

Bridge Inspection							
Bridge File Number	76351 -1 Bridge			Form Type	TH		
Year Built/Year Supstr	1935/1953			Lot No.	2		
Bridge or Town Name	RICINUS			Inspector Name	Owen Salava		
Located Over	RAM RIVER, 6.161, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	734:16 C1 30.876			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	01-Dec-2010		
Legal Land Location	NE SEC 7 TWP 36 RGE 13 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-115:50:25, 52:05:01			Data Entry Date	28-Feb-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	22-Feb-2011		
Clear Roadway/Skew	7.3 /			Dept. Reviewer Name	Chris Black		
AADT/Year	60 / 2009 (A)			Dept. Review Date	01-Mar-2011		
Road Classification	RLU-208G-90			Follow-Up By			
Detour Length (km)	150						
Allowable Load (t):	Single	CS1 33 STRINGER	Semi	CS2 58 STRINGER	Train	CS3 84 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks		Measured 5.95m										
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)	Yes	At Bridge (Y/N)	Yes				
Remarks		No posted load sign.										
Hazard Marker At Bridge (Y/N)		Yes										
Remarks		Too low, N. end. NW missing.										
Other Sign Types		Narrow bridge, One truck on bridge (only one sign), Steep hill, River ID, info. N River ID sign broken. N Wildlife Sanctuary sign broken, in ditch.										

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Sharp curves and steep hill each side, signage in place.
Vertical Alignment		4	4	
Roadway Width (m)		9.000		
Approach Bump		7	7	
Guardrail (Y/N)		Yes		
Guardrail		7	7	Not thrie beam, insufficient posts & length.
Length (m)		11.400		
Current Standard (Y/N)		No		
Termination Type		TURNED DOWN		
Drainage		7	7	SE & SW ditches armoured with rock.
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	10	0	0	0	
Now	100.0	0.0	0.0	0.0	
Wearing Surface/Deck Top			7	N	(Strip deck replaced 2006. 24Jun2010).
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability			8	8	
Deck Joints			X	X	
Temperature (deg. C)		-8			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards			7	N	(100 x 300 x 450 TT blocking. 24Jun2010). Snow covered.
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 150)					
(Width(mm) : 300)					
Bridge Rail			7	7	Triple layer, flexbeam. Incorrect lap. 100 x 150 x 350 timber blocking.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking			7	7	
(Type : POST STEEL;TREATED TIMBER)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	

Superstructure							
Bridge Component				Last	Now	Explanation of Condition	
(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number:)							
Wide Load Damage (Y/N)	Yes					5 N members have minor creases, E side due to wide load damage (photo).	
High Load Damage (Y/N)	No						
Top Chord				7	7	L0U1W has bullet gouge 2m above deck & U9L10E has gouge at inside top plate near rail. U9L10W has 8x100mm wave in cover plate btwn rivets.	
Batter Posts				4	4		
Sway Bracings				7	7		
Diagonals				4	4		
Verticals				5	5	m1L3W has 30x350mm bend & 15mm tear to inside flange.	
Portals				7	7		
Connections				4	4	1 loose bolt U8W of U8U8. M1L3E has only 4 bolts when it should have 5. Gusset too small for additional bolt. Loose nuts on bracing & chord at U8W.	
Floor Beams				7	7		
Bottom Chord				7	7	No A-No. Plaque & holes open at L0U1E. Gravel accumulates on bottom chord & lower connections.	
(No. of Stringers : 90)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Stringers				7	7		
(Type : STEEL)							
(Width(mm) : 140)							
(Depth(mm) : 387)							
(Spacing(mm) : 853)							
Paint Condition				7	7	Orange.	
(Colour Description :)							
(Colour Code :)							
Touchup Required (Y/N)	No						
Bearings				4	4	Fully extended. A1 A2	
Temperature (deg. C)	-8						
(Expansion Type : ROLLER NEST BEARING)							
(Fixed Type : DISC & DOME BEARING)							
Functioning (Y/N)	Yes						
Sub Deck/Deck Underside				6	6		
(Material Type : TREATED TIMBER)							
(Plank Thickness(mm) : 100)							
(Plank Width(mm) : 300)							
Defects (Percent Area)	1						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating				4	4		
Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1200)							
3 hP256 X 64 corbel on 2 HP256 X 64 caps/bearing, 20 total. 1TT BW cap/Abut, 2 total 1 75 X 300 BW cap lam. to AZ only. 4 HP256 X 64 BP/bearing, 16 total 2 HP256 X 64 BW/abut, 4 total 5 300dia TT BW/abut, 10 total 2 300 dia TT ext/abut, 4 total 4 300 dia TT WW/abut + tincap, 8 total.							

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
(Total Number of Caps/Corbels : 11:11)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels			7	7	
(Type : STEEL;TREATED TIMBER)					
(Depth(mm) : 256)					
(Width(mm) : 256)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		2.50			
Wingwalls			4	4	Perforated tintop at SW.
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles			7	7	
Paint/Coating			6	6	
Abutment Stability			6	6	
Scour/Erosion			6	6	
Piers/Bents					
(Type :)					
(Total Number of Caps/Corbels :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels			X	X	
(Type :)					
(Total Number of Bearing Piles :)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Pier Shaft/Piles			X	X	
Greatest Height (m)					
Bracing/Struts/Sheathing			X	X	
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					
Pier Stability			X	X	
Scour			X	X	
Debris (Y/N)		Yes		Old abuts & piers under bridge.	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Water to deck 7.88 m 90 degree bend @ U/S.
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		4	4	High banks @ S. bank prone to erosion. Gully & stream each side of S. appr
HWM (m below Top of Curb)				(HWM 0.5m) 02/10/09.)
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	Old abutment in place @ N + S ends.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Special Comments for Next Inspection	Photos from June 2010 UT included as additional attachment.		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	Owen Salava	Previous Assistant's Name	Bryce Clayton		
Next Inspection Date	01-Mar-2014	Previous Inspection Date	24-Jun-2010		
Inspection Cycle (Default) (months)	39				
Comment					