

## COMMITTEE OF THE WHOLE – MAY 20, 2008

### EDGELEY BOULEVARD AND BASS PRO MILLS DRIVE TRAFFIC REVIEW

#### Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That this report be received for information;
2. That the required budget sheets be submitted for consideration in the 2009 Capital Budget process; and
3. That Engineering Services staff monitor the intersection in the Fall 2008 to determine the traffic signal warrant values and report to a Committee of the Whole meeting with this information.

#### Economic Impact

There are no economic impacts stemming from the recommendations of this report for the 2008 Budget Year. There will be future impacts on the 2009 Capital Budget for the installation of the traffic signals and Operating Budgets for the maintenance of the traffic signals.

#### Communications Plan

Staff will contact the area businesses on the outcome of Council's decision in this matter.

#### Purpose

To report on the feasibility to install traffic signals at the intersection of Edgeley Boulevard and Bass Pro Mills Drive.

#### Background - Analysis and Options

At its meeting on January 28, 2008, Council directed:

- “1. That staff be requested to investigate the need for and the feasibility of installing traffic lights at the intersection of Edgeley Boulevard and Bass Pro Mills Drive;
2. That staff report to a future Committee of the Whole meeting with respect to their findings in the Spring of 2008.”

Several business employees on Four Valley Drive expressed concerns regarding the intersection of Edgeley Boulevard and Bass Pro Mills Drive. Their concerns relate to the number of accidents and heavy traffic volumes, especially during the peak time periods.

Edgeley Boulevard is designed as a 26.0 metre collector road with an existing posted speed limit of 40 km/h. Bass Pro Mills Drive is designed as a 30.0 metre arterial road with an existing 50 km/h statutory speed limit. There is an existing all-way stop control at the intersection. Refer to Attachment No. 1.

Engineering Services staff conducted an intersection turning movement count at the intersection on March 27, 2008. The studied time periods were 7:00am to 9:00am, 11:00am to 2:00pm and 3:00pm to 6:00pm. On the day of the study the weather was clear and sunny. The results of the study is summarized below.

Warrant #1 – Minimum Vehicular Volumes		
Part A – All Approaches	-	95%
Part B – Minor Street Both Approaches	-	100%
Percentage Warrant (lowest of the two above)	-	95%
Warrant #2 – Delay to Cross Traffic		
Part A – Major Street Both Approaches	-	67%
Part B – Traffic Crossing Major Street	-	100%
Percentage Warrant (lowest of the two above)	-	67%
Warrant #3 – Accident Experience		
Part A – Reportable Accidents Correction by a Traffic Signal	-	70%
Part B – Adequate trial of less restrictive remedies	-	100%
Part C – Warrant 1 or Warrant satisfied 80% or more	-	100%
Warrant #4 – Combination Warrant		
Two Warrants Satisfied 80% for Traffic Signals	-	NO

Based on the above warrants, the Provincial Traffic Signal warrant would not be met as neither one warrant meets 100% or two warrants meet 80% or more. Warrant 1 is very close to fulfilling the first criterion and the accident experience has not been reduced with the installation of the all-way stop control. The area near the intersection on Edgeley Boulevard and Bass Pro Mills Drive is still being developed. It is anticipated that the traffic generated by the future developments would fulfill the requirements of the Provincial Traffic Signal warrant.

There are no approved funds in the 2008 Capital Budget for the installation of traffic signals at the intersection. Staff will include the required budget sheets for consideration in the 2009 Capital Budget. The approximate cost for the installation of traffic signals is \$125,000.

Staff will also monitor the intersection in the Fall 2008 to determine if warrant values have been met. A report will be submitted to a Committee of the Whole meeting to update the status of the traffic signal warrants.

**Relationship to Vaughan Vision 2020**

Enhance and Ensure Community Safety, Health & Wellness – To advocate for, protect and enhance community safety, health and wellness through education, design and enforcement.

This report is consistent with the priorities previously set by Council.

**Regional Implications**

Not Applicable.

**Conclusion**

Engineering Services staff recommend that the intersection be monitored in the Fall 2008 to determine if the traffic signal warrant values have been met. The required budget sheets will be prepared and submitted during the upcoming budget preparation process for consideration in the 2009 Capital Budget deliberations.

**Attachments**

1. Location Map

**Report prepared by**

Mike Dokman, Supervisor, Traffic Engineering, ext 3118

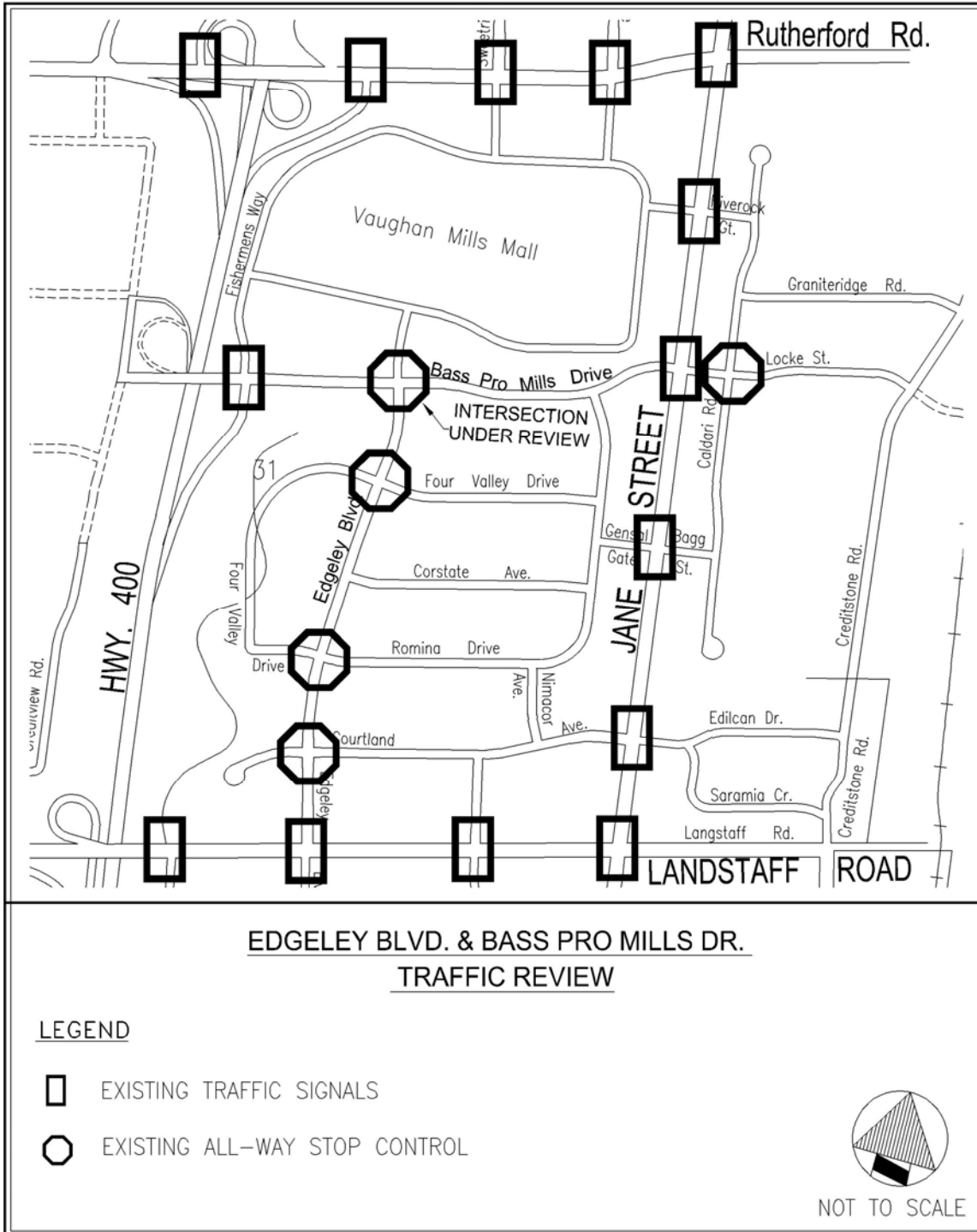
Respectfully submitted,

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

Mike Dokman, C.E.T.  
Supervisor, Traffic Engineering



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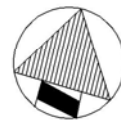
# ATTACHMENT No. 1



## EDGELEY BLVD. & BASS PRO MILLS DR. TRAFFIC REVIEW

### LEGEND

-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL



NOT TO SCALE

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