

Bridge Inspection										
Bridge File Number	00977 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1977/1977				Lot No.	2				
Bridge or Town Name	JOFFRE				Inspector Name	Jason Saly				
Located Over	RED DEER RIVER, 3, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	11:14 C1 8.884				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	14-Feb-2012				
Legal Land Location	NW SEC 13 TWP 38 RGE 26 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:35:32, 52:16:11				Data Entry Date	08-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA19				Review Date	28-Feb-2012				
Clear Roadway/Skew	11 / 25 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	4,280 / 2010 (A)				Dept. Review Date	09-Mar-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	6									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member			
Design Loading:	HS25						---> 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)	No									
Remarks	Not required.									
Other Sign Types	Curves (both directions). Slippery Road.									
Utilities (Located at)										
Utility Attachments										
Telephone	Plowed in North ditch.				Gas					
Power	One wire OH 30m South of c/l; 1 OH crosses road ~20m E of bridge.				Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			5	5	Steep hills & curves both ends. Approaches both ends all corners.					
Vertical Alignment			5	5	Climbing lanes in both directions.					
Roadway Width (m)	11.000									
Approach Bump			6	5						
Guardrail (Y/N)	Yes				2 wrong laps on guardrail at NW & SE at terminal ends (buried, no problem).					
Guardrail			4	4						
Length (m)	87.000				Not thrie beam.					
Current Standard (Y/N)	No									
Termination Type	Turn Down									
Drainage			4	4	(NW curb gap to ACP. 30Mar2010). Minor spalling to trough drains. Erosion at SW wing & NE wingwall.					
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 4 Spans, Lengths(m): 45.7-56.4-56.4-45.7, A-Ident Number: A0808-01</b> )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Gutters covered by dirt & snow.	
<b>Last</b>						
<b>Now</b>	2.0	0.0	0.0	0.0		
Wearing Surface				6	6	HDOL. (Chipseal stops 0.3m short of curb, typical. 30Mar2010). Spot delam of chipseal totalling 2m2 on top of epoxy deck protection on HDOL.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	4	EBL paving lip failing/spalled. Cold mix patch in 300 x 200 pothole @ SE joint failing.	
Temperature (deg. C)		-5				
(Expansion Type : <b>FINGER PLATES</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
85		Abutment 1				
100		Abutment 2				
Deck Drainage			7	7	No conditional defects other than galvanizing at bottom of trough is now rusted. Suspect overflow during icing conditions. Stains on abut seat.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Vertical cracks in curb face. Curbs patched and sealed. Some corrosion staining, exposed rebar. Small spalls S curb.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		1				
Bridge Rail			7	7	2% of AB's not long enough.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X	Looked through binoculars from bank and appears o.k.	
Flange			7	7		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
<b>(Primary Span : WG, 4 Spans, Lengths(m): 45.7-56.4-56.4-45.7, A-Ident Number: A0808-01)</b>				
Paint Condition		7	7	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		6	6	Viewed through binoculars to piers, appears OK. Grout pad at SE corner in E abut is cracking/deteriorating.
Temperature (deg. C)	-5			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Some leaching under side of deck starting. Efflorescence at some cracks.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	Some cracking, minor.
Piles		N	N	
Paint/Coating		4	4	Some peeling.
Abutment Stability		8	8	
Scour/Erosion		4	4	A1 hslp subsided approx 0.3m - photo. SW wing 2.4m x 0.8m x 0.3m erosion. Also, erosion at teh NE wingwall.
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				Some wide cracking in shaft @ P1,2.
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	Galvanized.
Paint/Coating		6	6	Some cracking/peeling.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		6	N	
Debris (Y/N)	Yes			Minor drift caught at P3.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		5	5	Large vertical bank to NE.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Clump of drift caught in P3.
Slope Protection		6	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK	2012	Patch delam chipseal areas.								
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Patch curb spalls 0.1m3 OH-V.								
OTHER ACTION	2012	Fill SW wingwall erosion 1.0m3 pitrun.								
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/61.9</b>	<b>Est. Repl. Yr</b>	<b>2050</b>	<b>Maint. Reqd. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	2008 CSE report estimates major rehab required btwn 2032-2037.		Department Comments							
Maintenance Reviewed By	CSE 2008 predicts rehab 2035. Readings ok. minor repairs required. RS		Date	Estimated Total	0					
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Chris Black							
Next Inspection Date	14-Nov-2013	Previous Inspection Date	30-Mar-2010							
Inspection Cycle (Default) (months)	21									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2012	Patch delam chipseal areas.	programmed			
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Patch curb spalls 0.1m3 OH-V.	defer			
OTHER ACTION	2012	Fill SW wingwall erosion 1.0m3 pitrun.	defer			
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/61.9</b>	Est. Repl. Yr	2050	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	2008 CSE report estimates major rehab required btwn 2032-2037.		Department Comments	DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	22-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	CSE 2008 predicts rehab 2035. Readings ok. minor repairs required. RS					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name	Chris Black		

Next Inspection Date	14-Nov-2013	Previous Inspection Date	30-Mar-2010
Inspection Cycle (Default) (months)	21		
Comment			