

All-Way Stop Control - Bainbridge Avenue and Harlock Boulevard

Date: December 12, 2018

To: North York Community Council

From: Acting Director, Transportation Services, Traffic Management

Wards: Ward 6 - York Centre

SUMMARY

This staff report is about a matter for which Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City policy or by-laws.

Transportation Services is requesting North York Community Council to authorize the installation of all-way stop control at the intersection of Bainbridge Avenue and Harlock Boulevard.

The installation of all-way stop sign control is warranted and is recommended to enhance the safety for all users of this intersection, including pedestrians destined to/from the adjacent elementary school.

RECOMMENDATIONS

The Acting Director, Transportation Services, Traffic Management recommends that North York Community Council:

1. Authorize all-way compulsory stop control at the intersection of Bainbridge Avenue and Harlock Boulevard.

FINANCIAL IMPACT

All costs associated with the installation of the all-way compulsory stop control, including required pedestrian ramps, at the intersection of Bainbridge Avenue and Harlock Boulevard, estimated at \$8,000.00 are included within the Transportation Services 2019 Interim Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services was requested by a local resident to review the need for all-way stop control at the intersection of Bainbridge Avenue and Harlock Boulevard, directly in front of St. Robert Catholic School.

Bainbridge Avenue is a local street that runs east/west and operates with two-way traffic. It has a pavement width of approximately 8.5 metres and a posted speed limit of 40 km/h. There is a sidewalk on the north side of the street and there is no TTC service provided on this street.

Harlock Boulevard is a local street that runs north/south and operates with two-way traffic. It intersects the south side of Bainbridge Avenue in a stop controlled "T" type intersection. It has a pavement width of approximately 8.5 metres and a regulatory speed limit of 50 km/h. There is a sidewalk on the west side of the street and there is no TTC service provided on this street.

St. Robert Catholic School is located on the north side of the intersection. This school serves junior kindergarten to grade six. A school staff parking and pick-up/drop-off area is provided on the school's property and it has two driveways on the north side of Bainbridge Avenue.

The existing land use within the immediate area of the intersection of Bainbridge Avenue and Harlock Boulevard is primarily residential.

A review of the Toronto Police Service collision records over the three-year period ending December 31, 2017 disclosed there have been no collisions at this intersection.

In order for all-way stop control to be technically warranted, the warrant criteria adopted by City Council should be satisfied. The criteria includes collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road, and the percentage of traffic on the major road.

Transportation Services undertook studies at this intersection on September 10, 2018 during the peak periods to assess the feasibility of installing an all-way stop control. The numerical study results are summarized in Table 1.

Table 1: All-Way Stop Control at Bainbridge Avenue and Harlock Boulevard

	Bainbridge Avenue and Harlock Boulevard	Actual	Required	Satisfied (YES/NO)
A	Collision History	0/3 yrs	6/3 yrs	NO
B1	Total Vehicle Volumes	251/avg hr	250/avg hr	YES
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road	92/avg hr	100/avg hr	NO
B3	Percentage of traffic on major road	70%	≤70%	YES
	Overall Warrant			YES

In order for the all-way stop control to be technically warranted, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be achieved. Our study results determined that this intersection meets the numerical requirements for the installation of all-way stop control.

Field observations confirmed relatively high pedestrian and vehicle activity during the school's arrival and dismissal times. Additionally, the high demand for on-street parking created potential conflicts between pedestrians and motorists crossing at the intersection.

Therefore, all-way stop control is recommended at the intersection of Bainbridge Avenue and Harlock Boulevard. All-way stop control will reduce the potential conflicts between pedestrians and motorists and will enhance the crossing environment for pedestrians at this intersection.

The Ward Councillor is aware of the recommendations of this staff report.

CONTACT

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SIGNATURE

Roger Browne
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ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Bainbridge Avenue and Harlock Boulevard