

Report TR-TAPS-15-16

To: Chair Bell and Members of the Transportation and Public Safety Committee
From: M.J. Kelly, Director of Transportation Services
Meeting Date: February 18, 2016
Subject: Grey Road 119 Redesign
Status: Recommendation adopted by Committee as presented per Resolution TAPS33-16; Endorsed by County Council March 1, 2016 per Resolution CC37-16;

Recommendation(s)

WHEREAS staff was directed to develop options and costing for the rehabilitation of Grey Road 119 from 4th line (Banks) to Grey Road 2 (Ravenna), with various paved shoulder widths greater than 0.25 metres;

AND WHEREAS there is insufficient information available to complete the detail design and accurate costs;

NOW THEREFORE BE IT RESOLVED THAT Report TR-TAPS-15-16 regarding options for the rehabilitation of Grey Road 119, between 4th Line and Grey Road 2 be received;

AND THAT the Grey Road 119 rehabilitation project from 4th line to Grey Road 2 be deferred until 2017;

AND THAT \$150,000 of the 2016 budget funding be utilized for Grey Road 119 road maintenance.

Background

At the October 22, 2015 Transportation and Public Safety Committee meeting, direction was provided to the Transportation Services Department to reconstruct Grey Road 119 from 4th Line (Banks) to Grey Road 2 (Ravenna) with 3.25 metre wide lanes and 0.25 metre paved shoulders.

At the January 21, 2016 Transportation and Public Safety Committee meeting, direction was provided to the Transportation Services staff to complete design and cost estimates to provide wider paved shoulder options on Grey Road 119.

Facts Regarding Grey Road 119

- Daily Traffic Volume is 400
- Daily Truck Traffic is 12, which is 3% of traffic
- Vertical Alignment is rolling
- Steep grades up to 13%
- Several vertical curves do not meet standard
- Posted Speed Limit 80 kilometres per hour

Considering the vertical alignment it is recommended that staff complete a speed limit analysis on this section of Grey Road 119.

The slope of the cross-fall is varies from five to ten percent with an estimated average of eight percent.

The surface treated road includes potholing and edge deterioration.

Reconstruction Options

Since the January 21, 2016 Transportation and Public Safety Committee meeting staff have developed and estimated many design options to provide wider paved shoulders on Grey Road 119. All the options developed had engineering concerns that could impact the longevity of the road.

Eight boreholes were undertaken within the limits of the project. The boreholes identified 0.6 to 1.2 metres of granular material beneath the road surface. Granular testing verified that the granular material was poor quality.

In accordance with the Grey County Pavement Structure Design Guideline a Grey Road with less than 500 vehicles per day should have a structure that includes 300 mm of Granular B, 150mm of Granular A and 50mm of hot mix.

Staff requires additional time and information to complete a design and tender package to ensure that the integrity of the road will last for at least the projected life cycle of 18 years.

It is recommended to defer this project until 2017 to permit time to complete a well thought out and effective design. In light of the advanced deterioration the road surface it is anticipated that \$150,000 will be required to maintain the road until it is rehabilitated. It is more cost effective to spend this money on rehabilitation than to proceed with full construction when there are many unknowns.

Financial / Staffing / Legal / Information Technology Considerations

By deferring this project, a complete and accurate design and tender can be completed that will ensure the proper longevity of the road.

By deferring this project it is anticipated that approximately \$150,000 of maintenance funding will be needed to maintain the road to meet the minimum maintenance standards.

Link to Strategic Goals / Priorities

The County of Grey Corporate Strategic Plan lists Fiscal Responsibility; to use resources wisely and invest responsibly in the future as one of the five core values of the Corporation of the County of Grey.

Attachments

None.

Respectfully submitted by,

M.J. Kelly
Director of Transportation Services