

Bridge Inspection									
Bridge File Number	01969 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1977/1977				Lot No.	2			
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch			
Located Over	2ND ORDER TRIBUTARY TO WABASCA RIVER, 8.10.18.9, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:12 C1 25.790				Assistant Name	Clem Guenette			
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Jun-2012			
Legal Land Location	NE SEC 18 TWP 95 RGE 8 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:16:59, 57:14:39				Data Entry Date	19-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA02				Review Date	01-Nov-2012			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	David Morrison			
AADT/Year	180 / 2011 (A)				Dept. Review Date	11-Jan-2013			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	300								
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	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									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Shallow sag				
Vertical Alignment			7	7					
Roadway Width (m)	10.800								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	30.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNED DOWN ENDS								
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-6.1-6.1, 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>	40	0	0	0	
<b>Now</b>	78.0				
Wearing Surface		X	X		
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top		7	7		
Deck Rideability		7	7		
Deck Joints		6	6		
Bump (Y/N)		No			
Deck Drainage		7	7	No drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		6	6		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		5	5		
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts		5	5		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders		5	5		
Last Complete Inspection Date		06-Jun-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>27</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>		

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : <b>Y</b> )					
(Extended Backwall Piles Spacing(mm) : <b>1000</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels				8	8
(Type : <b>STEEL;TREATED TIMBER</b> )					
(Depth(mm) : <b>310</b> )					
(Width(mm) : <b>300</b> )					
Backwalls/Breastwalls				4	4
Greatest Height (m)		2.20			
Wingwalls				6	6
(Total Number of Bearing Piles : <b>10:10</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Piles				5	5
Paint/Coating				X	X
Abutment Stability				5	5
Scour/Erosion				4	4
Loss of material under North backwall. Bottom planks not adequately attached to piles.					
Loss of embankment material through North backwall planks due to soil presure.					
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels				8	8
(Type : <b>STEEL</b> )					
(Depth(mm) : <b>360</b> )					
(Width(mm) : <b>360</b> )					
(Total Number of Bearing Piles : <b>18:15</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Pier Shaft/Piles				5	5
Greatest Height (m)		3.10			
Steel pipes driven beside piles with voids and rot which were rated 3 with repair condition rating 5.					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		6	6	
Scour		5	5	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : <b>NATURAL</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>		<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							
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	Repair North backwall sheeting					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.6/58.6</b>	Est. Repl. Yr	2021	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Mar-2014		Previous Inspection Date	05-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							