

Port of Brookings Harbor - Hallmark Dock Sheet Pile Wall Repair

Engineer's Estimate (Preliminary)

2/22/2019

Item No.	Item	Unit	Quantity	Unit Price	Total Price	Remarks
1	Final Project Design	LS	1	\$18,000	\$18,000	
2	Permitting	LS	1	\$8,500	\$8,500	Shared with the Other Subprojects
3	Contractor Procurement	LS	1	\$3,000	\$3,000	Shared with the Other Subprojects
4	Mobilization	LS	1	\$180,000	\$180,000	
5	Erosion Control	LS	1	\$5,000	\$5,000	
6	Pollution Control Plan	LS	1	\$500	\$500	
7	Removal of Structures and Obstructions	LS	1	\$88,462	\$88,462	Anything man-made not removable as General Excavation, plus sloughed out fill and other soil outside limits of Gen. Exc.
8	Relocate Existing Outbuildings	LS	1	\$15,385	\$15,385	
9	General Excavation	Cy	2923	\$5	\$14,615	Excavation to bottom of working pad
10	Stone Embankment	Cy	962	\$50	\$48,077	Clean 1 to 4 inch backfill below water
11	Cement Treated Soil	Cy	1500	\$7	\$10,500	Deadman CTS & upper 2-foot section only
12	Portland Cement	Ton	125	\$150	\$18,692	5% of CTS
13	Nonwoven Filter Geotextile	Sy	462	\$1	\$462	
14	Shoring	Sy	46	\$400	\$18,462	
15	Structure Excavation	Cy	46	\$15	\$692	Additional excavation for deadman below Gen. Exc.
16	Selected General Backfill	Cy	1031	\$8	\$8,246	Backfill behind deadmen and below CTS between sheet pile wall and deadman CTS, using on-site soils. Steel cost & \$40,000 shipping plus 15% mark-up & installation
17	Furnish and Drive Steel Sheet Piling	Sy	9745	\$61	\$597,832	@ \$2700/pile
18	Furnish and Install Steel Tieback Rods	Ft	2435	\$32	\$77,908	Includes couplers, sleeves, grout, plates, etc.
19	Reinforcement	Lbs.	5692	\$1	\$6,262	
20	Coated Reinforcement	Lbs.	3462	\$1	\$4,327	
21	General Structural Concrete, Class 3300	Cy	158	\$500	\$78,846	Includes waler, waler bolts, brackets, scaffolding, welding, plates, installation, etc..
22	Steel Channel Walers	Lbs.	12054	\$7	\$78,350	
23	Steel Ladders	Lbs.	538	\$10	\$5,385	All stainless steel.
24	Wharf Fenders	Ft.	396	\$20	\$7,923	
25	Aggregate Base	Cy	385	\$45	\$17,308	12" layer below CTS and sand fill.
26	Level 3, 1/2 Inch Dense MHMAC Mixture	Ton	96	\$150	\$14,423	
27	Remove and Reinstall Illumination	LS	1	\$4,615	\$4,615	
28	Furnish and Install Dockside Hoist	LS	1	\$11,538	\$11,538	
Subtotal of Biddable Items:					\$1,343,309	
Contingencies @ 10%:					\$134,300	
Construction Engineering @ 15%:					\$201,500	
Construction Total:					\$1,679,109	