

Bridge Inspection									
Bridge File Number	02335 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1973/1973				Lot No.	2			
Bridge or Town Name	BRUCE				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO VERMILION RIVER, 6.5.44, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	857:02 C1 9.460				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Jul-2011			
Legal Land Location	NW SEC 30 TWP 49 RGE 14 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:03:03, 53:15:32				Data Entry Date	09-Aug-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA14				Review Date	19-Jul-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	320 / 2010 (A)				Dept. Review Date	29-Aug-2011			
Road Classification	RCU-209-110				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	Not to std, mounted on 1st guardrail post off bridge on 3rd post.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks	No utilities detected.								

Approach Road																							
			Last	Now	Explanation of Condition																		
Horizontal Alignment			7	7	Bridge not centered on road. E side is .6 short. In gradual sag curve with no passing. Limited sight distance, both directions.																		
Vertical Alignment			6	6																			
Roadway Width (m)		9.600	Insufficient length; not thriebeam.																				
Approach Bump										7	7												
Guardrail (Y/N)		Yes																					
Guardrail																	7	7					
Length (m)		19.300																					
Current Standard (Y/N)		No																					
Termination Type		TURN DOWN																					
Drainage			7	7																			
Approach Road General Rating			6	6																			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VH, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	SW is 190,NW-125. SE-225 and NE-125mm. Longit. cracks between curb and 1st int on E. side. Total 4 lines.
(Material Type : ACP)					
(Thickness(mm) : 150)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Curb is ineffective at 75 mm height.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	5	Single layer with splice between posts-not ideal, not to std.
(Type : FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0			1	Curb girder spalls at 1 rating.
Now	0	0	0	0	
Girders					
Last Complete Inspection Date		14-Jul-2011		3	4
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)					Not visible
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			Appears S. end is set lower and gradeline is compensated by more ACP-photo.
Horizontal (Y/N)		No			
Superstructure General Rating			5	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)				New caps at both abut, E half only. Cap extends 2.0m past end of backwall-E half.		
(Extended Backwall Piles Spacing(mm) :)						
(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			7			7
(Type : TREATED TIMBER)						
(Depth(mm) : 290)						
(Width(mm) : 290)						
Backwalls/Breastwalls			7	7		
Greatest Height (m)		3.00				
Wingwalls			7	7		
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles			4	5		
Paint/Coating			X	X		
Abutment Stability			6	6		
Scour/Erosion			5	5		
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)	Yes			3 old piles under bridge.
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Control structure 100 m U/S (West).
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.7			
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
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							
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	2015	Remove deck ACP & reset/raise bridge to approach ACP gradeline at next major rehab.					
OTHER ACTION	2012	Trim 3 old piles under bridge.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	63.9/64.1	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	14-Oct-2014		Previous Inspection Date	06-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							