

Bridge Inspection											
Bridge File Number	76425 -2 Bridge				Form Type	SG					
Year Built/Year Supstr	2009/2008				Lot No.	2					
Bridge or Town Name	HIGH LEVEL				Inspector Name	Brian Pientsch					
Located Over	CHINCHAGA RIVER, 9.19, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	58:06 C1 0.000;58:04 C1 68.468				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	12-Jan-2012					
Legal Land Location	NE SEC 36 TWP 110 RGE 3 W6M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-118:20:09, 58:35:45				Data Entry Date	07-Feb-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA01				Review Date	06-Feb-2012					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	David Morrison					
AADT/Year	740 / 2011 (A)				Dept. Review Date	05-Apr-2012					
Road Classification	RAU-212.0-110				Follow-Up By						
Detour Length (km)	999										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CL800									----> Primary Span	

Posting Information										
Required Load Posting (t)	Single		Semi			Truck Train				
Posted Loading (t)	Single		Semi			Truck Train				
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	not req'd									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	Sign bolt missing SE corner, Broken post NE corner.									
Other Sign Types	Icy Bridge Deck, Chinchaga River									

Utilities (Located at)										
Utility Attachments										
Telephone	North edge of row				Gas					
Power	3 wire OHP 50m South of CL.				Municipal					
Others	WSC gauge station				Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Gradual horizontal curves both approaches.					
Vertical Alignment		7	7						
Roadway Width (m)	12.800								
Approach Bump			5	7					
Guardrail (Y/N)	Yes		Poor transition alignment at SW and NE corners.						
Guardrail			7	7					
Length (m)	70.300								
Current Standard (Y/N)	Yes								
Termination Type	TURN DOWN ENDS								
Drainage			3	3	(Bird baths at SE, SW, & NW corners @ joints. SW drain trough incomplete-deep scour ditch drainage causing deep erosion gullies E. banks. -04-Jun-2010.) Snow covered. Erosion gullies @ SE, NE headslope corners.				
<b>Approach Road General Rating</b>		<b>7</b>		<b>7</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 3 Spans, Lengths(m): 42-56-42, A-Ident Number: )</b>						
<b>Special Features</b>						
Special Feature			X	Stainless steel nuts and washers connecting rod to weathering steel stiffeners.		
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>						
<b>Now</b>	10.0	0.0	0.0	0.0		
Wearing Surface				8	6	Minor ACP segregation in Eastbound lane.
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>90</b> )						
Deck Top				N	N	
Deck Rideability				9	9	
Deck Joints				3	3	Membrane out of joints causing bump and recessed areas in joints. exp-koch joints
Temperature (deg. C)		-7				
(Expansion Type : )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
90		abut 1				
90		abut 2				
Deck Drainage				9	9	Bridge on grade-no deck drains.
Drains Clogged (Y/N)		No				
Curbs/Median				5	4	(Top of curbs scaling-no class 5 finish on top surface.-04-Jun-2010) Curb spalled at deck joint SE corner.
(Curb Type : <b>Standard;None</b> )						
Scaling (Percent Area)		30				
Bridge Rail				9	9	Anchor bolts protrude 50-75mm beyond top of nuts.
(Type : <b>GALVANIZED STEEL TUBE BEAM TYPE 2</b> )						
Bridge Rail Posts				8	8	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating				9	9	
(Type : <b>GALVANIZED</b> )						
Sidewalk				X	X	
<b>Girder/Beam</b>						
Cover Plate				X	X	10 galv. bolts used in lieu of weathering steel bolts, span 1G2 West abut. Bolting diagonals.
Flange				9	9	
Web				9	9	
Stiffeners				9	9	
Splice				4	4	
Weld				9	9	
Diaphragms/Cross Frame				9	9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 3 Spans, Lengths(m): 42-56-42, A-Ident Number: )</b>				
Paint Condition		9	9	Weathering steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		9	9	
Temperature (deg. C)	-7			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Several lateral cks with efflorescent stains between curb exterior to outside girders.
Stains (Percent Area)				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	Neoprene strip not cut to proper length between backwall and abut. seat, causing it to come out of position.
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		X	5	
Abutment Stability		9	9	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				No class 3 finish on pier caps.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>4:4</b> )				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		X	X	
Paint/Coating		9	9	
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	9	
Scour		9	9	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		8	8	
Bank Stability		5	5	Cut banks u/s and d/s.
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)				
Slope Protection		3	3	Erosion scars on East headslope undermining silt fences.
(Type : <b>NONE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>3</b>	<b>3</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							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repair asphaltic membrane					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2012	Change out galv. structural bolts.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair East headslope and bank erosion.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair hazard markers.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.4/56.0</b>	Est. Repl. Yr	2084	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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	12-Oct-2013		Previous Inspection Date	04-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							