

Title: Intersection Type, Hwy 59:02/ Hwy 723:02 / Rge Rd. 100 km 21.349, Valhalla Centre

Memorandum (or Approval) Date: December 18, 2012

Design Exception Request Date: December 7, 2012

Region: Peace

Approval Status: Approved

Project Location					
Highway	Control Section	At km	From km	To km	Existing AADT
59	02	21.349			920
723	02	23.940			540

Project Type (Mark all that apply with an X)			
Functional Planning:	New Construction: X	Reconstruction:	Paving/Surfacing: X
Bridge:	Operations:	Geotechnical:	Environmental:
Other:			

Summary
Design exception request is for maintaining the existing modified Type 2/ Type 1 intersection treatment. Improving the existing intersection to the warranted treatment and service road concept would require additional R/W which would significantly impact the existing surrounding properties and accesses. Based on the HGDG (Updated 1999), Chapter D.7 Intersection Treatment – Two Lane Undivided Highways, a Type 2c intersection would typically be warranted

Rationale for Approval/Rejection
<ul style="list-style-type: none"> We agree with the proposed recommendation on the 600 mm wide stop bar line which is typically used for rural intersection applications. The enhancement of traffic control devices to improve safety at rural stop-controlled intersections should follow the philosophy outlined in the attached guideline “Safety Measures at Rural Stop-Controlled Intersections - Revised September 2011”, which advocates for staged improvement approach. Based on the warrants in this guideline, no further traffic control device enhancements would appear to be required at this time at this intersection. The proposed 1200 mm x 1200 mm Stop sign, Stop Ahead markings and Stop Ahead sign should only be used where they are warranted. According to the area MCI’s records (refer to attached email of December 17, 2012), the existing 900 mm x 900 mm Stop sign on Rge, Rd. 100 was installed on September 22, 2010. The second fatal collision occurred on August 24, 2010. The proposed recommendation to replace the existing Stop sign with a 1200 mm x 1200 mm Stop sign should not be considered at this time. There has been two fatal collisions for the five year period from 2006 to 2010 and only two other collisions, both PDO (1 non animal and 1 animal) reported for the 16 year period from 1995 to 2010. Historically, the intersection appears to be operating well.

- The intersection is illuminated. Hwy 59 and both intersecting legs are posted at 50 km/h. Intersection sight distance is adequate for all design vehicles using the intersection on a daily basis.
- Low AADT in the design year. 1290 vpd on Hwy 59 and 760 vpd on Hwy 723.

Additional Mitigation Required

Install 600 mm wide stop bar line which is typically used for rural intersection applications.

Key Words

Intersection, intersection warrant, intersection type.

Photograph/Diagram (If Available)



