Traffic Control Signals – Islington Avenue and Nordin Avenue / Athol Avenue

Date: October 5, 2017
To: Etobicoke York Community Council
From: Director, Transportation Services, Etobicoke York District
Wards: Ward 5 – Etobicoke Lakeshore

SUMMARY

The purpose of this report is to provide the results of a Traffic Control Signal Warrant study at the intersection of Islington Avenue and Nordin Avenue / Athol Avenue. Since the Toronto Transit Commission (TTC) provides service on Islington Avenue, City Council approval of this report is required. TTC staff has not been advised of the signal installation studies.

RECOMMENDATIONS

The Director, Transportation Services, Etobicoke York recommends that:

1. City Council NOT approve the installation of traffic control signals at the intersection of Islington Avenue and Nordin Avenue / Athol Avenue as the Traffic Control Signal Warrant is not achieved.

FINANCIAL IMPACT

There is no financial impact associated with this report. However, the financial cost of installing these new traffic control signals would be approximately $180,000.00 should the installation be approved.

DECISION HISTORY

This report addresses a new initiative.
Transportation Services staff received a request by the Ward 5 Councillor to conduct an
assessment at the intersection of Islington Avenue and Nordin Avenue / Athol Avenue
and determine the feasibility of installing traffic control signals. Currently there are no
signalized intersections from this community onto Islington Avenue. As a result, drivers
have difficulties and experience delays attempting to exit the community to travel
northbound Islington Avenue. Concerns have been raised that further development
along The Queensway in this area will only exacerbate this problem. A map of the area
is Attachment 1.

Islington Avenue is classified as a "Major Arterial" road having two lanes in each
direction. The roadway has an urban cross-section which includes curb and gutter with
sidewalks on both sides of the street. The legal speed limit on Islington Avenue is 50
km/h.

Nordin Avenue is classified as a "Local" road with an urban cross-section which
includes curb and gutter with sidewalks on both sides of the street. The speed limit on
Nordin Avenue is 50 km/h.

Athol Avenue is classified as a "Local" road with a rural cross-section (ditched) with no
sidewalks. The speed limit on Athol Avenue is 40 km/h.

The intersection is located approximately 370 metres north of the traffic control signals
at Queensway and approximately 250 metres south of the signalized intersection at
Jutland Road.

The Toronto Transit Commission (TTC) operates transit service on Islington Avenue
(110 Islington) with bus stops currently located on the north and south approaches at
Nordin Avenue / Athol Avenue.

To assess traffic conditions, an eight-hour turning movement count was conducted on a
typical weekday (September 6, 2017) at the intersection. Our turning movement study
results were applied to the Traffic Control Signal Warrant analysis. The study results are
as follows:

<table>
<thead>
<tr>
<th>Minimum Vehicular Volume Warrant</th>
<th>37% compliance</th>
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<tbody>
<tr>
<td>Delay to Cross Traffic Warrant</td>
<td>40% compliance</td>
</tr>
<tr>
<td>Collision Hazard Warrant</td>
<td>13% compliance</td>
</tr>
</tbody>
</table>

In order to meet the warrants, 100 percent compliance is required in one of the
categories or a minimum of 80 percent in the first two. 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.
In reviewing the most recent three year collision history for Islington Avenue and Nordin Avenue / Athol Avenue intersection, there have been two collisions of the type susceptible to correction by the installation of traffic control signals.

Therefore, in view of the above study results, the installation of Traffic Control Signals is not justified at the intersection of Islington Avenue and Nordin Avenue / Athol Avenue.

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SIGNATURE

Steven T. Kodama, P.Eng.
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ATTACHMENTS

1. Location Plan - Islington Avenue at Nordin Avenue / Athol Avenue