

COMMITTEE OF THE WHOLE – SEPTEMBER 8, 2009

ALL-WAY STOP AT LA ROCCA AVENUE AND VELLORE AVENUE & LA ROCCA AVENUE AND INTERMEZZO DRIVE WARD 3

Recommendation

The Commissioner of Engineering and Public Works recommends:

1. That an all-way stop control not be installed at the intersection of La Rocca Avenue and Vellore Avenue as the Provincial All-way Stop Warrant is not met, and
2. That an all-way stop control not be installed at the intersection of La Rocca Avenue and Intermezzo Drive as the Provincial All-way Stop Warrant is not met.

Contribution to Sustainability

Not Applicable.

Economic Impact

Not Applicable.

Communications Plan

The local Councillor will advise the residents in the immediate area.

Purpose

To review the feasibility of implementing all-way stop controls at the intersections of La Rocca Avenue and Vellore Avenue and at La Rocca Avenue and Intermezzo Drive, in response to a petition submitted by area residents.

Background - Analysis and Options

At its meeting on May 26, 2009, Council directed:

“That Traffic Engineering staff review the feasibility of installing an all-way stop at the intersection of La Rocca Avenue and Vellore Avenue and La Rocca Avenue and Intermezzo Drive as a result of the petition received.”

La Rocca Avenue is a local roadway with a 20.0 metre right-of-way and a pavement width of 9.0 metres. Vellore Avenue is a minor primary roadway with a 23.0 metre right-of-way and a pavement width of 11.5 metres. Intermezzo Drive is a local roadway with a 17.5 metre right-of-way and a pavement width of 8.0 metres. The current stop controls at these intersections are on Vellore Drive and Intermezzo Drive respectively. The area is shown in Attachment No.1.

The residents have expressed concerns that the intersections are dangerous and are requesting that Council approve the all-way stops. Refer to Attachment No.2 for the petition.

La Rocca Avenue and Vellore Avenue study

Staff conducted a turning movement count on Wednesday, June 24, 2009 at the intersection of La Rocca Avenue and Vellore Avenue. This intersection is a three approach 'T' intersection. The study was conducted during the peak morning and afternoon time periods of 7:00 am to 9:00 am and 4:00 pm to 6:00 pm. On the day of the traffic study the weather was sunny. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

- Warrant 1 – Minimum Vehicular Volumes Warranted 55%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. Existing traffic volumes fulfill 55% of the required 100% on the warrant. There are no recorded vehicle collisions at this intersection. There are no sight restrictions at this intersection. During the highest peak time period, there were only 66 vehicles from the minor street (Vellore Avenue). The minimum requirement is 120 vehicles. According to the results above, this intersection does not meet the minimum requirements of the Provincial Warrant for All-way Stop Control.

La Rocca Avenue and Intermezzo Drive study

Staff conducted a turning movement count on Thursday, June 18, 2009 at the intersection of La Rocca Avenue and Intermezzo Drive. This intersection is a four approach 'X' intersection. The study was conducted during the peak morning and afternoon time periods of 7:00 am to 9:00 am and 4:00 pm to 6:00 pm. On the day of the traffic study the weather was sunny. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

- Warrant 1 – Minimum Vehicular Volumes Warranted 37%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. Existing traffic volumes fulfill 37% of the required 100% on the warrant. There are no recorded vehicle collisions at this intersection. There are no sight restrictions at this intersection. During the highest peak time period, there were only 44 vehicles from the minor streets (Intermezzo Drive/Capera Avenue). The minimum requirement is 120 vehicles. According to the results above, this intersection does not meet the minimum requirements of the Provincial Warrant for All-way Stop Control.

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of this report will assist in:

- Pursue Excellence in Service Delivery;
- Enhance and Ensure Community Safety, Health & Wellness; and
- Lead and Promote Environmental Sustainability.

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

Regional Implications

Not Applicable.

Conclusion

Based on Engineering Services staff's review, it is recommended that an all-way stop control not be installed at the intersections of La Rocca Avenue and Vellore Avenue, or La Rocca Avenue and Intermezzo Drive.

Attachments

1. Location Map
2. Petition – Council Members Only

Report prepared by:

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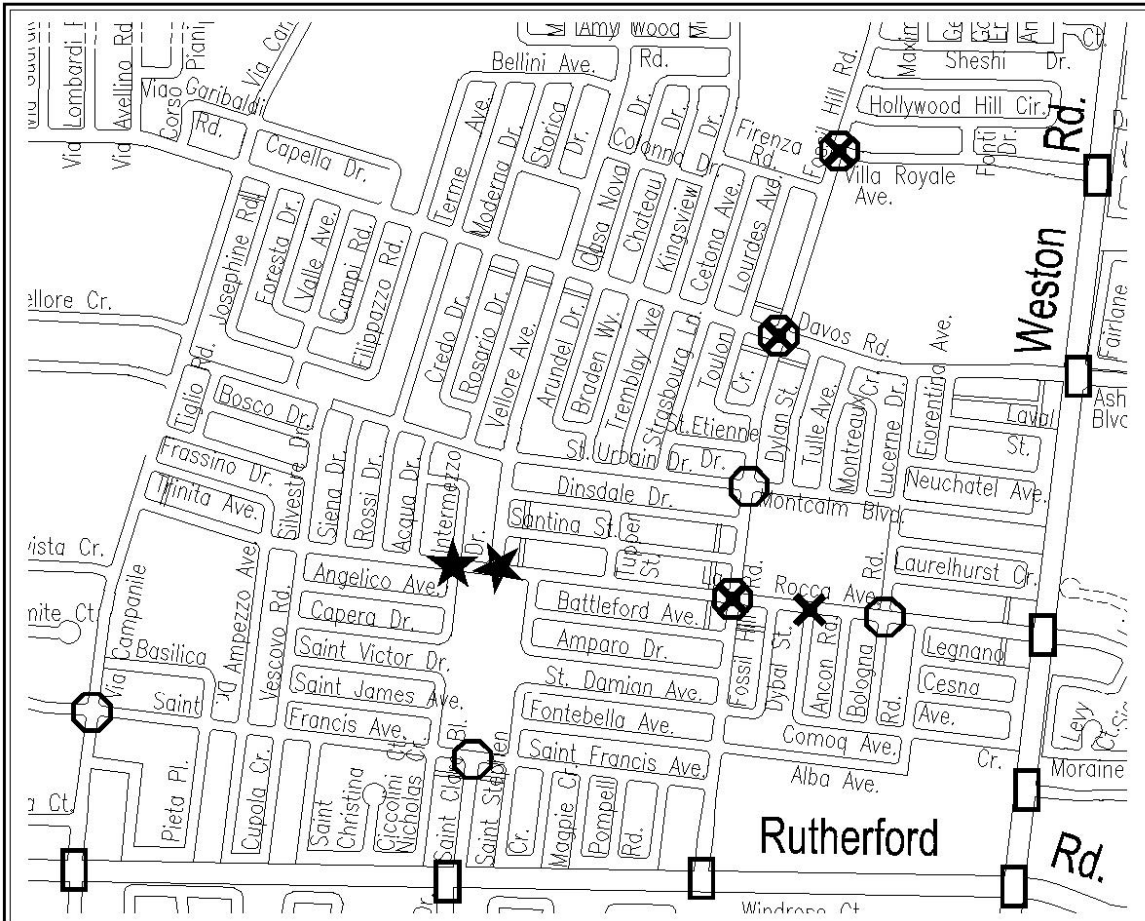
Respectfully submitted,

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

Jack Graziosi, P. Eng.
Director of Engineering Services





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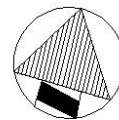
ATTACHMENT No. 1



PROPOSED ALL-WAY STOP CONTROLS
LA ROCCA AVE. & VELLORE AVE.
LA ROCCA AVE. & INTERMEZZO DR.

LEGEND

-  PROPOSED ALL-WAY STOP CONTROLS
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL
-  EXISTING SCHOOL CROSSING GUARD



NOT TO SCALE

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