



Memorandum

To: Honorable Mayor and Members of the City Council
Administration and Public Works Committee

From: David Stoneback, Public Works Agency Director
Lara Biggs, P.E., Bureau Chief – Capital Planning / City Engineer
Paul Moyano, P.E., PMP, Senior Project Manager

Subject: Water Treatment Plant Reliability Improvements
Construction (RFP 16-17)
Change Order No. 2 – Ladder Rungs

Date: September 11, 2017

Recommended Action:

Staff recommends that City Council authorize the City Manager to execute Change Order No. 2 for the Water Treatment Plant Reliability Improvements Project with Thieneman Construction, Inc. (TCI) (17219 Foundation Parkway, Westfield, IN 46074) in the amount of \$7,110.00 for safety modification to shorewell ladders. This will increase the total contract amount from the current contract price of \$1,282,611.00 to \$1,289,721.00, and extend the date of final completion from October 29, 2017 to November 17, 2017.

Funding Source:

The Illinois Environment Protection Agency (IEPA) has agreed to provide a loan from the State Revolving Fund in an amount up to \$1,634,816.00 for engineering and construction of this project. This amount includes a contingency of 3% (\$37,410.00) of the bid price of the project. With this funding, all eligible engineering and construction costs will be funded by a loan repaid over 20 years at 1.64% interest.

IEPA loan funding for this work is being routed through the Water Fund, Capital Improvement (Account 513.71.7330.65515 – 733094). This project has an overall project allocation of \$2,500,000 funded in both 2016 and 2017.

Livability Benefits:

Built Environment: Manage Water Resources Responsibly.

Reduce Environmental Impact: Improve energy and water efficiency.

Health and Safety: Enhance resiliency to natural and human hazards.

Background:

The Water Treatment Plant Reliability Improvement Project is improving critical components of the plant, including the shore wells, chemical feed system, large diameter valves, conveyance ducts, site piping, electrical systems and instrumentation, resulting in a more dependable water supply for all Evanston Water Plant customers

The City Council authorized the City Manager to execute the agreement for Construction of the project to Thieneman Construction Inc. (TCI) for \$1,247,000 on July 11, 2016. Notice to Proceed was issued on February 1, 2017 after the Loan was formally awarded by the IEPA. Change Order 1 was authorized on July 24, 2017 for additional shorewell repairs.

Construction is currently 85% complete, with significant milestones successfully achieved including the installation of new filter valves, by-pass conduits, and a major valve vault. Remaining items include installation of a control valve and the startup of the new phosphate feed system. TCI is satisfactorily performing work.

Analysis:

Access to the City's 50-foot deep raw water shorewells is periodically required for inspection and maintenance. This proposed change order provides for texturized ladder rungs necessary for safe access because of the wet environment.

This modification to the rungs has caused a delay in the fabrication of the ladders, requiring an 18-day extension of the contract time.

Funding for this Change Order will be from the Water Fund, Account 513.71.7330.65515 – 733094. A summary of the funding for this overall project is shown on the table below.

Item	Account Summary 513.71.7330.62140-733094
Budgeted Amount	\$2,500,000 (Multi-Year Budget)
Engineering Agreement	\$445,434
Construction Agreement Original amount	\$1,247,000
Construction Change Order No. 1 Shorewell Improvements	\$35,611
Construction Change Order No. 2 Shorewell Improvements (Under Consideration)	\$7,110
Account Balance	\$734,898

Legislative History:

The City Council approved contract award for Engineering Services to CDM Smith on June 22, 2015.

The Acting City Manager approved Engineering Change Order No. 1 with CDM Smith on July 22, 2015.

The City Council approved Engineering Change Order No. 2 with CDM Smith on May 9, 2016.

The City Council approved Engineering Amendment 1 with CDM Smith on May 9, 2016.

The City Council approved Engineering Change Order No. 3 with CDM Smith on June 26, 2017.

The City Council approved contract award for construction to TCI on July 11, 2016.

The City Council approved Construction Change Order No. 1 with TCI on July 24, 2017.

Attachments:

Construction Change Order No. 2

Includes Proposed Change Order 6 from TCI