

Bridge Inspection									
Bridge File Number	01949 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1987/1987				Lot No.	1			
Bridge or Town Name	HIGH RIVER				Inspector Name	Jason Rusu			
Located Over	TRIBUTARY TO HIGHWOOD RIVER, 2.13.27.6, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2A:04 C1 3.626				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-Aug-2012			
Legal Land Location	SW SEC 7 TWP 19 RGE 28 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-113:52:28, 50:35:22				Data Entry Date	05-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA27				Review Date	19-Aug-2012			
Clear Roadway/Skew	10.1 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	10,400 / 2011 (A)				Dept. Review Date	06-Sep-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	5								
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	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	Not required.								
Other Sign Types	Curve left, 50 km/hr. Rail xing . Checker board Lt . School bus stop.								

Utilities (Located at)									
Utility Attachments									
Telephone	At East side.				Gas	Crossing 100 m South.			
Power	Street light at SW.				Municipal				
Others	Possible sewer East ditch. 300mm pipeline U/S - 40m. Fibre optics @ West ditch.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Pedestrian bridge to East. Curve North.				
Vertical Alignment			7	7					
Roadway Width (m)		8.500							
Approach Bump			7	7					
Guardrail (Y/N)		Yes							
Guardrail			7	7					
Length (m)		27.000			Not thriebeam.				
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			6	6					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 8.5-8.5-8.5, 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	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP Covered.
Deck Rideability			8	8	
Deck Joints			N	N	ACP Covered.
Bump (Y/N)		No			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)					
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Not standard tube rail termination.
(Type : BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Minor Spall @ G9S1 over pier. Wide cracks with corrosion stain at Sp.1- G4,G6,G8, Sp.2- G1,G5,G6,G9 and Sp.3- G2,G3,G4,G5,G6,G8.
Last	0	0	10	0	
Now	0	0	13	0	
Girders			2	2	Cracking @ underside of curb units. NW girder marked & dated, 10 girders with longitudinal cracks & corrosion stains - 5 are wide width.
Last Complete Inspection Date		11-Aug-2012			
Cracking (Y/N)		Yes			Narrow longitudinal crack w/ corrosion staining.
Spalling (Percent Area)		0			S3G4 small spall @ pier.
Lift or Connector Pocket Grouted (Y/N)		Yes			Several girder undersides with De-laminate concrete, 200mm D.A. De-lams @ S3-G3 and G4.
(Number Of Girders : 27)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			2	2	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1600)					
(Total Number of Caps/Corbels : 1:1)					
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				6	6
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 370)					
Backwalls/Breastwalls				5	5
Greatest Height (m)		2.70			
Wingwalls				5	5
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now	0	0	0	1	
Piles				3	3
Paint/Coating				4	4
20% corrosion.					
Abutment Stability				4	4
NE abutment precast extended past cap 320mm & neoprene shifted - marked @ NE. No new movement. NE abutment leaning 150mm inward in 1.2m rise. 250mm dp steel H-iron strut installed from North pier to North abut to stabilize abut lean.					
Scour/Erosion				5	5
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 1:1)					
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				6	6
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 370)					
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles				5	5
Greatest Height (m)		3.60			
Bracing/Struts/Sheathing				6	6
Nose Plate				6	6

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Minor corrosion.
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	North Pier pushing South from strut to backwall. Pier Leaning 110mm in 1.5m marked on East pile.
Scour		6	6	
Debris (Y/N)	No			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	Cut banks @ NE.
HWM (m below Top of Curb)	1.8			No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	Class 1 and asphalt debris @ South. Class II placed U/S - rock silted over.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		6	6	Retaining wall @ NW.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2012	Core timber piles and act on results.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Investigate and repair corrosion cracks at girders.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	27.8/27.8	Sufficiency Rating (Last/Now) (%)	41.8/41.8	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	2 Notification issued August 12, 2012- J.Rusu.		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	11-May-2014		Previous Inspection Date	11-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							