Speed Limit Study – Bell Estate Road

<table>
<thead>
<tr>
<th>Date:</th>
<th>September 21, 2012</th>
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</thead>
<tbody>
<tr>
<td>To:</td>
<td>Scarborough Community Council</td>
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<tr>
<td>From:</td>
<td>Director, Transportation Services, Scarborough District</td>
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<td>Wards:</td>
<td>Ward 35 – Scarborough Southwest</td>
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<tr>
<td>Reference Number:</td>
<td>P:\2012\Cluster B\TRA\Scarborough\sc1289 D12-4648577 Bell Estate 40 km/h speed</td>
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**SUMMARY**

This staff report is about a matter for which the Community Council has delegated authority from City Council to make a final decision.

This report provides the results of 40 km/h speed limit study conducted on Bell Estate Road between Warden Avenue and Pilkington Drive. A 40 km/h speed limit is not technically justified for Bell Estate Road.

**RECOMMENDATIONS**

Transportation Services recommends that Scarborough Community Council:

1. Not approve a 40 kilometre per hour speed limit on Bell Estate Road between Warden Avenue and Pilkington Drive.

2. Not pass or amend the appropriate by-law(s) accordingly.

**Financial Impact**

There is no financial impact associated with this report; however should the 40 km/h speed limit be installed, the financial cost of posting the speed limit signs would be approximately $1,500.00. Funding for the signs would be available in the Transportation Services 2012 Operating Budget, within Cost Centre TP0397.

**ISSUE BACKGROUND**

Further to a request by Councillor Michelle Berardinetti regarding speeding concerns on the subject roadway, Transportation Services staff reviewed the feasibility of reducing the speed limit from 50 km/h to 40 km/h.
The results of our study indicate that the technical warrants for the installation of a 40 km/h speed limit are not met. This warrant review includes an assessment of the Pedestrian Environment, the Road and Traffic Environment, an analysis of the last three years of available collision records, and a speed and volume study.

The justification for introducing a 40 km/h speed limit is based on a review of the technical warrant for this purpose adopted for use in the City of Toronto.

**COMMENTS**
Several characteristics describing the subject portion of Bell Estate Road between Warden Avenue and Pilkington Drive include:

- The land use on the subject roadway consists of single family residential dwellings and a multi-level residential seniors building.
- This roadway is a two-lane local road with a pavement width of approximately 9.7 metres. The 24 hour vehicle volume is approximately 1,582 vehicles per day with an operating speed of approximately 46 km/h.
- Bell Estate Road is currently regulated by an unposted 50 km/h default speed limit.

**40 Km/h Speed Limit Warrant**

Although, there are many seniors in this area, prompting the request for a reduced speed limit on this roadway, application of the relevant warrant reveals that a 40 km/h speed limit is technically not achieved on Bell Estate Road. Specifically, “Road and Traffic Environment” and the “Pedestrian Environment” categories of the 40 km/h Speed Limit Warrant are not satisfied. There are no reported speed related collisions within the last complete three years of collision history on Bell Estate Road.

However, there are many seniors in this area, Wc-7 signage with a Seniors Tab are posted for both directions on Bell Estate Road prompting the request for a reduced speed limit on this roadway.

**Automatic 24-Hour Speed Study**

Roadway: Bell Estate Road, between Dairy Drive and John Bell Crescent
Study Date: Tuesday, September 13, 2011
Speed Limit: 50 Km/h (unsigned)

<table>
<thead>
<tr>
<th>Roadway</th>
<th>Speed Ranges – Km/h</th>
<th>Total Vehicles 24 Hours</th>
<th>85th Percentile Speed*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell Estate Road</td>
<td>1014 544 17 5 2</td>
<td>1,582</td>
<td>46 km/h</td>
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D12-4648577  Bell Estate  40 km/h speed  2
• The 85th percentile speed generally reflects the speed at which most motorists feel comfortable travelling on a given section of roadway, taking into consideration traffic volumes and surrounding conditions.

• The recorded 85th percentile speed is below the current speed limit of 50km/h

Notwithstanding the non-compliance with the 40 km/h speed limit technical warrants, a reasonable amount of compliance with a posted 40 km/h speed limit can be anticipated as the majority of motorists are driving at 46 km/h or less.

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SIGNATURE

Peter J. Noehammer, P.Eng.
Director, Transportation Services, Scarborough District

FJB:ca

ATTACHMENTS

1. Location Plan – (Speed Limit Study – Bell Estate Road)