

Bridge Inspection									
Bridge File Number	75397 -1 Bridge					Form Type	SG		
Year Built/Year Supstr	1968/1968					Lot No.	2		
Bridge or Town Name	BROCKET					Inspector Name	Garry Roberts		
Located Over	3:06 C1 6.561					Inspector Class	BR CLS A		
Located On	CPR					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	27-Nov-2011		
Legal Land Location	NE SEC 4 TWP 7 RGE 29 W4M					Data Entry By	Erin Roberts		
Longitude, Latitude	-113:51:56, 49:32:14					Data Entry Date	05-Jan-2012		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey		
Contract Main. Area	CMA26					Review Date	07-Dec-2011		
Clear Roadway/Skew	14.6 / -50 deg. (LHF)					Dept. Reviewer Name	Tim Davies		
AADT/Year						Dept. Review Date	10-Jan-2012		
Road Classification	RAU-213.4-120					Follow-Up By			
Detour Length (km)	10								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:						----> Primary Span			

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 3 C1 5.3m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	EB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		Vertical clearance dimensions confirmed May 19, 2010										
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)		No										
Remarks		Not required										
Other Sign Types		CURVE SIGNS										

Utilities (Located at)									
Utility Attachments									
Telephone	South R/W				Gas				
Power					Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	On an "S" curve under railroad	
Vertical Alignment		6	6	Alignment, width and guardrail details for hwy 3.	
Roadway Width (m)		14.600		Width of bridge at railway is 3.7 m.	
Approach Bump		7	7		
Guardrail (Y/N)		Yes			
Guardrail		6	6		
Length (m)		50.000			
Current Standard (Y/N)		No		Not thriebeam.	
Termination Type		TURNED DOWN			
Drainage		3	3	10x5x1m deep slump at SE. Culvert appears plugged	
Approach Road General Rating		6	6		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 18.6-20.4-18.6, A-Ident Number: A0504-01)					
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			X	X	Railroad.
(Material Type :)					
(Thickness(mm) :)					
Deck Top			N	N	
Deck Rideability			5	5	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			X	X	
(Curb Type : Standard)					
Scaling (Percent Area)					
Bridge Rail			5	5	Minor bend at Southwest.
(Type : BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : PAINT)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	Minor high load scrapes @ flanges predominately in EBL.
Flange			6	5	
Web			7	7	High load damage to East exterior girder over WBL recently heat straightened.
Stiffeners			7	7	
Splice			7	7	Vertical stiffners
Weld			7	7	
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 18.6-20.4-18.6, A-Ident Number: A0504-01)				
Paint Condition		5	5	ESTIMATE 5m2 HIGH SCRAPES LOAD DAMAGE & OTHER AREAS. Majority of paint and primer is good
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Touchup Required (Y/N)	Yes			
Bearings		5	5	SW bearing reset Bolts drilled into cap to retain bearing plates. Front bolts bent 20mm forward Dome plate 30mm ahead of masonry plate. Exp. at abutments
Temperature (deg. C)	5			
(Expansion Type : DISC & DOME BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	LEAKAGE above EASTBOUND LANE EAST SIDE @ splice plates-minor also WB lane @ West
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		7	6	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Minor spall at North pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Rating railroad
Traffic Safety Features		6	6	Shields placed along both rails to keep ballast from falling onto highway
Type	SHEILDS			
Slope Protection		6	6	Cracked & sliding 50mm @ North
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2012	Heat repaired area over WBL					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair slump at SE- approx. 10x5x1m deep					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	79.6/79.6	Est. Repl. Yr	2028	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Aug-2013		Previous Inspection Date	19-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							