

APRIL 9, 2025

COMMITTEE OF THE WHOLE

REPORT NO. CW-023-2025

LYN CREEK BRIDGE REPLACEMENT - ENGINEERING SERVICES CONTRACT CHANGE ORDER

**ADEM ADEBAYO, MANAGER
ENGINEERING AND OPERATIONS
PUBLIC WORKS**

RECOMMENDATIONS

THAT the Committee of the Whole recommends that Council approve Change Order No. 1 for Contract No. PW-2023-31 – Lyn Creek Bridge Replacement Engineering Services to Ainley Graham & Associates Limited in the amount of \$87,635.63 (excluding taxes); and

THAT the necessary by-law be prepared.

FINANCIAL IMPLICATIONS

The original contract value for the Lyn Creek Bridge Replacement Engineering Services was \$125,885.00, excluding taxes. The additional work identified in Change Order No. 1 will increase the contract value by \$87,635.63, which includes a 5% disbursement but excludes HST. Funding for the change order will be sourced from the approved 2025 capital budget for the Lyn Creek Bridge Replacement project, which has a total allocation of \$350,000. This budget includes provisions for additional engineering work and utility relocation.

CLIMATE CHANGE IMPLICATIONS

The additional design efforts will enhance the project's resilience to climate change by addressing flood risks and ensuring the long-term stability of the bridge and surrounding infrastructure. Hydraulic modeling and shoreline protection measures will mitigate the impact of increased water levels and severe weather events.

ACCESSIBILITY CONSIDERATIONS

The project includes enhancements to pedestrian pathways and modern safety features like steel beam guide rails to improve accessibility. The expanded scope, including retaining wall replacement and shoreline protection, is essential to ensuring these accessibility features are integrated effectively and remain structurally sound.

COMMUNICATIONS CONSIDERATIONS

The Counties will continue to engage with the public and stakeholders through the Municipal Class Environmental Assessment process. A public consultation meeting is tentatively scheduled for May to gather feedback from the community.

BACKGROUND

The Lyn Creek Bridge, situated on County Road 27, approximately 0.1 km west of Perth Street in Lyn, Elizabethtown-Kitley, was constructed in 1920 and requires replacement due to significant structural deficiencies identified in the 2017 Detailed Bridge Deck Condition Survey and subsequent inspections.

Contract No. PW-2023-31 for engineering services was awarded to Ainley Graham & Associates Limited in January 2024 following a competitive RFP process in the amount of \$125,885.00, excluding taxes.

During the early design stage, the consultant identified additional areas requiring engineering studies and design to accommodate their replacement/rehabilitation into the overall contract package. These areas include:

- Replacement of the deteriorated masonry wall running west-east and tying into the northwest corner of the existing bridge.
- Replacement of the deteriorated concrete weir tying into the southwest corner of the existing bridge.
- Significant relocation of utilities in the vicinity of the bridge replacement.

Counties' staff have reviewed the consultant's request and determined that the additional work is necessary for the successful completion of the project.

DISCUSSION/ALTERNATIVES

The proposed change order is essential to incorporate the additional engineering services required for the Lyn Creek Bridge Replacement project. Approving the change order will ensure that the project proceeds with a comprehensive design that accounts for all structural interdependencies and site conditions.

Failure to address these issues properly could result in:

- Structural instability of adjacent buildings.
- Damage to the retaining wall and weir, which could result in erosion and further destabilization.
- Increased risk of flooding and environmental damage due to inadequate shoreline protection.
- Unforeseen utility disruptions and increased project costs during construction.

The alternative to approving the change order would be to proceed with the project without addressing the additional work. This option is not recommended, as it carries significant risks, including compromised project success, increased long-term costs, and potential safety hazards.

ATTACHMENTS

- Attachment No. 1: Change Order Request No. 1 – Lyn Creek Bridge Replacement (Ainley Graham & Associates Limited)
- Attachment No. 2: Photographs of the Lyn Creek Bridge and surrounding structures.

The report set out above has been reviewed and the information verified by the individuals listed below.

ADEM ADEBAYO
MANAGER, ENGINEERING AND OPERATIONS

MARCH 20, 2025
DATE

BILL GUY
INTERIM DIRECTOR, PUBLIC WORKS

MARCH 20, 2025
DATE

PAT HUFFMAN
TREASURER

MARCH 28, 2025
DATE

ALISON TUTAK
INTERIM CHIEF ADMINISTRATIVE OFFICER

APRIL 1, 2025
DATE