

Pedestrian Crossing Protection Review - Warden Avenue and Walbon Road

Date: January 28, 2019
To: Scarborough Community Council
From: Acting Director, Transportation Services, Scarborough District
Wards: Ward 21 – Scarborough Centre

SUMMARY

This report recommends that neither traffic control signals nor a pedestrian crossover be approved at the intersection of Warden Avenue and Walbon Road. The assessment concludes that based on current peak vehicular and pedestrian volume and delays and conflicts at this location, neither traffic control signals nor a pedestrian crossover is warranted at this time.

RECOMMENDATIONS

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

1. City Council not authorize the installation of traffic control signals at the intersection of Warden Avenue and Walbon Road.
2. City Council not authorize the installation of a pedestrian crossover at the intersection of Warden Avenue and Walbon Road.

FINANCIAL IMPACT

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

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

As a result of a claim and a public request for Pedestrian Crossing protection, Transportation Services staff conducted a pedestrian crossing protection review at the intersection of Warden Avenue and Walbon Road. The pedestrian crossover study covered an area of approximately 100 metres in length, 50 metres north and 50 metres south at this location.

Existing Conditions

The following key characteristics describe this location:

- Walbon Road is located on Warden Avenue between Eglinton Avenue East and Lawrence Avenue East.
- Warden Avenue is classified as a five-lane major arterial road with centre left-turn lane and posted speed limit of 60 km/h, with a 24 hrs vehicle volume of 26, 593 vehicle per day (vpd).
- There are sidewalks on both sides of Warden Avenue. Street lighting is on the west side of Warden Avenue.
- The land use in this neighbourhood consists mainly of single family residential dwellings. George Peck Public School located at 1 Wayne Avenue.
- Adjacent traffic control devices are located approximately 300 metres to the north at Sherwood Avenue (TCS) and approximately 210 metres to the south at Wayne Avenue (TCS).
- There are good sightlines for pedestrians to view approaching vehicles and there are adequate gaps in the traffic flow of pedestrian crossings.

Analysis

Pedestrian Crossing Protection Warrant Studies

Transportation Services staff conducted a Pedestrian Crossing Protection Warrant Study at the intersection of Warden Avenue and Walbon Road. The study provides an assessment of the need for a signalized pedestrian crossover based on crossing pedestrian volumes and delays and are expressed in terms of percent compliance with accepted thresholds. The 100% threshold is approximately 200 pedestrian crossings in an eight-hour period. Using traffic volumes recorded over the peak eight hours of a typical weekday, the following results were obtained:

Pedestrian Crossover Warrant Studies and Historical Counts

Pedestrian Crossover Warrant	Compliance Level
	Tuesday, February 27, 2018
Pedestrian Volume (8 hours)	12% (23 crossings)
Pedestrian Delays	15%

As outlined in the above table, the installation of a pedestrian crossover is not justified because both categories must be met 100%.

In addition, Transportation Services staff conducted a Traffic Control Signal Justification Study at the intersection of Warden Avenue and Walbon Road. The study provides an assessment of the need for Traffic Control Signals based on volumes and delays to cross vehicular traffic and pedestrians, and are expressed in terms of percentages so as to be comparable over time. For traffic control signals to be numerically justified, one of the "Minimum Vehicular Volume" or "Delay to Cross Traffic" or "Collision Hazard" warrants must be 100 % satisfied, or both "Minimum Vehicular Volume" and "Delay to Cross Traffic" must be at least 80% satisfied.

Traffic Control Signal Justification Studies

Traffic Control Signal Warrant	Compliance Level
	Tuesday, February 27, 2018
Minimum Vehicular Volume	5%
Delay to Cross Traffic	6%
Collision Hazard	0%

As outlined in the above table, the traffic volumes do not satisfy the warrants to install traffic control signals at the subject location at this time.

Collision History

A review of the Toronto Police Service collision records for the Three-year period ending December 31, 2017 is summarised below.

Three-Year Collision	2015	2016	2017	Total
Preventable Collision for TCS	0	0	0	0
Pedestrian Crossing Warden Avenue	1	0	1	2

This collision record is not indicative of a safety problem at this location. It should be noted that there was a pedestrian fatality on Warden Avenue south of Walbon Road on November 10, 2017.

In summary, traffic control signals are not justified and should not be installed at the subject intersection. The TTC has been consulted and concurs with these findings.

CONTACT

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ATTACHMENTS

1. Location Plan (Pedestrian Crossing Protection Review - Warden Avenue and Walbon Road).

Attachment 1 - Location Plan (Pedestrian Crossing Protection Review - Warden Avenue and Walbon Road).

