

Bridge Inspection									
Bridge File Number	74356 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1988/1988				Lot No.	2			
Bridge or Town Name	CHIP LAKE				Inspector Name	Wade Nanninga			
Located Over	TRIBUTARY TO BIGORAY RIVER, 8.11.84.57.1, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	753:04 C1 25.950				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Jan-2011			
Legal Land Location	NW SEC 21 TWP 52 RGE 10 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:25:35, 53:30:40				Data Entry Date	28-Feb-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA12				Review Date	14-Feb-2011			
Clear Roadway/Skew	10 / 0 deg.				Dept. Reviewer Name	Brent Herrick			
AADT/Year	460 / 2009 (A)				Dept. Review Date	02-Mar-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	60								
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	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	NE hazard marker mounted on 1st post off bridge, NW missing.								
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			7	7	Not thrie beam type. Snow covered. No sign of problem.				
Vertical Alignment			8	8					
Roadway Width (m)	9.800								
Approach Bump			7	6					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	60.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			N	N					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 10-10-10, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered gutters.
Last	10				
Now	10.0	0.0	0.0	0.0	
Wearing Surface			7	7	ACP on waterproofing membrane.
(Material Type : ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Localized area where caulking separating. Similar @ both abutments.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			N	4	(Plough scrapes. 14/July/2006) Snow covered. Curb cracked/delam visible @ S1 West exterior.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	snow covered.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	N	
(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				1	
Now	0	0	0	3	
Girders			3	3	Diagonal crack on underside of curb girders, less than 0.5m, typical, S1G9 & S2G9. S1G9, S2, G1 & S2G9 crack with corrosion staining - photo. All girders stained from connector pockets. S3G1 chipped edge.
Last Complete Inspection Date		24-Jan-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 27)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : N)						No bridge plaque on South abutment.
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.20				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				8	8	
Scour/Erosion				4	4	Settled under cap 100m deep west end south abutment. Erosion gully N abut.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			7	7		
(Type : CONCRETE)						
(Depth(mm) : 750)						
(Width(mm) : 550)						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles			7	7		
Greatest Height (m)		2.80				
Bracing/Struts/Sheathing			4	4	P1 bracing, 1 end cap weld broken.	
Nose Plate			X	X		
Paint/Coating			4	4	Bottom 1m have pitting rust.	
(Colour Description : GREEN)						
(Colour Code : 14090)						
Pier Stability			8	8		
Scour			7	N		
Debris (Y/N)		Yes		Old piles still in streambed, old tire. Large accumulation of drift - photo.		
Substructure General Rating			7	7		
Structure Usage						
		Last	Now	Explanation of Condition		
Channel						
(U/S Direction : W)						
(D/S Direction : E)						
Alignment			7	7	Meandering stream in wide muskeg valley, bends D/S.	
Bank Stability			6	6		
HWM (m below Top of Curb)				HWM not visible.		
Drift (Y/N)		Yes				
Slope Protection			7	4	Erosion gully N abut-S abut settled under cap.	
(Type : NONE; NONE)						
Guidebank/Spurs			X	X		
Adequacy of Opening			8	8		
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		7	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							
REMOVE DRIFT ACCUMULATION	2011						
INSTALL STRUTS							
OTHER ACTION	2011	Replace NW HM move NE					
OTHER ACTION	2011	Repair broken end cap weld					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	58.2/53.7	Est. Repl. Yr	2041	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracked girders. Repair settlement under SW abut. when condition worsens. No action on girders 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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	24-Apr-2014		Previous Inspection Date	16-Dec-2007			
Inspection Cycle (Default) (months)	39						
Comment							