

Bridge Inspection									
Bridge File Number	01928 -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, 8.10.18.9.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:12 C1 22.634				Assistant Name	Clem Guenette			
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Jun-2012			
Legal Land Location	SE SEC 16 TWP 95 RGE 8 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:14:02, 57:14:18				Data Entry Date	06-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 / -30 deg. (LHF)				Dept. Reviewer Name	David Morrison			
AADT/Year	180 / 2011 (A)				Dept. Review Date	14-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			6	6	Superelevated, on curve at bottom of sag curve.				
Vertical Alignment			6	6					
Roadway Width (m)	10.100								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	28.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn 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 : <b>VS, 3 Spans, Lengths(m): 10.7-10.7-10.7, 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>	60				
<b>Now</b>	60.0				
Wearing Surface			X	X	
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			6	6	(Missing grout from 11 connector pockets, worn edges. Camber bumps. 2005/05/04) Covered with gravel. Visible dip @ pier 1.
Deck Rideability			5	5	
Deck Joints			N	N	Covered with gravel.
Bump (Y/N)		No			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Spalling at ends from butting up against other curb girders.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			6	6	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			6	6	
(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>				1	
<b>Now</b>				1	
Girders			3	3	S2G9 curb has diagonal crack with rust staining > 500mm long - photo. 2 girders, S3G4 & S1G1 & S2G6 have large chips.
Last Complete Inspection Date		12-Jun-2012			
Cracking (Y/N)		Yes			Connector pocket not holding(photo) 50mm gap.
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>27</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			Skew pressures are misaligning spans at joints. 90mm @ South pier and 65mm at North pier.
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 1:1)				A2 cap rotating with a small bend over each pile.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls			4	4		SW backwall kicking out 450mm. NE backwall pushing in approx 300mm.
Greatest Height (m)		2.30				
Wingwalls			4	4		NW wingwall planks not aligned, minor fill coming in.
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				5	5	
Paint/Coating				4	4	
Abutment Stability				4	4	
Scour/Erosion				5	5	
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)				Uneven weight distribution on cap at South pier, approx 100mm off center. Double 305 x 305.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 305)						
(Width(mm) : 610)						
(Total Number of Bearing Piles : 7:7)				The South pier is off center of deck joint by 100mm.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				7	7	
Greatest Height (m)		7.00				
Bracing/Struts/Sheathing				7	7	
Nose Plate				7	7	
Paint/Coating				4	2	
(Colour Description : )						
(Colour Code : )						
Pier Stability				5	5	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		6	6	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	4	Beaver dam diverting water South - will lead to S backwall scour.- photo
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : <b>RIP RAP; RIP RAP</b> )				
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>6</b>	<b>4</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	2012	Remove beaverdam u/s end.					
INSTALL STRUTS							
OTHER ACTION	2012	Grout connector pockets. Unable to verify.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.0/51.0</b>	Est. Repl. Yr	2021	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor lateral skw pressure. Monitor unequal weight distribution on pier. Monitor girder cracking.		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							