

Bridge Inspection							
Bridge File Number	00756 N-1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1970/1970			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 R1 1.127			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	26-Sep-2011		
Legal Land Location	NW SEC 10 TWP 9 RGE 26 W4M			Data Entry By	Erin Roberts		
Longitude, Latitude	-113:27:02, 49:43:14			Data Entry Date	16-Nov-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA26			Review Date	07-Oct-2011		
Clear Roadway/Skew	12.2 /			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 54 GIRDER	Semi	CS2 61 GIRDER	Train	CS3 72 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> 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)	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 req.							
Hazard Marker At Bridge (Y/N)	No							
Remarks								
Other Sign Types	RIVER ID.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Pedestals SW & NW of bridge.		Gas
Power	Fibre Optics @ NE		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve @ North
Vertical Alignment		8	8	
Roadway Width (m)	12.200			
Approach Bump		5	5	
Guardrail (Y/N)	Yes			11m @ NW
Guardrail		5	5	
Length (m)	99.000			Not thriebeam
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 33.5-33.5-33.5-33.5, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : SUPERBOLT CONN)					
Special Feature					
(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		5	5	Chipcoat on epoxy on HD concrete, up to 120mm total thickness. Numerous patches	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 120)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		5	5	Trucks bounce at joints. Noticable sag in spans 2 and 3.	
Deck Joints		3	3	Middle pier joint torn @ E shoulder Finger Plates and Gland Joints dirt filled. Find welds appear to be repaired.	
Temperature (deg. C)		20			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
75		S. abut			
80		pier 1			
90		pier 2			
85		pier 3			
90		N. abut			
Deck Drainage		4	4	Stained @ center pier from leakage @ failed deck joints	
Drains Clogged (Y/N)		No			
Curbs/Median		6	6		
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail		7	7	20% grout @ base plates failed A/B nuts not fully engaged.	
(Type : STAINLESS STEEL BRIDGE TUBE;STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;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	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 4 Spans, Lengths(m): 33.5-33.5-33.5-33.5, A-Ident Number:)				
Girders		4	4	CORROSION STAINS @ SPAN #1 EAST and west EXT. @ NORTH END. With vert'l end cracking. SMALL SPALL #7 FROM NW #2 & #3 FROM NW HAS CRACKED ON UNDERSIDE OF LEG @ North span
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 32)				
Diaphragms/Cross Frame		7	7	
Bearings		5	6	Approx 60% are bulging.
Temperature (deg. C)	20			BOLTED TOGETHER @ PIERS #1 & #3
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	SOME CORROSION STAINS @ WEEP DRAINS @ UNDERSIDE OF DECK (at all spans).
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Noticable sag in Sp. 2 and 3.
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	Canada geodetic survey #84A174 @ NW wingwall.
Piles		N	N	Buried.
Paint/Coating		5	5	Tar coating at abuts.
Abutment Stability		7	7	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		5	5	Spalls and exposed rebar at South pier at ends
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				Vertical Wide cracks at piers.
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Corroded
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Drift
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	Some vertical banks u/s.
HWM (m below Top of Curb)	5.0			No HWM visible.
Drift (Y/N)	Yes			At piers 1 and 2 Large to medium drift.
Slope Protection		5	6	Concrete and rip rap at north
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	Weld down fingers on abut deck joints if not done. Replace gland @ P2					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012						
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	61.7/61.6	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	26-Jun-2013		Previous Inspection Date	22-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							