

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 6, 2014

Item 24, Report No. 18, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on May 6, 2014.

**24 ALL-WAY STOP CONTROL REVIEW
THOMAS COOK AVENUE AND WOLF CREEK CRESCENT/RUTHERFORD PLAZA ACCESS
WARD 4**

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Commissioner of Engineering and Public Works and the Director of Engineering Services, dated April 29, 2014:

Recommendation

The Commissioner of Engineering and Public Works and the Director of Engineering Services recommends:

1. That Council enact a By-law to install an all-way stop control at the intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access.

Contribution to Sustainability

Not Applicable.

Economic Impact

The capital costs associated with the installation of the all-way stop signs is estimated to be \$500.00, and has been included in the approved 2014 Operating Budget. The on-going costs to maintain the signs and pavement markings (stop bars), is estimated to be \$150.00 per annum, and will be incorporated in future year Operating Budgets.

Communications Plan

Staff will advise area residents and businesses 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 Wolf Creek Crescent/Rutherford Plaza Access.

Background - Analysis and Options

A review of the existing operations of the intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access was conducted

Staff carried out a review of the traffic activity at the intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access.

Thomas Cook Avenue is a minor collector roadway with a 23.0 metre right-of-way and an 11.5 metre pavement width. Wolf Creek Crescent is classified as a local roadway with a 17.5 metre right-of-way and an 8.0 metre pavement width. The intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access is a four-leg intersection with the existing stop controls on Wolf Creek Crescent and the Rutherford Plaza Access. The Rutherford Plaza features a variety of uses, including a pharmacy drug store, a day care facility, a nail salon and a restaurant. The area is shown in Attachment No.1.

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The curve in the roadway on Thomas Cook Avenue results in sightline issues at the Rutherford Plaza Access

Staff conducted a turning movement count on September 25, 2013 and sightline inspection on March 3, 2014 at this intersection. The turning movement count was conducted during the peak traffic periods of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m. Staff also reviewed the accident records for 2012 and 2013, 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	65%
•Warrant 2 – Accident Hazard	Warranted	0%
•Warrant 3 – Sight Restriction	Warranted	100%

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. As shown above, existing traffic volumes fulfill only 65% of the Warrant #1 requirements. There were zero recorded vehicle collisions at this intersection in 2012 and 2013. To date, this is the latest collision data available from York Regional Police. However, the curve in the roadway on Thomas Cook Avenue creates sightline issues for the east approach at this intersection.

All-way stop controls are recommended at the intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access to address the sightline issues

The Geometric Design Guide for Canadian roads requires a minimum 65 metres of unobstructed visibility for motorists entering an intersection from the minor roadway. Visibility at this intersection is 62m, which is below the required 65 metres. As the information above indicates, this intersection meets the minimum requirements of the Provincial Warrant for All-way Stop Control.

The proposed all-way stop would also benefit both vehicular and pedestrian movements in the area.

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 promoting community safety, health and wellness.

Regional Implications

Not Applicable.

Conclusion

It is recommended that an all-way stop control be installed at the intersection of Thomas Cook Avenue and Wolf Creek Crescent/Rutherford Plaza Access as the minimum requirement of the Provincial Warrant for All-way Stop Control is met.

Attachments

1. Location Map

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(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)