

COMMITTEE OF THE WHOLE - NOVEMBER 3, 2008

WESTON ROAD AND ROWNTREE DAIRY ROAD ADVANCED LEFT TURN PHASE

Recommendation

The Commissioner of Engineering and Public Works recommends:

That this report be received for information purposes.

Economic Impact

None.

Communications Plan

Engineering Services staff did contact the Region of York regarding this matter as the intersection of Weston Road and Rowntree Dairy road is under their jurisdiction.

Purpose

To work in conjunction with the Regional Municipality of York to determine if an advanced left turn phase is warranted for northbound vehicles on Weston Road turning left to proceed westbound on Rowntree Dairy Road.

Background - Analysis and Options

At it's meeting on June 23, 2008, Council directed:

- "2. That the City of Vaughan Engineering Department conduct the necessary review, in consultation with the Regional Municipality of York to review the possibility of an 'advanced green signal' at the intersection of Rowntree Dairy Road and Weston Road entering Auto Park Circle."**

The City of Vaughan Engineering Services Department requested the Regional Municipality of York to conduct the necessary review at this intersection. Two left turn studies were completed at this intersection on September 16th, 2008 between the peak hour times of 7:30 am to 9:00 am and 4:30 pm to 6:00 pm. Typically, a left turn advanced phase would be considered when 30% or more of left turn vehicles fail to perform a left turn movement during the allocated green time. Refer to Attachment No. 1.

The results of the studies indicated that all vehicles were able to complete a northbound left turn during the allocated green time. In addition, the Region has noted that the implementation of an advanced left turn phase at this location will result in less green time for the heavy through movements on Weston Road and will lead to increased congestion on the Weston Road Corridor. Refer to the Region of York's letter, Attachment No. 2.

Relationship to Vaughan Vision 2020

This traffic study is consistent with Vaughan Vision 2008 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.

Regional Implications

The Region of York has indicated that less green time for the north/south movements on Weston Road would lead to increased congestion on the Weston Road Corridor.

Conclusion

Based on staff's review in conjunction with the Regional Municipality of York, an advanced left turn phase at the intersection of Weston Road and Rowntree Dairy Road entering Auto Park Circle is not warranted.

Attachments

1. Location Map
2. Response letter received from the Regional Municipality of York.

Report prepared by:

Louis Wickline, Traffic Analyst, Ext. 3131
Mike Dokman, Supervisor Traffic Engineering, Ext. 3118

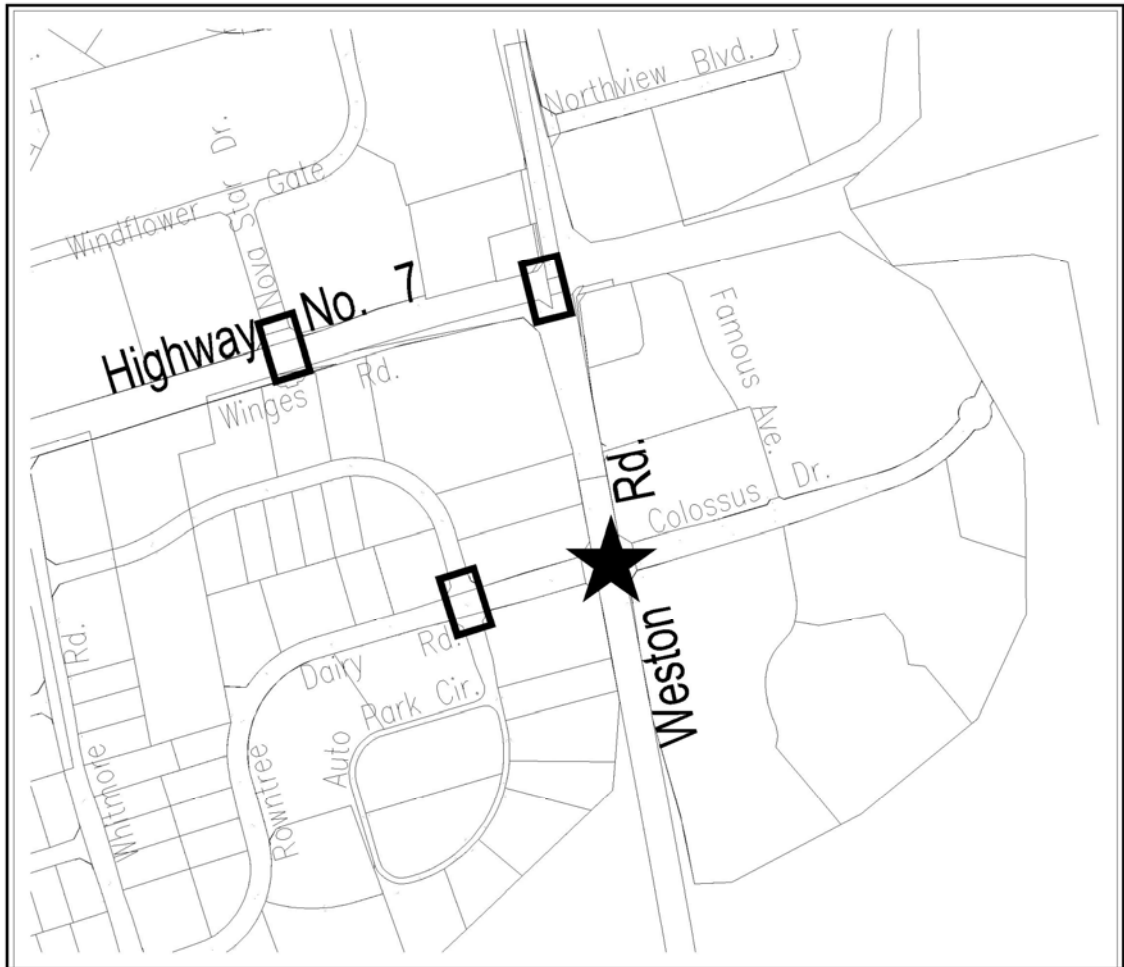
Respectfully submitted,

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

Debbie Korolnek, P. Eng.
Director of Engineering Services

LW:mc

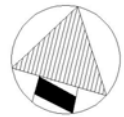
ATTACHMENT No. 1



WESTON RD & ROWNTREE DAIRY RD./COLOSSUS DR. TRAFFIC REVIEW

LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNALS



NOT TO SCALE

ATTACHMENT NO. 1



Transportation and Works Department

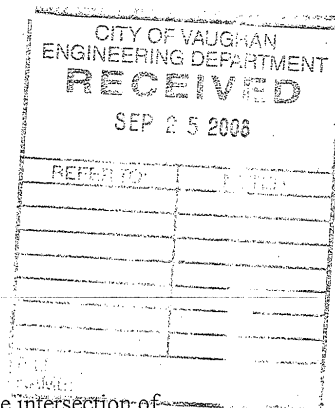
Roads Branch
Fax: 905-895-7735

September 19, 2008

Mr. Louis Wickline
Engineering Department
The City of Vaughan
2141 Major Mackenzie Drive
Vaughan, ON L6A 1T1

Dear Mr. Wickline:

**Re: Weston Road and Rowntree Dairy Road / Colossus Road
The Regional Municipality of York
Request for Westbound Left Turn**



This letter is in response to your concerns dated June 23, 2008 regarding the intersection of Weston Road and Rowntree Dairy Road / Colossus Road.

To determine if left turn phases are warranted the following left turn studies were conducted:

- WBLT between 07:30 and 09:00 on September 16, 2008.
- WBLT between 16:30 and 18:00 on September 16, 2008.

Normally the Region will consider implementing a left turn advance phase when 30 % or more of left turn vehicles fail to perform a left turn movement during the allocated green time. We do take into consideration that up to two vehicles can perform a left turn at the end of the green phase, during the amber period. For all of the studied periods we observed that all left turn vehicles were successful in performing a left turn movement during the allocated green time. Therefore, at this time, a WBLT phase is not warranted. A WBLT phase will result in less green time for the heavy through movements on Weston Road and will lead to increased congestion and gridlock on the Weston Road corridor.

Thank you

Sincerely,

Media K. Liya, B. Sc. C.E.T.
Operations Technologist

ML/dbs

T14-ST - Signal Timings\Rd56\Correspondence\2008\18 September 08 Concerns Weston & Rowntree.doc