

COUNCIL ACTION FORM

**SUBJECT: 2015/16 SANITARY SEWER REHABILITATION
(SANITARY SEWER LINING)**

BACKGROUND:

The ability of the sanitary sewer system to convey wastewater well into the future is dependent on the removal of the current large amount of infiltration and inflow (I&I, or I/I) in the system that occurs during wet weather. In order to minimize the need for costly expansions to the City's Water Pollution Control (WPC) facility, as well as to convey flows from new development as the City grows, the City must work to reduce the overall I/I in the system.

In 2012 the City began a Sanitary Sewer System Evaluation that included a comprehensive and systematic evaluation for identifying the defects that could contribute I/I across the entire, City-wide sanitary sewer system. This evaluation data collection is complete and it is evident that there are over \$25 million worth of immediate structural improvements needed in the sanitary sewer system.

Current and future CIP projects for the sanitary sewer system are based on the results of this evaluation. Work includes rehabilitation such as the lining of existing mains or spray lining of existing structures, as well as complete removal and replacement of structures and sanitary sewer mains. These projects were shown in the CIP beginning in 2014/15. Funding comes from the State Revolving Fund (SRF) in the amount of \$3,470,000 for each year with an annual increase of 5% for inflation. Repayment of the SRF loans will be from revenues generated in the Sanitary Sewer Fund.

On September 13, 2016 meeting, City Council approved the engineering services agreement with WHKS & Company of Mason City, Iowa to complete sanitary sewer rehabilitation design with funding from a SRF Planning and Design Loan for \$350,000 approved by City Council in August 2016.

This is the third rehabilitation project and was selected to have an immediate impact by removing Inflow & Infiltration (I&I) in sewer mains that are older and installed with non-sealed joints, the industry standard at the time. By eliminating I&I in these mains, the sanitary sewer system will regain some capacity. Items of work in the contract include point repairs, cured-in-place lining of the existing mains. These rehabilitation methods minimize the impact to residents and will reduce the amount of clean water that enters the system, thus reducing the amount of water needing treatment at the plant.

Revenue and expenses associated with this program are estimated as follows:

	Available Revenue	Estimated Expenses
State Revolving Funds	\$ 3,270,000	
2015/16 Sanitary Sewer Rehab (Sanitary Sewer Lining)		\$2,519,000
Engineering/Administration		\$500,000
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	\$ 3,270,000	\$3,019,000

ALTERNATIVES:

1. Approve the 2015/16 Sanitary Sewer Rehabilitation (Sanitary Sewer Lining) by establishing March 22, 2017, as the date of letting and March 28, 2017, as the date for report of bids.
2. Direct staff to revise the project.

MANAGER'S RECOMMENDED ACTION:

This project represents City Council's commitment to improve the sanitary sewer system. This is the third of several large projects that will have an immediate impact by removing Inflow & Infiltration to regain valuable capacity in the City's existing sanitary sewer mains.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as noted above.