

Traffic Control – Windstar Avenue at Edna Street

Presented To:	Operations Committee
Meeting Date:	December 16, 2024
Type:	Routine Management Reports
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Recommended by:	General Manager of Growth and Infrastructure

Report Summary

This report provides a recommendation regarding traffic control at the intersection of Windstar Avenue at Edna Street.

Resolution

THAT the City of Greater Sudbury controls the intersection of Windstar Avenue at Edna Street with a yield sign facing southbound traffic on Windstar Avenue;

AND THAT the City of Greater Sudbury controls the intersection of Windstar Avenue at Ruby Street with a yield sign facing northbound traffic on Windstar Avenue;

AND THAT the City of Greater Sudbury directs staff to prepare a by-law to amend Traffic and Parking By-Law 2010-1 in the City of Greater Sudbury to implement the recommended changes outlined in the report entitled “Traffic Control – Windstar Avenue at Edna Street”, from the General Manager of Growth and Infrastructure, presented at the Operations Committee meeting on December 16, 2024.

Relationship to the Strategic Plan, Health Impact Assessment and Climate Action Plans

This report refers to operational matters.

Financial Implications

Recommendations of this report may be carried out within the existing approved operating budget and staffing resources.

Background

As part of the ongoing development of the Marquis Subdivision, the City has assumed Windstar Avenue and Ruby Street as public roads shown in Figure 1 below. The assumption of these roads has created two new “T” intersections which require traffic control and converts one existing “T” intersection into a 4-way intersection.

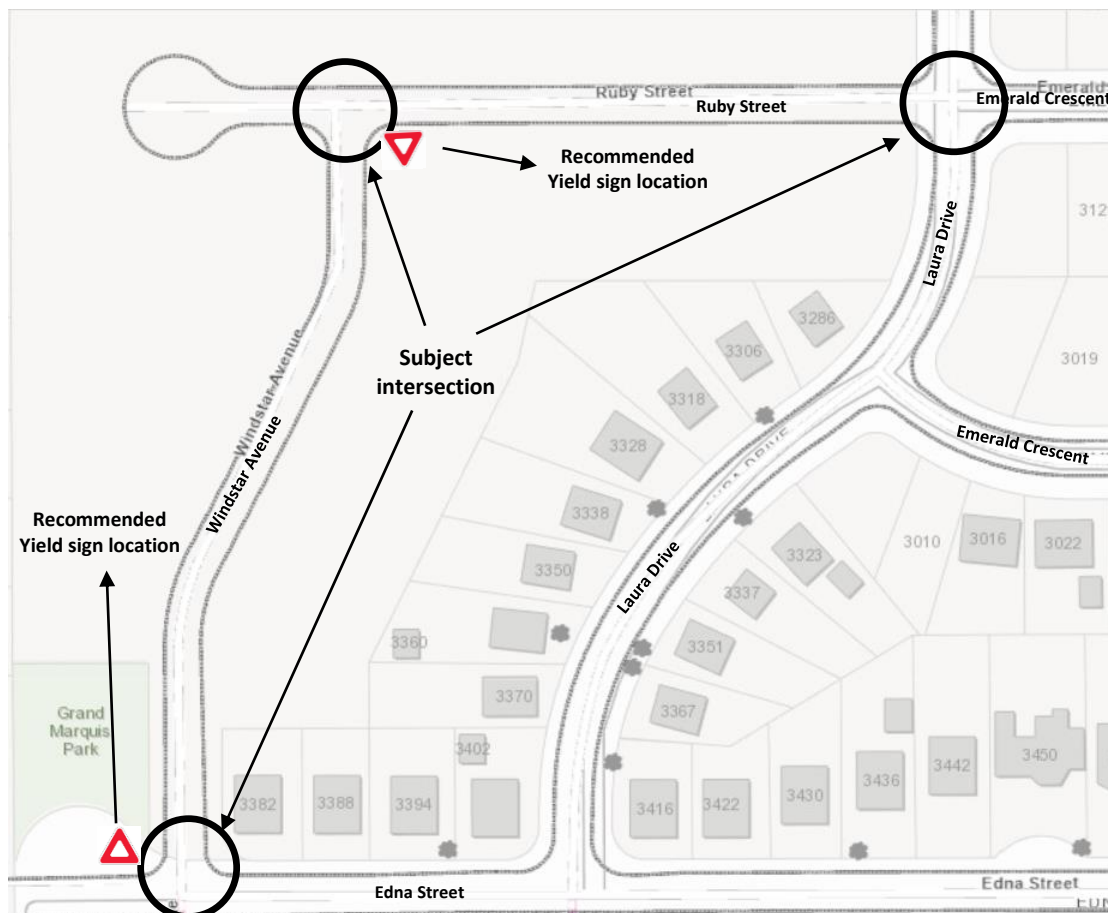


Figure 1: Intersection of Windstar Avenue at Edna Street, Windsor Avenue at Ruby Street and Ruby Street at Laura Drive

The standard form of traffic control at a “T” intersection is to have a yield sign facing incoming traffic on the intersecting road. According to Book 5 of the Ontario Traffic Manual, a yield sign is appropriate when traffic volumes are low, sight lines are good, and stopping is not always required. All these conditions are met at the intersections of Ruby Avenue and Windstar Avenue and at Windstar Avenue and Edna Street.

Laura Drive is currently identified as a through highway in the City’s Traffic and Parking Bylaw, and as such, no additional bylaws are required to install a stop sign on Ruby Avenue at the intersection for eastbound traffic. Staff have already completed the work to have this stop sign installed, as well as change the current traffic control on Emerald Crescent and Laura Drive from yield controlled to a stop controlled.

Figures 2 & 3 show the intersections of Windstar Avenue and Edna Street as well as Windstar Avenue and Ruby Street. Figure 4 shows the intersection of Ruby Street and Laura Drive / Emerald Crescent.



Figure 2 – Intersection of Windstar Avenue and Edna Street



Figure 2: Intersection of Windstar Avenue and Ruby Street



Figure 4: A look at the intersection of Emerald Crescent at Laura Drive from Ruby Street

Next Steps

To implement a standard form of traffic control at the newly created intersections, it is recommended that traffic be controlled with yield signs facing northbound traffic on Windstar Avenue at Ruby Street, and southbound traffic on Windstar Avenue at Edna Street.

Resources Cited

Ontario Traffic Manual Book 5, Ministry of Transportation, 2021. Accessed Online:

<https://www.library.mto.gov.on.ca/SydneyPLUS/Sydney/Portal/default.aspx?component=AAAAY&record=d5777174-8f0a-4720-8dd6-476b859b3682>