

Bridge Inspection										
Bridge File Number	77872 S-2 Bridge				Form Type	SG				
Year Built/Year Supstr	2000/2000				Lot No.	4				
Bridge or Town Name	FT MCMURRAY				Inspector Name	Wade Nanninga				
Located Over	POPLAR CREEK, 8.11.31, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	63:12 L1 14.557				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	15-Nov-2011				
Legal Land Location	NE SEC 24 TWP 91 RGE 10 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:27:42, 56:54:47				Data Entry Date	23-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA07				Review Date	23-Nov-2011				
Clear Roadway/Skew	12.4 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	20,590 / 2010 (A)				Dept. Review Date	15-Dec-2011				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	50									
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 required.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not required.									
Other Sign Types	"Poplar Creek" ID, NE corner.									

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w				Gas				
Power	5 wires East at NB structure.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Hill North of structure.					
Vertical Alignment		6	6	SE & SW - 17.1m; NW - 99.0m PC jersey barrier.					
Roadway Width (m)		14.600		Slight bump transition from ACP to conc at both ends.					
Approach Bump		6	5						
Guardrail (Y/N)		Yes		NE - 99.0m W-flexbeam.					
Guardrail		5	6	No thrie beam					
Length (m)		17.100							
Current Standard (Y/N)		No							
Termination Type		Turn Down							
Drainage		4	N	Void under SE corner of approach slab.-08-Mar-2010					
Approach Road General Rating		6	6						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 1 Spans, Lengths(m): 50, A-Ident Number: A1311-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Viewed from 4 corners.	
Last						
Now	10.0	0.0	0.0	0.0		
Wearing Surface				7	6	Medium transverse cracks visible.
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top				N	N	
Deck Rideability				7	6	
Deck Joints				4	N	(Curb cover plates too short of curb, water leak through gap & sit on abutment seat / bearing, cover plate should be extended to cover gap. 2000/11/07) Joints filled with dirt and debris. Water leaking onto abutment seat.-08-Mar-2010
Temperature (deg. C)		-10				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
65		North abutment				
55		South abutment				
Deck Drainage				4	4	Dirt/Ice buildup along curb gutters impeding drainage.
Drains Clogged (Y/N)		Yes				
Curbs/Median				6	N	Scaped by plow. -08-Mar-2010
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail				6	6	Dirty, stained.
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts				6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				6	5	
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder/Beam						
Cover Plate				X	X	Approx 40mm sag in steel girders.
Flange				7	7	
Web				8	8	
Stiffeners				8	8	
Splice				X	X	
Weld				8	8	
Diaphragms/Cross Frame				8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 50, A-Ident Number: A1311-01)				
Paint Condition		5	5	Weathering steel. Superficial rust along bottom flange-outside girder.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	Wide cracks in all South abutment bearing grout SW pad - lateral deformation.
Temperature (deg. C)	-10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Cracks with efflourence staining near midspan.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	Yes			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		6	6	Shallow covering exposing rebar at SW corner.
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		7	7	
Scour/Erosion		7	7	
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				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	52.7/52.7	Est. Repl. Yr	2075	Maint. Req. (Y/N)	No
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Special Comments for Next Inspection	Monitor grout pads @ S abut.	Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy	
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On 3-Year Program (Y/N)	
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Proposed Action	
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Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	Wade Nanninga
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Next Inspection Date	15-Aug-2013	Previous Inspection Date	08-Mar-2010
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Inspection Cycle (Default) (months)	21
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Comment	
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