



**CITY OF CAMAS**  
Memorandum

**TO:** Mayor and City Council

**FROM:** James Hodges, Project Manager

**DATE:** 01/29/2019

**SUBJECT:** Crown Road Booster Station Upgrade Project Summary

The Crown Road Booster Station is located at the northern intersection of NE Crown Road and NE Strong Road about 0.5 miles north of NE 3<sup>rd</sup> Avenue. The station is designed to move, or pump, drinking water from the well field and downtown area of Camas up to the area that serves the Hills at Round Lake and other neighboring developments. The station was constructed in 2009 as a condition of development for the Hills at Round Lake. After analyzing the City's water system over the last few months, staff believes it is prudent to increase our available water to serve the northwesterly portion of the City prior to this year's peak demand season (July and August). Staff's intent is to complete an upgrade to the Crown Road Booster Station to achieve this goal.

The Crown Road Booster Station was constructed with room for four (4) pumps with the expectation that it would have an ultimate capacity of 4,800 gallons per minute (GPM). Currently, the station is fitted with two pumps (#1 & #2) that will each pump up to 800 GPM (1,600 GPM total). In addition to serving the developments mentioned above, the booster station pumps water to the Gregg Reservoir located across from Camas High School, which can ultimately provide water to the northern half of Grass Valley, Lake Heights, Lake Pointe, Lacamas Shores, and other developments in the northwesterly portion of the City.

The current project proposes to install a third pump and motor assembly that will deliver up to an additional 1,600 GPM. Some of the components required to successfully complete the project have long lead times, including the pump, motor, and the Motor Control Center Panel, which is expected to be delivered four months after ordering. Staff would like to have this new pump operational no later than July 1<sup>st</sup> of this year. For this reason, upon approval of the project by the Camas City Council, staff is proposing to order these items immediately. Once all of the equipment and components are delivered, staff proposes to get quotes for the electrical and mechanical work required for a complete installation. Programming and integration of the new pump into our existing SCADA system will be performed by our integrator Stead & Associates.

Staff is requesting approval of the project up to the \$150,000 total budget amount as estimated below.

▪ Gray & Osborne – consultant services for drawings, modeling, start-up, etc	\$20,000
▪ Mather & Sons, Inc. - 150 HP motor, 1,600 GPM pump, complete	\$36,000
▪ Stead & Associates - Siemens MCC Panel - Motor Control Panel, complete	\$30,000
▪ Stead & Associates – programming and integration of new pump to City's SCADA	\$15,000
▪ <u>Contract Electrical, Mechanical, and installation costs</u>	<u>\$34,000</u>
	Subtotal-
	\$135,000
	<u>10% contingency</u>
	<u>\$15,000</u>
	TOTAL
	\$150,000

The Crown Road Booster Station Upgrade Project was not anticipated during development of the 2019/2020 Budget. As such, Staff is proposing to move the necessary funds from the “343 Pressure Zone Transmission System” Project, which is included in the 2019 Budget, to complete the proposed Crown Road Booster Station upgrade. At this time, Staff believes there will still be sufficient funds in the Transmission System Project budget line item to complete the work anticipated in 2019.

Because of the total cost of the project and the piecemeal approach required to complete it in the timeframe desired, staff is providing this overall summary with a request that Council approve the attached Gray & Osborne consultant services agreement for the Project which has also been included on the February 4, 2019 Regular Meeting Consent Agenda. Staff is also requesting that Council authorize completion of the remainder of the project under the budget framework noted above allowing the Mayor or her designee to sign each of the programming invoices or equipment purchases noted above at the time that it's needed.

Public Works Staff are available to respond to any questions.

