



Legislation Text

File #: 23-0153, Version: 1

CITY COUNCIL AGENDA ITEM

ACTION REQUESTED:

Approve the award of Option Year One for Bid 22-016, Lift Station Force Main Inspection, to RJN Group, Inc. for an amount not to exceed \$184,500

DEPARTMENT: Water Utilities

SUBMITTED BY: Darrell Blenniss, Director

BOARD/COMMISSION REVIEW:

N/A

BACKGROUND:

The Water Utilities operates and maintains 23 wastewater lift stations in the sanitary collection system. Part of the system includes a pressurized sewer pipe, called a force main, that conveys wastewater under pressure from a lift station(s) to a discharge manhole in the collection system.

Force main condition assessment is complicated because they typically are not part of redundant systems and cannot be easily taken out of service for a detailed inspection. Visual inspection of sewer force mains is difficult because of the nature of effluent, which often makes them opaque to a CCTV camera inspection.

In January 2022, the Water Utilities issued Bid 22-016, Lift Station Force Main Inspection. The work included reviews of all available data and records for the listed lift stations and force mains, a field reconnaissance visit to observe the lift stations and force mains in operation, and an internal inspection of the force mains using the PICA Piper inline screening technology. The PICA Piper is set to monitor these defects:

1. Detect leaks
2. Spot air pockets with potential H₂S damage in wastewater lines
3. Confirm min/max pipeline elevation locations
4. Find major deposits and debris that increase hydraulic losses
5. Measure pressure differentials indicative of bore restrictions
6. Detect gross changes in metallic pipe thickness

The inspection results will be reviewed, and recommendations made for further studies, inspections, cleaning, repairs, or rehabilitation to the force mains

DISCUSSION:

In March 2022, the Council approved Bid 22-016 to RJN group to perform internal pipe condition

assessment of four sanitary lift station force mains for a one-year term with four option years.

During the original contract terms (2022), RJN Group performed at a satisfactory level and delivered outstanding inspection results. In 2023, RJN again will be inspecting four lift station force mains

Due to the extremely long lengths and larger sizes of the force mains being inspected in 2023 compared to 2022 and the rising cost of labor, the cost for 2023 inspections is 9.4% higher than the inspections done in 2022.

The term of the first option year is October 16, 2022 to October 15, 2023, with three, one-year options remaining on the agreement.

FISCAL IMPACT:

CIP: N/A

Lift station force main inspections are expensed to the Operational Services account listed below. A total of \$912,000 is budgeted for various televising and inspection services in 2023. The requested award is within budget.

Account Number	Fund Description	Total Budget Amount
41251520-531308	Water Utilities Fund	\$912,000