

COMMITTEE OF THE WHOLE – OCTOBER 11, 2005

STOP SIGNS IN THE VICINITY OF ST. ANDREW'S SCHOOL PROPOSED ALL-WAY STOP CONTROLS

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That an all-way stop control not be installed at any of the following four intersections: Sonoma Boulevard and Castillian Drive, Montebello Avenue and Century Grove Boulevard/Amelynn Crescent, Montebello Avenue and Amelynn Crescent (west), and Forest Fountain Drive and Royal Pine Drive; and
2. That By-Law 1-96, the Consolidated Parking By-Law, be amended to add a 'No Stopping' prohibition from 8:00 a.m. to 9:00 a.m., and from 3:00 p.m. to 4:00 p.m., Monday to Friday, on the south side of Montebello Avenue between Century Grove Boulevard and Forest Fountain Drive.

Economic Impact

The cost to install the stopping prohibition signs is an initial impact to the Operating Budget, and the cost to maintain/replace the signs would be a future budget impact.

Purpose

To review the feasibility of implementing all-way stop controls at four intersections in the vicinity of St. Andrew's Catholic School, in response to direction from Council.

Background - Analysis and Options

At its meeting on June 27, 2005 Council directed:

"...that appropriate staff conduct studies to determine the appropriateness of installing stop signs at the following intersections in the general vicinity of St. Andrew's Catholic School: Castillian Drive & Sonoma Boulevard, Century Grove & Montebello Avenue, Amelynn Crescent & Montebello Avenue and Royal Pine Drive and Forest Fountain Drive."

Sonoma Boulevard is a two lane primary feeder roadway with a 23.0 metre right-of-way, Forest Fountain Drive is a local primary roadway with a 20.0 metre right-of-way, and all other subject streets are local residential roadways with a 17.5 metre right-of-way. The existing speed limit on all streets is a statutory 50 km/h, except on Forest Fountain Drive in front of St. Andrew's Catholic School, which is posted with a reduced 40 km/h speed limit. The area is shown on Attachment No. 1.

Turning movement counts were conducted on Thursday, July 14, 2005 at the subject intersections during peak travel periods. The traffic counts were conducted from 7:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 6:00 p.m. The collected traffic volumes compared to the Provincial Warrant for All-Way Stop Control for each intersection and are as shown below:

Sonoma Boulevard and Castillian Drive

- | | |
|---|---------------|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted 18% |
| • Warrant 2 – Accident Hazard | Warranted 0% |
| • Warrant 3 – Sight Restriction | Warranted 0% |

Forest Fountain Drive and Royal Pine Drive

- Warrant 1 – Minimum Vehicular Volumes Warranted 58%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

Montebello Avenue and Century Grove Boulevard/Amelynn Crescent

- Warrant 1 – Minimum Vehicular Volumes Warranted 21%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

Montebello Avenue and Amelynn Crescent (west)

- Warrant 1 – Minimum Vehicular Volumes Warranted 5%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

For an all-way stop control to be warranted, one or more of the 3 warrants must be satisfied 100% or more. The results of all turning movement counts do not meet the requirements of the Provincial Warrant for All-Way Stop Control. The above results reflect the highest peak traffic hour at these intersections. Side street traffic volumes are low at all the studied intersections.

There were no sight distance restrictions noted at these intersections, and there were zero reported vehicle collisions in the past year.

In addition, staff received requests for parking prohibitions on Montebello Avenue, wherein safety concerns were raised that vehicles are parking on both sides of Montebello Avenue during school start and dismissal times. Staff conducted observations on Tuesday, September 13, 2005, on Montebello Avenue in response to requests for parking prohibitions during school times. As a result of observations, staff recommend a new 'No Stopping' prohibition on the south side of Montebello Avenue from 8:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 4:00 p.m., Monday to Friday to alleviate the raised concerns.

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.

Conclusion

Based on staff's review, it is recommended:

1. That an all-way stop control not be installed at any of the following four intersections – Sonoma Boulevard and Castillian Drive, Montebello Avenue and Century Grove Boulevard/Amelynn Crescent, Montebello Avenue and Amelynn Crescent (west), and Forest Fountain Drive and Royal Pine Drive.
2. That By-Law 1-96, the Consolidated Parking By-Law, be amended to add a 'No Stopping' prohibition from 8:00 a.m. to 9:00 a.m., and from 3:00 p.m. to 4:00 p.m., Monday to Friday, on the south side of Montebello Avenue between Century Grove Boulevard and Forest Fountain Drive.

Attachments

1. Location Map

Report prepared by

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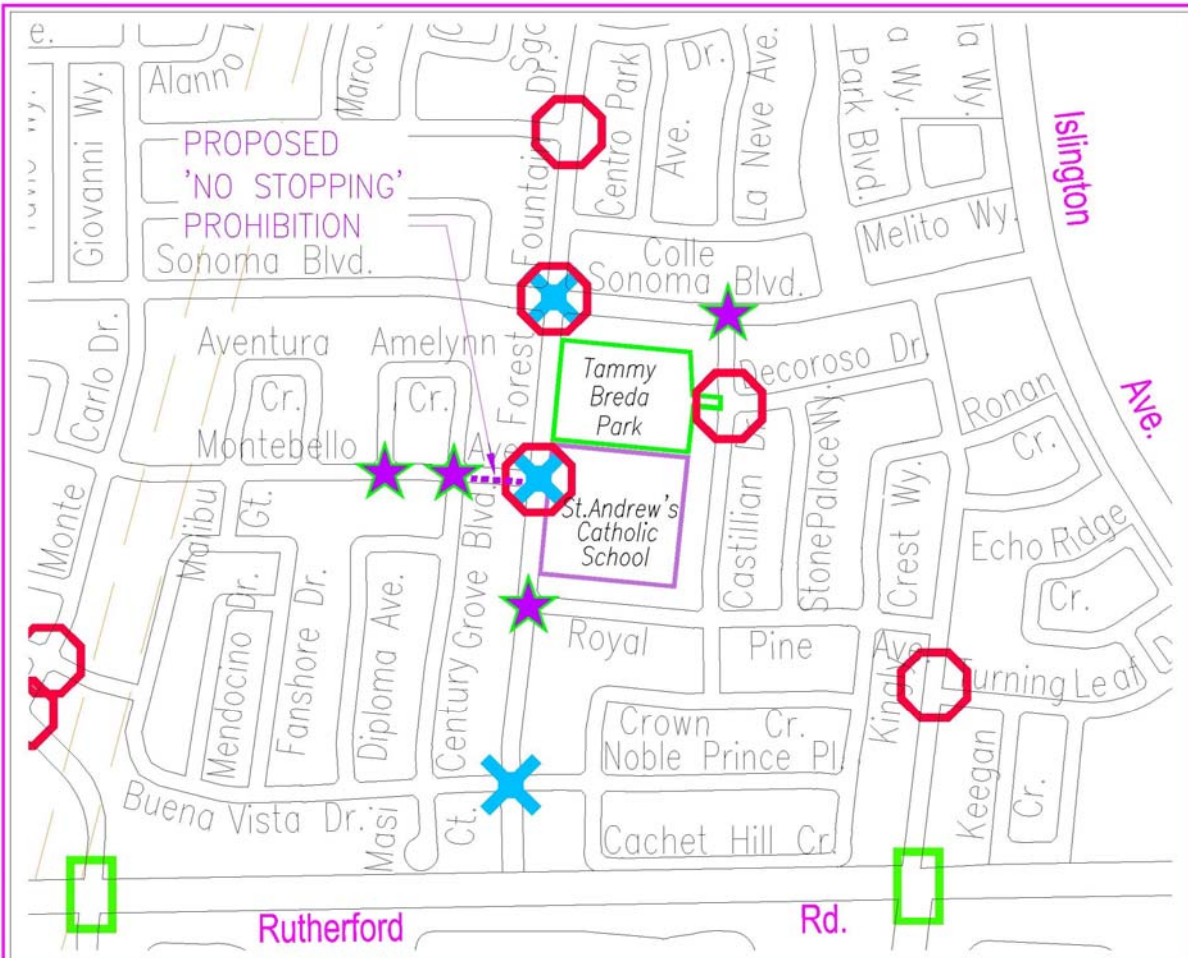
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services






:MR

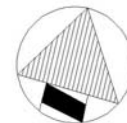
ATTACHMENT No. 1



STOP SIGNS IN THE VICINITY OF ST. ANDREW'S SCHOOL PROPOSED ALL-WAY STOP CONTROLS

LEGEND

-  PROPOSED ALL-WAY STOP CONTROL
-  PROPOSED "NO STOPPING" PROHIBITION
8:00–9:00 a.m., 3:00–4:00 p.m., MONDAY–FRIDAY
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALLWAY STOP CONTROL
-  EXISTING SUPERVISED SCHOOL CROSSING



NOT TO SCALE