

Bridge Inspection									
Bridge File Number	75678 -1 Bridge					Form Type	SG		
Year Built/Year Supstr	1964/1964					Lot No.	2		
Bridge or Town Name	MILLET					Inspector Name	Wade Nanninga		
Located Over	2:30 R1 20.108;2:30 L1 20.108					Inspector Class	BR CLS A		
Located On	MUNICIPAL					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	25-Apr-2013		
Legal Land Location	SE SEC 16 TWP 48 RGE 25 W4M					Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-113:35:52, 53:08:03					Data Entry Date	03-May-2013		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA11					Review Date	01-May-2013		
Clear Roadway/Skew	8.5 /					Dept. Reviewer Name			
AADT/Year	25 / 2013 (E)					Dept. Review Date			
Road Classification	RLU-208-100					Follow-Up By			
Detour Length (km)	10								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 2 L1 5.1m, 2 R1 5.1m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)	5.1	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.1	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												

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types	School Bus Stop, Narrow One Lane, Do Not Pass With Oncoming Traffic.											

Utilities (Located at)									
Utility Attachments									
Telephone						Gas	SW corner & to West.		
Power	2 lines North r/w.					Municipal			
Others	Fibre optic West r/w Hwy 2.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances 100m West.
Vertical Alignment		5	5	Limited sight distances due to crest curve over Hwy.
Roadway Width (m)	8.100			East approach slab settled 100mm. West approach slab settled 90mm. Approaches have been patched.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Stops short of parapet. Not attached to bridgerail.
Guardrail		7	4	Missing 4 splice bolts @ SW and at NE.
Length (m)	99.000			Broken post @ SE.
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	6	
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 4 Spans, Lengths(m): 12.2-23.2-23.2-12.2, A-Ident Number: A0434-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	5	Wide random cracking.	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	6	North curb cover plate, east end lifted 10mm.	
Temperature (deg. C)		15				
(Expansion Type : SLIDING PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
45			East abutment			
55			West abutment			
Deck Drainage			4	4	Deck drainage runs under approach slab @ NE, NW & SE corners - photo.	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Wide vertical cracks every 3.0m. One spall due to wood left in concrete (0.03sq.m). Near north curb near West abutment.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			6	6	-30% insufficient threads. 10% AB not fully engaged. Approx 20% rusted areas.	
(Type : VERTICAL BAR)						
Bridge Rail Posts			4	4		
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating			4	4		
(Type : PAINT)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	7	Minor scrapes due to high load damage. High load damage, minor scrape NB. (Span 2 girder 4 plate 2 West end has a 5mm non terminated crack in return weld at end of plate - Jul/2011)	
Flange			7	5		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 4 Spans, Lengths(m): 12.2-23.2-23.2-12.2, A-Ident Number: A0434-01)				
Paint Condition		5	5	Superficial spot rusting.
(Colour Description : GREEN)				Green.
(Colour Code : 14090)				20% peeling on bottom flange spans.
Touchup Required (Y/N)	No			
Bearings		5	5	One bearing west abutment missing nut. SW corner anchor bolt not long enough for nut (too short).
Temperature (deg. C)	15			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Transverse cracks with efflorescence staining. Deck spalls along girder where high load damage occurred.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Centre spans have negative camber.
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	Vertical crack with efflorescence each abutment.
Wingwalls		6	6	Narrow random cracks.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	4	Slope protection settled/cracked.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	2 columns/pier
(Type : CONCRETE)				
(Total Number of Bearing Piles : 2:2:2)				Map cracking.
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	15% peeling pier 3. Type 3 sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	
Type	Guardrail			
Slope Protection		4	4	Has settled 200mm & pulled away from abutment, 130m West. East pulled away 170 & settled 100mm. Wide crack East headslope with some differential settlement.-photo
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		4	5	
Grade Separation General Rating		4	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Tighten retrofit anchor bolts.					
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	2013	Seal gaps between approach slab and curbs.					
OTHER ACTION	2013	Attach approach guardrail to bridge. Install missing splice bolts.					
OTHER ACTION	2013	Replace post @ SE.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	63.5/65.1	Est. Repl. Yr	2027	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	25-Jan-2015		Previous Inspection Date	14-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							