

AGENDA REPORT

TO: Mayor & City Commissioners
FROM: Ken Hibl, City Manager
DATE: May 13, 2016
RE: Approval of Sole Source Vendor – Sanitary Sewer Rehabilitation

For the Agenda of May 16, 2016

Background. We recently asked Coleman DPW to televise our sanitary sewer line that runs from a manhole in the middle of the first block of West Fourth Street (immediately adjacent to the 4th/5th Street alleyway) to a manhole in the first block of East Fourth Street (immediately adjacent to the former alleyway behind Clare Hardware). The televised results verify that the sewer line is cracked, fragmented, and near collapse. A conventional (saw-cutting and removing asphalt, excavating and replacing the existing line) repair/replacement of the collapsing sanitary line is manpower intensive, expensive (approx. \$300K), and inconvenient (street closures – to include USBR-127). Consequently, our DPW Director, Al Jessup, contacted a vendor (LiquiForce) he met at a trade show that offers the ability to repair failing lines by a process called “Cured in Place Pipe Technology” wherein a polymer liner is inserted in the failing pipe and then allowed to dry and harden, which eliminates the need to replace the failing line or excavate the site to repair the line.

LiquiForce has offered a proposal (*copy att'd*) to apply this process on our failing sanitary line. Al has confirmed reliability and integrity of the company and the process and has determined that they are the only company in our region that presently offers this service.

Due to the current condition of this sanitary line, we ask the City Commission to grant approval to use this company as a sole source vendor and authorize the expenditure of funds to proceed with the project.

Issues & Questions Specified. Should the City Commission approve the sole source vendor request and authorize the expenditure of funds to allow the project to proceed.

Alternatives.

1. Approve the use of LiquiForce as a sole source vendor and authorize the expenditure to rehabilitate the failing sanitary sewer pipe.
2. Do not approve the use of LiquiForce as a sole vendor and direct the solicitation of bids for the sanitary sewer rehabilitation.
3. Set aside decision regarding this matter to a later date.

Financial Impact. The estimated cost to complete a conventional repair/replacement of this pipe is \$300K. The cost to use the services of this vendor to rehabilitate the failing section of sanitary sewer is \$27,000. A budget amendment will be required for this expenditure. The City’s Sewer Fund has the monies available to defray the costs of the needed work.

Recommendation. I recommend that the City Commission approve the use of LiquiForce as a sole source vendor and authorize the expenditure of funds to complete the sewer rehabilitation by adoption of Resolution 2016-051(*copy att'd*).

Attachments.

1. Proposal.
2. Resolution 2016-051.

May 5, 2016

City of Clare
202 W. Fifth St.
Clare MI 48617

Attn: Mr. Alan Jessup
Re: Sanitary Sewer Rehabilitation

As requested, we submit the following proposal to complete the rehabilitation of the 10" diameter sanitary sewer located under Fourth St and passing under McEwan (US 27). We propose to utilize Cured in Place Pipe technology to accomplish the rejuvenation of the existing sewer thus eliminating the need for open trench excavation. The materials proposed to be utilized will be designed for fully deteriorated pipe conditions and a minimum of a 50 year design life per the standards and guidelines of ASTM F1216.

Our proposal involves a two phased process. The initial pipe preparation phase included the removal of all loose materials and obstructions, inspection with CCTV equipment designed specifically for pipelines and measurement (diameter, length, location of existing service lateral connections, etc.). Upon completion of this phase, the information gathered will be used to design and manufacture materials to meet the specific needs of this sewer section. We anticipate phase one to require one day to complete.

Phase two will commence upon receiving the customized materials (typically 3 weeks after pipe preparation phase). The installation phase will involve the establishment of flow control measures so as to permit all existing sewer connections upstream of the project area to continue to operate without interruption. The liner will be inverted from the upstream manhole located on the west side of McEwan extending to the next manhole downstream on the east side of McEwan. Once fully inverted the liner will be cured to create the polymer pipe designed to provide the structural properties required to withstand all loading being placed on the pipeline.

After completing the curing cycle the ends of the liner will be removed completing the process of rejuvenating the mainline pipe between the existing manholes. Immediately following the removal of the liner end materials, a robotic cutting and CCTV unit will be inserted into the pipeline to reinstate the previously documented service lateral connections. We anticipate phase two to require one day to complete.

Our intended methods of accomplishing the flow control without impeding traffic on McEwan include the insertion of a temporary inflatable sewer plug to block flows and the use of a suction vehicle to transport the sewage from the west side to a downstream manhole on the east side of McEwan.

We propose to perform the work associated with the liner installation phase in evening / night time hours in an effort to reduce the potential inconvenience to businesses directly connected

and adjacent to the project area. The vehicles and equipment needed to complete the liner installation are large and may restrict traffic flow in this area therefore our plan to complete the work between 7:00pm and 7:00am is to reduce this impact.

Our price to complete the work as described above is \$27,000.00. Our price includes all labor, materials and equipment necessary to complete the work. We have not made allowances for fees associated with the use of a hydrant on site and/or any excavations due to collapsed pipe conditions (although not anticipated to be necessary at this time).

If you have any questions or wish to proceed please feel free to contact me directly. We look forward to working with you on this project in the near future.

Sincerely,

John Thompson

Technical Representative

RESOLUTION 2016-051

A RESOLUTION OF THE CLARE CITY COMMISSION APPROVING THE USE OF A SOLE SOURCE VENDOR AND AUTHORIZING THE EXPENDITURE OF FUNDS TO USE THIS VENDOR.

WHEREAS, the City's sanitary sewer line on Fourth Street between the two manholes in closest proximity to McEwan Street is failing as verified by televising said line; and

WHEREAS, the conventional method (excavation and pipe replacement) to replace said sewer line is estimated to cost \$300,000, causes motorist inconvenience; and is time and resource burdensome; and

WHEREAS, LiquiForce, a regional vendor, has offered a cost-effective alternative proposal to repair said failing sewer line using Cured in Place Pipe Technology that has a 50-year useful life cycle guarantee and eliminates all of the negative elements of the conventional method of pipe replacement; and

WHEREAS, the City Staff has completed its due diligence and determined that said vendor is the only one that offers said alternative in the local region; and that the success rate for municipalities that have used/use this system is excellent;

WHEREAS, the City Staff recommends the use of LiquiForce as a sole source vendor for said alternative proposal and further recommends that the Commission authorize the expenditure of funds to use the proffered services of LiquiForce to repair the Fourth Street sanitary sewer line; and

WHEREAS, the City Commission has reviewed, discussed, and considered said recommendations and has determined them to be reasonable, sound, and prudent.

NOW THEREFORE BE IT RESOLVED THAT the Mayor and City Commission of the City of Clare, hereby approves the use of LiquiForce as a sole source vendor to repair the failing sanitary sewer line on Fourth Street in the City of Clare and authorizes the expenditure of \$27,000 to proceed with repairs to said sewer line using the alternative method of repair proffered by LiquiForce.

ALL RESOLUTIONS AND PARTS OF RESOLUTIONS INsofar AS THEY CONFLICT WITH THE PROVISIONS OF THIS RESOLUTION BE AND THE SAME ARE HEREBY RESCINDED.

The Resolution was introduced by Commissioner _____ and supported by Commissioner _____. The Resolution declared adopted by the following roll call vote:

YEAS:

NAYS:

ABSENT:

Resolution approved for adoption on this 16th day of May 2016.

Diane Lyon, City Clerk