



Text File

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Title

Consider and take action on a resolution authorizing an agreement with Paradigm Traffic Systems, Inc. through BuyBoard (Contract #603-20) for the purchase of Centrac's Advanced Transportation Management System (ATMS) Adaptive Software Expansion Module and associated hardware for 20 signalized intersections in an amount not to exceed \$512,195 (Director of Public Works)

..Background:

Approval of this agreement will authorize the City to enter into an agreement with Paradigm Traffic Systems, Inc. through BuyBoard (Contract #603-20) for the purchase of Centrac's Advanced Transportation Management System (ATMS) Adaptive Software Expansion Module and associated hardware for 20 signalized intersections in an amount not to exceed \$512,195.

Phase 1 and 2 of the ATMS was approved for purchase on April 14, 2020, and May 25, 2021, respectively (details attached). The proposed purchase implements Phase 3 of the adaptive software expansion module and associated intersection hardware, representing the 3rd of 5 phases of expansion over the next two fiscal years. This five-year plan is identified in the City's current Capital Improvement Plan (CIP). Phase 3 addresses corridor 2 and encompasses 20 signalized intersections (Five Corners) along FM518, from Texas Ave. to Lawrence Rd. and FM 2094, from Stadium Dr. to Lawrence Rd. Additional program details are available in Attachment 5. Currently, Phase 2 (Corridor 1 - FM 518, Maple Leaf to Park Ave.) is scheduled for Beta testing in January or February 2022.

The addition of this software module and associated hardware allows for automated real-time adaptive signal control and cycle optimization of traffic signals which will adjust signal timings in response to real-time events. This increases roadway traffic efficiencies and reduces commuter delays. Further system details are available in Attachment 6.

Paradigm Traffic Systems, Inc. is the sole provider for Econolite Products, Inc. in the State of Texas. The Centrac's ATMS and the proposed intersection hardware are an integrated system manufactured by Econolite. All proposed hardware has proprietary features that ensure full functionality of the Centrac's ATMS.

Staff is requesting Council's consideration to approve the proposed purchase of the Centrac's ATMS and associated hardware with Paradigm Traffic Systems, Inc. in an amount not to exceed \$512,195, utilizing the BuyBoard Contract #603-20.

Attachments:

1. Data Sheet
2. Proposed Resolution
3. Exhibit A - Agreement with Paradigm Traffic Systems, Inc.
4. Agenda Item #9B - Approved Data Sheet 5.25.21

5. Agenda Item #9C - Approved Data Sheet 4.14.20
6. Edaptive Software and Hardware Summary
7. Justification Memo - Paradigm Sole Source
8. Sole Source Documentation
9. Map of Corridors
10. Vendor Report Card

FUNDING

{X} Funding in the amount of \$512,195 is available from 2017 CO, fund 5240, with expenses charged to TR1901-CONSTRUCT-CONSTRUCT-2017 CO

STRATEGIC PLANNING

{X} Addresses Strategic Planning Critical Success Factor #1 - Develop and Maintain our Infrastructure

APPROVED

JAN 25 2022

CITY COUNCIL

RESOLUTION NO. 2022-13