

Bridge Inspection											
Bridge File Number	78321 -1 Bridge				Form Type	TT					
Year Built/Year Supstr	1970/1970				Lot No.	2					
Bridge or Town Name	TROUT LAKE				Inspector Name	Brian Pientsch					
Located Over	TRIBUTARY TO TROUT RIVER, 8.10.18.21.2, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	686:12 C1 27.109				Assistant Name	Clem Guenette					
Water Body Cl./Year					Assistant Class	BR CLS B					
Navigabil. Cl./Year					Inspection Date	12-Mar-2013					
Legal Land Location	NW SEC 20 TWP 87 RGE 4 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:36:02, 56:33:41				Data Entry Date	08-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA02				Review Date	08-Apr-2013					
Clear Roadway/Skew	6.2 / -15 deg. (LHF)				Dept. Reviewer Name						
AADT/Year	360 / 2012 (A)				Dept. Review Date						
Road Classification	RCU-209G-90				Follow-Up By						
Detour Length (km)	999										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 66 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:										----> 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									
Hazard Marker At Bridge (Y/N)		Yes							
Remarks									
Other Sign Types		"Narrow Bridge" in advance of bridge. Curve sign in advance of bridge.							

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	3 wire O/H West r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road											
			Last	Now	Explanation of Condition						
Horizontal Alignment			6	6	Bridge 0.5m above grade. Recreational entrance 70m South. Horizontal curve 100m South.						
Vertical Alignment			5	5							
Roadway Width (m)	7.000		Bridge 0.5m above grade.								
Approach Bump										4	4
Guardrail (Y/N)	Yes										
Guardrail										5	5
Length (m)	15.200										
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 : TT, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)						
Special Features						
Special Feature					X	
(Type :)						
Special Feature					X	
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Ice and snow covered.	
Last	95	0	0	0		
Now	95.0					
Wearing Surface/Deck Top				4	4	Planks worn down @ tire locations where visible.-04-Feb-2010
(Material Type : UNTREATED TIMBER)						
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 300)						
Deck Rideability				4	4	Planks worn down in wheels path.-04-Feb-2010
Wheel Guards				N	N	7 curb blocks split or out of place.-Feb 2, 2009 Plowed snow covering guards.
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 100)						
(Width(mm) : 300)						
Bridge Rail				4	5	Single layer bridge rail.
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				3	5	
(Type : TREATED TIMBER;TREATED TIMBER)						
Bridge Rail/Posts Coating				7	6	
(Type : GALVANIZED)						
(No. of Stringers : 14;11;15)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Sp1, St4 cracked at South end.-2m long Sp1, St8 Check rack at South end & cusping. Sp2, St6 severly checked on North end. Sp2, St3-splinter at South end. Sp2, St6-Top corner splinter off 2mx0.1x0.2, also splinter at centre of stringer. Sp2, St10-Superficial splinter on bottom stringer. Centrer span dimensions-200mmx500mm	
Last	0	0	0	1		
Now	0	0	0	1		
Stringers				3		
(Type : TREATED TIMBER)						
(Width(mm) : 150)						
(Depth(mm) : 400)						
(Spacing(mm) : 600)						
Sub Deck/Deck Underside				5	5	
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 290)						
Defects (Percent Area)		2				
Span Alignment Problems						
Vertical (Y/N)		Yes			Abut1, 200mm lower than centre span. Abut 2, 100mm lower than centre span.-04-Feb-2010	
Horizontal (Y/N)		No				
Superstructure General Rating				3	3	
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)							Minor cracking in caps, A1 cap rotating South slightly. Coring of caps indicated no rot present.-04-Feb-2010	
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) : 300)								
(Width(mm) : 300)								
Backwalls/Breastwalls					4	5		Backwall sheeting installed on stream side on both abutments. Planks too short losing fill SW corner.-04-Feb-2010
Greatest Height (m)		2.50						
Wingwalls					4	4	S.W. corner, ends of planks broken off. Missing tin top on NW wing piles.	
(Total Number of Bearing Piles : 4:4)							Shrinkage cracking in 5 piles, 8mm check 1 pile on A2 P2. A1P2 repaired with steel and concrete.	
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Piles					6	6		
Paint/Coating					X	X		
Abutment Stability					5	5		A1 cap rotating to the South slightly.
Scour/Erosion					4	N		Loss of abutment material on SW corner of South abut.04-Feb-2010 Snow covered
Piers/Bents								
(Type : PIER-COLUMN)								
(Total Number of Caps/Corbels : 1:1)							P1P4 is rotten and has vedrticval split between 10 to 20mm gap as per Level 2 Coring Inspection.	
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Bearing Seats/Caps/Corbels					7	6		
(Type : TREATED TIMBER)								
(Depth(mm) : 300)								
(Width(mm) : 300)								
(Total Number of Bearing Piles : 5:5)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	1				
Now	0	0	0	1				
Pier Shaft/Piles					3	3		
Greatest Height (m)		4.50						
Bracing/Struts/Sheathing					5	5		
Nose Plate					X	X		
Paint/Coating					X	X		
(Colour Description :)								
(Colour Code :)								
Pier Stability					7	7		
Scour					7	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
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		7	7	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
PATCH DECK							
REPLACE STRIP DECK	2013	As per 2010 Assessment					
REPLACE SUB DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Add tin tops to NW wing piles.					
OTHER ACTION	2013	Repair as per 2010 Assessment.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	40.2/38.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor P1P4. Monitor loss of fill on SW corner on abutment 1. Unable to confirm due to snow. Monitor crack in Span 1 stringer 4 and crack in Span 2 stringer 6 @ end.		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	Lisbeth Medina			
Next Inspection Date	12-Jun-2016		Previous Inspection Date	04-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							