

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 17, 2016

Item 6, Report No. 21, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on May 17, 2016.

**6 ALL-WAY STOP CONTROL REVIEW
DUFFERIN HILL DRIVE AND MARATHON AVENUE / BENJAMIN HOOD CRESCENT
WARD 4**

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 May 3, 2016:

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 Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent.

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 costs associated with the installation of the all-way stop signs is estimated to be \$500.00, and has been included in the approved 2016 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 the area residents 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 Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent.

Background - Analysis and Options

A review of traffic operations at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent was conducted.

A review of traffic activity was conducted at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent on November 3, 2015, to determine the feasibility of implementing an all-way stop control.

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Dufferin Hill Drive is a two-lane, east-west minor collector roadway with a 23.0 metre right-of-way (11.5 metre pavement width). Marathon Avenue and Benjamin Hood Crescent are two-lane, north-south local roadways with a 17.5 metre right-of-way (8.5metre pavement width).

The intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent is a four-leg intersection with stop-controlled on Marathon Avenue / Benjamin Hood Crescent. A map of the area is shown in Attachment No. 1.

The existing traffic volumes at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent, exceed the Provincial Warrant for All-way Stop Controls.

A turning movement count was conducted on November 3, 2015, at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent. 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 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:

- | | | |
|---|-----------|------|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted | 112% |
| • Warrant 2 – Accident Hazard | Warranted | 0% |
| • Warrant 3 – Sight Restriction | Warranted | 0% |

All-way Stop Controls are recommended at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent.

All-way stop controls are recommended when one of the above warrants meets 100 percent. As shown above, the existing traffic volumes exceed the Minimum Vehicular Warrant No. 1 requirements. As such, All-way Stop Controls are recommended at this location. Zero vehicle collisions were recorded at this intersection from 2014 to July 2015. To date, this is the latest collision data available from York Regional Police. There are no sight restrictions at this intersection.

With Forest Run Public School located on Forest Run Boulevard (north of Ten Oaks Boulevard) and North Hill Private School located at the southwest corner of Dufferin Hill Drive and Dufferin Street, the proposed all-way stop controls would benefit both vehicular and pedestrian movements in the area.

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

In consideration with the strategic priorities related to the Term of Council Service Excellence Strategy Map (2014 – 2018), the recommended all-way stop will improve traffic flow for both drivers and pedestrians at the intersection, thus improving the municipal network, and promoting community safety, health and wellness.

Regional Implications

Not Applicable.

Conclusion

It is recommended that an all-way stop control be implemented at the intersection of Dufferin Hill Drive and Marathon Avenue / Benjamin Hood Crescent, as the Provincial Warrant for all-way stop controls is met. The implementation of an all-way stop control at this location will enhance the level of safety of the intersection.

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Attachment

1. Location Map

Report prepared by:

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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.)