

Bridge Inspection										
Bridge File Number	02240 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1987/1987				Lot No.	1				
Bridge or Town Name	GLENDON				Inspector Name	Wade Nanninga				
Located Over	THINLAKE RIVER, 7.12.4, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	28:15 C1 35.964				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Apr-2012				
Legal Land Location	NE SEC 12 TWP 60 RGE 8 W4M				Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-111:03:47, 54:10:24				Data Entry Date	24-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA08				Review Date	17-Apr-2012				
Clear Roadway/Skew	11.6 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	2,390 / 2011 (A)				Dept. Review Date	04-May-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	20									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span

Posting Information										
Required Load Posting (t)	Single				Semi				Truck Train	
Posted Loading (t)	Single				Semi				Truck Train	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	All markers attached to first guardrail posts off bridge. Not to standard height. Not correct position.									
Other Sign Types	Thin Lake River.									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	South r/w.				Gas					
Power	2 wires South 50m				Municipal					
Others					Problem (Y/N)		No			
Remarks	AT&U BM at NE corner #54111-100. Top of new curtain wall.									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Horizontal curve beyond crest curve to east. 5% grade up to east. No passing EB.					
Vertical Alignment		6	7						
Roadway Width (m)	11.200				Full width wide transverse crack in ACP at end of approach slab, typical both ends. East approach settled causing slight dip - photo. Settled @ E end - crack @ approach slab 99m with radius @ NE to accommodate approach. 99m @ SE. 42m @ NW & SW, not to standard length. Not thrie beam transition.				
Approach Bump	5	4							
Guardrail (Y/N)	Yes								
Guardrail	7	7							
Length (m)	42.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage	7	7							
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 36, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Random transverse cracks at about 4 - 5m on center.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>90</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	(Fibre board install in joint then paved over to seal gap. 2001/09/22)
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			4	4	Drains to West on wearing surface. Retrofit drain installed @ SW corner, too short, rust staining bottom of girder.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Concrete has aggregate in it that is popping. Curbs have flex cracks. Curb spalled under South post 4 - photo.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			8	8	Post A/B extension / strengthening on 2nd post in each corner only. Grout post cracking 10%  Bottom of post plates rusting.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	G4 delam crack along bottomflange extending from masonry plate - photo
<b>Last</b>	0	0	0	1	
<b>Now</b>	0	0	0	1	
Girders			3	3	Hairline cracks extend into web up to 1.5m past tapered section on 75% of girders. Rust stains in bearing area @ East end on 7 out of 9 girders (old stains). Small chip in G4 bottom flange edge .Construction damage  Med ck extends from diaphragm into bottom flange @ E. end of G1,G2, &G5 in bearing area.-photo
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : <b>9</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 36, A-Ident Number: )				
Diaphragms/Cross Frame		5	5	Cast in place concrete diaphragms. 2 cracked @ East end.
Bearings		8	8	
Temperature (deg. C)	5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	4	cracking b/w connector pockets at SE corner with staining
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		8	8	
Bank Stability		9	9	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Class I rock on channel bank only.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>8</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch curb behind P4 south curb					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Seal crack in ACP @ E end					
OTHER ACTION	2012	Reinstall hazard markers to standard height and location.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.2/60.1</b>	Est. Repl. Yr	2050	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracks and rust stains		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Shane Hall		Previous Assistant's Name				
Next Inspection Date	10-Jan-2014		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							