

Bridge Inspection									
Bridge File Number	00315 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1961/1961				Lot No.	2			
Bridge or Town Name	CARDSTON				Inspector Name	Garry Roberts			
Located Over	ST MARY RIVER, 2.12.20, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	5:04 C1 2.973				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Sep-2011			
Legal Land Location	SW SEC 23 TWP 3 RGE 25 W4M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-113:15:58, 49:13:29				Data Entry Date	25-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria			
Contract Main. Area	CMA25				Review Date	08-Oct-2011			
Clear Roadway/Skew	13.4 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	2,330 / 2010 (A)				Dept. Review Date	28-Oct-2011			
Road Classification	RAU-213-130				Follow-Up By				
Detour Length (km)	16								
Allowable Load (t):	Single	CS1 50 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 69 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 req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required								
Other Sign Types	CURVE, RIVER ID, curve								
Utilities (Located at)									
Utility Attachments									
Telephone	North ditch				Gas				
Power					Municipal				
Others	Pipeline crossing 150 m d/s.				Problem (Y/N)	No			
Remarks	Fibre optics @ N R/W								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	6	Curve to west.				
Vertical Alignment			7	7	Bottom of long grade.				
Roadway Width (m)	13.500								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				20 m OF TYPE VI @ NE				
Guardrail			7	7	Not thriebeam.				
Length (m)	20.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			7	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO (FM), 3 Spans, Lengths(m): 30.5-30.5-30.5, A-Ident Number:)					
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	30.0	0.0	0.0	0.0	
Wearing Surface			4	4	CHIPCOAT ON CONCRETE- 30% missing. Concrete deck appears good in exposed areas. Est 60mm total thickness Random med-wide cracks in exposed deck areas.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	6	
Deck Rideability			6	6	Slight camber bumps.
Deck Joints			6	6	
Temperature (deg. C)		12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
35		E. abut			
35		E. pier			
20		W. pier			
35		W. abut			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	LEACHING ALONG OUTSIDES BY POSTS, minor SCRAPES. Transverse cracks 1mm
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Bolted post A/B over abuts. and piers.
(Type : BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	6	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO (FM), 3 Spans, Lengths(m): 30.5-30.5-30.5, A-Ident Number:)				
Girders		6	6	GIRDERS-TYPICAL. CRACKS MED-WIDE IN FM EXTERIORS. DIAGONAL CRACKS @ TOP FLANGE TO WEB AREA - TYPICAL, END BLOCK CRACKS. 18 PO girders 6 FM Girders @ Exterior
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 24)				
Diaphragms/Cross Frame		6	6	@ DECK UNDERSIDE. HORIZ.MED WIDTH CRKS @ EXT. OF FM END BLOCKS.
Bearings		7	7	
Temperature (deg. C)	20			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Isolated LONGIT. NARROW CRACKS W/LEACHING
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Tar coated
Abutment Stability		8	8	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				100mm tall plates top of original pier bolted through both sides. 1 mm VERTICAL CRACK IN EAST
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Tight corrosion at nose plate. Pigmental sealer peeling.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	N	Too deep.
Debris (Y/N)	Yes			Drift @ piers
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				River approx 20 deg LHF skew.
(D/S Direction : N)				
Alignment		4	5	
Bank Stability		5	5	Cutbanks SW & NE
HWM (m below Top of Curb)	4.0			No visible HWM Drift at West pier.
Drift (Y/N)	Yes			
Slope Protection		5	6	Rock extended U/S Class 3 @ W bank. Class 3 @ E bank-is sparse & displaced @ SE - has concrete behind
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	5	

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	2012	At next oppurtunity on chip coat program.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2011	At piers					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	64.1/64.4	Est. Repl. Yr	2031	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	15-Jun-2013		Previous Inspection Date	18-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							