



Date of Memo: April 11, 2023
Current Meeting: April 20, 2023
Board Meeting: April 27, 2023

BOARD MEMORANDUM

TO: Indianapolis Public Transportation Corporation (IPTC) Board of Directors
THROUGH: President/CEO Inez P. Evans
FROM: Project Manager Matt Duffy
SUBJECT: Consideration and approval of RFP 23-01-465 Purple Line transit signal priority system

ACTION ITEM A – 3

RECOMMENDATION:

In a manner consistent with IPTC procurement and contract award standards, it is requested that the Board authorize IPTC’s President/CEO to enter into contract negotiations with Kimley-Horn & Associates to design, configure, deploy, maintain, and track performance of the Purple Line Transit Signal Priority (TSP) system at 25 signalized intersections for an amount not to exceed \$869,500.

BACKGROUND:

The Purple Line TSP System will virtually connect transit vehicles with traffic signals to reduce the amount of time transit vehicles are stopped at signals, improve compliance to route schedules, and increase operating speeds. Since 2020, IPTC staff has been researching national best practices, learning from other cities and transit agencies across the country, and collaborating with the City of Indianapolis Department of Public Works (DPW) to implement a system that is mutually beneficial for IPTC, DPW, and potentially other agencies as well. Additionally, IPTC released a Request for Information (RFI) in 2021 that included a pilot implementation with the goal of gaining understanding of current technology landscape. The results of this RFI informed desired TSP specifications.

This research led to the solicitation of RFP 23-01-465 which released on January 19, 2023. Five submissions were received on March 2, 2023 and reviewed by an evaluation committee that included DPW representation. The proposals were scored based on qualifications and price. It was determined that Kimley-Horn & Associates was the most qualified to complete the work. In the event IPTC cannot come to an agreement with Kimley-Horn & Associates during contract negotiations, it is requested that IPTC engage in contract negotiations with the second-place vendor, Econolite Systems. A separate action item will be brought to the Board if such a decision would increase contract price.

DISCUSSION:

The Purple Line TSP system consists of a hardware-minimal, cloud-based system that ingests readily available transit vehicle location data and virtually places a signal priority request (if needed) to traffic signals along the vehicles’ route. The system uses estimated time of arrival (ETA) to predict transit vehicle arrivals well in advance of the downstream traffic signals.

The scope of this contract includes all services to design, configure, deploy, maintain, and track performance of the system. Some of the features of the system include:

- Transit signal performance metrics to monitor transit performance at each intersection.
- System maintenance and reporting.
- Website to view live operations.

IPTC will work closely and collaboratively with DPW to help ensure a successful deployment in time for the launch of the Purple Line in October 2024.

ALTERNATIVES:

The Board could choose not to authorize the President/CEO to enter into contract negotiations with Kimley-Horn & Associates however, the TSP system cannot be implemented in time for Purple Line start-of-service without selection of a qualified vendor.

FISCAL IMPACT:

This project is budgeted through the Purple Line project with a combination of Federal and local funding.

DBE/XBE DECLARATION:

A DBE goal of 5% was established for this project. Kimley-Horn & Associates has committed to a 6% DBE participation on the project. DBE consultants include the Etica Group, JQOL, and Infrastructure Engineering. Sub-consultant Mindhop is also certified as a DBE, but not yet in Indiana.

STANDING COMMITTEE DISCUSSION/RECOMMENDATION:

This action will be reviewed by the Finance Committee and Service Committee on April 20, 2023.