

Bridge Inspection							
Bridge File Number	00962 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1962/1962			Lot No.	2		
Bridge or Town Name	NANTON			Inspector Name	Garry Roberts		
Located Over	LITTLE BOW RIVER, 2.12.12, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	533:04 C1 16.768			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	22-May-2010		
Legal Land Location	NW SEC 17 TWP 16 RGE 26 W4M			Data Entry By	Erin Roberts		
Longitude, Latitude	-113:32:38, 50:21:13			Data Entry Date	20-Jul-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA27			Review Date	02-Jun-2010		
Clear Roadway/Skew	7.9 /			Dept. Reviewer Name	Lorenz Bohnert		
AADT/Year	1,010 / 2009 (A)			Dept. Review Date	23-Jul-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 44 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 62 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		40.0
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) Yes
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) Yes
Remarks	Remove signs						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Narrow bridge						

Utilities (Located at)			
Utility Attachments			
Telephone	At south r/w.		Gas
Power	North 2-wire 20 m from CL.		Municipal
Others	Environment shed at NE. + SW		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	8	in sag curve.
Vertical Alignment		5	5	
Roadway Width (m)	8.000			Bolt is pulled through flexbeam at SW Not thriebeam
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN ENDS			
Drainage		4	4	Gap between transition curb & approach ACP at NE and NW
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 14.6-18.3-14.6, A-Ident Number: A0396-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			5	5	Some abrasion at high points, 20% of deck. Numerous transverse cracks showing through polymer overlay	
(Material Type : CONCRETE - UNKNOWN POLYMER OVERLAY)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			6	7		
Deck Joints			5	7		
Temperature (deg. C)		12				
(Expansion Type : SLIDING PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60		W. abut				
30		E. abut				
Deck Drainage			3	4	Deck joints allow water onto abuts & bearings - causing brg corrosion	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	3 rebar spalls- minor	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			3	7	Flex beam galvanized coating good. Paint over top 25% failed, posts painted - 5% superficial corrosion.	
(Type : FLEX BEAM)						
Bridge Rail Posts		7	6			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		4	4			
(Type : PAINT)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate		3	3	2 coverplate ends have small cracks on span 2 G1 East end plate 2 and span 2 East end plate 2- could not confirm at level 1 inspection		
Flange		7	7			
Web		7	7			
Stiffeners		7	7			
Splice		7	7			
Weld		3	3	2 coverplate welds cracked at ends		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 14.6-18.3-14.6, A-Ident Number: A0396-01)				
Paint Condition		4	4	Paint failed at abuts
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Touchup Required (Y/N)	No			
Bearings		4	5	Rockers @ Abuts Neoprene @ piers 30% corrosion with some pitting at abutments
Temperature (deg. C)	12			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Hairline cracks, some with minor stains at piers.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	8	
Bracing/Struts/Sheathing		7	X	
Nose Plate		7	7	
Paint/Coating		4	5	5% superficial corrosion at nose plates. Gray.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	8	
Scour		5	6	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)		No		
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Add washer to SW rail to post bolt					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2015	Replace all expansion bearings with neoprene pads- low priority					
REPAINT SUPERSTRUCTURE	2010	Re-coat abutment bearings					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Seal gap @ approach & curb NE 0.01m3 tar					
OTHER ACTION	2010	Confirm allowable load and change BIM form or remove loading signs.					
OTHER ACTION	2010	Repair 2 coverplate cracks					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	57.6/58.6	Est. Repl. Yr	2030	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	Randy Bredo		Previous Assistant's Name				
Next Inspection Date	22-Aug-2013		Previous Inspection Date	08-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							