

Opinion of Probable Construction Cost



Client: County of Humboldt - Department of Public Works
 Project Title: Natural Shoreline Infrastructure (Brainard to Bracut)
 Status of Design: 50% Design

Date: 5/7/2022
 GHD Ref: 11214987

Item No.	Description	Unit	Quantity	Unit Cost		Total	
1	Mobilization and Demobilization (Estimated Approx. 4% of Subtotal)	LS	1	\$ 350,000.00	\$ 450,000.00	\$350,000	\$450,000
2	ROW for Staging/Stockpile Area and Notification/Signage	LS	1	\$100,000.00		\$100,000	
3	Water Management, Erosion/Sediment Control, and Environmental Protection	LS	1	\$200,000.00		\$200,000	
4	Construction Survey Staking	LS	1	\$75,000.00		\$75,000	
5	Clearing and Grubbing	LS	1	\$50,000.00		\$50,000	
6	Invasive Spartina Removal	LS	1	\$50,000.00		\$50,000	
7	Soil Fill for Salt Marsh Plain and Ecotone Transition (including tidal channel grading) ¹	CY	130,000	\$25.00	\$50.00	\$3,250,000	\$6,500,000
8	Gravel/Sand Mix for Shingle Beach	CY	20,000	\$100.00		\$2,000,000	
9	Cobble/Gravel/Soil Mix for Barrier Berm	CY	30,000	\$100.00		\$3,000,000	
10	LWD Groins	EA	16	\$10,000.00		\$160,000	
11	Biodegradable Rolled Erosion Control Netting	SQFT	530,000	\$0.50		\$265,000	
12	Fiber Rolls	LF	20,000	\$5.00		\$100,000	
13	Broadcast Native Seed	ACRE	6.1	\$10,000.00		\$61,000	
14	Install Wetland Plugs ²	ACRE	6.1	\$25,000.00		\$152,000	
15	Interpretative Areas (Benches and Signs)	LS	1	\$50,000.00		\$50,000	

	Lower	Upper
Construction Subtotal:	\$ 9,870,000	\$ 13,220,000
30% Estimating Contingency:	\$ 2,970,000	\$ 3,970,000
TOTAL CONSTRUCTION COST:	\$ 12,840,000	\$ 17,190,000

Planning, Engineering, and Environmental Compliance @ 20% (Lower) and 25% (Upper):	\$ 2,568,000	\$ 4,297,500
Construction Management and Administration @ 10% (Lower) and 15% (Upper):	\$ 1,284,000	\$ 2,578,500
TOTAL PROJECT COST³:	\$ 16,700,000	\$ 24,100,000

Post Construction Monitoring and Management (Assumed 3-years)⁴: \$ 150,000 \$ 300,000

Note:

¹ The total opinion of cost is highly sensitive to the unit cost of soil fill, thus a lower and upper unit cost range was provided to reflect the highly variable costs associated with procurement and transport.

² Wetland plug planting assumed for Transition Zone only with passive (natural) recruitment of salt marsh species on salt marsh plain.

³ This opinion reflects probable construction costs obtainable for the project location on the date this estimate was prepared. Due to inflation of labor, material and equipment costs and nature of construction cost volatility, prices may vary. Escalation of costs should be considered for future planning and use of this estimate.

⁴ Post construction monitoring cost assumed to require limited management actions and interventions.

Opinion of Probable Construction Cost (Phase 1 only)



Client: County of Humboldt - Department of Public Works
 Project Title: Natural Shoreline Infrastructure (Brainard to Bracut)
 Status of Design: 50% Design

Date: 6/6/2022
 GHD Ref: 11214987

Item No.	Description	Unit	Quantity	Unit Cost		Total	
1	Mobilization and Demobilization (Estimated Approx. 4% of Subtotal)	LS	1	\$ 120,000.00	\$ 130,000.00	\$120,000	\$130,000
2	ROW for Staging/Stockpile Area and Notification/Signage	LS	1	\$25,000.00		\$25,000	
3	Water Management, Erosion/Sediment Control, and Environmental Protection	LS	1	\$50,000.00		\$50,000	
4	Construction Survey Staking	LS	1	\$20,000.00		\$20,000	
5	Clearing and Grubbing	LS	1	\$10,000.00		\$10,000	
6	Invasive Spartina Removal	LS	1	\$10,000.00		\$10,000	
7	Soil Fill for Salt Marsh Plain and Ecotone Transition (including tidal channel grading) ¹	CY	20,000	\$25.00	\$50.00	\$500,000	\$1,000,000
8	Gravel/Sand Mix for Shingle Beach	CY	10,000	\$100.00		\$1,000,000	
9	Cobble/Gravel/Soil Mix for Barrier Berm	CY	10,000	\$100.00		\$1,000,000	
10	LWD Groins	EA	2	\$10,000.00		\$20,000	
11	Biodegradable Rolled Erosion Control Netting	SQFT	80,000	\$0.50		\$40,000	
12	Fiber Rolls	LF	20,000	\$5.00		\$100,000	
13	Broadcast Native Seed	ACRE	0.9	\$10,000.00		\$10,000	
14	Install Wetland Plugs ²	ACRE	0.9	\$25,000.00		\$23,000	
15	Interpretative Areas (Benches and Signs)	LS	1	\$10,000.00		\$10,000	

	Lower	Upper
Construction Subtotal:	\$ 2,940,000	\$ 3,450,000
30% Estimating Contingency:	\$ 890,000	\$ 1,040,000
TOTAL CONSTRUCTION COST:	\$ 3,830,000	\$ 4,490,000

Planning, Engineering, and Environmental Compliance @ 20% (Lower) and 25% (Upper):	\$ 766,000	\$ 1,122,500
Construction Management and Administration @ 10% (Lower) and 15% (Upper):	\$ 383,000	\$ 673,500
TOTAL PROJECT COST³:	\$ 5,000,000	\$ 6,300,000

Post Construction Monitoring and Management (Assumed 3-years)⁴: \$ 50,000 \$ 150,000

Note:

¹ The total opinion of cost is highly sensitive to the unit cost of soil fill, thus a lower and upper unit cost range was provided to reflect the highly variable costs associated with procurement and transport.

² Wetland plug planting assumed for Transition Zone only with passive (natural) recruitment of salt marsh species on salt marsh plain.

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