

Bridge Inspection										
Bridge File Number	77321 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1971/1971				Lot No.	2				
Bridge or Town Name					Inspector Name	Brian Pientsch				
Located Over	LOON RIVER, 8.10.18.12, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	88:10 C1 0.021				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	18-Jun-2012				
Legal Land Location	NE SEC 26 TWP 87 RGE 9 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:18:29, 56:34:45				Data Entry Date	19-Nov-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA02				Review Date	01-Nov-2012				
Clear Roadway/Skew	9.1 / -15 deg. (LHF)				Dept. Reviewer Name	David Morrison				
AADT/Year	370 / 2011 (A)				Dept. Review Date	11-Jan-2013				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20						----> Primary Span			

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone					Gas	Edge of East r/w				
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	In gradual sag curve.				
Vertical Alignment			6	6					
Roadway Width (m)	11.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	25.000				Insufficient number of posts adjacent to bridge.				
Current Standard (Y/N)	No								
Termination Type	turned down								
Drainage			3	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 17.7-17.7-17.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	20	0	0	0	
Now					
Wearing Surface			9	8	fibre reinforcement
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			9	9	
Deck Joints			8	4	2 snowplow guards broke off on pier 1 joint.
Temperature (deg. C)		15			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75			N. Pier		
75			S. pier		
Deck Drainage			5	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	Double layer - improperly spliced. Rail blocked out by double 6 x 8 TT blocks to match curb face.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	2	
Now				2	
Girders			3	3	(Span 1) - G8-Minor backhoe scrapes on bottom of girder, Gg10 - HL crack with rust stains due to minimal cover (photo). G1 - Minor chip bottom outside edge from maint. work. Span 2 - G1 - G5 chips on outside (u/s) edge. G10 -G8S3 narrow CR. 633mm long with efflorescence near CL.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 17.7-17.7-17.7, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	.
Bearings		7	7	
Temperature (deg. C)	15			
(Expansion Type :)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	Yes			20mm misalignment from skew pressure. Visible at piers.
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : PRECAST CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : PRECAST CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		4	4	Scaling at waterline with just primer.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	Yes			Minor drift at north pier bent.
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	N HEADSLOPE SLOUGHING. Not affecting structure. At south headslope is Class I.
(Type : RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
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	Replace missing snowplow guards on pier joint 1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	50.2/48.9	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor N headslope sloughing. Monitor HL girder cracks.		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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	18-Mar-2014		Previous Inspection Date	08-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							