



**STAFF REPORT
ACTION REQUIRED**

Traffic Control Signal: Sheppard Avenue West and Bakersfield Street/Vitti Street

Date:	October 8, 2015
To:	North York Community Council
From:	Director, Transportation Services Division, North York District
Wards:	Ward 8 – York West and Ward 9 – York West
Reference Number:	<i>p:2015/ClusterB/TRA/NorthYork/ny15087</i>

SUMMARY

As the Toronto Transit Commission (TTC) operates a transit service on Sheppard Avenue West, City Council approval of this report is required.

Transportation Services is requesting approval to install traffic control signals at the intersection of Sheppard Avenue West and Bakersfield Street/Vitti Street.

The installation of traffic control signals is technically justified and will enhance safety for pedestrians, cyclist and motorist crossing Sheppard Avenue or accessing the TTC station.

RECOMMENDATIONS

Transportation Services recommends that:

1. City Council approve the installation of traffic control signals at the intersection of Sheppard Avenue West and Bakersfield Street/Vitti Street.

Financial Impact

All costs associated with the implementation of the new traffic control signal and associated traffic by-laws contained in this report will be borne by the Toronto Transit Commission-Toronto York Spadina Subway Extension Department (TTC-TYSSE).

DECISION HISTORY

At its meeting of July 12, 2011, City Council approved the road alteration of Sheppard Avenue West and Bakersfield Street/Vitti Street for the purpose of creating a four legged intersection which will service the future Sheppard Avenue West Subway Station.

Council Link:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2011.NY8.22>

ISSUE BACKGROUND

The TTC-TYSSE project which has been approved by City Council will extend the existing Yonge-University-Spadina Subway line by 8.6 kilometres and will add six stations, four of which will be within the City of Toronto. The development of the station designs and associated traffic plans has been undertaken through close liaison between staff from various City of Toronto Divisions and TTC-TYSSE.

With regards to the Sheppard Avenue West Subway Station, the TTC-TYSSE has identified that a new roadway connection will be required on the south side of Sheppard Avenue West at Bakersfield Street. They have also requested that this intersection be controlled by traffic control signals.

COMMENTS

Sheppard Avenue West in vicinity of Bakersfield Street is a four-lane major arterial roadway with a raised centre median and a posted speed limit of 60 km/h. The average daily two-way traffic flow on this section of roadway is approximately 26,000 vehicles. The intersection of Sheppard Avenue West and Bakersfield Street currently forms a "T" intersection with Bakersfield on the north side Sheppard Avenue West.

The nearest traffic control signal to this intersection is located 500 metres east at Chesswood Drive and 270 metres west at Tuscan Gate. Immediately east of Bakersfield Street/Vitti Street is the Canadian National Railway overpass.

Sheppard West Subway Station will be located on Parc Downsview Park lands south of Sheppard Avenue West between Bakersfield Street/Vitti Street and Chesswood Drive. The south leg (Vitti Street) of the Sheppard/Bakersfield intersection will provide passenger pick-up and drop-off access for private vehicles. In order to accommodate the proposed traffic operations in conjunction with the station opening, several geometric modifications are required as follows:

- Removal of the existing raised centre median on Sheppard Avenue West.
- Widening of Bakersfield Street, north of Sheppard Avenue West to accommodate two outbound lanes (a shared right turn and through lane and an exclusive left turn lane) plus one inbound lane.

- Localized widening of Sheppard Avenue West in order to accommodate eastbound and westbound left turn lanes.
- Construction of a fourth leg on the south side of the intersection.

The TTC-TYSSE consultants (Aecom) has indicated that under the future background traffic condition the intersection of Sheppard Avenue West and Bakersfield Street/Vitti Street will warrant traffic control signals. The technical requirements for the installation of traffic control signals were satisfied to the following extent:

Warrant		Compliance
Warrant 1	Minimum Vehicular Volume	100%
Warrant 2	Delay to Cross Traffic	100%

To justify the installation of traffic control signals, one of either the Minimum Vehicular Volume or Delay to Cross Traffic warrants must be 100 per cent satisfied, or both must be satisfied to the extent of 80 per cent.

Staff's review of the Traffic Impact Study (TIS) has concluded that the Consultants recommendations are appropriate.

Once the installation of the south leg is complete, this intersection will operate as a four legged signalized intersection.

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

CONTACT

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SIGNATURE

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 Director

ATTACHMENTS

Attachment 1: Map – Traffic Control Signal: Sheppard Ave W and Bakersfield St/Vitti St