

Bridge Inspection							
Bridge File Number	00698 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1965/1965			Lot No.	1		
Bridge or Town Name	RIMBEY			Inspector Name	Owen Salava		
Located Over	BLINDMAN RIVER, 3.78, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	20:06 C1 3.013			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Jul-2012		
Legal Land Location	NE SEC 8 TWP 43 RGE 2 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:14:43, 52:41:44			Data Entry Date	20-Aug-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	30-Jul-2012		
Clear Roadway/Skew	11 / 40 deg. (RHF)			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	3,180 / 2011 (A)			Dept. Review Date	21-Aug-2012		
Road Classification	RCU-211-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 51 GIRDER	Semi	CS2 62 GIRDER	Train	CS3 73 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> 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	Not required.							
Hazard Marker At Bridge (Y/N)	No							
Remarks								
Other Sign Types	River ID "Medicine Lake Road".							

Utilities (Located at)			
Utility Attachments			
Telephone	In r/w to West.		Gas
Power			Municipal
Others	Fiber optics in West row.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve starts 150 m South. Entrance 50m SE.
Vertical Alignment		7	7	
Roadway Width (m)	11.000			Not thrie-beam.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	70.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		5	5	Small 400mm gully formed on SE headslope.
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>PO, 2 Spans, Lengths(m): 28.7-28.7, A-Ident Number: )</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	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	4	Minor spall along curb paving edge, S1, near pier.
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	Fingers tight at sides but functional. A2 joints not level causing 12mm lip. Plow could catch finger plates. P1 joints appear to be Koch or elastomeric material.
Temperature (deg. C)		30			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>OTHER</b> )					
Gap Size (mm)		Gap Location			
45		S. abut			
30		N. abut			
Deck Drainage			4	5	Drainage through ACP over piers and curb caps has corroded bearing. Pathed at pier. HDPE drain plumbing. SE deck drain eroding bank below (minor). (Water ponding along gutters at 4 locations identified in photos. 04/07/21)
Drains Clogged (Y/N)		No			
Curbs/Median			N	4	Light scaling. Spall over pier, East side. Patch of heavy scaling on SW. SW corner has exterior spall with rebar exposed near post anchor assembly.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Concrete spall at post at SW corner.
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>PO, 2 Spans, Lengths(m): 28.7-28.7, A-Ident Number: )</b>				
Girders		5	5	Rust stains on G1S1 under pier joint but no cracks.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : <b>12</b> )				
Diaphragms/Cross Frame		4	4	Missing 1 diaphragm S2G1,2.
Bearings		3	3	Rocker A/B corroded & sheared at A1 G3. Grout completely gone at G1, G2, G6 - A1 and G6 - A2.  Severe corrosion at 80% (photo). Appear frozen by corrosion at South.
Temperature (deg. C)	30			
(Expansion Type : <b>SLIDING PLATE</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	Yes			Joints are not level by 12mm at A2.
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		4	5	Small 150x300 spall in AZ at NE.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		6	6	Minor gully at SE corner.
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				There are cracks below exterior anchor bolts for approx 700 mm with narrow width with corrosion stains and 1 area spalled NW; encroaching SW exterior of bearing. Spall cracks at east end also.
Bearing Seats/Caps		3	3	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		5	5	
Paint/Coating		4	4	70% superficial corrosion at nose plate. No coating on pier.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	5	
Debris (Y/N)	Yes			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		6	6	
Bank Stability		6	6	Minor erosion @ SE with ample bank before it is a problem.
HWM (m below Top of Curb)	1.8			Drift at pier seat.
Drift (Y/N)	Yes			
Slope Protection		5	5	Minor erosion at south bank. Some scattered rock.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	



Comment

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**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Approx. 1m(2) curb spalls	At rehab	2012			
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2012	Replace bearings with neoprene pads.	At rehab	2012			
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Re-install shear A/B @ 3rd girder, if bearings not replaced.	At rehab	2012			
OTHER ACTION	2012	Repair pier spalls.	At rehab	2012			
OTHER ACTION	2012	Install 4 deck drains as located by previous photo. (Deck ponding).	At rehab	2012			
OTHER ACTION	2012	Repair finger misalignment.	At rehab	2012			
OTHER ACTION	2012	Replace missing S2 diaphragm G1,2.	At rehab	2012			
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.3/50.9</b>	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	HDPE drain plumbing installed at abuts prior to 2012 inspection.		Department Comments	Rehab programmed for 2012			
Maintenance Reviewed By	Andrew Smikles		Date	30-Nov-2012	Estimated Total	0	
Proposed Long-Term Strategy							

On 3-Year Program (Y/N)	Y		
Proposed Action	2008.02.12 Repair in 2008/09 (Joints, bearings, seal piers & abutments, paint diaphragms, other work. Bridge should be good until 2035.		
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	10-Apr-2014	Previous Inspection Date	08-Dec-2010
Inspection Cycle (Default) (months)	21		
Comment			