



Design and Construction Services for the Automated Traffic Signal Performance Measures (ATSPM) to Lighthouse Transportation Group, LLC

March 20, 2023

Overview

- City received a grant from CDOT for implementation of an ATSPM for the City's arterial road network,
- Arterial roadways carry the most traffic in the City
- Most delay is experienced at the signalized intersections
- Imperative the signal timing is efficient and optimized to minimize delay for all modes of mobility traveling through intersections
- Performance measures are developed from a software using data collected from the signal controller

Scope of Work

- Replacing controllers at seven intersections
 - E. 56th Ave. and Holly
 - E. 56th Ave. and Monaco
 - Quebec and E. 72nd Ave.
 - E. 104th Ave. and Potomac
 - E. 104th Ave. and King Soopers Drive
 - Tower Road and E. 96th Ave.
- Upgrading detection systems at five intersections
 - Hwy. 2 and E. 72nd Ave.
 - Hwy. 2 and Quebec/Rosemary
 - Hwy. 2 and E. 88th Ave.
 - Hwy. 2 and E. 104th Ave.
- Installing a communication system at three intersections
 - Hwy. 2 and E. 72nd Ave.
 - Hwy. 2 and E. 88th Ave.
 - Hwy. 2 and E. 96th Ave.

Scope of Work

- Acquire cloud based software for developing performance measures
 - Proactive monitoring
 - Detection alerts at odd times of the day
 - Pedestrian alerts at odd times of the day
 - Traffic signal timing optimization
- Five years of software license, tech support, and upgrades

Cost and Schedule

- Lowest responsible bid from Lighthouse Transportation Group, LLC
 - Total Cost \$412,773
 - City Portion is \$223,173
 - CDOT Portion is \$189,600



Next Steps

- Negotiate Final Contract with Lighthouse Transportation Group, LLC
- Notice to Proceed anticipated to be issued April
- Completion in 4th Quarter 2023.



Questions?

