

Bridge Inspection											
Bridge File Number	77782 -1 Bridge				Form Type	PSR					
Year Built/Year Supstr	1977/1977				Lot No.	3					
Bridge or Town Name	COLEMAN				Inspector Name	Garry Roberts					
Located Over	EMERALD LAKE, 2.12.37.21, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	3:02 C1 3.983				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	28-Nov-2011					
Legal Land Location	SE SEC 8 TWP 8 RGE 5 W5M				Data Entry By	Alyssa Boynton					
Longitude, Latitude	-114:38:36, 49:37:42				Data Entry Date	05-Jan-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey					
Contract Main. Area	CMA26				Review Date	08-Dec-2011					
Clear Roadway/Skew	13.4 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	6,470 / 2010 (A)				Dept. Review Date	10-Jan-2012					
Road Classification	RAU-213.4-120				Follow-Up By						
Detour Length (km)	5										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> 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)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not req.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not Required.									
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Fiber optic attached to North curb				Problem (Y/N)	No				
Remarks										

Approach Road										
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>					
Horizontal Alignment			6	6	Downhill grade to the west with a curve 200 m west.					
Vertical Alignment			6	6						
Roadway Width (m)	13.400				Broken post @ SE and 2 at SW. Missing 1 bolt @ transition to GR @ NW. Missing 2 splice bolts at SE and 4 at NW, NE and SW. Missing post to rail bolt at SW. NW T.D. end is damaged. Not thriebeam.					
Approach Bump			6	6						
Guardrail (Y/N)	Yes									
Guardrail			3	3						
Length (m)	34.000									
Current Standard (Y/N)	No									
Termination Type	TURNED DOWN									
Drainage			5	5						
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-24.4-15.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Chipseal 60% worn. Grout key longit 1 mm crack from abut to abut at 5 keys.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			7	7	
Deck Rideability			7	7	
Deck Joints			5	5	MINOR DAMAGE AT EAST ABUTMENT JOINT FROM SNOW PLOWS - from past low ACP @ approach - (top layer of gland torn @ E abut joint @ WBL) - gravel covered.- Could not confirm. No evidence of seal leakage.
Temperature (deg. C)		3			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
75		E abut			
75		E. pier			
75		W. pier			
75		W. abut			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	some cracks & corrosion @ S
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Several post A/B nuts are just flush.
(Type : <b>STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			5	5	Surface corrosion @ scrapes
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			5	5	
(Type : )					
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>	0	0	0	0	
Girders			7	5	Minor H-line longitudinal cracks in bottoms of 50%. Vertical crack at at Sp.1 - G1.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>36</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-24.4-15.2, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	3			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Staining through crks @ grout keys No active leakage seen @ past insp
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	7	
Wingwalls		8	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Tar
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	The SW pier cap has a vertical crack from drip tin to top.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		8	7	
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>S</b> )		Flows between lakes.		
(D/S Direction : <b>N</b> )				
Alignment		9	9	
Bank Stability		9	9	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	No			
Slope Protection		8	7	
(Type : )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>9</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 1 5/8x12" post bolt at SW approach.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2012	GFE 5 lines of grout key cracks.					
OVERLAY DECK	2012	Replace chipcoat or remove remaining chipcoat.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Install 1-200x150x1500 GR posts @ SE and 2 at SW					
OTHER ACTION	2012	Install 1-16x50mmx16 bolt @ NW trans - replace T.D rail section at NW.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.6/62.8</b>	Est. Repl. Yr	2038	Maint. Req'd. (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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	28-Aug-2013		Previous Inspection Date	17-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							