

Bridge Inspection									
Bridge File Number	00211 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1982/1982				Lot No.	2			
Bridge or Town Name	CARDSTON				Inspector Name	Jason Rusu			
Located Over	LEE CREEK, 2.12.20.8, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	501:00 C1 20.028				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Jun-2012			
Legal Land Location	NE SEC 36 TWP 2 RGE 26 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:20:32, 49:10:07				Data Entry Date	19-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	10-Jul-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	190 / 2011 (A)				Dept. Review Date	30-Jul-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS230						----> 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 required								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	South PROBABLE THRU VOID				Gas	CWNG-70 m West OF BRIDGE			
Power	X-ROAD 90m West OF BRIDGE				Municipal				
Others	3W				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	NE turn down and is 0.4 m above ground. Not thriebeam.				
Vertical Alignment			7	7					
Roadway Width (m)	9.100								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			3	3					
Length (m)	10.000								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating			3	3					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : DBT, 2 Spans, Lengths(m): 22-22, 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	10		
Now	0.0	0.0	0.0	10.0		
Wearing Surface			3	3	100mm concrete for 10m over pier - cracked and delaminated throughout. Cracked along grout keys and stained at underside.	
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			7	7	Tops of girders are wearing surface other than 10m over pier.	
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		6				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type : COMPRESSION SEAL (ACME SEALS))						
Gap Size (mm)		Gap Location				
46		w. abut.				
15		pier				
31		e. abut.				
Deck Drainage			7	7	CONCRETE DRAINS @ EAST APPROACH.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	7	Regular cracking throughout. TYPICAL 0.4 TO 0.6 m INTERVALS. Crks wide spread @ fascia	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8	TUBE RAIL DOUBLE ROW. SEVERAL POST CAPS ARE LOOSE	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating			8	8		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders			5	5	Narrow cracks @ flanges & chamfer Cracks into top Flanges - at ends No girders 6:6	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 12)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 22-22, A-Ident Number:)				
Diaphragms/Cross Frame		8	3	Lateral connection rebar exposed at S1 G3 and G4.
Bearings		8	8	Stainless steel and teflon @ exp.
Temperature (deg. C)	6			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Stains between units, especially at curbs.
Stains (Percent Area)	10			
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		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		5	5	Steep at east
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	Surface Corrosion @ bottom 1m
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	Yes			Drift @ pier.
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				LOCAL SHIFT TOWARD East ABUTMENT. DRIFT CAUSED GRAVEL BAR TO FORM UNDER West SPAN AND DEEPER FLOW AGAINST East HEADSLOPE.
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		5	5	Steep Cut banks @ SE
HWM (m below Top of Curb)	6.0			Drift at pier.
Drift (Y/N)	Yes			
Slope Protection (Type : RIP RAP; RIP RAP)		4	4	Steep banks at SE.
Guidebank/Spurs		6	6	OLD ABUTMENT SERVED AS SPUR D/S @ East BANK.
Adequacy of Opening		7	7	
(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	2012	Bury NE T.D. end					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch approx. 15 m ² delam over pier					
SEAL DECK	2012	Gravity fill epoxy at grout key cracks - approx. 350 lin. m. Flood epoxy over pier after repair.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012						
OTHER ACTION	2012	Repair diaphragm spall.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	57.2/57.2	Est. Repl. Yr	2040	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	09-Sep-2015		Previous Inspection Date	18-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							