

Bridge Inspection											
Bridge File Number	75667 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1963/1963					Lot No.	1				
Bridge or Town Name	MILLET					Inspector Name	Owen Salava				
Located Over	2:30 R1 15.249;2:30 L1 15.249					Inspector Class	BR CLS A				
Located On	616:08 C1 13.902					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	20-Feb-2013				
Legal Land Location	SE SEC 33 TWP 47 RGE 25 W4M					Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:35:52, 53:05:26					Data Entry Date	11-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien				
Contract Main. Area	CMA17					Review Date	27-Feb-2013				
Clear Roadway/Skew	9.1 /					Dept. Reviewer Name	Chris Black				
AADT/Year	1,570 / 2011 (A)					Dept. Review Date	28-Mar-2013				
Road Classification	RCU-208-110					Follow-Up By					
Detour Length (km)	30										
Allowable Load (t):	Single	CS1 42 GIRDER			Semi	CS2 55 GIRDER		Train	CS3 76 GIRDER		----> 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)													
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.3	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)			In Advance (Y/N)				At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)			In Advance (Y/N)				At Bridge (Y/N)			
Remarks													

Hazard Marker At Bridge (Y/N)	No												
Remarks													
Other Sign Types													

Utilities (Located at)													
Utility Attachments													
Telephone						Gas							
Power						Municipal							
Others						Problem (Y/N)	No						
Remarks													

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		8	8	On crest curve - typical of GS.	
Vertical Alignment		6	6		
Roadway Width (m)	8.700				
Approach Bump		6	6		
Guardrail (Y/N)	Yes				
Guardrail		4	6		
Length (m)	99.000				
Current Standard (Y/N)	Yes				
Termination Type	TURNED DOWN				
Drainage		4	4	Drainage at NW corner causing erosion at wingwall - photo; drains onto slope protection.	
Approach Road General Rating		6	6		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 13.7-22.9-22.9-13.7, A-Ident Number:)					
Special Features					
Special Feature			6	Dywidag post tension. Spall at SW anchor block-photo. Tensioning S2G1 only.	
(Type : EXT LONGIT POST TENS)					
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			6	6	Typical random transverse cracks with one longitudinal crack down center. Chip sealed. Transverse crack at paving lip.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	N	(A2 gland damaged WBL (photo). 11Jul2011) - Gravel covered. Leaking causing icing at both abut bearing seats (photos).
Temperature (deg. C)		-10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
64		E. abut			
60		W. abut			
Deck Drainage			7	4	PVC retrofit drains; install at random in ext. girders as required. Water ponds along breastwalls at A1-2; leaking through abut jnts with erosion gullies & slope protection damage.
Drains Clogged (Y/N)		No			
Curbs/Median			4	5	Vertical cracks along exterior edge spaced approx. 3.5m. 2 rust spots on North curb.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			5	5	Minor bend panel 6N, 1 bar. NE post damaged but functioning. Some post A/B insufficient thread on nut. Rusting where damaged.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(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	1	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 4 Spans, Lengths(m): 13.7-22.9-22.9-13.7, A-Ident Number:)				
Girders		4	3	Typical girder leg cracking near bearing shoe plate. Wide crack at shoe plate on S4G1. S4G1, exposed strand at abut, spalled leg underside, low cover, strand corroded (drwgs show a #8 bar 4ft long at this location; shouldn't be any strand).
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 24)				
Diaphragms/Cross Frame		4	3	Medium cracking in S4G6 1st diaphragm from abut. Spalled S4G1 at abut.
Bearings		4	4	Most bearings are rusting. Bearings do not appear to be moving. A1,A2 P1,P2
Temperature (deg. C)	-10			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		4	4	Spalled deck U/S in exterior girders exposing rebars - painted but rusting through - photo. Retrofit drains added.
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	Icing on abut seats.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		4	4	Erosion along NW wingwall - photo.
Piers/Bents				
(Type : PIER-COLUMN)				Vertical narrow cracking under exterior bearing A/B - photo (typical).
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				Typical narrow map cracking on all columns.
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(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		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		4	6	
Type	GUARDRAIL			
Slope Protection		5	5	Away & settled 150mm @ E. Away 110mm & settled 320mm at W.iced over. Cracks to 6mm width in slope protection. Top of slope protection is sloped towards abut.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	5	
Drainage		6	6	
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	Straighten or replace 1 post at NE.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair & reseal, if not yet done; still leaking.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	2m3 pitrun at NW.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Assess problem, if suitable; patch S4G1 at abut, spalled leg, 0.1m 3 OH-V.					
OTHER ACTION	2013	Seal slope protection cracks.					
OTHER ACTION	2013	Patch & seal end diaphragms.					
OTHER ACTION	2013	Install drain trough at NW.					
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	51.7/50.6	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action required for spalled deck underside or bearings at this time.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	20-Nov-2014		Previous Inspection Date	11-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							