

City of Mississauga
Corporate Report



<p>Date: August 27, 2025</p> <p>To: Chair and Members of General Committee</p>	<p>Originator's files:</p>
<p>From: Sam Rogers, MBA, Commissioner of Transportation and Works</p>	<p>Meeting date: October 1, 2025</p>

Subject

Single Source Approval for an Advanced Transportation Management System

Recommendation

1. That the Chief Procurement Officer or designate be authorized to award and execute the single source contract with respect to the purchase between The Corporation of the City of Mississauga and Parsons Inc. for the supply and delivery of the software, hardware, licenses, and maintenance and support of the City's traffic signals system in the amount of \$2,500,000, exclusive of taxes, for a term of up to ten (10) years, as outlined in the corporate report entitled "Single Source Approval for an Advanced Transportation Management System" dated August 27, 2025 from the Commissioner of Transportation and Works, and all necessary agreements and related ancillary agreements, all in a form satisfactory to the City Solicitor, in accordance with the City's Procurement Bylaw 0013-2022, as amended.
2. That all necessary by-laws be enacted.

Executive Summary

- This report seeks approval to authorize the Chief Procurement Officer or designate to negotiate, amend and execute contracts with Parsons Inc. for the supply and delivery of software, hardware, licenses, and maintenance and support for the City's Advanced Transportation Management System.
- The City has made a significant investment in traffic signals system technology. It would be cost prohibitive to replace the existing traffic signal system with different technology. The existing system is a modern system capable of managing the traffic signals network and traffic data collection from various sources with robust reporting and analytics.
- The ability to deliver services and comply with regulatory requirements is dependent on the technology currently utilized and integrated with existing City business process.
- The necessary operating and capital budgets required to support the City's traffic signals

□ system have been requested through the City's business planning process.

Background

In 2014, the City procured a new state of the art Advanced Transportation Management System (ATMS) solution through a competitive bidding process. This new solution replaced the previous traffic signal system that had grown beyond its lifecycle. The solution that was sought needed to have the ability to provide pro-active traffic management and allows staff to respond to real time traffic conditions. In addition, the ATMS needed to be adaptable to technology changes for improved transportation management. Lastly, the solution needed to integrate into the City's IT environment. The successful supplier of the competitive procurement process was Parsons Inc., who provided a solution that met the City's current and future transportation management needs. The solution is called Intelligent NETWORKS (iNET) and it is proprietary to Parsons Inc.

The current contract with Parsons Inc. will expire November 30, 2025 and staff are seeking authority to extend the current contract for 5 years with the ability to extend up to an additional 5 years. Parsons Inc. has demonstrated over the years their ability to implement, manage and expand their ATMS to meet the current and future transportation management needs of the City.

The City manages 816 traffic signals within the municipal boundaries, including those under the jurisdictions of Peel Region, the Ontario Ministry of Transportation, the Greater Toronto Airport Authority and Halton Region. All signalized intersections communicate with the ATMS using advanced communication technology ensuring consistent and uniform traffic signals operations across the city.

The Parsons Inc. solution allows staff to actively manage the health of the traffic signals across the city. In addition, it provides staff with the ability to integrate and manage existing and future Intelligent Transportation Systems (ITS) such as detection, traffic control strategies (e.g. adaptive), incident management, traveler information, Transit Signal Priority (TSP) and Emergency Vehicle Preemption.

Comments

Staff have reviewed the current ATMS provided by Parsons Inc. and have determined the solution meets the City's current and future requirements for pro-actively managing planned and unplanned traffic conditions within Mississauga. Ongoing maintenance and support from Parsons Inc. will keep the system up to date and continue to meet those requirements.

The City has already invested \$7 million in deploying and configuring the current ATMS, which included the construction of a traffic management centre, installation of new traffic controller units at all intersections within the city, established communications with all traffic signals in the field with the system, launching of iNET and implementation of ITS solutions. Parsons Inc.'s

ATMS is designed to meet the National Transportation Communication for ITS Protocol (NTCIP) standard, meaning, other ITS solutions can be integrated to allow for expandability of the current City solution by other North American vendors, avoiding vendor lock-in and reducing long-term costs. In addition, the current ATMS is fully integrated with the future Hurontario LRT system, and replacing it would require extensive reinvestment and technical effort to re-establish compatibility. Additionally, Peel Region, the Ontario Ministry of Transportation, the Greater Toronto Airport Authority and Halton Region rely on the City's current ATMS to operate and maintain their intersections within Mississauga, reinforcing the importance of maintaining a unified and stable platform. Renewing this contract is essential to sustaining multiple jurisdictional coordination and infrastructure reliability within Mississauga. Considering there is only one supplier of the City's ATMS as it is proprietary to Parsons Inc. and the significant investment that has been made by the City, staff are recommending to proceed with an extension to the existing contract with Parsons Inc.

Procurement Bylaw Authorization

The contract with Parsons Inc. will be executed under Procurement By-law 0013-2022, as amended, Schedule 'A' (1) using the Single Source procurement justifications:

(h) For additional Goods and/or Services from the original Supplier that were not included in the original Procurement, if the change of Supplier for such additional Goods and/or Services cannot be made for:

(i) Economic or technical reasons such as requirements of interchangeability or interoperability with existing equipment, software, services or installations procured under the initial Procurement; and

(ii) Would cause significant inconvenience or substantial duplication of costs for the City.

Financial Impact

- Capital funding of \$500,000 (\$50,000 per year, over the next ten (10) years) is required to accommodate the ATMS annual growth including potential software, hardware and professional services needs. Existing funding is currently available under approved capital projects (PN 24173 & 25173). Years 2-10 will be subject to council approval during the development of the Capital Budget.
- The existing contract is funded through the 2025 approved traffic operating budget (cost center 23973, GL 715636) with an estimated expense of approximately \$200,000 annually. The subsequent years will be subject to budget approvals.

Conclusion

Given the City's substantial investment in the ATMS, the proprietary iNET solution, provided by Parsons Inc., extending the existing contract is both economically and operationally prudent.

Parson Inc.'s ATMS continues to meet the City's evolving traffic management needs. Staff recommend proceeding with a single source contract to ensure continuity of service, system integrity and alignment with the City's long-term transportation goals.



Sam Rogers, MBA, Commissioner of Transportation and Works

Prepared by: Leslie Green, P. Eng. Manager Traffic Signals and Systems