

Bridge Inspection									
Bridge File Number	08260 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1960/1999				Lot No.	3			
Bridge or Town Name	STRACHAN				Inspector Name	Owen Salava			
Located Over	PRAIRIE CREEK, 6.159.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	752:04 C1 11.147				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Feb-2012			
Legal Land Location	SE SEC 18 TWP 38 RGE 8 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-115:07:38, 52:15:39				Data Entry Date	06-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	22-Feb-2012			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	840 / 2010 (A)				Dept. Review Date	09-Mar-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	20								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> 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)	Yes								
Remarks	Offline & at varying heights.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas				
Power	2 lines South.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Hill to East. Approach NW, NE & SE corners. No passing in both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	8.900				SW 41.8m; NW 22.8m; NE 34.2m; SE 7.6m. SE does not meet standard due to approach, should have type IV radius.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	5					
Length (m)	7.600								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating			7	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 3 Spans, Lengths(m): 10.7-12.8-10.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Gravel along curbs.
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface			X	5	10mm
(Material Type : CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	N	9Hairline longit. cracking in 70% of girder tops - photo. 06Jul2005).
Deck Rideability			7	7	
Deck Joints			7	7	Buffer angles.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Double layer. Not spliced as per S-1405 but OK.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(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	8	0	0	0	
Now	0	0	0	0	
Girders			4	5	(Girder tops with hairline longit. cracks in 17/24 girders. 06Jul2005). (Connection pocket grout cracked - typ - photo. S2G4-5 top edge spalled - photo. 06Jul2005). Finish coating beginning to peel. Failed connections. Spot rust staining in bottom of S3G2 - photo.
Last Complete Inspection Date		09-Feb-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 24)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						
(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				8	8	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		1.00				
Wingwalls				X	X	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				4	5	
Paint/Coating				6	6	
Abutment Stability				7	7	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						
Double wide 310 x 94 HP each pier.						
(Total Number of Caps/Corbels : 2:2)						
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				8	8	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
(Total Number of Bearing Piles : 17:17)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	34	0	0	0		
Now	34	0	0	0		
Pier Shaft/Piles				N	N	
Greatest Height (m)		4.20				
Bracing/Struts/Sheathing				7	7	
Nose Plate				7	7	
Paint/Coating				6	4	
(Colour Description :)				Galvanized capitals & steel cap. Caps with light rust.		
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				High water knocked down trees in u/s channel.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		4	4	Steep banks d/s & u/s; failing to d/s.
HWM (m below Top of Curb)				(HWM over top of curb, evident by drift caught on bridgerail post - photo. 06Jul2005).
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	4	Previous report described HWM above curbs with drift caught in bridgerail post.
(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							
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							
INSTALL STRUTS							
OTHER ACTION	2012	Re-install hazard markers to meet standard.					
OTHER ACTION	2012	Install radius guardrail @ SE corner continuous with bridgerail.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	43.7/53.0	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Replace bridge by 2020 or earlier, depending on coring results. CB						
On 3-Year Program (Y/N)	Y						
Proposed Action	Core substructure in 2010. CB						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	09-May-2015		Previous Inspection Date	06-Jul-2005			
Inspection Cycle (Default) (months)	39						
Comment							