

Bridge Inspection										
Bridge File Number	13181 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1959/1959				Lot No.	2				
Bridge or Town Name	PONOKA				Inspector Name	Owen Salava				
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	53:06 C1 36.169				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	28-Nov-2012				
Legal Land Location	SE SEC 4 TWP 43 RGE 26 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:42:39, 52:40:25				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	9.1 / -20 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	1,930 / 2011 (A)				Dept. Review Date	10-Dec-2012				
Road Classification	RAU-209-110				Follow-Up By					
Detour Length (km)	8									
Allowable Load (t):	Single	CS1 33 GIRDER	Semi	CS2 49	Train	CS3 63 GIRDER	---> On Critical Spans --->Critical Member			
Design Loading:	HS20						---> 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)	Yes									
Remarks										
Other Sign Types	Battle River I.D.									
Utilities (Located at)										
Utility Attachments										
Telephone	Plowed in South ditch				Gas					
Power	1 wire OH 30m N of c/l.				Municipal					
Others					Problem (Y/N)		No			
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Long horiz curve to E through long gradual curve with 6% max. Grade to W is 6%. Passing lanes on both sides of bridge. Intersection to L/R 200 m W.					
Vertical Alignment			6	6						
Roadway Width (m)	12.000				Minor damage at all corners.  Thrie beam transition installed.					
Approach Bump			6	6						
Guardrail (Y/N)	Yes									
Guardrail			5	5						
Length (m)	99.000				Thrie beam transition installed.					
Current Standard (Y/N)	Yes									
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 : PO, 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 : )					
<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			4	5	(Wide transverse and longitudinal cracks at all spans. 11Apr2011). Worn chipseal at jnts - minor.
(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			6	6	
Deck Joints			4	5	Missing 8 snowplow guards A1-2, P1-5, P2-1 - minor.
Temperature (deg. C)		-10			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
75		W. abut			
100		W. pier			
55		E. pier			
70		E. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	4	20% of curb has delamination ck on outside. Spall S2 near P1 away from posts.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		50			
Bridge Rail			3	6	(50% of anchor bolts have insufficient thread. 11Apr2011). 3 posts, S rail S1, bent/dented.
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts		3	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	Some rust to 1 panel.
(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			4	4	Typical cracking @ shoe plates and minor spalls. Delam 300x300 & 150mm diagonal crack at S2G1 over P2.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number: )				
Diaphragms/Cross Frame		6	6	Bolts through girders rusting. 40% Paint failure of end diaphragms.
Bearings		6	6	
Temperature (deg. C)	-10			
(Expansion Type : <b>STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			Exterior brgs beginning to rust.
Deck Underside		7	7	Minor hairline longitudinal cracks between girders. Several previous full depth patches. Old underside forms remain.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Heavy staining due to leakage also much exposed aggregate from surface scaling. Wide vert cracks in S end of P2.
Bearing Seats/Caps		4	5	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		4	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Corrosion on nose plate.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	Ice covered.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>5</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		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	Concrete filled sandbags shoring up upper half of headslopes under bridge.
(Type : <b>CONCRETE; CONCRETE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel 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	2015	Replace 1 post at S.								
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS	2015	Recoat exterior bearings.								
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2015	Blast & paint bearings, pier nose plates.								
OTHER ACTION	2015	Replace curbs and upgrade rail.								
OTHER ACTION	2013	Patch girder.								
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.8/52.0</b>	<b>Est. Repl. Yr</b>	<b>2025</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date					<b>Estimated Total</b>	<b>0</b>			
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	11-Apr-2011							
Inspection Cycle (Default) (months)	21									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2015	Replace 1 post at S.	Defer until rehab	2017		
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS	2015	Recoat exterior bearings.	Defer until rehab	2017		
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2015	Blast & paint bearings, pier nose plates.	Defer until rehab	2017		
OTHER ACTION	2015	Replace curbs and upgrade rail.	Defer until rehab	2017		
OTHER ACTION	2013	Patch girder.	Defer until rehab	2017		
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.8/52.0</b>	Est. Repl. Yr	2025	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Rehab currently scheduled for 2017. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	17-Apr-2013	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	11-Apr-2011		
Inspection Cycle (Default) (months)	21					

Comment	
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