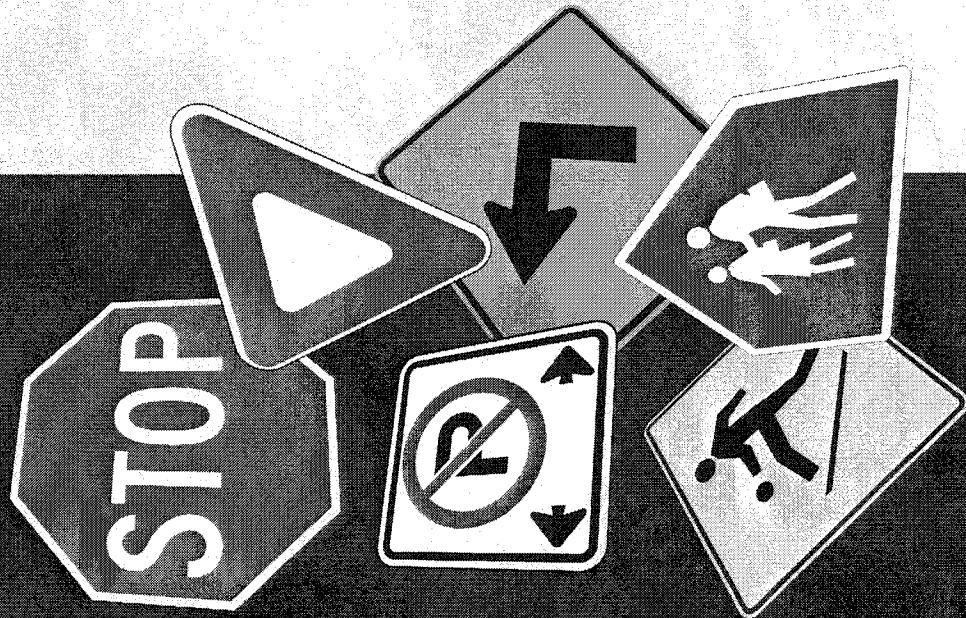


Councillor Briefing Sessions

(51ST)



Regulatory and Warning Traffic Signs

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July 12, 2006

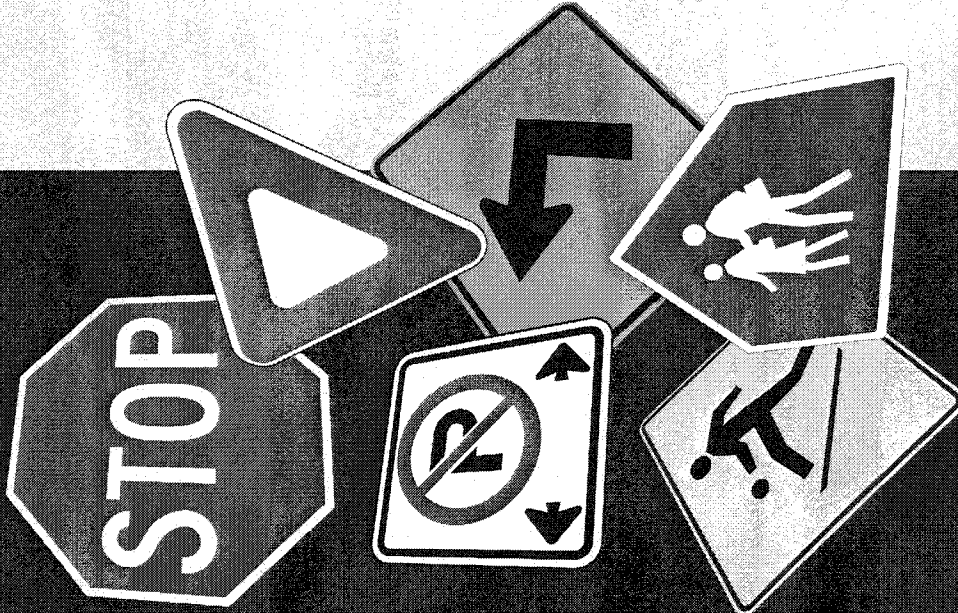
Regulatory and Warning Traffic Signs

Regulatory Signs:

- used to indicate or reinforce traffic laws or regulations which apply upon a street (HTA regulations, municipal by-laws)
- disregard of signs may constitute a violation
- most are rectangular in shape with black legend on white background

Examples of Regulatory Signs:

- Stop
- Yield
- No Parking
- No Heavy Traffic
- Speed Limit
- No Right Turn on Red



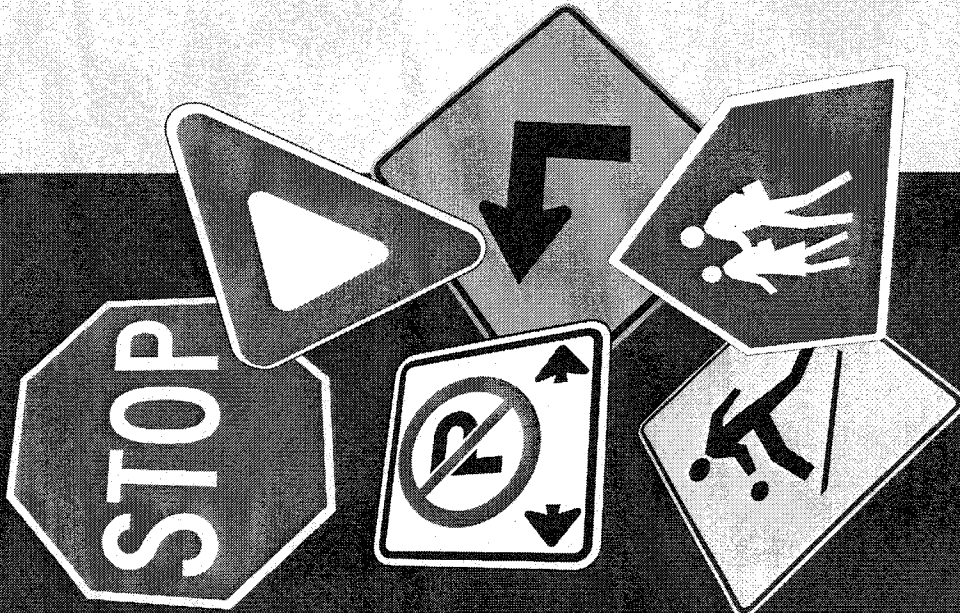
Regulatory and Warning Traffic Signs

Warning Signs:

- provide advance notice to road users about unexpected and potentially dangerous conditions on or near the road
- road users should exercise caution and possibly slow down in order to travel safely in the presence of the hazard
- most are diamond shaped with black legend on yellow background

Examples of Warning Signs:

- Sharp Curve
- Advisory Speed tab
- Playground Ahead
- Pedestrians Ahead
- Lane Ends
- School Area
- Truck Entrance

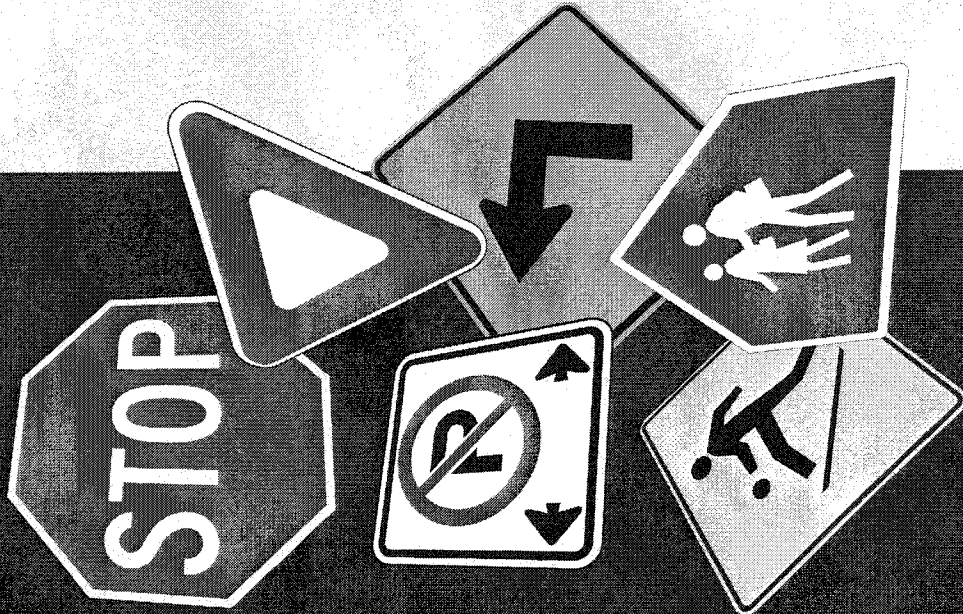


Regulatory and Warning Traffic Signs

Consistency in Applications

The implementation of road signage must be based on:

- the need for the signs based on technical facts and engineering analysis, and
- the uniformity and consistency in the use of the signs.
- The City follows the volume warrants as set out in the Ontario Traffic Manual before installing traffic control devices such as, traffic signals and stop signs.

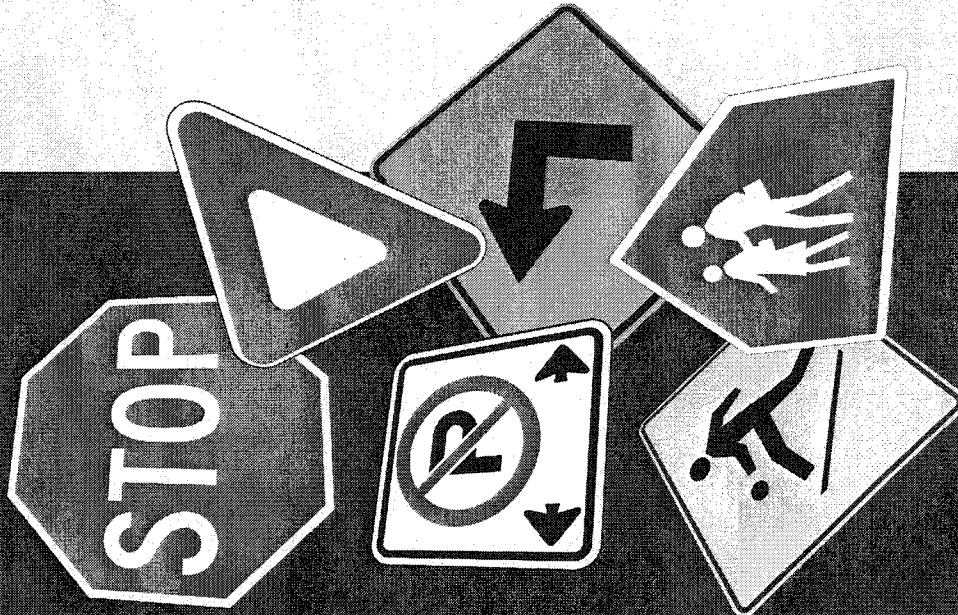


Regulatory and Warning Traffic Signs

Example:

All-Way Stop Signs:

- one of the most common requests by Councillors and residents
- normally originate from speeding concerns on the street
- regulate right-of-way within the intersection
- disrupt the flow of traffic
- introduce delay to all drivers within the intersection
- increase fuel consumption and emissions



Regulatory and Warning Traffic Signs

Process:

When an all-way stop request is received:

- Staff conduct on site vehicle turning movement counts during peak traffic hours
- Geometrics and site lines within intersection reviewed
- collisions reviewed and analysed
- volumes and collisions applied against warrants



Regulatory and Warning Traffic Signs

All-Way Stop Signs:

Standards followed by staff when considering all-way stop requests:

- should be used for the purpose of assigning rights-of-way at an intersection
- should be used at locations having a high collision frequency which may be susceptible to relief through all-way stop control.
- should be installed only after Provincial warrants have been met (as detailed below) and full consideration is given to safety and efficiency of the intersection.
- may be considered as an interim measure where traffic signals are warranted.
- should not be used as speed control devices.



Regulatory and Warning Traffic Signs

Warrants for Arterial and Collector Roads

- Total vehicle volume on all intersection approaches exceeds 500 vehicles per hour for each of any eight hours of the day, and
- The combined vehicular and pedestrian volume on the minor street exceeds 200 units per hour for each of the same eight hours, and
- The volume split does not exceed 70/30.

Warrants for Minor Roads

- Total vehicle volume on all intersection approaches exceeds 350 for the highest hour recorded, and
- Volume split does not exceed 75/25 for three-way control and 65/35 for four-way control.

Collision Warrants

- Average of 4 collisions per year over a 3 year period.



Regulatory and Warning Traffic Signs

- Staff time to review
- Requests brought to Council for approval prior to carrying out the Study
- Results relayed to Council.

