

Bridge Inspection													
Bridge File Number	77846 -1 Bridge					Form Type	PSR						
Year Built/Year Supstr	1979/1979					Lot No.	1						
Bridge or Town Name	BROOKS					Inspector Name	Tom Carey						
Located Over	1:18 C1-1OR 8.401;1:18 L1 8.416;1:18 R1 8.395					Inspector Class	BR CLS A						
Located On	873:04 R1 0.460;873:04 L1 0.462					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	16-Feb-2012						
Legal Land Location	SW SEC 9 TWP 19 RGE 14 W4M					Data Entry By	Lauren Korte						
Longitude, Latitude	-111:53:50, 50:35:27					Data Entry Date	22-Mar-2012						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts						
Contract Main. Area	CMA23					Review Date	26-Feb-2012						
Clear Roadway/Skew	15.5 / -40 deg. (LHF)					Dept. Reviewer Name	Tim Davies						
AADT/Year	4,760 / 2011 (A)					Dept. Review Date	29-Mar-2012						
Road Classification	RCU-208-110					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:	MS23												----> Primary Span
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 1 L1 5.6m, 1 R1 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)	5.6	In Advance (Y/N)	Yes	
Remarks	BROOKS ACCESS 5.6M POSTED ON W SIDE OVER COLLECTOR RD. IN ADVANC												
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													
Other Sign Types	Merge Route.												
Utilities (Located at)													
Utility Attachments													
Telephone	North R/W.					Gas							
Power						Municipal							
Others	Lights.					Problem (Y/N)	No						
Remarks													
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				6	6	Ramps both ends.							
Vertical Alignment				6	6	Grade separation - crest curve.							
Roadway Width (m)	20.800					Spalls @ South abut joint paving @ lips.							
Approach Bump				6	4								
Guardrail (Y/N)	Yes					Wrong lap at SW and NE.							
Guardrail				4	4	Not thriebeam.							
Length (m)	50.000												
Current Standard (Y/N)	No												
Termination Type	TURNED DOWN												
Drainage				7	7								
Approach Road General Rating				6	6								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FM, 4 Spans, Lengths(m): 12-36-38-36, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	10% chipcoat worn through. Key crack @ S/B @ all spans.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Joints gravel and ice filled. (North abut deck joint @ inside N/B lane - one broken finger weld) (South abut deck joint approx. 20 cracked finger welds @ N/B & S/B lanes) Paving lip broken @ South Abut deck joint @ N/B lane 5m and S/B lane 2m.
Temperature (deg. C)		-2			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80		North			
100		South			
Deck Drainage			6	4	Leaking at exteriors between deck and top of girder. Suspect back wall drain clogged. Stained @ South Abut.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Spall at North and center median. Tops gravel covered.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	A few minor grout pad spalls. About 20 bolts without enough projection into nuts.
(Type : BRIDGE TUBE)					
Bridge Rail Posts		6		4	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6		6	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now	0	0	0	1	
Girders			3	3	Diagonal medium cracking @ chamfer & web. From abut cap to first diaphragm. Minor highload damage @ W gird @ S-3- shallow spalls. Sp 2- G1 has 4 separate high load damage with worst 1m x 1m over passing lane, appears loose concrete removed.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 40)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 4 Spans, Lengths(m): 12-36-38-36, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	
Bearings		5	5	A few grout pads with medium width cracks Abut brg A/B are bent missing 12 nuts @ North abut.
Temperature (deg. C)	-2			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				Pins bent forward @ both abuts.
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Corrosion stains @ some exteriors.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		7	4	Tar coating. 50 m coating failed @ NE and SW wings.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		4	4	Wrong lap at NW, SE.
Type	GUARDRAIL			
Slope Protection		6	6	Minor heave at North.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		4	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	2012	Chipcoat.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Patch South abut joint paving lips - 7 linial meters. Weld Finger Plates @ Abut deck joints.					
RESET/ PAINT BEARINGS							
WASHING	2012	South backwall trough.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair high load damage Sp2- G1, High priority. Appears one strand will require splicing and one stirrup splice repair.					
OTHER ACTION	2012	Median spall 0.3 x 0.3 @ North.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	43.9/43.8	Est. Repl. Yr	2030	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	16-Nov-2013		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							