

COUNCIL ACTION FORM

SUBJECT: 2017/18 WATER SYSTEM IMPROVEMENTS – PROGRAM 1- WATER SERVICE TRANSFER (10TH STREET and 12TH STREET) – CHANGE ORDER No.4

BACKGROUND:

The Water System Improvements program provides for replacing water mains in areas that are experiencing rusty water problems. It also provides for installing larger distribution mains in areas that have a high concentration of 4" supply lines, transferring water services from 4" water mains in streets where larger water mains exist, and abandoning 4" water mains. Eliminating duplicate water mains, where possible, improves water flow and helps reduce rusty water. Installing larger distribution lines in areas that have a high concentration of 4" supply lines and less than desirable fire-fighting capacity (predominantly in the older areas of the community) provides larger supply quantities in relation to the current and proposed land uses, in accordance with the Land Use Policy Plan.

On August 13, 2019, City Council awarded the contract to Ames Trenching & Excavating, of Ames, Iowa, in the amount of \$320,456. This project includes abandoning the existing 4" water main and transferring everyone to the 8" water main. Change Orders No. 1, 2, and 3 have been administratively approved in accordance with Purchasing Policies and Procedures. These included reducing quantities of fittings (tees), adding tapping valve, modifying the completion date (no cost change), and costs for additional complex internal plumbing encountered. These change orders increased the contract amount by \$12,073.67.

During the design phase, staff used City plumbing service cards to determine which services needed to be transferred, as has been standard practice for many years. These service cards were found to not be completely accurate and missing significant information.

During construction, the contractor discovered that there were 14 water services that were connected to the existing 4" water main and these services, because of incomplete service card information, were not shown on the plans. All these services must be transferred to the 8" water main. Change Order No. 4 (this action) is to allow the contractor to transfer the 14 water services from the 4" water main to 8" water main in the amount not to exceed \$119,950. It should be noted that this total change order cost is in keeping with the approved contract prescribes the cost for each type of water transfer.

During design phase for any future water main project, staff will conduct field verification by shutting off water mains to check who is impacted by the shut off, thereby having more accurate information to incorporate into the bid documents.

Revenue and expenses associated with this program are estimated as follows:

	Available Revenue	Estimated Expenses
Water Utility Fund	\$1,300,000.00	
2017/18 Water System Improvements Program # 2 (previous project)		\$ 544,978.01
Construction (this project)		\$ 320,456.00
Change Orders No. 1-4 (including this C.O.)		\$ 132,023.67
Engineering/Administration (overall total)		\$ 200,000.00
	\$ 1,300,000.00	\$1,197,457.68

ALTERNATIVES:

1. Approve Change Order No. 4 in the amount not to exceed \$ 119,950.
2. Direct staff to pursue changes to the project.

MANAGER’S RECOMMENDED ACTION:

The services that were missed in the plumbing inspection service cards must be transferred to the new water main. By improving the water systems in these local neighborhoods, residents will see improved water quality and firefighting capacity. **Even with the addition of this change order, the program expenses still are estimated to be below the Capital Improvement Plan funding amount.**

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as describe above.