

Bridge Inspection									
Bridge File Number	01718 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1961/1961				Lot No.	2			
Bridge or Town Name	CALMAR				Inspector Name	Todd Warshawski			
Located Over	CONJURING CREEK, 6.107, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	795:06 C1 23.267				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Mar-2012			
Legal Land Location	SW SEC 30 TWP 48 RGE 26 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-113:48:19, 53:10:04				Data Entry Date	18-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	09-Apr-2012			
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,660 / 2011 (A)				Dept. Review Date	04-May-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Spring loaded, Not standard location. 300-500mm too low.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West ditch.				Gas	25.5m North of bridge deck.			
Power	2 wires 15m East c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks	(Telus line hanging in drift under bridge.)								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve in road to south, adequate sight distances.				
Vertical Alignment			9	9					
Roadway Width (m)	9.000								
Approach Bump			8	8					
Guardrail (Y/N)	Yes				Farmers approach is 14m off North end of bridge, West side. This is the shortest piece of guardrail (7.7m) the other 3 lengths of guardrail are 23m. Split post at the NW. Incorrect lap @ SW. NE transition posts missing nuts. Insufficient post.				
Guardrail			3	3					
Length (m)	7.700								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)						
Special Features						
Special Feature		7	X			
(Type : LONGIT TIMB STRUT)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	25					
Now	0.0	0.0	0.0	0.0		
Wearing Surface		7	6	Wide cracks at abutments		
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top		N	X			
Deck Rideability		7	7			
Deck Joints		X	X			
Bump (Y/N)		No				
Deck Drainage		7	7			
Drains Clogged (Y/N)		No				
Curbs/Median		N	5	Structure damage at NW ans SE Hle in SW curb top. Curb face spalls		
(Curb Type : Standard)						
Scaling (Percent Area)		10				
Bridge Rail		7	4	Improper laps at several connections		
(Type : FLEX BEAM)						
Bridge Rail Posts		N	7			
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating		7	7			
(Type : PAINT)						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				1		
Now	0	0	0	0		
Girders		3	4	All girders discolored on legs. 14 drift pin punchouts on 10 girders. Curb units have narrow crack in AZ on one leg. Concrete spalls in/out of AZ on 1 leg. G1, G2, G9, G10		
Last Complete Inspection Date		15-Mar-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		5				
Lift or Connector Pocket Grouted (Y/N)						
(Number Of Girders : 10)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating		3	4			

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : 7:7)				150 x 300 on 300 x 300 on 300 x 300.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				7	6	
Greatest Height (m)		2.80				
Wingwalls				N	4	
(NE wingwalls top plank damaged & tin top damaged.)						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				7	N	
Scour/Erosion				6	N	
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				7	5	
13 struts at two levels. 7 on top & 6 below, 150mm x 190mm. 3 bowing slightly, bottom layer. Iron channel bolted to inner 6 girders						
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)	1.4			Debris on struts
Drift (Y/N)	Yes			
Slope Protection		N	N	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair guardrail, relap bridgerail					
SEAL CURBS	2012	Repair and 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	Replace NE tin top.and top plank.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	60.5/62.8	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder spalling/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	Jason Saly		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	15-Jun-2015		Previous Inspection Date	12-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							