

HAINES BOROUGH PORTAGE COVE HARBOR EXPANSION



FINAL REVIEW COST ESTIMATE August 1, 2016

August 1, 2016

1505.1 1570.1 1570.2	Item Description	Units	Quantity	Unit Cost	Amount	
570.2	Mobilization	LS	All Reqd	\$1,266,640	\$1,266,640	
	Erosion and Sediment Control - Upland Measures and Monitoring Silt Containment Boom	LS LS	All Reqd All Reqd	\$20,000 \$30,000	\$20,000 \$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 2202.2	Class A Shot Rock Borrow Class B Shot Rock Borrow	CY CY	7,800 6,600	\$35 \$28	\$273,000 \$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 CY	All Reqd 700	\$150,000 \$125	\$150,000 \$27,500	
2205.5 2205.6	Breakwater Armor Rock, Class A Breakwater Underlayer Rock, Class B	CY	350	\$125 \$125	\$87,500 \$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 LS	All Reqd	\$20,000 \$8,000	\$20,000 \$8,000	
2401.6 2402.1	Connect to Existing 16" Dia. HDPE Outfall Pipe Furnish and Install Wastewater Outfall Concrete Anchor, Type I	EA	All Reqd 170	\$175	\$0,000 \$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 2501.5	Clean Existing Storm Drain Pipe to Upstream Manhole Connect to Existing Storm Drain Pipe	LS EA	All Reqd 4	\$3,000 \$1,000	\$3,000 \$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 2702.1	Construction Surveying Reset Survey Monument	LS EA	All Reqd 1	\$200,000 \$10,000	\$200,000 \$10,000	
2702.1	Geotextile Fabric	EA SY	14,100	\$10,000 \$5	\$10,000 \$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 Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA LF	113	\$28,500 \$260	\$3,220,500 \$1,778,400	
2896.3 2896.4	Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	EA	6,840 38	\$260 \$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 CEA	3 10	\$50,000 \$30,000	\$150,000 \$300,000	
2900.3 2901.1	Contingent Work - Drill Pile Furnish & Install Barrier Waler	LF	604	\$30,000 \$550	\$300,000 \$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	
	ESTIMATED CONSTRUCTION BASE BID PRICE				\$13,933,040	
	CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION				\$975,313 \$975,313	
	PLANNING, ALTERNATIVES ANALYSIS & PUBLIC INVOLVEMENT				\$260,777	
	THE WAR DO NOT THE AT THE WAY DO NOT				6417.740	
	ENVIRONMENTAL INVESTIGATIONS, HABITAT STUDIES & PERMITTING				\$417,740	
	GEOTECHNICAL INVESTIGATIONS				\$878,946	
	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS				\$878,946 \$96,893	
	GEOTECHNICAL INVESTIGATIONS				\$878,946	\$18,6
	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS				\$878,946 \$96,893 \$1,139,841	\$18,6
_	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET //E ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F				\$878,946 \$96,893 \$1,139,841 \$18,677,863	\$18,6
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Item 1505.1-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET //E ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F			Unit Cost \$30,675 \$25,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863	\$18,6
Item 1505.1-A 2060.1-A 2060.3-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures	Units LS LS LS	Quantity All Reqd All Reqd All Reqd	\$30,675 \$25,000 \$10,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000	\$18,6
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock	Units LS LS LS CY	Quantity All Reqd All Reqd All Reqd 400	\$30,675 \$25,000 \$10,000 \$70	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000	\$18,6
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures	Units LS LS LS	Quantity All Reqd All Reqd All Reqd	\$30,675 \$25,000 \$10,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000	\$18,6
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	Units LS LS LS CY CY LF EA	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000	\$18,6
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Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 2896.10-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick	Units I.S I.S I.S CY CY LF EA EA	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000 \$14,000	\$18,6
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Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 8896.10-A 8896.12-A DDITIV Item 1505.1-B 2996.1-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT FITTER THE TRANSIENT FOR THE TRANSIES AND TRANSIES FOR THE TRANS	Units LS LS LS CY CY LF EA EA EA EA Units LS EA	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 Value of the properties of the pro	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500	
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 22881.1-A 22896.9-A 2896.10-A 2896.11-A 2896.11-A 2896.11-A 2896.11-A 2896.11-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT FOR THE METERNATE A DESCRIPTION Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description	Units LS LS LS CY CY LF EA EA EA EA	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 V Quantity All Reqd	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount	
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 896.10-A 896.11-A 2896.12-A DDITIV Item 1505.1-B 2996.2-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode	Units LS LS LS CY CY LF EA EA EA Units LS EA EA	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 Value of the properties of the pro	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$14,000 \$7,000 \$443,000 \$7,000 \$444,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500	
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 896.10-A 896.12-A DDITIV Item 1505.1-B 2996.2-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 inch Dia. Furnish & Install Cutting Shoe, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%)	Units LS LS LS CY CY LF EA EA EA Units LS EA EA	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 Value of the properties of the pro	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874	
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 896.10-A 896.12-A DDITIV Item 1505.1-B 2996.2-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 inch Dia. Field Splice Transient Float Pile, 12.75 inch Dia. Furnish & Install Cutting Shoe, 12.75 inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION	Units LS LS LS CY CY LF EA EA EA Units LS EA EA	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 Value of the properties of the pro	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$443,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200	\$19,4
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 896.10-A 896.11-A 896.12-A DDITIV Item 1505.1-B 22996.3-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET	Units LS LS LS CY CY LF EA EA EA LS LS EA LS	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 All Reqd 380 All Reqd	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$29,000 \$27,874 \$27,874	\$19,4
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 8896.10-A 8896.11-A 8896.11-A 1505.1-B 2996.3-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET	Units LS LS LS CY CY LF EA EA EA LS LS ES EA EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 All Reqd 380 All Reqd	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost \$36,200 \$475 \$425 \$20,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874	\$19,4
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 8896.10-A 8896.11-A 8896.12-A DDITIV Item 1505.1-B 2996.1-B 2996.3-B	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET	Units LS LS LS CY CY LF EA EA EA LS LS EA LS	Quantity All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 All Reqd 380 All Reqd	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$29,000 \$27,874 \$27,874	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description	Units LS LS LS CY CY LF EA EA EA LS LS CY CY LF EA EA EA EA EA EA LS CS & DRED Units LS CY Units LS CY CY LF EA EA EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd GING Quantity All Reqd 170	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost \$36,200 \$475 \$425 \$20,000 **Unit Cost	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$443,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount	\$19,4
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 1896.10-A 1896.12-A 2996.3-B 2996.3-B 2001TIV Item 1505.1-B 2006.3-B 2005.1-C 2205.1-C 22881.1-C 2881.1-C 2005.1-A 2005.1-C 2205.1-C 22881.1-C 2006.1-A 2006.1-B 200	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET	Units LS LS LS CY CY LF EA EA EA LS Units LS EA LS CS & DRED Units LS CY CY CY LF EA EA CO CY CY LF EA EA EA EA EA EA EA CO	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd GING Quantity All Reqd 170 7,100	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 Unit Cost \$36,200 \$475 \$425 \$20,000 Unit Cost	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$443,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500	\$19,4
Item 1505.1-A 2060.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 896.10-A 896.11-A 896.12-A	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description	Units LS LS LS CY CY LF EA EA EA LS LS CY CY LF EA EA EA EA EA EA LS CS & DRED Units LS CY Units LS CY CY LF EA EA EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd GING Quantity All Reqd 170	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost \$36,200 \$475 \$425 \$20,000 **Unit Cost	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$443,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish & Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick	Units LS LS CY CY LF EA EA EA LS CS ES & DRED Units LS CY CY LF EA LS LS EA LS LS EA LS EA LS EA LS EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd All Reqd 170 7,100 6 360 2	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost \$36,200 \$475 \$425 \$20,000 **Unit Cost \$29,013 \$70 \$25 \$28,500	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$10,500 \$10,500 \$10,500 \$20,000 \$245,092 \$734,360 Amount \$36,200 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$10,500 \$110,500 \$20,000 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500 \$110,500	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Purnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. X 0.750 Inch Thick	Units LS LS CY CY LF EA EA EA LS CY CY LF EA EA LS CY CY LF EA EA LS CY CY LF EA EA EA EA EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 All Reqd 170 7,100 6 360 2 2	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 \$1,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500 \$171,000 \$93,600 \$52,000 \$10,000	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Disposal Remove, Salvage and Disposal Purnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Pile Furnish & Install Barrier Waler	Units LS LS CY CY LF EA EA EA LS CS ES & DRED Units LS CY CY LF EA LS LS EA LS LS EA LS EA LS EA LS EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd All Reqd 170 7,100 6 360 2	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 \$1,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500 \$171,000 \$93,600 \$93,600 \$52,000 \$10,000 \$18,150	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Disposal Remove, Salvage and Peinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C- ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish & Earing Pile, 30 Inch Dia. X 0.750 Inch Thick Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN®, 30 Inch Dia. Pile Furnish & Install Bearing Cap & Connection Supply Anode	Units LS LS CY CY LF EA EA EA LS Units LS EA LS CY CY LF EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 All Reqd 170 7,100 6 360 2 2 33	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 \$1,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000 \$475 \$425 \$20,000	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500 \$171,000 \$93,600 \$52,000 \$10,000	\$19,4
Item	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Reinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C-ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Dia. N 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Dia. N 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Dia. Dia. N 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Dia. Dia. N 0.750 Inch Thick SPIN FIN*, 30 Inch Dia. Pile Furnish & Install Barrier Waler	Units LS LS LS CY CY LF EA EA EA LS Units LS EX EA LS EX LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 7 Quantity All Reqd 380 380 All Reqd 170 7,100 6 360 2 2 333 1 24 24	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost** \$36,200 \$475 \$425 \$20,000 **Unit Cost** \$29,013 \$70 \$25 \$28,500 \$26,000 \$5,000 \$550 \$22,500 \$475 \$425	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$483,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$336,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500 \$171,000 \$93,600 \$52,000 \$10,000 \$18,150 \$22,500 \$11,400 \$10,200	\$19,4
Item 1505.1-A 2060.1-A 2060.3-A 2205.1-A 2881.1-A 2896.9-A 2896.10-A 2896.11-A 2896.11-A 2896.12-A 2896.12-A 2996.3-B 2996.3-B 2996.3-B 2996.3-C 2896.5-C 2296.1-C 2290.1-C 2290.2-C 2296.2-C 2296.2-C	GEOTECHNICAL INVESTIGATIONS SITE TOPOGRAPHIC & BATHYMETRIC SURVEYS FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE A-DREDGING NORTH BASINS AND TRANSIENT F Item Description Mobilization Demolition, Salvage and Disposal Remove, Salvage and Disposal Remove, Salvage and Peinstall Existing Light Fixtures Class II Armor Rock Dredging and Offshore Disposal Furnish Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Install Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. X 0.500 Inch Thick Field Splice Transient Float Pile, 12.75 Inch Dia. Pile ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE A BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE B-ANODES Item Description Mobilization Supply Anode Install Anode Field Photos, Continuity, Potential Readings & Report ESTIMATED CONSTRUCTION ADDITIVE ALTERNATE C BID PRICE CONTINGENCY (7%) CONTRACT ADMIN & CONSTRUCTION INSPECTION TOTAL RECOMMENDED PROJECT BUDGET TE ALTERNATE C- ADDITIONAL 33' WAVE BARRIER WITH ANODE Item Description Mobilization Class II Armor Rock Dredging and Offshore Disposal Furnish & Install Wave Barrier Pile, 24 Inch Dia. X 0.500 Inch Thick w/Sheetpile Wing Furnish & Earing Pile, 30 Inch Dia. X 0.750 Inch Thick Install Bearing Pile, 30 Inch Dia. X 0.750 Inch Thick SPIN FIN®, 30 Inch Dia. Pile Furnish & Install Bearing Cap & Connection Supply Anode	Units LS LS LS LS LS CY CY LF EA EA EA LS Units LS EA EA LS CY CY LF EA EA LS LS EA LS CY CY LF EA EA LS	Quantity All Reqd All Reqd All Reqd 400 16,100 140 9 7 7 Quantity All Reqd 380 380 All Reqd 170 7,100 6 360 2 2 33 1 24	\$30,675 \$25,000 \$10,000 \$70 \$30 \$75 \$4,000 \$2,000 \$1,000 **Unit Cost** \$36,200 \$475 \$425 \$20,000 **Unit Cost** \$29,013 \$70 \$25 \$28,500 \$26,000 \$5,000 \$5,000 \$550 \$22,500 \$475	\$878,946 \$96,893 \$1,139,841 \$18,677,863 Amount \$30,675 \$25,000 \$10,000 \$28,000 \$443,000 \$10,500 \$36,000 \$14,000 \$7,000 \$644,175 \$45,092 \$45,092 \$734,360 Amount \$36,200 \$180,500 \$161,500 \$20,000 \$398,200 \$27,874 \$27,874 \$453,948 Amount \$29,013 \$11,900 \$177,500 \$171,000 \$93,600 \$52,000 \$10,000 \$18,150 \$22,500 \$11,400	

\$20,560,729

\$694,559

TOTAL RECOMMENDED PROJECT BUDGET