

Bridge Inspection											
Bridge File Number	81874 -1 Bridge					Form Type	SG				
Year Built/Year Supstr	1998/1998					Lot No.	2				
Bridge or Town Name	STONY PLAIN					Inspector Name	Kris Bosters				
Located Over	16:14 R1 14.686;16:14 L1 14.695					Inspector Class	BR CLS A				
Located On	779:02 L1 12.848;779:02 R1 12.848					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	18-Oct-2012				
Legal Land Location	NW SEC 12 TWP 53 RGE 28 W4M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:00:01, 53:34:09					Data Entry Date	23-Oct-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA11					Review Date	22-Oct-2012				
Clear Roadway/Skew	14.7 / 12 deg. (RHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	8,720 / 2011 (A)					Dept. Review Date	13-Nov-2012				
Road Classification	RCU-211.0-110					Follow-Up By					
Detour Length (km)	10										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750										----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 16 L1 5.5m, 16 R1 5.5m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.5	In Advance (Y/N)	Yes
Remarks												
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 required.									

Hazard Marker At Bridge (Y/N)	Yes											
Remarks	Not required. SE & NW only.											
Other Sign Types	Information.											

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power						Municipal						
Others	Street lighting, approach corners & on pier.					Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Typical grade separation. Long curve at both ends.
Vertical Alignment		7	7	
Roadway Width (m)	12.700			14.7m at bridge & tapers to 12.7m.
Approach Bump		7	5	Minor ACP delam @ North abutment of SBL. Wide cracks in approach ACP.-photo
Guardrail (Y/N)	Yes			Not thrie beam transition.
Guardrail		7	7	Split post NW
Length (m)	21.800			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	4	Erosion holes @ NE & NW corners along wingwalls. Approach runoff not captured by concrete down drain. Sw drain spalling 300mm of wall broken.

Approach Road					
		Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>		7	7		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 2 Spans, Lengths(m): 40.9-40.9, A-Ident Number: A1444-01</b> )					
Special Features					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface		4	4	Random map cracks, some not sealed. Small pot holes at a few locations.-photo ACP is ravelling at joints.-photo	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		6	6	Paving lip surface scaling.	
Temperature (deg. C)		5			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
100		North abutment			
111		South abutment			
Deck Drainage		4	6	Melting / freezing snow @ curbs creating hazard - photo. -11-Dec-2008	
Drains Clogged (Y/N)		No			
Curbs/Median		6	6	Typical narrow cracks @ 0.7m spacing. Narrow transverse cracks on bottom of exterior curbs over pier with staining. Inside face.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		8	8		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		8	8		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		8	8		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		X	X		
Flange		9	9		
Web		9	9		
Stiffeners		9	9		
Splice		9	9		
Weld		9	9		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 40.9-40.9, A-Ident Number: A1444-01</b> )				
Diaphragms/Cross Frame		9	9	
Paint Condition		X	X	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	Abutment A/B are slightly bent towards pier, minor. Snooper required to inspect pier bearings. Fixed at piers
Temperature (deg. C)	10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Random hairline transverse crack with efflorescence staining. Narrow transverse cracks @ 900mm o/c under curb.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</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	Narrow vertical cracks.
Wingwalls		6	6	Narrow map cracks at all wingwalls.
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		8	8	
Scour/Erosion		4	4	200mm deepx200mm wide erosion gullies along NE & NW wingwalls.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Hairline map cracking.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>3</b> )				3 concrete columns.
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	8	Cap seal. Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	Typical interface with on/off ramps.
Traffic Safety Features		4	4	In median only. 1 broken post N rail.-photo
Type	Guardrail			
Slope Protection		5	5	(Bottom of NE curb spalled - no problem. Top of North concrete slope protection separated from breastwall ~10mm breaking seal.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		8	8	Drain pipe outlet broken at NE, void in concrete allows water under slope protection.-photo
Drainage		8	8	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Patch ACP, seal cracks.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Repair erosion along NE/NW wingwalls, stop runoff running past down drains.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch concrete slope protection where NE drain pipe broken.					
OTHER ACTION	2013	Replace broken median rail post.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.5/61.5</b>	Est. Repl. Yr	2052	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	18-Jul-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							