CITY OF JOPLIN
COUNCIL AGENDA ITEM

ITEM
Council Bill 2020-108
Work Authorization for the Crane Road/Arbor Hills Area Lift Station Elimination Project

MEETING DATE
February 18, 2020

ORIGINATING DEPT
Public Works

REVIEWED BY
Director of Public Works – David Hertzberg, Director of Finance – Leslie Haase, City Attorney – Peter C. Edwards, Interim City Manager – Dan Pekarek

SUMMARY
This Council Bill approves a work authorization with Allgeier, Martin and Associates, Inc. (AMA), for the Crane Road/Arbor Hills Area Lift Station Elimination Project in the not to exceed amount of Two Hundred Twelve Thousand Eight Hundred and No/100 Dollars ($212,800.00)

BACKGROUND
The Crane Road lift station was built twenty years ago as part of the 5th phase of the expansion of the Arbor Hills subdivision near W. 32nd Street & S. Shifferdecker Ave. Twelve years ago, a public interceptor line was installed along Crane Road northward to W. 26th Street. The lift station continues to pump wastewater flows through 3400 LF of pressure pipe into a gravity system located within Arbor Hills. Fifteen years ago, another lift station was built as part of the 9th phase of the Arbor Hills subdivision. This smaller lift station continues to pump wastewater flows through 2000 LF of pressure pipe into a gravity system located within Arbor Hills

The recently completed 2019 Wastewater Facilities Plan, done by AMA, indicates that the Crane Road lift station is due for upgrades. Because it now serves the wastewater needs within a basin that extends northward up to the Twin Hills Country Club, the lift station is no longer capable of handling the increased flows from development uphill from it. Furthermore, the Wastewater Facilities Plan outlines an approach for eliminating the Crane Rd. and the referenced Arbor Hills lift stations, along with an additional one much higher within the same drainage basin. By extending gravity sewers downhill to Shoal Creek, which lies almost 4,000 feet to the south, these lift stations can be eliminated. The cost of upgrading each of the 3 lift stations in this basin would cost $680,000 more in construction costs than the cost to eliminate them. An additional benefit to the City would be the reduction of operations and maintenance costs associated with each lift station. The City's wastewater maintenance staff currently maintain 27 lift stations around town; it is in the City's best interest to reduce the burden of lift station maintenance whenever possible.

City staff envision that these new gravity sewers will tie into a future gravity line under Shoal Creek, anticipated as part of the Tin Cup Parallel Force Main project. See the attached Exhibit Map for reference. AMA was selected as the most qualified on-call consultant because of their involvement with the Tin Cup Parallel Force Main project and the Wastewater Facilities Plan. The consultant's fees are within industry standards for design and bidding. Public Works intends

to provide construction inspection and administration. Due to the connectivity between this project and the Tin Cup Parallel Force Main project, it is important to begin the design soon. Furthermore, because the optimum time for performing topographic surveys is prior to the end of winter, it is imperative that this project be approved by Council as quickly as possible.

FUNDING SOURCE

These payments are included in the FY 2019-2020 budget of the Wastewater fund.

RECOMMENDATION

Staff recommends adoption of this Council Bill, approving a work authorization, on an Emergency basis; 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.

ATTACHMENTS

Exhibit Map; CB 2020-108 Ordinance; Work Authorization AMA-OC20-003