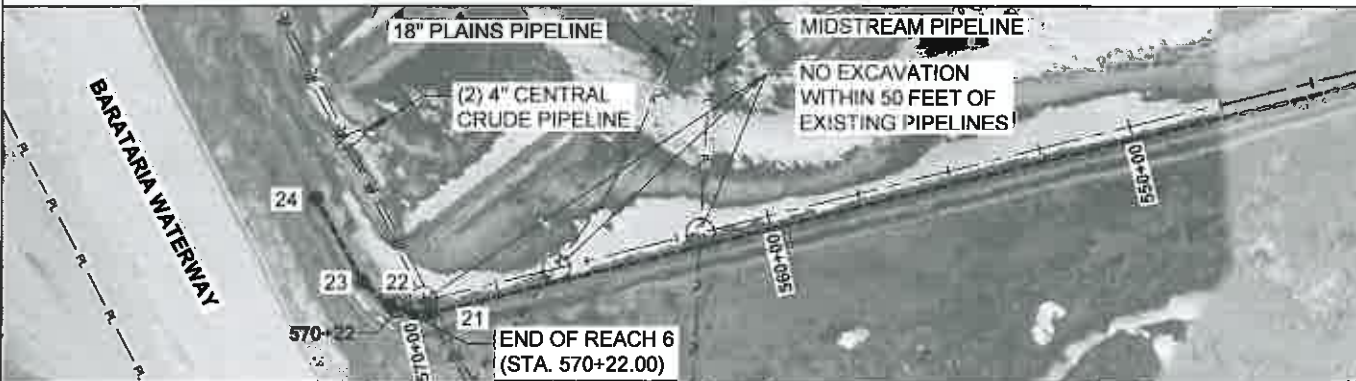
SHEET 21 OF 81

**FINAL BID SET**



**LDSP REACH 2 - EARTHEN CONTAINMENT DIKES**

SCALE: 1" = 500'



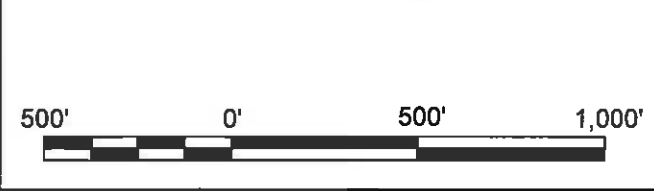
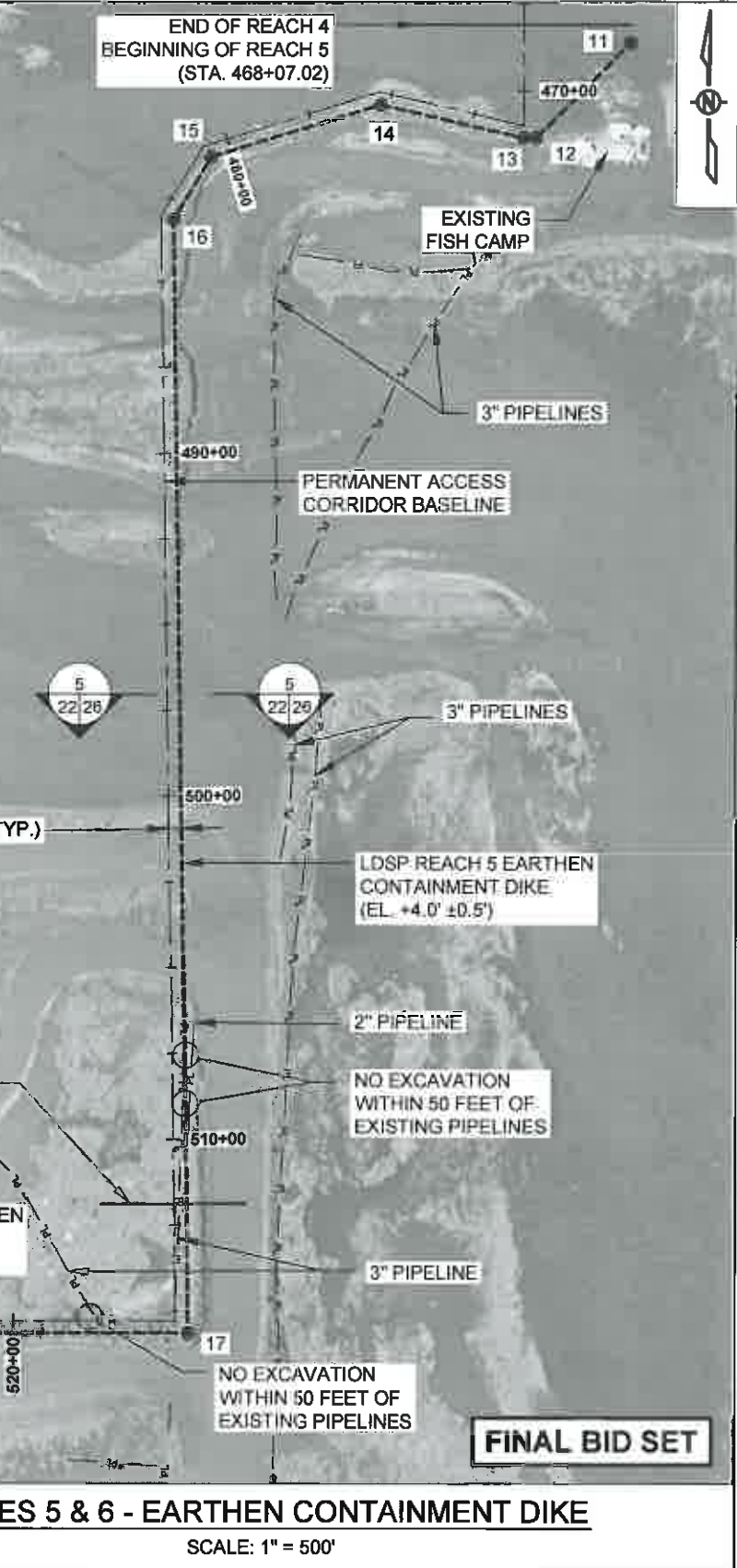
**LDSP REACHES 5 & 6 - EARTHEN CONTAINMENT DIKE**

SCALE: 1" = 500'

**LDSP EARTHEN CONTAINMENT DIKE**

| PT. | EASTING      | NORTHING   |
|-----|--------------|------------|
| 1   | 3,691,491.78 | 418,277.36 |
| 2   | 3,690,508.98 | 417,520.81 |
| 3   | 3,689,768.17 | 416,841.76 |
| 4   | 3,689,425.52 | 416,296.36 |
| 5   | 3,689,145.80 | 415,318.18 |
| 6   | 3,689,295.37 | 415,259.28 |
| 7   | 3,689,573.10 | 416,230.50 |
| 8   | 3,689,892.18 | 416,738.38 |
| 9   | 3,690,611.71 | 417,397.93 |
| 10  | 3,691,581.60 | 418,144.53 |
| 11  | 3,688,593.78 | 407,444.49 |
| 12  | 3,688,319.29 | 407,166.96 |
| 13  | 3,688,281.72 | 407,166.60 |
| 14  | 3,687,862.78 | 407,262.61 |
| 15  | 3,687,368.62 | 407,110.85 |
| 16  | 3,687,259.43 | 406,929.10 |
| 17  | 3,687,309.95 | 403,686.11 |
| 18  | 3,686,355.47 | 403,686.11 |
| 19  | 3,685,120.39 | 403,657.03 |
| 20  | 3,684,545.99 | 403,820.11 |
| 21  | 3,681,969.33 | 403,181.63 |
| 22  | 3,681,862.83 | 403,200.50 |
| 23  | 3,681,788.28 | 403,266.71 |
| 24  | 3,681,662.00 | 403,491.20 |

- NOTES:**
- EXISTING PIPELINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  - ALL PIPELINES LOCATED WITHIN 150' OF THE DIKE ALIGNMENTS SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. SEE TS-3.3.8 OF THE SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOT EXCAVATE FOR IN-SITU CONTAINMENT WITHIN 50' OF A PIPELINE.



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 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

LDSP EARTHEN CONTAINMENT DIKE LAYOUT & COORDINATES

DATE: MARCH 8, 2013

SHEET 22 OF 81

ACCESS CHANNEL ALIGNMENT ACCESS CORRIDOR BASELINE

Table with columns PT., EASTING, NORTHING. Contains 61 rows of coordinate data for the Access Channel Alignment.

Table with columns PT., EASTING, NORTHING. Contains 55 rows of coordinate data for the Access Corridor Baseline.

UNCONTAINED EDGE OF LDSP MARSH PLATFORM (BASE BID)

Table with columns PT., EASTING, NORTHING. Contains 17 rows of coordinate data for the Uncontained Edge of LDSP Marsh Platform (Base Bid).

UNCONTAINED EDGE OF LDSP MARSH PLATFORM (ADDITIVE ALTERNATE #2)

Table with columns PT., EASTING, NORTHING. Contains 27 rows of coordinate data for the Uncontained Edge of LDSP Marsh Platform (Additive Alternate #2).

BA-48 MARSH CREATION AREA 1 RIDGE CENTERLINE

Table with columns PT., EASTING, NORTHING. Contains 127 rows of coordinate data for the BA-48 Marsh Creation Area 1 Ridge Centerline.

BA-48 MARSH CREATION AREA 2 RIDGE CENTERLINE

Table with columns PT., EASTING, NORTHING. Contains 154 rows of coordinate data for the BA-48 Marsh Creation Area 2 Ridge Centerline.

BA-48 MARSH CREATION AREA 1 DIKE CENTERLINE (BASE BID)

Table with columns PT., EASTING, NORTHING. Contains 142 rows of coordinate data for the BA-48 Marsh Creation Area 1 Dike Centerline (Base Bid).

BA-48 MARSH CREATION AREA 1 DIKE CENTERLINE (ADDITIVE ALTERNATE #1)

Table with columns PT., EASTING, NORTHING. Contains 142 rows of coordinate data for the BA-48 Marsh Creation Area 1 Dike Centerline (Additive Alternate #1).

BA-48 MARSH CREATION AREA 2 DIKE CENTERLINE (BASE BID)

Table with columns PT., EASTING, NORTHING. Contains 169 rows of coordinate data for the BA-48 Marsh Creation Area 2 Dike Centerline (Base Bid).

BA-48 MARSH CREATION AREA 2 DIKE CENTERLINE (ADDITIVE ALTERNATE #1)

Table with columns PT., EASTING, NORTHING. Contains 169 rows of coordinate data for the BA-48 Marsh Creation Area 2 Dike Centerline (Additive Alternate #1).

BA-48 MAGNETOMETER POINTS OF INTEREST

Table with columns PT., EASTING, NORTHING. Contains 4 rows (A, B, C, D) of magnetometer points of interest.

PROPOSED SETTLEMENT PLATE COORDINATES (SEE NOTE 1)

Table with columns PT., EASTING, NORTHING. Contains 21 rows (SP-1 to SP-21) of proposed settlement plate coordinates.

NOTE: 1. LOCATION OF SETTLEMENT PLATES SHALL BE COORDINATED WITH THE FIELD ENGINEER.

POTENTIAL BOOSTER PUMP LOCATIONS

Table with columns PT., EASTING, NORTHING. Contains 4 rows of potential booster pump locations.



FINAL BID SET



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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

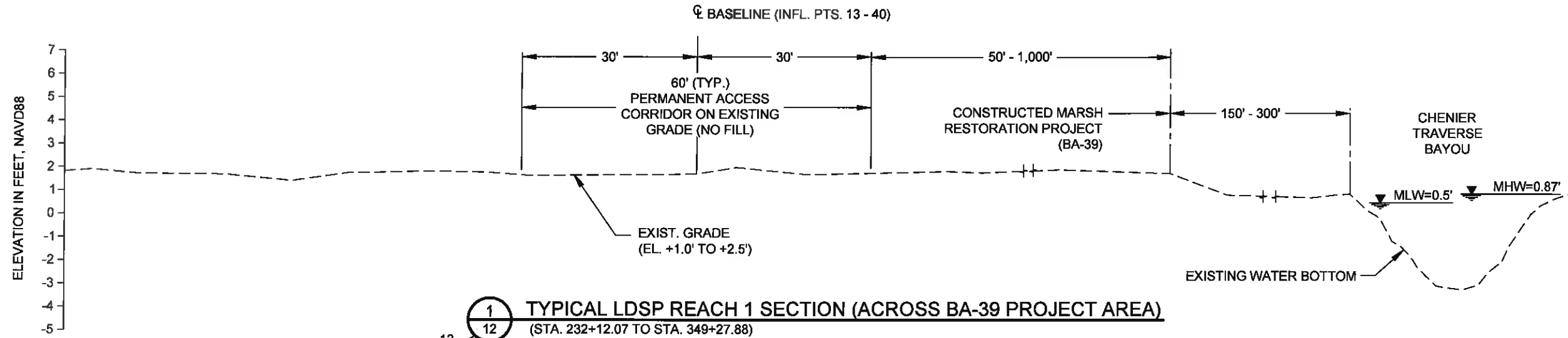
PROJECT FEATURES COORDINATES
DATE: MARCH 8, 2013

Table with columns REV., DATE, DESCRIPTION, BY. Contains one row for revisions.

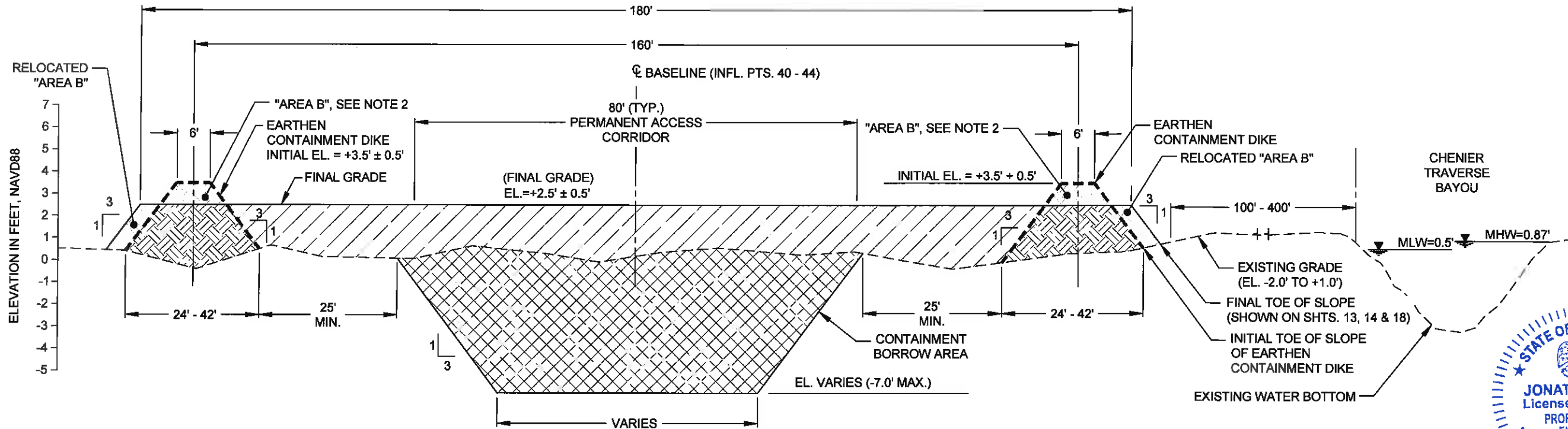
DRAWN BY: YC DESIGNED BY: SA

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SHEET 23 OF 81



**1** TYPICAL LDSP REACH 1 SECTION (ACROSS BA-39 PROJECT AREA)  
 (STA. 232+12.07 TO STA. 349+27.88)

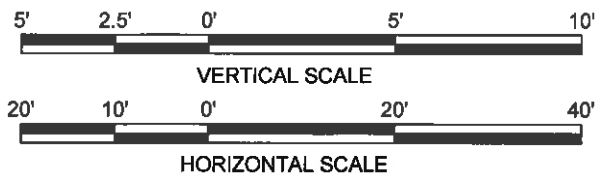


**2** TYPICAL LDSP REACH 2 SECTION (BETWEEN BA-39 & BAYOU DUPONT)  
 (STA. 349+27.88 TO STA. 388+04.74)

- NOTES:
- EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.
  - THE CONTRACTOR SHALL MECHANICALLY RELOCATE "AREA B" MATERIAL TO THE LOCATION LABELED "RELOCATED AREA B" PRIOR TO DEMOBILIZATION.

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

**FINAL BID SET**



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 BATON ROUGE, LA 70825  
 225-336-2075

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

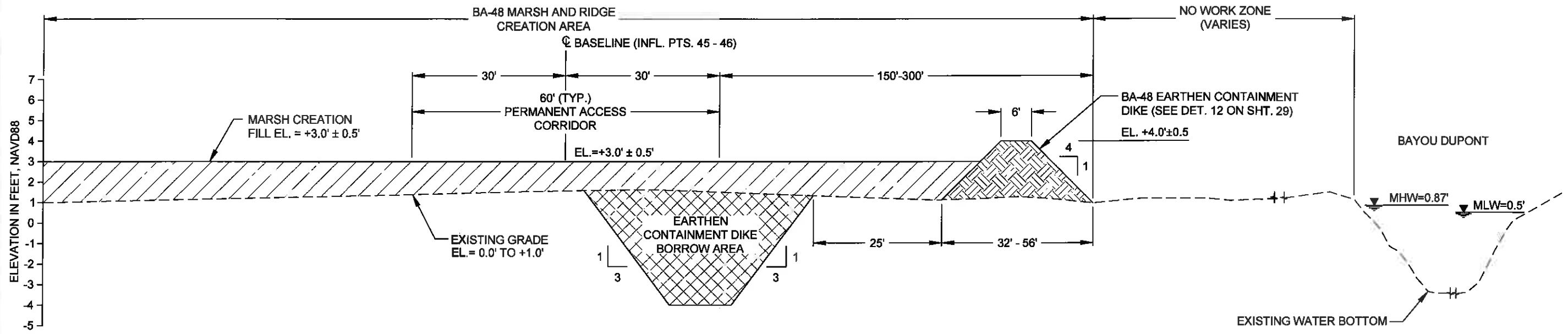
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: TYPICAL LDSP FILL SECTIONS (SHEET 1 OF 3)  
 DATE: MARCH 8, 2013  
 SHEET 24 OF 81

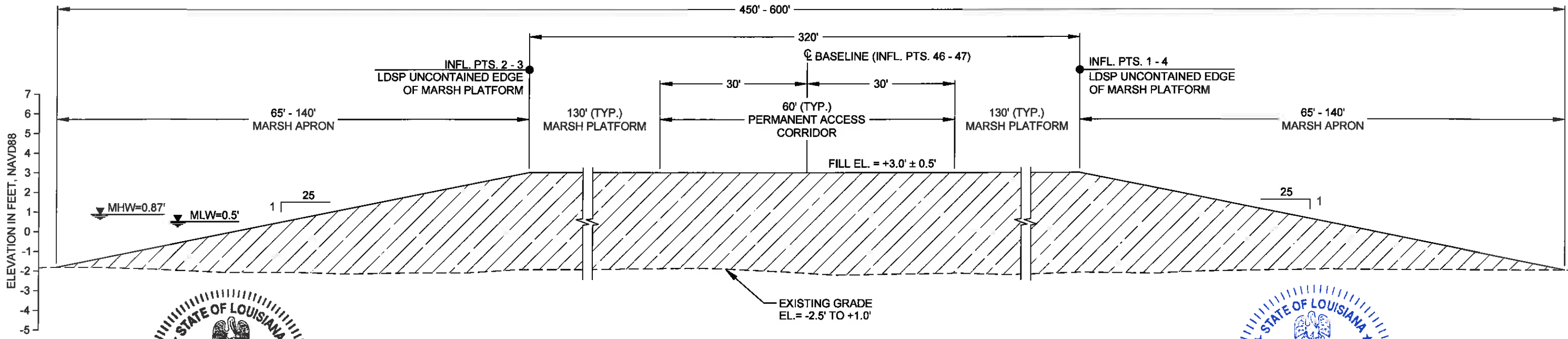
DRAWN BY: YC

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**3 TYPICAL LDSP REACH 3 SECTION (ACROSS BA-48 MARSH CREATION AREA)**  
 (STA. 392+97.96 TO STA. 410+90.02)

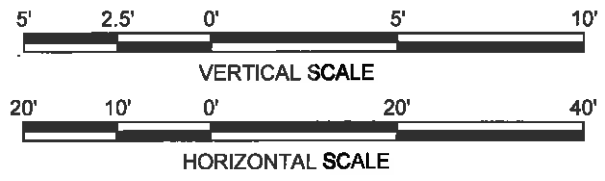


**4 TYPICAL LDSP REACH 4 SECTION (FROM BA-48 TO THE FISH CAMP)**  
 (STA. 410+90.02 TO STA. 468+07.02)

STATE OF LOUISIANA  
 ★ ★ ★  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*[Signature]*  
 5.12.2013

STATE OF LOUISIANA  
 ★ ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*[Signature]*  
 8/12/2013

**FINAL BID SET**



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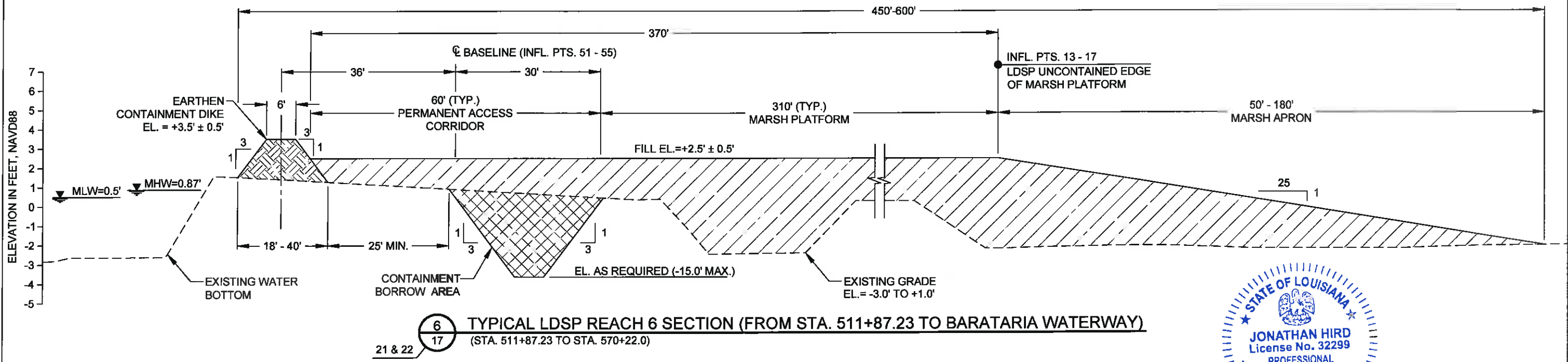
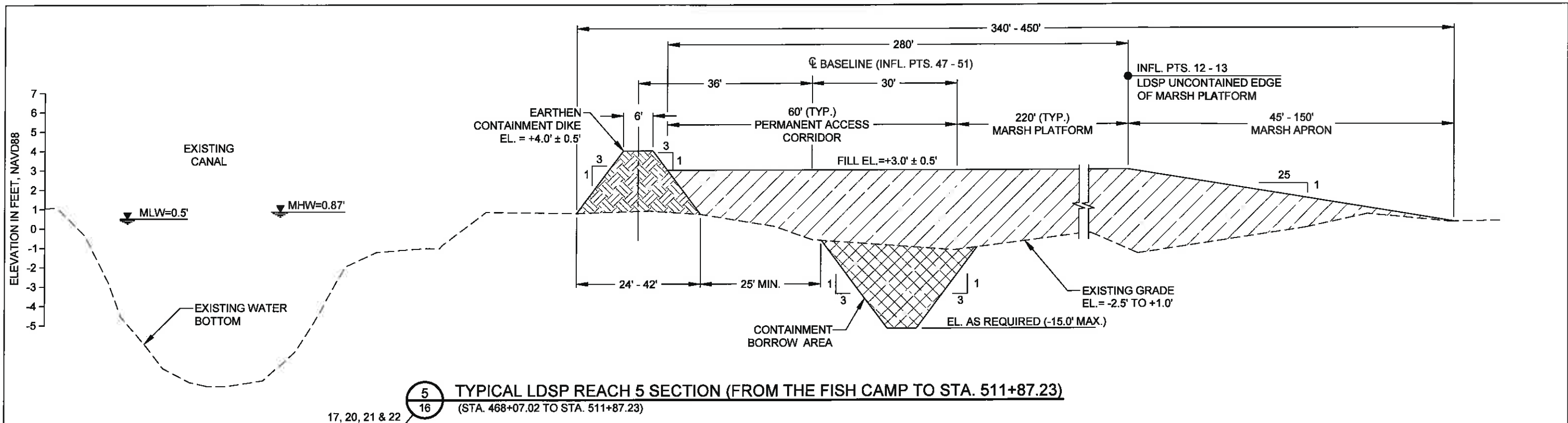
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 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-396-2075

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

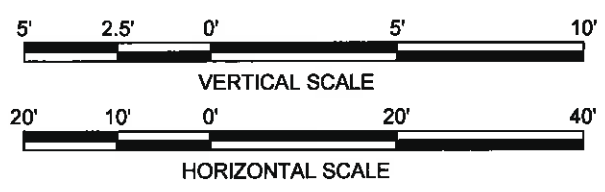
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

BASE BID: TYPICAL LDSP FILL SECTIONS (SHEET 2 OF 3)  
 DATE: MARCH 8, 2013

DRAWN BY: YC      DESIGNED BY: SA      APPROVED BY: MAURY CHATELLIER, P.E.      SHEET 25 OF 81



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



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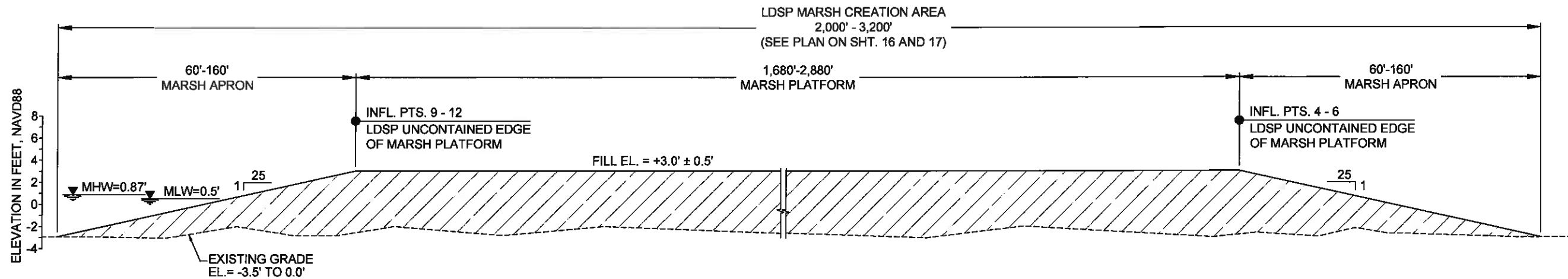
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
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*Jonathan Hird*  
 8/12/2013

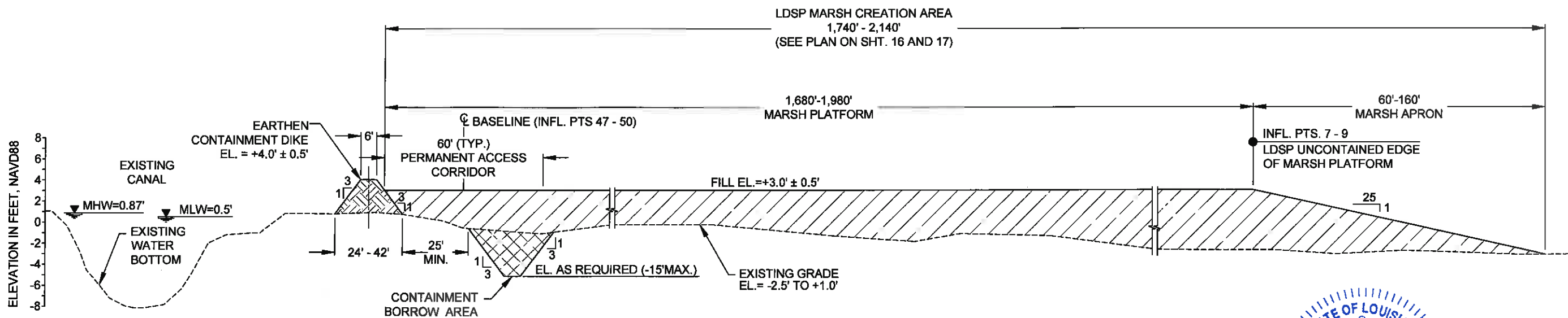
**FINAL BID SET**

BASE BID:  
 TYPICAL LDSP  
 FILL SECTIONS  
 (SHEET 3 OF 3)  
 DATE: MARCH 8, 2013  
 SHEET 26 OF 81

DRAWN BY: YC      DESIGNED BY: SA

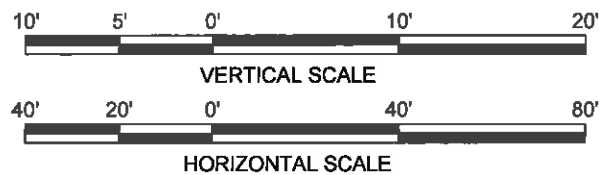


**7** TYPICAL FILL SECTION ACROSS LDSP MARSH CREATION AREA  
 (SOUTH TO NORTH)



**8** TYPICAL FILL SECTION ACROSS LDSP 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.



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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

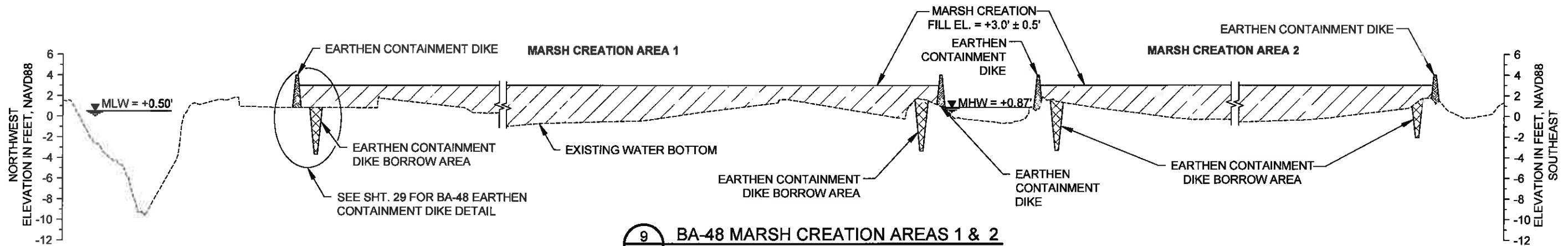
BASE BID:  
 LDSP MARSH CREATION AREA  
 TYPICAL SECTIONS  
 DATE: MARCH 8, 2013  
 SHEET 27 OF 81

STATE OF LOUISIANA  
**JONATHAN HIRD**  
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 8/12/2013

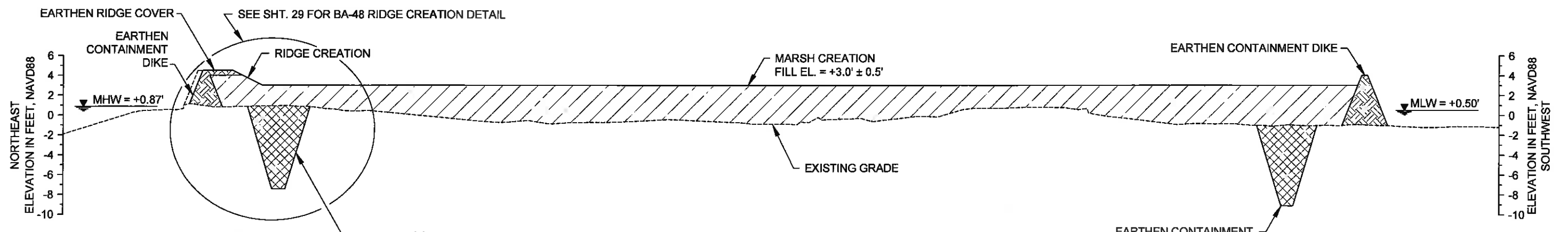
**FINAL BID SET**

DRAWN BY: YC

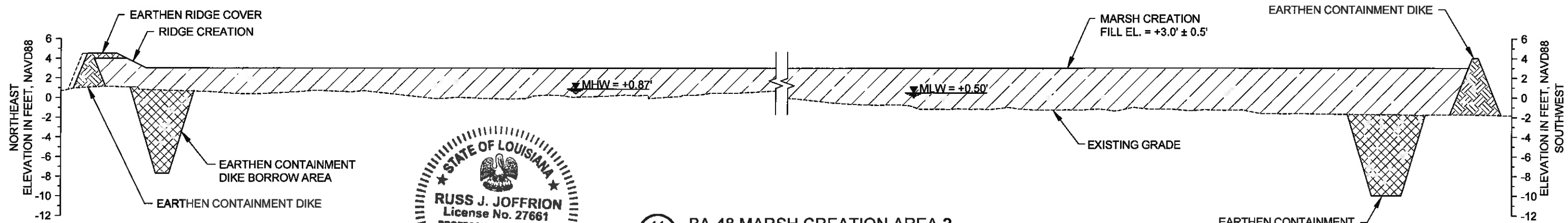
DESIGNED BY: SA



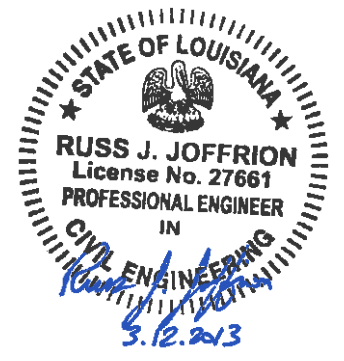
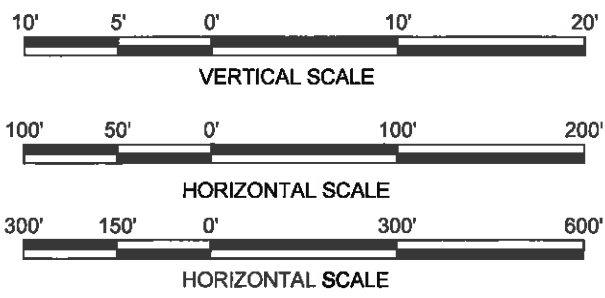
**9 BA-48 MARSH CREATION AREAS 1 & 2**  
 SCALE: HOR. 1" = 300'  
 VER. 1" = 10'



**10 BA-48 MARSH CREATION AREA 1**  
 SCALE: HOR. 1" = 100'  
 VER. 1" = 10'



**11 BA-48 MARSH CREATION AREA 2**  
 SCALE: HOR. 1" = 100'  
 VER. 1" = 10'



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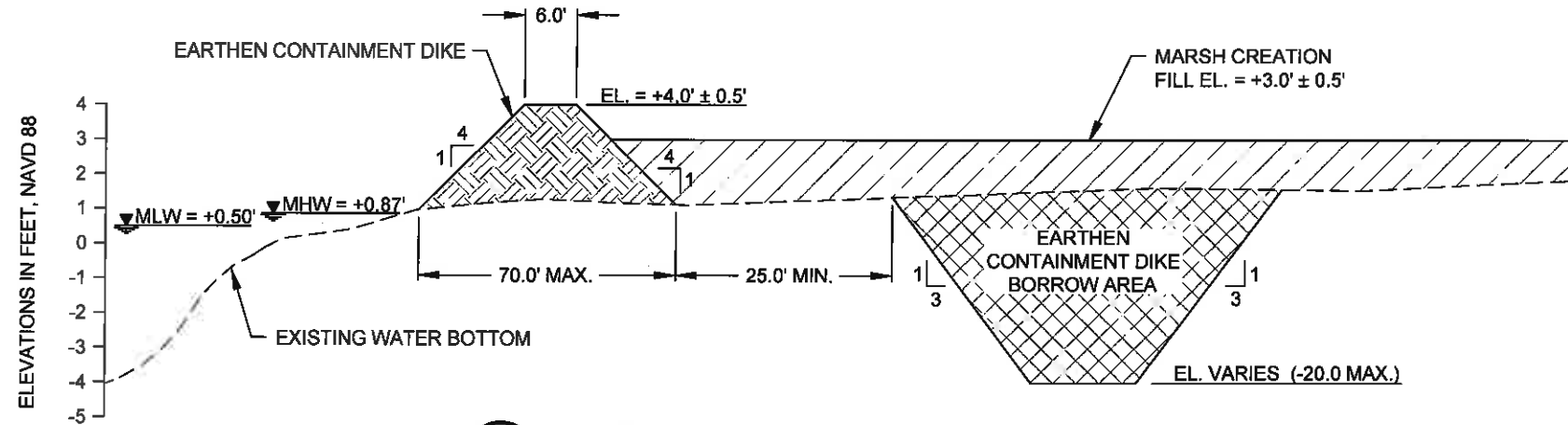
**MOFFATT & NICHOL**  
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 301 MAIN STREET, SUITE 800  
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

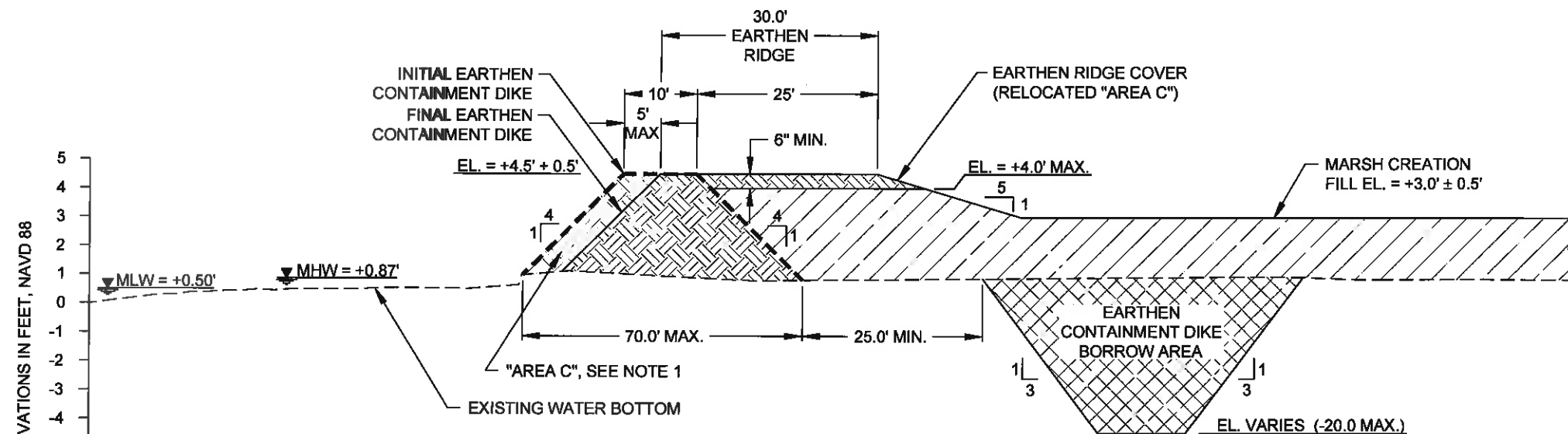
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: BA-48 MARSH CREATION AREA TYPICAL SECTIONS  
 DATE: MARCH 8, 2013  
 SHEET 28 OF 81

DRAWN BY: YC      DESIGNED BY: RJ



**12** BA-48 EARTHEN CONTAINMENT DIKE DETAIL  
15, 18, 19, 25, 30



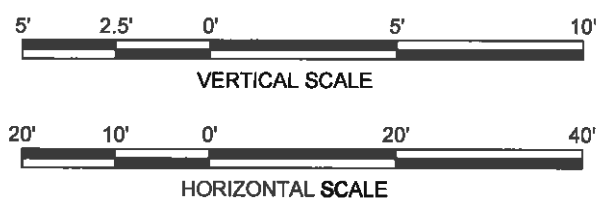
**13** BA-48 EARTHEN RIDGE CREATION DETAIL  
15, 18, 19, 30



**NOTES:**

1. THE CONTRACTOR SHALL MECHANICALLY RELOCATE "AREA C" MATERIAL TO THE LOCATION LABELED "RELOCATED AREA C" TO CREATE THE 6 INCHES MINIMUM COVER OF THE EARTHEN RIDGE.
2. MARSH FILL MATERIAL MAY BE PLACED ABOVE THE MAXIMUM TOLERANCE FOR THE CONSTRUCTION OF THE EARTHEN RIDGE TEMPLATE. THE EARTHEN RIDGE WORK SHALL BE SUBMITTED IN THE WORK PLAN. SEE TECHNICAL SPECIFICATIONS FOR EARTHEN RIDGE PLACEMENT AND PAYMENT.

**FINAL BID SET**



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

DRAWN BY: YC

DESIGNED BY: RJ

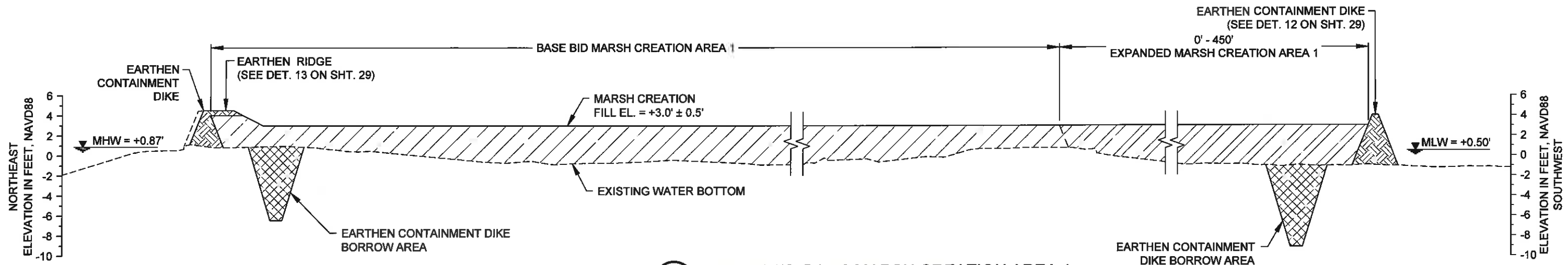
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

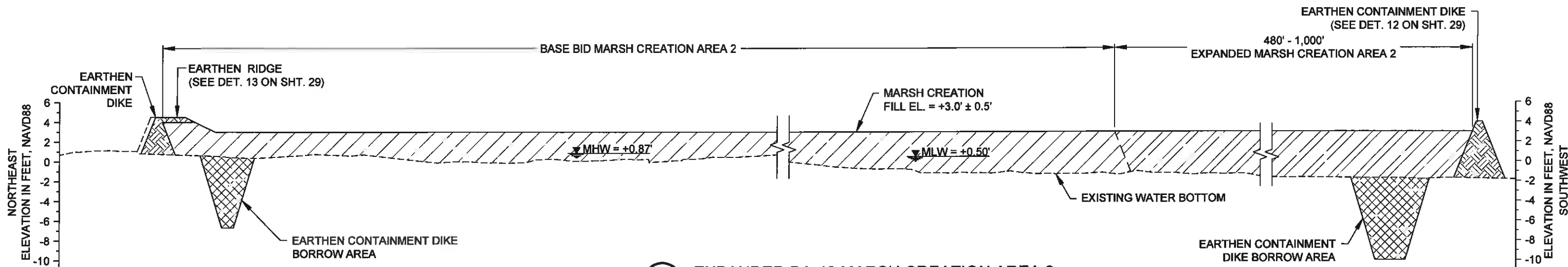
BASE BID: BA-48 CONTAINMENT DIKE AND RIDGE TYPICAL DETAILS

DATE: MARCH 8, 2013

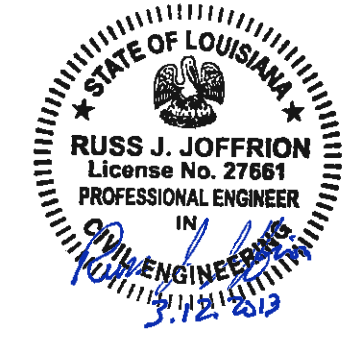
SHEET 29 OF 81



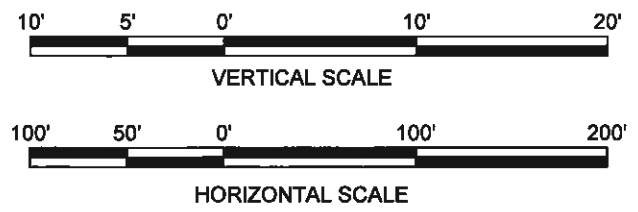
14 EXPANDED BA-48 MARSH CREATION AREA 1  
 18 SCALE: HOR. 1" = 100'  
 19 VER. 1" = 10'



15 EXPANDED BA-48 MARSH CREATION AREA 2  
 19 SCALE: HOR. 1" = 100'  
 VER. 1" = 10'



**FINAL BID SET**



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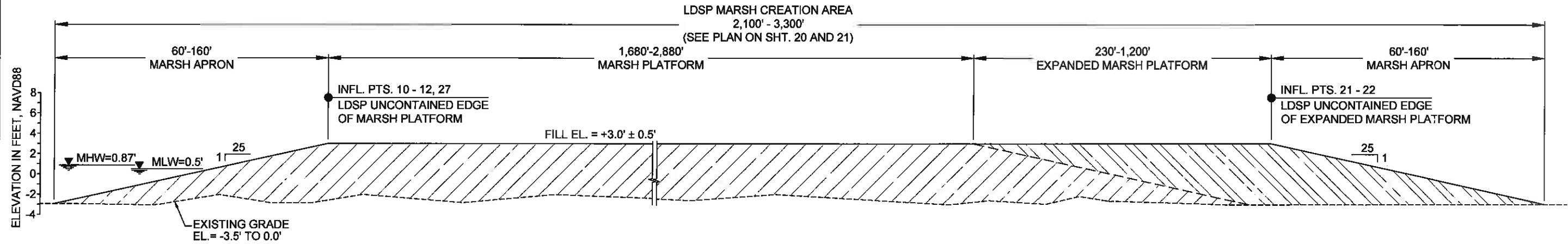
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-338-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

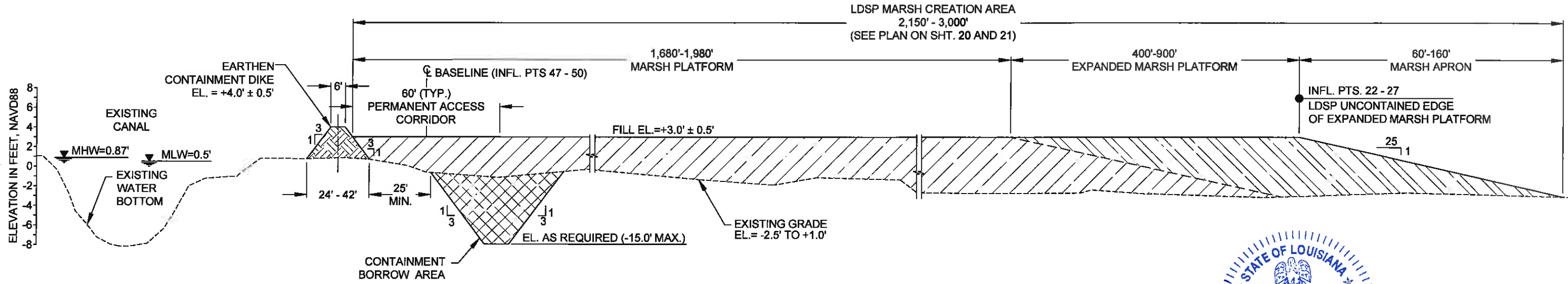
ADDITIVE ALTERNATE #1: BA-48 MARSH CREATION AREA TYPICAL SECTIONS  
 DATE: MARCH 8, 2013  
 SHEET 30 OF 81

DRAWN BY: YC      DESIGNED BY: RJ



16  
20  
21

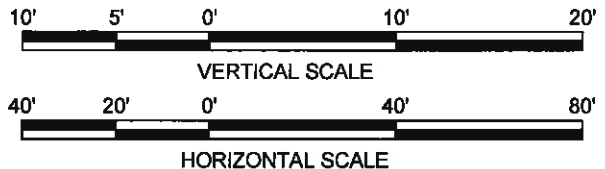
**TYPICAL FILL SECTION ACROSS LDSP EXPANDED MARSH CREATION AREA**  
(SOUTH TO NORTH)



17  
20  
21

**TYPICAL FILL SECTION ACROSS LDSP EXPANDED MARSH CREATION AREA**  
(EAST TO WEST)

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



| REV. | DATE | DESCRIPTION | BY |
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
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STATE OF LOUISIANA  
JONATHAN HIRD  
License No. 32299  
PROFESSIONAL ENGINEER  
03/12/2013

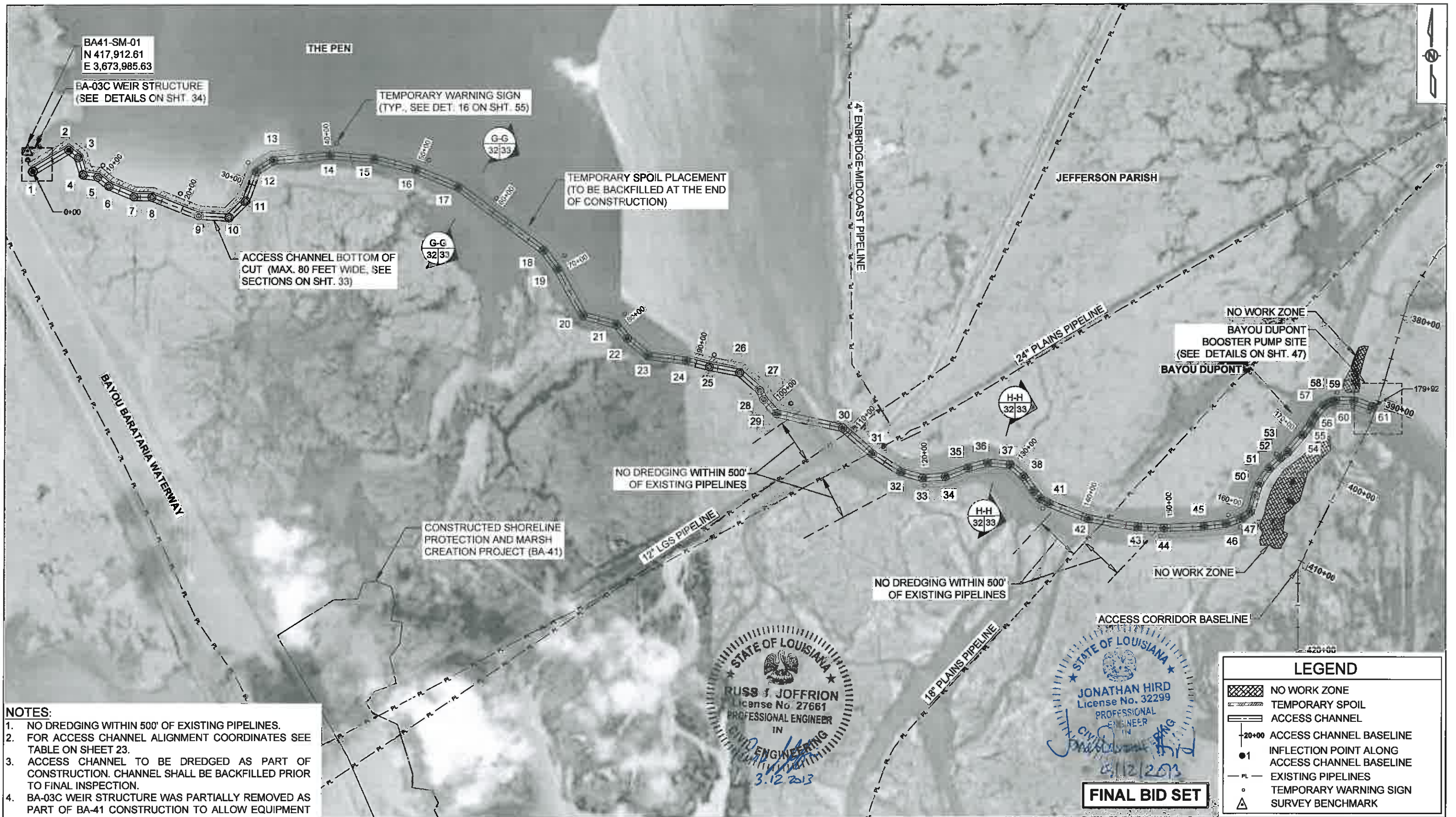
**FINAL BID SET**

DRAWN BY: YC      DESIGNED BY: SA      APPROVED BY: MAURY CHATELLIER, P.E.      SHEET 31 OF 81

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-43

ADDITIVE ALTERNATE #2:  
LDSP MARSH CREATION AREA  
TYPICAL SECTIONS

DATE: MARCH 8, 2013



- NOTES:**
1. NO DREDGING WITHIN 500' OF EXISTING PIPELINES.
  2. FOR ACCESS CHANNEL ALIGNMENT COORDINATES SEE TABLE ON SHEET 23.
  3. ACCESS CHANNEL TO BE DREDGED AS PART OF CONSTRUCTION. CHANNEL SHALL BE BACKFILLED PRIOR TO FINAL INSPECTION.
  4. BA-03C WEIR STRUCTURE WAS PARTIALLY REMOVED AS PART OF BA-41 CONSTRUCTION TO ALLOW EQUIPMENT ACCESS. CONTRACTOR SHALL RECONSTRUCT WEIR STRUCTURE TO THE LINES AND GRADES SHOWN ON SHEET 34.



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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELIER, P.E.

**ACCESS CHANNEL LAYOUT**

DATE: MARCH 8, 2013  
 SHEET 32 OF 81

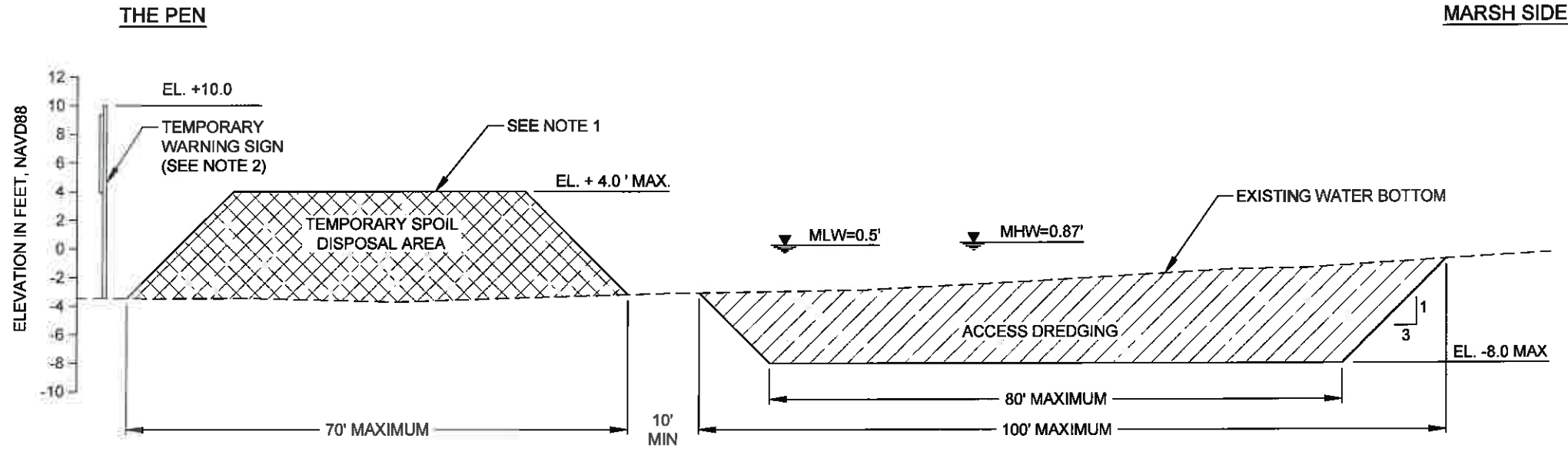
STATE OF LOUISIANA  
 RUSS J JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3.12.2013

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 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3/12/2013

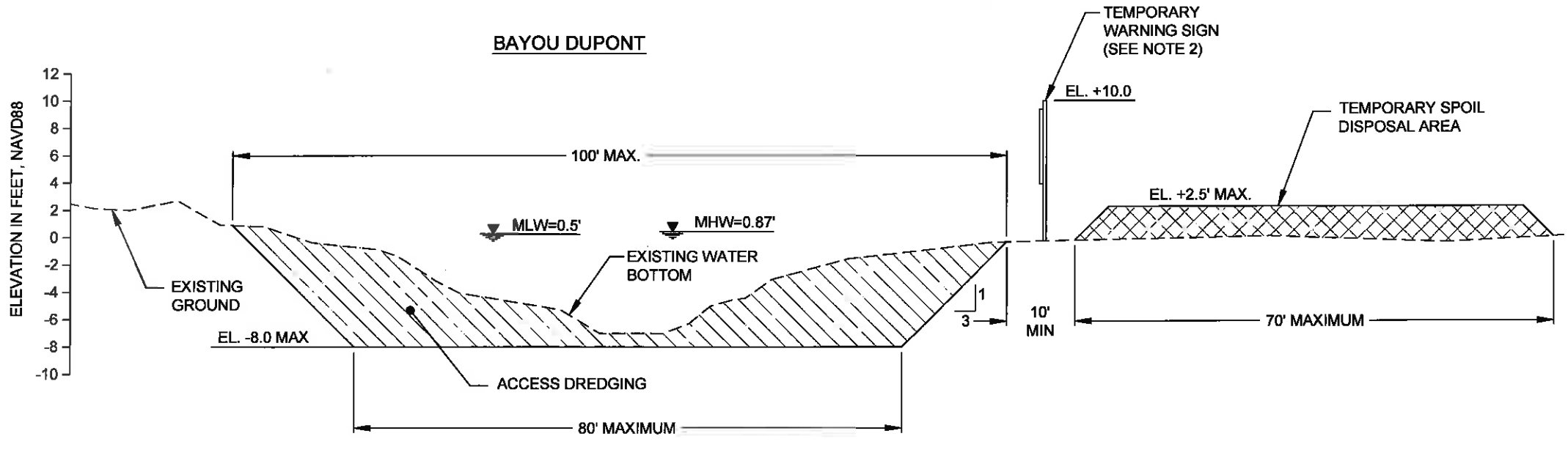
**FINAL BID SET**

| LEGEND |  |
|--------|--|
|        | NO WORK ZONE                                   |
|        | TEMPORARY SPOIL                                |
|        | ACCESS CHANNEL                                 |
|        | ACCESS CHANNEL BASELINE                        |
|        | INFLECTION POINT ALONG ACCESS CHANNEL BASELINE |
|        | EXISTING PIPELINES                             |
|        | TEMPORARY WARNING SIGN                         |
|        | SURVEY BENCHMARK                               |





**G-G**  
32 TYPICAL ACCESS CHANNEL SECTION @ THE PEN

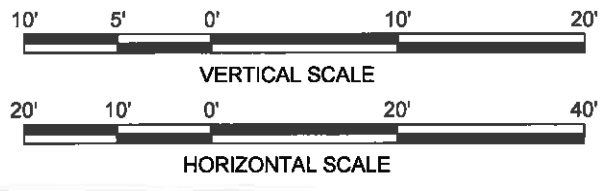


**H-H**  
32 TYPICAL ACCESS CHANNEL SECTION @ BAYOU DUPONT

- NOTES:**
1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKE SIDE AND BACKFILLED INTO THE ACCESS CHANNEL PRIOR TO FINAL INSPECTION. TEMPORARY SPOIL SHALL NOT BE PLACED ON EXISTING MARSH.
  2. TEMPORARY WARNING SIGNS SHALL BE PLACED AT A MAXIMUM SPACING OF 1,000 FT ALONG ALL TEMPORARY SPOIL DISPOSAL AREAS.
  3. ACCESS CHANNEL TO BE DREDGED AS PART OF CONSTRUCTION. CHANNEL SHALL BE BACKFILL PRIOR TO FINAL INSPECTION.



**FINAL BID SET**



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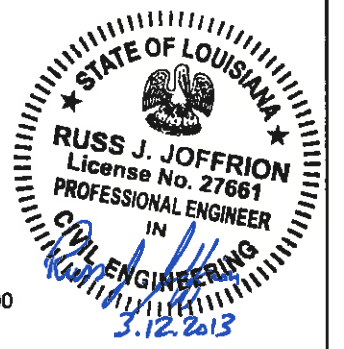
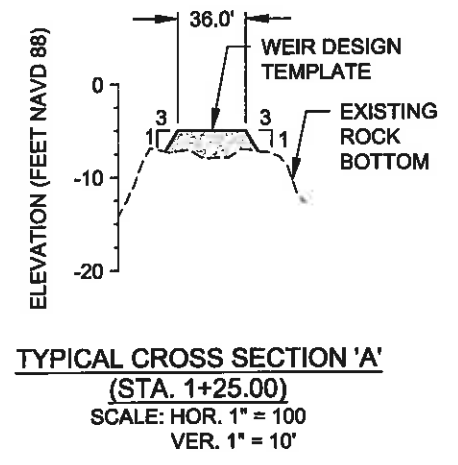
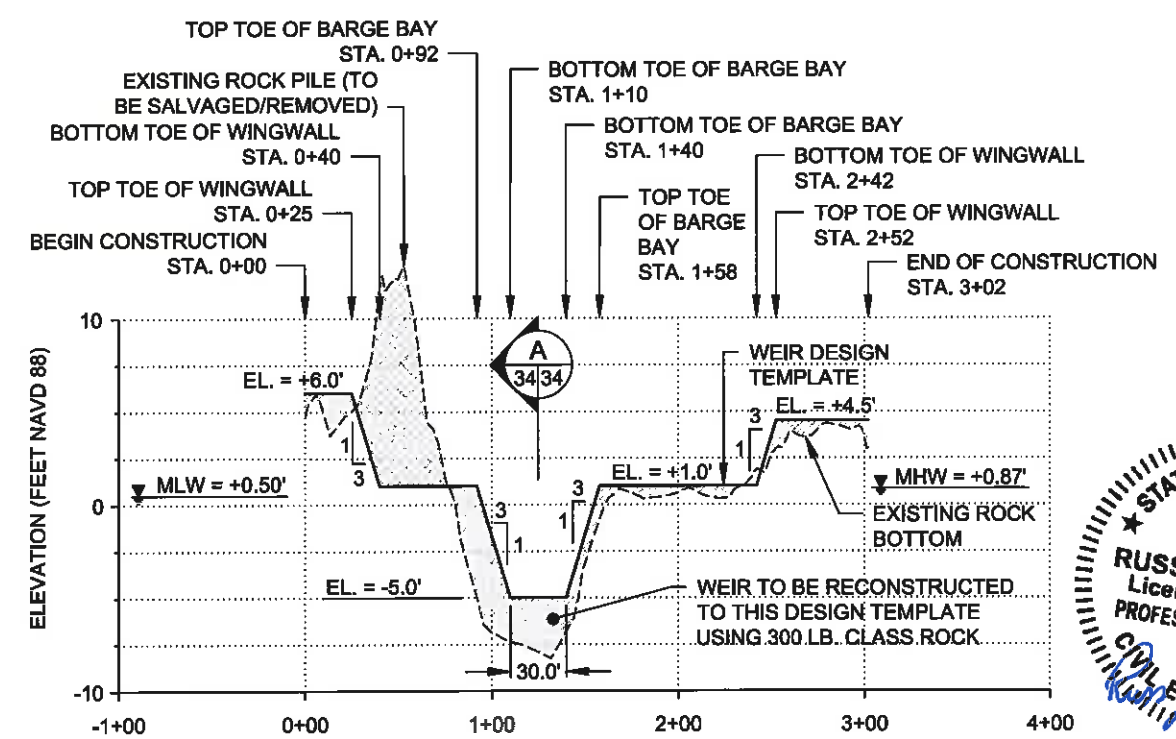
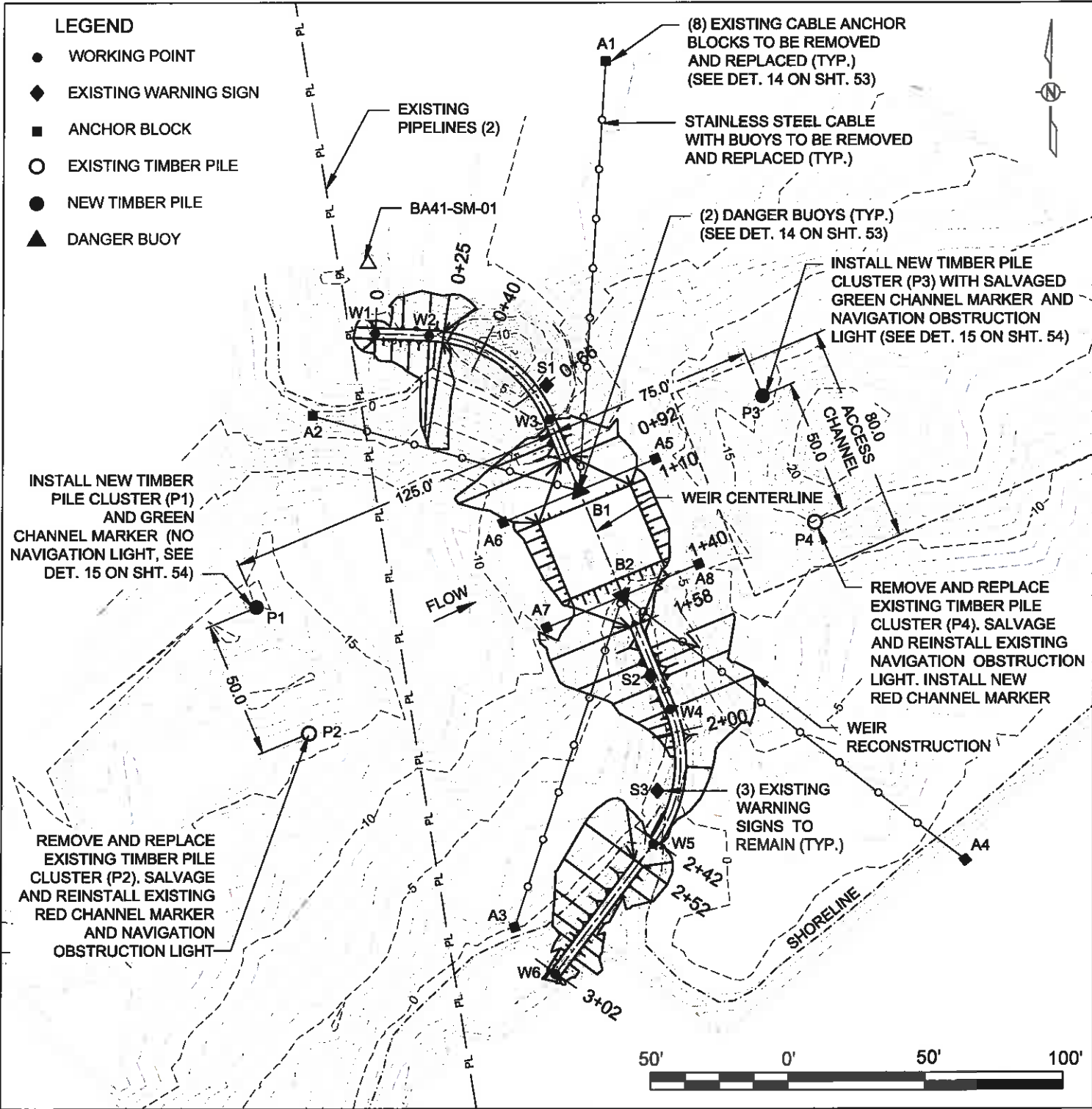
**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

TYPICAL ACCESS CHANNEL SECTIONS  
DATE: MARCH 8, 2013  
SHEET 33 OF 81

DRAWN BY: YC      DESIGNED BY: SA



| NAVIGATION SIGNS AND OBSTRUCTION LIGHTS COORDINATES |              |            |
|---|--------------|------------|
|   | EASTING      | NORTHING   |
| P1  | 3,673,944.08 | 417,788.05 |
| P2  | 3,673,963.36 | 417,741.92 |
| P3  | 3,674,128.60 | 417,865.19 |
| P4  | 3,674,147.89 | 417,819.06 |

| ANCHOR BLOCK COORDINATES |              |            |
|--------------------------|--------------|------------|
|                          | EASTING      | NORTHING   |
| A1                       | 3,674,070.89 | 417,987.48 |
| A2                       | 3,673,964.21 | 417,858.02 |
| A3                       | 3,674,038.87 | 417,671.12 |
| A4                       | 3,674,203.23 | 417,695.60 |
| A5                       | 3,674,089.51 | 417,842.12 |
| A6                       | 3,674,034.15 | 417,818.97 |
| A7                       | 3,674,050.22 | 417,780.53 |
| A8                       | 3,674,105.58 | 417,803.68 |

| WEIR CENTERLINE COORDINATES |              |            |
|-----------------------------|--------------|------------|
|                             | EASTING      | NORTHING   |
| W1                          | 3,673,987.11 | 417,888.11 |
| W2                          | 3,674,006.87 | 417,887.29 |
| W3                          | 3,674,050.93 | 417,856.62 |
| W4                          | 3,674,095.27 | 417,750.57 |
| W5                          | 3,674,089.21 | 417,701.38 |
| W6                          | 3,674,053.83 | 417,653.97 |

| NAVIGATIONAL BUOY COORDINATES |              |            |
|-------------------------------|--------------|------------|
|                               | EASTING      | NORTHING   |
| B1                            | 3,674,061.83 | 417,830.55 |
| B2                            | 3,674,077.90 | 417,792.11 |

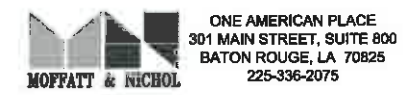
**PLAN VIEW SCALE: 1" = 50'**

**D BAYOU DUPONT WEIR STRUCTURE DETAILS AS NOTED**

**FINAL BID SET**

- NOTES:**
- CONTOURS SHOWN ARE BASED ON SIGMA SURVEY DATED DECEMBER 2011.
  - FOR TIMBER PILE CLUSTER AND NAVIGATIONAL AID DETAILS SEE SHEET 54.

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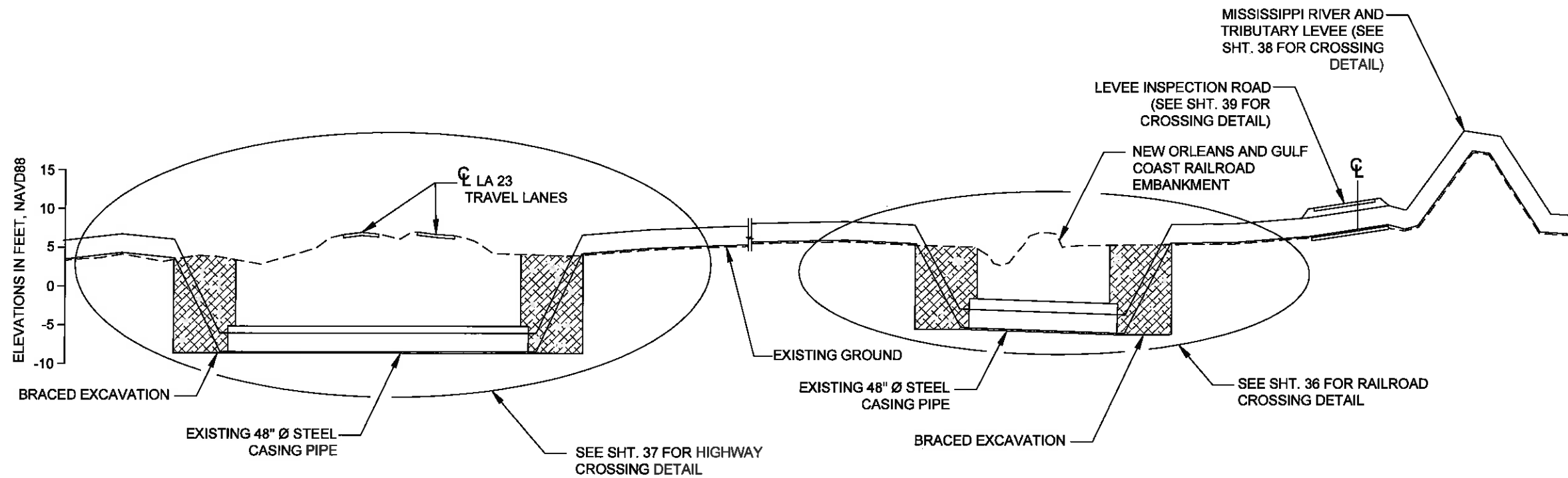


**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BAYOU DUPONT WEIR STRUCTURE  
 DATE: MARCH 8, 2013  
 SHEET 34 OF 81

DRAWN BY: YC DESIGNED BY: SA



**E-E DREDGE PIPELINE CORRIDOR SECTION**  
11

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 ★ ★ ★  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Russ J. Joffrion*  
 3.12.2013

STATE OF LOUISIANA  
 ★ ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

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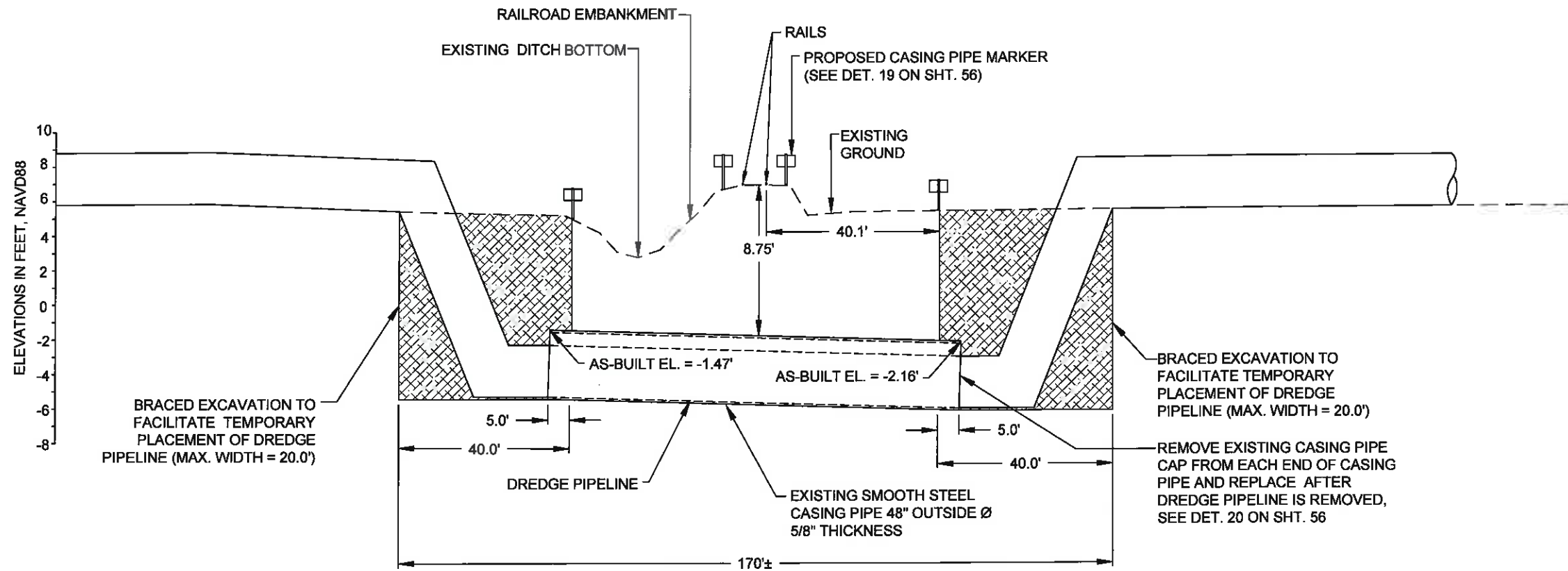
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 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-43  
 APPROVED BY: MAURY CHATELLIER, P.E.

DREDGE PIPELINE CORRIDOR SECTION  
 DATE: MARCH 8, 2013  
 SHEET 35 OF 81

DRAWN BY: YC      DESIGNED BY: SA



1 RAILROAD CROSSING DETAIL  
11  
35

**NOTES:**

1. TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE EXCAVATION ON BOTH SIDES. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
2. THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.
3. THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX L OF THE SPECIFICATIONS.



**FINAL BID SET**

| LEGEND |                   |
|--------|-------------------|
|        | BRACED EXCAVATION |
|        | EXISTING GROUND   |



| REV. | DATE | DESCRIPTION | BY |
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: SA

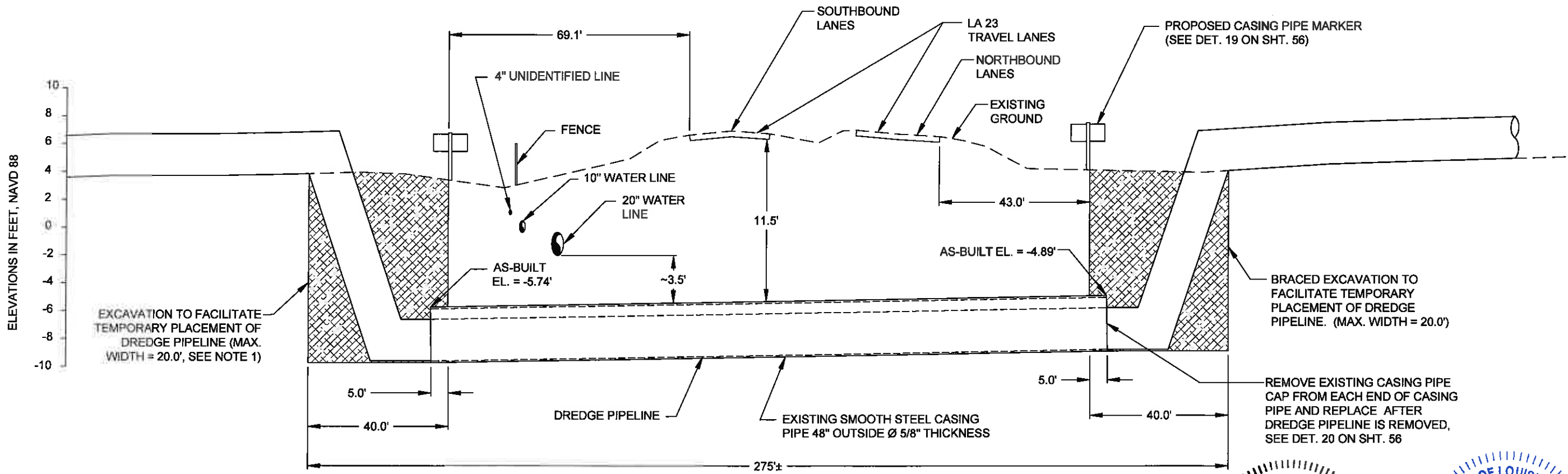
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

RAILROAD CROSSING DETAIL

DATE: MARCH 8, 2013

SHEET 36 OF 81



**2**  
**11**  
**HIGHWAY CROSSING DETAIL**

STATE OF LOUISIANA  
 RUSSELL JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 3.12.2013

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 Jonathan Hird  
 03/12/2013

- NOTES:**
- TEMPORARY SPOIL SHALL BE PLACED ADJACENT TO THE EXCAVATION ON BOTH SIDES WITHIN CONSTRUCTION LIMITS. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
  - THE TEMPORARY SPOIL SHALL BE BACKFILLED INTO EXCAVATION AFTER COMPLETION OF CONSTRUCTION.
  - THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX L OF THE SPECIFICATIONS.

**FINAL BID SET**

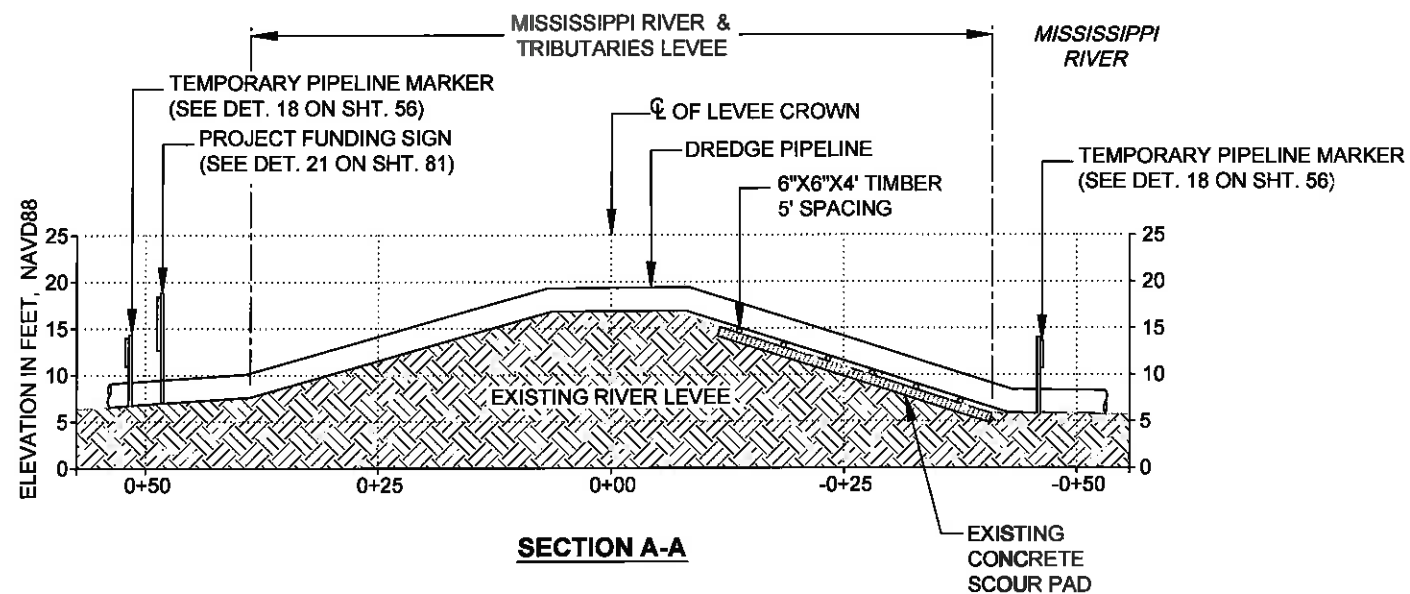
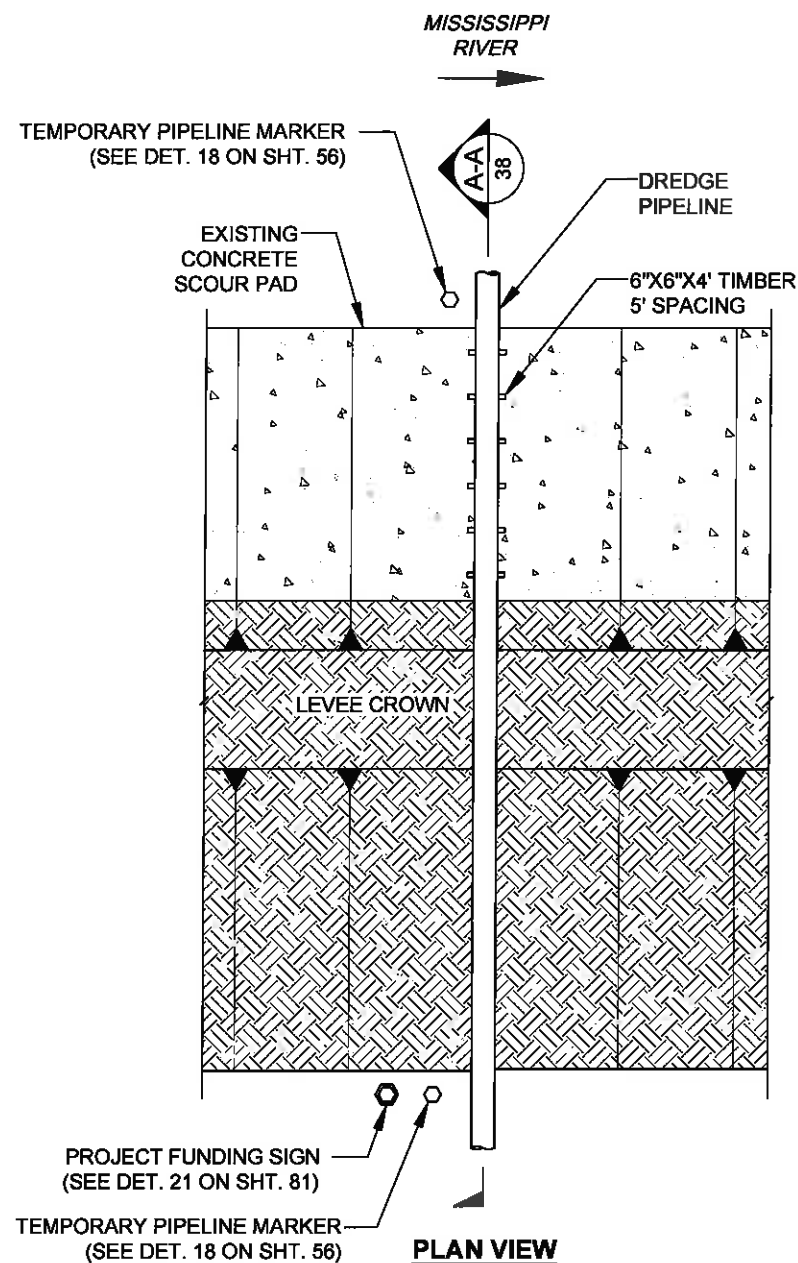
| LEGEND |                   |
|--------|-------------------|
|        | BRACED EXCAVATION |
|        | EXISTING GROUND   |



| REV. | DATE | DESCRIPTION | BY |
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 225-336-2075

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| <b>COASTAL PROTECTION AND RESTORATION AUTHORITY</b><br>450 LAUREL STREET<br>BATON ROUGE, LOUISIANA 70801 |                 | MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION<br>STATE PROJECT NUMBER: BA-43 (EB) AND BA-48 | HIGHWAY CROSSING DETAIL<br>DATE: MARCH 8, 2013 |
| DRAWN BY: YC   | DESIGNED BY: SA | APPROVED BY: MAURY CHATELLIER, P.E.  | SHEET 37 OF 81                                 |



- NOTES:
1. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR DREDGE PIPELINE. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
  2. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.

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



**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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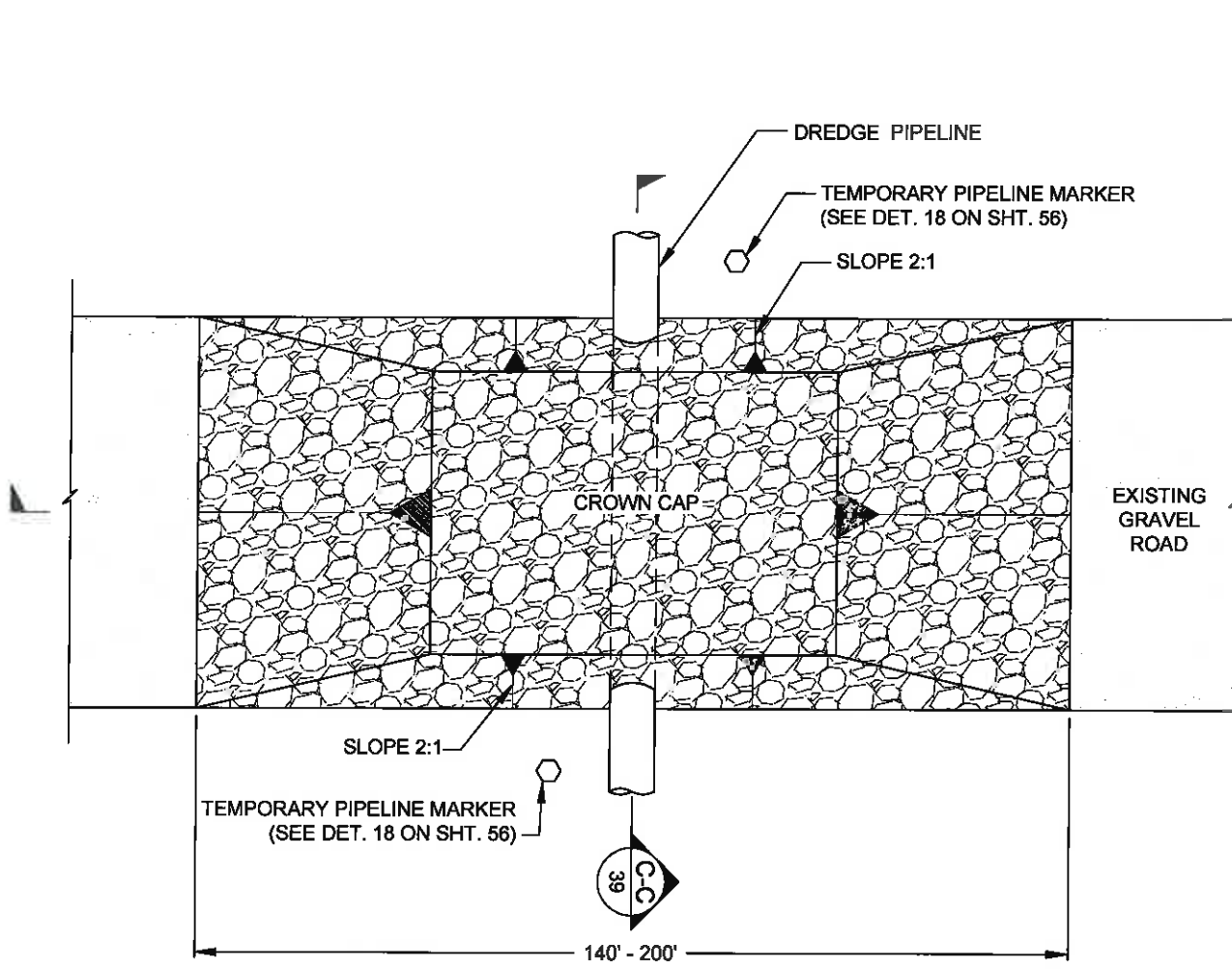
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 600  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
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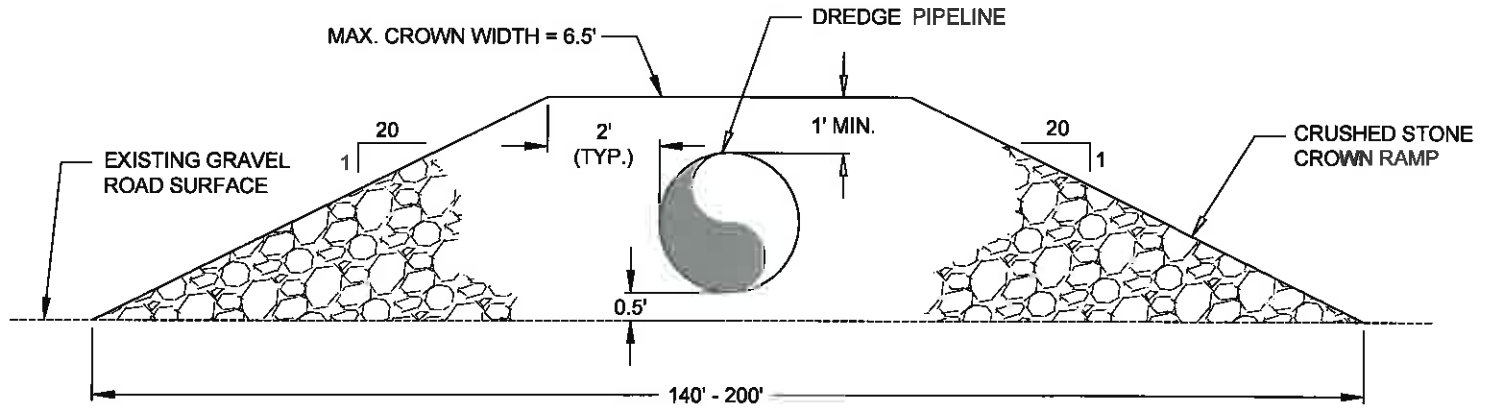
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER LEVEE CROSSING DETAIL  
 DATE: MARCH 8, 2013  
 SHEET 38 OF 81

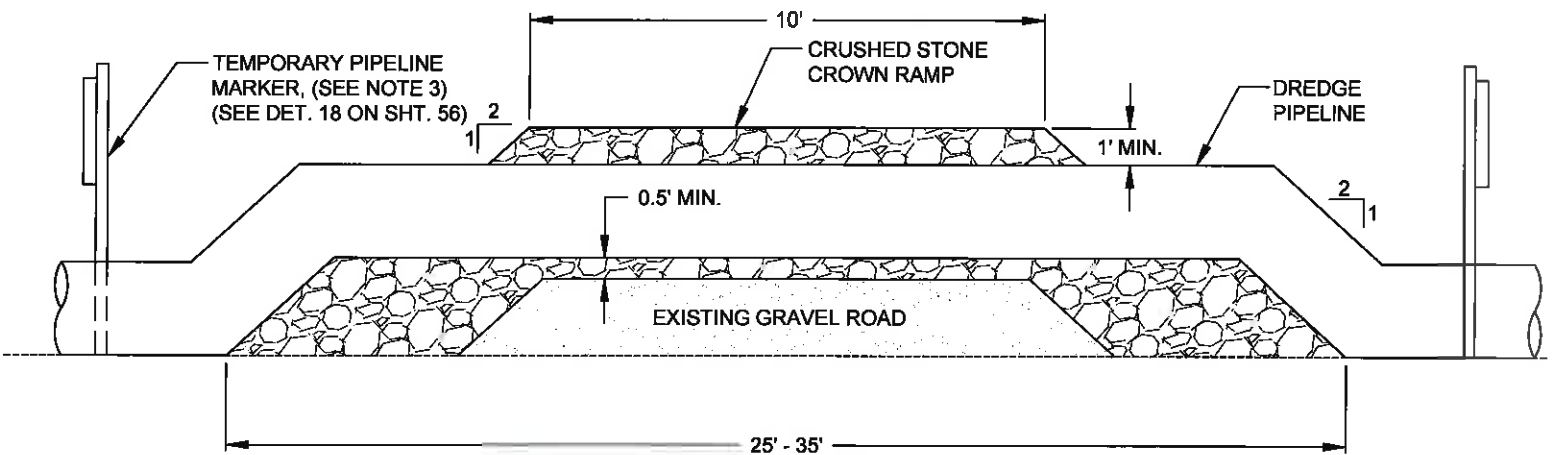
DRAWN BY: YC      DESIGNED BY: SA



**PLAN VIEW**



**SECTION B-B**



**SECTION C-C**

- NOTES:**
- MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
  - 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 LA DOTD 2006 SPECIFICATION 1003.04 (a).
  - TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR DREDGE PIPELINE LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.

**4 MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL**  
 11 NOT TO SCALE



**FINAL BID SET**

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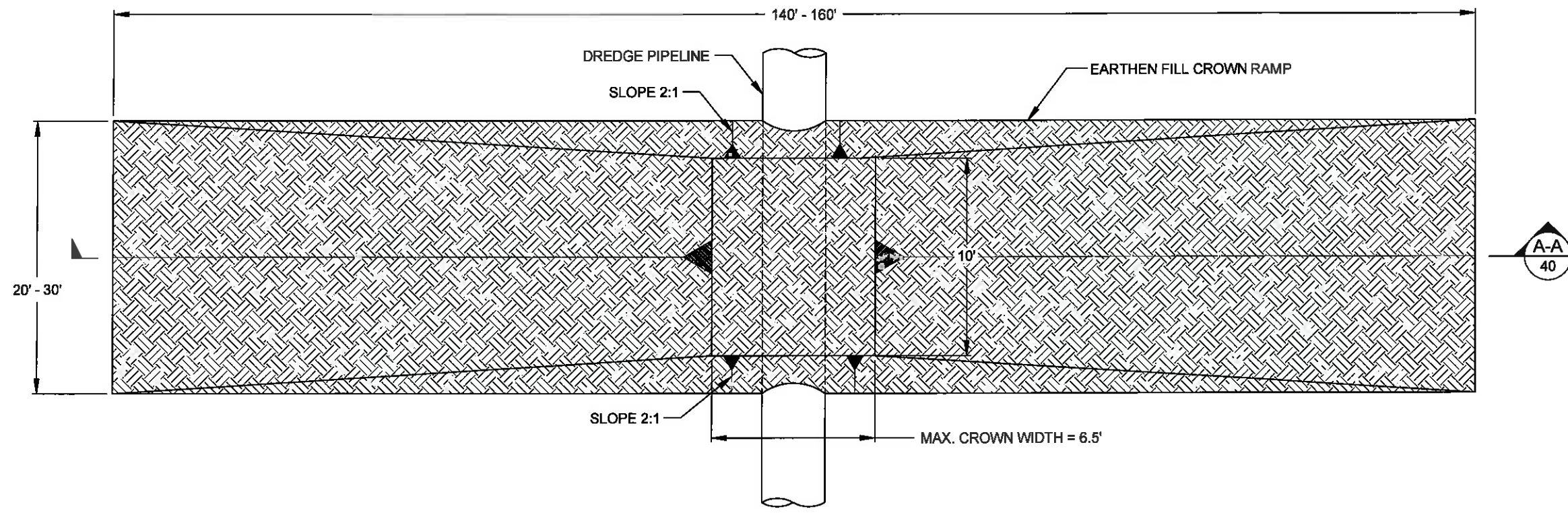
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

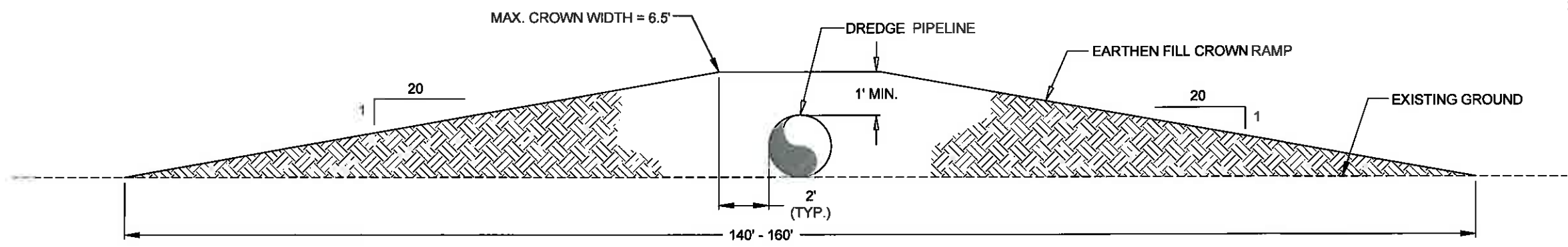
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-43  
 APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL  
 DATE: MARCH 8, 2013  
 SHEET 39 OF 81

DRAWN BY: YC      DESIGNED BY: SA



PLAN VIEW



SECTION A-A

5 CATTLE CROSSING DETAIL  
10 NOT TO SCALE

STATE OF LOUISIANA  
 ★ ★  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Russ J. Joffrion*  
 3.12.2013

STATE OF LOUISIANA  
 ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 3/12/2013

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 ONE AMERICAN PLACE  
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 BATON ROUGE, LA 70825  
 225-339-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

CATTLE CROSSING DETAIL

DRAWN BY: YC

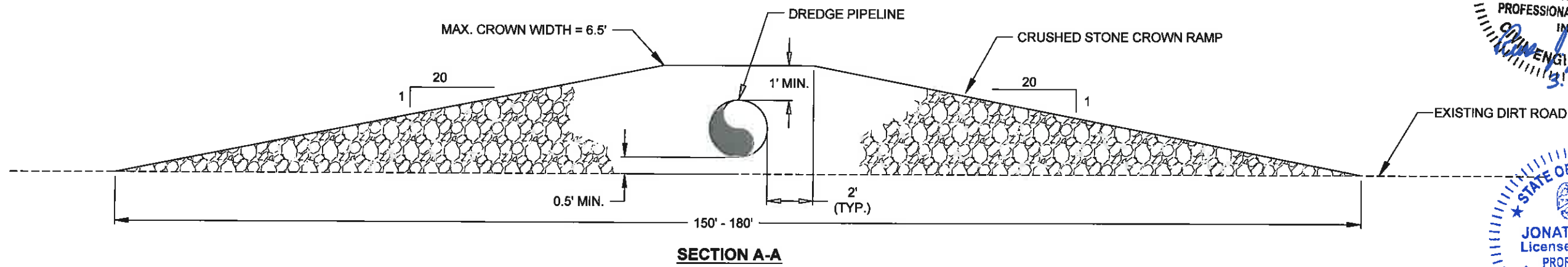
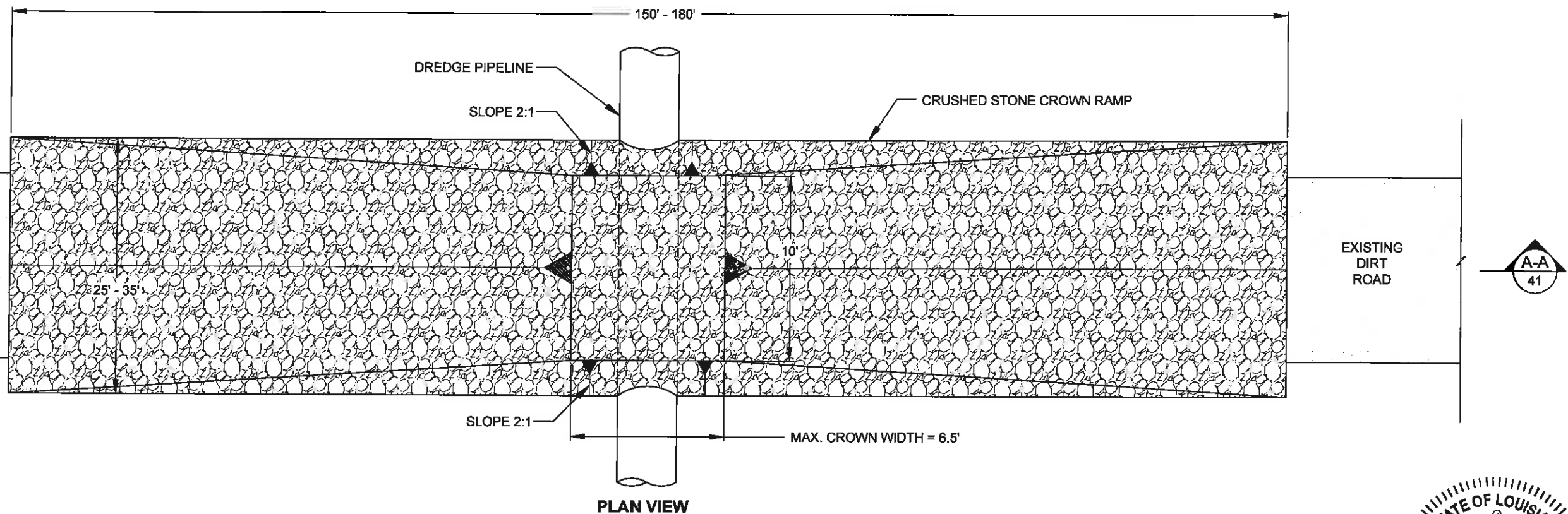
DESIGNED BY: SA

APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013

SHEET 40 OF 81





**6**  
10 **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 LA DOTD 2006 SPECIFICATION 1003.04 (a).

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CIVIL ENGINEERING  
Jonathan Hird  
03/12/2013

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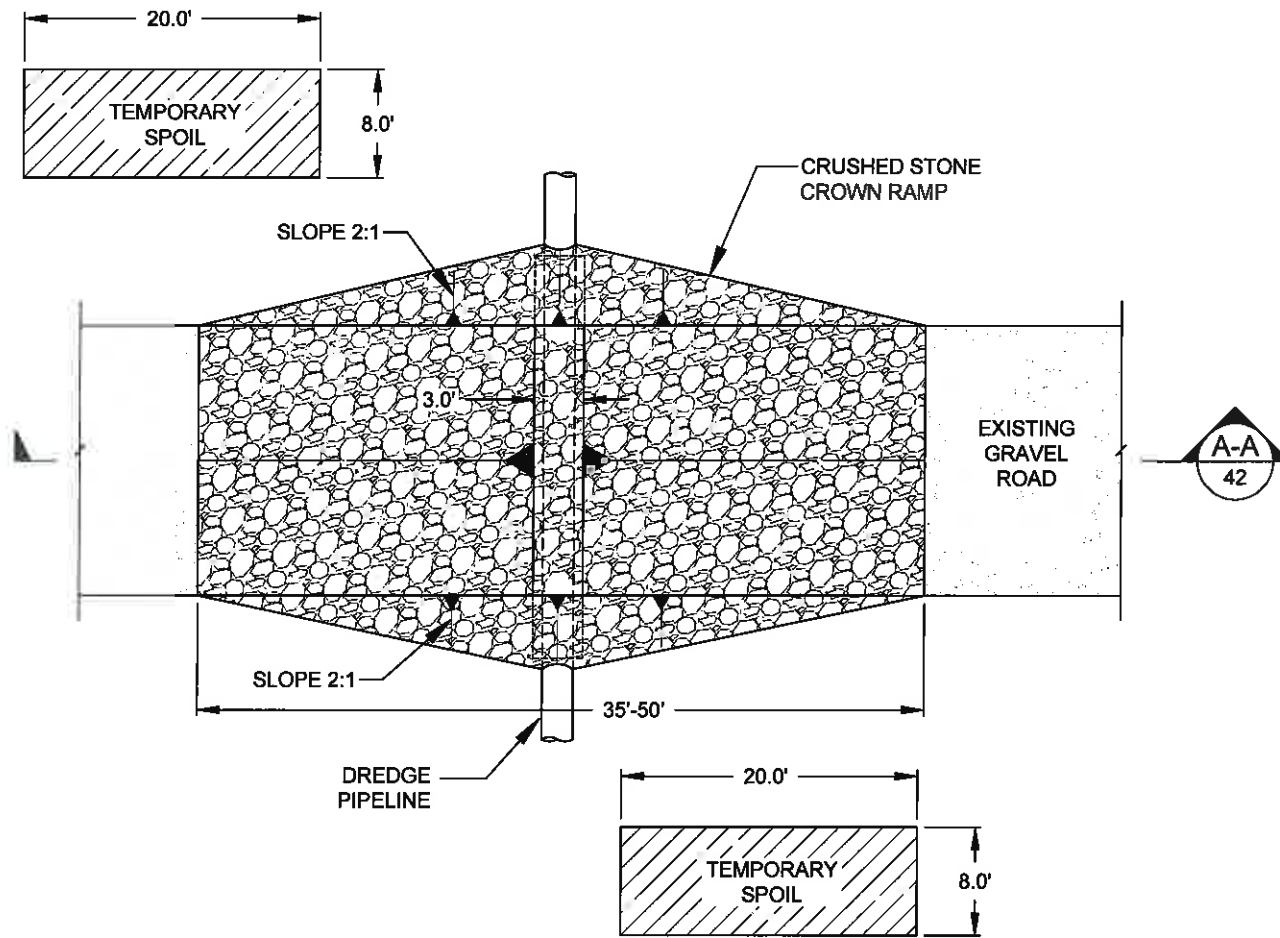
**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

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

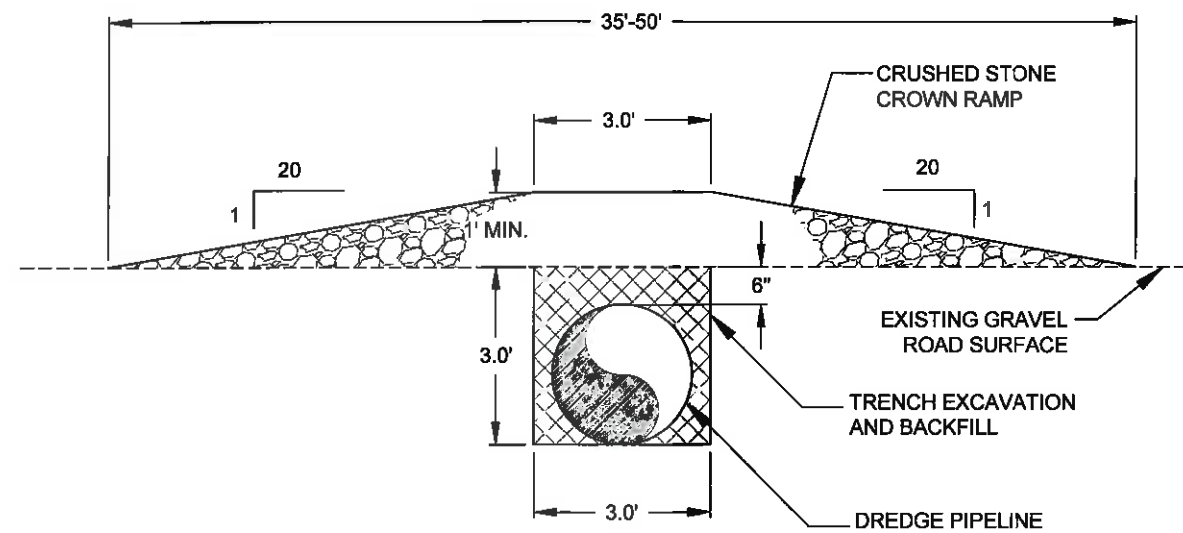
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

DIRT ROAD CROSSING DETAIL  
DATE: MARCH 8, 2013  
SHEET 41 OF 81

DRAWN BY: YC      DESIGNED BY: SA



**PLAN VIEW**



**SECTION A-A**

**7** **GRAVEL ROAD CROSSING DETAIL**  
**10** 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 LA DOTD 2006 SPECIFICATION 1003.04 (a).



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**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
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DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

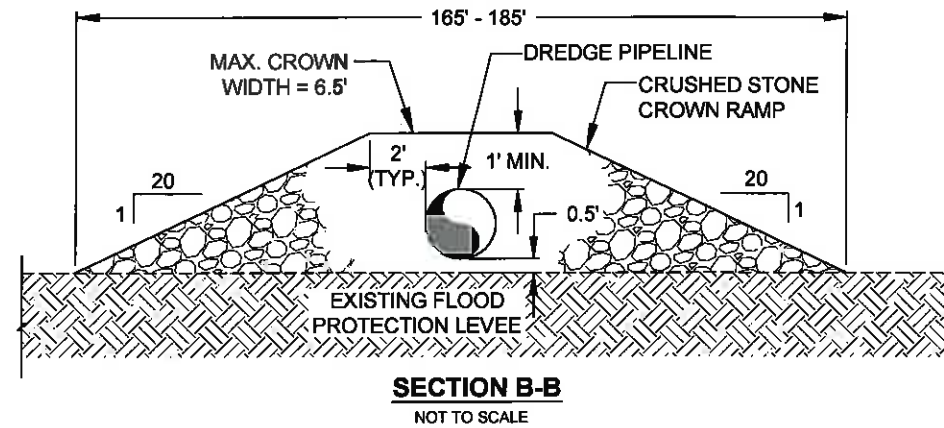
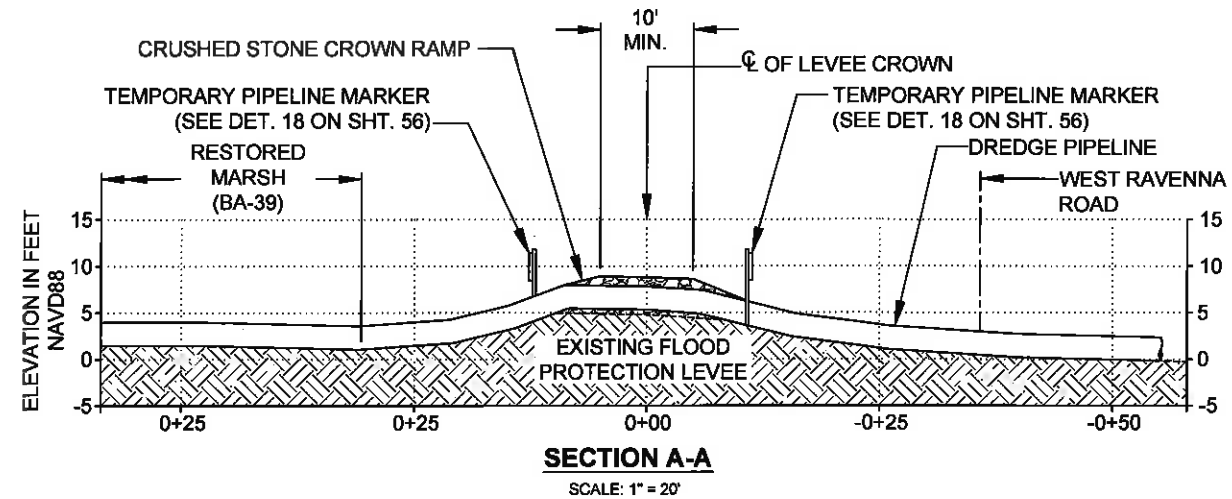
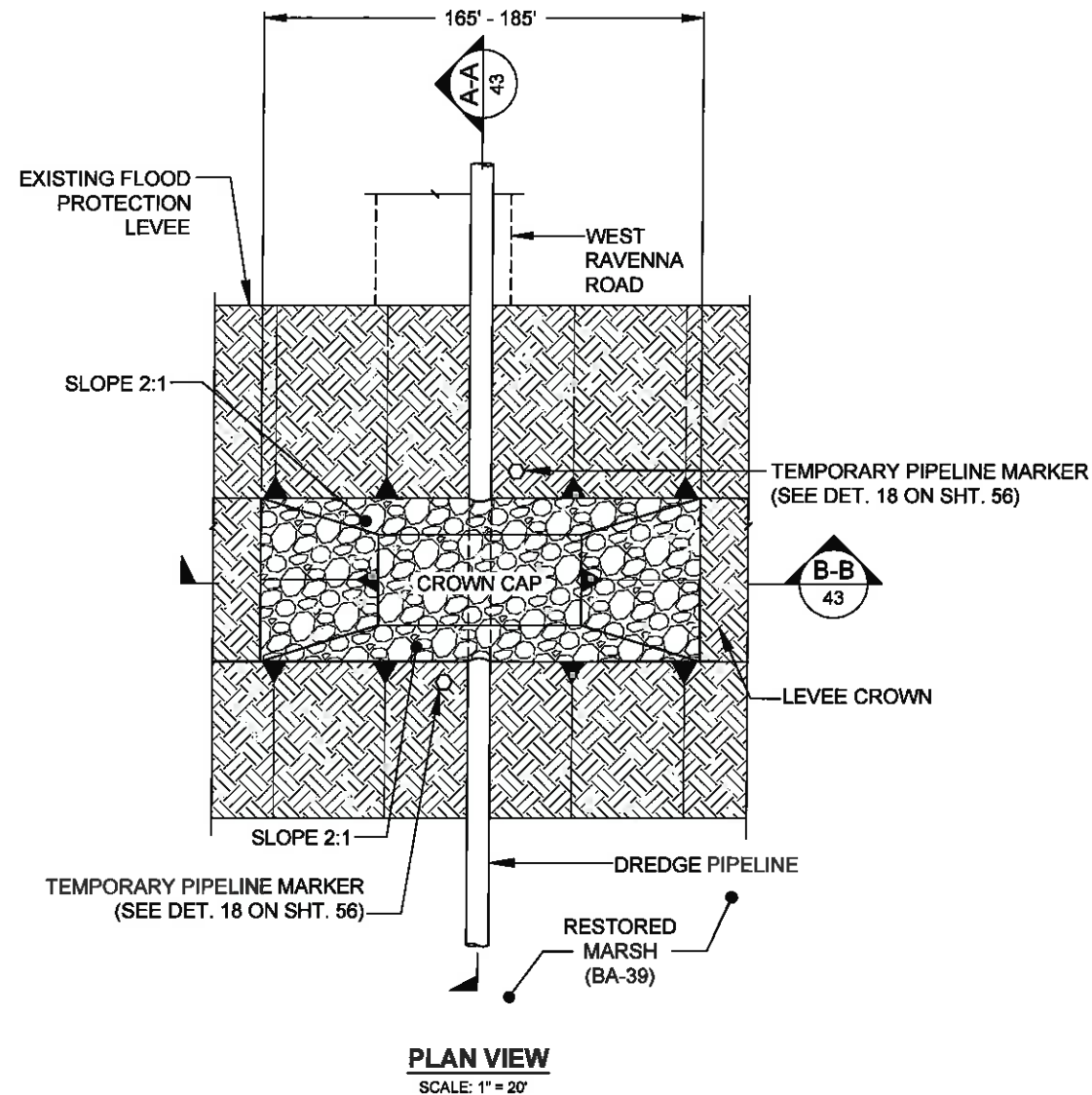
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

GRAVEL ROAD CROSSING DETAIL

DATE: MARCH 8, 2013

SHEET 42 OF 81



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 LA 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. LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.
3. EXISTING GRADE BASED ON JANUARY 2012 TBS SURVEY.



**8** FLOOD PROTECTION LEVEE CROSSING DETAIL  
12 NOT TO SCALE

**FINAL BID SET**

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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

FLOOD PROTECTION LEVEE CROSSING DETAIL

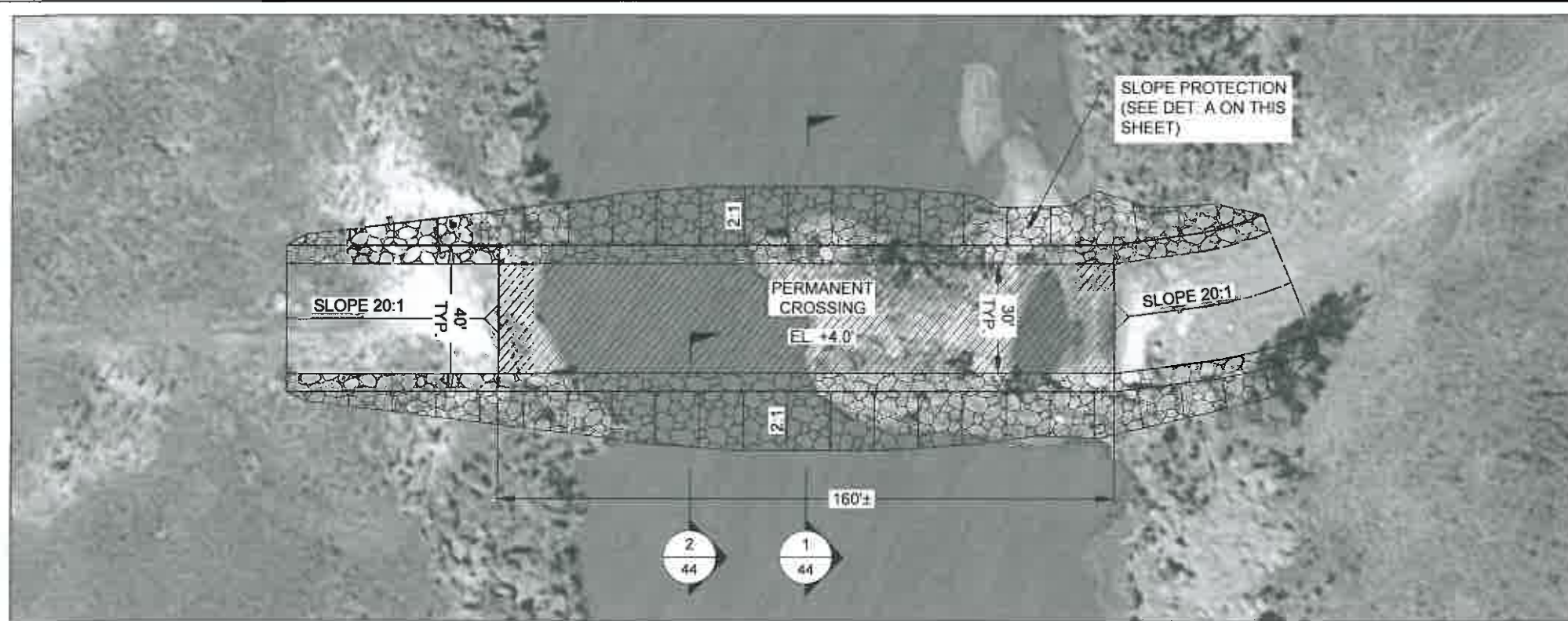
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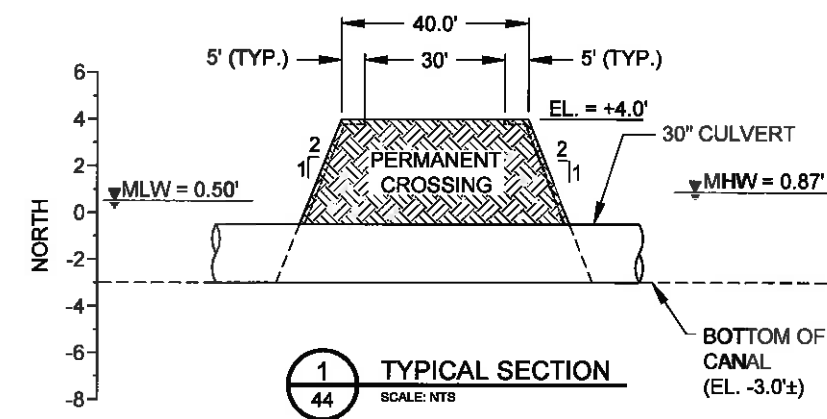
APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013

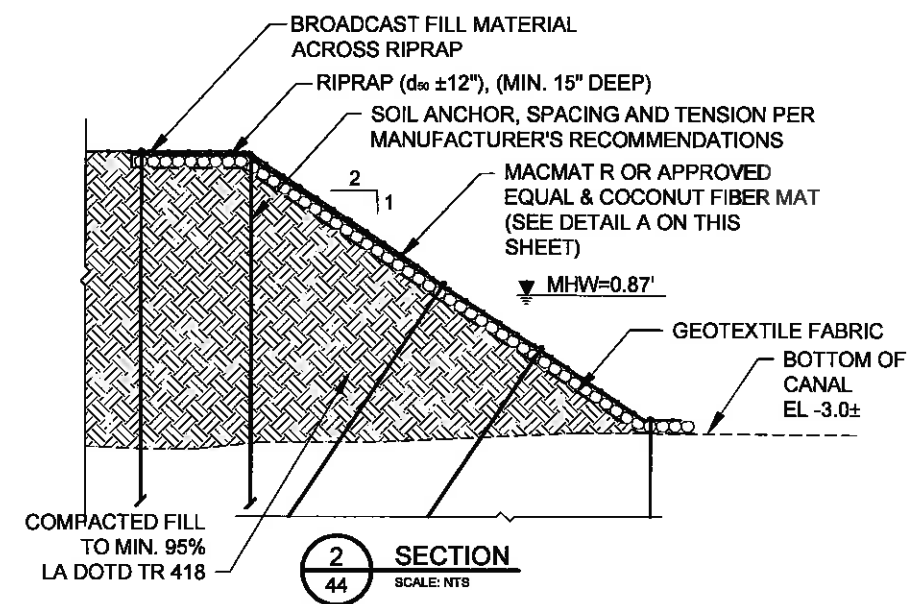
SHEET 43 OF 81



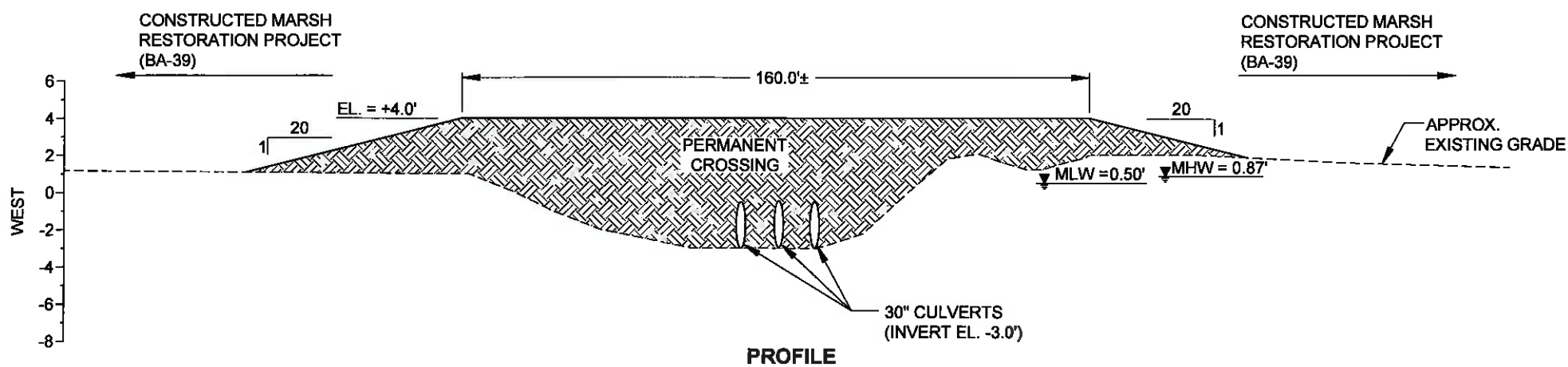
**PLAN**



**1 TYPICAL SECTION**  
SCALE: NTS

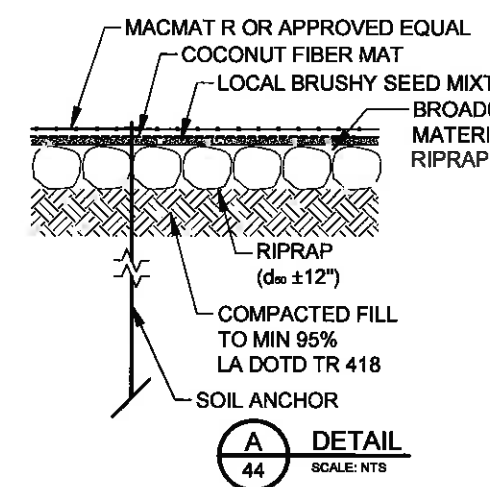


**2 SECTION**  
SCALE: NTS



**PROFILE**

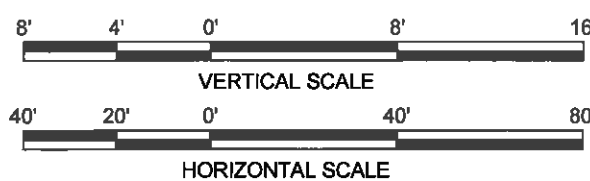
**9 PERMANENT CANAL CROSSING DETAIL**  
SCALE: HOR. 1" = 40'  
VER. 1" = 8'



**A DETAIL**  
SCALE: NTS

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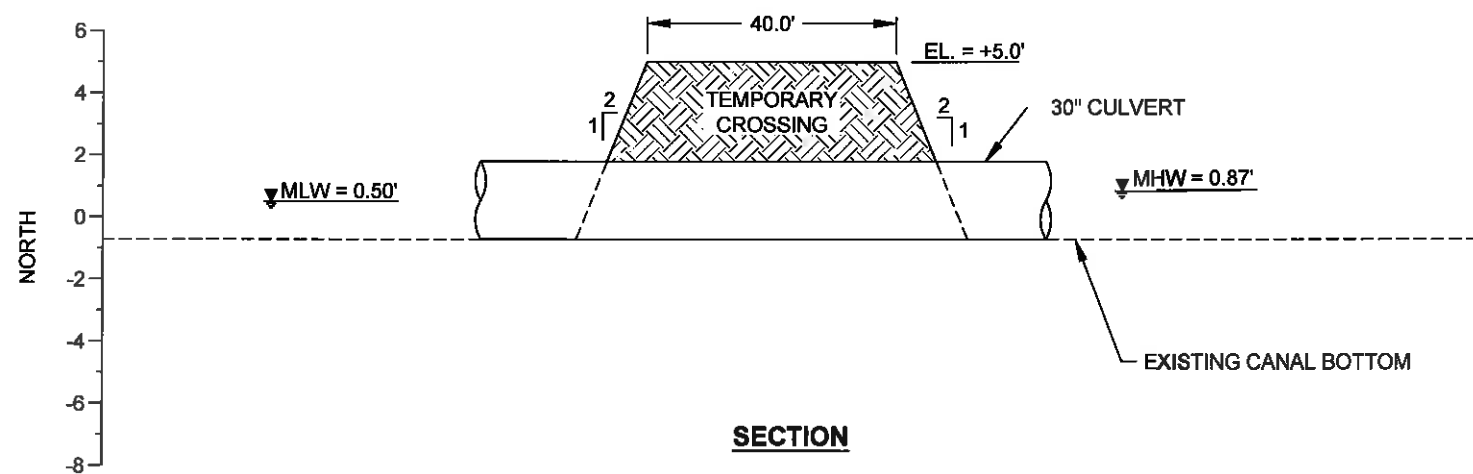
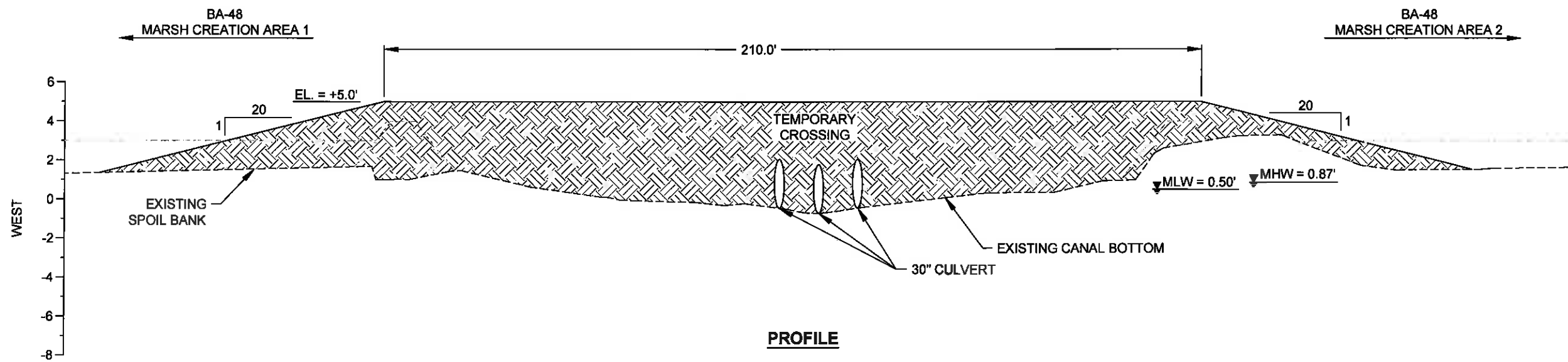
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

PERMANENT CANAL CROSSING DETAIL  
 DATE: MARCH 8, 2013  
 SHEET 44 OF 81

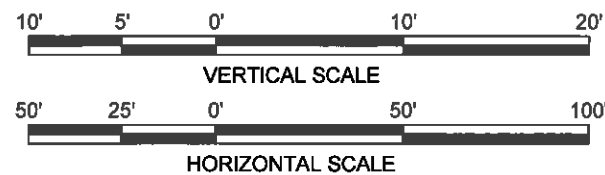
DRAWN BY: YC      DESIGNED BY: SA



10  
15  
19

**TEMPORARY CANAL CROSSING DETAIL**  
SCALE: HOR. 1" = 50'  
VER. 1" = 10'

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



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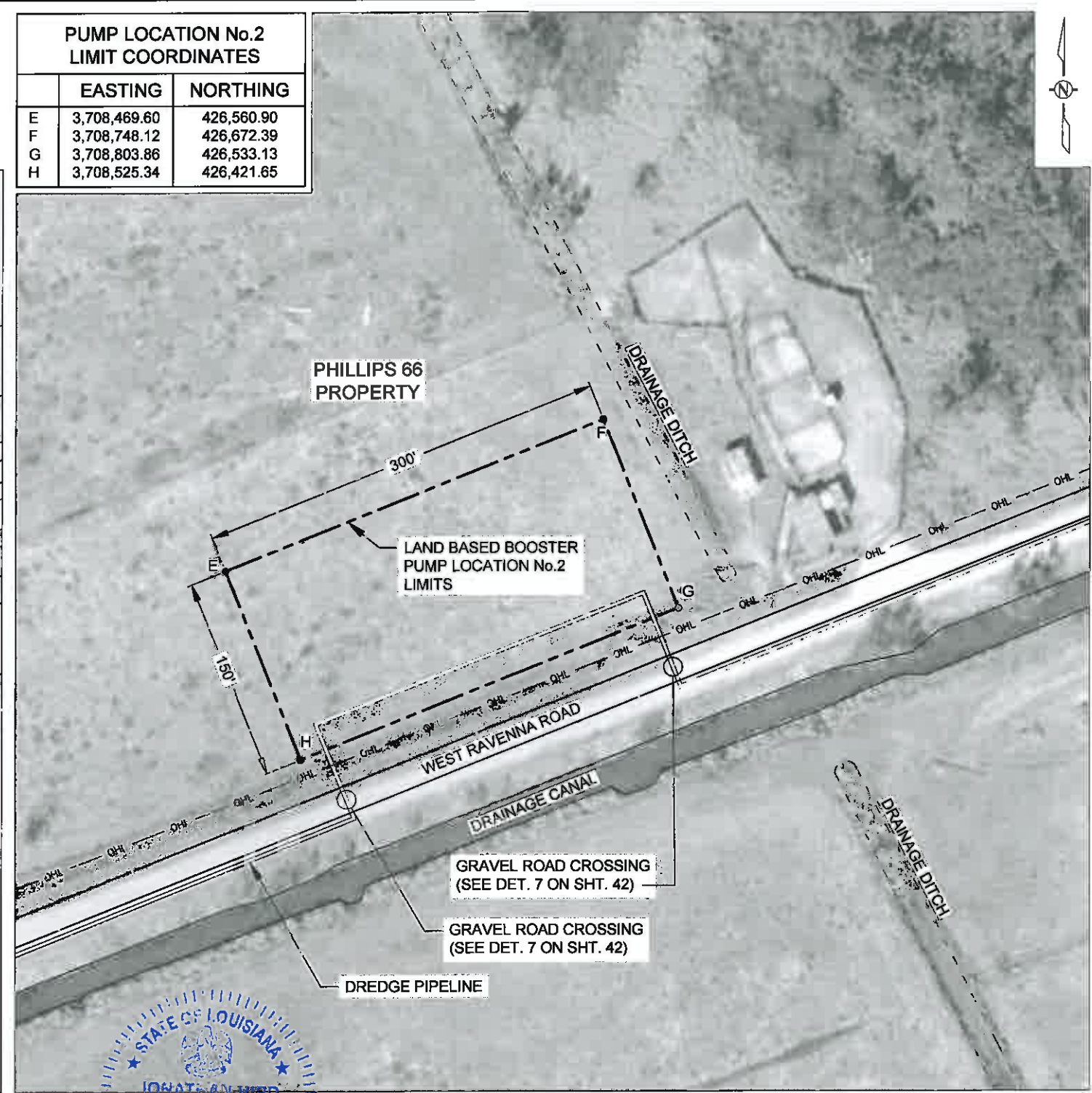
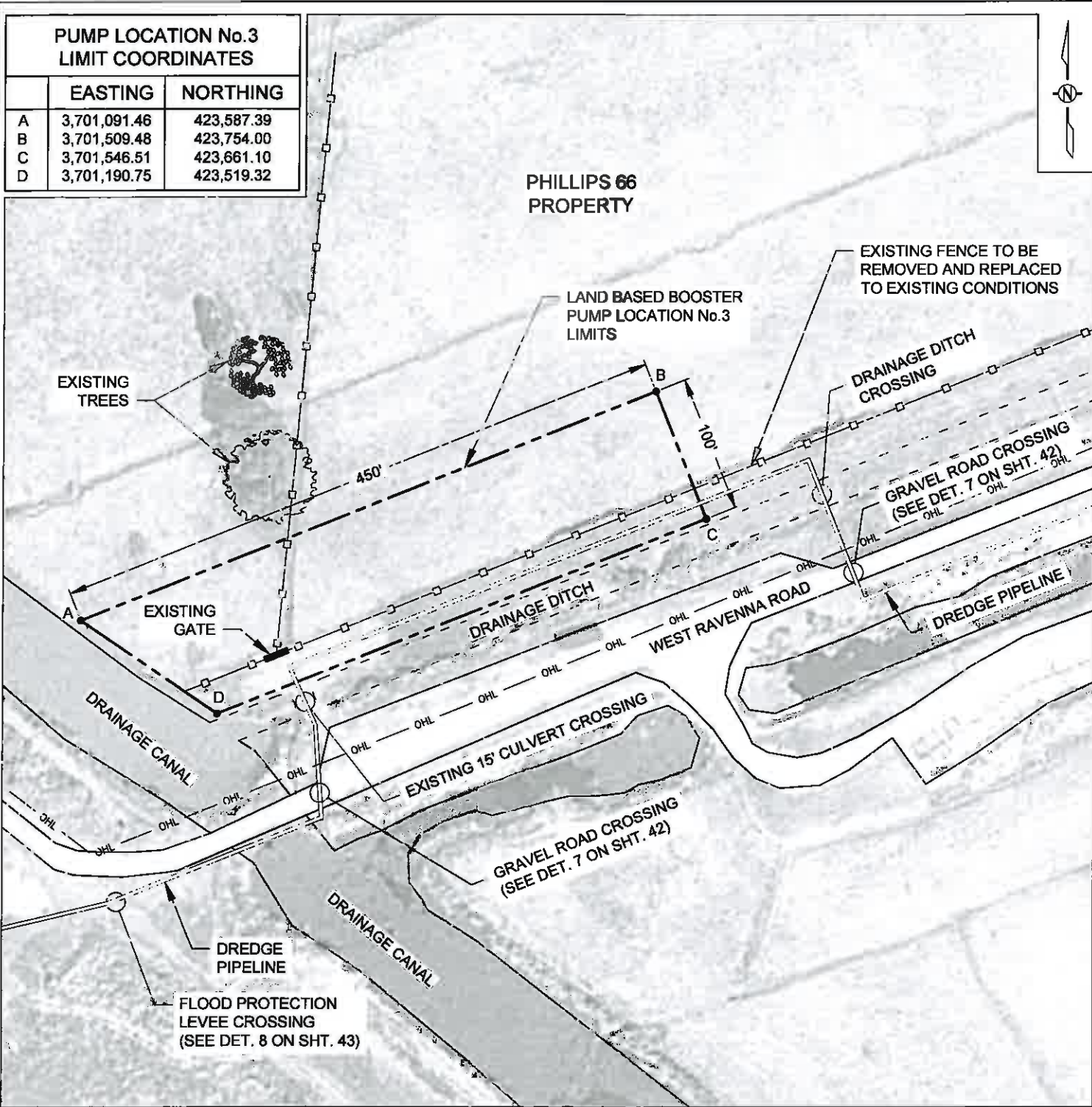
STATE OF LOUISIANA  
★ ★ ★  
RUSS J. JOFFRION  
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PROFESSIONAL ENGINEER  
IN  
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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
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TEMPORARY CANAL CROSSING DETAIL  
DATE: MARCH 8, 2013  
SHEET 45 OF 81



- NOTES:**
- EXISTING DRAINAGE MUST NOT BE IMPEDED.
  - THE LAND BASED BOOSTER LOCATION SHALL BE SUBMITTED IN THE CONTRACTOR'S WORK PLAN FOR APPROVAL.
  - OVERHEAD POWER LINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY POWER LINE LOCATION(S) PRIOR TO BEGINNING CONSTRUCTION.

**11** PUMP LOCATION No.3 DETAIL  
SCALE: 1" = 60'

**12** PUMP LOCATION No. 2 DETAIL  
SCALE: 1" = 60'



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*J. Hird*  
3/12/2013

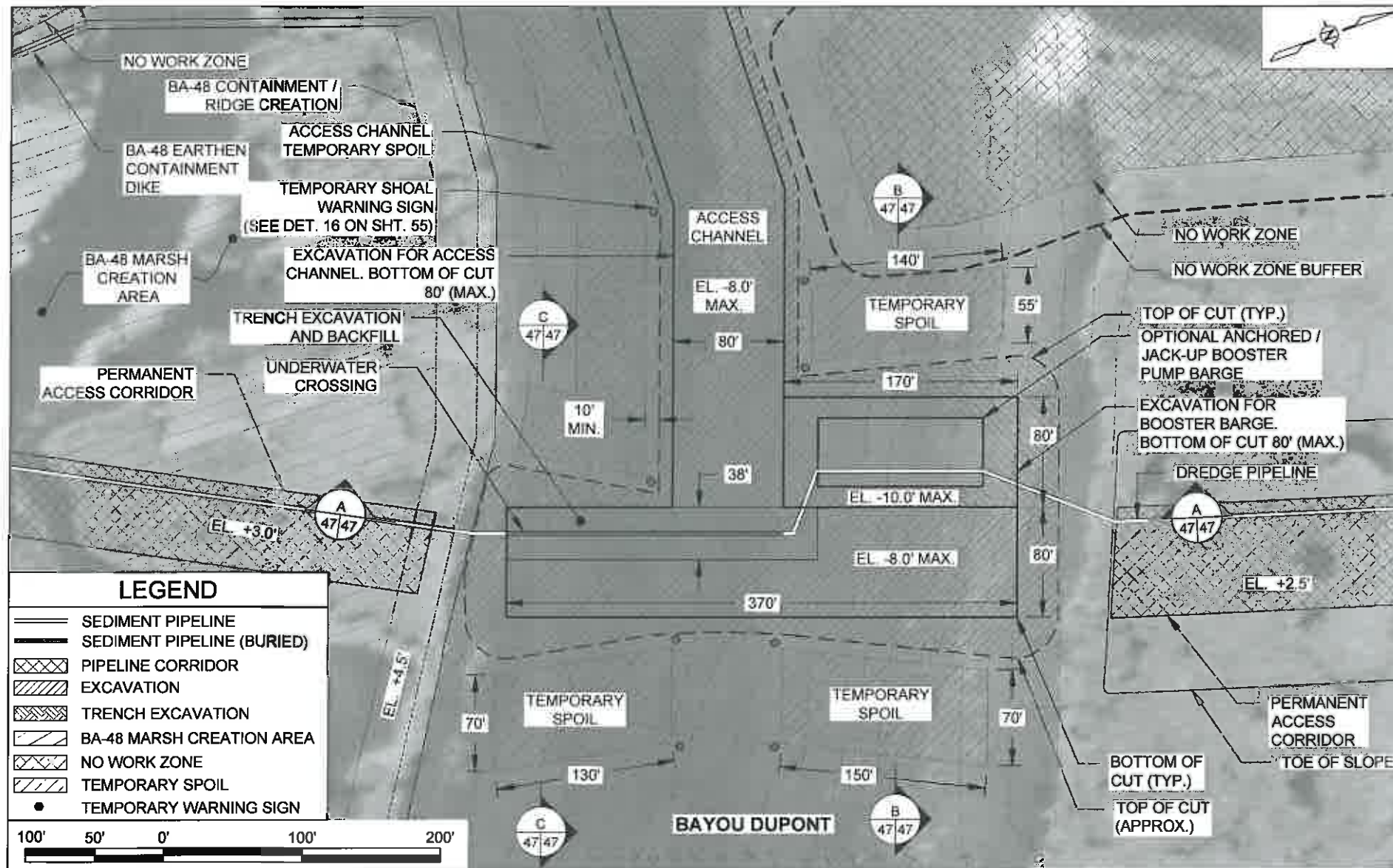
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

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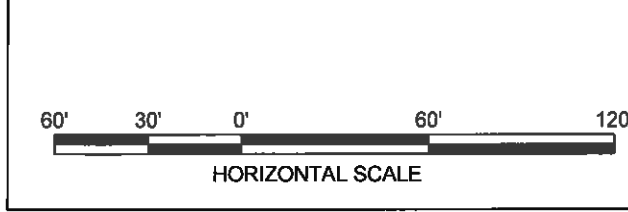
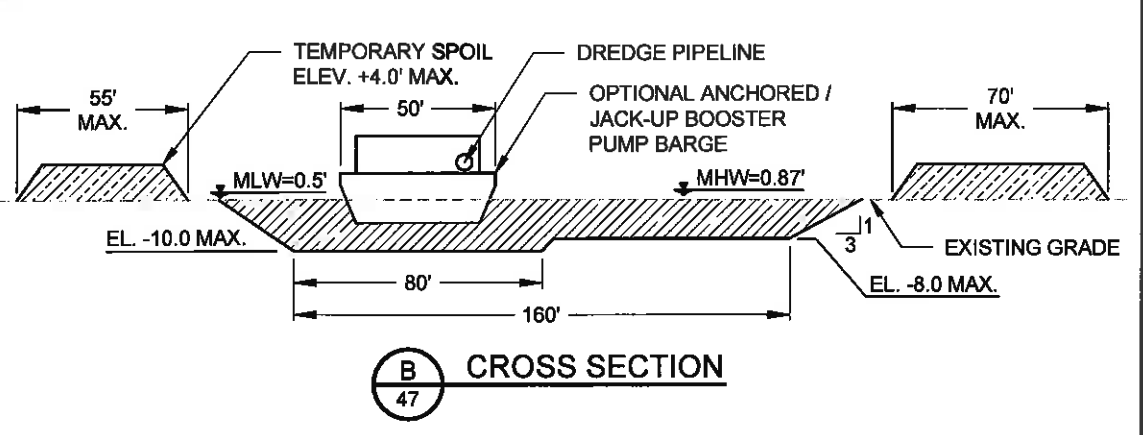
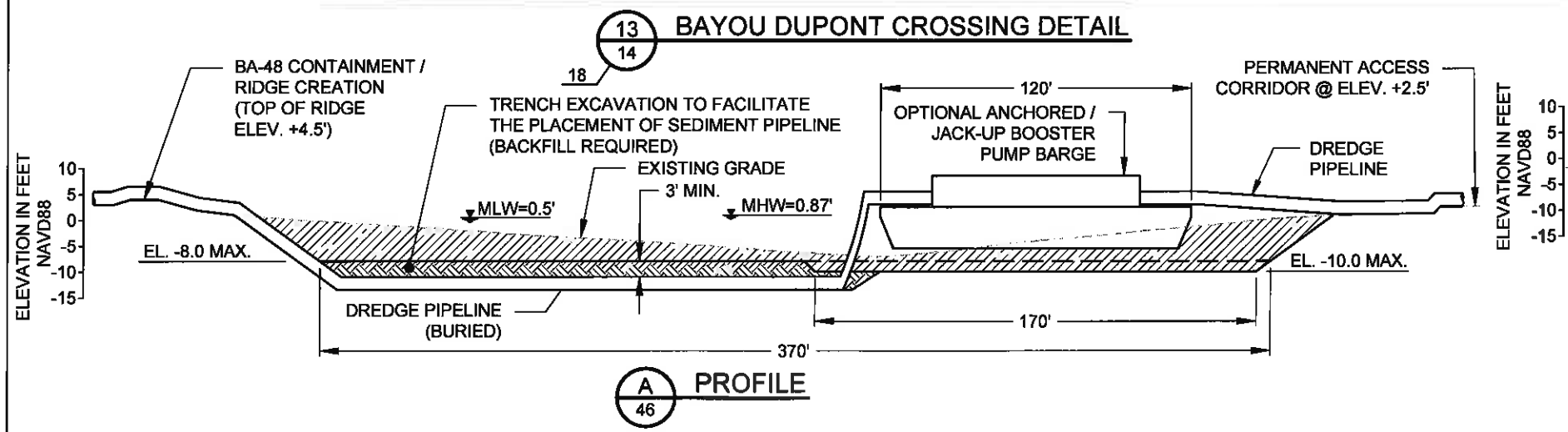
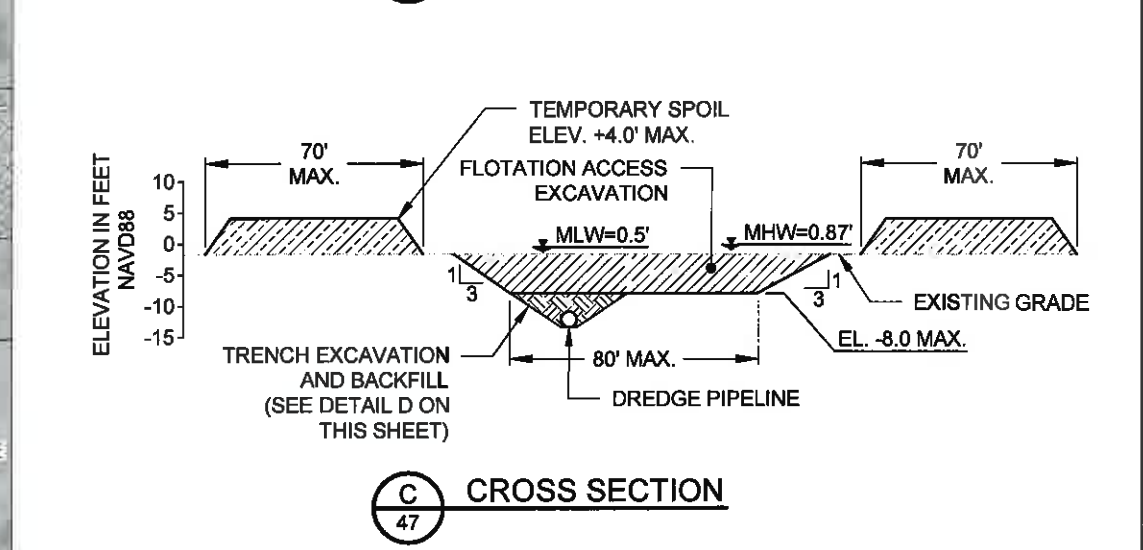
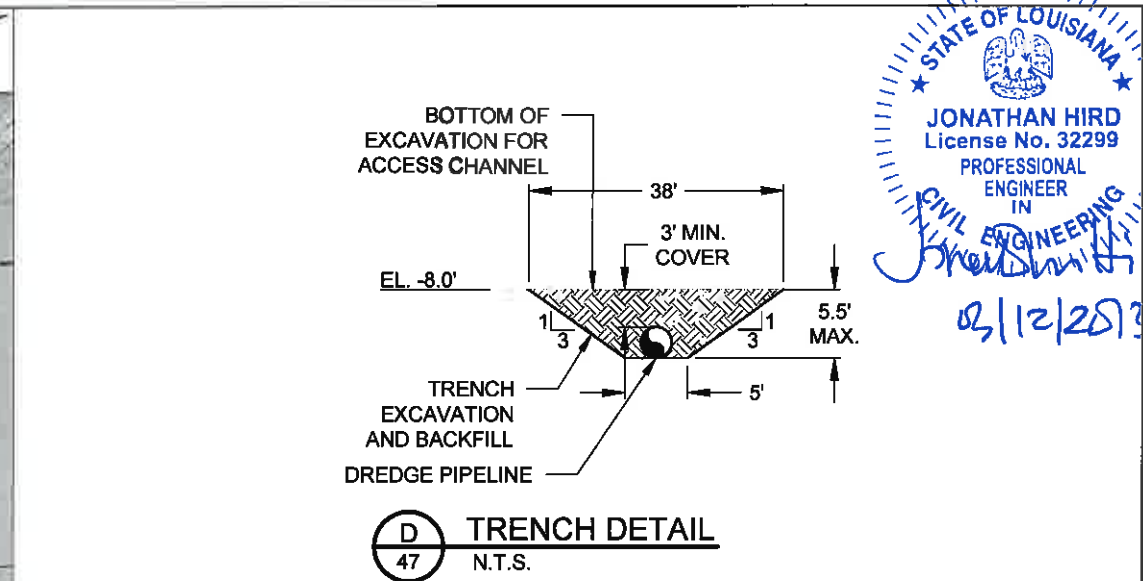
PROPOSED LAND BASED BOOSTER PUMP LOCATION DETAILS  
DATE: MARCH 8, 2013  
SHEET 46 OF 81

DRAWN BY: YC      DESIGNED BY: SA



**LEGEND**

- SEDIMENT PIPELINE
- SEDIMENT PIPELINE (BURIED)
- ▨ PIPELINE CORRIDOR
- ▨ EXCAVATION
- ▨ TRENCH EXCAVATION
- ▨ BA-48 MARSH CREATION AREA
- ▨ NO WORK ZONE
- ▨ TEMPORARY SPOIL
- TEMPORARY WARNING SIGN



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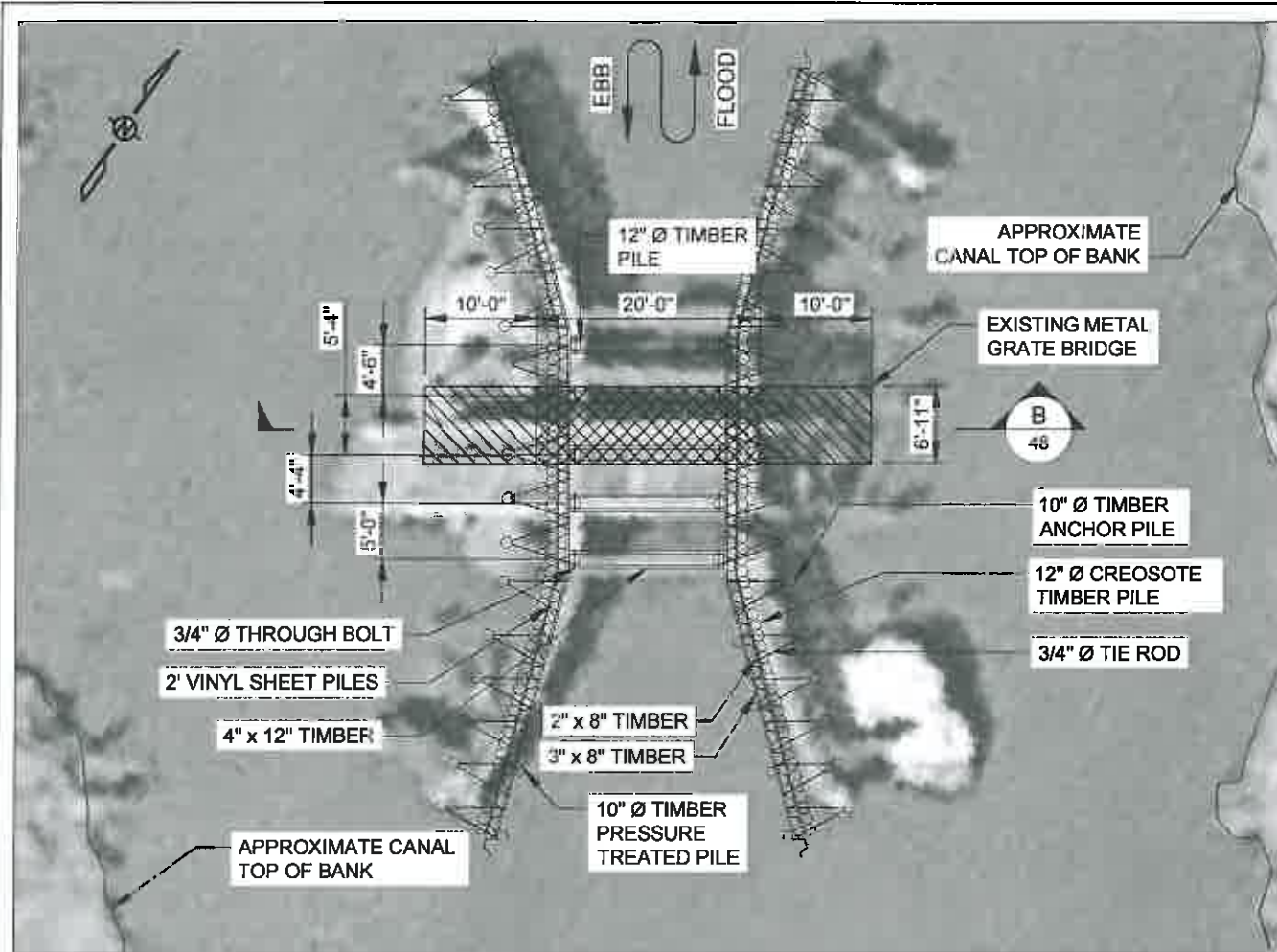
**MOFFATT & NICHOL**  
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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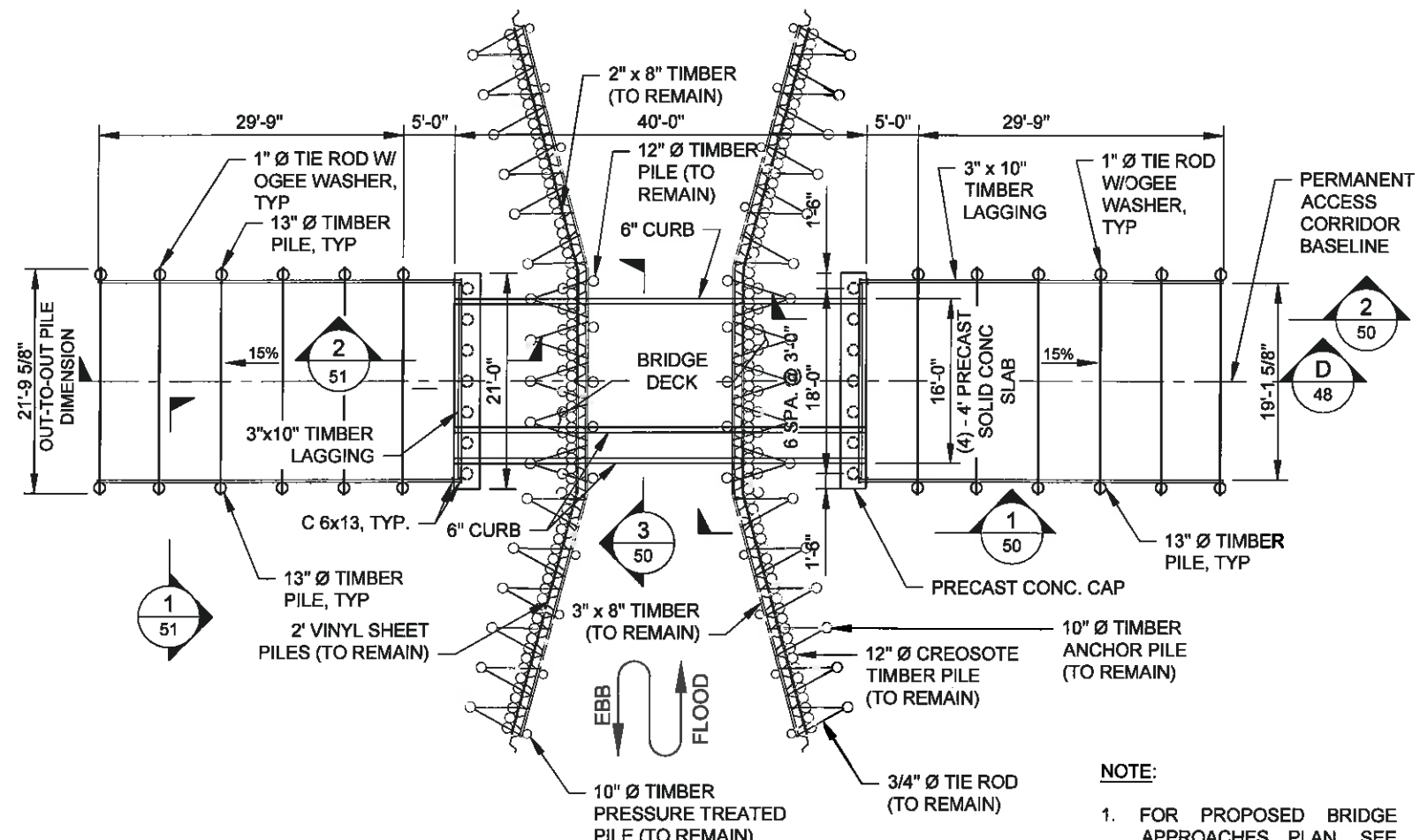
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| DRAWN BY: YC                        | DESIGNED BY: SA | MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION | BAYOU DUPONT BOOSTER PUMP SITE TYPICAL DETAILS |
|                                     |                 | STATE PROJECT NUMBER: BA-43 (EB) AND BA-48                     | DATE: MARCH 8, 2013                            |
| APPROVED BY: MAURY CHATELLIER, P.E. |                 | SHEET 47 OF 81   |  |

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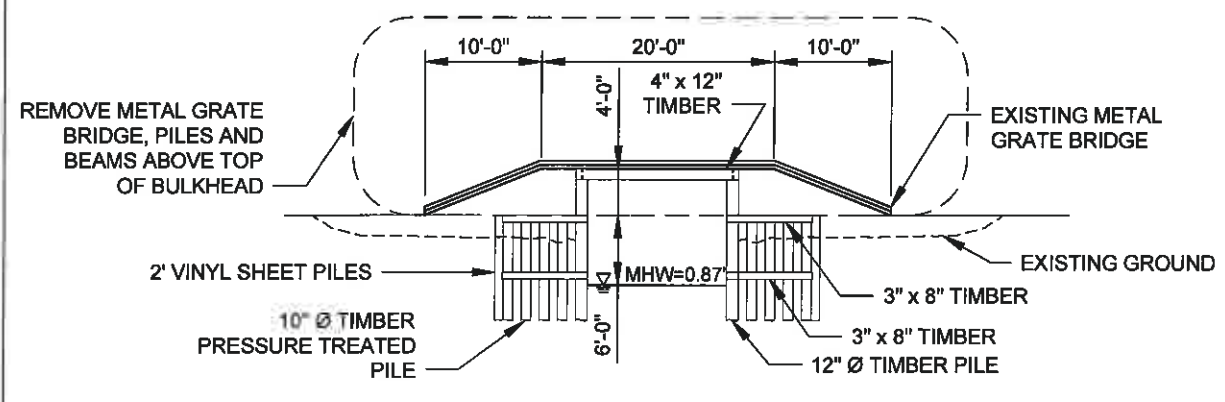


**A PLAN EXISTING BRIDGE**  
 12 SCALE: 1/16" = 1'-0"

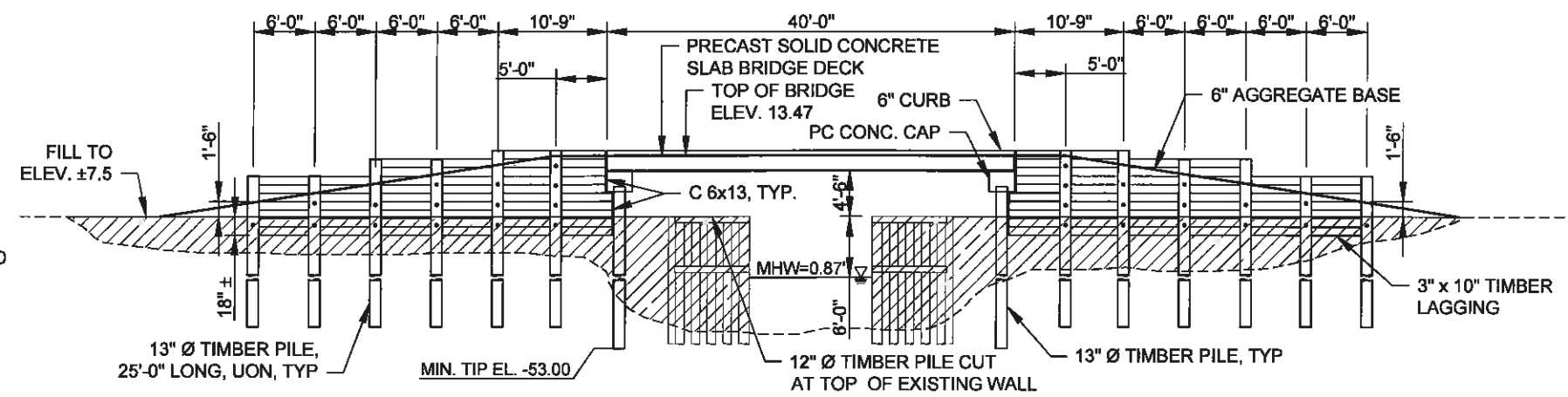


**C PLAN PROPOSED BRIDGE**  
 12 SCALE: 1/16" = 1'-0"

**NOTE:**  
 1. FOR PROPOSED BRIDGE APPROACHES PLAN, SEE DETAIL 'A' ON SHEET 49.



**B ELEVATION EXISTING BRIDGE**  
 48 SCALE: 1/16" = 1'-0"



**D ELEVATION PROPOSED BRIDGE**  
 48 SCALE: 1/16" = 1'-0"



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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

**FINAL BID SET**

BRIDGE/PIPE CROSSING PLANS  
 SHEET 1 OF 2

DATE: MARCH 8, 2013

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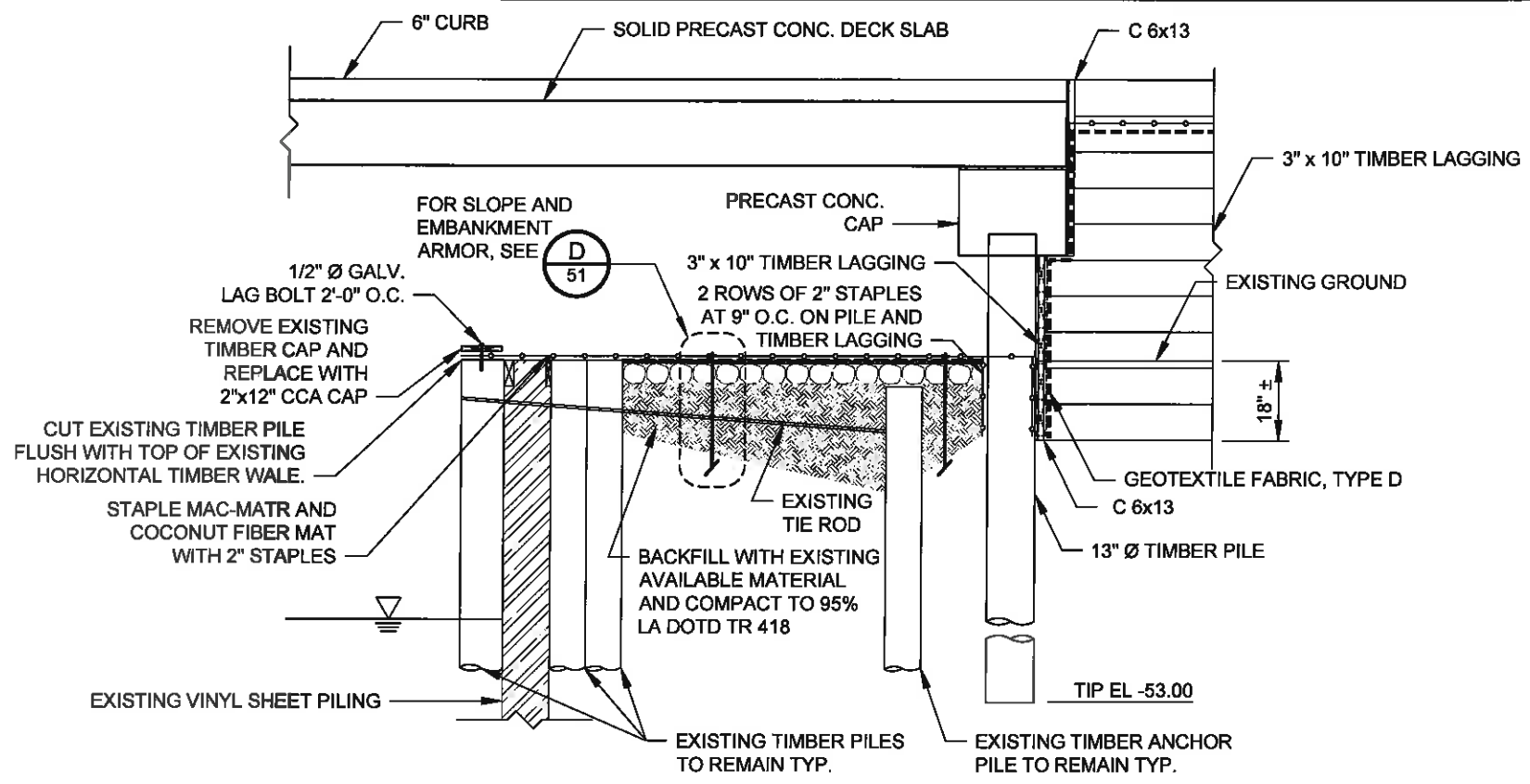
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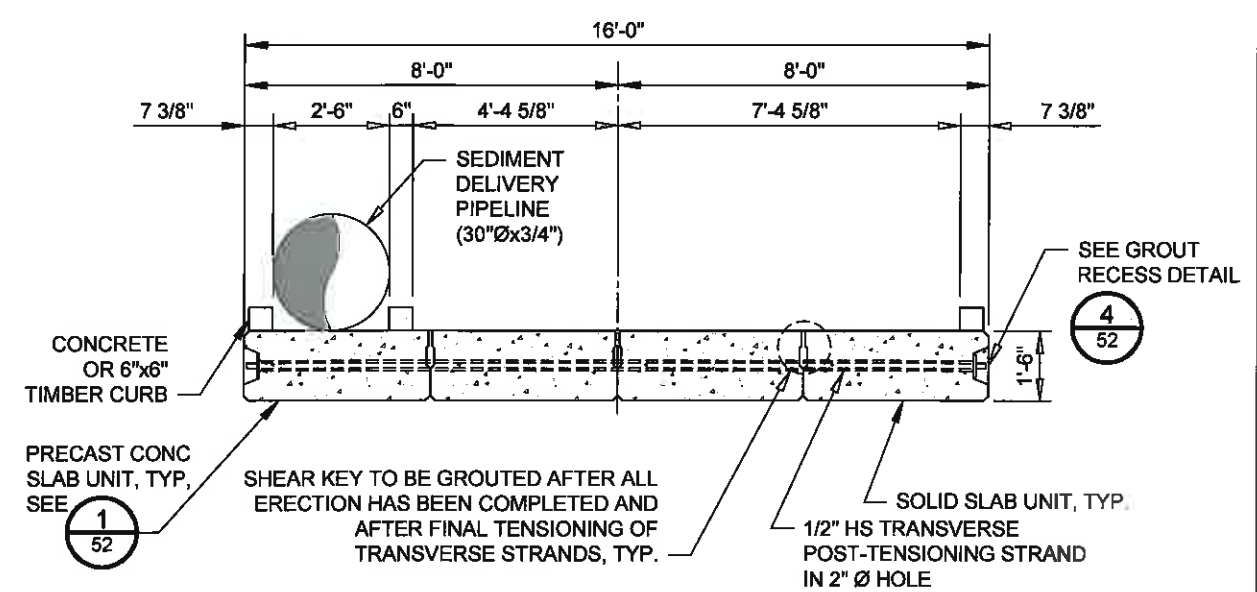
SHEET 48 OF 81





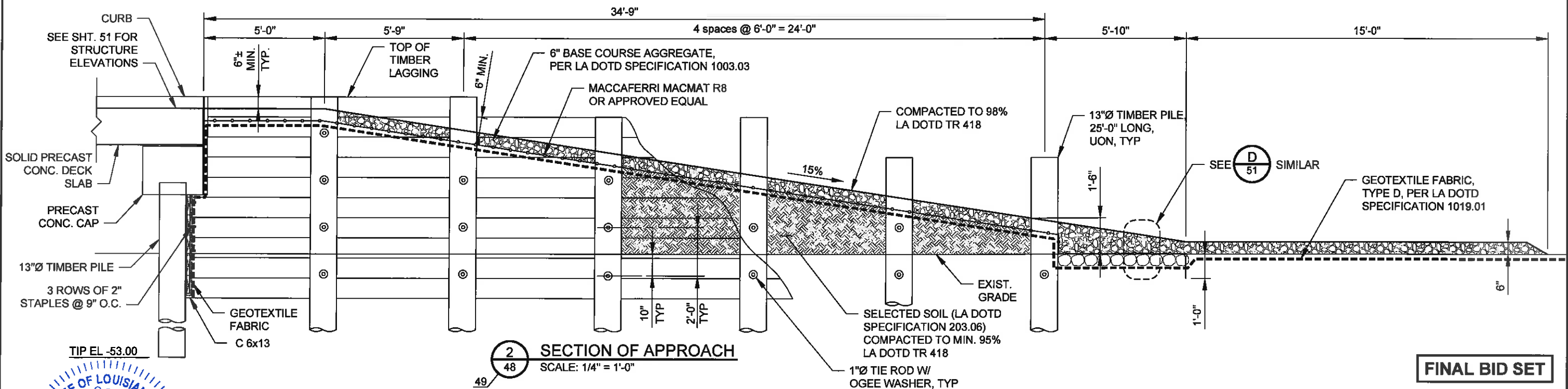


**1 SECTION AT END BENT**  
SCALE: 1/4" = 1'-0"



**NOTE:**  
TRANSVERSE POST TENSIONING STRAND SHALL BE STRESSED TO  $P_{jack} = 40$  KIPS PER STRAND MINIMUM.

**3 TYPICAL SECTION**  
SCALE: 1/4" = 1'-0"



**2 SECTION OF APPROACH**  
SCALE: 1/4" = 1'-0"

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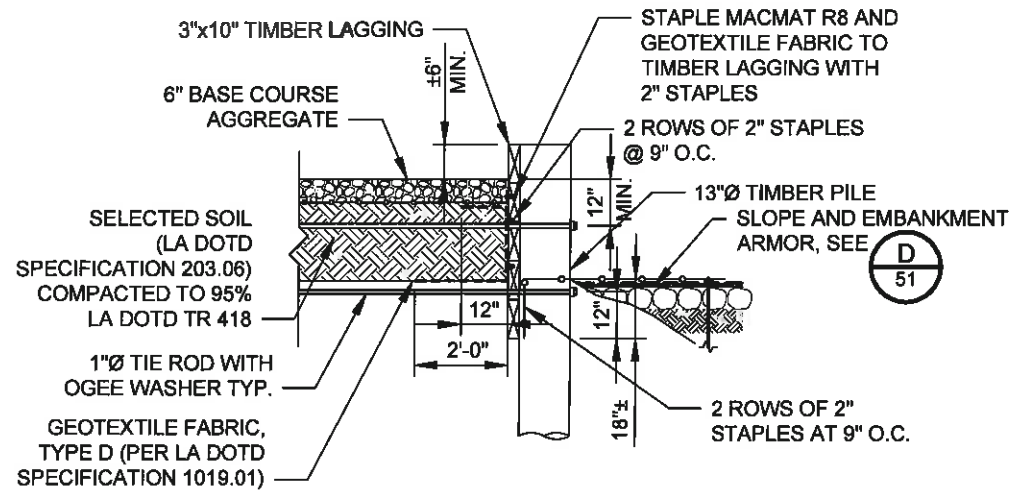
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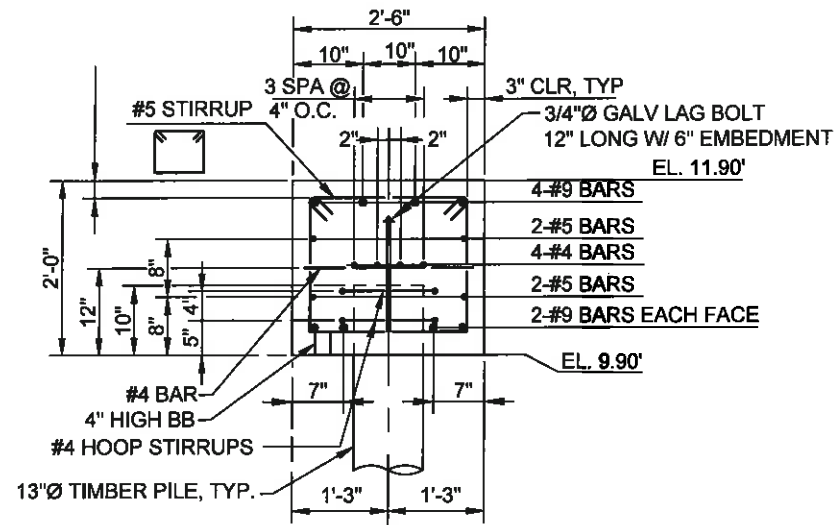
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
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DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

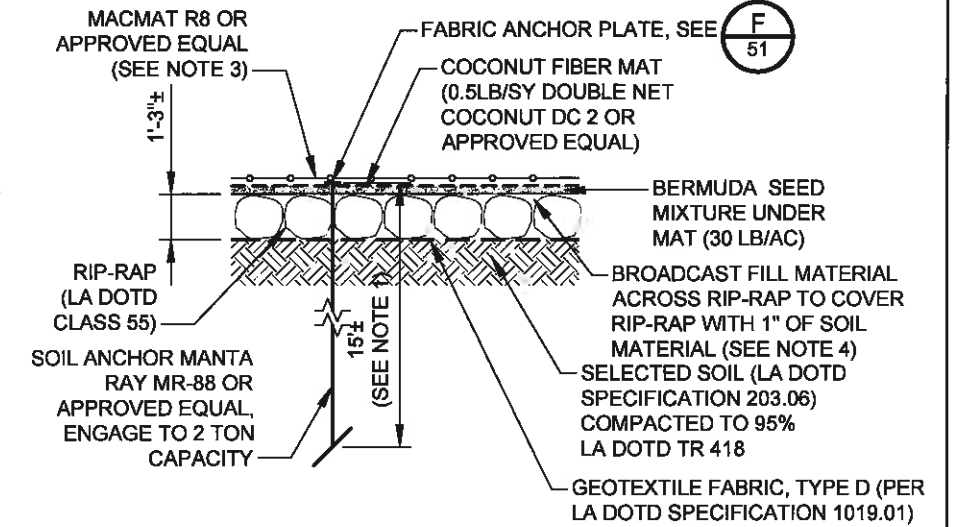
**FINAL BID SET**  
BRIDGE/PIPE CROSSING SECTIONS  
DATE: MARCH 8, 2013  
SHEET 50 OF 81



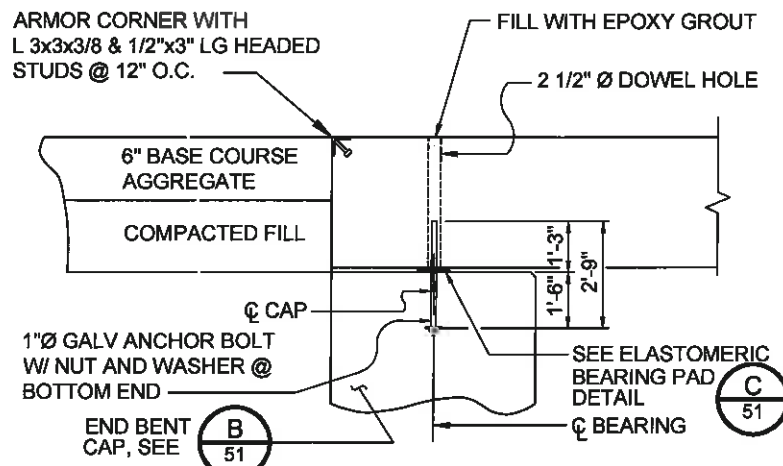
**1** SECTION THROUGH TIMBER LAGGING  
49 SCALE: 1/4" = 1'-0"



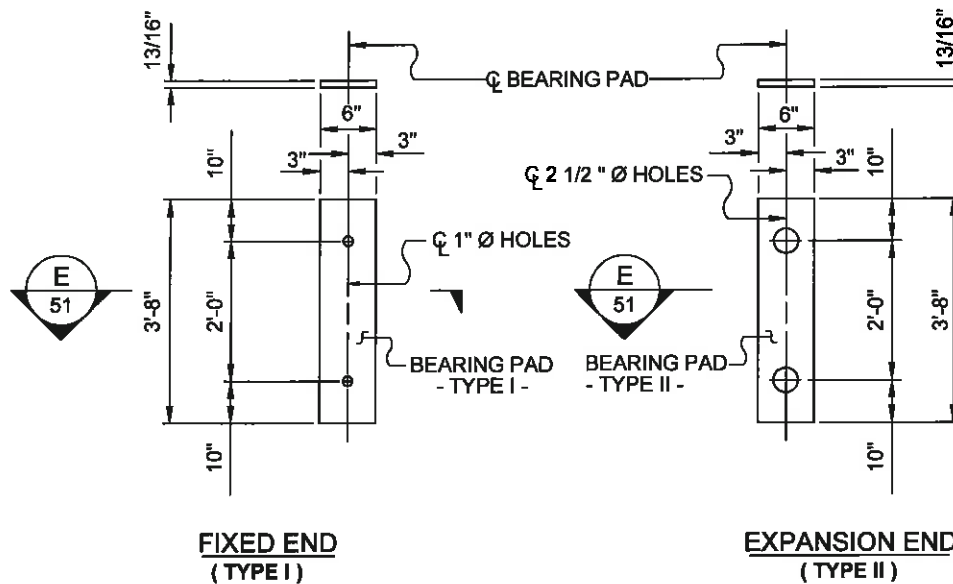
**B** SECTION AT END BENT  
51 SCALE: NTS



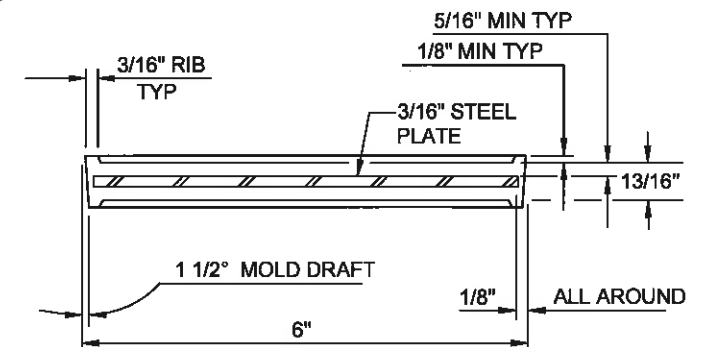
**D** SLOPE AND EMBANKMENT ARMOR  
49 SCALE: NTS  
50, 51



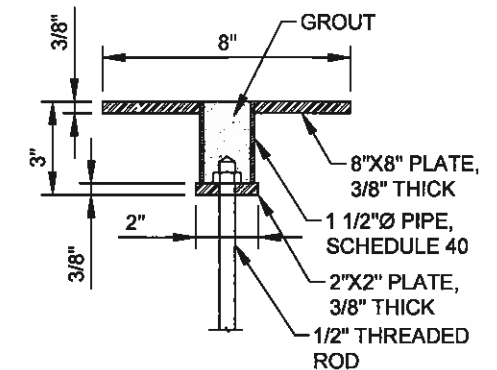
**2** SECTION AT END BENT  
48 SCALE: NTS  
52



**C** ELASTOMERIC BEARING DETAILS  
51 SCALE: NTS



**E** TYPICAL SECTION BEARING PAD  
51 SCALE: NTS



**F** FABRIC ANCHOR PLATE DETAIL  
51 SCALE: NTS  
(GALVANIZE AFTER FABRICATION)

**NOTES:**

- REVISE ANCHOR LENGTH AS REQUIRED TO ACHIEVE 2 TON PULLOUT CAPACITY.
- ALL SOIL ANCHOR COMPONENTS TO BE GALVANIZED.
- EDGES OF WIRE MESH TO BE LACED WITH WIRE OR HOG-RINGED PER MANUFACTURER'S RECOMMENDATION.
- USABLE SOIL PER LA DOTD SPECIFICATION 203.06 UTILIZED FOR RIP-RAP FILL COVER.

**FINAL BID SET**



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**MOFFATT & NICHOL**  
ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

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

DRAWN BY: YC

DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

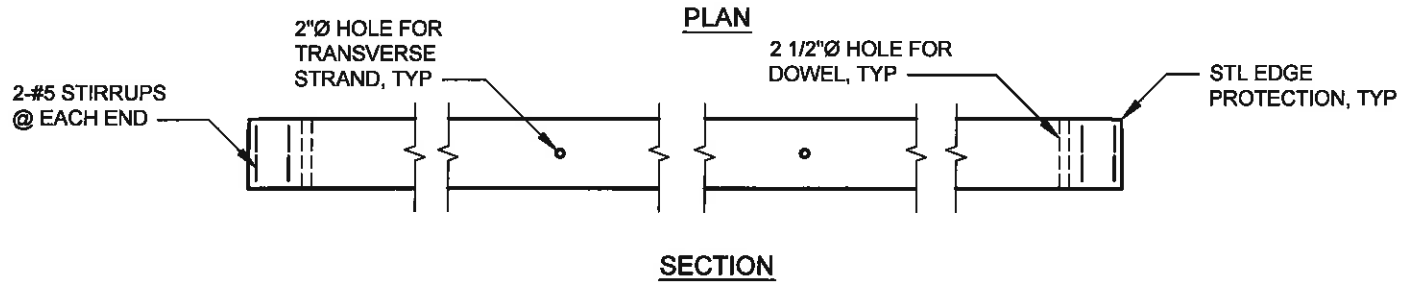
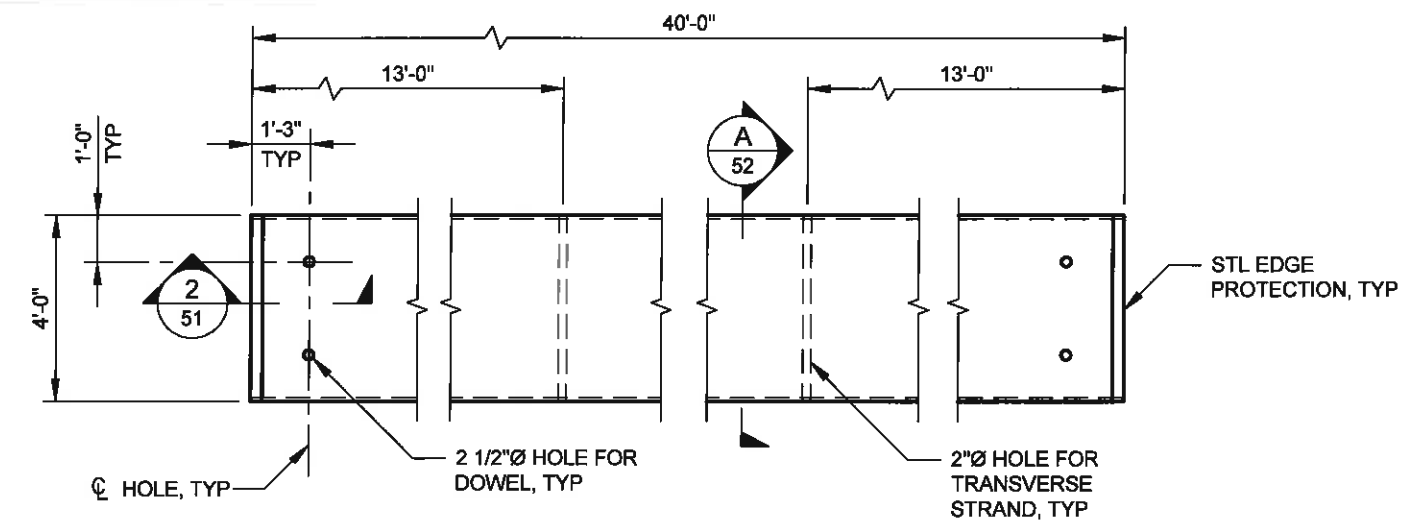
BRIDGE/PIPE CROSSING DETAILS (1 OF 2)

DATE: MARCH 8, 2013

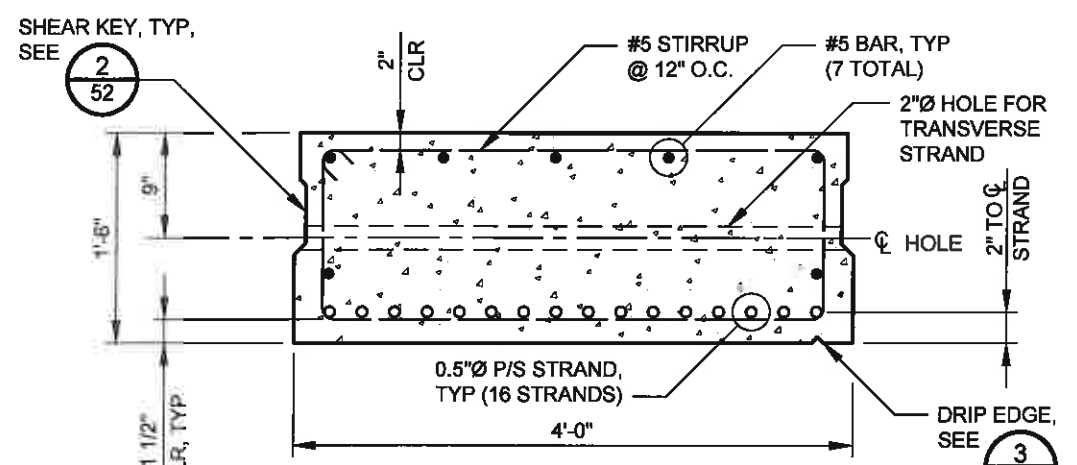
APPROVED BY: MAURY CHATELLIER, P.E.

SHEET 51 OF 81

*Jonathan Hird*  
03/12/2013

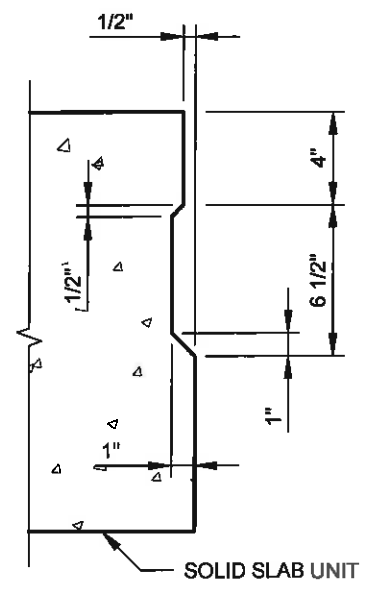


1 PRECAST CONCRETE SLAB UNIT  
SCALE: 1/4" = 1'-0"

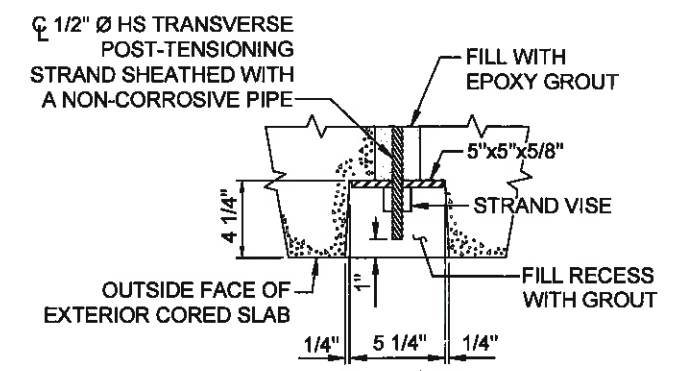
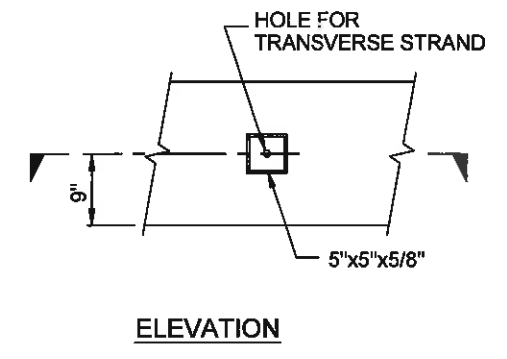


- NOTES:
1. DEBOND 4 STRANDS FOR 5'-0" AT EACH END.
  2. REPLACE SHEAR KEY WITH GROUT RECESS ON OUTER SIDE OF EACH EXTERIOR SECTION.
  3. DRIP EDGE ONLY REQUIRED ON OUTER SIDE OF EACH EXTERIOR SECTION.

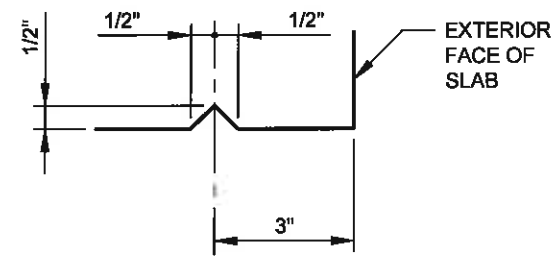
A SECTION  
SCALE: 3/4" = 1'-0"



2 SECTION  
SCALE: 1 1/2" = 1'-0"



4 GROUT RECESS DETAIL  
SCALE: 1/4" = 1'-0"



3 DRIP EDGE  
NOT TO SCALE

STATE OF LOUISIANA  
JONATHAN HIRD  
License No. 32299  
PROFESSIONAL ENGINEER  
IN CIVIL ENGINEERING  
Jonathan Hird  
03/12/2013

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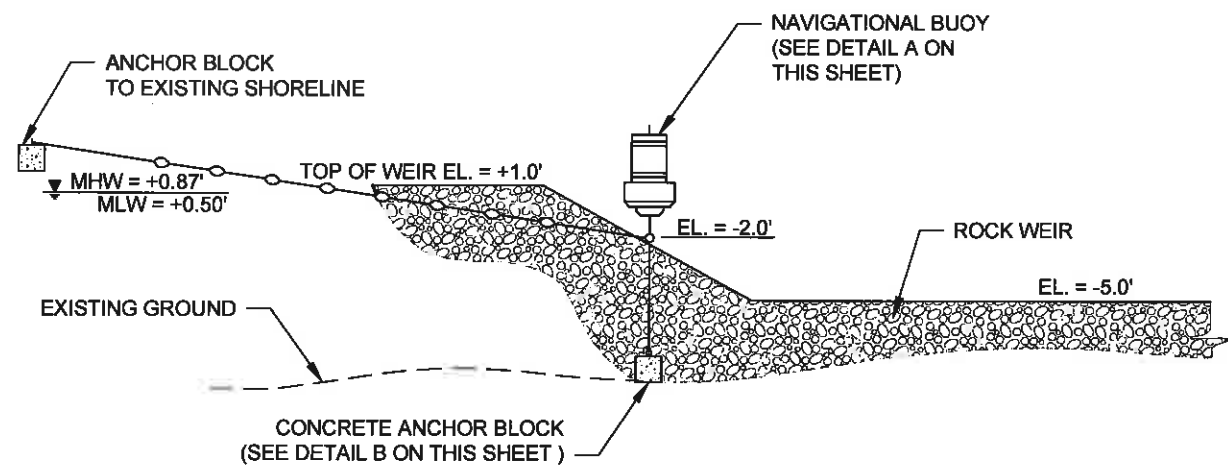
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COASTAL PROTECTION AND RESTORATION AUTHORITY  
450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

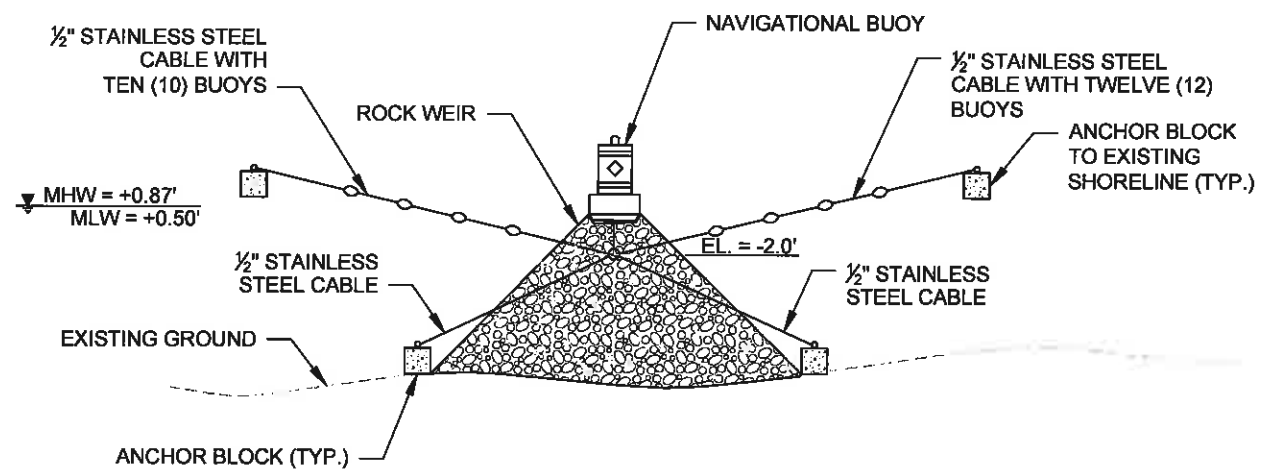
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
APPROVED BY: MAURY CHATELLIER, P.E.

BRIDGE/PIPE CROSSING DETAILS (2 OF 2)  
DATE: MARCH 8, 2013  
SHEET 52 OF 81

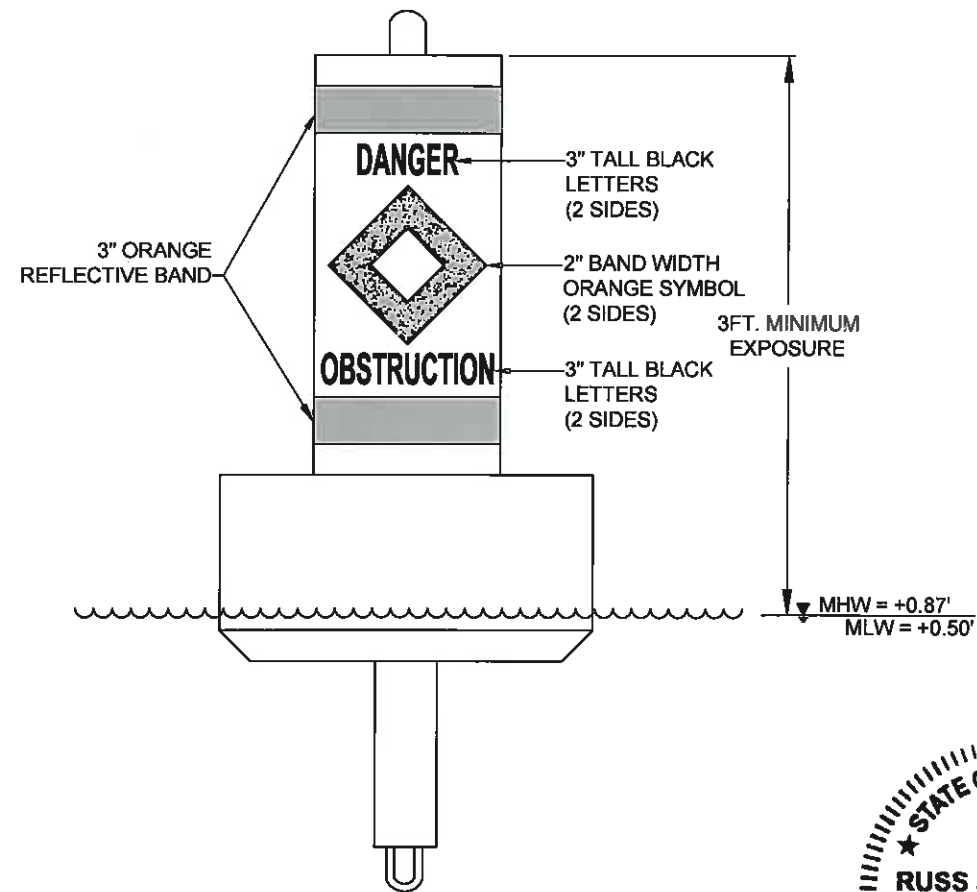
DRAWN BY: YC DESIGNED BY: SA



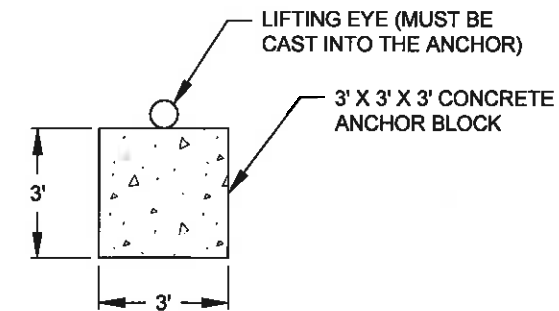
**ELEVATION - BUOY DETAILS**  
NTS



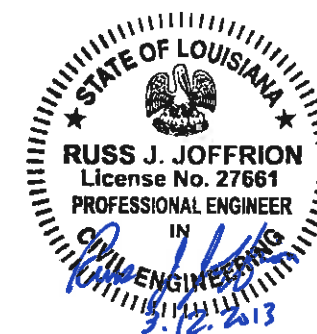
**SECTION - BUOY DETAILS**  
NTS



**DETAIL A**  
**NAVIGATIONAL BUOY**  
NTS



**DETAIL B**  
**CONCRETE ANCHOR BLOCK**  
NTS



**14**  
**34** **BOUY AND CONCRETE ANCHOR BLOCK DETAILS**  
NOT TO SCALE

**FINAL BID SET**

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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
450 LAUREL STREET  
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MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

BOUY AND CONCRETE ANCHOR BLOCK DETAILS

DRAWN BY: YC

DESIGNED BY: SA

APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013

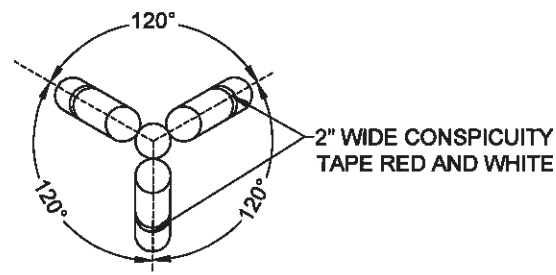
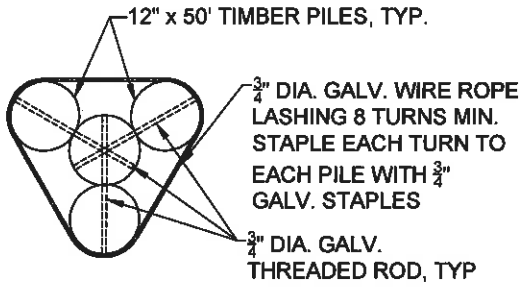
SHEET 53 OF 81

**NOTES:**

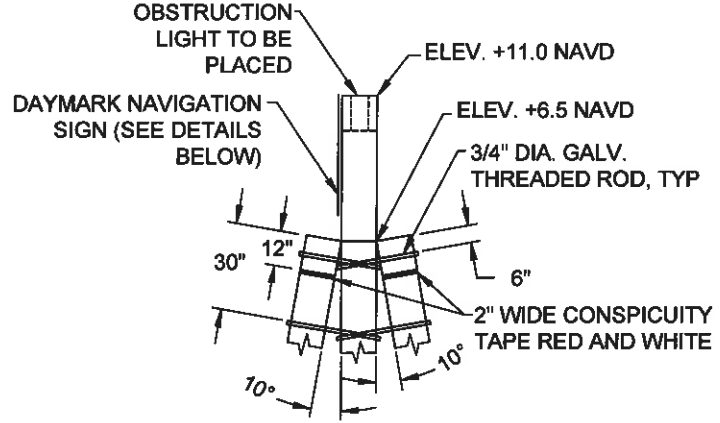
- ALL 3/4" DIA. ALL THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE WITH GALVANIZED OGEE WASHERS AND GALVANIZED NUTS.
- BOLTS AND NUTS SHOULD CONFORM TO ASTM A307 GALV.
- WASHERS SHALL BE GALVANIZED OGEE CONFORMING TO ANSI B18.22.1
- GALVANIZED ROPE SHALL BE IN ACCORDANCE WITH ASTM A641.
- THE 3/4" DIA. GALVANIZED THREADED ROD SHALL BE A MINIMUM OF 6" BELOW TOP OF BATTER PILE AND AND 3" VERTICAL CLEARANCE FROM ADJACENT TIE ROD.
- TIMBER PILING SHALL BE 50 FEET IN LENGTH WITH A NOMINAL 12-INCH DIA. AND CONFORM WITH REQUIREMENTS OF ASTM D25.
- ALL TIMBER PILES SHALL BE CCA TREATED IN ACCORDANCE WITH AWPA USE CATEGORY 5C. FIELD TREAT CUTS, BEVELS, AND NOTCHES IN ACCORDANCE WITH AWPA M4, AND APPROPRIATE MSDS AND CIS.

**NOTES:**

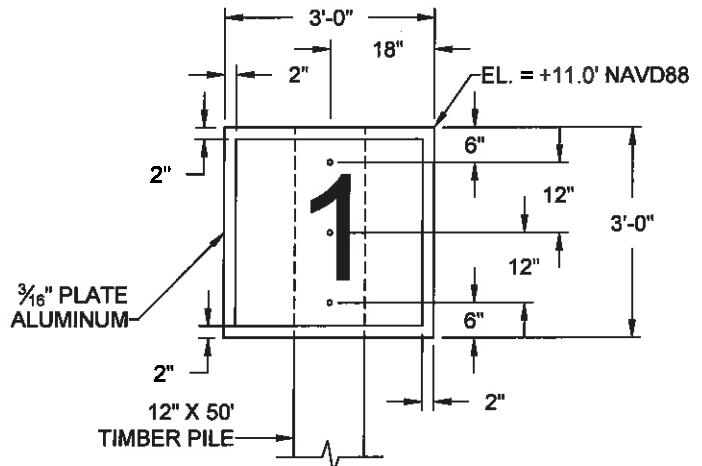
- NOTCH ROUND TIMBER PILE FOR FLUSH ALUMINUM MOUNTING BRACKET ATTACHMENT. FIELD COAT EXPOSED PORTIONS OF NOTCH IN ACCORDANCE WITH AWPA M4.
- HOLES IN ALUMINUM SHALL BE 1/16" OVERSIZE AND HOLES IN ROUND TIMBER PILE SHALL BE 1/8" OVERSIZE FOR THEIR CORRESPONDING BOLTS.



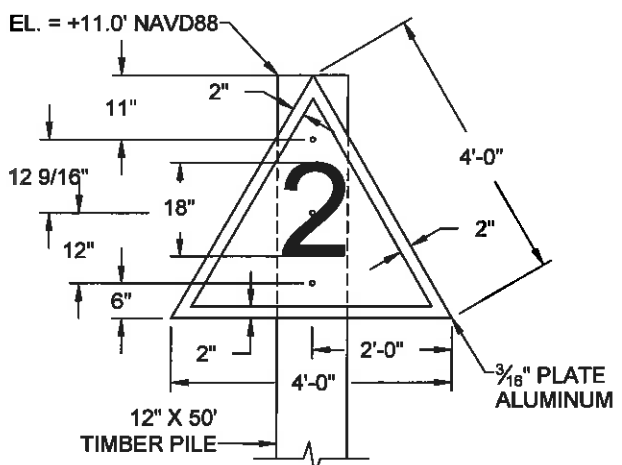
TOP VIEW



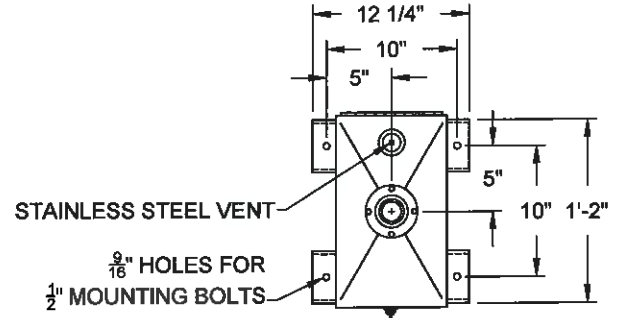
ELEVATION VIEW



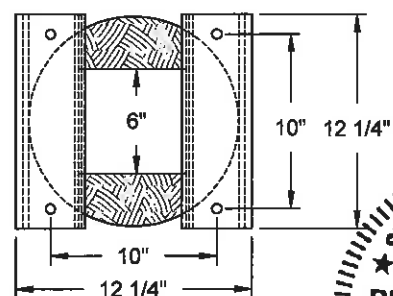
DAYMARK NAVIGATION AID  
 PORT SIDE - ODD NUMBER



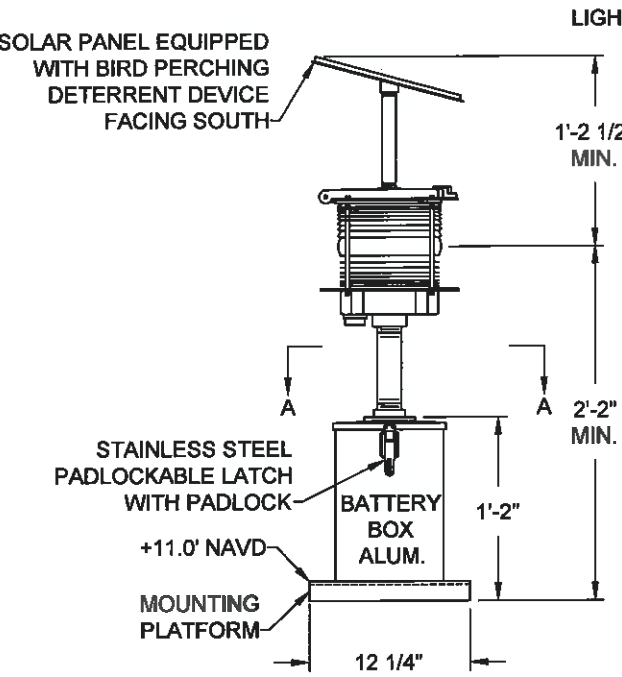
DAYMARK NAVIGATION AID  
 STARBOARD SIDE - EVEN NUMBER



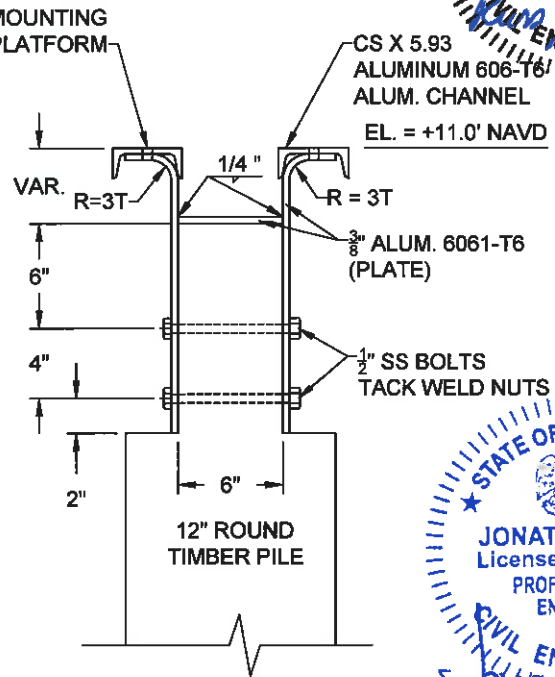
SECTION-PLAN  
 A-A



PLAN



ELEVATION  
 2.5 SEC. DAYLIGHT ALUM.



ELEVATION  
 MOUNTING DETAILS-2.5 SEC. DAYLIGHT ALUM.



**NOTES:**

- SEE SHEET 34 FOR SIGN PLACEMENT LOCATIONS.
- ALL DAYMARK NAVIGATION AIDES SHALL ABIDE BY U.S.C.G. REGULATIONS.
- 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.

15 NAVIGATIONAL AID DETAILS  
 34 NOT TO SCALE

**FINAL BID SET**

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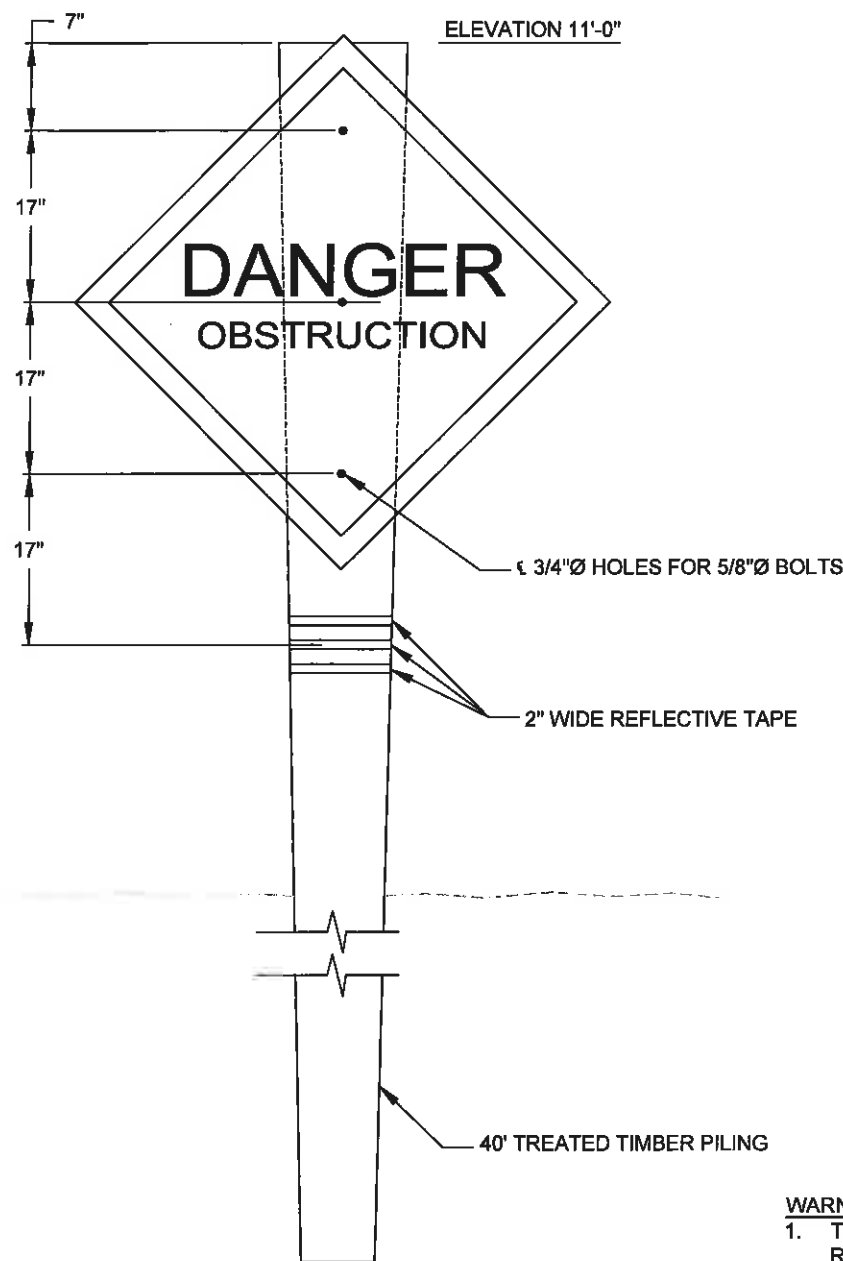
MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

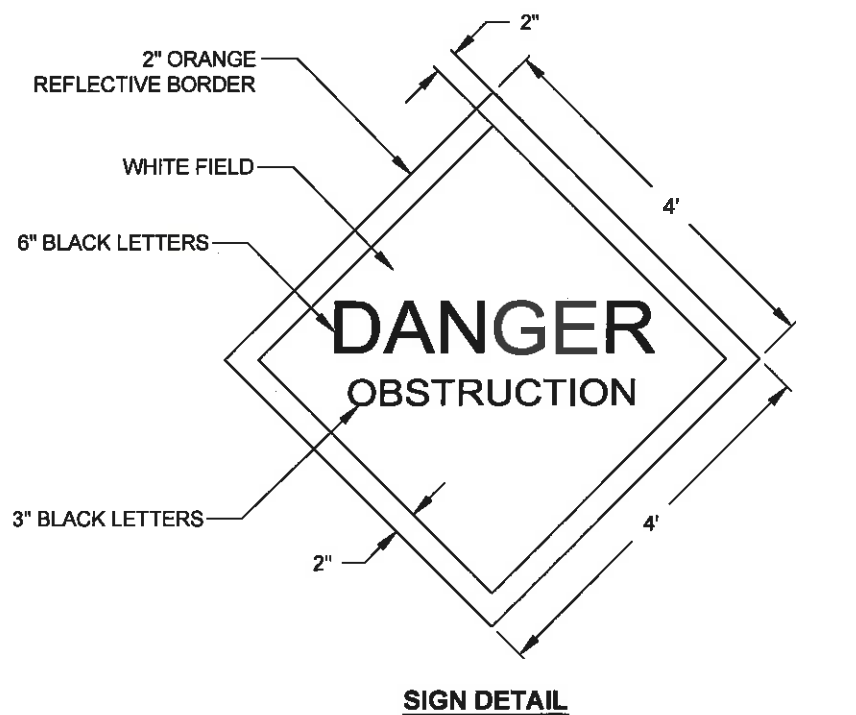
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

PILE CLUSTER AND NAVIGATIONAL AID DETAILS  
 DATE: MARCH 8, 2013  
 SHEET 54 OF 81

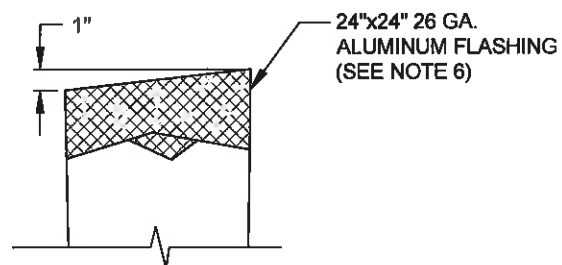
DRAWN BY: YC DESIGNED BY: SA



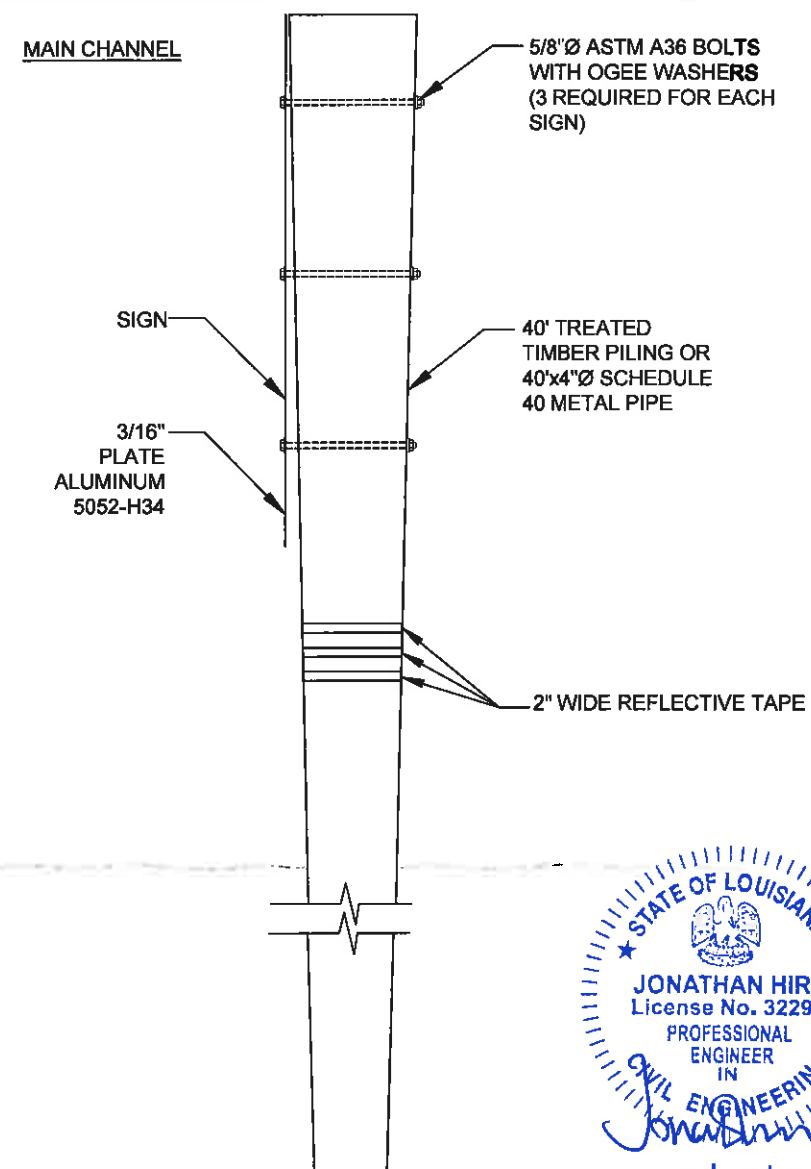
**WARNING SIGN ELEVATION**



**SIGN DETAIL**



**TYPICAL TIMBER PILE CAP**



**WARNING SIGN SIDE DETAIL**

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

**WARNING SIGN NOTES**

1. TWENTY-SEVEN (27) TEMPORARY WARNING SIGNS, INCLUDING TIMBER PILES, SHALL BE INSTALLED AT LOCATIONS SHOWN ON SHEETS 32 AND 46. 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 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\\_0233cfr330\\_02.html](http://www.access.gpo.gov/nara/cfr/waisidx_0233cfr330_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 AWP A P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.
5. TIMBER PILINGS 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.

STATE OF LOUISIANA  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Russ J. Joffrion*  
 3.12.2013

16  
 32  
 47  
**TEMPORARY SHOAL WARNING SIGN DETAILS**  
 NOT TO SCALE

**FINAL BID SET**

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MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

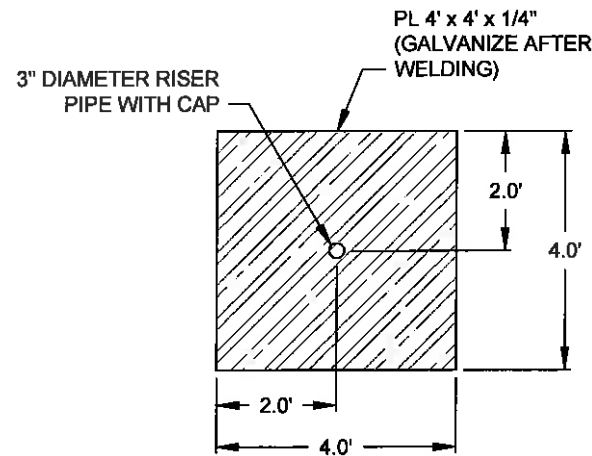
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

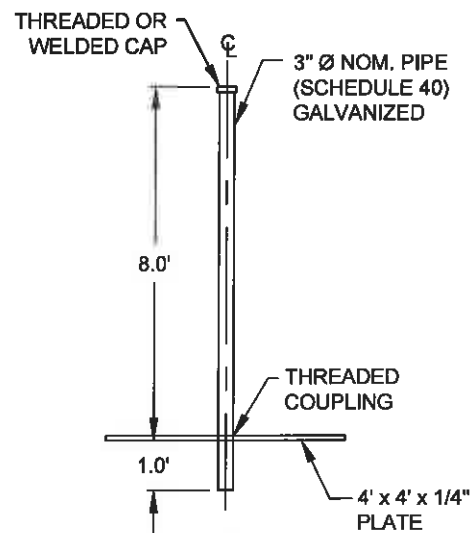
TEMPORARY SHOAL WARNING SIGN DETAILS

DATE: MARCH 8, 2013

SHEET 55 OF 81



**PLAN**



**ELEVATION**

**17** SETTLEMENT PLATE DETAILS  
13 NOT TO SCALE

**SETTLEMENT PLATE NOTES:**

1. SETTLEMENT PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. SETTLEMENT PLATES SHALL BE PLACED NOT TO IMPEDE WORK. LOCATION AND ELEVATION WILL BE RECORDED DURING CONSTRUCTION AND AS-BUILT SURVEY PER TS-3.
3. FOR INSTALLATION METHOD REFER TO TS-10 OF THE PROJECT SPECIFICATIONS.
4. SEE SHEETS 13 THROUGH 21 FOR SETTLEMENT PLATE LOCATIONS.

**DREDGE PIPELINE**

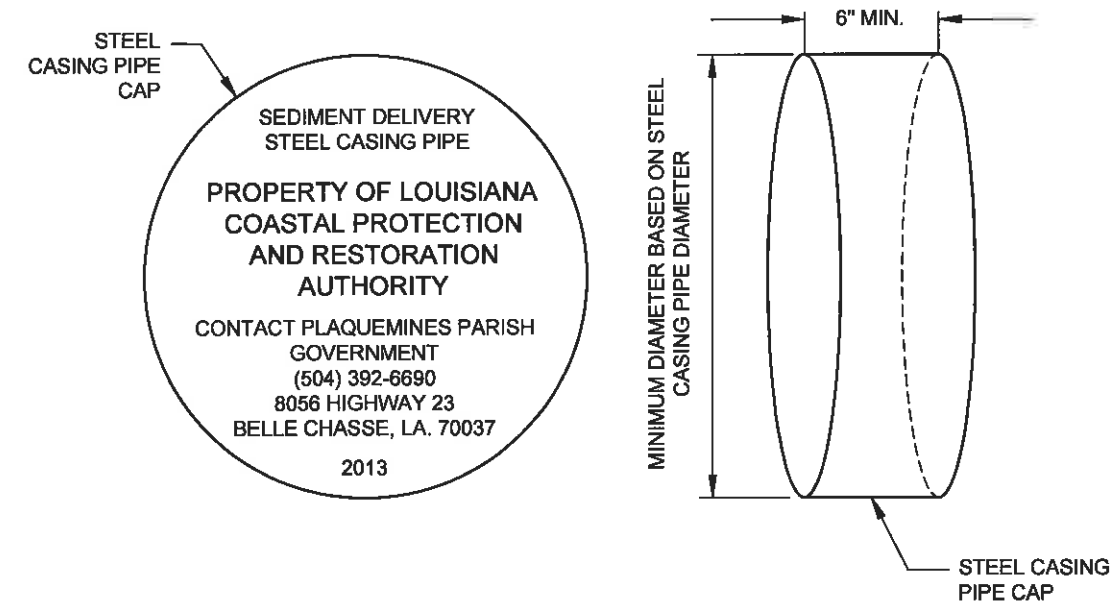
**PIPE SIZE CONTENTS**

CONTACT: CONTRACTOR  
PHONE NUMBER  
STREET ADDRESS  
CITY, STATE, ZIP CODE

**42 INCH SEDIMENT DELIVERY STEEL CASING PIPE**

**PROPERTY OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY**

CONTACT PLAQUEMINES PARISH GOVERNMENT  
(504) 392-6690  
8056 HIGHWAY 23  
BELLE CHASSE, LA. 70037



**20** CASING PIPE CAP DETAIL  
11 NOT TO SCALE

**CASING PIPE CAP NOTES:**

1. STEEL CASING PIPE CAPS SHALL BE 1/2" THICK AND SHALL BE COATED WITH COAL TAR EPOXY-POLYAMIDE PAINT, IN ACCORDANCE WITH THE LADOTD 2006 STANDARD SPECIFICATION 1008.04.
2. EXISTING STEEL CASING PIPE CAPS SHALL BE CUT FROM EXISTING CASING PIPE TO FACILITATE THE TEMPORARY PLACEMENT OF THE DREDGE PIPELINE. AFTER MARSH FILL ELEVATION HAS BEEN ACCEPTED AND DREDGE PIPELINE HAS BEEN REMOVED, NEW CAPS SHALL BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS. CAPS SHALL BE WELDED TO CASING PIPE AND SHALL BE WATER TIGHT.
3. ALL COSTS ASSOCIATED WITH CASING PIPE CAPS SHALL BE PAID FOR PER BID ITEM NO. 1, "MOBILIZATION AND DEMOBILIZATION".
4. SEE THE SPECIFICATIONS FOR CASING PIPE CAP DETAILS.

**18** TEMPORARY PIPELINE MARKER DETAIL  
38 NOT TO SCALE

**TEMPORARY PIPELINE MARKER NOTES:**

1. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LA DOTD 2006 STANDARD SPECIFICATION 729.
2. PROPOSED DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN THE WORK PLAN PRIOR TO CONSTRUCTION.
3. MARKERS SHALL BE PLACED PRIOR TO DREDGE PIPELINE INSTALLATION AND REMOVED FOLLOWING THE DREDGE PIPELINE REMOVAL.
4. SEE THE SPECIFICATIONS FOR TEMPORARY PIPELINE MARKER DETAILS.

**19** CASING PIPE MARKER DETAIL  
36 NOT TO SCALE

**CASING PIPE MARKER NOTES:**

1. EXISTING MARKERS ON EACH SIDE OF LOUISIANA HIGHWAY 23 AT EACH END OF THE CASING PIPES SHALL BE TEMPORARILY REMOVED AND RE-INSTALLED IN ACCORDANCE WITH LADOTD 2006 STANDARD SPECIFICATION 729.
2. PROPOSED DRAWING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN THE WORK PLAN PRIOR TO CONSTRUCTION.
3. MARKERS SHALL BE REPLACED SUBSEQUENT TO BACKFILLING THE PIT AND PRIOR TO DEMOBILIZATION.
4. SEE THE SPECIFICATIONS FOR CASING PIPE MARKER DETAILS.



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**MOFFATT & NICHOL**

ONE AMERICAN PLACE  
301 MAIN STREET, SUITE 800  
BATON ROUGE, LA 70825  
225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

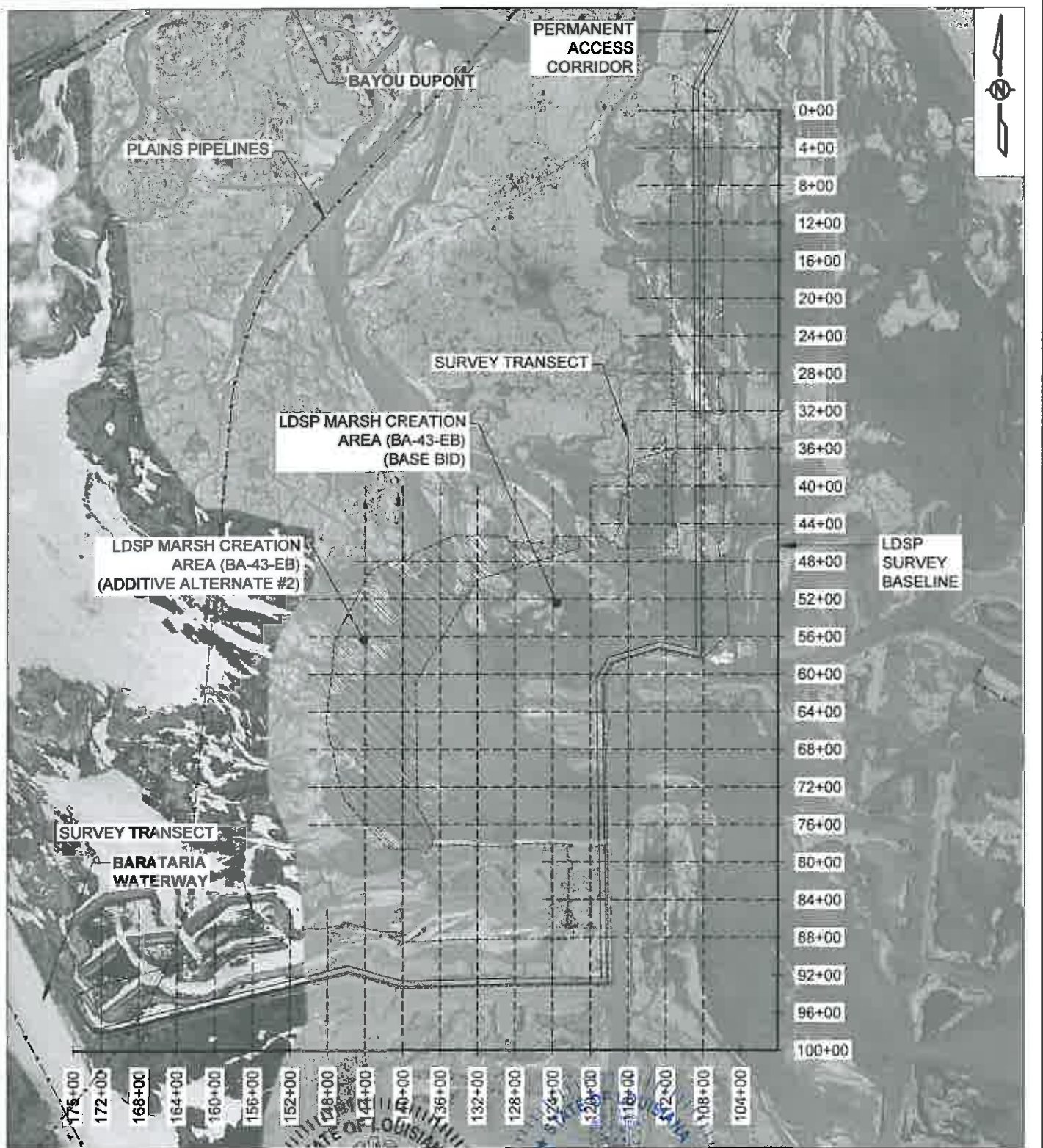
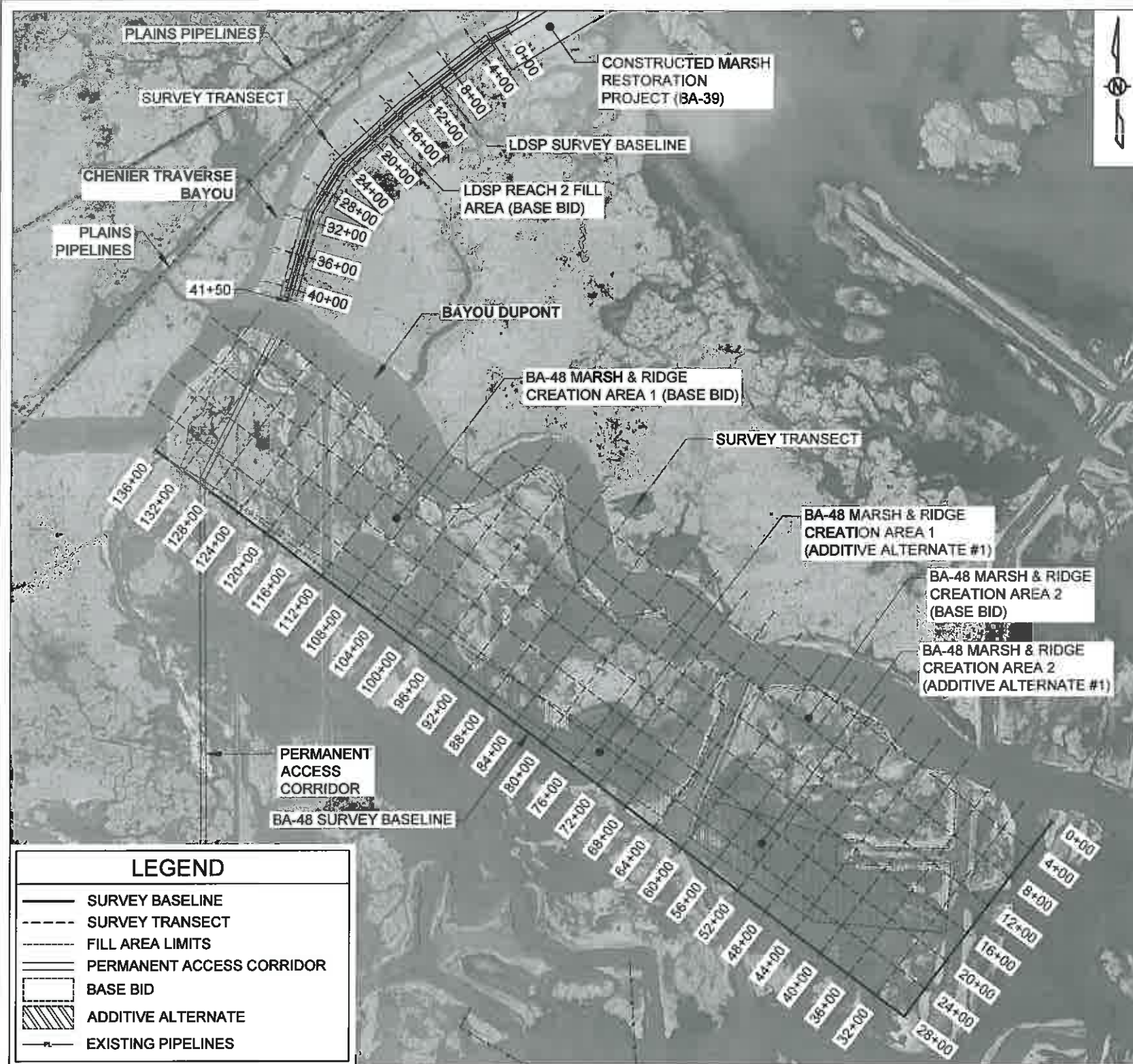
CASING PIPE CAP, MARKER AND SETTLEMENT PLATE DETAILS

DATE: MARCH 8, 2013

SHEET 56 OF 81

DRAWN BY: YC      DESIGNED BY: SA





**LEGEND**

- SURVEY BASELINE
- SURVEY TRANSECT
- FILL AREA LIMITS
- PERMANENT ACCESS CORRIDOR
- BASE BID
- ADDITIVE ALTERNATE
- EXISTING PIPELINES

- NOTES:**
1. THE CONTRACTOR SHALL SURVEY FILL AREAS AT THE LOCATIONS SHOWN AS PER SECTION TS-3.
  2. LDSP FILL AREA SURVEYS WERE PERFORMED IN AUGUST 2011 BY TBS. BA-48 FILL AREA SURVEYS WERE PERFORMED IN OCTOBER 2008 BY PBS&J. SURVEY SECTIONS POINT FILES ARE AVAILABLE UPON REQUEST.
  3. SEE SHEETS 58 TO 76 FOR FILL AREA SECTIONS.
  4. BA-48 FILL SECTIONS 4+00 THROUGH 24+00 SHALL BE TAKEN DURING CONSTRUCTION AS PER TS-3.



| REV. | DATE | DESCRIPTION | BY |
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**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
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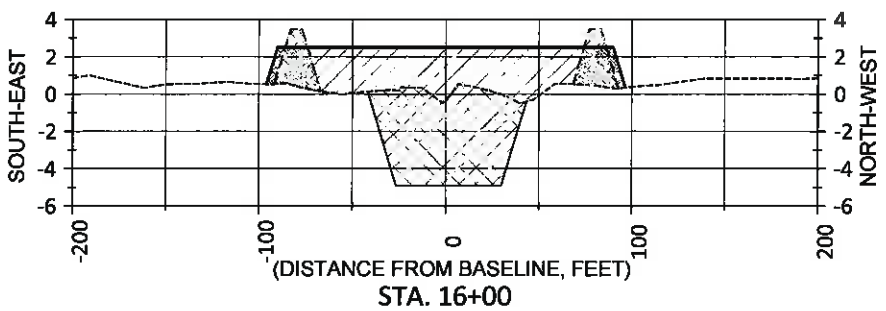
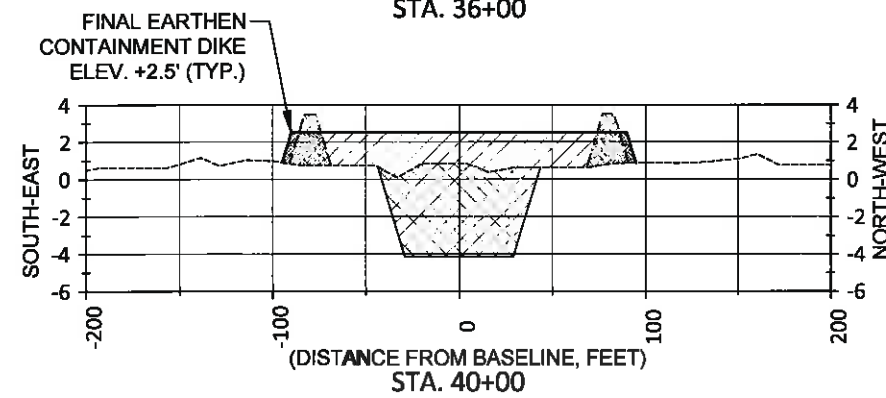
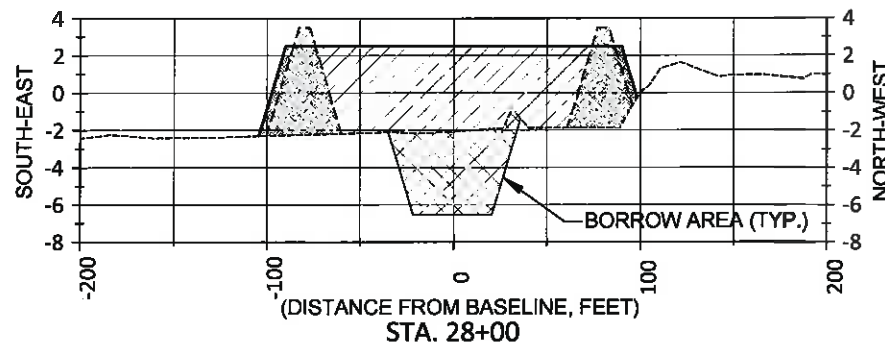
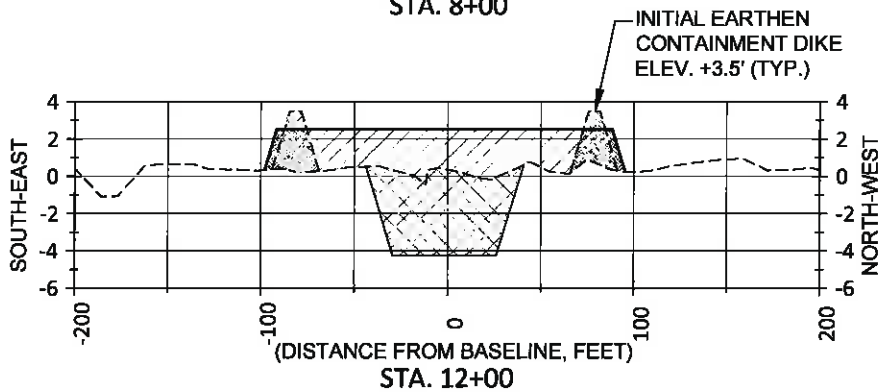
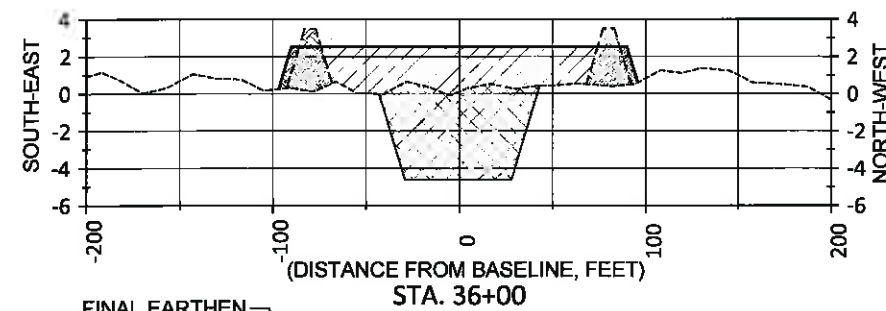
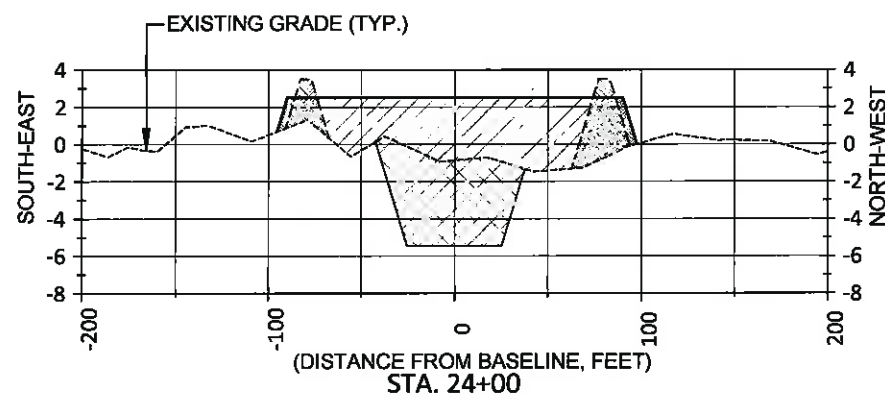
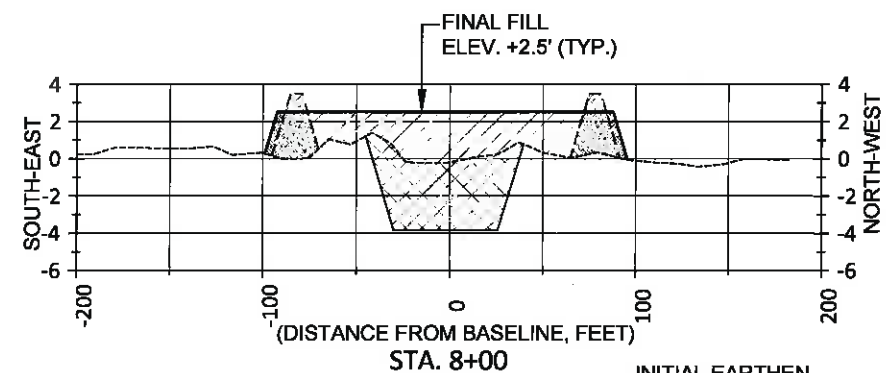
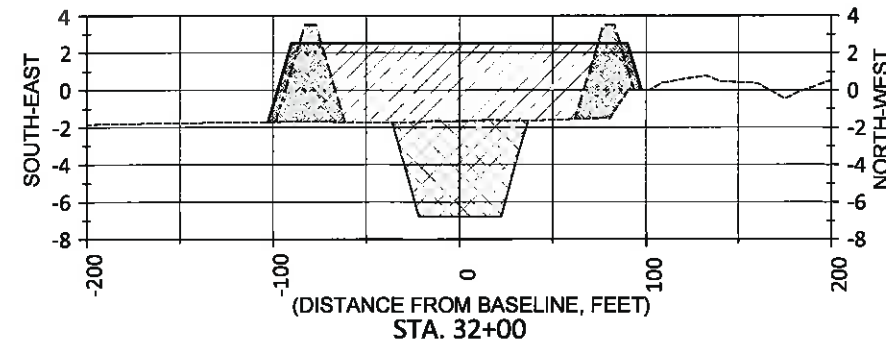
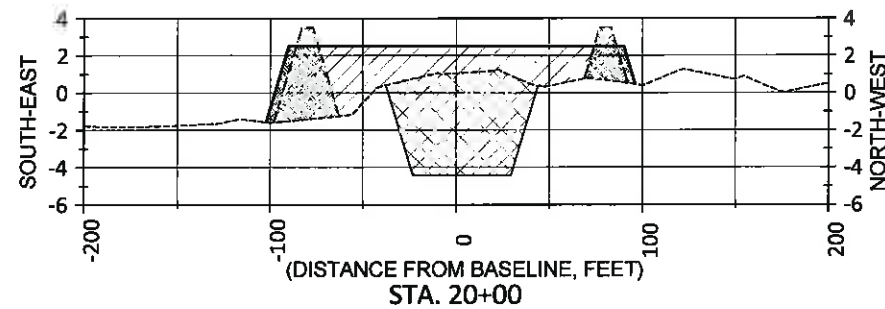
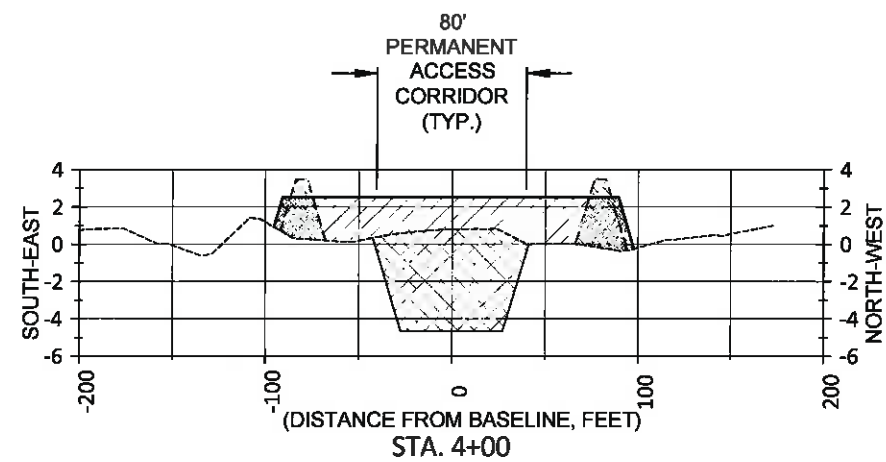
DRAWN BY: YC      DESIGNED BY: SA & RJ

**JONATHAN HIRD**  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

**FINAL BID SET**

FILL AREA SECTIONS LAYOUT  
 DATE: MARCH 8, 2013  
 SHEET 57 OF 81



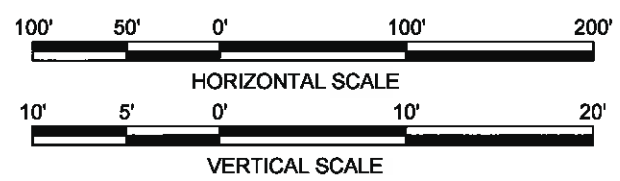
**FINAL BID SET**

| LEGEND |                           |
|--------|---------------------------|
|        | EXISTING GRADE            |
|        | INITIAL FILL              |
|        | FINISHED GRADE            |
|        | EARTHEN CONTAINMENT DIKE  |
|        | BORROW AREA               |
|        | CORRIDOR & MARSH CREATION |

NOTES:

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING  
 05/12/2013



| REV. | DATE | DESCRIPTION | BY |
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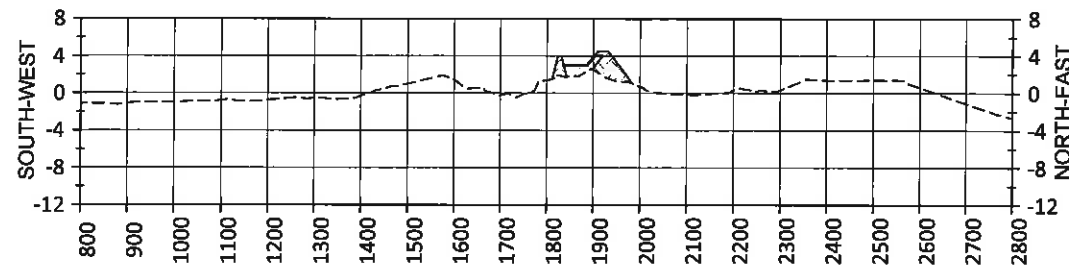
MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

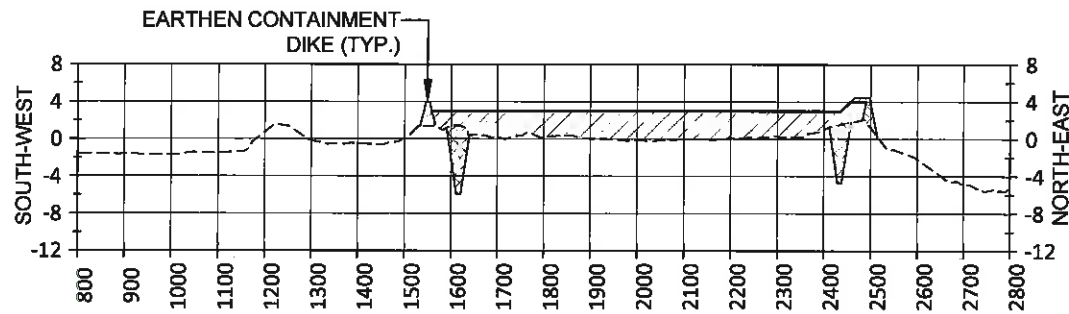
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: LDSP REACH 2 FILL AREA SECTIONS  
 DATE: MARCH 8, 2013  
 SHEET 58 OF 81

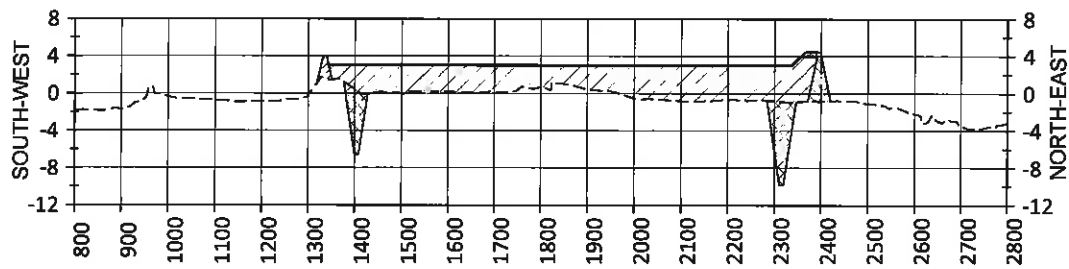
DRAWN BY: YC      DESIGNED BY: SA



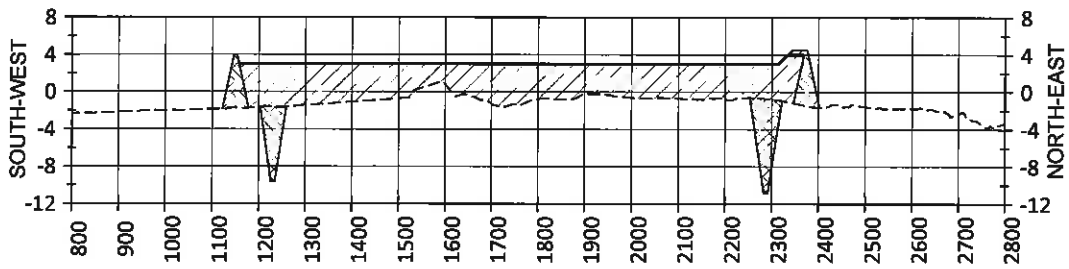
STA. 36+00 (DISTANCE FROM BASELINE, FEET)



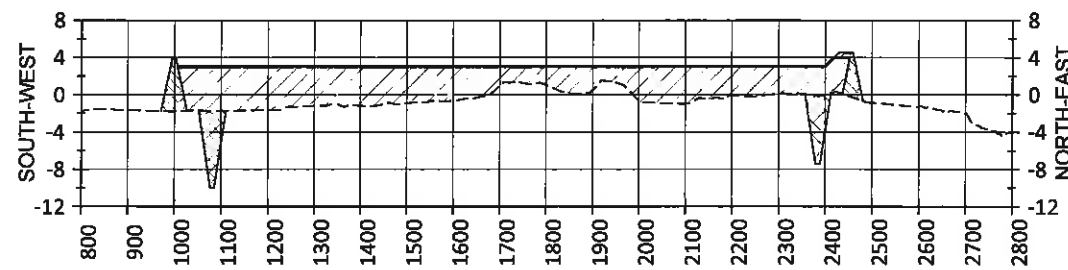
STA. 40+00 (DISTANCE FROM BASELINE, FEET)



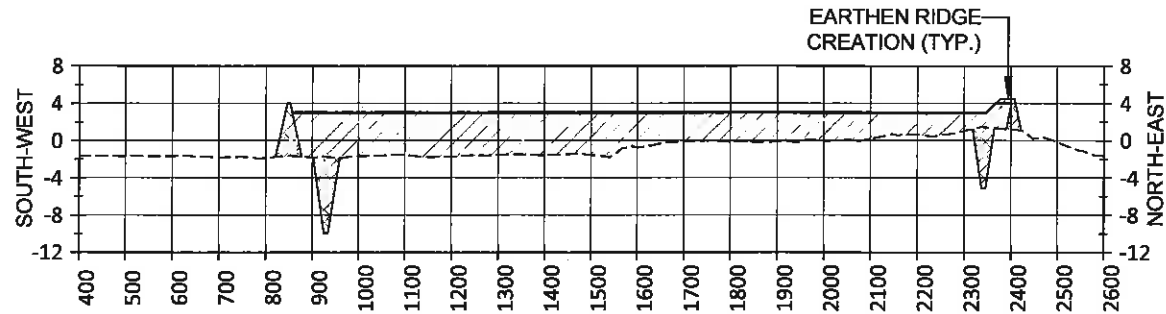
STA. 44+00 (DISTANCE FROM BASELINE, FEET)



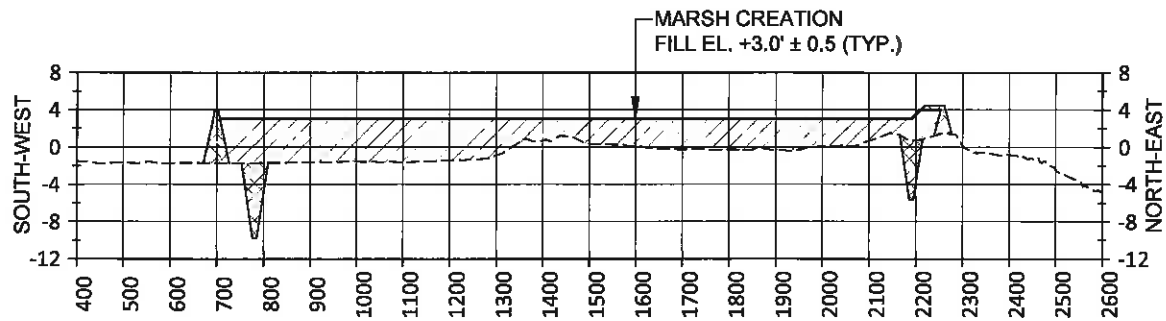
STA. 48+00 (DISTANCE FROM BASELINE, FEET)



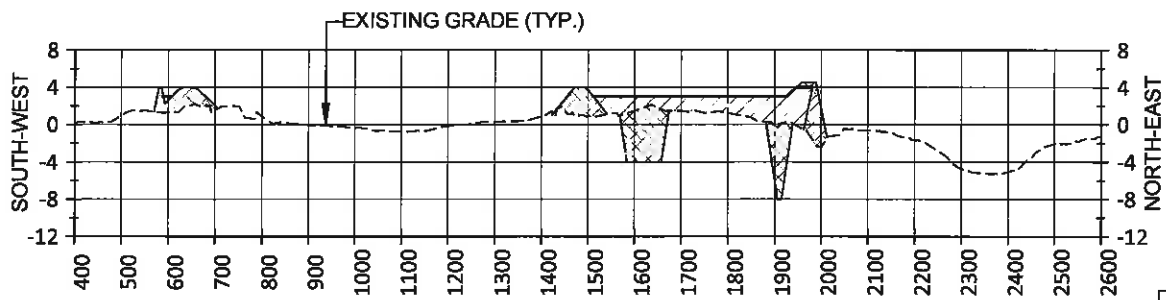
STA. 52+00 (DISTANCE FROM BASELINE, FEET)



STA. 56+00 (DISTANCE FROM BASELINE, FEET)



STA. 60+00 (DISTANCE FROM BASELINE, FEET)



STA. 64+00 (DISTANCE FROM BASELINE, FEET)

NOTES:

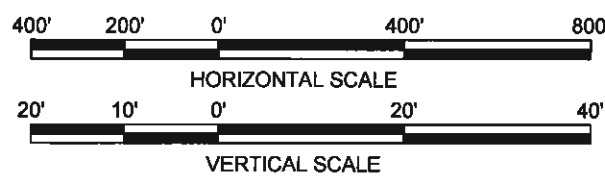
1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.



**FINAL BID SET**

**LEGEND**

|  |   |
|--|---|
|  | EXISTING GRADE                              |
|  | FINISHED GRADE                              |
|  | EARTHEN CONTAINMENT DIKE/<br>RIDGE CREATION |
|  | BORROW AREA                                 |
|  | MARSH CREATION                              |



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70826  
 225-336-2075

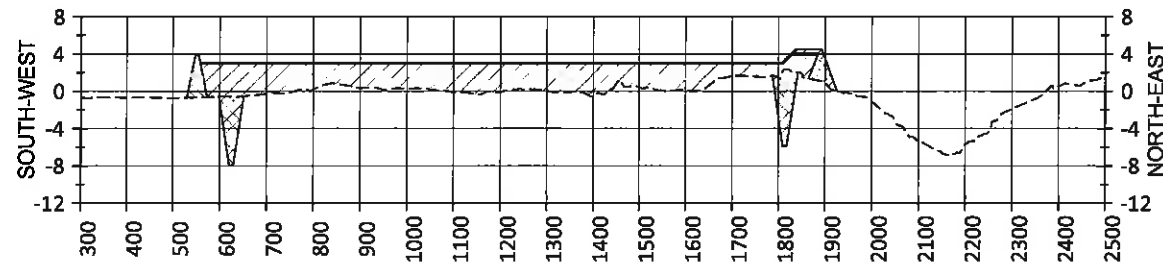
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

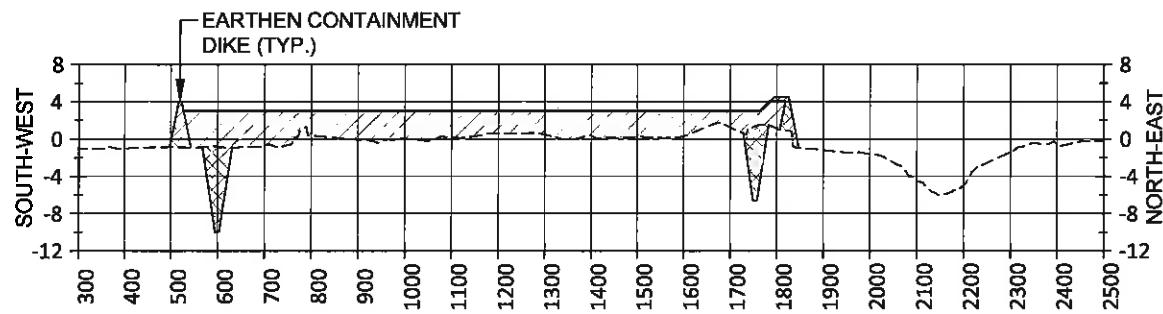
BASE BID: BA-48 FILL AREA SECTIONS (SHEET 1 OF 4)  
 DATE: MARCH 8, 2013  
 SHEET 59 OF 81

DRAWN BY: YC

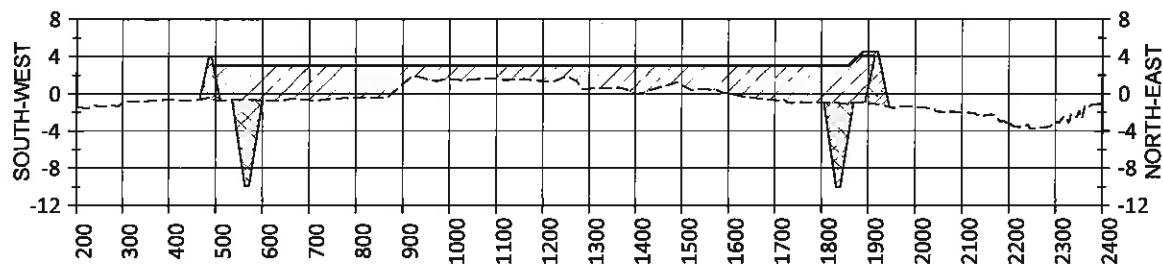
DESIGNED BY: RJ



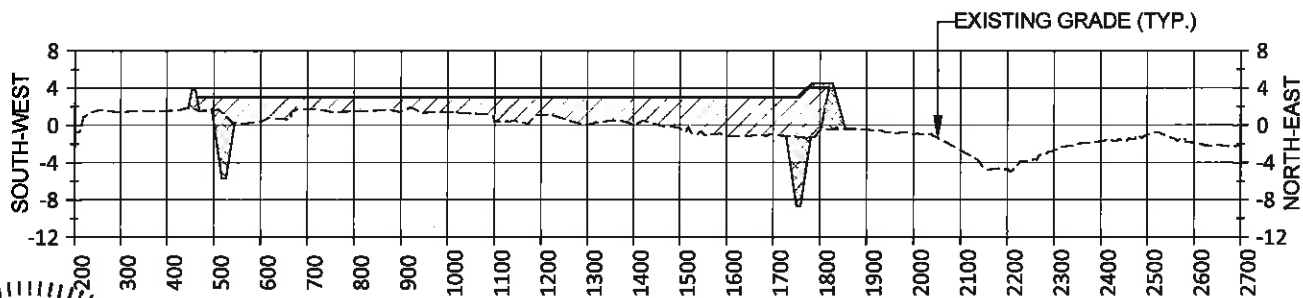
STA. 68+00 (DISTANCE FROM BASELINE, FEET)



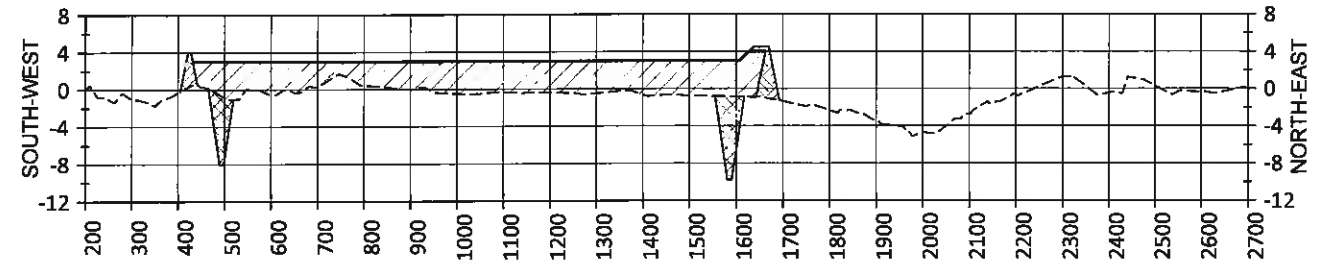
STA. 72+00 (DISTANCE FROM BASELINE, FEET)



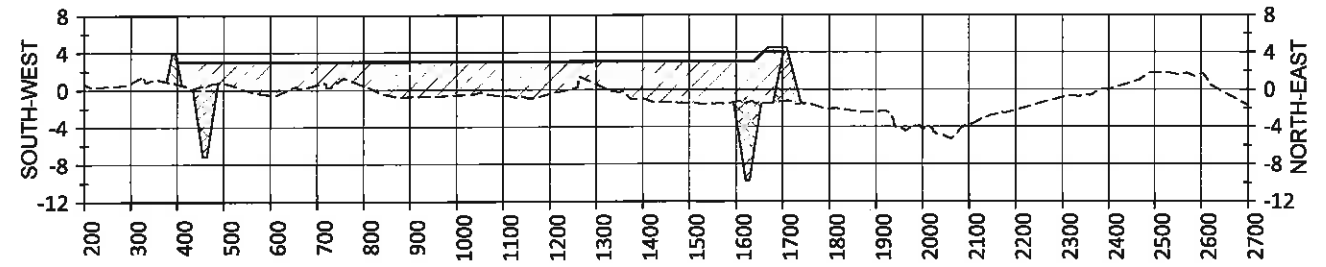
STA. 76+00 (DISTANCE FROM BASELINE, FEET)



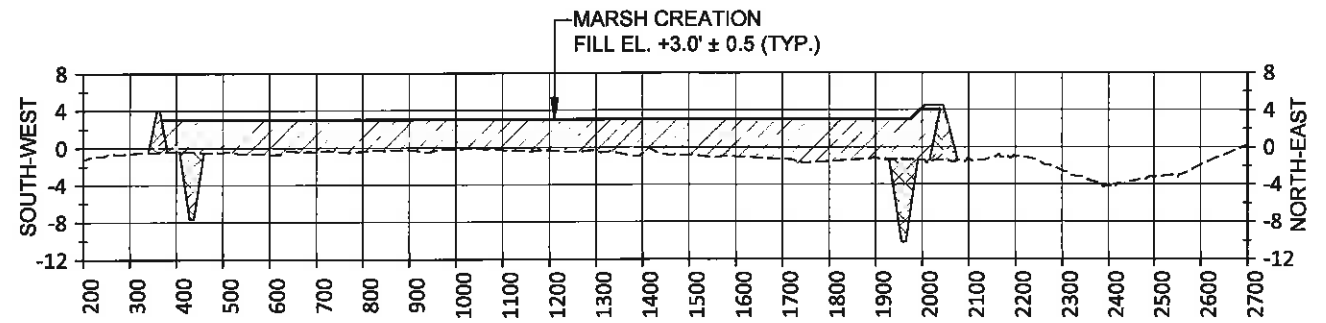
STA. 80+00 (DISTANCE FROM BASELINE, FEET)



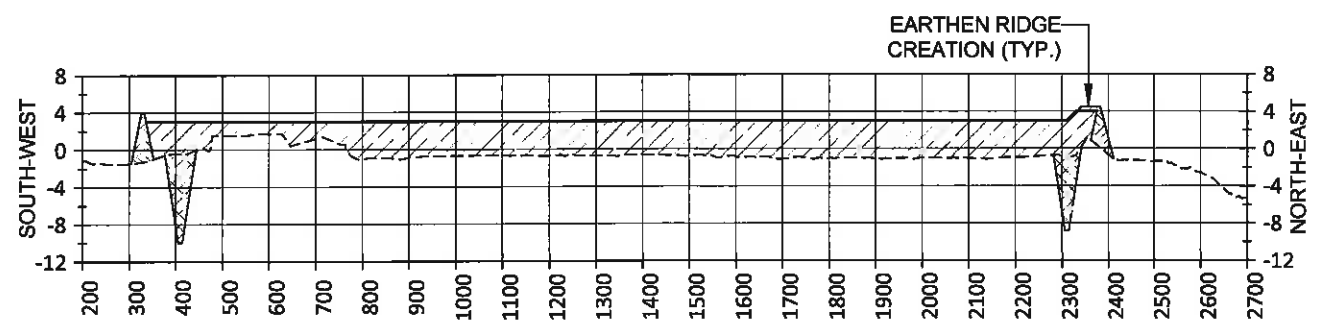
STA. 84+00 (DISTANCE FROM BASELINE, FEET)



STA. 88+00 (DISTANCE FROM BASELINE, FEET)



STA. 92+00 (DISTANCE FROM BASELINE, FEET)



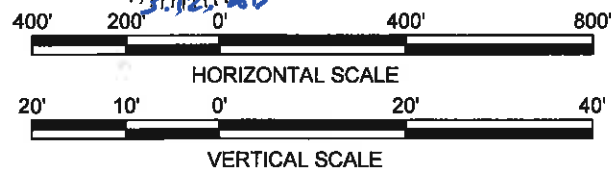
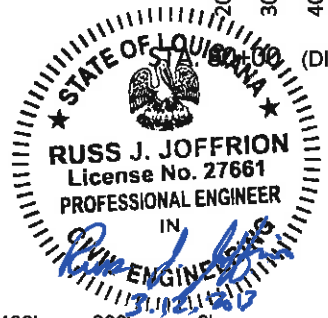
STA. 96+00 (DISTANCE FROM BASELINE, FEET)

| LEGEND |  |
|--------|--|
| ---    | EXISTING GRADE                           |
| —      | FINISHED GRADE                           |
| ▨      | EARTHEN CONTAINMENT DIKE/ RIDGE CREATION |
| ⊠      | BORROW AREA                              |
| ▩      | MARSH CREATION                           |

NOTES:

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: RJ

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

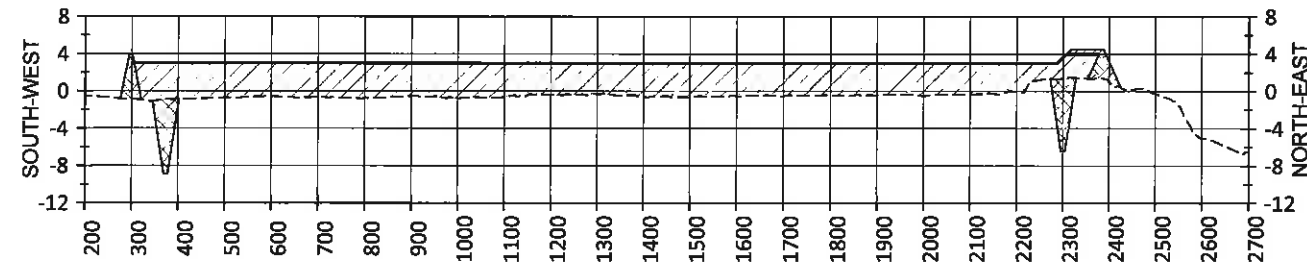
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

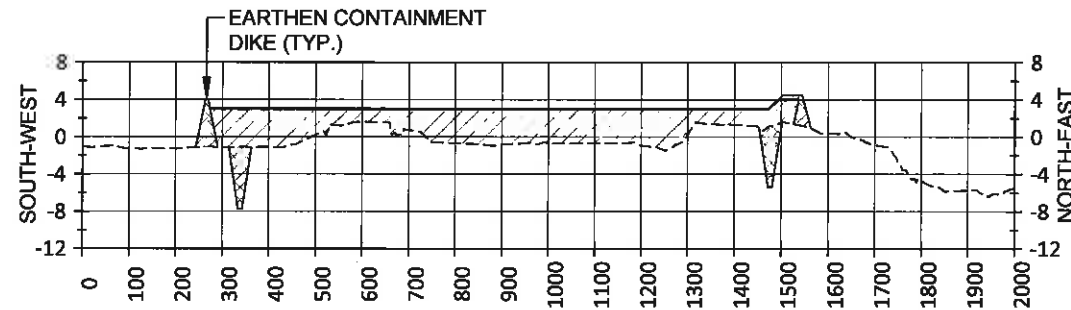
BASE BID: BA-48 FILL AREA SECTIONS (SHEET 2 OF 4)

DATE: MARCH 8, 2013

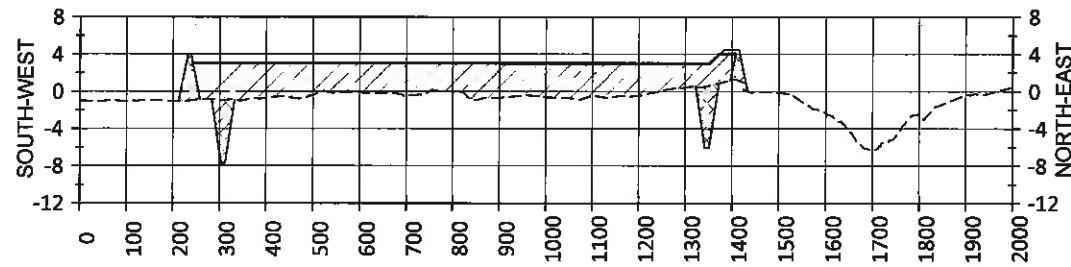
SHEET 60 OF 81



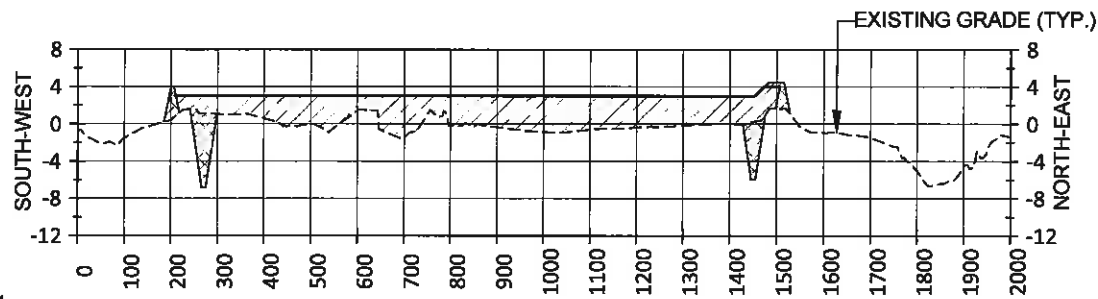
STA. 100+00 (DISTANCE FROM BASELINE, FEET)



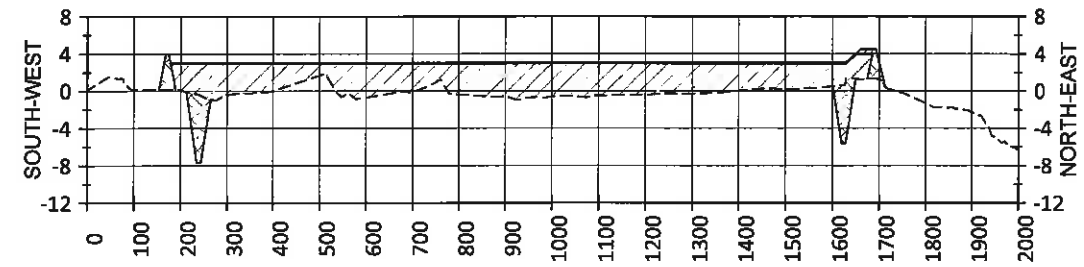
STA. 104+00 (DISTANCE FROM BASELINE, FEET)



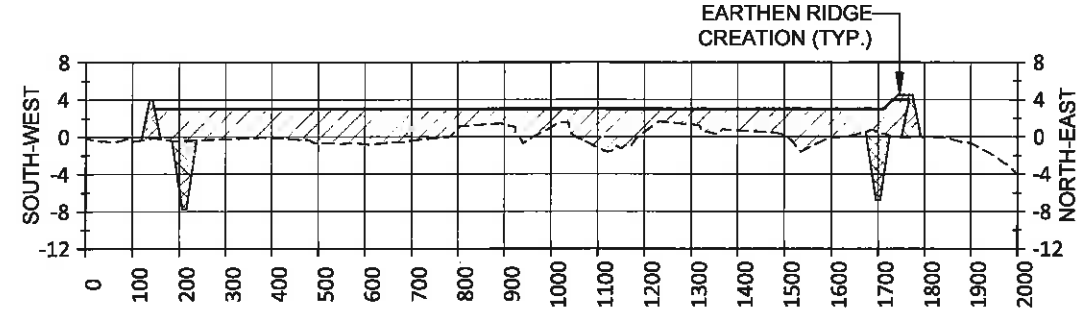
STA. 108+00 (DISTANCE FROM BASELINE, FEET)



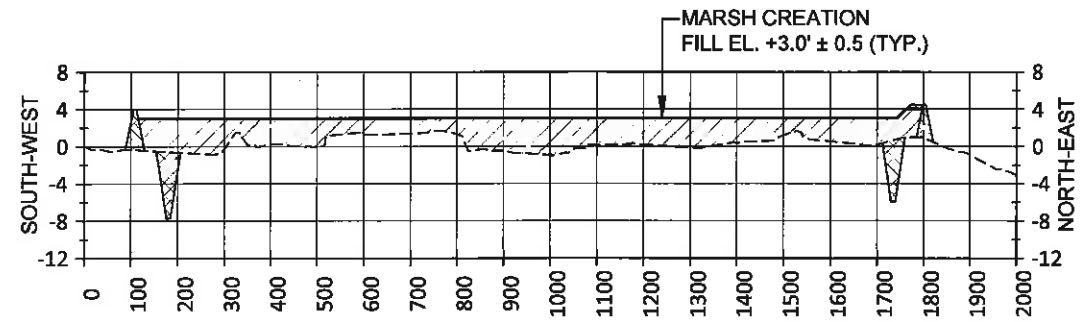
STA. 112+00 (DISTANCE FROM BASELINE, FEET)



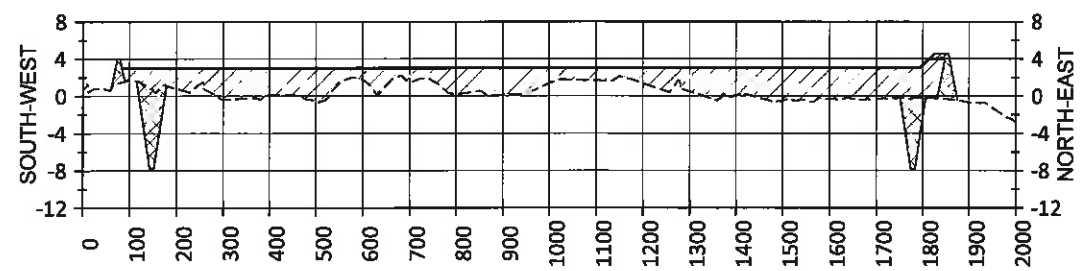
STA. 116+00 (DISTANCE FROM BASELINE, FEET)



STA. 120+00 (DISTANCE FROM BASELINE, FEET)



STA. 124+00 (DISTANCE FROM BASELINE, FEET)



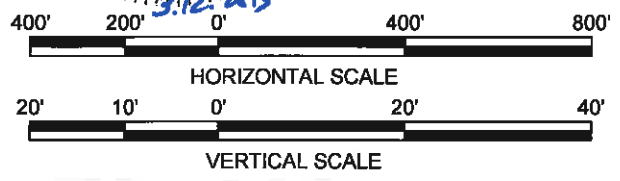
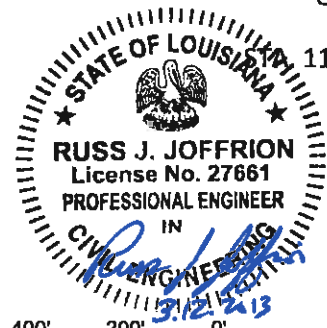
STA. 128+00 (DISTANCE FROM BASELINE, FEET)

| LEGEND                 |   |
|------------------------|---|
| ---                    | EXISTING GRADE                              |
| —                      | FINISHED GRADE                              |
| [Hatched Box]          | EARTHEN CONTAINMENT DIKE/<br>RIDGE CREATION |
| [Cross-hatched Box]    | BORROW AREA                                 |
| [Diagonal-hatched Box] | MARSH CREATION                              |

NOTES:

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

**FINAL BID SET**



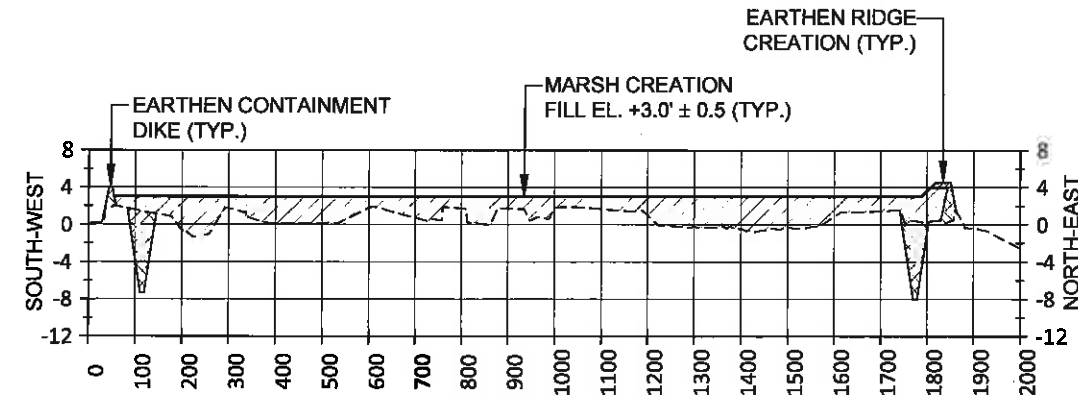
| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

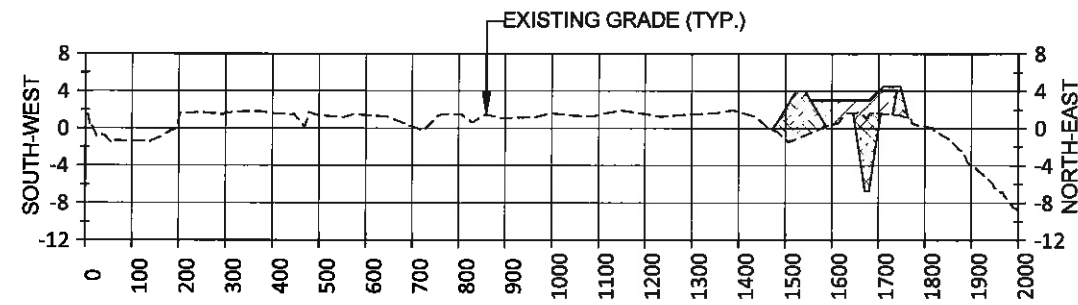
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: BA-48 FILL AREA SECTIONS (SHEET 3 OF 4)  
 DATE: MARCH 8, 2013  
 SHEET 61 OF 81



STA. 132+00 (DISTANCE FROM BASELINE, FEET)



STA. 136+00 (DISTANCE FROM BASELINE, FEET)

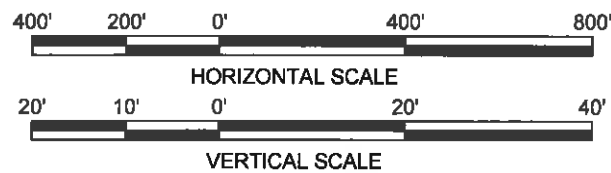


| LEGEND |   |
|--------|---|
| -----  | EXISTING GRADE                              |
| -----  | FINISHED GRADE                              |
|        | EARTHEN CONTAINMENT DIKE/<br>RIDGE CREATION |
|        | BORROW AREA                                 |
|        | MARSH CREATION                              |

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

BASE BID: BA-48 FILL AREA SECTIONS (SHEET 4 OF 4)

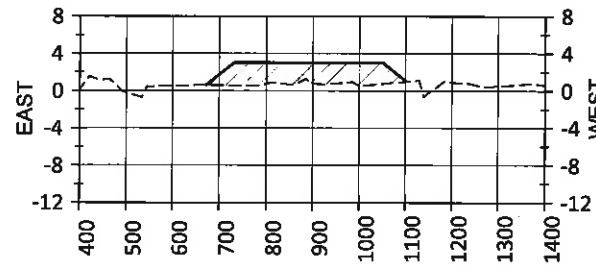
DRAWN BY: YC

DESIGNED BY: RJ

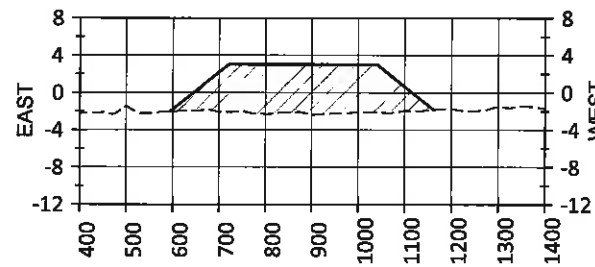
APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013

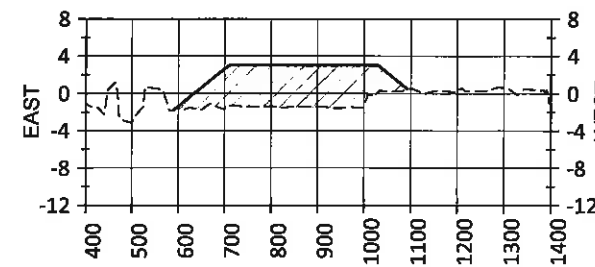
SHEET 62 OF 81



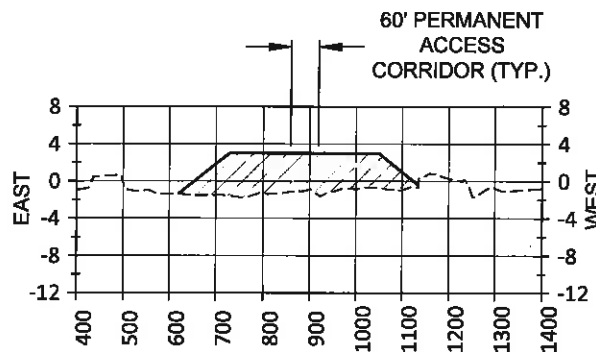
STA. 0+00 (DISTANCE FROM BASELINE, FEET)



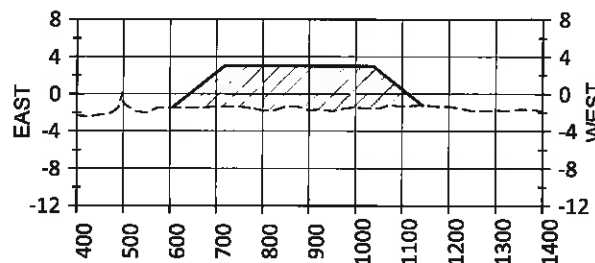
STA. 16+00 (DISTANCE FROM BASELINE, FEET)



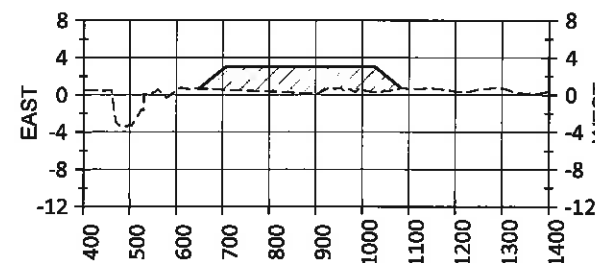
STA. 32+00 (DISTANCE FROM BASELINE, FEET)



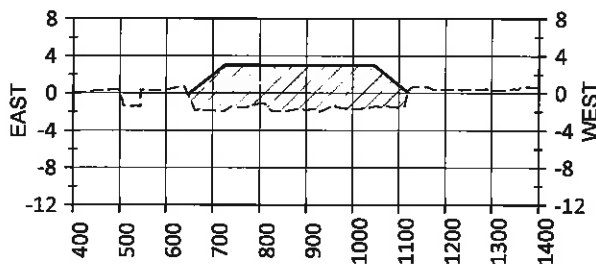
STA. 4+00 (DISTANCE FROM BASELINE, FEET)



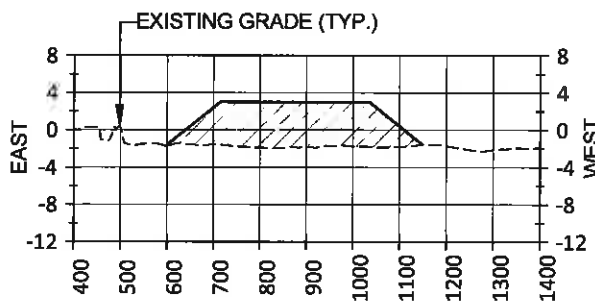
STA. 20+00 (DISTANCE FROM BASELINE, FEET)



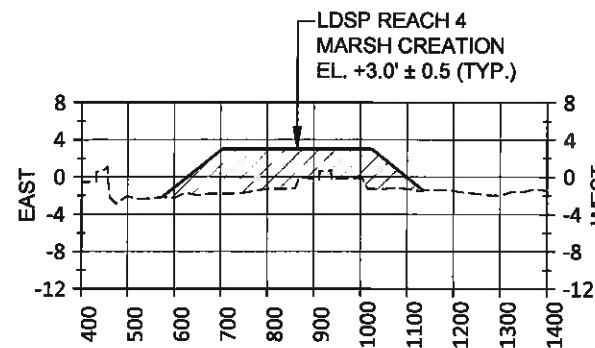
STA. 36+00 (DISTANCE FROM BASELINE, FEET)



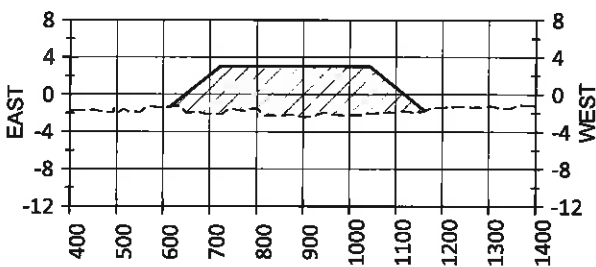
STA. 8+00 (DISTANCE FROM BASELINE, FEET)



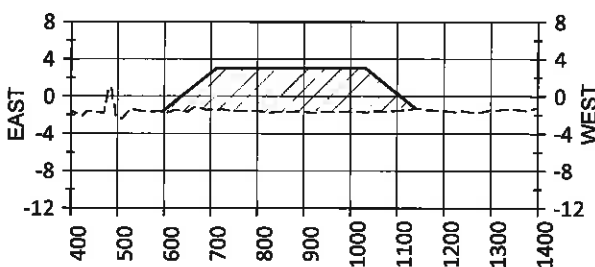
STA. 24+00 (DISTANCE FROM BASELINE, FEET)



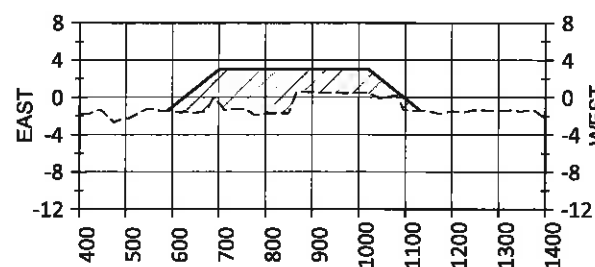
STA. 40+00 (DISTANCE FROM BASELINE, FEET)



STA. 12+00 (DISTANCE FROM BASELINE, FEET)



STA. 28+00 (DISTANCE FROM BASELINE, FEET)



STA. 44+00 (DISTANCE FROM BASELINE, FEET)

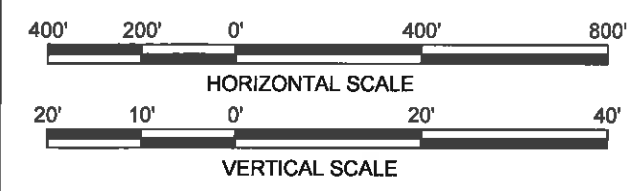


**FINAL BID SET**

**NOTES:**

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                           |
|--------|---------------------------|
| ---    | EXISTING GRADE            |
| —      | FINISHED GRADE            |
| ▨      | CORRIDOR & MARSH CREATION |



| REV. | DATE | DESCRIPTION | BY |
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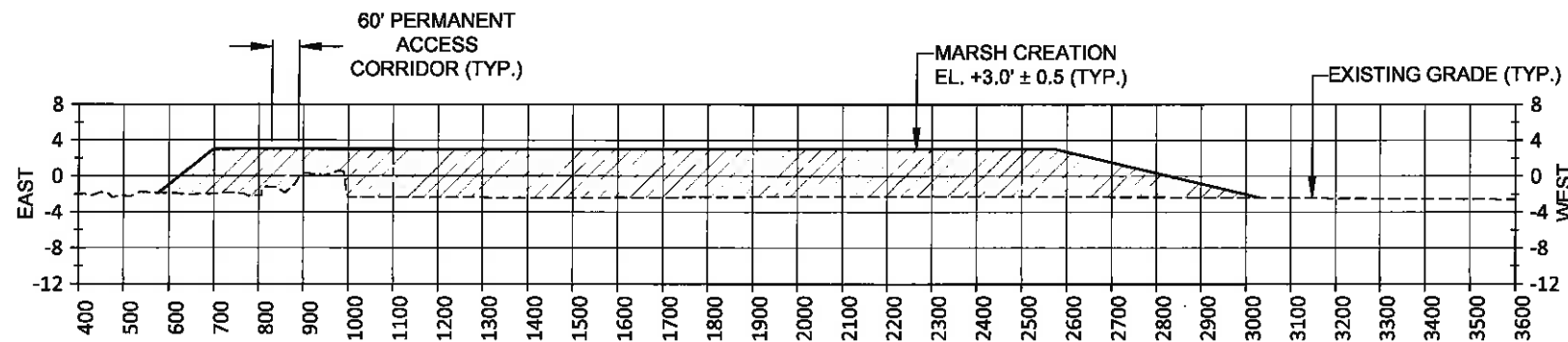
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

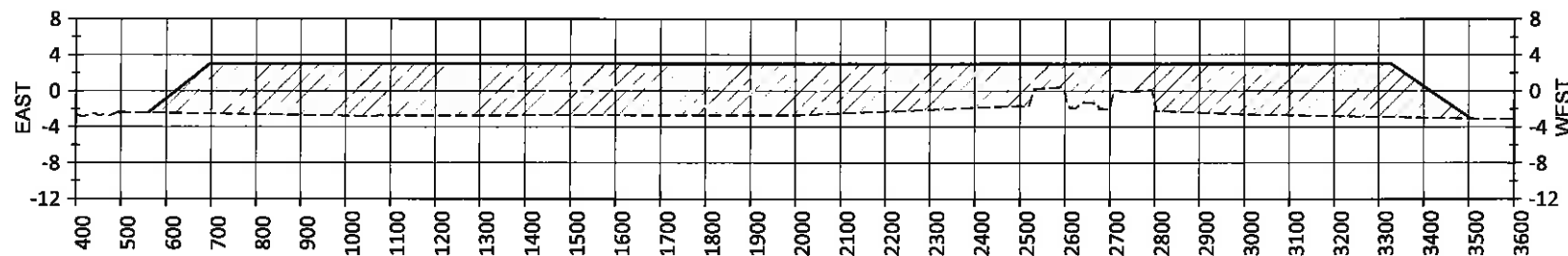
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: LDSP FILL AREA SECTIONS (SHEET 1 OF 6)  
 DATE: MARCH 8, 2013  
 SHEET 63 OF 81

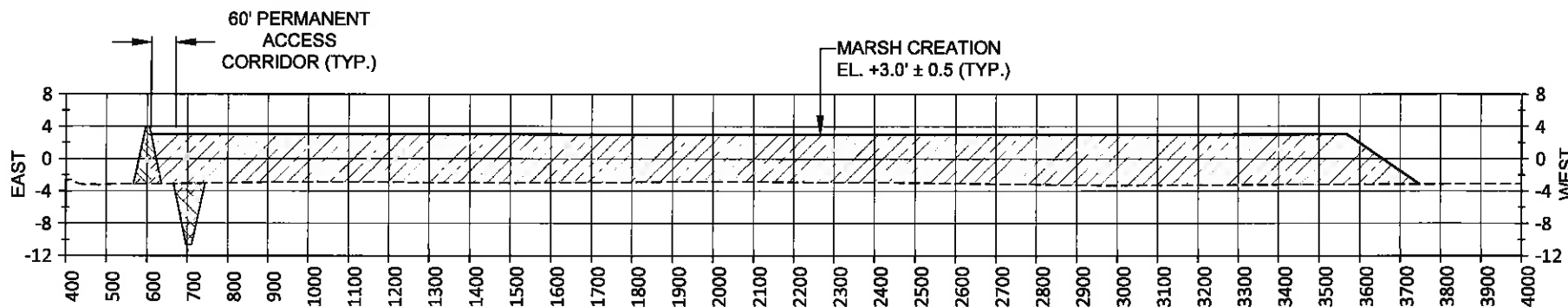
DRAWN BY: YC      DESIGNED BY: SA



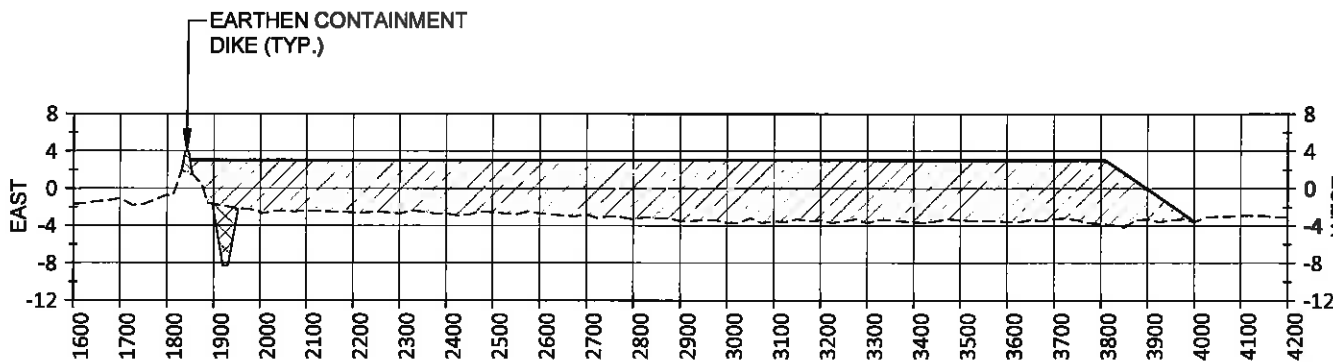
STA. 48+00 (DISTANCE FROM BASELINE, FEET)



STA. 52+00 (DISTANCE FROM BASELINE, FEET)



STA. 56+00 (DISTANCE FROM BASELINE, FEET)



STA. 60+00 (DISTANCE FROM BASELINE, FEET)

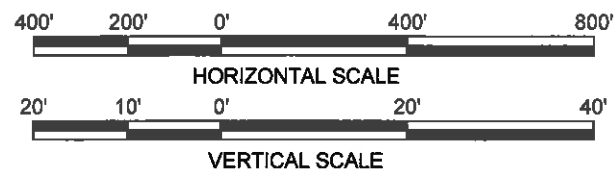


NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                           |
|--------|---------------------------|
| ---    | EXISTING GRADE            |
| —      | FINISHED GRADE            |
|        | EARTHEN CONTAINMENT DIKE  |
|        | BORROW AREA               |
|        | CORRIDOR & MARSH CREATION |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |
|      |      |             |    |
|      |      |             |    |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

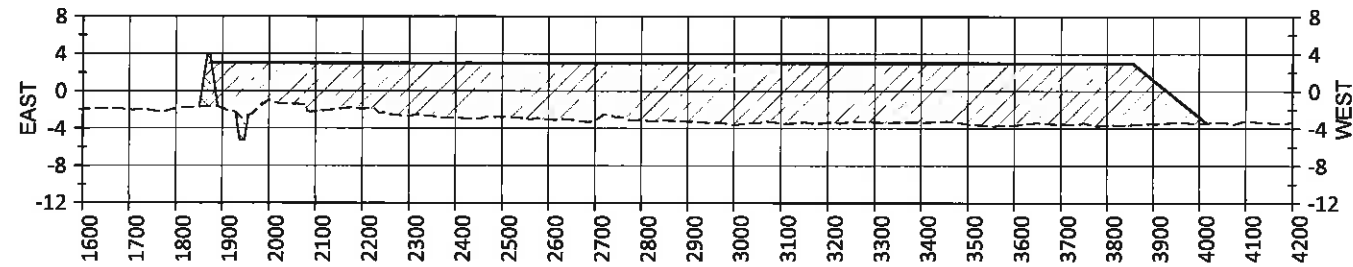
APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: LDSP FILL AREA SECTIONS (SHEET 2 OF 6)

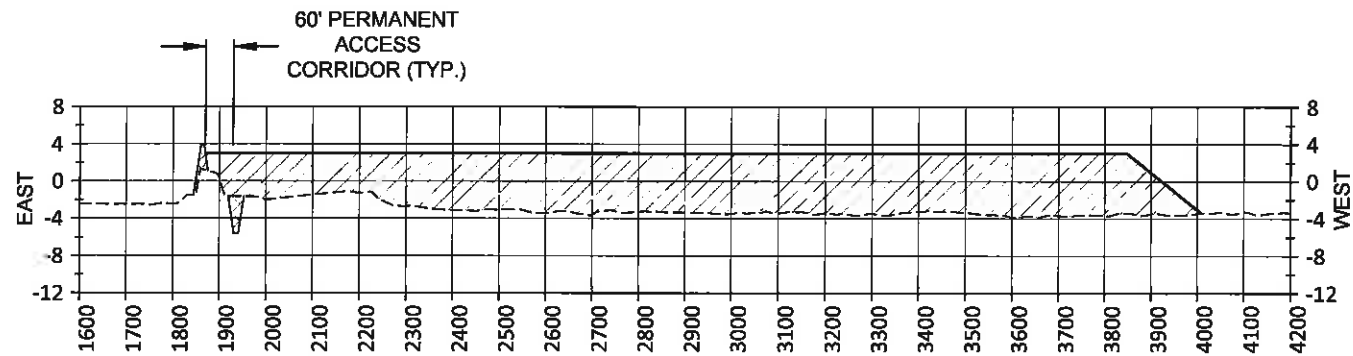
DATE: MARCH 8, 2013

SHEET 64 OF 81

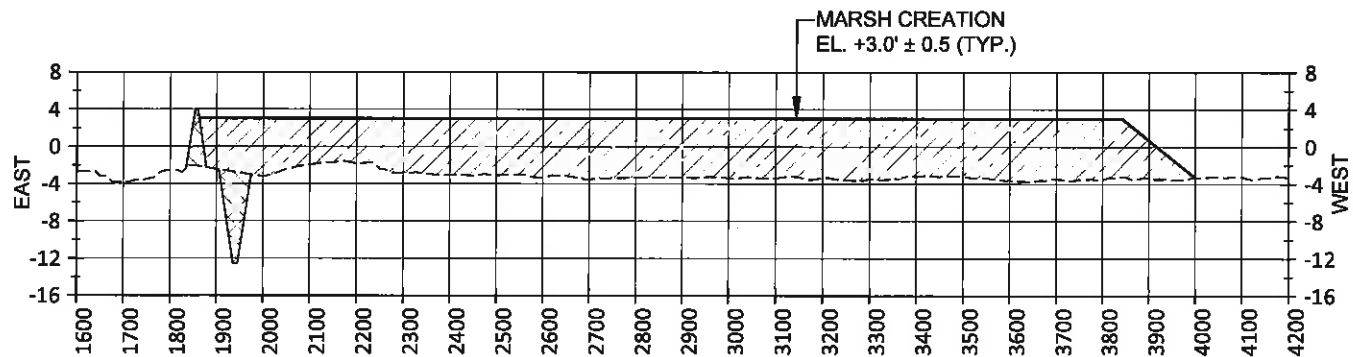




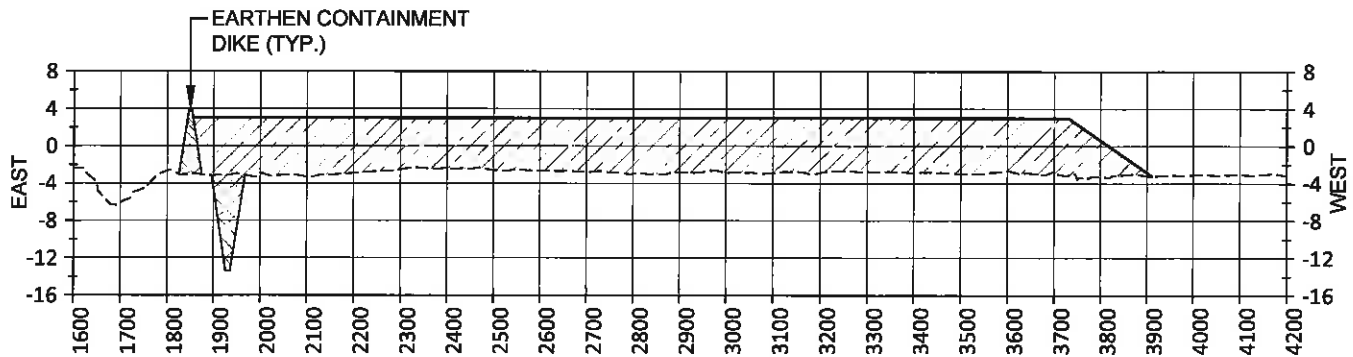
STA. 64+00 (DISTANCE FROM BASELINE, FEET)



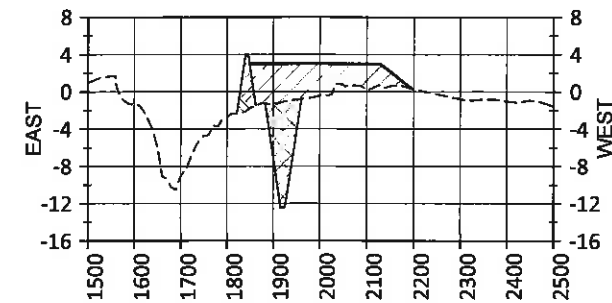
STA. 68+00 (DISTANCE FROM BASELINE, FEET)



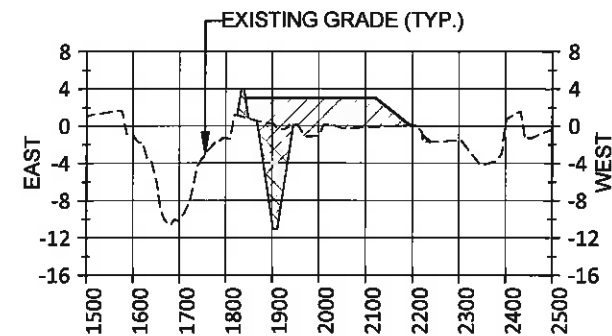
STA. 72+00 (DISTANCE FROM BASELINE, FEET)



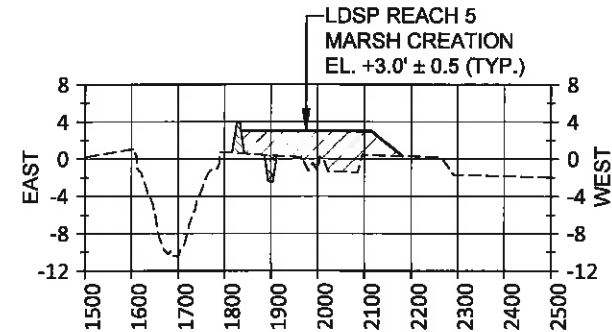
STA. 76+00 (DISTANCE FROM BASELINE, FEET)



STA. 80+00 (DISTANCE FROM BASELINE, FEET)



STA. 84+00 (DISTANCE FROM BASELINE, FEET)



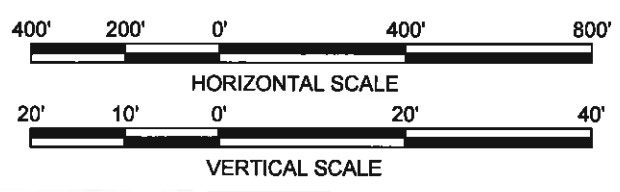
STA. 88+00 (DISTANCE FROM BASELINE, FEET)

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

- NOTES:
- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                           |
|--------|---------------------------|
|        | EXISTING GRADE            |
|        | FINISHED GRADE            |
|        | EARTHEN CONTAINMENT DIKE  |
|        | BORROW AREA               |
|        | CORRIDOR & MARSH CREATION |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
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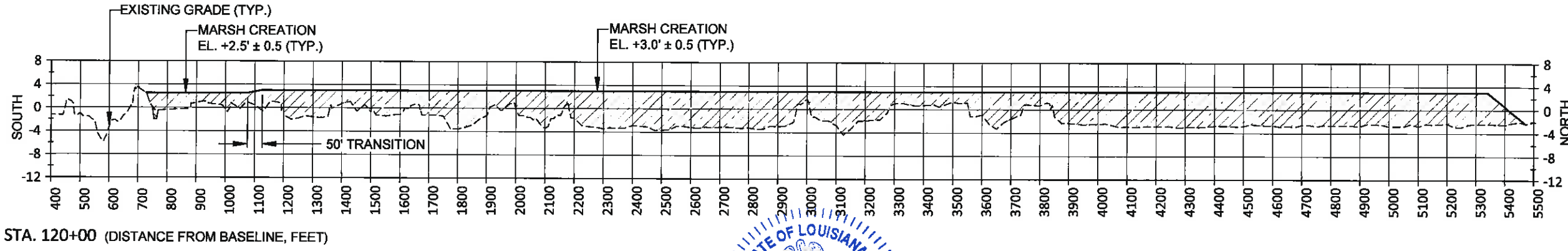
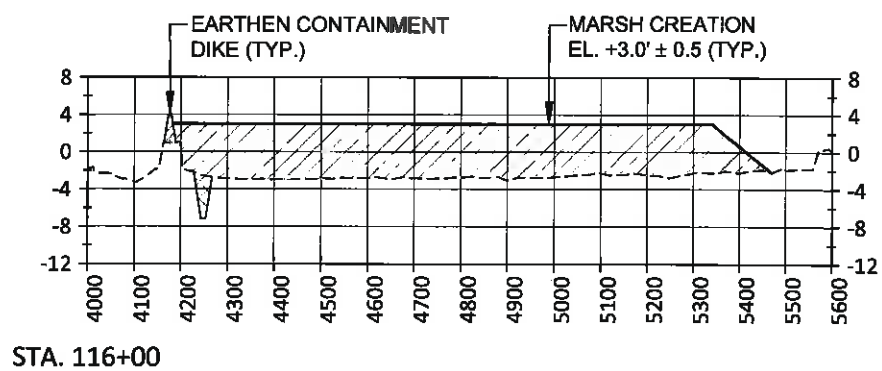
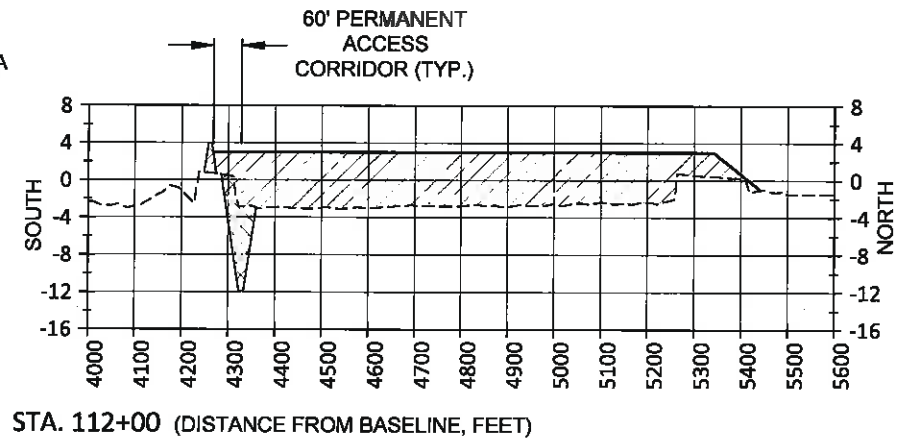
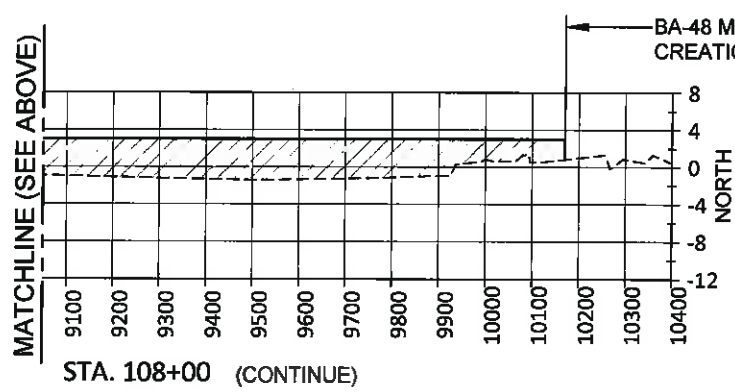
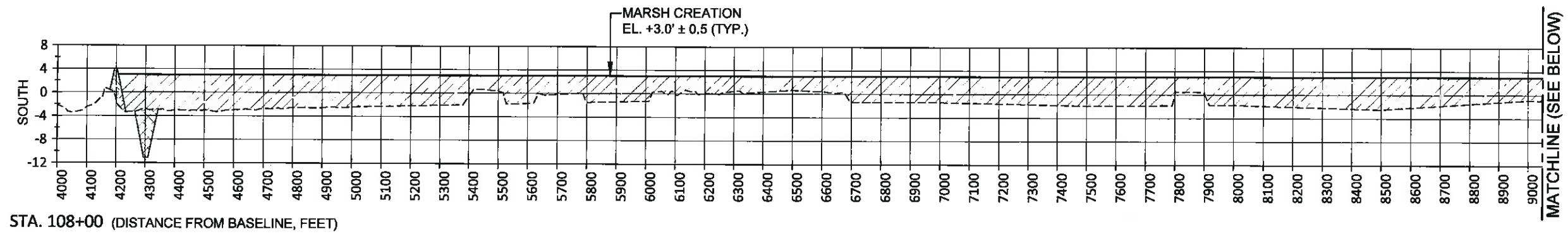
MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

BASE BID: LDSP FILL AREA SECTIONS (SHEET 3 OF 6)  
 DATE: MARCH 8, 2013  
 SHEET 65 OF 81

DRAWN BY: YC      DESIGNED BY: SA

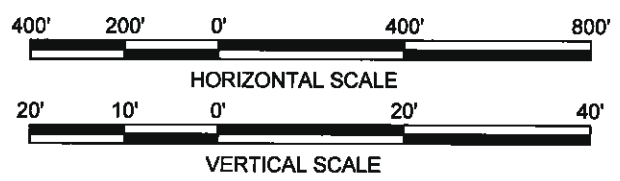


STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

**FINAL BID SET**

- NOTES:
- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                           |
|--------|---------------------------|
| ---    | EXISTING GRADE            |
| —      | FINISHED GRADE            |
| ▨      | EARTHEN CONTAINMENT DIKE  |
| ▩      | BORROW AREA               |
| ▧      | CORRIDOR & MARSH CREATION |



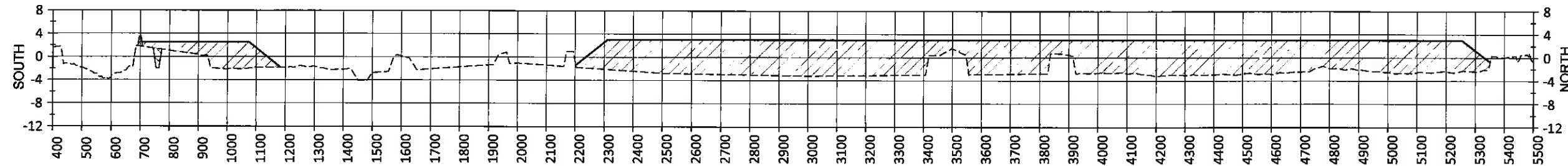
| REV. | DATE | DESCRIPTION | BY |
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MOFFATT & NICHOL  
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 301 MAIN STREET, SUITE 800  
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 225-338-2075

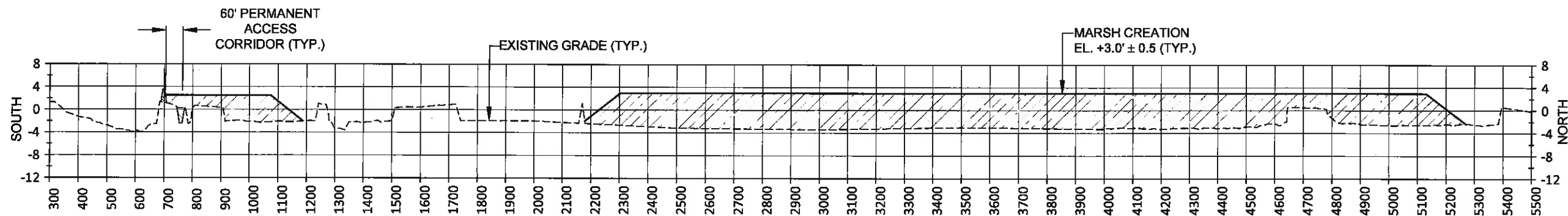
COASTAL PROTECTION AND RESTORATION AUTHORITY  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 DRAWN BY: YC  
 DESIGNED BY: SA  
 APPROVED BY: MAURY CHATELLIER, P.E.

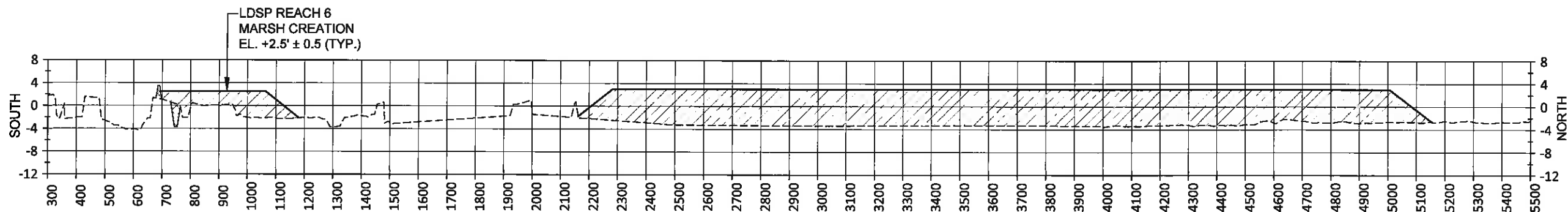
BASE BID: LDSP FILL AREA SECTIONS (SHEET 4 OF 6)  
 DATE: MARCH 8, 2013  
 SHEET 66 OF 81



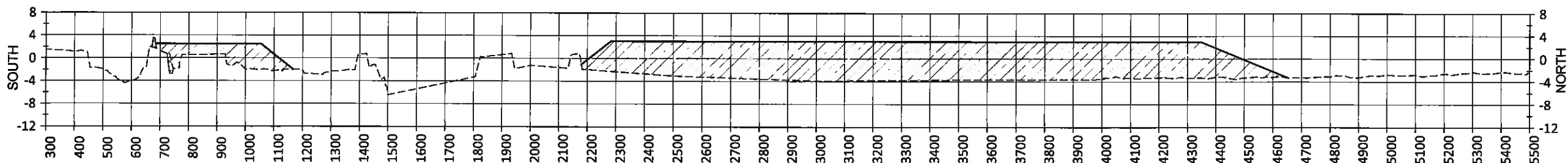
STA. 124+00 (DISTANCE FROM BASELINE, FEET)



STA. 128+00 (DISTANCE FROM BASELINE, FEET)



STA. 132+00 (DISTANCE FROM BASELINE, FEET)



STA. 136+00 (DISTANCE FROM BASELINE, FEET)

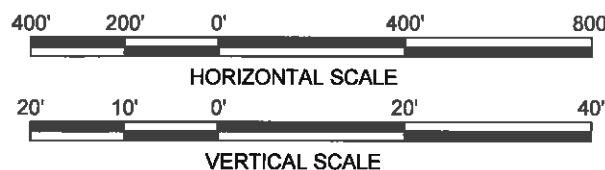


NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                             |
|--------|-----------------------------|
|        | EXISTING GRADE              |
|        | FINISHED GRADE              |
|        | EARTHEN CONTAINMENT DIKE    |
|        | BORROW AREA                 |
|        | CORRIDOR AND MARSH CREATION |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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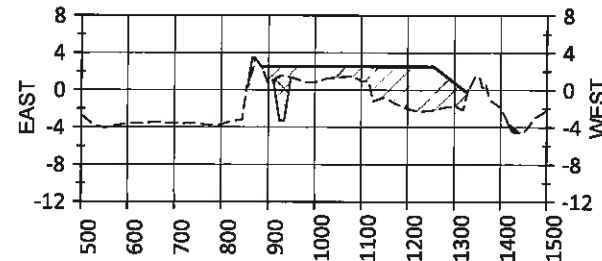
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

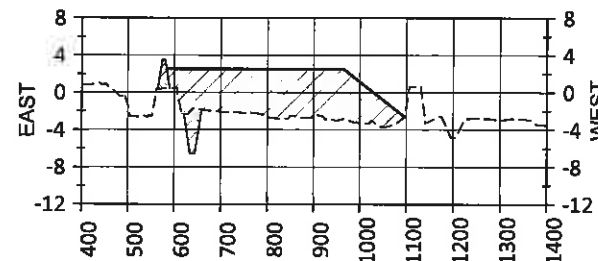
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELIER, P.E.

BASE BID: LDSP FILL AREA SECTIONS (SHEET 5 OF 6)  
 DATE: MARCH 8, 2013  
 SHEET 67 OF 81

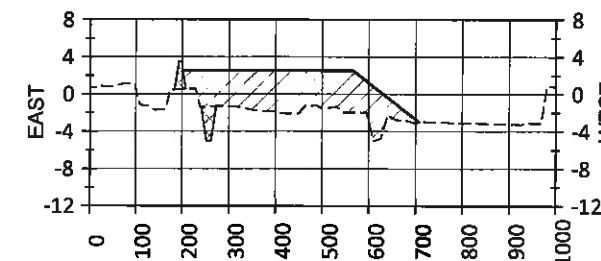
DRAWN BY: YC      DESIGNED BY: SA



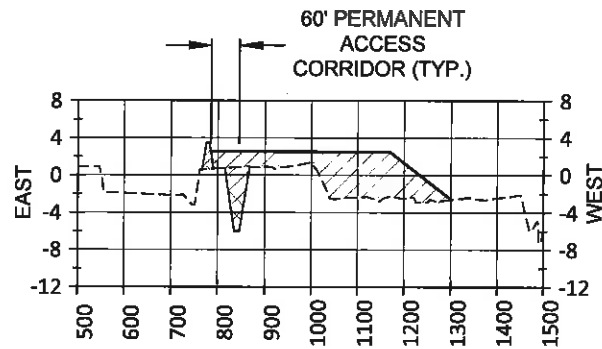
STA. 140+00 (DISTANCE FROM BASELINE, FEET)



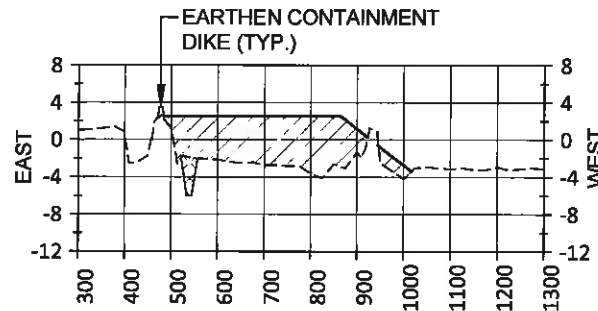
STA. 156+00 (DISTANCE FROM BASELINE, FEET)



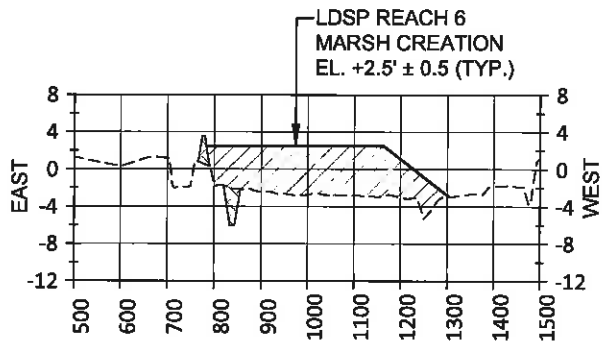
STA. 172+00 (DISTANCE FROM BASELINE, FEET)



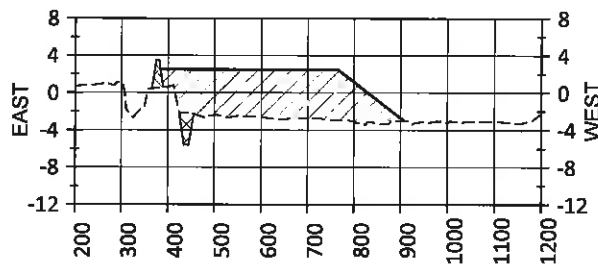
STA. 144+00 (DISTANCE FROM BASELINE, FEET)



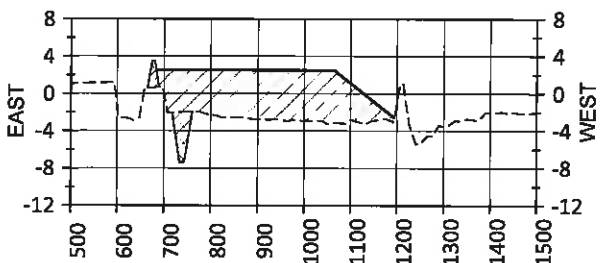
STA. 160+00 (DISTANCE FROM BASELINE, FEET)



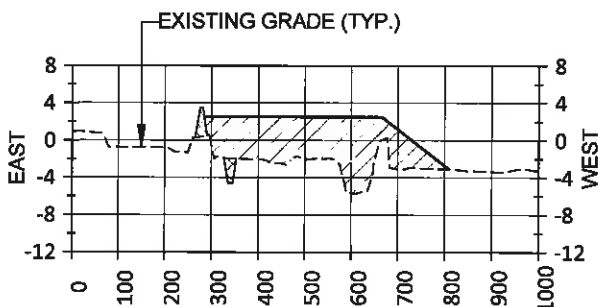
STA. 148+00 (DISTANCE FROM BASELINE, FEET)



STA. 164+00 (DISTANCE FROM BASELINE, FEET)



STA. 152+00 (DISTANCE FROM BASELINE, FEET)



STA. 168+00 (DISTANCE FROM BASELINE, FEET)

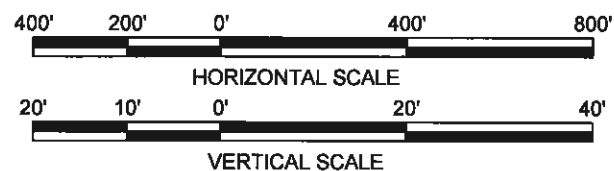


NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

| LEGEND |                           |
|--------|---------------------------|
| ---    | EXISTING GRADE            |
| —      | FINISHED GRADE            |
|        | EARTHEN CONTAINMENT DIKE  |
|        | BORROW AREA               |
|        | CORRIDOR & MARSH CREATION |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
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|      |      |             |    |
|      |      |             |    |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-338-2075

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

DRAWN BY: YC

DESIGNED BY: SA

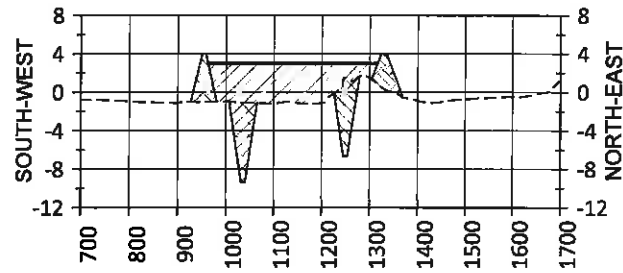
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

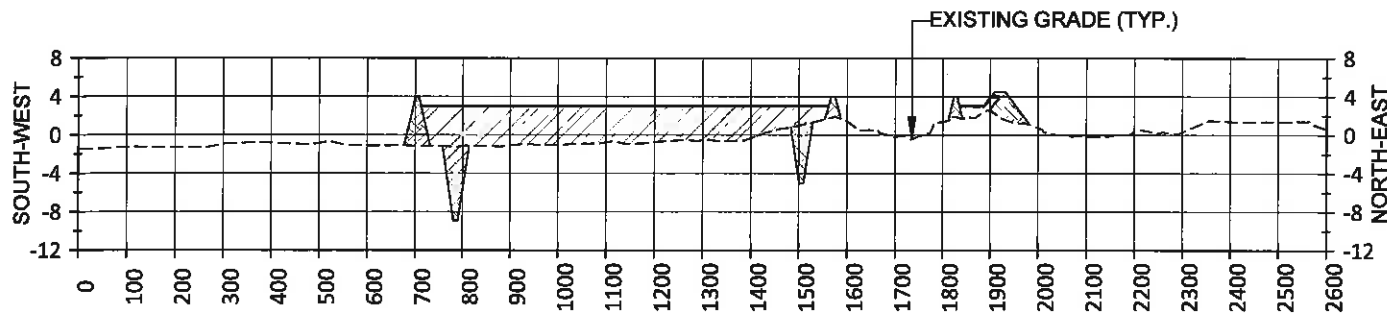
BASE BID: LDSP FILL AREA SECTIONS (SHEET 6 OF 6)

DATE: MARCH 8, 2013

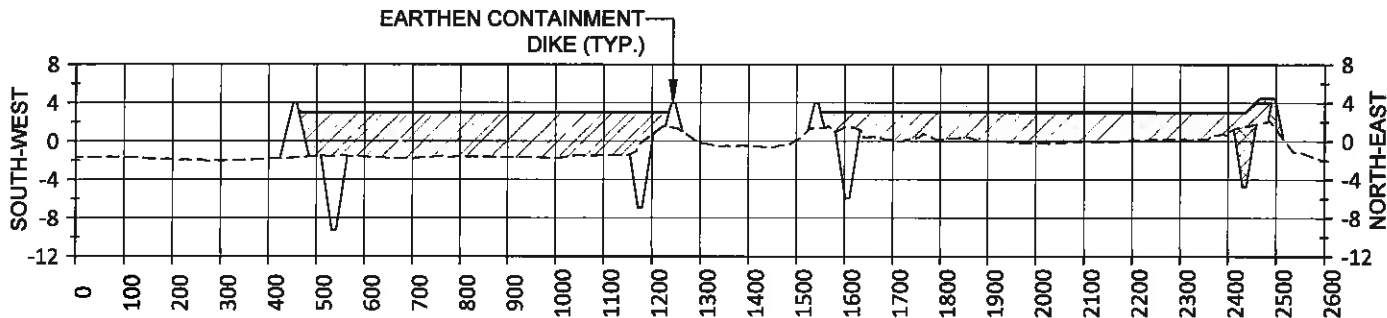
SHEET 68 OF 81



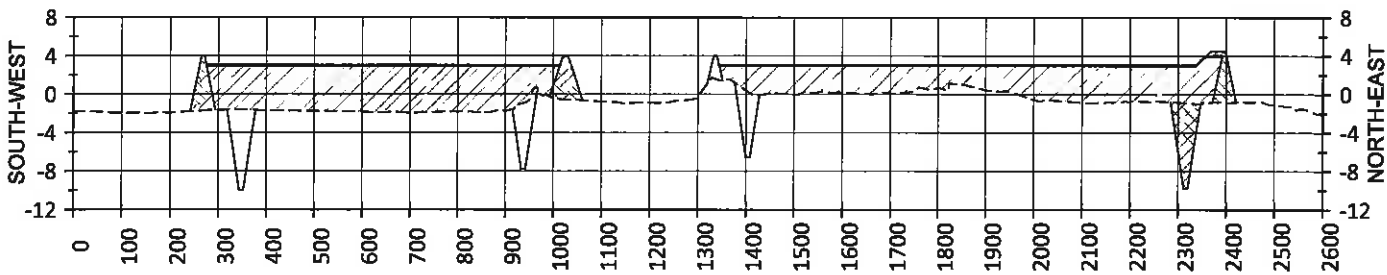
STA. 32+00 (DISTANCE FROM BASELINE, FEET)



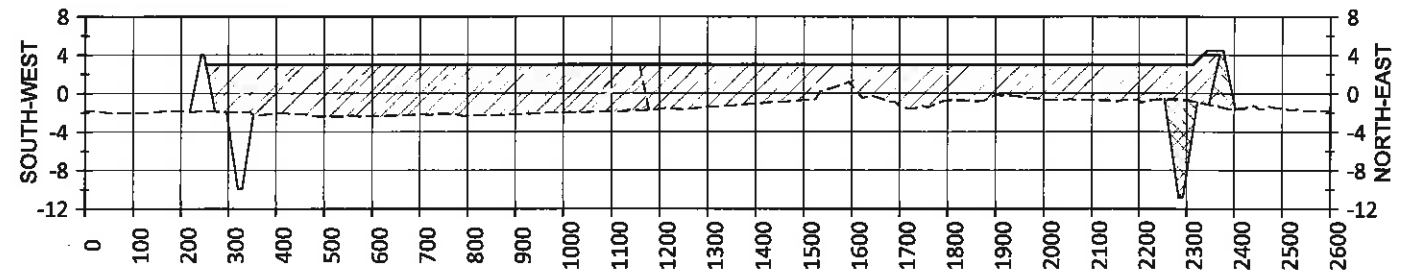
STA. 36+00 (DISTANCE FROM BASELINE, FEET)



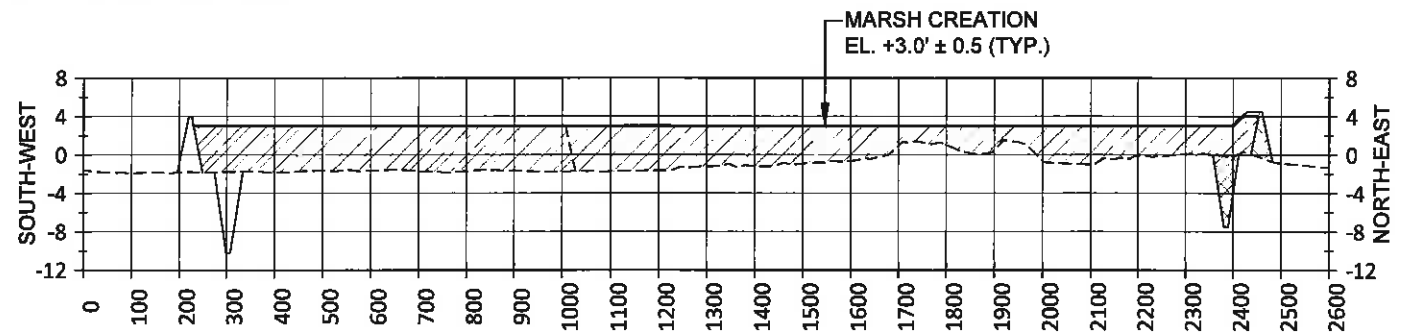
STA. 40+00 (DISTANCE FROM BASELINE, FEET)



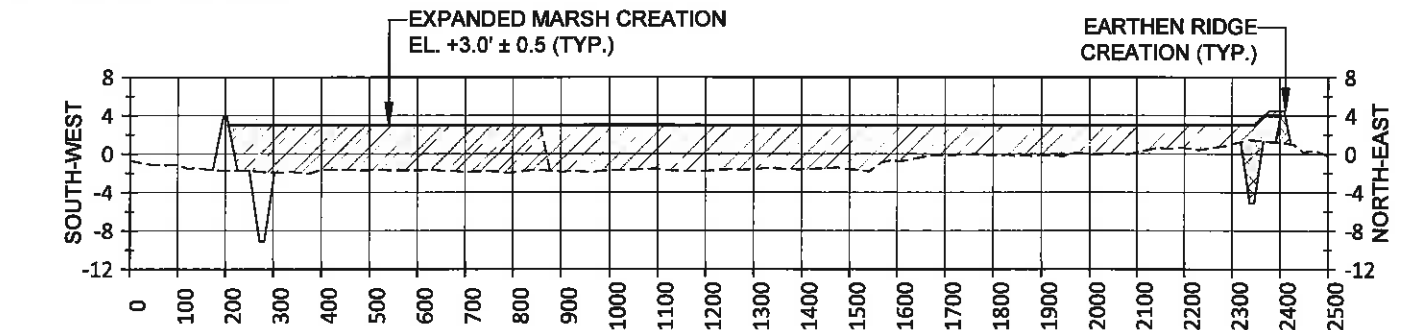
STA. 44+00 (DISTANCE FROM BASELINE, FEET)



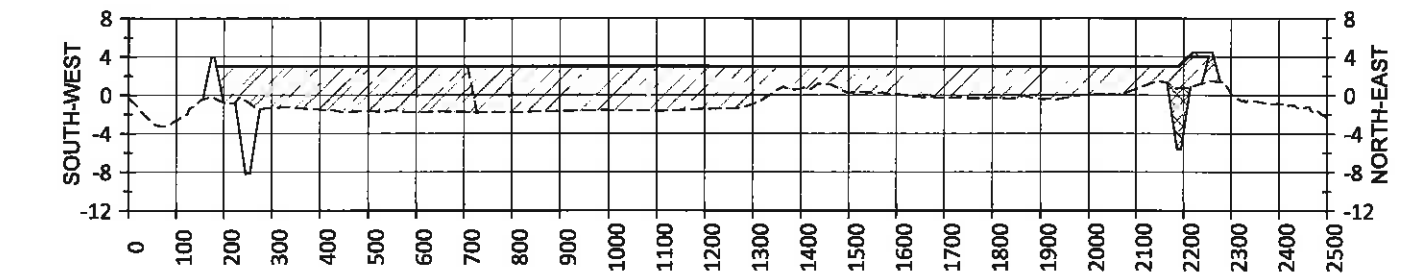
STA. 48+00 (DISTANCE FROM BASELINE, FEET)



STA. 52+00 (DISTANCE FROM BASELINE, FEET)



STA. 56+00 (DISTANCE FROM BASELINE, FEET)



STA. 60+00 (DISTANCE FROM BASELINE, FEET)

| LEGEND                   |   |
|--------------------------|---|
| ---                      | EXISTING GRADE                          |
| —                        | FINISHED GRADE                          |
| [Hatched Box]            | EARTHEN CONTAINMENT DIKE/RIDGE CREATION |
| [Cross-hatched Box]      | BORROW AREA                             |
| [Diagonal Hatched Box]   | MARSH CREATION (BASE BID)               |
| [Horizontal Hatched Box] | EXPANDED MARSH CREATION (ALTERNATE #1)  |

NOTES:

- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

**FINAL BID SET**

HORIZONTAL SCALE: 0' to 800'
   
 VERTICAL SCALE: 0' to 40'

| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
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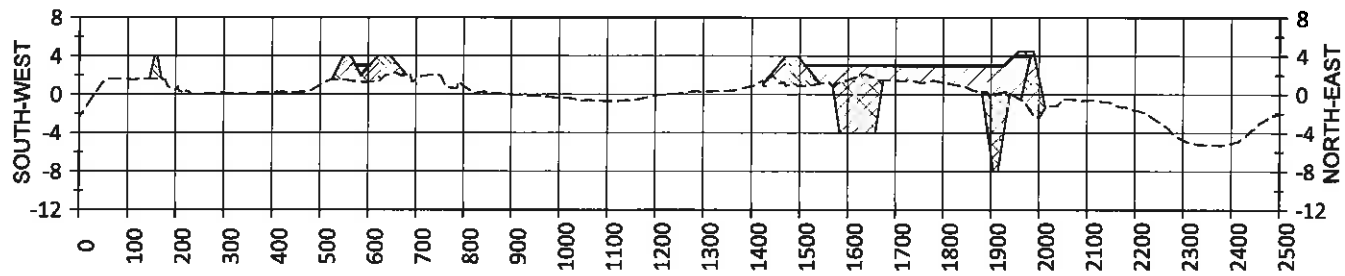
ONE AMERICAN PLACE
   
 301 MAIN STREET, SUITE 800
   
 BATON ROUGE, LA 70825
   
 225-336-2075

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

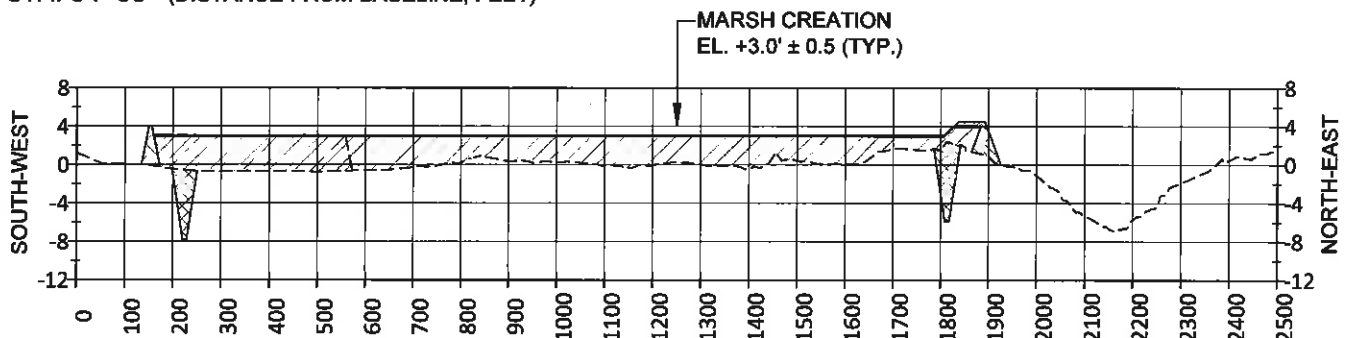
DRAWN BY: YC      DESIGNED BY: RJ

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION
   
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48
   
 APPROVED BY: MAURY CHATELLIER, P.E.

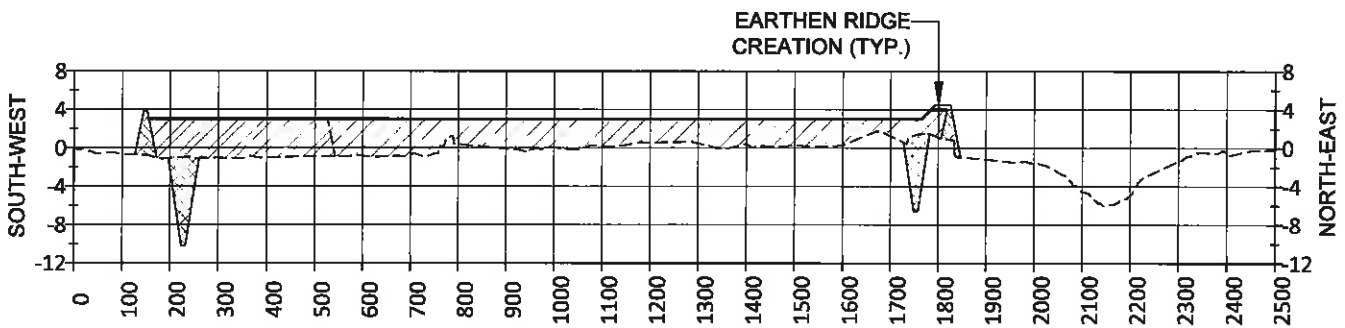
ADDITIVE ALTERNATE #1
   
 BA-48 FILL AREA SECTIONS
   
 (SHEET 1 OF 3)
   
 DATE: MARCH 8, 2013
   
 SHEET 69 OF 81



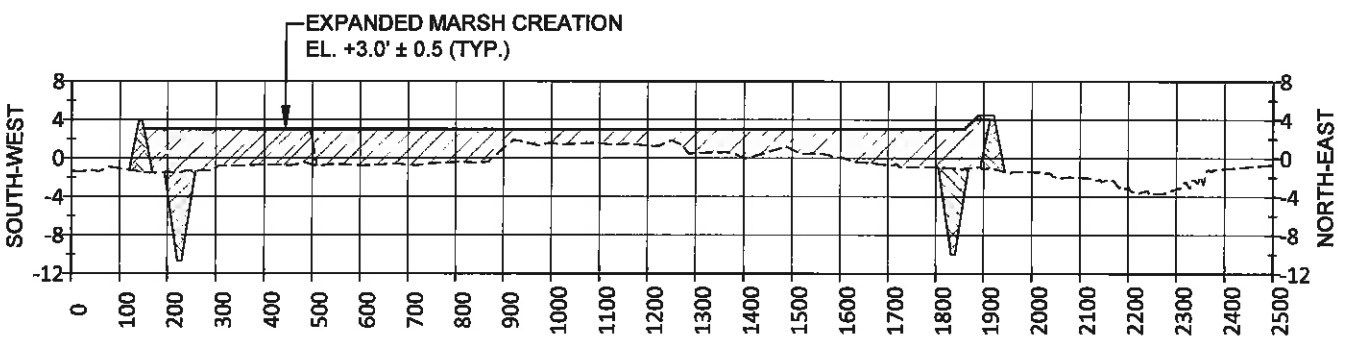
STA. 64+00 (DISTANCE FROM BASELINE, FEET)



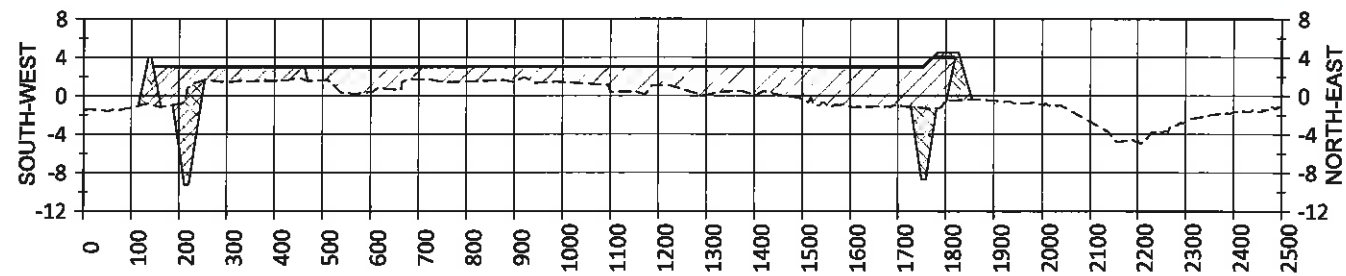
STA. 68+00 (DISTANCE FROM BASELINE, FEET)



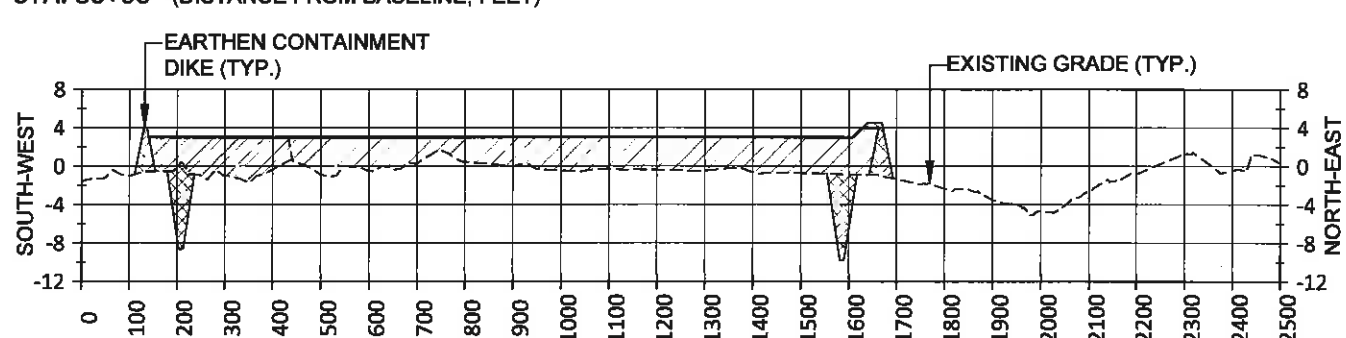
STA. 72+00 (DISTANCE FROM BASELINE, FEET)



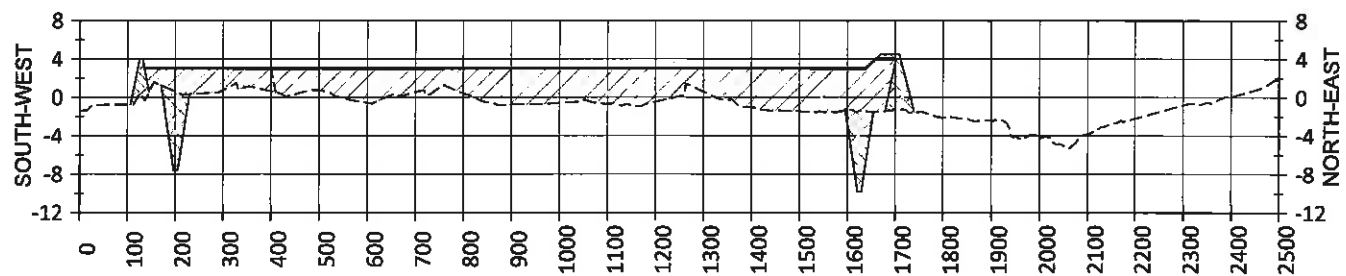
STA. 76+00 (DISTANCE FROM BASELINE, FEET)



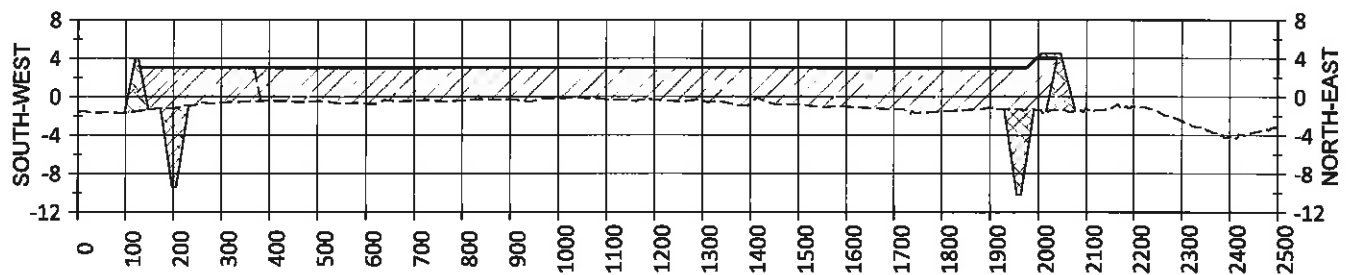
STA. 80+00 (DISTANCE FROM BASELINE, FEET)



STA. 84+00 (DISTANCE FROM BASELINE, FEET)



STA. 88+00 (DISTANCE FROM BASELINE, FEET)



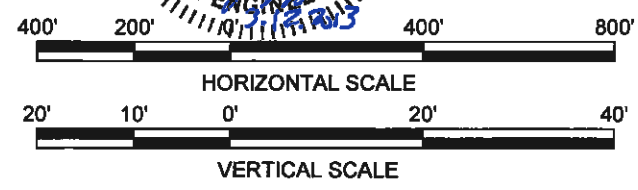
STA. 92+00 (DISTANCE FROM BASELINE, FEET)

| LEGEND                 |   |
|------------------------|---|
| ---                    | EXISTING GRADE                          |
| —                      | FINISHED GRADE                          |
| [Hatched Box]          | EARTHEN CONTAINMENT DIKE/RIDGE CREATION |
| [Cross-hatched Box]    | BORROW AREA                             |
| [Diagonal Hatched Box] | MARSH CREATION (BASE BID)               |
| [Diagonal Hatched Box] | EXPANDED MARSH CREATION (ALTERNATE #1)  |

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
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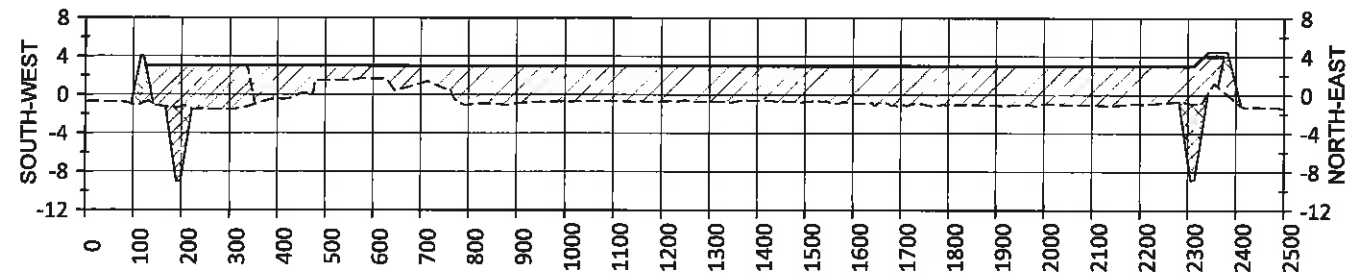
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

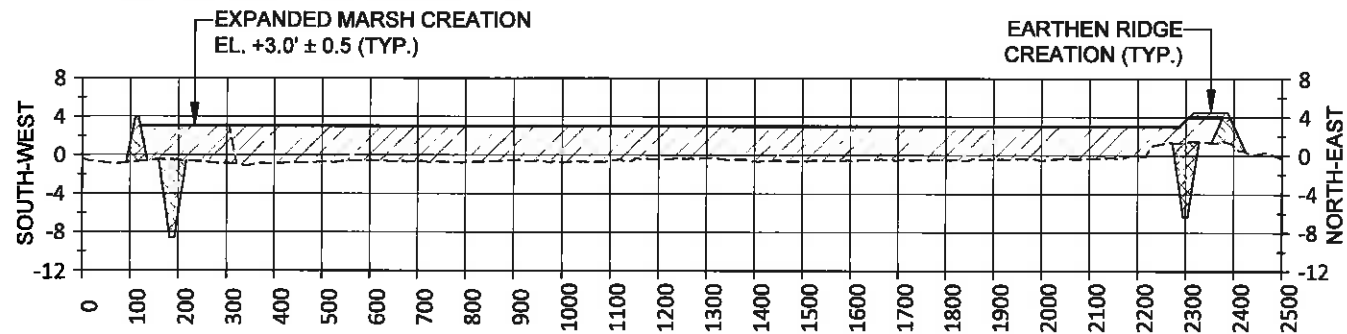
DRAWN BY: YC      DESIGNED BY: RJ

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

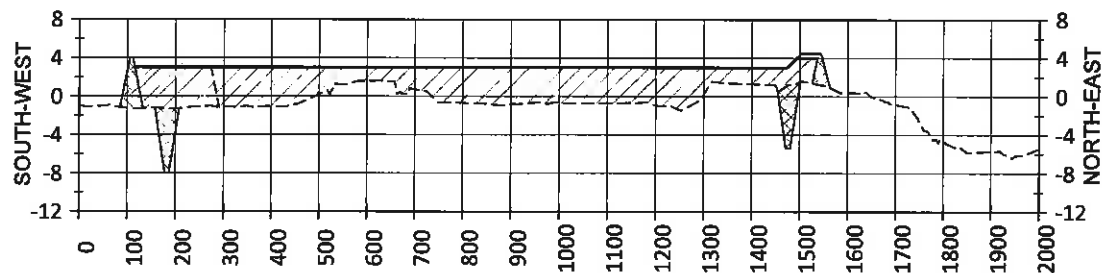
ADDITIVE ALTERNATE #1: BA-48 FILL AREA SECTIONS (SHEET 2 OF 3)  
 DATE: MARCH 8, 2013  
 SHEET 70 OF 81



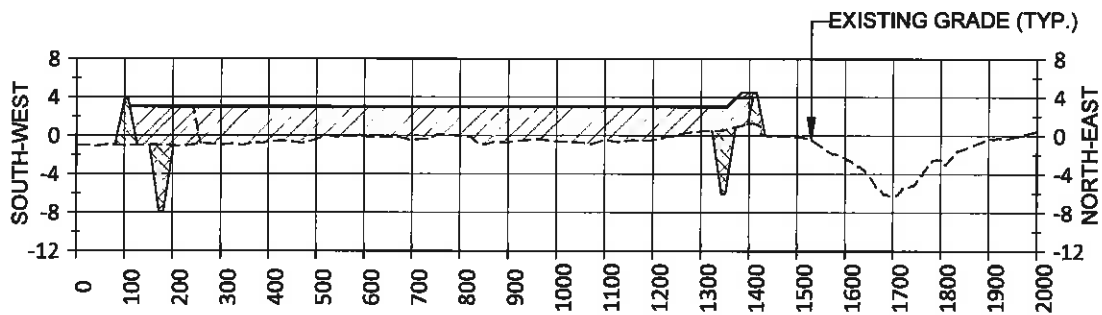
STA. 96+00 (DISTANCE FROM BASELINE, FEET)



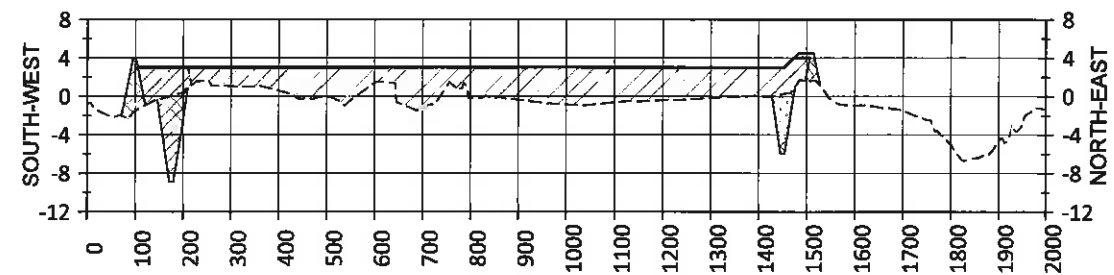
STA. 100+00 (DISTANCE FROM BASELINE, FEET)



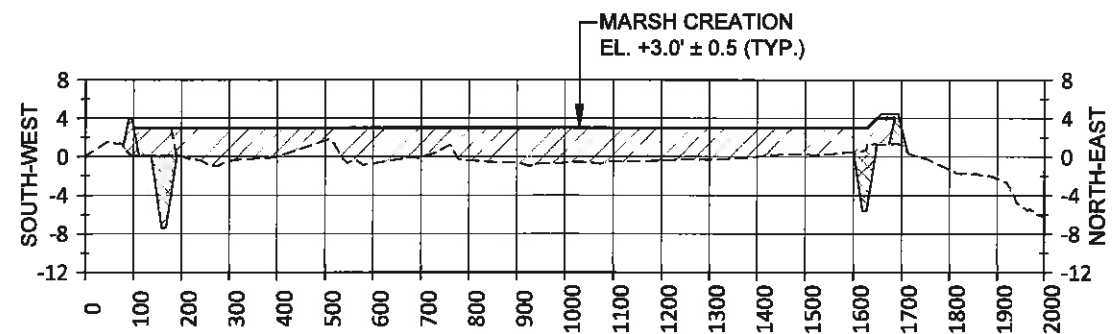
STA. 104+00 (DISTANCE FROM BASELINE, FEET)



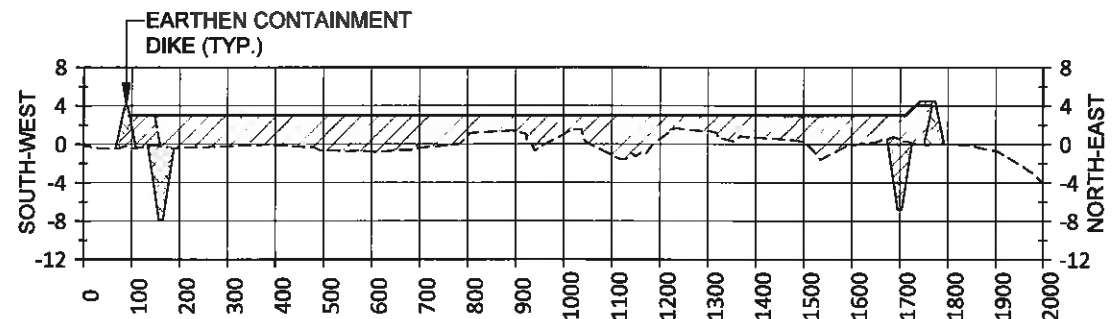
STA. 108+00 (DISTANCE FROM BASELINE, FEET)



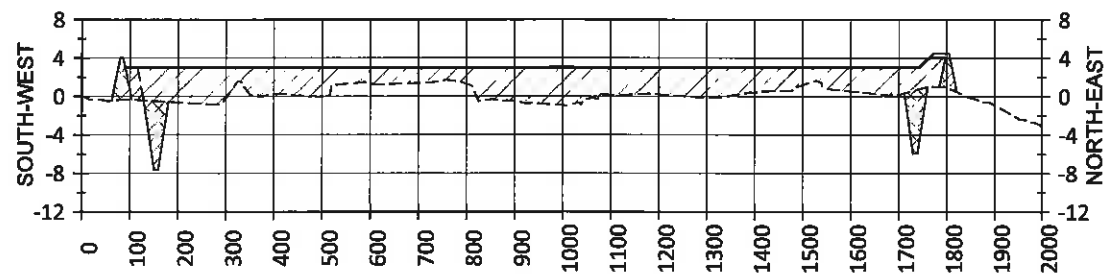
STA. 112+00 (DISTANCE FROM BASELINE, FEET)



STA. 116+00 (DISTANCE FROM BASELINE, FEET)



STA. 120+00 (DISTANCE FROM BASELINE, FEET)



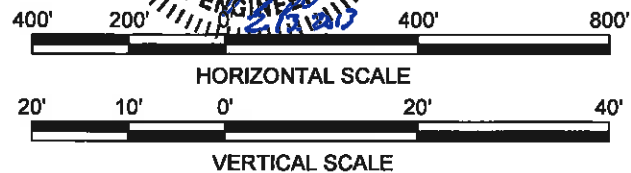
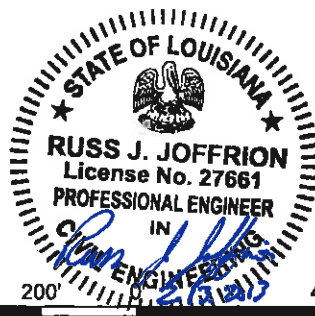
STA. 124+00 (DISTANCE FROM BASELINE, FEET)

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON PBS&J SURVEY PERFORMED IN OCTOBER 2008.

| LEGEND |   |
|--------|---|
|        | EXISTING GRADE                          |
|        | FINISHED GRADE                          |
|        | EARTHEN CONTAINMENT DIKE/RIDGE CREATION |
|        | BORROW AREA                             |
|        | MARSH CREATION (BASE BID)               |
|        | EXPANDED MARSH CREATION (ALTERNATE #1)  |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |
|      |      |             |    |
|      |      |             |    |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

DRAWN BY: YC

DESIGNED BY: RJ

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

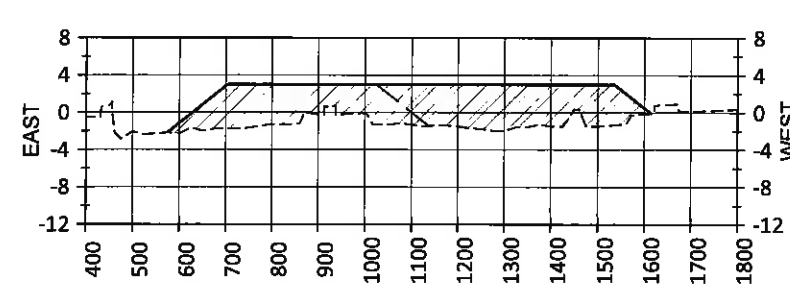
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

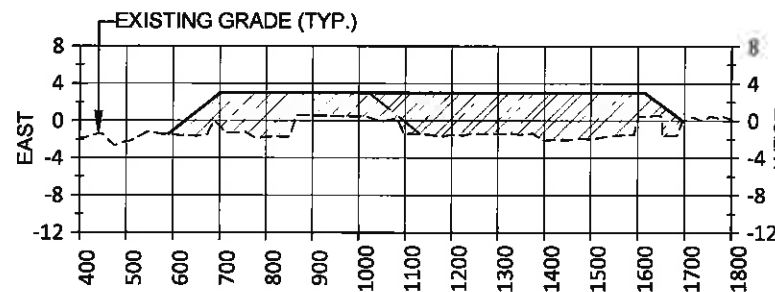
ADDITIVE ALTERNATE #1:  
 BA-48 FILL AREA SECTIONS  
 (SHEET 3 OF 3)

DATE: MARCH 8, 2013

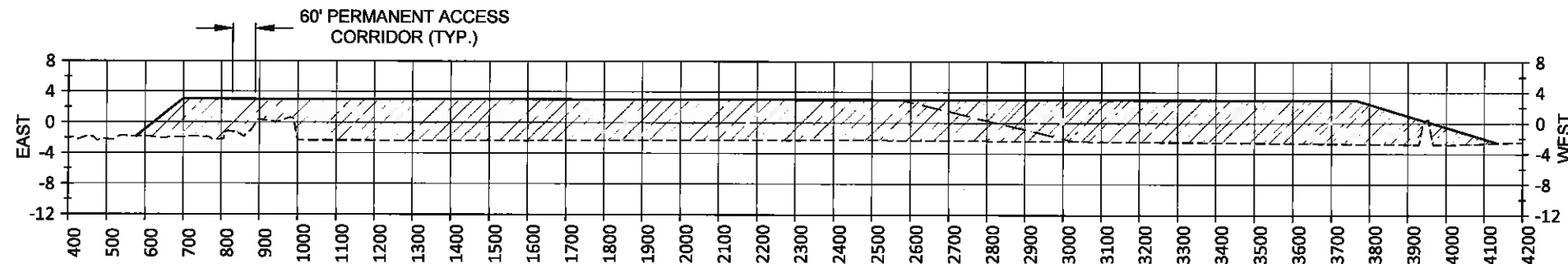
SHEET 71 OF 81



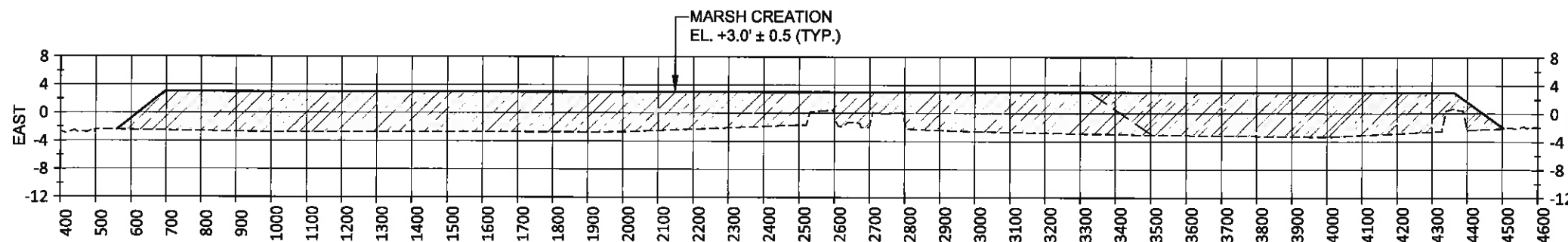
STA. 40+00 (DISTANCE FROM BASELINE, FEET)



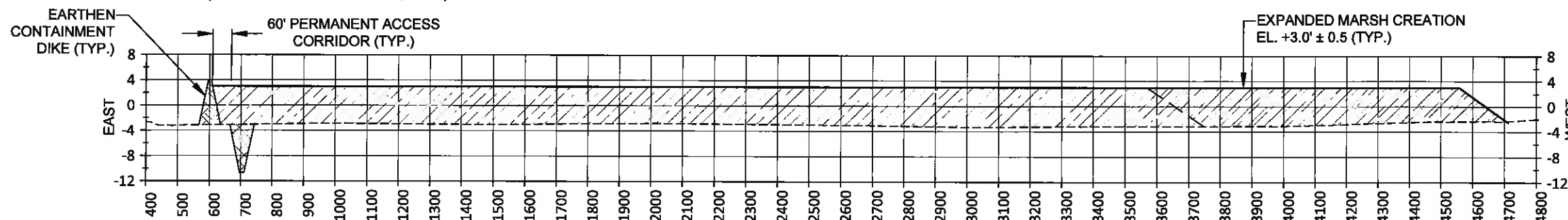
STA. 44+00 (DISTANCE FROM BASELINE, FEET)



STA. 48+00 (DISTANCE FROM BASELINE, FEET)



STA. 52+00 (DISTANCE FROM BASELINE, FEET)



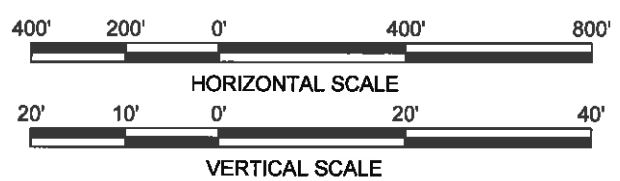
STA. 56+00 (DISTANCE FROM BASELINE, FEET)



- NOTES:
- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

| LEGEND                 |  |
|------------------------|--|
| ---                    | EXISTING GRADE                         |
| —                      | FINISHED GRADE                         |
| [Hatched Box]          | EARTHEN CONTAINMENT DIKE               |
| [Cross-hatched Box]    | BORROW AREA                            |
| [Diagonal Hatched Box] | MARSH CREATION (BASE BID)              |
| [Diagonal Hatched Box] | EXPANDED MARSH CREATION (ALTERNATE #2) |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |

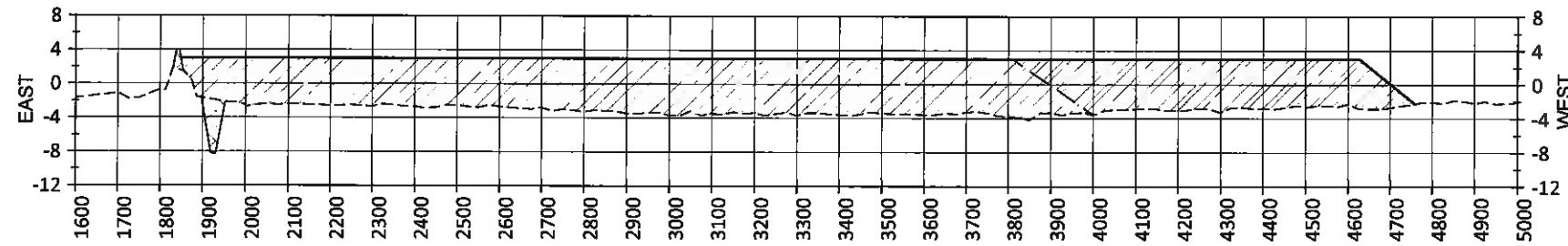
**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

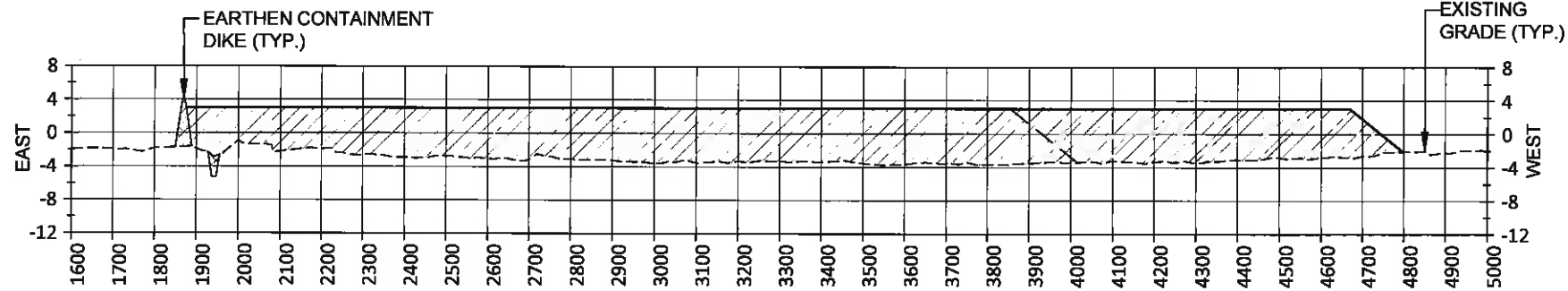
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 DRAWN BY: YC      DESIGNED BY: SA  
 APPROVED BY: MAURY CHATELLIER, P.E.

ADDITIVE ALTERNATE #2: LDSP FILL AREA SECTIONS (SHEET 1 OF 5)  
 DATE: MARCH 8, 2013  
 SHEET 72 OF 81

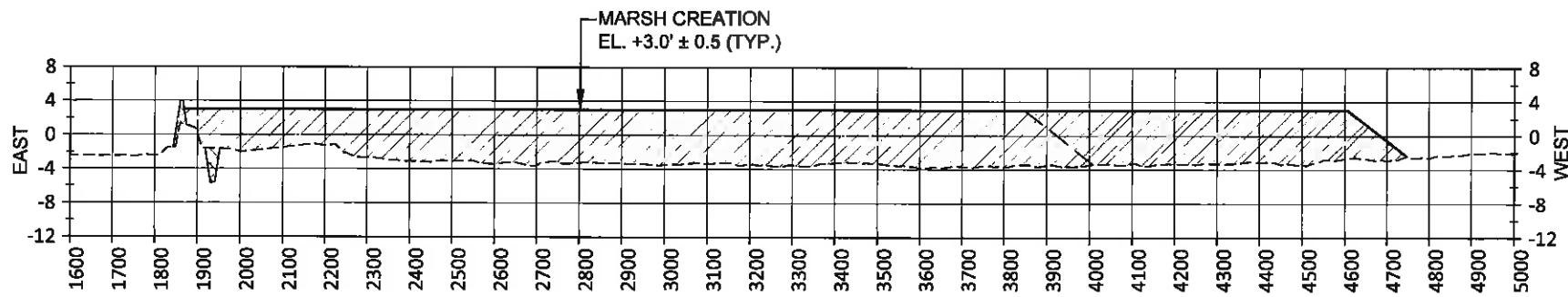




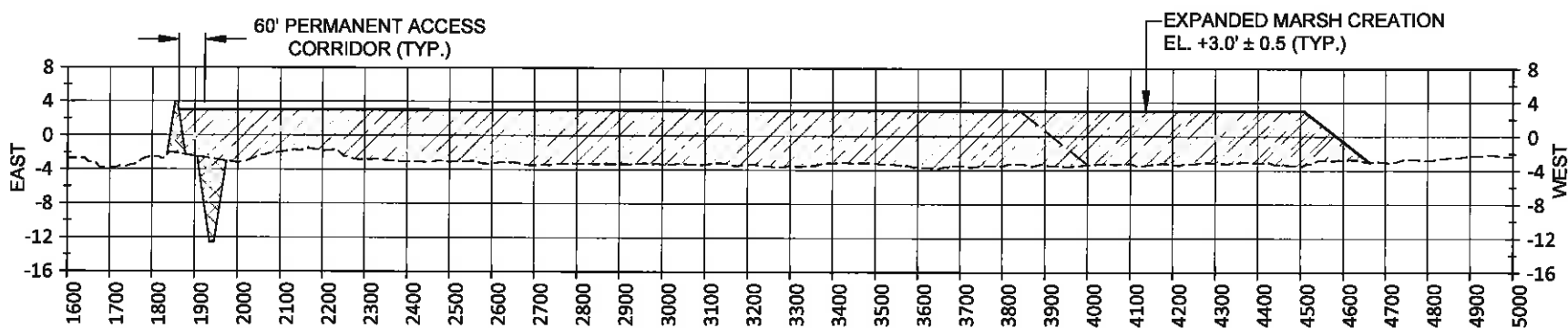
STA. 60+00 (DISTANCE FROM BASELINE, FEET)



STA. 64+00 (DISTANCE FROM BASELINE, FEET)



STA. 68+00 (DISTANCE FROM BASELINE, FEET)



STA. 72+00 (DISTANCE FROM BASELINE, FEET)

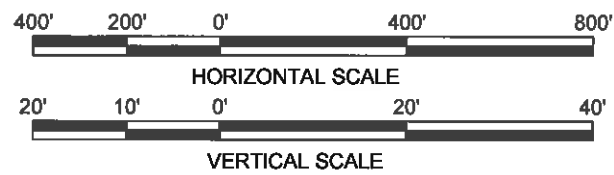
STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

| LEGEND                 |  |
|------------------------|--|
| ---                    | EXISTING GRADE                         |
| —                      | FINISHED GRADE                         |
| [Hatched Box]          | EARTHEN CONTAINMENT DIKE               |
| [Cross-hatched Box]    | BORROW AREA                            |
| [Diagonal Hatched Box] | MARSH CREATION (BASE BID)              |
| [Diagonal Hatched Box] | EXPANDED MARSH CREATION (ALTERNATE #2) |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |
|      |      |             |    |
|      |      |             |    |

MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC

DESIGNED BY: SA

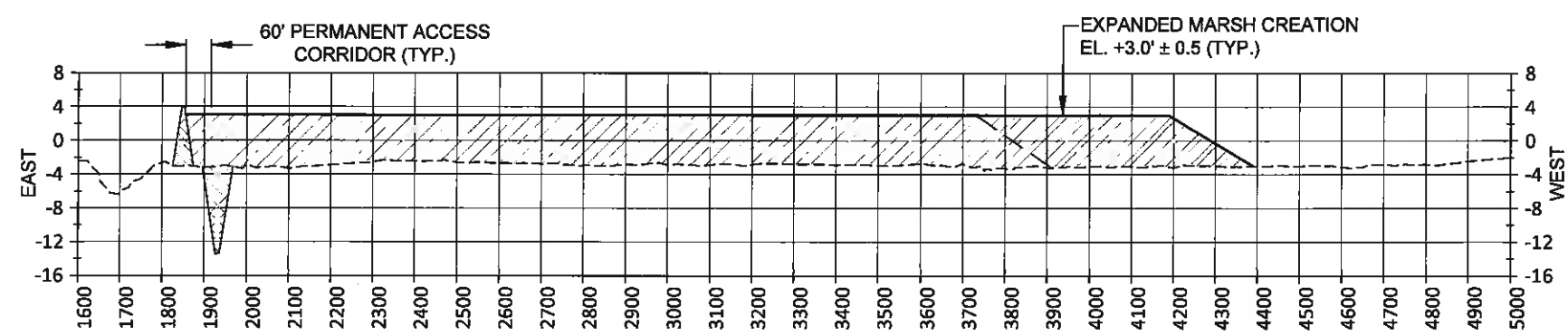
APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

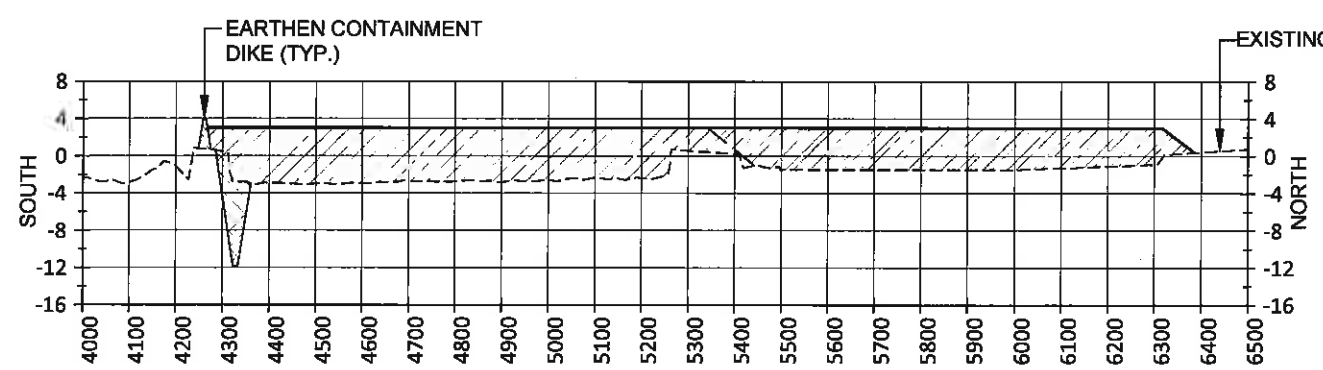
ADDITIVE ALTERNATE #2: LDSP FILL AREA SECTIONS (SHEET 2 OF 5)

DATE: MARCH 8, 2013

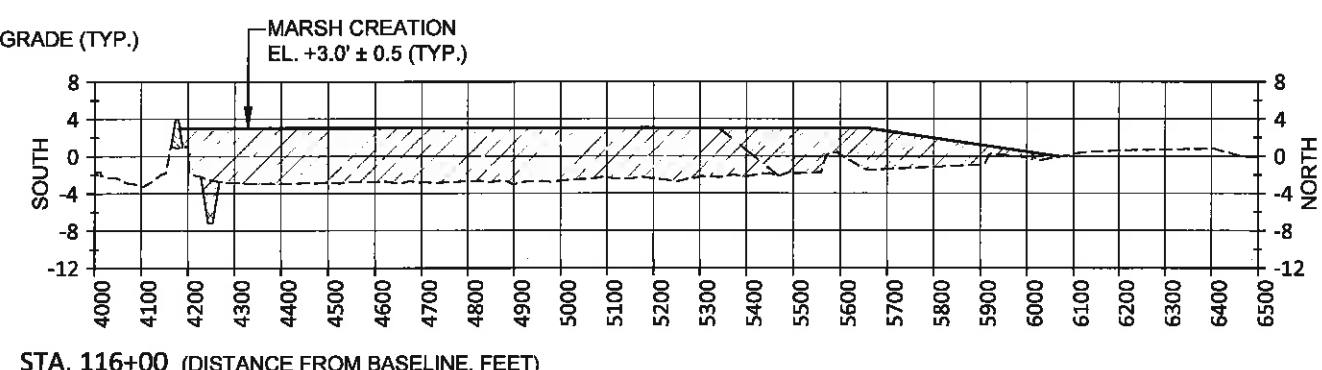
SHEET 73 OF 81



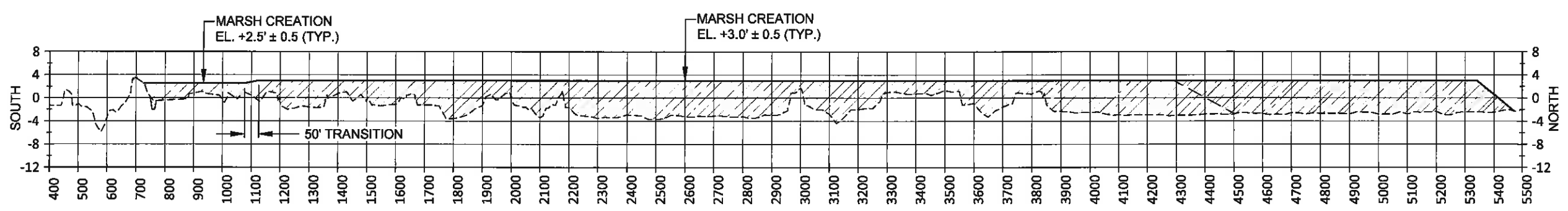
STA. 76+00 (DISTANCE FROM BASELINE, FEET)



STA. 112+00 (DISTANCE FROM BASELINE, FEET)



STA. 116+00 (DISTANCE FROM BASELINE, FEET)



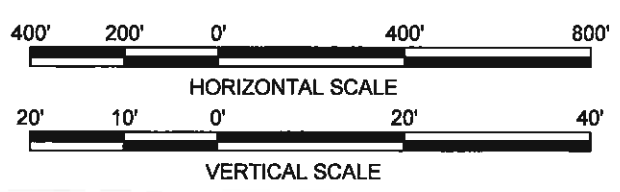
STA. 120+00 (DISTANCE FROM BASELINE, FEET)

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 03/12/2013

| LEGEND |  |
|--------|--|
|        | EXISTING GRADE                         |
|        | FINISHED GRADE                         |
|        | EARTHEN CONTAINMENT DIKE               |
|        | BORROW AREA                            |
|        | MARSH CREATION (BASE BID)              |
|        | EXPANDED MARSH CREATION (ALTERNATE #2) |

- NOTES:
- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

**FINAL BID SET**



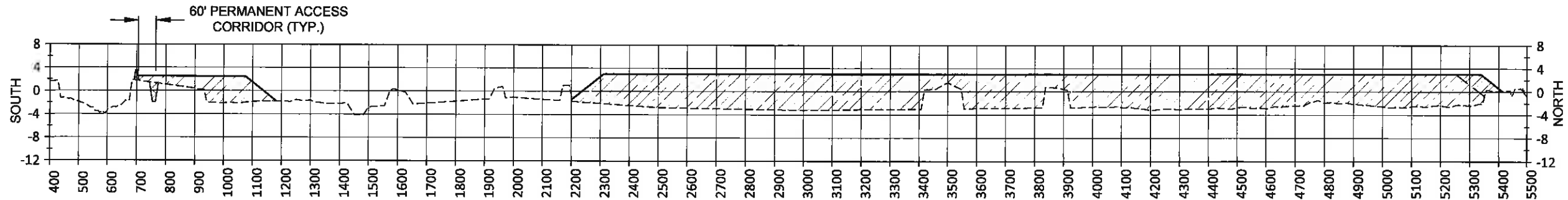
| REV. | DATE | DESCRIPTION | BY |
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MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

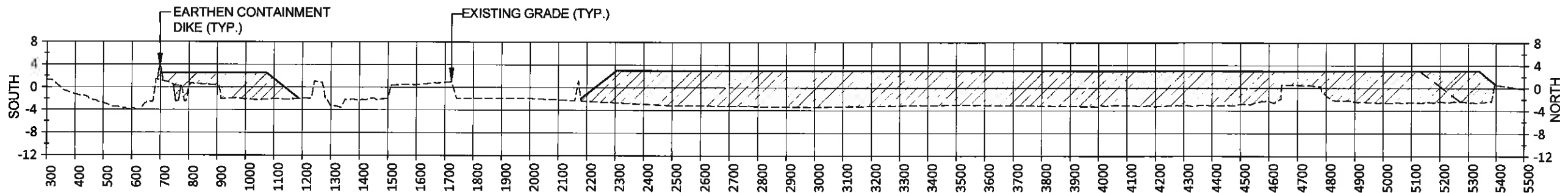
COASTAL PROTECTION AND RESTORATION AUTHORITY  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 DRAWN BY: YC  
 DESIGNED BY: SA  
 APPROVED BY: MAURY CHATELLIER, P.E.

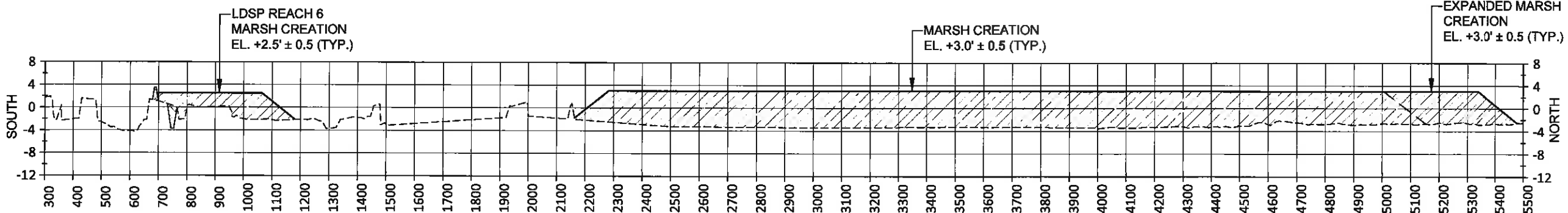
ADDITIVE ALTERNATE #2: LDSP FILL AREA SECTIONS (SHEET 3 OF 5)  
 DATE: MARCH 8, 2013  
 SHEET 74 OF 81



STA. 124+00 (DISTANCE FROM BASELINE, FEET)



STA. 128+00 (DISTANCE FROM BASELINE, FEET)



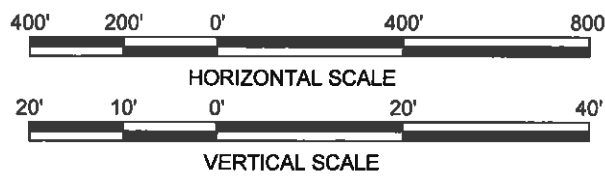
STA. 132+00 (DISTANCE FROM BASELINE, FEET)

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 03/12/2013

| LEGEND           |  |
|------------------|--|
| ---              | EXISTING GRADE                         |
| —                | FINISHED GRADE                         |
| [Hatched]        | EARTHEN CONTAINMENT DIKE               |
| [Cross-hatched]  | BORROW AREA                            |
| [Diagonal lines] | MARSH CREATION (BASE BID)              |
| [Diagonal lines] | EXPANDED MARSH CREATION (ALTERNATE #2) |

- NOTES:
- ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

**FINAL BID SET**



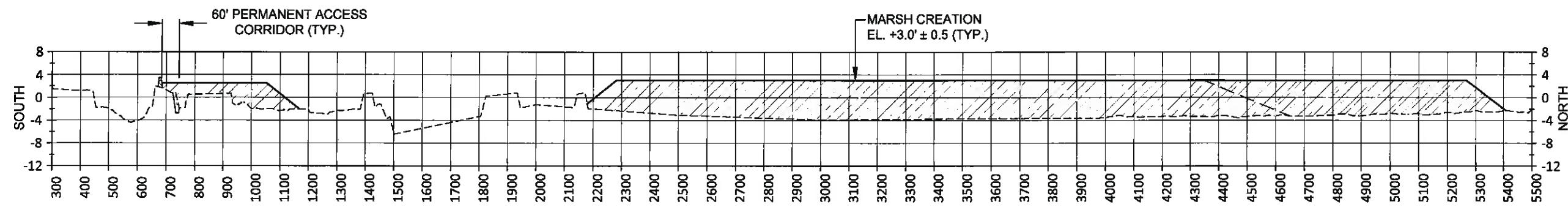
| REV. | DATE | DESCRIPTION | BY |
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**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

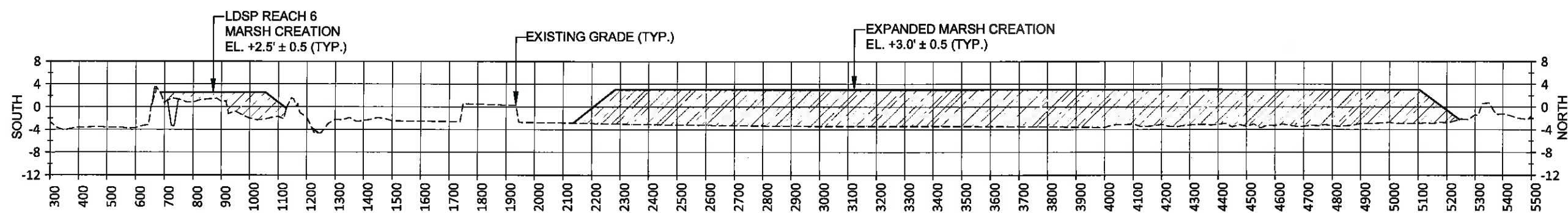
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 DRAWN BY: YC      DESIGNED BY: SA  
 APPROVED BY: MAURY CHATELLIER, P.E.

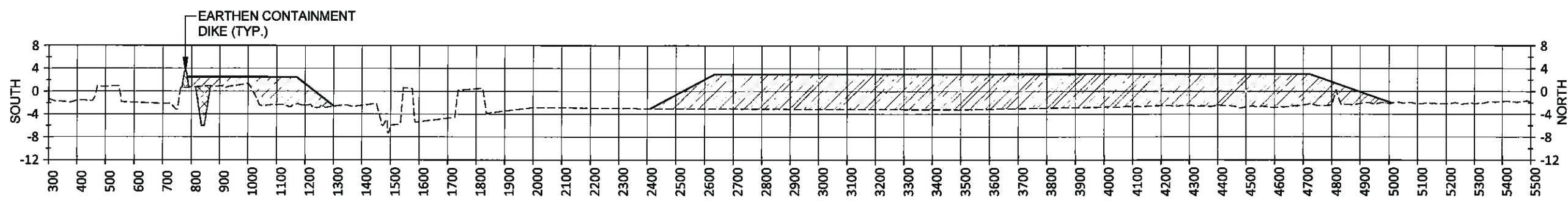
ADDITIVE ALTERNATE #2: LDSP FILL AREA SECTIONS (SHEET 4 OF 5)  
 DATE: MARCH 8, 2013  
 SHEET 75 OF 81



STA. 136+00 (DISTANCE FROM BASELINE, FEET)



STA. 140+00 (DISTANCE FROM BASELINE, FEET)



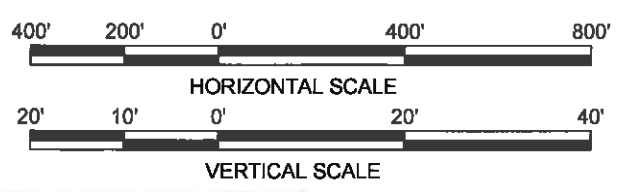
STA. 144+00 (DISTANCE FROM BASELINE, FEET)

STATE OF LOUISIANA  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
 03/12/2013

| LEGEND           |  |
|------------------|--|
| ---              | EXISTING GRADE                         |
| —                | FINISHED GRADE                         |
| [Hatched]        | EARTHEN CONTAINMENT DIKE               |
| [Cross-hatched]  | BORROW AREA                            |
| [Diagonal lines] | MARSH CREATION (BASE BID)              |
| [Diagonal lines] | EXPANDED MARSH CREATION (ALTERNATE #2) |

- NOTES:
1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.

**FINAL BID SET**



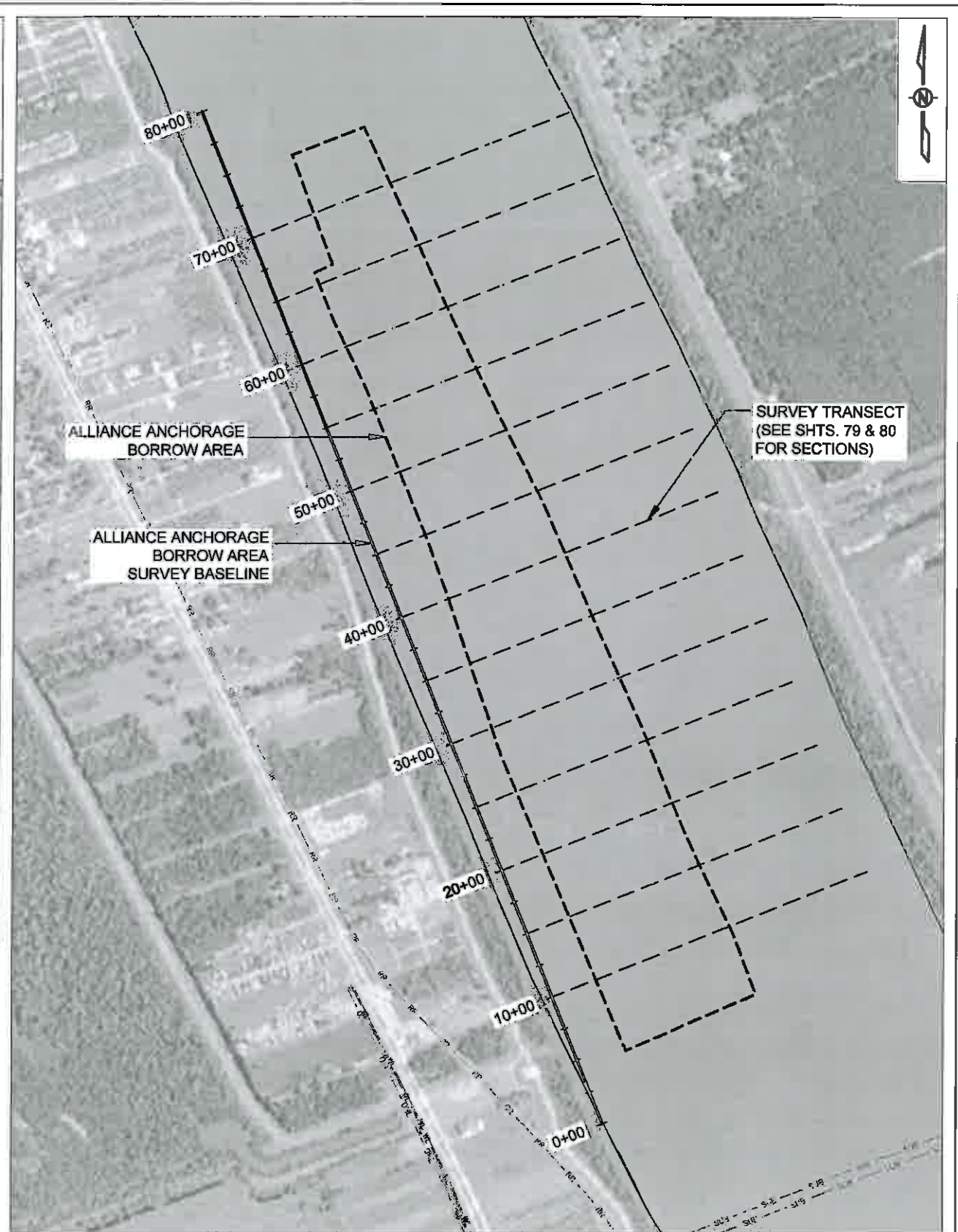
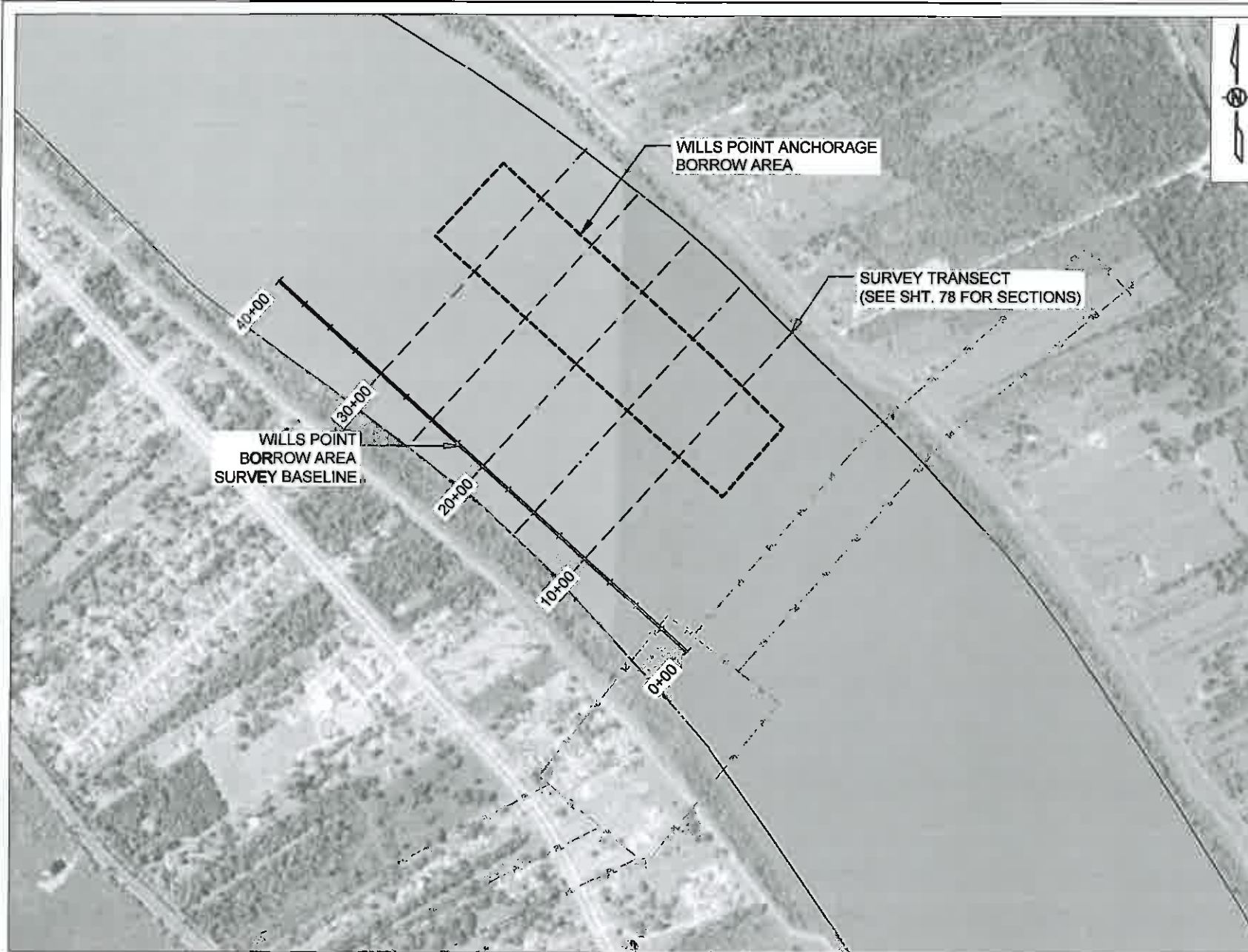
| REV. | DATE | DESCRIPTION | BY |
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|      |      |             |    |

ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075  
**MOFFATT & NICHOL**

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 DRAWN BY: YC      DESIGNED BY: SA  
 APPROVED BY: MAURY CHATELLIER, P.E.

ADDITIVE ALTERNATE #2:  
 LDSP FILL AREA SECTIONS  
 (SHEET 5 OF 5)  
 DATE: MARCH 8, 2013  
 SHEET 76 OF 81



| LEGEND |                 |
|--------|-----------------|
|        | SURVEY BASELINE |
|        | SURVEY TRANSECT |
|        | BORROW AREA     |

- NOTES:
1. THE CONTRACTOR SHALL SURVEY THE BORROW AREAS AT THE LOCATIONS SHOWN AS PER SECTION TS-3.
  2. BORROW AREA SURVEY WERE PERFORMED IN AUGUST 2011 BY OSI.
  3. SEE SHEET 78, 79 & 80 FOR THE BORROW AREA SECTIONS.

STATE OF LOUISIANA  
 ★ ★ ★  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Russ J. Joffrion*  
 3/12/2013

STATE OF LOUISIANA  
 ★ ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 3/12/2013

FINAL BID SET



| REV. | DATE | DESCRIPTION | BY |
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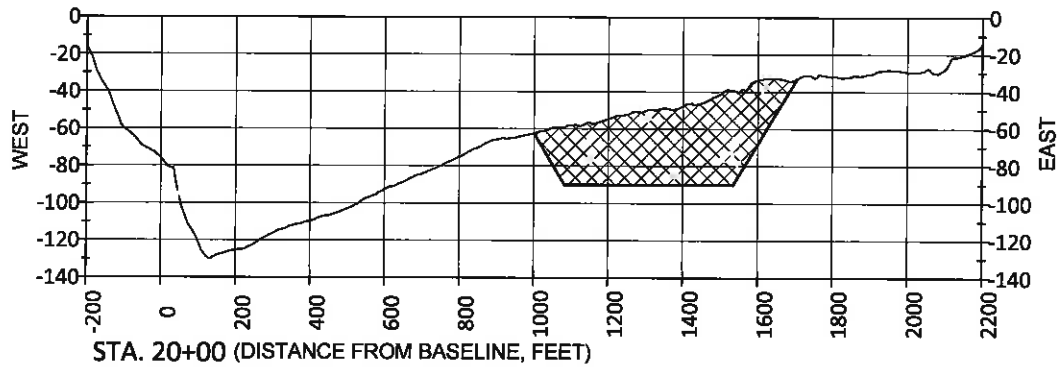
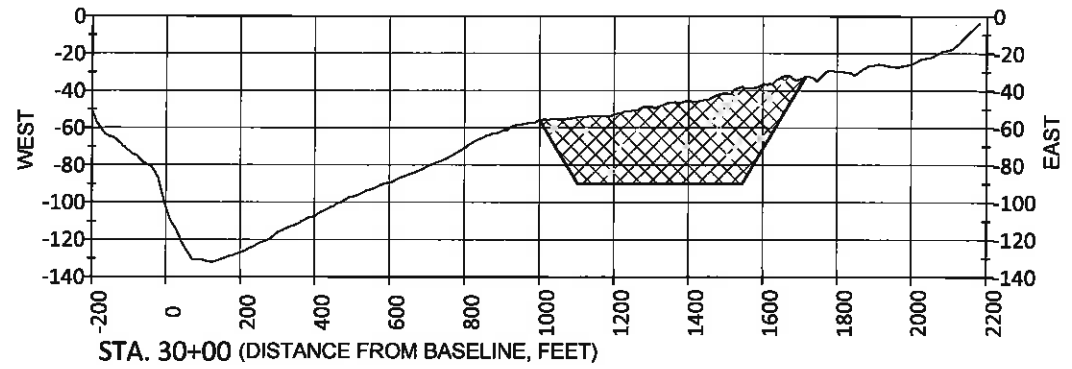
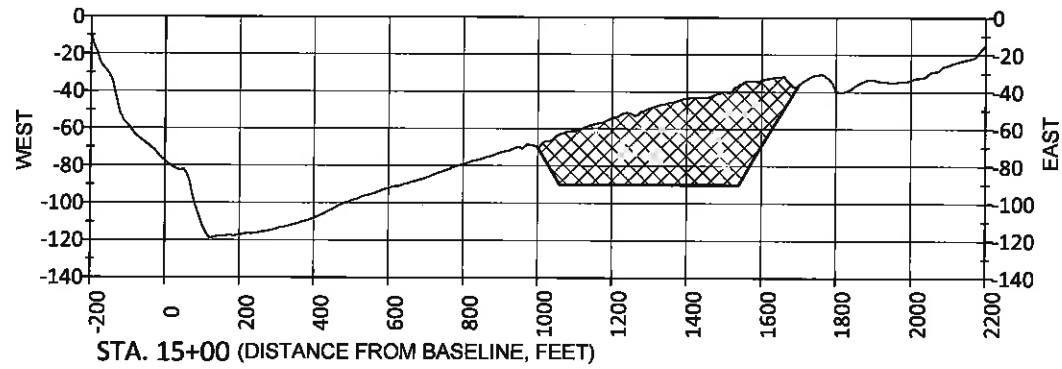
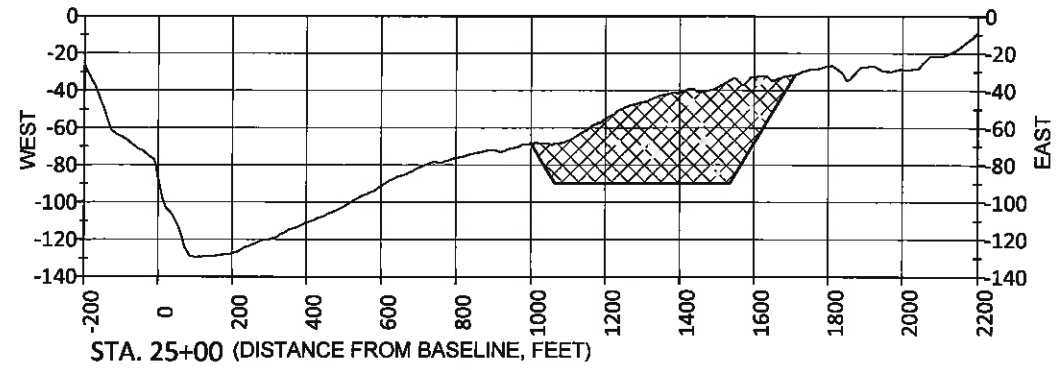
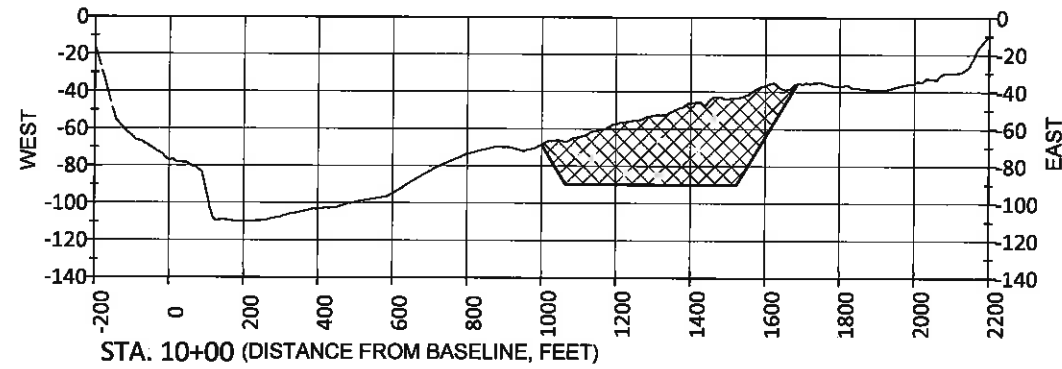
MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

BORROW AREAS SECTIONS LAYOUT

DRAWN BY: YC      DESIGNED BY: SA      APPROVED BY: MAURY CHATELLIER, P.E.      DATE: MARCH 8, 2013      SHEET 77 OF 81



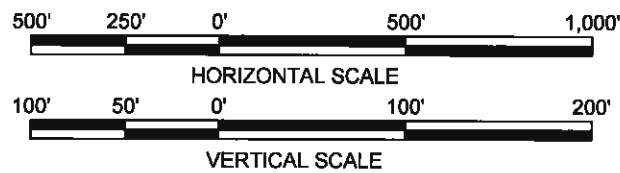
NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.

LEGEND

- BORROW AREA
- EXISTING RIVER BOTTOM

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |
|      |      |             |    |
|      |      |             |    |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70826  
 225-336-2075

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

WILLS POINT ANCHORAGE BORROW AREA SECTIONS

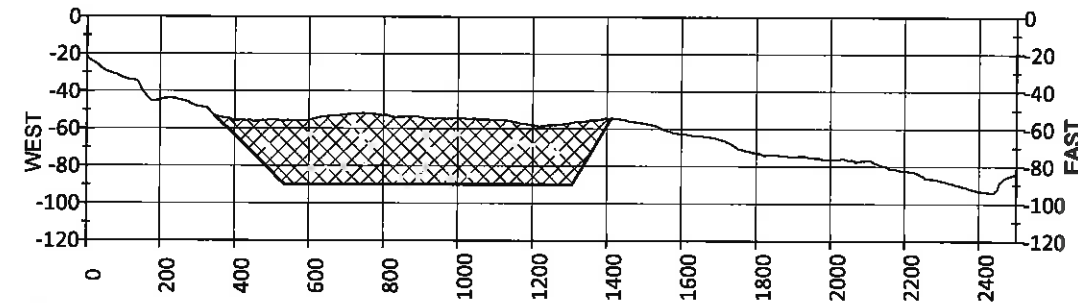
DRAWN BY: YC

DESIGNED BY: SA

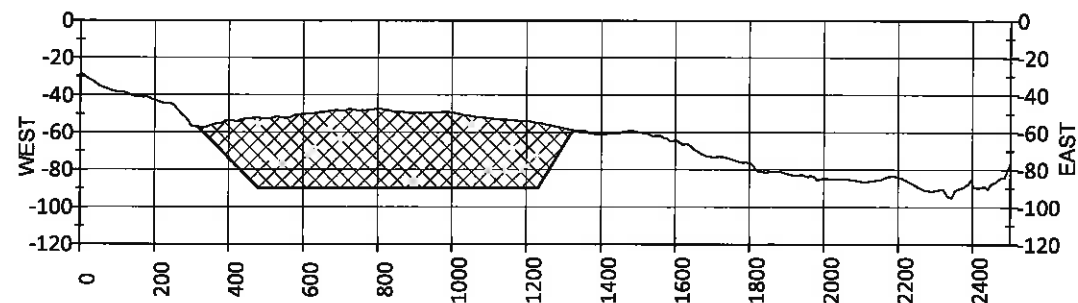
APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013

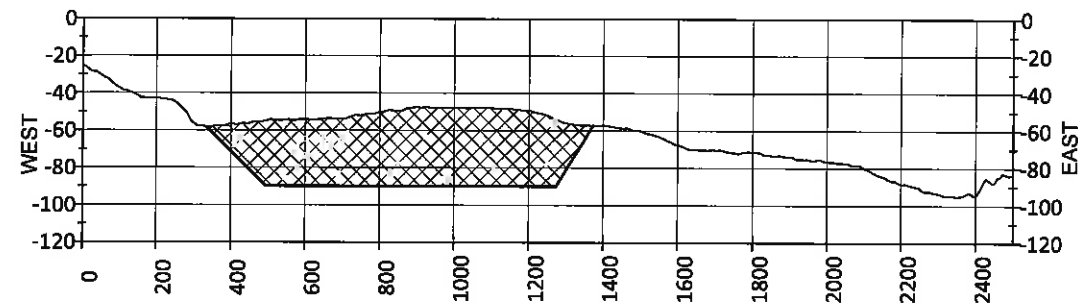
SHEET 78 OF 81



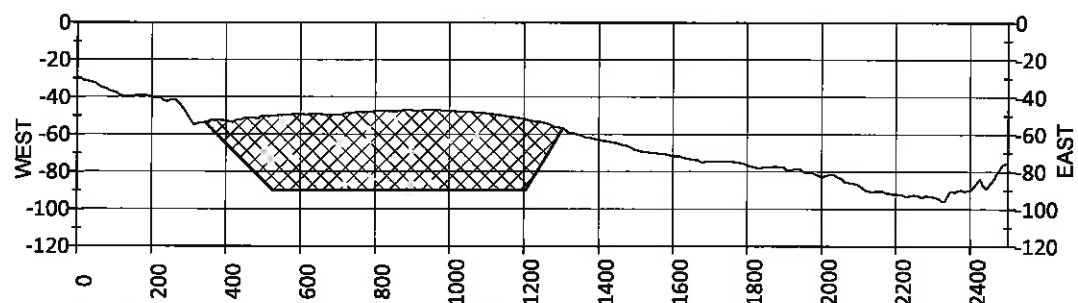
STA. 10+00 (DISTANCE FROM BASELINE, FEET)



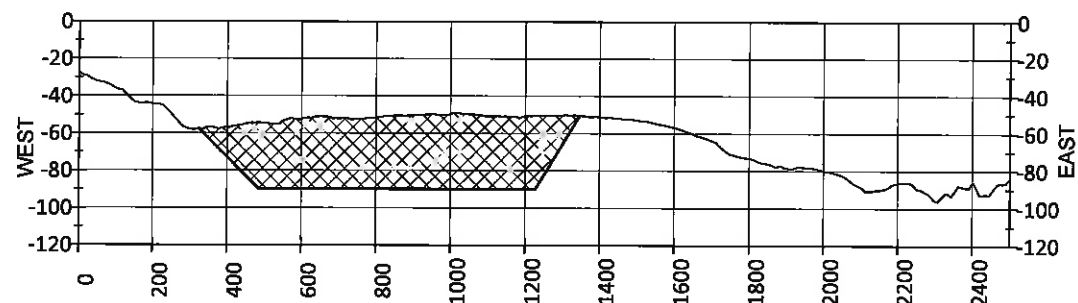
STA. 30+00 (DISTANCE FROM BASELINE, FEET)



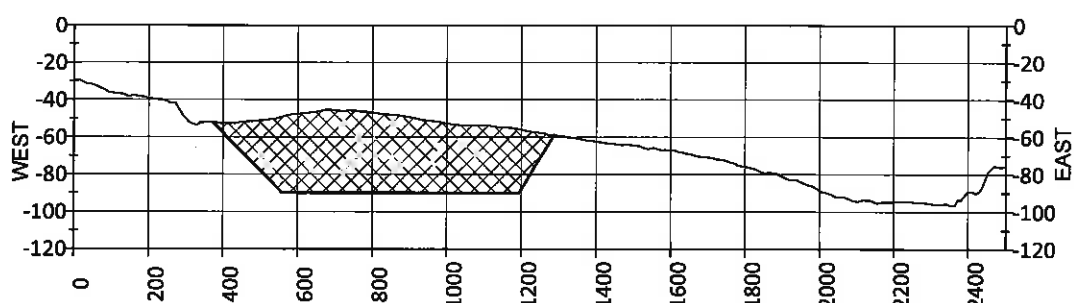
STA. 15+00 (DISTANCE FROM BASELINE, FEET)



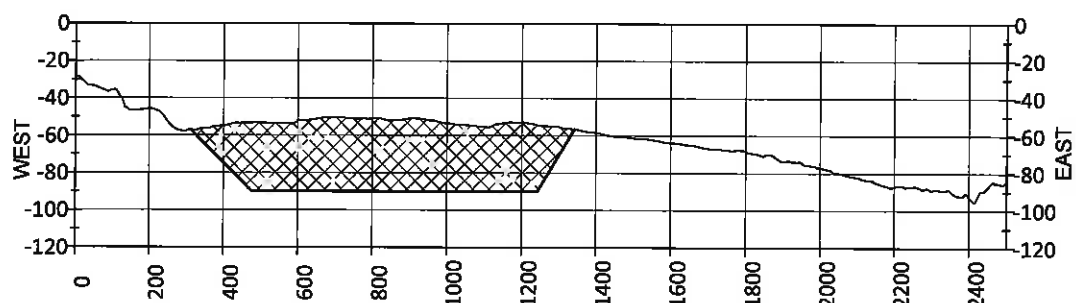
STA. 35+00 (DISTANCE FROM BASELINE, FEET)



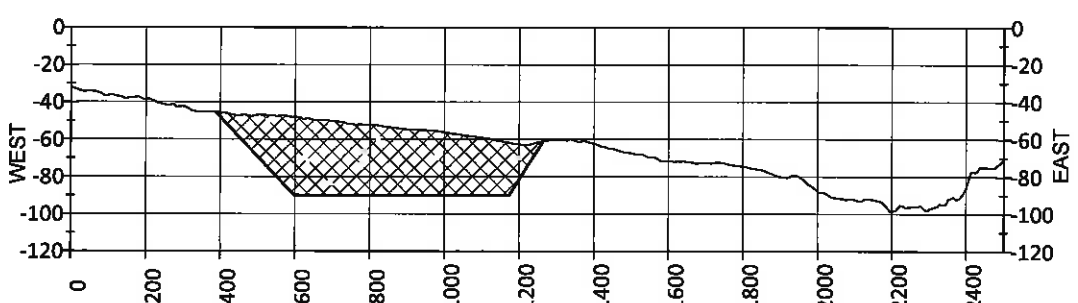
STA. 20+00 (DISTANCE FROM BASELINE, FEET)



STA. 40+00 (DISTANCE FROM BASELINE, FEET)



STA. 25+00 (DISTANCE FROM BASELINE, FEET)



STA. 45+00 (DISTANCE FROM BASELINE, FEET)

STATE OF LOUISIANA  
 ★ ★  
 RUSSELL J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*3/12/2013*

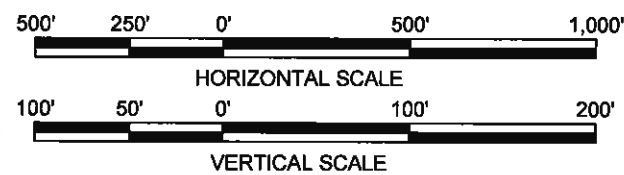
STATE OF LOUISIANA  
 ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
*03/12/2013*

NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.

| LEGEND |                       |
|--------|-----------------------|
|        | BORROW AREA           |
|        | EXISTING RIVER BOTTOM |

**FINAL BID SET**



| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
|      |      |             |    |
|      |      |             |    |
|      |      |             |    |

MOFFATT & NICHOL  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC

DESIGNED BY: SA

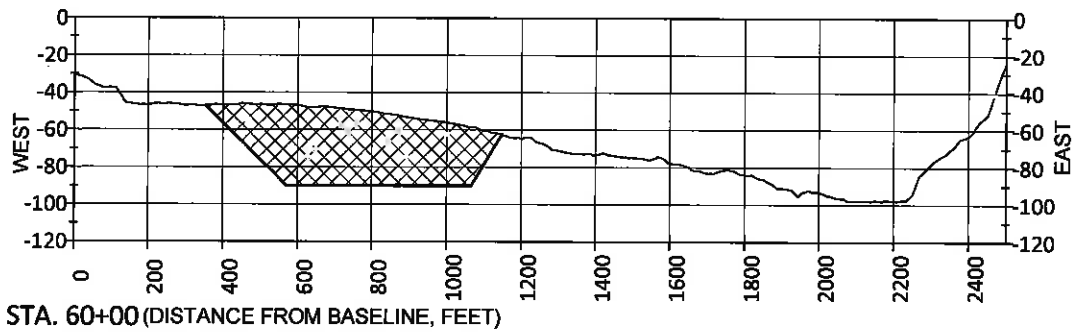
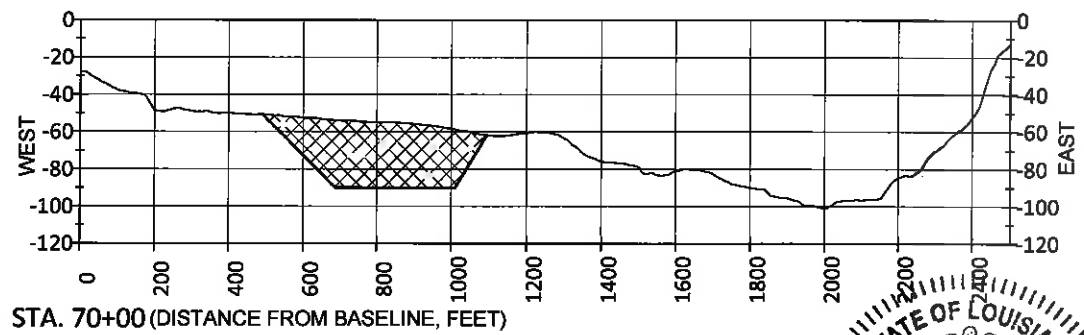
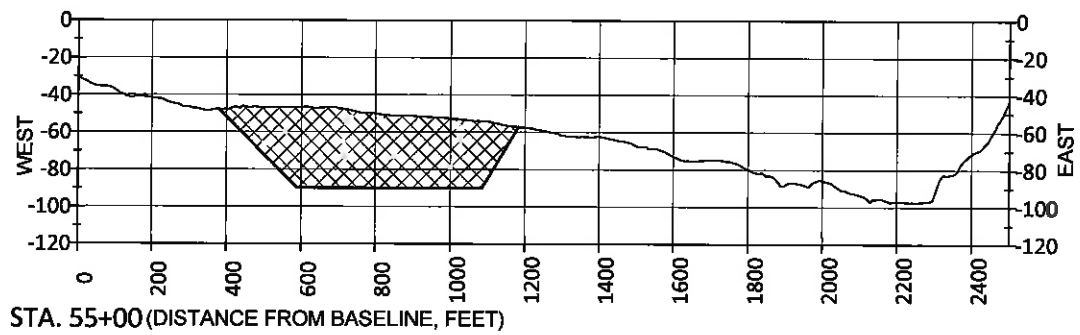
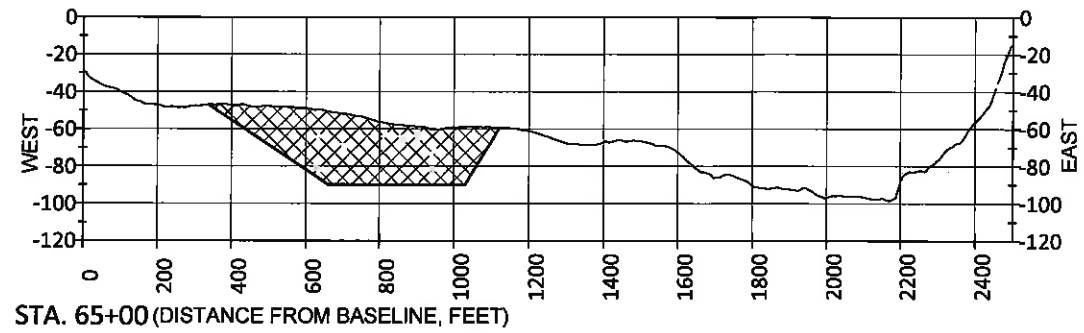
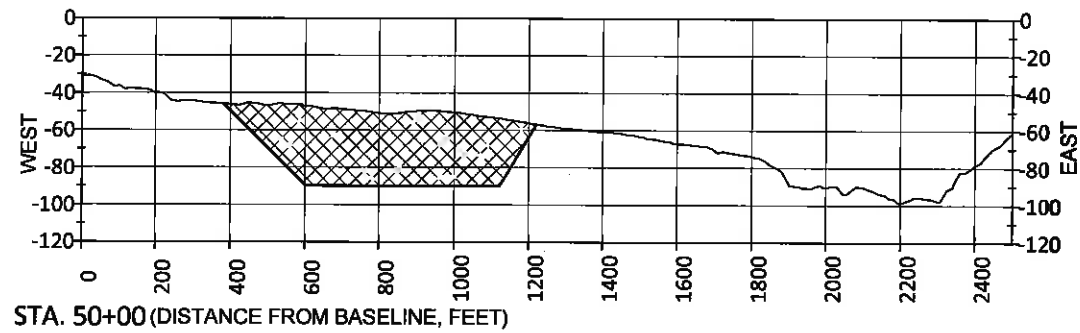
APPROVED BY: MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

ALLIANCE ANCHORAGE BORROW AREA SECTIONS  
 SHEET 1 OF 2

DATE: MARCH 8, 2013

SHEET 79 OF 81



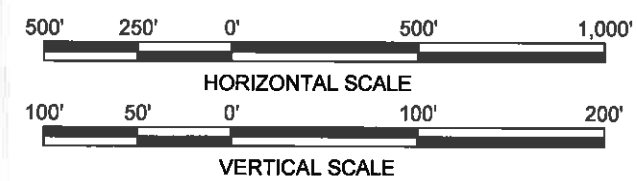
STATE OF LOUISIANA  
 ★ ★  
 RUSS J. JOFFRION  
 License No. 27661  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Russ Joffrion*  
 3.12.2013

STATE OF LOUISIANA  
 ★ ★  
 JONATHAN HIRD  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 03/12/2013

- NOTES:
1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.

**FINAL BID SET**

| LEGEND |                       |
|--------|-----------------------|
|        | BORROW AREA           |
|        | EXISTING RIVER BOTTOM |



| REV. | DATE | DESCRIPTION | BY |
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|      |      |             |    |
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|      |      |             |    |

**MOFFATT & NICHOL**  
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 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

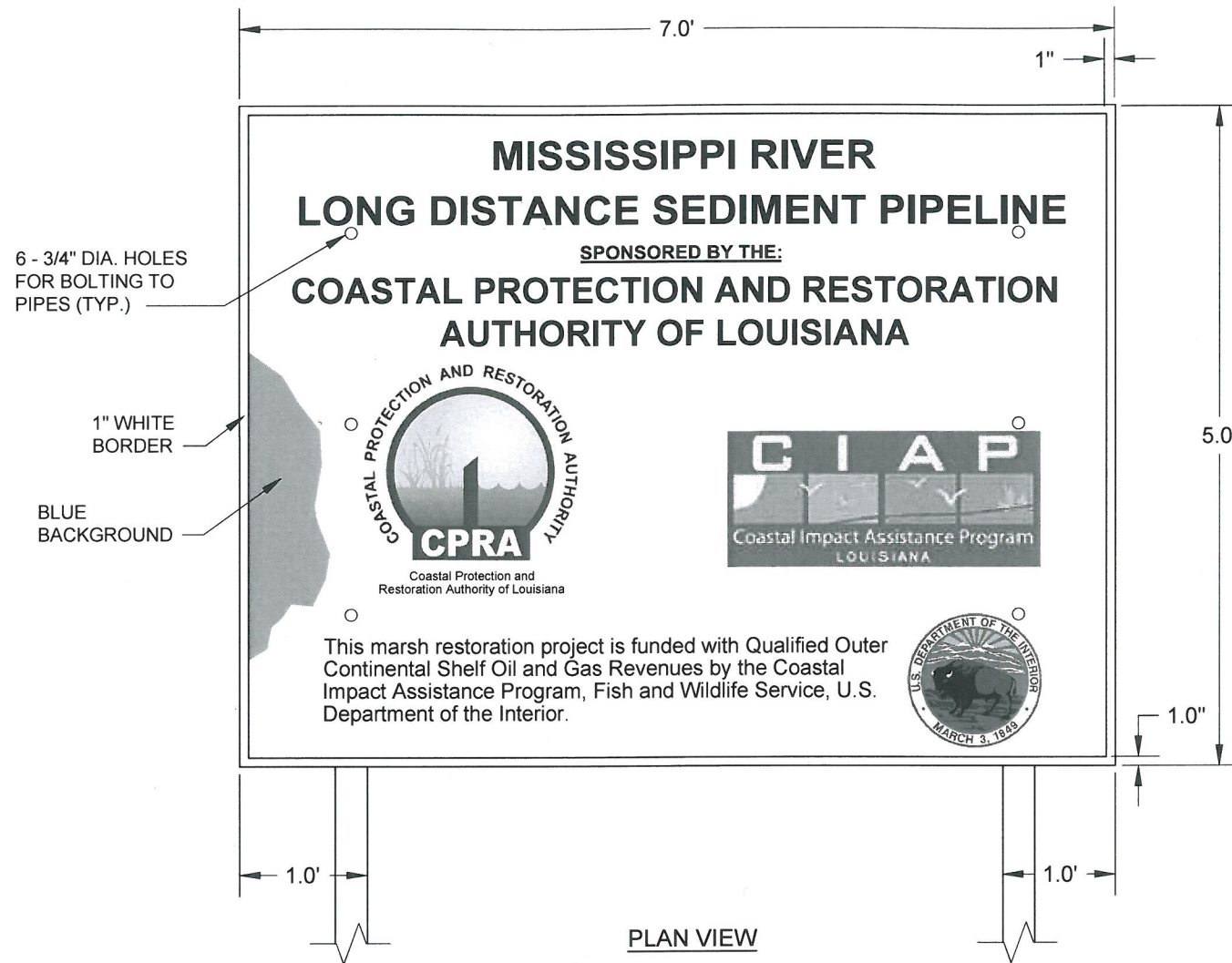
**COASTAL PROTECTION AND RESTORATION AUTHORITY**  
 450 LAUREL STREET  
 BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48  
 APPROVED BY: MAURY CHATELLIER, P.E.

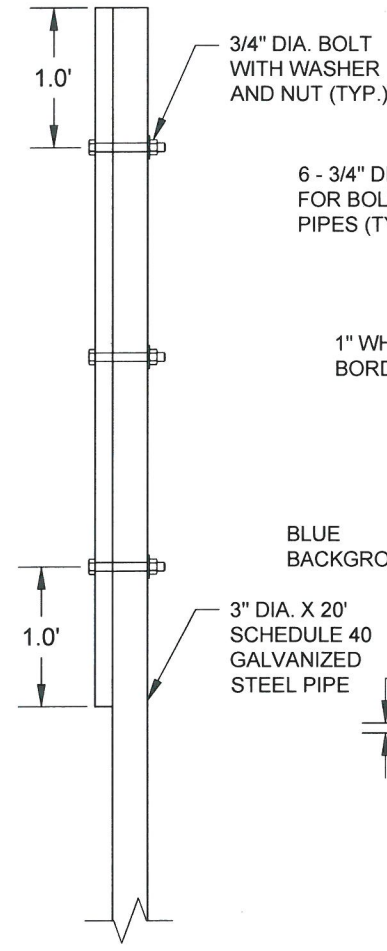
ALLIANCE ANCHORAGE BORROW AREA SECTIONS SHEET 2 OF 2  
 DATE: MARCH 8, 2013  
 SHEET 80 OF 81

DRAWN BY: YC      DESIGNED BY: SA

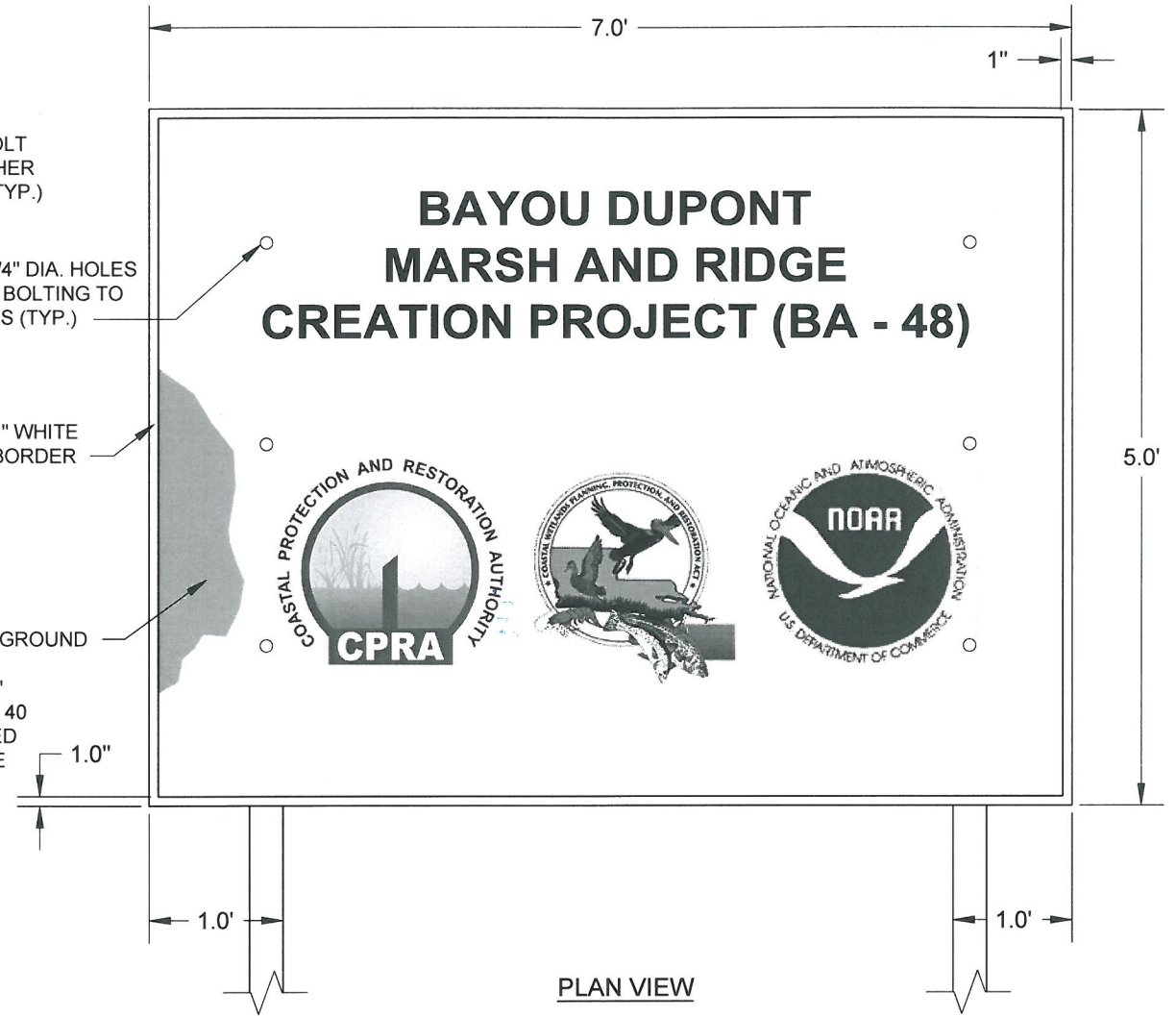




PLAN VIEW



SIDE VIEW



PLAN VIEW

21 PROJECT FUNDING SIGN  
38 NOT TO SCALE

22 PROJECT FUNDING SIGN  
- NOT TO SCALE

NOTES:

1. PROJECT FUNDING SIGN SHALL BE MOUNTED ON TWO (2) THREE (3) INCH DIAMETER BY TWENTY (20) FOOT LONG, SCHEDULE 40 GALVANIZED STEEL PIPES EMBEDDED TO A DEPTH OF AT LEAST TEN (10) FOOT. SIGN SHALL BE ATTACHED TO PILES OR PIPES WITH SIX (6) 3/4\"/>
2. BOTTOM EDGE OF SIGN SHALL BE APPROXIMATELY FIVE (5) FOOT ABOVE THE GROUND WITH FRONT FACING THE WATER, PARALLEL TO THE GROUND CREST.
3. SIGN PLACEMENT AT THE DIRECTION OF ENGINEER.

STATE OF LOUISIANA  
**JONATHAN HIRD**  
 License No. 32299  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING  
*Jonathan Hird*  
 07/18/2013

| REV. | DATE    | DESCRIPTION             | BY |
|------|---------|-------------------------|----|
| 1    | 7/18/13 | ADDITIONAL PROJECT SIGN | SA |

**MOFFATT & NICHOL**  
 ONE AMERICAN PLACE  
 301 MAIN STREET, SUITE 800  
 BATON ROUGE, LA 70825  
 225-336-2075

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

DRAWN BY: YC      DESIGNED BY: SA

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION  
 STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

APPROVED BY: MAURY CHATELLIER, P.E.

**FINAL BID SET**

PROJECT FUNDING SIGNS  
 DATE: MARCH 8, 2013  
 SHEET 81 OF 81