



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: July 1, 2019

Re: Authorizing an agreement for professional engineering services with Black & Veatch Corporation for construction phase and resident project representative services for the Wastewater Treatment Plant Phase 2 Improvements – Digester Complex; and, appropriating funds for construction.

Executive Summary

Staff has prepared for Council consideration an ordinance authorizing the City Manager to execute an agreement with Black & Veatch Corporation in the amount of \$627,830 to provide professional engineering services for construction of Wastewater Treatment Plant Phase 2 Improvements – Digester Complex; Construction Phase Services and Resident Project Representative Services. This ordinance includes an appropriation for \$706,516 to cover the total construction and engineering costs and building permit fee.

Discussion

In 2018, the City retained Black & Veatch to provide the engineering design services for the Columbia Regional Wastewater Treatment Plant (CRWWTP) Phase 2 Improvements – Digester Complex. Black & Veatch performed a detailed assessment of the existing digester facilities that are in need of rehabilitation and upgrades. Black & Veatch provided preliminary and final designs and construction plans for improvements to the digester complex and provided bidding services.

Construction is ready to proceed. It is necessary to execute an engineering services agreement to include Construction Phase engineering services and resident project representative services. It was necessary to finalize plans and the construction schedule in order to prepare this agreement in the amount of \$670,092.

At the public hearing for this project the project cost was estimated at \$7,000,000. The Construction Manager at risk, in coordination with staff and Black and Veatch, has prepared an acceptable Guaranteed Maximum Price for construction at \$5,761,084, including a 3.5% contingency. The approved design engineering contract was \$752,839 and this construction engineering services contract is \$627,830 for total engineering services of \$1,380,669. The building permit fee is \$14,688, and there was a \$75 publication charge. This results in a total project cost of \$7,156,516, which is 2.2% more than the original anticipated project estimate. To date, \$6,450,000 has been appropriated from 2013 bond funds and enterprise revenue. An appropriation of \$706,516 is necessary from retained earnings to cover the cost for this project.

Fiscal Impact



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Short-Term Impact: \$670,092 additional engineering costs

Long-Term Impact: The construction and engineering and miscellaneous costs for this project are \$7,156,516.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Operational Excellence, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Environmental Management, Tertiary Impact: Tertiary

Legislative History

Date	Action
11/05/2018	(Ord23699) Authorizing construction of Phase 2 improvements to the digester complex at the Columbia Regional Wastewater Treatment Plant; authorizing the Purchasing Agent to request qualification for a construction manager-at-risk for the improvement project.
11/05/2018	(PH41-18) Public Hearing
10/01/2018	(R151-18) Setting a public hearing: proposed construction of Phase 2 improvements to the digester complex at the Columbia Regional Wastewater Treatment Plant.
09/27/2018	Interested Parties (IP) meeting
06/04/2018	(Ord23559) Authorizing the City Manager to execute an agreement with Black & Veatch Corporation to provide professional engineering services for WWTP Phase 2 Improvements – Digester Complex.
04/03/2017	(Ord23139) Authorizing the issuance of Sewerage System Revenue Bonds, Series 2017 in an amount on not to exceed \$16,405.00.
03/20/2017	(R37-17) Authorizing the public sale of Sewerage System Revenue Bonds, Series 2017 in an amount on not to exceed \$16,405.00.
04/16/2015	(Ord22383) Authorizing the issuance of Sewerage System Revenue Bonds, Series 2015, in the aggregate principal amount on not to exceed \$20,500.00
03/03/2015	(R11-15A) Authorizing the offering for sale of not to exceed \$20,500.00 principal amount of Sewerage System Revenue Bonds, Series 2015, of the City of Columbia, Missouri.
07/22/2014	(R125-14) Transferring funds to offset expenditures relating to the November 2013 Special Bond Election for sanitary sewer improvements.



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01/02/2014	(Ord21742) Declaring the results of the Special Election held in the City of Columbia, Missouri on November 5, 2013.
08/05/2013	(Ord 21760) Calling a special election on whether to issue the Sewer System Revenue Bonds in the amount of \$32,340,000 for constructing, improving, repairing, rehabilitating, replacing, equipping, expanding, and extending the city-owned sewerage system.
07/01/2013	Pre-Council Meeting – General Obligation Bond Projects – Infrastructure Ballot Presentation
05/20/2013	Pre-Council Meeting – November Storm Water / Sewer Ballot Issue – Sewer Utility Presentation – Storm Sales Tax Presentation

Suggested Council Action

Authorize the City Manager to execute an engineering services contract with Black & Veatch Corporation to provide professional engineering services for WWTP Phase 2 Improvements – Digester Complex; Construction Phase Services and Resident Project Representative Services; and, appropriate funds to construct the project.