

Bridge Inspection							
Bridge File Number	70511 -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 2.884			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	07-Mar-2013		
Legal Land Location	SE SEC 19 TWP 28 RGE 19 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:39:38, 51:24:21			Data Entry Date	27-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	20-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)	No	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 #3) Rating dictated by BF 70514.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Stop if oncoming traffic on bridge, 45 kph/curve.						

Utilities (Located at)			
Utility Attachments			
Telephone	E ditch.	Gas	25m West of c/l.
Power	3 wire OH 8m West of c/l.	Municipal	
Others	CPR bridge 20m East of c/l.	Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Road is windy to S, cannot travel at design speeds.
Vertical Alignment		6	6	Shallow crested hill 300m N.
Roadway Width (m)	6.700			Cold mix. ACP worn at bridge ends.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			SW rail leaning inward.
Guardrail		4	4	(Incorrect lap at exiting ends & at SE corner at bridge. 25May2011). Missing splice bolts.
Length (m)	15.200			
Current Standard (Y/N)	No			SW - 26.6m; NW & SE - 19.0m; NE - 15.2m.
Termination Type	Turn Down			Not connected to bridgerail & insufficient posts.
Drainage		8	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0046-12)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	0	0	0	0	
Now	20.0	0.0	0.0	0.0	
Wearing Surface/Deck Top			7	7	
(Material Type : EKKI WOOD)					
(Plank Thickness(mm) : 60)					
(Plank Width(mm) : 182)					
Deck Rideability			5	5	
Deck Joints			X	X	
Temperature (deg. C)		-10			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards			7	7	500 x 245 x 150 TT blocking. Trimmed around batter posts.
(Curb Type : Standard)					
(Type : EKKI WOOD)					
(Thickness(mm) : 150)					
(Width(mm) : 245)					
Bridge Rail			4	4	Double layer flexbeam. No bulb end at NW. Improper splice bottom flexbeam welded to spacers to prevent rotation. NE terminal end improper lap, torn & missing bulb end. 102 HSS blocking. Improper lap at NW corners.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : PAINT)					
Sidewalk			X	X	

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : PT, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0046-12)						
Wide Load Damage (Y/N)	No					Reinforcing channel attached over original double angle members. Minor sweep in both top chords, to East. Corrosion between plates @ diagonals & B.C. Open holes at wheelguard height (14 total). (Minor truss defects - see UT 2007 for details. 25May2011). Some rust in lower connections. L3L4W minor bend. 12 per bay. Strengthening stringers are 100mm x 200mm, between 230 x 110 stringers @ 380mm. 9For details see 2011 UT report. 25May2011).
Top Chord			6	6		
Batter Posts			7	7		
Diagonals			7	7		
Verticals			6	6		
Connections			5	5		
Floor Beams			7	6		
Bottom Chord			5	5		
Lateral Bracings			5	5		
(No. of Stringers : 96)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Stringers			6	6		
(Type : STEEL)						
(Width(mm) : 110)						
(Depth(mm) : 230)						
(Spacing(mm) : 760)						
Paint Condition			4	4		5% superficial corrosion in splash zone & between members.
(Colour Description : BLUE)						
(Colour Code : 15182)						
Touchup Required (Y/N)	No					
Bearings			4	4		Corrosion at bearing plates. A2 A1
Temperature (deg. C)	-10					
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)						
(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			4	4		
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						S abut encased on concrete. N abut at base of backwall.
(Extended Backwall Piles Spacing(mm) : 1200)						

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 8:8)				2 - HP310 corbels on 2 HP310 caps/bearings, 14 total. 1 - HP310 BW cap, 2 total.				
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			8				8	
(Type : STEEL)								
(Depth(mm) : 310)								
(Width(mm) : 305)								
Backwalls/Breastwalls			8				8	
Greatest Height (m)		3.90						
Wingwalls			8	8				
(Total Number of Bearing Piles : 8:8)				4 BP HP310 / bearing, 16 total. 3 BW HP310 / abutment, 6 total. 2 EXT HP310 / abutment, 4 total. 2 WW HP310 / abutment, 4 total.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Piles			8				8	
Paint/Coating			8				8	
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								
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								
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)		No						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Channel meandering through valley.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.7			(1.65m. 25May2011).
Drift (Y/N)	Yes			(Drift on top of S backwall cap. 25May2011).
Slope Protection		5	5	Rock at A1, loosely placed at A2. Local scour @ A2 slope.
(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	2013	Re-lap NE, SE & SW ends & connect all 4 corners to guardrail.					
RETROFIT BRIDGE RAIL							
PATCH DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2020	Consider paint in splash zone if keeping structure for many years.					
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	2013	Plug excess drilled holes in vertical members (14).					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	49.2/47.2	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Check corrosion & blisters. Review maintenance actions with future HWY realignment.		Department Comments				
Maintenance Reviewed By			Date	Estimated Total		0	
Proposed Long-Term Strategy	2006.12.29 Bridge could be eliminated with road re-alignment. Maintain as long as cost effective. Bridge should be good until 2040 with normal maintenance.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Bryce Clayton				
Next Inspection Date	07-Dec-2014	Previous Inspection Date	25-May-2011				
Inspection Cycle (Default) (months)	21						
Comment							