



## Corporation of the Township of Brock

### Staff Report to the Mayor and Members of Council

**From: Paul Lagrandeur**

**Position: Director of Public Works**

**Title / Subject: Blackwater Bridge Rehabilitation**

**Date of Report: July 19, 2022**

**Date of Meeting: July 25, 2022**

**Report No: 2022-CO-020**

---

#### 1.0 Issue / Origin

At the request of council, staff have asked Chisholm, Fleming and Associates (CFA) to submit a proposal for the design for the rehabilitation of the Blackwater Bridge.

#### 2.0 Background

The Blackwater Bridge is on Concession 4 (B), 0.45 km East of Blackwater Road. The bridge is 11.32m single-span bridge with a fibreglass wrapped timber deck and an asphalt wearing surface. The fibreglass encasement of one of the deck panels was damaged prior to paving of the deck and the untreated timber deck within the fibreglass has been exposed to moisture. CFA completed an independent review of the bridge construction in 2017 and prepared a report recommending the timing and type of structural repairs that should be made to the bridge, since there are no other companies that construct this type of bridge. CFA's report dated March of 2021 recommended replacement of the deck with precast hollow slabs and a concrete topping.

In CFA's costs they have included the services of LGL Limited to assist with the natural resources investigations and studies that will be required by LSRCA. They have retained the services of SOLA Engineering to complete a review of the existing foundations and the bearing capacity of the soils to determine if any additional support will be required for the abutments. Also included will be a provisional cost to design abutment underpinnings should the geotechnical engineer recommend it.

#### 3.0 Analysis

#### 4.0 Related Policies / Procedures

## **5.0 Financial / Budget Assessment**

Chisholm, Fleming and Associates total fee for rehabilitation of the Blackwater Bridge is \$68,740 excluding HST, and inclusive of disbursement costs. This amount was not anticipated in the budget and will be funded from the Roads and Bridges Capital Reserve Fund.

## **6.0 Climate Change Impacts**

## **7.0 Communications**

## **8.0 Conclusion**

On the basis of the foregoing review, staff recommend moving forward with Chisholm, Fleming and Associates proposal for Blackwater Bridge Rehabilitation, as CFA is most familiar with this structure and repair needs.

## **9.0 Recommendation**

On the basis of the foregoing review, it is recommended:

THAT staff report 2022-CO-020, Blackwater Bridge Rehabilitation be received;

THAT staff be authorized to proceed with Chisholm, Fleming and Associates' design proposal for the Rehabilitation of Blackwater Bridge in the amount of \$68,740.00 or \$70,000 including the non-recoverable HST impact.

THAT a capital project be established in the amount of \$70,000, to be funded from the Roads and Bridges Capital Reserve Fund.