COMMITTEE OF THE WHOLE JANUARY 21, 2008

MELVILLE AVENUE AND HAWKER ROAD PROPOSED ALL-WAY STOP CONTROL

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control be installed at the intersection of Melville Avenue and Hawker Road.

Economic Impact

There are sufficient funds in the draft 2008 Operating Budget for this work and future Operating Budgets would have sufficient funds for ongoing maintenance of the signs and markings.

Communications Plan

Staff will notify the resident of Council's decision on this matter.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Melville Avenue and Hawker Road, in response to a request from an area resident.

Background - Analysis and Options

A request has been received to review the traffic activity at the intersection of Melville Avenue and Hawker Road. Melville Avenue has a 26.0 metre right-of-way with four travel lanes, and Hawker Road has a 23.0 metre right-of-way with an 11.5 metre pavement width. The existing stop control is located on Hawker Road. The existing speed limit on both roadways is 50 km/h. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Wednesday, May 23, 2007, at the intersection of Melville Avenue and Hawker Road during the morning, mid-day and afternoon peak time periods of 7:00 a.m. to 9:00 a.m., 11:00 a.m. to 2:00 p.m. and 3:00 p.m. to 6:00 p.m. On the day of the traffic study the weather was sunny and clear. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

Warrant 1 – Minimum Vehicular Volumes	Warranted	90%
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%. Existing traffic volumes fulfill 90% of the required 100%. There are no recorded vehicle collisions at this intersection from June 2005 through to June 2006, the last year for which collision data is available. There are no sight restrictions at this intersection. According to the results above, this intersection does not meet the minimum requirements of the Provincial Warrant.

Staff however believes it would be beneficial to install an all-way stop control at the intersection of Melville Avenue and Hawker Road. The warrant requires a combined total of 120 vehicles and pedestrians to cross the major roadway of Melville Avenue from the minor roadway of Hawker Road. Staff recorded a total of 108 vehicles and pedestrians crossing Melville Avenue from Hawker Road, 12 vehicles/pedestrians below the criteria in the All-Way Stop Warrant. Since the additional 12 vehicles/pedestrians required to fulfill the warrant could be met at anytime, it would

be beneficial to install an all-way stop control at the intersection of Melville Avenue and Hawker Road.

Relationship to Vaughan Vision 2020

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 all-way stop control be installed at the intersection of Melville Avenue and Hawker Road.

Attachments

1. Location Map

Report prepared by:

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Mike Dokman, Supervisor Traffic Engineering, Ext. 3118

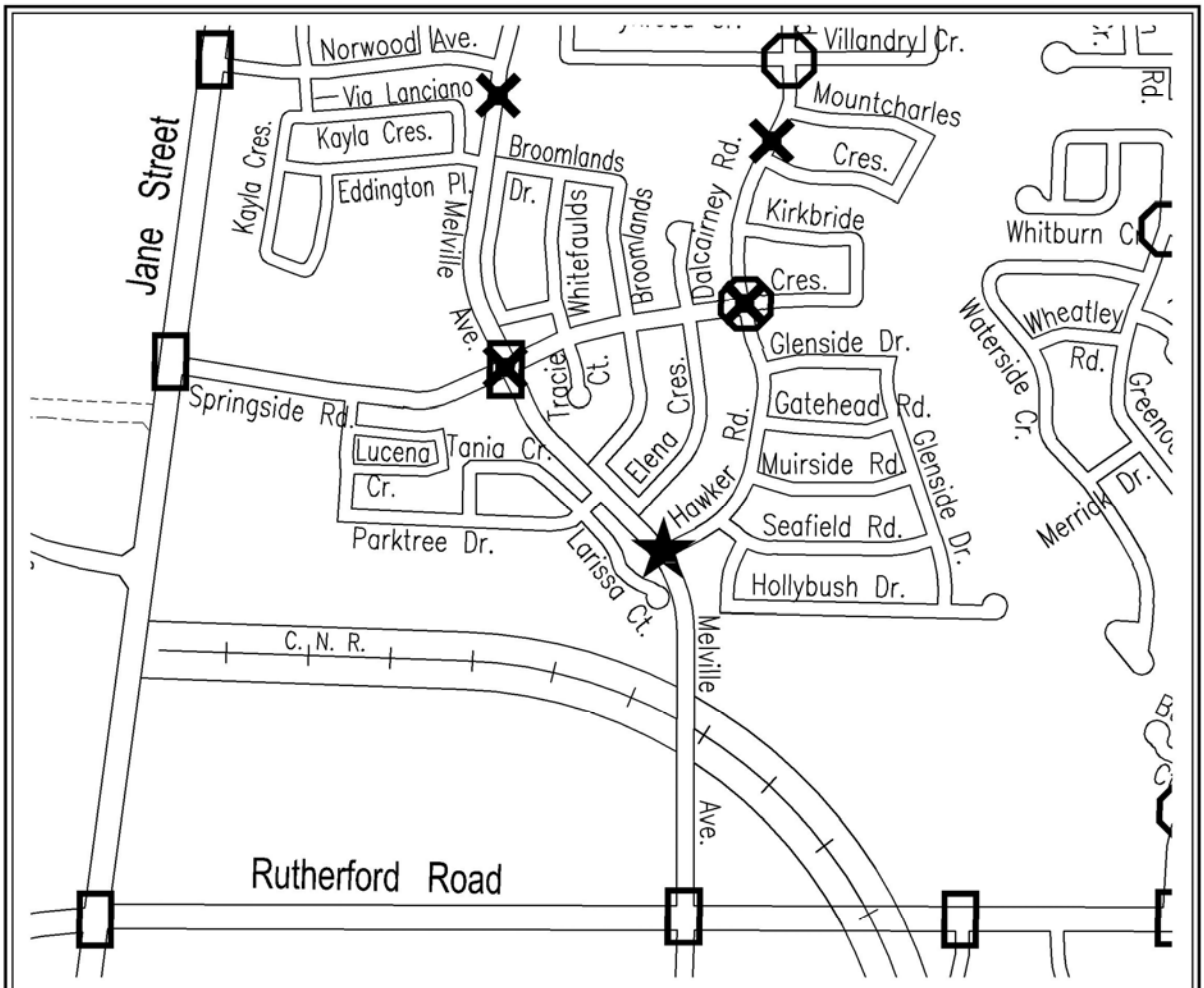
Respectfully submitted,

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

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

PT:mc

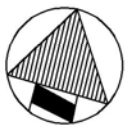
ATTACHMENT No. 1



MELVILLE AVENUE and HAWKER ROAD
PROPOSED ALL - WAY STOP CONTROL

LEGEND

- ★ INTERSECTION UNDER REVIEW
- ▯ EXISTING TRAFFIC SIGNALS
- ⯃ EXISTING ALL–WAY STOP CONTROL
- ✕ EXISTING SCHOOL CROSSING GUARD



NOT TO SCALE

CITY OF VAUGHAN – ENGINEERING DEPARTMENT

DRAFTSPERSON: SMM

Drawing name: R:\ENGDRAFT\$TRAFFIC\Peter Trinh\Melville Hawker.dwg