

Date: May 20, 2020

To: Mayor and Members of Council

From: Geoff Wright, P.Eng, MBA, Commissioner of
Transportation and Works

Originator's files:
MG.23.REP

Meeting date:
July 22, 2020

Subject

2020 Traffic Signal Installation and Modernization Program

Recommendation

That the 2020 Traffic Signal Installation and Modernization Program as outlined in the report from the Commissioner of Transportation and Works, dated May 20, 2020 and entitled "2020 Traffic Signal Installation and Modernization Program", be approved.

Background

The annual Capital Budget provides for the installation and modernization of Traffic Control Signals throughout the City. Typically, intersections are signalized upon realization of technical warrants, or in response to anticipated development. Existing Traffic Control Signals are modernized when the age of the equipment and infrastructure, as well as anticipated increased maintenance costs indicate that upgrades and/or replacements are required. All new and modernized Traffic Control Signals are designed to the Accessibility for Ontarians with Disabilities Act (AODA) standard.

Comments

The need for the installation of a new traffic control signal is indicated when signal warrant criteria are satisfied, when traffic conditions have changed significantly rendering the existing form of traffic control inefficient and/or when imminent adjacent development indicates that signalization will be required.

The recommended new traffic control signal installation locations for 2020 under these criteria are listed below and illustrated in the attached appendices:

- Bloor Street at Rymal Road – Ward 3 (refer to Appendix 1)
- Courtneypark Drive West and Madill Boulevard - Ward 5 (refer to Appendix 2)
- 2840 Battleford Road (Mid-block) - Ward 9 (refer to Appendix 3)

- 6880 Financial Drive (Mid-block) - Ward 11 (refer to Appendix 4)

The recommended traffic control signal modernization locations for 2020 are listed below and illustrated in the attached appendices:

- Tomken Road and Flagship Drive - Ward 3 (refer to Appendix 5)
- Morningstar Drive and Darcel Avenue - Ward 5 (refer to Appendix 6)

Financial Impact

As per the 2020 capital budget, PN 20198 has an approved net budget of \$900,000 for the installation of new traffic control signals and PN 20177 has an approved net budget of \$390,000 for the modernization of existing traffic control signals.

The estimated installation cost for a new traffic control signal is approximately \$185,000 and the estimated cost for the modernization of an existing traffic control signal is approximately \$195,000. It is recommended that four new traffic control signals be installed at a total cost of \$740,000, which can be accommodated for under PN 20198 and the two existing traffic control signals be modernized for a total cost of \$390,000 which can be accommodated for under PN 20177.

Any residual surplus funds from the new traffic control signals budget amount will be allocated to any related modifications to existing traffic signals as well as certain approved Road Safety initiatives i.e. “40 km/hr when flashing” in school zones on major collector and arterial roads.

Conclusion

As part of the 2020 Traffic Signal Installation and Modernization Program, staff recommends the installation of four new traffic control signals for a total capital cost of \$740,000 and the modernization of two existing traffic control signals for a cost of \$390,000. Sufficient Capital Budget exists for the installation of these traffic control signals.

Attachments

- Appendix 1: Proposed New Traffic Control Signal - Bloor Street and Rymal Road (Ward 3)
- Appendix 2: Proposed New Traffic Control Signal - Courtnepark Drive West and Madill Boulevard (Ward5)
- Appendix 3: Proposed New Traffic Control Signal - 2840 Battleford Road (Mid-block) (Ward 9)
- Appendix 4: Proposed New Traffic Control Signal - 6880 Financial Drive (Mid-block) (Ward 11)

Appendix 5: Proposed Traffic Control Signal Modernization - Tomken Road and Flagship Drive (Ward 3)

Appendix 6: Proposed Traffic Control Signal Modernization - Morningstar Drive and Darcel Avenue Ward 5)



Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

Prepared by: Darek Koziol, Traffic Signals Contract Coordinator