

Legislation Text

File #: 15-17147, Version: 1

Automated Traffic Signal Performance Measures System

Action:

- A. Approve a contract with Traffop Corp for a term of three years to provide, implement, and maintain an Automated Traffic Signal Performance Measures system,**
- B. Authorize the City Manager to approve price adjustments and to amend the contract consistent with the purpose for which the contract was approved, and**
- C. Authorize the City Manager to purchase such additional software licenses, services, hardware, maintenance, and support as required to maintain the system for as long as the City uses the system.**

Staff Resource(s):

Liz Babson, Transportation
Terry Gortney, Transportation

Explanation

- The Charlotte Department of Transportation (CDOT) maintains over 900 traffic signals and over 275 miles of communication cables that interconnect those signals.
- Deployment of an Automated Traffic Signal Performance Measures (ATSPM) system will build on the City's investments in interconnecting signals and give staff tools to proactively identify areas where signal performance can be improved.
- The ATSPM software continuously monitors and processes traffic data to identify potential operational issues.
- Based on the data collected and analyzed, the system will suggest changes to manage traffic more efficiently.
- CDOT tested this technology through a pilot project that demonstrated the ability to better manage the signal system. During the pilot project, CDOT observed:
 - Quantifiable reductions in vehicle delays inbound and outbound along pilot corridors;
 - An increased percentage of vehicles arriving at the signal during the green interval, which reduces stops and queue lengths, in turn reducing fuel consumption and emissions; and
 - Traffic signal hardware in the process of failing which allowed for the proactive repair of this equipment. By proactively repairing equipment, staff expects fewer complaints about performance issues and can fix pending failures before they occur.
- The travelling public will benefit from the deployment of an ATSPM system through:
 - Improved travel time and reliability;
 - Improved safety for motorists, transit riders, bicyclists, and pedestrians; and
 - Decreased fuel consumption.
- On June 11, 2021, the City issued a Request for Proposals (RFP); two responses were received.
- Traffop Corp best meets the City's needs in terms of qualifications, experience, cost, and responsiveness to RFP requirements.
- Annual expenditures are estimated to be \$300,000.

Charlotte Business INclusion

Per Charlotte Business INclusion Policy: Part C Section 2.1 (a) The City shall not establish Subcontracting

Goals for Contracts where (a) there are no opportunities identified for the Contract; or (b) there are no SBEs, MBEs, or WBEs (as applicable) certified to perform the scope of work that the City regards as realistic opportunities for subcontracting.

This contract meets the provisions of (a) - No subcontracting opportunities.

Fiscal Note

Funding: General Capital Investment Plan