**SUMMARY OF ESTIMATED QUANTITIES**

**BASE BID**

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>ITEM Description</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mobilization and Demobilization</td>
<td>TON</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Project Surveys</td>
<td>TON</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Access and Floatation Channels</td>
<td>TON</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Fuel</td>
<td>TON</td>
<td>14300</td>
</tr>
<tr>
<td>5A</td>
<td>Permanent Warning Signs</td>
<td>EACH</td>
<td>15</td>
</tr>
<tr>
<td>5B</td>
<td>Permanent Warning Signs (Using Only)</td>
<td>EACH</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Woven Geotextile Fabric</td>
<td>SQ YD</td>
<td>11000</td>
</tr>
<tr>
<td>7</td>
<td>De-Energize Power Lines</td>
<td>EACH</td>
<td>4</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

1. All elevations are given in the North American Vertical Datum of 1988 (NAVD 88). All horizontal coordinates are given in the North American Datum of 1983 (NAD 83).

2. The contractor shall be responsible for navigating within the limits of the project plan area. CPRA or assigned project representative shall monitor the location during construction.

3. The contractor shall not, at any time, tread on existing marsh or vegetative wetlands unless otherwise directed by the CPRA project engineer or assigned project representative.

4. The locations of utilities, pipelines, and structures shown herein have been determined from data provided by others. The actual locations may vary from these shown and it is possible some may exist that have not been shown. The contractor shall be on alert for such utilities, pipelines, and structures and report them immediately to the CPRA project engineer or assigned project representative. The contractor shall verify the location of all utilities, pipelines, and structures prior to commencing any work.

5. Prior to floating equipment beneath electrical transmission lines, the contractor shall coordinate the de-energizing of power lines. For power lines adjacent to limits of work, contact Entergy.

6. The contractor shall be responsible for notifying pipeline operators 48 hours in advance of the work. All pipelines shall be marked with buoys by the contractor. The contractor shall mark/one buoy in the area being out of service. The contractor may be required to adjust the construction schedule if Entergy cannot grant the requested service interruptions.

7. The contractor shall be responsible for notifying pipeline operators 48 hours in advance of the work. All pipelines shall be marked with buoys by the contractor. The contractor shall mark/one buoy in the area being out of service. The contractor may be required to adjust the construction schedule if Entergy cannot grant the requested service interruptions.

8. Volumes shown are for bidding purposes only and were calculated according to conditions surveyed in 2016. Dredge cross-sections will be surveyed by the contractor before and after for backfill verification. All surveying and measurements by the contractor for measurement and payment will be monitored by the CPRA project engineer or assigned project representative. The CPRA project engineer or assigned project representative shall review all before and after survey measurements and payment calculations. If a discrepancy cannot be resolved, the construction manager shall perform a cross-section survey to verify the contractors work.

9. Dredged material shall be placed in areas shown on the plans.

10. Dredged material shall not impede flow of natural waterways nor be stockpiled where natural waterways’ interests are displaced.

11. The contractor is responsible for verifying existing conditions prior to commencement of work. Any observed discrepancies between pre-construction survey and the project plans need to be documented and provided to CPRA project engineer or assigned project representative.

12. Disturbance to marine traffic needs to be avoided by the contractor. Necessary warning signs/temporary navigational aids shall be installed in accordance with USCG regulations. Sequence of construction and plan for maintaining marine traffic through the structure shall be submitted to CPRA for approval.

13. Existing elevations of structures and natural ground are based on surveyed data conducted in 2014. In areas where survey data was unavailable, the existing conditions were extended at the same elevation as the last measured point. The drawings indicate the location of 2014 and extended data used to depict existing conditions.

14. The south coastal wetlands (SCW) Secondary GPS Network Monument, “BA02SM01 AND/OR BA02SM02” shall be used for horizontal and vertical control. The south coastal wetlands (SCW) Secondary GPS Network Monument, “BA02SM01 AND/OR BA02SM02” shall be used for horizontal and vertical control. The south coastal wetlands (SCW) Secondary GPS Network Monument, “BA02SM01 AND/OR BA02SM02” shall be used for horizontal and vertical control.

15. Mean high water and mean low water data based upon 2008 monitoring data provided by CPRA.

**GENERAL NOTES & QUANTITIES**

**OPERATIONS DIVISION**

Coastal Protection and Restoration Authority

State Project Number: BA-02

GIWW to Clovelly Hydrologic Restoration 2015 Maintenance Project

Date: November 2015

Sheet 2 of 18
NOTES:
1. ACCESS ROUTES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACCESS CHANNELS OTHER THAN THOSE SHOWN ON THE PLANS MAY BE REQUIRED TO REACH LAKE RIM TO CONSTRUCT PROPOSED SHORELINE PROTECTION. IT IS THE CONTRACTOR’S RESPONSIBILITY TO DETERMINE ACCESS CHANNEL REQUIREMENTS PRIOR TO SUBMITTING BID AND INCLUDE IN BID PRICE.

2. PRIOR TO FLOATING EQUIPMENT BENEATH ELECTRICAL TRANSMISSION LINES, THE CONTRACTOR SHALL COORDINATE THE DE-ENERGIZING OF POWER LINES. FOR POWER LINES ADJACENT TO LIMITS OF WORK, CONTACT ENTERGY: JIMMY SHOLAR CELL: 504-615-5540 EMAIL: JSHOLAR@ENTERGY.COM SEE NOTE 5 ON SHEET 2 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DE-ENERGIZING.

3. SEE NOTE 4, 6 AND 7 ON SHEET 2.
TYPICAL SECTION
ROCK DIKE A
STA 100+00 TO 106+00

SECTION VIEW

TYPICAL SECTION
ROCK DIKE A
STA 200+00 TO 200+55

SECTION VIEW
**TYPICAL SECTION**

**ROCK DIKE:**

**STA 106+01 TO 117+31**

**NOTES:**

1. CONTRACTOR SHALL INSTALL PERMANENT WARNING SIGNS ADJACENT TO SHORE UPON ROCK DIKE'S COMPLETION. THE SIGNS SHOULD BE INSTALLED 40 FEET FROM THE TOE OF THE ROCK DIKE ALONG 200 FOOT INTERVALS. THE TEMPORARY WARNING SIGNS MAY BE REUSED FOR THIS PURPOSE IF FOUND TO BE IN ACCEPTABLE ORDER BY THE OWNER.
NOTES:

1. THE END COORDINATES OF THE PROPOSED ROCK DIKES ARE APPROXIMATE. THE ACTUAL ENDS MAY BE ADJUSTED IN FIELD BY ENGINEER TO COMPLETELY PROTECT THE SHORE LINE.

2. LOCATIONS OF PERMANENT WARNING SIGNS MAY BE ADJUSTED IN THE FIELD BY ENGINEER.

3. SEE SHEET 7 FOR ADDITIONAL ROCK DIKE ALIGNMENT INFORMATION.
NOTES:

1. THE END COORDINATES OF THE PROPOSED ROCK DIKES ARE APPROXIMATE. THE ACTUAL ENDS MAY BE ADJUSTED IN FIELD BY ENGINEER TO COMPLETELY PROTECT THE SHORE LINE.

2. LOCATIONS OF PERMANENT WARNING SIGNS MAY BE ADJUSTED IN THE FIELD BY ENGINEER.

3. SEE SHEET 8 FOR ADDITIONAL ROCK DIKE ALIGNMENT INFORMATION.

4. THE CONTRACTOR MAY INSTALL THE DIKE FROM STATION 100+00 TO 106+00 USING EITHER THE ACCESS CHANNEL OR CRANE MATS AT HIS OPTION.

5. IF THE POWERLINE CANNOT BE DE-ENERGIZED BETWEEN STATIONS 106+00 AND 117+31 AND STATIONS 200+00 TO 200+55, THE CONTRACTOR SHALL INSTALL THE DIKE USING CRANE MATS.
NOTES:

1. THE END COORDINATES OF THE PROPOSED ROCK DIKES ARE APPROXIMATE. THE ACTUAL ENDS MAY BE ADJUSTED IN FIELD TO COMPLETELY PROTECT THE SHORE LINE.

2. LOCATIONS OF PERMANENT WARNING SIGNS MAY BE ADJUSTED IN THE FIELD BY ENGINEER.

SCALE: 1" = 100' (11" X 17")
NOTES:

1. The end coordinates of the proposed rock dikes are approximate. The actual ends may be adjusted in field to completely protect the shore line.

2. Locations of permanent warning signs may be adjusted in the field by engineer.

SCALE: 1"= 100' (11"X 17")
GIWW TO CLOVELLY HYDROLOGIC RESTORATION
2015 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02
FEDERAL PROJECT NUMBER: BA-02

APPROVED BY: JRS
DESIGNED BY: SRH
DRAWN BY: SRH

COASTAL PROTECTION AND RESTORATION AUTHORITY
OPERATIONS DIVISION
450 LAUREL STREET, SUITE 120
BATON ROUGE, LOUISIANA 70801

www.stanleyconsultants.com

LEGEND
- EXISTING PROFILE
- PROPOSED ROCK DIKE
- PROPOSED EXCAVATION AREA
- TEMPORARY SOIL LOCATION

CROSS SECTIONS B

103+68.44

104+67.57

105+69.51

REV. DATE DESCRIPTION BY

COBW TO CLOVELLY HYDROLOGIC RESTORATION
2015 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02
FEDERAL PROJECT NUMBER: BA-02
DATE: NOVEMBER 2015

CROSS SECTIONS B
TYPICAL GALVANIZED WOOD PILE CAP

NO SCALE

24”x24”, 26 GA GALV
FLASHING. ATTACH
USING GALV NAILS.

SEE NOTE 4

12”x60’ TREATED
TIMBER PILES

CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF SUBSTRUCTURES
FOLLOWING APPLICABLE LAWS.

ALL 3/4” DIAMETER ALL-THREAD TIE RODS SHALL BE SECURED BY
NOTCHED IN PLACE Ogee WASHERS AND TACK WELDED NUTS.

GALVANIZED WOOD PILE CAPS SHALL BE INSTALLED
ON EACH PILE AT STRUCTURE.

THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY
PAINT PRIOR TO PLACING CAP.

NOTES:

1. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF SUBSTRUCTURES
   FOLLOWING APPLICABLE LAWS.

2. ALL 3/4” DIAMETER ALL-THREAD TIE RODS SHALL BE SECURED BY
   NOTCHED IN PLACE Ogee WASHERS AND TACK WELDED NUTS.

3. GALVANIZED WOOD PILE CAPS SHALL BE INSTALLED
   ON EACH PILE AT STRUCTURE.

4. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY
   PAINT PRIOR TO PLACING CAP.

GIWW TO CLOVELLY HYDROLOGIC RESTORATION
2015 MAINTENANCE PROJECT

STATE PROJECT NUMBER: BA-02
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APPROVED BY: JRS
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DRAWN BY: SRH

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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NAVIGATIONAL AID DETAILS

DRAWN BY: SRH
DESIGNED BY: SRH
APPROVED BY: JRS

STATE PROJECT NUMBER: BA-02
FEDERAL PROJECT NUMBER: BA-02
DATE: NOVEMBER 2015
SHEET 10 OF 18