



**Request for Proposals (RFP)
RFP # VSW-KTB-2019-20
(Re-Advertising)**

Addendum Two

**Department of Environmental Conservation
Village Safe Water Program**

**City of Thorne Bay, Alaska
General Contractor Services for Construction of Water Plant and
Wastewater Plant Improvements**

Date of Issue: February 27, 2019

The RFP Package is hereby clarified or changed as follows:

1. Submittal deadline is not changed
2. Remove and Replace
3. Questions and Answers
4. Attachments

The remove and replace, questions and answers and attachments begin on page 2. This Addendum is hereby made part of the RFP and is a total of 3 pages (not including attachments).

All other terms and conditions for this RFP remain unchanged.

Issued by: Fred Parrish
Procurement Officer
(907) 269-7674

2. Remove and Replace

Remove Attachment G, Schedule of Values, and replace with Attachment A, Schedule of Values (revised 2-25-19).

3. Questions and Answers

Question 1: WTP spec 102824 Emergency Eyewash and Safety Eqpt indicates in section 2.3 that a tempered water valve is to be provided but it does not appear that hot water is available in the plant. Please advise.

Answer 1: The City of Thorne Bay will install a new hot water heater at the water treatment plant. The Contractor is to provide the tempered valve as specified to make way for the incoming hot water heater.

Question 2: Regarding the note on G02 to remove the bypass valve colored red and install blind flanges. Where are the nearest isolation valves located upstream of the raw water side and downstream on the distribution side that allow this section to be shut down and drained? Asking the question to understand the overall impact since sheets D03 and D09 do not seem to illustrate this portion of the work.

Answer 2: Based on historical record drawings, there is suspicion that a cross contamination potential exists. For the purposes of bidding the project, bidders shall assume the valve cluster must be exposed by excavating to a depth of 6'. The valves to and from the plant shall be closed, and raw water pump turned off. There is no isolation valve between the valve cluster and Water Lake. The normally closed valve between the two water lines going up to the treatment plant shall be removed, and blind flanges placed on both sides. The valve cluster would be covered and fill would be compacted and brought back up to grade. A new pay item in the Schedule of Values has been created for this work, Item A1.7, reference Attachment A.

Question 3: Phase 3 question regarding the removal/disposal note on WWTP sheet M01 of the telescoping valve. Please clarify. The drawing is only showing a stem and a hand wheel. Is the stem and hand wheel the only items or is a valve also involved? If a valve is involved, please describe with more detail.

Answer 3: A photo (Attachment B) of the handwheel and riser is appended, as well as a record drawing (Attachment C). The Contractor is to remove and dispose of the valve stem and associated frame to allow for the installation of the grate walkway and stairs. The valve is no longer used, therefore, the Contractor only needs to remove the top portion for installation of the walkway and stairs.

Question 4: Drawing SO2 - is the existing 6" concrete curb to be cut out per note at detail 3/S02 - 5 locations or just the two? Are curbs cut out at details 1/S06 and 2/S06?

Answer 4: The 6” wide concrete curb will be cut out at the 5 locations described by details 3/S02, 1/S06, and 2/S06.

Question 5: Drawing S02 – Foundation plan, west end – section cut is 1/S05, however see detail 3/S05 and A/S05 – both these show a 3’ deep wall or footing in elevation? – Please clarify.

Answer 5: Correct, all three details mentioned (1/S05, 3/S05, and A/S05) show a 3’ deep footing below the steel portal frame at the overhead door opening.

Question 6: Drawing S03 – Column Schedule – C7 – Base plate, the ref is 3/S4.1 (not finding S4.1)?

Answer 6: This is an outdated reference; it should instead read “REF. 3/S05”.

Question 7: Drawing S02 – Foundation plan, west and east ends – both new footings show the overlap the existing footing at the corner of the existing building? Please clarify.

Answer 7: Correct, the existing curb, slab, and footing should be cut back just enough to allow the new footings to extend into the existing building as shown.

4. Attachments

The following attachments are now added to the RFP:

- A. Schedule of Values, (revised 2-25-19) (eight pages)
- B. Project Photo (one page)
- C. Updated Record Drawing (one page)

Offerors must acknowledge receipt of this addendum prior to the submittal deadline.

The proposal documents require acknowledgment individually of all addenda to the drawings and/or specifications. This is a **mandatory requirement** and any proposal received without acknowledgment of receipt of addenda may be classified as not being a responsive proposal.

End of Addendum

Addendum Two, Attachment A

RFP -- Water Plant Improvement

City of Thorne Bay

page 1 of 8

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
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Schedule A	Water Plant Building and Power Supply Upgrades		Schedule A1 through A9 Subtotal =		
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A1.0	General Conditions			A1 Subtotal =	
A1.1	Superintendent	ea	1		
A1.2	Housing and travel	ls	1		
A1.3	Material Procurement*	ls	Included in the itemized costs		
A1.4	Equipment mobilization*	ls	1		
A1.5	Engineering and Quality Control*	ea	1		
A1.6	Safety planning and equipment*	ea	1		
A1.7	Cross Connection Elimination As Shown on G02	ls	1		

*present an itemized list.

A2.0	Building Demolition			A2 Subtotal =	
A2.1	remove building siding and trim, and associated equipment	sf	1396		
A2.2	remove roofing and roof structure	sf	1938		
A2.3	remove columns and footing bases along outside northwest wall	ea	7		
A2.4	remove and temporarily house the generator.	ls	1		
A2.5	demolish the generator walls and mechanical equipment	lf	29		
A2.6	remove sections of existing northwest wall for wall columns and doors.	ea	4		

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
A2.7	dispose of demolition waste.	tons	13		
A3.0	Building Addition Foundation			A3 Subtotal =	
A3.1	overexcavate building addition footprint area	cy	27		
A3.2	Install drain piping around northwest and northeast ends of building, and under slab area. Bed pipe with NFS material per the specifications.	lf	106		
A3.3	Install raw water pump feeder, area light, and the KRBD Radio Repeater (notes 6, 8, and 10 on sheet E02.)	lf	140		
A3.4	Lay and compact subgrade, 3/4-inch minus material, 1-foot depth	sf	740		
A3.5	form and place reinforcement steel in slab and thickened slab foundation. (12 in x 12 in, 36 in x 36 in, 24 in x 24 in)	sf	576		
A3.6	Pour and finish slab and foundation	cy	28.4		
A3.7	Inspection by Engineer (by others)				
A4.0	Building Addition Walls and Roof			A4 Subtotal =	
A4.1	Erect roof columns in the existing northwest wall	ea	2		
A4.2	exterior wall: frame, insulate, and apply vapor and air retarder (quantity is frame sf)	sf	700		
A4.3	interior wall: frame, insulate, and apply vapor and air retarder (quantity is the frame quantity for partition and center wall).	sf	610		
A4.4	Erect portal frame (anchor and frame W6x16)	lbs	614		
A4.5	frame the new roof (include glulam beam)	sf	2058		
A4.6	finish the interior walls	sf	2620		
A4.7	finish the new roof	sf	2058		

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
A4.8	finish exterior walls	sf	700		
A4.9	Install the overhead door to the new building addition and finish	ea	1		
A4.10	Install interior doors and hardware	ea	3		
A4.11	Install exterior doors and hardware	ea	1		
A4.12	Inspection by Engineer (by others)				
A5.0	Mechanical, Building			A5 Subtotal =	
A5.1	Install chemical room ventilation, fans and venting	ea	2		
A5.2	Install building addition Toyo Stove and fuel lines	ea	2		
A5.3	Install generator, and generator battery charger	ea	1		
A5.4	Install gravity louver, air control dampers (and associated actuators).	ls	1		
A5.5	Install fuel supply and storage. (reuse existing tank)	ls	1		
A5.6	Inspect and test the generator, fan, and heater installation and function (by others)				
A6.0	Electrical Service Replacement			A6 Subtotal =	
A6.1	Demolish existing electrical service	ls	1		
A6.2	Develop plan to maintain service during electrical change over and execute it.	ls	1		
A6.3	Install service drop, disconnect and meter base	ls	1		
A6.4	Relocate MDP, and install Panel A and the transformer (item 5 on the sheet E08 equipment schedule).	ls	1		

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
A6.5	Mount the WTCP (equipment provided by others). Wire to Panel A. Wire to ethernet. (E13)	ls	1		
A6.6	Wire equipment including starter/disconnect to MDP and WTCP (sheet E10): Air Pump (B-200), Backwash Pump (P-410)	ls	1		
A6.7	Connect new lake service line to the relocated MDP.	ls	1		
A6.8	Wire equipment (and any associated starter/disconnects) to Panel A and WTCP: Re-circ pump (P-410), domestic water pump (DWP-1), Exhaust fans (EF-1, EF-2, and EF-3), and unit heaters.	ls	1		
A6.9	Wire chemical feed pumps and chemical feed outlets to Panel A and WTCP (Sheet E11): Polymer pump (CF-100), Chlorine feed pump (CF-500), Soda Ash Pump (CF-501)	ls	1		
A6.10	Wire lights and fixtures per sheet E05. Wire receptacles per sheet E04.	ls	1		
A6.11	Wire existing instruments to Panel A and WTCP: turbidimeters, flow meters.	ls	1		
A6.12	Inspect and test equipment and instrument operational function by engineer (by others)				
A6.13	Provide 120 Volt power to operate the turbidimeters on the wall opposite from the filters. Mount turbidity signal transmitters and wire transmitters to the WTCP.	ls	1		
A7.0	Automate the filters			A7 Subtotal =	
A7.1	Confirm the existing Bray valve viability				
A7.2	Install air blower and plumb the air piping for air scour	ls	1		
A7.3	Mount and wire the air and water valve motors and test the motor function -- closing, closed, opening, and opened.	ls	1		

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
A7.3i	Relocate turbidimeters and transmitters on wall opposite the direct filters. Install new Hach TU5300 filter turbidimeters to monitor individual and combined filter effluent turbidity.	ls	1		
A7.4	Inspection and testing of wiring.	ls	1		
A7.5	Start up by others (WTCP integrator). Contractor, including electrical and mechanical, to be on site for inspection and assist with start up.				
A7.6	Training (by others)				
A8.0	Nanofiltration Equipment			A8 Subtotal =	
A8.1	Plumb the NF unit, supply, return, and waste piping.	ls	1		
A8.2	Install and plumb the nanofiltration unit and equipment (owner provided, manufactured by Pure Aqua).	ls	1		
A8.3	Wire the nanofiltration control panel. Provide all field wiring connections (power and control) to the nanofiltration control panel and equipment.	ls	1		
A8.4	Inspect and test plumbing and electrical associated with nanofiltration equipment and instruments.	ls	1		
A8.5	Start up the nanofiltration unit. Requires Pure Aqua start up representative, Engineer, and the System Integrator (owner furnished)	ls	1		
A8.6	Inspect and test equipment and instrument operational function by engineer and Pure Aqua (by others)				
A8.7	Training (by others)				
A9.0	Self Back-washing Screen			A9 Subtotal =	

Schedule of Values, (revised 2-25-19)

Item	Description	units	quantity	Unit Price	Total
A9.1	Install Self Back-washing equipment* (BS-1). Requires equipment submittal.	ls	1		
A9.2	Wire the Self Back-washing Screen (BS-1) to Panel A and WTCP.	ls	1		
A9.3	Inspection by Engineer (by others)				

* includes contractor procured equipment.

Note that cost score will be based on the Total value.

Total Schedule A =

Schedule of Values

Item	Description	units	quantity	Unit Price	Total
Schedule B	Wastewater Plant UV Disinfection Project		Schedule B1 and B2 Subtotal =		
B1.0	UV Disinfection Project General Conditions			B1 Subtotal =	
B1.1	Superintendent	ea	1		
B1.2	Housing and travel	ls	1		
B1.3	Material Procurement*	ls	Included in the itemized costs		
B1.4	Equipment mobilization*	ls	1		
B1.5	Engineering and Quality Control*	ea	1		
B1.6	Safety planning and equipment*	ea	1		
B2.0	UV Disinfection			B2 Subtotal =	
B2.1	Complete demolition of chlorine contact basin elements per the plans -- Remove the broad crested weir, portion of hand rail, telescoping valve.	ls	1		
B2.1	Construct tee and valving from the extended aeration line that enters the contact basin. Run the pipe to the new UV bank channel through the existing wall and new bulkhead.	ls	1		
B2.2	Complete steel work including W10x22 I beam, framing for the steel grating, etc.	ls	1		
B2.3	Raise the UV Channel floor with clean gravel and a new reinforced concrete floor. Construct new reinforced concrete UV channel walls. Construct new reinforced concrete bulkhead with penetration for the new extended aeration supply piping.	ls	1		
B2.4	Construct the pad for hoist and UV related equipment. Install the hoist.	ls	1		
B2.5	Install remaining steel works -- pipe support, grated platform, stairs, stair rails.	ls	1		

Schedule of Values

Item	Description	units	quantity	Unit Price	Total
B2.6	Install the extended aeration liquid supply piping, support frame work, and associated type I and II wall penetrations.	ls	1		
B2.7	Install the owner furnished Glasco UV Equipment -- Includes 2 each UV units, level control weir, and air compressor.	ls	1		
B2.8	Install new circuits and breakers in the Panel LM. Install Buck-boost transformer. Install Sensaphone.	ls	1		
B2.9	Install buried power and control wire to the UV Control Panel. Wire the Flow Meter, Float Switch, and UV Units.	ls	1		
B2.10	Inspect the installation. Startup the UV system with the Engineer and Glasco representative.				
B2.11					

Additive Alternate

B3.0	Wastewater Plant -- Back Up Power Generator		Additive Alternate B3 Subtotal =		
B3.1	Construct Generator Pad. Place the new generator.	ls	1		
B3.2	Install emergency power and control circuits and normal power circuits to the Automatic transfer switch	ls	1		
B3.3	Install Automomatic Transfer Switch	ls	1		
B3.4	Relocate outside lighting panel to accommodate the ATS.	ls	1		
B3.5	Route Feeder from ATS to HDMP	ls	1		
B3.6	Inspect and test by others including Engineer				

Schedule A1 through A9 Subtotal =

Schedule B1 and B2 Subtotal =

Additive Alternate B3 Subtotal =

Total Schedule A and B and additive alternate(s) =



