

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF APRIL 19, 2017

Item 22, Report No. 13, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on April 19, 2017.

**22 ALL-WAY STOP CONTROL REVIEW POETRY DRIVE AND CHATFIELD DRIVE
WARD 3**

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Deputy City Manager of Public Works and the Director of Transportation Services, Parks and Forestry Operations, dated April 4, 2017:

Recommendation

The Deputy City Manager of Public Works and the Director of Transportation Services, Parks and Forestry Operations recommend:

1. That a By-law be enacted to amend By-law 284-94, the Consolidated Traffic By-law, to add an all-way stop control at the intersection of Poetry Drive and Chatfield Drive.

Contribution to Sustainability

This report contributes to the goals and objectives within Green Directions Vaughan, The City's Community Sustainability and Environmental Master Plan, specifically:

Goal 3: To ensure that Vaughan is a city that is easy to get around with a low environmental impact.

Objective 3.2: To develop and sustain a network of roads that supports efficient and accessible public and private transit.

Economic Impact

The capital cost associated with the installation of the all-way stop signs is estimated to be \$700.00, and has been included in the approved 2017 Operating Budget. The on-going cost 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 the area residents, York Region District School Board, York Catholic District School Board, and York Regional Police 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 Poetry Drive and Chatfield Drive.

Background - Analysis and Options

A review of traffic operations at the intersection of Poetry Drive and Chatfield Drive was conducted.

A review of traffic activity was conducted at the intersection of Poetry Drive and Chatfield Drive on November 29, 2016 to determine the feasibility of implementing an all-way stop control.

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Poetry Drive is a two-lane, north-south roadway and Chatfield Drive is a two-lane, east-west roadway. Both Poetry Drive and Chatfield Drive are minor collectors with a 23.0 metre right-of-way (11.5 metre pavement width). The statutory speed limit on both roadways is 50 km/h.

This intersection is a three-leg intersection with existing stop-control on Chatfield Drive. The intersection is in close proximity to the three schools below:

- Guardian Angels Catholic Elementary School, located at the north-west corner of Chatfield Drive and Lawford Road.
- Tommy Douglas Secondary School, located at the north-west corner of Major Mackenzie Drive West and Lawford Road.
- Johnny Lombardi Public School, located at the south-west corner of Lawford Road and Stanton Avenue.

A map of the area is shown in Attachment No. 1.

An All-way Stop Control is recommended at the intersection of Poetry Drive and Chatfield Drive as it is anticipated that future growth in the community and increase in school traffic will meet the minimum threshold for the Provincial Warrant within the next three to six months.

Turning movement counts were conducted on two separate dates in May and November, 2016 at the intersection of Poetry Drive and Chatfield Drive. 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. The 2015 and 2016 collision records and sightlines at the approaches to the intersection were also assessed. The data collected was compared to the Provincial Warrant for All-way Stop Controls with the following results:

	May 2016	November 2016
Warrant 1 – Minimum Vehicular Volumes	84%	98%
Warrant 2 – Accident Hazard	0%	0%
Warrant 3 – Sight Restriction	0%	0%

All-way stop controls are recommended when one of the above warrants is satisfied to 100 percent or more. As shown above, the existing Minimum Vehicular Volumes, the Accident Hazard and the Sight Restriction are not satisfied at this intersection.

The existing traffic volumes fulfill 98% of the required 100% Minimum Vehicular Warrant. The traffic data collected shows a steady growth in peak hour traffic in 2016. With close proximity to the referenced schools and the projected development in the area, it is anticipated that the additional vehicles required to fulfill the warrant could be met at any time. Therefore, it would be beneficial to install the all-way stop control at this time.

Relationship to Term of Council Service Excellence Strategy Map (2014-2018)

In consideration of the strategic priorities related to the Term of Council Service Excellence Strategy Map (2014 – 2018), this report is consistent with the following Term of Council Priorities:

- Improve municipal network;
- Continue to develop transit, cycling and pedestrian options to get around the City; and
- Continue to ensure the safety and well-being of citizens.

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Regional Implications

Not Applicable.

Conclusion

The implementation of an all-way stop control at this location would benefit both vehicular and pedestrian movements in the area. With close proximity to the two Elementary Schools and one Secondary School and the growth in development in the area, it is recommended that an all-way stop control be implemented at the intersection of Poetry Drive and Chatfield Drive.

Attachment

1. Location Map

Report prepared by:

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Margie Chung, Manager Traffic Engineering, Ext. 6173

(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.)