

## Waterford Lift Station Upgrades (8123-10009)

Item	Quantity	Unit	Unit Cost Estimate	Cost
<b>Lift Station #1</b>				
<b>Demolition</b>				
Removal of Existing Pumps and Pipe Fittings	1	LS	\$1,000	\$1,000
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$3,000	\$3,000
Demobilization	1	LS	\$3,000	\$3,000
Wet Well Fillet Modifications	1	LS	\$3,000	\$3,000
Pumps, 10 Hp	2	EA	\$18,000	\$36,000
Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Upgrade Electrical Service to 208V/3P	1	LS	\$8,000	\$8,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Electrical Work	1	LS	\$13,600	\$13,600
Control Panel Material	1	LS	\$45,000	\$45,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, Pump Replacement, Electrical Service Update, and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$172,200
<b>Lift Station #2</b>				
<b>Demolition</b>				
Removal of Existing Pumps and Pipe Fittings	1	LS	\$1,000	\$1,000
Removal of Existing Deck and Access Door	1	LS	\$300	\$300
Removal of Guide Rail System	1	LS	\$500	
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$3,000	\$3,000
Demobilization	1	LS	\$3,000	\$3,000
Wet Well Deck	1	LS	\$600	\$600
Wet Well Access Door	1	LS	\$3,500	\$3,500
Wet Well Fillet Modifications	1	LS	\$3,000	\$3,000
Pumps, 20 Hp	2	EA	\$29,000	\$58,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000

Plug Valves	2	EA	\$1,500	\$3,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Electrical Work	1	LS	\$13,200	\$13,200
Control Panel Material	1	LS	\$46,000	\$46,000
Reconstruction of Force Main Quick Connect Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Wet Well Pipe and Fitting Work, Repainting, Pump Replacement and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$191,200

### **Lift Station #3**

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500
Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$46,000	\$46,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$119,600

### **Lift Station #4**

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500
Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000

Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$106,600

### **Lift Station #5 (Exterior Generator Set)**

#### **Demolition**

Removal of Trees (0" - 6")	2	EA	\$400	\$800
Removal of Gate Valves	1	LS	\$600	\$600

#### **New Work**

Mobilization	1	LS	\$2,500	\$0
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$3,000	\$3,000
Generator (30kW) and Transfer Switch	1	LS	\$21,500	\$21,500
Generator Sound Enclosure	1	LS	\$2,500	\$2,500
Generator Concrete Pad ( 8 ft. x 3 ft x 0.5 ft.)	1.00	LS	\$6,200	\$6,200
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000

Electrical Work	1	LS	\$25,650	\$25,650
Control Panel Material	1	LS	\$45,000	\$45,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Tree Replacement	3	EA	\$500	\$1,500
Clearing and Grubbing	1	LS	\$2,000	\$2,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$173,750

### **Lift Station #6 (New Building)**

#### **Demolition**

Removal of Existing Generator Building	1	LS	\$10,000	\$10,000
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Removal of Concrete Pavement	1	LS	\$2,000	\$2,000
Removal of Existing Pumps, Wet Well Piping and Guide Rails	1	LS	\$4,000	\$4,000
Remove Stump	1	LS	\$500	\$500
<b>New Work</b>				
Mobilization	1	LS	\$20,000	\$20,000
Demobilization	1	LS	\$10,000	\$10,000
Site Work and Erosion Control and Dewatering Pumps, 20/25 Hp	1	LS	\$85,000	\$85,000
Wet Well Riser Section and Deck	2	EA	\$27,000	\$54,000
Wet Well Access Door	1	EA	\$1,000	\$1,000
Wet Well Fillet Modifications	1	EA	\$4,000	\$4,000
Wet Well and Valve Vault Piping	1	LS	\$3,500	\$3,500
Wet Well Guide Rails	1	LS	\$38,000	\$38,000
Concrete Driveway	1	LS	\$2,000	\$2,000
			\$4,000	\$4,000
Generator and Transfer Switch	1	LS	\$42,500	\$42,500
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Upgrade Electrical Service to 208V/3P	1	LS	\$8,000	\$8,000
Field Electrical	1	LS	\$37,000	\$37,000
Control Panel Material	1	LS	\$70,000	\$70,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Pump Motor VFDs (25 Hp)	2	EA	\$7,000	\$14,000
Electrical Boring For New Conduit	1	LS	\$10,000	\$10,000
Generator Building (14 ft. x 18 ft.)	252	SF	\$925	\$233,100
Generator Building Foundation Slab	1	LS	\$15,000	\$15,000
Generator Building HVAC	1	LS	\$35,000	\$35,000
Generator Building Electrical Distribution Equipment	1	LS	\$18,000	\$18,000
Plug Valves	2	EA	\$1,900	\$3,800
Check Valves	2	EA	\$3,400	\$6,800
Paint Process Piping in Wet Well	1	LS	\$12,000	\$12,000
Installation of Force Main Quick Connect and New Piping in Valve Vault	1	LS	\$8,000	\$8,000
New Valve Vault	1	LS	\$35,000	\$35,000
New Valve Vault Access Door	1	LS	\$3,500	\$3,500
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Valve Replacement, Repainting, Electrical Service, and Control Panel Replacement.	1	LS	\$55,000	\$55,000

*Subtotal* \$854,200

**Lift Station #7 (Existing Building)**

**Demolition**

Removal of Existing Generator	1	LS	\$3,000	\$3,000
Removal of Gate Valves	1	LS	\$800	\$800
Removal of Check Valves	1	LS	\$800	\$800

**New Work**

Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$3,000	\$3,000

Generator (50kW) and Transfer Switch	1	LS	\$27,500	\$27,500
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Natural Gas Piping in Building	1	LS	\$2,500	\$2,500
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000

Field Electrical	1	LS	\$24,000	\$24,000
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Rewire Transformers to 12/208V, 3P, 4-wire	1	LS	\$4,000	\$4,000
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Control Panel Material	1	LS	\$48,000	\$48,000
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Building Modifications	1	LS	\$10,000	\$10,000
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Intake and Exhaust Damper and Actuators	1	LS	\$3,500	\$3,500
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Plug Valves	2	EA	\$2,400	\$4,800
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Check Valves	2	EA	\$4,000	\$8,000
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Repainting of Process Piping	1	LS	\$16,000	\$16,000
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Reconstruction of Force Main Quick Connect	1	LS	\$4,000	\$4,000
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Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$55,000	\$55,000
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*Subtotal* \$229,400

**Lift Station #7A**

**Demolition**

Removal of Gate Valves	1	LS	\$600	\$600
Removal of Check Valves	1	LS	\$600	\$600

**New Work**

Mobilization	1	LS	\$1,500	\$1,500
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Demobilization	1	LS	\$1,500	\$1,500
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Plug Valves	2	EA	\$1,500	\$3,000
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Check Valves	2	EA	\$2,700	\$5,400
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Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
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Repainting of Process Piping	1	LS	\$12,000	\$12,000
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Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
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Field Electrical	1	LS	\$10,850	\$10,850
Control Panel Material	1	LS	\$45,000	\$45,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$124,450

**Lift Station #8**

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$3,000	\$3,000
Generator (45kW) and Transfer Switch	1	LS	\$25,250	\$25,250
Generator Concrete Pad ( 9 ft. x 4 ft x 0.5 ft.)	1	LS	\$6,200	\$6,200
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500

Field Electrical	1	LS	\$26,000	\$26,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Plug Valves	2	EA	\$1,800	\$3,600
Installation of 8" Retaining Wall	1	LS	\$6,000	\$6,000
Installation of Bollards	2	EA	\$1,000	\$2,000
Relocate Antenna Pole	1	EA	\$2,000	\$2,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$184,150

**Lift Station #9 (Existing Building)**

<b>Demolition</b>				
Removal of Existing Generator	1	LS	\$300	\$300
Removal of Check Valves	1	LS	\$600	\$600

Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$3,000	\$3,000
Generator (45kW) and Transfer Switch	1	LS	\$25,250	\$25,250
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Natural Gas Piping in Building	1	LS	\$2,500	\$2,500
Field Electrical	1	LS	\$22,000	\$22,000
Rewire Transformers to 12/208V, 3P, 4-wire	1	LS	\$4,000	\$4,000
Control Panel Material	1	LS	\$47,000	\$47,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Building Duct Work	1	LS	\$6,000	\$6,000
Intake and Exhaust Damper and Actuators	1	LS	\$3,500	\$3,500
Building Modifications	1	LS	\$10,000	\$10,000
Plug Valves	2	EA	\$2,400	\$4,800
Check Valves	2	EA	\$4,000	\$8,000
Repainting of Process Piping	1	LS	\$16,000	\$16,000
Reconstruction of Force Main Quick Connect	1	LS	\$4,000	\$4,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$55,000	\$55,000

*Subtotal* \$227,050

**Lift Station #10 (New Building)**

<b>Demolition</b>				
Removal of Existing Generator Building	1	LS	\$10,000	\$10,000
Removal of Concrete Pavement	1	LS	\$2,000	\$2,000
Removal of Existing Pumps and Guide Rails	1	LS	\$2,000	\$2,000
<b>New Work</b>				
Mobilization	1	LS	\$20,000	\$20,000
Demobilization	1	LS	\$10,000	\$10,000
Site Work and Erosion Control	1	LS	\$30,000	\$30,000
Pumps, 25 Hp	2	EA	\$2,450	\$4,900
Wet Well Riser Section and Deck	1	EA	\$1,000	\$1,000
Wet Well Access Door	1	EA	\$4,000	\$4,000
Wet Well Fillet Modifications	1	LS	\$3,500	\$3,500
Wet Well Guide Rails	1	LS	\$2,000	\$2,000
Concrete Driveway	1	LS	\$4,000	\$4,000

Generator and Transfer Switch	1	LS	\$40,000	\$40,000
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Field Electrical	1	LS	\$34,000	\$34,000
Control Panel Material	1	LS	\$68,000	\$68,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Pump Motor VFDs (25 Hp)	2	EA	\$7,000	\$14,000
Generator Building (14 ft. x 18 ft.)	252	SF	\$800	\$201,600
Generator Building Foundation Slab	1	LS	\$15,000	\$15,000
Generator Building HVAC	1	LS	\$35,000	\$35,000
Generator Building Electrical Distribution Equipment	1	LS	\$15,000	\$15,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$55,000	\$55,000
<i>Subtotal</i>				\$580,500

### **Lift Station #10A**

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500
Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$118,600

### **Lift Station #10B**

**Demolition**

Removal of Gate Valves	1	LS	\$600	\$600
Removal of Check Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500
Plug Valves	2	EA	\$1,500	\$3,000
Check Valves	2	EA	\$2,700	\$5,400
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$124,600

### **Lift Station #11**

<b>Demolition</b>				
Remove Structure Piping and Valves	1	LS	\$3,000	\$3,000
<b>New Work</b>				
Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$6,000	\$6,000
Generator (80kW) and Transfer Switch	1	LS	\$41,000	\$41,000
Generator Concrete Pad ( 9 ft. x 4 ft x 0.5 ft.)	1.00	LS	\$6,200	\$6,200
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Field Electrical	1	LS	\$26,000	\$26,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Replace Structure Station Piping	1	LS	\$14,000	\$14,000
Paint Structure Station Piping	1	LS	\$10,000	\$10,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Plug Valves	2	EA	\$1,500	\$3,000
Check Valves	2	EA	\$2,700	\$5,400

Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000
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*Subtotal* \$212,100

**Lift Station #12**

<b>Demolition</b>	1	LS		\$0
Removal of Gate Valves	1	LS	\$600	\$600
Removal of Valve Vault Piping	1	LS	\$1,500	\$1,500
Removal of Wet Well Deck and Access Door	1	LS	\$300	\$300
<b>New Work</b>				
Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$3,000	\$3,000
Wet Well Riser Section and Deck	1	EA	\$1,000	\$1,000
Wet Well Access Door	1	EA	\$3,500	\$3,500
Generator (60kW) and Transfer Switch	1	LS	\$32,000	\$32,000
Generator Sound Enclosure	1	LS	\$2,500	\$2,500
Generator Concrete Pad ( 9 ft. x 4 ft x 0.5 ft.)	1.00	LS	\$6,200	\$6,200
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500

Field Electrical	1	LS	\$26,000	\$26,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Repainting of Process Piping	1	LS	\$6,000	\$6,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,500	\$3,500
Plug Valves	2	EA	\$1,500	\$3,000
Repaint Wet Well and Valve Vault Piping	1	LS	\$12,000	\$12,000
Installation of Bollard	4	EA	\$1,000	\$4,000
Raise Concrete Pad PCP	1	LS	\$2,000	\$2,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$201,600

**Lift Station #13**

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
Removal of Check Valves	1	LS	\$600	\$600
<b>New Work</b>				

Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500
Plug Valves	2	EA	\$1,500	\$3,000
Check Valves	2	EA	\$2,700	\$5,400
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$124,600

#### **Lift Station #14**

<b>Demolition</b>				
Removal of Concrete Slab	1	LS	\$300	\$300
Removal of Gate Valves	1	LS	\$600	\$600
Removal of Wet Well Piping	1	LS	\$2,000	\$2,000
<b>New Work</b>				
Mobilization	1	LS	\$2,500	\$2,500
Demobilization	1	LS	\$2,500	\$2,500
Site Work and Erosion Control	1	LS	\$4,000	\$4,000
Generator (45kW) and Transfer Switch	1	LS	\$25,250	\$25,250
Generator Concrete Pad ( 9 ft. x 4 ft x 0.5 ft.)	1.00	LS	\$6,200	\$6,200
Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Field Electrical	1	LS	\$26,000	\$26,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Wet Well Piping, 4"	1	LS	\$8,000	\$8,000
Paint Wet Well Piping	1	LS	\$12,000	\$12,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Plug Valves	2	EA	\$1,500	\$3,000
Installation of Bollard	2	EA	\$1,000	\$2,000

Concrete Pad	1	LS	\$1,500	\$1,500
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$188,350

**Lift Station #14A**

**Demolition**

Removal of Gate Valves	1	LS	\$600	\$600
Removal of Check Valves	1	LS	\$600	\$600

**New Work**

Mobilization	1	LS	\$2,500	\$3,500
Demobilization	1	LS	\$2,500	\$3,500
Site Work and Erosion Control	1	LS	\$6,000	\$6,000
Generator (45 kW) and Transfer Switch	1	LS	\$25,250	\$25,250
Generator Sound Enclosure	1	LS	\$2,500	\$2,500
Generator Concrete Pad ( 9 ft. x 4 ft x 0.5 ft.)	1.00	LS	\$6,200	\$6,200
New Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Installation of 8" Retaining Wall	1	LS	\$8,000	\$8,000

Field Electrical	1	LS	\$26,000	\$26,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Plug Valves	2	EA	\$1,900	\$3,800
Check Valves	2	EA	\$3,400	\$6,800
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$35,000	\$35,000

*Subtotal* \$197,250

**Lift Station #15 (New Building)**

**Demolition**

Removal of Tree	1	EA	\$500	\$500
Removal of Existing Generator Building	1	LS	\$10,000	\$10,000
Removal of Concrete Slab	1	LS	\$10,000	\$10,000
Removal of Wet Well Piping, Pumps, and Guide Rails	1	LS	\$5,000	\$5,000
Removal of Wet Well Deck	1	LS	\$500	\$500

**New Work**

Mobilization	1	LS	\$40,000	\$40,000
Demobilization	1	LS	\$20,000	\$20,000
Site Work and Erosion Control	1	LS	\$70,000	\$70,000
Asphalt	80	S.Y.	\$250	\$20,000
Culvert	18	L.F.	\$250	\$4,500
Dewatering	1	LS	\$70,000	\$70,000
Pumps, 40 Hp	3	EA	\$40,000	\$120,000
Wet Well Riser Section and Deck	1	EA	\$1,500	\$1,500
Wet Well Fillet Modifications	1	LS	\$4,500	\$4,500
Wet Well Piping	1	LS	\$70,000	\$70,000
Wet Well Guide Rails	1	LS	\$4,000	\$4,000
Wet Well Access Door	1	LS	\$6,000	\$6,000
Generator (150 kW) and Transfer Switch	1	LS	\$72,500	\$72,500
New Natural Gas Meter and Connection	1	LS	\$3,500	\$3,500
Upgrade Electrical Service to 460V/3P	1	LS	\$12,000	\$12,000
Field Electrical	1	LS	\$34,000	\$34,000
Control Panel Material	1	LS	\$68,000	\$68,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Pump Motor VFDs (40 Hp)	3	EA	\$10,000	\$30,000
Generator Building (14 ft. x 20 ft.)	280	SF	\$1,800	\$504,000
Generator Building Foundation	1	LS	\$36,000	\$36,000
Generator Building HVAC	1	LS	\$30,000	\$30,000
Generator Building Electrical Distribution Equipment	1	LS	\$25,000	\$25,000
Yard Light and Pole	1	LS	\$3,800	\$3,800
Valve Vault Structure	1	LS	\$30,000	\$30,000
Valve Vault Piping and Valves	1	LS	\$18,000	\$18,000
Wet Well and Valve Vault Painting	1	LS	\$25,000	\$25,000
Force Main Piping	80	LF	\$400	\$32,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting, and Control Panel Replacement.	1	LS	\$80,000	\$80,000

Subtotal

\$1,466,300

### Lift Station #15A

<b>Demolition</b>				
Removal of Gate Valves	1	LS	\$600	\$600
<b>New Work</b>				
Mobilization	1	LS	\$1,500	\$1,500
Demobilization	1	LS	\$1,500	\$1,500

Plug Valves	2	EA	\$1,500	\$3,000
Reconstruction of Force Main Quick Connect	1	LS	\$3,000	\$3,000
Repainting of Process Piping	1	LS	\$12,000	\$12,000
Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
Wet Well Float Switches and Transducer	1	LS	\$6,000	\$6,000
Temporary Pumping System To Isolate Station For Reconstruction of Bypass Valve, Gate Valve Replacement, Repainting and Control Panel Replacement.	1	LS	\$35,000	\$35,000
<i>Subtotal</i>				\$118,600

### **Island View Court Grinder Station**

#### **New Work**

Electrical Work	1	LS	\$11,000	\$11,000
Control Panel Material	1	LS	\$45,000	\$45,000
<i>Subtotal</i>				\$56,000

#### **General and Common Upgrades**

District Office - Main Control Panel Hardware and Panel Build	1	LS	\$92,000	\$92,000
SCADA Hardware and Software and Main Panel Programing Allowance	1	LS	\$75,000	\$75,000
Flow meter panel wiring.	1	LS	\$1,500	\$1,500
<i>Subtotal</i>				\$168,500

#### **Total**

Subtotal	\$5,939,600
Bonds, Insurance, Overhead (15%)	\$890,940
Subtotal	\$6,830,540
Construction Contingency (10%)	\$683,054
Subtotal	\$7,513,594
Engineering and Legal (25%)	\$1,707,635
Total Capital Cost	\$8,538,175