

Bridge Inspection										
Bridge File Number	72142 -1 Bridge					Form Type	TH			
Year Built/Year Supstr	1987/1949					Lot No.	8			
Bridge or Town Name	CARLOS					Inspector Name	Paul Carrier			
Located Over	BAPTISTE RIVER, 6.150, WATERCRS-ST					Inspector Class	BR CLS A			
Located On	LOCAL ROAD					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	28-Mar-2012			
Legal Land Location	NW SEC 34 TWP 42 RGE 8 W5M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-115:04:31, 52:39:53					Data Entry Date	10-May-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Jason Saly			
Contract Main. Area	UNDEFINED CMA					Review Date	24-Apr-2012			
Clear Roadway/Skew	6.7 / 0 deg.					Dept. Reviewer Name	Andrew Smikles			
AADT/Year	75 / 2008 (E)					Dept. Review Date	15-May-2012			
Road Classification	RLU-208G-90					Follow-Up By				
Detour Length (km)	999									
Allowable Load (t):	Single	H 29 STRINGER			Semi	HS 44 FLOOR BEAM		Train	CS3 63 U4U5	---> 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	EB	On Bridge (m)	5.9	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.9	In Advance (Y/N)	Yes
Remarks												
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												
Hazard Marker At Bridge (Y/N)												
No												
Remarks												
HM required. Attached post to outside of steel end post.												
Other Sign Types												
Private Road Penn West 50km/h												

Utilities (Located at)									
Utility Attachments									
Telephone						Gas	Multiple pipelines X-ing 100m E		
Power	3 OH wire 15m N of c/l.					Municipal			
Others						Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Winding road; blind horiz. curves both ends.
Vertical Alignment		5	5	Posted 50 km/h. Steep hill @ W end at some distance from bridge.
Roadway Width (m)	11.200			Pothole/depression at E end; road failure.
Approach Bump		7	5	Roadway width measured 60m to W. Large soft spot in roadway developing.
Guardrail (Y/N)	Yes			Missing 4 splice bolts at NW & 4 at SE; unalbe to see TD ends due to dirt/snow/mud.
Guardrail		3	4	
Length (m)	21.900			Approach guardrails measured 29.2m at SW, 22.4m at SE, 21.9m at NW & 29.8m at SW.
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		4	3	Amt of gravel under approach rail forcing all drainage to leak through deck.

Approach Road				
		Last	Now	Explanation of Condition
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: A0178-02)				
Special Features				
Special Feature			X	ID tag at SW batter post broken off batter post. Broken plaque bears No. A-178-2.
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last	20	0	1	25
Now	10.0	0.0	0.0	0.0
Snow & mud along curbs covering edge of deck.				
Wearing Surface/Deck Top		2	7	Single hole in strip deck centered over gap in sub deck. Some wear in wheelpaths; many splinters/mud along wheelpaths.
(Material Type : TREATED TIMBER)				
(Plank Thickness(mm) : 75)				
(Plank Width(mm) : 300)				
Deck Rideability		4	7	
Deck Joints		X	X	
Temperature (deg. C)		5		
(Expansion Type :)				
(Fixed Type :)				
Gap Size (mm)		Gap Location		
Curbs/Wheel Guards		N	6	On 100x300 TT blocking. Has much mud & wood splinters covering wheelguards; chained vehicles on deck.
(Curb Type : Standard)				
(Type : TREATED TIMBER)				
(Thickness(mm) : 150)				
(Width(mm) : 300)				
Bridge Rail		8	7	Triple layer flexbeam.
(Type : GALVANIZED STEEL FLEX BEAM)				
Bridge Rail Posts/Blocking		4	4	TT blocking on bridge all present. Blocks at end posts splitting, rotating.
(Type : TREATED TIMBER;TREATED TIMBER)				
Bridge Rail/Posts Coating		6	7	
(Type : GALVANIZED)				
Sidewalk		X	X	

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number: A0178-02)							
Wide Load Damage (Y/N)	Yes				NE batter post has 400mm tear from wileload. W portal has small 20mm dent. W batter posts have 32 bullet holes or dents. Typical packed rust on 50% of bottom sway bracing. Upper sway bracing has welds in place of bolts, 20 open holes. Bottom sway braces 50% deformed by pack rust. m5m6n has a lose bolt @ m6 that spins. L2 vin has 5 bullet dents and a dent 20 - 100mm 3m above deck. (10mm dent 3m above deck. L1U2 has 10 open bolt holes and 15 bullet holes - photo L8U8 has 4mm x 100mm bullet scar - photo. 14Jul2008) - no access to verify. Missing bolt at L2S. Bottom chord has gravel accumulation throughout. 10 bays with 9 stringers each. 36 were not accessible; avoided walking on ice due to uncertain spring conditions.		
High Load Damage (Y/N)	Yes						
Top Chord			7	7			
Batter Posts			3	3			
Sway Bracings			4	4			
Diagonals			3	3			
Verticals			3	3			
Portals			4	4			
Connections			4	4			
Floor Beams			7	7			
Bottom Chord			5	5			
(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) : 380)							
(Spacing(mm) : 853)							
Paint Condition			5	5	Peeling in some areas between top coats. 1% rust spots.		
(Colour Description : YELLOW)							
(Colour Code : 13538)							
Touchup Required (Y/N)	No						
Bearings			3	4	NE bearing with welds in place of nuts on the W side. N bolt bent; the slots are too wide for this configuration. Missing AB on the outside of the NE bearing. TYP SW bearing. All bearings photoed. Trusses jammed against E abut.		
Temperature (deg. C)	5						
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)							
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)							
Functioning (Y/N)	Yes						
Sub Deck/Deck Underside			5	7	Sub deck installed with wide gaps throughout (photo available).		
(Material Type : TREATED TIMBER)							
(Plank Thickness(mm) : 150)							
(Plank Width(mm) : 300)							
Defects (Percent Area)	0						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating			5	3			
Substructure							
Bridge Component		Last		Now		Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : Y)						2 wing piles + 2 ext. piles / corner.	
(Extended Backwall Piles Spacing(mm) : 1000)							

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
(Total Number of Caps/Corbels : 8:12)				All caps/corbels are 305x305 H-iron. Corbels below bearings consist of 3 steel H-iron welded together per bearing. Caps below are single H-irons (2 per corner) - see photos of all bearing locations.			
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)							
(Depth(mm) : 300)							
(Width(mm) : 300)							
Backwalls/Breastwalls			4			5	
Greatest Height (m)		2.70					
Wingwalls			4	N	(SE wingwall plank broken at furthest pile - photo. 14Jul2008) - covered in snow/mud.		
(Total Number of Bearing Piles : 8:8)				4 steel piles per bearing point.			
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			4			4	Bearing systems being slowly buried; need to clean-off to allow drying.
Abutment Stability			7			7	(E abut sheathing has 1 plank broken, 1 split. NE not low enough, gap between planks exposig fill. 150mm. 14Jul2008) - all snow/mud covered.
Scour/Erosion			8			8	
Piers/Bents							
(Type :)							
(Total Number of Caps/Corbels :)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
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	0	0	0	0			
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			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Cut bank @ SE away from bridge.
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM Not visible.
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install spacer blocks & bolts at each end post to bridgerail; use TT plywood & keepers.					
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Lower nail heads in strip deck.					
SEAL DECK							
OVERLAY DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS	2012	Install missing anchor bolt at SW bearing.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2012	Repair all bullet dents, holes & missing bolts.					
WASHING	2012	Wash bridge & all signs.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	Clean-out combustible chips under E abut.					
OTHER ACTION	2012	Install all 4 HMs.					
OTHER ACTION	2012	Recast A-ident No. A-178-2 & re-install (silicone/bolts).					
OTHER ACTION	2012	Clean-out gravel under approach flexbeam.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	36.8/34.0	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider banning chains or convert next strip deck to Ekki wood.		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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	28-Jun-2015		Previous Inspection Date	14-Jul-2008			

Inspection Cycle (Default) (months)	39
Comment	