COMMITTEE OF THE WHOLE – SEPTEMBER 18, 2006

MARTIN GROVE ROAD – PEDESTRIAN SIGNAL LOCATION

Recommendation

The Commissioner of Engineering and Public Works recommends:

That this report be received for information purposes.

Economic Impact

The cost to install the pedestrian signal as proposed will have no additional impact on the approved 2006 Capital and Operating Budgets. Any additional costs to relocate the signal would be extra to the 2006 Capital Budget.

Purpose

To review the feasibility of relocating the pedestrian signal from its current placement on the north side of the Martin Grove Road and Bellona Street intersection to the south side of the Martin Grove Road and Jackman Crescent (south) intersection.

Background - Analysis and Options

The Engineering Services Department has received comments that the pedestrian signal on Martin Grove Road has not been installed in the correct location. The location was proposed near Jackman Crescent (south intersection) in the 2005 Capital Budget process.

At its meeting of September 13, 2004 Council directed:

> **"Staff to investigate the need for and feasibility and costs of installing a stop sign control and pedestrian crossing on Martin Grove Road, between Bellona Street and Jackman Crescent, at the exit/entrance of Father Ermanno Bulfon Community Centre parking lot."**

Please refer to Attachment No. 2 for the September 13, 2004 Council Extract.

Further, at its meeting of January 24, 2005 Council approved:

> **"1. That an all-way stop control not be installed on Martin Grove Road at the Father Ermanno Bulfon Community Centre access; and**
>
> **2. That this report regarding the installation of a pedestrian signal on Martin Grove Road be received and that funding for the project be considered as a part of the 2005 Capital Budget deliberations should Council wish to approve the installation of a pedestrian signal."**

Please refer to Attachment No. 3. for the January 24, 2005 Council Extract.

Martin Grove Road is a four-lane collector. Father Ermanno Bulfon Park and Community Centre, a Church and St. Clement Catholic School are located east of Martin Grove Road. The pedestrian signal is currently being installed on the north side of the Martin Grove Road and Bellona Street intersection. Please refer to Attachment No. 1 for the area network.

In early August 2006, a concern was brought to the Engineering Services Department's attention that the current placement of the pedestrian signal did not match to the location indicated in the

2005 Capital Budget process. During the design process staff considered the location of the power source, any existing features/amentities and other factors including the existing walkway to the park located just north of Bellona Street. The proposed location for the pedestrian signal could also be utilized during evening hours and weekends for the Church and the elementary school as well as the Father Ermanno Bulfon Community Centre. Construction proceeded on this basis in Summer 2006 at the current location north of Bellona Street.

In order to confirm the current location, staff conducted a pedestrian study on Tuesday, September 12, 2006 during the time periods of 7:30 to 9:00 am, 11:30 am to 1:00 pm and 3:30 to 5:00 pm. This study would provide an indication of where pedestrians were crossing Martin Grove Road between Jackman Crescent and Bellona Street. The section between Jackman Crescent and Bellona Street was split in middle, section 1 was between Bellona Street and the Community Centre access and section 2 was from the Community Centre access to Jackman Crescent. The results of the study are provided in the chart below.

Crossing Area	**Time Period**	**Number of Pedestrians**
Section 1	7:30 to 9:00 am	1 adult, 4 children
	11:30 am to 1:00 pm	6 adults
	3:30 to 5:00 pm	6 adults, 4 children
Section 2	7:30 to 9:00 am	3 adults, 1 child
	11:30 am to 1:00 pm	0 adults, 0 children
	3:30 to 5:00 pm	0 adults, 2 children

Based on the study, there were a total of 21 pedestrians crossing between Bellona Street and the Community Centre access and a total of 6 pedestrians crossing between the Community Centre access to Jackman Crescent. Conclusions indicate a higher pedestrian utilization in the southern section of the study area.

In order for the pedestrian signal to be relocated the following work is required:

- Removal of the existing works completed at Bellona Street.
- Preparation of the new contract design drawing for the relocation to Jackman Crescent.
- Underground works (conduit, wiring, restoration, additional handwells for wiring connections from the power source) from the power service location (same location as per Powerstream Inc.).
- Underground works (conduit, handwells, pole bases, wiring, restoration) at the south side of Jackman Crescent.
- Installation of all above ground equipment.
- Testing and inspection of the electrical equipment.

The contractor has estimated the cost for the removal of equipment from its current location to be $16,000.

To date, the cost for the work that has been completed is $28,000 and $8,000 for the purchase of the traffic signal controller/cabinet. The total budget for this project is $52,000.

The estimated cost to relocate the pedestrian signal to the Martin Grove Road and Jackman Crescent intersection is $20,000. The total cost for the project including removal and relocation would then be approximately $72,000 which exceeds the approved budget by $20,000.

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.

Conclusion

Based on the pedestrian study referenced above, it appears that the current signal location is appropriate. Relocation of the pedestrian signal, would require an increase of $20,000 in the 2006 Approved Capital Budget.

Attachments

1. Location Map
2. Council Extract – September 13, 2004
3. Council Extract – January 24, 2005

Report prepared by:

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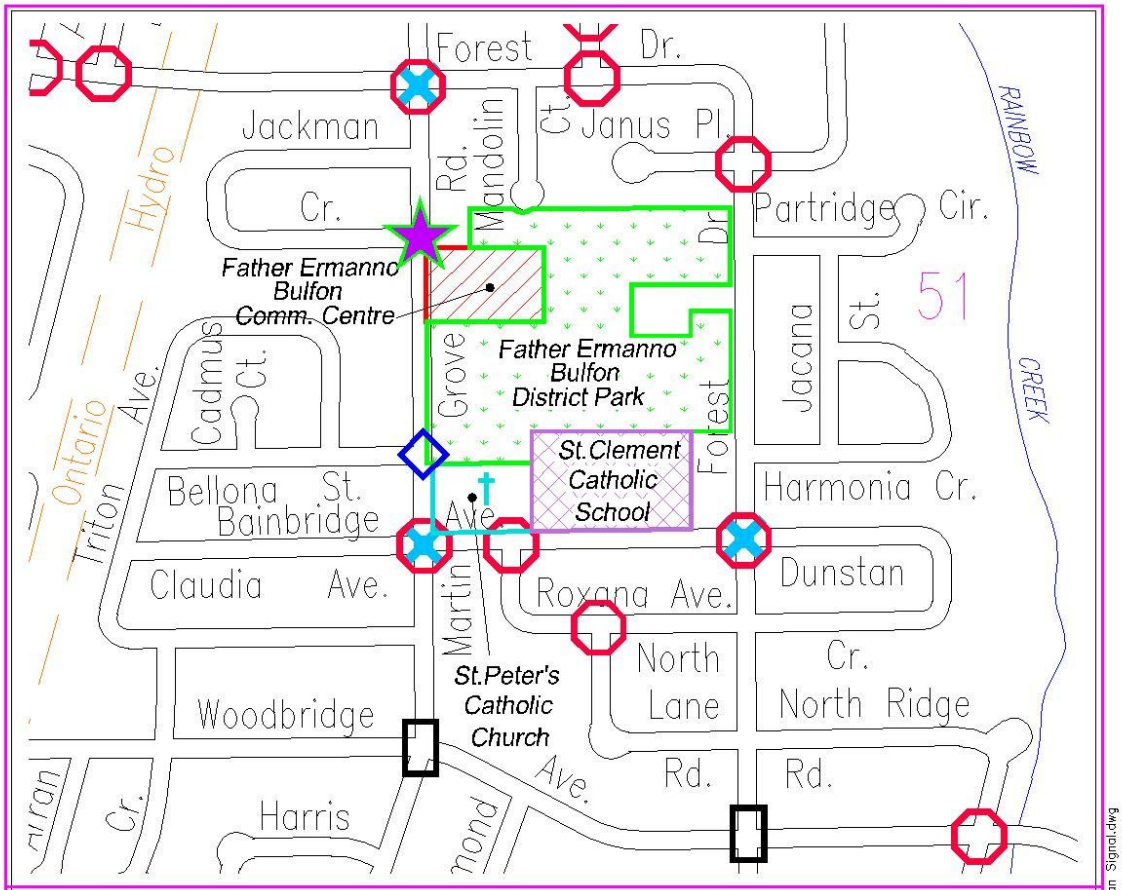
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services

ATTACHMENT No. 1



MARTIN GROVE ROAD
PEDESTRIAN SIGNAL

LEGEND

- ALTERNATE PEDESTRIAN SIGNAL LOCATION
- CURRENT PEDESTRIAN SIGNAL LOCATION
- EXISTING TRAFFIC SIGNALS
- EXISTING ALL-WAY STOP CONTROL
- EXISTING SUPERVISED SCHOOL CROSSING

NOT TO SCALE

CITY OF VAUGHAN – ENGINEERING DEPARTMENT

DRAFTSPERSON: E.K.

Drawing name: R:\ENGDRAFT\$TRANSPO\Mark R\Martin Grove Road Pedestrian Signal.dwg