Date: February 12, 2019

To: Chair and Members
   Committee of the Whole – Operations and Administration

From: E. (Beth) Goodger, General Manager
   Public Works Commission

1.0 Type of Report

   Consent Item [ ]
   Item For Consideration [X]

2.0 Topic

   Traffic Report: Shellard Lane at Anderson Road – Traffic Control Signal [Financial Impact – $6,000 to the Operational Services 2020 Operating Budget]

3.0 Recommendation

   A. THAT a Traffic Control Signal BE BY-LAWED at the intersection of Shellard Lane and Anderson Road; and


   C. THAT Operational Services be DIRECTED to add $6,000 to their 2020 operating budget for operating costs of the additional traffic signal.

4.0 Purpose and Overview

   To by-law the traffic control signals that have been installed at the intersection of Shellard Lane at Anderson Road. The traffic control signal was installed in the fall of 2018 as part of the Phase 2 Shellard Lane Widening and Reconstruction
Project that was completed in November 2018. The signal will officially go into operation upon Council approval of Report PW2019-44.

5.0 Background

The March 2013 Shellard Lane Environmental Assessment report traffic analysis established the type of traffic control required with the improvements recommended for Shellard Lane. Through this analysis, the intersection of Shellard Lane at Anderson Road was determined to require traffic control signals. The signals were installed as part of the Phase 2 Shellard Lane Widening and Reconstruction project.

6.0 Corporate Policy Context

The following long term desired outcome from the Strategic Plan is addressed with the recommendation:

- Brantford will be supported by well-developed and maintained transportation and servicing infrastructure.

7.0 Input From Other Sources

The City’s Operational Services has been consulted for this report to provide input on the annual costs for maintaining an additional traffic signal.

8.0 Analysis

The purpose of this Report is to by-law a new traffic control signal at the intersection of Shellard Lane and Anderson Road as shown in Figure 1. Traffic control signals have been installed at this location as part of Phase 2 of the Shellard Lane Widening and Reconstruction project. The signal includes pedestrian countdown timers and accessible pushbuttons.
The signal was energized in December of 2018 and is being monitored for any potential issues. Upon approval of Report PW2019-44, the intersection will be officially operational and legally enforceable.

9.0 **Financial Implications**

Installation costs were included in the Phase 2 of the Shellard Lane Widening and Reconstruction project. It is estimated that the replacement of the traffic signal will be required in 15-20 years at a cost of $100,000 in 2019 dollars.

The typical annual maintenance cost for similar intersections in the City is $5,600 including Preventative Maintenance Inspections (PMI) and equipment testing. The annual electrical costs for the signals and control equipment is estimated at $400. The traffic signal will be under warranty in 2019 and there
will be no costs to the City for repairs during this first year of operation. Beginning in 2020, the annual cost will be added to the Operational Services’ operating budget.

The annual communications costs for this intersection are estimated at $240, which has been identified in the 2019 operating budget for Transportation Services.

10.0 Conclusion

The traffic control signal at the intersection of Shellard Lane at Anderson Road will provide appropriate traffic control for access onto Shellard Lane. The signal will go into operation upon Council approval of Report PW2019-44.

Attachments

Appendix A – By-law Amendment – Shellard Lane at Anderson Road – Traffic Control Signal

In adopting this report, is a by-law or agreement required? If so, it should be referenced in the recommendation section.

<table>
<thead>
<tr>
<th>By-law required</th>
<th>[X] yes</th>
<th>[ ] no</th>
</tr>
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<tbody>
<tr>
<td>Agreement(s) or other documents to be signed by Mayor and/or City Clerk</td>
<td>[ ] yes</td>
<td>[X] no</td>
</tr>
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<td>Is the necessary by-law or agreement being sent concurrently to Council?</td>
<td>[X] yes</td>
<td>[ ] no</td>
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Appendix “A” – By-law Amendment – Shellard Lane at Anderson Road – Traffic Control Signal

RECOMMEND that Schedule “3” of Traffic Bylaw 37-83 which pertains to “Traffic Control Signals” BE AMMENDED to provide the following:

**Table 1 Proposed by-law amendment**

<table>
<thead>
<tr>
<th>INTERSECTION LOCATION</th>
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<tbody>
<tr>
<td>Shellard Lane at Anderson Road</td>
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