

## **All-Way Stop Control - Janray Drive and Chandler Drive (north intersection)**

**Date:** June 8, 2023

**To:** Scarborough Community Council

**From:** Director, Traffic Management, Transportation Services

**Wards:** Ward 24, Scarborough-Guildwood

### **SUMMARY**

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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 an all-way stop control at the intersection of Janray Drive and Chandler Drive (north intersection). Based on the assessment undertaken, Transportation Services recommends the installation of an all-way stop control at Janray Drive and Chandler Drive (north intersection). The proposed all-way stop control will provide enhanced safety for all road users this intersection.

### **RECOMMENDATIONS**

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The Director, Traffic Management, Transportation Services recommends that:

1. Scarborough Community Council approve the installation of compulsory stop control for northbound and southbound traffic on Janray Drive at Chandler Drive (north intersection).

### **FINANCIAL IMPACT**

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The estimated cost for installing an all-way compulsory stop control is \$2,919.00. Funding would be subject to availability and competing priorities within the Transportation Services 2023 Operating and Capital Budgets.

## DECISION HISTORY

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This report addresses a new initiative.

## COMMENTS

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At the request of the Ward Councillor, on behalf of area residents, Transportation Services reviewed the need for all-way stop control at the intersection of Janray Drive and Chandler Drive (north intersection).

### Existing Conditions

Janray Drive 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 8.2 metres
- The daily two-way traffic volume is approximately 600 vehicles
- The speed limit will be reduced to 30 km/h from 40 km/h in the future, as per SC32.11 - Vision Zero Road Safety Plan Speed Limit Reductions to 30 kilometres per hour on Local Roads and Public Lanes - Scarborough Area (Ward 20 and Ward 24)
- Heavy trucks are prohibited at all times
- There is no TTC service provided
- There are sidewalks located on both sides of the street

Chandler 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 8.2 metres
- The daily two-way traffic volume is approximately 500 vehicles
- The speed limit will be reduced to 30 km/h from 50 km/h in the future, as per SC32.11 - Vision Zero Road Safety Plan Speed Limit Reductions to 30 kilometres per hour on Local Roads and Public Lanes - Scarborough Area (Ward 20 and Ward 24)
- Heavy trucks are prohibited at all times, between the northern intersection with Janray Drive and the southern intersection with Janray Drive
- There is no TTC service provided
- There are sidewalks located on both sides of the street

Stop controls are present for side street traffic for eastbound and westbound traffic on Chandler Drive (north intersection).

The area is comprised of residential homes, Densgrove Park to the west of the intersection, St. Barbara Catholic Elementary School to the south of the intersection, and Golf Road Junior Public School and Tecumseh Senior Public School located on the west side of Scarborough Golf Club Road, south of Chandler Drive.

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 February 17, 2023 disclosed that zero reported collisions occurred at this intersection.

Transportation Services conducted an all-way stop control study on September 29, 2022 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 below.

Table 1: All-Way Stop Control Study at Janray Drive and Chandler Drive (north intersection).

| No. | Warrant Type                                                                           | Actual   | Required | Satisfied (Yes/No) |
|-----|----------------------------------------------------------------------------------------|----------|----------|--------------------|
| A   | Number of Potentially Preventable Collisions (February 18, 2020, to February 17, 2023) | 0        | 6        | No                 |
| B1  | Average Vehicle Volumes                                                                | 82/hour  | 150/hour | No                 |
| B2  | Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)                    | 143/hour | 100/hour | Yes                |
| B3  | Percentage of Traffic on Major Street                                                  | 26%      | ≤70%     | 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.

Based on the study results, the technical warrants for the installation of all-way stop controls was satisfied. Specifically, the warrant criteria was met based on a significant amount of students traveling between Densgrove Park and the schools on Scarborough Golf Club Road (Tecumseh Senior Public School and Golf Road Junior Public School). Based on the presence of vulnerable road users crossing at this intersection, it is recommended that all-way stop control be installed at the intersection of Janray Drive and Chandler Drive (north intersection).

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

## **CONTACT**

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## **SIGNATURE**

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

## **ATTACHMENTS**

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Attachment 1: Map - All-Way Stop Control - Janray Drive and Chandler Drive

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