
TO: GENERAL COMMITTEE

SUBJECT: INVESTIGATION – INSTALLATION OF STREET LIGHTING ON HURONIA ROAD

WARD: 8

PREPARED BY AND KEY CONTACT: M. CHARLEBOIS, C.E.T.
SENIOR TRANSPORTATION TECHNOLOGIST (EXT. 5178)

SUBMITTED BY: D. FRIARY, DIRECTOR OF ROADS, PARKS AND FLEET

GENERAL MANAGER APPROVAL: A. BOURRIE, RPP
ACTING GENERAL MANAGER OF INFRASTRUCTURE AND GROWTH MANAGEMENT

CHIEF ADMINISTRATIVE OFFICER APPROVAL: M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RECOMMENDED MOTION

1. That roadway illumination be installed on Huronia Road from Saunders Road to approximately 745 Huronia Road subject to budget approval in the 2020 Capital Plan.

PURPOSE & BACKGROUND

2. Staff in the Roads, Parks and Fleet Department received direction from Council to investigate the feasibility and costs associated with installing High Pressure Sodium (HPS) Street Lights (approximately 6 units) along the existing utility poles on the east side of Huronia Road between Saunders Road and approximately 745 Huronia Road.
3. Huronia Road is a two (2) lane arterial roadway that has a pavement width of 8.5 metres, no sidewalks and has a daily traffic volume of approximately 5,800 vehicles per day. Please refer to Appendix 'A'.
4. Currently roadway illumination is located at the approaches and intersections of Huronia Road and Saunders Road as well as Huronia Road and Lockhart Road on existing hydro poles.

ANALYSIS

5. Historically roadway illumination at rural and industrial locations were installed primarily at intersections and their approaches. Staff periodically receive requests to install additional roadway illumination in areas with limited illumination. These roadways are included on Staff's "Infill Streetlight Request" form and reviewed based on available funding and priority.
6. At this time there is no capital reconstruction scheduled for Huronia Road from Saunders Road to Lockhart Road for at least ten (10) years.
7. With a recent update to the hydro authority (Alectra Utilities) regulations, a structural analysis along with engineering design, service layout and other required documents would be required as part of the approval process in order for Alectra Utilities to review and consider our street lighting attachments onto their poles.

8. To ensure adequate lighting levels are achieved, a photometric analysis would be required to adhere to the current City of Barrie Roadway Illumination Policies and Design Guidelines.
9. As per section 4.6.1 – Conversion to Light Emitting Diode (LED) Roadway Illumination of the City of Barrie Roadway Illumination Policies and Design Guidelines and the City's recent Streetlight Conversion to LED (contract FIN2016-121Q), High Pressure Sodium (HPS) technology has been replaced with energy efficient LED streetlights and shall be considered as the preferred alternative.
10. Based on resident and Councillor requests, added development and increased pedestrian activity to local transit stops, staff recommend roadway illumination on Huronia Road between Saunders Road and approximately 745 Huronia Road be included in the 2020 budgeted Capital Plan.
11. Barrie Police Service, Barrie Fire and Emergency Service and Municipal Law Enforcement staff do not oppose the recommended motion.

ENVIRONMENTAL MATTERS

12. There are no environmental matters related to the recommendation.

ALTERNATIVES

13. There are two (2) alternatives available for consideration by General Committee:

Alternative 1 General Committee could decide to maintain the illumination on Huronia Road from Saunders Road to approximately 745 Huronia Road as is until the urbanization of Huronia Road occurs.

This alternative is not recommended as the residents and Ward Councillor cited safety concerns due to the lack of illumination.

Alternative 2 General Committee could decide to reduce the scope of infill illumination on Huronia Road from Saunders Road to approximately 745 Huronia Road to minimize the cost of the project.

This alternative is not recommended as it could create sub-standard lighting levels that may not meet today's design requirements.

FINANCIAL

14. The cost to infill additional roadway illumination on Huronia Road from Saunders Road to approximately 745 Huronia Road would be approximately \$45,000, which has not been accommodated for in the 2019 Business Plan.

LINKAGE TO 2014-2018 STRATEGIC PLAN

15. The recommendation included in this Staff Report is specifically related to City Council's Strategic Priorities under "Well Planned Transportation" by improving the road network and improving road safety as well as "Inclusive Community" by supporting diverse and safe neighbourhoods.

APPENDIX "A"



DATE: Oct 2018
SCALE: NTS

LEGEND:
● Existing Street Light
X Proposed Street Light

Huronia Road Proposed
Street Light Infill Project

