

Bridge Inspection							
Bridge File Number	77319 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1972/1972			Lot No.	2		
Bridge or Town Name	RED EARTH CR			Inspector Name	Brian Pientsch		
Located Over	TRIBUTARY TO LOON RIVER, 8.10.18.12.5, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	88:10 C1 40.472			Assistant Name	Clem Guenette		
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	12-Jun-2012		
Legal Land Location	NW SEC 27 TWP 91 RGE 8 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-115:12:08, 56:55:47			Data Entry Date	20-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 / 15 deg. (RHF)			Dept. Reviewer Name	David Morrison		
AADT/Year	370 / 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 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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	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	Pipeline approx. 28m East of road cl.
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	6	INTERSECTION 100m N of Bridge.
Vertical Alignment		8	8	
Roadway Width (m)	13.500			NO guardrail @ time of inspection, paving contract going on.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		3	X	
Length (m)	11.400			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		6	7	
Approach Road General Rating		5	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 3 Spans, Lengths(m): 10.1-10.1-10.1, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	40	0	0	0		
Now	27.0					
Wearing Surface			X	X	None at inspection, might be asphalt in future.	
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		No				
Deck Top			6	6		
Deck Rideability			7	7		
Deck Joints			N	N	(Missing 3 buffer angles. 05/05/15) Gravel covered.	
Bump (Y/N)		No				
Deck Drainage			6	7		
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Grader damage @ ends on all girders.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			5	5	Double flexbeam. Improper splice. Missing 14 post nuts.	
(Type : FLEX BEAM;GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts			3	3		
(Type : GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			6	6		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	11	0	0	2		
Now	11	0	0	3		
Girders			3	3	S1G3 has wide long. cracks within AZ.(Photo's) one leg. 9 of 33 girders have longitudinal cracking in at least 1 leg.-med cracks. Not all girders could be confirmed for sound concrete. S1G9 have wide long crack in AZ both legs. S3G9 have wide long crack in AZ lone leg. S3G10 has a spall 10mm above rebar-rebar exposed 1 leg.Wide long. both legs in AZ. S2G3-med longitude crack in AZ both legs. S3G6-wide long. crack in AZ both legs.	
Last Complete Inspection Date		12-Jun-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 33)						
Span Alignment Problems						
Vertical (Y/N)		No		Horizontal align from skew 30mm pier 1, 40mm pier 2 W.		
Horizontal (Y/N)		Yes				
Superstructure General Rating			3	3		

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 600)						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				7	7	
Greatest Height (m)		5.20				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				5	5	
(Colour Description : RED)						
(Colour Code : 21310)						
Pier Stability				6	6	
Scour				4	5	Scour 0.3m beside N. pier pile.
Debris (Y/N)		Yes				Minor debris caught on P1S2.
Substructure General Rating				5	5	
Structure Usage						
				Last	Now	Explanation of Condition
Channel						
(U/S Direction : W)						
(D/S Direction : E)						
Alignment				7	7	
Bank Stability				6	6	
HWM (m below Top of Curb)						HWM not visible.
Drift (Y/N)		Yes				Minor drift.
Slope Protection				4	4	Erosion 8m long x 1.5m deep on North headslope.
(Type : NONE)						
Guidebank/Spurs				X	X	
Adequacy of Opening				7	7	
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating				4	4	

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							
OTHER ACTION							
OTHER ACTION	2012	Install bridge rail post anchor nuts					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	43.9/43.9	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks. Monitor erosion on North abutment.		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							