

Bridge Inspection											
Bridge File Number	71593 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1968/1968				Lot No.	2					
Bridge or Town Name	BARRHEAD				Inspector Name	Melanie Johnson					
Located Over	TRIBUTARY TO PADDLE RIVER, 8.11.84.30.4, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	18:08 C1 30.954				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	24-Aug-2011					
Legal Land Location	SW SEC 29 TWP 59 RGE 3 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:24:54, 54:07:23				Data Entry Date	19-Sep-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA10				Review Date	07-Sep-2011					
Clear Roadway/Skew	10.4 / 0 deg.				Dept. Reviewer Name	Brent Herrick					
AADT/Year	1,820 / 2010 (A)				Dept. Review Date	28-Sep-2011					
Road Classification	RAU-210-110				Follow-Up By						
Detour Length (km)	1										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span	

Posting Information									
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	On poles North r/w.				Gas	Approx 35 m SE.			
Power	3 lines North r/w. Multiple lines crossing East.				Municipal	Pumping station NE.			
Others	Street lighting South r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Intersections 40m East. 50 kph. Slight sag curve.				
Vertical Alignment			7	7					
Roadway Width (m)		9.500							
Approach Bump			6	6					
Guardrail (Y/N)		Yes							
Guardrail			6	6					
Length (m)		17.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			6	6					
Approach Road General Rating			6	6					

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : SC, 1 Spans, Lengths(m): 10, 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						
Wearing Surface				4	5	
(Material Type : CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)	Yes					
Deck Top				N	N	
Deck Rideability				7	7	
Deck Joints				N	N	Buffer angles. Mostly covered.
Bump (Y/N)	Yes					
Deck Drainage				5	5	No deck drains.
Drains Clogged (Y/N)						
Curbs/Median				6	6	Chipped at SE. Hairline narrow map cracks on exterior side (typ).
(Curb Type : Standard)						
Scaling (Percent Area)	0					
Bridge Rail				4	4	Double layer. Incorrectly spliced. Missing 4 splice bolts per connection (typ).
(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				7	7	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Girders				7	7	Leaking between girders, rust staining from connector pockets. Active leakage between G1/G2.
Last Complete Inspection Date	24-Aug-2011					
Cracking (Y/N)	No					
Spalling (Percent Area)	0					
Lift or Connector Pocket Grouted (Y/N)	Yes					
(Number Of Girders : 10)						
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating				7	7	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 5:5)				Double cap (305 x 350mm) join @ c/l over 1 subcap.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 610)						
(Width(mm) : 350)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		3.40				
Wingwalls				4	3	
Wing pile & planking charred SW, minor. NE & nw wingwall leaning & losing fill under sidewalk - photo.						
(Total Number of Bearing Piles : 10:10)				Missing cleat @ NE wingwall.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				5	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				5	5	
10" x 10" H pile whaler along abutments with 4 - 10" x 10" HP struts. Steel wailers and struts have heavy scaling rust. Water ponding within steel channel.						
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Old piles in streambed.
Substructure General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Gentle bend U/S - north.
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : NONE; NONE)				
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	2011	Replace missing bolts.					
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	Repair NE & NW wings.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/66.7	Sufficiency Rating (Last/Now) (%)	69.9/68.1	Est. Repl. Yr	2043	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	24-May-2013		Previous Inspection Date	11-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							