

**REPORT FOR ACTION****All-Way Stop Control Review - Bridletowne Circle and Brookmill Boulevard**

Date: April 16, 2019
To: Scarborough Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 22 – Scarborough-Agincourt

SUMMARY

This staff report is about a matter that the Community Council has delegated authority from City Council to make a final decision.

This report recommends that the Community Council to not authorize the installation of an all-way stop control at the intersection of Bridletowne Circle and Brookmill Boulevard as the existing conditions do not meet the warrant for the installation of such a traffic control device. This T-type intersection currently has a stop control for the westbound movement on Brookmill Boulevard facing Bridletowne Circle.

RECOMMENDATIONS

The Acting Director, Traffic Management, Transportation Services recommends that:

1. Scarborough Community Council not authorize all-way compulsory stop control at the intersection of Bridletowne Circle and Brookmill Boulevard.

FINANCIAL IMPACT

There would be no financial impact associated with the staff recommendation.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Further to a request from Councillor and local residents, Transportation Services staff reviewed the feasibility of installing all-way stop control at the intersection of Bridletowne Circle and Brookmill Boulevard.

Existing Conditions

The following key characteristics describe this location:

- This intersection is located within the community south of McNicoll Avenue, east of Warden Avenue, west of Birchmount Road and north of Finch Avenue East.
- Bridletowne Circle is classified as a minor arterial roadway. Brookmill Boulevard is classified as collector road with posted speed limits of 40 km/h. The regulatory speed limit on Bridletowne Circle is unposted 50 km/h, with a 24 hour vehicle volume of 8,679 vehicles per day (vpd).
- Sidewalks are located on both sides of Bridletowne Circle and Brookmill Boulevard.
- The land use in this neighbourhood consists mainly of single family residential dwellings with school and playground in the area.
- The roadway geometry consists of a curve on Bridletowne Circle just north of Brookmill Boulevard.
- Traffic control signals are located approximately 240 metres to the north at Warden Avenue and Bridletowne Circle, and approximately 530 metres to the south at Finch Avenue East and Bridletowne Circle.

Analysis

An All-Way Stop Control Warrant Study conducted on Tuesday, December 18, 2018 at the intersection of Bridletowne Circle and Brookmill Boulevard during the eight hours of the morning and afternoon peak hours of a typical week day, produced the following results:

All-Way Stop Control Warrant	A Total Approach Vehicle Volume	B Vehicle/Pedestrian Volume Crossing Major Road	C Unit Volume Split* Major/Minor Roads
Eight-Hour Study Period Hourly Average	404	79	81/19
Warrant Requirements For Study Period Average For Minor Arterial Roads	≥ 500	≥ 200	≥ 30/70 or ≤ 70/30

- * “Unit Volume Split”: Major Road Volume – Vehicles only.
Minor Road Volume – Vehicles plus pedestrians crossing the major road.

For an all-way stop control to be numerically justified, the traffic volume requirements for the “Study Period Average” must be completely satisfied in Categories A and C, or Categories B and C.

As outlined in the above table, the traffic volumes do not meet the requirements to install an all-way stop control at the subject intersection at this time.

Collision History

A review of the Toronto Police Services collision records available for a three year period from January 1, 2016 to December 31, 2018 revealed that there have been no preventable collisions reported at this intersection.

Alternate Recommendations

If, despite the findings above, the Scarborough Community Council determines that all-way stop control would be beneficial, it may approve the following as to form:

1. Scarborough Community Council authorize all-way compulsory stop control at the intersection of Bridletowne Circle and Brookmill Boulevard.

The financial cost of installing the stop control is approximately \$1,800.00. The funding for these signs are available in the Transportation Services Division's 2019 Operating Budget.

CONTACT

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ATTACHMENTS

1. Location Plan - All-Way Stop Control Review - Bridletowne Circle and Brookmill Boulevard.

Attachment 1: Location Plan - All-Way Stop Control Review - Bridletowne Circle and Brookmill Boulevard.

