



Proposed Minor Street Stop Signs in the Lowcrest Boulevard Area

Date:	March 9, 2007
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 40 – Scarborough-Agincourt
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07026 D06-2834 Lowcrest Shrewsbury Stop Sign

SUMMARY

This report responds to a request to install All-way stop controls at the uncontrolled intersection of Lowcrest Boulevard and Shrewsbury Square. The report also shows that this intersection failed to meet the required technical warrant for this type of control; however, Transportation Services staff recommend the installation of a minor street stop sign on Shrewsbury Square at this intersection, as well as the installation of minor street stop signs at five other uncontrolled intersections in the Tam O'Shanter-Sullivan Neighbourhood.

Council's approval of installing minor street stop signs at these six uncontrolled intersections will clearly define the right-of-way and regulate traffic flow at these intersections.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that:

1. All-way stop control not be installed at the intersection of Lowcrest Boulevard and Shrewsbury Square.
2. The "Compulsory Stops" regulation, as identified in the Appendix 1 of this report, be adopted.
3. The appropriate by-law be amended.

FINANCIAL IMPACT

The financial cost of installing these stop controls is approximately \$1,050.00. The funding for these stop controls is available in the Transportation Services 2007 Operating Budget, within Cost Centre TP0226.

ISSUE BACKGROUND

Further to a request from City Councillor Norm Kelly, Transportation Services staff reviewed the feasibility of installing All-way stop controls at the intersection of Lowcrest Boulevard and Shrewsbury Square.

The justification for the installation of All-way stop control is based on a technical warrant adopted by Council for use in the city of Toronto.

COMMENTS

Several factors describing the intersection of Lowcrest Boulevard and Shrewsbury Square include:

- This intersection is located in the community west of Warden Avenue and north of Highway 401.
- Lowcrest Boulevard is a two-lane local road with a posted speed limit of 40 kilometres per hour and a daily traffic volume of approximately 1,300 vehicles per day.
- Shrewsbury Square is also a two-lane local road which intersects Lowcrest Boulevard from the north and forms a three-way intersection, which is presently uncontrolled.
- Sidewalks are located on both sides of Lowcrest Boulevard.

All-Way Stop Control Warrant Study

A traffic study conducted at the intersection of Lowcrest Boulevard and Shrewsbury Square during the morning and afternoon peak hours of a typical weekday (Wednesday, December 20, 2006) 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	115	33	72/28
Warrant Requirements For Study Period Average For Local Roads	≥ 250	≥ 100	≥ 30/70 or ≤ 70/30

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

For 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 All-way stop control at the subject intersection at this time.

However, although a review of the collision records revealed that no collisions were reported at this intersection during the five-year period ending October 31, 2006, it would be prudent to install a stop sign on Shrewsbury Square at Lowcrest Boulevard. This stop sign would encourage motorists to stop before the sidewalk to enhance pedestrian safety.

In addition to this intersection, there are five other uncontrolled intersections in the immediate area. Accordingly, to provide stop sign uniformity in the vicinity, and for the same safety reasons, stop signs are also recommended at the following five locations:

1. Abbotsfield Gate Lane at Abbotsfield Gate
2. By Pass Court at Lowcrest Boulevard
3. Rotunda Place at Lowcrest Boulevard
4. Seabury Gate at Holford Crescent
5. Shrewsbury Square, Westbound, at Shrewsbury Square

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

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SIGNATURE



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ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Stop Signs – Lowcrest Boulevard Area)

Appendix 1

“Compulsory Stops”
Regulation to be Enacted

Column 1
Intersection

Column 2
Stop Street

Abbotsfield Gate Lane and
Abbotsfield Gate

Abbotsfield Gate Lane

By Pass Court and
Lowcrest Boulevard

By Pass Court

Rotunda Place and
Lowcrest Boulevard

Rotunda Place

Seabury Gate and
Holford Crescent

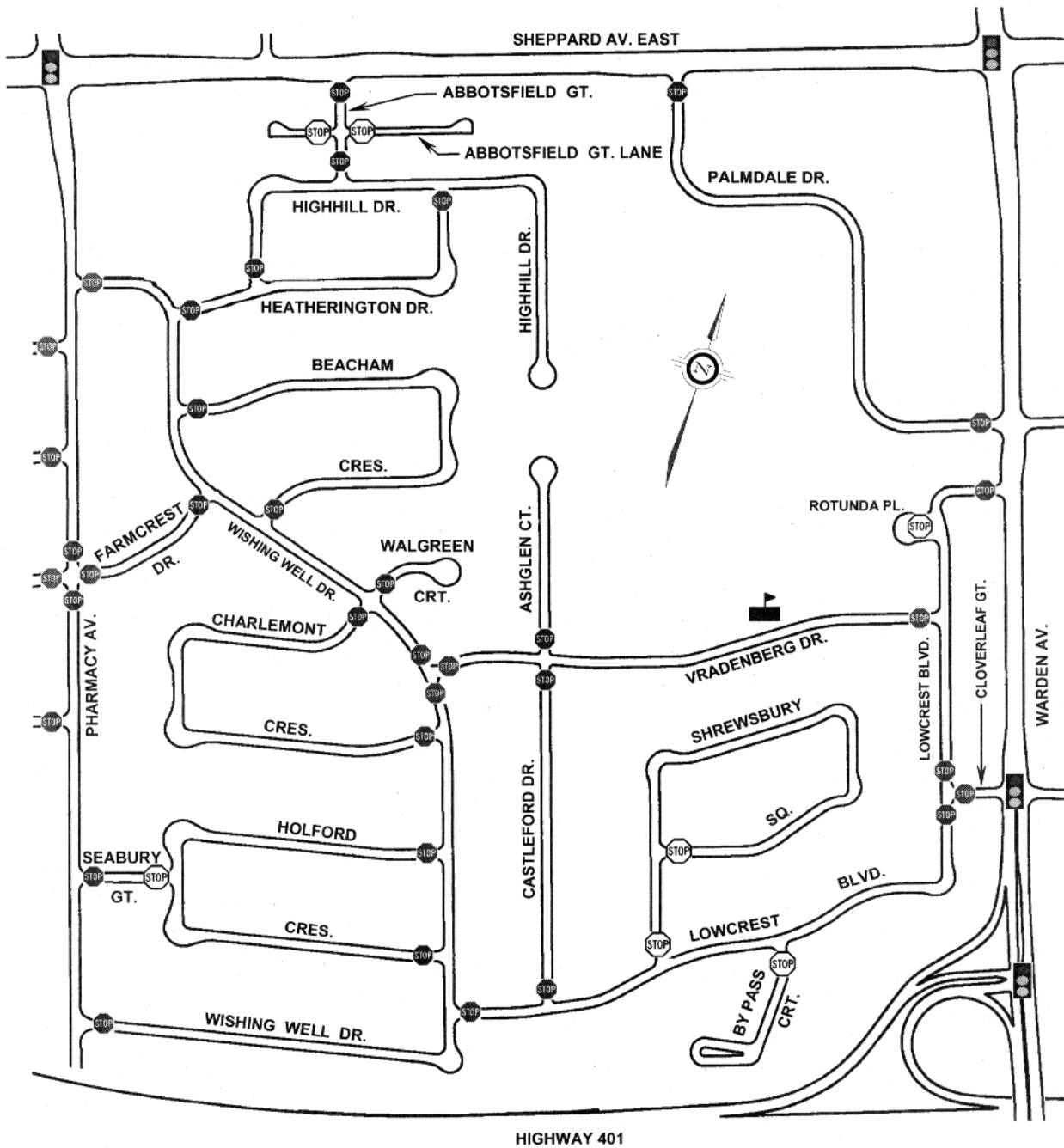
Seabury Gate

Shrewsbury Square and
Lowcrest Boulevard





Shrewsbury Square

Shrewsbury Square and
Shrewsbury Square

Shrewsbury Square
Westbound



LEGEND

-  TRAFFIC CONTROL SIGNALS
-  STOP SIGN
-  PROPOSED STOP SIGN
-  VRADENBURG PUBLIC SCHOOL



TRANSPORTATION SERVICES

TRANSPORTATION SERVICES
Scarborough - East District

SCALE	NTS
DATE	DEC. 2006
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**PROPOSED STOP SIGNS
LOWCREST BOULEVARD AREA**

FILE NUMBER D06-2834	
ATTACHMENT 2	WARD 40