

Bridge Inspection													
Bridge File Number	74596 -1 Bridge					Form Type	SG						
Year Built/Year Supstr	1966/1966					Lot No.	2						
Bridge or Town Name	COCHRANE					Inspector Name	Garry Roberts						
Located Over	1:06 L1 15.553;1:06 R1 15.567					Inspector Class	BR CLS A						
Located On	25123:02 C1 0.146					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	12-Feb-2012						
Legal Land Location	SW SEC 32 TWP 24 RGE 4 W5M					Data Entry By	Anne Roberts						
Longitude, Latitude	-114:32:09, 51:05:17					Data Entry Date	13-Mar-2012						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey						
Contract Main. Area	CMA28					Review Date	21-Feb-2012						
Clear Roadway/Skew	9.1 / -9 deg. (LHF)					Dept. Reviewer Name	Tim Davies						
AADT/Year	100 / 2003 (E)					Dept. Review Date	22-Mar-2012						
Road Classification	RLU-208-100					Follow-Up By							
Detour Length (km)	2												
Allowable Load (t):	Single			Semi			Train					----> On Critical Spans	
Design Loading:	HS20										----> Critical Member		
											----> Primary Span		
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 1 L1 5.3m, 1 R1 5.3m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	
Remarks	Confirmed posting is accurate Sept 14, 2010												
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)	No												
Remarks													
Other Sign Types													
Utilities (Located at)													
Utility Attachments													
Telephone	All through this area.					Gas							
Power						Municipal							
Others						Problem (Y/N)	No						
Remarks	Fibre Optics Cable.												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				6	6	Limited sight distance, crest curve typical of grade separations.							
Vertical Alignment				5	5								
Roadway Width (m)	9.100					Missing isolated splice bolts. Wrong lap at NE and SW							
Approach Bump				6	6								
Guardrail (Y/N)	Yes					Not thriebeam							
Guardrail				4	4								
Length (m)	68.000												
Current Standard (Y/N)	No												
Termination Type	TURNED DOWN ENDS												
Drainage				7	7								
Approach Road General Rating				5	5								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FR, 3 Spans, Lengths(m): 29.6-11-29.6, A-Ident Number: A0510-01)					
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			7	7	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	
Temperature (deg. C)		-12			
(Expansion Type : SLIDING PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
45		South			
55		North			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No		Joints allow drainage onto girder ends & bearings. Retro drain @ E gutter Drainage not causing any serious problem	
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	3	
(Type : STEEL VERTICAL BAR)					
Bridge Rail Posts			3	3	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(Type : PAINT)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			7	7	
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 : FR, 3 Spans, Lengths(m): 29.6-11-29.6, A-Ident Number: A0510-01)				
Paint Condition		4	4	Rust appearing at bolts and bottom flange 1% of total area.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		6	6	Minor Corrosion @ South
Temperature (deg. C)	-12			
(Expansion Type : PINNED BEARING)				
(Fixed Type : ROLLER NEST BEARING;ROLLER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	4	CONCRETE SPALLING @ TOP FLANGE at isolated areas over pier. SEVERAL AREAS HAVE RUST STAINS @ WEEP TUBES. Spalled areas not over hwy 1
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-TRESTLE)				
Bearing Seats/Caps		7	7	
(Type : STEEL)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	
Traffic Safety Features		6	3	Median only Wrong lap at NW and SW. 1 broken post at East median
Type	GUARDRAIL			
Slope Protection		6	6	200mm heave @ bot @ N
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		3	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 4 missing post A/B nuts and 1 bridgerail bolt nut					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace 1 post at median					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	61.9/59.4	Est. Repl. Yr	2025	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	12-Nov-2013		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							