



**STAFF REPORT
ACTION REQUIRED**

**Proposed Traffic Control Signals at McLevin Avenue at
Pinery Trail / Malvern Town Centre Driveway**

Date:	August 21, 2007
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 42 – Scarborough-Rouge River
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07047 D07-0730 Mclewin Pinery TCS

SUMMARY

This staff report is about a matter for which the Community Council has delegated authority from City Council to make a final decision.

This report provides the results of a Traffic Control Signal Warrant study conducted at the intersection of McLevin Avenue and Pinery Trail / Malvern Town Centre Driveway.

Traffic studies reveal that traffic control signals are warranted at the noted intersection.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that Scarborough Community Council:

1. Approve the installation of traffic control signals at the intersection of McLevin Avenue and Pinery Trail / Malvern Town Centre driveway, and
2. Pass or amend the appropriate by-law(s) accordingly.

Financial Impact

The financial cost of installing these new traffic control signals is approximately \$100,000.00. The funding for these signals is available in Transportation Services Division’s Capital Works Budget under Project No. CTP706-01.

ISSUE BACKGROUND

Further to a request from City Councillor Raymond Cho, Transportation Services staff reviewed the feasibility of installing traffic control signals at the intersection of McLevin Avenue and Pinery Trail / Malvern Town Centre driveway.

COMMENTS

Several characteristics describe the intersection of McLevin Avenue and Pinery Trail / Malvern Town Centre driveway, including:

- This four-way intersection is located in the Malvern Neighbourhood and is presently controlled by a stop sign on Pinery Trail.
- McLevin Avenue is a four-lane (13 metre pavement width) minor arterial roadway with a speed limit of 50 kilometres per hour (signed) and a daily traffic volume of approximately 9,300 vehicles per day.
- Pinery Trail is a two-lane (9.1 metres) local roadway with a speed limit of 50 kilometres per hour (not signed).
- Malvern Town Centre is located on the southeast quadrant of the intersection with its westerly driveway (9.1 metres) providing access to both McLevin Avenue and Tapscott Road.
- Traffic control signals are located approximately 141 metres west at Tapscott Road, and 426 metres east at Neilson Road.
- Sidewalks are located on the both sides of McLevin Avenue.

Traffic Control Signal Warrant Study

Transportation Services staff conducted a Traffic Control Signal Warrant Study at the intersection of McLevin Avenue and Pinery Trail / Malvern Town Centre driveway. Using traffic volumes recorded over the peak eight hours of a typical weekday (Wednesday, May 16, 2007), the following results were obtained:

Traffic Control Signal Warrant	Compliance Level
Minimum Vehicular Volume	95%
Delay to Cross Traffic	82%
Collision Hazard	13%

For traffic control signals to be numerically justified, one of the “Minimum Vehicular Volume” or “Delay to Cross Traffic” warrants must be 100% satisfied or any two of the three warrants must be at least 80% satisfied.

As outlined in the above table, two warrants, the “Minimum Vehicular Volume” and the “Delay to Cross Traffic”, are satisfied more than 80%. Therefore, traffic control signals are justified at the subject intersection.

Collision History

A review of the Toronto Police Service collision records for the five-year period ending December 31, 2006 revealed the following history:

Five-Year Collision Information	Number of Reported Collisions					
	2002	2003	2004	2005	2006	Total
Total Collisions	0	2	1	5	2	10
Collisions Potentially Preventable by the Installation of Traffic Control Signals	0	1	0	1	1	3
Collisions Involving Pedestrians	0	0	0	0	0	0

In summary, traffic control signals are justified and should be installed at the subject intersection, which should improve traffic operations and should not have a significant impact on the operation of the arterial road network.

McLevin Avenue is classified as a Minor Arterial Road in the City's approved Road Classification System; therefore, the final decision on the installation of the proposed traffic control signals has been delegated to Scarborough Community Council.

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SIGNATURE

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ATTACHMENTS

1. Location Plan (Proposed Traffic Control Signals – McLevin Avenue at Pinery Trail / Malvern Town Centre Driveway)