



City of League City, TX

300 West Walker
League City TX 77573

Text File

File Number: 23-0231

Agenda Date: 5/23/2023

Version: 1

Status: Draft

In Control: Public Works

File Type: Agenda Item

Title

Consider and take action on a resolution authorizing an agreement with Paradigm Traffic Systems, Inc. through BuyBoard (Contract #695-23) for the purchase of Centrac's Advanced Transportation Management System (ATMS) Edaptive Software Expansion Module and associated hardware for 22 signalized intersections in an amount not to exceed \$634,238 (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 #695-23) for the purchase of Centrac's Advanced Transportation Management System (ATMS) Edaptive Software Expansion Module and associated hardware for 22 signalized intersections in an amount not to exceed \$634,238.

Phase 1, 2, and 3 of the ATMS was approved for purchase on April 14, 2020, May 25, 2021, and January 25, 2022, respectively (details attached). The proposed purchase implements Phase 4 of the edaptive software expansion module and associated intersection hardware, representing the 4th of 5 phases of expansion over the next fiscal year. This five-year plan is identified in the City's current Capital Improvement Plan (CIP). Phase 4 addresses Corridor 3 and encompasses 22 signalized intersections (along League City Pkwy, from Bay Area Blvd. to Isla Vista Dr. and FM 270, from League City Pkwy to Webster St.). Additional program details are available in Attachment 6. Phase 2 (Corridor 1 - FM 518, Maple Leaf to Park Ave.) was completed in April 2023. Currently, Phase 3 (Corridor 2 - FM 518, from Texas Ave. to Lawrence Rd. and FM 2094, from Stadium Dr. to Lawrence Rd.) is scheduled for Beta testing in June 2023.

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 7.

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 \$634,238, utilizing the BuyBoard Contract #695-23.

Attachments:

1. Data Sheet
2. Proposed Resolution

3. Exhibit A - Agreement with Paradigm Traffic Systems, Inc.
4. Agenda Item #9D - Approved Data Sheet 1.25.22
5. Agenda Item #9B - Approved Data Sheet 5.25.21
6. Agenda Item #9C - Approved Data Sheet 4.14.20
7. Edaptive Software and Hardware Summary
8. Sole Source Documentation
9. Map of Corridors
10. Vendor Report Card

CONTRACT ORIGINATION: STAFF

FUNDING

{X} Funding in the amount of \$634,238 is available from Miscellaneous Capital Projects fund, fund 5015, with expenses charged to TR1901-CONSTRUCT-CONSTRUCT-TS CASH.

STRATEGIC PLANNING

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