

Date: March 19, 2021

To: Chair and Members of General Committee

From: Geoff Wright, P.Eng, MBA, Commissioner of
Transportation and Works

Originator's files:
MG.23.REP
RT.10.Z-12

Meeting date:
April 14, 2021

Subject

**All-Way Stop – Sherway Drive at Denise Road and Sherway Drive at Safeway Crescent
(East Intersection) (Ward 1)**

Recommendation

That an all-way stop control not be implemented at the intersections of Sherway Drive at Denise Road and Sherway Drive at Safeway Crescent (east intersection), as outlined in the report from the Commissioner of Transportation and Works, dated March 19, 2021 and entitled "All-way Stop – Sherway Drive at Denise Road and Sherway Drive at Safeway Crescent (East Intersection) (Ward 1)".

Background

The Transportation and Works Department has been requested by the Ward Councillor to submit a report to General Committee regarding the implementation of an all-way stop at the intersections of Sherway Drive at Denise Road and Sherway Drive at Safeway Crescent (East Intersection).

Currently, the intersection of Sherway Drive at Denise Road operates as a three-leg intersection with a stop control southbound on Denise Road. A location map is attached as Appendix 1.

In addition, the intersection of Sherway Drive at Safeway Crescent (East Intersection) operates as a three-leg intersection with a stop control southbound on Safeway Crescent. A location map is attached as Appendix 2.

Comments

Manual turning movement counts were completed to determine the need for an all-way stop control based on traffic volumes. The results are as follows:

Sherway Drive at Denise Road

	<u>Warrant Value</u>
Warrant 1: Volume for All Approaches	43%
Warrant 2: Minor Street Volume	46%

Sherway Drive at Safeway Crescent (East Intersection)

	<u>Warrant Value</u>
Warrant 1: Volume for All Approaches	58%
Warrant 2: Minor Street Volume	22%

In order for an all-way stop control to be warranted based on traffic volumes, both Warrants 1 and 2 must equal 100%. A review of the collision history at both intersections did not reveal any reported collisions within the past three years. For an all-way stop control to be warranted based on collision frequency, at least five collisions must occur in a 12-month period, provided the collisions are of the type considered correctable by the use of an all-way stop (i.e. turning movement, angle collisions).

Therefore, the all-way stops are not warranted based on the turning movement count results and collision history.

Financial Impact

In the event that an all-way stop is required, costs associated with the sign installations can be accommodated by the 2021 Operating Budget in cost center 23978.

Conclusion

Based on the manual turning movement count results and collision history at both intersections, the Transportation and Works Department recommends against the installation of an all-way stop at the intersections of Sherway Drive at Denise Road and Sherway Drive at Safeway Crescent (East Intersection).

Attachments

Appendix 1: Location Map - All-Way Stop – Sherway Drive at Denise Road (Ward 1)

Appendix 2: Location Map - All-Way Stop – Sherway Drive at Safeway Crescent (East Intersection) (Ward 1)



Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

Prepared by: Milan Pavlovic, Traffic Operations Technician