

Bridge Inspection									
Bridge File Number	78289 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1989/1989				Lot No.	2			
Bridge or Town Name	ROCK LAKE				Inspector Name	Wade Nanninga			
Located Over	WILDHAY RIVER, 8.11.118.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	23-Apr-2013			
Legal Land Location	SE SEC 9 TWP 52 RGE 2 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:13:54, 53:28:24				Data Entry Date	01-May-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	UNDEFINED CMA				Review Date	29-Apr-2013			
Clear Roadway/Skew	7.6 / 15 deg. (RHF)				Dept. Reviewer Name				
AADT/Year	20 / 2013 (E)				Dept. Review Date				
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS225						----> 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									
Hazard Marker At Bridge (Y/N)		Yes							
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			4	4	Bridge on crest curve and @ end of horizontal curve. Limited sight distances and reduced speed. Uphill grade to East.				
Vertical Alignment			5	5					
Roadway Width (m)			6.000						
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			4	6					
Length (m)			11.500						
Current Standard (Y/N)			No						
Termination Type			Turn Down						
Drainage			7	7					
Approach Road General Rating			4	4					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 2 Spans, Lengths(m): 11-11, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10				
Now	30.0				
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)					
Deck Top			7	5	Random cracking
Deck Rideability			7	7	
Deck Joints			7	7	Buffer angles. Rated where visible.
Bump (Y/N)		No			
Deck Drainage			6	6	End of curbs, NE side chipped.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	No deck drains.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	Double layer. Not spliced per standard detail.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			5	5	Several curb girders have typical diagonal cracks less than 0.5m.
Last Complete Inspection Date		23-Apr-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 14)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1700)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	One cap stiffener @ West abutment not centered over pile.	
Last						
Now						
Bearing Seats/Caps/Corbels			6	6		
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		2.10				
Wingwalls				6	6	Planks on SE chewed up a bit.
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles			7	7		
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Neoprene pad between cap & girders.	
Last						
Now						
Bearing Seats/Caps/Corbels			7	7		
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	3rd pile from U/S, bent & re-inforced. Appears to have been done during the construction. All pier piles are slightly vertically twisted - photos.	
Last						
Now						
Pier Shaft/Piles			5	4		
Greatest Height (m)		3.00			Splices above SB. P2 goes to smaller steel H-section below splice. Approx. 200mm out of plumb.	
Bracing/Struts/Sheathing				7		
Nose Plate				X	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Not painted, rusty.
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		6	6	
Debris (Y/N)	Yes			Drift under East span - photo.
Substructure General Rating		5	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				HWM not visible. Deadfall in channel.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				
Drift (Y/N)	Yes			
Slope Protection		4	4	Toe of headslopes sloughing
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2013	Armour both headslopes. 30m3 Class 2					
REMOVE DRIFT ACCUMULATION	2013	Remove drift from under bridge.					
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	50.3/48.4	Est. Repl. Yr	2032	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier pile stability, twisting and sloughing headslopes.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	23-Jan-2018		Previous Inspection Date	20-May-2008			
Inspection Cycle (Default) (months)	57						
Comment							