

Bridge Inspection									
Bridge File Number	73982 -2 Bridge				Form Type	SG			
Year Built/Year Supstr	2009/2009				Lot No.	2			
Bridge or Town Name	BONANZA				Inspector Name	Brian Pientsch			
Located Over	HENDERSON CREEK, 8.10.97.8, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	719:02 C1 4.581				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Feb-2012			
Legal Land Location	NE SEC 29 TWP 79 RGE 12 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-119:49:47, 55:52:35				Data Entry Date	02-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA05				Review Date	27-Mar-2012			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	David Morrison			
AADT/Year	600 / 2011 (A)				Dept. Review Date	29-Aug-2012			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	32								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CL800						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	NW and SE corners.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w				Gas				
Power	Single wire West r/w				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	In sag curve. Signed for 80kph				
Vertical Alignment			6	6					
Roadway Width (m)	10.000								
Approach Bump			8	8					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	30.400								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			8	N	Gabion baskets NW ditch Snow covered.				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 26-31-26, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	30mm crack in ACP at N abut. and 20mm crack in ACP at S abut. Partly gravel covered.	
Last	5	0	0	0		
Now	50.0	0.0	0.0	0.0		
Wearing Surface				5	5	Lateral cks 6-8m intervals throughout ACP wearing surface.
(Material Type : MIX TYPE 1 ACP)						
(Thickness(mm) : 90)						
Deck Top				N	N	
Deck Rideability				8	8	
Deck Joints				N	N	
Temperature (deg. C)		-5				
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Deck Drainage				X	9	On vertical grade.
Drains Clogged (Y/N)						
Curbs/Median				8	N	Lateral cracking approx every 3.3m along face with efflorescence. Spalling on bottom side of curb at efflorescence or rust staining on East side from P1 to AZ1.-12-Apr-2011
(Curb Type : Standard)						
Scaling (Percent Area)						
				Snow covered.		
Bridge Rail				9	9	8 posts on East side with insufficient thread.
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4		4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		9		9		
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder/Beam						
Cover Plate				X	X	
Flange				9	9	
Web				9	9	
Stiffeners				9	9	
Splice				9	9	
Weld				9	9	
Diaphragms/Cross Frame				9	9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 26-31-26, A-Ident Number:)				
Paint Condition		7	7	Pigmented sealer weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		9	9	
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	3 minor spalls just NOrth of pier 1 East side due to efflorescence staining.
Stains (Percent Area)	5			
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				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
Backwalls/Breastwalls		9	9	
Wingwalls		9	9	
Piles		N	N	
Paint/Coating		9	9	
Abutment Stability		9	9	
Scour/Erosion		9	9	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		9	9	
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		9	9	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		9	9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		9	9	
Bank Stability		9	9	
HWM (m below Top of Curb)				No HWM visible
Drift (Y/N)	No			
Slope Protection		4	7	Rock from piers to channel, geotextile from abutments to pier, geotextile at A1 lifted - not adequately pinned.-photo Class 2 riprap
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair geotextile fabric at A1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	65.2/68.5	Est. Repl. Yr	2084	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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	28-May-2015		Previous Inspection Date	12-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							