

Bridge Inspection									
Bridge File Number	13400 -1 Bridge				Form Type	PT TT			
Year Built/Year Supstr	1928/1928				Lot No.	2			
Bridge or Town Name	FT VERMILION				Inspector Name	Garry Roberts			
Located Over	BOYER RIVER, 8.10.23, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name	Randy Bredo			
Water Body Cl./Year					Assistant Class	BR CLS A			
Navigabil. Cl./Year					Inspection Date	05-Jun-2012			
Legal Land Location	SE SEC 9 TWP 109 RGE 14 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:15:48, 58:26:56				Data Entry Date	16-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	UNDEFINED CMA				Review Date	05-Oct-2012			
Clear Roadway/Skew	4.8 /				Dept. Reviewer Name	David Morrison			
AADT/Year	200 / 2012 (E)				Dept. Review Date	01-Nov-2012			
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	21								
Allowable Load (t):	Single	H 24 STRINGER		Semi	HS 34 L2L3		Train	CS3 42 L2L3	
Design Loading:	HS15							----> On Critical Spans ---->Critical Member	
								----> Primary Span	
Posting Information									
Required Load Posting (t)	Single		24		Semi		Truck Train		43
Posted Loading (t)	Single		20.0		Semi		Truck Train		43.0
Posted:	Lane	NB	At Junction (Y/N)	Yes	In Advance (Y/N)	Yes	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	Yes	In Advance (Y/N)	Yes	At Bridge (Y/N)	No	
Remarks	Incorrect signs and missing sign @ bridge.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Missing at NE STANDARD-Reduce Speed Ahead, Narrow Bridge, Stop if Oncoming Traffic on Bridge. Curve								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	North r.o.w				Gas				
Power	South r.o.w				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	4	Sharp corners on both approaches to bridge.				
Vertical Alignment			6	6					
Roadway Width (m)	7.000				Gravel				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				2 TT posts broken and 1 terminal end damaged. 1 flexbeam splice bolt missing and 14 bolts are headless. Missing 2 TT posts NW corner and 1 at SW. Approach rails are too low-300 above road. Not thrie beam				
Guardrail			3	3					
Length (m)	8.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			5	5					
Approach Road General Rating			4	4					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PT, 3 Spans, Lengths(m): 4.9-30.5-4.9, A-Ident Number: A0046-17)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	10	0	0	0		
Now	5.0	0.0	0.0	0.0		
Wearing Surface/Deck Top			5	5	Ends of planks worn 20mm.	
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Deck Rideability			6	6		
Deck Joints			X	X		
Temperature (deg. C)						
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Curbs/Wheel Guards			4	4	18 WHEELGUARD BLOCKS DAMAGED. Blocks are not visible under dirt.	
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 150)						
(Width(mm) : 300)						
Bridge Rail			3	5		
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts/Blocking			3	5		
(Type : TREATED TIMBER;TREATED TIMBER)						
Bridge Rail/Posts Coating			5	5		
(Type : GALVANIZED)						
Sidewalk			X	X		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 3 Spans, Lengths(m): 4.9-30.5-4.9, A-Ident Number: A0046-17)					
Wide Load Damage (Y/N)	Yes			See 2012 UT report for details 1 missing bolt at U3-L3E bottom of kneebrace.	
Top Chord		6	6		
Batter Posts		6	6	U5L4E & U6L5E have minor bow.	
Diagonals		5	5	Bottom sway brace at Bays 2 & 7 have 1 missing bolt each(3-should be 4) ok.	
Verticals		5	5		
Connections		5	5	12/bay x 8 bays	
Floor Beams		5	5		
Bottom Chord		6	6	4 STRINGERS ADDED UNDER wheel paths.	
Lateral Bracings		6	6	Stringers starting to scale with rust. See UT 2012 for other minor details.	
(No. of Stringers : 96)					
Stringer Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Stringers		5	5		
(Type : STEEL)					
(Width(mm) :)					
(Depth(mm) :)					
(Spacing(mm) : 737)					
Paint Condition		3	3	Replacement members left primed only. STRINGERS and floorbeams are CORRODING WITH pitting rust.	
(Colour Description : BLUE)					
(Colour Code : 15182)					
Touchup Required (Y/N)	No				
Bearings		5	5	Non-uniform anchor bolts @ SW. Pier 1 South is expansion.	
Temperature (deg. C)	15				
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)					
(Fixed Type : PINNED BEARING)					
Functioning (Y/N)	Yes				
Sub Deck/Deck Underside		5	5		
(Material Type : TREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Defects (Percent Area)	3				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		5	5		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : TT)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	5.0	0.0	0.0	0.0	

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Secondary Span : TT)						
Wearing Surface/Deck Top				5	5	Worn at ends 20mm.
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Deck Rideability				6	6	
Wheel Guards				4	4	Wheelguard blocks are dirt covered, approx 6 are twisted or split.
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 150)						
(Width(mm) : 300)						
Bridge Rail				4	3	Missing splice bolts and enlarged holes from torch. Rail to post bolt loose at SP3 West side.
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				4	3	Missing 1 post and 1 post bolt at West side Sp3. 3Flexbeam splice bolts missing, 1 rail to truss bolt missing. Some enlarged holes in members DUE TO Torch cut holes. 2 TT rail blocks damaged and 2 horizontal posts to WC bolts missing. 1 damaged section at West side rail is 500mm above deck.
(Type : TREATED TIMBER;TREATED TIMBER)						
Bridge Rail/Posts Coating				4	4	
(Type : GALVANIZED)						
(No. of Stringers : 11;11)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		Plywood placed between stringers and cap to bring top surface to elevation of truss. SP3-S6 has been sistered.
Last						
Now						
Stringers				5	5	
(Type :)						
(Width(mm) : 150)						
(Depth(mm) : 300)						
(Spacing(mm) : 520)						
Sub Deck/Deck Underside				5	5	
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Defects (Percent Area)	0					
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating				5	5	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Caps/Corbels : 4:2)						Abuts and piers are difficult to access due to heavy brush.
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 250)						
(Width(mm) : 250)						
Backwalls/Breastwalls						
Greatest Height (m)				1.20		
Wingwalls				4	4	Wing plank @ SE corner broken.
(Total Number of Bearing Piles : 4:4)						Pile 2 A1 has 17mm gap between cap and piles.
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				5	2	
Scour/Erosion				6	3	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 7:8)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 250)						
(Width(mm) : 250)						
(Total Number of Bearing Piles : 16:16)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				5	5	
Greatest Height (m)				2.90		
Bracing/Struts/Sheathing				5	5	
Nose Plate				5	5	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				6	6	
Scour				6	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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	2012	Replace all missing or damaged components. Upgrade approach rails to current standard. Replace 1 post at Sp3.					
RETROFIT BRIDGE RAIL							
PATCH DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2012	Install bolt in bottom of U3L3E kneebrace.					
WASHING	2012						
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Clear bushes around bridge.					
OTHER ACTION	2012	Shim A1 pile.					
OTHER ACTION	2012	Install Posted Loading at bridge.(2)					
OTHER ACTION	2012	Install 1 hazard marker.					
OTHER ACTION	2012	Replace damaged wheelguard blocks.(x24)					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	39.1/39.1	Est. Repl. Yr	2023	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	Randy Bredo		Previous Assistant's Name	Garry Roberts			
Next Inspection Date	05-Sep-2015		Previous Inspection Date	15-Jun-2010			
Inspection Cycle (Default) (months)	39						
Comment							