

Bridge Inspection							
Bridge File Number	07765 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1971/1971			Lot No.	1		
Bridge or Town Name	CAROLSIDE			Inspector Name	Jason Saly		
Located Over	BERRY CREEK, 3.14, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	570:02 C1 15.315			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Nov-2010		
Legal Land Location	NW SEC 21 TWP 26 RGE 12 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-111:37:56, 51:14:22			Data Entry Date	06-Jan-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	11-Dec-2010		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	280 / 2009 (A)			Dept. Review Date	12-Jan-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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	Not required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks								
Other Sign Types	Curve sign West side - Max 85 km/hr.							

Utilities (Located at)			
Utility Attachments			
Telephone	S side.		Gas
Power	N side property line-2 wire.		Municipal
Others			Problem (Y/N) No
Remarks	Gauging station 30m N of property line.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curve both ends. Crest curve to the E, limited sight distance. No passing.
Vertical Alignment		5	5	
Roadway Width (m)	10.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	5.200			
Current Standard (Y/N)	Yes			
Termination Type	TURN DOWN ENDS			
Drainage		8	N	Snow covered.
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 10.1-10.1-10.1, 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.
Last	0	0	0	0	
Now	20.0	0.0	0.0	0.0	
Wearing Surface			X	7	10mm
(Material Type : CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			4	N	(Remnants of chipseal. Some abrasion from gravel. Numerous girders with edge spalls, worst is S3G6. 10Feb2009).
Deck Rideability			5	6	
Deck Joints			3	N	(Buffer angles. S2 G4 & G7 @ P2. S3G5 & G7 and Sp1 G5, G6 all missing angles. 10Feb2009). Joints covered by chipseal coat.
Bump (Y/N)		No			
Deck Drainage			7	N	Snow covered.
Drains Clogged (Y/N)		No			
Curbs/Median			7	N	Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Single layer. (1 loose A/B nut at Sp3 - north curb. 10Feb2009).
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	16	
Now	0	0	0	16	
Girders			3	3	16 girders with wide cracks or spalls in AZ Grout is cracked at 15 lift or connector pockets
Last Complete Inspection Date		27-Nov-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		Yes		10mm drop in Sp3 over P2 Pier 2 leans east approx 100mm.	
Horizontal (Y/N)		Yes			
Superstructure General Rating			3	3	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1500)					
(Total Number of Caps/Corbels : 3:3)					
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			6	6	
(Type : TREATED TIMBER)					
(Depth(mm) : 356)					
(Width(mm) : 305)					
Backwalls/Breastwalls			4	5	
Greatest Height (m)		1.46		1 pile wingwall. SE but is on inside of piles, void underneath, planks could be lower.	
Wingwalls			7	7	
			East abut breastwall not low enough		
(Total Number of Bearing Piles : 8:10)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles			7	7	
Paint/Coating			X	X	
Abutment Stability			7	7	
Scour/Erosion			4	5	
Piers/Bents					
(Type : PIER-COLUMN)					
Pier caps replaced.					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels			3	8	
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 356)					
(Total Number of Bearing Piles : 10:10)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	100	0	0	0	
Now	100	0	0	0	
Pier Shaft/Piles			N	N	
Greatest Height (m)		4.80		95% sheeted over - not visible	
Bracing/Struts/Sheathing			6	6	
Nose Plate			7	6	
Paint/Coating			4	4	
Rust at nose plate					
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		4	4	E pier leaning ~100mm.
Scour		N	N	Due to ice
Debris (Y/N)	No			
Substructure General Rating		3	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Bend at U/S end.
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Minor erosion at E hslp.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten loose nut, if not yet done.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2015	Assess for replacement vs. rehab					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/38.9	Sufficiency Rating (Last/Now) (%)	58.7/59.3	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Send email to Chris Black cc Rancy advising of rot found in pier.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Will likely require cap replacement by 2012. Service life of bridge would be extended if ACP overlay carried over bridge by 2012. With repairs Bridge should be adequate until 2020.CB						
On 3-Year Program (Y/N)	Y						
Proposed Action	Core caps and sheathed piles in 2009. Check connectors and repair as required in 2009.						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Feb-2014		Previous Inspection Date	10-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							