



HAINES BOROUGH

PORTAGE COVE HARBOR EXPANSION

WAVE BARRIER, DREDGING, GRAVEL PARKING AREA &  
SEWER LINE RELOCATION



600 LF WAVE BARRIER BASE BID - COST ESTIMATE

SEPT 28, 2015

BASE BID					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$1,235,790	\$1,235,790
1570.1	Erosion and Sediment Control - Upland Measures and Monitoring	LS	All Req'd	\$20,000	\$20,000
1570.2	Silt Containment Boom with Navigation Lights	LF	1,500	\$30	\$45,000
2060.1	Demolition, Salvage and Disposal	LS	All Req'd	\$15,000	\$15,000
2060.2	Seaplane Float Removal and Reinstallation	LS	All Req'd	\$5,000	\$5,000
2201.1	Clearing & Grubbing	LS	All Req'd	\$15,000	\$15,000
2202.1	Class A Shot Rock Borrow	CY	8,100	\$30	\$243,000
2202.2	Class B Shot Rock Borrow	CY	9,250	\$22	\$203,500
2204.1	Base Course Grading C-1	CY	450	\$50	\$22,500
2205.1	Class II Armor Rock	CY	3,250	\$60	\$195,000
2205.2	Class III Armor Rock	CY	2,700	\$70	\$189,000
2205.3	Class IV Armor Rock	CY	580	\$70	\$40,600
2205.4	Remove and Replace Armor Rock on Rubble Mound Breakwater	LS	All Req'd	\$100,000	\$100,000
2401.1	Furnish 16" Dia. HDPE Wastewater Outfall Pipe	LF	2,440	\$50	\$122,000
2401.2	Install 16" Dia. HDPE Wastewater Outfall Pipe Sta. 1+50 - 7+75	LF	630	\$85	\$53,550
2401.3	Install 16" Dia. HDPE Wastewater Outfall Pipe Sta. 7+75 - 25+75	LF	1,810	\$320	\$579,200
2401.5	Furnish and Install Wastewater Outfall Diffuser	LS	All Req'd	\$20,000	\$20,000
2401.6	Connect to Existing 16" Dia. HDPE Outfall Pipe	LS	All Req'd	\$8,000	\$8,000
2402.1	Furnish and Install Wastewater Outfall Concrete Anchor, Type I	EA	170	\$175	\$29,750
2402.2	Furnish and Install Wastewater Outfall Concrete Anchor, Type II	EA	15	\$200	\$3,000
2501.1	12" CPEP Storm Drain Pipe	LF	160	\$50	\$8,000
2501.2	24" CPEP Storm Drain Pipe	LF	110	\$100	\$11,000
2501.3	36" CPEP Storm Drain Pipe	LF	560	\$120	\$67,200
2501.4	Clean Existing Storm Drain Pipe to Upstream Manhole	LS	All Req'd	\$3,000	\$3,000
2501.5	Connect to Existing Storm Drain Pipe	EA	4	\$1,000	\$4,000
2502.1	Storm Drain Manhole Type I	EA	3	\$10,000	\$30,000
2502.2	Storm Drain Manhole Type II	EA	1	\$5,000	\$5,000
2502.3	Storm Drain Oil-Water Separator	EA	1	\$40,000	\$40,000
2502.4	Storm Drain Outfall Structure	LS	All Req'd	\$40,000	\$40,000
2702.1	Construction Surveying	LS	All Req'd	\$200,000	\$200,000
2714.1	Geotextile Fabric	SY	15,000	\$5	\$75,000
2881.1	Dredging and Offshore Disposal	CY	58,500	\$25	\$1,462,500
2881.2	Dredging and Onshore Placement at Parking Area	CY	25,500	\$35	\$892,500
2896.1	Furnish & Install Float Mooring Pile, 16 Inch Dia. X 0.500 Inch Thick	EA	8	\$10,000	\$80,000
2896.2	Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing	EA	113	\$28,500	\$3,220,500
2896.3	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	6,840	\$260	\$1,778,400
2896.4	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	38	\$26,000	\$988,000
2896.5	SPIN FIN®, 30 Inch Dia. Pile	EA	36	\$5,500	\$198,000
2896.6	PDA Testing Assistance	HR	12	\$3,000	\$36,000
2900.1	Contingent Work - Drill Equipment Mobilization	CS	All Req'd	\$50,000	\$50,000
2900.2	Contingent Work - Equipment Rental	CMO	3	\$50,000	\$150,000
2900.3	Contingent Work - Drill Pile	CEA	10	\$30,000	\$300,000
2901.1	Furnish & Install Barrier Waler	LF	604	\$550	\$332,200
2901.2	Furnish & Install Bearing Cap and Connection	EA	19	\$22,500	\$427,500
2901.3	Wave Barrier Amenities - Fenders, Ladders and Navigation Light	LS	All Req'd	\$50,000	\$50,000
ESTIMATED CONSTRUCTION BASE BID PRICE					\$13,593,690
CONTINGENCY (7%)					\$951,558
CONTRACT ADMIN & CONSTRUCTION INSPECTION					\$951,558
COMPENSATORY MITIGATION					\$100,000
PLANNING, ALTERNATIVES ANALYSIS & PUBLIC INVOLVEMENT					\$260,777
ENVIRONMENTAL INVESTIGATIONS, HABITAT STUDIES & PERMITTING					\$417,740
GEOTECHNICAL INVESTIGATIONS					\$878,946
SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS					\$96,893
FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS					\$1,139,841
TOTAL RECOMMENDED PROJECT BUDGET					\$18,391,004
					\$18,391,004
ADDITIVE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT FLOAT WORK					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-A	Mobilization	LS	All Req'd	\$30,555	\$30,555
2060.1-A	Demolition, Salvage and Disposal	LS	All Req'd	\$25,000	\$25,000
2060.3-A	Remove, Salvage and Reinstall Existing Light Fixtures	LS	All Req'd	\$5,000	\$5,000
2205.1-A	Class II Armor Rock	CY	410	\$60	\$24,600
2881.1-A	Dredging and Offshore Disposal	CY	16,300	\$30	\$489,000
2896.9-A	Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	LF	140	\$75	\$10,500
2896.10-A	Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	EA	9	\$4,000	\$36,000
2896.11-A	Field Splice Transient Float Pile, 12.75 inch Dia.	EA	7	\$2,000	\$14,000
2896.12-A	Furnish & Install Cutting Shoe, 12.75 Inch Dia. Pile	EA	7	\$1,000	\$7,000
ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE					\$641,655
CONTINGENCY (5%)					\$32,083
CONTRACT ADMIN & CONSTRUCTION INSPECTION					\$44,916
TOTAL RECOMMENDED PROJECT BUDGET					\$718,654
					\$19,109,657
ADDITIVE ALTERNATE B-ANODES					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-B	Mobilization	LS	All Req'd	\$26,120	\$26,120
2996.1-B	Supply Anode	EA	268	\$475	\$127,300
2996.2-B	Install Anode	EA	268	\$425	\$113,900
2996.3-B	Field Photos, Continuity, Potential Readings & Report	LS	All Req'd	\$20,000	\$20,000
ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE					\$287,320
CONTINGENCY (5%)					\$14,366
CONTRACT ADMIN & CONSTRUCTION INSPECTION					\$20,112
TOTAL RECOMMENDED PROJECT BUDGET					\$321,798
					\$19,431,456
ADDITIVE ALTERNATE C- ADDITIONAL 33' WAVE BARRIER WITH ANODES & DREDGING					
Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-C	Mobilization	LS	All Req'd	\$28,928	\$28,928
2205.1-C	Class II Armor Rock	CY	170	\$60	\$10,200
2881.1-C	Dredging and Offshore Disposal	CY	7,100	\$25	\$177,500
2896.1-C	Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing	EA	6	\$28,500	\$171,000
2896.3-C	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	360	\$260	\$93,600
2896.5-C	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	2	\$26,000	\$52,000
2896.6-C	SPIN FIN®, 30 Inch Dia. Pile	EA	2	\$5,000	\$10,000
2901.1-C	Furnish & Install Barrier Waler	LF	33	\$550	\$18,150
2901.2-C	Furnish & Install Bearing Cap & Connection	EA	1	\$22,500	\$22,500
2996.1-C	Supply Anode	EA	24	\$475	\$11,400
2996.2-C	Install Anode	EA	24	\$425	\$10,200
2996.3-C	Field Photos, Continuity, Potential Readings & Report	LS	All Req'd	\$2,000	\$2,000
ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE B BID PRICE					\$607,478
CONTINGENCY (5%)					\$30,374
CONTRACT ADMIN & CONSTRUCTION INSPECTION					\$42,523
TOTAL RECOMMENDED PROJECT BUDGET					\$680,375
					\$20,111,830

NOTE: Costs for the parking area assume a gravel surface. Future paving, sidewalks, curbs, utilities, landscaping, restrooms and lighting improvements are not included in this estimate.