



HAINES BOROUGH  
PORTAGE COVE HARBOR EXPANSION



FINAL REVIEW COST ESTIMATE  
August 1, 2016

**BASE BID - 600 LF WAVE BARRIER, DREDGING, ROUGH GRADED PARKING AREA AND SEWER LINE RELOCATION**

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Reqd	\$1,266,640	\$1,266,640
1570.1	Erosion and Sediment Control - Upland Measures and Monitoring	LS	All Reqd	\$20,000	\$20,000
1570.2	Silt Containment Boom	LS	All Reqd	\$30,000	\$30,000
2060.1	Demolition, Salvage and Disposal	LS	All Reqd	\$30,000	\$30,000
2060.2	Seaplane Float Removal and Reinstallation	LS	All Reqd	\$5,000	\$5,000
2201.1	Clearing & Grubbing	LS	All Reqd	\$15,000	\$15,000
2202.1	Class A Shot Rock Borrow	CY	7,800	\$35	\$273,000
2202.2	Class B Shot Rock Borrow	CY	6,600	\$28	\$184,800
2204.1	Base Course Grading C-1	CY	460	\$50	\$23,000
2205.1	Class II Armor Rock	CY	3,250	\$70	\$227,500
2205.2	Class III Armor Rock	CY	2,250	\$70	\$157,500
2205.3	Class IV Armor Rock	CY	1,550	\$75	\$116,250
2205.4	Remove and Restore Armor Rock on Rubble Mound Breakwater	LS	All Reqd	\$150,000	\$150,000
2205.5	Breakwater Armor Rock, Class A	CY	700	\$125	\$87,500
2205.6	Breakwater Underlayer Rock, Class B	CY	350	\$125	\$43,750
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 Reqd	\$20,000	\$20,000
2401.6	Connect to Existing 16" Dia. HDPE Outfall Pipe	LS	All Reqd	\$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-Inch CPP Storm Drain Pipe	LF	130	\$50	\$6,500
2501.2	24-Inch CPP Storm Drain Pipe	LF	120	\$100	\$12,000
2501.3	36-Inch CPP Storm Drain Pipe	LF	550	\$120	\$66,000
2501.4	Clean Existing Storm Drain Pipe to Upstream Manhole	LS	All Reqd	\$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	\$35,000	\$35,000
2502.4	Storm Drain Outfall Structure	LS	All Reqd	\$40,000	\$40,000
2702.1	Construction Surveying	LS	All Reqd	\$200,000	\$200,000
2702.1	Reset Survey Monument	EA	1	\$10,000	\$10,000
2714.1	Geotextile Fabric	SY	14,100	\$5	\$70,500
2881.1	Dredging and Offshore Disposal	CY	60,000	\$25	\$1,500,000
2881.2	Dredging and Onshore Placement at Parking Area	CY	25,000	\$35	\$875,000
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 Reqd	\$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 Reqd	\$50,000	\$50,000
2905.1	Remove and Reinstall Navigation Aid Structure	LS	All Reqd	\$20,000	\$20,000
<b>ESTIMATED CONSTRUCTION BASE BID PRICE</b>					<b>\$13,933,040</b>
<b>CONTINGENCY (7%)</b>					<b>\$975,313</b>
<b>CONTRACT ADMIN &amp; CONSTRUCTION INSPECTION</b>					<b>\$975,313</b>
<b>PLANNING, ALTERNATIVES ANALYSIS &amp; PUBLIC INVOLVEMENT</b>					<b>\$260,777</b>
<b>ENVIRONMENTAL INVESTIGATIONS, HABITAT STUDIES &amp; PERMITTING</b>					<b>\$417,740</b>
<b>GEOTECHNICAL INVESTIGATIONS</b>					<b>\$878,946</b>
<b>SITE TOPOGRAPHIC &amp; BATHYMETRIC SURVEYS</b>					<b>\$96,893</b>
<b>FINAL ENGINEERING DESIGN &amp; BID READY CONTRACT DOCUMENTS</b>					<b>\$1,139,841</b>
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$18,677,863</b>

**ADDITIVE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT FLOAT WORK**

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-A	Mobilization	LS	All Reqd	\$30,675	\$30,675
2060.1-A	Demolition, Salvage and Disposal	LS	All Reqd	\$25,000	\$25,000
2060.3-A	Remove, Salvage and Reinstall Existing Light Fixtures	LS	All Reqd	\$10,000	\$10,000
2205.1-A	Class II Armor Rock	CY	400	\$70	\$28,000
2881.1-A	Dredging and Offshore Disposal	CY	16,100	\$30	\$483,000
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
<b>ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE</b>					<b>\$644,175</b>
<b>CONTINGENCY (7%)</b>					<b>\$45,092</b>
<b>CONTRACT ADMIN &amp; CONSTRUCTION INSPECTION</b>					<b>\$45,092</b>
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$734,360</b>

**ADDITIVE ALTERNATE B-ANODES**

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-B	Mobilization	LS	All Reqd	\$36,200	\$36,200
2996.1-B	Supply Anode	EA	380	\$475	\$180,500
2996.2-B	Install Anode	EA	380	\$425	\$161,500
2996.3-B	Field Photos, Continuity, Potential Readings & Report	LS	All Reqd	\$20,000	\$20,000
<b>ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE B BID PRICE</b>					<b>\$398,200</b>
<b>CONTINGENCY (7%)</b>					<b>\$27,874</b>
<b>CONTRACT ADMIN &amp; CONSTRUCTION INSPECTION</b>					<b>\$27,874</b>
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$453,948</b>

**ADDITIVE ALTERNATE C- ADDITIONAL 33' WAVE BARRIER WITH ANODES & DREDGING**

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1-C	Mobilization	LS	All Reqd	\$29,013	\$29,013
2205.1-C	Class II Armor Rock	CY	170	\$70	\$11,900
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 Reqd	\$2,000	\$2,000
<b>ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE</b>					<b>\$609,263</b>
<b>CONTINGENCY (7%)</b>					<b>\$42,648</b>
<b>CONTRACT ADMIN &amp; CONSTRUCTION INSPECTION</b>					<b>\$42,648</b>
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$694,559</b>

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.