

To: Development Services Committee

From: Warren Munro, HBA, RPP, Commissioner,
Development Services Department

Report Number: DS-22-07

Date of Report: January 5, 2022

Date of Meeting: January 10, 2022

Subject: Additional Funding for the Roundabout Design at Conlin Road
East and Grandview Street North

Ward: Ward 1

File: 03-05

1.0 Purpose

On September 20, 2021 the Finance Committee considered FIN-21-86, Conlin Road East at Grandview Street North – Roundabout Design, requesting additional funding for the increase in scope to perform additional design work from the eastern terminus of the original project east to Kurelo Drive and adopted the following motion:

“That Report FIN-21-86 concerning Conlin Road East at Grandview Street North – Roundabout Design dated September 15, 2021 be referred to Development Services staff to get a full comprehensive report on cost.”

The purpose of this Report is to:

1. Respond to the September 20, 2021 direction of the Finance Committee;
2. Provide a full comprehensive report on costs associated with FIN-21-86; and,
3. Request additional funding as per FIN-21-86 for the increase in scope to perform additional design work east to Kurelo Drive to address safety issues related to the road profile and pedestrian access along Conlin Road East, east of Grandview Street North.

Attachment 1 illustrates the limits of the roundabout detailed design for the intersection of Conlin Road East at Grandview Street North.

2.0 Recommendation

That the Development Services Committee recommend to City Council:

That, pursuant to Report DS-22-07 dated January 5, 2022, that Council approve the additional funding of \$60,000 plus H.S.T. to CIMA+ Canada Inc. to expand the design scope and limits to address road intersection safety issues and pedestrian access along Conlin Road East, east of Grandview Street North to Kurelo Drive.

3.0 Executive Summary

Not Applicable.

4.0 Input From Other Sources

The following have been consulted in the preparation of this Report:

- Commissioner, Finance Services

5.0 Analysis

5.1 Background

In 2015, Council approved the Integrated Transportation Master Plan and the Active Transportation Master Plan which recommended a multi-use path along Conlin Road East from Simcoe Street North to Townline Road North.

In 2015, Council approved funding for Project 7017-2-6 in the amount of \$75,000 for the detailed design of a roundabout at the intersection of Conlin Road East and Grandview Street North. Owing to lack of resources and the need to coordinate the schedule with the Region of Durham, this project was delayed.

In 2016, a Municipal Class Environmental Assessment (M.C.E.A.) was completed for the improvements to Conlin Road East from east of Simcoe Street North to west of Townline Road North.

The M.C.E.A. recommended a roundabout at Grandview Street North and confirmed the need for the multi-use path along this portion of the study area and recommended it to be located along the south side of Conlin Road East.

On January 19, 2018 Council approved Project 73-0450 in the amount of \$50,000 to supplement the 2015 approved funding for capital project 7017-2-6 increasing the total funding envelope to \$125,000.

In 2018, Request for Proposal C2018-074, Conlin Road Roundabout Design was awarded to CIMA+ Canada Inc. in the amount of \$121,032 exclusive of H.S.T. in accordance with Report CNCL-18-51 and the Purchasing By-law.

The original limits of the roundabout project (see Attachment 1) extend approximately 250 metres (820 ft.) east and west of Grandview Street North and 250 metres (820 ft.) north and south of Conlin Road East. The detailed design of the roundabout includes the provision for a multi-use path along the south side and a sidewalk along the north side of Conlin Road East. Along Grandview Street North, on-road bike lanes and sidewalks will be provided along both sides.

On July 13, 2020, an additional \$40,000 was approved by Council in accordance with CNCL-20-155 to fund out of scope subsurface utility investigations, additional surveys, placing of ads in local newspapers for public consultation, and additional engineering consulting services to delineate and obtain information on the extent and depths of impacted soil that was found in the geotechnical investigation undertaken by CIMA+ Canada Inc. This increased the total funding envelope to \$165,000.

The construction of the roundabout is currently proposed in the capital projects forecast for 2024 and would be subject to Council approval.

5.2 Considerations

In the process of finalizing the detailed design of the roundabout, CIMA+ Canada Inc. has also identified the following concerns and recommends that the scope and the limits of the project be extended to Kurelo Drive (see Attachment 1).

5.2.1 Road Intersection Safety

The recent detailed engineering submissions submitted in support of the development applications along the north side of Conlin Road East have now identified road intersection concerns due to the steep grade that exists along Conlin Road East from Grandview Street North to Kurelo Drive. These concerns were only recently identified through this detailed review of subdivisions in this portion of Kedron.

As greater than 50% of all collisions in urban areas occur at intersections, it is critical to ensure that designs are undertaken to applicable engineering standards. Grades approaching an intersection are desirably 3 to 5% maximum, in order to allow vehicles to decelerate or accelerate to expected speeds and to minimize the potential for collisions. The existing grades at the Conlin Road East and Grandview Street North intersection are 5 to 7%.

5.2.2 Construction Challenges

As noted in Section 5.2.1, a 5 to 7% grading is less desirable from an engineering perspective. In addition, it would also result in significant additional construction costs, as the “transition” grade would need to be removed in the future in any event since Conlin Road East needs to be lowered to its ultimate road grade.

Furthermore, the significant road excavations required to flatten the existing vertical curve will likely require the full closure of Conlin Road East to complete safely and efficiently. If the entire vertical curve along Conlin Road East, east of Grandview Street North, is

reconstructed in one contract, this may minimize the disruption to road users from two construction seasons to one.

5.2.3 Land Development Opportunities

The construction of the Conlin Road East and Grandview Street North intersection to its ultimate form will permit development along the north side of Conlin Road East to occur as quickly as possible without requiring the need to potentially freeze/hold parcels of the land.

It was originally contemplated that these concerns would be resolved through Project 73-0485, the detailed design for the reconstruction of Conlin Road East from Ritson Road North to Townline Road North. Project 73-0485 was approved in the 2020 Capital Budget and is expected to be tendered by the end of the first Quarter of 2022.

The design work for this project will be completed in its entirety and will include a multi-use path along the south side and a sidewalk along the north side.

5.3 Rationale for Support

It is appropriate to expand the design scope to extend the project a further 250 metres (820 ft.) to the east for the following key reasons:

- Expanding the scope will improve vehicular and pedestrian safety in both the short term and long term by reducing the grades for vehicular traffic and introducing a multi-use path for pedestrians;
- Expanding the scope will provide a multi-use path connection from Grandview Street North to Kurelo Drive and provide safe access to Mackie Park from either street;
- Expanding the scope will allow safe pedestrian access to transit and transit stops through the addition of the multi-use path and sidewalk;
- Expanding the scope will result in savings to the City as CIMA+ has familiarity with the project;
- Expanding the scope may limit the disruption to the surrounding community to one construction season; and,
- Expanding the scope will facilitate development in the Kedron Part II Plan.

As such, it is recommended that the existing scope of work be expanded 250 metres (820 ft.) further east along Conlin Road East to Kurelo Drive at an estimated cost of \$60,000 excluding H.S.T.

6.0 Financial Implications

The cost for the additional work required to address the site access and safety issues along Conlin Road East, east of Grandview Street North is estimated at \$60,000 plus H.S.T.

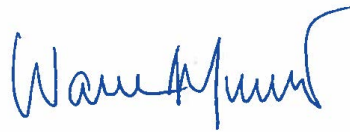
Finance Services has confirmed that the additional cost of \$60,000 can be funded from the Transportation D.C. and Growth Related Non-DC Reserves.

7.0 Relationship to the Oshawa Strategic Plan

This Report meets the Accountable Leadership, Social Equity and Economic Prosperity and Financial Stewardship goals of the Oshawa Strategic Plan.



Anthony Ambra, P.Eng., Director,
Engineering Services




Warren Munro, HBA, RPP, Commissioner,
Development Services Department

Subject: Additional Funding for the Roundabout Design at
Conlin Road East and Grandview Street North

Ward: Ward 1

File: 03-05

Expanded Scope 
Original Scope 