



Report to: Development Services Committee

Meeting Date: September 26, 2023

SUBJECT: Mingay Avenue at Hammersly Boulevard Proposed All-way Stop (Ward 6)

PREPARED BY: David Porretta, Manager, Traffic Engineering, ext. 2040

RECOMMENDATION:

- 1) That the report entitled “Mingay Avenue at Hammersly Boulevard Proposed All-way Stop (Ward 6)” be received; and
- 2) That Schedule 12 of Traffic By-law 106-71, pertaining to compulsory stops, be amended to include all approaches to the intersection of Mingay Avenue at Hammersly Boulevard; and
- 3) That the Operations Department be directed to install the appropriate signs and pavement markings at the subject location; and
- 4) That the cost of materials and installation for the traffic signs and pavement markings in the amount of \$1,000 be funded from capital project #083-5350-23112-005 (Traffic Operational Improvements); and
- 5) That York Regional Police be requested to enforce the all-way stop control upon installation of these stop signs and passing of the By-law; and further
- 6) 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 at the intersection of Mingay Avenue and Hammersly Boulevard, to improve intersection operations and safety.

BACKGROUND:

In spring 2023, Traffic Engineering staff received a resident request to implement an all-way stop at the intersection. This intersection of Mingay Avenue at Hammersly Boulevard has been the subject of periodic monitoring, due to the frequency of inquiries received from area residents over the past five years.

The subject intersection is located in the Wismer Commons residential community, bounded by Major Mackenzie Drive to the north, Bur Oak Avenue to the south, McCowan Road to the west, and Markham Road to the east. Mingay Avenue is classified as a 2-lane minor collector street. Hammersly Boulevard is a two-lane local residential street. The intersection has a four-leg configuration, with stop control currently assigned to Hammersly Boulevard, thereby giving traffic on Mingay Avenue right-of-way. Donald Cousens Public School is located to the southeast of the subject intersection. A map of the intersection and surrounding area is provided in Attachment “A”.

DISCUSSION:

All-way stop control warrant analysis was conducted at the subject intersection

All-way stop control at an intersection may be considered where the minimum provincial warrant criteria are satisfied, as outlined by the Ministry of Transportation of Ontario (MTO). Over the past 5 years, the intersection did not satisfy conditions necessary to justify an all-way stop.

In May 2023, Traffic Engineering staff reassessed the intersection, to determine if an all-way stop was warranted. The warrant analysis results are as follows:

Figure 1: All-way Stop Warrant Results

Warrant Criteria	Criteria Met? (Y/N)
Volume exceeds 200 vehicles per hour for each of the highest 4 hours of the day	YES
Volume exceeds 75 units per hour (vehicles + pedestrians) on the “minor” street for each of the same 4 hours	YES
At least 25% of total volume is attributed to the “minor” street and pedestrian crossings	YES

For an all-way stop to be considered, all three warrant criteria must be met. Results of the study show that this requirement has been satisfied.

All-way stop control at the intersection is recommended

As the provincial warrant criteria have been met, staff recommend that all-way stop control be implemented at the subject intersection. With the volume and pattern of movements at this intersection, all-way stop control will improve the intersection operations and safety by requiring all vehicles to come to a complete stop at the intersection. Also, the all-way stop control will introduce a new and safer opportunity for pedestrians to cross Mingay Avenue, where the pedestrian crossing volume is high.

If Council endorses the staff recommendation to implement an all-way stop control at the subject intersection, Schedule 12 of Traffic By-law 106-71, pertaining to compulsory stops, must be amended to reflect the change in traffic control at the intersection (Attachment “B”).

FINANCIAL CONSIDERATIONS

The cost of materials and installation for the traffic signs and pavement markings in the amount not exceeding \$1,000 will be funded from capital project #083-5350-23112-005 (Traffic Operational Improvements). On-going maintenance costs will be managed within the Operations Department’s existing operating budget.

HUMAN RESOURCES CONSIDERATIONS

The recommendations identified within this report align with the strategic focus for a Safe & Sustainable Community, through the ongoing management of the City’s transportation network.

ALIGNMENT WITH STRATEGIC PRIORITIES:

Operations Department has been circulated this report, and acknowledges the operating impacts associated with the additional regulatory signs and pavement markings.

BUSINESS UNITS CONSULTED AND AFFECTED:

Operations Department has been circulated this report, and acknowledges the operating impacts associated with the additional regulatory signs and pavement markings.

RECOMMENDED BY:

Frank Clarizio, P.Eng.
Director, Engineering

Arvin Prasad, MPA, RPP, MCIP
Commissioner, Development Services

ATTACHMENTS:

Attachment "A" – Map: Mingay Avenue @ Hammersly Boulevard Proposed All-way Stop

Attachment "B" – All-way Stop Control By-Law Amendment