

Bridge Inspection									
Bridge File Number	73621 -1 Bridge					Form Type	PSR		
Year Built/Year Supstr	1965/1965					Lot No.	2		
Bridge or Town Name	ALIX					Inspector Name	Owen Salava		
Located Over	CNR					Inspector Class	BR CLS A		
Located On	12:12 C1 12.322					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	30-Aug-2012		
Legal Land Location	SE SEC 36 TWP 39 RGE 23 W4M					Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:10:46, 52:23:44					Data Entry Date	18-Sep-2012		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien		
Contract Main. Area	CMA20					Review Date	06-Sep-2012		
Clear Roadway/Skew	13.7 / -6 deg. (LHF)					Dept. Reviewer Name	Andrew Smikles		
AADT/Year	1,750 / 2011 (A)					Dept. Review Date	18-Sep-2012		
Road Classification	RAU-213.4-110					Follow-Up By			
Detour Length (km)	6								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)					No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											
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					Max 50 kph, Information.							

Utilities (Located at)									
Utility Attachments									
Telephone	North and South r/w.					Gas			
Power	3 lines OH 30m North, 20m from c/l.					Municipal			
Others						Problem (Y/N)	No		
Remarks									

Approach Road									
					<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>		
Horizontal Alignment					7	7	Intersection 500m East.		
Vertical Alignment					6	6	On top of crest curve - limited sight distance.		
Roadway Width (m)					13.500				
Approach Bump					7	7			
Guardrail (Y/N)					Yes				
Guardrail					4	4	Wrong lap NE and SW.		
Length (m)					99.000				
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 : PM, 3 Spans, Lengths(m): 12.2-13.7-12.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			9	9	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>77</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	
Temperature (deg. C)		21			
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
20		W. abut			
21		W. pier			
45		E. pier			
21		E. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts			6	6	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			7	7	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>48</b> )					

Old stains on seat, cannot confirm at this time if it is from active leaking.

No drains.

SW corner S2 curb broken off (photo).

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>PM, 3 Spans, Lengths(m): 12.2-13.7-12.2, A-Ident Number: )</b>				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	21			
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )				
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Water stains from old joint leakage & train diesel smoke.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</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		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		6	6	Map cracks at north end of west pier cap. Minor cracking South end of East pier. Stains from previous leaking joints.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>7:7</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Rusting at bottoms of piles. Graffiti.
(Colour Description : <b>BLUE</b> )				
(Colour Code : <b>15182</b> )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		X	X	
Type	None			
Slope Protection		6	6	Settled 200 mm East, & 100 mm West.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</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 SW corner S2, 0.05m3 OH-V.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>71.1/71.1</b>	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2007.04.07 Replace ACP and membrane & check membrane by 2012. With normal maintenance bridge should be good until 2050.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	30-May-2014		Previous Inspection Date	26-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							