

Trophy Club Municipal Utility District No. 1  
Water System CIP  
March 2016

Priority	Improvement	Justification	Est. Cost	Fiscal Year	Possible Funding Source
1	Ammonia Feed System	Lower free ammonia provided by Fort Worth. Ammonia needed to add to chlorine for chloramine disinfection of drinking water. Project will include construction of ammonia building and relocation of chlorination system to new building.	\$176,000	2016	Available Reserve Funds
2	16" Water Line Upgrade from Water Plant to East EST	Existing water line is undersized to provide needed capacity to fill tank during peak usage periods. Larger water line will improve pressure in the distribution system and increase capacity for peak demand and fire fighting purposes.	\$2,177,827	2017	Developer Contribution estimated at \$177,827 Tax Bond \$2,000,000 (would require an election in November 2016)
3A	Fort Worth 30" Water Supply Line Phase 2	Fort Worth, TCMUD, and Westlake regional project to improve water supply to our area. Phase 2 picks up the 30" line from the end of Phase 1 to Westlake's pump station off Hwy. 170. Project necessary to increase water supply to TCMUD to 10.3 MGD.	\$4,400,000 (TCMUD Share)	Engineering 2016/2017 Construction 2017/2018 (estimated by City of Fort Worth)	Engineering can be paid from allocated reserve funds with reimbursement from bonds; Construction from Tax Bond (would require an election in November 2016). This project was included in the State plan for SWIFT funding through the State of Texas and an abridged application has been filed with the TWDB.
3B	24" Water Line from Westlake's Pump Station to TCMUD Water Plant	To allow for additional capacity needed for buildout a larger water line is necessary. The water line will also serve as redundancy since currently only one feed from Fort Worth.	\$13,000,000	Engineering 2018 Construction 2019	Engineering budgeted and funded through rates and reserved over two fiscal years. Construction through bond issuance (tax bond and/or revenue bond to be determined at a future date).

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4	High Service Pump Replacements	Increased pump capacity needed to meet peak demand with largest pump out of service (TCEQ requirement). Pumps can be replaced one per year over 3 year period at \$240,000 each as growth continues.	\$720,000	2017 2018 2019	Budget annually as capital expense (funded through water rates) and/or capital lease.
5	Ground Storage Tank	3 MG tank will be necessary in the future to maintain one day's stored system demand. Priority at buildout population.	\$3,000,000	2018	To Be Determined
6	Upgrade Distribution System Choke Points	Pipe segments were identified that are undersized to maintain required minimum pressure of 35 psi during maximum day demands. These "choke points" need to be replaced over time.	\$296,422	2021	Budgeted reserves over time.
7	Elevated Storage Tank	An elevated storage tank in the MUD will be required if connections exceed 4000.	\$1,750,000	Monitor connections and plan for tank before connections exceed 4000.	To Be Determined