

Bridge Inspection											
Bridge File Number	73410 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1961/1961				Lot No.	2					
Bridge or Town Name	STEEN RIVER				Inspector Name	Brian Pientsch					
Located Over	STEEN RIVER, 9.6, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	35:20 C1 0.001				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	13-Jan-2012					
Legal Land Location	NW SEC 3 TWP 122 RGE 19 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-117:11:34, 59:34:33				Data Entry Date	06-Feb-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA01				Review Date	06-Feb-2012					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	David Morrison					
AADT/Year	370 / 2011 (A)				Dept. Review Date	04-Apr-2012					
Road Classification	RAU-210-110				Follow-Up By						
Detour Length (km)	999										
Allowable Load (t):	Single	CS1 70 GIRDER			Semi	CS2 95 GIRDER			Train	CS3 123 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span	

Posting Information										
Required Load Posting (t)			Single				Semi			
Posted Loading (t)			Single				Semi			
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			Mounted on approach rail posts - not at correct height, Not required							
Other Sign Types			Steen River, curve ahead after bridge to N & S Both bridge plaques missing.-03-Jun-2010 Snow covered.							

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks: No utilities visible										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Curves at both approaches - no passing					
Vertical Alignment			7	7						
Roadway Width (m)		10.500								
Approach Bump			6	6						
Guardrail (Y/N)		Yes								
Guardrail			3	N	Insufficient posts at bridge, and length. Minor dents and scrapes.- 03-Jun-2010 Snow covered.					
Length (m)		30.400								
Current Standard (Y/N)		No								
Termination Type		TURNED DOWN ENDS								
Drainage			5	N	Snow covered.					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>RB, 3 Spans, Lengths(m): 18.6-21.9-18.6, A-Ident Number: A0358-01</b> )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	10					
<b>Now</b>	100.0	0.0	0.0	0.0		
Wearing Surface			4	N	2 small potholes 250x250 and 250x500 centre of span 1.-03-Jun-2010	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )			Snow covered.			
Deck Top			N	N	Paved over	
Deck Rideability			5	5		
Deck Joints			6	N	Snow and ice covered.	
Temperature (deg. C)		-13				
(Expansion Type : <b>TYPE 1 STRIP SEAL</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
80		Abut. #1				
80		Abut. #2				
Deck Drainage			5	N		
Drains Clogged (Y/N)		No				
Curbs/Median			4	N	Rust staining from rebar (photo) Severe concrete scaling.-03-Jun-2010	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		60		Snow covered.		
Bridge Rail			4	N	Panels are not connected to each other or to the parapets. Missing 7 anchor nuts, 17 anchor nuts without threads fully engaged. Unsound concrete under some anchor posts (photo)-03-Jun-2010	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			3	N	Snow covered.	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	N		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			3	7	One bolt missing on 2nd girder from west on south span, abutment girder to pier girder splice. PHOTO	
Flange			7	7		
Web			7	7		
Stiffeners			X	X		
Splice			3	4		
Weld			3	5		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>RB, 3 Spans, Lengths(m): 18.6-21.9-18.6, A-Ident Number: A0358-01</b> )				
Paint Condition		4	3	Paint flaking off bottom flanges of girders. Rusting, heavy rust at drain location.
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Touchup Required (Y/N)	Yes			
Bearings		4	4	Hingebolt S. abut. backed out 12 mm - photo.G2,3,4&5 N. abut slightly contracted- S.abut. fully contracted.
Temperature (deg. C)	-13			
(Expansion Type : <b>ROCKER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	No			
Deck Underside		4	N	Leaching from transverse cracks throughout deck, 3 - 5 per span Concrete adjacent to deck joints on both abutments deteriorating due to salt.-03-Jun-2010 Frost covered.
Stains (Percent Area)	15			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>4</b>	GR carried fwd.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		4	5	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		3	5	
Wingwalls		4	4	Severe concrete scaling
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		6	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		5	7	
Paint/Coating		4	N	Nose plate rusting.-03-Jun-2010 Frost covered.
(Colour Description : )				
(Colour Code : )				
Pier Stability		5	5	South pier leans slightly towards river, approx 200mm.
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Bends u/s and d/s.
(D/S Direction : <b>E</b> )				
Alignment		6	5	
Bank Stability		5	5	Banks sloughing at outside banks at bends
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	Yes			Large size
Slope Protection		5	5	North headslope only. South headslope has no protection.
(Type : <b>NONE; BAGGED CONC</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair post anchors-03-June-2010 Snow covered.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2012	Snow covered.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2012						
STRAIGHTEN/REPLACE MEMBERS	2012	Missing girder splice bolt.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	replace both bridge plaques.-03-Jun-2010 Snow covered.					
OTHER ACTION							
OTHER ACTION							
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<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.8/65.0</b>	Est. Repl. Yr	2031	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	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	13-Oct-2013	Previous Inspection Date	04-Jun-2010
Inspection Cycle (Default) (months)	21		
Comment			