# SUMMARY OF ESTIMATED QUANTITIES

**EAST TIMBALIER ISLAND (NET SECTION BORROW)**

## O R I G I N A L (C H A R T)

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>PROPOSAL A QUANTITY</th>
<th>PROPOSAL B QUANTITY</th>
<th>PROPOSAL C QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MOBILIZATION/DEMOBILIZATION</td>
<td>LUMP</td>
<td>LUMP</td>
<td>LUMP</td>
<td>LUMP</td>
</tr>
<tr>
<td>2</td>
<td>HYDRAULIC FILL</td>
<td>cu. yds</td>
<td>2,743,000</td>
<td>2,265,000</td>
<td>2,265,000</td>
</tr>
<tr>
<td>3</td>
<td>CONTAINMENT DIKES</td>
<td>ln. ft.</td>
<td>32,800</td>
<td>32,800</td>
<td>32,800</td>
</tr>
<tr>
<td>4</td>
<td>RUBBLE MOUND REVETMENT</td>
<td>ton</td>
<td>26,600</td>
<td>26,600</td>
<td>31,700</td>
</tr>
<tr>
<td>5</td>
<td>GRADING AND SHAPING</td>
<td>sta.</td>
<td>146</td>
<td>146</td>
<td>146</td>
</tr>
</tbody>
</table>

## AS BUILT (C H A R T)

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>DESCRIPTION</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MOBILIZATION/DEMOBILIZATION</td>
<td>LUMP</td>
</tr>
<tr>
<td>2</td>
<td>HYDRAULIC FILL</td>
<td>2,627,115 cu. yds</td>
</tr>
<tr>
<td>3</td>
<td>CONTAINMENT DIKES</td>
<td>5,990 ln. ft.</td>
</tr>
<tr>
<td>4</td>
<td>RUBBLE MOUND REVETMENT</td>
<td>26,978 TONS</td>
</tr>
<tr>
<td>5</td>
<td>GRADING AND SHAPING</td>
<td>96 sta</td>
</tr>
<tr>
<td>6</td>
<td>ALT. #1 HYD. FILL (PROPOSAL B &amp; C)</td>
<td>69,161 cu. yds</td>
</tr>
<tr>
<td>7</td>
<td>ALT. #2 RUBBLE MOUND (PROPOSAL C)</td>
<td>69,161 cu. yds</td>
</tr>
<tr>
<td>8</td>
<td>CHANGE ORDER #1 DIKES</td>
<td>8,400 ln. ft.</td>
</tr>
</tbody>
</table>

## GENERAL NOTES

1. The contractor shall be responsible for notifying the limits of the dredge plan area. The engineer’s project representative and representatives from DNR & TDA shall monitor the location during construction.
2. The contractor shall be responsible for notifying pipeline operators 48 hours in advance of the work. The contractor shall mark and maintain buoys during construction and shall have adequate communication equipment on the dredge and adjacent areas. The following is a list of pipeline operators known to have pipelines in the vicinity.
3. The contractor shall use good judgement in determining whether there are others. The contractor shall not dredge within 50 ft. of a pipeline on or near the island.
4. DNR has reviewed the East Timbalier Island for oyster leases and there appear to be no oyster leases nearby. DNR has also recommended to the Louisiana Department of Wildlife & Fisheries that no applications in the area be issued.
5. Sand source information taken by Dore Engineering, Inc.
6. Volumes shown are for bedding purposes only and were calculated according to conditions surveyed in May 1987. Before and after dredging cross-sections will be surveyed by the contractor for measurement and payment purposes. All sand and work performed by the contractor will be monitored by the engineer. The engineer will review all before and after survey cross-sections and measurements and payment calculations. If a discrepancy cannot be resolved the engineer shall perform a cross-section survey to verify the contractor’s work.
7. Recommended borrow areas are marked on sheets 12 to 12 of the drawings. Logs of these sand core samples are available upon request. Based on information given in these drawings, the contractor shall develop a dredging plan to be approved by the engineer. In no case, however, will the contractor dredge below 15 feet below the existing bottom.
8. Alignment of back dikes shown on the drawings is approximate and shall be located in the field by the project engineer using cross sections and/or the current vegetative line.
9. Estimated quantities were calculated using a 1.15 cut-to-fill (loss) factor.
10. Back containment dike coordinates may be provided by the engineers.
AS BUILT NOTE:
1. LAYOUT IS FOR AS BUILT.
2. RECONSTRUCTION WIDTH IS NOT TO SCALE. SEE SECTION SHEET S OF 23.

GULF OF MEXICO

AS BUILT
AS BUILT

1. LAYOUT IS FOR AS BUILT.
2. CONTRACTOR SHALL NOT EXCAVATE WITHIN 100' OF THE 12" ROUGH GATEWAY PIPELINE. (SEE NOTE 2 OF SHEET 2)

AS BUILT NOTE:
AS BUILT

AS BUILT NOTE:
1. LAYOUT IS FOR AS BUILT.
2. DEPTH / WIDTH IS NOT TO SCALE.
   SEE TYPICAL SECTION SHEET 5 OF 24.
3. CONTRACTOR SHALL NOT EXCAVATE WITHIN
   100' OF THE 8" OILLINE PIPELINE.
   (SEE NOTE 2 OF SHEET 2)

AS BUILT COORDINATE LIST

<table>
<thead>
<tr>
<th>POINT</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>3227077.46</td>
<td>1474909.25</td>
</tr>
<tr>
<td>44</td>
<td>3226567.45</td>
<td>1478012.70</td>
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<tr>
<td>45</td>
<td>3226414.67</td>
<td>1480301.17</td>
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<tr>
<td>49</td>
<td>3227430.12</td>
<td>1480702.69</td>
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<tr>
<td>47</td>
<td>3227343.02</td>
<td>1480897.68</td>
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<tr>
<td>48</td>
<td>3227303.51</td>
<td>1480561.13</td>
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<td>49</td>
<td>3227342.86</td>
<td>1479737.13</td>
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<td>50</td>
<td>3227350.09</td>
<td>1479787.64</td>
</tr>
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<td>51</td>
<td>3227363.17</td>
<td>1479717.66</td>
</tr>
<tr>
<td>51</td>
<td>3227363.17</td>
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<td>52</td>
<td>3227360.23</td>
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<td>53</td>
<td>3227367.50</td>
<td>1480205.29</td>
</tr>
<tr>
<td>54</td>
<td>3227367.50</td>
<td>1480205.29</td>
</tr>
<tr>
<td>55</td>
<td>3227360.41</td>
<td>1479851.35</td>
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<tr>
<td>56</td>
<td>3227356.48</td>
<td>1479815.82</td>
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<tr>
<td>57</td>
<td>3227359.59</td>
<td>1479719.33</td>
</tr>
<tr>
<td>58</td>
<td>3227359.59</td>
<td>1479719.33</td>
</tr>
<tr>
<td>59</td>
<td>3227359.59</td>
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<td>1479719.33</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS
PROJECT LAYOUT AERIAL

SHEET NO. 8 OF 24
AS BUILT NOTE:
1. NO WORK WAS DONE TO EFFECT THIS SHEET.
AS BUILT NOTE:

1. CONTRACTOR REMOVED MATERIAL FROM SAND SOURCE C ONLY.

2. FOR ACTUAL PERCENTAGES OF SAND EXPLANATION REFER TO GEOTECHNICAL SECTION IN FINAL REPORT.

AS BUILT
NOTES:
1. CONTOURS SHOWN ARE PERCENTAGES OF SAND.
2. LOCATION OF MATERIAL TO BE DUMPED OUT BY THE CONTRACTOR PRIOR TO DREDGING. CONTRACTOR SHALL BE REMEMBEE FOR DAMAGE TO ANY OBJECTS MENTIONED IN THE CONTRACT.

AS BUILT NOTE:
1. CONTRACTOR REMOVED MATERIAL FROM SAND SOURCE C ONLY.
2. FOR ACTUAL PERCENTAGES OF SAND EXPLANATION REFER TO GEO-TECHNICAL SECTION IN FINAL REPORT.

AS BUILT
10'-15' DREDGING DEPTH
SAND SOURCE C COORDINATES

<table>
<thead>
<tr>
<th>POINT</th>
<th>10'-15' DREDGING DEPTH SAND SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-3</td>
<td>&gt;= 70% AREA (SQ. FT.)</td>
</tr>
<tr>
<td></td>
<td>669,755.62</td>
</tr>
<tr>
<td>TOTAL</td>
<td>669,755.62</td>
</tr>
</tbody>
</table>

NOTES:
1. CONTOURS SHOWN ARE PERCENTAGES OF SAND.
2. LOCATION OF SOURCES WILL BE DETERMINED BY THE CONTRACTOR.
   CONTRACTOR IS NOT RESPONSIBLE FOR THE LOCATION OF SOURCES IN BANK.

AS BUILT NOTE:
1. CONTRACTOR REMOVED MATERIAL FROM SAND SOURCE C ONLY.
2. FOR ACTUAL PERCENTAGES OF SAND EXPLANATION REFER TO GEO TECHNICAL SECTION IN FINAL REPORT.
### SAND SOURCE VOLUME SUMMARY

<table>
<thead>
<tr>
<th>SAND SOURCE REGION</th>
<th>VOLUME (CU. YDS.) (0'–5' DREDGING DEPTH)</th>
<th>VOLUME (CU. YDS.) (5'–10' DREDGING DEPTH)</th>
<th>VOLUME (CU. YDS.) (10'–15' DREDGING DEPTH)</th>
<th>TOTAL VOLUME (CUBIC YARDS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3,186,000</td>
<td>8,547,974</td>
<td>--</td>
<td>6,733,970</td>
</tr>
<tr>
<td>B</td>
<td>675,350</td>
<td>190,082</td>
<td>--</td>
<td>865,432</td>
</tr>
<tr>
<td>C</td>
<td>2,091,798</td>
<td>1,996,164</td>
<td>1,201,982</td>
<td>5,289,948</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>5,953,554</td>
<td>9,594,150</td>
<td>1,201,982</td>
<td>16,749,686</td>
</tr>
</tbody>
</table>

**NOTES:**
1. CONTOURS SHOWN REPRESENT DEPTH OF WATER.
2. LOCATION OF PREMISES TO BE DUG OUT BY THE CONTRACTOR DETERMINED BASED ON CONTRACTOR'S JUDGMENT. MATERIAL REMOVED IS TO BE LABORATORY TESTED VIA A FORM OF USUAL AND CUSTOMARY TEST METHODS AS A RESULT OF HIS OR HIS SUBCONTRACTORS OPERATIONS.

### AS BUILT NOTE:
1. CONTRACTOR REMOVED MATERIAL FROM SAND SOURCE C ONLY.
2. FOR ACTUAL PERCENTAGES OF SAND EXPLANATION REFER TO GEOFLEXIALICATION SECTION IN FINAL REPORT.

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**DEPARTMENT OF NATURAL RESOURCES**  
**COASTAL RESTORATION DIVISION**

**EAST TIMBALIER ISLAND SEDIMENT RESTORATION PROJECTS**  
**SAND SOURCE VOLUME SUMMARY**  
**AND WATER DEPTH CONTours**

**AS BUILT**

**DATE:** 02/23/26  
**SCALE:** 1' = 1000'  
**SHEET:** 13 OF 24
NOTES:
1. CROSS-SECTIONS SHOWN LOOKING EASTERLY.
2. ALL ELEVATIONS REFERENCED TO N.E.V.D.

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

LEGEND

DESIGN, TEMPLATE
(INCLUDES 1999 FIELD CHANGES)

AS BUILT GRADE (JANUARY 2000)

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
EAST TIMBERLIER ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

PICIOLLA & ASSOCIATES
CONSULTING ENGINEERS & SURVEYORS
CUT OFF, LOUISIANA

BB-180
03/26/99
10-00-00
100' (EAST CROSS-SECTION)
100' (EAST CROSS-SECTION)

MICHAEL J. PITCHER
D.B.R.

DESIGNED BY:
TEIL INC.

DRAWN BY:

T.P.C.

SIGNED BY:

D.B.R.

DATE:
02/23/98

SHEET:
18 OF 24

SCALE:
AS SHOWN
NOTES:
1. CROSS-SECTIONS SHOWN
2. ALL ELEVATIONS ARE REFERENCED TO N.L.V.D.

SCALE: HORIZ. 1" = 100'  VERT. 1" = 10'

LEGEND
DESIGN TEMPLATE
(INCLUDES 1999 FIELD CHANGES)

AS BUILT

DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION
CONSULTING ENGINEERS & SURVEYORS
EAST THIBAULT ISLAND SEDIMENT RESTORATION PROJECTS
CROSS-SECTIONS

PICCIOLA & ASSOCIATES
10/23/98
23 of 24
DON: AS SHOWN
NOTES:
1. CROSS-SECTIONS SHOWN LOOKING EAST. 
2. ALL ELEVATIONS ARE REFERENCED TO N.L.V.S.

SCALE: HORIZ. 1" = 100' 
VERT. 1" = 10'

AS BUILT