# COMMITTEE OF THE WHOLE - NOVEMBER 21, 2005

# CALDARI ROAD AND LOCKE STREET ALL-WAY STOP CONTROL REVIEW

### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

The installation of an all-way stop control at the intersection of Caldari Road and Locke Street.

### Economic Impact

The cost to install the all-way stop control signs and pavement markings will be an initial impact on the 2005 Capital 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 Caldari Road and Locke Street.

### **Background - Analysis and Options**

A request from a resident has been received to review the traffic activity at the intersection of Caldari Road and Locke Street. Caldari Road is an industrial roadway with a 23.0 meter right-of-way. Locke Street is a major collector roadway with a 28.5 meter right-of-way. The speed limit on both roadways is a statutory 50 km/h. (Refer to Attachment No. 1).

A turning movement count was conducted on Thursday, October 6, 2005 at the intersection of Caldari Road and Locke Street during the peak morning and afternoon time periods of 7:00 am to 9:00 am and 4:00 pm to 6:00 pm. 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 50%
Warrant 3 – Sight Restriction	Warranted 0%

All-way stop controls are recommended when one of the above warrants are satisfied 100% or more. There were two recorded vehicle collisions at this intersection susceptible to prevention by an all-way stop control over the last twelve-month period. There are no sight line restrictions at this intersection. According to the above results, an all-way stop control is warranted at the intersection of Caldari Road and Locke Street at this time.

A radar study was conducted on Wednesday, August 3, 2005 during the morning and afternoon peak hour time periods of 7:30 am to 9:00 am and 3:30 pm to 5:00 pm. The following is a summary of the results:

### AM Period

Northbound on Caldari Road	Average Speed – 48 km/h	85 <sup>th</sup> Percentile Speed – 56 km/h
Southbound on Caldari Road	Average Speed – 53 km/h	85 <sup>th</sup> Percentile Speed – 63 km/h

# PM Period

Northbound on Caldari Road	Average Speed – 52 km/h	85 <sup>th</sup> Percentile Speed – 61 km/h
Southbound on Caldari Road	Average Speed – 49 km/h	85 <sup>th</sup> Percentile Speed – 58 km/h

The collected speeds do not exceed the posted speed limit by 10 km/h. However, there were a few motorists exceeding the speed limit by more than 10 km/h. Staff will notify York Regional Police for strict enforcement of the 50 km/h speed limit on Caldari Road.

### 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 Caldari Road and Locke Street.

### **Attachments**

1. Location Street

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Respectfully submitted,

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ATTACHMENT No. 1

