Implementation of “All-Way Stop” Control - Cedarvale Avenue and Barker Avenue

<table>
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<tr>
<th>Date:</th>
<th>May 3, 2011</th>
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<tbody>
<tr>
<td>To:</td>
<td>Toronto and East York Community Council</td>
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<tr>
<td>From:</td>
<td>Acting Director, Transportation Services Toronto and East York District</td>
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<tr>
<td>Wards:</td>
<td>Beaches – East York, Ward 31</td>
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<tr>
<td>Reference Number:</td>
<td>Ts2011104te.top.doc</td>
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SUMMARY

This staff report is about a matter for which Community Council has delegated authority from City Council to make a final decision. Transportation Services staff have investigated installing all-way stop control at the intersection of Cedarvale Avenue and Barker Avenue.

The number of pedestrians and vehicles using this intersection is too low to meet the warrant for "All-Way Stop" Control. The existing stop signs on Barker Avenue at Cedarvale Avenue are sufficient.

RECOMMENDATIONS

Transportation Services recommends to Toronto and East York Community Council that:

1. All-Way Stop control not be installed at the intersection of Cedarvale Avenue and Barker Avenue.

Financial Impact

The adoption of the above-noted recommendation will not result in any financial impact.

If, however, Toronto and East York Community Council decides all-way stop control at the intersection of Cedarvale Avenue and Barker Avenue would be beneficial, the funds to undertake the necessary signage adjustments in the estimated amount of $700.00 are contained in the Transportation Services Division 2011 Operating Budget.
ISSUE BACKGROUND
At the request of Councillor Janet Davis, Transportation Services staff have investigated the feasibility of installing "Stop" signs for northbound and southbound traffic on Cedarvale Avenue at Barker Avenue.

COMMENTS
Cedarvale Avenue is a local road operating two-way northbound and southbound with a pavement width of 7.3 metres north of Barker Avenue and 8.2 metres south of Barker Avenue. The posted speed limit is 40 km/h.

Barker Avenue is a local road operating two-way, eastbound and westbound, with a pavement width of 7.3 metres and a speed limit of 50 km/h. “Stop” signs posted on Barker Avenue at Cedarvale Avenue are clearly visible and establish right-of-way. There is no transit route on Cedarvale Avenue.

Our review of the Toronto Police Service’s collision data records disclosed that two collisions, potentially avoidable with the installation of all-way stop controls, were reported at this intersection between January 1, 2008 and December 31, 2010.

Analysis
A review for all-way “Stop” sign control at an intersection considers:

- collision history for the preceding three years;
- vehicle and pedestrian traffic volumes during peak hours;
- the split of traffic volume between one street and the other; and
- local conditions, such as sight lines at the intersection.

The technical results of our investigation are shown in the following table:

<table>
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<tr>
<th>Intersection</th>
<th>Present Condition</th>
<th>Total Vehicle Volume all Approaches (Required 250 Veh/Hr., Each of the 8 Hours)</th>
<th>Vehicles and Pedestrians Crossing the Through Street (Required 100 Units/Hr., Each of the same 8 Hours)</th>
<th>Volume Split (&lt;70%/30%)</th>
<th>Collision Hazard (≥2yr.)</th>
<th>All-way “Stop” Warrants Satisfied (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedarvale Avenue and Barker Avenue</td>
<td>“Stop” signs on Barker Avenue</td>
<td>Actual - 73 Veh/Hr.</td>
<td>Actual - 44 Units/Hr.</td>
<td>49% /51%</td>
<td>0.7</td>
<td>No</td>
</tr>
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Based on the above, the technical warrant for the installation of all-way “Stop” signs at this intersection is not satisfied at the present time.

Alternate Recommendations
If, despite the findings above, Toronto and East York Community Council determines that installing all-way stop control at the intersection of Cedarvale Avenue and Barker Avenue would be beneficial, it may approve the following:
1. All-Way Stop control be installed at the intersection of Cedarvale Avenue and Barker Avenue.

2. The through street designation on Cedarvale Avenue, between Lumsden Avenue and Cosburn Avenue, be amended to exclude the intersection at Barker Avenue.

CONTACT
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SIGNATURE

Angie Antoniou
Acting Director, Transportation Services
Toronto and East York District

LIST OF ATTACHMENTS
(1) Drawing No. 421G-0323, dated April 2011

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