

Bridge Inspection													
Bridge File Number	81588 W-2 Bridge					Form Type	SG						
Year Built/Year Supstr	1993/1993					Lot No.	2						
Bridge or Town Name	FORT MACLEOD					Inspector Name	Jason Rusu						
Located Over	2:08 L1 0.018;2:08 R1 0.016					Inspector Class	BR CLS A						
Located On	3:06 L1 43.827					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	09-Oct-2011						
Legal Land Location	NE SEC 3 TWP 9 RGE 26 W4M					Data Entry By	Alyssa Boynton						
Longitude, Latitude	-113:26:36, 49:42:42					Data Entry Date	17-Nov-2011						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts						
Contract Main. Area	CMA26					Review Date	09-Nov-2011						
Clear Roadway/Skew	12.4 /					Dept. Reviewer Name	Tim Davies						
AADT/Year	4,420 / 2010 (A)					Dept. Review Date	21-Nov-2011						
Road Classification	RFD-412.4-130					Follow-Up By							
Detour Length (km)	1												
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62			----> On Critical Spans ---->Critical Member
Design Loading:	CS750											----> Primary Span	
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 2 L1 6.0m, 2 R1 6.6m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	
Remarks	Not req.												
Required Load Posting (t)	Single			Semi			Truck Train						
Posted Loading (t)	Single			Semi			Truck Train						
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No					
Remarks													
Hazard Marker At Bridge (Y/N)	No												
Remarks	Orange Warning sign - Freeway ends @ two locations ahead of bridge												
Other Sign Types	INFORMATION, 60 KM/HR UNDER BRIDGE												
Utilities (Located at)													
Utility Attachments													
Telephone						Gas							
Power	Lighting on top and below.					Municipal							
Others						Problem (Y/N)	No						
Remarks													
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				8	8								
Vertical Alignment				8	8								
Roadway Width (m)	12.400					12m long guardrail with flare ends @ W not thriebeam							
Approach Bump				7	7								
Guardrail (Y/N)	Yes												
Guardrail				7	7								
Length (m)	68.000												
Current Standard (Y/N)	No												
Termination Type	TURNDOWN												
Drainage				5	5	Minor erosion at NE wingwalll.							
Approach Road General Rating				8	8								

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 2 Spans, Lengths(m): 34-34, A-Ident Number: A1222-01)						
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			6	4	Long cracks -sealed. Void at SW paving lip (250x400x50)	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			3	3	Tears in both abuts. seals. East abut seal turn along entire length.	
Temperature (deg. C)		10				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
100		E. abut				
89		W. abut				
Deck Drainage			4	4	Leaks @ abut joints. Deck drains @ abuts. 50 mm DIA DRAINS	
Drains Clogged (Y/N)		No				
Curbs/Median			8	8	Vertical cracks.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8		
(Type : BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	7		
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 34-34, A-Ident Number: A1222-01)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Exp. at abuts.
Temperature (deg. C)	10			
(Expansion Type : DISC BEARING;REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Leaching and minor cracks at deck exterior.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	Active leakage at both backwalls from joints. Pigmented at wingwalls.
Piles		N	X	
Paint/Coating		7	7	
Abutment Stability		8	8	
Scour/Erosion		6	8	
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		8	8	Galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Yellow curve signs. Chevrons. Alignment is adequate at posted speed of 60 km/hr only.
Traffic Safety Features		8	8	
Type	NJ BARRIERS			
Slope Protection		6	6	Concrete cast @ slope protection @ top. Pulled away 40mm from additional cast concrete.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		5	5	

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	2012	Repair void at SW pving lip					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace both abut joint.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Fill and seal gaps at top of both slope protection.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Clean backwall staining after seal replacement.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	70.8/66.2	Est. Repl. Yr	2064	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	09-Jul-2013		Previous Inspection Date	22-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							