

Bridge Inspection									
Bridge File Number	02082 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1960/1960				Lot No.	1			
Bridge or Town Name	CORONATION				Inspector Name	Owen Salava			
Located Over	RIBSTONE CREEK, 5.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	599:06 C1 18.890				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	29-Jun-2012			
Legal Land Location	SW SEC 1 TWP 38 RGE 9 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-111:09:49, 52:13:49				Data Entry Date	15-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA22				Review Date	05-Jul-2012			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	720 / 2011 (A)				Dept. Review Date	19-Jul-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	0.8m to bottom, mounted off bridge.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Bolted on South rail.				Gas				
Power	1 wire North r/w.				Municipal				
Others					Problem (Y/N)		Yes		
Remarks	Conduit separated @ SE.								
Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7	Farm entrance @ NW, field entrance @ SW.				
Vertical Alignment			8	8					
Roadway Width (m)	10.500								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Insufficient length and posts.				
Guardrail			7	7					
Length (m)	8.000								
Current Standard (Y/N)	No								
Termination Type	Bulb & Turn Down								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number: )					
<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>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Longitudinal cracks between 50% of girders.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	110 x 140mm hole in curb face SP2, South curb - photo.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Single layer.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			5	5	
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	40% paint deteriorated on posts.
(Type : <b>PAINT</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	26 of 36 girders with wide longitudinal cracking or have spalling in AZ with wide longitudinal cracking or spalling in other leg. PG girders + 1 rating. Unable to access S2 due to high water.
<b>Last</b>				1	
<b>Now</b>	12	0	0	0	
Girders			3	N	(S2G6 spall & wide longit. cracking in both legs in AZ. Concrete looks ok - photo. Rebar painted in some spalls S2,6-7 E end leg spall. Est 10% section loss of main longit. steel - photo. 06Oct2009).
Last Complete Inspection Date		06-Oct-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		7			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>36</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	GR carried forward from 06Oct2009.

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>4:4</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>305</b> )						
(Width(mm) : <b>305</b> )						
Backwalls/Breastwalls				N	N	Fill to cap.
Greatest Height (m)		1.20				
Wingwalls				6	6	
(Total Number of Bearing Piles : <b>0:0</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100					
<b>Now</b>	100	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				5	5	Some loss of A1 hslp.
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
Changed caps 7/1992.						
(Total Number of Caps/Corbels : <b>4:4</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>305</b> )						
(Width(mm) : <b>355</b> )						
(Total Number of Bearing Piles : <b>9:9</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				6	6	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing				4	4	2 - 70 x 285 bracing planks cracked. Bracing not extended to outside piles.
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		5	5	
Debris (Y/N)	Yes			Old piles in streambed.
<b>Substructure General Rating</b>		<b>5</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Follows road u/s, turns 70 deg into bridge 10m u/s.
(D/S Direction : <b>N</b> )				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Toe of W slope eroded.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	Farmer has placed fence under bridge.
(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>	

Maintenance Recommendations									
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #			
REPAIR/REPLACE BRIDGE RAIL									
SEAL CURBS	2012	Patch hole in curb, 0.05m3 OH-V.							
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL STRUTS									
OTHER ACTION	2012	Cut off old piles to grade.							
OTHER ACTION	2012	Re-seal ACP cracks.							
OTHER ACTION									
OTHER ACTION									
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.1/59.4</b>	<b>Est. Repl. Yr</b>	<b>2019</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>		
Special Comments for Next Inspection	Monitor exposed rebar areas.		Department Comments						
Maintenance Reviewed By		Date	Estimated Total	0					
Proposed Long-Term Strategy	Monitor pavement and bridge on normal BIM. Bridge should be good until 2020.RS								
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava	Previous Assistant's Name							
Next Inspection Date	29-Sep-2015	Previous Inspection Date	06-Oct-2009						
Inspection Cycle (Default) (months)	39								
Comment									

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2012	Patch hole in curb, 0.05m3 OH-V.	Next time on site			
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Cut off old piles to grade.	Next time on site			
OTHER ACTION	2012	Re-seal ACP cracks.	To operations			
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.1/59.4</b>	Est. Repl. Yr	2019	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Monitor exposed rebar areas.		Department Comments	Tentatively programmed to be replaced in 2022. AS		
Maintenance Reviewed By	Andrew Smikles		Date	23-Aug-2012	Estimated Total	0
Proposed Long-Term Strategy	Monitor pavement and bridge on nomral BIM. Bridge should be good until 2020.RS					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			
Next Inspection Date	29-Sep-2015		Previous Inspection Date	06-Oct-2009		
Inspection Cycle (Default) (months)	39					

Comment	
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