

Bridge Inspection									
Bridge File Number	74679 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1958/1958				Lot No.	2			
Bridge or Town Name	CARNWOOD				Inspector Name	Kris Bosters			
Located Over	BUCKLAKE CREEK, 6.132.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	39:06 C1 5.837				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Dec-2012			
Legal Land Location	SE SEC 11 TWP 49 RGE 6 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:46:09, 53:12:41				Data Entry Date	07-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	03-Jan-2013			
Clear Roadway/Skew	10.3 /				Dept. Reviewer Name	Paul Catt			
AADT/Year	3,650 / 2011 (A)				Dept. Review Date	18-Jan-2013			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 42 GIRDER	Semi	CS2 53 GIRDER	Train	CS3 65 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	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)	No								
Remarks									
Other Sign Types	Creek name signs both sides.								
Utilities (Located at)									
Utility Attachments									
Telephone	North and south r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Limited sight distance. Horizontal curve on East end. Passing lanes both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	13.300				Insufficient posts, not thrie beam.				
Approach Bump			8	7					
Guardrail (Y/N)	Yes								
Guardrail			N	7					
Length (m)	30.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	4	Gully on West headslope. 0.5 deep x 1 wide x 10m long.-photo				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 2 Spans, Lengths(m): 23.3-23.3, A-Ident Number:)					
Special Features					
Special Feature		8	8		
(Type : EXT SHEAR STIRRUP)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	20	0	0	0	
Now					
Wearing Surface		6	4	Chipseal over epoxy wearing surface on concrete. About 8m2 missing EBL.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		6	6		
Deck Joints		4	4	Pier & abutment joints leaking, damaging pier concrete & W abutment seat. Paving lip cracked/broken at West joint.	
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : BUFFER ANGLES)					
Gap Size (mm)		Gap Location			
		West abutment - paved			
60		Pier - Tar covered			
		East abutment - paved			
Deck Drainage		4	4	Bearings corroding from joint leakage. Gullyng at abutment slopes from 75 mm retro fit drains at both gutters. Deck drains eroding headslopes.	
Drains Clogged (Y/N)		No			
Curbs/Median		N	N	Curbs snow covered. Medium vertical cracks on outside face under posts.	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail		7	4	Missing bolts from connection joints. Superficial corrosion @ base plates.-27-May-2009 Base of posts partially snow covered.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		N	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		N	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders		4	4	Post tensioning duct patches missing @ 4 corners, debonding @ at girder ends over pier. South side with rust stains.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1		Wide long crack extending 200mm from masonry plate G7 East abut. & G8SP1 @ pier. Narrow crack along trans. from end block G1 & G2-E abut.	
(Number Of Girders : 16)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 2 Spans, Lengths(m): 23.3-23.3, A-Ident Number:)				
Diaphragms/Cross Frame		6	5	Narrow diagonal map cracks @ end diaphragms. 60% of end diaphragms over abutments. Corrosion stains on end blocks over piers.
Bearings		5	5	40% pitting corrosion at abutment bearings.
Temperature (deg. C)	-5			
(Expansion Type :)				
(Fixed Type : SLIDING PLATE)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Delam crack forming at NW corner. Along pier joints.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	4	Spalling & heavy scaling NW abutment.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Spalling @ East abut.
Wingwalls		5	5	Medium horizontal and map cracking in SE wingwall.
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		7	7	
Scour/Erosion		4	4	West headslope eroded 0.5m deep, 1m wide, 10m long. Sloughing
Piers/Bents				
(Type : PIER-SOLID)				Wide vertical crack @ CL. 2m long delam crack W side under bearing area G4-6.
Bearing Seats/Caps		4	4	Scaling at G2 & G6, delam cracks 2m long near top of pier. Random medium horizontal & vertical cracks. Severe scaling next to nose plate. Wide vertical crack the full height of pier @ c/l, both sides.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		5	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		6	6	
Paint/Coating		4	4	50% pitting rust on nose plate.
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		N	N	
Debris (Y/N)	Yes			Two 100mm dia logs on U/S end of pier.
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		4	4	U/S East bank sluffing into stream. Vertical banks. Sliding U/S & D/S, both sides of river.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : NONE; RIP RAP)		4	4	Gully & erosion at West headslope. Riprap East side only.
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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair leaking deck joints.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	47.3/46.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor sloughing W headslope.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	14-Sep-2014		Previous Inspection Date	25-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							