



Legislation Text

File #: 24-0125, Version: 1

CITY COUNCIL AGENDA ITEM

ACTION REQUESTED:

Approve the award of Sole Source Procurement 24-079, Water Meter Replacement, Pressure Monitoring and Leak Detection, to Core & Main, LP for an amount not to exceed \$3,517,041 plus a 3% contingency and for a 22-month term

DEPARTMENT: Water Utilities

SUBMITTED BY: Darrell Blenniss, Director

BOARD/COMMISSION REVIEW:

N/A

BACKGROUND:

Naperville currently has approximately 10,000 small-diameter water meters (1" and smaller) and approximately 140 large-diameter water meters (1-1/2" and larger) that are more than 16 years old. Staff plans to replace these meters and to continue replacements on a rolling basis as meters age. As such, the department maintains a stock inventory of meters for new construction installations and replacement programs.

Water meter technology has improved vastly in recent years and now allows for remote reading and system leak detection capabilities. In 2020, the City Council awarded Contract 19-214 to Core & Main, LP to install Advanced Metering Infrastructure (AMI) hardware and integrate the City's meter data management system (MDMS) and associated software for a complete system. The licensed AMI software responsible for collecting water read information is currently installed on-premises on servers maintained by Electric Utility staff.

In 2023, 114 distribution leaks were reported with an estimated loss of 804,362 gallons of water and a total of \$4,166,597. Since then, the system was upgraded to the Sensus SaaS (software as a system) Analytics software to accommodate the pressure monitoring and leak detection programs the Water Utilities plans to implement to reduce non-revenue water loss.

The SaaS model includes constant system monitoring by Sensus professionals to ensure 99.99% availability and reliability, will provide the Water Utilities with advanced real-time system analytics, as well as integrate with other Sensus software applications that monitor the distribution system pressure and detect system leaks. The Sensus Analytics Software is used for utility billing and maintenance of the water meter system and by the summer of 2024, the AMI software will be migrated from a licensed environment to a cloud-based environment.

DISCUSSION:

In 2024, the Water Utilities will continue its annual water meter replacement program and begin piloting a program to conduct leak detection and pressure monitoring throughout the system using Sensus Ally water meters and Permalog acoustic-sounding devices in strategic locations.

Water Utilities has identified this purchase as a Sole Source because Core & Main is the sole source vendor for the Sensus/Xylem products. Sensus Ally water meters and Permalog acoustic-sounding devices will only work on the Sensus Analytics software installed with the AMI system. The Water Utilities has issued several bids for the purchase of water meters since 2016, and Core & Main LP has always been the low bidder. Core & Main LP provides for the integration of Sensus software with the City's various IT systems and the purchase of equipment and infrastructure that allows for the wireless transmission of water reads.

This Sole Source is requested for a 22-month term from the time of award until December 31, 2025, for the purchase of water meters, pressure monitoring and leak detection equipment.

FISCAL IMPACT:

CIP#: WU020, WU047

The requested award for the Water Meter Replacement and Water Pressure Monitoring and Leak Detection programs are budgeted as part of the Capital Improvement Program (CIP) for a combined budget of \$1.95 million in 2024. Future costs will be adjusted accordingly during the upcoming budget cycle.

The five-year CIP includes an estimated funding of \$4.35 million for WU020 and \$4.44 million for WU047. Therefore, it is anticipated that the full award can be accommodated within the budget.

Account Number	Fund Description	Total Budget Amount
41252000-551502	Water Capital Fund	\$40,264,902