

Bridge Inspection											
Bridge File Number	78151 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1981/1981					Lot No.	2				
Bridge or Town Name	FT MCMURRAY					Inspector Name	Wade Nanninga				
Located Over	63:11 L1 10.646;63:11 R1 10.622					Inspector Class	BR CLS A				
Located On	14093:02 L1 0.049;14093:02 R1 0.048					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	16-Nov-2011				
Legal Land Location	SE SEC 16 TWP 89 RGE 9 W4M					Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-111:21:59, 56:42:52					Data Entry Date	12-Dec-2011				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA07					Review Date	23-Nov-2011				
Clear Roadway/Skew	23.2 / -5 deg. (LHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	2,000 / 2011 (E)					Dept. Review Date	19-Dec-2011				
Road Classification						Follow-Up By					
Detour Length (km)	5										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS230					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 63 L1 5.4m, 63 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.5	In Advance (Y/N)	Yes
Remarks												
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			Information signs for exits.									

Utilities (Located at)					
Utility Attachments					
Telephone				Gas	
Power	3 Wire W row			Municipal	Wire box under girders @ NW. Rusted, exposing wires
Others	Street lights, traffic lights			Problem (Y/N)	Yes
Remarks					

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	50 kph speed limit on structure and 70 kph speed limit beneath. Intersections both ends.
Vertical Alignment		7	7	
Roadway Width (m)	23.000			Insufficient posts. Missing 8 splice bolts @ SE - photo. NE - 36.4m radius; SE - 15.2m; NW & SW - 99m radius. Missing 14 splice bolts @ NW.-Damaged @ NE, NW, SW
Approach Bump		5	5	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		3	N	(Approach drainage run in hole along NW curb - photo. Void 300mm-filled with dirt. - 9 Mar 10)
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FM, 2 Spans, Lengths(m): 28-26, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	15.0	0.0	0.0	0.0	
Wearing Surface			6	6	Concrete with chipseal overlay Deck grooves worn in wheelpaths. Chipseal is worn off at wheelpath next to both curbs.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	3	Grader damage(minor) at E abut., North lane, paving lip. Leaking onto E abutment under G2
Temperature (deg. C)		-15			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
70		East abutment			
80		Pier			
100		West abutment			
Deck Drainage			5	5	No deck drains.Bridge on grade drains to East.
Drains Clogged (Y/N)					
Curbs/Median			3	N	(Severe scaling exposing water stop @ S2 North curb.-photo 9 Mar 2010)
(Curb Type : Standard)					
Scaling (Percent Area)		20			
Bridge Rail			7	7	Not enough thread in 3 AB
(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			4	N	South side only. (1.5m wide local scaling over pier. East approach for South sidewalk settled, trip hazard.-exposed rebar at E. abut.-photo 9 Mar 2010)
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	2	
Now	0	0	0	0	
Spalling/wide Vertical crack at ends of S1G16 & S2G16.					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 2 Spans, Lengths(m): 28-26, A-Ident Number:)				
Girders		3	4	Typical chamfer cracks,extending into underside, medium cracks along bottom of leg at ends Minor HLP midspan SP2
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 32)				
Diaphragms/Cross Frame		6	6	
Bearings		4	4	Grout pad at SP2 G1 & G2-widecrack- W abut, piers E abut
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		7	3	Gully next to NW - creating void under concrete corner creating void under concrete slope protection.
Piers/Bents				
(Type : PIER-COLUMN)				Narrow crack down vertical face (N-end) extending 75mm.-photo
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 9)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	8	
Traffic Safety Features		7	7	
Type	Guradrail & Concrete Median			
Slope Protection		4	3	Settled with void near top of slope protection @ both sides. Gulley next to concrete @ NW corner creating void under concrete.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		4	3	

Proposed Action			
Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	Wade Nanninga
Next Inspection Date	16-Aug-2013	Previous Inspection Date	09-Mar-2010
Inspection Cycle (Default) (months)	21		
Comment			