Project 16-4 Mansion Hill Transmission Main Relocation

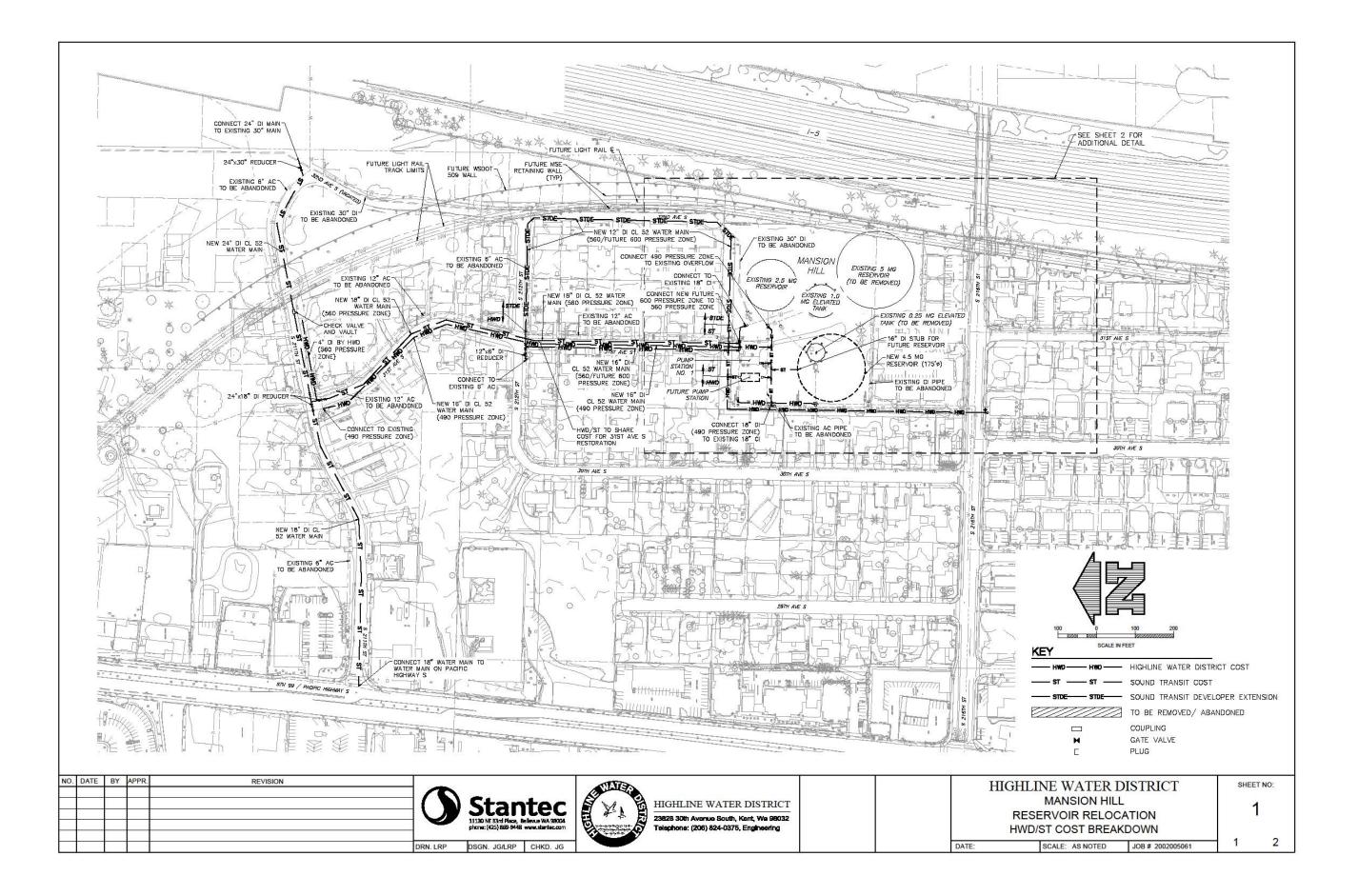
In 2017, the District created Project 16-4 from the preliminary engineering effort of Project 16-3, Mansion Hill Reservoir Relocation. This new project relocates the existing transmission main between the Bow Lake Reservoir to the Mansion Hill Reservoir in conflict with the proposed Sound Transit (ST) Light Rail alignment. The transmission main work predicates the reservoir relocation work on the Mansion Hill site.

The project includes the installation of approximately 3,000 LF of 24" and 18" water mains connecting the existing transmission main to the reservoir site and the distribution system at International Blvd and S 211th St. The new downsized main connected at two discharge locations will improve overall redundancy while maintaining capacity in the 560 Zone near Mansion Hill.

Because the project will disturb the road along 31st Ave S, the District will replace two existing AC water mains within the project limits. The work includes installing approximately 3,300 LF of new 18-inch and smaller sized pipe to serve the 490 pressure zone and future 600 pressure zone. (See Project 18-3 for additional information).

The District executed a contract with Stantec for final design on September 20, 2017. Staff is negotiating the final agreement for reimbursement with ST for approval by the Board by the end of the year. Staff anticipates completing the design and permitting in 2017 and advertise for construction in early 2018. Work will be complete by summer 2018.

The District will fund the project by a combination of existing rates/capital reserves and ST reimbursement. ST anticipated costs are \$2.53 million distributed over 2017 and 2018. HWD anticipated costs for the same years are \$1.74 million, respectively.



16-4 MANSION HILL TRANSMISSION MAIN RELOCATION AND PIPING UPGRADES ESTIMATED PROJECT COSTS

CATEGORY	2017	2018	TOTAL
Capitalized Interest	\$ 1,000	\$ 3,500	\$ 4,500
Engineering - Design	\$ 220,296	\$ 67,000	\$ 287,296
Construction	\$ -	\$ 3,810,000	\$ 3,810,000
Construction Administration	\$ -	\$ 114,300	\$ 114,300
Staff Labor and Benefits	\$ 7,500	\$ 25,000	\$ 32,500
Permitting	\$ 10,000	\$ 3,500	\$ 13,500
Miscellaneous / Other	\$ 2,500	\$ 5,000	\$ 7,500
Legal	\$ 2,500	\$ -	\$ 2,500
TOTAL	\$ 243,796	\$ 4,028,300	\$ 4,272,096

FUNDING FOR PROJECT

I ONDING FOR TROJECT						
CATEGORY		2017		2018		TOTAL
Rates/Reserves	\$	100,000	\$	1,635,466	\$	1,735,466
Sound Transit Reimbursement	\$	143,796	\$	2,392,834	\$	2,536,630
TOTAL	\$	243,796	\$	4,028,300	\$	4,272,096

ESTIMATED SCHEDULE FOR PROJECT COMPLETION

Description	Date				
Design Engineering (Complete)	December 2017				
Award Construction Contract	March 2018				
Begin Construction	April 2018				
Project Final Completion	August 2018				

٦