GENERAL NOTES


<table>
<thead>
<tr>
<th>SECONDARY MONUMENT</th>
<th>ELEVATION</th>
<th>NORTHING</th>
<th>EASTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORS N 10-14</td>
<td>2.37</td>
<td>275,747.40</td>
<td>3,851,567.70</td>
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<td>N 367</td>
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<td>311,850.54</td>
<td>3,878,540.40</td>
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<td>G 276</td>
<td>-0.92</td>
<td>318,588.90</td>
<td>3,904,970.30</td>
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<tr>
<td>G 125</td>
<td>-4.20</td>
<td>320,488.49</td>
<td>3,900,899.90</td>
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</tbody>
</table>

2. MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) WERE CALCULATED FROM THE GAGI CRMS/016 LOCATED 4 MILES SOUTH OF VENICE. DATA FROM JUNE 25, 2007 TO JUNE 22, 2010 WAS USED. ELEVATIONS ARE REFERENCES TO NAVD 88, U.S. FEET. MHW = +3.0' and MLW = -0.3'.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING SAFE ACCESS TO THE PROJECT AND FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT AREA. ALL EQUIPMENT SHALL BE FLOATING AT ALL TIMES DURING TRANSIT TO AND FROM THE PROJECT SITE. THE CPRA CONSTRUCTION ENGINEER OR THEIR REPRESENTATIVE SHALL MONITOR THE LOCATION OF EQUIPMENT DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL NOT, AT ANYTIME, TRAVERSE EXISTING MARSH OR VEGETATIVE WETLANDS OUTSIDE FILL AREAS UNLESS OTHERWISE DIRECTED BY THE CPRA CONSTRUCTION ENGINEER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS THREE (3) WORKING DAYS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BOOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE CLEARANCES FROM THE PIPELINES SET IN THE PLANS AND SPECIFICATIONS. SEE SPN-11 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. CALL LOUISIANA ONE CALL AT 1-800-272-3020 48 HOURS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.

GULF SOUTH PIPELINE: TEXAS EASTERN TRANSMISSION: TENNESSEE GAS PIPELINE

HAROLD SILL: PAT ADAMS
(504) 415-1064: (985) 876-6761 EXT. 8851

COLUMBIA GULF TRANSMISSION: LOUISIANA STATE GAS CORP.

KEITH SCHAUBHUT: JEROME SNYDER: DARRON DUHON: MORRIS P. HEBERT
(504) 415-0553: (985) 876-2731: (337) 285-4972

SOUTHERN NATURAL GAS: HILCORP ENERGY COMPANY

KURT CHILDSBERRY: GEORGE MOSCH
(860) 337-3620: (860) 233-6417

6. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR MODIFICATIONS AND VARIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED IN WRITING BY THE ENGINEER.

7. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.


9. THE EARTHEN RIDGE, EARTHEN CONTAINMENT DIES, MARSH CREATION AREAS, OFF-SHORE BORROW AREAS, AND SHEET PILE CLOSURE STRUCTURES MAY BE REVISED BY THE CPRA CONSTRUCTION ENGINEER AT THE TIME OF CONSTRUCTION TO REFLECT CHANGES IN FIELD CONDITIONS.

10. ESTIMATED HYDRAULIC DREDGING QUANTITIES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM 08-04-2010 TO 09-23-2010. QUANTITIES WERE CALCULATED USING AUTOCAAD AND AERIAL PHOTOGRAPHY FOR SECTIONS 20-00 THROUGH 100-00.

THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE BORROW AREAS AND ALL PROPOSED ACCESS CORRIDORS PRIOR TO MOBILIZATION FOR CONSTRUCTION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WITH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO MOBILIZATION. ADDITIONAL TRACK LINES SHALL BE RUN IN ACCORDANCE WITH TS-2.3.9 OF THE SPECIFICATIONS.

11. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE PROPOSED MARSH CREATION AREAS.

**SUMMARY OF ESTIMATED QUANTITIES**

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>ESTIMATED QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MOBILIZATION AND DEMOBILIZATION</td>
<td>LUMP SUM</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>CLEARING AND GRUBBING</td>
<td>LUMP SUM</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>MARSH CREATION HYDRAULIC DREDGING (BORROW CUT VOLUME)</td>
<td>CUBIC YARDS</td>
<td>3,442,624</td>
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<tr>
<td>4</td>
<td>EARTHEN CONTAINMENT DIES</td>
<td>LINEAR FOOT</td>
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<tr>
<td>5</td>
<td>EARTHEN RIDGE</td>
<td>LINEAR FOOT</td>
<td>18,790</td>
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<td>6</td>
<td>CONSTRUCTION SURVEYS</td>
<td>LUMP SUM</td>
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<td>7</td>
<td>STEEL SHEET PLACING</td>
<td>SQUARE FOOT</td>
<td>45,826</td>
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<td>8</td>
<td>SAND FILL</td>
<td>CUBIC YARDS</td>
<td>22,569</td>
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<tr>
<td>9</td>
<td>SETTLEMENT PLATES</td>
<td>EACH</td>
<td>11</td>
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<td>10</td>
<td>ACCESS DREDGING</td>
<td>LUMP SUM</td>
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</tr>
<tr>
<td>11</td>
<td>PIPELINE REMOVAL</td>
<td>LUMP SUM</td>
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</tr>
</tbody>
</table>

1. THE LINEAR FOOTAGE OF EARTHEN CONTAINMENT DIES AND EARTHEN RIDGE WAS ESTIMATED FOR CONSTRUCTION USING AUTOCAAD, AERIAL PHOTOGRAPHY, FIELD SURVEYS, AND HYDRAULIC MODELING. THE OWNER RESERVES THE RIGHT TO REQUEST THAT ADDITIONAL EARTHEN CONTAINMENT DIES AND EARTHEN RIDGE BE BUILT FOR CONSTRUCTION AT THE CONTRACTOR'S BID PRICE/LINEAR FOOT.

2. THE HYDRAULIC DREDGING QUANTITIES FOR THE MARSH CREATION AREAS ARE BASED ON THE OFF-SHORE BORROW AREA CUT VOLUME. ACTUAL QUANTITIES FOR PAYMENT WILL BE BASED ON SURVEYS PERFORMED AS PART OF THIS CONTRACT AS REQUIRED IN TS-2 "CONSTRUCTION SURVEYS" OF THE SPECIFICATIONS.

3. 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 COMPILING BIDS AND THE RIGHT IS RESERVED BY THE OWNER TO INCREASE/DECREASE SUCH QUANTITIES AS MAY BE NECESSARY TO COMPLETE THE WORK AND/OR REMAIN WITHIN FUNDING LIMITS.

**COASTAL PROTECTION AND RESTORATION AUTHORITY**

**GRAND ISLAND MAHSI AND BIDEA REDEPOSITION AUTHORITY**

**STATE PROJECT NUMBER**: BA-48

**FEDERAL PROJECT NUMBER**: BA-NN

**DATE**: OCTOBER 2013

**SHEET 2 OF 14**
NOTES:
1. BASED ON RECOMMENDATIONS FROM THE GEOTECHNICAL ANALYSIS A TWO LIFT SYSTEM IS REQUIRED TO MEET THE LONG TERM TARGET ELEVATIONS.
2. THE CONTRACTOR SHALL CONSTRUCT THE MARSH CREATION AREAS IN THE TWO CONSTRUCTION LIFT SEQUENCE AS SPECIFIED IN TS-8.5 OF THE SPECIFICATIONS.
3. ALL MARSH CREATION AREAS SHALL BE DEWATERED IN ACCORDANCE WITH TS-13 OF THE SPECIFICATIONS.

LEGEND

COASTAL PROTECTION AND RESTORATION AUTHORITY
420 LAFAYETTE STREET
BATON ROUGE, LOUISIANA 70801

GRAND ISLAND MARSH AND RIDE RESTORATION
STATE PROJECT NUMBER: BI-48
FEDERAL PROJECT NUMBER: BA-48
DATE: OCTOBER 2013

MARSH CREATION AREA B
TYPICAL SECTION D-E

SH 11 OF 14

DRAWN BY: KRIST CANTO
DESIGNED BY: TWE FITZGERALD, P.E.
APPROVED BY: RUDOLPH SUGNAUX, P.E.
NOTES:
1. BASED ON RECOMMENDATIONS FROM THE GEOTECHNICAL ANALYSIS A TWO LIFT SYSTEM IS REQUIRED TO MEET THE LONG-TERM TARGET ELEVATIONS.
2. THE CONTRACTOR SHALL CONSTRUCT THE MARSH CREATION AREAS IN THE TWO CONSTRUCTION LIFT SEQUENCE AS SPECIFIED IN TS-8.6 OF THE SPECIFICATIONS.
3. ALL MARSH CREATION AREAS SHALL BE Dewatered IN ACCORDANCE WITH TS-13 OF THE SPECIFICATIONS.
NOTES:
1. ALL STEEL SHEET PILES SHALL BE PCI-27 (MINIMUM SECTION MODULUS: 30.20 IN3/FT., MOMENT OF INERTIA: 104.20 IN4/FT.) OR ENGINEER APPROVED EQUIVALENT.
2. STEEL SHEET PILES SHALL BE ENSCAPULATED WITH IN-SITU MATERIAL AS SPECIFIED IN TS-10.7 OF THE SPECIFICATIONS.
3. SEE SHEET 6 FOR SHEET PILE LOCATION.
GRADING STAKE SIGN NOTE:
The grading stake sign shall be constructed using a rigid
substrate with engineer-grade reflective sheeting.
See TS-8.0 of the specifications for additional details.

SETTLEMENT PLATE NOTES:
1. Settlement plates shall be hot dipped galvanized after fabrication.
2. Location and elevation will be recorded as specified in TS-2.0.

COASTAL PROTECTION AND
RESTORATION AUTHORITY
401 LAUREL, P.O. BOX 500
BATON ROUGE, LOUISIANA 70822

REV. DATE DESCRIPTION DRAWN BY: DESIGNED BY: YAGE FITZGERALD, P.E.

GRAND ILE MARSH AND
RIDGE RESTORATION
STATE PROJECT NUMBER: 84-46
FEDERAL PROJECT NUMBER: BA-45
DATE: OCTOBER 2013

GRADE STAKE AND
SETTLEMENT PLATE DETAIL

APPROVED BY: RUDOLPH RUKOSKA, P.E.
SHEET 24 OF 16