



STAFF REPORT ACTION REQUIRED

Proposed Installation of Traffic Control Signals on Ashtonbee Road at Lebovic Avenue

Date:	December 21, 2006
To:	Chairman and Members of the Scarborough Community Council
From:	Peter J. Noehammer, Director, Transportation Services, Scarborough District
Wards:	Ward 37 – Scarborough Centre
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07017 Ashtonbee Road at Lebovic Avenue

SUMMARY

Due to the construction of significant new retail/commercial development within the Golden Mile Employment District, traffic volumes are anticipated to meet the required technical criteria to warrant the installation of traffic control signals at the Ashtonbee Road and Lebovic Avenue intersection.

This report recommends the installation of these traffic signals.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that:

1. Traffic control signals be approved at the intersection of Ashtonbee Road and the Lebovic Avenue Extension; and
2. the appropriate City Officials be authorized and directed to take the necessary actions to give effect thereto.

FINANCIAL IMPACT

This project is an integral part of the Golden Mile Employment District and accordingly should be funded from the Golden Mile Employment District Transportation System Improvement Charge (TSI Charge) Reserve fund, resulting in no financial impact on the Transportation Services Budget. The construction of the new Traffic Control Signals is estimated at \$112,500.00. In addition, modifications are required to the existing signal plant at the Eglinton Avenue and Lebovic Avenue intersection. The cost for these modifications is estimated at \$55,000.00.

The Deputy City Manager and the Chief Financial Officer has reviewed this report and agrees with the financial impact information.

ISSUE BACKGROUND

This project is an integral part of the Golden Mile Employment District and should be funded from the Golden Mile Employment District Transportation System Improvement Charge Reserve fund. The reserve account was established to fund a list of specific transportation network improvements in this area, of which the subject traffic control signals is one.

COMMENTS

Ashtonbee Road in the vicinity of Lebovic Avenue is currently a two-lane collector road which is being upgraded to a four-lane collector roadway with a 50 km/h speed limit and a two-way 24-hour traffic volume of approximately 19,000 vehicles. Lebovic Avenue is currently being constructed north of Eglinton Avenue as a four lane collector road serving commercial development between Eglinton Avenue, Ashtonbee Road, Pharmacy Avenue and Warden Avenue.

Existing traffic control signals adjacent to the proposed intersection are on Eglinton Avenue at Lebovic Avenue to the south, Ashtonbee Road at Warden Avenue to the east and Ashtonbee Road at Pharmacy Avenue to the west.

Based on the findings of a detailed operational assessment, traffic control signals at the intersection of Ashtonbee Road and Lebovic Avenue can be supported technically.

With regard to meeting the minimum volume requirements as part of the technical warrants for new traffic control signals, the Ontario Traffic Manual, Book Twelve - Traffic Signals was used. Since this installation is for future conditions at a new intersection, weekday peak hour conditions were used to represent design conditions at the intersection of Ashtonbee Road at Lebovic Avenue. Justification for future conditions were used in forecasting traffic movements at the intersection. With the introduction of the new development traffic, this intersection was found to meet the technical warrants to justify the installation of traffic control signals.

Based on forecast traffic volumes from the traffic operational assessment, the signal warrant calculations produced the following results:

Ashtonbee Road and Lebovic Avenue

Traffic Control Signal Warrant	Compliance Level
Justification 1: Minimum Vehicular Volume	90%
Justification 2: Delay to Cross Traffic	98%
Justification 3: Collision Hazard	N/A
Justification 4: Combination Warrant	YES

As indicated by the foregoing summary, a traffic control signal at the intersection of Ashtonbee Road and Lebovic Avenue is warranted.

The Ward Councillor has been consulted on this proposed traffic control signal installation.

CONTACT

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SIGNATURE

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ATTACHMENTS

Attachment 1 – Location Map