

All-Way Stop Control - Confederation Drive and Karen Ann Crescent

Date: February 7, 2023

To: Scarborough Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 24, Scarborough-Guildwood

SUMMARY

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

Transportation Services has reviewed the need for all-way stop control at the intersection of Confederation Drive and Karen Ann Crescent. Based on the assessment undertaken, Transportation Services does not recommend the installation of all-way stop control at this intersection as the warrant criteria was not met.

RECOMMENDATIONS

The Director, Traffic Management, Transportation Services recommends that:

1. Scarborough Community Council not authorize all-way compulsory stop control at the intersection of Confederation Drive and Karen Ann Crescent.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendation in this report.

If Scarborough Community Council amends the recommendation in this report and authorizes the installation of all-way stop control, the estimated cost associated with the amendment is \$2,919.00. Funding would be subject to availability and competing priorities within the Transportation Services 2023 Interim Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Confederation Drive and Karen Ann Crescent.

Existing Conditions

Confederation Drive is characterized by the following conditions:

- It is a two-lane, east-west, local roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 1,400 vehicles
- The speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There is no Toronto Transit Commission (TTC) service provided
- There are sidewalks located on both sides of the street

Karen Ann Crescent is characterized by the following conditions:

- It is a two-lane, north-south, local roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service provided
- There are no sidewalks located on either side of the street

These two streets intersect to form a "T" type three-leg intersection, with right-of-way controlled by a stop sign for northbound traffic on Karen Ann Crescent.

The area is comprised of residential homes.

A map of the area is included in Attachment 1.

Study Results

In order for all-way stop control to be warranted at an intersection, established criteria must be satisfied. The warrants consist of four components, including: collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

Collision history provided by the Toronto Police Service for the three-year period ending December 31, 2022, disclosed that zero reported collisions occurred at this intersection.

Transportation Services conducted an all-way stop control study on October 20, 2021 at the subject intersection. The results of the study were evaluated against the warrant criteria for all-way stop control as adopted by City Council. The evaluation is summarized in Table 1.

Table 1: All-Way Stop Control Study at Confederation Drive and Karen Ann Crescent

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2020 to December 31, 2022)	0	6	No
B1	Average Vehicle Volumes	72/hour	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)	17/hour	100/hour	No
B3	Percentage of Traffic on Major Street	79%	≤70%	No

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. Based on the study results, the technical warrants for the installation of all-way stop control are not satisfied. Therefore, it is not recommended that all-way stop control be installed at the intersection of Confederation Drive and Karen Ann Crescent.

The Ward Councillor has been advised of the recommendation of this staff report.

CONTACT

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SIGNATURE

for
Roger Browne, M.A.Sc., P. Eng.
Director, Traffic Management, Transportation Services

ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Confederation Drive and Karen Ann Crescent

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