

Bridge Inspection										
Bridge File Number	76301 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1977/1977				Lot No.	2				
Bridge or Town Name	GWYNNE				Inspector Name	Owen Salava				
Located Over	PIPESTONE CREEK, 5.47, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	13:10 C1 8.771				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	27-Jun-2012				
Legal Land Location	SW SEC 25 TWP 46 RGE 23 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:12:50, 52:59:39				Data Entry Date	15-Jul-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA17				Review Date	05-Jul-2012				
Clear Roadway/Skew	13.6 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	3,820 / 2011 (A)				Dept. Review Date	19-Jul-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member			
Design Loading:	HS25						---> 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	Posting not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Markers not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	Plowed in South ditch.				Gas					
Power	4 wires OH 250 m North of c/l.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Hwy 822 intersection approx. 100m East. Long grade to East; long curved grade to West.					
Vertical Alignment		6	6						
Roadway Width (m)		14.400		Not thrie beam.					
Approach Bump		7	7						
Guardrail (Y/N)		Yes							
Guardrail		7	7						
Length (m)		69.600							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		4	4	Water off deck flows under approach slabs through gaps along curb / ACP approach Small gaps / hole between curb / approach ACP - typ all corners.					
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : LF, 1 Spans, Lengths(m): 32, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		8	8	Underslung beams. Dywidag post tensioning at abuts.	
(Type : <b>EXT LATER POST TENS</b> )					
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	0.0	
Wearing Surface		4	4	Chipseal on polymer epoxy on HDC.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )		Estimate 18 x 2 has peeled off			
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7		
Temperature (deg. C)		16			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
40		E. abut			
65		W. abut			
Deck Drainage		7	7	6 retrofit drains	
Drains Clogged (Y/N)		No			
Curbs/Median		5	5	Spall at SE cover plate.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail		7	7	Grout under 152 x 152 mm HSS posts is deteriorating @ 8 / 34 locations - photo. Rusting under most base plates.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		3	3		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		4	4		
(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>	0	0	0	0	
Girders		5	5	Typical chamfer cracks - marked at G9 - NW	
Cracking (Y/N)		Yes		Narrow longit. cracks in G8 of both legs @ E abut and in one leg at W abut.	
Spalling (Percent Area)		0		Vertical crack at G1 E end. G9 at A1 small exterior spalls.	
(Number Of Girders : <b>9</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : LF, 1 Spans, Lengths(m): 32, A-Ident Number: )				
Diaphragms/Cross Frame		8	8	
Bearings		7	7	
Temperature (deg. C)	16			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	Tar
Abutment Stability		8	8	
Scour/Erosion		6	6	Erosion developing under NE drain - minor.
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</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>7</b>	<b>7</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	RegROUT bridgerail post grout pads. When post is removed, apply corrosion barrier product.								
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK	2012	Approx 56m2 epoxy membrane								
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Seal gaps/holes along approach slabs/curbs.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/63.9</b>	<b>Est. Repl. Yr</b>	<b>2037</b>	<b>Maint. Req'd. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	Department Comments		Date		Estimated Total		0			
Maintenance Reviewed By	2007.04.07 Second generation rehab in about 2020. With normal maintenance bridge should be good until 2060.									
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	27-Mar-2014	Previous Inspection Date	30-Aug-2010							
Inspection Cycle (Default) (months)	21									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	RegROUT bridgerail post grout pads. When post is removed, apply corrosion barrier product.	Completed 2012			
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2012	Approx 56m2 epoxy membrane	Defer			
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Seal gaps/holes along approach slabs/curbs.	Completed 2012			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/63.9</b>	Est. Repl. Yr	2037	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Glands flooded in 2012 and do not leak.		
Maintenance Reviewed By	Andrew Smikles	Date	23-Aug-2012	Estimated Total	0	
Proposed Long-Term Strategy	2007.04.07 Second generation rehab in about 2020. With normal maintenance bridge should be good until 2060.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava	Previous Assistant's Name				
Next Inspection Date	27-Mar-2014	Previous Inspection Date	30-Aug-2010			
Inspection Cycle (Default) (months)	21					

Comment	
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