

Bridge Inspection												
Bridge File Number	76540 -1 Bridge					Form Type	PSR					
Year Built/Year Supstr	1968/1968					Lot No.	1					
Bridge or Town Name	PONOKA					Inspector Name	Owen Salava					
Located Over	CPR					Inspector Class	BR CLS A					
Located On	53:08 C1 5.022					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	28-Nov-2012					
Legal Land Location	SW SEC 4 TWP 43 RGE 25 W4M					Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:34:48, 52:40:07					Data Entry Date	06-Dec-2012					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien					
Contract Main. Area	CMA17					Review Date	04-Dec-2012					
Clear Roadway/Skew	16.1 / 7 deg. (RHF)					Dept. Reviewer Name	Andrew Smikles					
AADT/Year	5,820 / 2011 (A)					Dept. Review Date	10-Dec-2012					
Road Classification	RAU-213.4-120					Follow-Up By						
Detour Length (km)	6											
Allowable Load (t):	Single			Semi		Train					----> On Critical Spans	
Design Loading:	HS20											----> Critical Member
											----> Primary Span	
Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)	
Remarks												
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	EB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Remarks												
Hazard Marker At Bridge (Y/N)		No										
Remarks		Not required.										
Other Sign Types		HS20										
Utilities (Located at)												
Utility Attachments												
Telephone	South row					Gas						
Power	Telegraph line under bridge					Municipal						
Others	Street lights N shoulder. Fiber optics - south row.					Problem (Y/N)	No					
Remarks												
Approach Road												
					Last	Now	Explanation of Condition					
Horizontal Alignment					5	5	Town intersection West end. On grade with limited sight distance to the West.					
Vertical Alignment					6	6						
Roadway Width (m)		16.200					Not attached to bridge. Not thrie-beam					
Approach Bump					7	7						
Guardrail (Y/N)		Yes										
Guardrail				6	6							
Length (m)		24.000										
Current Standard (Y/N)		No										
Termination Type		TURNED DOWN										
Drainage					6	6	NE drain trough is cracked but functional.					
<b>Approach Road General Rating</b>					<b>5</b>	<b>5</b>						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-15.2-15.2, 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			7	7	Chipcoat; 15mm thickness. (Epoxy membrane. Could not confirm.)	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	4	(Active leakage at A1 P1 in WBL & AB at S end. 15Oct2009). Stains remain but no moisture at this time.	
Temperature (deg. C)		-11				
(Expansion Type : <b>OTHER</b> )						
(Fixed Type : <b>OTHER</b> )						
Gap Size (mm)		Gap Location				
36		W Abut 1				
37		Pier 1				
31		Pier 2				
35		E Abut 2				
Deck Drainage			5	5	On grade, good drainage to E. No deck drains. Stain from jnt drainage at SW of A1 plus P1 cap below G1.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Spall over P2 N end. Exterior edge spall near A2.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		5				
Bridge Rail			6	6	Minor bend in 1 vert N side panel #6 from W.P2	
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )						
Bridge Rail Posts		4	4	(8 post A/B not fully engaged. 13Apr2011) - Snow covered. S1G1 has spall near post 5.		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating		6	6			
(Type : <b>GALVANIZED</b> )						
Sidewalk			5	N	(Isolated shallow spalls. 13Apr2011) - Snow covered.	
<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	2		
Girders			4	3	Minor rust staining both curbs SW span over W pier and on underside of S1G17 + S1G18. S1-G18. Vertical crack in S2G1 both ends. Minor spall in S1G1 over P1. Rating increase due to curbs; may not apply for exception list cracks.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>60</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		N	N	
Temperature (deg. C)	-11			
(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	Black staining from train exhaust over middle span.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		N	N	Not visible, behind girders.
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Graffiti covered; tar coating mostly gone.
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		5	5	Delam crack at u/s fo P1 N end.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>8:8</b> )				
Pier Shaft/Piles		7	7	Minor rust <1%.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Blue.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</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	NONE			
Slope Protection		6	6	Settled 150mm.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		X	X	
<b>Grade Separation 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							
SEAL CURBS	2013	Patch curbs.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Investigate and repair joint leakage, if not yet done.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Assess girder repair options.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.4/54.9</b>	Est. Repl. Yr	2030	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	Owen Salava	Previous Assistant's Name					
Next Inspection Date	28-Aug-2014	Previous Inspection Date	13-Apr-2011				
Inspection Cycle (Default) (months)	21						
Comment							