



## STAFF REPORT ACTION REQUIRED

### Proposed Northbound Left-Turn Prohibition – Mountcastle Gate at Steeles Avenue East

<b>Date:</b>	May 20, 2010
<b>To:</b>	Scarborough Community Council
<b>From:</b>	Director, Transportation Services, Scarborough District
<b>Wards:</b>	Ward 39 – Scarborough Agincourt
<b>Reference Number:</b>	P:\2010\Cluster B\TRA\Scarborough\sc1061 D09-3410044 Mountcastle at Steeles left-turn prohibition

#### SUMMARY

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This staff report is about a matter for which the Community Council does not have delegated authority from City Council to make a final decision.

The purpose of this report is to obtain approval for the installation of a Northbound Left-Turn Prohibition on Mountcastle Gate at Steeles Avenue East, 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m., Monday to Friday.

Traffic studies reveal that a Northbound Left-Turn Prohibition is warranted.

#### RECOMMENDATIONS

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**Transportation Services, Scarborough District, recommends that Scarborough Community Council recommend that City Council:**

1. Approve the installation of a northbound left-turn prohibition on Mountcastle Gate at Steeles Avenue East as identified in Appendix 1 of this report.
2. Pass or amend the appropriate by-law(s) accordingly.

#### Financial Impact

The financial cost of installing the appropriate signage is approximately \$750.00. Funding for the signs is available in the Transportation Services 2010 Operating Budget, within Cost Centre, TP0397.

## ISSUE BACKGROUND

Further to a request from the local councillor, Transportation Services staff reviewed the feasibility of installing a Northbound Left-Turn Prohibition on Mountcastle Gate at Steeles Avenue East.

## COMMENTS

The following characteristics describe the area and land usage on Mountcastle Gate at Steeles Avenue East:

- Mountcastle Gate is a north-south collector roadway with a 50 Km/h speed limit and a daily traffic volume of approximately 2,600 vehicles per day, (vpd).
- Mountcastle Gate extends from Steeles Avenue East to Wintermute Boulevard, the total length of this roadway is approximately 60 metres.
- Mountcastle Gate forms a “T”-type intersection at Steeles Avenue East and at Wintermute Boulevard. Stop controls are in place at both intersections.
- Mountcastle Gate is part of a Toronto Transit Commission (T.T.C.) Route, with a northbound stop located approximately 25 metres south of Steeles on the east side of Mountcastle Gate.
- The land use on Mountcastle Gate is single family dwellings.
- Steeles Avenue East is a major arterial roadway with a seven lane cross-section, an estimated traffic volume of 50, 042 vehicles per day and an averaged operating speed of 70 km/h.
- The median lane on Steeles Avenue East is a centre two-way left turn lane.
- Traffic Control Signals are located on Steeles Avenue East at Birchmount Road approximately 285 metres to the east and on Steeles Avenue East at Warden Avenue approximately 317 metres to the west. Motorists are provided with signalized alternative locations to gain westbound access onto Steeles Avenue East.
- The eight-hour northbound left-turning volume on a typical week day is approximately 157 vehicles.

## Turning Movement Observation Study

Transportation Services staff conducted a Turn Movement Study on Thursday, October 8, 2009 and on Saturday, October 17, 2009 at the intersection of Steeles Avenue East and Mountcastle Gate. Staff observed conflicting movements at this intersection. The majority of the conflicts involved northbound left turns merging with westbound Steeles Avenue East traffic. Traffic Control Signal Warrant studies were conducted; signals are not justified at this time.

Traffic Control Signal Warrant	Compliance Level	
	Weekday Thursday, October 8, 2009	Weekend Sunday, October 17, 2009
Minimum Vehicular Volume	34 %	43 %
Delays to Cross Traffic	35 %	53 %
Collision Hazard	53 %	53 %

## Collision History

A review of the Toronto Police Service collision records for the five-year period ending December 31, 2009 revealed the following history:

Five-Year Collision Information	2005	2006	2007	2008	2009	Total
Left Turn Collisions Collisions potentially Preventable by the installation of Traffic Control Signals	1	4	4	0	2	11
Collisions Involving Pedestrians Crossing Steeles Avenue East at Mountcastle Gate	0	0	0	0	0	0

In summary, studies indicate that there is sufficient collision hazard concern and observed conflicts to justify the installation of a Northbound Left-Turn Prohibition on Mountcastle Gate at Steeles Avenue East during the weekday a.m. and p.m. peak periods.

Accordingly, the resultant Northbound No Left-Turn Prohibition and associated signage is expected to improve safety for all road users by minimizing vehicular conflicts during peak traffic periods.

## CONTACT

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## SIGNATURE

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Director, Transportation Services, Scarborough District

FJB:ca/lab

## ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact), Northbound No Left Turn Prohibition
2. Location Plan – Proposed Northbound Left-Turn Prohibition Mountcastle Gate at Steeles Avenue East

**“Prohibited Turns”  
Regulation to be Enacted**

(In Column 1) Intersection or Portion of Highway	(In Column 2) Direction	(In Column 3) Turns Prohibited	(In Column 4) Times or Days
Mountcastle Gate at Steeles Avenue East	Northbound	Left	7:00 a.m. to 9:00 a.m. 4:00 p.m. to 6:00 p.m. Monday to Friday