

Bridge Inspection							
Bridge File Number	78896 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1968/1968			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	53:08 C1 5.167			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	-113:34:41, 52:40:05			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	15.8 /			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	CS1 39 GIRDER	Semi	CS2 48 GIRDER	Train	CS3 64 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information								
Required Load Posting (t)	Single				Semi	49	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)	No							
Remarks	Not required.							
Other Sign Types	Municipal							

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others	Street lights North shoulder.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Typical Town intersections. On grade to the West.
Vertical Alignment		7	7	
Roadway Width (m)	16.800			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Not attached to bridge on North side, too low. SE end not turned down.
Guardrail		6	5	
Length (m)	39.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	4	Tree growing by NE lateral drain. Erosion channel along NW & NE hspls - minor.
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 21.3-24.4-21.3, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7	Ends of cable anchors beginning to rust.	
(Type : EXT LATER POST TENS)					
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		6	6		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7		
Temperature (deg. C)		-11			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
80		Abut 1 - Gland			
80		Pier 1 - Gland			
77		Pier 2 - Gland			
80		Abut 2 - Gland			
Deck Drainage		4	4	Good drainage to East, on grade & superelevated. No drains. Eroding NE hslp.	
Drains Clogged (Y/N)					
Curbs/Median		3	4	Small spall at SE, outside.	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail		3	6	20% of post is set @ curb top with no grout pad. 5% nuts not fully engaged.	
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		2	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		6	N	Sidewalk on North side only - snow covered.	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders		5	5	Typical cracking around shoe plate; shoe plate rusted. Water staining on N fascia due to improper drainage. S3G1 small delam at A2, sealed. #5 and #7 girder connection bolts missing nut & washer, E abut from S.	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 21.3-24.4-21.3, A-Ident Number: )				
Diaphragms/Cross Frame		4	4	Two diaphragms at West end of span 3 have rust spots and bottom delam cracks - no action.
Bearings		4	4	15% of the pads are bulged, distorted and slightly off of the grout pad.
Temperature (deg. C)	-11			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	S3G6,10 & S2G4 U/S has corrosion - minor.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		4	4	Graffiti throughout, some deterioration.
Abutment Stability		7	7	
Scour/Erosion		4	4	Small gullies North side of A1 & A2.
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 10:10)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	2% paint failure, dotted pattern. Light pitting. Looks like new paint on piles. Blue.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Pedestrian path under East span, timber retaining wall installed @ toe of East headslope.
(D/S Direction : <b>N</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	
(Type : <b>RIP RAP; RIP RAP</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>7</b>	<b>7</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 curb spall, 0.1m3.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fix drainage at NW & NE corner to direct flow away from bridge, if not yet done.					
OTHER ACTION	2013	Install bolt/washer at girder connection bolts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.2/58.2</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							