

TO: Thomas Frutchey, City Manager
Dick McKinley, Public Works Director

FROM: Ditas Esperanza, Capital Projects Engineer

SUBJECT: Award Contract to Prepare Bid Documents to Upgrade Water Mains along Spring Street, from 24th to 36th

DATE: September 20, 2016

Needs: For the City Council to award the contract for the upgrading of the water mains along Spring Street from 24th to 36th.

- Facts:
1. The City's 2014 Water Master Plan has identified the need to upgrade its distribution mains, in order to meet fire flow deficiency in the system.
 2. One of the areas that needs to be upgraded is the existing water mains along Spring Street, from 24th to 36th. Currently, the existing main is a 6-inch diameter pipeline. In order to meet the fire flow demand for the west side of the City, the water main needs to be upgraded to a 12-inch diameter pipeline. Further, the Water Master Plan states that this pipeline upgrade should occur within 6 years from 2014, or by the year 2020.
 3. Surface repairs along Spring Street from 24th to 36th is on the adopted list of streets to be completed using Supplemental Sales Tax.
 4. It is recommended that the water main upgrades be included as part of the road resurfacing for Spring Street from 24th to 36th.
 5. When the list of streets to be repaired was adopted by the City Council, staff was directed to expedite preparation of bid documents for the road repairs. To that end, staff requested Statements of Qualification (SOQ), from consultants who were interested in providing design services for the City.
 6. Staff evaluated all the SOQs received, and assigned a consultant to each road segment on the Street Repair List.
 7. Stantec was assigned for that portion of Spring Street, from 24th to 36th. Although they have been working on the project, the water main upgrades were not part of their original work, because the need to expand the mains had not been demonstrated. With the recent completion of the Water Master Plan, that analysis has now been completed. To that end, the City received a scope of work and fee proposal to prepare bid documents to upgrade the water mains, in the amount of \$43,250.

Analysis &
Conclusion:

It is most cost effective to replace/upgrade underground utilities while doing street rehabilitation projects. Water mains in Spring Street between 24th and 36th need to be upgraded. The water main work can be designed to fit in with the street project using the same design engineering firm at a reduced cost because that firm already has all of the survey data and street layouts in their system. The water main work should be designed now so that it can be included in the street project when it is constructed.

Policy

Reference: Water Master Plan; Supplemental Sales Tax Project List

Fiscal

Impact: The City Council adopted the Capital Improvement Project Budget №. 6009101-54520-C0005 (Annual Water Pipeline Replacement; see page 112 of Adopted Budget), with an amount of \$309,000, which is adequate to fund the design phase without requiring the delay of any other planned effort.

It is estimated that the cost of construction will be \$1.5 million. Staff will need to request appropriation of construction funds once the project is ready. All design and construction costs will be borne by the Water Fund.

Options:

- A. Authorize the City Manager to enter into a Consultant Agreement with Stantec, in the amount of \$47,575 (\$43,250 + 10% contingency), to upgrade the existing water mains along Spring Street, from 24th to 36th as recommended by the 2014 Water Master Plan, and authorize the City Manager to make minor changes in the agreement, if necessary, to best meet City needs; or
- B. Amend, modify, or reject the above option.