

Bridge Inspection									
Bridge File Number	75695 -1 Bridge				Form Type	PT TT			
Year Built/Year Supstr	1967/1966				Lot No.	2			
Bridge or Town Name	FT VERMILION				Inspector Name	Garry Roberts			
Located Over	CARIBOU RIVER, 8.10.21, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	58:10 C1 14.363				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 3 TWP 110 RGE 12 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:54:15, 58:31:07				Data Entry Date	15-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA01				Review Date	08-Oct-2012			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	David Morrison			
AADT/Year	230 / 2011 (A)				Dept. Review Date	18-Dec-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single	H 35 STRINGER		Semi	HS 63 STRINGER		Train	CS3 85 U1U2	
Design Loading:	HS15								---> On Critical Spans --->Critical Member
									---> Primary Span

Posting Information									
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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	"CARIBOU RIVER" Hill, Narrow Bridge								

Utilities (Located at)									
Utility Attachments									
Telephone	South road ditch, temp strung on S. rail				Gas				
Power	South boundary of r/w - 3 line				Municipal				
Others					Problem (Y/N)		Yes		
Remarks	Temp telephone cable should be buried.								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		9	8	In sag curve with limited sight distance.					
Vertical Alignment		6	6						
Roadway Width (m)	10.000				Gravel				
Approach Bump		7	5	Creased but functional. Missing 4 splice bolts at NW and minor damage at NE. Not thrie beam					
Guardrail (Y/N)		Yes							
Guardrail		5	4						
Length (m)	12.000								
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN ENDS							
Drainage		6	7						
Approach Road General Rating		6	6						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PT, 3 Spans, Lengths(m): 6.1-35.1-6.1, A-Ident Number: A0553-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	30	0	0	5		
Now	5.0	0.0	0.0	5.0		
Wearing Surface/Deck Top			3	3	5% of planks are worn and rotting and nails projecting.	
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Deck Rideability			4	4	Holes developing in stripdeck.	
Deck Joints			X	X		
Temperature (deg. C)						
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Curbs/Wheel Guards			N	6	3 areas splintered. Minor grader scrapes. 3 blocks split.	
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 100)						
(Width(mm) : 305)						
Bridge Rail			5	5	End of SW rail & NE rail dents 250 mm x 70 mm.CLIPS Missing 2 rail to truss bolts - Cannot be installed. .	
(Type : STEEL NON-STANDARD RAIL)						
Bridge Rail Posts/Blocking			7	7		
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating			7	5		
(Type : PAINT)						
Sidewalk			X	X		

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : PT, 3 Spans, Lengths(m): 6.1-35.1-6.1, A-Ident Number: A0553-01)							
Wide Load Damage (Y/N)	No					U5L6N at U5 has 22mm dent to lower flange with connection - ok. Stringers are framed into floorbeams. See UT 2012 for minor details.	
Top Chord			7	7			
Batter Posts			5	6			
Diagonals			7	7			
Verticals			7	7			
Connections			5	6			
Floor Beams			7	7			
Bottom Chord			7	7			
Lateral Bracings			7	7			
(No. of Stringers : 84)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Stringers			7	7			
(Type : STEEL)							
(Width(mm) : 170)							
(Depth(mm) : 310)							
(Spacing(mm) : 610)							
Paint Condition			5	5			
(Colour Description : BLUE)							
(Colour Code : 15182)							
Touchup Required (Y/N)	No						
Bearings			6	4		Front plate on roller nest boxes welded on. Missing anchor bolts at P1. East end fixed.	
Temperature (deg. C)	15						
(Expansion Type : ROLLER NEST BEARING)							
(Fixed Type : PINNED 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			5	4			
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	30	0	0	10			
Now	5.0	0.0	0.0	10.0			

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Secondary Span : TT)						
Wearing Surface/Deck Top				3	3	Planks are worn and rotting.-approx 10%
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Deck Rideability				4	4	Holes starting to develop.
Wheel Guards				N	6	Minor grader scrapes.
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 100)						
(Width(mm) : 305)						
Bridge Rail				7	4	Single layer. Wrong lap and missing 4 splice bolts SP1 South rail.
(Type : GALVANIZED STEEL NON-STANDARD RAIL;GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				7	7	
(Type : GALVANIZED POST STEEL;POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				7	6	
(Type : PAINT;GALVANIZED)						
(No. of Stringers : 35;35)				Chips and cuts on bottom of numerous stringers from mtce. work.		
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	TT	
Last						
Now						
Stringers				6	6	
(Type : STEEL)						
(Width(mm) : 150)						
(Depth(mm) : 400)						
(Spacing(mm) : 220)						
Sub Deck/Deck Underside				4	4	2 planks showing rot span 3 north side and 2 at South side of Sp3.
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 300)						
Defects (Percent Area)	2					
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) : N)						
(Extended Backwall Piles Spacing(mm) :)						

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
(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					
Bearing Seats/Caps/Corbels			9	8	
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 380)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		1.00			
Wingwalls			5	5	
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	2	0	0	0	
Now	6	0	0	0	
Piles			N	N	
Paint/Coating			X	X	
Abutment Stability			5	6	
Scour/Erosion			6	7	
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 9:9)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Bearing Seats/Caps/Corbels			8	8	
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 380)					
(Total Number of Bearing Piles : 19:24)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Pier Shaft/Piles			5	5	
Greatest Height (m)		3.60			
Bracing/Struts/Sheathing			5	5	
Nose Plate			5	5	
Paint/Coating			X	5	
(Colour Description :)					
(Colour Code :)					
Pier Stability			5	6	
Scour			7	7	

Covered by grouted steel capital

Approach span caps 350x380

Pier 2 approach span piles are steel, twisted and tapered to line up under the cap. Pile splices not done to AT standard. All TT piles have steel capitals grouted in place.

galvanized

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Deck to streambed 8.9 m.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				NO HWM VISIBLE
Drift (Y/N)	No			
Slope Protection (Type : RIP RAP; RIP RAP)		7	7	At toes of headslopes.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
PATCH DECK	2012	Approx 20 planks					
REPLACE STRIP DECK	2015						
REPLACE SUB DECK	2015	Include partial replacement when replacing stripdeck.					
RESET/ PAINT BEARINGS	2012	Install 4 anchor bolts on expansion bearins.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Bury temp telephone cable.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	56.1/57.2	Est. Repl. Yr	2025	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	05-Mar-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							