



SUBJECT: Tender Award for Harvester Road area works

TO: Committee of the Whole

FROM: Capital Works

Report Number: CW-52-17

Wards Affected: 4

File Numbers: 570.02-804

Date to Committee: May 29, 2017

Date to Council: June 12, 2017

Recommendation:

Approve the tender for Contract No.: CW 17-07, Harvester Road area – various streets rehabilitation, submitted by Fermar Paving Limited; be accepted at a total price of \$3,731,639.91 (HST included); and

Direct the Mayor and Clerk to execute Agreements of Purchase and Sale in a form approved by the City Solicitor for the acquisition of the land required for this project; and

Direct the Mayor and City Clerk to sign related documents; and

Direct the City Clerk to prepare the debenture by-law; and

Approve the total project cost of \$4,176,400; be charged to Capital Order RA0223 to be funded as detailed in Appendix A.

Purpose:

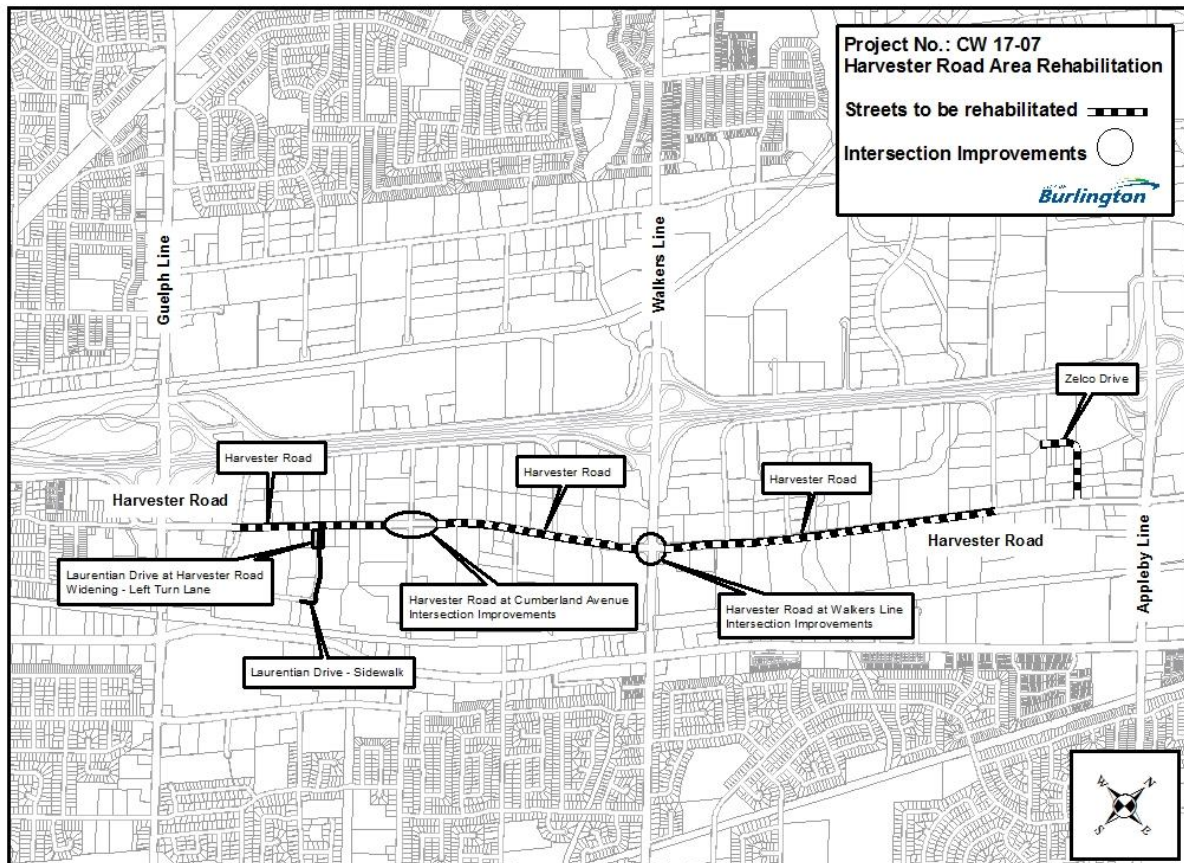
A City that Moves

- Increased Transportation Flows and Connectivity

Background and Discussion:

This capital works projects will include for the renewal and transportation improvements on Harvester Road, Laurentian Drive and Zelco Drive. These streets are included for renewal in the 2017 Capital Budget.

The work will include the following:



Harvester Road Resurfacing

Limits of Work: Laurentian Drive (east leg) to South Service Road (west of Appleby Line)

Scope of Work: Mill and pave 60mm HL1

Additional depth mill and pave in prescribed areas.

Curb and gutter, sidewalk and multiuse path repairs as identified.

Harvester Road at Cumberland Avenue

Limits of Work: Intersection

Scope of Work: New left turn lane

Traffic signal modifications

Mill and pave 60mm HL1

Curb and gutter and sidewalk as required.

Storm sewer modifications as required.

Additional work at Harvester Road @ Cumberland Avenue

Most of the traffic signal infrastructure modifications are the result of the geometric improvements to the roadway. The widening of this roadway will result in the relocation of traffic signal related infrastructure. These geometric improvements are being made in order to improve efficiency and safety. This roadway is utilized by trucks due to its proximity to industrial zones. Trucks require a larger turning radius, slow down vehicular traffic and can cause sightline issues for other turning vehicles. The installation of the eastbound and westbound left-turn only lanes will help to decrease poor sightlines, which will potentially decrease turning movement related collisions. They will also decrease the potential for rear-end collisions as traffic delays will decrease. This is because the through traffic will not experience sudden stops due to left-turning vehicles. Through traffic will also move much more efficiently, as 2 lanes can now be utilized for both the eastbound and westbound traffic.

This work was not included in the scope of works provided for in the Capital Budget. This additional work was being considered for inclusion in a future year however inclusion in this project provides significant economic benefits.

Harvester Road at Walkers Line

Limits of Work: Intersection

Scope of Work: Traffic signal modifications

Mill and pave 60mm HL1

Curb and gutter and sidewalk as required.

Storm sewer modifications as required.

Walkers Line, new south bound right turn lane

Additional work at Walkers Line @ Harvester Road

Currently this intersection has a shared southbound through/right. This is causing capacity issues during the red phase, as vehicles travelling through are holding up the large number of right-turning vehicles (especially during the AM peak). This is causing queuing towards the QEW. The installation of a "right-turn only" lane will move right-turning vehicles more efficiently, as they can now proceed in the westbound direction during the red phase, thus decreasing the queuing in the curb lane. This could potentially decrease rear-end collisions as traffic delays will decrease. This is because the through traffic will not experience sudden stops due to right-turning vehicles. This will also help to move the southbound through traffic more efficiently.

Not only will these improvements help with efficiency and safety, they will also lay the traffic signal infrastructure foundation for any future geometric changes.

This work was not included in the scope of works provided for in the Capital Budget. This additional work was included in the larger project which included dual lefts which was planned for 2016 but differed indefinitely due to funding constraints. The traffic signal work has been designed to accommodate the future roadworks when they occur. The inclusion of this work in this project provides significant economic benefits.

Harvester Road at Laurentian Drive (east leg)

Limits of Work: Intersection

Scope of Work: Laurentian Drive, new left turn lane.

Mill and pave 60mm HL1

Curb and gutter and sidewalk as required.

Storm sewer modifications as required.

Additional work at Harvester Road @ Laurentian Drive

The geometric improvements at this intersection can be attributed to increasing the radius for truck turning traffic as there is evidence of trucks driving over the curb in order to complete the turn safely. The installation of the left-turn lane will decrease queuing by allowing the right-turning vehicles to travel eastbound unencumbered by those vehicles waiting to go westbound (left). This will decrease driver frustration and move traffic more efficiently.

This work was not included in the scope of works provided for in the Capital Budget. This additional work was being considered for inclusion in a future year however inclusion in this project provides significant economic benefits.

Zelco Drive Resurfacing

Limits of Work: Full length

Scope of Work: Remove asphalt, place 60mm HDBC and 50mm HL1

Curb and gutter repairs as identified.

Laurentian Drive Sidewalk

Limits of Work: East leg.

Scope of Work: Concrete sidewalk.

Financial Matters:

Bid Results:

Earlier this year Request for Prequalification RPQ-502-16 General Contractors required for Multiple Projects Civil Reconstruction was completed. RPQ-502-16 confirmed eight

general contractors as being prequalified to bid on this tender. Four bids were received. All eligible bidders are listed.

The tender closed on Wednesday May 3, 2017. The following table is a list of tenders received. The contract is recommended to be awarded to the lowest compliant bidder (named first).

No.	Name of Company	Total Bid Including HST
1	Fermar Paving Ltd.	\$3,731,639.91
2	King Paving & Construction Company	\$3,803,950.64
3	Dufferin Construction Company	\$3,990,992.76
4	Capital Paving Inc.	\$4,141,542.94
5	Coco Paving Inc	No bid.
6	Tedescon Infrastructure	No bid.
7	Rankin Construction Inc.	No bid.
8	Wesroc Infrastructure Ltd.	No bid.

Total Financial Impact

The total project cost of \$4,176,400 is to be charged to Capital Order RA0223 to be funded as detailed in Appendix A.

Source of Funding

As identified, this project includes additional funding in the amount of \$274,400 for works not provided for in the Capital Budget as described above. This additional funding is provided from Tax Supported Debt made available through savings from other Contract CW-17-11 awarded this spring. Please refer to Appendix A.

Public Engagement Matters:

A project web site has been created.

A public information meeting was held at Mainway Recreation Centre on Thursday March 23, 2017 to provide information about the construction schedule and associated traffic impacts.

Area residents and business owners were notified by:

- Direct mail
- Advertisement in the Burlington Post
- Advertisement through the City's activities calendar.

The meeting provided:

- Construction plans and schedule,
- An open forum for resident questions.

No significant concerns were identified by property or business owners as a result of the proposed construction.

Upon award of this contract, letters will be delivered to affected homes and businesses prior to the beginning of construction. As construction progresses, project updates will be delivered to affected residents on a regular basis.

The project updates and associated road closure information will also be made available on the City's website.

Conclusion:

Staff are recommending that Capital Works Tender CW 17-07, Harvester Road Area – Various Street Rehabilitation, be awarded to Fermar Paving Limited.

Respectfully submitted,

Bob Jurk, Senior Project Manager

Senior Project Manager

905-335-7600 ext. 7682

Appendices:

A. Financial Details

Report Approval:

All reports are reviewed and/or approved by Department Director, Director of Finance and Director of Legal. Final approval is by the City Manager.

Appendix A: Financial Details

Contract No.: CW-17-07	Capital Order No.: RA0223
Report No.: CW -52-17	Report Date: May 3, 2017

		PROJECT BUDGET	TENDER AWARD
Contracted Construction	\$	3,353,901	\$ 3,302,337
Net HST (1.76%)	\$	<u>59,029</u>	\$ <u>58,121</u>
Subtotal Contracted Construction (Net HST)	\$	3,412,930	\$ 3,360,457
Construction Contingency	\$	240,166	\$ 235,232
Asphalt Cement Adjustment	\$	<u>15,404</u>	\$ <u>78,709</u>
Total Contracted Construction - rounded	\$	3,668,500	\$ 3,674,400

Internal Costs

- Administration	\$	34,766	\$ 48,672
- Design Services	\$	76,484	\$ 159,922
- Inspection	\$	59,797	\$ 75,094
- Other (Survey, Legal, RPM)	\$	<u>6,953</u>	\$ <u>25031</u>
Total Internal Costs - rounded	\$	178,000	\$ 308,700

External Costs

- Consulting Fees	\$	16,000	\$ 21,583
- Tender & Advertising Costs	\$	3,500	\$ 3,500
- Other Miscellaneous including Land	\$	24,000	\$ 66,000
- Utilities and Traffic Signal Equipment Supply	\$	<u>12,000</u>	\$ <u>102,258</u>
Total External Costs - rounded	\$	55,500	\$ 193,300

Total Project Costs	\$	3,902,000	\$ 4,176,400
----------------------------	-----------	------------------	---------------------

Total Project Financing

- Tax Supported Debt (RA0226)	\$	3,360,000	\$ 3,360,000
- Capital from Current (RL0270)	\$	372,000	\$ 372,000
- Capital from Current (SW0099)	\$	24,000	\$ 24,000
- Tax Supported Debt (RL0290)	\$	0	\$ 274,400
- Future Services Reserve Fund (SW0099)	\$	<u>146,000</u>	\$ <u>146,000</u>
Total Project Financing	\$	3,902,000	\$ 4,176,400