

Bridge Inspection							
Bridge File Number	79389 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1954/1954			Lot No.	2		
Bridge or Town Name	ROCK LAKE			Inspector Name	Wade Nanninga		
Located Over	ROCK CREEK, 8.11.118.3.11, 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	NW SEC 4 TWP 52 RGE 2 W6M			Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-118:14:31, 53:27:58			Data Entry Date	03-May-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	UNDEFINED CMA			Review Date	29-Apr-2013		
Clear Roadway/Skew	7.3 /			Dept. Reviewer Name			
AADT/Year	5 / 2013 (E)			Dept. Review Date			
Road Classification	RLU-208G-60			Follow-Up By			
Detour Length (km)	999						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
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)	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		5	5	Curve to North and kink in South approach - photos.
Vertical Alignment		7	7	
Roadway Width (m)	6.000			Insufficient length/posts - photo.
Approach Bump		N	N	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	8.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 2 Spans, Lengths(m): 8.5-8.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X	"Steel Gate" On North side of bridge. Park keeps it locked over winter.	
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	20.0	0.0	0.0	0.0	
Wearing Surface			X	X	Girders are not connected. 20mm gap between most of girders.
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	4	Some spalling on edges & ends - photos. Patch @ S2G3 cracked/delam - photo. Transverse crack full width @ S1G5 - photo. Some girder lift pockets not grouted, other lift pockets grout delam.
Deck Rideability			7	5	
Deck Joints			X	X	No buffer angles at girder ends.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Single layer. Modified with torch to accommodate bolt. Posts on flat.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			6	6	Rail only.
(Type : <b>TREATED TIMBER;TREATED TIMBER</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	SP1G5, G8 med shear cracks tie into wide traverse.
<b>Last</b>					
<b>Now</b>	0	0	0	2	
Girders			4	3	6 girders have longitudinal cracking. G7S2 has wide long crack in one leg that extends into A2. 6 girders have transverse crack in deck which extends into both legs. Typical flexural cracking in most girders. G1S2 has spall in one leg within A2.
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 : 16)					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>3</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1400)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	20	0	0	0		
Bearing Seats/Caps/Corbels				4	4	Caps cored in 2012 - no rot found. Westend of A2 cap split.(photo)
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		2.20				
Wingwalls				4	5	(Broken top plank @ SE. Anchored with clamp/scab. Jun/12)
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Piles				4	4	Piles cored in 2012. (Beginning of rot found in A1-P1, P3 & P4 and A2-P4,P5. Estimated remaining service life of piles is 10 years. - Jun/12)  A1P4 & P5 not plumb, probably constructed that way.
Paint/Coating				X	X	
Abutment Stability				5	6	
Scour/Erosion				N	6	
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				4	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
(Total Number of Bearing Piles : 8)						Piles cored in 2012. P2 split 15mm (photo) (Rot with void(15mm) in P5. Beginning of rot found in P1,P4,P8 - Jun/12) Estimated remaining service life for piles is 5-10 years.  P5 rated '3' in 2012 Rating based on coring from 2012	
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	1			
Now	1	0	0	0			
Pier Shaft/Piles				3	4		
Greatest Height (m)		2.50					
Bracing/Struts/Sheathing				7	7		
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description : )							
(Colour Code : )							
Pier Stability				7	7		
Scour				N	5		
Debris (Y/N)		Yes					
<b>Substructure General Rating</b>				<b>3</b>	<b>3</b>	GR carried forward from 2012	
Structure Usage							
				Last	Now	Explanation of Condition	
<b>Channel</b>							
(U/S Direction : <b>W</b> )							
(D/S Direction : <b>E</b> )							
Alignment				8	8	HWM not visible.	
Bank Stability				7	7		
HWM (m below Top of Curb)							
Drift (Y/N)		No					
Slope Protection				7	6		
(Type : <b>NATURAL; NATURAL</b> )							
Guidebank/Spurs				X	X		
Adequacy of Opening				7	7		
(Fish Compensation Measure 1 : <b>NONE</b> )							
(Fish Compensation Measure 2 : <b>NONE</b> )							
<b>Channel General Rating</b>				<b>7</b>	<b>6</b>		

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Remove cracked patch @ S2G3 & redo.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS	2013						
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Install keepers on top of caps @ ext girders.					
OTHER ACTION	2013	Replace rotten top plank @ SE wingwall - if not done.					
OTHER ACTION	2013	Treat and band P2 in pier.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.3/55.5</b>	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking. Monitor cracked cap. Monitor piles. Assessment underway in Feb 2012. Assessment recommended replacing caps/rotten piles.		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	23-Jan-2018		Previous Inspection Date	27-Jan-2012			
Inspection Cycle (Default) (months)	57						
Comment							