

Municipality of Chatham-Kent

Infrastructure and Engineering Services

Engineering and Transportation Division

To: Mayor and Members of Council

From: Eric Gerrard, P.Eng.,
Engineering Technologist

Date: March 24, 2021

Subject: Contract Extension: Contract T18-125 – Municipal Bridge Washing
(2021 & 2022)

Recommendations

It is recommended that:

1. The contract extension in the amount of \$203,852.00 (including HST) for the work associated with Contract T18-125 - Municipal Bridge washing, various communities throughout Chatham-Kent, be awarded to DeAngelo Brothers Limited of Oldcastle, Ontario.
2. The Mayor and Clerk be authorized to enter into the recommended agreements.

Background

The Engineering and Transportation Division has contracted the services associated with washing Municipal bridges and culverts for the past several years. The purpose of washing these structures is to clean off the salt and debris that has accumulated over the winter months. This debris can accelerate the deterioration of concrete and steel elements. Additionally, accumulated debris can clog deck drains and expansion joint assemblies, creating further operational issues.

Bridge and culvert washing operations are beneficial and good preventative maintenance because it removes detrimental materials from the structure surfaces in an attempt to extend the lifespan. Furthermore, annual washing operations provide benefits to the bi-annual bridge inspections (as mandated by Provincial Legislation). By clearing the staining and debris, inspectors are provided a clear view of all structural and non-structural components.

In 2018, contract T18-125 was tendered and awarded to DeAngelo Brothers Limited (DBi Services) for the cleaning of all major bridges and culverts throughout the Municipality of Chatham-Kent. This contract was worded as follows:

“The provision of Municipal Bridge and Culvert Washing services for 116 structures throughout the Chatham-Kent area for a 3 year term, with the option to renew for an additional 2 one-year contracts.”

As of the end of 2020, the original 3-year term of the contract was completed.

Comments

The Engineering and Transportation Division is recommending the renewal of this contract for the remaining two 1-year terms originally stated in the contract. The original contract T18-125 was awarded by Council on May 28, 2018, recommending the original 3-year term, but did not mention the additional two 1-year extensions that were included as provisional in the contract. The recommended renewals are for the upcoming years of 2021 and 2022.

Appendix A, which forms part of the Municipal Bridge washing contract, identifies which structures are to be washed, as well as the washing requirements at each location. The original contract listed 116 structures, however, the structure list has been revised to 110 structures.

The original tender was for \$300,631.98 over a 3-year term which equates to an average of \$100,210.66 per year. The costs for the additional two 1-year term extensions is in the amount of \$203,852.00. This equates to an average of \$101,926.00 per year. The slight increase in costs is due to additional costs in labour, materials and equipment over the past three (3) years.

The contract administration and inspection duties required to administer this contract are being completed by Chatham-Kent Engineering staff.

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

This contract extension was reviewed by the Engineering and Transportation Division and with the Purchasing Officer.

Financial Implications

Project fees associated with this contract will be funded as summarized in the following table:

Financial Implications
T18-125 Municipal Bridge Washing – 2 year Contract Extension
Project Costs

Current Project Costs (Including HST)	\$ 203,852.00
Less HST Rebate 11.24%	- \$ 20,276.96
Total Current Project Costs	\$ 183,575.04
Total Current Project Funding	\$ 183,575.04

The total current project costs listed above will be funded from the Bridge Lifecycle Reserve, which includes funds under the Association of Municipalities of Ontario (AMO) Federal Transfers of Federal Gas Tax Funding Agreement.

Prepared by:

Reviewed by:

Eric Gerrard, P.Eng.
Engineering Technologist,
Engineering and Transportation

Brendan Falkner, P.Eng.
Manager, Engineering
Engineering and Transportation

Reviewed by:

Reviewed by:

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

Thomas Kelly, P.Eng., MBA
General Manager,
Infrastructure and Engineering Services

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

Jennifer Scherle
Purchasing Officer

Attachments: Appendix A – Structure Summary

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Appendix A

Structure Summary and Bridge Washing Details

Dover														
No.	Identifier	Bridge Description	Remarks	Abutments	WingWalls	Approaches	Barriers	Curbs	Deck	Joints	Drains	Sidewalks	Underside	Bearing Seats
DO1	GM722	Winter Line over Boyle Drain	Winter Line 360 m SE of St.Phillipes Line	X	X	X	-	X	X	X	X	-	-	X
DO2	GM729	Marsh Line over Hind Relief Drain	Marsh Line 625 m E of Winter Line	X	X	X	X	X	X	X	X	-	-	-
DO3	GM809	Winter Line over Hind Relief Drain	Winter Line 700 m NW of Marsh Line	X	X	X	X	X	X	X	X	X	-	-
DO4	GM798	Heritage Line over Whitebread Pumping Works	Heritage Line at Bear Line	X	X	X	X	X	X	X	X	-	-	X
DO5	GM794	Bear Line Road over Little Bear Creek North	Bear Line 425 m NW of Robin Line	X	X	X	X	X	X	X	X	X	X	X
DO6	GM728	Baldoon Road over Whitebread Pumping Works	Baldoon Road at Swan Line	X	X	X	X	X	X	X	X	-	-	-
DO7	GM790	Bear Line over Little Bear Creek Drain South	Bear Line 35m NW of McLeod Creek Road	X	X	X	X	X	X	X	X	-	-	-
DO8	GM789	Electric Line over Little Bear Creek	Electric Line 450 m NE of Bear Line	X	X	X	X	X	X	X	X	X	-	-
DO9	GM725	Baldoon Road over Little Bear Creek Drain	Baldoon Road 675m NW of Bush Line	X	X	X	X	X	X	X	X	-	-	-
DO10	GM730	Meadowvale Line over Maxwell Creek Drain	Meadowvale Line 700m East of Baldoon Road	X	X	X	X	X	X	X	X	X	-	-
DO11	GM731	Baldoon Road over Maxwell Creek Drain	Baldoon Road 700m NW of Meadowvale Road	X	X	X	X	X	X	X	X	X	X	X
DO12	GM724	Green Valley Line over Little Bear Creek Drain	Green Valley Line 300 m SW of St.Clair Road	X	X	X	X	X	X	X	X	X	-	-
DO13	GM726	Bush Line over Little Bear Creek	Bush Line 725 m SW of St.Clair Road	X	X	X	X	X	X	X	X	X	-	-
DO14	GM818	Town Line over Rivard Drain	Town Line Road 100 m SE of Rivard Line	X	X	X	X	X	X	X	X	-	X	X
DO15	GM721	Heron Line over Rivard Drain	Heron Line 850 m NE of Town Line Road	X	X	X	X	X	X	X	X	-	-	-
DO16	GM718	Balmoral Road over McFarlane Relief Drain	Town Line Road 25 m SE of Balmoral Line	X	X	-	-	-	X	-	X	-	-	-
DO17	GM716	Townline Road over McFarlane Relief Drain	Town Line Road 30 m SE of Maple Line	X	X	X	X	X	X	X	X	X	-	-
DO18	GM717	Pain Court Line over McFarlane Relief Drain	Pain Court Line 1200 m SE of Jacob Road	X	X	X	X	X	X	X	X	X	-	-
DO19	GM719	Maple Line over Rivard Drain	Maple Line 25 m NE of Jacob Road	X	X	-	X	-	X	X	X	-	-	-
DO20	GM738	Given Line over Rivard Drain	Given Line 20 m NE of Jacob Road	X	X	-	X	-	X	X	X	-	-	-
DO21	GM817	Belle Rose Line over Rivard Drain	Belle Rose Line 20 m NE of Jacob Road	X	X	X	X	X	X	X	X	X	-	-
DO22	GM814	Jacob Line over Rivard Drain	Jacob Road 20 m SE of Heron Line	X	X	X	X	X	X	X	X	X	-	-
DO23	GM710	Big Pointe Road over Rivard Drain	Big Point Road SE of Maple Line	X	X	-	-	X	X	X	X	X	-	-
DO24	GM720	Winter Line over McFarlane Relief	Winter Line Road 460 m SE of Normandin Line	X	X	-	X	X	X	X	X	X	-	-
DO25	GM709	Winter Line over Rivard Drain	Winter Line Road 10 m SE of Maple Line	X	X	-	-	X	X	X	X	X	-	-

Kent Centre														
No.	Identifier	Bridge Description	Remarks	Abutments	WingWalls	Approaches	Barriers	Curbs	Deck	Joints	Drains	Sidewalks	Underside	Bearing Seats
KC1	GM691	Creek Road over McGregor Creek (South)	Creek Road 100 m SW of Communication Road	X	X	X	X	X	X	X	X	X	X	X
KC2	GM690	Creek Road over McGregor Creek (North)	Creek Road 60 m SE of Maynard Line	X	X	X	X	X	X	X	X	X	X	X
KC3	GM689	English Line over McGregor Creek	English Line 325 m SW of Creek Road	X	X	X	X	X	X	X	X	-	X	X
KC4	GM396	Creek Road over McGregor Creek Diversion Channel	Creek Road 700 m NW of English Line	X	X	X	X	X	X	X	X	X	X	X
KC5	GM785	Indian Creek Road over McGregor Creek Diversion Channel	Indian Creek Road 530 m NE of Creek Road	X	X	X	X	X	X	X	X	X	X	X
KC6	GM685	Indian Creek Road over McGregor Creek	Indian Creek Road 180 m SW of Creek Road	X	X	X	X	X	X	X	X	X	-	-
KC7	GM686	Indian Creek Road over Indian Creek	Indian Creek Road 425m Southwest of Creek Road	X	X	X	X	X	X	X	X	X	X	X
KC8	GM395	Colborne Street over McGregor Creek Diversion Channel	Colborne Street 900 m NE of Sass Road	X	X	X	X	X	X	X	X	X	X	X
KC9	GM688	Park Avenue over McGregor Creek	Park Avenue East 235 m NE of Siemens Drive	X	X	X	X	X	X	X	X	X	X	X
KC10	GM692	Horton Line over Lucas Drain	Horton Line 210 m SW of Communication Road	X	X	X	X	X	X	X	X	X	X	X
KC11	GM695	Charing Cross Road over Locke Drain	Gagner Line at Charing Cross Road	X	X	X	X	X	X	X	X	X	-	-
KC12	GM708	Mull Road over McGregor Creek	Mull Road 265 m SE of Pinehurst Line	X	X	X	X	X	X	X	X	X	X	X
KC13	GM784	Snobelen Road over McGregor Creek	Snobelen Road 115 m SE of Pinehurst Line	X	X	X	X	X	-	X	X	X	X	X

Thamesville														
No.	Identifier	Bridge Description	Remarks	Abutments	WingWalls	Approaches	Barriers	Curbs	Deck	Joints	Drains	Sidewalks	Underside	Bearing Seats
T1	GM429	Lambton Line over Sydenham River	Lambton Line 60 m W of Florence Road	X	X	X	X	X	X	X	X	X	-	-
T2	GM788	Oakdale Road over Sydenham River	Oakdale Road 100 m N of Cider Mill Road	X	X	X	X	X	X	X	X	X	X	X
Tilbury East														
No.	Identifier	Bridge Description	Remarks	Abutments	WingWalls	Approaches	Barriers	Curbs	Deck	Joints	Drains	Sidewalks	Underside	Bearing Seats
TE1	GM776	Tecumseh Line over Jeannette's Creek	Tecumseh Line 260 m SW of Poppe Road	X	X	X	X	X	X	X	X	X	X	X
TE2	GM765	Tecumseh Line over Baptiste Creek	Tecumseh Line 40 m NE of Baptiste Road	X	X	X	X	X	X	X	X	X	X	X
TE3	GM170	Coutts Line over Government Drain #1	Coutts Line at Pump Road	X	X	-	X	-	X	X	X	-	X	X
TE4	GM22	Queens Line over Government Drain #1	Queens Line at Merlin Road	X	X	-	X	-	X	X	X	-	X	X
TE5	GM826	Coutts Line over Baptiste Creek	Coutts Line 250 m NE of Dashwheel Road	X	X	-	X	X	X	X	X	-	X	X
TE6	GM734	Middleton Line over Two Creeks	Middleton Line 175m SW of Harbour Road	X	X	-	X	X	X	X	X	-	X	X
TE7	GM735	Klondyke Road over Two Creeks	Klondyke Road 200 m SE of Drovers Road	X	X	-	X	X	X	X	X	-	-	-
TE8	GM737	Third Concession Line over Two Creeks	3 rd Concession Line 16 m NE of Klondyke Road	X	X	-	X	X	X	X	X	-	-	-
TE9	GM11	Coutts Line over King & Whittle Drain	Coutts Line at Montpettit Road	X	X	-	X	X	X	X	X	-	-	-

