



Administrative Report

Office of the Director, Infrastructure & Planning Services

To: Warden MacDonald and Members of Essex County Council

From: Allan Botham, P.Eng.
Director, Infrastructure & Planning Services

Date: Wednesday, June 19, 2024

Subject: Traffic Control at the Intersection of County Roads 9 and 10

Report #: 2024-0619-IPS-R10-AB

Purpose

The purpose of this report is to provide County Council with details and progress updates regarding the installation of segments of a traffic signal system, aligning with County Council's directive to conduct a traffic study at the intersection of County Road 9 and County Road 10, alongside the reconstruction of the bridge over the River Canard at the same intersection.

Background

At the June 21, 2023 meeting, County Council approved the reconstruction of the bridge over the River Canard, situated at the intersection of County Road 9 and County Road 10.

At the September 20, 2023 meeting, County Council directed Administration to conduct a traffic study at the subject intersection for the purpose of improved traffic control.

Progress on the construction project has been very good and all indications are that the construction will be completed on time.

Discussion

Preliminary discussion and analysis by the Infrastructure & Planning Services department, regarding traffic at the subject intersection suggest that conditions will satisfy traffic signal warrants in the very near future. To avoid delays in construction of the bridge, a consultant with expertise in

traffic signal design was engaged to complete a signal design and layout, based on known and predicted traffic information.

Given the signal design, and the size and layout of the bridge structure (please refer to Figure 1), much of the system must be built into or attached on the structure. The bridge contractor working at site was asked to construct a number of items into the new bridge structure. Throughout the process, the Contractor worked with the County, and our engineers, making suggestions and modifications to accommodate a signal and maintain the original bridge construction schedule.

As we move to the final phases of construction there are additional components to construct. Additional works such as: controller pads, hand holes, conduit, pole bases, and ground rods. In this circumstance, where the bridge structure covers most of the area of the intersection, this work is ideally suited to a bridge contractor rather than a traffic signal contractor.



Figure 1

The estimated cost of added traffic signal infrastructure works, in preparation to install the above ground traffic signal system, is \$376,000. Administration has reviewed the cost of the works and recommends that the costs are reasonable in these circumstances.

Administration is recommending installation of a traffic signal and will bring forward an item to construct the above ground components of a traffic signal system in the 2025 budget for Council's consideration.

Financial Implications

A significant portion of the traffic signal system needed to be integrated into the bridge structure itself and was carried out concurrently with the bridge construction ongoing. The anticipated cost in 2024 amounts to \$376,000. While these expenses were not initially accounted for in the project's budget, they will be accommodated within the broader 2024 Rehabilitation Budget with no need for any additional funds.

There will be additional traffic signal system costs incurred in 2025. Detailed cost estimates for these integration works will be provided by Administration and presented to Council during the 2025 Budget deliberations.

Consultations

Melissa Ryan, Director, Financial Services/Treasurer

Strategic Plan Alignment

Working as Team Essex County	Growing as Leaders in Public Service Excellence	Building a Regional Powerhouse
<ul style="list-style-type: none"> <input type="checkbox"/> Scaling Sustainable Services through Innovation <input type="checkbox"/> Focusing "Team Essex County" for Results <input type="checkbox"/> Advocating for Essex County's Fair Share 	<ul style="list-style-type: none"> <input type="checkbox"/> Being an Employer with Impact <input checked="" type="checkbox"/> A Government Working for the People <input checked="" type="checkbox"/> Promoting Transparency and Awareness 	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Providing Reliable Infrastructure for Partners <input checked="" type="checkbox"/> Supporting Dynamic and Thriving Communities Across the County <input type="checkbox"/> Harmonizing Action for Growth <input type="checkbox"/> Advancing Truth and Reconciliation

Recommendation

That Essex County Council receive report 2024-0619-IPS-R10-AB, Traffic Control at the Intersection of County Roads 9 and 10, as information.

Approvals

Respectfully Submitted,

Allan Botham

Allan Botham, P.Eng., Director, Infrastructure and Planning Services

Concurred With,

Sandra Zwiers

Sandra Zwiers, MAcc, CPA, CA, Chief Administrative Officer

Appendix	Title
N/A	N/A