

REQUEST FOR PURCHASE IN EXCESS OF \$20,000/CHANGE ORDER



To: MAYOR AND CITY COUNCIL

Agenda Item #: IV. E.

From: Chad A. Millner, PE, Director of Engineering

The Recommended Bid is

Within Budget

Not Within Budget

Date: May 19, 2015

Subject: Authorize Watermain Cleaning Services for the Morningside Neighborhood

Date Bid Opened or Quote Received:

April 14, 2015

Bid or Expiration Date:

June 14, 2015

Company:

Exotec Canada, Inc.

Northwest Asphalt, Inc.

Northdale Construction Company, Inc.

Amount of Quote or Bid:

\$98,950.00

NA

NA

Recommended Quote or Bid:

Exotec Canada, Inc.

\$98,950.00

General Information:

The Morningside area of Edina is one of the older neighborhoods in Edina dating back to the 1930's. The water system within Morningside is constructed mainly of unlined cast iron pipes. These unlined pipes allow iron to oxidize from the pipe wall. The iron material is the source of red-water complaints but also the iron combines with water to form ferric hydroxide. The ferric hydroxide is quite voluminous and forms deposits in the water main. These deposits greatly inhibit the ability of the watermains to pass high volume flows as required for firefighting efforts. The loss of flow capacity is a public safety issue.

Several options exist for the rehabilitation of unlined cast iron watermains. These includes: 1) complete replacement using open cut techniques, 2) replacement using pipe bursting methods, 3) pipe lining using cast in place pipe; 4) relining with cement mortar materials. Recently, we have been introduced to a trenchless cleaning method that is able to remove the watermain deposits and coat the interior of the pipelines to slow the release of iron from the pipe wall. This effort will improve the conveyance capacity of the mains and reduce red-water complaints until the project area reaches its anticipated year of reconstruction. Based on current analysis of citywide pavement condition and utility considerations, the Morningside D neighborhood, within which the water mains of concern are located, is planned for reconstruction in 2019. At that time, the main will be rehabilitated either through a cement lining process or bursting the existing mains with high-density polyethylene pipe.

This work requires the removal of the internal parts of the fire hydrants. Public Works is performing fire hydrant maintenance this year. This project creates an opportunity for them to review the internal parts and it affords the City an opportunity to create efficiencies between projects.

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This project, utilizing a different rehabilitation method, is listed in the CIP as Project No. 15-161 in the amounts of \$450,000 and \$275,000 for years 2015 and 2016, respectively. Based on those budget numbers, this project will save the City approximately \$600,000 for those budget years. This project will be funded from the water utility fund. Staff recommends awarding the Morningside Watermain Cleaning to Exotec Canada, Inc.

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