

## 2019 CAPITAL PROJECT NARRATIVES

Each project narrative includes a project description; the purpose; a budget allocation and/or estimated project costs (if known from preliminary engineering at the time of budget preparation); a breakdown of funding sources; and an estimated project schedule. Not all projects will have specific breakdowns of project costs, only budget allocations. Upon completion of preliminary engineering, staff will refine these allocations into specific project costs and budgets.

The projects scheduled for work in 2019 include:

### ***Project 16-2 Pump Station No 8 (Crestview)***

Highline Water District's majority storage facility serving the 560 Pressure Zone is the 7.6 MG Crestview Reservoir. Water stored in Crestview or source water from Seattle Public Utilities must pump through Pump Station 6 (PS6) to enter into the 560 zone.

The 2016 Comprehensive Water System Plan identified the need for a second pump station to serve the 560 zone from SPU and Crestview. The project would improve redundancy and resiliency in the overall water system in the event of a failure of PS6. The new pump station (PS8) will use modern equipment and receive electrical service from Puget Sound Energy, a different electric utility than PS6 (Seattle City Light).

The project's first phase was preliminary engineering, feasibility and a station siting evaluation. The District selected RH2 Engineering to perform the preliminary services. RH2 evaluated ten local properties in the general area of S 160th St and 42nd Ave S. The designers narrowed the search based on elevations, proximity to Crestview Reservoir and PS6, cost and impacts to the neighborhood. RH2 completed the preliminary assessment in December 2016.



The District selected to site the station at the Harper property located at 16032 42nd Ave S. The property housed an existing derelict structure in foreclosure. The home housed criminal activity and was a nuisance for the surrounding properties. The District closed the sale on November 16, 2016. District staff subsequently demolished the structure in early 2017.

RH2 Engineering evaluated several design concepts. The preliminary design includes a 5,000 GPM split-level pump station; pumps and piping are below ground and electrical and equipment storage in an above ground building. RH2 retained Page and Beard Architects to design the above ground building to blend in with the surrounding properties.

Staff coordinated with the City of Tukwila to determine the preliminary requirements for the project. The District obtained the Unclassified Use Permit (UUP) and approval by the City Council in early 2018. The intake and outlet piping is within existing SeaTac right-of-way will require additional permitting.

The District is currently negotiating for an easement with the property owner of Scott Plaza, located at 16256 Military Rd S. The easement will assist the District by making way for a less complex connection of the discharge piping to the existing pipeline on Military Road S.

Construction is expected to begin in July 2019 and be completed within 12 months.

The District allocated \$2.4 million and \$1.9 million in the 2019 and 2020 budgets, respectively. The total anticipated project cost is \$5.2 million and funded by existing water rates and capital reserves.

**16-2 PUMP STATION No. 8  
ESTIMATED PROJECT COSTS**

<b>CATEGORY</b>	<b>Prior Years</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>TOTAL</b>
Engineering - Design	\$ 228,058	\$ 290,000	\$ 30,000	\$ -	\$ 548,058
Construction			\$ 2,100,000	\$ 1,750,000	\$ 3,850,000
Construction Administration			\$ 210,000	\$ 175,000	\$ 385,000
Staff Labor and Benefits	\$ 16,438	\$ 5,000	\$ 25,000	\$ 15,000	\$ 61,438
Permitting	\$ 12,219	\$ 2,800	\$ 19,500	\$ 5,500	\$ 40,019
Property Acquisition	\$ 238,763	\$ 35,000			\$ 273,763
Miscellaneous / Other	\$ 535	\$ -	\$ 5,000	\$ 5,000	\$ 10,535
Legal		\$ 1,500	\$ 3,500	\$ -	\$ 5,000
<b>TOTAL</b>	<b>\$ 496,013</b>	<b>\$ 334,300</b>	<b>\$ 2,393,000</b>	<b>\$ 1,950,500</b>	<b>\$ 5,173,813</b>

<b>FUNDING FOR PROJECT</b>					
<b>CATEGORY</b>	<b>Prior Years</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>TOTAL</b>
Rates/Reserves	\$ 496,013	\$ 334,300	\$ 2,393,000	\$ 1,950,500	\$ 5,173,813
<b>TOTAL</b>	<b>\$ 496,013</b>	<b>\$ 334,300</b>	<b>\$ 2,393,000</b>	<b>\$ 1,950,500</b>	<b>\$ 5,173,813</b>

<b>ESTIMATED SCHEDULE FOR PROJECT COMPLETION</b>	
<b>Description</b>	<b>Date</b>
Design Engineering (Complete)	March 2019
Award Construction Contract	June 2019
Begin Construction	July 2019
Project Final Completion	June 2020