

# Municipality of Lakeshore – Report to Council

## Operations

## Engineering and Infrastructure



**To:** Mayor & Members of Council

**From:** Marco Villella, P.Eng., Division Leader – Engineering & Infrastructure

**Date:** September 5, 2023

**Subject:** Pedestrian Crossovers (PXOs) – Oakwood Avenue

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### Recommendation

Direct Administration to proceed with the design and engineering of two (2) pedestrian crossovers (PXOs) and the warrant analysis of a school crossing guard for Oakwood Avenue; and

Approve funding in the amount of \$25,000 (including applicable HST) to complete the design work and warrant analysis, as presented at the September 26, 2023 Council meeting.

### Background

Administration spoke with Jennifer Mills, the Vice Principle at Lakeshore Discovery School, on May 1, 2023 via phone related to concerns about lack of student crossing locations on Oakwood Avenue to access Lakeshore Discovery School.

It was requested at that time that a pedestrian crossing be considered at Oakwood Avenue and Magnolia Lane to accommodate students leaving from the rear of the school who reside on the south side of Oakwood Avenue. It was mentioned that in the interim students should be utilizing the crosswalk at the lights at IC Roy.

Administration confirmed that there are plans for a pedestrian crossing (i.e. PXO) along Oakwood Avenue and that it is unlikely the preferred location mentioned (at Magnolia Lane) would be warranted due to the close proximity of the existing traffic control device (i.e. controlled pedestrian crossing) at the signal location at IC Roy Drive and Oakwood Avenue.

A crossing guard was never brought up in the conversation by the school.

Further, the Municipality received a formal request from Lakeshore Discovery School (see attached letter dated June 22, 2023) regarding the implementation of a pedestrian crossing feature and crossing guard in the vicinity of Lakeshore Discovery School to accommodate students walking to and from the new developments (phases of River

Ridge subdivision), just south of the elementary school. The specific request from Lakeshore Discovery School was for the addition of a pedestrian crossing treatment and a crossing guard on Oakwood Avenue near Magnolia Lane.

At the August 15, 2023 Regular Council Meeting, the following notice of motion was passed by Council:

242-08-2023

Direct Administration to prepare a report regarding the expedited installation of pedestrian crossings near Lakeshore Discovery School or crossing guard position.

### **Comments**

The Puce Secondary Plan Transportation Study was completed in 2006 by IBI Group that included the recommendation to implement pedestrian crossing facilities along Oakwood Avenue between IC Roy Drive and Renaud Line as continued development progressed in the area (i.e when warranted). Timing was not provided; however the neighborhood has more recently seen significant growth with residential development from River Ridge Subdivision and the redevelopment of River Ridge Park. This growth along with the continued traffic being generated from both an elementary and secondary school has triggered this warrant.

Currently, there is a crossing guard at the mid-way block of IC Roy Drive between Mancini Drive and Ryan Avenue, within close vicinity of Lakeshore Discovery School.

The implementation of a crossing guard is considered to be a form of pedestrian control; however placement of a crossing guard requires a designated and controlled crossing treatments to ensure safety at all times (i.e. control of the crossing outside of crossing guard hours).

In lieu of providing an uncontrolled pedestrian crossing on a collector roadway, with currently no warrant assessment undertaken as required, Administration is seeking to expediate the design of the formal pedestrian crossing features in two locations along Oakwood Avenue to allow safe passage of the pedestrian traffic in the area.

Consideration will be given to the following through this process:

- Several guidelines are required to be met including Transportation Association of Canada (TAC) Book 6 – Pedestrian Integrated Design and Ontario Traffic Manual (OTM) Book 15 – Pedestrian Crossing Treatments. These principles and guidelines are paramount to maintaining the safety of pedestrians.
- In accordance with Ontario Traffic Manual (OTM) Book 12 – Traffic Signals, a Pedestrian Crossover (PXO) should not be installed within 200 meters of another

signal protected pedestrian crossing. The intersection at Oakwood Avenue and IC Roy Drive is a signaled intersection that provides a controlled crosswalk for pedestrians. The exact location of either pedestrian crossover will require an assessment of the pedestrian and traffic volumes by a Traffic Engineer in the design stage.

- The Municipality has a Crossing Guard Policy that identifies that a Crossing Guard Warrant Analysis consists of, but not limited to, the review of the following criteria which all three (3) must be met:
  - Posted maximum speed limit (must be less than 60 km/hr);
  - Available safe gaps and number of students crossing; and
  - History of student/vehicle conflicts.
- In addition, a traffic assessment will be conducted to analyze the warrant of a crossing guard at the recommended PXO location or at any adjacent locations. Upon completion of the Crossing Guard Warrant Analysis a subsequent report shall be brought to Council with the appropriate recommendation regarding the implementation of a crossing guard.

It is expected that the design and analysis work for the pedestrian crossing treatments be completed in the Winter 2023 with installation in early to mid-2024, pending budget approval.

## **Financial Impacts**

As part of previous development agreements, the benefiting landowners (surrounding) will be required to contribute financially based on the land mass percentages.

The Municipality's portion is a combined 18.5% of the total project cost once all reimbursements are received through development demands and subdivision agreements (current and future). The Municipality's portion includes St. Annes High School, River Ridge Park and the Rosewood Subdivision, all developed prior to the cost sharing of the PXO's.

It is anticipated that the project costs for the supply and installation of two (2) pedestrian crossovers (PXOs) to be approximately \$105,000 (including design and construction).

Due to expediting the installation of the pedestrian crossing treatments, Administration is requesting funding in the amount of \$25,000 to commence with the detailed design and engineering in advance of the 2024 budget. Administration plans to request the remaining funds for the supply and construction of two (2) pedestrian crossovers (PXOs) during the 2024 budget in the amount of \$80,000. The funding source for the project will come from the roads reserve.

It should be noted that after reimbursements are received from benefitting landowners, the anticipated final project cost for the supply and installation to the Municipality is approximately \$19,500.00 including applicable HST.

The Municipality will be required to fund this project until all the lands identified have been developed and the Municipality is reimbursed by all benefitting landowners.

## **Attachments**

Letter from School Board

## **Report Approval Details**

Document Title:	Pedestrian Crossing Treatments - Oakwood Avenue.docx
Attachments:	- Lakeshore Discovery School 22June2023.pdf
Final Approval Date:	Sep 22, 2023

This report and all of its attachments were approved and signed as outlined below:

Prepared by Marco Villella

Submitted by Krystal Kalbol

Approved by Justin Rousseau and Truper McBride