

Bridge Inspection							
Bridge File Number	70773 -1 Bridge			Form Type	PT		
Year Built/Year Supstr	1928/1928			Lot No.	2		
Bridge or Town Name	ROSEDALE			Inspector Name	Jason Saly		
Located Over	ROSEBUD RIVER, 3.33, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	10X:02 C1 1.979			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	07-Mar-2013		
Legal Land Location	NW SEC 18 TWP 28 RGE 19 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:40:09, 51:24:03			Data Entry Date	27-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	21-Mar-2013		
Clear Roadway/Skew	4.9 /			Dept. Reviewer Name	Chris Black		
AADT/Year	580 / 2011 (A)			Dept. Review Date	28-Mar-2013		
Road Classification	RLU-208-100			Follow-Up By			
Detour Length (km)	15						
Allowable Load (t):	Single	H 24 STRINGER	Semi	HS 34 L2L3	Train	CS3 42 L2L3	---> On Critical Spans --->Critical Member
Design Loading:	HS15						---> Primary Span

Posting Information							
Required Load Posting (t)	Single	24	Semi	35	Truck Train	43	
Posted Loading (t)	Single	24.0	Semi	34.0	Truck Train	40.0	
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)	No	At Bridge (Y/N) Yes
Posted:	Lane	SB	At Junction (Y/N)	Yes	In Advance (Y/N)	No	At Bridge (Y/N) Yes
Remarks	(Bridge #5) Rating dictated by BF 70514.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	Too Low (NW =1090mm, NE,SE & SW = 1050mm)						
Other Sign Types	Stop if oncoming traffic on bridge. Curve						

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	30.0m West of c/l.	Gas	14.0m West of c/l.
Power	3 wire OH 10.0m West of c/l.	Municipal	
Others		Problem (Y/N)	Yes
Remarks	Attached to West bottom chord. 3 connections failed.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curve 120m N. end. Limited sight distance to N.
Vertical Alignment		8	8	
Roadway Width (m)	7.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			(Missed 12 splice bolt locations (5 @ NW, 5 @ SE, 1 @ NE & SW). 29Sep2011) - No missing bolts visible, but partially covered by snow; rating carried forward. Approach rail set too high/0.8M to connect with bridge rail.
Guardrail		4	4	
Length (m)	11.600			
Current Standard (Y/N)	No			Not thrie beam. Guardrail higher than bridgerail.
Termination Type	Turn Down			
Drainage		5	5	Old erosion @ NW not riprapped.
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0046-14)					
Special Features					
Special Feature			X	Truss ID A0046-14 on U1-L0W on E. face near U1.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	0	0	0	0	
Now	50.0	0.0	0.0	0.0	
Wearing Surface/Deck Top		6	6		
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 305)					
Deck Rideability		6	6		
Deck Joints		X	X		
Temperature (deg. C)		-10			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards		5	N	Minor plow scrapes on both wheelguards. (2 damaged vertical WG bolts @ NW; 2 with missing nut & 1 with missing OG washer. 8 WG bolts at joints reduce effectiveness. 29Sep2011) - Mostly snow covered.	
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 305)					
Bridge Rail		3	4	Double layer. Back layer welded to 102 x 102 HSS tube spacers to stop rotation. Missing 1 splice bolt at E. rail. Posts replaced.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking		4	5		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk		X	X		

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PT, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0046-14)							
Wide Load Damage (Y/N)	Yes			Sweep is less than 10mm both trusses WLD/notch in U7L6W - 5mm depth. (Corrosion of diagonal webs with pitting up to 3mm 2006 UT). (2 loose bolts at L5W. 29Sep2011). Pack rust at lower gussets. (Pitted up to 4mm. 2011 UT). 2-hanger bolts distorted @ panels 4 & 6. (1st hole cracked at L4W 2011 UT). Bottom laterals bent 75mm.			
Top Chord		6	6				
Batter Posts		7	7				
Diagonals		5	5				
Verticals		5	5				
Connections		4	4				
Floor Beams		7	7				
Bottom Chord		5	5				
Lateral Bracings		4	4				
(No. of Stringers : 96)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last				New stringers 100 x 200mm @ 760 spacing between 230 x 110 stringers. All @ 360mm spacing, 730 @ exterior.			
Now							
Stringers			6	5	12/bay		
(Type : STEEL)							
(Width(mm) : 110)							
(Depth(mm) : 230)							
(Spacing(mm) : 585)							
Paint Condition		4	4	Light corrosion in splash zone. Active corrosion between some plates. Corrosion on floor beams & stringers.			
(Colour Description : GREEN)							
(Colour Code : 14090)							
Touchup Required (Y/N)	Yes						
Bearings		5	5	(Insufficient bearing A/B thread for nuts. 29Sep2011) - Snow covered.			
Temperature (deg. C)	-10			A2 A1			
(Expansion Type : SLIDING PLATE)							
(Fixed Type : PINNED BEARING)							
Functioning (Y/N)	Yes						
Sub Deck/Deck Underside		5	5	Wide vertical cracking in some ends.			
(Material Type : TREATED TIMBER)							
(Plank Thickness(mm) : 75)							
(Plank Width(mm) : 305)							
Defects (Percent Area)	1						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating		5	4				
Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 900;1500)							

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
(Total Number of Caps/Corbels : 6:6)					
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) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		3.50			
Wingwalls			7	7	
(Total Number of Bearing Piles : 7:7)					
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			5	5	Painted green, flaking.
Abutment Stability			8	8	
Scour/Erosion			7	7	
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	
Debris (Y/N)		Yes		(2 HP's on North headslope project from fill. 29Sep2011). Drift along bottom chord.	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Channel meets bridge @ 30 degree angle. (S.B. to subdeck 5.2. 1996/08/14)
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Vertical banks D/S.
HWM (m below Top of Curb)	1.1			Small drift caught in bottom chord.
Drift (Y/N)	Yes			
Slope Protection		5	5	Scour at NE abutment corner caused by water from road ditch. Class 3 @ NW.
(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		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	1 splice bolt & 1 rail/post bolt.					
RETROFIT BRIDGE RAIL							
PATCH DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2020	Repaint in splash zone & floor system; clean & treat pack rust while painting.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	Remove drift from bottom chord.					
OTHER ACTION	2013	Install bolts at L5W.					
OTHER ACTION	2013	Install 2 wheelguard nuts & 1 OG washer, if not yet done.					
OTHER ACTION	2013	Advise Telus to repair connections.					
OTHER ACTION	2013	Reset Hazard Markers to correct height all 4 corners.					
OTHER ACTION	2013	Replace 12 splice bolts in approach rail.					
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	41.2/45.4	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Check subdeck condition at next strip deck replacement.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.12.29 Sub is good for 40+years (Steel). Super concern is with corrosion(joints). With normal maintenance bridge should be good until 2030.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Wayne Cappellani		Previous Assistant's Name	Chris Black			
Next Inspection Date	07-Dec-2014		Previous Inspection Date	29-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							