SUBJECT: Safety Audit - Intersection of Brock Road and Regional Road # 97 (PW06016) - (Ward 14)  
Public Works, Infrastructure & Environment Committee Outstanding Business List

RECOMMENDATION:

(a) That “Tiger Tails” be installed on the existing northbound and southbound stop sign posts on Brock Road at Regional Road # 97.

(b) That stop bars be painted for the existing northbound and southbound stop control on Brock Road at Regional Road # 97.

(c) That the item relating to intersection located at Brock Road and Regional Road 97 be removed from the Public Works, Infrastructure & Environment Committee Outstanding Business List.

EXECUTIVE SUMMARY:

Councillor Dave Braden, at the Public Works Infrastructure and Environment Committee meeting held October 3, 2005, requested a report from staff detailing any possible safety improvements for the intersection of Brock Road and Regional Road # 97. Staff also received concerns directly from residents in this area, subsequent to a recent vehicular collision at this intersection. One resident requested a “Flashing Red Light”. Staff has concluded that an all-way stop, Flashing Red Light or traffic signal is not warranted at this intersection at this time.
Traffic Section records indicate that this intersection has experienced an average of 1.4 collisions per year, over the past five years. Five of the seven reported collisions which have occurred at this intersection involved motorists that failed to observe the stop control on Brock. A site visit revealed the existing stop signs are well located and readily visible. Sight lines for northbound and southbound traffic on Brock at Regional Road # 97 are acceptable. In order to address this non-compliance matter, staff is recommending that “Tiger Tails” be installed on the existing stop sign posts on Brock as well as painting stop bars for the existing stop controls.

BACKGROUND:

The information/recommendations contained within this report primarily affect Ward 14. Councillor Dave Braden, at the Public Works Infrastructure and Environment Committee meeting held October 3, 2005, requested a report from staff detailing any possible safety improvements for the intersection of Brock Road and Regional Road # 97. Staff also received concerns directly from residents in this area, subsequent to a recent vehicular collision at this intersection. One resident requested a “Flashing Red Light”. Staff has concluded that an all-way stop, Flashing Red Light or traffic signal is not warranted at this intersection at this time.

Traffic Section records indicate that this intersection has experienced an average of 1.4 collisions per year, over the past five years. Five of the seven reported collisions which have occurred at this intersection involved motorists that failed to observe the stop control on Brock. There are existing “Intersection Ahead” signs in place on Regional Road # 97 approaching Brock Road and there are existing “Stop Ahead” signs on Brock Road approaching Regional Road # 97. A site visit revealed the existing stop signs; “Stop Ahead” and “Intersection Ahead” signs are all well located and readily visible. Sight lines for northbound and southbound traffic on Brock at Regional Road # 97 are acceptable. In order to address this stop sign non-compliance matter, staff is recommending that “Tiger Tails” be installed on the existing stop sign posts on Brock as well as painting stop bars for the existing stop controls.

ANALYSIS/RATIONALE:

Staff reviewed existing intersection sight lines, pavement markings; visibility of all traffic related signs as well as the collision record for this intersection and found them to be fine. Staff subsequently concluded that an all-way stop, flashing light (red or amber) or traffic signal is not warranted at this intersection.

The traffic signal warrant system considers factors such as pedestrian volumes, vehicular volumes and the number of traffic lanes approaching an intersection. While a formal traffic signal study was not undertaken, casual observations revealed that the vehicular traffic volumes are far below the threshold of 170 vehicles per hour on the minor road and 720 vehicles per hour on the major road for a 7-hour period, which is what would be required to warrant a traffic signal at this location.

Notwithstanding the above, since five of the seven collisions which have occurred at this intersection over the past five years involved motorists that failed to observe the stop signs on Brock, staff are recommending that stop bars be painted on Brock as well as
installing tiger tails on the existing stop signs in an effort to enhance the visibility of the existing stop condition on Brock.

**ALTERNATIVES FOR CONSIDERATION:**
One alternative would be to take no action. The collision record for this intersection is reasonable, only 1.4 collisions per year over the past five years. A flashing red light is not appropriate since there has not been a documented collision pattern and there are no unusual conditions that would warrant the use of a flashing red or amber light, the use of which should be restricted to critical situations only, to ensure that their impact is not lost due to overuse.

**FINANCIAL/STAFFING/LEGAL IMPLICATIONS:**
Sufficient funds are available to cover the costs on manufacturing, erecting and maintaining the recommended signs.

**POLICIES AFFECTING PROPOSAL:**
The policies governing all-way stop controls and traffic signals indicate an all-way stop or traffic signal is not warranted at this intersection.

**RELEVANT CONSULTATION:**
N/A

**CITY STRATEGIC COMMITMENT:**
By evaluating the “Triple Bottom Line”, (community, environment, economic implications) we can make choices that create value across all three bottom lines, moving us closer to our vision for a sustainable community, and Provincial interests.

- **Community Well-Being is enhanced.** ☑ Yes ☐ No
  The implementation of “tiger tails” and painted stop bars will enhance the visibility of the stop condition on Brock and potentially increase safety at this intersection.

- **Environmental Well-Being is enhanced.** ☐ Yes ☑ No

- **Economic Well-Being is enhanced.** ☐ Yes ☑ No

- **Does the option you are recommending create value across all three bottom lines?**
  ☐ Yes ☑ No

- **Do the options you are recommending make Hamilton a City of choice for high performance public servants?**
  ☐ Yes ☑ No
LOCATION PLAN

Intersection of Brock Road and Regional Road # 97

CITY OF HAMILTON
Public Works Department

LEGEND

Recommended Safety Improvements

SCALE NOT TO SCALE DATE 2006-02-01

REFERENCE FILE NO: PW06016