

COMMITTEE OF THE WHOLE – FEBRUARY 6, 2006

**THORNHILL WOODS DRIVE AT COLTRANE DRIVE/THORNHILL WOODS PUBLIC
ELEMENTARY SCHOOL ACCESS
ALL-WAY STOP CONTROL AND 'NO STOPPING' PROHIBITION REVIEW**

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. The installation of an all-way stop control at the intersection of Thornhill Woods Drive Coltrane Drive/Thornhill Woods Public Elementary School Access; and
2. The installation of 'No Stopping' prohibitions with the time periods of 8:00 am to 9:30 am and 3:00 pm to 4:30 pm, Monday to Friday, September 1st to June 30th on the west side of Thornhill Woods Drive from Autumn Hill Boulevard to Coltrane Drive.

Economic Impact

The cost to install the all-way stop control signs, pavement markings and 'No Stopping' prohibitions will be an initial impact on the 2006 Operating Budget. The on-going costs to maintain the signs and pavement markings would be an impact to future Operating Budgets.

Purpose

To review the feasibility of implementing an all-way stop control at Thornhill Woods Drive and Coltrane Drive/Thornhill Woods Public Elementary School access and 'No Stopping' prohibitions on the west side of Thornhill Woods Drive from Autumn Hill Boulevard to Coltrane Drive.

Background - Analysis and Options

A request was received from the Principal of the elementary school to review the traffic activity at the intersection of Thornhill Woods Drive and Coltrane Drive/Thornhill Woods Public Elementary School access. Thornhill Woods Drive is a feeder roadway with a 23.0 meter right-of-way. Coltrane Drive is a local roadway with a 17.5 meter right-of-way. The speed limit on Thornhill Woods Drive is 40 km/h and 50 km/h on Coltrane Drive. The existing stop controls are located on Coltrane Drive and the school's access (driveway entrance). See Attachment No.1 for the area network. Sidewalks are either existing or proposed for installation on both sides of Thornhill Woods Drive in this area.

A turning movement count was conducted on Tuesday, December 13, 2005 at the intersection of Thornhill Woods Drive and Coltrane Drive/Thornhill Woods Public Elementary School access 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 study, the weather was cold and clear, with a temperature of -15 degrees Celsius. The data collected was compared to the Provincial Warrant for All-way Stop Control with the following results:

Warrant 1 – Minimum Vehicular Volumes	Warranted 100%
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 100% or more. There are no vehicle collisions at this intersection susceptible to prevention by an all-way stop control over the last twelve-month period. There are no site restrictions at this intersection. According to the above results, an all-way stop control is warranted at the intersection of Thornhill Woods Drive and Coltrane Drive/Thornhill Woods Public Elementary School access.

A request from a resident was received to review the parking activity in the vicinity of Thornhill Woods Public Elementary School. A parking review was conducted on Tuesday, December 13, 2005 during the time periods of 7:00 am to 9:00 am, and from 3:00 pm to 6:00 pm. There were several vehicles parked on both sides of the roadway in front of Thornhill Woods Public Elementary School, during the time periods of 8:30 am to 9:00 am and 3:30 pm to 4:00 pm.

Thornhill Woods Drive has a road width of 11.5 meters. When vehicles are parked on both sides of the roadway, the available travel width is reduced to about 6 meters between the vehicles. There is a concern with small children crossing in between parked vehicles on the west side of the roadway. Also, when vehicles are parked on both sides of Thornhill Woods Drive this impacts emergency and other service vehicles movement in front of the school.

The installation of a 'No Stopping' prohibition on the west side of Thornhill Woods Drive across from Thornhill Woods Public Elementary School will still provide for ample parking spaces on the east side for parents and residents, while still allowing emergency and other service vehicles movement in front of the school.

Relationship to Vaughan Vision 2007

This traffic study is consistent with Vaughan Vision 2007 as to identify and implement innovative traffic management alternatives to improve general traffic safety (1.1.3).

This report is consistent with the priorities previously set by Council and the necessary resources have been allocated and approved.

Conclusion

Based on staff's review, it is recommended that an all-way stop control be installed at the intersection of Thornhill Woods Drive and Coltrane Drive/Thornhill Woods Public Elementary School access and that 'No Stopping' Prohibitions with the time periods, 8:00 am to 9:30 am and 3:00 pm to 4:30 pm, Monday to Friday, September 1st to June 30th, be installed on the west side of Thornhill Woods Drive from Autumn Hill Boulevard to Coltrane Drive.

Attachments

1. Location Map

Report prepared by:

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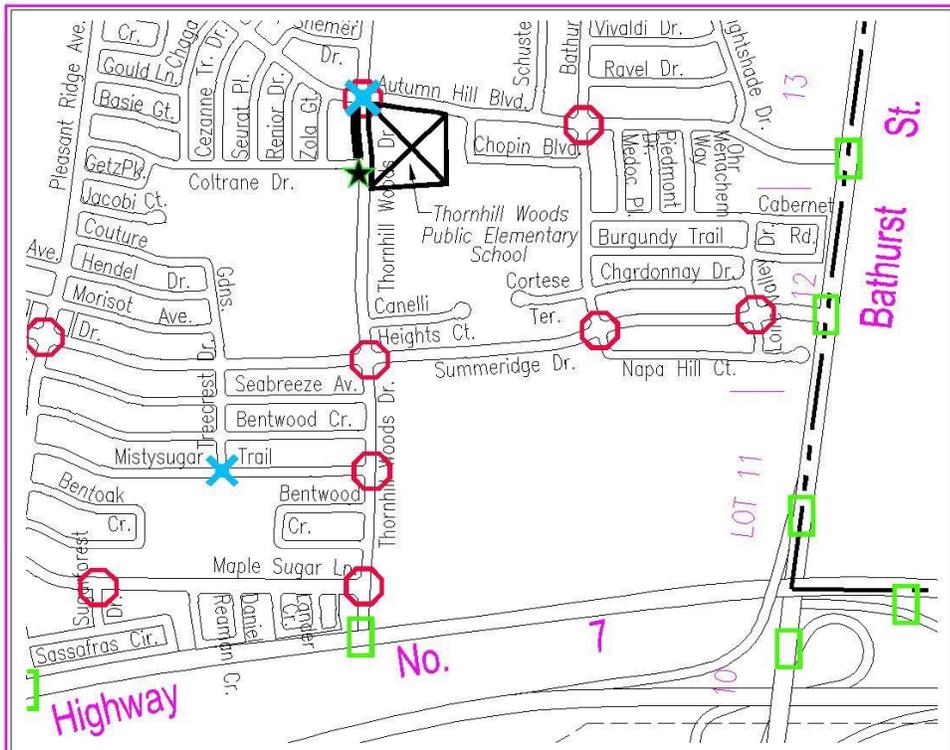
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services

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ATTACHMENT No. 1



THORNHILL WOODS DRIVE PROPOSED 'NO STOPPING' PROHIBITIONS AND ALL-WAY STOP CONTROL

LEGEND

-  PROPOSED 'NO STOPPING' PROHIBITIONS
-  PROPOSED ALL-WAY STOP CONTROL
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL
-  EXISTING SUPERVISED SCHOOL CROSSING
-  THORNHILL WOODS PUBLIC ELEMENTARY SCHOOL
-  NOT TO SCALE

