

Bridge Inspection										
Bridge File Number	00181 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1984/1984				Lot No.	2				
Bridge or Town Name	BENTLEY				Inspector Name	Owen Salava				
Located Over	BLINDMAN RIVER, 3.78, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	12:08 C1 0.244				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	29-Aug-2012				
Legal Land Location	NW SEC 22 TWP 40 RGE 1 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:04:17, 52:27:53				Data Entry Date	17-Sep-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA19				Review Date	06-Sep-2012				
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	3,020 / 2011 (A)				Dept. Review Date	18-Sep-2012				
Road Classification	RAU-211.8-110				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:	MS300				----> 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)	No									
Remarks	Not required.									
Other Sign Types	Steam ID.									
Utilities (Located at)										
Utility Attachments										
Telephone	On South r/w boundary.				Gas					
Power	300m North				Municipal					
Others	Fiber optics in North row.				Problem (Y/N)	No				
Remarks										
Approach Road										
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>					
Horizontal Alignment			6	6	Stop sign & intersection to Hwy 20 200m West of structure horizontal curves on both ends. Hill to East.					
Vertical Alignment			6	6						
Roadway Width (m)	11.300									
Approach Bump			5	5						
Guardrail (Y/N)	Yes				Missing 4 splice bolts at NE.					
Guardrail			4	4						
Length (m)	25.600									
Current Standard (Y/N)	No				Not thrie-beam.					
Termination Type	TURNED DOWN									
Drainage			5	5						
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 14-18-14, A-Ident Number: A0968-01</b> )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			8	7	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>90</b> )					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			6	4	Section of cover plate in EBL at A2 loose & banging under traffic.
Temperature (deg. C)		21			
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
67		East abutment			
85		West abutment			
Deck Drainage			6	6	On slight grade.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Minor scrapes from plow blade at bottom. Cracking on outside of curb @ base of all rail posts.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 3 Spans, Lengths(m): 14-18-14, A-Ident Number: A0968-01</b> )				
Paint Condition		X	7	Lots of graffiti. Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		7	7	Rockers at piers.
Temperature (deg. C)	21			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	Narrow vertical cracking.
Wingwalls		6	6	Narrow cracking at NW corner.
Piles		N	N	
Paint/Coating		6	6	Lots of graffiti.
Abutment Stability		7	7	
Scour/Erosion		5	5	Settlement under East abutment, 200mm.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>4:4</b> )				
Pier Shaft/Piles		8	8	Minor crack approx. 150mm from south end of P2 extends across pier top.
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	Superficial corrosion near ground line. Minor peeling at surface finish at SE pier pile. Minor loss of coating at both ends of P2.
(Colour Description : <b>YELLOW</b> )				
(Colour Code : <b>13538</b> )				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Minor drift.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				90 deg. bends @ D/S end, 70 degree bend at U/S.
(D/S Direction : <b>S</b> )				
Alignment		5	5	
Bank Stability		5	5	Vertical banks, some slumping of banks at U/S.
HWM (m below Top of Curb)				HWM not visible. Minor drift at East pier.
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

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	2012	Tighten cover plate at A2.					
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	Fill void under East abutment cap, 1m3 pitrun.					
OTHER ACTION	2012	Install 4 additional splice bolts at NE guardrail.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.9/51.9</b>	Est. Repl. Yr	2045	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	2004.12.23 With new ACP Bridge should be good until 2025.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	29-May-2014		Previous Inspection Date	25-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							