

Bridge Inspection									
Bridge File Number	01719 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1961/1961				Lot No.	1			
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 24.926				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Mar-2012			
Legal Land Location	SW SEC 31 TWP 48 RGE 26 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-113:48:19, 53:10:58				Data Entry Date	19-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 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	Not at proper location. Spring loaded. 400mm low.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West ditch.				Gas				
Power	2 lines 14m East c/l.				Municipal				
Others	Fibre optic east R/W				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farmers approach at end of guardrail on SW & NE corner of bridge.				
Vertical Alignment			9	9					
Roadway Width (m)	9.000								
Approach Bump			8	8					
Guardrail (Y/N)	Yes				Incorrect lap @ exiting ends. Insufficient posts.				
Guardrail			4	4	Broken posts at NW and SW				
Length (m)	22.800								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			8	8					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 2 Spans, Lengths(m): 6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	25				
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	5	(Pavement goes right to curb. Wide cracks and potholes at joints
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	X	
Deck Rideability			8	6	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			N	4	Minor surface spalls/strike damage. Lift pockets not grouted.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Missing 8 splice bolts. Improper splice/laps in both rails.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	1	
Girders			4	3	S1-G2 spalls in AZ, 2 legs with sound concrete. S1-G3, 4, 5 - narrow shear cracks Wide longitudinal cracks on 50% of girders.
Last Complete Inspection Date		15-Mar-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 20)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	3	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Appears to have been recently cored. No ratings noted on caps.	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			7	7		
(Type : TREATED TIMBER)						
(Depth(mm) : 300;350)						
(Width(mm) : 350;300)						
Backwalls/Breastwalls						
			7	6	Vertical sheeting OK.	
Greatest Height (m)		2.70				
Wingwalls						
			4	4	NE wingwall pile tin top missing & pile is rotten, though functional.	
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	AB1 - P3 split and clamped at top	
Last						
Now	0	0	0	0		
Piles			8	5		
Paint/Coating						
			X	X		
Abutment Stability						
			7	6		
Scour/Erosion						
			6	6		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Vertical split on W end, does not appear to extend deep into cap.	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			5	5		
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count))Steel casing around West pile @ P1.) - Dec/08	
Last						
Now	0	0	0	0		
Pier Shaft/Piles			5	5		
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing						
			8	7	150 x 200 struts 75 x 250 pier bracing	
Nose Plate						
			X	X		
Paint/Coating						
			X	X		
(Colour Description :)						
(Colour Code :)						
Pier Stability						
			7	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		6	6	
Debris (Y/N)	Yes			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				D/S end channel makes a sharp turn to North.
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		N	N	Snow covered.
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	8 splice bolts, relap. Replace damaged posts					
SEAL CURBS	2012	Grout curb lift pockets					
PATCH DECK	2012	Seal cracks and potholes					
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							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	57.5/55.7	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	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	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							