

COMMITTEE OF THE WHOLE – JANUARY 13, 2009

**GRAND TRUNK AVENUE AND IVY GLEN DRIVE
PROPOSED ALL-WAY STOP CONTROL
WARD 1**

Recommendation

The Commissioner of Engineering and Public Works recommends:

That a By-law be enacted to install an all-way stop control at the intersection of Grand Trunk Avenue and Ivy Glen Drive.

Economic Impact

The cost to install the stop signs and pavement markings (stop bars) would be an initial impact on the 2009 Operating Budget. There are sufficient funds allocated in the Draft Budget for this work. The on-going costs to maintain the signs and pavement markings would be incorporated in future Operating Budgets.

Communications Plan

Engineering Services staff will contact the resident with the direction from Council.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Grand Trunk Avenue and Ivy Glen Drive, in response to a request from an area resident.

Background - Analysis and Options

A request has been received to review the need for all-way traffic control at the intersection of Grand Trunk Avenue and Ivy Glen Drive. Grand Trunk Avenue and Ivy Glen Drive are minor collector roadways with a 23.0 metre right-of-way and a pavement width of 11.5 metres. The current stop controls at this intersection are on Ivy Glen Drive. The existing speed limit on Grand Trunk Avenue is a statutory 50 km/h and 40 km/h within the school zone of Dr. Roberta Bondar Public School. Ivy Glen Drive is also a statutory 50 km/h. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Thursday, September 18, 2008 at the intersection of Grand Trunk Avenue and Ivy Glen Drive. The study was conducted during the peak morning and afternoon time periods of 7:00 am to 9:00 am and 3:00 pm to 6:00 pm. On the day of the traffic study the weather was partly cloudy. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

- | | | |
|---|-----------|-----|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted | 81% |
| • Warrant 2 – Accident Hazard | Warranted | 0% |
| • Warrant 3 – Sight Restriction | Warranted | 0% |

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. Existing traffic volumes fulfill 81% of the required 100% on the warrant. There are no recorded vehicle collisions at this intersection. There are no sight restrictions at this intersection. According to the results above, this intersection does not currently meet the minimum requirements of the Provincial Warrant for All-way Stop Control.

This intersection is designed as a primary intersection within the subdivision that would be identified for future all-way stop controls and possible traffic signals. There are two new School Crossings approved on the north and east approaches of Grand Trunk Avenue and Ivy Glen Drive (beginning in early 2009). It is anticipated that traffic volumes on Grand Trunk Avenue and Ivy Glen Drive will increase as development in the area continues. It would be beneficial to install an all-way stop control at this time for these reasons.

Relationship to Vaughan Vision 2020/Strategic Plan

Enhance and Ensure Community Safety, Health & Wellness – to advocate for, protect and enhance community safety, health and wellness through education, design and enforcement.

This report is consistent with the priorities previously set by Council.

Regional Implications

Not Applicable.

Conclusion

Based on staff's review, it is recommended that an all-way stop control be installed at the intersection of Grand Trunk Avenue and Ivy Glen Drive.

Attachments

1. Location Map

Report prepared by:

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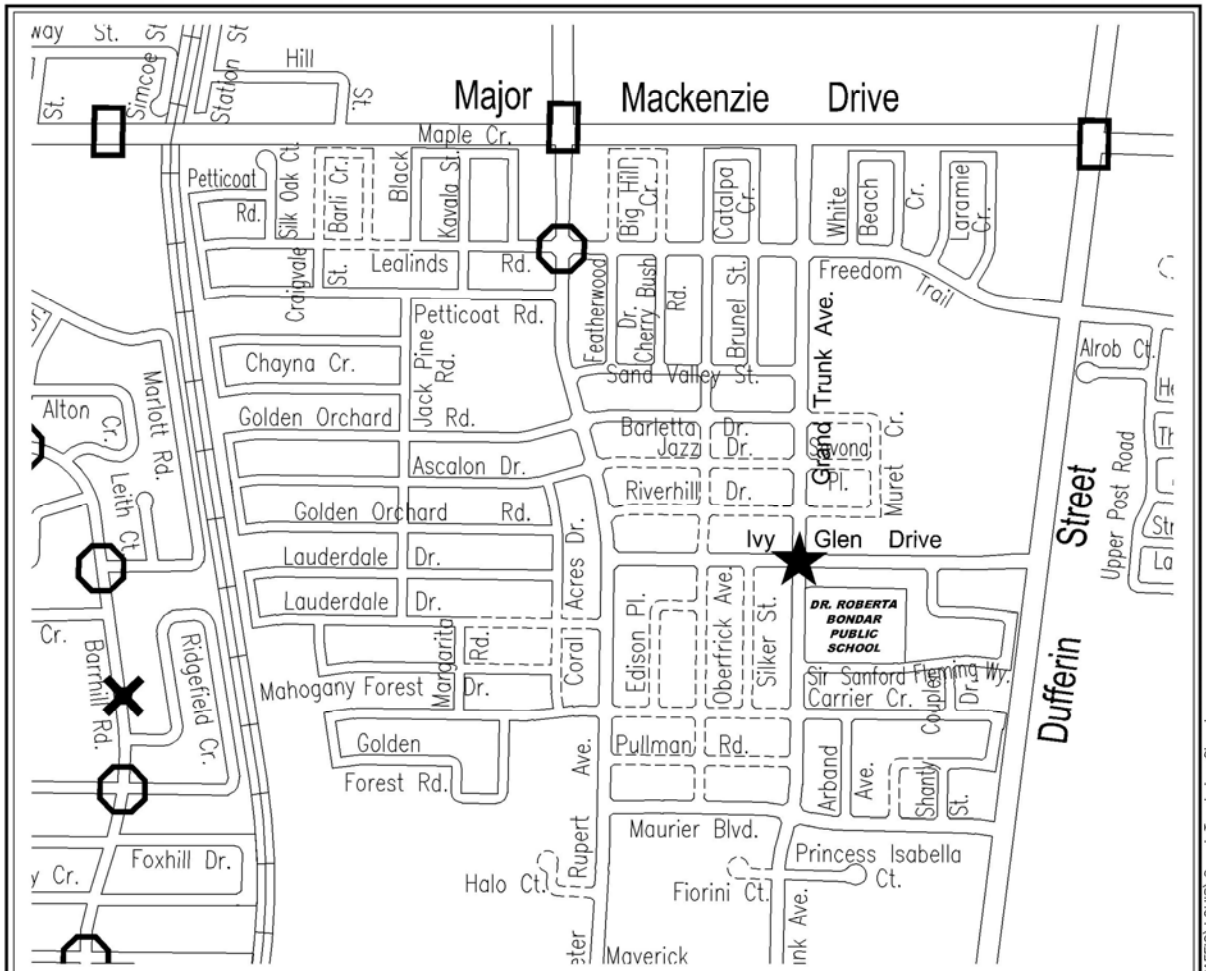
Respectfully submitted,

Bill Robinson, P. Eng.
Commissioner of Engineering and Public Works

Mike Dokman, C.E.T
Supervisor, Traffic Engineering





LW:mc

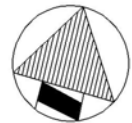
ATTACHMENT No. 1



GRAND TRUNK AVENUE and IVY GLEN DRIVE PROPOSED ALL - WAY STOP

LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL
-  EXISTING SCHOOL CROSSING GUARD



NOT TO SCALE