

Bridge Inspection							
Bridge File Number	09162 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1971/1971			Lot No.	1		
Bridge or Town Name	WATTS			Inspector Name	Jason Saly		
Located Over	BULLPOUND CREEK, 3.17, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	855:02 C1 1.473			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	16-Jun-2010		
Legal Land Location	NW SEC 16 TWP 31 RGE 15 W4M			Data Entry By	Jill Potts		
Longitude, Latitude	-112:05:02, 51:39:44			Data Entry Date	02-Jul-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	24-Jun-2010		
Clear Roadway/Skew	10.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	120 / 2009 (A)			Dept. Review Date	06-Jul-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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								
Hazard Marker At Bridge (Y/N)			Yes					
Remarks			Marker @ NW missing. All posts attached with wire.					
Other Sign Types			Railway crossing south of bridge.					

Utilities (Located at)				
Utility Attachments				
Telephone	West right of way.		Gas	East right of way 20m.
Power	1 wire 25m East r/w.		Municipal	
Others	Stream gauge stn NE of bridge.		Problem (Y/N)	No
Remarks				
I.C.G. utilities. 1-800-242-3447				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Approach road 10m NW of structure. R.O.W. crossing 30m South of structure. Grade increases both ways.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			Slightly rough patch North approach, oilbound.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Insufficient length & post/spacing. Minor creasing, still functional.
Guardrail		7	5	
Length (m)	8.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
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					
Wearing Surface			5	5	(Minor abrasion present. 00/12/05) Paved over with cold mix, stops short of curb by 600mm both sides.
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 30)					
Lateral Connection Problem (Y/N)					
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			X	X	Buffer angles, paved over.
Bump (Y/N)					
Deck Drainage			7	7	
Drains Clogged (Y/N)			No		
Curbs/Median			4	3	Spalls @ corners due to graders. Spalled East fascia exposing rebar. Lift pocket patches deteriorated, holding water.
(Curb Type : Standard)					
Scaling (Percent Area)			10		
Bridge Rail			5	5	Single layer. Weak splice and missing 7 splice bolts, typical.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	7	
(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)	To much water under the bridge, unable to view the girder.
Last					
Now	11				
Girders			N	N	(South end of approx 3-4 girders in NBL are not pinned, cantilevered 150mm past end of cap - photo. Typical flexural cracks G5 spall in AZ East leg North abutment - photo. No keepers on cap to keep girders from spreading apart. No action required @ this time for cracked girder legs. 15/11/03) Lift hook pocket in curb not grouted.
Last Complete Inspection Date					
Cracking (Y/N)			Yes		
Spalling (Percent Area)			1		
Lift or Connector Pocket Grouted (Y/N)			No		
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)			No		
Horizontal (Y/N)			Yes		
Superstructure General Rating			3	3	G.R. carried forward.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	10					
Bearing Seats/Caps/Corbels				5	N	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
Backwalls/Breastwalls				6	N	
Greatest Height (m)		2.80				
Wingwalls				6	6	
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	18					
Piles				5	N	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				N	N	
(Minor scour under bridge. 00/12/05)						
Piers/Bents						
(Type :)						
(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				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				5	5	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
7 - 150 x 200.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			One old pile in streambed.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Streambed turns sharp left @ west side of bridge, crosses R/R bed.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	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							
SEAL CURBS	2010	Patch East curb.					
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	Install missing bridge rail bolts (7).					
OTHER ACTION	2010	Re-install NW hazard marker.					
OTHER ACTION	2010	Treat/band split pile (3). If not yet done.					
OTHER ACTION	2010	Grout curb lift pockets.					
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	65.4/65.4	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider upgrading guardrail & bridgerail.		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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	16-Sep-2013		Previous Inspection Date	23-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							