



Rochelle Municipal Utilities
Water/Water Reclamation
Interoffice Memorandum

To: David Plyman

From: Adam Lanning

Date: April 13, 2015

Re: Council Approval for Engineering Agreement

Upon the request of RMU staff Willett, Hofmann & Associates, Inc. of Dixon, Illinois has submitted an engineering proposal. The scope of our request was for both design and construction observation of a sewer main replacement project referred to as sanitary sewer system 1. The System 1 sanitary sewer is a 24" diameter sanitary sewer that begins at the System 1 lift station located at the south end of the Water Reclamation Plant and runs along Veteran's Parkway and eventually Steam Plant Road. The sanitary sewer line is over 55 years old and we need to replace approximately 3,200 feet along Veteran's Parkway from highway 251 to south main. It primarily serves Hormel Foods so their waste can be pretreated in the anaerobic lagoon at the Water Reclamation Plant but it also receives flow from the Cleveland lift station on Gary Street and Caron Road lift station which services the industrial area along Steward Road. The sanitary sewer handles an average daily flow of 825,000 gallons per day.

The sanitary sewer is a concrete line that is in deteriorating condition due to the hydrogen sulfide gas from the industrial strength waste reacting with the cement in the concrete. In 2006, RMU rehabilitated a section of the 24" diameter sanitary sewer from the System 1 lift station to a sanitary manhole on Veteran's Parkway just east of IL Route 251 by lining the sewer. No other work had been done to this sewer line since then. RMU has also discontinued any jetting and cleaning maintenance of the System 1 sewer line because the pressure of the jetter chips away at the surface of the concrete pipe which has been softened by the hydrogen sulfide gas. In addition to the structural concerns with the System 1 sewer line, we see a significant increase in flow during rain events which can cause hydraulic problems in the sewer line, lift station and the anaerobic lagoon. We have seen daily peak flow increase to 1,300,000 gallons per day during rain events.

This project has been budgeted for fiscal year 2015/16 at a total cost of \$585,000 which includes design cost as follows:

Design	\$76,000
Easements (if necessary)	\$3,000
Construction Observation	\$59,500
Bidding and Award	\$1,500
Soil Borings	\$10,000
Total	\$150,000

Based on the current circumstances, I recommend that the City accept the proposed engineering agreement for \$150,000 so work can begin on this project.

Cc: Adam Lanning, Water/Water Reclamation