



**HAINES BOROUGH
PORTAGE COVE HARBOR EXPANSION
BID SUMMARY
Bid Opening: October 25, 2016**

BASE BID				Engineer's Estimate		Pacific Pile & Marine, LP		Orion Marine	
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$1,298,635	\$1,298,635	\$1,256,000	\$1,256,000	\$1,645,000	\$1,645,000
1570.1	Erosion and Sediment Control	LS	All Req'd	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
1570.2	Silt Containment Boom	LS	All Req'd	\$30,000	\$30,000	\$65,000	\$65,000	\$50,000	\$50,000
2060.1	Demolition, Salvage and Disposal	LS	All Req'd	\$25,000	\$25,000	\$76,000	\$76,000	\$115,000	\$115,000
2060.2	Seaplane Float Removal and Reinstallation	LS	All Req'd	\$5,000	\$5,000	\$4,000	\$4,000	\$15,000	\$15,000
2060.3	Remove, Salvage and Reinstall Transient Float Light Fixtures	LS	All Req'd	\$15,000	\$15,000	\$3,000	\$3,000	\$5,000	\$5,000
2201.1	Clearing and Grubbing	LS	All Req'd	\$10,000	\$10,000	\$74,000	\$74,000	\$40,000	\$40,000
2202.1	Class A Shot Rock Borrow	CY	8,690	\$35	\$304,150	\$35	\$304,150	\$30	\$260,700
2202.2	Class B Shot Rock Borrow	CY	8,390	\$28	\$234,920	\$32	\$268,480	\$30	\$251,700
2204.1	Base Course, Grading C-1	CY	440	\$50	\$22,000	\$83	\$36,520	\$80	\$35,200
2205.1	Class II Armor Rock	CY	3,210	\$70	\$224,700	\$92	\$295,320	\$95	\$304,950
2205.2	Class III Armor Rock	CY	2,210	\$70	\$154,700	\$83	\$183,430	\$95	\$209,950
2205.3	Class IV Armor Rock	CY	1,540	\$75	\$115,500	\$93	\$143,220	\$95	\$146,300
2207.1	Remove and Restore Rock on Rubble Mound Breakwater	LS	All Req'd	\$200,000	\$200,000	\$75,000	\$75,000	\$100,000	\$100,000
2207.2	Breakwater Armor Rock, Type I	CY	700	\$140	\$98,000	\$220	\$154,000	\$300	\$210,000
2207.3	Breakwater Underlayer Rock, Type II	CY	350	\$140	\$49,000	\$125	\$43,750	\$200	\$70,000
2207.4	Remove Existing Navigation Aid Structure	LS	All Req'd	\$5,000	\$5,000	\$7,000	\$7,000	\$5,000	\$5,000
2401.1	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 1+50 to 7+75	LF	625	\$135	\$84,375	\$185	\$115,625	\$200	\$125,000
2401.2	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 7+75 to Diffuser	LF	1,800	\$370	\$666,000	\$325	\$585,000	\$350	\$630,000
2401.3	Furnish and Install Wastewater Outfall Diffuser	LS	All Req'd	\$20,000	\$20,000	\$40,000	\$40,000	\$25,000	\$25,000
2401.4	Connect to Existing 16-Inch Dia. HDPE Outfall Pipe	LS	All Req'd	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
2401.5	Furnish and Install Wastewater Outfall Concrete Anchor, Type I	EA	170	\$200	\$34,000	\$425	\$72,250	\$850	\$144,500
2401.6	Furnish and Install Wastewater Outfall Concrete Anchor, Type II	EA	20	\$225	\$4,500	\$815	\$16,300	\$850	\$17,000
2401.7	Wastewater Outfall Dive Surveys and Videos	LS	All Req'd	\$20,000	\$20,000	\$20,000	\$20,000	\$50,000	\$50,000
2501.1	12-Inch CPP Storm Drain Pipe	LF	170	\$60	\$10,200	\$120	\$20,400	\$150	\$25,500
2501.2	24-Inch CPP Storm Drain Pipe	LF	240	\$100	\$24,000	\$140	\$33,600	\$150	\$36,000
2501.3	36-Inch CPP Storm Drain Pipe	LF	450	\$120	\$54,000	\$180	\$81,000	\$200	\$90,000
2501.4	Clean Existing Storm Drain Pipe to Upstream Manhole	LS	All Req'd	\$5,000	\$5,000	\$15,000	\$15,000	\$10,000	\$10,000
2501.5	Connect to Existing Storm Drain Pipe	EA	4	\$1,000	\$4,000	\$6,000	\$24,000	\$5,000	\$20,000
2502.1	Storm Drain Manhole, Type I	EA	3	\$10,000	\$30,000	\$15,000	\$45,000	\$15,000	\$45,000
2502.2	Storm Drain Manhole, Type II	EA	1	\$5,000	\$5,000	\$12,000	\$12,000	\$10,000	\$10,000
2502.3	Storm Drain Oil-Water Separator	EA	1	\$35,000	\$35,000	\$40,000	\$40,000	\$45,000	\$45,000
2502.4	Storm Drain Outfall Structure	LS	All Req'd	\$40,000	\$40,000	\$55,000	\$55,000	\$50,000	\$50,000
2702.1	Construction Surveying	LS	All Req'd	\$200,000	\$200,000	\$325,000	\$325,000	\$250,000	\$250,000
2702.2	Reset Survey Monument	EA	1	\$5,000	\$5,000	\$7,500	\$7,500	\$5,000	\$5,000
2714.1	Geotextile Fabric	SY	13,240	\$5	\$66,200	\$4.50	\$59,580	\$5	\$66,200
2881.1	Dredging and Disposal	CY	83,500	\$28	\$2,338,000	\$16	\$1,336,000	\$12	\$1,002,000
2881.2	Marine Mammal Work Suspension - Dredging Activity	HR	20	\$2,500	\$50,000	\$1,000	\$20,000	\$750	\$15,000
2896.1	Furnish and Install Mooring Pile, 16 Inch Dia. X 0.500 Inch Thick	EA	8	\$10,000	\$80,000	\$7,000	\$56,000	\$9,500	\$76,000
2896.2	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	113	\$30,000	\$3,390,000	\$25,000	\$2,825,000	\$27,000	\$3,051,000
2896.3	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	6,840	\$260	\$1,778,400	\$182	\$1,244,880	\$170	\$1,162,800
2896.4	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	38	\$22,500	\$855,000	\$17,500	\$665,000	\$22,000	\$836,000
2896.5	Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	EA	9	\$4,000	\$36,000	\$2,400	\$21,600	\$3,500	\$31,500
2896.6	Contingent Work - Deep Obstruction Removal	CS	As Req'd	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
2896.7	SPIN FIN™ Pile Tip	EA	36	\$5,000	\$180,000	\$4,200	\$151,200	\$4,000	\$144,000
2896.8	PDA Testing Assistance	HR	20	\$3,000	\$60,000	\$665	\$13,300	\$1,000	\$20,000
2896.9	Field Splice Owner Furnished Transient Float Pile, 12.75 Inch Dia.	EA	9	\$1,500	\$13,500	\$785	\$7,065	\$1,000	\$9,000
2896.10	Furnish and Install Open Cutting Shoe, 12.75 Inch Dia. Pile	EA	1	\$1,500	\$1,500	\$385	\$385	\$1,000	\$1,000
2896.11	Field Splice, 24 Inch or 30 Inch Dia. Pile	EA	6	\$3,500	\$21,000	\$2,700	\$16,200	\$5,500	\$33,000
2896.12	Marine Mammal Work Suspension - Pile Activity	HR	20	\$3,000	\$60,000	\$750	\$15,000	\$1,000	\$20,000
5120.1	Furnish and Install Wave Barrier Waler	LF	604	\$550	\$332,200	\$486	\$293,544	\$1,000	\$604,000
5120.2	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	19	\$22,500	\$427,500	\$15,000	\$285,000	\$22,000	\$418,000
5120.3	Wave Barrier Amenities - Fenders, Ladders, Navigation Aid Mount & Owner-Furnished Tower	LS	All Req'd	\$38,000	\$38,000	\$22,000	\$22,000	\$80,000	\$80,000
TOTAL BASE BID PRICE					\$14,284,980		\$12,053,299		\$13,136,300
ADDITIVE ALTERNATE A -DREDGING EXISTING INNER HARBOR BASIN									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-A	Mobilization	LS	All Req'd	\$26,755	\$26,755	\$35,000	\$35,000	\$75,000	\$75,000
2060.1-A	Demolition, Salvage and Disposal	LS	All Req'd	\$15,000	\$15,000	\$10,000	\$10,000	\$10,000	\$10,000
2205.1-A	Class II Armor Rock	CY	370	\$70	\$25,900	\$92	\$34,040	\$100	\$37,000
2702.1-A	Construction Surveying	LS	All Req'd	\$25,000	\$25,000	\$33,500	\$33,500	\$30,000	\$30,000
2881.1-A	Dredging and Disposal	CY	16,140	\$30	\$484,200	\$15.50	\$250,170	\$10	\$161,400
TOTAL ADDITIVE ALTERNATE A PRICE					\$576,855		\$362,710		\$313,400
ADDITIVE ALTERNATE B -PILE ANODES									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-B	Mobilization	LS	All Req'd	\$36,200	\$36,200	\$20,000	\$20,000	\$30,000	\$30,000
2996.1-B	Supply Anode	EA	380	\$475	\$180,500	\$475	\$180,500	\$450	\$171,000
2996.2-B	Install Anode	EA	380	\$425	\$161,500	\$516	\$196,080	\$550	\$209,000
2996.3-B	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$20,000	\$20,000	\$4,800	\$4,800	\$10,000	\$10,000
TOTAL ADDITIVE ALTERNATE B PRICE					\$398,200		\$401,380		\$420,000
ADDITIVE ALTERNATE C - ADDITIONAL WAVE BARRIER, PILE ANODES & DREDGING									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-C	Mobilization	LS	All Req'd	\$30,531	\$30,531	\$7,500	\$7,500	\$10,000	\$10,000
2205.1-C	Class II Armor Rock	CY	160	\$70	\$11,200	\$125	\$20,000	\$100	\$16,000
2702.1-C	Construction Surveying	LS	All Req'd	\$10,000	\$10,000	\$5,000	\$5,000	\$10,000	\$10,000
2881.1-C	Dredging and Disposal	CY	7,020	\$28	\$196,560	\$10	\$70,200	\$10	\$70,200
2896.2-C	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	6	\$30,000	\$180,000	\$21,000	\$126,000	\$22,000	\$132,000
2896.3-C	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	360	\$260	\$93,600	\$182	\$65,520	\$150	\$54,000
2896.4-C	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	2	\$22,500	\$45,000	\$14,000	\$28,000	\$20,000	\$40,000
2896.7-C	SPIN FIN™ Pile Tip	EA	2	\$5,000	\$10,000	\$4,350	\$8,700	\$4,000	\$8,000
2996.1-C	Supply Anode	EA	24	\$475	\$11,400	\$475	\$11,400	\$450	\$10,800
2996.2-C	Install Anode	EA	24	\$425	\$10,200	\$516	\$12,384	\$550	\$13,200
2996.3-C	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$2,000	\$2,000	\$500	\$500	\$5,000	\$5,000
5120.1-C	Furnish and Install Wave Barrier Waler	LF	33	\$550	\$18,150	\$465	\$15,345	\$1,000	\$33,000
5120.2-C	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	1	\$22,500	\$22,500	\$15,000	\$15,000	\$20,000	\$20,000
TOTAL ADDITIVE ALTERNATE C PRICE					\$641,141		\$385,549		\$422,200



**HAINES BOROUGH
PORTAGE COVE HARBOR EXPANSION
BID SUMMARY
Bid Opening: October 25, 2016**

BASE BID				Engineer's Estimate		Cruz Construction, Inc.		Turnagain Marine Const.	
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$1,298,635	\$1,298,635	\$1,000,000	\$1,000,000	\$1,959,600	\$1,959,600
1570.1	Erosion and Sediment Control	LS	All Req'd	\$15,000	\$15,000	\$47,000	\$47,000	\$20,900	\$20,900
1570.2	Silt Containment Boom	LS	All Req'd	\$30,000	\$30,000	\$51,500	\$51,500	\$39,100	\$39,100
2060.1	Demolition, Salvage and Disposal	LS	All Req'd	\$25,000	\$25,000	\$135,000	\$135,000	\$112,300	\$112,300
2060.2	Seaplane Float Removal and Reinstallation	LS	All Req'd	\$5,000	\$5,000	\$3,250	\$3,250	\$10,200	\$10,200
2060.3	Remove, Salvage and Reinstall Transient Float Light Fixtures	LS	All Req'd	\$15,000	\$15,000	\$7,000	\$7,000	\$49,700	\$49,700
2201.1	Clearing and Grubbing	LS	All Req'd	\$10,000	\$10,000	\$45,000	\$45,000	\$52,700	\$52,700
2202.1	Class A Shot Rock Borrow	CY	8,690	\$35	\$304,150	\$27	\$234,630	\$30	\$260,700
2202.2	Class B Shot Rock Borrow	CY	8,390	\$28	\$234,920	\$28	\$234,920	\$30	\$251,700
2204.1	Base Course, Grading C-1	CY	440	\$50	\$22,000	\$72	\$31,680	\$80	\$35,200
2205.1	Class II Armor Rock	CY	3,210	\$70	\$224,700	\$75	\$240,750	\$90	\$288,900
2205.2	Class III Armor Rock	CY	2,210	\$70	\$154,700	\$76	\$167,960	\$80	\$176,800
2205.3	Class IV Armor Rock	CY	1,540	\$75	\$115,500	\$85	\$130,900	\$90	\$138,600
2207.1	Remove and Restore Rock on Rubble Mound Breakwater	LS	All Req'd	\$200,000	\$200,000	\$190,000	\$190,000	\$45,300	\$45,300
2207.2	Breakwater Armor Rock, Type I	CY	700	\$140	\$98,000	\$300	\$210,000	\$600	\$420,000
2207.3	Breakwater Underlayer Rock, Type II	CY	350	\$140	\$49,000	\$200	\$70,000	\$600	\$210,000
2207.4	Remove Existing Navigation Aid Structure	LS	All Req'd	\$5,000	\$5,000	\$4,000	\$4,000	\$1,300	\$1,300
2401.1	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 1+50 to 7+75	LF	625	\$135	\$84,375	\$162	\$101,250	\$180	\$112,500
2401.2	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 7+75 to Diffuser	LF	1,800	\$370	\$666,000	\$500	\$900,000	\$300	\$540,000
2401.3	Furnish and Install Wastewater Outfall Diffuser	LS	All Req'd	\$20,000	\$20,000	\$53,500	\$53,500	\$5,500	\$5,500
2401.4	Connect to Existing 16-Inch Dia. HDPE Outfall Pipe	LS	All Req'd	\$10,000	\$10,000	\$19,000	\$19,000	\$7,900	\$7,900
2401.5	Furnish and Install Wastewater Outfall Concrete Anchor, Type I	EA	170	\$200	\$34,000	\$500	\$85,000	\$380	\$64,600
2401.6	Furnish and Install Wastewater Outfall Concrete Anchor, Type II	EA	20	\$225	\$4,500	\$925	\$18,500	\$460	\$9,200
2401.7	Wastewater Outfall Dive Surveys and Videos	LS	All Req'd	\$20,000	\$20,000	\$97,500	\$97,500	\$31,300	\$31,300
2501.1	12-Inch CPP Storm Drain Pipe	LF	170	\$60	\$10,200	\$105	\$17,850	\$120	\$20,400
2501.2	24-Inch CPP Storm Drain Pipe	LF	240	\$100	\$24,000	\$125	\$30,000	\$180	\$43,200
2501.3	36-Inch CPP Storm Drain Pipe	LF	450	\$120	\$54,000	\$160	\$72,000	\$220	\$99,000
2501.4	Clean Existing Storm Drain Pipe to Upstream Manhole	LS	All Req'd	\$5,000	\$5,000	\$12,500	\$12,500	\$18,400	\$18,400
2501.5	Connect to Existing Storm Drain Pipe	EA	4	\$1,000	\$4,000	\$4,000	\$16,000	\$4,300	\$17,200
2502.1	Storm Drain Manhole, Type I	EA	3	\$10,000	\$30,000	\$12,000	\$36,000	\$16,800	\$50,400
2502.2	Storm Drain Manhole, Type II	EA	1	\$5,000	\$5,000	\$10,000	\$10,000	\$13,100	\$13,100
2502.3	Storm Drain Oil-Water Separator	EA	1	\$35,000	\$35,000	\$50,000	\$50,000	\$64,800	\$64,800
2502.4	Storm Drain Outfall Structure	LS	All Req'd	\$40,000	\$40,000	\$75,000	\$75,000	\$76,500	\$76,500
2702.1	Construction Surveying	LS	All Req'd	\$200,000	\$200,000	\$165,000	\$165,000	\$752,800	\$752,800
2702.2	Reset Survey Monument	EA	1	\$5,000	\$5,000	\$2,600	\$2,600	\$6,400	\$6,400
2714.1	Geotextile Fabric	SY	13,240	\$5	\$66,200	\$3.50	\$46,340	\$5	\$66,200
2881.1	Dredging and Disposal	CY	83,500	\$28	\$2,338,000	\$26	\$2,171,000	\$23	\$1,920,500
2881.2	Marine Mammal Work Suspension - Dredging Activity	HR	20	\$2,500	\$50,000	\$950	\$19,000	\$2,300	\$46,000
2896.1	Furnish and Install Mooring Pile, 16 Inch Dia. X 0.500 Inch Thick	EA	8	\$10,000	\$80,000	\$13,500	\$108,000	\$8,100	\$64,800
2896.2	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	113	\$30,000	\$3,390,000	\$26,500	\$2,994,500	\$23,800	\$2,689,400
2896.3	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	6,840	\$260	\$1,778,400	\$150	\$1,026,000	\$170	\$1,162,800
2896.4	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	38	\$22,500	\$855,000	\$28,000	\$1,064,000	\$24,500	\$931,000
2896.5	Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	EA	9	\$4,000	\$36,000	\$5,700	\$51,300	\$3,400	\$30,600
2896.6	Contingent Work - Deep Obstruction Removal	CS	As Req'd	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
2896.7	SPIN FIN™ Pile Tip	EA	36	\$5,000	\$180,000	\$3,500	\$126,000	\$5,400	\$194,400
2896.8	PDA Testing Assistance	HR	20	\$3,000	\$60,000	\$500	\$10,000	\$2,500	\$50,000
2896.9	Field Splice Owner Furnished Transient Float Pile, 12.75 Inch Dia.	EA	9	\$1,500	\$13,500	\$500	\$4,500	\$1,300	\$11,700
2896.10	Furnish and Install Open Cutting Shoe, 12.75 Inch Dia. Pile	EA	1	\$1,500	\$1,500	\$1,000	\$1,000	\$1,400	\$1,400
2896.11	Field Splice, 24 Inch or 30 Inch Dia. Pile	EA	6	\$3,500	\$21,000	\$5,500	\$33,000	\$6,400	\$38,400
2896.12	Marine Mammal Work Suspension - Pile Activity	HR	20	\$3,000	\$60,000	\$1,010	\$20,200	\$2,500	\$50,000
5120.1	Furnish and Install Wave Barrier Waler	LF	604	\$550	\$332,200	\$535	\$323,140	\$700	\$422,800
5120.2	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	19	\$22,500	\$427,500	\$24,000	\$456,000	\$18,300	\$347,700
5120.3	Wave Barrier Amenities - Fenders, Ladders, Navigation Aid Mount & Owner-Furnished Tower	LS	All Req'd	\$38,000	\$38,000	\$50,000	\$50,000	\$24,500	\$24,500
TOTAL BASE BID PRICE					\$14,284,980		\$13,569,270		\$14,558,400
ADDITIVE ALTERNATE A -DREDGING EXISTING INNER HARBOR BASIN									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-A	Mobilization	LS	All Req'd	\$26,755	\$26,755	\$3,000	\$3,000	\$71,800	\$71,800
2060.1-A	Demolition, Salvage and Disposal	LS	All Req'd	\$15,000	\$15,000	\$17,000	\$17,000	\$38,600	\$38,600
2205.1-A	Class II Armor Rock	CY	370	\$70	\$25,900	\$78	\$28,860	\$90	\$33,300
2702.1-A	Construction Surveying	LS	All Req'd	\$25,000	\$25,000	\$24,000	\$24,000	\$17,000	\$17,000
2881.1-A	Dredging and Disposal	CY	16,140	\$30	\$484,200	\$20	\$322,800	\$20	\$322,800
TOTAL ADDITIVE ALTERNATE A PRICE					\$576,855		\$395,660		\$483,500
ADDITIVE ALTERNATE B -PILE ANODES									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-B	Mobilization	LS	All Req'd	\$36,200	\$36,200	\$11,500	\$11,500	\$34,400	\$34,400
2996.1-B	Supply Anode	EA	380	\$475	\$180,500	\$600	\$228,000	\$500	\$190,000
2996.2-B	Install Anode	EA	380	\$425	\$161,500	\$450	\$171,000	\$480	\$182,400
2996.3-B	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$20,000	\$20,000	\$6,500	\$6,500	\$6,100	\$6,100
TOTAL ADDITIVE ALTERNATE B PRICE					\$398,200		\$417,000		\$412,900
ADDITIVE ALTERNATE C - ADDITIONAL WAVE BARRIER, PILE ANODES & DREDGING									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-C	Mobilization	LS	All Req'd	\$30,531	\$30,531	\$4,000	\$4,000	\$1,200	\$1,200
2205.1-C	Class II Armor Rock	CY	160	\$70	\$11,200	\$90	\$14,400	\$100	\$16,000
2702.1-C	Construction Surveying	LS	All Req'd	\$10,000	\$10,000	\$3,000	\$3,000	\$5,700	\$5,700
2881.1-C	Dredging and Disposal	CY	7,020	\$28	\$196,560	\$20	\$140,400	\$20	\$140,400
2896.2-C	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	6	\$30,000	\$180,000	\$27,000	\$162,000	\$22,800	\$136,800
2896.3-C	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	360	\$260	\$93,600	\$150	\$54,000	\$170	\$61,200
2896.4-C	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	2	\$22,500	\$45,000	\$28,500	\$57,000	\$21,300	\$42,600
2896.7-C	SPIN FIN™ Pile Tip	EA	2	\$5,000	\$10,000	\$3,800	\$7,600	\$5,400	\$10,800
2996.1-C	Supply Anode	EA	24	\$475	\$11,400	\$600	\$14,400	\$500	\$12,000
2996.2-C	Install Anode	EA	24	\$425	\$10,200	\$600	\$14,400	\$480	\$11,520
2996.3-C	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$2,000	\$2,000	\$1,600	\$1,600	\$600	\$600
5120.1-C	Furnish and Install Wave Barrier Waler	LF	33	\$550	\$18,150	\$550	\$18,150	\$480	\$15,840
5120.2-C	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	1	\$22,500	\$22,500	\$25,000	\$25,000	\$20,100	\$20,100
TOTAL ADDITIVE ALTERNATE C PRICE					\$641,141		\$515,950		\$474,760



**HAINES BOROUGH
PORTAGE COVE HARBOR EXPANSION
BID SUMMARY
Bid Opening: October 25, 2016**

BASE BID				Engineer's Estimate		Kiewit Infra. West Co.		Manson Const. Co.	
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$1,298,635	\$1,298,635	\$2,165,840	\$2,165,840	\$2,000,000	\$2,000,000
1570.1	Erosion and Sediment Control	LS	All Req'd	\$15,000	\$15,000	\$100,000	\$100,000	\$25,000	\$25,000
1570.2	Silt Containment Boom	LS	All Req'd	\$30,000	\$30,000	\$100,000	\$100,000	\$50,000	\$50,000
2060.1	Demolition, Salvage and Disposal	LS	All Req'd	\$25,000	\$25,000	\$150,000	\$150,000	\$250,000	\$250,000
2060.2	Seaplane Float Removal and Reinstallation	LS	All Req'd	\$5,000	\$5,000	\$10,000	\$10,000	\$20,000	\$20,000
2060.3	Remove, Salvage and Reinstall Transient Float Light Fixtures	LS	All Req'd	\$15,000	\$15,000	\$6,300	\$6,300	\$20,000	\$20,000
2201.1	Clearing and Grubbing	LS	All Req'd	\$10,000	\$10,000	\$100,000	\$100,000	\$50,000	\$50,000
2202.1	Class A Shot Rock Borrow	CY	8,690	\$35	\$304,150	\$75	\$651,750	\$26	\$225,940
2202.2	Class B Shot Rock Borrow	CY	8,390	\$28	\$234,920	\$45	\$377,550	\$26	\$218,140
2204.1	Base Course, Grading C-1	CY	440	\$50	\$22,000	\$100	\$44,000	\$65	\$28,600
2205.1	Class II Armor Rock	CY	3,210	\$70	\$224,700	\$200	\$642,000	\$100	\$321,000
2205.2	Class III Armor Rock	CY	2,210	\$70	\$154,700	\$80	\$176,800	\$72	\$159,120
2205.3	Class IV Armor Rock	CY	1,540	\$75	\$115,500	\$90	\$138,600	\$85	\$130,900
2207.1	Remove and Restore Rock on Rubble Mound Breakwater	LS	All Req'd	\$200,000	\$200,000	\$50,000	\$50,000	\$65,000	\$65,000
2207.2	Breakwater Armor Rock, Type I	CY	700	\$140	\$98,000	\$400	\$280,000	\$210	\$147,000
2207.3	Breakwater Underlayer Rock, Type II	CY	350	\$140	\$49,000	\$200	\$70,000	\$155	\$54,250
2207.4	Remove Existing Navigation Aid Structure	LS	All Req'd	\$5,000	\$5,000	\$10,000	\$10,000	\$7,500	\$7,500
2401.1	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 1+50 to 7+75	LF	625	\$135	\$84,375	\$250	\$156,250	\$170	\$106,250
2401.2	Furnish and Install 16-Inch Dia. HDPE Wastewater Outfall Pipe Sta. 7+75 to Diffuser	LF	1,800	\$370	\$666,000	\$700	\$1,260,000	\$400	\$720,000
2401.3	Furnish and Install Wastewater Outfall Diffuser	LS	All Req'd	\$20,000	\$20,000	\$50,000	\$50,000	\$60,000	\$60,000
2401.4	Connect to Existing 16-Inch Dia. HDPE Outfall Pipe	LS	All Req'd	\$10,000	\$10,000	\$10,000	\$10,000	\$20,000	\$20,000
2401.5	Furnish and Install Wastewater Outfall Concrete Anchor, Type I	EA	170	\$200	\$34,000	\$2,000	\$340,000	\$590	\$100,300
2401.6	Furnish and Install Wastewater Outfall Concrete Anchor, Type II	EA	20	\$225	\$4,500	\$1,800	\$36,000	\$1,250	\$25,000
2401.7	Wastewater Outfall Dive Surveys and Videos	LS	All Req'd	\$20,000	\$20,000	\$150,000	\$150,000	\$45,000	\$45,000
2501.1	12-Inch CPP Storm Drain Pipe	LF	170	\$60	\$10,200	\$150	\$25,500	\$105	\$17,850
2501.2	24-Inch CPP Storm Drain Pipe	LF	240	\$100	\$24,000	\$220	\$52,800	\$155	\$37,200
2501.3	36-Inch CPP Storm Drain Pipe	LF	450	\$120	\$54,000	\$300	\$135,000	\$190	\$85,500
2501.4	Clean Existing Storm Drain Pipe to Upstream Manhole	LS	All Req'd	\$5,000	\$5,000	\$20,000	\$20,000	\$11,200	\$11,200
2501.5	Connect to Existing Storm Drain Pipe	EA	4	\$1,000	\$4,000	\$2,500	\$10,000	\$3,000	\$12,000
2502.1	Storm Drain Manhole, Type I	EA	3	\$10,000	\$30,000	\$9,000	\$27,000	\$14,500	\$43,500
2502.2	Storm Drain Manhole, Type II	EA	1	\$5,000	\$5,000	\$7,000	\$7,000	\$11,200	\$11,200
2502.3	Storm Drain Oil-Water Separator	EA	1	\$35,000	\$35,000	\$65,000	\$65,000	\$60,000	\$60,000
2502.4	Storm Drain Outfall Structure	LS	All Req'd	\$40,000	\$40,000	\$60,000	\$60,000	\$70,000	\$70,000
2702.1	Construction Surveying	LS	All Req'd	\$200,000	\$200,000	\$250,000	\$250,000	\$220,000	\$220,000
2702.2	Reset Survey Monument	EA	1	\$5,000	\$5,000	\$5,000	\$5,000	\$6,000	\$6,000
2714.1	Geotextile Fabric	SY	13,240	\$5	\$66,200	\$2.30	\$30,452	\$4.50	\$59,580
2881.1	Dredging and Disposal	CY	83,500	\$28	\$2,338,000	\$11	\$918,500	\$13	\$1,085,500
2881.2	Marine Mammal Work Suspension - Dredging Activity	HR	20	\$2,500	\$50,000	\$3,000	\$60,000	\$2,000	\$40,000
2896.1	Furnish and Install Mooring Pile, 16 Inch Dia. X 0.500 Inch Thick	EA	8	\$10,000	\$80,000	\$18,000	\$144,000	\$14,000	\$112,000
2896.2	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	113	\$30,000	\$3,390,000	\$25,000	\$2,825,000	\$32,000	\$3,616,000
2896.3	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	6,840	\$260	\$1,778,400	\$170	\$1,162,800	\$210	\$1,436,400
2896.4	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	38	\$22,500	\$855,000	\$25,000	\$950,000	\$50,000	\$1,900,000
2896.5	Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	EA	9	\$4,000	\$36,000	\$11,100	\$99,900	\$4,300	\$38,700
2896.6	Contingent Work - Deep Obstruction Removal	CS	As Req'd	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
2896.7	SPIN FIN™ Pile Tip	EA	36	\$5,000	\$180,000	\$1,100	\$39,600	\$3,300	\$118,800
2896.8	PDA Testing Assistance	HR	20	\$3,000	\$60,000	\$2,500	\$50,000	\$3,200	\$64,000
2896.9	Field Splice Owner Furnished Transient Float Pile, 12.75 Inch Dia.	EA	9	\$1,500	\$13,500	\$4,000	\$36,000	\$6,000	\$54,000
2896.10	Furnish and Install Open Cutting Shoe, 12.75 Inch Dia. Pile	EA	1	\$1,500	\$1,500	\$5,000	\$5,000	\$2,400	\$2,400
2896.11	Field Splice, 24 Inch or 30 Inch Dia. Pile	EA	6	\$3,500	\$21,000	\$20,000	\$120,000	\$12,500	\$75,000
2896.12	Marine Mammal Work Suspension - Pile Activity	HR	20	\$3,000	\$60,000	\$3,500	\$70,000	\$3,200	\$64,000
5120.1	Furnish and Install Wave Barrier Waler	LF	604	\$550	\$332,200	\$1,300	\$785,200	\$1,500	\$906,000
5120.2	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	19	\$22,500	\$427,500	\$22,000	\$418,000	\$22,500	\$427,500
5120.3	Wave Barrier Amenities - Fenders, Ladders, Navigation Aid Mount & Owner-Furnished Tower	LS	All Req'd	\$38,000	\$38,000	\$40,000	\$40,000	\$36,000	\$36,000
TOTAL BASE BID PRICE					\$14,284,980		\$15,986,842		\$15,959,330
ADDITIVE ALTERNATE A -DREDGING EXISTING INNER HARBOR BASIN									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-A	Mobilization	LS	All Req'd	\$26,755	\$26,755	\$595,000	\$595,000	\$135,000	\$135,000
2060.1-A	Demolition, Salvage and Disposal	LS	All Req'd	\$15,000	\$15,000	\$20,000	\$20,000	\$11,000	\$11,000
2205.1-A	Class II Armor Rock	CY	370	\$70	\$25,900	\$200	\$74,000	\$105	\$38,850
2702.1-A	Construction Surveying	LS	All Req'd	\$25,000	\$25,000	\$50,000	\$50,000	\$26,000	\$26,000
2881.1-A	Dredging and Disposal	CY	16,140	\$30	\$484,200	\$22	\$355,080	\$50	\$807,000
TOTAL ADDITIVE ALTERNATE A PRICE					\$576,855		\$1,094,080		\$1,017,850
ADDITIVE ALTERNATE B -PILE ANODES									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-B	Mobilization	LS	All Req'd	\$36,200	\$36,200	\$1,000	\$1,000	\$42,200	\$42,200
2996.1-B	Supply Anode	EA	380	\$475	\$180,500	\$404	\$153,520	\$400	\$152,000
2996.2-B	Install Anode	EA	380	\$425	\$161,500	\$440	\$167,200	\$725	\$275,500
2996.3-B	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$20,000	\$20,000	\$50,000	\$50,000	\$1,200	\$1,200
TOTAL ADDITIVE ALTERNATE B PRICE					\$398,200		\$371,720		\$470,900
ADDITIVE ALTERNATE C - ADDITIONAL WAVE BARRIER, PILE ANODES & DREDGING									
Item	Item Description	Units	Quantity	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1505.1-C	Mobilization	LS	All Req'd	\$30,531	\$30,531	\$1,000	\$1,000	\$9,500	\$9,500
2205.1-C	Class II Armor Rock	CY	160	\$70	\$11,200	\$200	\$32,000	\$130	\$20,800
2702.1-C	Construction Surveying	LS	All Req'd	\$10,000	\$10,000	\$1,000	\$1,000	\$1,000	\$1,000
2881.1-C	Dredging and Disposal	CY	7,020	\$28	\$196,560	\$11	\$77,220	\$8.30	\$58,266
2896.2-C	Furnish and Install Wave Barrier Pile w/Sheetpile Wings, 24 Inch Dia. X 0.500 Inch Thick	EA	6	\$30,000	\$180,000	\$23,000	\$138,000	\$26,500	\$159,000
2896.3-C	Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	LF	360	\$260	\$93,600	\$170	\$61,200	\$150	\$54,000
2896.4-C	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	2	\$22,500	\$45,000	\$20,000	\$40,000	\$45,000	\$90,000
2896.7-C	SPIN FIN™ Pile Tip	EA	2	\$5,000	\$10,000	\$1,100	\$2,200	\$3,300	\$6,600
2996.1-C	Supply Anode	EA	24	\$475	\$11,400	\$404	\$9,696	\$400	\$9,600
2996.2-C	Install Anode	EA	24	\$425	\$10,200	\$440	\$10,560	\$700	\$16,800
2996.3-C	Field Photos, Continuity, Potential Readings and Report	LS	All Req'd	\$2,000	\$2,000	\$5,000	\$5,000	\$500	\$500
5120.1-C	Furnish and Install Wave Barrier Waler	LF	33	\$550	\$18,150	\$1,300	\$42,900	\$1,300	\$42,900
5120.2-C	Furnish and Install Wave Barrier Bearing Cap and Connection	EA	1	\$22,500	\$22,500	\$24,000	\$24,000	\$20,000	\$20,000
TOTAL ADDITIVE ALTERNATE C PRICE					\$641,141		\$444,776		\$488,966