

CITY OF JOPLIN COUNCIL AGENDA ITEM

ITEM

Council Bill 2020-133 Work Authorization for Professional Engineering Consulting services associated with the Turkey Creek Wastewater Treatment Facility Activated Sludge Facilities 2020.

MEETING DATE

May 18, 2020

ORIGINATING DEPT

Public Works/ Operations

ATTACHMENTS

Photo; CB 2020-133 Ordinance; Work Authorization AMA-0C20-011

REVIEWED BY

Director of Public Works – David Hertzberg, Director of Finance – Leslie Haase, City Attorney – Peter C. Edwards, City Manager – Nicholas Edwards

SUMMARY

This Council Bill approves a work authorization with Allgeier, Martin and Associates, Inc. (AMA), for the Professional Engineering Consulting Services associated with the Turkey Creek Wastewater Treatment Facility Activated Sludge Facilities 2020 in the not to exceed amount of Four Hundred Eighty Thousand and 00/100 Dollars (\$480,000.00)

BACKGROUND

The Turkey Creek Wastewater Treatment Facility was originally built in 1985 and has undergone major improvements over the years. The facility utilizes trickling filter towers and an activated sludge process to provide biological treatment of the wastewater. The facility has a design treatment capacity of 24 million gallons a day (MGD) through the plant, and additional untreated flow can be pumped to the flow equalization basin. The plant routinely faces bypassing and sanitary sewer overflow issues during wet weather periods as a result of its limited hydraulic capacity. The plant's ability to treat organic and solids loads (biochemical oxygen demand and suspended solids) is also expected to reach its design limits within the next ten years. The recently completed Wastewater Facility Plan discusses the planned improvements to the plant that will increase the hydraulic and organic treatment capacity of the plant. The added facilities include additional screening equipment, pumps, activated sludge basins and aeration equipment, and a new final clarifier. All existing equipment will be retained. The design will increase the plant's hydraulic capacity by nearly fifty percent, to 35 MGD, and will provide the anticipated organic and solids capacity through the year 2040. The new activated sludge facilities will be operated in a manner similar to the existing facilities and will receive tertiary filtration and disinfection prior to discharge to Turkey Creek. AMA was selected as the most qualified on-call consultant because of their involvement with the Shoal Creek Plant Expansion and the Wastewater Facilities Plan.

FUNDING SOURCE

These payments are included in the FY 2019-20 budget of the Sanitary Sewer fund.

RECOMMENDATION

Staff recommends adoption of this Council Bill, approving a work authorization on an Emergency basis due to public health concerns associated with sanitary sewer overflows, and so that this project can be “shovel ready” if federal stimulus funds become available; furthermore, being an ordinance relating to a public improvement, it is an emergency within the meaning of Section 2.12(6) of the HOME RULE CHARTER of the City of Joplin, Missouri and the Council hereby declares that this ordinance shall be in full force and effect from and after its passage.