

COMMITTEE OF THE WHOLE – NOVEMBER 15, 2011

ALL-WAY STOP CONTROL REVIEW THOMAS COOK AVENUE AND LEBOVIC CAMPUS DRIVE WARD 4

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 Thomas Cook Avenue and Lebovic Campus Drive.

Contribution to Sustainability

Not Applicable.

Economic Impact

Sufficient funding for installation of the all-way stop signs and pavement markings (stop bars) has been included in the approved 2011 Operating Budget. The on-going costs to maintain the signs and pavement markings would be incorporated in future year Operating Budgets.

Communications Plan

Engineering Services staff will advise area residents and Nellie McClung Public School of the outcome of Council's decision in this matter.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Thomas Cook Avenue and Lebovic Campus Drive, in response to a resident's request.

Background - Analysis and Options

Staff carried out a review of the traffic activity at the intersection of Thomas Cook Avenue and Lebovic Campus Drive.

Thomas Cook Avenue is a minor collector roadway with a 23.0 metre right-of-way and an 11.5 metre pavement width. Lebovic Campus Drive is a major collector roadway with a 26.0 metre right-of-way and a 14.0 metre pavement width. The intersection of Thomas Cook Avenue and Lebovic Campus Drive is a three-leg intersection with the existing stop control on Lebovic Campus Drive. An existing school crossing guard assists students crossing the intersection on the east and north sides. The area is shown in Attachment No.1.

Staff conducted a turning movement count on September 29, 2011 at this intersection. The study was conducted during the peak traffic periods of 7:00 a.m. to 9:00 a.m. and 3:00 p.m. to 6:00 p.m. Staff also reviewed accident records for 2010 and sight lines at the approaches to the intersection. The data collected was compared to the Provincial Warrant for All-way Stop Control with the following results:

- Warrant 1 – Minimum Vehicular Volumes Warranted 216%
- Warrant 2 – Accident Hazard Warranted 25%
- Warrant 3 – Sight Restriction Warranted 0%

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. As shown above, existing traffic volumes exceed Warrant #1 requirements. There was 1 recorded vehicle collision at this intersection in the past 12 month period. There are no sight restrictions at this intersection. As the information above indicates, this intersection meets the minimum requirements of the Provincial Warrant for All-way Stop Control.

Staff have contacted the Principal of Nellie McClung Public School, who supports the proposed all-way stop control. The proposed all-way stop would also benefit both vehicular and pedestrian movements to/from the school.

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommended all-way stop will improve traffic flow for both drivers and pedestrians at the intersection, thus enhancing community design.

Regional Implications

Not Applicable.

Conclusion

It is recommended that an all-way stop control be installed at the intersection of Thomas Cook Avenue and Lebovic Campus Drive as the minimum requirement of the Provincial Warrant for All-Way Stop Control is met.

Attachments

1. Location Map.

Report prepared by:

David Fan, Traffic Analyst, Ext 8444
 Mike Dokman, Supervisor, Traffic Engineering, Ext. 8745

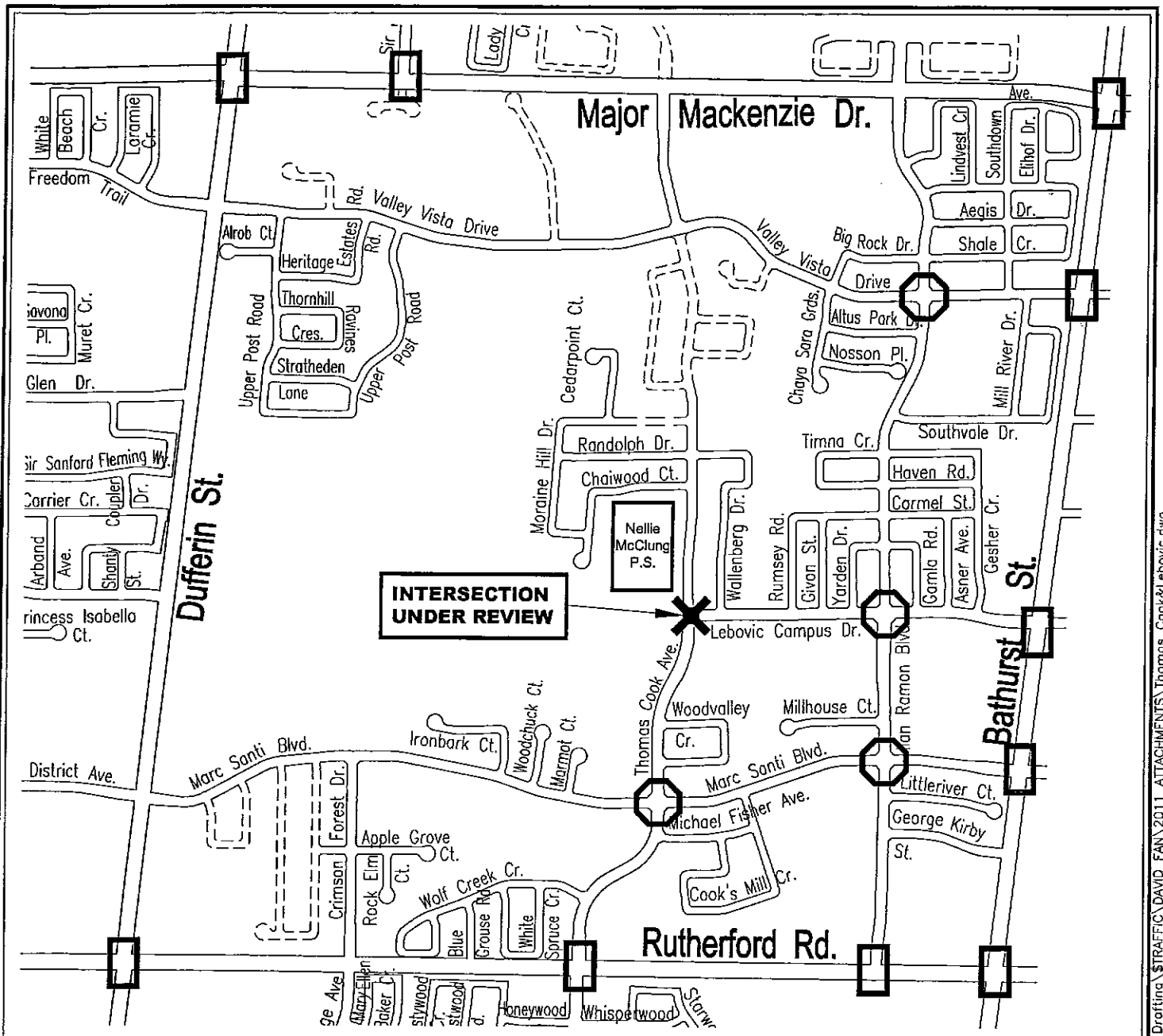
Respectfully submitted,

Paul Jankowski, P. Eng.
 Commissioner of Engineering and Public Works

Jack Graziosi, P. Eng., M. Eng.
 Director of Engineering Services




DF:mc

ATTACHMENT No. 1



ALL-WAY STOP CONTROL REVIEW THOMAS COOK AVENUE AND LEBOVIC CAMPUS DRIVE

LEGEND

-  EXISTING SCHOOL CROSSING GUARD
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL



NOT TO SCALE