

**TABLE B-1**  
**PROJECT COST ESTIMATE**

Thu 29 May 2003

U.S. Army Corps of Engineers

Eff. Date 10/01/02 PROJECT MHF310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

TIME 07:42:55

TITLE PAGE 1

MANATEE HARBOR - LRR/PAC REPORT  
TURNING BASIN AND E.C. WIDENER  
PLAN ALTERNATIVES  
(Based on actual contract prices  
with Revised Contingency)

Designed By: CESAJ-EN-DL  
Estimated By: CESAJ-EN-C

Prepared By: B. BLAKE

Preparation Date: 05/29/03  
Effective Date of Pricing: 10/01/02

Sales Tax: 7.30%

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Thu 29 May 2003

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Eff. Date 10/01/02 PROJECT MHP310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

PROJECT NOTES

TITLE :

REVISED PLANNING ESTIMATE INCLUDING PROFIT AND CONTINGENCY

MANATEE HARBOR, LRR AND PAC REPORT, TURNING BASIN AND E.C. WIDENER PLAN ALTERNATIVES

\* - Reference meeting held at 1200 on 22 May 2003 in Mr. Clay Sanders office on the subject project study. The subject of the meeting concerned the appropriate costs to be used in the Engineering Appendix and for NED analysis. Mr. Richard Bonner/DP reviewed new cost scenarios to be considered in the revised cost. At the conclusion of the meeting the acting Chief, EN and the Chief, DP agreed to use these new cost scenarios in the revised cost estimates. Following the meeting EN-C documented the items agreed to in the attached memorandum for record to be included with the revised cost estimate in the final report.

\*\* - Reference subsequent meeting held in CESAJ-PD on 23 May 2003 to review the cost and benefits analysis. During this meeting it was decided to use 2 percent contingency for Plan Alternatives A-4, A-6, and A-7 verses the previous 5 percent since there is a higher level of confidence in the cost since they are based on actual contract prices. The contingency used for Plan Alternative A-3 was kept at 15 percent since this alternative will be accomplished via a new procurement action.

\*\*\* - Reference meeting on 28 May 2003 to review final Plan Alternative cost estimate. During this meeting it was determined that the contingency used on Alternative A-3 for the Upland Disposal Area dike construction should be reduced from 15 percent to 2 percent since the construction will already be completed under the current contract at Manatee Harbor.

DESCRIPTION OF THE TURNING BASIN PLAN ALTERNATIVES AS PER THE INFORMATION PROVIDED BY CESAJ-EN-DL/R. HENDERSON TO THIS OFFICE ON 13 MAY 2003.

| ALTERNATIVE             | -41' DEPTH<br>CYDS | 1' OVERDEPTH<br>CYDS | TOTAL DREDGING<br>CYDS | DREDGING AREA<br>SF |
|-------------------------|--------------------|----------------------|------------------------|---------------------|
| A-3<br>(900' SO. EDGE)  | 557,443            | 7,508                | 564,951                | 450,000             |
| A-4<br>(900' X 1300')   | 1,230,270          | 40,055               | 1,270,325              | 915,000             |
| A-6<br>(1200' SO. EDGE) | 1,302,073          | 42,393               | 1,344,467              | 980,000             |
| A-7<br>(900' X 1200')   | 1,041,551          | 34,355               | 1,075,906              | 810,000             |

The Entrance Channel Widener is the same design included in the current construction contract for Manatee Harbor.

The construction of the Port upland disposal area is the same design included in the current construction contract for Manatee Harbor.

Estimate Assumptions:

1. The dredging cost were computed using the Cost Engineering Dredge Estimating Program (CEDEP) in accordance with ER 1110-2-1302.

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\* - The dredging cost used in the revised estimate were based on the current contract prices for Contract No. DACW17-02-C-0037. The use of these cost was considered valid and more accurate as actual historical cost for performing the work.

2. The dredging and disposal will be accomplished using a 30-inch cutter suction pipeline dredge with boosters. The dredge will be capable of dredging all types of materials including compacted-consolidated sediments and rock.

\* - The dredge/dredges to be used are the ones being used by the contractor on Contract No. DACW17-02-C-0037. As of this date dredging has not begun on the contract.

3. Dredge disposal will be into the existing upland disposal site located at Port Manatee and indicated in the current maintenance and construction dredging contract on Manatee Harbor (DACW17-02-C-0037) Plans and Specifications (P&S). The dikes for the existing upland site are being raised to 55 feet as part of the current contract.

4. The dredging quantities and areas used in CEDEP to compute the dredging cost were based on the above design information provided by CESAJ-EN-DL. The character of materials used in CEDEP were based on the coreborings contained in the current construction contract P&S.

5. The dredge performance (EWT%) and production (Gross cy/hr) used in CEDEP was based on a prior contract that utilized similar dredging equipment working similar project conditions as the subject project.

6. Turbidity monitoring is included under the Associated General Items cost category based on the dredging times computed in CEDEP for each plan alternative.

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PROJECT NOTES

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Estimate Parameters:

1. Assumed 16.5 percent combined field and home-office overhead.

\* - The actual contractor markups are included in the contract prices used in the revised estimate.

2. Assumed 10.0 percent profit.

\* - The actual contractor profit is included in the contract prices used in the revised estimate.

3. Assumed 1.0 percent contractor bonds.

\* - The actual contractor bonds are included in the contract prices used in the revised estimate.

4. Applied 15.0 percent contingency appropriate for the level of project development and design.

\* - Used the contingency percentages agreed to during the reference meeting between EN and DP as follows.

Plan Alternative A-3 used 15 percent contingency.

\*\*\* - Revised contingency used for Plan A-3, Upland Disposal Area dike construction from the previous 15 percent to 2 percent since this construction will have already been accomplished under the current contract.

Plan Alternatives A-4, A-6, and A-7 used 5 percent contingency.

\*\* - Revised contingency used for Plans A-4, A-6, and A-7 from previous 5 percent to 2 percent as per agreement between Chiefs, CESAJ-EN and CESAJ-PD.

5. Estimate costs are in current dollars based on effective pricing as of 1 October 2002. No escalation has been applied. The Federal interest rate used in the estimate is 5-7/8 (5.875) percent.

\* - The estimate costs are now based on the contract prices for Contract No. DACW17-02-C-0037.

6. Non-construction cost including PED, S&A, and Lands/Damages costs were taken from the EDR. Sea Grass mitigation costs were provided by CESAJ-PD-PN.

\* - Revised PED is based on actual PED cost for the current contract as indicated by DP.

\* - Used the same percentage for S&A, Lands/Damages and Sea Grass mitigation as used in the previous estimate as agreed to during the referenced meeting between EN and DP.

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PROJECT NOTES

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Estimated Construction Times (in consecutive calendar days):

\* - Revised based on actual contract times for Contract No. DACW17-02-C-0037 for Plan Alternative A-4 which is the same design contained in the contract.

DREDGING:

Plan A-3: 30 days mob/demob + 35 days T. Basin + 88 days Wid. = 235 days total  
Plan A-4: 30 days mob/demob + 78 days T. Basin + 88 days Wid. = 302 days total  
Plan A-6: 30 days mob/demob + 83 days T. Basin + 88 days Wid. = 310 days total  
Plan A-7: 30 days mob/demob + 66 days T. Basin + 88 days Wid. = 283 days total

DISPOSAL AREA:

All Plans: = 267 days total

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SUMMARY P. 1

\*\* PROJECT OWNER SUMMARY - Plan \*\*

|    | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COST |
|----|----------|-----|------------|----------|-----------|------------|-----------|
| A3 |          |     | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
| A4 |          |     | 27,668,570 | 0        | 534,486   | 28,203,056 |           |
| A6 |          |     | 28,206,485 | 0        | 543,933   | 28,750,418 |           |
| A7 |          |     | 27,192,998 | 0        | 527,042   | 27,720,040 |           |

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SUMMARY PAGE 2

\*\* PROJECT OWNER SUMMARY - Category \*\*

|                                     | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COST |
|-------------------------------------|----------|-----|------------|----------|-----------|------------|-----------|
| -----                               |          |     |            |          |           |            |           |
| A3 PLAN ALTERNATIVE A-3 (CONST.)    |          |     |            |          |           |            |           |
| A3. A Construction Cost             |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| A3. B Non-Construction Cost         |          |     | 3,343,196  | 0        | 432,002   | 3,775,198  |           |
|                                     |          |     | -----      |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-3 (CONST.) |          |     | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
|                                     |          |     |            |          |           |            |           |
| A4 PLAN ALTERNATIVE A-4 (CONST.)    |          |     |            |          |           |            |           |
| A4. A Construction Cost             |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| A4. B Non-Construction Cost         |          |     | 3,904,270  | 0        | 59,200    | 3,963,470  |           |
|                                     |          |     | -----      |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-4 (CONST.) |          |     | 27,668,570 | 0        | 534,486   | 28,203,056 |           |
|                                     |          |     |            |          |           |            |           |
| A6 PLAN ALTERNATIVE A-6 (CONST.)    |          |     |            |          |           |            |           |
| A6. A Construction Cost             |          |     | 24,176,630 | 0        | 483,533   | 24,660,163 |           |
| A6. B Non-Construction Cost         |          |     | 4,029,855  | 0        | 60,400    | 4,090,255  |           |
|                                     |          |     | -----      |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-6 (CONST.) |          |     | 28,206,485 | 0        | 543,933   | 28,750,418 |           |
|                                     |          |     |            |          |           |            |           |
| A7 PLAN ALTERNATIVE A-7 (CONST.)    |          |     |            |          |           |            |           |
| A7. A Construction Cost             |          |     | 23,392,112 | 0        | 467,842   | 23,859,954 |           |
| A7. B Non-Construction Cost         |          |     | 3,800,886  | 0        | 59,200    | 3,860,086  |           |
|                                     |          |     | -----      |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-7 (CONST.) |          |     | 27,192,998 | 0        | 527,042   | 27,720,040 |           |

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SUMMARY

\*\* PROJECT OWNER SUMMARY - Feature \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COS  |
|---|--------------|------------|----------|-----------|------------|-----------|
| -----                                   |              |            |          |           |            |           |
| A3 PLAN ALTERNATIVE A-3 (CONST.)        |              |            |          |           |            |           |
| A3. A Construction Cost                 |              |            |          |           |            |           |
| A3. A.12 Navigation Ports and Harbors   |              | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----                                   |              |            |          |           |            |           |
| TOTAL Construction Cost                 |              | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----                                   |              |            |          |           |            |           |
| A3. B Non-Construction Cost             |              |            |          |           |            |           |
| A3. B.01 Lands and Damages              |              | 0          | 0        | 0         | 0          |           |
| A3. B.30 Planning, Engineering & Design |              | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
| A3. B.31 Construction Management (S&I)  |              | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
| A3. B.99 Seagrass Mitigation by Others  | 2.33 AC      | 463,181    | 0        | 0         | 463,181    | 198790.00 |
| -----                                   |              |            |          |           |            |           |
| TOTAL Non-Construction Cost             |              | 3,343,196  | 0        | 432,002   | 3,775,198  |           |
| -----                                   |              |            |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-3 (CONST.)     |              | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
| -----                                   |              |            |          |           |            |           |
| A4 PLAN ALTERNATIVE A-4 (CONST.)        |              |            |          |           |            |           |
| A4. A Construction Cost                 |              |            |          |           |            |           |
| A4. A.12 Navigation Ports and Harbors   |              | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| -----                                   |              |            |          |           |            |           |
| TOTAL Construction Cost                 |              | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| -----                                   |              |            |          |           |            |           |
| A4. B Non-Construction Cost             |              |            |          |           |            |           |
| A4. B.01 Lands and Damages              |              | 0          | 0        | 0         | 0          |           |
| A4. B.30 Planning, Engineering & Design |              | 1,180,015  | 0        | 23,600    | 1,203,615  |           |
| A4. B.31 Construction Management (S&I)  |              | 1,780,002  | 0        | 35,600    | 1,815,602  |           |
| A4. B.99 Seagrass Mitigation by Others  | 4.75 AC      | 944,253    | 0        | 0         | 944,253    | 198790.00 |
| -----                                   |              |            |          |           |            |           |
| TOTAL Non-Construction Cost             |              | 3,904,270  | 0        | 59,200    | 3,963,470  |           |
| -----                                   |              |            |          |           |            |           |
| TOTAL PLAN ALTERNATIVE A-4 (CONST.)     |              | 27,668,570 | 0        | 534,486   | 28,203,056 |           |
| -----                                   |              |            |          |           |            |           |
| A6 PLAN ALTERNATIVE A-6 (CONST.)        |              |            |          |           |            |           |
| A6. A Construction Cost                 |              |            |          |           |            |           |
| A6. A.12 Navigation Ports and Harbors   |              | 24,176,630 | 0        | 483,533   | 24,660,163 |           |
| -----                                   |              |            |          |           |            |           |
| TOTAL Construction Cost                 |              | 24,176,630 | 0        | 483,533   | 24,660,163 |           |

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SUMMARY PAGE 4

\*\* PROJECT OWNER SUMMARY - Feature \*\*

|                                     | QUANTITY UOM                   | CONTRACT          | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|-------------------------------------|--------------------------------|-------------------|----------|----------|------------|-----------|
| -----                               |                                |                   |          |          |            |           |
| A6. B Non-Construction Cost         |                                |                   |          |          |            |           |
| A6. B.01                            | Lands and Damages              | 0                 | 0        | 0        | 0          |           |
| A6. B.30                            | Planning, Engineering & Design | 1,210,000         | 0        | 24,200   | 1,234,200  |           |
| A6. B.31                            | Construction Management (S&I)  | 1,810,002         | 0        | 36,200   | 1,846,202  |           |
| A6. B.99                            | Seagrass Mitigation by Others  | 5.08 AC 1,009,853 | 0        | 0        | 1,009,853  | 198790.00 |
| TOTAL Non-Construction Cost         |                                | 4,029,855         | 0        | 60,400   | 4,090,255  |           |
| TOTAL PLAN ALTERNATIVE A-6 (CONST.) |                                | 28,206,485        | 0        | 543,933  | 28,750,418 |           |
| -----                               |                                |                   |          |          |            |           |
| A7 PLAN ALTERNATIVE A-7 (CONST.)    |                                |                   |          |          |            |           |
| A7. A Construction Cost             |                                |                   |          |          |            |           |
| A7. A.12                            | Navigation Ports and Harbors   | 23,392,112        | 0        | 467,842  | 23,859,954 |           |
| TOTAL Construction Cost             |                                | 23,392,112        | 0        | 467,842  | 23,859,954 |           |
| -----                               |                                |                   |          |          |            |           |
| A7. B Non-Construction Cost         |                                |                   |          |          |            |           |
| A7. B.01                            | Lands and Damages              | 0                 | 0        | 0        | 0          |           |
| A7. B.30                            | Planning, Engineering & Design | 1,210,002         | 0        | 24,200   | 1,234,202  |           |
| A7. B.31                            | Construction Management (S&I)  | 1,750,002         | 0        | 35,000   | 1,785,002  |           |
| A7. B.99                            | Seagrass Mitigation by Others  | 4.23 AC 840,882   | 0        | 0        | 840,882    | 198790.00 |
| TOTAL Non-Construction Cost         |                                | 3,800,886         | 0        | 59,200   | 3,860,086  |           |
| TOTAL PLAN ALTERNATIVE A-7 (CONST.) |                                | 27,192,998        | 0        | 527,042  | 27,720,040 |           |
| -----                               |                                |                   |          |          |            |           |

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SUMMARY

\*\* PROJECT OWNER SUMMARY - SubFeat \*\*

|  | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT CO   |
|--|----------|-----|------------|----------|-----------|------------|-----------|
| -----                                      |          |     |            |          |           |            |           |
| A3 PLAN ALTERNATIVE A-3 (CONST.)           |          |     |            |          |           |            |           |
| A3. A Construction Cost                    |          |     |            |          |           |            |           |
| A3. A.12 Navigation Ports and Harbors      |          |     |            |          |           |            |           |
| A3. A.12.02 Harbors                        |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| TOTAL Navigation Ports and Harbors         |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| TOTAL Construction Cost                    |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----                                      |          |     |            |          |           |            |           |
| A3. B Non-Construction Cost                |          |     |            |          |           |            |           |
| A3. B.01 Lands and Damages                 |          |     | 0          | 0        | 0         | 0          |           |
| TOTAL Lands and Damages                    |          |     | 0          | 0        | 0         | 0          |           |
| -----                                      |          |     |            |          |           |            |           |
| A3. B.30 Planning, Engineering & Design    |          |     |            |          |           |            |           |
| A3. B.30. 1 Planning, Engineering & Design |          |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
| TOTAL Planning, Engineering & Design       |          |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
| -----                                      |          |     |            |          |           |            |           |
| A3. B.31 Construction Management (S&I)     |          |     |            |          |           |            |           |
| A3. B.31. 1 Construction Management (S&I)  |          |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
| TOTAL Construction Management (S&I)        |          |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
| -----                                      |          |     |            |          |           |            |           |
| A3. B.99 Seagrass Mitigation by Others     | 2.33     | AC  | 463,181    | 0        | 0         | 463,181    | 198790.00 |
| TOTAL Non-Construction Cost                |          |     | 3,343,196  | 0        | 432,002   | 3,775,198  |           |
| TOTAL PLAN ALTERNATIVE A-3 (CONST.)        |          |     | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
| -----                                      |          |     |            |          |           |            |           |
| A4 PLAN ALTERNATIVE A-4 (CONST.)           |          |     |            |          |           |            |           |
| A4. A Construction Cost                    |          |     |            |          |           |            |           |
| A4. A.12 Navigation Ports and Harbors      |          |     |            |          |           |            |           |
| A4. A.12.02 Harbors                        |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| TOTAL Navigation Ports and Harbors         |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| -----                                      |          |     |            |          |           |            |           |

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\*\* PROJECT OWNER SUMMARY - SubFeat \*\*

|  | QUANTITY | UOM | CONTRACT | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|--|----------|-----|----------|----------|----------|------------|-----------|
|--|----------|-----|----------|----------|----------|------------|-----------|

|                         |  |  |            |   |         |            |  |
|-------------------------|--|--|------------|---|---------|------------|--|
| TOTAL Construction Cost |  |  | 23,764,300 | 0 | 475,286 | 24,239,586 |  |
|-------------------------|--|--|------------|---|---------|------------|--|

A4. B Non-Construction Cost

A4. B.01 Lands and Damages

|  |   |  |   |  |   |   |  |
|--|---|--|---|--|---|---|--|
|  | 0 |  | 0 |  | 0 | 0 |  |
|--|---|--|---|--|---|---|--|

TOTAL Lands and Damages

|  |   |  |   |  |   |   |  |
|--|---|--|---|--|---|---|--|
|  | 0 |  | 0 |  | 0 | 0 |  |
|--|---|--|---|--|---|---|--|

A4. B.30 Planning, Engineering & Design

A4. B.30. 1 Planning, Engineering & Design

|  |           |  |   |  |        |           |  |
|--|-----------|--|---|--|--------|-----------|--|
|  | 1,180,015 |  | 0 |  | 23,600 | 1,203,615 |  |
|--|-----------|--|---|--|--------|-----------|--|

TOTAL Planning, Engineering & Design

|  |           |  |   |  |        |           |  |
|--|-----------|--|---|--|--------|-----------|--|
|  | 1,180,015 |  | 0 |  | 23,600 | 1,203,615 |  |
|--|-----------|--|---|--|--------|-----------|--|

A4. B.31 Construction Management (S&I)

A4. B.31. 1 Construction Management (S&I)

|  |           |  |   |  |        |           |  |
|--|-----------|--|---|--|--------|-----------|--|
|  | 1,780,002 |  | 0 |  | 35,600 | 1,815,602 |  |
|--|-----------|--|---|--|--------|-----------|--|

TOTAL Construction Management (S&I)

|  |           |  |   |  |        |           |  |
|--|-----------|--|---|--|--------|-----------|--|
|  | 1,780,002 |  | 0 |  | 35,600 | 1,815,602 |  |
|--|-----------|--|---|--|--------|-----------|--|

A4. B.99 Seagrass Mitigation by Others

|         |         |  |   |  |   |         |           |
|---------|---------|--|---|--|---|---------|-----------|
| 4.75 AC | 944,253 |  | 0 |  | 0 | 944,253 | 198790.00 |
|---------|---------|--|---|--|---|---------|-----------|

TOTAL Non-Construction Cost

|  |           |  |   |  |        |           |  |
|--|-----------|--|---|--|--------|-----------|--|
|  | 3,904,270 |  | 0 |  | 59,200 | 3,963,470 |  |
|--|-----------|--|---|--|--------|-----------|--|

TOTAL PLAN ALTERNATIVE A-4 (CONST.)

|  |            |  |   |  |         |            |  |
|--|------------|--|---|--|---------|------------|--|
|  | 27,668,570 |  | 0 |  | 534,486 | 28,203,056 |  |
|--|------------|--|---|--|---------|------------|--|

A6 PLAN ALTERNATIVE A-6 (CONST.)

A6. A Construction Cost

A6. A.12 Navigation Ports and Harbors

A6. A.12.02 Harbors

|  |            |  |   |  |         |            |  |
|--|------------|--|---|--|---------|------------|--|
|  | 24,176,630 |  | 0 |  | 483,533 | 24,660,163 |  |
|--|------------|--|---|--|---------|------------|--|

TOTAL Navigation Ports and Harbors

|  |            |  |   |  |         |            |  |
|--|------------|--|---|--|---------|------------|--|
|  | 24,176,630 |  | 0 |  | 483,533 | 24,660,163 |  |
|--|------------|--|---|--|---------|------------|--|

TOTAL Construction Cost

|  |            |  |   |  |         |            |  |
|--|------------|--|---|--|---------|------------|--|
|  | 24,176,630 |  | 0 |  | 483,533 | 24,660,163 |  |
|--|------------|--|---|--|---------|------------|--|

A6. B Non-Construction Cost

A6. B.01 Lands and Damages

|  |   |  |   |  |   |   |  |
|--|---|--|---|--|---|---|--|
|  | 0 |  | 0 |  | 0 | 0 |  |
|--|---|--|---|--|---|---|--|

TOTAL Lands and Damages

|  |   |  |   |  |   |   |  |
|--|---|--|---|--|---|---|--|
|  | 0 |  | 0 |  | 0 | 0 |  |
|--|---|--|---|--|---|---|--|

A6. B.30 Planning, Engineering & Design

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SUMMARY

\*\* PROJECT OWNER SUMMARY - SubFeat \*\*

|  | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COS  |
|--|--------------|------------|----------|----------|------------|-----------|
| A6. B.30. 1 Planning, Engineering & Design |              | 1,210,000  | 0        | 24,200   | 1,234,200  |           |
| TOTAL Planning, Engineering & Design       |              | 1,210,000  | 0        | 24,200   | 1,234,200  |           |
| A6. B.31 Construction Management (S&I)     |              |            |          |          |            |           |
| A6. B.31. 1 Construction Management (S&I)  |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| TOTAL Construction Management (S&I)        |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| A6. B.99 Seagrass Mitigation by Others     | 5.08 AC      | 1,009,853  | 0        | 0        | 1,009,853  | 198790.00 |
| TOTAL Non-Construction Cost                |              | 4,029,855  | 0        | 60,400   | 4,090,255  |           |
| TOTAL PLAN ALTERNATIVE A-6 (CONST.)        |              | 28,206,485 | 0        | 543,933  | 28,750,418 |           |
| A7 PLAN ALTERNATIVE A-7 (CONST.)           |              |            |          |          |            |           |
| A7. A Construction Cost                    |              |            |          |          |            |           |
| A7. A.12 Navigation Ports and Harbors      |              |            |          |          |            |           |
| A7. A.12.02 Harbors                        |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| TOTAL Navigation Ports and Harbors         |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| TOTAL Construction Cost                    |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| A7. B Non-Construction Cost                |              |            |          |          |            |           |
| A7. B.01 Lands and Damages                 |              | 0          | 0        | 0        | 0          |           |
| TOTAL Lands and Damages                    |              | 0          | 0        | 0        | 0          |           |
| A7. B.30 Planning, Engineering & Design    |              |            |          |          |            |           |
| A7. B.30. 1 Planning, Engineering & Design |              | 1,210,002  | 0        | 24,200   | 1,234,202  |           |
| TOTAL Planning, Engineering & Design       |              | 1,210,002  | 0        | 24,200   | 1,234,202  |           |
| A7. B.31 Construction Management (S&I)     |              |            |          |          |            |           |
| A7. B.31. 1 Construction Management (S&I)  |              | 1,750,002  | 0        | 35,000   | 1,785,002  |           |
| TOTAL Construction Management (S&I)        |              | 1,750,002  | 0        | 35,000   | 1,785,002  |           |

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SUMMARY PAGE 8

\*\* PROJECT OWNER SUMMARY - SubFeat \*\*

|  | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|--|----------|-----|------------|----------|----------|------------|-----------|
| A7. B.99 Seagrass Mitigation by Others | 4.23     | AC  | 840,882    | 0        | 0        | 840,882    | 198790.00 |
| TOTAL Non-Construction Cost            |          |     | 3,800,886  | 0        | 59,200   | 3,860,086  |           |
| TOTAL PLAN ALTERNATIVE A-7 (CONST.)    |          |     | 27,192,998 | 0        | 527,042  | 27,720,040 |           |

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SUMMARY

\*\* PROJECT OWNER SUMMARY - Element \*\*

|   | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COS  |
|---|----------|-----|------------|----------|-----------|------------|-----------|
| -----   |          |     |            |          |           |            |           |
| A3 PLAN ALTERNATIVE A-3 (CONST.)              |          |     |            |          |           |            |           |
| A3. A Construction Cost                       |          |     |            |          |           |            |           |
| A3. A.12 Navigation Ports and Harbors         |          |     |            |          |           |            |           |
| A3. A.12.02 Harbors                           |          |     |            |          |           |            |           |
| A3. A.12.02.01 Mobil, Demobil & Prep Work     |          |     | 1,000,000  | 0        | 150,000   | 1,150,000  |           |
| A3. A.12.02.16 Pipeline Dredging              |          |     | 11,873,706 | 0        | 1,781,056 | 13,654,762 |           |
| A3. A.12.02.20 Disposal Areas                 |          |     | 9,700,000  | 0        | 194,000   | 9,894,000  |           |
| A3. A.12.02.99 Associated General Items       |          |     | 100,000    | 0        | 15,000    | 115,000    |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Harbors                                 |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Navigation Ports and Harbors            |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Construction Cost                       |          |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
|   |          |     | -----      |          |           |            |           |
| A3. B Non-Construction Cost                   |          |     |            |          |           |            |           |
| A3. B.01 Lands and Damages                    |          |     | 0          | 0        | 0         | 0          |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Lands and Damages                       |          |     | 0          | 0        | 0         | 0          |           |
|   |          |     | -----      |          |           |            |           |
| A3. B.30 Planning, Engineering & Design       |          |     |            |          |           |            |           |
| A3. B.30. 1 Planning, Engineering & Design    |          |     |            |          |           |            |           |
| A3. B.30. 1. 1 Planning, Engineering & Design |          |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Planning, Engineering & Design          |          |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Planning, Engineering & Design          |          |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
|   |          |     | -----      |          |           |            |           |
| A3. B.31 Construction Management (S&I)        |          |     |            |          |           |            |           |
| A3. B.31. 1 Construction Management (S&I)     |          |     |            |          |           |            |           |
| A3. B.31. 1. 1 Construction Management (S&I)  |          |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Construction Management (S&I)           |          |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
|   |          |     | -----      |          |           |            |           |
| TOTAL Construction Management (S&I)           |          |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
|   |          |     | -----      |          |           |            |           |
| A3. B.99 Seagrass Mitigation by Others        | 2.33     | AC  | 463,181    | 0        | 0         | 463,181    | 198790.00 |
|   |          |     | -----      |          |           |            |           |

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\*\* PROJECT OWNER SUMMARY - Element \*\*

|   | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COST |
|---|----------|-----|------------|----------|-----------|------------|-----------|
| TOTAL Non-Construction Cost                   |          |     | 3,343,196  | 0        | 432,002   | 3,775,198  |           |
| TOTAL PLAN ALTERNATIVE A-3 (CONST.)           |          |     | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
| A4 PLAN ALTERNATIVE A-4 (CONST.)              |          |     |            |          |           |            |           |
| A4. A Construction Cost                       |          |     |            |          |           |            |           |
| A4. A.12 Navigation Ports and Harbors         |          |     |            |          |           |            |           |
| A4. A.12.02 Harbors                           |          |     |            |          |           |            |           |
| A4. A.12.02.01 Mobil, Demobil & Prep Work     |          |     | 690,000    | 0        | 13,800    | 703,800    |           |
| A4. A.12.02.16 Pipeline Dredging              |          |     | 13,274,300 | 0        | 265,486   | 13,539,786 |           |
| A4. A.12.02.20 Disposal Areas                 |          |     | 9,700,000  | 0        | 194,000   | 9,894,000  |           |
| A4. A.12.02.99 Associated General Items       |          |     | 100,000    | 0        | 2,000     | 102,000    |           |
| TOTAL Harbors                                 |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| TOTAL Navigation Ports and Harbors            |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| TOTAL Construction Cost                       |          |     | 23,764,300 | 0        | 475,286   | 24,239,586 |           |
| A4. B Non-Construction Cost                   |          |     |            |          |           |            |           |
| A4. B.01 Lands and Damages                    |          |     |            |          |           |            |           |
| TOTAL Lands and Damages                       |          |     | 0          | 0        | 0         | 0          |           |
| A4. B.30 Planning, Engineering & Design       |          |     |            |          |           |            |           |
| A4. B.30. 1 Planning, Engineering & Design    |          |     |            |          |           |            |           |
| A4. B.30. 1. 1 Planning, Engineering & Design |          |     |            |          |           |            |           |
| TOTAL Planning, Engineering & Design          |          |     | 1,180,015  | 0        | 23,600    | 1,203,615  |           |
| TOTAL Planning, Engineering & Design          |          |     | 1,180,015  | 0        | 23,600    | 1,203,615  |           |
| TOTAL Planning, Engineering & Design          |          |     | 1,180,015  | 0        | 23,600    | 1,203,615  |           |
| A4. B.31 Construction Management (S&I)        |          |     |            |          |           |            |           |
| A4. B.31. 1 Construction Management (S&I)     |          |     |            |          |           |            |           |
| A4. B.31. 1. 1 Construction Management (S&I)  |          |     |            |          |           |            |           |
| TOTAL Construction Management (S&I)           |          |     | 1,780,002  | 0        | 35,600    | 1,815,602  |           |
| TOTAL Construction Management (S&I)           |          |     | 1,780,002  | 0        | 35,600    | 1,815,602  |           |

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SUMMARY 1

\*\* PROJECT OWNER SUMMARY - Element \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COS |
|---|--------------|------------|----------|----------|------------|----------|
| TOTAL Construction Management (S&I)           |              | 1,780,002  | 0        | 35,600   | 1,815,602  |          |
| A4. B.99 Seagrass Mitigation by Others        | 4.75 AC      | 944,253    | 0        | 0        | 944,253    | 198790.0 |
| TOTAL Non-Construction Cost                   |              | 3,904,270  | 0        | 59,200   | 3,963,470  |          |
| TOTAL PLAN ALTERNATIVE A-4 (CONST.)           |              | 27,668,570 | 0        | 534,486  | 28,203,056 |          |
| A6 PLAN ALTERNATIVE A-6 (CONST.)              |              |            |          |          |            |          |
| A6. A Construction Cost                       |              |            |          |          |            |          |
| A6. A.12 Navigation Ports and Harbors         |              |            |          |          |            |          |
| A6. A.12.02 Harbors                           |              |            |          |          |            |          |
| A6. A.12.02.01 Mobil, Demobil & Prep Work     |              | 690,000    | 0        | 13,800   | 703,800    |          |
| A6. A.12.02.16 Pipeline Dredging              |              | 13,686,630 | 0        | 273,733  | 13,960,363 |          |
| A6. A.12.02.20 Disposal Areas                 |              | 9,700,000  | 0        | 194,000  | 9,894,000  |          |
| A6. A.12.02.99 Associated General Items       |              | 100,000    | 0        | 2,000    | 102,000    |          |
| TOTAL Harbors                                 |              | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| TOTAL Navigation Ports and Harbors            |              | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| TOTAL Construction Cost                       |              | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| A6. B Non-Construction Cost                   |              |            |          |          |            |          |
| A6. B.01 Lands and Damages                    |              | 0          | 0        | 0        | 0          |          |
| TOTAL Lands and Damages                       |              | 0          | 0        | 0        | 0          |          |
| A6. B.30 Planning, Engineering & Design       |              |            |          |          |            |          |
| A6. B.30. 1 Planning, Engineering & Design    |              |            |          |          |            |          |
| A6. B.30. 1. 1 Planning, Engineering & Design |              | 1,210,000  | 0        | 24,200   | 1,234,200  |          |
| TOTAL Planning, Engineering & Design          |              | 1,210,000  | 0        | 24,200   | 1,234,200  |          |
| TOTAL Planning, Engineering & Design          |              | 1,210,000  | 0        | 24,200   | 1,234,200  |          |
| A6. B.31 Construction Management (S&I)        |              |            |          |          |            |          |
| A6. B.31. 1 Construction Management (S&I)     |              |            |          |          |            |          |

\*\* PROJECT OWNER SUMMARY - Element \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|---|--------------|------------|----------|----------|------------|-----------|
| A6. B.31. 1. 1 Construction Management (S&I)  |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| TOTAL Construction Management (S&I)           |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| TOTAL Construction Management (S&I)           |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| A6. B.99 Seagrass Mitigation by Others        | 5.08 AC      | 1,009,853  | 0        | 0        | 1,009,853  | 198790.00 |
| TOTAL Non-Construction Cost                   |              | 4,029,855  | 0        | 60,400   | 4,090,255  |           |
| TOTAL PLAN ALTERNATIVE A-6 (CONST.)           |              | 28,206,485 | 0        | 543,933  | 28,750,418 |           |
| A7 PLAN ALTERNATIVE A-7 (CONST.)              |              |            |          |          |            |           |
| A7. A Construction Cost                       |              |            |          |          |            |           |
| A7. A.12 Navigation Ports and Harbors         |              |            |          |          |            |           |
| A7. A.12.02 Harbors                           |              |            |          |          |            |           |
| A7. A.12.02.01 Mobil, Demobil & Prep Work     |              | 690,000    | 0        | 13,800   | 703,800    |           |
| A7. A.12.02.16 Pipeline Dredging              |              | 12,902,112 | 0        | 258,042  | 13,160,154 |           |
| A7. A.12.02.20 Disposal Areas                 |              | 9,700,000  | 0        | 194,000  | 9,894,000  |           |
| A7. A.12.02.99 Associated General Items       |              | 100,000    | 0        | 2,000    | 102,000    |           |
| TOTAL Harbors                                 |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| TOTAL Navigation Ports and Harbors            |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| TOTAL Construction Cost                       |              | 23,392,112 | 0        | 467,842  | 23,859,954 |           |
| A7. B Non-Construction Cost                   |              |            |          |          |            |           |
| A7. B.01 Lands and Damages                    |              |            |          |          |            |           |
| TOTAL Lands and Damages                       |              | 0          | 0        | 0        | 0          |           |
| A7. B.30 Planning, Engineering & Design       |              |            |          |          |            |           |
| A7. B.30. 1 Planning, Engineering & Design    |              |            |          |          |            |           |
| A7. B.30. 1. 1 Planning, Engineering & Design |              | 1,210,002  | 0        | 24,200   | 1,234,202  |           |
| TOTAL Planning, Engineering & Design          |              | 1,210,002  | 0        | 24,200   | 1,234,202  |           |
| TOTAL Planning, Engineering & Design          |              | 1,210,002  | 0        | 24,200   | 1,234,202  |           |

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SUMMARY PAGE

\*\* PROJECT OWNER SUMMARY - Element \*\*

|                | QUANTITY UOM                        | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT CO: |
|----------------|-------------------------------------|------------|----------|----------|------------|----------|
| -----          |                                     |            |          |          |            |          |
| A7. B.31       | Construction Management (S&I)       |            |          |          |            |          |
| A7. B.31. 1    | Construction Management (S&I)       |            |          |          |            |          |
| A7. B.31. 1. 1 |                                     | 1,750,002  | 0        | 35,000   | 1,785,002  |          |
|                |                                     | -----      |          |          |            |          |
|                | TOTAL Construction Management (S&I) | 1,750,002  | 0        | 35,000   | 1,785,002  |          |
|                |                                     | -----      |          |          |            |          |
|                | TOTAL Construction Management (S&I) | 1,750,002  | 0        | 35,000   | 1,785,002  |          |
| A7. B.99       | 4.23 AC                             | 840,882    | 0        | 0        | 840,882    | 198790.0 |
|                |                                     | -----      |          |          |            |          |
|                | TOTAL Non-Construction Cost         | 3,800,886  | 0        | 59,200   | 3,860,086  |          |
|                |                                     | -----      |          |          |            |          |
|                | TOTAL PLAN ALTERNATIVE A-7 (CONST.) | 27,192,998 | 0        | 527,042  | 27,720,040 |          |

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|   | QUANTITY  | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COST |
|---|-----------|-----|------------|----------|-----------|------------|-----------|
| -----   |           |     |            |          |           |            |           |
| A3 PLAN ALTERNATIVE A-3 (CONST.)                  |           |     |            |          |           |            |           |
| A3. A Construction Cost                           |           |     |            |          |           |            |           |
| A3. A.12 Navigation Ports and Harbors             |           |     |            |          |           |            |           |
| A3. A.12.02 Harbors                               |           |     |            |          |           |            |           |
| A3. A.12.02.01 Mobil, Demobil & Prep Work         |           |     |            |          |           |            |           |
| A3. A.12.02.01.01 Turning Basin & E.C. Wideners   |           |     | 1,000,000  | 0        | 150,000   | 1,150,000  |           |
| TOTAL Mobil, Demobil & Prep Work                  |           |     | 1,000,000  | 0        | 150,000   | 1,150,000  |           |
| -----   |           |     |            |          |           |            |           |
| A3. A.12.02.16 Pipeline Dredging                  |           |     |            |          |           |            |           |
| A3. A.12.02.16.01 Turning Basin (900' X 1300')    | 564951.00 | CY  | 3,389,706  | 0        | 508,456   | 3,898,162  | 6.90      |
| A3. A.12.02.16.02 Entrance Channel Wideners       | 1414000   | CY  | 8,484,000  | 0        | 1,272,600 | 9,756,600  | 6.90      |
| TOTAL Pipeline Dredging                           |           |     | 11,873,706 | 0        | 1,781,056 | 13,654,762 |           |
| -----   |           |     |            |          |           |            |           |
| A3. A.12.02.20 Disposal Areas                     |           |     |            |          |           |            |           |
| A3. A.12.02.20.01 Mob/Demob for Dike Construction |           |     | 1,050,000  | 0        | 21,000    | 1,071,000  |           |
| A3. A.12.02.20.02 Raise Port Upland D/A Dikes 55' |           |     | 8,650,000  | 0        | 173,000   | 8,823,000  |           |
| TOTAL Disposal Areas                              |           |     | 9,700,000  | 0        | 194,000   | 9,894,000  |           |
| -----   |           |     |            |          |           |            |           |
| A3. A.12.02.99 Associated General Items           |           |     |            |          |           |            |           |
| A3. A.12.02.99.01 Turbidity Monitoring            |           |     | 100,000    | 0        | 15,000    | 115,000    |           |
| TOTAL Associated General Items                    |           |     | 100,000    | 0        | 15,000    | 115,000    |           |
| -----   |           |     |            |          |           |            |           |
| TOTAL Harbors                                     |           |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----   |           |     |            |          |           |            |           |
| TOTAL Navigation Ports and Harbors                |           |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----   |           |     |            |          |           |            |           |
| TOTAL Construction Cost                           |           |     | 22,673,706 | 0        | 2,140,056 | 24,813,762 |           |
| -----   |           |     |            |          |           |            |           |
| A3. B Non-Construction Cost                       |           |     |            |          |           |            |           |
| A3. B.01 Lands and Damages                        |           |     | 0          | 0        | 0         | 0          |           |
| TOTAL Lands and Damages                           |           |     | 0          | 0        | 0         | 0          |           |

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|                   | QUANTITY                             | UOM | CONTRACT   | ESCALATN | CONTINGN  | TOTAL COST | UNIT COS  |
|-------------------|--------------------------------------|-----|------------|----------|-----------|------------|-----------|
| -----             |                                      |     |            |          |           |            |           |
| A3. B.30          | Planning, Engineering & Design       |     |            |          |           |            |           |
| A3. B.30. 1       | Planning, Engineering & Design       |     |            |          |           |            |           |
| A3. B.30. 1. 1    |                                      |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
|                   | TOTAL Planning, Engineering & Design |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
|                   | TOTAL Planning, Engineering & Design |     | 1,180,015  | 0        | 177,002   | 1,357,017  |           |
| -----             |                                      |     |            |          |           |            |           |
| A3. B.31          | Construction Management (S&I)        |     |            |          |           |            |           |
| A3. B.31. 1       | Construction Management (S&I)        |     |            |          |           |            |           |
| A3. B.31. 1. 1    |                                      |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
|                   | TOTAL Construction Management (S&I)  |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
|                   | TOTAL Construction Management (S&I)  |     | 1,700,000  | 0        | 255,000   | 1,955,000  |           |
| -----             |                                      |     |            |          |           |            |           |
| A3. B.99          | 2.33                                 | AC  | 463,181    | 0        | 0         | 463,181    | 198790.00 |
|                   | TOTAL Non-Construction Cost          |     | 3,343,196  | 0        | 432,002   | 3,775,198  |           |
|                   | TOTAL PLAN ALTERNATIVE A-3 (CONST.)  |     | 26,016,902 | 0        | 2,572,058 | 28,588,960 |           |
| -----             |                                      |     |            |          |           |            |           |
| A4                | PLAN ALTERNATIVE A-4 (CONST.)        |     |            |          |           |            |           |
| A4. A             | Construction Cost                    |     |            |          |           |            |           |
| A4. A.12          | Navigation Ports and Harbors         |     |            |          |           |            |           |
| A4. A.12.02       | Harbors                              |     |            |          |           |            |           |
| A4. A.12.02.01    | Mobil, Demobil & Prep Work           |     |            |          |           |            |           |
| A4. A.12.02.01.01 |                                      |     | 690,000    | 0        | 13,800    | 703,800    |           |
|                   | TOTAL Mobil, Demobil & Prep Work     |     | 690,000    | 0        | 13,800    | 703,800    |           |
| -----             |                                      |     |            |          |           |            |           |
| A4. A.12.02.16    | Pipeline Dredging                    |     |            |          |           |            |           |
| A4. A.12.02.16.01 | 1262000                              | CY  | 5,426,600  | 0        | 108,532   | 5,535,132  |           |
| A4. A.12.02.16.02 | 1414000                              | CY  | 7,847,700  | 0        | 156,954   | 8,004,654  | 5.66      |
|                   | TOTAL Pipeline Dredging              |     | 13,274,300 | 0        | 265,486   | 13,539,786 |           |

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|                   | QUANTITY                       | UOM | CONTRACT                             | ESCALATN   | CONTINGN | TOTAL COST | UNIT COST  |
|-------------------|--------------------------------|-----|--------------------------------------|------------|----------|------------|------------|
| -----             |                                |     |                                      |            |          |            |            |
| A4. A.12.02.20    | Disposal Areas                 |     |                                      |            |          |            |            |
| A4. A.12.02.20.01 |                                |     | 1,050,000                            | 0          | 21,000   | 1,071,000  |            |
| A4. A.12.02.20.02 |                                |     | 8,650,000                            | 0          | 173,000  | 8,823,000  |            |
|                   |                                |     | -----                                |            |          |            |            |
|                   |                                |     | TOTAL Disposal Areas                 | 9,700,000  | 0        | 194,000    | 9,894,000  |
| -----             |                                |     |                                      |            |          |            |            |
| A4. A.12.02.99    | Associated General Items       |     |                                      |            |          |            |            |
| A4. A.12.02.99.01 |                                |     | 100,000                              | 0          | 2,000    | 102,000    |            |
|                   |                                |     | -----                                |            |          |            |            |
|                   |                                |     | TOTAL Associated General Items       | 100,000    | 0        | 2,000      | 102,000    |
| -----             |                                |     |                                      |            |          |            |            |
|                   |                                |     | TOTAL Harbors                        | 23,764,300 | 0        | 475,286    | 24,239,586 |
| -----             |                                |     |                                      |            |          |            |            |
|                   |                                |     | TOTAL Navigation Ports and Harbors   | 23,764,300 | 0        | 475,286    | 24,239,586 |
| -----             |                                |     |                                      |            |          |            |            |
|                   |                                |     | TOTAL Construction Cost              | 23,764,300 | 0        | 475,286    | 24,239,586 |
| -----             |                                |     |                                      |            |          |            |            |
| A4. B             | Non-Construction Cost          |     |                                      |            |          |            |            |
| A4. B.01          | Lands and Damages              |     |                                      |            |          |            |            |
|                   |                                |     | 0                                    | 0          | 0        | 0          |            |
|                   |                                |     | -----                                |            |          |            |            |
|                   |                                |     | TOTAL Lands and Damages              | 0          | 0        | 0          | 0          |
| -----             |                                |     |                                      |            |          |            |            |
| A4. B.30          | Planning, Engineering & Design |     |                                      |            |          |            |            |
| A4. B.30.1        | Planning, Engineering & Design |     |                                      |            |          |            |            |
| A4. B.30.1.1      |                                |     | 1,180,015                            | 0          | 23,600   | 1,203,615  |            |
|                   |                                |     | -----                                |            |          |            |            |
|                   |                                |     | TOTAL Planning, Engineering & Design | 1,180,015  | 0        | 23,600     | 1,203,615  |
| -----             |                                |     |                                      |            |          |            |            |
|                   |                                |     | TOTAL Planning, Engineering & Design | 1,180,015  | 0        | 23,600     | 1,203,615  |
| -----             |                                |     |                                      |            |          |            |            |
| A4. B.31          | Construction Management (S&I)  |     |                                      |            |          |            |            |
| A4. B.31.1        | Construction Management (S&I)  |     |                                      |            |          |            |            |
| A4. B.31.1.1      |                                |     | 1,780,002                            | 0          | 35,600   | 1,815,602  |            |
|                   |                                |     | -----                                |            |          |            |            |
|                   |                                |     | TOTAL Construction Management (S&I)  | 1,780,002  | 0        | 35,600     | 1,815,602  |
| -----             |                                |     |                                      |            |          |            |            |
|                   |                                |     | TOTAL Construction Management (S&I)  | 1,780,002  | 0        | 35,600     | 1,815,602  |
| -----             |                                |     |                                      |            |          |            |            |
| A4. B.99          | 4.75 AC                        |     | 944,253                              | 0          | 0        | 944,253    | 198790.00  |
| -----             |                                |     |                                      |            |          |            |            |

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Eff. Date 10/01/02 PROJECT MHF310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

SUMMARY

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|   | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COS |
|---|----------|-----|------------|----------|----------|------------|----------|
| TOTAL Non-Construction Cost                       |          |     | 3,904,270  | 0        | 59,200   | 3,963,470  |          |
| TOTAL PLAN ALTERNATIVE A-4 (CONST.)               |          |     | 27,668,570 | 0        | 534,486  | 28,203,056 |          |
| A6 PLAN ALTERNATIVE A-6 (CONST.)                  |          |     |            |          |          |            |          |
| A6. A Construction Cost                           |          |     |            |          |          |            |          |
| A6. A.12 Navigation Ports and Harbors             |          |     |            |          |          |            |          |
| A6. A.12.02 Harbors                               |          |     |            |          |          |            |          |
| A6. A.12.02.01 Mobil, Demobil & Prep Work         |          |     |            |          |          |            |          |
| A6. A.12.02.01.01 Turning Basin & E.C. Wideners   |          |     | 690,000    | 0        | 13,800   | 703,800    |          |
| TOTAL Mobil, Demobil & Prep Work                  |          |     | 690,000    | 0        | 13,800   | 703,800    |          |
| A6. A.12.02.16 Pipeline Dredging                  |          |     |            |          |          |            |          |
| A6. A.12.02.16.01 Turning Basin (900' X 1300')    | 1344466  | CY  | 5,838,930  | 0        | 116,779  | 5,955,709  | 4.43     |
| A6. A.12.02.16.02 Entrance Channel Wideners       | 1414000  | CY  | 7,847,700  | 0        | 156,954  | 8,004,654  | 5.66     |
| TOTAL Pipeline Dredging                           |          |     | 13,686,630 | 0        | 273,733  | 13,960,363 |          |
| A6. A.12.02.20 Disposal Areas                     |          |     |            |          |          |            |          |
| A6. A.12.02.20.01 Mob/Demob for Dike Construction |          |     | 1,050,000  | 0        | 21,000   | 1,071,000  |          |
| A6. A.12.02.20.02 Raise Port Upland D/A Dikes 55' |          |     | 8,650,000  | 0        | 173,000  | 8,823,000  |          |
| TOTAL Disposal Areas                              |          |     | 9,700,000  | 0        | 194,000  | 9,894,000  |          |
| A6. A.12.02.99 Associated General Items           |          |     |            |          |          |            |          |
| A6. A.12.02.99.01 Turbidity Monitoring            |          |     | 100,000    | 0        | 2,000    | 102,000    |          |
| TOTAL Associated General Items                    |          |     | 100,000    | 0        | 2,000    | 102,000    |          |
| TOTAL Harbors                                     |          |     | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| TOTAL Navigation Ports and Harbors                |          |     | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| TOTAL Construction Cost                           |          |     | 24,176,630 | 0        | 483,533  | 24,660,163 |          |
| A6. B Non-Construction Cost                       |          |     |            |          |          |            |          |

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\*\* PROJECT OWNER SUMMARY - Detail \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|---|--------------|------------|----------|----------|------------|-----------|
| A6. B.01 Lands and Damages                      |              | 0          | 0        | 0        | 0          |           |
| TOTAL Lands and Damages                         |              | 0          | 0        | 0        | 0          |           |
| A6. B.30 Planning, Engineering & Design         |              |            |          |          |            |           |
| A6. B.30. 1 Planning, Engineering & Design      |              |            |          |          |            |           |
| A6. B.30. 1. 1 Planning, Engineering & Design   |              | 1,210,000  | 0        | 24,200   | 1,234,200  |           |
| TOTAL Planning, Engineering & Design            |              | 1,210,000  | 0        | 24,200   | 1,234,200  |           |
| TOTAL Planning, Engineering & Design            |              | 1,210,000  | 0        | 24,200   | 1,234,200  |           |
| A6. B.31 Construction Management (S&I)          |              |            |          |          |            |           |
| A6. B.31. 1 Construction Management (S&I)       |              |            |          |          |            |           |
| A6. B.31. 1. 1 Construction Management (S&I)    |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| TOTAL Construction Management (S&I)             |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| TOTAL Construction Management (S&I)             |              | 1,810,002  | 0        | 36,200   | 1,846,202  |           |
| A6. B.99 Seagrass Mitigation by Others          | 5.08 AC      | 1,009,853  | 0        | 0        | 1,009,853  | 198790.00 |
| TOTAL Non-Construction Cost                     |              | 4,029,855  | 0        | 60,400   | 4,090,255  |           |
| TOTAL PLAN ALTERNATIVE A-6 (CONST.)             |              | 28,206,485 | 0        | 543,933  | 28,750,418 |           |
| A7 PLAN ALTERNATIVE A-7 (CONST.)                |              |            |          |          |            |           |
| A7. A Construction Cost                         |              |            |          |          |            |           |
| A7. A.12 Navigation Ports and Harbors           |              |            |          |          |            |           |
| A7. A.12.02 Harbors                             |              |            |          |          |            |           |
| A7. A.12.02.01 Mobil, Demobil & Prep Work       |              |            |          |          |            |           |
| A7. A.12.02.01.01 Turning Basin & E.C. Wideners |              | 690,000    | 0        | 13,800   | 703,800    |           |
| TOTAL Mobil, Demobil & Prep Work                |              | 690,000    | 0        | 13,800   | 703,800    |           |
| A7. A.12.02.16 Pipeline Dredging                |              |            |          |          |            |           |
| A7. A.12.02.16.01 Turning Basin (900' X 1300')  | 1075906 CY   | 5,054,412  | 0        | 101,088  | 5,155,500  | 4.79      |

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SUMMARY PAGE

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COS |
|---|--------------|------------|----------|----------|------------|----------|
| A7. A.12.02.16.02 Entrance Channel Wideners       | 1414000 CY   | 7,847,700  | 0        | 156,954  | 8,004,654  | 5.6      |
| TOTAL Pipeline Dredging                           |              | 12,902,112 | 0        | 258,042  | 13,160,154 |          |
| A7. A.12.02.20 Disposal Areas                     |              |            |          |          |            |          |
| A7. A.12.02.20.01 Mob/Demob for Dike Construction |              | 1,050,000  | 0        | 21,000   | 1,071,000  |          |
| A7. A.12.02.20.02 Raise Port Upland D/A Dikes 55' |              | 8,650,000  | 0        | 173,000  | 8,823,000  |          |
| TOTAL Disposal Areas                              |              | 9,700,000  | 0        | 194,000  | 9,894,000  |          |
| A7. A.12.02.99 Associated General Items           |              |            |          |          |            |          |
| A7. A.12.02.99.01 Turbidity Monitoring            |              | 100,000    | 0        | 2,000    | 102,000    |          |
| TOTAL Associated General Items                    |              | 100,000    | 0        | 2,000    | 102,000    |          |
| TOTAL Harbors                                     |              | 23,392,112 | 0        | 467,842  | 23,859,954 |          |
| TOTAL Navigation Ports and Harbors                |              | 23,392,112 | 0        | 467,842  | 23,859,954 |          |
| TOTAL Construction Cost                           |              | 23,392,112 | 0        | 467,842  | 23,859,954 |          |
| A7. B Non-Construction Cost                       |              |            |          |          |            |          |
| A7. B.01 Lands and Damages                        |              |            |          |          |            |          |
| TOTAL Lands and Damages                           |              | 0          | 0        | 0        | 0          |          |
| A7. B.30 Planning, Engineering & Design           |              |            |          |          |            |          |
| A7. B.30. 1 Planning, Engineering & Design        |              |            |          |          |            |          |
| A7. B.30. 1. 1 Planning, Engineering & Design     |              |            |          |          |            |          |
| TOTAL Planning, Engineering & Design              |              | 1,210,002  | 0        | 24,200   | 1,234,202  |          |
| TOTAL Planning, Engineering & Design              |              | 1,210,002  | 0        | 24,200   | 1,234,202  |          |
| A7. B.31 Construction Management (S&I)            |              |            |          |          |            |          |
| A7. B.31. 1 Construction Management (S&I)         |              |            |          |          |            |          |
| TOTAL Construction Management (S&I)               |              | 1,750,002  | 0        | 35,000   | 1,785,002  |          |

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Eff. Date 10/01/02

PROJECT MHF310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

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\*\* PROJECT OWNER SUMMARY - Detail \*\*

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|  | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN | TOTAL COST | UNIT COST |
|--|--------------|------------|----------|----------|------------|-----------|
| TOTAL Construction Management (S&I)    |              | 1,750,002  | 0        | 35,000   | 1,785,002  |           |
| TOTAL Construction Management (S&I)    |              | 1,750,002  | 0        | 35,000   | 1,785,002  |           |
| A7. B.99 Seagrass Mitigation by Others | 4.23 AC      | 840,882    | 0        | 0        | 840,882    | 198790.00 |
| TOTAL Non-Construction Cost            |              | 3,800,886  | 0        | 59,200   | 3,860,086  |           |
| TOTAL PLAN ALTERNATIVE A-7 (CONST.)    |              | 27,192,998 | 0        | 527,042  | 27,720,040 |           |

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Eff. Date 10/01/02 PROJECT MHF310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

ERROR REPORT

ERROR

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No errors detected...

\* \* \* END OF ERROR REPORT \* \* \*

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PROJECT MHF310: MANATEE HARBOR - LRR/PAC REPORT - TURNING BASIN AND E.C. WIDENER

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Eff. Date 05/29/03

PROJECT MHFSCO:

U.S. Army Corps of Engineers  
Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener  
Supplement to MHF310 dtd. 29 May 2003

TIME 17:36:48

TITLE PAGE 1

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Manatee Harbor Lrr/Pac Report  
Turning Basin and E.C. Widener  
Supplement

Designed By: COE  
Estimated By: Scott Burch

Prepared By:

Preparation Date: 05/29/03  
Effective Date of Pricing: 05/29/03

Sales Tax: 7.30%

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Eff. Date 05/29/03

PROJECT MHFSCO: Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener  
Supplement to MHF310 dtd. 29 May 2003

PROJECT NOTES

TITI 3

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This supplemental estimate is based on estimates of cost and production performed by Brian Blake. The original estimate is documented in the MCACES estimate dated 29 May 2003. In the original estimate, Alternative A-3 was based on the assumption that a modification to an existing construction contract would not be possible and that the dredging of the turning basin and the entrance channel wideners would be performed under a new contract.

Based on conversations with SAD, SAJ-CT, and SAJ-EN on 29 May 2003, it was decided that if alternative A-3 was actually constructed, it would be in the best interest of the Government to simply modify the contract and re-negotiate the unit price for the turning basin excavation rather than soliciting a new offer.

Given this new scope, the following assumptions were made for the supplemental estimate:

1. Contract prices for mobilization, excavation of the entrance channel wideners, disposal area construction, and turbidity monitoring would be used in the estimate with a 2% contingency. This is similar to the assumptions made for Alternatives A-6 and A-7 in the original estimate.
2. For the turning basin excavation, a unit price of \$6.90 is used. This unit price was developed in the original estimate based on production rates obtained from CEDEP. It is considered a fair and reasonable price for the turning basin excavation in this alternative.
3. Since the turning basin excavation will require re-negotiation with the Contractor, a contingency of 15% was used for this line item to account for uncertainty.

These assumptions were made and applied to the supplemental estimate by Scott Burch, P.E.

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PROJECT MHFSCO: Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener

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SUMMARY PAGE

\*\* PROJECT OWNER SUMMARY - Contract \*\*

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|                                     | QUANTITY | UOM | CONTRACT   | CONTINGN | TOTAL COST | UNIT COST |
|-------------------------------------|----------|-----|------------|----------|------------|-----------|
| A3 PLAN ALTERNATIVE A-3 (CONST.)    |          |     | 25,113,552 | 1009032  | 26,122,584 |           |
| TOTAL Manatee Harbor Lrr/Pac Report |          |     | 25,113,552 | 1009032  | 26,122,584 |           |

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PROJECT MHFSCO: Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener

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SUMMARY SHEET

\*\* PROJECT OWNER SUMMARY - SubElement \*\*

|   | QUANTITY                        | UOM          | CONTRACT   | CONTINGN | TOTAL COST | UNIT CO |
|---|---------------------------------|--------------|------------|----------|------------|---------|
| -----                                       |                                 |              |            |          |            |         |
| A3 PLAN ALTERNATIVE A-3 (CONST.)            |                                 |              |            |          |            |         |
| A3- A CONSTRUCTION COST                     |                                 |              |            |          |            |         |
| A3- A/12 Navigation Ports and Harbors       |                                 |              |            |          |            |         |
| A3- A/12.02 Harbors                         |                                 |              |            |          |            |         |
| A3- A/12.02.01 Mobil, Demobil & Prep Work   |                                 |              |            |          |            |         |
| A3- A/12.02.01/01                           | Turning Basin & E.C. Wideners   |              | 690,000    | 13,800   | 703,800    |         |
| TOTAL Mobil, Demobil & Prep Work            |                                 |              | 690,000    | 13,800   | 703,800    |         |
| A3- A/12.02.16 Pipeline Dredging            |                                 |              |            |          |            |         |
| A3- A/12.02.16/01                           | Turning Basin 900 ft            | 564951.00 CY | 3,898,162  | 584,724  | 4,482,886  | .9      |
| A3- A/12.02.16/02                           | Entrance Channel Wideners       | 1414000 CY   | 7,847,700  | 156,954  | 8,004,654  | 5.6     |
| TOTAL Pipeline Dredging                     |                                 |              | 11,745,862 | 741,678  | 12,487,540 |         |
| A3- A/12.02.20 Disposal Areas               |                                 |              |            |          |            |         |
| A3- A/12.02.20/01                           | Mob/Demob for Dike Construction |              | 1,050,000  | 21,000   | 1,071,000  |         |
| A3- A/12.02.20/02                           | Raise PORT Upland D/A Dikes 55' |              | 8,650,000  | 173,000  | 8,823,000  |         |
| TOTAL Disposal Areas                        |                                 |              | 9,700,000  | 194,000  | 9,894,000  |         |
| A3- A/12.02.99 Associated General Items     |                                 |              |            |          |            |         |
| A3- A/12.02.99/01                           | Turbidity Monitoring            |              | 100,000    | 2,000    | 102,000    |         |
| TOTAL Associated General Items              |                                 |              | 100,000    | 2,000    | 102,000    |         |
| TOTAL Harbors                               |                                 |              | 22,235,862 | 951,478  | 23,187,340 |         |
| TOTAL Navigation Ports and Harbors          |                                 |              | 22,235,862 | 951,478  | 23,187,340 |         |
| TOTAL CONSTRUCTION COST                     |                                 |              | 22,235,862 | 951,478  | 23,187,340 |         |
| -----                                       |                                 |              |            |          |            |         |
| A3- B NON CONSTRUCTION COST                 |                                 |              |            |          |            |         |
| A3- B/30 Planning Engineering and Design    |                                 |              |            |          |            |         |
| A3- B/30.01 Planning Engineering and Design |                                 |              |            |          |            |         |

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PROJECT MHFSCO: Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener

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SUMMARY PAGE 1

\*\* PROJECT OWNER SUMMARY - SubElement \*\*

|  | QUANTITY UOM | CONTRACT   | CONTINGN | TOTAL COST | UNIT COST |
|--|--------------|------------|----------|------------|-----------|
| A3- B/30.01. 1 Planning Engineering and Design |              | 1,210,000  | 24,200   | 1,234,200  |           |
| TOTAL Planning Engineering and Design          |              | 1,210,000  | 24,200   | 1,234,200  |           |
| TOTAL Planning Engineering and Design          |              | 1,210,000  | 24,200   | 1,234,200  |           |
| A3- B/31 Construction Management (S&I)         |              |            |          |            |           |
| A3- B/31. 1 Construction Management (S&I)      |              |            |          |            |           |
| A3- B/31. 1. 1 Construction Management (S&I)   |              | 1,667,690  | 33,354   | 1,701,044  |           |
| TOTAL Construction Management (S&I)            |              | 1,667,690  | 33,354   | 1,701,044  |           |
| TOTAL Construction Management (S&I)            |              | 1,667,690  | 33,354   | 1,701,044  |           |
| TOTAL NON CONSTRUCTION COST                    |              | 2,877,690  | 57,554   | 2,935,244  |           |
| TOTAL PLAN ALTERNATIVE A-3 (CONST.)            |              | 25,113,552 | 1009032  | 26,122,584 |           |
| TOTAL Manatee Harbor Lrr/Pac Report            |              | 25,113,552 | 1009032  | 26,122,584 |           |

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Supplement to MHF310 dtd. 29 May 2003

SUMMAR 3

\*\* 2ND VIEW SUMMARY \*\*

|  | CONTRACT   | TOTAL     | ROW% | TOTAL      | COL%  |
|--|------------|-----------|------|------------|-------|
| ----- ** CONTINGN ** - ** PROJECT ** ----- |            |           |      |            |       |
| 12 Navigation Ports and Harbors            |            |           |      |            |       |
| 12.A3 PLAN ALTERNATIVE A-3 (CONST.)        | 22,235,862 | 951,478   | 4.3% | 23,187,340 | 100%  |
| -----                                      |            |           |      |            |       |
| 12 Navigation Ports and Harbors            | 22,235,862 | 951,478   | 4.3% | 23,187,340 | 88.8% |
| -----                                      |            |           |      |            |       |
| 30 Planning Engineering and Design         |            |           |      |            |       |
| 30.A3 PLAN ALTERNATIVE A-3 (CONST.)        | 1,210,000  | 24,200    | 2.0% | 1,234,200  | 100%  |
| -----                                      |            |           |      |            |       |
| 30 Planning Engineering and Design         | 1,210,000  | 24,200    | 2.0% | 1,234,200  | 4.7%  |
| -----                                      |            |           |      |            |       |
| 31 Construction Management (S&I)           |            |           |      |            |       |
| 31.A3 PLAN ALTERNATIVE A-3 (CONST.)        | 1,667,690  | 33,354    | 2.0% | 1,701,044  | 100%  |
| -----                                      |            |           |      |            |       |
| 31 Construction Management (S&I)           | 1,667,690  | 33,354    | 2.0% | 1,701,044  | 6.5%  |
| -----                                      |            |           |      |            |       |
| Manatee Harbor Lrr/Pac Report              | 25,113,552 | 1,009,032 | 4.0% | 26,122,584 | 100%  |



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PROJECT MHFSCO: Manatee Harbor Lrr/Pac Report - Turning Basin and E.C. Widener  
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CONTENT 3

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No Detailed Estimate...

No Backup Reports...

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U.S. Army Corps of Engineers

TIME 07:43:08

Eff. Date 10/01/02 PROJECT MHF311: MANATEE HARBOR - LRR/PAC REPORT - FUTURE MAINTENANCE REQUIREMENTS

TITLE PAGE 1

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MANATEE HARBOR - LRR/PAC REPORT  
FUTURE MAINTENANCE REQUIREMENTS  
(Revised with adjusted dredging  
quantities including the Federal  
Channel & Local Sponsor Berths)

Designed By: CESAJ-PD-PN & CESAJ-DP-C  
Estimated By: CESAJ-EN-C

Prepared By: B. BLAKE

Preparation Date: 05/29/03  
Effective Date of Pricing: 10/01/02

Sales Tax: 7.30%

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PLANNING ESTIMATE INCLUDING PROFIT AND CONTINGENCY

MANATEE HARBOR, LRR AND PAC REPORT, FUTURE MAINTENANCE REQUIREMENTS

\* - Reference meeting held 22 May 2003 in CESAJ-EN-A office concerning what the appropriate cost basis should be for the subject project restudy according to CESAJ-DP. Mr. Bonner explained that contract prices should be used as the basis for the cost estimates where possible and Mr. Sanders agreed to this. New cost scenarios were developed for the construction cost for each of the Plan Alternatives. Initially the actual contract prices for maintenance dredging were used along with actual shoaling quantities provided by DP to rerun the cost estimate for the future maintenance dredging. These costs were considered unreasonable high primarily because of the apparent high mobilization/demobilization contract cost. The contract price appears to be materially unbalanced in contrast to the overall contract requirements that included mobilization for dike construction and construction dredging.

\*\* - During a subsequent meeting held in CESAJ-DP-C on 23 May 2003 it was decided to continue to use the previous independent Government estimated costs that were based on the future maintenance plan developed by CESAJ-PD-PN as these costs appeared to be more representative of actual maintenance dredging costs in the Tampa Harbor area. It was also decided that the highest maintenance cost alternative would be used for all plan alternatives.

Reference project maintenance worksheets provided by CESAJ-PD-PN/J. Zediak. The worksheets provided the projected dredging cycles and quantities for each of the LRR/PAC plan alternatives for the 50-year project life.

\*\*\* - Reference revised future project maintenance plan worksheet provided by CESAJ-PD-PN/J. Zediak on 27 May 2003. The revised plan includes the future maintenance dredging quantities projected by CESAJ-CO-OM and CESAJ-DP-C. The revised plan includes the new Turning Basin and Wideners along with the existing Federal Channel and Local Sponsor Berths. The first 9 maintenance cycles occurring between 2007 to 2031 will utilize the Port upland disposal site for placement including offloading during years 2013, 2016, 2019, and 2022 to provide the additional disposal capacity. The remaining 8 maintenance cycles occurring between 2034 and 2057 will utilize the Tampa Harbor ODMS for placement to complete the 50 year project life.

Disposal during the first 20-year cycles will be into the Port upland disposal area. Capacity will be maintained by offloading the upland disposal material and placing it into the nearby quarry pits located on Buckeye Road approximately 2.5 miles from the disposal site.

Remaining disposal during the final 30-year cycles will be into the Tampa Harbor offshore ODMS disposal site.

-----

Estimate Assumptions:

1. The dredging cost were computed using the Cost Engineering Dredge Estimating Program (CEDEP) in accordance with ER 1110-2-1302.
2. The dredging with upland disposal will be accomplished using a 30-inch cutter suction pipeline dredge with boosters. The dredging with offshore ODMDS disposal will be accomplished using a 21-CYD clamshell dredge loading scow barges.
3. The dredging quantities and areas used in CEDEP to compute the dredging cost were based on the above information provided by CESAJ-PD-PN. The character of materials used in CEDEP is assumed to be shoaling material consisting of sand and silt.
4. The dredge performance (EWT%) and production (Gross cy/hr) used in CEDEP was based on a prior contract that utilized similar dredging equipment working similar project conditions as the subject project.
5. Turbidity monitoring is included under the Associated General Items cost category based on the dredging times computed in CEDEP for each plan alternative.

Estimate Parameters:

1. Assumed 16.5 percent combined field and home-office overhead.
2. Assumed 10.0 percent profit.
3. Assumed 1.0 percent contractor bonds.
4. Applied 15.0 percent contingency appropriate for the level of project development and design.
5. Estimate costs are in current dollars based on effective pricing as of 1 October 2002. No escalation has been applied. The Federal interest rate used in the estimate is 5-7/8 (5.875) percent.
6. Non-construction cost including PED, S&A, and Lands/Damages costs were the same used in the previous EDR.

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SUMMARY . 1

\*\* PROJECT OWNER SUMMARY - Plan \*\*

|                                    | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN   | TOTAL COST | UNIT COST | COST |
|------------------------------------|----------|-----|------------|----------|------------|------------|-----------|------|
| MD FUTURE MAINTENANCE REQUIREMENTS |          |     | 85,777,381 | 0        | 12,866,607 | 98,643,988 |           |      |

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SUMMARY PAGE 2

\*\* PROJECT OWNER SUMMARY - Category \*\*

|                                       | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN   | TOTAL COST | UNIT COST |
|---------------------------------------|----------|-----|------------|----------|------------|------------|-----------|
| MD FUTURE MAINTENANCE REQUIREMENTS    |          |     |            |          |            |            |           |
| MD. A Construction Cost               |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |           |
| MD. B Non-Construction Cost           |          |     | 10,860,000 | 0        | 1,629,000  | 12,489,000 |           |
| TOTAL FUTURE MAINTENANCE REQUIREMENTS |          |     | 85,777,381 | 0        | 12,866,607 | 98,643,988 |           |

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Eff. Date 10/01/02 PROJECT MHF311: MANATEE HARBOR - LRR/PAC REPORT - FUTURE MAINTENANCE REQUIREMENTS

SUMMARY . 3

\*\* PROJECT OWNER SUMMARY - Feature \*\*

|   | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN   | TOTAL COST | UNIT COST |
|---|----------|-----|------------|----------|------------|------------|-----------|
| -----                                   |          |     |            |          |            |            |           |
| MD FUTURE MAINTENANCE REQUIREMENTS      |          |     |            |          |            |            |           |
| MD. A Construction Cost                 |          |     |            |          |            |            |           |
| MD. A.12 Navigation Ports and Harbors   |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |           |
|   |          |     | -----      | -----    | -----      | -----      |           |
| TOTAL Construction Cost                 |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |           |
| MD. B Non-Construction Cost             |          |     |            |          |            |            |           |
| MD. B.01 Lands and Damages              |          |     | 0          | 0        | 0          | 0          |           |
| MD. B.30 Planning, Engineering & Design |          |     | 5,240,000  | 0        | 786,000    | 6,026,000  |           |
| MD. B.31 Construction Management (S&I)  |          |     | 5,620,000  | 0        | 843,000    | 6,463,000  |           |
|   |          |     | -----      | -----    | -----      | -----      |           |
| TOTAL Non-Construction Cost             |          |     | 10,860,000 | 0        | 1,629,000  | 12,489,000 |           |
|   |          |     | -----      | -----    | -----      | -----      |           |
| TOTAL FUTURE MAINTENANCE REQUIREMENTS   |          |     | 85,777,381 | 0        | 12,866,607 | 98,643,988 |           |

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Eff. Date 10/01/02 PROJECT MHF311: MANATEE HARBOR - LRR/PAC REPORT - FUTURE MAINTENANCE REQUIREMENTS

SUMMARY PAGE 4

\*\* PROJECT OWNER SUMMARY - SubFeat \*\*

|   | QUANTITY   | UOM | CONTRACT | ESCALATN   | CONTINGN | TOTAL COST | UNIT COST |
|---|------------|-----|----------|------------|----------|------------|-----------|
| MD FUTURE MAINTENANCE REQUIREMENTS      |            |     |          |            |          |            |           |
| MD. A Construction Cost                 |            |     |          |            |          |            |           |
| MD. A.12 Navigation Ports and Harbors   |            |     |          |            |          |            |           |
| MD. A.12.02 Harbors                     |            |     |          |            |          |            |           |
|   | 74,917,381 |     | 0        | 11,237,607 |          | 86,154,988 |           |
| TOTAL Navigation Ports and Harbors      | 74,917,381 |     | 0        | 11,237,607 |          | 86,154,988 |           |
| TOTAL Construction Cost                 | 74,917,381 |     | 0        | 11,237,607 |          | 86,154,988 |           |
| MD. B Non-Construction Cost             |            |     |          |            |          |            |           |
| MD. B.01 Lands and Damages              |            |     |          |            |          |            |           |
|   | 0          |     | 0        | 0          |          | 0          |           |
| MD. B.30 Planning, Engineering & Design |            |     |          |            |          |            |           |
|   | 5,240,000  |     | 0        | 785,000    |          | 6,026,000  |           |
| MD. B.31 Construction Management (S&I)  |            |     |          |            |          |            |           |
|   | 5,620,000  |     | 0        | 843,000    |          | 6,463,000  |           |
| TOTAL Non-Construction Cost             | 10,860,000 |     | 0        | 1,629,000  |          | 12,489,000 |           |
| TOTAL FUTURE MAINTENANCE REQUIREMENTS   | 85,777,381 |     | 0        | 12,866,607 |          | 98,643,988 |           |

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SUMMARY

\*\* PROJECT OWNER SUMMARY - Element \*\*

|  | QUANTITY | UOM | CONTRACT   | ESCALATN | CONTINGN   | TOTAL COST | UNIT CO |
|--|----------|-----|------------|----------|------------|------------|---------|
| -----  |          |     |            |          |            |            |         |
| MD FUTURE MAINTENANCE REQUIREMENTS             |          |     |            |          |            |            |         |
| MD. A Construction Cost                        |          |     |            |          |            |            |         |
| MD. A.12 Navigation Ports and Harbors          |          |     |            |          |            |            |         |
| MD. A.12.02 Harbors                            |          |     |            |          |            |            |         |
| MD. A.12.02.01 Mobil, Demobil & Prep Work      |          |     | 12,447,446 | 0        | 1,867,117  | 14,314,563 |         |
| MD. A.12.02.15 Mechanical Dredging - ODMDS D/A |          |     | 32,906,487 | 0        | 4,935,973  | 37,842,460 |         |
| MD. A.12.02.16 Pipeline Dredging - Upland D/A  |          |     | 20,685,743 | 0        | 3,102,861  | 23,788,604 |         |
| MD. A.12.02.20 Disposal Areas - Offload Upland |          |     | 8,556,876  | 0        | 1,283,531  | 9,840,408  |         |
| MD. A.12.02.99 Associated General Items        |          |     | 320,829    | 0        | 48,124     | 368,953    |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| TOTAL Harbors                                  |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| TOTAL Navigation Ports and Harbors             |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| TOTAL Construction Cost                        |          |     | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| MD. B Non-Construction Cost                    |          |     |            |          |            |            |         |
| MD. B.01 Lands and Damages                     |          |     | 0          | 0        | 0          | 0          |         |
| MD. B.30 Planning, Engineering & Design        |          |     | 5,240,000  | 0        | 786,000    | 6,026,000  |         |
| MD. B.31 Construction Management (S&I)         |          |     | 5,620,000  | 0        | 843,000    | 6,463,000  |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| TOTAL Non-Construction Cost                    |          |     | 10,860,000 | 0        | 1,629,000  | 12,489,000 |         |
|  |          |     | -----      | -----    | -----      | -----      |         |
| TOTAL FUTURE MAINTENANCE REQUIREMENTS          |          |     | 85,777,381 | 0        | 12,866,607 | 98,643,988 |         |



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SUMMARY 3

\*\* PROJECT OWNER SUMMARY - Detail \*\*

|   | QUANTITY UOM | CONTRACT   | ESCALATN | CONTINGN   | TOTAL COST | UNIT CO |
|---|--------------|------------|----------|------------|------------|---------|
| MD. A.12.02.99.02 Turbidity Mon. Final 30-Years |              | 281,132    | 0        | 42,170     | 323,302    |         |
| TOTAL Associated General Items                  |              | 320,829    | 0        | 48,124     | 368,953    |         |
| TOTAL Harbors                                   |              | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
| TOTAL Navigation Ports and Harbors              |              | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
| TOTAL Construction Cost                         |              | 74,917,381 | 0        | 11,237,607 | 86,154,988 |         |
| MD. B Non-Construction Cost                     |              |            |          |            |            |         |
| MD. B.01 Lands and Damages                      |              | 0          | 0        | 0          | 0          |         |
| MD. B.30 Planning, Engineering & Design         |              | 5,240,000  | 0        | 786,000    | 6,026,000  |         |
| MD. B.31 Construction Management (S&I)          |              | 5,620,000  | 0        | 843,000    | 6,463,000  |         |
| TOTAL Non-Construction Cost                     |              | 10,860,000 | 0        | 1,629,000  | 12,489,000 |         |
| TOTAL FUTURE MAINTENANCE REQUIREMENTS           |              | 85,777,381 | 0        | 12,866,607 | 98,643,988 |         |

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ERROR REPORT

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ERROR PAGE 1

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No errors detected...

\* \* \* END OF ERROR REPORT \* \* \*

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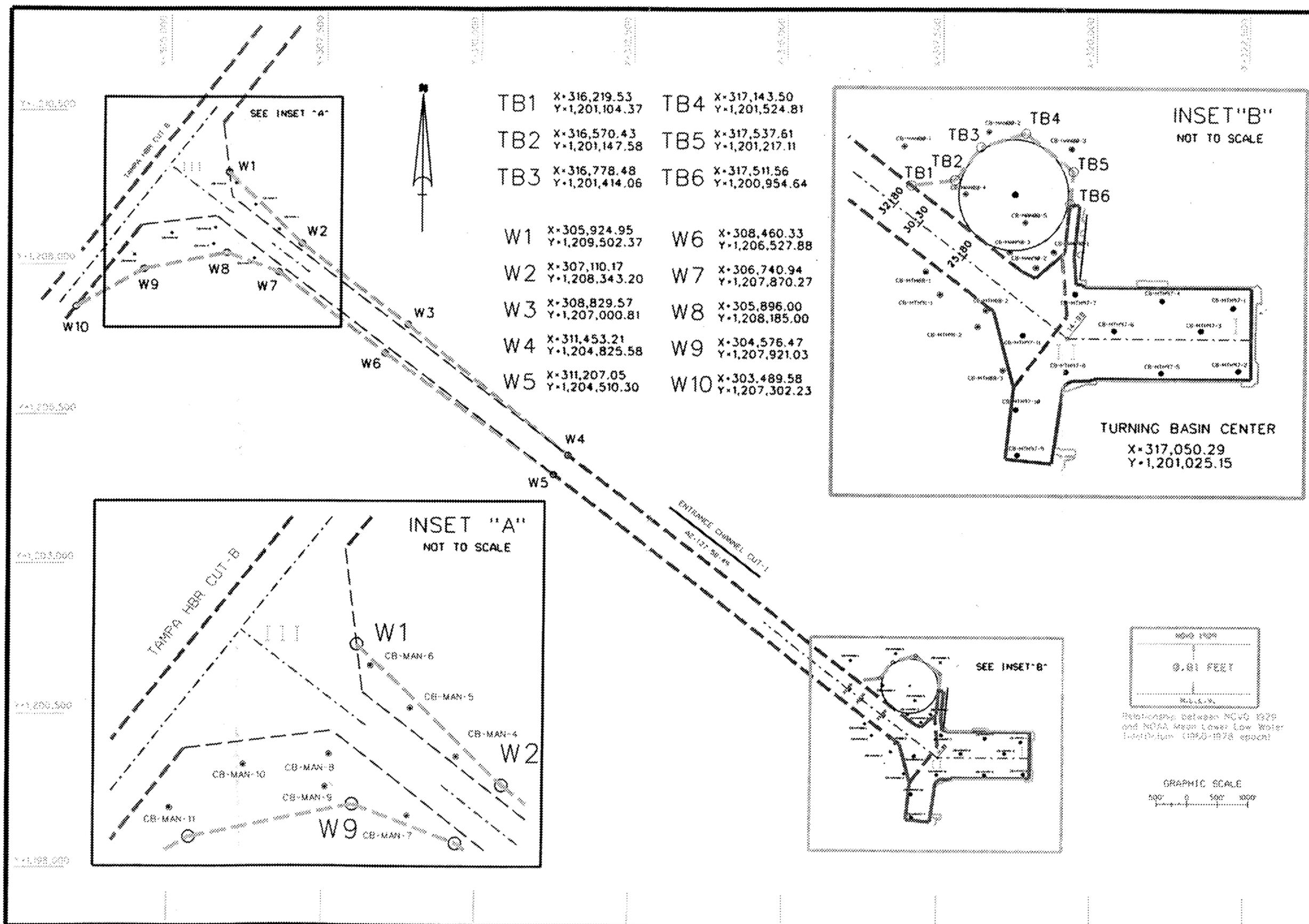
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|---------------------------------------|--------------|
| PROJECT OWNER SUMMARY - Plan.....     | 1            |
| PROJECT OWNER SUMMARY - Category..... | 2            |
| PROJECT OWNER SUMMARY - Feature.....  | 3            |
| PROJECT OWNER SUMMARY - SubFeat.....  | 4            |
| PROJECT OWNER SUMMARY - Element.....  | 5            |
| PROJECT OWNER SUMMARY - Detail.....   | 6            |

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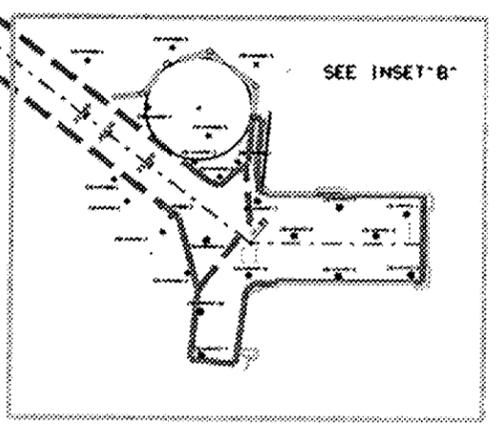
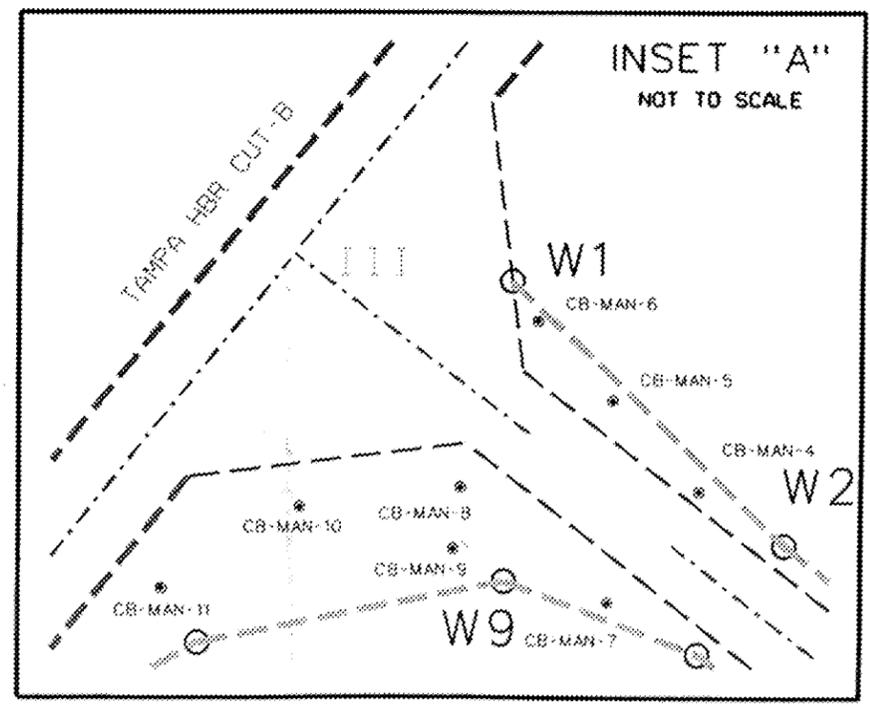
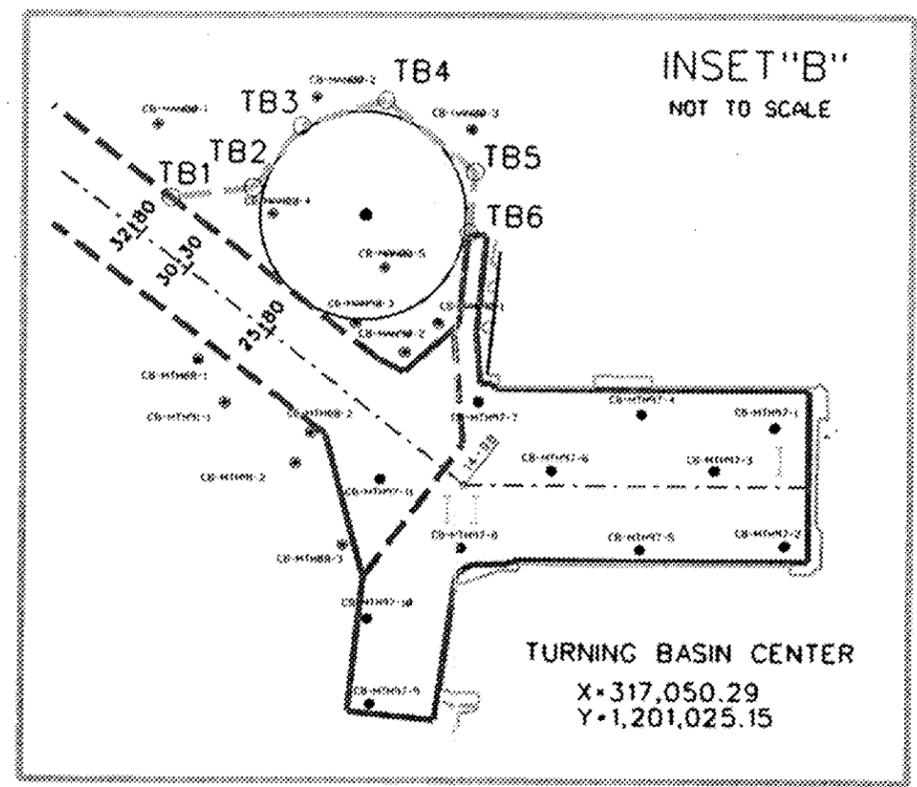
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| TB3 | X=316,778.48<br>Y=1,201,414.06 | TB6 | X=317,511.56<br>Y=1,200,954.64 |
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| W3  | X=308,829.57<br>Y=1,207,000.81 | W8  | X=305,896.00<br>Y=1,208,185.00 |
| W4  | X=311,453.21<br>Y=1,204,825.58 | W9  | X=304,576.47<br>Y=1,207,921.03 |
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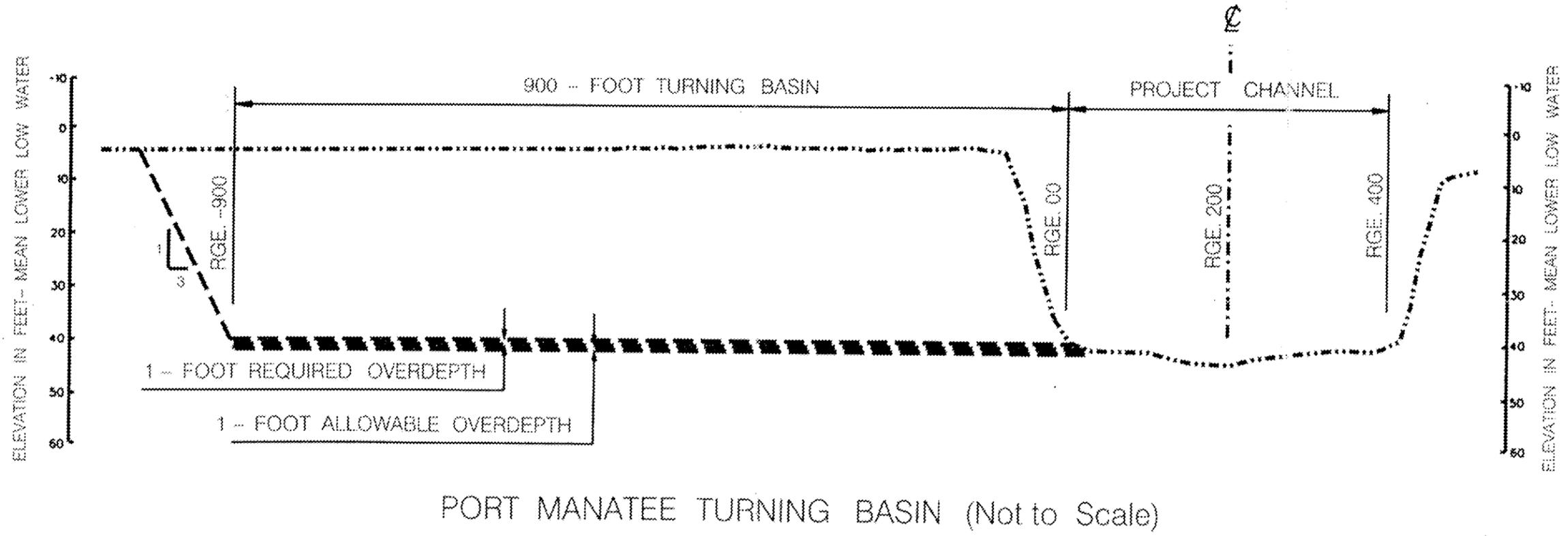
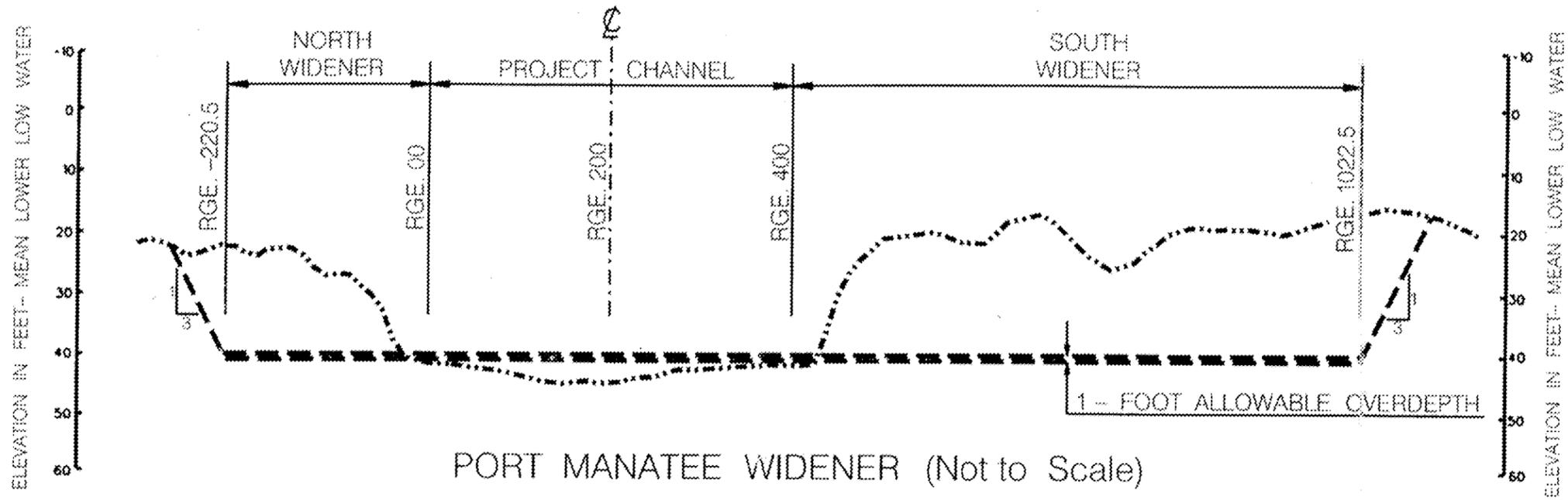
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

|             |              |          |
|-------------|--------------|----------|
| DESIGNED BY | DATE         | AS SHOWN |
| CHECKED BY  | DATE         |          |
| APPROVED BY | DATE         |          |
| PROJECT NO. | PROJECT NAME |          |
| DATE        | SCALE        |          |
| PROJECT NO. | PROJECT NAME |          |
| DATE        | SCALE        |          |

MANATEE HARBOR, FLORIDA  
LIMITED REEVALUATION REPORT  
PROJECT PLAN AND CONTROL  
ENGINEERING APPENDIX

PLATE  
B-2





DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

MANATEE HARBOR, FLORIDA  
LIMITED REEVALUATION REPORT  
ENGINEERING APPENDIX

MANATEE HARBOR, FLORIDA  
LIMITED REEVALUATION REPORT  
ENGINEERING APPENDIX

PLATE  
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