

Bridge Inspection							
Bridge File Number	07256 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1968/1968			Lot No.	2		
Bridge or Town Name	BOW ISLAND			Inspector Name	Jason Rusu		
Located Over	SOUTH SASKATCHEWAN RIVER, 2, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	879:06 C1 7.714			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Mar-2012		
Legal Land Location	SW SEC 17 TWP 11 RGE 11 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-111:28:37, 49:54:14			Data Entry Date	11-Apr-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24			Review Date	23-Mar-2012		
Clear Roadway/Skew	7.4 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	290 / 2011 (A)			Dept. Review Date	17-Apr-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	100						
Allowable Load (t):	Single	H 45 GIRDER	Semi	HS 49 GIRDER	Train	CS3 64 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)	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							
Other Sign Types	Curve, River ID						

Utilities (Located at)			
Utility Attachments			
Telephone	Both ends + under West curb.		Gas South end - 20m.
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves and hills at both ends.
Vertical Alignment		6	6	
Roadway Width (m)	8.500			Cracks in roof slabs & breaking @ South. Roof slabs are standard precast girders.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Not thriebeam.
Guardrail		7	7	
Length (m)	61.000			
Current Standard (Y/N)	No			
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 : <b>PO, 7 Spans, Lengths(m): 37.2-40.2-40.2-40.2-40.2-37.2, A-Ident Number: )</b>					
<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>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			X	5	Traverse cracks in span 2. Concrete deck.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	N	
Deck Rideability			7	7	
Deck Joints			5	5	
Temperature (deg. C)		7			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
100		South abutment			
110		North abutment			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			5	5	10% superficial corrosion. Insufficient TH road- 8 A/B nuts.
(Type : <b>VERTICAL BAR</b> )					
Bridge Rail Posts			5	4	
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	
(Type : <b>PAINT</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			7	7	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : <b>4</b> )					
Diaphragms/Cross Frame			6	6	Some surface rust - 5%.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 7 Spans, Lengths(m): 37.2-40.2-40.2-40.2-40.2-40.2-37.2, A-Ident Number: )				
Bearings		4	4	10 to 20 degree tilt at North bearings & @ pier #1 & 2. 10% corrosion pitted at abutments. Worst @ North. Pinned @ pier 3. Rocker @ all others.  North abut rockers over expanded (+ South abut rockers tilted toward stream @ -10deg. C). 22-Jan-2009
Temperature (deg. C)	7			
(Expansion Type : <b>ROCKER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
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 : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		X	X	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Minor cracks.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0:0:0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	90% superficial corrosion on nose plates.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	Spring Flow.
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>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	8.0			Grass on fencing.
Drift (Y/N)	No			
Slope Protection		7	7	Natural vegetation along South headslope, rock along North.
(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>8</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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2012	Paint abutment bearings, consider resetting at North.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
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>57.7/56.1</b>	Est. Repl. Yr	2035	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	17-Jun-2015		Previous Inspection Date	22-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							