



City of Kansas City, Missouri

Docket Memo

Ordinance/Resolution #: 240312

Submitted Department/Preparer: Water

Revised 11/01/23

Docket memos are required on all ordinances initiated by a Department Director. More information can be found in [Administrative Regulation \(AR\) 4-1](#).

Executive Summary

Authorizing a \$10,270,001.72 construction contract with Mark One Electric Company, Inc., for the Wastewater SCADA System Improvements Phase 2 project; authorizing a maximum expenditure of \$11,300,000.00; authorizing a \$2,043,121.00 design professional services Amendment No. 3 to Contract No. 1443, for the Wastewater SCADA project with Black & Veatch Corporation, for a total contract amount of \$6,731,108.00; and recognizing this ordinance as having an accelerated effective date.

Discussion

Project Justification

The original design professional services project determined an approach for implementation of a new and separate Wastewater SCADA system. The ideas were developed into construction design documents. Construction phase engineering and resident phase services will be provided through a third amendment to the original design contract.

This project is being done to develop a stand-alone wastewater Supervisory Control and Data Acquisition (SCADA) system including connections and monitoring of various wastewater treatment plants and pump stations. Communications between the sites will be either fiber optic lines or a new 220 MHz wastewater dedicated radio system. This is Phase 2 of this project.

Construction Project Description

This project involves the installation of new equipment and software to establish a City-wide Wastewater SCADA System. Phase 1 of this project established the communications backbone for the wastewater SCADA network and connected the first 10 facilities. This Phase 2 will connect the remaining wastewater facilities to the SCADA network and upgrade hardware/software as needed to run on the new platform (PlantPAX).

The scope of work for the construction project includes construction of data communications fiber and radio links, adaptation of existing site PLC's and servers to Rockwell PlantPAX technology, and integration of data into the control system including control screen graphics, history, and reporting tools.

Work will be performed at the following WSD facilities:

- Southwest Boulevard Sanitary & Flood Station;
- 25th Street Flood Station;
- Broadway Flood Station;
- North Airport Flood Station;
- Gillis Flood Station;
- Lydia Flood Station;
- Prospect Flood Station;
- Milwaukee Flood Station;
- Truman Flood Station;
- Hawthorne Flood Station;
- Blue Bank Flood Station;
- South Airport Flood Station;
- North Church Estates Sanitary Station;
- Pied Creek Sanitary Station;
- First Creek Sanitary Station;
- Second Creek Sanitary Station;
- South Airport Relief Flood Station;
- Wildwood West Sanitary Station;
- KCI Industrial Sanitary Station;
- Briarcliff West Sanitary Station;
- Northland Mobile Sanitary Station;
- Chouteau Sanitary Station;
- Riverside Horizons Sanitary Station;
- Birchwood Sanitary Station;
- Gregory Ridge Sanitary Station;
- 12th Street Sanitary Station;
- South Air Pumping Sanitary Station;
- 118th and Lawndale Sanitary Station;
- Lake Waukomis Sanitary Station;
- White Aloe Sanitary Station;
- Brush Creek Sanitary Station;
- Upper Rush Sanitary Station;
- Harlem Sanitary Station;
- 83rd Street Sanitary Station;
- Birmingham Sanitary Station;
- Mace Road Sanitary Station;
- Weatherby Lake Sanitary Station;
- Platte Woods Sanitary Station;

- Kemper Flood Station;
- Birmingham Wastewater Treatment Plant;
- Birmingham Wastewater Treatment Plant Control Room;
- Westside Wastewater Treatment Plant Control Room;
- Todd Creek Wastewater Treatment Plant;
- Rocky Branch Wastewater Treatment Plant Control Room;
- Fishing River Wastewater Treatment Plant Control Room;
- KCI De-Icing Flood Station; and
- East Tank Tower.

The amount of this construction contract is \$10,270,001.72, which includes an alternate for PLC/OIT upgrade to PlantPAX 5.x, and 2 allowances for unforeseen conditions and a pre-negotiated software purchase.

Term

The term will be for 820 calendar days.

Solicitation

This project was advertised in accordance with the City’s requirements on December 29, 2023, and bids were opened on February 13, 2024, with one (1) bidder responding.

Awardee/Subcontracting Participation

Mark One Electric Company, Inc. was the sole bidder on this project and were deemed the lowest, responsible, and responsive bid of \$10,270,001.72, with subcontracting participation of 15% MBE and 14% WBE.

Other Bidders/Subcontracting Participation

No other bids were received on this project.

Estimated Opinion of Probable Construction Costs

The Engineer’s Opinion of Probable Construction Cost was \$9,897,683.00.

Design Professional Services Project Description/Executed Contract + Amendment Summary

City Council approved Ordinance No. 180416 on June 7, 2018 authorizing a \$1,370,672.00 design professional services contract with Black & Veatch Corporation for the Wastewater SCADA project.

City Council approved Ordinance No. 200622 on August 27, 2020 authorizing a \$999,189.00 Amendment No. 1 to the design professional services Contract No. 1443 with Black & Veatch Corporation for the Wastewater SCADA project for engineering office and field representative construction phase services plus added 8 years to the contract's term.

City Council approved Ordinance No. 211107 on January 16, 2022 authorizing a \$2,318,126.00 Amendment No. 2 to the design professional services Contract No. 1443 with Black & Veatch Corporation for the expansion of the Phase 1 construction phase services and for the addition of Phase 2 design services of Wastewater SCADA implementation of remaining sites and further development of standards documents.

This proposed ordinance is for authorization of a construction project for the Wastewater SCADA System Improvements Phase 2 and design professional services construction phase services Amendment No. 3 for the Wastewater SCADA project.

Term

The original contract's term was for 790 days. Amendment No. 1 added 8 years to the contract's term. This proposed Amendment No. 3 will add an additional 365 days to the contract's term for a total of 3,823 days (approximately 10.47 years).

Design Professional Services Contract Cost Summary

| | |
|----------------------------------|-----------------------|
| Original Contract: | \$1,370,672.00 |
| Amendment No. 1: | \$999,189.00 |
| Amendment No. 2: | \$2,318,126.00 |
| <u>Proposed Amendment No. 3:</u> | <u>\$2,043,121.00</u> |
| Total: | \$6,731,108.00 |

MBE/WBE Goals

CREO KC established goals of 15% MBE and 14% WBE on this construction project on December 13, 2023 as part of the Annual Goal Program.

The Human Relations Department (now known as CREO KC) established goals of 14% MBE and 8% WBE on this design professional services project on December 15, 2017, which pre-dated the Annual Goal Program.

Fiscal Impact

1. Is this legislation included in the adopted budget? Yes No

2. What is the funding source?

AL-8194-807778-611060-81000819 = \$9,300,000.00 / Sewer Treatment Facilities ;
Sewer Revenue Bond Series A 2024 Fund

24-8110-807778-611060-81000819 = \$2,000,000.00 / Sewer Treatment Facilities;
Sewer Fund

AL-8188-807778-611040-81000819 = \$864,000.00 / Sewer Treatment Facilities;
Revenue Bond Series A 2018 Fund

24-8110-807778-611040-81000819 = \$1,179,121.00 / Sewer Treatment Facilities

3. How does the legislation affect the current fiscal year?

This project was included in the 2024 CIP.

4. Does the legislation have a fiscal impact in future fiscal years? Please notate the difference between one-time and recurring costs.

No.

5. Does the legislation generate revenue, leverage outside funding, or deliver a return on investment?

No.

Office of Management and Budget Review

(OMB Staff will complete this section.)

1. This legislation is supported by the general fund. Yes No

2. This fund has a structural imbalance. Yes No

3. Account string has been verified/confirmed. Yes No

Additional Discussion (if needed)

Click or tap here to enter text.

Citywide Business Plan (CWBP) Impact

1. View the [FY23 Citywide Business Plan](#)

2. Which CWBP goal is most impacted by this legislation?
Infrastructure and Accessibility (Press tab after selecting.)

3. Which objectives are impacted by this legislation (select all that apply):

- Engage in thoughtful planning and redesign of existing road networks to ensure safety, access, and mobility of users of all ages and abilities.
- Enhance the City's connectivity, resiliency, and equity through a better-connected multi-modal transportation system for all users.
- Build on existing strengths while developing a comprehensive transportation plan for the future.
- Develop environmentally sustainable infrastructure strategies that improve quality of life and foster economic growth.
- Ensure adequate resources are provided for continued maintenance of existing infrastructure.
- Focus on delivery of safe connections to schools.

Prior Legislation

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Service Level Impacts

This project will help to meet the service level commitments of the wastewater utility by allowing for improved operational efficiency and data collection particularly during rain storms.

Other Impacts

1. What will be the potential health impacts to any affected groups?

No health impacts are expected with this project. This work takes place on City property or is fiber work being directionally drilled.

2. How have those groups been engaged and involved in the development of this ordinance?

N/A

3. How does this legislation contribute to a sustainable Kansas City?
This project will improve monitoring and automation of wastewater systems to optimize the use of resources.

4. Does this legislation create or preserve new housing units?
No (Press tab after selecting)

N/A

Click or tap here to enter text.

5. Department staff certifies the submission of any application Affirmative Action Plans or Certificates of Compliance, Contractor Utilization Plans (CUPs), and Letters of Intent to Subcontract (LOIs) to CREO prior to, or simultaneously with, the legislation entry request in Legistar.

Yes - I have submitted documents for CREO Review (Press tab after selecting)
Please attach or copy and paste CREO's review.

The Contractor Utilization Plan for the construction project was submitted to CREO KC for review on February 26, 2024, and was approved February 27, 2024 with 10% MBE and 10% WBE participation.

Subcontracting goals on the design professional services project will remain unchanged at 14% MBE and 8% WBE with this amendment.

There are Affirmative Action Program requirements on this contract.

6. Does this legislation seek to approve a contract resulting from an Invitation for Bid?

Yes (Press tab after selecting)

List the three (3) lowest bidders in addition to the selected bidder.

Mark One Electric Company, Inc. = \$10,270,001.72

7. Does this legislation seek to approve a contract resulting from a Request for Proposal/Qualification (RFP/Q)?
No(Press tab after selecting)