All-Way Stop Control: Delhi Avenue and Northmount Avenue

Date: November 25, 2014
To: North York Community Council
From: Director, Transportation Services, North York District
Wards: Ward 10 – York Centre
Reference Number: p:/2015/ClusterB/TRA/NorthYork/ny15008

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 is responding to a request for the installation of an all-way stop control at the intersection of Delhi Avenue and Northmount Avenue.

The existing traffic and roadway conditions do not warrant the introduction of an all-way stop control at the above-noted intersection.

RECOMMENDATIONS

Transportation Services recommends that North York Community Council:

1. Deny the installation of an all-way stop control at the intersection of Delhi Avenue and Northmount Avenue.

Financial Impact

There is no financial impact associated with the adoption of this report.
ISSUE BACKGROUND

Transportation Services was requested by the Ward Councillor on behalf of the area residents to review the feasibility of installing an all-way stop control at the intersection of Delhi Avenue and Northmount Avenue.

The area residents have requested an all-way stop control at the intersection of Delhi Avenue and Northmount Avenue, in order to address their concern with motorists that speed on these roads.

COMMENTS

Delhi Avenue and Northmount Avenue are classified as local roads and form a T-type intersection. The regulatory speed limit on both of these roadways is 40 km/h. Currently, northbound traffic on Northmount Avenue is required to stop, and eastbound and westbound traffic on Delhi Avenue is free flow. A review of the area has indicated that there are municipal sidewalks on the north side of Delhi Avenue and none on Northmount Avenue.

Located on the southwest and southeast corners of the intersection are single family homes and on the north side of the intersection is the rear playground area for Armour Heights Elementary School. An access point is provided to the playground from Northmount Avenue.

To assess existing traffic conditions at the intersection of Delhi Avenue and Northmount Avenue, staff of this Division conducted an all-way stop study on May 14, 2014 which involved updating the vehicle and pedestrian volumes, assessing the existing roadway geometry and analyzing the intersection collision statistics.

The results of the study are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Delhi Avenue and Northmount Avenue</th>
<th>Actual</th>
<th>Required</th>
<th>Satisfied (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A:</strong> Collision History</td>
<td>0/3 yrs</td>
<td>6/3 yrs</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>B1:</strong> Total Vehicle Volumes</td>
<td>90</td>
<td>250/avg hr</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>B2:</strong> Combined Vehicle &amp; Pedestrian Volumes Crossing Major Road</td>
<td>52</td>
<td>100/avg hr</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>B3:</strong> Percentage of Traffic on Major Road</td>
<td>87</td>
<td>≤70</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>Overall Warrant</strong></td>
<td></td>
<td></td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

In order for the all-way stop “Overall Warrant” to be warranted, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be achieved. Based on the warrant criteria, the technical requirements necessary for the installation of an all-way stop control have not been satisfied.
A review of the geometry of the intersection has indicated that the stop controls are clear and unobstructed. The motorist and pedestrian sight lines were also found to be clear and unobstructed for all approaches to the intersection.

In reviewing the three-year (January 2011 – December 2013) collision history, there have been no collisions at the intersection of Delhi Avenue and Northmount Avenue of a type susceptible to correction by the installation of an all-way stop control.

Engineering Studies have indicated that the installation of unwarranted stop signs may lead to a high level of non-compliance, which may result in an increase in the number of collisions and the reduction in the level of safety for both motorists and pedestrians. Furthermore the installation of stop controls should not be used as a method to control vehicle speeds on the main street.

In view of the above, we cannot support the installation of an all-way stop control at the intersection of Delhi Avenue and Northmount Avenue at this time.

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

**CONTACT**

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**SIGNATURE**

_______________________________  
Jacqueline White, P. Eng.  
Director

**ATTACHMENTS**

Attachment 1: Map – All-Way Stop Control: Delhi Ave and Northmount Ave