

## **CITY OF JOPLIN COUNCIL AGENDA ITEM**

### **ITEM**

Council Bill 2022-123 – approving a construction agreement with Joplin Industrial Electric Inc. for construction of the Murphy Boulevard High Water Automated Gates System (TS0804).

### **MEETING DATE**

June 6, 2022

### **ORIGINATING DEPARTMENT**

Public Works - Engineering

### **ATTACHMENTS**

Location Map, Bid Summary; Agreement, CB2022-123

### **REVIEWED BY**

Interim Director of Public Works: Daniel Johnson; Director of Finance: Leslie Haase; City Attorney: Peter Edwards; City Manager: Nicholas Edwards.

### **SUMMARY**

This Council Bill authorizes the City Manager or his designee to enter into an agreement with Joplin Industrial Electric Inc., in the amount of One Hundred Eighty-Six Thousand Four Hundred Ninety-Six and 00/100 Dollars (\$186,496.00) for construction of the Murphy Boulevard High Water Automated Gates System project (TS0804).

### **BACKGROUND**

The Parks and Storm Water Sales Tax was renewed by voters in August 2021. A capital improvement project recommendation list was developed for the utilization of the 2022-2032 Parks and Storm Water Sales Tax funds which was approved by voters. Included in the list of approved projects was a project for the replacement of the current high water gate system implemented on Murphy Boulevard west of Main Street. The current system consists of a float level sensor that rises and falls depending on the elevation of Joplin creek. Once triggered, a signal is sent activating the warning blinker lights to alert motorists. During high water rain events, the Joplin police department or public works personnel must arrive at the scene to manually close the gates and restrict access. Because of the unreliability of the existing float level sensor (which would trigger at an undesirable frequency accidentally due to false readings mainly attributed to blockages) and in order to increase reliability and response time to actual high-water events, staff proposed to replace the existing system with a radar based automated gate system. The proposed new system has a radar sensor to increase reliability in the detection of actual high-water events. Furthermore, the system has the capability of automatically sending text and email notifications to select relevant personnel (such as the police department or public works staff) which allows for instant notification of a high-water event. The system also allows for real-time observation of existing conditions via a mounted camera with night vision capability. Lastly, when the sensor detects a high-water event, the system is capable of automatically engaging the gate arms to restrict access, thereby increasing event response time and reducing strain on police officer resources who would normally be summoned from their patrol duties to manually engage the gate on site.

In accordance with the City of Joplin's procurement policies, a request for proposals for construction of the Murphy Boulevard High Water Automated Gates System project was

advertised. One proposal was received, and bids were opened on May 5, 2022, with Joplin Industrial Electric Inc. the lone bidder. The bid was below the Engineer's estimate. Construction inspection services are intended to be performed in-house by the Public Works department with installation oversight services provided by the system vendor TAPCO.

**FUNDING SOURCE**

Parks and Storm Water Sales Tax fund.

**RECOMMENDATION**

Staff recommends approval of this Council Bill No. 2022-123.