

Bridge Inspection											
Bridge File Number	00820 -1 Bridge				Form Type	PSR					
Year Built/Year Supstr	1997/1997				Lot No.	2					
Bridge or Town Name	CARSTAIRS				Inspector Name	Owen Salava					
Located Over	DOGPOUND CREEK, 3.89.8, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	580:02 C1 10.096				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	27-Oct-2011					
Legal Land Location	SE SEC 4 TWP 30 RGE 3 W5M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-114:21:25, 51:31:59				Data Entry Date	23-Nov-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA28				Review Date	10-Nov-2011					
Clear Roadway/Skew	9 / -30 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	1,220 / 2010 (A)				Dept. Review Date	24-Nov-2011					
Road Classification	RCU-208-110				Follow-Up By						
Detour Length (km)	10										
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	Not required.								

Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Too low.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w.				Gas	South side.			
Power	4 wires 18.0m north of c/l. 3 wires 10m South of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		9	9	On uphill grade to East, crest curve to East, no passing.	
Vertical Alignment		6	6		
Roadway Width (m)	8.500			Some settling of approaches.	
Approach Bump		5	5		
Guardrail (Y/N)	Yes				
Guardrail		5	5		
Length (m)	99.000			Not thrie beam.	
Current Standard (Y/N)	No				
Termination Type	Turn Down				
Drainage		3	3	Erosion under approach slab @ SW/NW. Depression in ACP @ curb - photo.	
Approach Road General Rating		6	6		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBC, 3 Spans, Lengths(m): 20-26-20, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Random hairline cracks. Silica fume. Cracks in paving lips.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			8	8	A1 & A2. Asphaltic Fibre Board - P1 & P2.
Temperature (deg. C)		1			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75		West abutment - A1			
58		East abutment - A2			
Deck Drainage			4	4	NW down drain broken - photo. Grass, dirt caught at drains (photo).
Drains Clogged (Y/N)		Yes			
Curbs/Median			7	7	Transverse cracks @ 1m spacing @ curb top & fascia and underside.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			9	9	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			9	9	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			9	9	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			9	9	
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 12)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBC, 3 Spans, Lengths(m): 20-26-20, A-Ident Number:)				
Diaphragms/Cross Frame		9	9	
Bearings		8	8	P1, P2 & A2. A1.
Temperature (deg. C)	1			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Minor hairline cracks mostly @ exterior of deck.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
Backwalls/Breastwalls		9	9	
Wingwalls		9	9	
Piles		N	N	
Paint/Coating		4	4	Graffiti @ West abutment and girder ends. Capseal cracking on wingwalls - photo.
Abutment Stability		9	9	
Scour/Erosion		9	9	
Piers/Bents				
(Type : PIER-COLUMN)				Capseal A50.
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				Concrete columns.
(Total Number of Bearing Piles : 3:3)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	Concrete bracing @ P1 only - photo.
Nose Plate		X	X	
Paint/Coating		4	4	P1 with graffiti, capseal map cracking on columns. Grey.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		9	9	
Debris (Y/N)	No			
Substructure General Rating		9	9	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)		No		
Slope Protection (Type : RIP RAP; RIP RAP)		8	8	Class II stream side at piers only, natural at abutments.
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
RESET/ PAINT BEARINGS							
WASHING	2012	Clean-out drains.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace NW down drain.					
OTHER ACTION	2012	Fill erosion @ SW/NW approach.					
OTHER ACTION	2012	Reinstall hazard markers to meet standard.					
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.					
Structural Condition Rating (Last/Now) (%)	94.4/94.4	Sufficiency Rating (Last/Now) (%)	77.7/77.5	Est. Repl. Yr	2064	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	27-Jan-2015		Previous Inspection Date	02-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							