

## Report to Civic Works Committee

**To:** Chair and Members  
Civic Works Committee

**From:** Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager,  
Environment and Infrastructure

**Subject:** Supply and Delivery of Transit Signal Priority and Emergency  
Vehicle Preemption System

**Date:** December 14, 2021

## Recommendation

That, on the recommendation of the Deputy City Manager, Environmental and Infrastructure, the following actions **BE TAKEN** with respect to the RFP21-08 Transit Signal Priority and Emergency Vehicle Preemption System:

- a) Applied Information Inc. **BE AWARDED** the contract to supply and deliver intersection detection systems in the amount of \$1,791,375.50 (excluding HST) in accordance with Section 12.2 (b) of the Procurement of Goods and Services Policy;
- b) the financing for this project **BE APPROVED** in accordance with the Sources of Financing Report attached hereto as Appendix A;
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the Contractor for the work; and,
- e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

## Analysis

### 1.0 Background Information

The City of London currently uses an optical preemption system for fire vehicles. Optical systems require line of sight to the intersection and do not perform well for transit signal priority. The Traffic Engineering Division is seeking to procure a new Transit Signal Priority and Emergency Vehicle Preemption System as a part of the new Transportation Intelligent Mobility Management System (TIMMS). The system will provide an advanced priority to transit vehicles as part of the Rapid Transit implementation and allow emergency vehicles (fire) to have an option to upgrade from current legacy optical system to a more advanced cell/radio detection system by purchasing an onboard equipment for their fire vehicles.

### 2.0 Discussion

On August 11, 2021, a Request for Proposal was issued to call for proposals for the procurement of Transit Signal Priority and Emergency Vehicle Preemption System. Four proponents submitted proposals for evaluation. These proposals were evaluated by a team from the Traffic Engineering Division with the assistance of the Purchasing and Supply Division, Information Technology Services Division, Fire Department and the London Transit Commission provided their comments to the submitted proposals which were taken in consideration by City staff during evaluation process.

The review and evaluation were scored based on general performance criteria including the company profile, proponent experience, project understanding and approach, interview and product demonstration and the cost proposal.

Based on the evaluation criteria and selection process identified in the Request for Proposals, the evaluation committee unanimously concluded that the proposal from Applied Information Inc., provider of the Glance Transit Signal Priority and Emergency Vehicle Preemption system, provides the best value to the City. Applied Information Inc. is a manufacturer and the supplier of the equipment. The proposed supplier has proven experience in supplying Transit Signal Priority and Emergency Vehicle Preemption systems. The proposal also met the general performance specification which demonstrated their suitability for the undertaking.

The Glance Transit Signal Priority and Emergency Vehicle Preemption system by Applied Information Inc. has been implemented in several other Canadian and USA municipalities including:

- Quebec City (2019);
- The City of Regina (2017);
- The City of Marietta, Georgia, USA (2016); and,
- The City of Sandy Springs, Georgia, USA (2020).

The Glance Transit Signal Priority and Emergency Vehicle Preemption system is proposed as a best value solution for providing transit vehicle priority detection and emergency vehicle preemption. The system uses field monitoring equipment installed in traffic cabinets in the field and on transit/emergency vehicles and communicates with central system via cellular network and 900 MHz radio. All system elements are connected via the Glance System, the cloud-based software system that allows for remote monitoring, data collection and storage, and system configuration capabilities. Transit and Emergency vehicles are provided with green signal phases based on priority request, thereby reducing travel times while simultaneously improving safety. Transit vehicles will benefit from conditional priority, assisting with schedule adherence and improved bus reliability throughout the City of London. The City will continue to operate the legacy optical preemption system for fire vehicles until such time the Fire Department is able to procure their vehicle onboard equipment and migrate to Glance system.

## **Conclusion**

Based on the technical evaluation of the proposals, it is recommended that Applied Information Inc. be awarded the contract for the supply the Glance Transit Signal Priority and Emergency Vehicle Preemption system in the amount of \$1,791,375.50 (excluding HST) in accordance with Section 12.2 (b) of the Procurement of Goods and Services Policy.

**Prepared by:** Shane Maguire, P. Eng., Division Manager, Traffic Engineering  
**Submitted by:** Doug MacRae, P. Eng., MPA, Director, Transportation and Mobility  
**Recommended by:** Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager, Environment and Infrastructure

November 25, 2021/

Attach: Appendix A – Source of Finance