

ADDENDUM No. 1 TO PLANS AND CONTRACT DOCUMENTS

FOR

**EAST MARSH ISLAND MARSH CREATION
POST-CONSTRUCTION MAINTENANCE EVENT**

CWPPRA NUMBER: TV-21

IBERIA PARISH, LOUISIANA



APRIL 4, 2014

COASTAL PROTECTION AND RESTORATION AUTHORITY



04/07/14

**ADDENDUM TO BID DOCUMENTS
EAST MARSH ISLAND MARSH CREATION
POST-CONSTRUCTION MAINTENACE EVENT
IN IBERIA PARISH, LOUISIANA
CWPPRA NUMBER: TV-21**

The clarifications, responses to Contractor questions, and revisions to the Plans and Specifications provided in this addendum supersede the requirements of the Plans and Specifications dated January 27, 2014. Replacement Plan Sheets are provided in Attachment B.

1. Clarification on Items Discussed at the Mandatory Pre-Bid Conference:

- 1.1. The Plans and Specifications will be updated to clarify the material replacement of the rock plug shall be **to** the pre-construction surveyed lines, grades, and elevations.
- 1.2. The proposed earthen plug just east of the rock plug being temporarily relocated (See Plan Sheets 6 & 7) has been resized. An earthen plug shall be constructed to a +1.5 ft. (NAVD88) with a minimum crest width of 25.0 ft. See Plan Sheets 6, 7, and 14 for details. Payment for the earthen plug shall be included in the lump sum Bid Item No. 3 “ACCESS AND FLOATATION DREDGING & PLUG REMOVAL”
- 1.3. A question regarding Note 5 on Plan Sheet 8 was discussed. Dredging of the North-South Canal shall be strictly limited to wheel-washing or minor dredging to allow direct access to the Rock Plug. This dredging is permitted, with approval from the ENGINEER, if found compliant with the consistency permit issued for original construction of the project. The material dredged from the North-South Canal shall not be used as a fill or a borrow source.
- 1.4. The access route and borrow areas for this project were selected because they were able to be permitted through a slight modification of the consistency permit governing the original TV-21 project. Any proposed alternate methods for borrow excavation and access must comply with the consistency permit modification issued for this project. No excavation outside the limits shown on the Plans will be permitted.

2. Questions Submitted by Potential Bidders:

No Questions were submitted by Potential Bidders before the Deadline stated in the Specifications.

3. Revisions to the Specifications:

3.1. SP-2 Work to be Done – Replace Sections 2.1 and 2.1.2 with the following:

2.1 *SCOPE: The Contractor shall provide all labor, materials, and equipment necessary to perform the Work. The Work shall include, but not limited to, mobilization and demobilization at the Project Site, dredging of access and floatation canals, repairing existing containment dikes, placing shoreline protection in the form of articulated concrete mats and 130-lb class rip-rap, removing a containment dike plug consisting of timber mats, and degradation of various earthen plugs. The Work shall be performed in accordance with these Specifications and in conformity to lines, grades, and elevations shown in the Plans or as directed by the Engineer. Quantity calculations, layouts, shop drawings, and construction sequencing of these items shall be provided in the Work Plan. The major tasks associated with the Work are described as follows:*

2.1.2 *Access and Floatation Channels – Floatation Channels may be dredged in the East-West Canal to allow access to the shoreline protection features to place articulated concrete mats upon woven geotextile fabric. All dredging shall be performed using a mechanical dredge, or approved equal, and the material shall be placed as shown in the Plans. The rock plug at the mouth of the East-West Canal may be temporarily removed to allow construction access to the East-West Canal. The rock plug shall be replaced prior to demobilization using existing rock temporarily removed and additional rip-rap as required.*

3.2. TS-2 Construction Surveys – Replace Section 2.2.3 with the following:

2.2.3 *Transects: Transects at 100 foot spacing, along the shoreline protection baseline, shall be surveyed from the baseline to a minimum of 100 feet toward the marsh interior and 50 feet toward East Cote Blanche Bay with points surveyed at a maximum of 10 foot intervals. All points of inflection of the concrete mat alignment shall be surveyed and staked. The rip-rap being placed along the North-South Canal shall be surveyed and staked with a minimum of four transects with even spacing between transects.*

The Contractor shall develop drawings which show the cross sections and plan views of the existing shoreline, articulated concrete mats, and rip-rap. Elevations, coordinates, lines, and grades for each of these features shall be shown on the drawings. Contour elevations at one foot intervals, in NAVD88, shall also be shown on all plan view drawings.

The Contractor shall determine the project quantities of articulated concrete mats, rip-rap, geotextile fabric, and excavation and embankment. The quantities of mats, rip-rap, and excavation and embankment shall be calculated using a method approved by the Engineer, such as average end area or through surface comparisons in AutoCAD Civil 3D. See TS-6, TS-7, and TS-9 for material quantity units.

- 3.3. TS-3 – Access and Flotation Dredging & Plug Removal – Replace Sections 3.5 and with the following:

3.5 Rock Plug Material Replacement: *Excavated material from the rock plug shall be replaced to the lines, grades, and elevations surveyed during the pre-construction surveys. Material lost during removal and replacement shall be augmented with additional rip rap in accordance to TS-9 of these specifications. Measurement and Payment of additional rip rap shall be included in Bid Item TS-9.*

3.7 Measurement and Payment: *Once the Contractor has completed access dredging to the eastern extent of the East-West Canal, the Contractor shall be paid sixty percent (60%) of the contract lump sum price for Bid Item 3, “Access and Flotation Dredging & Plug Removal”. Price and payment for this item shall constitute full compensation for all materials, labor, supplies, and equipment required for dredging the access and floatation channels, and maintaining a dredged channels for the duration of construction. The remaining forty percent (40%) will be paid upon replacement of existing rocks and materials excavated from the rock plug. Additional rip rap bringing the rock plug to pre-construction lines, grades, and elevations shall be measured and paid according to TS-9 of these Specifications. No additional payment will be made for re-dredging or maintenance of access and floatation channels. Payment for this item shall be made at the contract lump sum price for Bid Item No. 3, “Access and Flotation Dredging & Plug Removal”.*

- 3.4. TS-7 Woven Geotextile Fabric (Shoreline Protection) – Replace Sections 7.1 and 7.5 with the following:

7.1 Scope: *The Work provided herein consists of furnishing all labor, material, equipment, and performance of all operations required for furnishing, hauling, placing, completing, and maintaining the woven geotextile fabric until placement of either articulated concrete mats or rip rap are completed and accepted as specified herein and on the Plans.*

7.5 Installation: *The woven geotextile fabric shall be placed in a perpendicular direction with respect to the centerline of the containment dikes, under the articulated concrete mats or rip rap. The Contractor shall prepare the surface to receive the geotextile, insuring the surface is relatively smooth and free of obstructions, depressions, debris, soft or low density pockets of material, and vegetation, which could damage the geotextile during placement. At the time of installation, the geotextile shall be rejected if defects, rips, holes, flaws, deterioration, or damage incurred during manufacturing, transportation, or storage. The geotextile shall be protected at all times during construction to insure the geotextile’s original chemical and physical properties are unchanged. Work shall be scheduled so that the geotextile placed is completely covered with a layer of the specified material by the end of each workday. Failure to comply shall require replacement of geotextile.*

All wrinkles and sags shall be stretched out immediately before concrete mats or rip rap are placed on the geotextile. The geotextile shall be undamaged during placement of concrete mats or rip rap. The Contractor shall demonstrate mat and rip rap placement will not damage the geotextile before placement. Any geotextile rejected or damaged shall be replaced by the Contractor at no additional cost to the Owner. The Contractor shall also submit a geotextile panel placement plan for the site and the corresponding factory sewn panel dimensions. The Contractor shall allow the Engineer a minimum of seven (7) days for review and approval of the placement plan, prior to geotextile placement.

- 3.5. TS-8 Containment Dike Repair (Shoreline Protection) – Replace Section 8.2 with the following:

8.2 Material: Material shall only be borrowed from the areas designated in the Plans for use as fill to repair the existing containment dikes. The lines, grades, and elevations limits of excavation are specified in the Plans. “Wet” material excavated shall be placed in an acceptable manner as to de-water the material. Material shall be spread, dried, and reasonably firm prior to installation of geotextile fabric, articulated concrete matting, or rip rap.

4. Revisions to the Bid Form:

- 4.1. A new bid item was included on the Bid Form. The current bid form now includes an additional page (Page 3) with bid item TS-9 “Rip-Rap (130-lb CLASS)”. The entire, revised bid form is included with this addendum as Attachment A.

5. Revisions to the Plans:

- 5.1. All revisions to the Plans are described in the title block of the revised plan sheets included as part of this addendum as Attachment B.

6. Revisions to the Technical Specifications

- 6.1. A new technical specification is included as Attachment C describing bid item TS-9 “Rip-Rap (130-lb CLASS)”

7. Sign-In Sheet

- 7.1. The attendance record for the mandatory pre-bid conference held on March 25, 2014 at the CPRA – Lafayette Regional Office is included in this Addendum as Attachment D.

ATTACHMENT A

Revised Bid Form

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: FACILITY PLANNING AND CONTROL
P.O. BOX 94095
CLAIBORNE BUILDING
BATON ROUGE, LA 70804

BID FOR: EAST MARSH ISLAND
MARSH CREATION
POST-CONSTRUCTION
MAINTENANCE EVENT (TV-21)

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: T. Baker Smith, LLC. and dated: January 27, 2014

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging)

_____.

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____ Dollars (\$ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:
_____ Not Applicable _____ Dollars (\$ _____ N/A _____)

Alternate No. 2 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:
_____ Not Applicable _____ Dollars (\$ _____ N/A _____)

Alternate No. 3 (Owner to provide description of alternate and state whether add or deduct) for the lump sum of:
_____ Not Applicable _____ Dollars (\$ _____ N/A _____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

** If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(A)(1)(c) or RS 38:2212(O).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: FACILITY PLANNING AND CONTROL **BID FOR:** EAST MARSH ISLAND
P.O. BOX 94095 MARSH CREATION
CLAIBORNE BUILDING POST-CONSTRUCTION
BATON ROUGE, LA 70804 MAINTENANCE EVENT (TV-21)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

| | | |
|--------------|---|--|
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>MOBILIZATION & DEMOBILIZATION</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-1 | 1 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>CONSTRUCTION SURVEYS</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-2 | 1 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>ACCESS AND FLOATATION DREDGING & PLUG REMOVAL</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-3 | 1 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>TIMBER MAT REMOVAL</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-4 | 1 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>EARTHEN PLUG & GAP DEGRADEMENT</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-5 | 1 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>ARTICULATED CONCRETE MATS (SHORELINE PROTECTION)</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-6 | 2,230 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>WOVEN GEOTEXTILE FABRIC (SHORELINE PROTECTION)</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-7 | 2,350 | UNIT PRICE EXTENSION (Quantity times Unit Price) |
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u>CONTAINMENT DIKE REPAIR (SHORELINE PROTECTION)</u> | |
| REF. NO. | QUANTITY: | UNIT PRICE |
| TS-8 | 2,200 | UNIT PRICE EXTENSION (Quantity times Unit Price) |

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM

UNIT PRICE FORM

TO: FACILITY PLANNING AND CONTROL **BID FOR:** EAST MARSH ISLAND
P.O. BOX 94095 MARSH CREATION
CLAIBORNE BUILDING POST-CONSTRUCTION
BATON ROUGE, LA 70804 MAINTENANCE EVENT (TV-21)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

| | | | | | |
|----------------|---|------------------|----------------|----------------------|-----------------------------|
| DESCRIPTION: | <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> RIP-RAP (130-lb CLASS) | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| TS-9 | 1,300 | TON | | | |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| DESCRIPTION: | <input type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> Not Applicable | | | | |
| REF. NO. | QUANTITY: | UNIT OF MEASURE: | UNIT PRICE | UNIT PRICE EXTENSION | (Quantity times Unit Price) |
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

BID BOND
FOR
COASTAL PROTECTION AND RESTORATION AUTHORITY PROJECTS

Date: _____

KNOW ALL MEN BY THESE PRESENTS:

That _____ of _____, as Principal, and _____, as Surety, are held and firmly bound unto the State of Louisiana, Coastal Protection and Restoration Authority (Obligee), in the full and just sum of five (5%) percent of the total amount of this proposal, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater than the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

PRINCIPAL (BIDDER)

SURETY

BY: _____
AUTHORIZED OFFICER-OWNER-PARTNER

BY: _____
AGENT OR ATTORNEY-IN-FACT (SEAL)

ATTACHMENT B

Revised Plan Sheets

GENERAL NOTES

- TYPE OF CONSTRUCTION IS CLASSIFICATION III (HEAVY CONSTRUCTION) SHORELINE PROTECTION.
- 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. SURVEY FEET, REFERENCED TO GEOID09. THE BENCHMARK IN THE PROJECT AREA IS SHOWN ON SHEET 3.
- MEAN LOW WATER (MLW) IS -0.22 FT. NAVD 88, AND MEAN HIGH WATER(MHW) IS +1.29 FT. NAVD 88.
- AERIAL IMAGES USED FOR PROJECT DRAWING BACKGROUNDS ARE 2011 DOQQQ IMAGES FLOWN FOR THE OIL ASSESSMENT FOR THE BP MC252 INCIDENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM A NAVIGABLE WATER BODY TO THE SITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE AND DREDGING ONLY WITHIN THE DESIGNATED DREDGING LIMITS SHOWN ON THE PLANS. THE CPRA PROJECT ENGINEER OR LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES (L.W.F.) INSPECTOR SHALL MONITOR EQUIPMENT OPERATIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING L.W.F. FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION. ALL PIPELINES IN THE AREA SHALL BE INITIALLY MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND SHALL HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THEIR VESSELS TO AVOID DREDGING IN RESTRICTED AREAS. PIPELINE OPERATORS KNOWN TO HAVE PIPELINES IN THE VICINITY ARE SHOWN ON ALL PLAN VIEW SHEETS. THE CONTRACTOR SHALL CALL LOUISIANA-ONE-CALL AND PIPELINE SAFETY (225) 342-3417, FIVE (5) WORKING DAYS PRIOR TO MOBILIZATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE CLEARANCES FROM THE PIPELINES SET FORTH IN THE PLAN DRAWINGS OR IN THE BID DOCUMENTS. NO EXCAVATION IS ALLOWED WITHIN ANY AREA RESTRICTED BY THE PIPELINE COMPANIES AND SET FORTH ON THE PLANS. PIPELINE LOCATIONS SHOWN ON THE PLANS ARE BASED ON LADNR PIPELINE DATABASES.

PIPELINE CONTACT INFORMATION:
 EXXON MOBIL
 CONTACT: ANTHONY WAHLHEIM
 PH. (225) 755-2094

LOUISIANA DEPT. OF WILDLIFE AND FISHERIES CONTACT
 EDMOND MOUTON OR CASSIDY LEJEUNE
 CONTACT:
 PH. (337) 373-0032

- THE PROJECT FEATURES AND QUANTITIES SHOWN ARE BASED ON FIELD SURVEYS PERFORMED IN 2011 FOR THE DESIGN OF THIS PROJECT. ACTUAL FIELD CONDITIONS MAY HAVE CHANGED SINCE THE DESIGN SURVEYS WERE PERFORMED. PRE-CONSTRUCTION SURVEYS, PERFORMED BY THE CONTRACTOR, WILL BE USED BY THE ENGINEER TO UPDATE THESE CONSTRUCTION PLANS. THE ENGINEER WILL USE THE UPDATED CROSS SECTIONS AS INITIAL CONDITIONS FOR APPLICABLE PROJECT FEATURES IN THE PLANS PRIOR TO CONSTRUCTION. THE ALIGNMENT FOR THE ARTICULATED CONCRETE MATS AND RIP-RAP PLACEMENT MAY BE REVISED BY THE ENGINEER BEFORE CONSTRUCTION TO REFLECT CHANGES IN THE FIELD CONDITIONS.
- ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO THE U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
- THE ESTIMATED AREA OF MAT TONNAGE OF RIP-RAP COVERAGE SHOWN IN THE SUMMARY OF ESTIMATED QUANTITIES ARE FOR BIDDING PURPOSES ONLY AND CALCULATED ACCORDING TO THE CONDITIONS SURVEYED IN 2011 FOR THE DESIGN OF THIS PROJECT. SEE TS-6 FOR ADDITIONAL REQUIREMENTS. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
- THE CONTRACTOR IS TO AVOID IMPACTS TO EXISTING VEGETATION FOR THE PROTECTION OF FRAGILE EMERGENT MARSH. ACCESS TO OR MOVEMENT OUTSIDE OF THE DEFINED PROJECT SITES ARE STRICTLY PROHIBITED WITHIN MARSH CREATION AREAS FOR PERSONNEL, EQUIPMENT ACCESS, AND MATERIAL STORAGE.
- CLEARING OF TREES AND WOODY VEGETATION SHALL BE PERFORMED ON ALL AREAS WHERE SUCH MATERIALS ARE WITHIN THE PROPOSED LIMITS OF THE ARTICULATED CONCRETE MATS OR RIP-RAP. THE LIMITS OF CLEARING SHALL BE 5 FEET BEYOND THE EXTENT OF THE ARTICULATED MATS OR RIP-RAP. ALL TREES AND WOODY VEGETATION SHALL BE CUT LEVEL WITH THE GROUND SURFACE. IN AREAS WHERE TREES ARE LOCATED IN THE WATER, THOSE TREES AND STUMPS SHALL BE REMOVED SUCH THAT NO PROJECTS ABOVE THE MUD LINE. ALL MATERIAL CLEARED SHALL BE PLACED ON THE INTERIOR OF THE EXISTING CONTAINMENT DIKE ALIGNMENT. THE MATERIAL MAY EITHER BE BURIED OR PLACED AT A MAXIMUM HEIGHT OF +5.0' (NAVD88). NO DIRECT PAYMENT WILL BE MADE FOR CLEARING.
- NO DREDGED MATERIAL SHALL BE PLACED WITHIN 40' OF THE PROPOSED ACCESS CHANNEL IN THE EAST-WEST CANAL. THE CONTRACTOR MAY PLACE EXCAVATED MATERIAL FROM EAST-WEST CANAL ADJACENT TO THE DREDGED ACCESS CANAL ALIGNMENT, AS FILL FOR THE STAGING AREA, OR AS FILL FOR THE CONTAINMENT DIKE REPAIR AS SHOWN ON THE PLANS.
- THE TIMBER MATS ARE TO BE REMOVED WHOLE, IF POSSIBLE. SEE TS-4 FOR TIMBER MAT REMOVAL DETAILS. THE CONTRACTOR HAS THE OPTION TO REUSE THE REMOVED MATS IN THE STAGING AREA. PRIOR TO DEMOBILIZATION, ALL MATS ARE TO BE REMOVED AND DISPOSED BY THE CONTRACTOR.
- THE CONTRACTOR IS TO DEGRADE THE REMNANT CONTAINMENT DIKE TO SURROUNDING MARSH ELEVATION WHERE THE TIMBER MAT PLUG WAS LOCATED. THE EXCAVATED MATERIAL IS TO BE SPREAD EVENLY WITHIN THE VICINITY OF THE REMOVED PLUG. EXCAVATION NEAR THE TIMBER PLUG MAY BE MODIFIED BY THE W.L.F. INSPECTOR.
- THE CONTRACTOR SHALL PERFORM A LOUISIANA ONE CALL PRIOR TO MOBILIZATION. RECORDS OF THE ONE CALL SHALL BE SUBMITTED TO THE ENGINEER AND OWNER. PLEASE SEE GP-25 OF THE SPECIFICATIONS FOR FURTHER DETAILS.

SUMMARY OF ESTIMATED QUANTITIES

| BASE BID | | | |
|----------|--|-------------|--------------------|
| ITEM No. | DESCRIPTION | UNIT | ESTIMATED QUANTITY |
| 1 | MOBILIZATION & DEMOBILIZATION | LUMP SUM | 1 |
| 2 | CONSTRUCTION SURVEYS | LUMP SUM | 1 |
| 3 | ACCESS AND FLOTATION DREDGING & PLUG REMOVAL | LUMP SUM | 1 |
| 4 | TIMBER MAT REMOVAL | LUMP SUM | 1 |
| 5 | EARTHEN PLUG & GAP DEGRADEMENT | LUMP SUM | 1 |
| 6 | ARTICULATED CONCRETE MATS (SHORELINE PROTECTION) | SQUARE YARD | 2,230 |
| 7 | WOVEN GEOTEXTILE FABRIC (SHORELINE PROTECTION) | SQUARE YARD | 2,350 |
| 8 | CONTAINMENT DIKE REPAIR (SHORELINE PROTECTION) | CUBIC YARD | 2,200 |
| 9 | RIP-RAP (130 - lb CLASS) | TONS | 1,300 |



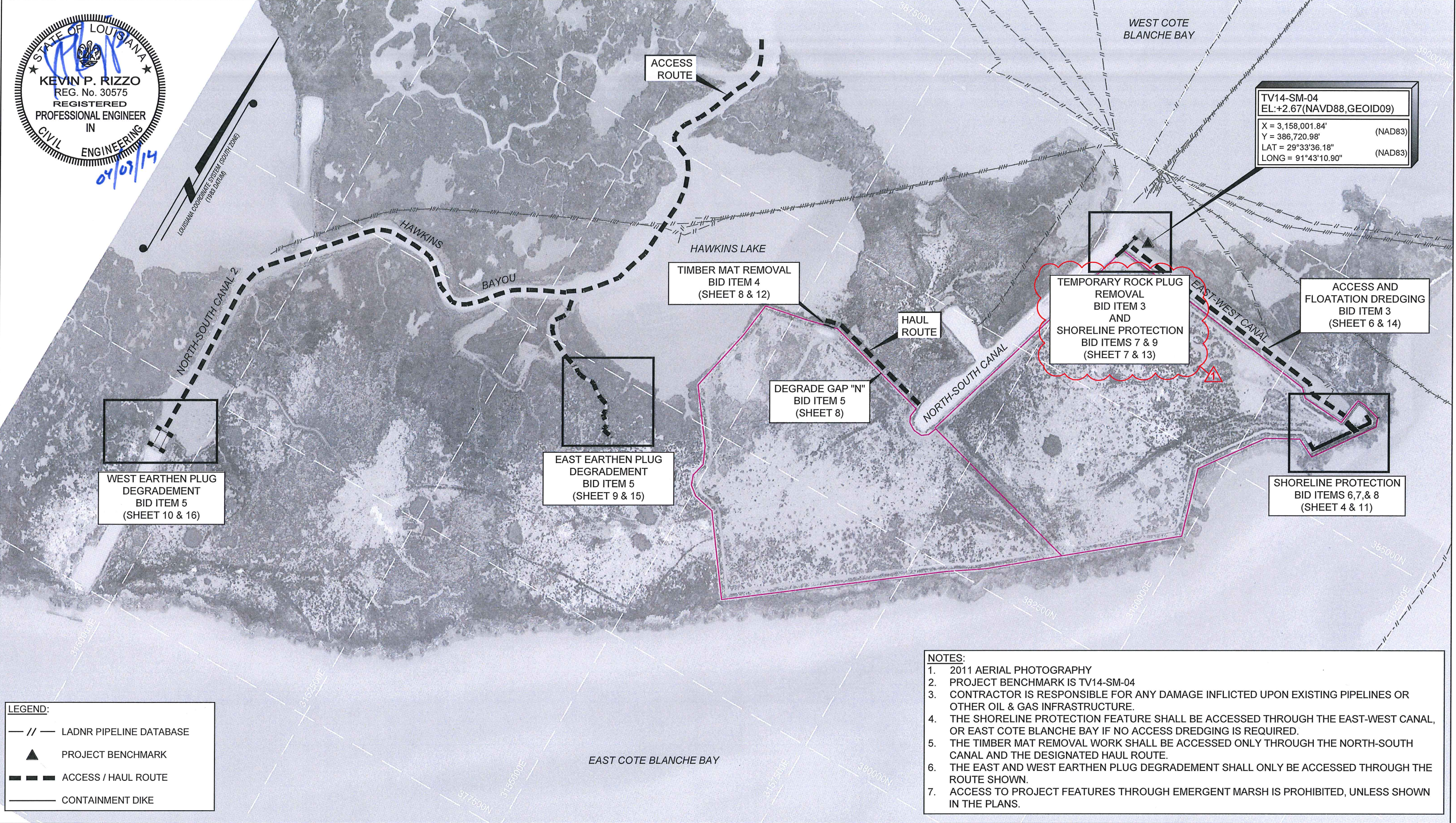
| | | | | | | | | | |
|---------------|--|------------------|--|--|--|--|--|---|--|
| | | | | COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL ST. STE. 1501 BATON ROUGE, LOUISIANA 70801 | | EAST MARSH ISLAND MARSH CREATION POST-CONSTRUCTION MAINTENANCE EVENT | | GENERAL NOTES AND ESTIMATED QUANTITIES | |
| | | | | | | STATE PROJECT NUMBER: TV-21 | | DATE: 1/27/14 | |
| DRAWN BY: WAC | | DESIGNED BY: WAC | | APPROVED BY: BJK | | SHEET 2 OF 16 | | | |

| REV. | DATE | DESCRIPTION | BY |
|------|--------|-------------|-----|
| 1 | 4/4/14 | ADDENDUM 1 | KPR |



04/03/14

LOUISIANA COORDINATE SYSTEM (SOUTH ZONE)
(1983 DATUM)



TV14-SM-04
EL: +2.67 (NAVD88, GEOID09)
X = 3,158,001.84' (NAD83)
Y = 386,720.98' (NAD83)
LAT = 29°33'36.18" (NAD83)
LONG = 91°43'10.90" (NAD83)

WEST EARTHEN PLUG DEGRADEMENT
BID ITEM 5
(SHEET 10 & 16)

EAST EARTHEN PLUG DEGRADEMENT
BID ITEM 5
(SHEET 9 & 15)

TIMBER MAT REMOVAL
BID ITEM 4
(SHEET 8 & 12)

DEGRADE GAP "N"
BID ITEM 5
(SHEET 8)

TEMPORARY ROCK PLUG
REMOVAL
BID ITEM 3
AND
SHORELINE PROTECTION
BID ITEMS 7 & 9
(SHEET 7 & 13)

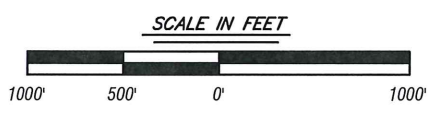
ACCESS AND
FLOATATION DREDGING
BID ITEM 3
(SHEET 6 & 14)

SHORELINE PROTECTION
BID ITEMS 6, 7, & 8
(SHEET 4 & 11)

LEGEND:

- // — LADNR PIPELINE DATABASE
- ▲ PROJECT BENCHMARK
- — — ACCESS / HAUL ROUTE
- — — CONTAINMENT DIKE

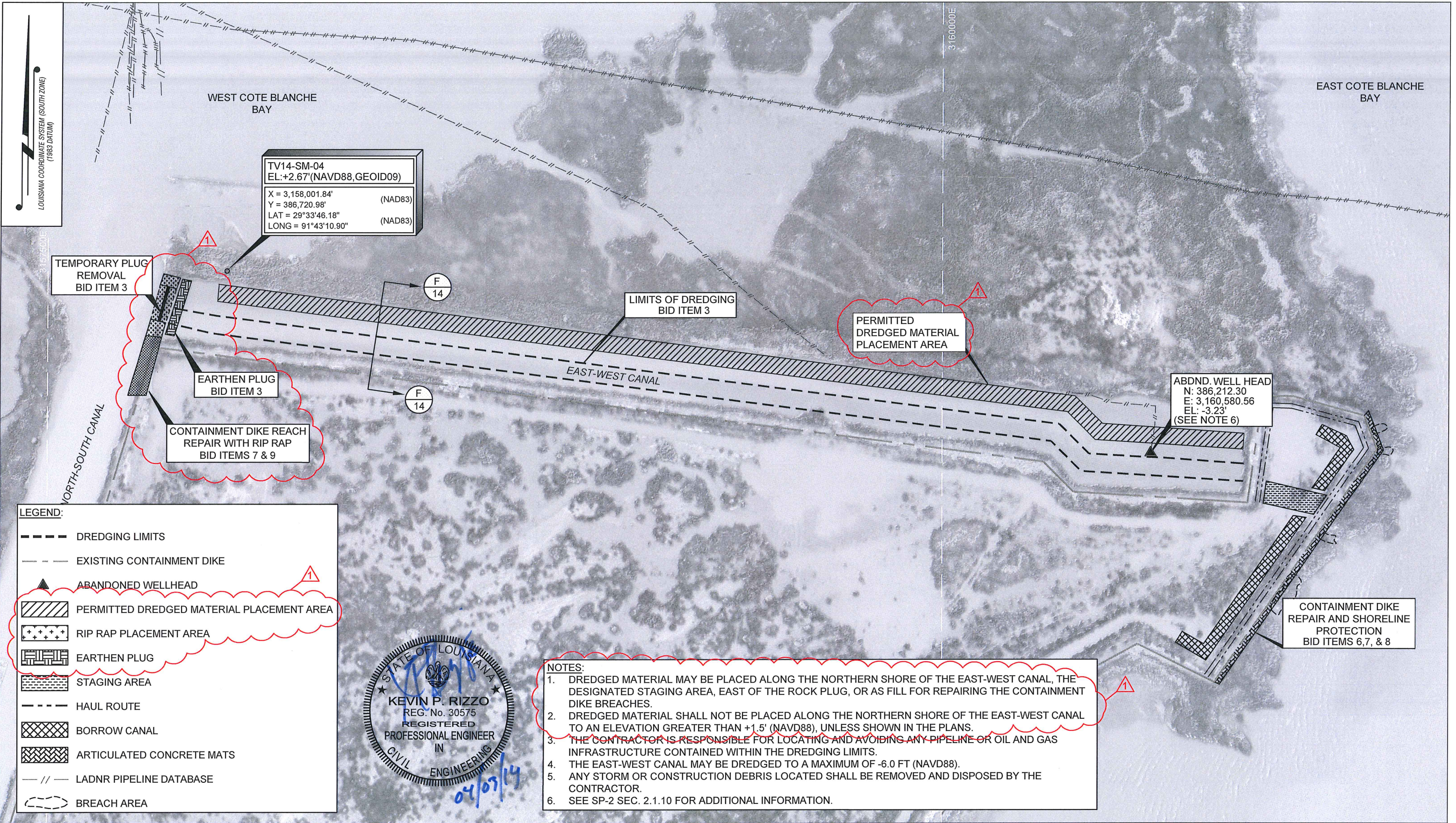
- NOTES:**
- 2011 AERIAL PHOTOGRAPHY
 - PROJECT BENCHMARK IS TV14-SM-04
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INFLICTED UPON EXISTING PIPELINES OR OTHER OIL & GAS INFRASTRUCTURE.
 - THE SHORELINE PROTECTION FEATURE SHALL BE ACCESSED THROUGH THE EAST-WEST CANAL, OR EAST COTE BLANCHE BAY IF NO ACCESS DREDGING IS REQUIRED.
 - THE TIMBER MAT REMOVAL WORK SHALL BE ACCESSED ONLY THROUGH THE NORTH-SOUTH CANAL AND THE DESIGNATED HAUL ROUTE.
 - THE EAST AND WEST EARTHEN PLUG DEGRADEMENT SHALL ONLY BE ACCESSED THROUGH THE ROUTE SHOWN.
 - ACCESS TO PROJECT FEATURES THROUGH EMERGENT MARSH IS PROHIBITED, UNLESS SHOWN IN THE PLANS.



| REV. | DATE | DESCRIPTION | BY |
|------|--------|-------------|-----|
| 1 | 4/4/14 | ADDENDUM 1 | KPR |



| | | | | |
|--|--|--|--|------------------|
| COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL ST. STE. 1501 BATON ROUGE, LOUISIANA 70801 | | EAST MARSH ISLAND MARSH CREATION POST-CONSTRUCTION MAINTENANCE EVENT | | PROJECT VICINITY |
| | | STATE PROJECT NUMBER: TV-21 | | |
| DRAWN BY: WAC | | DESIGNED BY: WAC | | APPROVED BY: BJK |
| | | | | SHEET 3 OF 16 |



TV14-SM-04
 EL: +2.67' (NAVD88, GEOID09)
 X = 3,158,001.84' (NAD83)
 Y = 386,720.98" (NAD83)
 LAT = 29°33'46.18" (NAD83)
 LONG = 91°43'10.90" (NAD83)

TEMPORARY PLUG
 REMOVAL
 BID ITEM 3

EARTHEN PLUG
 BID ITEM 3

CONTAINMENT DIKE REACH
 REPAIR WITH RIP RAP
 BID ITEMS 7 & 9

LIMITS OF DREDGING
 BID ITEM 3

PERMITTED
 DREDGED MATERIAL
 PLACEMENT AREA

ABDND. WELL HEAD
 N: 386,212.30
 E: 3,160,580.56
 EL: -3.23'
 (SEE NOTE 6)

CONTAINMENT DIKE
 REPAIR AND SHORELINE
 PROTECTION
 BID ITEMS 6,7, & 8

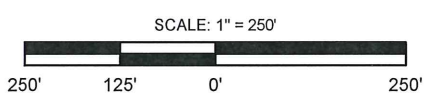
LEGEND:

- DREDGING LIMITS
- - - EXISTING CONTAINMENT DIKE
- ▲ ABANDONED WELLHEAD
- ▨ PERMITTED DREDGED MATERIAL PLACEMENT AREA
- ▧ RIP RAP PLACEMENT AREA
- ▩ EARTHEN PLUG
- STAGING AREA
- - - HAUL ROUTE
- ▧ BORROW CANAL
- ▩ ARTICULATED CONCRETE MATS
- // - LADNR PIPELINE DATABASE
- BREACH AREA



NOTES:

1. DREDGED MATERIAL MAY BE PLACED ALONG THE NORTHERN SHORE OF THE EAST-WEST CANAL, THE DESIGNATED STAGING AREA, EAST OF THE ROCK PLUG, OR AS FILL FOR REPAIRING THE CONTAINMENT DIKE BREACHES.
2. DREDGED MATERIAL SHALL NOT BE PLACED ALONG THE NORTHERN SHORE OF THE EAST-WEST CANAL TO AN ELEVATION GREATER THAN +1.5' (NAVD88), UNLESS SHOWN IN THE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING ANY PIPELINE OR OIL AND GAS INFRASTRUCTURE CONTAINED WITHIN THE DREDGING LIMITS.
4. THE EAST-WEST CANAL MAY BE DREDGED TO A MAXIMUM OF -6.0 FT (NAVD88).
5. ANY STORM OR CONSTRUCTION DEBRIS LOCATED SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR.
6. SEE SP-2 SEC. 2.1.10 FOR ADDITIONAL INFORMATION.



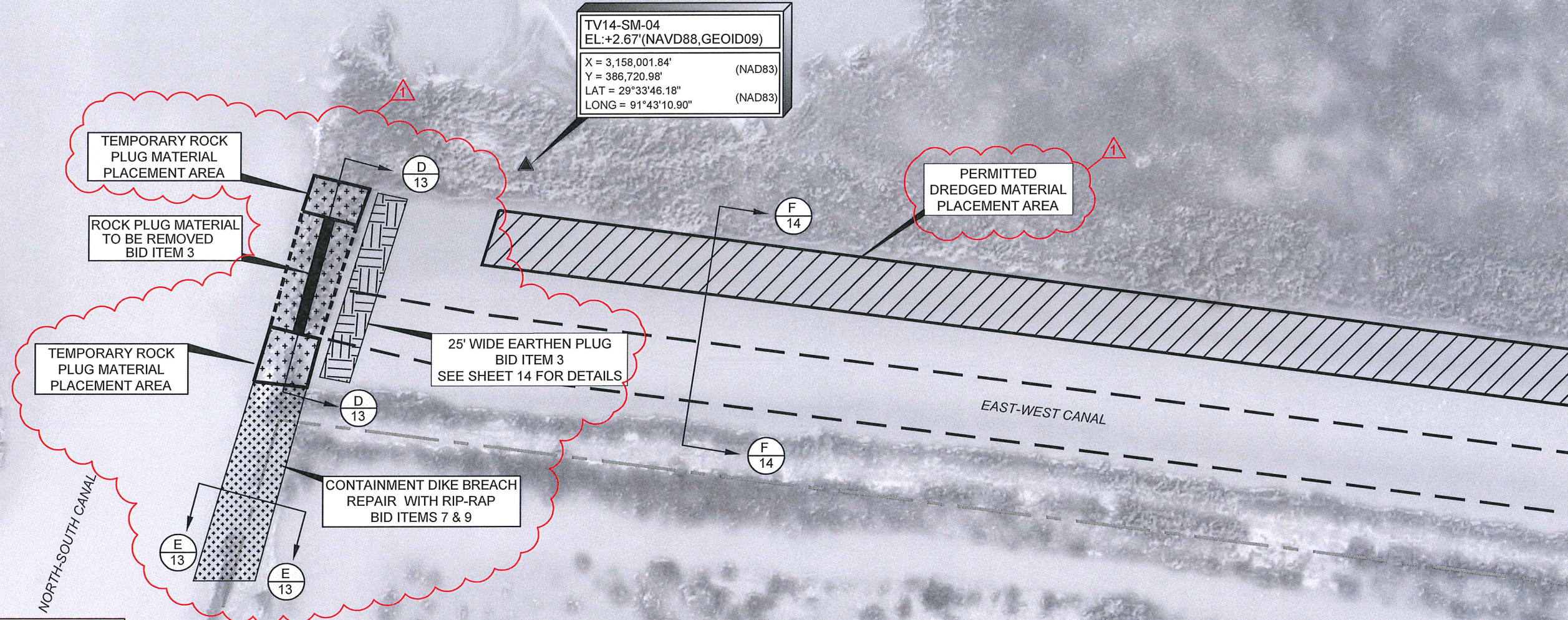
| REV. | DATE | DESCRIPTION | BY |
|------|--------|-------------|-----|
| 1 | 4/4/14 | ADDENDUM 1 | KPR |



| | | | | |
|--|--|--|--|----------------------------------|
| COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL ST. STE. 1501 BATON ROUGE, LOUISIANA 70801 | | EAST MARSH ISLAND MARSH CREATION POST-CONSTRUCTION MAINTENANCE EVENT | | EAST-WEST CANAL ACCESS LAYOUT |
| | | STATE PROJECT NUMBER: TV-21 | | |
| DRAWN BY: WAC | | DESIGNED BY: WAC | | APPROVED BY: BJK |
| | | | | SHEET 6 OF 16 |

LOUISIANA COORDINATE SYSTEM (SOUTH ZONE)
(1983 DATUM)

3157500E



TV14-SM-04
EL: +2.67'(NAVD88,GEOID09)
X = 3,158,001.84' (NAD83)
Y = 386,720.98' (NAD83)
LAT = 29°33'46.18" (NAD83)
LONG = 91°43'10.90" (NAD83)

LEGEND:

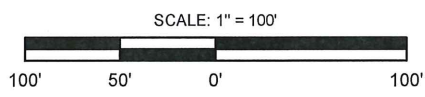
- ▲ PROJECT BENCHMARK
- EAST-WEST CANAL DREDGING LIMITS / ACCESS ROUTE
- - - EXISTING CONTAINMENT DIKE
- [Hatched Box] PERMITTED DREDGED MATERIAL PLACEMENT AREA
- [Cross-hatched Box] TEMPORARY RIP-RAP PLACEMENT AREA
- [Stippled Box] EARTHEN PLUG
- [Dotted Box] RIP-RAP TO BE REMOVED
- [Grid Box] CONTAINMENT DIKE BREACH REPAIR W/ RIP-RAP

SHORELINE PROTECTION NOTES:

- 130-lb CLASS RIP-RAP SHALL BE USED AS FILL FOR THE CONTAINMENT DIKE BREACH REPAIR. SEE TS-9 OF THE SPECIFICATIONS FOR DETAILS.
- RIP RAP SHALL BE PLACED TO THE LINES, GRADES, AND ELEVATIONS SHOWN IN TYPICAL SECTION E-E.
- RIP-RAP WILL BE PLACED OVER GEOTEXTILE FABRIC AS SHOWN IN TYPICAL SECTION E-E AND STATED IN TS-9 OF THE SPECIFICATIONS.
- EXTENTS OF THE CONTAINMENT DIKE BREACH MAY BE ALTERED BY THE ENGINEER TO FIELD FIT CONDITIONS DURING CONSTRUCTION. ANY ADDITIONAL QUANTITIES OF RIP-RAP SHALL BE PLACED AT THE UNIT RATE FOR BID ITEM 9.

NOTES:

- THE ROCK PLUG IS TO BE RECONSTRUCTED WITHIN THE LINES, GRADES, AND ELEVATIONS OF THE PRE-CONSTRUCTION SURVEY PRIOR TO DEMOBILIZATION.
- EXCAVATED ROCK PLUG MATERIAL MAY BE PLACED ON AREAS ADJACENT TO THE EXCAVATION AS SHOWN ON THE PLANS.
- DREDGED MATERIAL FROM THE EAST-WEST CANAL SHALL BE PLACED TO CONSTRUCT AN EARTHEN PLUG WITH A 25' WIDE CREST WIDTH TO A +1.5' ELEVATION EAST OF THE REPLACED ROCK PLUG, PAID THROUGH BID ITEM 3.
- ANY EXCAVATED MATERIAL SHALL NOT BE PLACED AS TO IMPEDE NAVIGATION OF EXISTING WATERWAYS.
- DREDGING OF THE NORTH-SOUTH CANAL SHALL BE STRICTLY LIMITED TO WHEEL-WASHING OR MINOR DREDGING TO ALLOW DIRECT ACCESS TO THE ROCK PLUG.



| REV. | DATE | DESCRIPTION | BY |
|------|--------|-------------|-----|
| 1 | 4/4/14 | ADDENDUM 1 | KPR |



COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL ST.
STE. 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: WAC DESIGNED BY: WAC

EAST MARSH ISLAND MARSH CREATION
POST-CONSTRUCTION
MAINTENANCE EVENT

STATE PROJECT NUMBER: TV-21

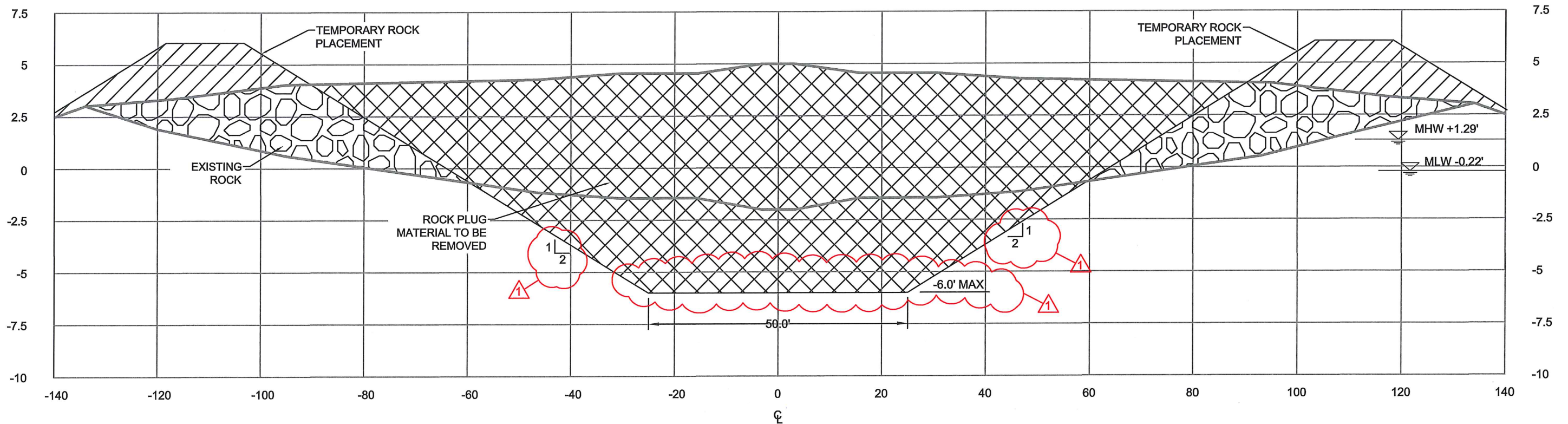
FEDERAL PROJECT NUMBER:

APPROVED BY: BJK

TEMPORARY ROCK PLUG
REMOVAL AND BREACH
REPAIR LAYOUT

DATE: 1/27/14

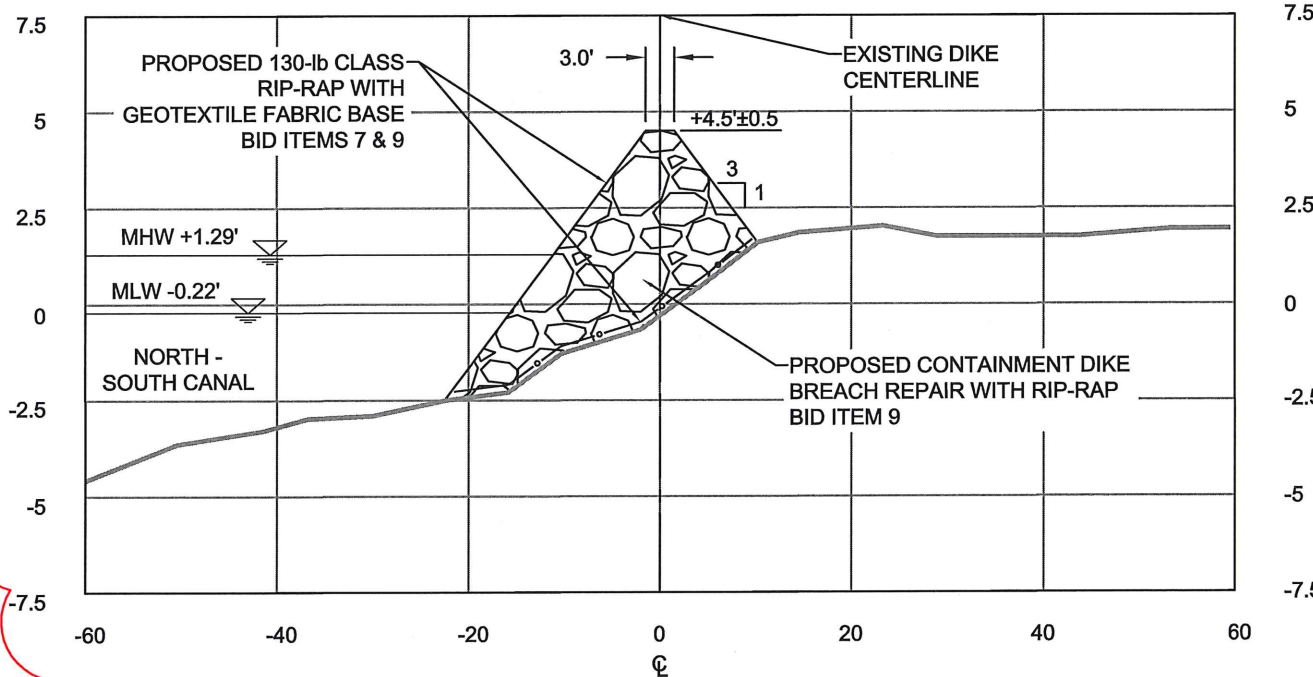
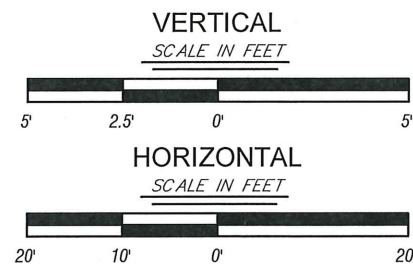
SHEET 7 OF 16



TYPICAL SECTION D-D

HORIZONTAL 1" = 5'
VERTICAL 1" = 20'

- NOTES:**
1. TYPICAL SECTIONS OF EXISTING FEATURES ARE NOT BASED ON SURVEY DATA.
 2. TEMPORARILY REMOVED ROCK PLUG MATERIAL SHALL BE PLACED WITHIN THE EXISTING ROCK PLUG EXTENTS.
 3. THE ROCK PLUG MAY ONLY BE EXCAVATED TO A MAXIMUM ELEVATION OF -6.0' (NAVD88).
 4. THE PLUG SHALL BE DEGRADED FOR A MINIMUM OF 50.0' ALONG THE EXISTING ROCK PLUG CENTERLINE.
 5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING PIPELINE AND OIL AND GAS INFRASTRUCTURE DURING DEGRADEMENT.
 6. THE EXCAVATED ROCK PLUG MATERIAL SHALL BE PLACED WITHIN PRECONSTRUCTION LINES, GRADES, AND ELEVATIONS PRIOR TO DEMOBILIZATION.
 7. TYPICAL SECTION E-E SHALL FOLLOW DETAILS FOR ARTICULATED CONCRETE MAT INSTALLATION SHOWN IN SHEET 12.



TYPICAL SECTION E-E

HORIZONTAL 1" = 5'
VERTICAL 1" = 20'



| REV. | DATE | DESCRIPTION | BY |
|------|--------|-------------|-----|
| 1 | 4/4/14 | ADDENDUM 1 | KPR |



COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL ST.
STE. 1501
BATON ROUGE, LOUISIANA 70801

DRAWN BY: WAC

DESIGNED BY: WAC

EAST MARSH ISLAND MARSH CREATION
POST-CONSTRUCTION
MAINTENANCE EVENT

STATE PROJECT NUMBER: TV-21

FEDERAL PROJECT NUMBER:

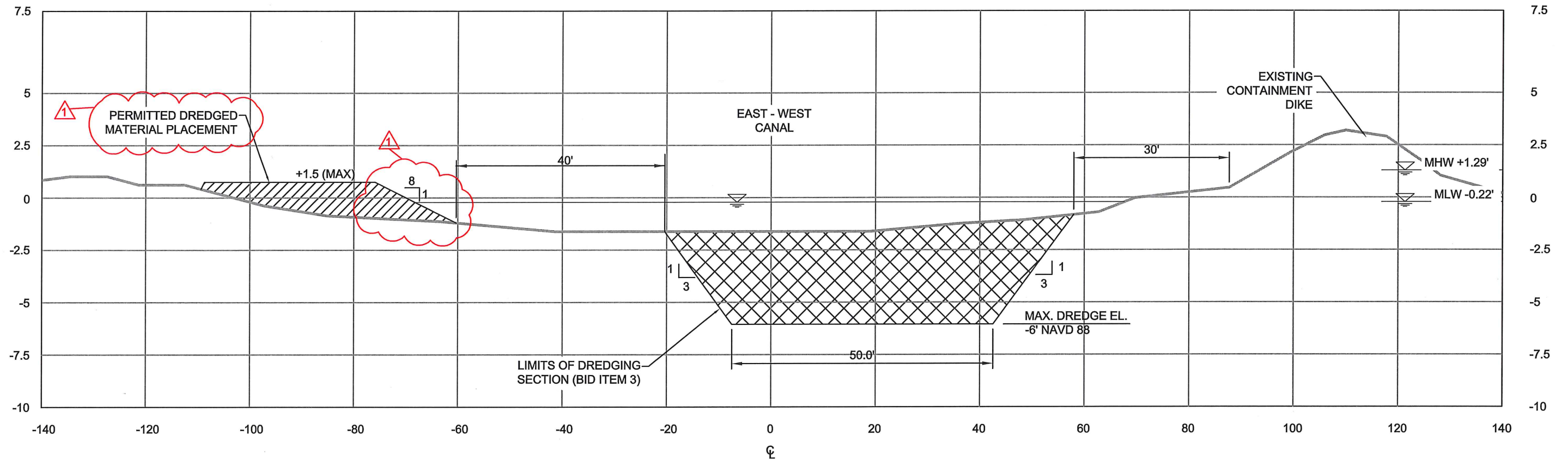
APPROVED BY: BJK

TEMPORARY ROCK
PLUG REMOVAL &
BREACH REPAIR

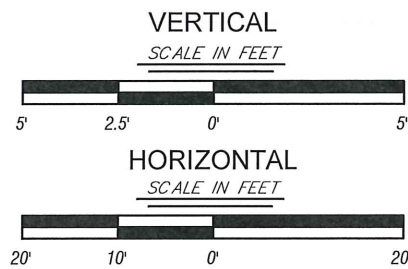
TYPICAL SECTION D-D & E-E

DATE: 1/27/14

SHEET 13 OF 16



TYPICAL SECTION F-F



- NOTES:
1. TYPICAL SECTIONS OF EXISTING FEATURES ARE NOT BASED ON SURVEY DATA.
 2. DREDGED MATERIAL SHALL NOT BE PLACED OUTSIDE THE BANKLINES OF THE EAST-WEST CANAL, UNLESS SPECIFIED IN THE PLANS AND SPECIFICATIONS.
 3. THE EAST-WEST CANAL SHALL ONLY BE DREDGED TO THE MINIMUM DRAFT REQUIREMENT OF CONSTRUCTION VESSELS USED ON THE PROJECT. MATERIAL SHALL NOT BE REMOVED FROM THE CANAL BELOW -6.0' (NAVD88).
 4. THE DREDGED MATERIAL MAY ONLY BE PLACED TO A MAXIMUM ELEVATION OF +1.5' (NAVD88).
 5. THE PROPOSED 25' WIDE EARTHEN PLUG SHALL FOLLOW THE LINES, GRADES, AND ELEVATIONS OF THE PERMITTED DREDGED MATERIAL PLACEMENT AREA IN TYPICAL SECTION F-F.

| | | | | | | | | | | |
|--|--|--|--|---|--|------------------|--|--|---|--|
| | | | | T. BAKER SMITH 1913 A CENTURY OF SOLUTIONS 2013 412 South Van Ave., Houma, LA 70363 (985)868-1050 - tbsmith.com | COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL ST. STE. 1501 BATON ROUGE, LOUISIANA 70801 | | EAST MARSH ISLAND MARSH CREATION POST-CONSTRUCTION MAINTENANCE EVENT | | EAST-WEST CANAL TYPICAL SECTIONS F-F | |
| | | | | | DRAWN BY: WAC | DESIGNED BY: WAC | STATE PROJECT NUMBER: TV-21 | | DATE: 1/27/14 | |
| | | | | REV. DATE DESCRIPTION BY | | | FEDERAL PROJECT NUMBER: | | APPROVED BY: BJK | |
| | | | | 1 4/4/14 ADDENDUM 1 KPR | | | SHEET 14 OF 16 | | | |

ATTACHMENT C

TS-9 “RIP-RAP (130-lb CLASS)”

TS-9 RIP RAP (130-lb CLASS)

- 9.1 Scope: The Contractor shall furnish all materials, labor and equipment necessary for placement of rock on existing earthen containment dike and rock plugs in conformity to the lines, grades and elevations provided on the Plans and these Specifications, or as directed by the engineer. Storage of rock onsite will not be permitted.
- 9.2 Materials: Riprap shall consist of stone that shall not disintegrate upon exposure to the elements or be easily broken from handling, and shall be reasonably free from earth and other foreign materials. When tested in accordance with AASHTO Designation: T 85, the solid weight of rock shall be at least one hundred and fifty-five (155) pounds per cubic foot (based on bulk specific gravity) and the absorption shall not exceed two percent (2%). The least dimension of an individual rock shall be at least one third (1/3) its maximum dimension.
- 9.3 Quarries: On the basis of information and data available to the Engineer, rock which meets the quality requirements of this specification is produced by the sources listed in the following table.

| Producer | Nearest Town to Pit | Pit Designation |
|------------------------------------|----------------------------|---------------------------|
| B.E. Construction Co. | Murfreesboro, AR | Murfreesboro Quarry |
| Boorhem Fields, Inc. | Black Rock, AR | Valley Stone Quarry |
| Bussen Quarries, Inc. | Mehlville, MO | Bussen Quarry |
| Central Stone Co. | Withers Mill, MO | Pitt No. 1 |
| Central Stone Co. | Perry, MO | Pitt No. 9 |
| Central Stone Co. | Danby, MO | Plattin Quarry |
| Dravo Basic Material Co., Inc. | Smithland, KY | Three Rivers Quarry |
| Farmers Limestone Co. | Uniontown, MO | Farmer's Limestone Quarry |
| Graysonia Quarries, Inc. | Delight, AR | Delight Quarry |
| H.M.B. Construction | Dequeen, AR | H.M.B. Quarry |
| Industrial Mineral Products Div/3M | Little Rock, AR | 3M Arch Street Quarry |
| Little Rock Quarry Co., Inc. | Caddo Valley, AR | DeRock Creek Quarry |
| Little Rock Quarry Co., Inc. | Little Rock, AR | Little Rock Quarry |
| McGeorge Corp. | Sweet Home, AR | Granite Mountain Quarry |
| Pine Bluff Sand and Gravel | Delaware, Ark. | River Mountain Quarry |
| Reed Crushed Stone Co. | Lake City, KY | Givertsville Quarry |
| Rigsby-Barnard Quarry, Inc. | Cave-In-Rock, IL | Rigsby-Barnard Quarry |
| Tower Rock Stone Co. | St. Genevieve, MO | Tower Rock Stone Quarry |
| Vulcan Materials Co. | Tuscumbia, AL | Quarry No. 114 |
| Vulcan Materials Co. | Iuka, MS | Iuka Plant |
| West Lake Quarry Materials | Scott City, MO | Gray's Point Quarry |
| West Lake Quarry Materials | Neely's Landing, MO | Neely's Landing Quarry |
| West Lake Quarry Materials | Barnhart, MO | Barnhart Quarry |
| West Lake Quarry No. 2 | Musicks Ferry, MO | West Lake Quarry |

Stone produced by others and which meet the specified quality requirements must be approved by the Engineer. It shall be sampled under the supervision of the Engineer and submitted for testing and have receipt of approval prior to delivery to the project.

- 9.4 Gradation: Riprap for use on this Contract shall be LA DOTD Class 130 lb. graded stone for rock dikes as specified by Section 711.02 (a) of the Louisiana Standard Specifications for Roads and Bridges, latest Edition or Owner approved equivalent. The riprap shall meet the following gradation:

| LA DOTD Class ¹ | Stone Size (lbs.) | Spherical Diameter | % of Stone |
|----------------------------|-------------------|--------------------|------------|
| 130 lb. | 650 | 2.00 | 100 |
| | 260 | 1.46 | 45-100 |
| | 130 | 1.17 | 15-50 |
| | 40 | 0.79 | 0-15 |

¹ The stone size used to define the Riprap Class is the minimum median stone size for the stone class. The minimum thickness of riprap layer shall be no less than the spherical diameter of the maximum stone size in the Riprap Class.

Control of gradation will be by visual inspection either at the source, or Project Site or both. The Engineer reserves the right to verify the gradation of any shipment by testing two uniform size random samples. The equipment, labor and cost for testing the samples shall be provided by the Contractor.

- 9.5 Free Fall Restrictions: When placing riprap on geotextile fabric, the free fall shall not be greater than one (1) foot in order to prevent puncturing geotextile fabric.
- 9.6 Placement: Riprap and material replaced on the rock plug and additional riprap shall be placed to the lines, grades, and elevations shown on the plans. Riprap shall be placed in such a manner that the rock will interlock with the existing underlying or adjacent rock to resist displacement by currents or wave action. After placement, rock will be dressed with bucket so as to produce a relatively tight mass without excessive voids. "Orange peel" or "Clamshell" buckets shall not be used for placement of riprap.
- 9.7 Measurement and Payment: Payment for this item will be made at the contract unit price per ton for Bid Item No. 9, "Rip-Rap (130-lb CLASS)". Price and payment shall constitute full compensation for furnishing all materials and for installing, measuring, and performing all work as specified herein and incidental thereto. The unit of measurement for rock shall be in tons (2,000 pounds). Quantities will be computed to the nearest whole ton using the Barge Displacement Table. The Contractor shall furnish the Engineer the Barge Displacement Table, not less than ten (10) days prior to unloading riprap from any barge for which a displacement table has not previously been furnished and approved. The Contractor shall furnish, with the barge displacement table, a drawing or sketch of each barge, dimensioned in sufficient detail to permit checking of the tables. The drawings shall show, as a minimum, the length, width, and depth of the barge, and dimensions of rake or rakes.

Each such table shall have its accuracy certified by a person or firm, other than the Contractor, customarily performing this service and who has been approved by the Engineer. Each table submitted shall show the name and/or number of the barge, the

barge dimensions, the barge owner, the name of the fabricator, certification and date of certification of the person or firm preparing the table. All new or modified barges shall be field checked for current dimensions by the Contractor, in the presence of the Engineer. Each table submitted shall contain in parallel columns, the freeboard of the barge in feet and tenths from zero (0) to the full depth of the barge, and the corresponding gross displacement to the nearest ton. Each barge shall be suitably marked with two displacement gauging lines along each side of the barge. Each gauging line shall be painted perpendicular to the edge of the barge and be no less than four (4) inches wide and one (1) foot long, on both the deck and side of the barge. Barges with rakes shall have the displacement gauging placed at each corner of the box section between the rakes. If a barge has a box end or ends, the gauging lines shall be placed approximately four (4) feet from the box end. The freeboard will be measured at the four (4) gauging locations and the displacement determined by the use of the "CELMV Standard Barge Tables" from the average of these measurements. The displacement shall be determined before and after the barge is unloaded and the difference between these values shall be the quantity delivered. Additionally, the Contractor shall provide the Engineer with certified weight tickets issued by the stone quarry for each barge.

If barge tables are furnished for freshwater and if the Contractor believes that the barge displacement measurements made within the contract limits of work are being taken in water that has salinity, he will have the option of obtaining water samples and determining the densities or unit weights of these samples. These water samples shall be taken in accordance with ASTM D 3370 (practice A-Grade Sample) at depths of four (4) and eight (8) feet in the area where measurements are made. Water sampling shall be performed when the barges are measured for quantities, both when fully loaded and when empty. Water samples shall be taken by the Contractor and witnessed by the Engineer or his Inspector with the use of "Polypro" 2000 ml. water sampler, or equal. Densities shall be determined as specified in ASTM D 1429 (Method D- Hydrometer Method). Testing shall be done for the Contractor by a certified testing laboratory, and test results certified by this laboratory. After review and approval of the test results by the Engineer, the average of densities obtained at four (4) feet and eight (8) feet will be used as the suitable salt water conversion factor. In all calculations, the unit weight of 62.45 pounds/cubic foot will be used for fresh water.

If the Contractor does not obtain water samples and densities, then no adjustment or conversion factor will be applied to riprap quantities determined by displacement tables. The determination of satisfactorily placed riprap shall be based on survey cross sections. The quantity of riprap placed in the work will be reasonably estimated at each individual work site and quantities adjusted upon completed use of a barge or material, or completion of contract. No payment will be used for unauthorized use of riprap.

ATTACHMENT D

Pre-Bid Conference Attendance Record

**MANDATORY PRE-BID CONFERENCE
ATTENDANCE RECORD**

PROJECT: TV-21 East Marsh Island Marsh Creation Post Construction Maintenance Event

DATE: March 25, 2014 at 10:00 am

LOCATION: CPRA – Lafayette Regional Office, Abdalla Hall Auditorium, 635 Cajundome Blvd, LAFAYETTE, LA 70506

Please Print Clearly

| (Sign-In) Printed Name & Signature | Company Name & Address | Contractor License No. & Classification | Phone No. Fax No. & Email | (Sign-Out) Printed Name & Signature |
|--|--|---|--|--|
| <u>Ralph Herpin</u> <u>Ralph Herpin</u> | <u>Coastal Bridge Co LLC</u> <u>4825 Jamestown Ave</u> <u>Baton Rouge, LA ⁷⁰⁸⁰⁸ 30225</u> | <u># 481</u> | <u>225-766-0244</u> <u>225-766-0425</u> <u>herpinr@Coastalbridge.com</u> | <u>Ralph Herpin</u> <u>Ralph Herpin</u> |
| <u>Mike Ray</u> <u>Mike Ray</u> | <u>CMG Contractors LLC</u> <u>P.O. Box 23116</u> <u>New Orleans LA ⁷⁰¹¹⁷</u> | <u>P206</u> | <u>504-939-0155</u> <u>214-533-5245</u> <u>MRMAY@CMGCON.COM</u> | <u>Mike Ray</u> <u>Mike Ray</u> |
| <u>Darryl Curry</u> | <u>WEEKS MARINE INC</u> <u>304 GAILLE DRIVE</u> <u>COVINGTON, LA.</u> | <u># 31360</u> <u>Heavy Construction</u> | <u>985-991-9047</u> <u>Jcdeville@weeksmarine.com</u> | <u>Darryl Curry</u> <u>Darryl Curry</u> |
| <u>MIKE NITSKA</u> | <u>HYDROTERRA TECH</u> <u>202 JACOBS RUN</u> <u>SCOTT LA</u> | | <u>337-315-2190</u> <u>MIKE.NITSKA@HYDROTERRATEC.COM</u> | <u>Mike Nitska</u> |

**MANDATORY PRE-BID CONFERENCE
ATTENDANCE RECORD**

PROJECT: TV-21 East Marsh Island Marsh Creation Post Construction Maintenance Event

DATE: March 25, 2014 at 10:00 am

LOCATION: CPRA – Lafayette Regional Office, Abdalla Hall Auditorium, 635 Cajundome Blvd, LAFAYETTE, LA 70506

Please Print Clearly

| (Sign-In) Printed Name & Signature | Company Name & Address | Contractor License No. & Classification | Phone No. Fax No. & Email | (Sign-Out) Printed Name & Signature |
|---|--|--|--|--|
| <u>MARK DUBEN</u> | <u>LARRY DOIKON INC.</u> <u>Hwy 70 Supterville La.</u> | <u>32341</u> General | <u>985 637 2892</u> <u>FAX: 985 502 1173</u> | <u>Mark Duben</u> |
| <u>ROLAND MATURIN</u> | <u>APOLLO ENVIRO</u> <u>101 Galco #2</u> <u>LAFAYETTE, LA</u> | | <u>337-522-2344</u> | <u>ROLAND MATURIN</u> <u>Roland Maturin</u> |
| <u>SCOTT SHEPPARD</u> <u>Scott Sheppard</u> | <u>BERTUCCI CONTRACTING</u> <u>P.O. Box 10582</u> <u>JEFFERSON, LA 70181</u> | | <u>504-835-0303</u> <u>504-835-8448 (FAX)</u> | <u>SCOTT SHEPPARD</u> <u>Scott Sheppard</u> |
| <u>WELDON MILLER</u> <u>Weldon Miller</u> | <u>BERRY BOUS</u> <u>1414 RIVER ROAD</u> <u>BERWICK, LA 70342</u> | <u>2162</u> | <u>985-384-8770</u> <u>985-384-8778</u> <u>Weldon@bbgc.com</u> | <u>Weldon Miller</u> |


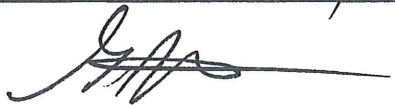


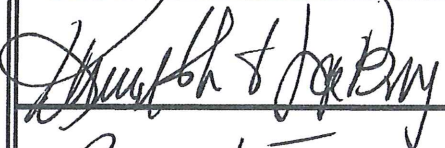
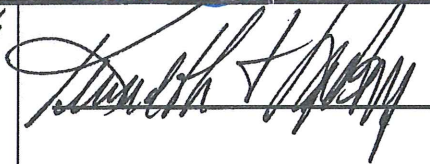
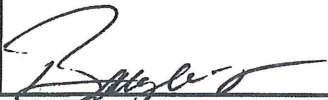
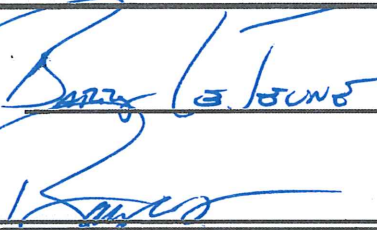
**MANDATORY PRE-BID CONFERENCE
ATTENDANCE RECORD**

PROJECT: TV-21 East Marsh Island Marsh Creation Post Construction Maintenance Event

DATE: March 25, 2014 at 10:00 am

LOCATION: CPRA – Lafayette Regional Office, Abdalla Hall Auditorium, 635 Cajundome Blvd, LAFAYETTE, LA 70506

Please Print Clearly

| (Sign-In) Printed Name & Signature | Company Name & Address | Contractor License No. & Classification | Phone No. Fax No. & Email | (Sign-Out) Printed Name & Signature |
|---|--|--|---|---|
| <u>Glen Ashy</u>  | <u>BEAN Dredging LLC</u> <u>P.O. Box 51657</u> <u>LAF-LA 70505</u> | <u>510</u> | <u>337-234-4501</u> <u>337-238-2371804</u> <u>@gashy@CFBEAN.com</u> | <u>Glen Ashy</u>  |
| <u>Tyler Roy</u>  | <u>Wilco Marsh Buggies</u> <u>PO Box 710</u> <u>Monroe LA 70073</u> | <u>14558</u> <u>Heavy</u> | <u>337-945-8301</u> <u>troy@wilcomarshbuggies.com</u> <u>504-341-8487</u> | <u>William T. Roy</u>  |
| <u>Ken LABRY</u>  | <u>FENSTERMAKER</u> <u>135 Regency Square</u> <u>Lafayette, LA 70508</u> | | <u>337-237-8800 P4</u> <u>337-237-3899 Fax</u> <u>ken1@fenstermaker.com</u> |  |
| <u>Barry LeJeune</u>  | <u>Professional Construction Services</u> <u>8001 Downman Pond</u> <u>New Orleans, La. 70126</u> | <u>8768</u> | <u>504-241-8001</u> <u>504-245-7475</u> <u>barry.lejeune@pcsbuilds.com</u> | <u>Barry LeJeune</u>  |