

Bridge Inspection										
Bridge File Number	00457 -1 Bridge				Form Type	CON				
Year Built/Year Supstr	1959/1959				Lot No.	1				
Bridge or Town Name	CARBON				Inspector Name	Owen Salava				
Located Over	CPR				Inspector Class	BR CLS A				
Located On	21:14 C1 11.898				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	17-Sep-2012				
Legal Land Location	SW SEC 19 TWP 29 RGE 23 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:13:56, 51:29:30				Data Entry Date	02-Oct-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA20				Review Date	27-Sep-2012				
Clear Roadway/Skew	11.6 / 31 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	1,840 / 2011 (A)				Dept. Review Date	18-Oct-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	20									
Allowable Load (t):	Single	CS1 31 GIRDER	Semi	CS2 49	Train	CS3 64 GIRDER	---> 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	EB	On Bridge (m)	In Advance (Y/N)	No	Lane	WB	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	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										Not required.

Hazard Marker At Bridge (Y/N)	No									
Remarks										
Other Sign Types	Curve, (Stream ID @ SE corner. - should be located at SE corner of BF06565).									

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Bridge is in a curve.
Vertical Alignment		5	5	Hills both sides. No passing both directions.
Roadway Width (m)	11.000			ACP delaminated at S paving lip.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Rail not attached @ SW, NE & NW corners - photo. SW rail end poses safety hazard if hit (photo).
Guardrail		3	3	
Length (m)	67.100			
Current Standard (Y/N)	No			Insufficient posts; not thrie beam.
Termination Type	TURNED DOWN			
Drainage		5	5	Large void at NW curb/slab interface. Edge delam at NW corner drain.
<b>Approach Road General Rating</b>		<b>3</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 3 Spans, Lengths(m): 17.1-23.8-17.1, 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>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Random cracking & random patches. (Over epoxy) ACP pushed toward curb at NW end of deck.
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Leakage at both abutments @ West.
Temperature (deg. C)		25			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
74	S abut				
71	N abut				
Deck Drainage			4	4	Retro drain causing erosion at NW and SW. 2 pipes broken off - photo.
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Heavy scaling some spalling both curbs (photos).
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		15			
Bridge Rail			6	6	Minor bends. Small crease in 5th panel from SE.  25% cracked @ some posts, worst at 3rd post from NE.
(Type : <b>CONCRETE VERTICAL BAR</b> )					
Bridge Rail Posts			5	5	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : )					
Sidewalk			X	X	
Girders			5	5	Some girder ends with heavy scaling & cracking - worst at S1G3 3rd abut.
Diaphragms/Cross Frame			6	6	
Bearings			6	6	Rollers @ abutments. Rockers @ S pier, pinned at N pier.  40% corrosion pitted at exterior at abutments.
Temperature (deg. C)		25			
(Expansion Type : <b>ROLLER BEARING</b> )					
(Fixed Type : <b>ROCKER BEARING</b> )					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			
Deck Underside			7	7	Flexural cracks found in some girders with up to 0.20 mm width.
Stains (Percent Area)		1			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Lengths(m): 17.1-23.8-17.1, A-Ident Number: )				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		3	4	NW seat heavy scaling (photo).
Backwalls/Breastwalls		5	5	Stained/scaling.
Wingwalls		4	4	Heavy scaling at NE wingwall.
Piles		N	N	
Paint/Coating		4	4	Tar- peeling.
Abutment Stability		7	7	
Scour/Erosion		4	4	Large gully at N hslp (photo).
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Surface spalls @ West end both piers.
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		4	4	Erosion caused by deck drainage at NW & SW corners.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	Over decommissioned railway line.
Traffic Safety Features		X	X	
Type	NONE			
Slope Protection		6	6	Slope is 1:1 at South abutment.
(Type : <b>NATURAL; NATURAL</b> )				
Bank Stability		5	5	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	



Proposed Action		
Previous Inspector's Name	Dave Lam	Previous Assistant's Name
Next Inspection Date	17-Jun-2014	Previous Inspection Date
Inspection Cycle (Default) (months)	21	11-Nov-2010
Comment		



Special Comments for Next Inspection	(Remove structure when hwy is upgraded. 16Feb2009). Defer all repairs where not safety related until structure is removed.	Department Comments	Rehab programmed for 2017		
Maintenance Reviewed By	Andrew Smikles	Date	03-Dec-2012	Estimated Total	0
Proposed Long-Term Strategy	Rail road gone, remove about 2024. RS				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Dave Lam	Previous Assistant's Name			
Next Inspection Date	17-Jun-2014	Previous Inspection Date	11-Nov-2010		
Inspection Cycle (Default) (months)	21				
Comment					