GENERAL NOTES:


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

3. FILL AREA SURVEY DATA SHOWN ON THE PLANS IS BASED ON FIELD SURVEYS PERFORMED FROM JULY 28 THROUGH OCTOBER 10, 2011 BY T. BAKER SMITH AND IN OCTOBER 2008 BY PEBL. 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 CIVIL ENGINEERING BENCHMARKS WERE USED AS EUROPEAN AND NORTH AMERICAN SURVEY CONTROL FOR ALL FILL AREA SURVEYS. BA24-SM-01, BA24-SM-02, BA24-SM-01 & BA24-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
BA24C-SM-01 438.752 62 3.700.237 23
BA24C-SM-02 433.541 04 3.701.356 92
BA24-CM-03 403.726 57 3.680.575 00
BA41-SM-01 417.912 61 3.673.968 83

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 CORRIDER 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 REGULATING PIPELINE AND UTILITY OPERATORS 72 HOURS IN ADVANCE OF THE WORK. DREDGED PIPELINES IN OPEN WATER SHALL BE MARKED WITH BuoYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MARK BuoYS DURING CONSTRUCTION OR HAVE ACCURATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT Anchor OR EXCAVATE WITHIN 100 FEET OF ANY PIPELINE OR THE MISSISSIPPI RIVER. THE FOLLOWING IS A LIST OF PIPELINE OPERATORS LICENSED TO HAVE PIPELINES IN THE VICINITY. CALL LOUISIANA ONE CALL AT 1-800-272-3025 BEFORE CONSTRUCTION TO LOCATE ANY CONCEALED PIPELINES OR UTILITIES.

SHELL OIL PIPELINE CONTACT: FLETCHER PUDERER PHONE: (504) 416-4011 RIO GRANDE PACIFIC CONTACT: JOHNNY HYDES PHONE: (504) 488-1075

PLAINS PIPELINE, L.P. CONTACT: FRED KARDEN PHONE: (713) 646-4652 EMBRIDGE PIPELINES CONTACT: LEONARD MORRISON PHONE: (504) 339-3200

ENTERGY SUBMERGED TRANSMISSION CONTACT: GARY HUMBERT PHONE: (504) 892-1288 LIQUIDUS INC. CONTACT: HENRY LEON PHONE: (504) 392-1271

ENTERGY OVERHEAD TRANSMISSION LINE CONTACT: JOSEPH GIAMALVA PHONE: (504) 218-4207

SUMMARY OF ESTIMATED QUANTITIES:

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ADDITIVE ALTERNATE #1

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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 BAYOU DUPONT ANCHORAGE BORROW SITE

ADDITIVE ALTERNATE #2

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OPTIONS: TWO BORROW SITE LOCATIONS MAY BE USED FOR THE ALTERNATE ADDITIVE

(A) HYDRAULIC DREDGING AND MARSH FILL FROM ALLIANCE ANCHORAGE BORROW SITE

(B) HYDRAULIC DREDGING AND MARSH FILL FROM BAYOU DUPONT ANCHORAGE BORROW SITE

ABBREVIATIONS:

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

1. 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 COMPARE BIDS AND THE RIGHT IS RESERVED TO THE BIDDER TO INCREASE QUANTITIES AS MAY BE NECESSARY TO COMPLETE THE WORK AND MAINTAIN THE OPEN WATER LIMITS. IN THE EVENT OF MATERIAL SURPLUS/BADWORK, THE UNIT COSTS WILL BE USED TO DETERMINE THE BILLING AMOUNT TO THE CONTRACTOR.

2. THE CONTRACTOR AND THE ENGINEER HAVE AGREED TO THE CONTRACTOR SELLING ALL APPROPRIATE COSTS ASSOCIATED WITH CONSTRUCTING ALL FEATURE LISTED IN THE SPECIFICATIONS AND EXCLUDED IN THE PLANS, I.E. NEW WORK NOT SHOWN IN THE PLANS OR ITEMS FROM A BORROW AREA. THE MOBILIZATION AND DEMOBILIZATION FEE IS FOR CONSTRUCTION AT THE CONTRACTORS BORROW SITE OR PROVIDER.

FINAL BID SET

COASTAL PROTECTION AND RESTORATION AUTHORITY
MISSISSIPPI RIVER LUMP AND BAYOU DUPONT MARSH & RIDGE CREATION
BAYOU DUPONT, LOUISIANA 70449

STATE PROJECT NUMBER: BA-51-1159 AND BA-40

GENERAL NOTES, ABBREVIATIONS AND ESTIMATED QUANTITIES

DRAWN BY: YC
DESIGNED BY: SA
APPROVED BY: MAURICE CHATELLER, P.E.

DATE: MARCH 4, 2015

ONE AMERICAN PLACE - 300 SOUTH MAIN STREET, SUITE 800 BATON ROUGE, L.S. 70802 225-355-2775

Baton Rouge, Louisiana 70449

Sheet 3 of 81
LA DOTD SPECIFICATIONS:

STRUCTURAL EXCAVATION AND BACKFILL: SECTION 802
DRIVEN PILES: SECTION 804
STRUCTURAL CONCRETE: SECTION 808
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:

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 PRACTICAL PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 318, AND ACI 318M-95.
4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   - CONCRETE:
     A. 28 DAY STRENGTH CAST IN-PLACE: 5000 PSI
     B. CEMENTOUS GROUT (UCN): 7000 PSI
     C. PRE-STRESSED CONCRETE: 8000 PSI
   - REINFORCING STEEL:
     A. REINFORCING STEEL AND DOWELS FOR CONCRETE: ASTM A615, GRAD 60
5. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WITH 3/4, 45° CHAMFER, UCN.
6. PROVIDE CONCRETE COVER OVER REINFORCEMENT IN ACCORDANCE WITH ACI 318, UCN.
7. PROVIDE A BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL ON ALL WALKING SURFACES.
8. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318, UCN. SPACING SHALL OCCUR AT 1/2 POINTS OF THE SPAN PER ACI 318, CHAPTER 21. SHEAR CONCRETE SPLICES NOT PERMITTED.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ASCI SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS SHOWN ON DRAWING NO. A-31, SHEET 1 OF 1.
2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UDN:
   A. MISC PLATES, BARS, AND SHAFTS: ASTM A572, GRAD 50, GALV
   B. HIGH STRENGTH BOLTS AND NUTS: ASTM A325, GALV
   C. TIP RODS: ASTM A615, GRAD 75, GALV
   D. LAD BLINDS: ASTM A367, GALV
   E. ANCHOR BOLTS: ASTM F1554, GRAD 55, GALV
3. ALL STEEL SHAFTS, PLATES, AND OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND OR A53, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED. ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED.
4. FIELD TREATED DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED CONDUITS 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:

1. GRAVITY LOADS:
   A. LIVE LOAD: H520 TRUCK
2. SEISMIC LOAD AS REQUIRED BY THE ASCI-7 STANDARD BUILDING CODE (AMERICAN CONCRETE INSTITUTE)
3. CODES AND REFERENCES (LATEST EDITION):
   A. ACI - (AMERICAN CONCRETE INSTITUTE)
   B. ASC - (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) "MANUAL OF STEEL CONSTRUCTION H453, DESIGNATION"
   C. ASCE - (AMERICAN SOCIETY OF CIVIL ENGINEERS)
   D. AWS - D11.1 (AMERICAN WELDING SOCIETY)
   E. IBC - (INTERNATIONAL BUILDING CODE)

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 NAVOBB.
5. THE CONTRACTOR SHALL SUBMIT A DAILY COMMUNICATION PLAN TO THE OWNERS, THE USACE OPERATIONS DIVISION, AND MARITIME NAVIGATION SAFETY ASSOCIATION (MNSS) DELINQUING THE LOCATION OF THE DREDGE, ATTENDANT PLANT, ANCHOR BuoYS, AND FLOATING PIPELINE AS PER THE SPECIFICATIONS.

FOUNDATION:

1. 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 TAMER MANUFACTURERS RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED.
2. SPUDING AND/OR SETTING OF PILES WILL NOT BE ALLOWED.
3. THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS.
4. TIMBER PILE AXIAL COMPRESSION CAPACITY: 40 TONS (ALLOWABLE), 20 TONS (ULTIMATE)
5. THE CONTRACTOR SHALL VERIFY COORDINATES AND GEOMETRY PRIOR TO ORDERING TIMBER PILES.

TIMBER CONSTRUCTION:

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
2. TIMBER SHALL BE TREATED IN ACCORDANCE WITH NYCTH USE CATEGORY 80 FOR TIMBER IN SALTWATER IMMERSED, PRESERVATIVE RETENTION SHALL BE 2.50 PFC.
3. TIMBER MATERIALS:
   A. LACED TIMBER:
   B. PILES:
      C. ASTM D25
      D. ASTM A505
4. WHEN CONNECTING HARDWARE IS SHOWN ON THE DRAWING, THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT UNDERRATE WOOD CONNECTIONS SHALL FULL AND HOLD MEMBERS BEING JOINED INTO CLOSE CONTACT.
5. USE GALVANIZED DOCK WASHER OR OIL WASHER WHERE INDICATED.
6. CHECK ALL BOLTS BY BURRING THE THREADS AFTER THE NUTS HAVE BEEN FINALLY TIGHTENED.
7. BORE HOLES FOR THRU BOLTS WITH A BIT 1/8 INCH LARGER IN DIAMETER THAN THE SHANK OF THE BOLT.
8. FIELD TREAT ALL CUTS AND HOLES WITH APPROVED MARINE GRADE WOOD PRESERVATIVE. ALLOW PRESERVATIVE TO COMPLETELY DRY PER MANUFACTURER'S INSTRUCTION PRIOR TO IMMERGING IN WATER.

FUNDAMENTALLY SOUND AND REASONABLE.


COASTAL PROTECTION
AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70808

DRAWN BY: YC
DESIGNED BY: BA
APPROVED BY: MAURY CRABBE, B.E.
TYPICAL DREDGE PIPELINE ROUTE SECTION
RIVER MILE 65.8

NOTES:
1. MISSISSIPPI RIVER BOTTOM PROFILE BASED ON OBI 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.
LEGEND
MISSISSIPPI RIVER AND TIRIBULIERS LEVEE
LEVEE INSPECTION ROAD CROSSING
BRACED EXCAVATION
DREDGE PIPELINE
INFILTRATION POINT ALONG ACCESS CORRIDOR PROPERTY LINE
CONSTRUCTION LIMITS
EXIST WATER LINES
EXIST OVERHEAD LINES
EXIT FENCE LINE

EXISTING CASING PIPE

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PLAQUEMINES PARISH GOVERNMENT (PPG) PROPERTY LINE / CONSTRUCTION LIMITS (SEE NOTE 6)

HOG HEAVY GRAVEL DRIVE

BRACED EXCAVATION (SEE NOTE 7)

UNDERGROUND RAILROAD CROSSING (SEE DET. 1 ON SHT. 36)

DREDGE PIPELINE

PLAQUEMINES PARISH GOVERNMENT (PPG) PROPERTY LINE / CONSTRUCTION LIMITS (SEE NOTE 6)

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

NOTES:
1. THE CONTRACTOR SHALL NOT EXCAVATE WITHIN 50 FT OF ANY PIPELINE IN THE MISSISSIPPI RIVER OR WITHIN 50 FT OF ANY OTHER PIPELINE EXCEPT FOR NAOMI SIPHON PIPE.
2. NO EXCAVATION SHALL BE PERMITTED WITHIN 25 FT OF THE NAOMI SIPHON PIPES. THE EDGE OF THE DREDGE PIPELINE SHALL BE PLACED A MINIMUM OF 2 FT 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 30 TO 39 FOR CROSS SECTION DETAILS.
6. PLAQUEMINES PARISH GOVERNMENT PROPERTY LINES ARE DELINEATED BY DRAINAGE DITCHES.
7. BRACED EXCAVATION TEMPORARY SPILL SHAL BE PLACED ON EITHER SIDE OF THE EXCAVATION PIT. THE BRACED EXCAVATION SHALL BE DESIGNED AND CONSTRUCTED AS PER APPENDIX I OF THE SPECIFICATIONS. TEMPORARY SPILL LOCATIONS SHALL BE INCLINED IN THE WORK PLAN.
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**NOTE:**
1. LOCATION OF SETTLEMENT PLATES WAS PROJECTED IN COORDINATES WITH THE FIELD ENGINEER.

**POTENTIAL BOOGER PUMP LOCATIONS**

<table>
<thead>
<tr>
<th>PT.</th>
<th>EASTING</th>
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<th>AREA 1</th>
<th>BA-48 MARSH CREATION</th>
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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.
NOTES:

1. MATERIAL EXCAVATED TO CONSTRUCT THE ACCESS CHANNEL SHALL BE PLACED ON THE LAKESIDE 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 BACKFILLED PRIOR TO FINAL INSPECTION.
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.

RAILROAD CROSSING DETAIL

COASTAL PROTECTION AND RESTORATION AUTHORITY
451 LAUREL STREET
BAYOU ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LDSP AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: LA-41 (35) AND 3A-01

RAILROAD CROSSING DETAIL

FINAL BID SET

LEGEND

BRACED EXCAVATION
--- EXISTING GROUND

ONE AMERICAN PLACE
357 MAIN STREET, SUITE 600
BAYOU ROUGE, LA 70801
330-890-2710

DRAWN BY: YC  DESIGNED BY: SA
APPROVED BY: MAURY CHASTELLIER, P.E.
DATE: MARCH 1, 2013
SHEET 56 OF 61
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.
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 2008 SPECIFICATION 1003.04 (a).

PLAN VIEW

SECTION A-A

DIET ROAD CROSSING DETAIL

NOT TO SCALE

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

MISSISSIPPI RIVER LOPF AND
RAYOU (DU PONT) MARSH & RIDGE CREATION
STATE PROJECT NO: 69-45 (BI) AND 64-46

DIRT ROAD CROSSING DETAIL

DATE: MARCH 1, 2013

SHEET 61 OF 81
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 103.04 (a).
FLOOD PROTECTION LEVEE CROSSING DETAIL

NOT TO SCALE

NOTES:
1. THE CROWN RAMPS OVER THE PIPELINE CROSSINGS SHALL CONSIST OF CRUSHED STONE FOR FULL WIDTH AND LENGTH OF RAMPS. THE CRUSHED STONE MATERIAL SHALL CONFORM TO LA DOTD 2006 SPECIFICATION 1025.04 (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 TLS SURVEY.

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

MISSISSIPPI RIVER LESP AND BAYOU DUPONT MARSH & RIDGE CREATION
STATE PROJECT NUMBER: BA-41 (6H) AND BA-46

FINAL BID SET

DATE: MARCH 8, 2013

DRAWN BY: VC
DESIGNED BY: IA
APPROVED BY: MAURICE CHATELLIER, P.E.
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.
PLAN PROPOSED BRIDGE APPROACHES

SCALE 1" = 20'-0"

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.

SECTION THROUGH APPROACH

SCALE 1" = 1'-0"

FLOOR
SELECTED SOIL COMPACTED TO MIN. 95% LA DOT TR 418
12" B TIMBER PRESSURE TREATED PILE (TO REMAIN)
3" x 8" TIMBER (TO REMAIN)
PREFabricated CONCRETE CAPE
3" x 8" TIMBER (TO REMAIN)
2" VINYL SHEET PLATE (TO REMAIN)
10" B TIMBER ANCHOR PILE (TO REMAIN)
12" B CREDIBYTE TIMBER PILE (TO REMAIN)
2" x 8" TIMBER (TO REMAIN)
10" B TIMBER PILE (TO REMAIN)
6" AGGREGATE BASE (SEE DET. 2 ON SHEET 50)
PERMANENT ACCESS CORRIDOR BASELINE

FOR SLOPE AND EMBANKMENT ARMOR, SRF 01
APPROXIMATE EXISTING GRADE
MHW+4.87
1.5
11
SELECTED SOIL (LA DOT SPECIFICATION 203-00)
COMPACTED TO MIN. 95%
LA DOT TR 418
SELECTION SYMMETRICAL ABOUT CENTERLINE
MAT ANCHORS LOCATED APPROXIMATELY 8' ON CENTER

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-44 (28) AND RA-44

BRIDGE PIPE CROSSING PLANS
SHEET 2 OF 2
DATE: MARCH 4, 2013

DRAWN BY: VC
DESIGNED BY: SA
APPROVED BY: MAURY CHASELLER, P.E.

SHEET # 2 OF 2
WARNING SIGN NOTES


2. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PLUNING AT ALL POINTS OF CONTACT.

3. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 81.5 OF THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.

4. TIMBER PILES SHALL CONFORM TO SECTIONS 8A AND 11A 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 CREGOITE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED ACCORDING TO LA DOTD SPECIFICATION 812.06.

5. TIMBER PLUNING SHALL BE 46 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 ACID TAR EPOXY PAINT PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.

TEMPORARY SHOAL WARNING SIGN DETAILS

NOT TO SCALE

FINAL BID SET

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

MISSISSIPPI BAY/RIVER LEVEE CHAIN OF THE MISSISSIPPI RIVER LEVEE, LA BRANDON & JUDE CREATION

STATE PROJECT NUMBER: BA-65 (WPR) AND BA-48

DATE: MARCH 4, 2013

TEMPORARY SHOAL WARNING SIGN DETAILS

DRAWN BY: YC
DESIGNED BY: SAI
APPROVED BY: MAURY CHATELLIER, P.E.
DREDGE PIPELINE

PIPE SIZE CONTENTS

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

3" DIAMETER RISER PIPE WITH CAP

THREADED OR WELDED CAP

3"Ø NOM. PIPE (SCHEDULE 40)
(GALVANIZED)

PLATE 4" x 4" x 1/4"
(GALVANIZED AFTER WELDING)

ELEVATION

TEMPORARY PIPELINE MARKER DETAIL

MARKER DETAIL

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 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 PIPES SHALL BE TEMPORARILY REMOVED AND RE-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 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 CONTRA T 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 MARDY, 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 ITEM NO. 1, "MOBILIZATION AND DEMOBILIZATION."
4. SEE THE SPECIFICATIONS FOR CASING PIPE CAP DETAILS.

Coastal Protection and Restoration Authority
Mississippi River ISP and Bayou Dupont Marsh & Ridge Creation

450 Laurel Street
Baton Rouge, Louisiana 70801
state: March 13, 2013

Drawn by: YC
Designed by: EA
Approved by: Mawrsky/Fieheler, P.E.

Sheet 16 of 41
1. All elevations are given in the North American Vertical Datum of 1988 (NAVD 88).
2. Existing grade profile based on TMS survey performed from July 26 to October 10, 2011.

**Legend**
- **Existing Grade**
- **Finished Grade**
- **Earthen Containment Embankment**
- **Borrow Area**
- **Corridor & Marsh Creation**

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**MISSISSIPPI RIVER LDSP & BAYOU DUPONT MARSH & RIDGE CREATION**

STATE PROJECT NUMBER: EA-00-48 (EH) 46-46

**BASE BID: LDSP FEL, AREA SECTIONS**

DATE: MARCH 16, 2013

**DRAWN BY: YC**
**DESIGNED BY: EA**
**APPROVED BY: MACY CHAITZELLER, P.E.**
NOTES:
1. THE CONTRACTOR SHALL SURVEY THE BORROW AREAS AT THE LOCATIONS SHOWN AS PER SECTION 3.T.
2. BORROW AREA SURVEY WERE PERFORMED IN AUGUST 2011 BY OGB.
3. SEE SHEET 78, 79 & 80 FOR THE BORROW AREA SECTIONS.
COASTAL PROTECTION AND RESTORATION AUTHORITY
409 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

MISSISSIPPI RIVER LOOP AND BAYOU DUPONT BASIN & RIDGE CREATION
STATE PROJECT NUMBER: BA-41 (ESD) AND BA-48

ALLENCE ANCHORAGE BORDOW AREA ELECTIONS

FILL 2 OF 2

DATE: MARCH 4, 2013

DEPARTMENTS: VC
DRAFTED BY: VC
APPROVED BY: MAURY CHATTELLIER, PE.
MISSISSIPPI RIVER
LONG DISTANCE SEDIMENT PIPELINE
SPONSORED BY THE:
COASTAL PROTECTION AND RESTORATION AUTHORITY OF LOUISIANA

This marsh restoration 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 HOMEOY BOLTS EMBEDDED TO A DEPTH OF AT LEAST TEN (10) FEET. SIGN SHALL BE ATTACHED TO POSTES OR PipeS WITH SIX (6) 3/4" X 4" A307 (HDD) BOLTS WITH WASHERS AND NUTS.
2. BOTTOM EDGE OF SIGN SHALL BE APPROXIMATELY EIGHT (8) FEET ABOVE THE GROUND WITH FRONT FACING THE WATER PARALLEL TO THE GROUND CREST.
3. SIGN PLACEMENT AT THE DIRECTION OF ENGINEER.

PROJECT FUNDING SIGN
NOT TO SCALE

21
38

PLAN VIEW
SIDE VIEW

BAYOU DUPONT MARSH AND RIDGE CREATION PROJECT (BA - 48)

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

MISSISSIPPI RIVER LSDP AND BAYOU DUPONT MARSH & RIDGE CREATION PROJECT FUNDING SIGNS

DATE: MARCH 8, 2013

DRAWN BY: YC
DESIGNED BY: SA
APPROVED BY: MACY CASTELLER, P.E.

SHEET 8 OF 11