

All-Way Stop Control - Godstone Road at Kempself Crescent (north intersection)

Date: June 10, 2022
To: North York Community Council
From: Director, Traffic Management, Transportation Services
Wards: Ward 17 - Don Valley North

SUMMARY

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

Transportation Services is requesting approval to install all-way stop control at the north intersection of Godstone Road and Kempself Crescent. Based on the assessment undertaken, the installation of all-way stop control is recommended at this intersection and should enhance safety for all road users.

RECOMMENDATIONS

The Director, Traffic Management, Transportation Services recommends that:

1. North York Community Council authorize all-way compulsory stop control at the intersection of Godstone Road and Kempself Crescent (north intersection).

FINANCIAL IMPACT

The estimated costs associated with the proposed amendment is \$12,500.00. Funding is available within the Transportation Services 2022 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, on behalf of local residents, Transportation Services investigated the feasibility of installing all-way stop control at the north intersection of Godstone Road and Kempself Crescent.

Existing Conditions

Godstone Road is characterized by the following conditions:

- It is an 8.5 metre wide, two-way, north-south, local roadway that runs north from Fairview Mall Drive and curves west to intersect with Don Mills Road East
- Godstone Park is located on the east side of the street where it curves west at the north end
- The daily two-way traffic volume is approximately 1,500 vehicles
- The speed limit on Godstone Road is 40 km/h, north of the north intersection with Kempself Crescent and 50 km/h south of the intersection
- Heavy trucks are prohibited at all times
- There is no TTC service provided on the street
- There are sidewalks on both sides of the street
- The land use near both intersections is primarily detached residential on the east side and high rise rental apartment buildings on the west side.

Kempself Crescent is characterized by the following conditions:

- It is an 8.5 metre wide local two-way roadway that forms a crescent on the east side of Godstone Road
- The speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service provided
- There is a sidewalk located on the north side of the street.

Study Results

Godstone Road operates free flow at the T-type north intersection with Kempself Crescent. Westbound traffic on Kempself Crescent is stop controlled at the intersection.

A review of the Toronto Police Service collision records for the three year period ending December 31, 2021 revealed that there were no reported collisions on Godstone Road along Godstone Park or at the north intersection with Kempself Crescent.

In order for all-way stop control to be justified the warrant criteria adopted by City Council must 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.

The warrant criteria was applied against the collision history and a vehicle and pedestrian study at the intersection of Godstone Road and the north intersection of Kempself Crescent was conducted during the peak hours on April 12, 2022. Pedestrians

crossing Godstone Road at Godstone Park, 40 metres north of the intersection, were also included in the warrant review since it is likely they would divert to the intersection should all-way stop control be signed. The study results are summarized in the following table:

Godstone Road and Kempself Crescent(north leg)		Actual	Required	Satisfied (YES/NO)
A	Collision History	0/3 yrs	6/3 yrs	NO
B1	Total Vehicle Volumes	134	250/avg hr	NO
B2	Combined Vehicles & Pedestrians Crossing Major Road***	100	100/avg hr	YES
B3	Percentage of Traffic on Major Road	56	≤70	YES
	Overall Warrant			YES

*** New pedestrian warrant criteria used as adopted by City Council on July 16, 2019 in the Vision Zero 2.0 report

In order for the all way stop “Overall Warrant” to be met, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be met. Therefore, the installation of all-way stop control at the intersection is justified.

The installation of all way stop control at the north intersection of Godstone Road and Kempself Crescent will provide a nearby controlled crossing for pedestrians that currently cross Godstone Road at the park as well as the intersection.

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

CONTACT

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SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - All-way Stop Control - Godstone Road and Kempself Crescent (north)
All-Way Stop Control - Godstone Road & Kempself Crescent

Map - All-Way Stop Control - Godstone Road & Kempsell Crescent (north)

