



Report to: Development Services Committee

Meeting Date: May 21, 2024

SUBJECT: Award of RFP 218-R-23 Consulting Services for Detailed Design, Contract Administration and Site Inspection Services for Pedestrian Crossovers (PXOs) and Traffic Signals Program

PREPARED BY: Manzora Nero, Capital Works Engineer, Ext. 2017
Salia Kalali, Senior Manager, Infrastructure & Capital Projects, Ext. 2360
Tony Casale, Senior Construction Buyer, Ext. 3190

RECOMMENDATIONS:

- 1) That the report entitled “Award of RFP 218-R-23 Consulting Services for Detailed Design, Contract Administration and Site Inspection Services for Pedestrian Crossovers (PXOs) and Traffic Signals Program” be received;
- 2) That the contract for consulting engineering services for the detailed design, contract administration and site inspection for the PXOs and Traffic Signals program be awarded to the highest ranked, lowest priced bidder, Parsons Inc., in the amount of \$418,818.72 inclusive of HST;
- 3) That an allowance in the amount of \$71,232.00, inclusive of HST, be established for Subsurface Utility Engineering investigations during the design, and for geotechnical investigation and material testing during construction which may be required and approved by the Director of Engineering;
- 4) That a 10% contingency in the amount of \$49,005.07, inclusive of HST, be established to cover any additional consulting services to deliver the project and that authorization to approve expenditures of this contingency amount up to the specified limit be in accordance with the Expenditure Control Policy;
- 5) That the Engineering Department Capital Administration fee in the amount of \$48,515.02 be transferred to revenue account 640-998-8871 (Capital Administration Fee);
- 6) That the cost in the amount of \$587,570.81 (\$418,818.72 + \$71,232.00 + \$49,005.07 + \$48,515.02) be funded from capital accounts 23106, 23107, 24047, and 24048 with available budget of \$566,148.46;
- 7) That the budget shortfall in the amount of \$21,422.35 be funded from the Engineering Capital Contingency account which has a balance of \$100,000.00 as of April 15, 2024;
- 8) That the individual budgets for consulting engineering services for the detailed design, contract administration and site inspection for the PXOs and Traffic Signals program be consolidated into 083-5350-24048-005; and,

- 9) That Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

The purpose of this report is to obtain Council approval to award the contract for detailed design, contract administration and site inspection services for new PXOs at three locations and new traffic signals at five intersections.

BACKGROUND:

The implementation of PXOs and traffic signals at the various locations have been combined into one program for efficiency in design and implementation. Attachment ‘A’ provides a location map for the program. The anticipated design completion is February 2025 with construction planned to commence in Spring 2025 and be completed by December 2025. The construction budgets have been obtained for the three PXO locations and two of the traffic signal locations. A 2025 construction budget will be requested for the remaining three traffic signal locations.

Traffic Signals

Traffic signals are warranted at the following five intersections, per the Ontario Traffic Manual – Book 12 criteria, to improve intersection safety and operations, and accommodate future growth needs:

- Bur Oak Avenue and Williamson Road;
- Bur Oak Avenue and Country Ridge Drive / Fred McLaren Boulevard;
- Bur Oak Avenue and Donald Sim Avenue;
- Bur Oak Avenue and Emery Hill Boulevard / Hillwood Street; and
- Kirkham Drive and New Dehli Drive / Ironstone Court.

Pedestrian Crossover (PXOs)

PXOs are warranted at the following three locations, per the Ontario Traffic Manual – Book 12 criteria, to provide safe crossings for pedestrians:

- 9th Line, North of 14th Avenue;
- Village Parkway, South of Briarwood Road; and
- Village Parkway, North of Wentworth Court.

Bid Information (218-R-23):

Bids closed on	March 14, 2024
Number picked up the Bid document	11
Number responded to the Bid	5

Proposal Evaluation:

The evaluation team was comprised of staff from the Engineering Department and facilitated by staff from the Procurement Division. The City released this RFP utilizing a two-stage evaluation process.

Stage 1 – Technical Evaluation

Under Stage 1 – Technical Evaluation, Bidders were assessed based on pre-established evaluation criteria as outlined in the Request for Proposal (RFP); 20% corporate experience, project team and structure, 25% project understanding and approach, 20% project resources and workplan, and 5% proposal structure and quality. Bidders that did not achieve a technical score of 52.5 out of 70 points (75%) would not proceed any further and their financial proposal would remain sealed in the bidding system. All five of the bidders achieved the minimum technical score to proceed to Stage 2 – Financial Evaluation.

Stage 2 – Financial Evaluation

Under Stage 2 – Financial Evaluation, Bidders were assessed based on their Bid Price exclusive of HST. The highest ranked bidder was determined by adding the points awarded under Stage 1 Technical Evaluation and Stage 2 Price Evaluation.

Bidder	Technical Score	Financial Score	Total Score (out of 100)
Parsons Inc.	65.00	30.00	95.00

Bid prices ranged from \$490,050 to \$1,143,615 inclusive of HST.

OPTIONS/DISCUSSION:

Parsons Inc. have the required experience, qualifications and capability to undertake a study of this size and scope and have demonstrated a comprehensive understanding of the project requirements, reflected in the proposed detailed methodology and work plan.

FINANCIAL CONSIDERATIONS:

Recommended bidder	Parsons Inc. (Highest ranked / Lowest priced bidder)	
Current budget available	\$ 84,552.00	083-5350-23106-005 – New Traffic Signals (Design)
	\$ 91,377.00	083-5350-23107-005 – Pedestrian Cross-Over (PXO)
	\$ 158,400.00	083-5350-24047-005 – New Traffic Signals (Design & CA)
	<u>\$ 231,819.46</u>	083-5350-24048-005 – Pedestrian Cross-Over (PXO)
	\$ 566,148.46	Total
Less cost of award	\$ 418,818.72	Consulting Services (Incl. of HST)
	\$ 71,232.00	Cash Allowances*
	<u>\$ 49,005.07</u>	Contingency @ 10%
	\$ 539,055.79	Cost of award (Incl. of HST)
	<u>\$ 48,515.02</u>	Internal Management Fees
	\$ 587,570.81	Total Cost
Budget remaining after this award	(\$ 21,422.35)	**

*The cash allowance is for subsurface utility engineering investigations during design, and for geotechnical investigations and material testing during construction.

**The budget shortfall in the amount of \$21,422.35 will be funded from the Engineering capital contingency account which is funded from Development Charges and has a balance of \$100,00.00 as of April 15, 2024.

OPERATING BUDGET AND LIFE CYCLE IMPACT:

The Operating Budget and Life Cycle impacts will be determined at time of construction award and the new pedestrian crossovers and traffic signals installed will be added to the Life Cycle inventory during the next update of the Life Cycle Reserve Study.

ALIGNMENT WITH STRATEGIC PRIORITIES:

The proposed work is required to continue to accommodate growth and improve safety in the City of Markham. The program aligns with the City's Strategic Plan goals of "Safe & Sustainable Community" and "Stewardship of Money & Resources".

BUSINESS UNITS CONSULTED AND AFFECTED:

Finance has reviewed and approved the report.

RECOMMENDED BY:

Frank Clarizio, P.Eng.
Director, Engineering

Arvin Prasad, MPA, RPP, MCIP
Commissioner, Development Services

ATTACHMENTS:

Attachment 'A' – Location Map

Attachment 'A' – Location Map



Note: PXO locations are labeled in purple, and traffic signals locations are labeled in orange.