

Bridge Inspection											
Bridge File Number	75021 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1960/1960					Lot No.	1				
Bridge or Town Name	BROOKS					Inspector Name	Jason Rusu				
Located Over	CPR					Inspector Class	BR CLS A				
Located On	36:06 C1 38.615					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	10-Dec-2011				
Legal Land Location	NW SEC 33 TWP 18 RGE 15 W4M					Data Entry By	Erin Roberts				
Longitude, Latitude	-112:00:41, 50:34:05					Data Entry Date	18-Jan-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23					Review Date	26-Dec-2011				
Clear Roadway/Skew	11 /					Dept. Reviewer Name	Tim Davies				
AADT/Year	2,260 / 2010 (A)					Dept. Review Date	23-Jan-2012				
Road Classification	RAU-211.8-110					Follow-Up By					
Detour Length (km)	6										
Allowable Load (t):	Single	CS1 38 GIRDER			Semi	CS2 49		Train	CS3 67 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)					No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	NOT REQUIRED											
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	Post is detached at SW										
Other Sign Types											

Utilities (Located at)											
Utility Attachments											
Telephone	East and West ROW					Gas					
Power	West ROW & crossing road					Municipal					
Others	100m N					Problem (Y/N)	No				
Remarks	2W 25m NE Fibre optics @ W RW										

Approach Road											
			Last	Now	Explanation of Condition						
Horizontal Alignment			9	9	Limited site to hill @ North. ACP patches @ both ends. Transverse cracks @ approaches Cracks sealed. Snow covered road and deck. (25mm settlement & Heave of ACP @ NW approach- is patched in rut.) 22- June- 2010						
Vertical Alignment			5	5							
Roadway Width (m)		10.700			Incorrect lap at S.E  Not Thriebeam						
Approach Bump			5	5							
Guardrail (Y/N)		Yes									
Guardrail			4	4							
Length (m)		50.000									
Current Standard (Y/N)		No									
Termination Type		TURNED DOWN									

Approach Road					
			Last	Now	Explanation of Condition
Drainage			3	3	Both SW and SE corners have holes at curb in A.C.P. Holes at trough drain at SE also.
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : <b>PO, 3 Spans, Lengths(m): 19.8-19.8-19.8, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature				X	
(Type : )					
Special Feature				X	
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	30.0	0.0	0.0	0.0	
Wearing Surface			6	N	(Hairline seam crack along c.l. Longitudinal med cracking along shoulder at white line esp by piers & abuts.) Snow covered.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	3 - 4mm height difference @ South pier South pier gland split. All other joints dirt filled Partially saw North pier gland - has cracks. Torn at P1 in SBL
Temperature (deg. C)		-6			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
50		North			
35		N. pier			
40		S. pier			
45		South			
Deck Drainage			5	5	Snow and gravel.
Drains Clogged (Y/N)		Yes			
Curbs/Median			5	N	(Exposed rebar at isolated areas. Hairline vertical cracks, minor spalls. Hairline vertical cracks outer edge.) Snow covered
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 19.8-19.8-19.8, A-Ident Number: )				
Girders		5	5	Rust staining South span-West gird bottom and at center span @ East girder
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		7	7	Superficial corrosion from leakage at cracked seal at West half South deck joint.
Bearings		5	4	Corrosion @ all exterior bearings
Temperature (deg. C)	-5			At A1 and A2 Neoprene at P1 and P2. Touch up required. Bearings at piers don't appear to be functioning.
(Expansion Type : <b>ROLLER BEARING;REINFORCED PAD BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		6	5	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	Yes			3-4 mm STEP AT SOUTH PIER JOINT. minor
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	4	0.5m wide x 0.5m deep x 7m long erosion from deck drainage at SE
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>3:3</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				
Bank Stability		6	6	
Drainage		3	5	Wrong location for previous comment.
<b>Grade Separation General Rating</b>		<b>3</b>	<b>5</b>	

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	2012	New glands @ piers					
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS	2012	Level 2 inspection					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Patch SE and SW A.C.P and SE drain trough - 0.1m3 cold mix					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.5/58.8</b>	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Inspector requests a level 2 inspection of pier bearings.		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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	10-Sep-2013		Previous Inspection Date	22-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							