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Commissioners
Dan Decker Michael Sutherland

TO: The Honorable Mayor and the City Council
THRU: Michael Sutherland, Commissioner of Public Property
FROM: Cord Crisler, Water and Wastewater Superintendent
DATE: March 26, 2020
SUBJECT: Waste Water Treatment Plant Upgrade Change Order #3

DISCUSSION:

This change order #3 involves changes to 5 items from the original project parameters. These items are itemized and explained in detail in the supporting documents.

These changes have been reviewed and approved by Farnsworth, Inc. and Brad Bolton Consulting.

RECOMMENDATION:

Approve change order #3 as described herein and attached in connection with the Wastewater Treatment Improvements Phase A, B, and C in the amount of \$63,035.14

RESOLUTION NO. 1920-129

East Peoria, Illinois

_____ , 2020

RESOLUTION BY COMMISSIONER _____

**RESOLUTION ACCEPTING THIRD CHANGE ORDER
FOR CITY'S SANITARY SEWER SYSTEM UPGRADE PROJECT
(PHASE A – C CONSTRUCTION PROJECT)**

WHEREAS, the City of East Peoria currently operates a combined waterworks and sewerage system, which includes a sanitary sewer system, in accordance with the provisions of Division 139 of Article 11 of the Illinois Municipal Code (65 ILCS 5/11-139-1 *et seq.*); and

WHEREAS, the City has previously awarded a contract to Williams Brothers Construction Inc. (the "Contractor") for the construction of Phases A – C of the Sanitary Sewer System Upgrade Project; and

WHEREAS, a third change order has been requested for the Project regarding numerous revisions to and for the Project (the "Change Order") in the amount of \$63,035.14, as described in "Exhibit A", attached hereto and incorporated herein by reference; and

WHEREAS, the Change Order has been reviewed and approved by the City's Project Engineer (Farnsworth), the City's Project consultant, and City Officials as being necessary improvements for the Project; and

WHEREAS, it is in the City's best interests to approve the Change Order for the betterment of the Sanitary Sewer System Upgrade Project;

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF EAST PEORIA, TAZEWELL COUNTY, ILLINOIS, THAT:

Section 1. The above recitations are found to be true and correct and are incorporated herein.

Section 2. The Change Order for the Sanitary Sewer System Upgrade Project as set forth in Exhibit A in the amount of \$63,035.14 is hereby approved.

Section 3. The Mayor, or his designee, is hereby authorized to submit the proposed Change Order to the IEPA for approval and to execute any documentation necessary for the IEPA submission and review process.

Section 4. After receiving IEPA approval for the Change Order, the Mayor or his designee is authorized to execute any additional documentation required for effectuating the Change Order; provided, however, that the City shall have no obligation to the Contractor under this Resolution until such time as an executed Change Order has been delivered to the Contractor and IEPA approval has been obtained.

APPROVED:

Mayor

ATTEST:

City Clerk

ATTACHMENT #1

Change Order Items and Justification

RFP #006R3

1. Shop drawing reviews evidenced supply of several Magnetic flow meters and a submersible level transducer assembly intended for the Phase D contract scope. These should be removed from the current contract to maintain correct performance and warranty obligations complete in the Phase D pending contract.
2. The service tap and hydrant cross several existing and planned utilities making installation difficult. Additional hydrants are available east and west of the location. The intended service hydrant can be removed from the project scope.
3. The effluent pumps are in the phase D contract scope. The Control Scada Panels and MCC electrical gear that will accommodate the pumps are in the current contract. The relays needed are typically supplied with the pump. To ensure a complete and ready MCC and to avoid work in the MCC by a different Phase D vendor or contractor, the relays are best procured and installed now for a complete MCC. Reduces risk for the City.
4. The plug valve is for connection to a future Plant #3 expansion. Since that possible expansion is many years in the future, it was determined to delete the valve from the current project.
5. Negotiations were conducted over a 7 month period with the Electric Utility Power provider Ameren. The existing overhead utility electric power lines are located directly adjoining the WWTP North fence line on CAT owned property parallel to Cass St. The powerlines are in conflict with adjoining construction and OSHA safety guideline for construction.
 - a. Possible power line relocation options were explored with the Utility and CAT. Of those it was determined the best option would be directional drill the utility lines in the same alignment below grade. The cost proposed by Ameren was to be in the range of \$90K. The concern was the City would bear the cost burden of the utility relocate for constructability w/o contribution by the utility owner, CAT or others serviced by the utility line.
 - b. An optional approach was utilized by first relocating affected new structures further from the north fence line as possible outside of the safety envelope as determined and defined by the utility, Ameren. No cost was incurred in this effort.

Second a series of temporary, cyclic power line interruption was negotiated by which the utility lines would be de-activated for an agreed to period for several select construction operations periods and construction work crossings under, crossing or proximate to the adjoining overhead line utility line. In order to shut down the active lines in the area of construction Ameren will install a 3 Phase switch.

This RFP item is for the cost of installing that utility switch for the site constructability needs and OSHA requirements.

RFP #007R1

1. A new 120V Electric Hoist is specified to replace the existing 480V unit. The electric power service circuit must be revised for 120V service from spare circuits at the new electrical panel

2. Electrical Equipment and Panels on the basis of the Electrical equipment shop drawings require additional use of the interior room space blocking the existing window. The intended window and frame is deleted and the opening infilled with interior block and exterior brick.

RFP #008R2

1. Temporary utility re-route of existing 8 in. SA and existing (1) 4 in., (2) 1 in., and (1) 3/4 in. Electrical service conduits and wires at the Plant 1 Influent PS construction. The buried existing pipe and electrical conduit are in direct conflict with the construction and are scheduled for future deactivation. They must however remain in service during construction of the New Pump station and Headworks improvements and in advance of the Phase D construction Site Electrical improvements yet to be bid in 2020 pending agency (IEPA) permit approval and funding.

RFP #009R1

1. The existing Fondulac Interceptor was field televised for location of an existing tee connection for the existing 18 in. sanitary service N to the RTE 8 pump station. It was determined the tee is oriented south with piping then dropping and routing North underneath the Fondulac interceptor via a previously existing buried manhole discovered in field excavation for the improper tee connection. This existing condition is unacceptable by and conventional design standard or code for Sanitary sewerage service. To supplement Change Order 2 RFP 003R3 Item 4, a new connection between the discovered existing buried manhole and the originally constructed existing 18 in. SA South properly transfers required flows to the New Manhole RT8C is required to correct the existing condition for proper connection, service transfer to the upgraded Rte. 8 pump station for proper operation and load shift transfer to Plant #3. The discovered buried manhole requires some old service pipe hole plugging, patch repairs, extension to surface grade and a new cover/lid for re-use.

RFP #010

1. The existing manhole at the final connection (discharge) of the Rte. 8 pump station Sta 110+96 was discovered to be severely degraded due to hydrogen sulfide release corrosion. Repair or replacement of the existing damaged manhole is required for proper function of the rte. 8 forcemain and pump station and before structural failure of the existing manhole.
2. Unknown utility conflicts were discovered during prosecution of the work associated with a private utility water service system for a subdivision involving multiple trunk services that had to be field hand located, and supported to remain active and worked under and around to accomplish the force main installation through the conflict zone.

RFP #011

1. The Station is designed with an exterior buried 24 in. inlet plug valve for isolation due to anticipated space constraints in the existing station dry pit room. Based on the selected pump equipment shop drawings and field measurements, the pump suction intakes within the dry pit can be fitted with plug valves and the piping routed through the new structural beam assembly above. The single 24 in. valve will be deleted and the 3-14 in. interior plug valves added. This is operationally advantageous as the entire pump station need not be off line when servicing one or more pumps and consistent flow to Plant #3 can be maintained during pump maintenance.

Other:

1. Voluntary Contractor deduct for an Alternate membrane roofing system at the Rte 8 CSO Storage Basin. The full coverage membrane system meets Owner requirements to extent the operating service life of the existing basin precast element concrete cover with a project cost reduction.
2. Division B Unit price contract balancing for actual installed field quantities against the bid unit price quantities. This balancing change order item will allow closure of the unit price portion of the contract.