



AGENDA MEMORANDUM

Action Item for the City Council Meeting May 21, 2024

DATE: May 14, 2024
TO: Peter Zanoni, City Manager
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Purchase of Traffic Signal Control Cabinets for Public Works

CAPTION:

Motion authorizing execution of a three-year supply agreement with Mobotrex, Inc., of Davenport, Iowa, for \$506,250.00, through the BuyBoard Cooperative, for the purchase of 45 replacement traffic signal control cabinets to be used by the Public Works Department, with FY24 funding of \$84,375.00 from the Streets Fund.

SUMMARY:

Motion authorizing a supply agreement with Mobotrex, Inc., of Davenport, Iowa, to replace 45 traffic control signal cabinets due to age or damage City-wide.

BACKGROUND AND FINDINGS:

The Traffic Signals Division, under the Public Works Department, is responsible for maintaining and operating the City's 255 traffic and pedestrian signals. Adjacent to every signal is a traffic signal control cabinet. These cabinets are vital to the operation of traffic and pedestrian signals. They house all the electrical hardware that is for the operation and control of traffic movements, coordination of signal timing, traffic detection, and reducing failure in the event of power loss.

The new cabinets will serve as an upgrade to obsolete cabinets that do not adhere to the National Electrical Manufacturers Association (NEMA) TS2 standard which sets minimum requirements to ensure high network reliability in Intelligent Transportation Systems (ITS). These new cabinets will improve traffic management operations between traffic signals and the City's Traffic Management Center (TMC), be equipped with Malfunction Management Units (MMU-2) which automatically notify the TMC of signal malfunctions and includes the equipment to allow upgrades to "Flashing Yellow Arrow" signals. In addition to upgrading obsolete cabinets, the purchase will

provide for emergency replacement at locations where the cabinet was damaged due to a vehicular accident or natural event (e.g. lighting strike, hurricane). Over the last 3 years, the Department has replaced at least 13 cabinets as a result of emergency events.

PROCUREMENT DETAIL:

This procurement is through the BuyBoard Cooperative. Contracts awarded through the BuyBoard Cooperative have been competitively procured in compliance with Texas, local and state requirements. Procurement staff found Mobotrex to have the greatest discount pricing compared to other suppliers offering the same or equivalent products and services.

In 2022, the City purchased a collective total of 60 traffic cabinets from Mobotrex at a price per cabinet of \$9,680.00. However, the price per traffic cabinet has inflated to \$11,250.00 in 2024. This current bid amounts to a sixteen (16%) increase from the bid obtained from Mobotrex in 2022.

ALTERNATIVES:

An alternative to accepting the lowest, responsive, responsible bidder, Mobotrex, Traffic would be forced to reject all bids. The inability to replace obsolete and damaged cabinets will result in limited or complete loss of operations for a traffic and pedestrian signal.

FISCAL IMPACT:

The fiscal impact for FY 24 will be \$84,375 with funding available in the Street Fund.

FUNDING DETAIL:

Fund:	1041 Streets
Organization/Activity:	12310 Traffic Signals
Department:	33 Streets
Project # (CIP Only):	N/A
Account:	520130 Maintenance and Repairs

RECOMMENDATION:

Staff recommends approval of the motion authorizing this supply agreement with Mobotrex for the purchase of 45 replacement traffic control signal cabinets as presented.

LIST OF SUPPORTING DOCUMENTS:

Supply Agreement
Price Sheet
Presentation