



Report to: General Committee

Date Report Authored: October 5, 2011

SUBJECT: Renfrew Drive and Hooper Road Proposed All-way Stop Control

PREPARED BY: Audrey Basham, Engineering Technologist, ext. 4020
David Porretta, Traffic Operations Supervisor, ext. 2040

RECOMMENDATION:

- 1) That the report entitled “Renfrew Drive and Hooper Road Proposed All-way Stop Control”, be received;
- 2) And that Schedule 12 of Traffic By-law 106-71 be amended to include the intersection of Renfrew Drive and Hooper Road;
- 3) And that a letter of credit funded from the applicant in the amount of \$1,800, be deposited into Operations account #083-5399-8402-005 for the purpose of installing the necessary signs and pavement markings;
- 4) And that the Operations Department be directed to maintain the signs at the subject locations;
- 5) And that York Region Police be requested to enforce the all-way stop control upon installation of these signs and passing of the By-law;
- 6) And that staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

This report recommends implementing an all-way stop control (AWSC) at the intersection of Renfrew Drive and Hooper Road to improve traffic safety and efficiency at the intersection.

BACKGROUND:

In August 2010, the Ontario Municipal Board (OMB) approved the re-zoning application for the People’s Christian Academy (PCA) at 245 Renfrew Drive. A traffic study was submitted with the application, identifying a need for an AWSC at the intersection of Renfrew Drive and Hooper Road. The application was approved with a \$1,800 letter of credit secured for this purpose. The school was subsequently open in September 2011.

Both Renfrew Drive and Hooper Road are industrial collector roads with a posted speed limit of 50 km/h and are located in the Allstate Business Park just west of Woodbine Avenue (see Attachment “A”).

DISCUSSION:

An AWSC may be considered where provincial warrant guidelines are met, as outlined in Ontario Traffic Manual, Book 5. The warrants consider the total vehicular volume and the volume distribution at the intersection during the busiest one-hour period of the day. Operations Department conducted an AWSC analysis on a weekday between 8:00am – 9:00am, which is the busiest hour of the day. The warrant analysis results are as follows:

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 Vehicular Volume (Minor Street Only)		
Minimum Requirement	Actual	Criteria Met?	Minimum Requirement	Actual	Criteria Met?
350	856	YES	35%	44%	YES

An AWSC is warranted when both Warrants 1 and 2 are satisfied. As shown above, the intersection does meet Provincial guidelines. Therefore, the Operations Department recommends that an AWSC be provided at the subject location.

Once implemented, it is expected that the AWSC will improve traffic safety at the intersection by removing the right-of-way from Renfrew Drive.

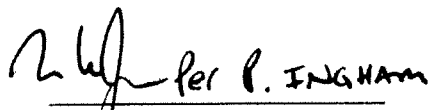
FINANCIAL CONSIDERATIONS:

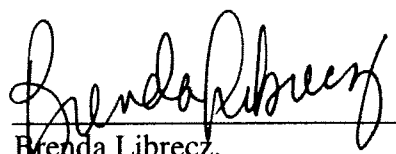
The cost of labour and materials to implement the signs and pavement markings will be paid for through the applicant's letter of credit in the amount of \$1,800. On-going maintenance costs for this installation will be included in future Operations Department operating budgets.

ALIGNMENT WITH STRATEGIC PRIORITIES:

This report aligns with the community safety component of transportation/transit strategic priority.

RECOMMENDED BY:


Paul Ingham,
Director, Operations


Brenda Librecz,
Commissioner, Community & Fire Services

ATTACHMENTS;

Attachment A – Location Map

Attachment B – By-law Amendment

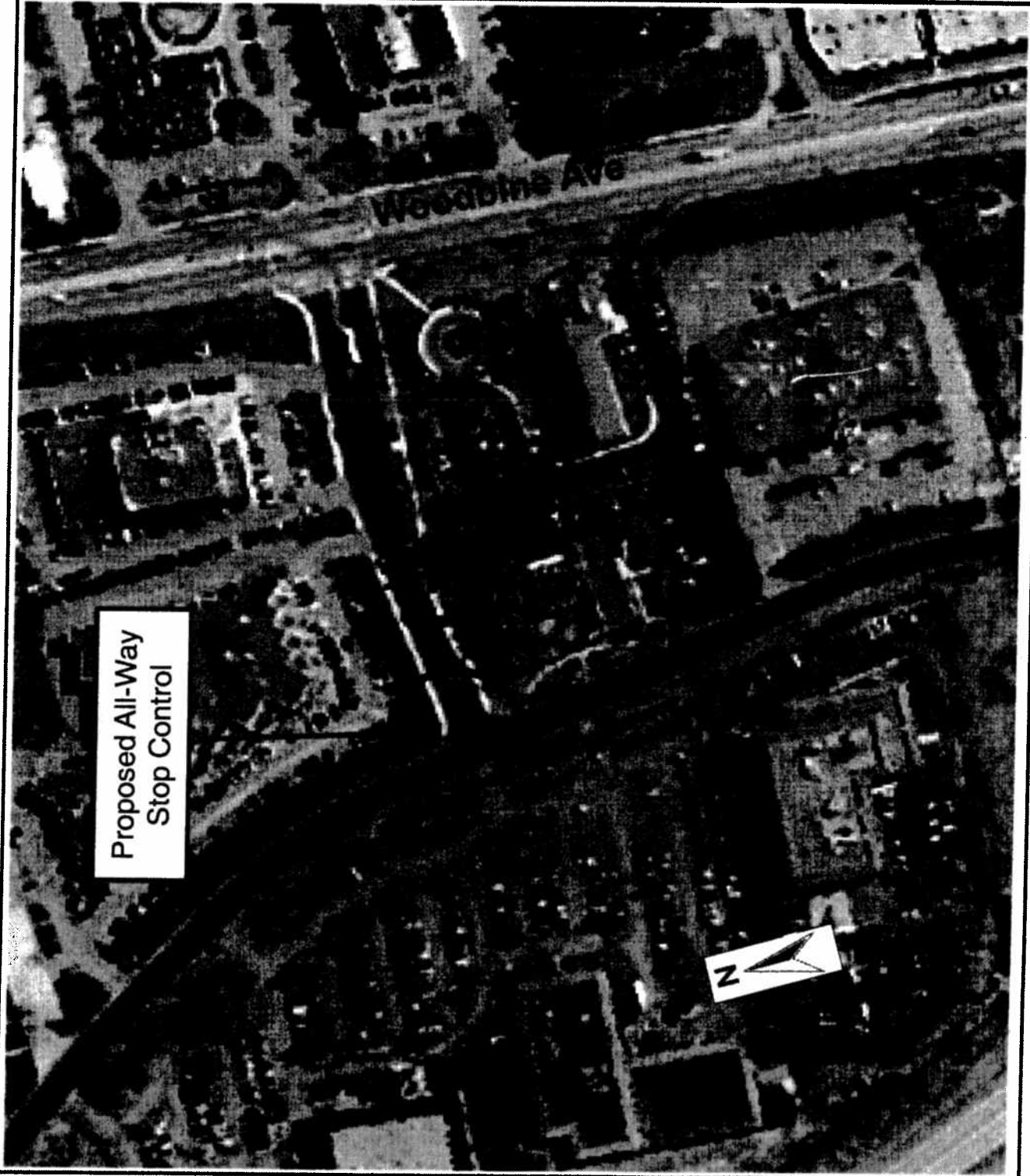


Renfrew Drive at
Hooper Road
Proposed All-way
Stop Control



Traffic Operations
November 2011

ATTACHMENT A





THE CORPORATION OF THE TOWN OF MARKHAM

BY-LAW NUMBER _____

TO AMEND BY-LAW 106-71

BE IT ENACTED BY THE COUNCIL OF THE CORPORATION OF THE TOWN OF MARKHAM THAT BY-LAW NUMBER 106-71 BE AND THE SAME IS HEREBY AMENDED AS FOLLOWS:

1. By adding to Schedule 12 - Compulsory Stops - at the following named intersection:

COLUMN 1	COLUMN 2	COLUMN 3
<u>INTERSECTION</u>	<u>FACING TRAFFIC</u>	<u>LOCATION OF STOP SIGN</u>
Renfrew Drive & Hooper Road	Northbound on Renfrew Drive	East side of Renfrew Drive, on the south side Hooper Road
Renfrew Drive & Hooper Road	Southbound on Renfrew Drive	West side of Renfrew Drive, on the north side of Hooper Road

2. The By-Law shall come into force and effect upon receiving the third reading by the Council of the Town of Markham and also when authorized signs have been erected.

READ A FIRST, SECOND AND THIRD TIME AND PASSED THIS _____

DAY OF _____, 2011.

KIMBERLEY KITTINGHAM
TOWN CLERK

FRANK SCARPITTI
MAYOR