

Bridge Inspection							
Bridge File Number	00913 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1972/1972			Lot No.	1		
Bridge or Town Name	HARTELL			Inspector Name	Jon Davies		
Located Over	TONGUE CREEK, 2.13.27.5, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	543:02 C1 4.789			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	09-Mar-2013		
Legal Land Location	SE SEC 14 TWP 19 RGE 2 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-114:09:52, 50:36:04			Data Entry Date	29-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA27			Review Date	17-Mar-2013		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	1,360 / 2011 (A)			Dept. Review Date	08-Apr-2013		
Road Classification	RCU-208-110			Follow-Up By			
Detour Length (km)	6						
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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	WB	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	
Other Sign Types	None.

Utilities (Located at)			
Utility Attachments			
Telephone	South ROW.	Gas	
Power	North ROW.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Hill to East and intersection. 40m East.
Vertical Alignment		5	5	
Roadway Width (m)	8.300			Not thriebeam.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	5	
Length (m)	7.600			
Current Standard (Y/N)	No			
Termination Type	TURNDOWN ENDS			
Drainage		5	5	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, 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>	0.0	0.0	0.0	10.0	
Wearing Surface			6	3	girder outline and raveling at full depth to possible edge spalls of girders. Full length at center line up to 250mm wide.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	4	Rough surface.
Deck Joints			N	N	ACP covered. Minor bump at A1.
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Exterior curb face. At 5 locations up to 600mm long 300mm wide at full depth.  Some minor spalling on curb face
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			6	5	Single layer- minor collision damage at NE.  Minor collision damage with post bases not sitting flush adjacent to ext. Curb spalls at North. Sp2- posts 1 and 2 and Sp3- Posts 2,3 and 4.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	5	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	11	0	0	1	
Girders			4	3	Span 2 inaccessible due to thin ice. 12 girders with narrow shear cracks. 6 girders with wide cracks or spalls in AZ in 1 leg only. Sp3-G6 wide cracks in AZ with unsound concrete and spall at A1 and wide cracks in AZ both legs unconfirmed sound at P2. Mid span spalls with reinforcing steel 50% exposed in 2 girders.
Last Complete Inspection Date		16-Dec-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>3</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 355)						
(Width(mm) : 300)						
Backwalls/Breastwalls			6	4		
Greatest Height (m)		2.00				
Wingwalls			X	X		
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				5	5	
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 355)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				5	4	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing			4	5		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	
Scour		5	N	P.R 5.
Debris (Y/N)	Yes			Old piles in channel.
<b>Substructure General Rating</b>		<b>5</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				U/s channel aligned to hit pier 2 & A2 which results in strong back East DDY at A1.
(D/S Direction : <b>N</b> )				
Alignment		5	4	
Bank Stability		5	4	Bank is under cut at SW extending 10m U/S from A1 headslope.
HWM (m below Top of Curb)	0.5			No HWM visible.
Drift (Y/N)	No			
Slope Protection		5	4	Incomplete at A1. Planking displaced at A1 retaining wall.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2013	Repair ACP wearing surface only relative to replacement year 30m X 9m of 50mm ACP.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.7/57.5</b>	Est. Repl. Yr	2015	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	Rex Davidson		Previous Assistant's Name				
Next Inspection Date	09-Jun-2016		Previous Inspection Date	16-Dec-2009			
Inspection Cycle (Default) (months)	39						
Comment							