
HALDIMAND COUNTY

Report ECW-11-2019 All Way Stop Request - Lafayette Street and Craddock Boulevard - Jarvis



For Consideration by Council in Committee on May 28, 2019

OBJECTIVE:

To provide Council with a recommendation in response to an all way stop request at the intersection of Lafayette Street and Craddock Boulevard in Jarvis.

RECOMMENDATIONS:

1. THAT Report ECW-11-2019 All Way Stop Request - Lafayette Street and Craddock Boulevard – Jarvis be received;
2. AND THAT an all way stop condition be installed at the intersection of Lafayette Street and Craddock Boulevard.

Respectfully submitted: Tyson Haedrich, M. Eng., P. Eng., General Manager of Engineering & Capital Works

Approved: Donald G. Boyle, Chief Administrative Officer

EXECUTIVE SUMMARY:

The Council approved All Way Stop Installation Warrant Policy provides staff with a consistent way of addressing requests for all way stops.

While the Part Two – Warrants criteria in the All Way Stop Installation Warrant Policy are not met for this location, staff are recommending that the request for an all way stop at the intersection of Lafayette Street and Craddock Boulevard in Jarvis be implemented for the reasons stated in this report.

BACKGROUND:

At the September 18, 2018 Council in Committee meeting staff were given direction through the following resolution:

“THAT staff be directed to report back to Council in Committee regarding the installation of an all way stop at the intersection of Lafayette Street and Craddock Boulevard in Jarvis.”

This resolution was initiated by the planned construction of a new sidewalk on the south side of Lafayette Street from Craddock Boulevard to Monson Street (see Attachment 1). The project also included new sidewalk on Boyd Street and the replacement of sidewalk on Monson Street. The project was budgeted and approved for 2018, however the contractor was unable to start the project until late fall and staff made the decision to defer the project until spring of this year. The project is currently under construction with an expected completion date at the end of June.

Under the existing conditions Craddock Boulevard is a through road and Lafayette Street has stop conditions at the four way intersection. Residential homes are located on all four legs of the intersection.

ANALYSIS:

Haldimand County's All Way Stop Installation Warrant Policy No. 2007-03 (see Attachment 2) provides criteria that must be met in order to consider an all way stop installation such as posted speeds, intersection layout and traffic volumes.

The results of the all way stop evaluation are as follows:

Part One – Consideration:

For a warrant to be considered, all of the following conditions must be satisfied:

1. Minimum posted speed – *satisfied*.
2. Closest traffic control device – *satisfied*.
3. Intersection configuration – *satisfied*.
4. Arterial intersections – combined volume of vehicles and pedestrians from minor street - *not applicable*.
5. Secondary intersections – combined volume of vehicles and pedestrians from minor street - *satisfied – Lafayette Street is approximately 40% of total volume (35% required)*.

As all the conditions under Part One – Consideration are satisfied, the Part – Two Warrants is evaluated:

Part Two – Warrants:

Each of the following warrants are evaluated individually and if any one are met the all way stop is warranted:

1. Visibility Conditions – *not satisfied (distance is approximately 105 m)*.
2. Collision History Warrant – *not satisfied (less than five correctable collisions)*.
3. Traffic Volume Warrant – *not satisfied (traffic volume is less than 50 per hour over 8 hours)*.
4. Pedestrian Exposure Warrant – *not satisfied (more than 150 m to library and less than 50 pedestrians for each of three hours)*.
5. Combination Warrant – *not satisfied*.

While the results of the Part Two – Warrants for an all way stop at this location are not met, County staff are recommending that an all way stop be implemented at the intersection based on the following rationale:

- The construction of the new sidewalk on Lafayette Street increases the walkability of the neighborhood by providing a connection from the Jarvis Meadows and Country Fields subdivisions on the east side of Craddock Boulevard to the Jarvis Public Library, the Jarvis Public School and Main Street. The crossing at Craddock Boulevard is currently uncontrolled resulting in an potentially vulnerable spot for pedestrians.
- The new sidewalk will provide a connection to the Jarvis Public School/Jarvis Library and it is anticipated that a number of young children will use the new route to walk to school and/or the library.
- The intersection of Lafayette Street and Craddock Boulevard satisfies the Part One – Consideration of the warrant indicating that the intersection is a potential candidate for an all way stop. If pedestrian traffic were to increase, which is expected over time with the buildout of the new subdivisions, the Pedestrian Exposure Warrant will be satisfied at some point in time.
- County staff have evaluated the intersection and concluded that the installation of an all way stop condition at this location will not negatively impact traffic flow.

FINANCIAL/LEGAL IMPLICATIONS:

Roads Operations will be responsible for installing the required signage. The estimated cost is approximately \$300 and will be funded from the Road Operations regulatory/warning signage operating account.

STAKEHOLDER IMPACTS:

Not applicable.

REPORT IMPACTS:

Agreement: No

By-law: Yes

Budget Amendment: No

Policy: No

ATTACHMENTS:

1. Requested all way stop location.
2. All Way Stop Installation Warrant Policy No. 2007-03.