



Legislation Details (With Text)

File #:	2019-0348	Version:	0	Name:	Emergency 151st Street Sanitary Sewer Lining - Payment
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File created:	5/10/2019	In control:		In control:	Board of Trustees
On agenda:	5/20/2019	Final action:		Final action:	5/20/2019
Title:	Emergency 151st Street Sanitary Sewer Lining - Payment				
Code sections:					
Attachments:	1. 151st Street Sanitary Repair Map, 2. Airy's Invoice				

Date	Ver.	Action By	Action	Result
5/20/2019	0	Board of Trustees		
5/10/2019	0	Public Works Department	INTRODUCED TO BOARD	

Title/Name/Summary
Emergency 151st Street Sanitary Sewer Lining - Payment

History

On Wednesday, April 10th, the Utility Division Vactor truck was sent out to try and retrieve a jet head that was stuck in a 10-inch sanitary sewer main located on 151st Street west of Wolf Road (Exhibit attached). The main was installed in 1989 and is more than 30 feet deep. The jet head was used to break-up a blockage, but had to be cut off due to it becoming lodged in the main. Staff was successful in breaking the blockage but was unable to retrieve the jet head. The Utility Division attempted to televise the main to locate the jet head. The camera could only be inserted a few feet due to severe tuberculation and the high risk of it becoming lodged. Several attempts were made to clean the main and retrieve the jet head using the equipment on hand. Standard Equipment, the supplier of the Vactor, was contacted for a solution. Standard Equipment loaned a demo head for our use and it got stuck about 15 feet from the eastern manhole.

To prevent further issues, staff contacted Airy's, Inc. of Tinley Park, Illinois to assist with the removal of the lodged jet head. Airy's has helped with similar situations in the past. They suggested televising from the eastern manhole to get a better understanding of the complication. About 15 feet west of the manhole, 3/4" stone was found surrounding the jet head preventing it from moving. Airy's set up their Vactor and suction hose to try and remove the stone around the jet head while staff pulled back with the village's Vactor. After several hours of vacuuming, the jet head was able to be removed. Airy's continued to vacuum stone for five (5) more days to facilitate televising the main to determine the condition of the pipe. Upon completion of the cleaning, several pipe failures were found. The source of the stone was determined to be the backfill from around the pipe, entering through the holes and missing sections. Immediate action was required to prevent a catastrophic collapse and complete blockage of the sanitary main. After considering alternatives and due to the mains condition and depth, lining was determined to be the most viable option. The most significant failures were located near the eastern manhole (V-95); however the pipe condition prevented lining. In order to line the pipe, 8 inch stainless steel pipe was pushed into the 10 inch main for the first 15 feet, starting at the eastern manhole. To facilitate the lining, Airy's contacted four (4) lining companies for proposals, Insituform Technologies - \$25,155.00, Michels Pipe Corp. - \$42,000.00 and Hoerr Construction -

\$22,715.00. Airy's also contacted National Power Rodding, which declined to bid due to scheduling conflicts.

The village has contracted Hoerr Construction through Airy's, Inc for sanitary sewer lining projects in the past. Hoerr Construction ordered the liner and lined the entire length of the main on Wednesday, May 1st. The cost of this emergency repair includes removal of the jet head, cleaning and televising, installing 15 feet of 8 inch stainless steel pipe, and lining the entire 390 feet of 10 inch sanitary main. As a follow-up to this incident staff will be investigating the condition of the other sanitary sewer main in the area installed at the same time.

The village has a contract with Airy's, Inc. to perform this type of emergency repair work. The total cost of the repair completed by Airy's for the Emergency 151st Street Sanitary Sewer Lining is \$69,661.59. Due to the cost of the work, funding is requested from the Water Contingency Fund.

This agenda item is being considered by the Village Board of Trustees due to the rescheduling of the Public Works Committee.

Financial Impact

Sufficient funds are available in the utilities budget contingency account 031-6001-484950 to cover the cost for this emergency repair.

Recommended Action/Motion

I move to approve the use of Water Fund Contingency Funds;

And

Approve waiving the bid process;

And

Authorize payment to Airy's, Inc. of Tinley Park, Illinois, for Emergency 151st Street Sanitary Sewer Lining in the amount of \$69,661.59.