

Bridge Inspection											
Bridge File Number	79106 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	2005/2005					Lot No.	2				
Bridge or Town Name	BROOKS					Inspector Name	Tom Carey				
Located Over	1:18 R1 11.623;1:18 L1 11.644					Inspector Class	BR CLS A				
Located On	542:05 R1 4.730;542:05 L1 4.729					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	15-Feb-2012				
Legal Land Location	NE SEC 33 TWP 18 RGE 14 W4M					Data Entry By	Lauren Korte				
Longitude, Latitude	-111:51:46, 50:34:18					Data Entry Date	25-Mar-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23					Review Date	26-Feb-2012				
Clear Roadway/Skew	20.2 /					Dept. Reviewer Name	Tim Davies				
AADT/Year						Dept. Review Date	29-Mar-2012				
Road Classification						Follow-Up By					
Detour Length (km)											
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:											----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 1 L1 5.5m, 1 R1 5.5m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	WB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	EB	On Bridge (m)	5.5	In Advance (Y/N)	Yes
Remarks		Measured W/B is 5.581 E/B is 5.669. Posting is accurate.										
Required Load Posting (t)			Single			Semi			Truck Train			
Posted Loading (t)			Single			Semi			Truck Train			
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	EB	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												
Other Sign Types												

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power	Under deck light.					Municipal						
Others	Light standards.					Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Cassils road overpass.
Vertical Alignment		6	6	
Roadway Width (m)	23.000			Pot hole at South approach ACP at S/B lane.
Approach Bump		8	4	
Guardrail (Y/N)	Yes			Minor damage at SW.
Guardrail		8	6	
Length (m)	45.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		8	4	Minor erosion at SW wingwall. NE and rough drain is eroding the sideslope- has some bagged concrete in it.
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : NU, 2 Spans, Lengths(m): 44-44, 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			7	6	Minor depressions at Abut 2 SBL.	
(Material Type : ACP)						
(Thickness(mm) : 80)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			8	8		
Temperature (deg. C)		-5				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
90		Abut 1				
80		Abut 2				
Deck Drainage			8	8		
Drains Clogged (Y/N)		No				
Curbs/Median			8	8		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8	A/B nuts with less then full thread engaged and 1 loose nut at Sp 1 6th from SE.	
(Type : GALVANIZED STEEL TUBE BEAM TYPE 2;GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Typ. NU web and chamfer cracks. Marks indicate previous level 2.						
Girders			4	4	Minor high load damage 150 x 100 at Sp 2 G6 with no visible strand or rebar. Typical of SP1 G1. Previous high load patch and marks at Sp 2 G1. Cracks seen were hairline width.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 6)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 44-44, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED PAD BEARING;POT BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	Memorial plaque at SW.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		9	9	
Scour/Erosion		8	4	Minor erosion at SW wingwall. NE trough drain is causing erosion at side slope.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		4	4	Wrong lap at NW and SE.
Type	Guardrail			
Slope Protection		8	8	
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten loose A/B nut @ 6th from SE.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch pothole at South approach at S/B lane.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion at NE trough drain- 2m3 pit run and re install bagged concrete.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Patch high load damage 150 x 100 Sp2 G6 at S1 G1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	59.1/59.1	Est. Repl. Yr	2069	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	15-Nov-2013		Previous Inspection Date	20-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							