

Bridge Inspection									
Bridge File Number	76913 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1973/1973				Lot No.	2			
Bridge or Town Name	CARVEL				Inspector Name	Wade Nanninga			
Located Over	CNR				Inspector Class	BR CLS A			
Located On	770:06 C1 19.719				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Oct-2012			
Legal Land Location	SW SEC 34 TWP 52 RGE 2 W5M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-114:13:09, 53:31:47				Data Entry Date	30-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	25-Oct-2012			
Clear Roadway/Skew	10.1 / -25 deg. (LHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,920 / 2011 (A)				Dept. Review Date	13-Nov-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	10								
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	EB	On Bridge (m)		In Advance (Y/N)		Lane	WB	On Bridge (m)		In Advance (Y/N)	
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)	Yes											
Remarks	Missing NE. All markers attached to 1st guardrail post, too low. Not to standard.											
Other Sign Types	Information, Curve.											

Utilities (Located at)											
Utility Attachments											
Telephone					Gas						
Power	1 line crosses 60m North.				Municipal						
Others	Telegraph, railway communication line under bridge.				Problem (Y/N)	No					
Remarks											

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curves approximately 200m from both ends. Typical crest curve over RR limiting sight distance.					
Vertical Alignment		6	6						
Roadway Width (m)		9.300		All corners have creases but functional.					
Approach Bump		7	6						
Guardrail (Y/N)		Yes							
Guardrail		5	5						
Length (m)		34.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage		6	6						
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PJO, 3 Spans, Lengths(m): 15.24-20.11-16.76, 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>					
<b>Now</b>					
Wearing Surface			7	7	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>140</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	4	Missing 3-4 snow plough deflector @ both abutments
Temperature (deg. C)		13			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
65		North abutment			
70		South abutment			
Deck Drainage			7	7	
Drains Clogged (Y/N)					
Curbs/Median			6	6	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			8	8	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		8	8		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		7	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Girders			6	5	Rust spots under curb units near bearings not associated with steel, weep holes. Skew corner spall off G7, South span. Med long crack SP3G3
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : <b>21</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PJO, 3 Spans, Lengths(m): 15.24-20.11-16.76, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	13			
(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	6	Water stains at one location near c/l of span 3 and stain around weepholes. Exhaust stains SP2
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>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		5	5	Old stains on caps. Vertical crack West end South cap. East end South cap patched. Medium vertical crack North cap @ West end.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>5:5</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		5	5	5% of paint coating has failed. Rust spots.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		5	5	Minor buckling. North headslope has settled 170mm down and 90mm out at the NW corner. Bottom two sections of North slope protection has cracked and buckled.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		8	8	
Drainage		8	8	
<b>Grade Separation General Rating</b>		<b>5</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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace missing plow deflectors					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace NE HM					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>62.4/63.0</b>	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	15-Jan-2016		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							