



PETERSBURG DRIVE DOWN FACILITY

Engineer's Estimate - November 15, 2013

PND Engineers, Inc.

Project No. 092072.05



Base Bid:

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$669,000	\$669,000
2060.1	Demolition and Disposal	LS	All Req'd	\$200,000	\$200,000
2200.1	Leveling Course	CY	1,225	\$32	\$39,200
2200.2	Geotextile Fabric	SY	4,000	\$4	\$16,000
2200.3	12-Inch CPEP-S Pipe Culvert	LF	92	\$50	\$4,600
2200.4	Oil Water Separator	EA	1	\$15,000	\$15,000
2200.5	Storm Drain Outlet Structure	EA	1	\$15,000	\$15,000
2200.6	Concrete Area Drain	EA	1	\$2,000	\$2,000
2200.7	Concrete Sidewalk, Curb and Gutter Replacement	LS	All Req'd	\$10,000	\$10,000
2202.1	Class A Shot Rock Borrow	CY	925	\$19	\$17,575
2202.2	Class B Shot Rock Borrow	CY	44,000	\$14	\$616,000
2205.1	Armor Rock	CY	8,225	\$32	\$263,200
2205.2	Shoulder Barrier Rocks	LF	650	\$40	\$26,000
2601.1	6 Inch DIP Water Pipe	LF	760	\$70	\$53,200
2603.1	Fire Hydrant	EA	1	\$7,000	\$7,000
2603.2	Post Hydrant Assembly	EA	1	\$3,000	\$3,000
2702.1	Construction Survey Measurement	LS	All Req'd	\$40,000	\$40,000
2718.1	Sign Assemblies	LS	All Req'd	\$3,000	\$3,000
2726.1	Approach Dock	LS	All Req'd	\$1,300,000	\$1,300,000
2882.1	Silt Containment Boom	LS	All Req'd	\$30,000	\$30,000
2894.1	Transfer Bridge	LS	All Req'd	\$850,000	\$850,000
2894.2	Bridge Support Float	LS	All Req'd	\$175,000	\$175,000
2894.3	Bridge Abutment Assembly	LS	All Req'd	\$60,000	\$60,000
2896.1	Float Mooring Vertical Pile, 24" Dia. X 0.500" Thick	EA	14	\$18,000	\$252,000
2896.2	Float Mooring Batter Pile, 24" Dia. X 0.500" Thick	EA	2	\$20,000	\$40,000
2896.3	Float Mooring Pile Frames	LS	All Req'd	\$275,000	\$275,000
2896.4	Approach Dock Vertical Pile, 16" Dia. X 0.500" Thick	EA	18	\$13,000	\$234,000
2896.5	Approach Dock Batter Pile, 16" Dia. X 0.500" Thick	EA	7	\$15,000	\$105,000
2896.6	Bridge Abutment Vertical Pile, 16" Dia. X 0.500" Thick	EA	2	\$13,000	\$26,000
2896.8-1	Fender Pile	EA	2	\$35,000	\$70,000
2896.7	Bridge Abutment Batter Pile, 16" Dia. X 0.500" Thick	EA	3	\$14,000	\$42,000
2897.1	Drive Down Float	LS	All Req'd	\$3,500,000	\$3,500,000
2899.1	Life Rings, Fire Extinguishers and Hose Mounts	LS	All Req'd	\$9,000	\$9,000
2902.1	Float Transition Apron	LS	All Req'd	\$90,000	\$90,000
3305.1	Approach Dock Abutment	LS	All Req'd	\$40,000	\$40,000
	Uplands Electrical Power, Approach Dock & Transfer				
16000.1-2	Bridge Lighting and Raceway Systems	LS	All Req'd	\$190,000	\$190,000
ESTIMATED CONSTRUCTION BID PRICE - BASE BID					\$9,287,775
CONTINGENCY (5%)					\$464,389
SURVEY & GEOTECHNICAL INVESTIGATION					\$75,000
ENVIRONMENTAL PERMITS					\$75,000
COMPENSATORY MITIGATION					\$50,000
PMPL UTILITY SERVICE CONNECTION					\$100,000
FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS					\$660,000
CONTRACT ADMIN & CONSTRUCTION INSPECTION (7%)					\$650,144
TOTAL RECOMMENDED PROJECT BUDGET - BASE BID					\$11,362,308

Additive Alternate 1:

Item	Item Description	Units	Quantity	Unit Cost	Amount
16000.2-3	Electrical Power Equipment, Pedestals and Lighting on Drive Down Float	LS	All Req'd	\$154,000	\$154,000
ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 1					\$154,000
CONTINGENCY (5%)					\$7,700
CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)					\$10,780
TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 1					\$172,480

Additive Alternate 2:

Item	Item Description	Units	Quantity	Unit Cost	Amount
2601.2-4	Seasonal Water Service To Float	LS	All Req'd	\$55,000	\$55,000
ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 2					\$55,000
CONTINGENCY (5%)					\$2,750
CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)					\$3,850
TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 2					\$61,600

Additive Alternate 3:

Item	Item Description	Units	Quantity	Unit Cost	Amount
16000.3-5	Uplands Lighting	LS	All Req'd	\$220,000	\$220,000
ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 3					\$220,000
CONTINGENCY (5%)					\$11,000
CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)					\$15,400
TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 3					\$246,400

Additive Alternate 4:

Item	Item Description	Units	Quantity	Unit Cost	Amount
2996.1-6	Supply Anode - Type I	EA	36	\$850	\$30,600
2996.2-6	Supply Anode - Type II	EA	50	\$475	\$23,750
2996.3-6	Install Anode, All Types	EA	86	\$700	\$60,200
2996.4-6	Continuity Testing and Potential Readings	LS	All Req'd	\$5,000	\$5,000
ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 4					\$119,550
CONTINGENCY (5%)					\$5,978
CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)					\$8,369
TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 4					\$133,896

Additive Alternate 5:

Item	Item Description	Units	Quantity	Unit Cost	Amount
2726.2-7	Increase Approach Dock Width to 28 Feet	LS	All Req'd	\$65,000	\$65,000
ESTIMATED CONSTRUCTION BID PRICE - ADDITIVE ALTERNATE 5					\$65,000
CONTINGENCY (5%)					\$3,250
CONTRACT ADMIN. & CONSTRUCTION INSPECTION (7%)					\$4,550
TOTAL RECOMMENDED PROJECT BUDGET - ADDITIVE ALTERNATE 5					\$72,800

TOTAL RECOMMENDED PROJECT BUDGET: BASE BID + ALL ALTERNATES**\$12,049,484**