

**To: Warden and Members of County Council**

**From: Director of Public Works**

## **Contract Award – Oxford Road 12 (Mill Street) Bridge Rehabilitation, Woodstock**

### **RECOMMENDATIONS**

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- 1. That County Council award a contract to the low bidder, Clearwater Structures Inc., in the amount of \$1,149,569 (excluding HST) for the rehabilitation of Bridge No. 12362 on Oxford Road 12 (Mill Street) in the City of Woodstock;**
- 2. And further, that County Council authorize the Chief Administrative Officer and Director of Public Works to sign all documents related hereto.**

### **REPORT HIGHLIGHTS**

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- The purpose of this report is to obtain County Council approval to award the above-noted project to Clearwater Structures Inc., in accordance with the County's Purchasing Policy.
- Oxford Road 12 (Mill Street) Bridge No. 12362 in Woodstock is planned for rehabilitation as per the 2023 Business Plan and Budget in order to extend the useful service life and reliability of this asset by approximately 30 years.
- Construction will be completed in three phases such that two lanes of traffic can be maintained throughout the life of the project. This project is anticipated to begin in July 2023 and is targeted for completion by November 2023.

### **Implementation Points**

Upon Council approval, a contract will be executed with the low bidder, Clearwater Structures Inc., prior to proceeding with the work.

Construction is designed to be completed in three stages, with traffic management required through the construction zone on Oxford Road 12 between Main Street and Park Row. Traffic conveyance will be maintained in two lanes on Oxford Road 12 during all stages of construction; one lane in both the north and south directions. The construction staging plans were developed in consultation with the City of Woodstock. It is anticipated that Woodstock Transit will detour the Route 7 bus from the project area for the duration of the work. Construction is anticipated to begin in July 2023 and be completed by November 2023.

## Financial Impact

This work was planned for in the 2023 *Business Plan and Budget*. While the low bid amount received is above the approved 2023 budget line item for this project, this project is funded from a joint account (930200) for all bridge/culvert rehabilitation projects.

Budget savings from the contract award for the rehabilitation of Bridge No. 174259 on Oxford Road 45, presented to Council for approval under Report No. PW 2023-13 at this same meeting, are proposed to be used to fund the additional costs required for this project in the amount of \$244,801. The construction costs and funding sources for this project are summarized in Table 1 below:

**Table 1: Funding Summary for Rehabilitation of Bridge No. 12362 on OR12**

<b>2023 Budget Summary Account / Description</b>	<b>Available 2023 Budget</b>	<b>Bid Amount (excluding HST)</b>
<b>930200 – Bridge/Culvert Construction</b> (Approved budget: \$6,330,000) (Less other projects: \$5,330,000)	\$1,000,000	\$1,149,569
<b>Estimated Contract Administration; Inspection &amp; Materials Testing</b>		<b>75,000</b>
<b>Non-Refundable HST (1.76%)</b>		<b>20,232</b>
<b>TOTAL ESTIMATED CONSTRUCTION EXPENDITURES</b>		<b>\$1,244,801</b>

## Communications

The communication strategy for this construction project will be similar to other County projects. The Contractor’s project manager and the County’s project manager will form an open channel of communication and will include other members of the project team as needed. These communications will commence upon approval of this report and will continue for the duration of the project.







Traffic staging and planned construction schedule have been and will continue to be mutually established with the City of Woodstock, and further communication is planned prior to, and throughout construction.

A Notice of Construction letter will be delivered to nearby property owners, along with posting of construction signage at the project location in advance to alert the general public. The Notice of Construction will also be posted to the Oxford County website.

No road closures are anticipated for this project, but should any be required for unanticipated reasons, regulatory authorities and emergency services will receive advanced notice of any road closures through *Municipal511* notifications circulated by Public Works. Road updates are also posted to the County’s social media channels and on *Speak Up, Oxford*. Additional advertising and media updates will be considered as required.

Staff will continue to work with affected stakeholders during the execution of this project as required to ensure the appropriate level of communication and outreach is maintained, and further ensuring all parties involved are updated on project status and outcomes as needed.

### Strategic Plan (2020-2022)

					
<b>WORKS WELL TOGETHER</b>	<b>WELL CONNECTED</b>	<b>SHAPES THE FUTURE</b>	<b>INFORMS &amp; ENGAGES</b>	<b>PERFORMS &amp; DELIVERS</b>	<b>POSITIVE IMPACT</b>
1.ii.	2.i.	3.ii. 3.iii.		5.ii.	

## DISCUSSION

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### Background

Bridge No. 12362 is a two-span, 15.6 m (51 ft) long, precast concrete, box-girder bridge originally constructed in 1978. The bridge is located on Oxford Road 12 (Mill Street), approximately 400 m south of Dundas Street, between Main Street and Park Row, in the City of Woodstock. A map identifying the bridge location is included as Attachment 1 to this report. This section of Oxford Road 12 crosses Cedar Creek and has three traffic lanes; one in both the north and south direction as well as a centre left-turning lane. Each side of the bridge also includes a 1.75 m sidewalk. In addition, there is a CN railway overpass located directly over the north approach of the structure.

A preliminary design report (PDR) was completed by the County's consultant (RJ Burnside and Associates) in May 2020. The County's draft 2022 *Bridge Inspection Report* noted Bridge No. 12362 had a bridge condition index (BCI) of 65.4 and included a recommendation for rehabilitation within one year. The PDR noted the preferred alternative for repair was bridge rehabilitation and the recommendations from this PDR were ultimately incorporated into the final design of the bridge rehabilitation.

As such, rehabilitation of Bridge No. 12362 generally includes the following scope of work:

- Milling of asphalt on the approaches;
- Removal of asphalt, concrete curb and sidewalk on deck top;
- Replacement of expansion joint system;
- Concrete repairs to the deck top, soffit, substructure, and girders;
- Waterproofing and paving the deck surface;
- Paving asphalt on the approaches;
- Installation of concrete curb and sidewalk;
- Installation of steel beam guide rail;
- Construction staging and traffic Maintenance;

- Erosion and sediment control measures;
- Installation of bird exclusion netting;
- Fish salvage and Licence to Collect;
- Construction dewatering; and
- Repairs to damaged toe wall's gabion stone baskets from erosion.

## Comments

Based on its current asset condition, Bridge No. 12362 is prioritized for rehabilitation in order to extend its useful service life by approximately 30 years as per the 2022 Asset Management Plan. If the bridge rehabilitation is not completed, the condition will continue to deteriorate to the point where the bridge is considered structurally deficient and/or unsafe to use. Failure to complete the structure rehabilitation will increase the risk of structure failure, load restrictions and/or road closure.

As this project has the possible risks that would be associated with any construction project of this scale and scope, the successful Contractor is also required to secure construction bonds and insurance to mitigate risks related to the exposure of financial loss.

County staff solicited bids from eligible Contractors and the project was tendered through a competitive bidding process. Twenty-six contractors showed interest in the project and County staff received the following four bids at Tender close on Thursday, February 9, 2023.

**Table 2: Summary of Bid Submissions**

<b>Contractor</b>	<b>Bid Amount (HST Excluded)</b>
<b>1. Clearwater Structures Inc.</b>	<b>\$1,149,569</b>
2. Sierra Bridge Inc.	\$1,251,192
3. Enscon Ltd.	\$1,292,365
4. Jarlian Construction Inc.	\$1,344,444

Staff have reviewed the submissions and confirmed that the low bid received from Clearwater Structures Inc., in the amount of \$1,149,569 (excluding HST), represents good value for the work. Clearwater Structures was also pre-qualified earlier this year for another bridge rehabilitation contract and Public Works staff have no concerns with awarding them the work.

Should the contract not be awarded and the work does not proceed, the condition of the County's asset will continue to deteriorate and the costs to rehabilitate in the future will rise.

## Conclusions

Review of the competitive bid submissions confirms that it is appropriate to award the proposed bridge rehabilitation works on Bridge No. 12362 to the low bidder, Clearwater Structures Inc.

## SIGNATURES

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### Report Author:

Original signed by

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Ryan Vink, P. Eng.  
Project Engineer

### Departmental Approval:

Original signed by

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David Simpson, P. Eng., PMP  
Director of Public Works

### Approved for submission:

Original signed by

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Benjamin R. Addley  
Interim Chief Administrative Officer

## ATTACHMENT

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Attachment 1 – Key Map, February 2023