

Bridge Inspection									
Bridge File Number	00189 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1929/1973				Lot No.	2			
Bridge or Town Name	COCHRANE				Inspector Name	Garry Roberts			
Located Over	GHOST RIVER, 2.13.49, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	1A:04 C1 32.248				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Sep-2012			
Legal Land Location	NW SEC 13 TWP 26 RGE 6 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:42:52, 51:13:20				Data Entry Date	03-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney			
Contract Main. Area	CMA28				Review Date	21-Sep-2012			
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,710 / 2011 (A)				Dept. Review Date	11-Oct-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	10								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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)	Yes								
Remarks									
Other Sign Types	Curve. Narrow bridge, no jumping from bridge.								

Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas	Under girders on bracing.			
Power	5 wires East end crossing 30m from bridge & 3 wires 150m North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Missing several isolated splice bolts-12 @ SW and 8 @ SE, 6 @ NE and short splice at NE and NW. 1 split post at NW.  Not thriebeam.				
Vertical Alignment			6	6					
Roadway Width (m)		11.400							
Approach Bump			6	7					
Guardrail (Y/N)		Yes							
Guardrail			4	4					
Length (m)		99.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 4 Spans, Lengths(m): 21.3-91.4-61.6-21.3, A-Ident Number: A0695-01;A0695-02;A0695-03</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>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Chipcoat on ACP.
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Finger plates @ East & West piers. Approach slab joints are koch joints. Fingers on bridge side are 10mm higher than abutment side, both ends - type of both.  8 broken welds at Pier 1 WBL 4 at Pier 3 with 3 in EBL.
Temperature (deg. C)		23			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>THERMOPLASTIC POLYMER</b> )					
Gap Size (mm)		Gap Location			
75		West pier			
55		East pier			
Deck Drainage			5	6	Deck drainage adequate.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Parapets. 2 areas isolated exposed rebar at sidewall side of parapet Sp.2. Several previous patches.  Scaling @ bottom curb area but sealed and stable.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		60			
Bridge Rail			7	7	Several A/B nuts with less than full thread on ped.rail.  5% superficial corrosion.
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts			5	5	
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	
(Type : <b>PAINT</b> )					
Sidewalk			7	4	Isolated corrosion with visible rebar at Sp.2.
<b>Girder/Beam</b>					
Cover Plate			X	X	2 girder system.
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 : <b>WG, 4 Spans, Lengths(m): 21.3-91.4-61.6-21.3, A-Ident Number: A0695-01;A0695-02;A0695-03</b> )					
Paint Condition		4	4	Peeling @ bottom flanges @ West span. Graffiti covered at South fascia.	
(Colour Description : <b>YELLOW</b> )					
(Colour Code : <b>13538</b> )					
Touchup Required (Y/N)	Yes				
Bearings		5	4	Span 3 bearings @ P3 @ max and overextended. Abut bearing receives drainage from open side walk joints. Corrosion is only minor @ this time.	
Temperature (deg. C)	23				
(Expansion Type : <b>ROCKER BEARING</b> )					
(Fixed Type : <b>PINNED BEARING</b> )					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		7	6	Isolated spall at NE soffit.	
Stains (Percent Area)	0				
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
<b>Superstructure General Rating</b>		<b>5</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		
Paint/Coating		5	5		
Abutment Stability		7	7		
Scour/Erosion		6	6	Honeycomb @ center pier and vertical cracks. 1 to 3 mm wide cracks in all piers.	
<b>Piers/Bents</b>					
(Type : <b>PIER-SOLID</b> )					
Bearing Seats/Caps		7	7		
(Type : <b>CONCRETE</b> )					
(Total Number of Bearing Piles : <b>0:0:0</b> )					
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		X	X		
(Colour Description : )					
(Colour Code : )					
Pier Stability		7	7		
Scour		N	N	Water too deep to determine.	
Debris (Y/N)	No				
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>		

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				Flows North from ghost river. Dam resevoir at South side.
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		5	5	Banks steep cut.
HWM (m below Top of Curb)				HWM fluctuates with dam. Trees @ banks.
Drift (Y/N)		Yes		
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</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							
RETROFIT BRIDGE RAIL	2012	Patch parapets approx 0.5m2.					
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Weld 8 fingers @ West pier joint and 4 at East pier joint Seal sidewalk @ East and West abuts and east koch joint @ East abut. Consider new sealed abut joints.					
RESET/ PAINT BEARINGS	2012	Monitor or reset P2 rocker bearings.					
REPAINT SUPERSTRUCTURE	2012	Touch up West end 10m of girders bottom flanges at Sp.1 both fascias.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair 2 rail splices, place 27 splice bolts, replace 1 post at approved rails.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.2/50.9</b>	Est. Repl. Yr	2030	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	Jason Rusu			
Next Inspection Date	19-Jun-2014		Previous Inspection Date	11-Oct-2010			
Inspection Cycle (Default) (months)	21						

Comment	
---------	--