



PORT EVERGLADES MASTER PLAN

APPENDIX G BULKHEAD ORDER-OF-MAGNITUDE COST ESTIMATES



Bulkheads (Replacement and New) - Order of Magnitude Cost Estimate

Berth/Bulkhead ID	Length	Bulkhead Cost	Fendering Cost	Bollard Cost	Apron Cost	Utility Cost	Sub Cost w/Contingency	GC Costw/O&P	Design/Inspection	Total Costs	Milestone
Berths 1, 2 & 3	1,621	25,125,500	185,000	50,000	2,431,500	486,300	32,520,045	35,772,050	3,577,205	39,349,254	20
Berth 4 (existing)	921	14,275,500	185,000	50,000	1,381,500	276,300	18,593,545	20,452,900	2,045,290	22,498,189	10
Berth 4 (extension)	379	5,874,500				568,500	7,540,205	8,294,226	829,423	9,123,648	10
Bulkhead 4-5 (existing)	270	4,185,000					4,812,750	5,294,025	529,403	5,823,428	10
Bulkhead 4-5 (extension)	205	3,177,500					3,654,125	4,019,538	401,954	4,421,491	10
Berth 5	902	13,981,000	150,000	50,000	1,353,000	2,255,000	20,457,350	22,503,085	2,250,309	24,753,394	10
Berth 5 (extension)	392	6,076,000			588,000	980,000	8,790,600	9,669,660	966,966	10,636,626	10
Berth 6	406	6,293,000					7,236,950	7,960,645	796,065	8,756,710	10
Berth 6 (reduction)	-256	-3,968,000					-4,563,200	-5,019,520	-501,952	-5,521,472	10
Berths 7 & 8	1,194	18,507,000	150,000	50,000	895,500	2,985,000	25,975,625	28,573,188	2,857,319	31,430,506	20
Bulkhead 8-9 (existing)	300	4,650,000					5,347,500	5,882,250	588,225	6,470,475	20
Bulkhead 8-9 (extension)	175	2,712,500					3,119,375	3,431,313	343,131	3,774,444	20
Berths 9 & 10	1,194	18,507,000	150,000	50,000	1,343,250	2,985,000	26,490,538	29,139,591	2,913,959	32,053,550	20
Berth 11 (existing)	508	7,874,000				762,000	9,931,400	10,924,540	1,092,454	12,016,994	20
Berth 11 (reduction)	-433	-6,711,500					-7,718,225	-8,490,048	-849,005	-9,339,052	20
Berths 12 & 13 (existing)	1,232	19,096,000	220,000	80,000			25,847,400	28,432,140	2,843,214	31,275,354	20
Berths 12 & 13 (extension)	268	4,154,000					4,777,100	5,254,810	525,481	5,780,291	20
Bulkhead 13-14 (existing)	300	4,650,000					5,347,500	5,882,250	588,225	6,470,475	20
Bulkhead 13-14 (extension)	300	4,650,000					5,347,500	5,882,250	588,225	6,470,475	20
Berth 14 & 15 (existing)	1,232	19,096,000	220,000	80,000	616,000	369,600	23,438,840	25,782,724	2,578,272	28,360,996	20
Berth 14 & 15 (extension)	268	4,154,000	50,000	20,000	134,000	80,400	5,104,160	5,614,576	561,458	6,176,034	20
Berth 16, 17 & 18	1,654	25,637,000	220,000	80,000	2,481,000	496,200	33,251,330	36,576,463	3,657,646	40,234,109	20
Berth 19 & 20	1,289	19,979,500	185,000	50,000	1,933,500	386,700	25,914,905	28,506,396	2,850,640	31,357,035	20
Berth 21 & 22	1,479	22,924,500	185,000	50,000	2,218,500	443,700	29,694,955	32,664,451	3,266,445	35,930,896	20
Berth 23	500	7,750,000					8,970,000	9,867,000	986,700	10,853,700	20
Berth 24 & 25	1,373	21,281,500	185,000	50,000	2,059,500	411,900	27,586,085	30,344,694	3,034,469	33,379,163	20
Berth 26 & 27	1,347	20,878,500	185,000	50,000	3,030,750	404,100	28,230,603	31,053,663	3,105,366	34,159,029	20
Berth 28 (existing)	1,430	22,165,000	150,000	50,000		429,000	26,213,100	28,834,410	2,883,441	31,717,851	10
Berth 28 (reduction)	-865	-13,407,500			1,695,000	-259,500	-13,767,800	-15,144,580	-1,514,458	-16,659,038	10
Berth 29	833	12,911,500	150,000	50,000	2,499,000	249,900	18,239,460	20,063,406	2,006,341	22,069,747	10
Berth 29 (extension)	320	4,960,000				960,000	6,918,400	7,610,240	761,024	8,371,264	10
Total	20,738	321,439,000	2,570,000	860,000	26,950,500	16,269,300	423,302,120	465,632,332	46,563,233	512,195,565	

	<u>2008 to 2012</u>	<u>2013 to 2016</u>	<u>2017 to 2026</u>
Bulkhead (1 thru 29) Costs	0	125,991,837	386,203,728

512,195,565

ACOE Costs/Less GNF

2008 to 2012 2013 to 2016 2017 to 2026

Dredging Costs w/4%/yr Total Costs

<u>Widener</u>		15,443,000			17,913,880
<u>Turning Notch</u>	23,507,000				27,268,120
<u>SAC</u>		28,597,000			33,172,520
<u>DCC</u>			58,798,000		68,205,680
<u>ACOE Dredging Totals</u>	23,507,000	44,040,000	58,798,000		146,560,200

Total for Berths 1-29

Bulkhead & ACOE Dredging

658,755,765

Berth/Bulkhead ID Bulkhead Cost ACOE

5-Year

Turning Notch Phase 1 Extension		29,386,544		<u>MP 5-Year</u>	<u>MP 10-Year</u>	<u>MP 20-Year</u>
ACOE Dredging			23,507,000	20,700,000		32,600,000

10-Year

Slip 2 Expansion	4-5	87,256,776			90,000,000	
Petroleum Barge Slip	12,13 portion	21,892,748			24,000,000	
ICW Wharf Extension	28, 29 extension	23,430,077			25,000,000	
Turning Notch Phase 2 Extension			60,000,000		60,000,000	
Port & ACOE Dredging			44,040,000		160,000,000	
Replacement Bulkheads	26, 27, 29	56,228,776			60,000,000	

20-Year

Slips 1 & 3 Bulkheads	6-15, less 12	140,175,780			140,000,000	
DCC Development		50,000,000			50,000,000	
Replacement Bulkheads	1-3, 16-25	191,104,157			200,000,000	
Toewalls needed by Dredging	30-33		30,044,400		50,000,000	
Port & ACOE Dredging			58,798,000		108,000,000	

Total 20-Year Plan

Marine projects

1,020,300,000

Non Marine projects

984,000,000