

**Title: Hwy 668:02, East of Hwy 40. Pavement Width below 3R/4R Guidelines.**

Memorandum (or Approval) Date: April 20, 2012

Design Exception Request Date: March 9, 2012

Region: Peace

Approval Status: Approved

Project Location					
Highway	Control Section	At km	From km	To km	Existing AADT
668	02		0.0	3.43	4022

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

Summary
<p>The design exception request is for the proposed surfacing strategy recommendation of 80 mm full width milling followed by a 110 mm ACP overlay. The existing average pavement width is 9.3 m. Following the recommended pavement rehabilitation, the average pavement width will be 9.0 m. For a Level 4 service class roadway and an existing AADT of 4022, the resultant pavement width will be below the AT HGDG 3R/4R Guidelines of 10.0 m, based on Figure G 1.1, Suggested Minimum Roadway Width, October 2008.</p>

Rationale for Approval/Rejection
<ul style="list-style-type: none"> <li>The collision rate for the 5 year period from 2005 to 2009 the non-animal and animal collisions are below the benchmark values of similar roadways.</li> <li>The anticipated growth rate is approximately 1.56%. Existing AADT of 4022 vpd. For an existing AADT below 4000 vpd, the 3R/4R Suggested Minimum Roadway Width is 9 m.</li> <li>The posted speed is 80 km/h and design speed is 90 km/h.</li> <li>According to the Consultant, the project's vertical alignment minimum sag and crest K values are 40 and 55 respectively. Existing sag and crest K values meets new construction minimum K values of 40 and 40 respectively for design speed 90 km/h.</li> </ul>

Additional Mitigation Required
None indicated on the request.

Key Words
3R/4R guidelines, service class, cross-section, suggested minimum roadway width, vertical alignment, paving strategy.

Photograph/Diagram

2008.09.15 668:02:C1 DL:R1 km 2.164 JCT HWY 40 NE 36-70-6-W6 55.112453 -118.786691 657.1

