

Bridge Inspection									
Bridge File Number	72400 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1985/1985				Lot No.	2			
Bridge or Town Name	BLUE RIDGE				Inspector Name	Wade Nanninga			
Located Over	CHRISTMAS CREEK, 8.11.101, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	658:02 C1 21.856				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	20-May-2010			
Legal Land Location	SE SEC 31 TWP 60 RGE 9 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:19:56, 54:13:39				Data Entry Date	19-Jul-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA12				Review Date	24-Jun-2010			
Clear Roadway/Skew	10 / -15 deg. (LHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	430 / 2009 (A)				Dept. Review Date	22-Jul-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	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	Not @ std location.								
Other Sign Types	"Christmas Creek"								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	2 wires 20m South of c/l.				Municipal				
Others	WSC station at SW.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Access road 30m North of bridge. Grade & curve South of bridge. No passing SB.				
Vertical Alignment			6	6					
Roadway Width (m)	10.000				Insufficient posts & length.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	11.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			4	4	Water leaks through NE & NW corners resulting in gully under NE cap. Scour hole at NW ditch.				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SM, 3 Spans, Lengths(m): 11-11-11, 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						
Wearing Surface			4	5	Cracked over all abutment / pier joints - photo. 30 + locations of rust staining from connector pockets all 3 spans. Longitudinal crack over center girder.	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	Yes					
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			N	N	Asphalt covered, leaking.	
Bump (Y/N)		No				
Deck Drainage			4	4	(Ponding on West curb - photo.01-Mar-2007) No deck drains. Erosion/settlement at abutment seats, rust/salt stains on abutment seats & girders plus salt damage at pier caps caused by poor deck drainage.	
Drains Clogged (Y/N)						
Curbs/Median			N	6		
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			8	8		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
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				1		
Now	0	0	0	1		
Girders			3	3	Active leaking between girders & at joints. S2G1/S3G1 & S3G9 (curb) has diagonal crack with rust staining <500mm long - photo. S2G1, S1G2 and S3G9 has a chip at lower corner.-50mm dia. S3G1 also has spall on outside of girder with exposed rebar.	
Last Complete Inspection Date		20-May-2010				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 27)						
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					
(Extended Backwall Piles (Y/N) :)					
(Extended Backwall Piles Spacing(mm) :)					
(Total Number of Caps/Corbels : :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels			7	7	
(Type : CONCRETE)					
(Depth(mm) :)					
(Width(mm) :)					
Backwalls/Breastwalls			6	6	
Greatest Height (m)		1.20			
Wingwalls			7	7	
(Total Number of Bearing Piles : 0:0)			HP buried.		
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	1	0	0	0	
Piles			N	N	
Paint/Coating			5	5	
Abutment Stability			7	7	
Scour/Erosion			4	4	
Settlement of fill under North cap. Gully @ NE under cap - photo.- void 300mm deep.					
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	1	
Bearing Seats/Caps/Corbels			4	3	
(Type : CONCRETE)					
(Depth(mm) : 350)					
(Width(mm) : 300)					
Spalling with exposed rebar & cracking on East end of North pier cap. Vertical medium cracks over piles.-photo Wide longitudinal cracks along bottom of cap					

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				7	7	
Greatest Height (m)		3.70				
Bracing/Struts/Sheathing				8	8	
Nose Plate				X	X	
Paint/Coating				4	3	50% paint failure on pier piles - photo. Cap seal peeling on pier caps - photo.
(Colour Description :)						
(Colour Code :)						
Pier Stability				8	6	
Scour				7	7	
Debris (Y/N)		No				
Substructure General Rating				4	3	
Structure Usage						
				Last	Now	Explanation of Condition
Channel						
(U/S Direction : W)						
(D/S Direction : E)						
Alignment				8	8	
Bank Stability				7	7	
HWM (m below Top of Curb)						HWM not visible.
Drift (Y/N)		No				
Slope Protection				5	5	
(Type : GRAVEL)						
Guidebank/Spurs				X	X	
Adequacy of Opening				8	8	
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating				5	5	

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	2010	Patch S3G1 abd E end of N pier cap.					
OTHER ACTION	2010	Paint piles.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	49.8/47.8	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking, gully @ NE.		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	20-Aug-2013		Previous Inspection Date	01-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							