

Bridge Inspection									
Bridge File Number	07145 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1982/1982				Lot No.	1			
Bridge or Town Name	CAROLINE				Inspector Name	Owen Salava			
Located Over	RAVEN RIVER, 3.91, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:20 C1 31.228				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Oct-2012			
Legal Land Location	SW SEC 9 TWP 36 RGE 5 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:40:05, 52:04:23				Data Entry Date	08-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	29-Oct-2012			
Clear Roadway/Skew	11.2 / 15 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,970 / 2011 (A)				Dept. Review Date	19-Nov-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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)	No								
Remarks	Not required.								
Other Sign Types	Creek ID.								
Utilities (Located at)									
Utility Attachments									
Telephone	In r/w West of c/l.				Gas	Crossing 175m North.			
Power	2 wire 25m East of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Crest 300m North.				
Vertical Alignment			7	7					
Roadway Width (m)	11.000								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Minor creases in various locations but still functional.				
Guardrail			4	4	Missing bolts @ attachment to bridgerail, 4 corners - photo. 1 bolt only.				
Length (m)	30.400				Insufficient length & posts.				
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 10-11-10, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)					
Curbs/Median			N	6	
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	4	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
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	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	
Last Complete Inspection Date		19-Oct-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		Yes			
Superstructure General Rating			5	5	

Missing bolts all 4 corners @ transition to guardrail - photo.

W to E 1 & 10 (curb) diagonal cks at end of girder all spans est 200mm long.
 7 & 8 span long. cks on bottom length of girder & hairline.
 Center span lift pockets rusted, connections not visible.
 Connector pocket stains throughout.

Minor alignment 17mm worst case @ North pier, East side.

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : N)					
(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	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				7	7
(Type : CONCRETE)					
(Depth(mm) :)					
(Width(mm) : 500)					
Backwalls/Breastwalls			N	N	
Greatest Height (m)		1.00			
Wingwalls			7	7	
(Total Number of Bearing Piles : 0:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	100	0	0	0	
Now	100	0	0	0	
Piles			N	N	
Paint/Coating			X	X	
Abutment Stability			5	5	
Scour/Erosion			4	4	
North headslope scoured, minor. Minor scour around North pier.					
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	0	0	0	2	
Now	0	0	0	2	
Bearing Seats/Caps/Corbels				3	3
(Type : CONCRETE)					
(Depth(mm) : 640)					
(Width(mm) : 550)					
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles			7	7	
Greatest Height (m)		3.00			
Bracing/Struts/Sheathing			7	7	
Nose Plate			X	X	
Paint/Coating			5	5	
Some wear from ice at base. Corrosion at base of piles. Orange.					
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		4	4	Scour @ pier 2, minor. Piles & backwall @ North headslope.
Debris (Y/N)	Yes			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Cut banks 20m D/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	S hslp has interconnected concrete blocks & N is natural. S hslp settled & old piles poking up through blocks @ 2 locations. Erosion/scour N hslp. Heaving piles on S slope. Some erosion of N slope. Old sheeting at N hslp from old abut.
(Type : RIP RAP; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	2013	Install 12 bolts @ trans, corner connections.					
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	Place rock riprap at toe of N hslp.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Patch piers 0.2m (cubed) OH-V.					
OTHER ACTION	2013	Expose & cut-off heaved piles & reset concrete blocks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	52.6/52.2	Est. Repl. Yr	2040	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	19-Jul-2014		Previous Inspection Date	03-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							