

Bridge Inspection							
Bridge File Number	73546 S-2 Bridge			Form Type	PCS		
Year Built/Year Supstr	1961/1961			Lot No.	2		
Bridge or Town Name	STIRLING			Inspector Name	Jason Rusu		
Located Over	TRIBUTARY TO KIPP COULEE, 11.9.6.2, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	4:04 L1 32.427			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	23-Mar-2013		
Legal Land Location	NW SEC 22 TWP 6 RGE 19 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-112:29:35, 49:29:37			Data Entry Date	11-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24			Review Date	07-Apr-2013		
Clear Roadway/Skew	13.7 / -3 deg. (LHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	2,570 / 2012 (A)			Dept. Review Date	22-Apr-2013		
Road Classification	RFD-412.4-130			Follow-Up By			
Detour Length (km)	1						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 66 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)	No						
Remarks	Not req.						
Other Sign Types	Yellow diamond reflective signs instead of standard hazard markers.						

Utilities (Located at)			
Utility Attachments	POWER UTILITIES-POWER LINE		
Telephone	East Row		Gas
Power	5 wires 100m East & crosses 150m North.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	99m to North. Missing 7 splice bolts at SW Not thriebeam
Vertical Alignment		9	9	
Roadway Width (m)	12.400			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>9</b>	<b>9</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 1 Spans, Lengths(m): 6.1, A-Ident Number: )					
<b>Special Features</b>					
Special Feature					
(Type : )					
Special Feature					
(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	ACP is missing for 500mm on either gutter- 1.5m at East. 25mm thick ACP on 100mm concrete overlay.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N	Paved over	
Deck Rideability		7	7		
Deck Joints		X	X		
Bump (Y/N)		No			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		7	7		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail		4	4	Missing 4 splice bolts at SE  One nut missing @ west at post # 2 and 1 nut not tight at post #3. 5% superficial corrosion.	
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts		3	3		
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating		4	4		
(Type : <b>PAINT</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		4	4	Girder #2 from the West has spall & wide longitudinal crack in 1 web in AZ. Other than this defect all other girders rate 7.	
Last Complete Inspection Date		23-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>16</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) : Y)					
(Extended Backwall Piles Spacing(mm) : 2000)					
(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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			4	4	Hole @ bottom @ South minor fill coming through. Driven Sheathing.
Greatest Height (m)		5.00			
Wingwalls			5	5	Wings still retain fill. Rot @ top of wing planks.
(Total Number of Bearing Piles : 11:11)					
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				7	7
Scour/Erosion				N	N
Ice covered channel					
<b>Piers/Bents</b>					
(Type : )					
(Total Number of Caps/Corbels : )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
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)	
<b>Last</b>					
<b>Now</b>					
Pier Shaft/Piles				X	X
Greatest Height (m)					
Bracing/Struts/Sheathing				X	X
Nose Plate				X	X
Paint/Coating				X	X
(Colour Description : )					
(Colour Code : )					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Old piles under bridge not affecting flow.
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection		6	7	
(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>6</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 22mm nut @ west bridgerail post and tighten 1 other nut. Install missing splice bolts.					
SEAL CURBS							
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	2013	Patch south backwall - 300 x 300 x 100 TT plank.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.0/64.1</b>	Est. Repl. Yr	2025	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	23-Dec-2014		Previous Inspection Date	17-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							