

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 Regd \$669,000 \$669,000 2060.1 Demolition and Disposal All Reqd LS \$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 \$15,000 1 \$15,000 2200.5 Storm Drain Outlet Structure EA 1 \$15,000 \$15,000 2200.6 Concrete Area Drain EA \$2,000 \$2,000 2200.7 Concrete Sidewalk, Curb and Gutter Replacement LS All Reqd \$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 \$3,000 \$3,000 2702.1 Construction Survey Measurement All Reqd LS \$40,000 \$40,000 2718.1 Sign Assemblies LS All Reqd \$3,000 \$3,000 2726.1 Approach Dock LS All Regd \$1,300,000 \$1,300,000 2882.1 Silt Containment Boom LS All Reqd \$30,000 \$30,000 2894.1 Transfer Bridge LS All Reqd \$850,000 \$850,000 2894.2 **Bridge Support Float** LS All Reqd \$175,000 \$175,000 2894.3 Bridge Abutment Assembly LS All Reqd \$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 Reqd \$275,000 \$275,000 2896.4 Approach Dock Vertical Pile, 16" Dia. X 0.500" Thick 18 EA \$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 \$14,000 \$42,000 2897.1 Drive Down Float LS All Regd \$3,500,000 \$3,500,000 2899.1 Life Rings, Fire Extinguishers and Hose Mounts LS All Reqd \$9,000 \$9,000 2902.1 Float Transition Apron LS All Reqd \$90,000 \$90,000 Approach Dock Abutment LS All Reqd \$40,000 \$40,000 Uplands Electrical Power, Approach Dock & Transfer 16000.1-2 Bridge Lighting and Raceway Systems LS All Reqd \$190,000 \$190,000 ESTIMATED CONSTRUCTION BID PRICE - BASE BID \$9,287,775 **CONTINGENCY (5%)** \$464,389 SURVEY & GEOTECHNICAL INVESTIGATION \$75,000

CONTRACT ADMIN & CONSTRUCTION INSPECTION (7%)
TOTAL RECOMMENDED PROJECT BUDGET - BASE BID

FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS

ENVIRONMENTAL PERMITS

COMPENSATORY MITIGATION

PMPL UTILITY SERVICE CONNECTION

\$650,144 \$11,362,308

\$75,000

\$50,000

\$100,000

\$660,000

Item	Item Description	Units	Quantity	Unit Cost	Amount
	Electrical Power Equipment, Pedestals and Lighting on				
16000.2-3	3 Drive Down Float	LS	All Reqd	\$154,000	\$154,000
	ESTIMATED CONSTRUCTION BID PRICE - ADDIT	IVE ALTERNA	ATE 1		\$154,00
	CONTINGENCY (5%)				\$7,70
	CONTRACT ADMIN. & CONSTRUCTION INSPECT				\$10,78
	TOTAL RECOMMENDED PROJECT BUDGET - AD	DITIVE ALTE	RNATE 1		\$172,48
Additiv	e Alternate 2:				
Item	Item Description	Units	Quantity	Unit Cost	Amount
2601.2-4	Seasonal Water Service To Float	LS	All Reqd	\$55,000	\$55,000
	ESTIMATED CONSTRUCTION BID PRICE - ADDIT	IVE ALTERNA	ATE 2		\$55,00
	CONTINGENCY (5%)				\$2,75
	CONTRACT ADMIN. & CONSTRUCTION INSPECT	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			\$3,85
	TOTAL RECOMMENDED PROJECT BUDGET - AD	DITIVE ALTE	RNATE 2		\$61,60
Additiv	e Alternate 3:				
Item	Item Description	Units	Quantity	Unit Cost	Amount
Techni	Atom Description	CHILIS			
		LS	The state of the s	The second second second	
	Uplands Lighting	LS	All Reqd	\$220,000	\$220,000
		LS	All Reqd	The second second second	\$220,000 \$220,000
	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT	LS IVE ALTERNA	All Reqd	The second second second	\$220,000 \$220,000 \$11,000 \$15,400
	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%)	LS IVE ALTERNA ION (7%)	All Reqd	The second second second	\$220,000 \$220,000 \$11,000 \$15,400
	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT	LS IVE ALTERNA ION (7%)	All Reqd	The second second second	\$220,000 \$220,000 \$11,00 \$15,40
16000.3-5	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT	LS IVE ALTERNA ION (7%)	All Reqd	The second second second	\$220,000 \$220,000 \$11,00 \$15,40
16000.3-5	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADI	LS IVE ALTERNA ION (7%)	All Reqd	The second second second	\$220,000 \$220,000 \$11,000 \$15,400
Additiv Item	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN.	LS IVE ALTERNA ION (7%) DITIVE ALTEI	All Regd	\$220,000	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400
Additiv Item 2996.1-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECTS TOTAL RECOMMENDED PROJECT BUDGET - ADI e Alternate 4: Item Description	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units	All Reqd ATE 3 RNATE 3 Quantity	\$220,000 Unit Cost	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 Amount
Additiv Item 2996.1-6 2996.2-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADI e Alternate 4: Item Description Supply Anode - Type I	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA	All Reqd ATE 3 RNATE 3 Quantity 36	\$220,000 Unit Cost \$850	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 Amount \$30,600 \$23,750
Additiv Item 2996.1-6 2996.2-6 2996.3-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADI e Alternate 4: Item Description Supply Anode - Type I Supply Anode - Type II	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA	All Reqd ATE 3 RNATE 3 Quantity 36 50	\$220,000 Unit Cost \$850 \$475	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200
Additiv Item 2996.1-6 2996.2-6 2996.3-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADI e Alternate 4: Item Description Supply Anode - Type I Supply Anode - Type II Install Anode, All Types	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000
Additiv Item 2996.1-6 2996.2-6 2996.3-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN. & CONSTRUCTION INSPECT TO TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT BUDGET	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000
Additiv Item 2996.1-6 2996.2-6 2996.3-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADDIT CONTRACT ADMIN RECOMMENDED PROJECT BUDGET - ADDIT CONTRACT TO THE C	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000 \$119,550
Additiv Item 2996.1-6 2996.2-6 2996.3-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) E Alternate 4: Item Description Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%)	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd ATE 4	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000 \$119,550 \$83,600
Additiv Item 2996.1-6 2996.2-6 2996.4-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTRACT ADMIN RECOMMENDED PROJECT BUDGET - ADDIT Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd ATE 4	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000 \$119,550 \$83,600
Additiv Item 2996.1-6 2996.2-6 2996.4-6	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT! TOTAL RECOMMENDED PROJECT BUDGET - ADI e Alternate 4: Item Description Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECTIONAL RECOMMENDED PROJECT BUDGET - ADIT TOTAL RECOMMENDED PROJECT BUDGET - ADDIT CONTINGENCY (5%)	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd ATE 4	\$220,000 Unit Cost \$850 \$475 \$700	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000 \$119,550 \$83,600
Additiv Item 2996.1-6 2996.3-6 2996.4-6 Additiv Item	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) E Alternate 5: Item Description Increase Approach Dock Width to 28 Feet	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA ION (7%) DITIVE ALTER Units LS	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd All Reqd All Reqd All Reqd All Reqd All Reqd	\$220,000 Unit Cost \$850 \$475 \$700 \$5,000	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 Amount \$30,600 \$23,750 \$60,200 \$5,000 \$119,556 \$5,976 \$8,369 \$133,890
Additiv Item 2996.1-6 2996.3-6 2996.4-6 Additiv Item	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECTIT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) E Alternate 5: Item Description	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA LS IVE ALTERNA ION (7%) DITIVE ALTER Units LS	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd All Reqd All Reqd All Reqd All Reqd All Reqd	\$220,000 Unit Cost \$850 \$475 \$700 \$5,000	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 Amount \$30,600 \$23,750 \$60,200 \$5,000 \$119,556 \$5,976 \$8,366 \$133,896 Amount
Additiv Item 2996.1-6 2996.3-6 2996.4-6 Additiv Item	Uplands Lighting ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) Supply Anode - Type I Supply Anode - Type II Install Anode, All Types Continuity Testing and Potential Readings ESTIMATED CONSTRUCTION BID PRICE - ADDIT CONTINGENCY (5%) CONTRACT ADMIN. & CONSTRUCTION INSPECT TOTAL RECOMMENDED PROJECT BUDGET - ADIT CONTINGENCY (5%) E Alternate 5: Item Description Increase Approach Dock Width to 28 Feet	LS IVE ALTERNA ION (7%) DITIVE ALTEI Units EA EA EA EA LS IVE ALTERNA ION (7%) DITIVE ALTER Units LS IVE ALTERNA	All Reqd ATE 3 RNATE 3 Quantity 36 50 86 All Reqd All Reqd All Reqd All Reqd All Reqd All Reqd	\$220,000 Unit Cost \$850 \$475 \$700 \$5,000	\$220,000 \$220,000 \$11,000 \$15,400 \$246,400 \$30,600 \$23,750 \$60,200 \$5,000 \$119,550 \$83,650 \$133,890

TOTAL RECOMMENDED PROJECT BUDGET: BASE BID + ALL ALTERNATES

\$12,049,484