

Bridge Inspection							
Bridge File Number	06732 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1956/1956			Lot No.	2		
Bridge or Town Name	WATTS			Inspector Name	Jason Saly		
Located Over	WOLF CREEK, 17.1, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	855:02 C1 7.525			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	16-Jun-2010		
Legal Land Location	NW SEC 4 TWP 32 RGE 15 W4M			Data Entry By	Jill Potts		
Longitude, Latitude	-112:05:02, 51:42:60			Data Entry Date	01-Jul-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	24-Jun-2010		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	120 / 2009 (A)			Dept. Review Date	09-Jul-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 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		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								
Other Sign Types			CP 302 south east corner of guard.					

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West curb 2 lines, 1 not attached.		Gas
Power	1 wire East fenceline.		Municipal
Others			Problem (Y/N) Yes
Remarks Telus 1 line new plastic pipe, span 3 laying on cap ends - photo.			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	8	Field approach 124m north of bridge. Crest to North.
Vertical Alignment		7	7	
Roadway Width (m)	9.000			Oil bound.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Insufficient post/spacing & length.
Guardrail		7	6	
Length (m)	11.900			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	6	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>PG, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number: )</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>					
Wearing Surface			X	X	
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			4	3	Spalled corners and edges with exposed rebar. Top of precast. Lift pockets holding water.
Deck Rideability			5	5	
Deck Joints			4	4	Some ends missing angle iron, no formal deck joints.
Bump (Y/N)		No			
Deck Drainage			7	7	Drains between girders.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Minor damage at southwest & Southeast corner with exposed rebar. Lift pockets not grouted.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		15			
Bridge Rail			5	5	Single layer. Weak splice.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	6	Posts installed on flat.
(Type : <b>TREATED TIMBER;TREATED TIMBER</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					
Girders			4	4	(S3G4 medium longitudinal crack outside AZ in East leg. Spalled girder end on most girders over piers - photo. 23/Mar/2007) Lift hook pockets filled with tar and is coming out exposing the bars. Spall West girder on the South span in AZ. Rating carried forward due to spalled ends but could not inspect due to mud and space available.
Last Complete Inspection Date		23-Mar-2007			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : <b>36</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>4</b>	

Substructure										
Bridge Component	Last	Now	Explanation of Condition							
<b>Abutments</b>										
(Extended Backwall Piles (Y/N) : <b>N</b> )	All abutment piles anchored with clamp/scabs except end pipe at each corner. Bridge raised.									
(Extended Backwall Piles Spacing(mm) : )										
(Total Number of Caps/Corbels : <b>3:3</b> )	300 x 350 cap on plywood shims for crown on 300 x 300 caps.									
Bearing Seats/Caps/Corbels Detail Ratings										
						N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>						0	0	0	0	
<b>Now</b>										
Bearing Seats/Caps/Corbels						6	5			
(Type : <b>TREATED TIMBER</b> )										
(Depth(mm) : <b>300</b> )										
(Width(mm) : <b>350</b> )										
Backwalls/Breastwalls										
	6	6								
Greatest Height (m)	1.70									
Wingwalls										
	4	4	SE wing pile split, tin cap off.							
(Total Number of Bearing Piles : <b>8:8</b> )										
Piles Detail Ratings										
						N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>						0	0	0	0	
<b>Now</b>										
Piles						5	5			
Paint/Coating						X	X			
Abutment Stability						7	7	Clamps too high on piles.		
Scour/Erosion						5	5	Minor scour at North headslope, no action at this time.		
<b>Piers/Bents</b>										
(Type : <b>PIER-COLUMN</b> )										
Bridge raised and widened 350 x 300 cap on plywood crown on 350 x 300 cap. All caps covered with Petro Tac.										
(Total Number of Caps/Corbels : <b>3:3</b> )										
Bearing Seats/Caps/Corbels Detail Ratings										
	N (count)	1 (count)	2 (count)	3 (count)						
<b>Last</b>	0	0	0	0						
<b>Now</b>										
Bearing Seats/Caps/Corbels	7	7								
(Type : <b>TREATED TIMBER</b> )										
(Depth(mm) : <b>300</b> )										
(Width(mm) : <b>350</b> )										
(Total Number of Bearing Piles : <b>8:8</b> )	Vertical split piles: P1P1, P1P7, P2P2 & P2P3. No problems. 1 old pile heaved onto bracing at pier 1. Based on previous inspectors comments due to water levels. Only tops of piles visible.									
Piles Detail Ratings										
						N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>										
<b>Now</b>						16				
Pier Shaft/Piles						4	4			
Greatest Height (m)						2.00				
Bracing/Struts/Sheathing										
						5	5			
Nose Plate										
	X	X								
Paint/Coating										
	X	X								
(Colour Description : )										
(Colour Code : )										

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	6	
Scour		N	N	Water covered.
Debris (Y/N)	No			Old piles in streambed.
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Bend at U/S and D/S end.
(D/S Direction : <b>E</b> )				
Alignment		5	5	
Bank Stability		8	7	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</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							
SEAL CURBS							
PATCH DECK	2010	Patch spalls along girder tops.					
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							
OTHER ACTION	2010	Advise Telus to relocate utility.					
OTHER ACTION	2010	Grout girder lift pockets.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.8/61.8</b>	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	(Bridge built in July of 1956. Repair raised & widened on Nov/87. This included new piles at outside each pier, new caps throughout, 2 new precast units per span & a new galv rail on treated timber posts. The normal life of 50 to 55 years is all we can reasonably expect before rot gets into the piles which leaves roughly 17 years. Considering the rating of piles & new caps the inspector estimate of 30 years possible. Please check Telus conduit attachment @ next inspection. New cable runs through conduit attached to bridge. Loose cable old/temporary. Monitor girder spalls on deck, monitor SE wing pile. 00/12/05) Consider lowering backwall clamp/scabs @ abutment piles & installing clamps on corner piles @ major rehab. Hold off on all repairs until significant work if required. RB		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							