

Traffic Control Signals – Davenport Road and Dovercourt Road

Date: June 1, 2018
To: Etobicoke York Community Council
From: Director, Transportation Services, Etobicoke York District
Wards: Ward 17 – Davenport

SUMMARY

The purpose of this report is to obtain approval for the installation of a traffic control signal at the intersection of Davenport Road and Dovercourt Road.

The installation of traffic control signals is technically justified and will enhance safety for pedestrians and motorists at the intersection. However, the installation may cause some delay for westbound motorists on Davenport Road at Dovercourt Road due to the interconnection with the intersection of Davenport Road and Oakwood Avenue.

As the Toronto Transit Commission (TTC) operates bus service on Davenport Road and Dovercourt Road, City Council approval of this report is required. TTC has been advised on the matter.

RECOMMENDATIONS

The Director, Transportation Services, Etobicoke York District recommends that:

1. City Council approve the installation of traffic control signals at the intersection of Davenport Road and Dovercourt Road.

FINANCIAL IMPACT

The estimated cost for the installation of traffic control signals at Davenport Road and Dovercourt Road is \$180,000.00. Potential removal of the concrete crosswalk on the south leg of the intersection could result in additional costs. These funds are included within the Transportation Services' 2019 Operating Budget subject to the availability of funding and competing priorities.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services staff received a request from the Ward Councillor, on behalf of area residents, to assess the safety of the intersection for both pedestrians and motorists on Dovercourt Road and Davenport Road and to investigate the feasibility of installing a traffic control signals at this location. A map of the area is Attachment 1.

According to the City of Toronto's road classification system, Davenport Road is classified as a 'Minor Arterial' roadway. Davenport Road has a two-lane cross section, with parking lanes and bike lanes on both side of the roadway. The posted speed limit is 40 km/h with sidewalks on both sides of the street. Dovercourt Road is classified in the City of Toronto's road classification system as a 'Minor Arterial' roadway. Dovercourt Road has a four-lane cross section and a posted 40 km/h speed limit. Sidewalks exist on both side of the street. Traffic control signals exist at Davenport Road and Oakwood Avenue approximately 70 metres east of the subject location and at Davenport Road and Salem Avenue North a pedestrian crossover exists approximately 195 metres west of the subject location.

The Toronto Transit Commission (TTC) operates transit service on both Davenport Road and Dovercourt Road. The closest bus stops are located on Dovercourt 30 metres south of the subject location for both northbound and southbound buses.

Traffic counts were undertaken at Davenport Road and Dovercourt Road in November 2017. Based on the eight-hour vehicular and pedestrian traffic counts, and the collision history, the technical justification for the installation of traffic control signals are satisfied to the following extent:

Traffic Control Signal Warrant - Davenport Road and Dovercourt Road

	Actual Hourly Average (A)	Minimum Required (B)	Warrant % (A/B)	Criteria*		
				1	2	3
Warrant 1: Minimum Vehicular Volume Warrant (8 Hrs)	246	255	89%	100%	>80%	*MET
				OR	AND	
Warrant 2: Delay to Cross Traffic Warrant (8 Hrs)	102	75	92%	100%	>80%	*MET
				OR		
Warrant 3: Collision Hazard Warrant (3 Years)	7	15	0%	100%	0%	NOT MET

*In order to meet the warrants, 100 percent compliance is required in one of the three warrants or a minimum of 80 percent in both of the first two warrants. The Collision Hazard warrant is based on the number of collisions susceptible to correction by the installation of traffic control signals and must be 100 percent satisfied.

Based on the above results, the installation of traffic control signals is technically justified on Davenport Road at Dovercourt Road as both Warrants 1 and 2 exceed the 80% minimal warrant percentage required.

Our review of the collision records (over the last 3 years of complete data) reveals 7 preventable collisions.

Transportation Services has advised TTC of the proposed traffic control signals. At the time that this report was written, Transportation Services staff had not received any comments or concerns from TTC.

Based on the above review and analysis, Transportation Services recommends the installation of traffic control signals at the intersection of Davenport Road and Dovercourt Road. This installation will enhance overall safety for pedestrians, cyclists and motorists at this intersection.

With the installation of traffic signal poles, handwells and ducts this could result in some pole clustering on the sidewalks. Parking spaces will be removed on the north side of the intersection. The concrete crosswalk on the south leg of the intersection could potentially be removed and result in some additional costs. Furthermore, the installation may cause some "green start" delay for westbound motorists on Davenport Road at Dovercourt Road due to the interconnection with the intersection of Davenport Road and Oakwood Avenue.

The Councillor was asked to advise the residents on the north side of Davenport Road that a new traffic control signal is being proposed fronting their homes.

The Ward Councillor is aware and supports the recommendation in this staff report.

CONTACT

Larysa Sereda
Engineering Technologist - Etobicoke York District
Tel: 416-394-8435
Fax: 416-394-8942
E-Mail: larysa.sereda@toronto.ca
AFS27109
P:\2018\Cluster B\TRA\EtobicokeYork\eycc180107-to

SIGNATURE

Steven T. Kodama, P.Eng.
Director, Transportation Services - Etobicoke York District

ATTACHMENT

Attachment 1: Location Plan - Davenport Road and Dovercourt Road

Attachment 1: Location Plan: Davenport Road and Dovercourt Road

