

Bridge Inspection											
Bridge File Number	09399 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1995/1995				Lot No.	2					
Bridge or Town Name	MORLEY				Inspector Name	Garry Roberts					
Located Over	OLD FORT CREEK, 2.13.55, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	1A:04 C1 5.512				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	19-Sep-2012					
Legal Land Location	SE SEC 21 TWP 25 RGE 8 W5M				Data Entry By	Lauren Korte					
Longitude, Latitude	-115:03:02, 51:08:31				Data Entry Date	03-Oct-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney					
Contract Main. Area	CMA28				Review Date	21-Sep-2012					
Clear Roadway/Skew	10 / -45 deg. (LHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	1,710 / 2011 (A)				Dept. Review Date	11-Oct-2012					
Road Classification	RAU-209-110				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:	CS750									----> Primary Span	

Posting Information									
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									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South ditch.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve and grade @ East.				
Vertical Alignment			6	6					
Roadway Width (m)		7.300							
Approach Bump			6	6					
Guardrail (Y/N)		Yes			Missing 2 splice bolts at SE. Improper transition bolts at NE.				
Guardrail			4	4	7.6 type VI @ NW @ entrance.				
Length (m)		45.600			Not thriebeam.				
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			7	4	Erosion at NW approach posts and starting to undermine drain trough.				
Approach Road General Rating			5	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FR, 3 Spans, Lengths(m): 17-22-17, A-Ident Number: A1248-01)						
Special Features						
Special Feature			X			
(Type :)						
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			7	7	Isolated cracking.	
(Material Type : MIX TYPE 2 ACP)						
(Thickness(mm) : 80)						
Deck Top			N	N	Paved over.	
Deck Rideability			7	7		
Deck Joints			6	3	Finger plates sit up 10mm @ West.	
Temperature (deg. C)		23		A1 has 2 cracked finger weld in WBL and 3 in EBL. A2 has 2 cracked finger welds at WBL. Approx. 0.5m2 paving lip spalls at A1 and 0.2m2 at A2.		
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
95		West abutment				
85		East abutment				
Deck Drainage			6	6		
Drains Clogged (Y/N)		No				
Curbs/Median			7	6	Typical transverse curb cracks. Efflorescence @ cracks underneath curbs.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			7	7	Missing isolated splice bolts but splices are welded so not required.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FR, 3 Spans, Lengths(m): 17-22-17, A-Ident Number: A1248-01)				
Paint Condition		X	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Bottom of pier has rocker bearing.
Temperature (deg. C)	23			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescene @ deck exterior @ transverse cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			South side of bottom flange @ West pier has minor misalignment of 50 mm as built.
Horizontal (Y/N)	Yes			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	Minor stains and scaling @ East abut from previous leaking backwall trough.
Wingwalls		7	7	Settlement cracks.
Piles		N	N	Buried.
Paint/Coating		5	5	Graffiti at both abutments.
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-TRESTLE)				
Bearing Seats/Caps		8	8	
(Type :)				
(Total Number of Bearing Piles : 4:4)				Concrete pier footing.
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Bend U/S but confined by high banks.
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		8	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		8	7	At pier footings. Remainder is natural shale.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 2 rail transition bolts @ NE 2 splice bolts @ SE.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch paving lip spalls 0.5 m2 @ A1 0.2m2 @ A2.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repair 4 broken welds @ A1, 2 @ A2.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	0.3m3 ACP at NW corner.					
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) (%)	72.9/71.9	Est. Repl. Yr	2061	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	19-Jun-2014		Previous Inspection Date	07-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							