TABLE 1

Manatee Harbor EDR-June 2002 REV
40-Foot Project
Channel Wideners,
Turning Basin, and
Upland D/A Dike Raising

Designed By: Manatee Harbor EDR
Estimated By: S. Matthews

Prepared By: Sally E. Matthews

Preparation Date: 06/21/02
Effective Date of Pricing: 06/21/02

Sales Tax: 7.00%

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REVISIONS FOR JUNE 2002

Revisions requested by Bob Henderson, CESAJ-EN-DL on 19 June 2002 for this estimate include adding in the estimated costs for the Dike Raising included in the Manatee Harbor GRR estimate.

Add a line item as a Non-Construction Cost for:
Seagrass Mitigation for 4.75 acrea at $198,790/acre = $944,252.50
per request from Osvaldo Rodrigues, Project Manager through Bob Henderson, EN-DL.
Note: MCACES will round this total to whole dollars = $944,253

NOTE: Percentage used for S&A is 7.5% (not the 8% previously stated below)
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Additional Revision of Revised Preliminary Design Estimate requested by E-mail from Robert Herderson on 10 December 2001 for the purpose of including E&D and S&A percentages pf 7% and 8% respectively.

Revised Preliminary Design Estimate
(Including Profit and Contingency)

RE: E-Mail from CESAJ-EN-DL, Sent 09 November 2001 - supplying estimated quantities, material characteristics, project depth requirement, and average pumping distances, and surface area totals as follows.

Scope of Work (as per CESAJ-ED-DL E-mail):

Manatee Harbor - Cost Estimate for EDR

It is anticipated that the material would be excavated with a hydraulic pipeline dredge without blasting. The existing upland disposal area would be used, and the dikes would be raised as indicated below.

Manatee Harbor - Channel Wideners

Project Depth	Southside	Northside	TOTAL (CY)
40	1,250,000	400,000	1,650,000
(Area)	(1,900,000 sf)	(600,000 sf)	

Quantities include project depth plus 1-foot of allowable overdepth.
Material consists of sand and shell and will be placed in the upland D/A.
Average pumping distance approximately 4.5 miles.

Manatee Harbor - Turning Basin

Project Depth	Diameter (ft)	Area (sf)	Sand/Clay	Rock	TOTAL (CY)
40	900	850,000	1,415,000	160,000	1,575,000

Quantities include project depth plus 1-foot of allowable overdepth.
Material consists of sand and shell with about 10 percent rock.
The dredged material will be placed in the existing upland DA, 1.5 miles +/-.

Manatee Harbor - Upland D/A Dike Raising

Raise disposal area dikes 7 feet, from elevation 29 to elevation 36 feet. Construction material would be excavated from within the existing DA. (Dike length - 7,600 feet)

Required Quantity - 295,000 cubic yards.

Additional Note: There will be a 37 foot rise for the discharge pipeline at the disposal area. This will need to be factored into the total pipeline considered.

SUMMARY REPORTS SUMMARY PAGE

PROJECT OWNER SUMMARY - Bid Item.....1

No Detailed Estimate...

No Backup Reports...

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** PROJECT OWNER SUMMARY - Bid Item **

		QUANTITY UOM	CONTRACT	CONTING	E&D	S&A	TOTAL COST	UNIT COST
A1	Channel Widener - Southside							
A1_01	Mobilization and Demobilization		1,202,027	180,304	96,763	110,932	1,590,026	
A1_02	Entrance Channel Excavation	1125000 CY	7,162,193	1074329	576,557	660,981	9,474,059	8.42
A1_03	Turbidity Monitoring		59,474	8,921	4,788	5,489	78,671	
TOTAL	Channel Widener - Southside		8,423,693	1263554	678,107	777,402	11,142,756	
A2	Channel Widener - Northside							
A2_02	Entrance Channel Excavation	400000.00 CY	2,291,902	343,785	184,498	211,514	3,031,699	7.58
A2_03	Turbidity Monitoring		19,033	2,855	1,532	1,757	25,177	
TOTAL	Channel Widener - Northside		2,310,935	346,640	186,030	213,270	3,056,876	
A3	Turning Basin							
A3_01	Transitional Mobilization		73,038	10,956	5,880	6,741	96,614	
A3_02	Turning Basin Excavation	1575000 CY	6,522,940	978,441	525,097	601,986	8,628,464	5.48
A3_03	Turbidity Monitoring		71,490	10,724	5,755	6,598	94,566	
TOTAL	Turning Basin		6,667,469	1000120	536,731	615,324	8,819,644	
A4	Upland D/A Dike Raising							
A4_01	Manatee Harbor-Upland D/A Dike		2,220,362	333,054	178,739	204,912	2,937,067	
TOTAL	Upland D/A Dike Raising	1.00 EA	2,220,362	333,054	178,739	204,912	2,937,067	2937067
B1	Non-Construction Cost							
B1_01	Seagrass Mitigation	4.75 AC	944,253	0	0	0	944,253	198790.00
TOTAL	Non-Construction Cost		944,253	0	0	0	944,253	
TOTAL	Manatee Harbor EDR-June 2002 REV		20,566,712	2943369	1579608	1810908	26,900,596	