

Bridge Inspection										
Bridge File Number	76511 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1983/1983				Lot No.	1				
Bridge or Town Name	FORT MACLEOD				Inspector Name	Garry Roberts				
Located Over	LNI - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	785:02 C1 55.390				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	29-Nov-2012				
Legal Land Location	SE SEC 14 TWP 9 RGE 27 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-113:33:07, 49:43:40				Data Entry Date	04-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA26				Review Date	06-Dec-2012				
Clear Roadway/Skew	9.5 / 26 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	990 / 2011 (A)				Dept. Review Date	08-Jan-2013				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	10									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS300						----> Primary Span			

Posting Information									
Required Load Posting (t)	Single		Semi		Truck Train				
Posted Loading (t)	Single		Semi		Truck Train				
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	Not required.								
Other Sign Types	LN06.								

Utilities (Located at)										
Utility Attachments										
Telephone	South ditch.				Gas					
Power	North 3 line.				Municipal					
Others					Problem (Y/N)	No				
Remarks	AGT cable X's under West abut.									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8						
Vertical Alignment		7	7						
Roadway Width (m)	9.500			2 rotted and burnt posts at NW. Signs of rot at several others. Type VI AL corners. Not thriebeam.					
Approach Bump		7	7						
Guardrail (Y/N)	Yes								
Guardrail		7	3						
Length (m)	14.000								
Current Standard (Y/N)	No								
Termination Type	TERMINAL END								
Drainage		6	4	Open gaps and voids under approach transition curbs.					
Approach Road General Rating		7	7						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : DBT, 1 Spans, Lengths(m): 38, 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			X	X	Active leakage between all girders.	
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			6	6	Grout pockets are low at 6 locations.	
Deck Rideability			7	7		
Deck Joints			7	7	Galvanized buffer angles.	
Temperature (deg. C)		-8				
(Expansion Type : BUFFER ANGLES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8	NW corner post has 3 A/B nuts with insufficient thread.	
(Type : 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		
Girders			7	7	Hairline diagonal cracks extend into thin web section-very minor.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 9)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 38, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	Minor spalls at 5 East diaphragms.
Bearings		8	8	
Temperature (deg. C)	-8			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	6	Active staining between units @ grout key.
Stains (Percent Area)	2			
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		7	7	Gravel piles on both seats from prior to paving.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	T.T. backwalls.
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)		(Deck to S/B= 5.2m).		
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	3.2			Waterline on banks.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : GRAVEL; GRAVEL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

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	2013	Place NH grout at 6 pockets.					
SEAL DECK							
OVERLAY DECK	2016	HPC overlay.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2013	Abut seats.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair voids and settlement at approach curbs.					
OTHER ACTION	2013	Replace all timber posts at approach rails (35 req.)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	72.6/71.1	Est. Repl. Yr	2040	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	29-Feb-2016		Previous Inspection Date	07-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							