

Bridge Inspection										
Bridge File Number	75535 S-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1964/1964				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	2:26 L1 43.045				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	08-Mar-2013				
Legal Land Location	SE SEC 34 TWP 42 RGE 26 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:39:41, 52:39:28				Data Entry Date	26-Mar-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA17				Review Date	16-Mar-2013				
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Chris Black				
AADT/Year	23,260 / 2011 (A)				Dept. Review Date	28-Mar-2013				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 37 GIRDER	Semi	CS2 53 GIRDER	Train	CS3 73 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	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Curve to South.				
Vertical Alignment			7	7	Grade rises to North.				
Roadway Width (m)	11.200		ACP deteriorating along S paving lip.						
Approach Bump			7	7					
Guardrail (Y/N)			Yes		N end only.				
Guardrail			7	7					
Length (m)			76.000						
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN						
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PQ, 3 Spans, Lengths(m): 15.8-16.8-15.8, 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>	5.0	0.0	0.0	0.0	
Wearing Surface			4	4	(3 to 4 lines per span up to wide size. Localized delam in travel lanes over S pier (1.9 x 1.2) - photo. Patched but worn and deteriorating. 07Jan07). Chipsealed, worn off at centerline and in outside lane.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			5	5	
Deck Joints			7	6	ACP at S abut paving lip starting to deteriorate.
Temperature (deg. C)		-10			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
86		N. abut			
75		S. abut			
Deck Drainage			7	4	Corrosion stains on deck underside below shear key, S3G6,7.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	W curb has spalls at control jnts.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Minor bend in bottom rail - 50mm bow in E15 panel from North. Minor bends to some vertical bars, E15 panel. Spall on NE parapet up to 50 mm deep, 300 x 150 - photo. Retrofit rail installed and damaged elements are now redundant.
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts			7	7	
(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>	11	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			5	5	Spot rust staining girder deck underside between S3G6-7 - photo.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>33</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PQ, 3 Spans, Lengths(m): 15.8-16.8-15.8, A-Ident Number: )				
Diaphragms/Cross Frame		5	5	Corrosion stains & light scaling @ abutment diaphragms.
Bearings		5	5	S1G10 bearing plate not centered on pad at abutment. Superficial rust on exterior shoe and masonry plate. P1,2 A1,2
Temperature (deg. C)	-10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		X	4	Corrosion stains below shear key at bridge centreline.
Stains (Percent Area)	0			
<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/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	Minor drip gullies.
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Wide vertical crack East end North pier at bearing anchor bolts.
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Minor superficial corrosion @ 20%. Some corrosion spotting; wear near waterline. Silver.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Some erosion from abutments - small gullies (minor-no problem). Some riprap near N bank.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</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 W curb spalls, 0.1m3 OH-V.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2015	Replace chipseal.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2015	Paint nose plates.					
OTHER ACTION	2013	Restore shear key, S3G6,7.					
OTHER ACTION	2013	Assess crack repair under bearings; possible epoxy inject cracks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.1/59.1</b>	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for old rail & parapet.		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	08-Dec-2014	Previous Inspection Date	16-Sep-2011				
Inspection Cycle (Default) (months)	21						
Comment							