

Municipality of Chatham-Kent

Infrastructure and Engineering Services

Engineering and Transportation Division

To: Mayor and Members of Council

From: Chris Thibert, P. Eng.
Director, Engineering and Transportation

Date: June 18, 2018

Subject: Tender Award - Contract T18-110 Road Crack Cleaning and Sealing

Recommendations

It is recommended that:

1. The 2018 Road Crack Cleaning and Sealing Maintenance Program be approved.
2. The tender in the amount of \$309,444.85 including HST for road crack cleaning and sealing be awarded to 2228977 Ontario Inc. O/A RanN Maintenance for the sections of roads noted in Appendix A and B.
3. The Mayor and Clerk be authorized to sign the necessary agreements.

Background

Road crack cleaning and sealing provides an economically effective treatment to maintain asphalt roads that are experiencing early stages of transverse and longitudinal cracking. Typically, it is used to prevent water and debris from entering cracks in asphalt roads. Limiting water infiltration protects the underlying pavement layers and reduces the detrimental effects of freeze thaw cycles. Best practice has demonstrated that application of crack sealant material to roads experiencing early stages of cracking (usually between 2-3 years after new pavement is placed) can expect to have their life expectancy increased by 3 years. As such, road crack cleaning and sealing is a cost effective treatment to prolong pavement life.

Fugro Roadware was retained to assess the condition, provide data analysis and develop a multi-year maintenance and resurfacing guideline for our hard surface road network. Condition ratings, decision trees and budgeting scenarios were utilized to suggest rehabilitation categories and timelines.

The 2018 road crack cleaning and sealing maintenance program targeted suggested segments within Year-1 and Year-2, in the Maintenance-1 category. This category is composed of three possible strategies. The strategies are essentially driven by the

Pavement Condition Index (PCI) score 0-100, with 100 representing a pavement in excellent condition. Generally it was found that within the three main road classes, segments in the 70-90 PCI range are most suitable candidates for this type of application.

Comments

The contract provides for the supply and application of road crack cleaning and sealing to be applied on various roads throughout Chatham-Kent.

Areas for maintenance were identified, reviewed and prioritized by the Engineering and Transportation Division and through consultation with the Public Works Division. Road segment selections are based on rehabilitation history, condition ratings, reference of the 'Fugro' multi-year maintenance/resurfacing guideline and field inspection to confirm their suitability.

The attached Appendix A (Table 1 - Street and Road Extent Details for Contract T18-110, Road Crack Cleaning and Sealing) describes the road segments in the 2018 program. A location key plan is attached (Appendix B) to assist Council in further identifying the sites.

Two general contractors submitted competitive bids for the 2018 road crack cleaning and sealing program and are within the budget estimate set at \$300,000. Funds were included in the 2018 Roads Lifecycle Budget.

Tenders were called and received by the Purchasing Officer on Thursday, May 24, 2018.

The results are as follows:

Tender: Contract T18-110 Road Crack Cleaning and Sealing

Rank	Tenderer	Amount (incl. HST)	Amount (excl. HST)
1	2228977 Ontario Inc. O/A RanN Maintenance	\$309,444.85	\$273,845.00
2	Shepley Road Maintenance Ltd.	\$351,147.50	\$310,750.00

The Engineering and Transportation Division has reviewed the tenders and found them to be complete in all respects.

The winning bidder, 2228977 Ontario Inc. O/A RanN Maintenance, completed the 2015, 2016 and 2017 Road Crack Cleaning and Sealing Maintenance Programs. This evaluation found that the bid received is within 3% of the average pricing for the last 3 year bid prices by 2228977 Ontario Inc. O/A RanN Maintenance.

The project costs are summarized in the Financial Implications section of this report.

Areas of Strategic Focus and Critical Success Factors

The recommendations in this report support the following areas of strategic focus:

- Economic Prosperity:
Chatham-Kent is an innovative and thriving community with a diversified economy
- A Healthy and Safe Community:
Chatham-Kent is a healthy and safe community with sustainable population growth
- People and Culture:
Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community
- Environmental Sustainability:
Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

- Financial Sustainability:
The Corporation of the Municipality of Chatham-Kent is financially sustainable
- Open, Transparent and Effective Governance:
The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership
- Has the potential to support all areas of strategic focus & critical success factors
- Neutral issues (does not support negatively or positively)

Consultation

The tenders were opened by the Purchasing Officer and reviewed by the Engineering and Transportation Division.

The Managers of Public Works (North and South) were consulted on the road listing.

Financial Implications

This project is being funded from the 2018 Roads Lifecycle Budget, which includes funds under the Association of Municipalities of Ontario (AMO)/Federal Transfers of Federal Gas Tax Funding Agreement and the Ontario Community Infrastructure Fund.

The project is summarized in the following table:

Contract T18-110 Crack Cleaning and Sealing

	Description	Total
(A) Project Costs	Low Tender, with HST	\$309,444.85
	Less HST Rebate (11.24%)	\$(30,780.18)
	Project Total	\$278,664.67
(B) Project Funding	Lifecycle Roads	\$278,664.67
	Funding Total	\$278,664.67

Prepared by:

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Consulted and confirmed the content of the consultation section of the report by:

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Purchasing Officer
Financial Services

c. Purchasing Officer, Financial Services
Manager, Public Works North
Manager, Public Works South

Attachments: Appendix A - Table 1, Street and Road Extent Details for Contract T18-110
Appendix B - T18-110 Road Crack Cleaning and Sealing Location Key Plan

Appendix A - Table 1

Street and Road Extent Details for Contract T18-110, Road Crack Cleaning and Sealing*

COMMUNITY	ROAD NAME	START	END	LENGTH_m	CLASS	PCI
Romney	TALBOT TRAIL	Cedar Rd	Ellerbeck Rd	2790	arterial	80,83,85
Romney/Tilbury E	PORT RD	500m N of Talbot Trail	Glenwood Ln	3947	collector	90,95**
Raleigh	EIGHTH LINE	600m W of Dillon Rd	Drake Rd	3046	collector	87,91
Raleigh	CHARING CROSS RD	N of Cedar Springs	Fifteenth Ln	3469	arterial	77,83
Harwich	BISNETT LINE	Erieau Rd	Erie Shore Dr	2016	local	82,86
Harwich	BISNETT LINE	Communication Rd	Fargo Rd	1367	local	87
Harwich/ Chatham	CREEK RD	Park Av E	Doyle Ln	4542	collector	81,82,85,86
Camden/ Zone	FLORENCE RD	Base Ln	1500m N of Fairfield Ln	4551	collector	73,81
Chatham Twsp	LONGWOODS RD	E of Prince Albert Rd	Centre Side Rd	4219	arterial	92,94,98**
Chatham Twsp	LONGWOODS RD	Arkwood Rd	Lindsay Rd	1965	arterial	89
Camden	LONGWOODS RD	Huff Sd Rd	W Thamesville Limits	4397	arterial	87
Camden	CROTON LINE	Gould Rd	Dawn Mills Rd	3676	collector	97,98**
Dover	GRANDE RIVER LINE	Bear Line Rd	250m W of Winterline Rd	5086	collector	83,87
Dover	WINTERLINE RD	Pain Court Ln	Maple Ln	1401	collector	100**
Dover	WINTERLINE RD	Heron Ln	St Philippes Ln	2760	collector	97,98**
Orford	ORFORD RD	Spence Ln	Turin Ln	2062	collector	88
Harwich	RIDGE LINE/TALBOT E	Pook Rd	1.5 km W of Mull Rd	3303	arterial	74,85,89,94**
Howard	REEDERS LINE	Moore Rd	Kenesserie Rd	3478	local	91


*Roads are prioritized as work proceeds. Any quantities subject to change (increase/decrease) may affect quantities and/or road sections completed within the available funding limits.

**Higher PCI numbers reflect the time lapse between the rating date and deterioration upon field inspection. Likewise there may be cases where lower PCI numbers may still be suitable upon field verification.

APPENDIX B

LOCATION KEY PLAN

Legend:

 CRACK SEALING LOCATIONS

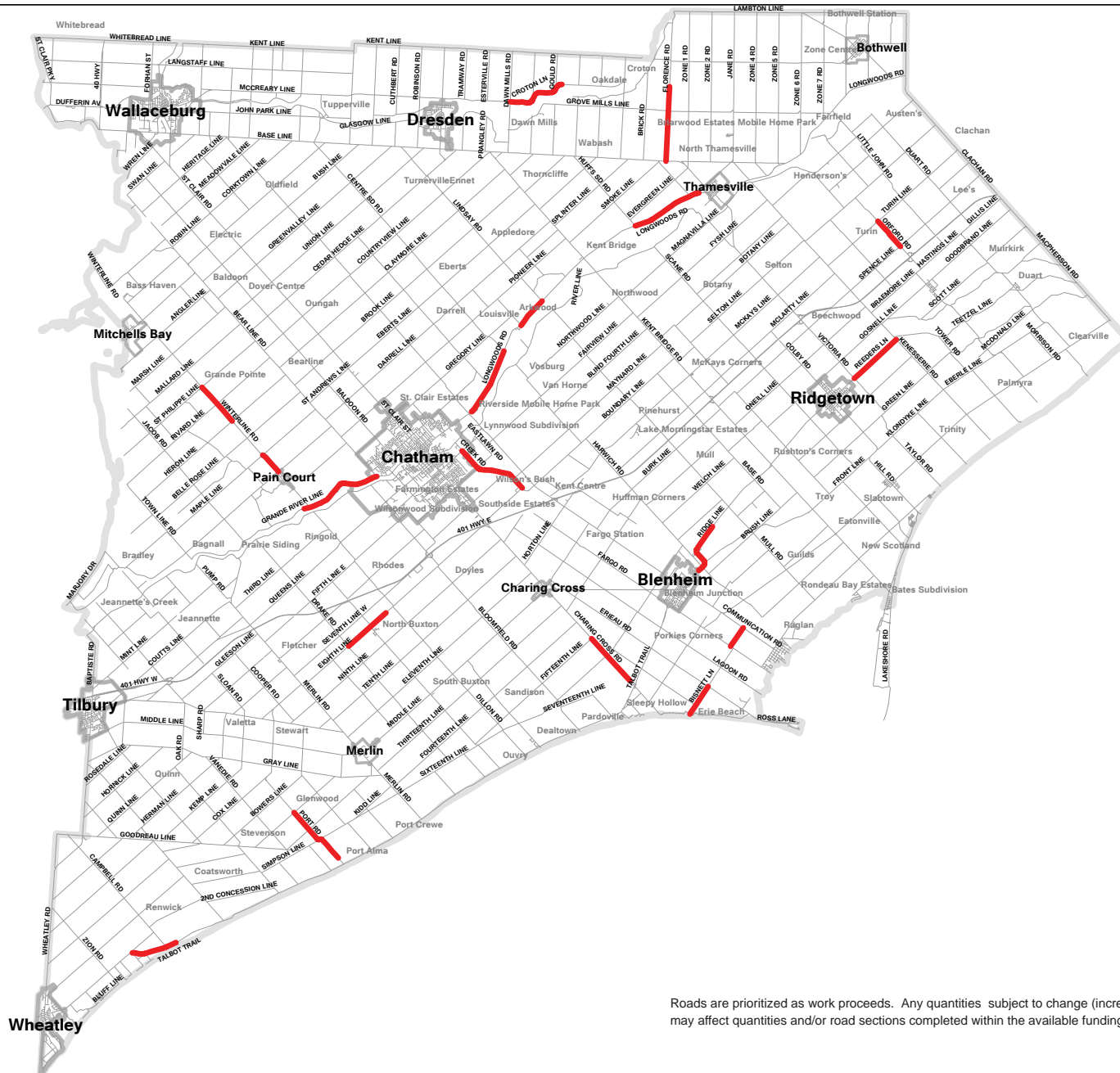
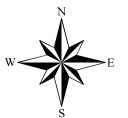
T18-110

ROAD CRACK CLEANING AND SEALING



INFRASTRUCTURE & ENGINEERING SERVICES
ENGINEERING & TRANSPORTATION DIVISION

Date: 08/05/2018



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