CH-I90

ARUP

Coastal Construction - Opinion of Probable Cost

CAPITAL COST ESTIMATE		UNIT COST	UNIT	QTY		SUBTOTAL COST
35 30 00 Coastal Construction - Stone Relocation					**$**	**215,000**
Stone Relocation	$	40.00	TON	5,380	$	215,200
35 30 00 Coastal Construction - Scope A - Eastern Breakwaters, New Breakwaters					**$**	**6,023,000**
Armor Stone						
Armor Stone; 5-7 ton	$	110.00	TONS	21,720	$	2,389,200
Toe Stone						
Toe Stone; 6-8 ton	$	120.00	TONS	990	$	118,800
Other Stone						
Quarry Run Core Stone	$	85.00	TONS	39,170	$	3,329,450
Filter Gravel	$	65.00	TONS	2,760	$	179,400
Regulatory Site Features						
Boater Exclusion & Warning Signs	$	1,500.00	EA	4	$	6,000
35 30 00 Coastal Construction - Scope B - Western Breakwaters, Breakwater at Existing Structure & Bridge					**$**	**4,417,000**
Armor Stone						
Armor Stone; 3-4 ton	$	90.00	TON	760	$	68,400
Armor Stone; 5-7 ton	$	110.00	TON	20,400	$	2,244,000
Toe Stone						
Toe Stone; 4-6 ton	$	120.00	TON	120	$	14,400
Toe Stone; 6-8 ton	$	120.00	TON	1,010	$	121,200
Other Stone						
Quarry Run Core Stone	$	85.00	TON	19,700	$	1,674,500
Filter Gravel	$	65.00	TON	3,470	$	225,550
#57 Filter Stone	$	40.00	TON	32	$	1,280
Decorative Armor Stone	$	65.00	TON	900	$	58,500
Earthworks						
Native Fill (Revetment Crest)	$	63.00	CY	50	$	3,150
Geotextile Filter Fabric	$	8.00	SY	47	$	376
Regulatory Site Features						
Boater Exclusion & Warning Signs	$	1,500.00	EA	4	$	6,000
Total Direct Cost					**$**	**10,655,000**
General Conditions (Supervision & Home Office Overhead)				10%	$	1,066,000
General Requirements (Project Office, Utilities, Temporary Facilities, etc.)				5%	$	586,000
Overhead and Profit				8%	$	985,000
Total Construction Price w/o Contingency (Low)				*-20%*	*$*	*10,634,000*
Total Construction Price w/o Contingency					**$**	**13,292,000**
Total Construction Price w/o Contingency (High)				*35%*	*$*	*17,944,000*
Construction Contingency				15%	$	1,994,000
Total Construction Price w/ Contingency (Low)				*-20%*	*$*	*12,229,000*
Total Construction Price w/ Contingency					**$**	**15,286,000**
Total Construction Price w/ Contingency (High)				*35%*	*$*	*20,636,000*
Construction Administration, Engineering, Inspections, Testing				10%	$	1,529,000
Legal; Permits; Review Fees				2%	$	306,000
Owner's Project Contingency				0%	$	-
Total Owner's Soft Costs (Low)				*-20%*	*$*	*1,468,000*
Total Owner's Soft Costs					**$**	**1,835,000**
Total Owner's Soft Costs (High)				*35%*	*$*	*2,477,000*
Total Project Price w/ Funding(Low)				*-20%*	*$*	*13,700,000*
Total Project Price w/ Funding					**$**	**17,121,000**
Total Project Price w/ Funding (High)				*35%*	*$*	*23,110,000*
Other Non-Match Project Funds (local commitment to construction)				LS	$	4,100,000
Total Construction Price w/ Contingency & Funding (Low)				*-20%*	*$*	*10,417,000*
Total Construction Price w/ Contingency & Funding					**$**	**13,021,000**
Total Construction Price w/ Contingency & Funding (High)				*35%*	*$*	*17,578,000*