All-Way Stop Control – Adelaide Street West and Stafford Street

Date: October 26, 2017
To: Toronto and East York Community Council
From: Acting Director, Transportation Services, Toronto and East York District
Wards: Ward 19, Trinity-Spadina

SUMMARY

This staff report is about a matter that Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City policy or by-laws.

Transportation Services staff have reviewed the need for all-way stop control at the intersection of Adelaide Street West and Stafford Street, to address residents’ concerns regarding safety. Our assessment indicates the criteria as set out in the all-way stop warrant has not been satisfied at this intersection. Therefore, an all-way stop control should not be installed at the intersection of Adelaide Street West and Stafford Street.

RECOMMENDATIONS

The Acting Director, Transportation Services, Toronto and East York District recommends that:

1. Toronto and East York Community Council deny the installation of an all-way stop control at the intersection of Adelaide Street West and Stafford Street.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendations in this report.

DECISION HISTORY

This report addresses a new initiative.
**Existing Conditions**
Adelaide Street West is a collector roadway that operates one-way in the eastbound direction. It generally has a width of 7.3 metres and the posted speed limit is 40 km/h.

Stafford Street is "Stop" controlled with its intersection at Adelaide Street West. Stafford Street is a local roadway that operates one-way in the southbound direction. It generally has a width of 7.3 metres and the speed limit is 50 km/h. Recently, Bill 975 was enacted by Toronto and East York Community Council, at it's meeting on September 6, 2017 to amend City of Toronto Municipal Code Chapter 950, Traffic and Parking, respecting the reduction of the speed limit from 50 km/h to 30 km/h on local roads within the Toronto and East York Community Council boundaries. Accordingly, the posted speed limit on Stafford Street will be reduced to 30 km/h. There is no TTC service provided at this intersection. The land use in the vicinity of this intersection is generally residential with employment areas just west of Stafford Street.

**Analysis**
In order for an all-way stop control to be justified at an intersection, established warrant criteria must be satisfied. The criteria, as adopted by City Council, include such factors as collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

Transportation Services evaluated the intersection of Adelaide Street West and Stafford Street and applied the results of the vehicle/pedestrian study and Toronto Police Service collision records to the all-way stop control warrant criteria. Based on the review, this intersection does not meet the minimum criteria required for an all-way stop control.

Collision statistics provided by the Toronto Police Service for the three-year period ending December 31, 2016 disclosed that four collisions had occurred at Adelaide Street West and Stafford Street. Three of the collisions were angle type and one involved a cyclist.

The results of the all-way stop control warrant study at the intersection of Adelaide Street West and Stafford Street has been summarized in the following table:
Table 1 - All-Way Stop Control Warrant

<table>
<thead>
<tr>
<th>Total Approach Vehicular Volume</th>
<th>Combined Crossing Volume (Vehicles &amp; Pedestrians)</th>
<th>Main Street/Side-Street Volume Split (≤70%/30%)</th>
<th>Collision Hazard (≥3/Year)</th>
<th>All-Way Stop Warrants Satisfied (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required: 375 Vehicles/ Hour</td>
<td>Required: 150 Units/Hour</td>
<td>76%/24% (Not Met)</td>
<td>1.3 (Not Met)</td>
<td>No</td>
</tr>
<tr>
<td>Actual: 187 Vehicles/Hour (Not Met)</td>
<td>Actual: 55 Units/Hour (Not Met)</td>
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<td></td>
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</tbody>
</table>

Based on the above review, the technical warrants for the installation of an all-way stop control at the intersection of Adelaide Street West and Stafford Street are not satisfied and the requested installation of an all-way stop control at this intersection is not recommended.

Councillor Mike Layton has been advised of the recommendations of this staff report.

CONTACT

Bruce Clayton
Manager, Traffic Operations
Toronto and East York District
Transportation Services
Telephone: (416) 397-5021
Fax: (416) 392-1920
E-mail: Bruce.Clayton@toronto.ca

SIGNATURE

Dave Twaddle, C.E.T.
Acting Director, Transportation Services
Toronto and East York District

ATTACHMENTS

1. Drawing No. 421G-2620, dated October 2017
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