

Bridge Inspection										
Bridge File Number	77320 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1972/1972				Lot No.	2				
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch				
Located Over	LAFOND CREEK, 8.10.18.12.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	88:12 C1 0.007				Assistant Name	Eric Carcoux				
Water Body Cl./Year					Assistant Class	BR CLS A				
Navigabil. Cl./Year					Inspection Date	18-Jun-2012				
Legal Land Location	NW SEC 17 TWP 93 RGE 7 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:05:49, 57:04:22				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	9.1 /				Dept. Reviewer Name	David Morrison				
AADT/Year	180 / 2011 (A)				Dept. Review Date	11-Jan-2013				
Road Classification	RAU-209-110				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train		----> 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	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	Not required.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	LAFOND CREEK, NARROW BRIDGE Lafond Ck sign SE not legible.									
Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Water survey gauge sta.NE corner				Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Curve at south end of bridge. Sag curve (short sight distance).					
Vertical Alignment			6	6						
Roadway Width (m)	11.000				Hole between approach bridge @ SW corner.					
Approach Bump			6	3						
Guardrail (Y/N)	Yes				Minor dents throughout. Insufficient post spacing					
Guardrail			5	5						
Length (m)	29.000									
Current Standard (Y/N)	No									
Termination Type	TURNEDDOWN ENDS									
Drainage			3	3	Gravel windrows under approach guardrail not allowing road drainage to occur.-photo					
Approach Road General Rating			6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	30	0	0	0	
Now	30.0				
Wearing Surface			X	X	Stains on girder undersides indicate grout key leakage.
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			5	5	
Deck Rideability			6	6	
Deck Joints			4	3	Stains on piers indicate leakage is occurring over both piers. Rebar exposed. Grout in pier joint blockouts cracked. Water stop-fixed
Temperature (deg. C)		15			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			5	5	No drains
Drains Clogged (Y/N)					
Curbs/Median			5	3	175x300mm hole in curb face. span 2 W curb
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	Single layer minor dents throughout. 4 post anchor nuts missing all on W. rail.-08-Oct-2010 Mud covered 1 post anchor nut loose E rail.-08-Oct-2010
(Type : FLEX BEAM)					
Bridge Rail Posts			3	3	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			5	5	S1,G2,3,9 rust stains due to insuficent cover on stirrups. S1,G5, G6 honeycombing.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		5	5	S1, G11, & G1 not BRG flat on neoprene @ A1.
Temperature (deg. C)	15			S2G1 not Brg flat on neoprene @ P2.
(Expansion Type :)				Spall at A1 under G10 indicates possible high spot on abut. (photo).
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Rust stains from stirrups-not enough cover span 1 girder 2,3 & 9.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Delam abut 1, E. end 75 x 0.3m (photo).
(Type : PRECAST CONCRETE)				
Backwalls/Breastwalls		N	3	Gap between end of girder and TT backwall sheeting at SW corner allows approach fill migration.
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		5	5	
(Type : PRECAST CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Paint worn off at bottom 1.0m of piles in P1.
(Colour Description : RED)				
(Colour Code : 21310)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Old H-pile in middle of channel. Sandbar below center span causing drift to collect.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 4 missing nust and torque 1 nut.-08-Oct-2010					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Joints leak-rebar exposed.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace unlegible Lafond Creek sign					
OTHER ACTION	2012	Clean gravel windrows from under guardrails.					
OTHER ACTION	2012	Repair hole @ SW corner.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	53.9/54.2	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor grout keys. Monitor spall @ A1.		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				
Next Inspection Date	18-Mar-2014		Previous Inspection Date	08-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							