

Bridge Inspection									
Bridge File Number	70566 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1959/1959				Lot No.	2			
Bridge or Town Name	BARRHEAD				Inspector Name	Arnold Assenheimer			
Located Over	PADDLE RIVER, 8.11.84.30, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	33:06 C1 13.709				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	19-Aug-2011			
Legal Land Location	SW SEC 21 TWP 59 RGE 3 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:24:07, 54:06:46				Data Entry Date	27-Sep-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA10				Review Date	26-Sep-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,770 / 2010 (A)				Dept. Review Date	28-Sep-2011			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	10								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49					
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	At North end only, do not meet standard height & location.								
Other Sign Types	Information, Speed 50 km/hr, River ID @ NW & SE corners. Speed 70km/hr								

Utilities (Located at)									
Utility Attachments									
Telephone	West ditch, OH East on power poles.				Gas				
Power	2 wires East r/w; 2 wires crossing South, 2 crossing North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Resident approaches South end of bridge, both sides.				
Vertical Alignment			8	8					
Roadway Width (m)			11.200		Length does not meet standard but adequate for 50 kph posted town speed limit. Creased @ NW - ok				
Approach Bump			8	8					
Guardrail (Y/N)			Yes						
Guardrail			7	5					
Length (m)			25.000						
Current Standard (Y/N)			No						
Termination Type			Turned Down						
Drainage			7	4	Dirt buildup impeding drainage under G.R. -still drains away from bridge.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 2 Spans, Lengths(m): 25.9-25.9, 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			7	7	Silica fume fibre reinforced overlay. Covered with chipseal. 1% peeling
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	
Temperature (deg. C)		20			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
70		Abutment 1-exp			
75		Pier 1 - fixed			
85		Abutment 2 - exp			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			N	7	Medium vert. cracking along outside every 2-3m.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	3 bolts w rail not fully threaded. Minor scratches.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	3	
Girders			4	3	G3,G4, G5 vertical cracking at North abutment-50-100mm from ends. Chipped in spots. G5 crack exposing rebar - shallow cover.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 14)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 2 Spans, Lengths(m): 25.9-25.9, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		6	6	
Temperature (deg. C)	20			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	5	Isolated construction spall between G6/G7 span 1. Patches/repairs visible.
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		5	5	Widw horiz. crack S. abut.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	4	Small erosion gulleys forming - S. headslope
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Rusting on nose plate.
(Colour Description :)				
Grey.				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)				(Underside of girders. 05/07/29)
Drift (Y/N)	No			
Slope Protection		7	4	Rock lower 1/2 of headslopes.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	(Does not provide freeboard for drift. 05/07/29)
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Re-install N. end to correct height and add @ S. end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	44.8/41.1	Est. Repl. Yr	2024	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	19-May-2013		Previous Inspection Date	17-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							