



City of Stevenson

Phone (509)427-5970
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7121 E Loop Road, PO Box 371
Stevenson, Washington 98648

December 28, 2020

Christopher LoBosco, Civil Engineer/Project Officer
US Department of Commerce
Economic Development Administration
Jackson Federal Building, Room 1890
915 Second Ave
Seattle, WA 98174

Re: Phased Disbursement Request - Award No. 07-79-07550

Dear Mr. LoBosco,

The City of Stevenson requests the disbursement for the Wastewater Collection System Upgrade Project be phased. This project is moving forward in conjunction with major upgrades at our wastewater treatment plant, which are mandated by a state Department of Ecology Administrative Order. Due to the nature of the upgrades at the plant and throughout the City's collection system, these projects have specific sequential requirements related to the existing system component's ability to operate, as well as priorities for these projects. For example, the Rock Creek Lift Station Upgrades must be constructed prior to construction of the Kanaka and Cascade Lift Station Upgrade projects, or the Rock Creek Lift Station will not have capacity to manage the nature of flows from these upstream facilities.

Each phase of the project is listed below in the approximate order of their start dates, along with the schedule for completion of each phase and estimated costs.

- Construct Rock Creek Lift Station Upgrades and Cascade Interceptor Upsizing
 - 90% design is complete, final design will be immediately prior to bidding, February 2021
 - Construction schedule is March 2021 through September 2021
 - Total cost \$1.6M - see attached cost estimates
- Design Fairgrounds, Kanaka Creek and Cascade Lift Station Upgrades
 - Design is scheduled for June 2021 through December 2021
 - Estimated cost \$199K - see cost estimate tables included in the Preliminary Engineering Report, attached
- Construct Wastewater Treatment Plant Improvements
 - 90% design is complete, final design will be immediately prior to bidding, July 2021
 - Construction schedule starts with procurement, August 2021 through December 2021 and continues into bidding and site construction through April 2023
 - Total cost \$9.6M- see attached cost estimate

- Construct Main D Extension Segment
 - 90% design is complete, final design will be completed immediately prior to bidding, December 2021
 - Construction schedule is January 2022 through April 2022
 - Total cost \$275K - see attached cost estimate
- Construct Kanaka Creek and Cascade Lift Station Upgrades
 - Construction schedule is March 2022 through August 2022
 - Total cost \$865K - see cost estimate tables included in the Preliminary Engineering Report, attached
- Construct Fairgrounds Lift Station Upgrades
 - Construction schedule is March 2023 through August 2023
 - Total cost \$549K - see cost estimates included in the Preliminary Engineering Report, attached

The City of Stevenson can and will fund any overruns. The City is also capable of paying incurred costs prior to the first disbursement of EDA funds to an extent. The matching funds received for our EDA grant are a loan through the USDA RD program. The USDA loan funds are paid on a reimbursable basis after all other funding is exhausted.

To date the City has spent over \$1.2M on this project, with over \$128k spent on the Rock Creek Lift Station and Cascade Interceptor design. The City has another loan application for \$9.9M in process for the wastewater treatment plant improvements and extension of the collection system. Utility rates have been increasing to cover the future cost of loan repayments and increased operations costs with a larger plant and cash on hand for large infrastructure projects is limited. While interim financing is an option, the ability to have the cost reimbursed towards the end of the project through USDA would not be possible as it would be reimbursing the same costs as the EDA grant. The USDA loan is necessary due to the low interest rate and 40-year payoff option, keeping the annual payments to a minimum. Anything higher would push our rates, which are already at a 2.65% affordability index for 2021, even higher. The rates needed to pay off current and projected loans will already increase the affordability index, kicking it into moderate to severe hardship.

For the reasons outlined above, the City requests phased disbursement for our wastewater collection system upgrade.

Sincerely,



Leana Kinley, City Administrator



Engineer's Opinion of Cost, 90% Design

Rock Creek Pump Station, WE# 1477A

Prepared by Wallis Engineering, JW

City of Stevenson, WA

Date Updated: 11/3/2020

Reviewed by: JV

Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
1.	Mobilization (9%)	1	LS	\$77,000.00	\$77,000.00
2.	Erosion Control and Water Pollution Control	1	LS	\$8,000.00	\$8,000.00
3.	Project Temporary Traffic Control	1	LS	\$25,000.00	\$25,000.00
4.	Trench Safety System	1	LS	\$2,500.00	\$2,500.00
5.	Pipe and Conduit Demolition and Abandonment	1	LS	\$8,000.00	\$8,000.00
6.	Type A Trench Restoration (HMA Trench Patch)	253	SY	\$100.00	\$25,300.00
7.	Type B Trench Restoration (Seeding or Bark Mulch)	22	SY	\$25.00	\$550.00
8.	Concrete Curb Replacement	6	LF	\$50.00	\$300.00
9.	Boulder and Rock Excavation	8	CY	\$150.00	\$1,200.00
10.	DI Sanitary Sewer Force Main, 12-In. Dia.	220	LF	\$150.00	\$33,000.00
11.	DI Small Fitting, 12-In. Dia.	8	LF	\$800.00	\$6,400.00
12.	Connection to WWTP Force Main	1	LS	\$16,000.00	\$16,000.00
13.	Exploratory Excavation	7	EA	\$500.00	\$3,500.00
14.	Rock Creek Bridge Crossing	1	LS	\$110,000.00	\$110,000.00
15.	Combination Air Release Valve Station	1	LS	\$8,000.00	\$8,000.00
16.	Rock Creek Pump Station	1	LS	\$608,476.00	\$608,476.00
	<i>Precast Concrete Structures</i>			\$129,900.00	
	<i>Dewatering</i>			\$15,000.00	
	<i>Demolition</i>			\$8,000.00	
	<i>Connection to Existing Sewer Pipe</i>			\$750.00	
	<i>PVC Sanitary Sewer Pipe, 15-In. Dia.</i>			\$540.00	
	<i>PVC Sanitary Sewer Pipe, 18-In. Dia.</i>			\$2,000.00	
	<i>PVC Sanitary Sewer Pipe, 24-In. Dia.</i>			\$1,250.00	
	<i>Epoxy Coating Wetwell</i>			\$23,136.00	
	<i>Reinforced Concrete Surfacing</i>			\$20,160.00	
	<i>3/4"-0 Base Aggregate</i>			\$2,040.00	
	<i>Electrical Equipment Shelter</i>			\$16,600.00	
	<i>Pipe, Valves & Fittings</i>			\$62,000.00	
	<i>Water Service, RBPA & Yard Hydrant</i>			\$12,000.00	
	<i>Miscellaneous Landscape Restoration</i>			\$2,600.00	
	<i>Submersible Sewage Pumps & Accessories</i>			\$72,000.00	
	<i>Electrical & Controls, Complete</i>			\$189,000.00	
	<i>Bypass Pumping System</i>			\$40,000.00	
	<i>Startup</i>			\$9,500.00	
	<i>Operation & Maintenance Manual</i>			\$2,000.00	
				Subtotal	\$933,226.00
				Sales Tax 7.7%	\$71,859.00
				Contingency (10%)	\$93,322.60
				Bid Schedule Total	\$1,098,407.60



90% Engineer's Opinion of Cost
WWTP Improvements Cascade Interceptor
 City of Stevenson
 WE# 1477A

Date 12/4/2020
 By: AH
 QA by: DB

Item No.	Spec	Item Description	Quantity	Unit	Unit Price	Total Price
1	1-04	Minor Changes	1	FA	\$10,000.00	\$10,000.00
2	1-09	Mobilization	1	LS	\$46,900.00	\$46,900.00
3	1-10	Project Temporary Traffic Control Complete	1	LS	\$24,400.00	\$24,400.00
4	1-05	Construction Surveying and Staking	1	LS	\$10,000.00	\$10,000.00
5	2-03	Boulder Excavation	25	CY	\$500.00	\$12,500.00
6	5-04	Temporary Trench Restoration, 2 In. Depth	355	SY	\$25.00	\$8,875.00
7	5-04	Permanent Roadway Restoration, 4 In. Depth HMA	135	TON	\$120.00	\$16,200.00
8	5-04	2-inch Grind and Inlay	3,840	SY	\$35.00	\$134,400.00
9	7-05	Connection to Existing Sewer Pipe	1	EA	\$750.00	\$750.00
10	7-05	Manholes 60 In. Diam.	6	EA	\$7,500.00	\$45,000.00
11	7-08	Trench Protection System	1	LS	\$4,000.00	\$4,000.00
12	7-08	Abandon Existing Sewer, Complete	1	LS	\$8,000.00	\$8,000.00
13	7-17	PVC Sanitary Sewer Pipe, 18 In. Diam.	680	LF	\$200.00	\$136,000.00
14	7-17	Sewer Bypassing, Complete	1	LS	\$15,000.00	\$15,000.00
15	7-18	Sanitary Sewer Lateral, Far Side	2	EA	\$3,920.00	\$7,840.00
16	7-18	Sanitary Sewer Lateral, Near Side	2	EA	\$3,570.00	\$7,140.00
17	8-01	Erosion Control and Water Pollution Prevention	1	LS	\$1,500.00	\$1,500.00
18	8-02	Landscape Restoration, Complete	1	LS	\$1,200.00	\$1,200.00
19	8-04	Cement Conc. Traffic Curb	304	LF	\$50.00	\$15,200.00
20	8-14	Cement Conc. Sidewalk and Curb Ramps	178	SY	\$100.00	\$17,800.00
21	8-22	Pavement Markings, Complete	1	LS	\$3,186.00	\$3,186.00

Subtotal: \$525,891.00
 Sales Tax @ 7.7%: \$40,494.00
Subtotal (Including Sales Tax): \$566,385.00

10% Contingency: \$56,639.00

BASE BID TOTAL: \$623,024.00

Table 3: Fairgrounds Pump Station Estimated Capital Cost

Description	Quantity	Unit	Unit cost, \$	Cost, \$
Bypass Pumping Connections	1	LS	\$11,000	\$11,000
Flow Meter Vault	1	LS	\$3,200	\$3,200
6" Force Main Relocation	200	LF	\$65	\$13,000
AC Trench Restoration	120	SY	\$50	\$6,000
Wet Well Structural	1	LS	\$53,000	\$53,000
Wet Well Mechanical	1	LS	\$11,000	\$11,000
Valve Vault Structural	1	LS	\$11,000	\$11,000
Valve Vault Mechanical	1	LS	\$27,000	\$27,000
Bypass Manhole	1	EA	\$9,000	\$9,000
<i>Subtotal Sewer Infrastructure</i>				<i>\$144,200</i>
Flow Meter	1	EA	\$5,400	\$5,400
Control Modifications	1	LS	\$5,400	\$5,400
Pumps	2	EA	\$18,000	\$36,000
Control Panels	1	LS	\$64,000	\$64,000
Instrumentation	1	LS	\$16,000	\$16,000
Generator / ATS	1	LS	\$48,000	\$48,000
<i>Subtotal Equipment & Controls</i>				<i>\$174,800</i>
Electrical Conduit, Materials, Equip Install	1	LS	\$26,400	\$26,400
Abandon Existing Facilities	1	LS	\$11,000	\$11,000
Bypass Work	1	LS	\$14,200	\$14,200
Erosion Control	1	LS	\$5,500	\$5,500
Civil Site Work, Utilities & Restoration	1	LS	\$47,300	\$47,300
<i>Construction Subtotal</i>				<i>\$423,400</i>
Contractor O&P	12%	of Sub Cost		\$50,808
Mobilization, demobilization, bond	6%	of Sub cost		\$25,404
<i>Total estimated current construction cost</i>				<i>\$499,612</i>
Escalation from initial estimate	10%			\$49,961
<i>Total Estimated Construction Cost w/o Contingency & Engr</i>				<i>\$549,573</i>
Contingency	20%			\$109,915
Engineering Design	13%			\$82,436
Construction Management	10%			\$65,949
Sales Tax	8.8%			\$58,035
<i>Total Estimated Construction Cost</i>				<i>\$718,000</i>
<i>Total Estimated Capital Cost</i>				<i>\$866,000</i>

Table 4: Kanaka Pump Station Estimated Capital Cost

Description	Quantity	Unit	Unit cost, \$	Cost, \$
Wet Well Structural	1	LS	\$53,000	\$53,000
Wet Well Mechanical	1	LS	\$11,000	\$11,000
Valve Vault Structural	1	LS	\$11,000	\$11,000
Valve Vault Mechanical	1	LS	\$26,000	\$26,000
Bypass Manhole	1	EA	\$9,000	\$9,000
<i>Subtotal Sewer Infrastructure</i>				<i>\$110,000</i>
Pumps	2	EA	\$21,000	\$42,000
Control Panels	1	LS	\$64,000	\$64,000
Instrumentation	1	LS	\$16,000	\$16,000
Generator / ATS	1	LS	\$53,000	\$53,000
<i>Subtotal Equipment & Controls</i>				<i>\$175,000</i>
Electrical Conduit, Materials, Equip Install	1	LS	\$21,000	\$21,000
Abandon Existing Facilities	1	LS	\$11,000	\$11,000
Bypass Work	1	LS	\$11,000	\$11,000
Erosion Control	1	LS	\$5,500	\$5,500
Civil Site Work, Utilities & Restoration	1	LS	\$43,000	\$43,000
<i>Construction Subtotal</i>				<i>\$376,500</i>
Contractor O&P	12%	of Sub Cost		\$45,180
Mobilization, demobilization, bond	6%	of Sub cost		\$22,590
<i>Total estimated current construction cost</i>				<i>\$444,270</i>
Escalation from initial estimate	10%			\$44,427
Total estimated construction cost				\$488,697
Contingency	20%			\$97,739
Engineering Design	13%			\$73,304.55
Construction Management	10%			\$58,644
Sales Tax	8.8%			\$51,606
Total Estimated Construction Cost				\$638,000
Total Estimated Capital Cost				\$770,000

Table 5: Cascade Avenue Pump Station Estimated Capital Cost

Description	Quantity	Unit	Unit cost, \$	Cost, \$
Bypass Pumping Connections	1	LS	\$11,000	\$11,000
Wet Well Structural	1	LS	\$32,000	\$32,000
Wet Well Mechanical	1	LS	\$5,400	\$5,400
Valve Vault Structural	1	LS	\$8,600	\$8,600
Valve Vault Mechanical	1	LS	\$16,000	\$16,000
Bypass Manhole	1	EA	\$6,400	\$6,400
<i>Subtotal Sewer Infrastructure</i>				\$79,400
Auto Dialer	1	EA	\$2,200	\$2,200
Pumps	2	EA	\$8,000	\$16,000
Control Panels	1	LS	\$43,000	\$43,000
Instrumentation	1	LS	\$11,000	\$11,000
<i>Subtotal Equipment & Controls</i>				\$72,200
Electrical Conduit, Materials, Equip Install	1	LS	\$18,200	\$18,200
Abandon Existing Facilities	1	LS	\$5,400	\$5,400
Bypass Work	1	LS	\$7,000	\$7,000
Erosion Control	1	LS	\$5,400	\$5,400
Civil Site Work, Utilities & Restoration	1	LS	\$34,100	\$34,100
<i>Construction Subtotal</i>				\$221,700
Contractor O&P	12%	of Sub Cost		\$26,604
Mobilization, demobilization, bond	6%	of Sub cost		\$13,302
<i>Total estimated current construction cost</i>				\$261,606
Escalation from initial estimate	10%			\$26,161
Total estimated construction cost				\$287,767
Contingency	20%			\$57,553
Engineering Design	13%			\$43,165
Construction Management	10%			\$34,532
Sales Tax	8.8%			\$30,388
Total Estimated Construction Cost				\$376,000
Total Estimated Capital Cost				\$453,000



**City of Stevenson Wastewater Treatment Plant Improvements
90% Cost Estimate Summary**

WE# 1477A

Updated WWTP Cost Estimate

WWTP Component	Phase 1 Costs
Site Improvements	\$ 770,000
Nonpotable Water System	\$ 220,000
Headworks	\$ 2,159,000
Anoxic-Aeration Basins	\$ 3,678,000
Blower Building	\$ 1,545,000
RAS-WAS	\$ 226,000
Disinfection	\$ 673,000
Lab-Ops Remodel	\$ 390,000
Total	\$ 9,661,000

Notes:

a. All Phase I WWTP costs are in 2020 dollars (ENR CCI 11326).



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Site Improvements

Prepared by Wallis Engineering

WE# 1477A

Date Updated:

6/18/2020

Specification Section	Item Description	Quantity	Unit	Unit Price	Total Price
Storm Drainage and Flood Protection					
10 71 19	Stop Gates for Doorways	2	EA	\$ 4,000.00	\$ 8,000.00
33 40 00	Adjust In-plant Pump Station Wetwell Lid	1	LS	\$ 12,000.00	\$ 12,000.00
33 40 00	8" Gravity storm drains	118	LF	\$ 120.00	\$ 14,160.00
33 40 00	Storm Manholes	1	EA	\$ 8,000.00	\$ 8,000.00
33 05 60	Catch Basins	2	EA	\$ 3,000.00	\$ 6,000.00
	Subtotal Storm Drainage and Flood Protection				\$ 48,160.00
Miscellaneous Site Improvements					
32 31 00	Chain Link Fence and Gates	200	LF	\$ 50.00	\$ 10,000.00
	Miscellaneous Seeding and Landscape Restoration	1	LS	\$ 8,000.00	\$ 8,000.00
32 10 00	Gravel Site Surfacing	800	SY	\$ 30.00	\$ 24,000.00
32 10 00	Asphalt Pavement	460	SY	\$ 90.00	\$ 41,400.00
32 10 00	Concrete Sidewalks	70	SY	\$ 100.00	\$ 7,000.00
32 10 00	Concrete Driveway	75	SY	\$ 180.00	\$ 13,500.00
32 10 00	Concrete Steps	1	LS	\$ 1,200.00	\$ 1,200.00
32 10 00	Reinforced Concrete Sidewalk Wall	73	SF	\$ 120.00	\$ 8,760.00
	RAS Building Modifications	1	LS	\$ 6,000.00	\$ 6,000.00
	Subtotal Miscellaneous Site Improvements				\$ 119,860.00
Electrical					
	Service Transformer	1	LS	\$ 45,000.00	\$ 45,000.00
	Standby Generator	1	LS	\$ 150,000.00	\$ 150,000.00
	Main Switchboard	1	LS	\$ 80,000.00	\$ 80,000.00
	Miscellaneous SCADA Improvements	1	LS	\$ 40,000.00	\$ 40,000.00
	Subtotal Electrical				\$ 315,000.00
	Subtotal Support Facilities				\$483,020.00
	Mobilization (8%)				\$39,000.00
	Total Estimated Construction Cost				\$522,020.00
	Escalation to Time of Construction	3.0%			\$ 15,660.60
	Total Estimated Construction Cost				\$537,680.60
	Sales Tax	7.7%		\$ 537,680.60	\$ 41,401.41
	Contingency	20%		\$ 537,680.60	\$ 107,536.12
	Construction Engineering	12%		\$ 686,618.13	\$ 82,394.18
	Total Capital Cost				\$770,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Nonpotable Water System

Date Updated:

6/22/2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
43 23 31	Vertical Turbine Pumps	2	EA	\$ 18,500.00	\$ 37,000.00
43 42 21	Hydropneumatic Tank	1	EA	\$ 5,000.00	\$ 5,000.00
40 71 13	Flow Meter	1	EA	\$ 4,000.00	\$ 4,000.00
43 61 73	Automatic Self Cleaning Filter	1	EA	\$ 10,900.00	\$ 10,900.00
	Equipment Installation	30%		\$ 56,900.00	\$ 17,070.00
	Subtotal Equipment				\$ 73,970.00
Division 40	Piping and Miscellaneous Mechanical	20%	of Equip	\$ 73,970.00	\$ 14,794.00
40 05 00	Distribution Piping	385	LF	\$ 50.00	\$ 19,250.00
Division 26	Electrical	1	LS	\$ 10,000.00	\$ 10,000.00
		1	LS	\$ 8,000.00	\$ 8,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 126,014.00
	Contractor O&P	12%	of Subtotal	\$ 126,014.00	\$ 15,121.68
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 126,014.00	\$ 7,560.84
	Site Work	5%	of Subtotal	\$ 126,014.00	\$ 6,300.70
	Total Estimated Construction Cost				\$ 154,997.22
	Escalation to Time of Construction	3.0%		\$ 154,997.22	\$ 4,649.92
	Total Estimated Construction Cost				\$ 159,647.14
	Sales Tax	7.7%		\$ 159,647.14	\$ 12,292.83
	Contingency	15%		\$ 159,647.14	\$ 23,947.07
	Construction Engineering	12%		\$ 195,887.04	\$ 23,506.44
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 220,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Headworks

Date Updated:

June 2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Cast-in-Place Concrete Walls	66	CY	\$ 1,520.00	\$ 100,320.00
	Cast-in-Place Concrete Slab and Footings	30	CY	\$ 760.00	\$ 22,800.00
	Grating	395	EA	\$ 30.00	\$ 11,850.00
	Stairs	9	Riser	\$ 550.00	\$ 4,950.00
	Guardrail	120	LF	\$ 125.00	\$ 15,000.00
	Subtotal Structural				\$ 154,920.00
	Fine Screen with Screening bagger	1	EA	\$ 149,300.00	\$ 149,300.00
	Manually-cleaned Bar Screen	1	EA	\$ 3,000.00	\$ 3,000.00
	Grit Mechanism, Turbo Grit Pump, Cyclone, Grit Washer	1	EA	\$ 250,000.00	\$ 250,000.00
	Grit Pump Spare Rotating Assembly (Volute, Impeller, Motor)	1	EA	\$ 27,500.00	\$ 27,500.00
	Grit Washer and Piping Heat Tracing and Insulation	1	EA	\$ 50,000.00	\$ 50,000.00
	Grit System 316 SS Adder and Spare Parts	1	EA	\$ 15,000.00	\$ 15,000.00
	All-Weather Sampler	1	EA	\$ 5,000.00	\$ 5,000.00
	pH-Temperature Analyzer and Transmitter	1	EA	\$ 3,000.00	\$ 3,000.00
	RS Magnetic Flow Meter	1	EA	\$ 10,000.00	\$ 10,000.00
	RS Magnetic Flow Meter Precast Concrete Vault	1	ea	\$ 5,000.00	\$ 5,000.00
	Stop Gates - Screen Channels (4), Bar Rack (2), Grit Chamber (3)	9	EA	\$ 3,000.00	\$ 27,000.00
	Slide Gates - Dist Box (2)	2	EA	\$ 6,000.00	\$ 12,000.00
	Weirs	3	EA	\$ 1,000.00	\$ 3,000.00
	Equipment Installation	30%		\$ 559,800.00	\$ 167,940.00
	Subtotal Equipment				\$ 727,740.00
	Piping and Miscellaneous Mechanical	30%	of Equip	\$ 727,740.00	\$ 218,322.00
	Electrical	1	LS	\$ 60,000.00	\$ 60,000.00
	Instrumentation and Control (I&C)	1	LS	\$ 30,000.00	\$ 30,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 1,190,982.00
	Contractor O&P	12%	of Subtotal	\$ 1,190,982.00	\$ 142,917.84
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 1,190,982.00	\$ 71,458.92
	Site Work	5%	of Subtotal	\$ 1,190,982.00	\$ 59,549.10
	Total Estimated Construction Cost				\$ 1,464,907.86
	Escalation to Time of Construction	3.0%		\$ 1,464,907.86	\$ 43,947.24
	Total Estimated Construction Cost				\$ 1,508,855.10
	Sales Tax	7.7%		\$ 1,508,855.10	\$ 116,181.84
	Contingency	20%		\$ 1,508,855.10	\$ 301,771.02
	Construction Engineering	12%		\$ 1,926,807.96	\$ 231,216.95
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 2,159,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Anoxic-Aeration Basins

Date Updated:

June 2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Earthwork	5,960	CY	\$ 15.00	\$ 89,400.00
	Shoring	7,400	SF	\$ 16.00	\$ 118,400.00
	Dewatering	56	Day	\$ 250.00	\$ 14,000.00
	Oxidation Ditch Structure Modifications	1	LS	\$ 10,000.00	\$ 10,000.00
	Concrete Walls - Aeration Basin and Anoxic Basins	473	CY	\$ 1,520.00	\$ 718,960.00
	Concrete Bottom Slab - AB and AO Basins, Dist Box	235	CY	\$ 760.00	\$ 178,600.00
	Grating - Aeration Basin and Anoxic Basins	74	SF	\$ 30.00	\$ 2,220.00
	Mixed Liquor Dist Box - Concrete Walls	74	CY	\$ 900.00	\$ 66,600.00
	Mixed Liquor Dist Box - Grating	385	CY	\$ 30.00	\$ 11,550.00
	Stairs	10	Riser	\$ 550.00	\$ 5,500.00
	Guardrail	375	LF	\$ 125.00	\$ 46,875.00
	Subtotal Structural				\$ 1,262,105.00
	Aeration Diffuser Systems	1	LS	\$ 110,000.00	\$ 110,000.00
	DO Probe	2	EA	\$ 3,000.00	\$ 6,000.00
	ORP Probe	0	EA	\$ 2,000.00	\$ -
	DO/ORP Transmitter	2	EA	\$ 3,000.00	\$ 6,000.00
	Mixers	2	EA	\$ 20,000.00	\$ 40,000.00
	Rotary Scum Skimmer	2	EA	\$ 30,000.00	\$ 60,000.00
	Circulation Pumps	3	EA	\$ 30,000.00	\$ 90,000.00
	ML Recycle Magnetic Flow Meter	1	EA	\$ 5,000.00	\$ 5,000.00
	ML Recycle Magnetic Flow Meter Precast Concrete Vault	1	EA	\$ 5,000.00	\$ 5,000.00
	Davit Crane	1	EA	\$ 5,000.00	\$ 5,000.00
	Gates - Anoxic Basins (4), Aeration Basins (1), OD (1)	6	EA	\$ 6,000.00	\$ 36,000.00
	Mixed Liquor Dist Box Gates to Clarifiers (4)	4	EA	\$ 6,000.00	\$ 24,000.00
	Weirs	6	EA	\$ 1,000.00	\$ 6,000.00
	Life Ring Enclosures	2	EA	\$ 1,000.00	\$ 2,000.00
	Equipment Installation	30%		\$ 395,000.00	\$ 118,500.00
	Subtotal Equipment				\$ 513,500.00
	Piping and Miscellaneous Mechanical	30%	of Equip	\$ 513,500.00	\$ 154,050.00
	Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
	Instrumentation and Control (I&C)	1	LS	\$ 50,000.00	\$ 50,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 2,029,655.00
	Contractor O&P	12%	of Subtotal	\$ 2,029,655.00	\$ 243,558.60
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 2,029,655.00	\$ 121,779.30
	Site Work	5%	of Subtotal	\$ 2,029,655.00	\$ 101,482.75
	Total Estimated Construction Cost				\$ 2,496,475.65
	Escalation to Time of Construction	3.0%		\$ 2,496,475.65	\$ 74,894.27
	Total Estimated Construction Cost				\$ 2,571,369.92
	Sales Tax	7.7%		\$ 2,571,369.92	\$ 197,995.48
	Contingency	20%		\$ 2,571,369.92	\$ 514,273.98
	Construction Engineering	12%		\$ 3,283,639.39	\$ 394,036.73
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 3,678,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Blower Building

Date Updated:

June 2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Doors	1	LS	\$ 8,100.00	\$ 8,100.00
	Roofing, Insulation, Trim, Gutters	1	LS	\$ 38,562.00	\$ 38,562.00
	Painting, Sealants, Interior Trim	1	LS	\$ 8,208.00	\$ 8,208.00
	CMU	1,834	SF	\$ 24.00	\$ 44,016.00
	Slab, Footing, Stem Wall	1	LS	\$ 12,128.00	\$ 12,128.00
	Roof Framing	1	LS	\$ 4,802.00	\$ 4,802.00
	Subtotal Structural				\$ 115,816.00
	Aeration Blowers	3	EA	\$ 55,000.00	\$ 165,000.00
	Air Flow Meters	3	EA	\$ 2,000.00	\$ 6,000.00
	Equipment Installation	30%		\$ 171,000.00	\$ 51,300.00
	Subtotal Equipment				\$ 222,300.00
	Piping and Miscellaneous Mechanical	15%	of Equip	\$ 222,300.00	\$ 33,345.00
	Heating and Ventilation	1	LS	\$ 31,086.00	\$ 31,086.00
	Electrical	1	LS	\$ 350,000.00	\$ 350,000.00
	Instrumentation and Control (I&C)	1	LS	\$ 100,000.00	\$ 100,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 852,547.00
	Contractor O&P	12%	of Subtotal	\$ 852,547.00	\$ 102,305.64
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 852,547.00	\$ 51,152.82
	Site Work	5%	of Subtotal	\$ 852,547.00	\$ 42,627.35
	Total Estimated Construction Cost				\$ 1,048,632.81
	Escalation to Time of Construction	3.0%		\$ 1,048,632.81	\$ 31,458.98
	Total Estimated Construction Cost				\$ 1,080,091.79
	Sales Tax	7.7%		\$ 1,080,091.79	\$ 83,167.07
	Contingency	20%		\$ 1,080,091.79	\$ 216,018.36
	Construction Engineering	12%		\$ 1,379,277.22	\$ 165,513.27
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 1,545,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

RAS-WAS

Date Updated: 6/18/2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Electrical	1	LS	\$ 60,000.00	\$ 60,000.00
	Instrumentation and Control (I&C)	1	LS	\$ 70,000.00	\$ 70,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 130,000.00
	Contractor O&P	12%	of Subtotal	\$ 130,000.00	\$ 15,600.00
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 130,000.00	\$ 7,800.00
	Total Estimated Construction Cost				\$ 153,400.00
	Escalation to Time of Construction	3.0%		\$ 153,400.00	\$ 4,602.00
	Total Estimated Construction Cost				\$ 158,002.00
	Sales Tax	7.7%		\$ 158,002.00	\$ 12,166.15
	Contingency	20%		\$ 158,002.00	\$ 31,600.40
	Construction Engineering	12%		\$ 201,768.55	\$ 24,212.23
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 226,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

UV Disinfection

Date Updated:

June 2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Earthwork	100	CY	\$ 15.00	\$ 1,500.00
	Shoring	600	SF	\$ 15.00	\$ 9,000.00
	Dewatering	14	Day	\$ 250.00	\$ 3,500.00
	Cast-in-Place Concrete Slab	7	CY	\$ 760.00	\$ 5,320.00
	Cast-in-Place Concrete Walls	13	CY	\$ 1,520.00	\$ 19,760.00
	Modify Existing Channel - Cut openings to new channel	28	LF	\$ 100.00	\$ 2,800.00
	Galvanized Steel Grating	160	SF	\$ 30.00	\$ 4,800.00
	Subtotal Structural				\$ 46,680.00
	UV Equipment (for 2 channels, 1 bank/channel)	1	LS	\$ 165,000.00	\$ 165,000.00
	Effluent Sampler	0	EA	\$ 5,000.00	\$ -
	Effluent Channel #2 Level Transducer	1	EA	\$ 3,000.00	\$ 3,000.00
	Slide Gates	2	EA	\$ 5,000.00	\$ 10,000.00
	Weirs	2	EA	\$ 1,000.00	\$ 2,000.00
	Equipment Installation	30%		\$ 180,000.00	\$ 54,000.00
	Subtotal Equipment				\$ 234,000.00
	Piping and Miscellaneous Mechanical	30%	of Equip	\$ 234,000.00	\$ 70,200.00
	Electrical	1	LS	\$ 10,000.00	\$ 10,000.00
	Instrumentation and Control (I&C)	1	LS	\$ 10,000.00	\$ 10,000.00
	Subtotal Structural, Mechanical, Elect, I&C				\$ 370,880.00
	Contractor O&P	12%	of Subtotal	\$ 370,880.00	\$ 44,505.60
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 370,880.00	\$ 22,252.80
	Site Work	5%	of Subtotal	\$ 370,880.00	\$ 18,544.00
	Total Estimated Construction Cost				\$ 456,182.40
	Escalation to Time of Construction	3.0%		\$ 456,182.40	\$ 13,685.47
	Total Estimated Construction Cost				\$ 469,867.87
	Sales Tax	7.7%		\$ 469,867.87	\$ 36,179.83
	Contingency	20%		\$ 469,867.87	\$ 93,973.57
	Construction Engineering	12%		\$ 600,021.27	\$ 72,002.55
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 673,000.00



City of Stevenson Wastewater Treatment Plant Improvements

90% Cost Estimate

Laboratory-Operations Building Remodel

Date Updated:

June 2020

WE# 1477A

Specification Section	Description	Quantity	Unit	Unit Price	Cost
	Lab-Ops Building Remodel	275	SF	\$ 100.00	\$ 27,500.00
	Subtotal Structural				\$ 27,500.00
	Contractor Laboratory Equipment, Casework, and Furniture	1	LS	\$ 55,000.00	\$ 55,000.00
	Owner Furnished Lab Equipment	1	LS	\$ 50,000.00	\$ 50,000.00
	Contractor Equipment Installation	20%		\$ 55,000.00	\$ 11,000.00
	Subtotal Equipment				\$ 116,000.00
	Plumbing and Miscellaneous Mechanical	1	LS	\$ 50,709.00	\$ 50,709.00
	Electrical	1	LS	\$ 30,000.00	\$ 30,000.00
	Instrumentation and Control (I&C)		LS		\$ -
	Subtotal Structural, Mechanical, Elect, I&C				\$ 224,209.00
	Contractor O&P	12%	of Subtotal	\$ 224,209.00	\$ 26,905.08
	Mobilization, Demobilization, Bond	6%	of Subtotal	\$ 224,209.00	\$ 13,452.54
	Site Work	0%	of Subtotal	\$ 224,209.00	\$ -
	Total Estimated Construction Cost				\$ 264,566.62
	Escalation to Time of Construction	3.0%		\$ 264,566.62	\$ 7,937.00
	Total Estimated Construction Cost				\$ 272,503.62
	Sales Tax	7.7%		\$ 272,503.62	\$ 20,982.78
	Contingency	20%		\$ 272,503.62	\$ 54,500.72
	Construction Engineering	12%		\$ 347,987.12	\$ 41,758.45
	Total Estimated Construction Cost w/ Contingency and Sales Tax				\$ 390,000.00



90% Engineer's Opinion of Cost
WWTP Improvements - Main D Extension
City of Stevenson, WA
WE# 1477A

Date: 9/23/2020
 By: AH
 QA by: DB

Item No.	Spec	Item Description	Quantity	Unit	Unit Price	Total Price
1.	1-04	Minor Changes	1	FA	\$5,000.00	\$5,000.00
2.	1-09	Mobilization	1	LS	\$19,710.00	\$19,710.00
3.	1-10	Project Temporary Traffic Control, Complete	1	LS	\$17,400.00	\$17,400.00
4.	1-05	Construction Surveying and Staking	1	LS	\$5,000.00	\$5,000.00
5.	2-03	Boulder Excavation	15	CY	\$500.00	\$7,500.00
6.	5-04	Temporary Trench Restoration, 2 In. Depth	340	SY	\$30.00	\$10,200.00
7.	5-04	Permanent Trench Restoration, 4 In. Depth HMA	140	TON	\$150.00	\$21,000.00
8.	7-05	Connections to Existing Manholes	1	EA	\$750.00	\$750.00
9.	7-05	Manhole 48 In. Diam. Type Sewer	3	EA	\$6,000.00	\$18,000.00
10.	7-08	Trench Protection System	1	LS	\$1,000.00	\$1,000.00
11.	7-08	Dewatering	1	LS	\$15,000.00	\$15,000.00
12.	7-17	PVC Sanitary Sewer Pipe, 6 In. Diam.	15	LF	\$85.00	\$1,275.00
13.	7-17	PVC Sanitary Sewer Pipe, 8 In. Diam.	900	LF	\$90.00	\$81,000.00
14.	7-18	Sanitary Sewer Lateral, Near Side	5	EA	\$1,500.00	\$7,500.00
15.	7-18	Sanitary Sewer Lateral, Far Side	1	EA	\$3,500.00	\$3,500.00
16.	7-19	Stub Marker Cleanout 8 In. Diam.	1	EA	\$900.00	\$900.00
17.	7-19	Stub Marker Cleanout 6 In. Diam.	1	EA	\$300.00	\$300.00
18.	8-01	Erosion Control and Water Pollution Prevention	1	LS	\$1,500.00	\$1,500.00
19.	8-06	Cement Conc. Driveway Entrance	16	SY	\$150.00	\$2,400.00
20.	8-14	Cement Conc. Curb and Sidewalk	8	SY	\$120.00	\$960.00
21.	8-22	Permanent Pavement Markings, Complete	1	LS	\$1,900.00	\$1,900.00

Subtotal: \$221,795.00
 Sales Tax @ 7.7%: \$17,078.22
Subtotal (Including Sales Tax): \$238,873.22

15% Contingency: \$35,830.98

BASE BID TOTAL: \$274,704.20