

Bridge Inspection							
Bridge File Number	00904 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1954/1954			Lot No.	4		
Bridge or Town Name	TWIN BUTTE			Inspector Name	Jason Rusu		
Located Over	DRYWOOD CREEK, 2.12.22.5.14, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	6:04 C1 21.229			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	30-Oct-2011		
Legal Land Location	NW SEC 17 TWP 4 RGE 29 W4M			Data Entry By	Erin Roberts		
Longitude, Latitude	-113:52:26, 49:18:05			Data Entry Date	29-Nov-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA26			Review Date	12-Nov-2011		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	1,010 / 2010 (A)			Dept. Review Date	01-Dec-2011		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 72 GIRDER	Semi	CS2 94 GIRDER	Train	CS3 112 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		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 req.						

Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Sharp curve, steep grade, 85 km/hr advisory. Drywood Creek.						

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	South ditch & under South curb.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Sharp curves, 300m sight distance from North; 85 km/hr. Hill both directions.
Vertical Alignment		5	5	
Roadway Width (m)	9.700			New pavement
Approach Bump		5	8	
Guardrail (Y/N)	Yes			
Guardrail		6	7	
Length (m)	34.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		6	7	
Approach Road General Rating		4	4	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 15.2-24.4-15.2, A-Ident Number: A0190-01;A0190-02;A0190-03)						
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	9	New deck.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	8		
Deck Joints			5	4	Joints not installed yet	
Temperature (deg. C)		7				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		W. abut				
75		W. pier				
75		E. pier				
73		E. abut				
Deck Drainage			5	8		
Drains Clogged (Y/N)		No				
Curbs/Median			3	9		
(Curb Type : Standard)						
Scaling (Percent Area)						
Bridge Rail			5	9	New bridge rails	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		5	9			
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating		5	9			
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	7	Noticeable sag middle span - 30mm.	
Flange			7	7		
Web			7	7		
Stiffeners			X	X		
Splice			X	X		
Weld			6	6		
Diaphragms/Cross Frame			5	5	Diaphragms are steel angles encased in in concrete. Concrete had delaminated along bottom flange on 20% of end diaphragms. Diaphragms cracked @ 3 @ East pier. Diaphragm deflects have been marked for repair by "Getuate' contractors	

Superstructure				
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(Primary Span : RB, 3 Spans, Lengths(m): 15.2-24.4-15.2, A-Ident Number: A0190-01;A0190-02;A0190-03)				
Paint Condition		7	7	Rust spots on bottom of girders on ext fascia approx 2% area.
(Colour Description : GREEN)				
(Colour Code : ; 14090)				
Touchup Required (Y/N)	No			
Bearings		6	6	At piers At abuts
Temperature (deg. C)	7			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Narrow longitudinal and transverse cracks. White stains through cracks under gutters.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Medium to wide cracks both caps on sides and bottoms. Scaling on ends. Worst is SE & NE Marked for repair.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 3:3)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	Not coated. Old stains down sides.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	Class 2 riprap @ South end of West pier.
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Flows against West pier.
(D/S Direction : N)				
Alignment		5	5	
Bank Stability		5	5	Vertical banks U/S & D/S.
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	Class II rock West pier.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	56.4/57.4	Est. Repl. Yr	2050	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Rehab repairs not yet complete in 2011		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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-Jul-2013		Previous Inspection Date	19-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							