

Bridge Inspection									
Bridge File Number	70514 -1 Bridge				Form Type	PT			
Year Built/Year Supstr	1922/1928				Lot No.	1			
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 0.494				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	06-Mar-2013			
Legal Land Location	SE SEC 18 TWP 28 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:39:42, 51:23:23				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)	Yes	In Advance (Y/N)	Yes	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 #8) Rating dictated by this site.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Various heights.								
Other Sign Types	Stop if oncoming traffic on bridge; Max. 80km/hr; Bend in road ahead - NB								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Attached to W				Gas	30.0m U/S.			
Power	3 wire 10.0m E				Municipal				
Others					Problem (Y/N)	Yes			
Remarks	Conduit pulled apart @ SW.								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	4	Sharp curve North of bridge. 80km/hr speed limit.				
Vertical Alignment			7	7					
Roadway Width (m)	7.700				Shortest @ SW corner Not attached to bridgerail & insufficient posts; not thrie beam.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	5					
Length (m)	12.300								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			5	4					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PT, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0046-13)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow/dirt covered.	
Last	0	0	0	0		
Now	5.0	0.0	0.0	0.0		
Wearing Surface/Deck Top				5	5	(110 & 125mm gaps to wheelguard - patched. 06Jun2011).
(Material Type : UNTREATED TIMBER)				(1 plank loose at 1 end; suspect rotten subdeck plank. 06Jun2011) - Department's comments indicated repairs completed.		
(Plank Thickness(mm) : 75)						
(Plank Width(mm) : 305)						
Deck Rideability				7	7	
Deck Joints				X	X	
Temperature (deg. C)		-11				
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Curbs/Wheel Guards				4	4	(1 block split; 1 rotted. 06Jun2011). Splintering - minor. Crack in TT at midspan, E wheelguard.
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm) : 75)						
(Width(mm) : 305)						
Bridge Rail				4	5	Double layer with nonstandard splice.
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts/Blocking				5	5	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				6	6	
(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: A0046-13)						
Wide Load Damage (Y/N)		No				Top chord sweep of 10mm. Minor 15mm localized bends @ U4L4 West & East. (Missing 1 bolt connecting mid knee brace to FB @ U4L4E. 06Jun2011). Bottom laterals in panels 1-6 bent up to 100mm. 4 lines of additional steel stringers added per bay 100 x 200. Spacing is now 380 in wheelpaths. 9For details see 2011 UT Report. 06Jun2011). Top flanges corroding with possible loss of section.
Top Chord		6		6		
Batter Posts		7		7		
Diagonals		5		5		
Verticals		5		5		
Connections		4		4		
Floor Beams		7		7		
Bottom Chord		6		6		
Lateral Bracings		4		4		
(No. of Stringers : 96)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Stringers		5		5		
(Type : STEEL)						
(Width(mm) : 110)						
(Depth(mm) : 230)						
(Spacing(mm) : 380)						
Paint Condition		4		4		Active corrosion between builtup diagonals & top flange of stringers resulting in possible loss of section.
(Colour Description : GREEN)						
(Colour Code : 14090)						
Touchup Required (Y/N)		Yes				
Bearings		5		5		New anchor bolt installed. Truss jammed both ends. A2 A1
Temperature (deg. C)		-11				
(Expansion Type : SLIDING PLATE)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)		No				
Sub Deck/Deck Underside		4		4		Some ends showing rot. (Suspect rot at loose stripdeck planks. 06Jun20110.
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 305)						
Defects (Percent Area)		5				
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)						
(Extended Backwall Piles Spacing(mm) : 1500)						

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
(Total Number of Caps/Corbels : :)				S abut strengthened with steel piling & steel cap.			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)				3 (count)
Last	100	0	0				0
Now	0	0	0				0
Bearing Seats/Caps/Corbels		4	4	H-pile cap missing stiffener under bearing zone. N abut filled with concrete. Rot in W end of front cap at N abut. Not all caps visible to obtain count. N breastwall cap has widespread rot. Corbels at SE also rotten; none of these caps or corbels are load bearing.			
(Type : STEEL)							
(Depth(mm) : 305)							
(Width(mm) : 305)							
Backwalls/Breastwalls		4	4	N breastwall has extensive rot.			
Greatest Height (m)		3.50					
Wingwalls		4	4	NE wingwall appears to have been removed/buried, OK as is. NW wall pushing in.			
(Total Number of Bearing Piles : 8:8)				All piles are buried. Count assumed.			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)				3 (count)
Last	16	0	0				0
Now	16	0	0				0
Piles		N	N	Steel caps & breastwall plate have rust.			
Paint/Coating		4	4				
Abutment Stability		6	6	S hslp eroding - not a threat presently.			
Scour/Erosion		5	5				
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				

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 : E)				Rail bridge 60m D/S.
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		5	5	Vertical banks U/S.
HWM (m below Top of Curb)				
Drift (Y/N)	No			
Slope Protection		5	5	
(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	

Proposed Long-Term Strategy	2006.12.29 Sub timber and steel good for 10+ Years. Super in fair condition, issue will be corrosion of joints. With normal maintenance good until 2020.		
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	06-Dec-2014	Previous Inspection Date	06-Jun-2011
Inspection Cycle (Default) (months)	21		
Comment			

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
PATCH DECK						
REPLACE SUB DECK						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE	2015	Steel caps and truss floor system; clean & treat pack rust issues while painting.	Defer until replacement	2016		
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS	2015	Replace timber caps with steel or monitor their condition. Add stiffeners to caps under corbels.	Defer until replacement	2016		
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2015	Attach guardrail to bridgerail.	Defer			
OTHER ACTION	2013	Reset HMs to std.	Defer until replacement	2016		
OTHER ACTION	2013	Notify Telus to repair conduit.	Defer			
OTHER ACTION	2013	Replace 2 - 150 x 300 x 450 blocks, if not yet done.	Defer until replacement	2016		
OTHER ACTION	2013	Consider installing speed sign (50km/hr) at N approach.	Operations	2013		
OTHER ACTION	2013	Selectively replace sub deck at next strop deck replacement.	Defer until replacement	2016		
OTHER ACTION	2013	Place bolt at L4E.	Defer until replacement	2016		
OTHER ACTION	2013	Replace rotted breastwall planks.	Defer until replacement	2016		
OTHER ACTION	2013	Assess & defer appropriate repairs if replacement is short-term schedule.	Defer			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	41.7/33.2	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes

Special Comments for Next Inspection	No action for wingwalls.		Department Comments	Currently scheduled for replacement in PMA for 2016. DA	
Maintenance Reviewed By	Darron Ahlstedt	Date	30-Apr-2013	Estimated Total	0
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On 3-Year Program (Y/N)					
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