

Bridge Inspection									
Bridge File Number	01030 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1974/1974				Lot No.	2			
Bridge or Town Name	CAMROSE				Inspector Name	Dave Lam			
Located Over	CAMROSE CREEK, 5.44, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	833:02 C1 1.346				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-Jul-2011			
Legal Land Location	SW SEC 14 TWP 47 RGE 20 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:49:50, 53:03:07				Data Entry Date	15-Aug-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA16				Review Date	27-Jul-2011			
Clear Roadway/Skew	10.1 / -30 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,240 / 2010 (A)				Dept. Review Date	29-Aug-2011			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Installed on top of first posts of bridgerail. Not to standard, at varying heights.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3W 20m east r/w.				Municipal				
Others					Problem (Y/N)		No		
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Field/farm entrances N & S in both directions. Grade rising to S.				
Vertical Alignment			7	7					
Roadway Width (m)	9.100				Road currently under construction (being repaved). Paved continuous over bridge.				
Approach Bump			7	9					
Guardrail (Y/N)	Yes				SW corner 135 deg. post dislodged from rail (photo). Supposed to be upgraded under current paving contract; not yet done.				
Guardrail			7	4	Insufficient posts & length.				
Length (m)	11.400								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7	E side recently tacked in preparation for paving, but rain is ponding at SE approach & tack is running into creek (photo).				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 1 Spans, Lengths(m): 9.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		6	9	W half paved with 10mm leveling lift. E half old ACP removed but not yet paved. Paving contractor advised that AT inspector selectively chose failed connection to be welded. (05Sep2010).	
(Material Type : ACP)					
(Thickness(mm) : 60)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	4		
Deck Rideability		7	8		
Deck Joints		N	N	Paved over.	
Bump (Y/N)	No				
Deck Drainage		5	5	No drain pipes.	
Drains Clogged (Y/N)					
Curbs/Median		6	6	Minor concrete chips @ SW & NW.	
(Curb Type : Standard)					
Scaling (Percent Area)	0				
Bridge Rail		7	7	Single layer, not to std; not sure if bridgerail will be upgraded in current paving contract.	
(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	0	0	0	0	
Now	0	0	0	0	
Girders		5	5	Typical cracking at ends. Edge spalls & lift pockets not grouted (photo), E half visible. Paving contractor advised that no instruction was provided to grout lift pockets or patch spalled edges - informed AT.	
Last Complete Inspection Date	11-Jul-2011				
Cracking (Y/N)	Yes				
Spalling (Percent Area)	0				
Lift or Connector Pocket Grouted (Y/N)	No				
(Number Of Girders : 9)					
Span Alignment Problems					
Vertical (Y/N)		No		Bridge twisted about 150 mm out of line due to skew.	
Horizontal (Y/N)		Yes			
Superstructure General Rating		5	5		

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)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				6	5
(Type : TREATED TIMBER)					
(Depth(mm) : 360)					
(Width(mm) : 300)					
Backwalls/Breastwalls				6	6
Greatest Height (m)		2.80			
Wingwalls				6	4
NE & SE show signs of rot but timber still sounds solid.					
(Total Number of Bearing Piles : 10:10)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles				6	5
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				7	7
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				X	X
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)	No			
Substructure General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Bushes grown on W side of bridge.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type : GRAVEL; GRAVEL)		7	N	Under water.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade if not included in current paving contract.					
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	2011	Attach guardrail to post at SW corner, if not yet done.					
OTHER ACTION	2011	Replace top planks of SW & SE wingwalls.					
OTHER ACTION	2011	Grout girder lift pockets & spalled edges.					
OTHER ACTION	2011	Reinstall HMs to meet std if not upgraded under current paving contract.					
OTHER ACTION	2011	Upgrade approach guardrail to meet std if not included under current paving contract.					
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	62.7/60.6	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks.		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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	11-Oct-2014		Previous Inspection Date	05-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							