

Bridge Inspection										
Bridge File Number	00756 S-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1993/1993				Lot No.	2				
Bridge or Town Name	FORT MACLEOD				Inspector Name	Garry Roberts				
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	2:08 L1 1.124				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	26-Sep-2011				
Legal Land Location	SW SEC 10 TWP 9 RGE 26 W4M				Data Entry By	Erin Roberts				
Longitude, Latitude	-113:27:03, 49:43:14				Data Entry Date	11-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA26				Review Date	07-Oct-2011				
Clear Roadway/Skew	12.5 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	5,540 / 2010 (A)				Dept. Review Date	17-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 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	Not req.									
Hazard Marker At Bridge (Y/N)	No									
Remarks										
Other Sign Types	Extreme Caution, must exit, Obey Speed Limit, Freeway ends.									
Utilities (Located at)										
Utility Attachments										
Telephone	WEST R/W				Gas					
Power					Municipal					
Others					Problem (Y/N)		No			
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	Curve to North					
Vertical Alignment			8	8						
Roadway Width (m)	12.500				Slight settlement @ North and trans crack					
Approach Bump			5	5	North approach appears to have been filled with concrete under slabs					
Guardrail (Y/N)	Yes				11m long with flare ends @ South.					
Guardrail			4	4	Wrong lap at NE, SE and SW.					
Length (m)	99.000				Transition bolt not installed at NW.					
Current Standard (Y/N)	No				Not thriebeam					
Termination Type	TURNED DOWN									
Drainage			6	6						
Approach Road General Rating			7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBC, 4 Spans, Lengths(m): 31-36-36-31, 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	7	Chipcoat
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	3	At least 12 broken welds at North abut finger joint
Temperature (deg. C)		20			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC);FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
60		S. Abut			
165		N. Abut- finger joint			
Deck Drainage			5	6	
Drains Clogged (Y/N)		Yes			
Curbs/Median			8	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	1 bent A/B at Sp.1- SW
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		7	7		
(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	
Girders			5	5	Cracks at CIP section over piers. HAIRLINE DIAGONAL CRACKS IN WIDE WEB SECTION OF GIRDERS SEEN @ ABUTS. 11 girder lines- continuous
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 44)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBC, 4 Spans, Lengths(m): 31-36-36-31, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		5	5	PINS BENT TOWARDS STREAM 50mm @ North.
Temperature (deg. C)	20			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				North Bearing plates only bear 200mm on 250mm wide neoprene pads - not bearing 50mm - still functional
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
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		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	7	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		9	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		8	7	Galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	8	
Scour		N	7	Ice
Debris (Y/N)	Yes			Drift at P1 and P2
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Flow strikes north bank and is going behind NW guidebank.
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		4	4	Cut Near to spur @ NW Vertical banks u/s.
HWM (m below Top of Curb)	3.0			Medium and large drift at piers & @ NW bank & Small drift HWM @ banks.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : CONCRETE; RIP RAP)				
Guidebank/Spurs		8	8	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Weld fingers at north joint (x12) - check all others					
RESET/ PAINT BEARINGS	2012	Reset North abut bearings					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2012	50m3 Cl.3 at NW					
REMOVE DRIFT ACCUMULATION	2011						
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	64.7/64.6	Est. Repl. Yr	2059	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	26-Jun-2013		Previous Inspection Date	22-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							