

Bridge Inspection										
Bridge File Number	75701 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1968/1968				Lot No.	2				
Bridge or Town Name	SHARROW BRDG				Inspector Name	Owen Salava				
Located Over	RED DEER RIVER, 3, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	41:10 C1 3.836				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	18-Jul-2012				
Legal Land Location	NE SEC 1 TWP 23 RGE 2 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-110:08:59, 50:55:59				Data Entry Date	02-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA22				Review Date	31-Jul-2012				
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	500 / 2011 (A)				Dept. Review Date	07-Aug-2012				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	20									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> 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.								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	Multiple wires 300m East.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curve at South end. Bridge is built on a crest curve. No passing.					
Vertical Alignment		6	6						
Roadway Width (m)		10.600		Minor creases.					
Approach Bump		7	7						
Guardrail (Y/N)		Yes							
Guardrail		6	6						
Length (m)		99.000							
Current Standard (Y/N)		Yes							
Termination Type		Turned Down							
Drainage		5	5	Surface erosion @ A1 or A2.					
Approach Road General Rating		6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 4 Spans, Lengths(m): 48.8-61-61-48.8, A-Ident Number: A0566-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	(Fibre reinforced, long crack down the c/l for the entire length of bridge. 30/July/2008). Seal coated over FRSF concrete o/l. (2008 deck testing report indicated 52m2 debonded FRSF o/l. 30Mar2011).
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			X	X	
Deck Rideability			7	7	
Deck Joints			4	4	N finger plates jammed against one side. N plumbing appears to be functioning but is corroded at the E side. S plumbing has corrosion holes.
Temperature (deg. C)		28			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
20		Abut. North, c/l			
26		Abut. South, c/l			
Deck Drainage			4	5	Abutment plumbing corroded..
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Spall @ SW wing & curb.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			3	6	Post damaged S4 @ E.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			7	X	
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 48.8-61-61-48.8, A-Ident Number: A0566-01)				
Paint Condition		4	4	Rusting @ bottom laterals, bearings, diaphragms, & bottom flanges directly below deck weep tubes. Worst @ end 5m of girders @ abuts.
(Colour Description : GREEN)				
(Colour Code : 34350)				
Touchup Required (Y/N)	Yes			
Bearings		5	5	Over extended at both abuts and over expanded @ S abut. (P1 at 0mm. P3 at 10mm. 30/July/2008). Starting to corrode.
Temperature (deg. C)	28			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Old stains around weep tubes for average 200mm radius. Some white staining in localized areas.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	7	
Paint/Coating		4	4	Peeling at curtain walls.
Abutment Stability		5	5	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				Unknown.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Pier nose coating worn off 50%. Sealer peeling off D/S end & lower pier approx 5%.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)		River migrating S but straightened out by spur. Starting to erode 10m behind spur @ SW.		
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		4	4	Bank steep cut @ SW.
HWM (m below Top of Curb)		HWM not visible.		
Drift (Y/N)	No			
Slope Protection		4	4	Bank is eroding @ SW behind spur and has no rock around.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS	2012	Patch @ SW - 0.05m OH-V.								
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2012	Patch joint plumbing A2 & A1.								
RESET/ PAINT BEARINGS	2012	Reset abutment bearings.								
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP	2012	50m Class 2 @ SW spur.								
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2020	Determine if retrofit drains are required at major deck rehab.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	53.3/54.4	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date		Estimated Total 0							
Proposed Long-Term Strategy	2005.03.23 Next rehab will be about 2020. Bridge should be good until 2050.									
On 3-Year Program (Y/N)	Y									
Proposed Action	CSE Minor changes to strategy. Repairs in 2009 as necessary. RS									
Previous Inspector's Name	Jason Saly		Previous Assistant's Name							
Next Inspection Date	18-Apr-2014		Previous Inspection Date							
Inspection Cycle (Default) (months)	21		30-Mar-2011							
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS	2012	Patch @ SW - 0.05m OH-V.	Completed in 2011			
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2012	Patch joint plumbing A2 & A1.	Completed in 2011			
RESET/ PAINT BEARINGS	2012	Reset abutment bearings.	Defer until rehab 2017	2017		
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP	2012	50m Class 2 @ SW spur.	Defer until rehab 2017	2017		
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2020	Determine if retrofit drains are required at major deck rehab.	Defer until rehab 2017	2017		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	53.3/54.4	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Department Comments	Currently programmed for rehab in 2017. DA
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Maintenance Reviewed By	Darron Ahlstedt	Date	30-Jan-2013	Estimated Total	0
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Proposed Long-Term Strategy	2005.03.23 Next rehab will be about 2020. Bridge should be good until 2050.				
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On 3-Year Program (Y/N)	Y
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Proposed Action	CSE Minor changes to strategy. Repairs in 2009 as necessary. RS
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Previous Inspector's Name	Jason Saly	Previous Assistant's Name	
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Next Inspection Date	18-Apr-2014	Previous Inspection Date	30-Mar-2011
Inspection Cycle (Default) (months)	21		
Comment			