GENERAL NOTES:


2. BACKGROUND AERIAL IMAGES SHOWN ON THE PLANS ARE FROM U.S. DEPARTMENT OF AGRICULTURE (USDA) NATIONAL AERIAL IMAGERY PROGRAM (NAIP), OCTOBER 2010.

3. 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 PSSL. ESTIMATED Fill QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND ARE BASED ON THESE SURVEYS. QUANTITIES WERE CALCULATED USING AUTOCAD DIGITAL TERRAIN MODELS.

4. FOUR CPA SECONDARY BENCHMARKS WERE USED AS HORIZONTAL AND VERTICAL SURVEY CONTROL FOR ALL FILL AREA SURVES: BA41-SM-01, BA23-SM-02, BA41-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.

SECONDARY SURVEY MONUMENT

NORTHING EASTING

BA41-SM-01 438,792.62 3,708,237.23
BA41-SM-02 423,541.04 3,701,364.95
BA23-SM-01 403,723.83 3,589,575.00
BA41-SM-01 417,912.61 3,673,085.63

5. 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.

6. THE CORRIDOR AND MARSH CREATION SITES AND MISSISSIPPI RIVER BORROW AREAS MAY BE REVISITED BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

7. 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.

8. 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 MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY. CALL

MISSISSIPPI RIVER SUBMERGED PLAINS PIPELINE, L.P.
PHONE: (504) 219-4207
CONTACT: GARY HERGERT
PHONE: (985) 850-1253
CONTACT: FRANK CARDEN

ABBREVIATIONS:

AC ACRES
AHP ABOVE HEAD OF PASSES
DOSP LONG DISTANCE SEGMENT PIPELINE
LWRP LOW WATER REFERENCE PLANE
MCY MILLION CUBIC YARDS
MHW MEAN HIGH WATER
MLW MEAN LOW WATER
MLP MISSISSIPPI RIVER PIPELINE
MRT LEVEL MISSISSIPPI RIVER & TRIBUTARIES LEVEE
SP SETTLEMENT PLACE
UON UNLESS OTHERWISE NOTED

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

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<th>DESCRIPTION</th>
<th>UNIT</th>
<th>ESTIMATED QUANTITY</th>
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ADDITIVE ALTERNATE #1

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

MISSISSIPPI RIVER LSPD AND BAYOU ROUTE CREATION
STATE PROJECT NUMBER: BA-01 (LSP) AND BA-06

FINAL BID SET

MISSISSIPPI RIVER (LSPD) AND BAYOU ROUTE CREATION
STATE PROJECT NUMBER: BA-01 (LSP) AND BA-06

GENERAL NOTES, SPECIFICATIONS AND ESTIMATED QUANTITIES SHEET OF 2

DATE: MARCH 18, 2013

DRAWN BY: VC
REDESIGN BY: SA
APPROVED BY: MAURY CHATELLIER, P.E.
SHEET 2 OF 2
1. CONCRETE AND REINFORCING STEEL:

   1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED.
   2. ALL CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE.
   3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, ACI 315 AND ACI SP-66.
   4. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC CODES AND REFERENCES (LATEST EDITION):
      - GRAVITY LOADS:
      - SEISMIC LOAD AS REQUIRED BY THE ASCE-7 STANDARD BUILDING CODE INSTRUCTIONS.
      - ADDITIONAL DREDGING NOTES
   5. PROVIDE CONCRETE COVER OVER REINFORCEMENT IN ACCORDANCE WITH ACI 318, UON.
   6. PROVIDE A BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL ON ALL WALKING SURFACES.
   7. PROVIDE ANCHOR WITHIN THE DREDGE ANCHOR LIMITS SHOWN ON SHEETS 7 AND 8.

2. PRECAST CONCRETE:

   1. PRECAST CONCRETE SHEETS SHALL BE FABRICATED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
   2. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
   3. TIMBER MATERIALS:
      - LAGGING..............MARINE GRADE NO.1(S4S)
      - LAG SCREWS.............ASTM A307, GALV
      - ANCHOR BOLTS...........ASTM F1554, GRADE 55, GALV
      - TERMINAL BOLTS.........ASTM D25
      - TIMBER PILE AXIAL COMPRESSION CAPACITY:
         - 20 TONS (ALLOWABLE): 40 TONS (ULTIMATE)

3. MISC MATERIALS:

   1. 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 NOTED. ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED.
   2. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, ACI 315 AND ACI SP-66.
   3. 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 NOTED. ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED.
   4. 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 A790. IN ADDITION, ALL EXPOSED TREATED THREADS SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

4.デザインカタログ

   1. GRAVITY LOADS:
      - LIVE LOAD: H520 TRUCK
   2. SEISMIC LOAD AS REQUIRED BY THE ASCE-7 STANDARD BUILDING CODE (AMERICAN SOCIETY OF CIVIL ENGINEERS), PGA..............0.088g
   3. CODES AND REFERENCES LATEST EDITION:
      - AISC - (AMERICAN INSTITUTE OF STEEL CONSTRUCTION)
      - ACI - (AMERICAN CONCRETE INSTITUTE)
      - ASCE - (AMERICAN SOCIETY OF CIVIL ENGINEERS)
      - AWS - D1.1 (AMERICAN WELDING SOCIETY)
      - IBC - (INTERNATIONAL BUILDING CODE)

5. ADDITIONAL DREDGING NOTES:

   1. THE CONTRACTOR SHALL Anchor WITHIN THE DREDGE anchor LIMITS SHOWN ON SHEETS 7 AND 8.
   2. DREDGE anchor LIMITS SHALL BE MARKED WITH BUOYS AS SHOWN ON SHEETS 7 AND 8 IN ACCORDANCE WITH USCG REGULATIONS.
   3. DREDGING BEYOND THE BORROW AREA LIMITS SHOWN WILL NOT BE ALLOWED.
   4. DREDGING WILL BE ALLOWED TO A MAXIMUM DEPTH OF -90 FT NAVD88.
   5. 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.
LEGEND
- BORROW AREA
- EXISTING REVETMENT
- PERMANENT ACCESS CORRIDOR
- DREDGE PIPELINE ROUTE
  (FLOATING OR SUBMERGED)
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING PIPELINES
- EXISTING OVERHEAD LINES
- APPROX. SALT WATER BARRIER C.L.

MISSISSIPPI RIVER MILE (AHP)

EXISTING CONTOUR MAJOR
-80

EXISTING CONTOUR MINOR
-60

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

ALLIANCE ANCHORAGE
BORROW AREA

RENEW

WEST RAVENNA ROAD

20" SHELL PIPELINE

PLAQUEMINES PARISH

Naomi

DREDGE PIPELINE ROUTE

WILLS POINT  ANCHORAGE
BORROW AREA

WILLS POINT ANCHORAGE
BORROW AREA

FLOOD PROTECTION LEVEE

PARISH BOUNDARY

PLAQUEMINES PARISH

APPROX. SALT WATER BARRIER C.L. (OCT 1999)

APPROX. SALT WATER BARRIER C.L. (JUL 1988)

APPROX. SALT WATER BARRIER C.L. (AUG 2012)

PERMANENT ACCESS CORRIDOR

JEFFERSON PARISH

PHILLIPS 66

REFINERY

DOCKS

WEST RAVENNA ROAD

ENBRIDGE 2-10"
GAS PIPELINES

AMERICAN MIDSTREAM
3-12" GAS PIPELINES

MISSISSIPPI RIVER MILE (AHP)

66

PL

PERMANENT ACCESS CORRIDOR

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

LEGEND
- EXISTING REVETMENT
- PERMANENT ACCESS CORRIDOR
- DREDGE PIPELINE ROUTE
  (FLOATING OR SUBMERGED)
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING PIPELINES
- EXISTING OVERHEAD LINES
- APPROX. SALT WATER BARRIER C.L.

MISSISSIPPI RIVER MILE (AHP)

EXISTING CONTOUR MAJOR
-80

EXISTING CONTOUR MINOR
-60

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

ALLIANCE ANCHORAGE
BORROW AREA

RENEW

WEST RAVENNA ROAD

20" SHELL PIPELINE

PLAQUEMINES PARISH

Naomi

DREDGE PIPELINE ROUTE

WILLS POINT  ANCHORAGE
BORROW AREA

WILLS POINT ANCHORAGE
BORROW AREA

FLOOD PROTECTION LEVEE

PARISH BOUNDARY

PLAQUEMINES PARISH

APPROX. SALT WATER BARRIER C.L. (OCT 1999)

APPROX. SALT WATER BARRIER C.L. (JUL 1988)

APPROX. SALT WATER BARRIER C.L. (AUG 2012)

PERMANENT ACCESS CORRIDOR

JEFFERSON PARISH

PHILLIPS 66

REFINERY

DOCKS

WEST RAVENNA ROAD

ENBRIDGE 2-10"
GAS PIPELINES

AMERICAN MIDSTREAM
3-12" GAS PIPELINES

MISSISSIPPI RIVER MILE (AHP)

66

PL

PERMANENT ACCESS CORRIDOR

NOTE:
1. RIVER CONTOURS SHOWN ARE BASED ON OSI SURVEY DATED AUGUST 17, 2011 AND REFER TO NAVD88.
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.
USACE NAVIGATION PROJECT DEPTH = -45'

EXISTING RIVER BOTTOM EL. = -90.0' MAX.

BORROW AREA

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

0

BORROW AREA WORK POINTS 2, 3 & 4

BORROW AREA WORK POINTS 1 & 5

BORROW AREA WORK POINTS 1 - 9

1160' AT EL. -40'

BORROW AREA WORK POINTS 10 - 21

125'

DREDGE PIPELINE (SEE NOTES 2 & 3)

DREDGE PIPELINE LIMIT OF PERMISSIBLE EXCAVATION

Borrow Area Work Points 1 - 9

BORROW AREA WORK POINTS 2, 3 & 4

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

DREDGE ANCHOR LIMIT

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

DREDGE ANCHOR LIMIT

MISSISSIPPI RIVER & TRIBUTARIES LEVEE

DREDGE PIPELINE

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.
NOTES:
1. 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.
2. ALL EXISTING PIPELINES LOCATED WITHIN 15' OF THE DREDGE ALIGNMENTS, PUMP AREAS, OR ACCESS CORRIDOR SHALL BE PROBED AND THEIR LOCATIONS MARKED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 50' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' ON ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
5. THE CONTRACTOR'S ACCESS CORRIDOR AND CONSTRUCTION LIMITS SHALL BE SUBMITTED TO THE WORK PLAN AS PER THE SPECIFICATIONS.
6. THE DREDGE PIPELINE SHALL BE PlACED ON THE SOUTH SIDE OF WEST RAVENNA ROAD.
7. SEE SECTIONS TS-2.5 AND TS-2.6 OF THE SPECIFICATIONS FOR INFORMATION REGARDING DREDGE PIPELINE CROSSINGS.
8. THE CONTRACTOR SHALL VERIFY WATER LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
9. SEE SHEETS 36 TO 43 FOR CROSSING DETAILS.
10. FOR PERMANENT ACCESS CORRIDOR ALIGNMENT COORDINATES SEE TABLE ON SHEET 23.
NOTES:
1. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 50' OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50' OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPES.
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.
CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

PERMANENT ACCESS CORRIDOR AT EXISTING GRADE, REACH 1 (NO FILL) (SEE TYP. SECTION 1 ON SHT. 24)

REPLACE EXISTING BRIDGE WITH NEW BRIDGE (SEE DETAILS ON SHTS. 48 TO 52)

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

PERMANENT ACCESS CORRIDOR AT EXISTING GRADE, REACH 1 (NO FILL) (SEE TYP. SECTION 1 ON SHT. 24)

PERMANENT CANAL CROSSING (SEE DET. 9 ON SHT. 44)

PERMANENT ACCESS CORRIDOR AT EXISTING GRADE, REACH 1 (NO FILL) (SEE TYP. SECTION 1 ON SHT. 24)

PLAQUEMINES PARISH

LEGEND

PERMANENT ACCESS CORRIDOR
ACCESS CORRIDOR BASELINE
INFLECTION POINT ALONG ACCESS CORRIDOR
ACCESS CORRIDOR LIMITS
LDSP SOIL BORINGS
LDSP CONE PENETROMETER TEST (CPT)
LDSP SOIL BORINGS AND CPT
EXISTING PIPELINES
PARISH BOUNDARY

JEFFERSON PARISH

PERMANENT ACCESS CORRIDOR BASELINE

REPLACE EXISTING BRIDGE WITH NEW BRIDGE (SEE DETAILS ON SHTS. 48 TO 52)

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

MATCHLINE TO SHT. 10 (STA. 223+12.07)

BEGINNING OF REACH 1

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 COORDINATES SEE TABLE ON SHEET 23.

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

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

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

DATE: MARCH, 2013

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

SHEET 12 OF 81
LEGEND

- PERMANENT ACCESS CORRIDOR
- MARSH CREATION
- ACCESS CORRIDOR BASELINE
- INJECTION POINT ALONG ACCESS CORRIDOR BASELINE
- CORRIDOR LIMITS
- TOE OF SLOPE
- LDSP EARTHEN CONTAINMENT DIKE CENTERLINE
- WORK LIMITS
- LDSP SOIL BORINGS
- SP-1
- SETTLEMENT PLATE
- EXISTING PIPELINES
- B-40
- CPT-6
- LDSP CONE PENETROMETER TEST (CPT)
- B/CPT-7
- LDSP SOIL BORINGS AND CPT
- SP-2
- WORK LIMITS

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.
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 earthen containment dike layout details and centerline coordinates.

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. SEE SHEET 22 FOR LDSP REACH 5 AND 6 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.

5. SEE SHEET 22 FOR LDSP REACH 5 AND 6 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.
BA-48 MARSH CREATION
AREA 1 (FILL TO EL. +3.0' ± 0.5')
(SEE TYPICAL SECTIONS 9 & 10
ON SHEET 28)

APPX. TOE OF CONTAINMENT DIKE
OR EARTHEN RIDGE

BA-48 RIDGE CREATION
(SEE SEC. 13 ON SHEET 29)

APPX. TOE OF CONTAINMENT DIKE
OR EARTHEN RIDGE

EXPANDED BA-48 MARSH CREATION
AREA 1 (SEE SEC. 14 ON SHEET 30)

EXPANDED BA-48 MARSH CREATION
AREA 2 (FILL TO EL. +3.3' ± 0.5')
(SEE TYPICAL SECTIONS 9 & 11
ON SHEET 28)

APPROX. TOE OF SLOPE OF
EARTHEN CONTAINMENT DIKE

WORK LIMITS

EXISTING PIPELINES

EXISTING PIPELINES

EARTHEN CONTAINMENT DIKE

EARTHEN CONTAINMENT DIKE (BASE BID ONLY)

EARTHEN CONTAINMENT DIKE (BASE BID ONLY)

TOP OF RIDGE (FILL TO EL. +4.5' ± 0.5')

TOP OF RIDGE (FILL TO EL. +4.5' ± 0.5')

TOP OF RIDGE (FILL TO EL. +4.5' ± 0.5')

BA-48 SOIL BORINGS

BA-48 MAGNETOMETER POINT OF INTEREST

BA-48 MAGNETOMETER POINT OF INTEREST

B2-48 MAGNETOMETER POINT OF INTEREST

SP-7 SETTLEMENT PLATE

MATCHLINE TO SHEET 18

TOTAL 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 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.

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

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

STATE PROJECT NUMBER: BA-41 (EB) AND BA-48

DATE: MARCH 8, 2013

APPROVED BY: MAURY CHATELLIER, P.E.

REV. DATE DESCRIPTION
00

DETAILED DESIGN SHEET 19 OF 21
**LEGEND**

- PERMANENT ACCESS CORRIDOR
- LDSP MARSH CREATION
- LDSP EXPANDED MARSH CREATION
- ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG ACCESS CORRIDOR BASELINE
- INFLECTION POINT ALONG LDSP UNCONTAINED EDGE OF MARSH PLATFORM CENTERLINE
- 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-20 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 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 AND 6 EARTHEN CONTAINMENT DIKE LAYOUT DETAILS AND CENTERLINE COORDINATES.**

**APPENDIX**

- WORK LIMITS
- APPROX. TOE OF SLOPE
- TOP OF SLOPE
- MIDSTREAM PIPELINE
- MARSH APRON PLATFORM
- MARSH PLATFORM
- APPROX. TOE OF SLOPE
- 18' PLAINS PIPELINE
- 24' CENTRAL CRUDE PIPELINE
- END OF REACH 6 (STA. 570+22.00)
- PERMANENT ACCESS CORRIDOR (FILL TO EL. +30.0 ± 0.5)
- NO EXCAVATION WITHIN 50 FEET OF EXISTING PIPELINES
- 3' PIPELINE
- 2' PIPELINE
- 3' PIPELINES
- 3' PIPELINES
- 2' PIPELINE
- EXPOSED PIPELINE
- NO EXCAVATION WITHIN 50 FEET OF EXISTING PIPELINES
- 2' PIPELINE

**FINAL BID SET**

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

**MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION**
400 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

**STATE PROJECT NUMBER:** BA-01 (ER) AND BA-06

**ACCESS CORRIDOR AND ADDITIVE ALTERNATE #2:**

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**STATE PROJECT NUMBER:** BA-01 (ER) AND BA-06

**EXACT LOCATION:** BATON ROUGE, LOUISIANA 70801

**DRAFTED BY:**

**APPROVED BY:**

**DATE:** MARCH 8, 2013

**SHEET 21 OF 81**
<table>
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<tr>
<th>EASTING</th>
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<th>AREA 1</th>
<th>DIKE CENTERLINE</th>
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</tr>
</tbody>
</table>

**NOTE:**
1. LOCATION OF SETTLEMENT PLATE COORDINATES COORDINATED WITH THE FIELD ENGINEER.
2. POCKET BOATER PUMP LOCATIONS

**FINAL BID SET**

**PROPOSED SETTLEMENT PLATE COORDINATES (SEE NOTE 1)**

**EASTING:**

- A 3,694,287.90 411,690.93
- B 3,694,635.30 408,299.10
- C 3,694,982.70 404,897.30
- D 3,695,323.10 401,495.60

**NORTHING:**

- A 3,694,287.90 411,690.93
- B 3,694,635.30 408,299.10
- C 3,694,982.70 404,897.30
- D 3,695,323.10 401,495.60
NOTE: EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26TH THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.

EXISTING CANAL

EXISTING WATER BOTTOM

MLW=0.5'

MLW=0.87'

MHW=0.87'

280'

340' - 450'

90' (TYP.)

BASELINE (INFL. PTS. 47 - 51)

60' (TYP.)

PERMANENT ACCESS CORRIDOR

FILL EL.:+3.0' ± 0.5'

220' (TYP.)

MARSH PLATFORM

24' - 42'

25' MIN.

EXISTING GRADE EL. = -2.5' TO +1.0'

CONTAINMENT BORROW AREA

MLW=0.5'

MLW=0.87'

EXISTING WATER BOTTOM

24' - 42'

25' MIN.

30'

280'

340' - 450'

90' (TYP.)

BASELINE (INFL. PTS. 13 - 17)

60' (TYP.)

PERMANENT ACCESS CORRIDOR

FILL EL.:+2.5' ± 0.5'

310' (TYP.)

MARSH PLATFORM

25'

50' - 180'

MARSH APRON

30'

370'

EXISTING GRADE EL. = -3.0' TO +1.0'

CONTAINMENT BORROW AREA

NOTE: EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26TH THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.
NOTE:
EXISTING GROUND ELEVATIONS BASED ON TOPOGRAPHIC SURVEYS PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH, LLC.
ELEVATIONS IN FEET, NAVD 88
EXISTING WATER BOTTOM
EL. VARIES (-20.0 MAX.)

MHW = +0.87'
MLW = +0.50'

MARSH CREATION
FILL EL. = +3.0' ± 0.5'

EARTHEN CONTAINMENT DIKE
BORROW AREA

EARTHEN RIDGE
COVER
(RELOCATED "AREA C")

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

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

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801
STATE PROJECT NUMBER: BA-43 (EB) AND BA-48

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

DATE: MARCH 8, 2013

FINAL BID SET
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.
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.
NOTES:
1. CONTOURS SHOWN ARE BASED ON SIGMA SURVEY DATED DECEMBER 2011.
2. FOR TIMBER PILE CLUSTER AND NAVIGATIONAL AID DETAILS SEE SHEET 54.

NAVIGATION SIGNS AND OBSTRUCTION LIGHTS COORDINATES

ANCHOR BLOCK COORDINATES

WEIR CENTERLINE COORDINATES

NAVIGATIONAL BUOY COORDINATES

FINAL BID SET
NEW ORLEANS AND GULF COAST RAILROAD EMBANKMENT

MISSISSIPPI RIVER AND TRIBUTARY LEVEE (SEE SHT. 38 FOR CROSSING DETAIL)

ELEVATIONS IN FEET, NAVD88
SEE SHT. 36 FOR RAILROAD CROSSING DETAIL

LEVEE INSPECTION ROAD (SEE SHT. 39 FOR CROSSING DETAIL)

EXISTING GROUND
CASING PIPE
BRACED EXCAVATION

EXISTING 48" Ø STEEL CASING PIPE
BRACED EXCAVATION

SEE SHT. 37 FOR HIGHWAY CROSSING DETAIL

LA 23 TRAVEL LANE

E-R DREDGE PIPELINE CORRIDOR SECTION

DREDGE PIPELINE CORRIDOR SECTION

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

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

STATE PROJECT NUMBER: BA-01 (EB) AND BA-08

DATE: MARCH 8, 2013

FINAL BID SET
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.

- REMOVE EXISTING CASING PIPE CAP FROM EACH END OF CASING PIPE AND REPLACE AFTER DREDGE PIPELINE IS REMOVED, SEE DET. 20 ON SHT. 56.

RAILROAD EMBANKMENT
EXISTING DITCH BOTTOM
EXISTING SMOOTH STEEL CASING PIPE 48" OUTSIDE Ø 5/8" THICKNESS
BRACED EXCAVATION TO FACILITATE TEMPORARY PLACEMENT OF DREDGE PIPELINE (MAX. WIDTH = 20.0')
DREDGE PIPELINE
AS-BUILT EL. = -1.47'
AS-BUILT EL. = -2.16'
40.1'
8.75'
5.0'
5.0'
40.1'
170.2'
- EXISTING GROUND
- PROPOSED CASING PIPE MARKER (SEE DET. 19 ON SHT. 56)
- BRACED EXCAVATION TO FACILITATE TEMPORARY PLACEMENT OF DREDGE PIPELINE (MAX. WIDTH = 20.0')
NOTES:

1. 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.

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.
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.
NOTES:
1. MISSISSIPPI RIVER LEVEE INSPECTION ROAD IS AT THE LANDSIDE TOE OF THE MISSISSIPPI RIVER LEVEE.
2. THE CROWN RAMP OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMP. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LA DOTD 2006 SPECIFICATION 1003.04 (a).
3. TEMPORARY PIPELINE MARKERS INDICATING OWNER, CONTENTS, AND ADDRESS FOR CONTACTING OWNER SHALL BE PLACED AND MAINTAINED AT EACH TOE OF LEVEE NEAR DREDGE PIPELINE LOCATION TO BE APPROVED BY ENGINEER AND INCLUDED IN WORK PLAN.

MISSISSIPPI RIVER LEVEE INSPECTION ROAD CROSSING DETAIL

PLAN VIEW

SECTION C-C

SECTION B-B

FINAL BID SET
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).

FINAL BID SET

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

MAURY CHATELLIER, P.E.
MARCH 8, 2013

DRAWN BY: VC
DESIGNED BY: LA
APPROVED BY: MAURY CHATELLIER, P.E.

DATE: MARCH 8, 2013
SHEET #1 OF 8
NOTE:
The crown ramp over the pipeline crossings shall consist of crushed stone for full width and length of ramp. The crushed stone material shall conform to LA DOTD 2006 Specification 1003.04 (a).

**PLAN VIEW**

**SECTION A-A**

**GRAVEL ROAD CROSSING DETAIL**

NOT TO SCALE
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.

FLOOD PROTECTION LEVEE CROSSING DETAIL

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

FINAL BID SET
SLOPE PROTECTION (SEE DET. A ON THIS SHEET)

PERMANENT CROSSING

"EL. +4.0'"

SLOPE 20:1

SLOPE 20:1

2:1

2:1

40'

TYP.

30'

TYP.

WEST

PLAN

PROFILE

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

PERMANENT CANAL CROSSING DETAIL

CONSTRUCTED MARSH RESTORATION PROJECT (BA-39)

30" CULVERTS

(INVERT EL. -3.0')

APPROX. EXISTING GRADE

MACMAT R OR APPROVED EQUAL & COCONUT FIBER MAT

(SEE DETAIL A ON THIS SHEET)

GEOTEXTILE FABRIC

SOIL ANCHOR, SPACING AND TENSION PER MANUFACTURER'S RECOMMENDATIONS

COMPACTED FILL TO MIN. 50% LA DOTD TR 418

BROADCAST FILL MATERIAL ACROSS RIPRAP

RIPRAP (d=±12") (MIN. 15" DEEP)

LOCAL BRUSHY SEED MIXTURE

COMPACTED FILL TO MIN 95% LA DOTD TR 418

RIPRAP

MACMAT R OR APPROVED EQUAL COCONUT FIBER MAT

SOIL ANCHOR

GEOGRAPHICAL FABRIC BOTTOM OF CANAL EL.-3.0'

MLW = 0.50'

MHW = 0.87'

BOTTOM OF CANAL (EL.-3.0')

PERMANENT CANAL CROSSING DETAIL

PERMANENT CANAL CROSSING DETAIL

FINAL BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

PERMANENT CANAL CROSSING DETAIL

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

DATE: MARCH 8, 2013
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.
EXISTING DRAINAGE MUST NOT BE IMPEDED.

1. THE LAND BASED BOOSTER LOCATION SHALL BE SUBMITTED IN THE CONTRACTOR'S WORK PLAN FOR APPROVAL.

2. OVERHEAD POWER LINE INFORMATION SHOWN ON PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY POWER LINE LOCATION(S) PRIOR TO BEGINNING CONSTRUCTION.

3. EXISTING DRAINAGE MUST NOT BE IMPEDED.

EXISTING FENCE TO BE REMOVED AND REPLACED TO EXISTING CONDITIONS.

EXISTING TREES

EXISTING GATE

EXISTING 15' CULVERT CROSSING

450' 100'

DREDGE PIPELINE

GRAVEL ROAD CROSSING (SEE DET. 7 ON SHT. 42)

DRAINAGE DITCH CROSSING

DRAINAGE DITCH CROSSING

GRAVEL ROAD CROSSING (SEE DET. 7 ON SHT. 42)

DREDGE PIPELINE

GRAVEL ROAD CROSSING (SEE DET. 7 ON SHT. 42)
**Plan Existing Bridge**

- Existing metal grate bridge
- 12" ø timber pile
- 12" ø creosote timber pile
- 2 vinyl sheet piles
- 4" x 12" timber
- 2" x 8" timber
- 3" x 8" timber
- 10" ø timber anchor pile
- 10" ø timber pressure treated pile
- 3/4" ø through bolt
- 3/4" ø tie rod

**Plan Proposed Bridge**

- Precast solid concrete slab bridge deck
- Top of bridge elev. 13.47
- 6" curb
- 3" x 10" timber lagging
- 13" ø timber pile
- 12" ø timber anchor pile
- 10" ø timber pressure treated pile
- 2" vinyl sheet piles (to remain)
- 3" x 8" timber (to remain)
- 2" x 8" timber (to remain)
- 3" x 10" timber (to remain)
- 10" ø tie rod (to remain)
- 3/4" ø tie rod (to remain)
- 13" ø timber pile, typ
- 12" ø tie rod, typ
- Ogee washer, typ
- 21'-9 5/8" out-to-out pile dimension

**Elevation Existing Bridge**

- Existing metal grate bridge
- 12" ø timber pile
- 12" ø creosote timber pile
- 2 vinyl sheet piles
- 4" x 12" timber
- 2" x 8" timber
- 3" x 8" timber
- 10" ø timber anchor pile
- 10" ø timber pressure treated pile

**Elevation Proposed Bridge**

- Precast solid concrete slab bridge deck
- Top of bridge elev. 13.47
- 6" curb
- 3" x 10" timber lagging
- 13" ø timber pile
- 12" ø timber anchor pile
- 10" ø timber pressure treated pile
- 2" vinyl sheet piles (to remain)
- 3" x 8" timber (to remain)
- 2" x 8" timber (to remain)
- 3" x 10" timber (to remain)
- 10" ø tie rod (to remain)
- 3/4" ø tie rod (to remain)
- 13" ø timber pile, typ
- 12" ø tie rod, typ
- Ogee washer, typ
- 21'-9 5/8" out-to-out pile dimension

**Note:**

1. For proposed bridge approaches, see detail 'A' on sheet 49.
NOTES:

1. CONTRACTOR SHALL CAREFULLY PLACE RIP-RAP NEAR EXISTING BULKHEAD TO AVOID DAMAGE TO EXISTING TIE-RODS AND PILES.

2. FOR PROPOSED BRIDGE PLAN, SEE DETAIL C SHEET 48.

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

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

BRIDGE/PIPE CROSSING PLANS
SHEET 2 OF 2
DATE: MARCH 14, 2013

FINAL BID SET
1. Revise anchor length as required to achieve 2 ton pullout capacity.
2. All soil anchor components to be galvanized.
3. Edges of wire mesh to be laced with wire or hog-ringed per manufacturer's recommendation.
4. Usable soil per LA DOTD specification 203.06 utilized for rip-rap fill cover.

SECTION THROUGH TIMBER LAGGING

SECTION AT END BENT

SLOPE AND EMBANKMENT ARMOR

NOTES:

- 1" TIE ROD WITH Ogee WASHER TYP.
- GEOTEXTILE FABRIC, TYPE D (PER LA DOTD SPECIFICATION 1019.01)

SECTION THROUGH TIMBER LAGGING

SECTION AT END BENT

SLOPE AND EMBANKMENT ARMOR

NOTES:

- 1" TIE ROD WITH Ogee WASHER TYP.
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SECTION THROUGH TIMBER LAGGING

SECTION AT END BENT

SLOPE AND EMBANKMENT ARMOR

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SECTION THROUGH TIMBER LAGGING

SECTION AT END BENT

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- 1" TIE ROD WITH Ogee WASHER TYP.
- GEOTEXTILE FABRIC, TYPE D (PER LA DOTD SPECIFICATION 1019.01)

SECTION THROUGH TIMBER LAGGING

SECTION AT END BENT

SLOPE AND EMBANKMENT ARMOR

NOTES:

- 1" TIE ROD WITH Ogee WASHER TYP.
- GEOTEXTILE FABRIC, TYPE D (PER LA DOTD SPECIFICATION 1019.01)
DEBOND 4 STRANDS FOR 5'-0" AT EACH END.

REPLACE SHEAR KEY WITH GROUT RECESS ON OUTER SIDE OF EACH EXTERIOR SECTION.

DRIP EDGE ONLY REQUIRED ON OUTER SIDE OF EACH EXTERIOR SECTION.
ANCHOR BLOCK TO EXISTING SHORELINE

NAVIGATIONAL BUOY (SEE DETAIL A ON THIS SHEET)

EXISTING GROUND

CONCRETE ANCHOR BLOCK (SEE DETAIL B ON THIS SHEET)

NAVIGATIONAL BUOY

ANCHOR BLOCK TO EXISTING SHORELINE (TYP.)

ROCK WEIR

NAVIGATIONAL BUOY

ANCHOR BLOCK TO EXISTING SHORELINE (TYP.)

ROCK WEIR

NAVIGATIONAL BUOY

ANCHOR BLOCK (TYP.)

EXISTING GROUND

ANCHOR BLOCK (TYP.)

CONCRETE ANCHOR BLOCK

MHW = +0.87'
MLW = +0.50'

MHW = +0.87'
MLW = +0.50'

3' TALL BLACK LETTERS (2 SIDES)

2" BAND WIDTH ORANGE SYMBOL (2 SIDES)

3" TALL BLACK LETTERS (2 SIDES)

3' ORANGE REFLECTIVE BAND

3' X 3' X 3' CONCRETE ANCHOR BLOCK

LIFTING EYE (MUST BE CAST INTO THE ANCHOR)

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

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

NOTES:
1. SEE SHEET 34 FOR SIGN PLACEMENT LOCATIONS.
2. ALL DAYMARK NAVIGATION AIDS SHALL ABIDE BY U.S.C.G. REGULATIONS.
3. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3/8" x 8" STAINLESS STEEL LAG SCREW WITH 1 1/4" O.D. STAINLESS STEEL WASHER.

NOTES:
1. SEE SHEET 34 FOR SIGN PLACEMENT LOCATIONS.
2. ALL DAYMARK NAVIGATION AIDS SHALL ABIDE BY U.S.C.G. REGULATIONS.
3. SIGNS SHALL BE SECURED TO TIMBER PILE WITH 3/8" x 8" STAINLESS STEEL LAG SCREW WITH 1 1/4" O.D. STAINLESS STEEL WASHER.
WARNING SIGN NOTES


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 AWPA 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.
DREDGE PIPELINE

PIECE OF CONTENTS

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

PROPERTY OF
LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

SETTLEMENT PLATE NOTES:

1. SETTLEMENT PLATES SHALL BE HOT DIPPED AND GALVANIZED AFTER FABRICATION.
2. SETTLEMENT PLATES SHALL BE PLACED NOT TO IMPED 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.

TEMPORARY PIPELINE MARKER NOTES:

1. MARKERS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH LA DOTD 2006 STANDARD SPECIFICATION 739.
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.

CASING PIPE MARKER NOTES:

1. EXISTING MARKERS ON EACH SIDE OF LOUISIANA HIGHWAY 23 AT EACH END OF THE CASING PIPE SHALL BE TEMPORARILY REMOVED AND RE-INSTALLED IN ACCORDANCE WITH LA DOTD 2006 STANDARD SPECIFICATION 739.
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.

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 LA DOTD 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 FULL 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 CAP DETAILS.

FINAL BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY

MISSISSIPPI RIVER LDSP AND
BAYOU DUPTON MARSH & RIDGE CREATION

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

CASING PIPE CAP, MARKER, AND SETTLEMENT PLATE DETAILS

DATE: MARCH 14, 2015

DESIGNED BY: LA
APPROVED BY: MAURY CHATELLIER, P.E.
PROJECT: COASTAL PROTECTION AND RESTORATION AUTHORITY

DRAWN BY: VC
SHEET NO: 81
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.
NOTES:
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.
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
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

FINAL BID SET

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

Drawn by: VC  Designed by: RJ  Approved by: MAURICE CHATELLIER, P.E.

DATE: MARCH 18, 2013
Sheet 4 of 4
NOTES:
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

FINAL BID SET
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.

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

81

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

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COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

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COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

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COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

81

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

81

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION

BASE BID LDSP FILL AREA SECTIONS (SHEET 4 OF 8)
STATE PROJECT NUMBER BA-01 (EB) AND BA-06
DATE: MARCH 14, 2015

Baton Rouge, Louisiana 70801

817 SA MAURY CHATELLIER, P.E.

81
NOTES:
2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 TO OCTOBER 10, 2011.

LEGEND

- EXISTING GRADE
- FINISHED GRADE
- EARTHEEN CONTAINMENT DIKE
- BORROW AREA
- CORRIDOR AND MARSH CREATION

FINAL BID SET
MAURY CHATELLIER, P.E.

MISSISSIPPI RIVER LDSP AND

400'

20'

200'

10'

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

SOUTH-WEST

SOUTH-WEST

SOUTH-WEST

SOUTH-WEST

-12

-12

-12

-12

-4

-4

-4

-4

0

0

0

0

4

4

4

4

8

8

8

8

HORIZONTAL SCALE

VERTICAL SCALE

400' 200' 0' 400' 800'

20' 10' 0' 20' 40'
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.
NOTES:

2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.
NOTES:


2. EXISTING GRADE PROFILE BASED ON TBS SURVEY PERFORMED FROM JULY 26 THROUGH OCTOBER 10, 2011.
LEGEND

SURVEY BASELINE

SURVEY TRANSECT

BORROW AREA

NOTES:

2. BORROW AREA SURVEY WERE PERFORMED IN AUGUST 2011 BY OSI.
3. SEE SHEET 78, 79 & 80 FOR THE BORROW AREA SECTIONS.
NOTES:
2. RIVER BOTTOM PROFILE BASED ON OBSERVATION SURVEY DATED AUGUST 17, 2011.
NOTES:


2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
NOTES:
2. RIVER BOTTOM PROFILE BASED ON OSI SURVEY DATED AUGUST 17, 2011.
This shoreline protection project is funded with Qualified Outer Continental Shelf Oil and Gas Revenues by the Coastal Impact Assistance Program, Fish and Wildlife Service, U.S. Department of the Interior.

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" DIA. X 4" A307 (HDG) BOLTS WITH WASHERS AND NUTS.

2. BOTTOM EDGE OF SIGN SHALL BE APPROXIMATELY FIVE (5) FOOT ABOVE THE GROUND WITH FRONT FACING THE WATER, PARALLEL TO THE GROUND CREST.

MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE

SPONSORED BY THE:
COASTAL PROTECTION AND RESTORATION AUTHORITY OF LOUISIANA

BLUE BACKGROUND

3/4" DIA. BOLT WITH WASHER AND NUT (TYP.)

1" WHITE BORDER

6 - 3/4" DIA. HOLES FOR BOLTING TO PIPES (TYP.)

3" DIA. X 20 SCHEDULE 40 GALVANIZED STEEL PIPE

SIDE VIEW

PLAN VIEW

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

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

SHEET 21 OF 38

PROJECT FUNDING SIGN

NOT TO SCALE