

Project 17-1 2017 AC Water Main Replacement

The Board of Commissioners authorized Project 17-1 in October 2016 for the 2017 construction season. The District selected Gray and Osborne for design and construction administration services. The four project locations include:

- 3rd Ave SW/3rd Pl SW at SW 200th St in Normandy Park
- S 232nd St & 14th Ave S in Des Moines
- 16th Ave S from S 240th St To KDM in Des Moines
- S 268th St from Military Rd S to 40th Ave S In Kent

This project replaces approximately 7,700 LF of existing AC water mains with new, ductile iron pipe, in addition to new services, hydrants, services and appurtenances. Staff selected the project locations due to recent water main breaks, proximity to sensitive environmental areas and in anticipation of future city overlay projects.

The District advertised and awarded the project to KarVel Construction on June 7, 2017. The bid price was \$1.87 million. Work commenced in August 2017 and scheduled for completion spring 2018.

On September 3, 2017, the District experienced the failure of an existing 6" AC water main on S 176th Street in the City of SeaTac causing significant damage to the road and adjacent properties. The condition, size and material type of the water main indicates a high likelihood of repeated failures in the near future. The Board of Commissioners declared an emergency pursuant to RCW 39.04.280(1)(e) and authorized Staff to retain KarVel through a change order to replace the failing main. The additional work includes approximately 1,100 LF of 12" DI water main.

The District allocated \$2.73 million for the total project costs in years 2017/2018, including the emergency work. The project is funded by existing rates and capital reserves.



17-1 WATERMAIN REPLACEMENT
along S 176th St from 42nd Ave S to Military Rd S
replace 1,160 LF 8" & 12" AC

**17-1 2017 AC WATER MAIN REPLACEMENT PROJECT
ESTIMATED PROJECT COSTS**

CATEGORY	2016	2017	2018	TOTAL
Capitalized Interest	\$ 345	\$ 2,500		\$ 2,845
Engineering - Design	\$ 93,411	\$ 83,000		\$ 176,411
Construction	\$ -	\$ 1,356,000	\$ 1,040,000	\$ 2,396,000
Construction Administration		\$ 55,300	\$ 25,000	\$ 80,300
Staff Labor and Benefits		\$ 52,000		\$ 52,000
Permitting		\$ 25,000		\$ 25,000
Miscellaneous / Other		\$ 2,500		\$ 2,500
Legal		\$ 2,500		\$ 2,500
TOTAL	\$ 93,756	\$ 1,578,800	\$ 1,065,000	\$ 2,737,556

FUNDING FOR PROJECT				
CATEGORY	2016	2017	2018	TOTAL
Rates/Reserves	\$ 93,756	\$ 1,578,800	\$ 1,065,000	\$ 2,737,556
TOTAL	\$ 93,756	#####	#####	#####

ESTIMATED SCHEDULE FOR PROJECT COMPLETION	
Description	Date
Design Engineering (Complete)	May 2017
Award Construction Contract	July 2017
Begin Construction	August 2017
Project Final Completion	March 2018