



STAFF REPORT ACTION REQUIRED

Proposed Minor Street Stop Signs - Mammoth Hall Trail Area

Date:	January 24, 2008
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 42 – Scarborough - Rouge River
Reference Number:	P:\2008Cluster B\TRA\Scarborough\sc08009 D07-1073 Mammoth Hall Trail Area Stop Signs

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 responds to a request to install an All-Way Stop Control at the intersection of Mammoth Hall Trail and Snowball Crescent (west intersection). The report shows that this intersection failed to meet the required technical warrant for this type of traffic control.

Transportation Services staff reviewed the installation of minor street stop signs at four uncontrolled three-way intersections in the Malvern Neighbourhood, namely at: Proud Grove and Snowball Crescent, O'Henry Grove and Snowball Crescent, Shademaster Court and Littleleaf Drive, and Sunburst Square and Sunburst Square.

It is recommended that minor street stop signs be installed at these latter four uncontrolled three-way intersections to clearly define the right-of-way and to regulate traffic flow.

RECOMMENDATIONS

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

1. Not approve the installation of an All-Way Stop Control at Mammoth Hall Trail and Snowball Crescent (west intersection),
2. Adopt the “Compulsory Stops” regulation, as identified in Appendix 1 of this report, and
3. Amend the appropriate by-laws accordingly.

Financial Impact

The financial cost of installing these four recommended stop controls is approximately \$1,000.00. The funding for these stop controls is available in the Transportation Services 2008 Operating Budget, within Cost Centre TP0226.

ISSUE BACKGROUND

Further to a request from Councillor Raymond Cho, Transportation Services staff reviewed the feasibility of installing an All-Way Stop Control at the intersection of Mammoth Hall Trail and Snowball Crescent (west intersection).

The justification for the installation of an All-Way Stop Control is based on a technical warrant adopted by Council for use in the City of Toronto.

COMMENTS

The following characteristics describe the intersection of Mammoth Hall Trail and Snowball Crescent (west intersection):

- This three-way intersection is located in the community west of Malvern Street, north of Sheppard Avenue East, and is presently controlled by a northbound stop sign on Snowball Crescent.
- Mammoth Hall Trail is a two-lane collector roadway with a speed limit of 40 kilometres per hour (signed) and a daily traffic volume of approximately 2,900 vehicles per day.
- Snowball Crescent is also a two-lane local roadway with a speed limit of 50 kilometres per hour (not signed).
- Sidewalks are located on the both sides of Mammoth Hall Trail and both sides of Snowball Crescent.

All-Way Stop Control Warrant Study

A traffic study conducted at the intersection of Mammoth Hall Trail and Snowball Crescent (west intersection) during the morning and afternoon peak hours of a typical weekday (Tuesday, June 12, 2007) produced the following results:

All-Way Stop Control Warrant	A Total Approach Vehicle Volume	B Vehicle/Pedestrian Volume Crossing Major Road	C Unit Volume Split* Major/Minor Roads
Two-Hour Study Period Average	317	32	90/10
Warrant Requirements For Study Period Average For Collector Roads	≥ 375	≥ 150	≥ 30/70 or ≤ 70/30

* “Unit Volume Split”: Major Road Volume – Vehicles only.
 Minor Road Volume – Vehicles plus pedestrians crossing the major road.

For an All-Way Stop Control to be numerically justified, the traffic volume requirements for the “Study Period Average” must be completely satisfied in Categories A and C, or Categories B and C.

As outlined in the above table, the traffic volumes do not meet the requirements to install an All-Way Stop Control at the subject intersection at this time.

A review of the collision records revealed that no collisions were reported at this intersection during the five-year period ending December 31, 2006.

Accordingly, based on the above-mentioned traffic study results, this intersection is operating in a safe and efficient manner with the existing northbound stop sign on Snowball Crescent.

During this intersection’s review, staff identified four three-way uncontrolled intersections in the immediate area. Accordingly, to provide stop sign uniformity and to encourage motorists to stop before the sidewalk to enhance pedestrian safety, minor street stop signs are recommended at the following four locations:

1. Proud Grove at Snowball Crescent
2. O’Henry Grove at Snowball Crescent
3. Shademaster Court at Littleleaf Drive
4. Sunburst Square at Sunburst Square

When installed, the subject stop signs will help to clarify road right-of-way, regulate traffic flow and enhance public safety.

CONTACT

Marko A. Oinonen, P.Eng.
Manager, Traffic Operations, Scarborough District
Tel: 416-396-7148
Fax: 416-396-5641
E-Mail: moinone@toronto.ca

SIGNATURE

Peter J. Noehammer, P.Eng.
Director, Transportation Services, Scarborough District

FL:ca

ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Stop Signs – Mammoth Hall Trail Area)

Appendix 1

“Compulsory Stops”
Regulation to be Enacted

Column 1
Intersection

Column 2
Stop Street

Proud Grove and
Snowball Crescent

Proud Grove

O’Henry Grove and
Snowball Crescent

O’Henry Grove

Shademaker Court and
Littleleaf Drive

Shademaker Court

Sunburst Square and
Sunburst Square

Sunburst Square
Eastbound