Bridge Inspection

Bridge File Number	78154 -1 Bridge	Form Type	SG
Year Built/Year Supstr	2003/2003	Lot No.	4
		Inspector Name	Wade Nanninga
Bridge or Town Name	FORT MCMURRAY	Inspector Class	BR CLS A
Located Over	63:11 L1 9.520;63:11 R1 9.492	Assistant Name	
Located On	25154:02 L1 0.009;25154:02 R1 0.009	Assistant Class	
Water Body Cl./Year		Inspection Date	16-Nov-2011
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NW SEC 10 TWP 89 RGE 9 W4M	Data Entry Date	12-Dec-2011
Longitude, Latitude	-111:21:22, 56:42:22	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	23-Nov-2011
Contract Main. Area	CMA07	Dept. Reviewer Name	Brent Herrick
Clear Roadway/Skew	11.4 /	Dept. Review Date	15-Dec-2011
AADT/Year	1,000 / 2011 (E)	Follow-Up By	
Road Classification	RLU-208-110		
Detour Length (km)	1		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member	
Design Loading:							---> Primary Span	

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)				Yes							
Posted:	Lane	NB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks											

Required Load Posting (t)		Single		Semi		Truck Train		
Posted Loading (t)		Single		Semi		Truck Train		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	EB	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, 30kph

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others	Street lights.	Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	On / off ramps. Crest curve. Traffic circle immediately East. Bridge posted for 30km/h
Vertical Alignment		7	7	
Roadway Width (m)	11.400			
Approach Bump		8	8	
Guardrail (Y/N)	Yes			Jersey barriers at 4 corners - in between tube rail and flexbeam. Minor creasing to rail on NE ramp.
Guardrail		7	7	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	Turn down			
Drainage		8	8	

Approach Road

	Last	Now	Explanation of Condition
Approach Road General Rating	**6**	**6**	

Superstructure

Bridge Component	Last	Now	Explanation of Condition
(Primary Span : **WG, 2 Spans, Lengths(m): 36-32, A-Ident Number:**)			
Special Features			
Special Feature		X	
(Type :)			
Special Feature		X	
(Type :)			
Wearing Surface/Deck Top Detail Ratings			
Wearing Surface	6	6	Transverse and longitudinal cracking.
(Material Type : **ACP**)			
(Thickness(mm) : **80**)			
Deck Top	N	N	
Deck Rideability	8	8	
Deck Joints	7	7	
Deck Drainage	7	7	No deck drains.
Curbs/Median	7	N	Typical transverse cracking.
(Curb Type : **Standard**)			
Bridge Rail	8	8	
(Type : **GALVANIZED STEEL TUBE BEAM TYPE 2**)			
Bridge Rail Posts	8	8	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)			
Bridge Rail/Posts Coating	8	8	
(Type : **GALVANIZED**)			
Sidewalk	X	X	
Girder/Beam			
Cover Plate	X	X	
Flange	9	9	
Web	9	9	
Stiffeners	9	9	
Splice	9	9	
Weld	9	9	

	N (%)	1 (%)	2 (%)	3 (%)
Last	20	0	0	0
Now	20.0	0.0	0.0	0.0

Dirt/snow along curbs.

Temperature (deg. C): -15

(Expansion Type : **GLAND (WABO-MAUER, TRANSFLEX, ETC)**)

(Fixed Type :)

Gap Size (mm)	Gap Location
80	East abutment
105	West Abutment

Drains Clogged (Y/N):

Scaling (Percent Area): 0

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **WG, 2 Spans, Lengths(m): 36-32, A-Ident Number:**)				
Diaphragms/Cross Frame		8	8	
Paint Condition		7	6	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	-15			
(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	Couple of transverse cracks with efflorescence.
Stains (Percent Area)	0			
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		7	7	SW corner has minor cracks with efflorenscence
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		9	9	
Scour/Erosion		9	8	
Piers/Bents				
(Type : **PIER-COLUMN**)				Viewed from headslopes
Bearing Seats/Caps		9	9	
(Type : **CONCRETE**)				
(Total Number of Bearing Piles : **0**)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		9	9	
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		9	9	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Debris (Y/N)	No			
Substructure General Rating		**8**	**8**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Grade Separation				
Road Alignment		8	8	High load warning system in advance.
Traffic Safety Features		8	8	
Type	W flexbeam			
Slope Protection		6	6	Top of East concrete slope protection pulled away 70mm.
(Type : **CONCRETE; CONCRETE**)				
Bank Stability		8	8	
Drainage		6	7	
Grade Separation 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						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**83.3/83.3**	**Sufficiency Rating (Last/Now) (%)**	**75.3/73.5**	Est. Repl. Yr	2078	Maint. Reqd. (Y/N)	No

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	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			