

Bridge Inspection							
Bridge File Number	72640 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1971/1971			Lot No.	2		
Bridge or Town Name	CADOMIN			Inspector Name	Shane Hall		
Located Over	MCLEOD RIVER, 8.11.107, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	40:26 C1 20.351			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	16-Oct-2012		
Legal Land Location	SE SEC 30 TWP 47 RGE 22 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:11:52, 53:04:46			Data Entry Date	20-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	12-Nov-2012		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	160 / 2011 (A)			Dept. Review Date	20-Nov-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	83						
Allowable Load (t):	Single	CS1 55 GIRDER	Semi	CS2 64 GIRDER	Train	CS3 75 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	Not required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Leaning slightly.							
Other Sign Types	Information, "McLeod River".							

Utilities (Located at)			
Utility Attachments			
Telephone	North r/w.		Gas
Power	3 wires 30m North r/w.		Municipal
Others	WSC gauge at NE corner.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Between 2 gradual horiz. curves. Limited sight distance.
Vertical Alignment		7	7	
Roadway Width (m)	8.000			Pothole 0.3mx1.5mx50mm deep at AZ on deck-photo
Approach Bump		4	4	Potholes at bridge approaches.
Guardrail (Y/N)	Yes			Small tear NE transition section. Insufficient length & posts, no blocks on posts off bridge. No thrie beam.
Guardrail		4	4	Splice improper lap - photo. Minor creases but functioning. 25.9m @ NW & SE; 33.5m at NE & SW.
Length (m)	25.900			One section torn at NW.-photo
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		4	4	Gravel windrows under approach rail impedes drainage.-photo
<b>Approach Road General Rating</b>		<b>6</b>	<b>4</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>FC, 1 Spans, Lengths(m): 35.1, 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>	0	0	0	0	
<b>Now</b>	20.0	0.0	0.0	1.0	
Wearing Surface			4	3	Wide map cracking throughout.-photo Several shallow potholes in deck, others forming.-photo
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			4	4	Potholes in deck.
Deck Joints			4	4	Concrete paving lip on South side of finger joint deteriorating. -photo Pothole at North abut.-photo
Temperature (deg. C)		6			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>ASPHALTIC FIBRE BOARD</b> )					
Gap Size (mm)		Gap Location			
75		South			
0		North			
Deck Drainage			6	4	Weep tube seepage with stains to curb girders. Efflorescence at diaphragms and upper girder. Flanges along A1. Gravel along curbs impedes drainage. No deck drains. Flanges along A1. Drains blocked with snow and ice.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Numerous grader scrapes..
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	4	7 missing splice bolts on E & W rail.-photo Short thread bolts @ several post bases.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		7	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 1 Spans, Lengths(m): 35.1, A-Ident Number: )				
Girders		4	4	Staining at weep holes. Narrow longitudinal cracking @ bottom leg G1 near A1, also at G5A2. - photo. Typical chamfer cracks. Diagonal cracking near top of end diaphragm to bottom girder - marked @ G4E, G1W,G2W,G3W & E, G4E&W,G5E&W. Small chips out of the edge of the curb unit, north side. Minor. Efflorescence at chafer at 2G1 East leg, A2G3 E & W.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 6)				
Diaphragms/Cross Frame		4	4	Efflorescence @ A1 ends to girders. Spalling @ A1G6.
Bearings		4	4	A1G1 West bearing shoe plate separated from girder - photo. Bearing pads @ A2G1 squishing on E side @ W leg.-photo
Temperature (deg. C)	6			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	7	Diagonal cracks @ end blocks.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		6	7	
Scour/Erosion		4	4	Fill settled under both abutments leaving gap - photo.
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
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			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				CNR bridge 90m D/S. Bend U/S.
(D/S Direction : <b>S</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	5	
(Type : <b>RIP RAP</b> )				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install missing splice bolts.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2013						
REPAIR/REPLACE DECK JOINTS	2013	Patch deteriorating concrete paving lip.					
RESET/ PAINT BEARINGS	2013	Reset A1G1 bearing & weld shoe plate to girder.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Remove gravel accumulation under guardrails and along curbs.					
OTHER ACTION	2013	Replace damaged W - Beam guardrail sections.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.8/50.3</b>	Est. Repl. Yr	2045	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking. Monitor deformed bearings.		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	Wayne Cappellani		Previous Assistant's Name	Bryan Wai			
Next Inspection Date	16-Jul-2014		Previous Inspection Date	03-Oct-2012			
Inspection Cycle (Default) (months)	21						
Comment							