

Item:



Committee of the Whole Report

DATE: Tuesday, June 05, 2018

WARD(S): 1

**TITLE: ALL-WAY STOP CONTROL REVIEW
BARONS STREET AND SECORD AVENUE / DANBY STREET**

FROM:

Stephen Collins, Deputy City Manager, Public Works

ACTION: DECISION

Purpose

This report seeks Council approval to implement an all-way stop control at the intersection of Barons Street and Secord Avenue / Danby Street to improve the flow of traffic.

Recommendations

1. That Council approve the implementation of an all-way stop control at the intersection of Barons Street and Secord Avenue / Danby Street;
2. That a By-law be enacted to amend By-law 284-94, the Consolidated Traffic By-law, to add an all-way stop control at the intersection of Barons Street and Secord Avenue / Danby Street; and
3. That the City Clerk forward a copy of this report to the York Regional Police and the York Region Catholic District School board.

Report Highlights

- Staff have received requests from residents to review the overall traffic operations and safety of the Barons Street and Secord Avenue / Danby Street intersection.
- A traffic study was undertaken and the existing traffic volumes at the subject intersection exceed the Provincial Warrant for All-way Stop Controls.
- All-way Stop Controls would benefit both vehicular and pedestrian movements in the area.
- It is recommended that an all-way stop control be implemented at the intersection of Barons Street and Secord Avenue / Danby Street.

Background

A review of traffic activity was conducted at the intersection of Barons Street and Secord Avenue / Danby Street on May 3, 2018, to determine the feasibility of implementing an all-way stop control.

Residents have raised concerns over traffic safety on Baron Street and have requested a review of the intersection of Barons Street and Secord Avenue / Danby Street to determine the feasibility of implementing an All-way stop control.

Previous Reports/Authority

Not Applicable

Analysis and Options

Barons Street is a two-lane, north-south minor collector roadway with a 23.0 metre right-of-way and an 11.5 metre pavement width. Secord Avenue and Danby Street are two-lane, east-west local roadways with a 20.0 metre right-of-way and an 8.0 metre pavement width.

The intersection of Barons Street and Secord Avenue / Danby Street is a “four-leg” intersection with stop-controls on the Secord Avenue and Danby Street approaches. A map of the area is shown in Attachment No. 1.

The existing traffic volumes at the intersection of Barons Street and Secord Avenue / Danby Street exceed the Provincial Warrant for All-way Stop Controls.

A turning movement count was conducted on May 3, 2018, at the intersection of Barons Street and Secord Avenue / Danby Street. The study was conducted during the peak traffic periods of 7:00 a.m. to 9:00 a.m. and 3:00 p.m. to 6:00 p.m.

The collision records and sightlines at the approaches to the intersection were also assessed. The data collected was compared to the Provincial Warrant for All-way Stop Controls with the following results:

	Traffic Study May 3, 2018	Study Results
Warrant 1	Minimum Vehicular Volumes Warranted	105%
Warrant 2	Accident Hazard Warranted	0%
Warrant 3	Sight Restriction Warranted	0%

An All-way Stop Control is recommended at the intersection of Barons Street and Secord Avenue / Danby Street.

All-way stop controls are recommended when one of the above warrants meets 100 per cent. As shown above, the existing traffic volumes exceed the Minimum Vehicular Warrant No. 1 requirements. As such, an all-way stop control is recommended at this location. There have been no reported collisions at this intersection in the years of 2016 and 2017 according to the latest collision data available from York Regional Police.

There are no sightline restrictions at this intersection. Both streets are at level grade and intersect at 90 degrees. No exceptional sight visibility concerns were noted.

With Pope Francis Catholic Elementary School and Laura Secord Park located near the subject intersection, the proposed all-way stop controls would benefit both vehicular and pedestrian movements in the area.

Relationship to Term of Council Service Excellence Strategy Map (2014-2018)

The recommendation in this report is consistent with the strategic priorities related to the Term of Council Service Excellence Strategy Map (2014-2018):

- Improve municipal network;
- Continue to develop transit, cycling and pedestrian options to get around the City; and
- Continue to ensure the safety and well-being of citizens

Financial Impact

The cost associated with the installation of the all-way stop signs and pavement markings is estimated to be \$700 and has been included in the approved 2018 Operating Budget. The on-going cost to maintain the signs and pavement markings (stop bars) is estimated to be \$200 per annum and will be incorporated in future year Operating Budgets.

There are existing concrete pads and sidewalk curb cuts at all four corners of the intersection that will not require additional expenditures.

Broader Regional Impacts/Considerations

Not Applicable.

Conclusion

It is recommended that an all-way stop control be implemented at the intersection of Barons Street and Secord Avenue / Danby Street as the Provincial Warrant for all-way stop controls is met. The implementation of an all-way stop control at this location would benefit both vehicular and pedestrian movements in the area.

For more information, please contact:

Zoran Postic, Director, Transportation Services Parks and Forestry Operations or
Margie Chung, Manager of Traffic Engineering.

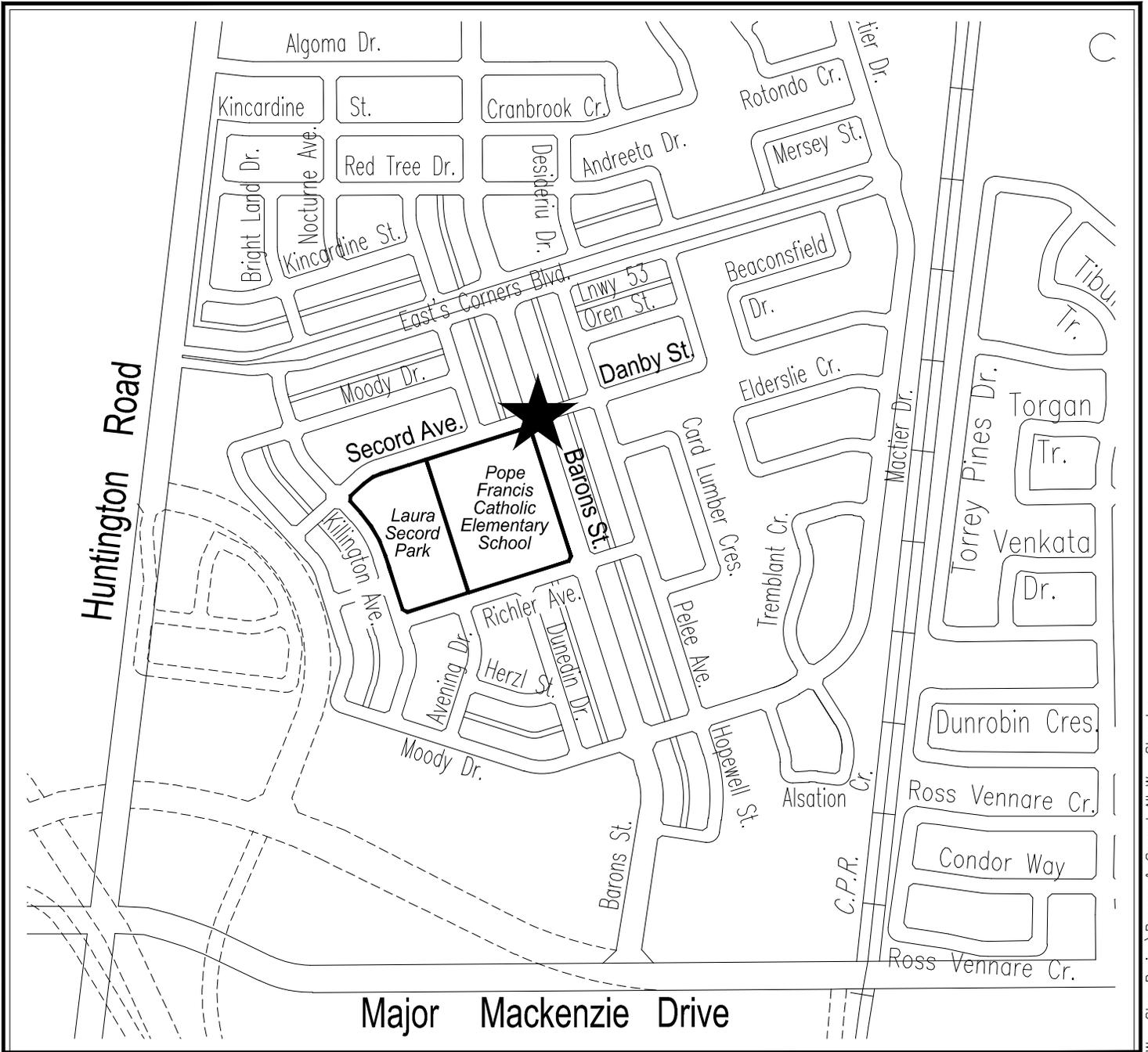
Attachments

1. Location Map

Prepared by

Mark Ranstoller, Senior Traffic Technologist, Ext 6117

ATTACHMENT No. 1



ALL-WAY STOP CONTROL REVIEW BARONS STREET AND SECORD AVENUE / DANBY STREET WARD 1

LEGEND



SUBJECT INTERSECTION



NOT TO SCALE