



City of Kansas City, Missouri

Docket Memo

Ordinance/Resolution #

Submitted Department/Preparer: Water Services

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 \$5,267,529.00 design professional services contract with Burns & McDonnell Engineering Company, Inc., for the Water Master Plan and Risk Based Asset Management Plan Update project.

Discussion

Project Justification

The City completed a comprehensive Water Master Plan in 2014. While several of the improvements identified in the master plan have been implemented, several have been delayed because demands have not matched the projections developed in the master plan.

Like many utilities nationwide, KC Water has seen reduced customer demands over the past 10 years. As such, a detailed review of demand usage and projections is necessary to help identify timing for capital improvements and the identification of additional improvements.

Additionally, the City has developed a Digital Twin hydraulic model. As part of this master plan update, the Digital Twin and master planning hydraulic models will be updated and used to develop operational scenarios to be used by the City for future evaluations on the system.

For this project, the design professional shall review risk criteria developed for the Water Main Replacement program and evaluate potential software products to use for the program. Currently the City uses Info Asset Planner. The City also requires condition assessment on the pump stations throughout the distribution system.

Project Description

Services provided under this contract will include a review of the previous master plan, a comprehensive update to the master plan, update to the distribution system hydraulic model, review and recommendations for an improved risk assessment of the Water Main Replacement Program, valve criticality assessment, condition assessment of water treatment and pumping facilities, and an updated Capital Improvement Plan.

The term of this project will be 730 calendar days.



City of Kansas City, Missouri

Docket Memo

Solicitation

This Project was advertised in accordance with the City's requirements. Proposals were received on November 17, 2022 with two consultants responding.

Awardee/Subcontracting Participation

Burns & McDonnell Engineering Company, Inc. was selected for this project with a contract amount of \$5,267,529.00, with subcontracting participation of 14% MBE and 14% WBE.

Other Proposals Received

Other proposals were received by the following consulting firms:

- Carollo Engineers, Inc.
- Crawford, Murphy & Tilly, Inc.
- HDR Engineering, Inc.
- HNTB Corporation

Estimated Project Cost

The City's estimated cost for this project is \$6,000,000.00.

Fiscal Impact

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

2. What is the funding source?

24-8010-807773-611040-80002372 = \$5,267,529.00 / Water Treatment Facilities

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

This ordinance is revenue supported and will not have a net impact on the current fiscal year.

4. Does the legislation have 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.



City of Kansas City, Missouri

Docket Memo

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

Additional Discussion (if needed)

Click or tap here to enter text.

Citywide Business Plan (CWBP) Impact

View the [FY23 Citywide Business Plan](#)

Which CWBP goal is most impacted by this legislation?

Infrastructure and Accessibility (Press tab after selecting.)

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

- Enhance the City's connectivity, resiliency, and equity through a safe, efficient, convenient, inclusive, accessible, sustainable and better connected multi-modal transportation system
- Develop environmentally sound and sustainable infrastructure strategies that improve quality of life and foster economic growth
- Increase and support local workforce development and minority, women, and locally-owned businesses
- Engage in efforts to strategically invest in the City's infrastructure and explore emerging technologies
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Prior Legislation

N/A.



City of Kansas City, Missouri

Docket Memo

Service Level Impacts

This project will help to facilitate the City meeting its current level of service commitments for the water utility.

Other Impacts

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

N/A

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

Appropriate groups have been engaged in the development of this ordinance

3. How does this legislation contribute to a sustainable Kansas City?

The master plan will evaluate improvements within the water distribution system to support growth within the City. These improvements will ensure sustainability within the water distribution system.

4. Does the ordinance/resolution include Civil Rights antidiscrimination requirements in compliance with the Code of Ordinances (Chapter 38, titled "Civil Rights")?

Yes. CREO KC established 14% MBE and 14% WBE goals on this project on August 2, 2022 using the Annual Goal Manual, which is for a period of June 2022 through June 2023.

There are also Affirmative Action Program requirements in this contract.

5. Has the ordinance/resolution been submitted for review of economic equity & inclusion requirements in compliance with the Code of Ordinances (Chapter 3, titled "Contracts and Leases")?

Yes. The Contractor Utilization Plan was submitted to CREO KC for review on August 4, 2023, and is pending approval.