



The Corporation of the Town of Tecumseh

Public Works & Environmental Services

To: Mayor and Members of Council

From: Phil Bartnik, Director Public Works & Environmental Services

Date to Council: March 9, 2021

Report Number: PWES-2021-13

Subject: Amendment to the 2021 PWES Capital Works Projects County Road 19 Trunk Watermain Installation (from County Road 22 to south of Jamsyl Drive)

Recommendations

It is recommended:

That the County Road 19 Trunk Watermain Installation (from County Road 22 to south of Jamsyl Drive), **be added** to the 2021 Public Works & Environmental Services Capital Works Plan;

And that, in accordance with the 2018 Water and Wastewater Master Plan and based on the current development opportunities in the Manning Road Secondary Planning Area, the detailed engineering design and construction for this project **be completed** in 2021 in accordance with the County of Essex's schedule for their County Road 19 Road Improvements project;

And that the expenditures of \$758,000 for the detailed engineering design and construction **be funded** from the Watermain Reserve Fund;

And further that Dillon Consulting Ltd. **be retained** to complete the detailed design, plans and specifications, tender documents and inspection and contract administration as they are the retained consultant for the County of Essex County Road 19 Road Improvements project.

Background

A 200-mm diameter watermain currently services the area along County Road 19 from County Road 22 to just south of County Road 42 at Scott Road (Municipality of Lakeshore). Future

plans to increase the size of this transmission watermain to 400-mm has been identified in the Water and Wastewater Master Plan.

Water and Wastewater Master Plan, 2018

At the March 10, 2020 Regular Meeting of Council, Council adopted the Water and Wastewater Master Plan Update, 2018 (Motion: RCM-87/20). The 2018 Update built on the previous work undertaken as part of the 2002 Master Plan, the 2005 Master Plan Addendum, and the 2008 Master Plan Update. The 2018 Master Plan Update is a critical component in the committed approach to providing sustainable services and forms a new framework and vision for the water and wastewater servicing needs for the Town to 2038 and beyond.

The Water and Wastewater Master Plan determines project requirements based on projections for water demand or wastewater flow requirements of the service areas developed from the 2018 population projections. This process took into consideration a logical extension of growth from the existing development. The evaluation of timing also considered the availability of and need to maximize the use of existing infrastructure (within both the Town of Tecumseh and City of Windsor) and best judgement on reasonable timing of subsequent expansions.

The 2018 Master Plan Update identifies an updated servicing strategy with proposed capital costs of \$30.56M and \$57.64M for water and wastewater respectively. One of the recommended water projects identified is W-2B, the trunk watermain on County Road 19 from County Road 22 to CP Railway (see Attachment 1). This proposed trunk watermain on County Road 19 will strengthen the Town's distribution system and provide servicing for new development lands within the Manning Road Secondary Planning Area and the Tecumseh Hamlet East Planning Area south of County Road 22. The 2018 Master Plan Update identifies W-2B be installed within 0-5 years and suggests that it should be coordinated where possible with other road upgrades.

County of Essex - County Road 19 Municipal Class Environmental Assessment

The Ministry of Transportation (MTO) in association with the County of Essex (County) completed a Municipal Class Environmental Assessment (Class EA) regarding the widening of and improvements to portions of the County Road 19 (CR 19) and County Road 22 (CR 22) corridors. This Class EA was finalized in 2009.

The Class EA identified a number of ultimate solutions, which include:

1. Widening CR 19 from two to four lanes, with the portion from just north of Pike Creek to CR 22 changed from a rural to an urban roadway;
2. Widening CR 22 from four to six lanes;
3. Single point urban interchange at CR 19 and CR 22;
4. Partial interchange at CR 22 and Lesperance Road;
5. Highway 401 interchange improvements;

6. Double lane roundabout at CR 19 and CR 34; and
7. Grade separation of the CP Rail crossing.

Comments

Based on the cost of the County Road 19 EA recommended solution, construction of the ultimate design is not planned for the near future as the County will need to rely on funding support from upper levels of government. However, growth and expansion of the area has caused traffic congestion and an interim solution was recommended by the County to address the immediate concerns.

In 2017 the County implemented an interim solution at the County Road 22/County Road 19 intersection, and made improvements to the north, east and west legs to provide a greater level of service until the ultimate solution could be implemented. At this time, the south leg improvements of the intersection were not completed. The County of Essex is now proceeding with the design and construction of the south leg, which involves the interim widening of County Road 19 south of County Road 22 to Jamsyl Drive.

The south leg interim solution will consist of the following (see Attachment 2):

- Widening of County Road 19 to the south of Jamsyl Drive including an eastbound right fly off from County Road 22 onto County Road 19 and the addition of a southbound through lane to south of Jamsyl Drive;
- Closure of Desro Drive at County Road 19, with a cul-de-sac; and
- Intersection improvements, signalization and turning lanes at County Road 19 and Jamsyl Drive.

Administration is recommending the installation of a 400-mm diameter trunk watermain from County Road 22 to south of Jamsyl Drive as part of the County's CR 19 Road Improvements project planned for construction in 2021. There are efficiencies with incorporating the trunk watermain as part of the County's larger project. It also assists with the constructability of the East Townline Drain enclosure as the existing 200-mm diameter watermain will be abandoned providing additional space for the municipal drain within the County's right-of-way. Town Administration has had preliminary discussions with County Staff, who are favourable to incorporating the trunk watermain as part of their project.

Consultations

Planning & Building Services
Financial Services

Financial Implications

The estimated costs for the County Road 19 Trunk Watermain Installation project are as follows:

Infrastructure	Construction	Engineering	Contingency	Total
Watermain Reserve Fund	\$582,000	\$88,000	\$88,000	\$758,000

This section of trunk watermain was included within the Town's 2019 Development Charges Background Study and associated By-Law, where 80% of the costs attributable to water project W-2B would be funded through Development Charges. This relates to an estimated \$606,400 of the proposed phase of W-2B, which will be recoverable from the Town's DC Water Reserve Fund when sufficient DC revenue is collected. The Town's DC Water Reserve Fund is currently in a deficit position of approximately \$900,000. At this time, the project will be funded through the Watermain Reserve Fund.

Link to Strategic Priorities

Applicable 2019-22 Strategic Priorities

- ☐ Make the Town of Tecumseh an even better place to live, work and invest through a shared vision for our residents and newcomers.
- ☒ Ensure that Tecumseh's current and future growth is built upon the principles of sustainability and strategic decision-making.
- ☐ Integrate the principles of health and wellness into all of Tecumseh's plans and priorities.
- ☒ Steward the Town's "continuous improvement" approach to municipal service delivery to residents and businesses.
- ☒ Demonstrate the Town's leadership role in the community by promoting good governance and community engagement, by bringing together organizations serving the Town and the region to pursue common goals.

Communications

Not applicable ☒

Website ☐

Social Media ☐

News Release ☐

Local Newspaper ☐

This report has been reviewed by Senior Administration as indicated below and recommended for submission by the Chief Administrative Officer.

Prepared by:

Cheryl Curran, BES
Project Technician

Reviewed by:

Phil Bartnik, P.Eng.
Director Public Works & Environmental Services

Reviewed by:

Tom Kitsos, CPA, CMA, BComm
Director Financial Services & Chief Financial Officer

Recommended by:

Margaret Misek-Evans, MCIP, RPP
Chief Administrative Officer

Attachment Number	Attachment Name
1.	Water and Wastewater Master Plan Update, Preferred Water Servicing Strategy
2.	County of Essex CR 19 Improvements – CR 22 to Jamsyl Drive
3.	Proposed CR 19 Trunk Watermain Limits