

Bridge Inspection											
Bridge File Number	00570 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1981/1981				Lot No.	2					
Bridge or Town Name	NAMA0				Inspector Name	Kris Bosters					
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	28:02 C1 10.200				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	27-Mar-2012					
Legal Land Location	SW SEC 10 TWP 55 RGE 24 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-113:29:46, 53:43:53				Data Entry Date	04-Apr-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA09				Review Date	04-Apr-2012					
Clear Roadway/Skew	12.5 / 40 deg. (RHF)				Dept. Reviewer Name	Brent Herrick					
AADT/Year	7,250 / 2011 (A)				Dept. Review Date	11-Apr-2012					
Road Classification	RAU-213.4-110				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:	MS230									----> 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'd.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	Not to std height/location, NE leaning.									
Other Sign Types										

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	West & East r/w.				Gas					
Power	2 line East r/w.				Municipal					
Others					Problem (Y/N)		No			
Remarks										

Approach Road										
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>					
Horizontal Alignment			7	7	Approaches to SE & SW. Hills to North and South.					
Vertical Alignment			7	7						
Roadway Width (m)	13.400				ACP cracked and ravelling along S joint paving lip.-photo					
Approach Bump			6	6						
Guardrail (Y/N)	Yes									
Guardrail			7	7	Transition sections do not meet standard. SE - 94.5m, SW - 98.3m, NW - 60.3m, NE - 60.3m					
Length (m)	53.200									
Current Standard (Y/N)	No									
Termination Type	Turned Down									
Drainage			3	3	Holes in ACP along approach curbs-drainage going under approach slabs-SE,NE,&SW.-photo Drain trough at NE cracked at repair.					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 17-21-17, A-Ident Number: A0866-01</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>					
<b>Now</b>					
Wearing Surface			5	5	Transverse hairline to medium cracks every approx 1.0m. Small delam at c.1. new S abutment joint.
(Material Type : )					
(Thickness(mm) : )					
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			2	4	Slopping under traffic. Cracks from post anchor medium and cracking bolts on exterior curb. Staining on exterior. Finger plate joints pound under truck traffic. 8 fingers near CL at S joint have raised up 20mm. 1 finger is broken.-photo Fingers are not centered.
Temperature (deg. C)		5			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>BUFFER ANGLES</b> )					
Gap Size (mm)		Gap Location			
50		South abutment			
20		North abutment			
Deck Drainage			3	3	SW deck drain empties onto headslope. NW down drain is missing extension. Extension from wingwall fallen off @ NE.-photo SW ext. from wingwall rust thru-photo
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Chip on curb exposing waterstop at NW,SE & SW piers. SW curb cracked. NE curb section delam exposing waterstop. Cracked SE Abutment joint curb cover plate.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	20% of post grout pads spalled (photo).
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		7	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate		X	X	Welds that are visible are good.8	
Flange		8	8		
Web		8	8		
Stiffeners		8	8		
Splice		8	8		
Weld		8	8		
Diaphragms/Cross Frame			8	8	Centerspan not accessible.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 3 Spans, Lengths(m): 17-21-17, A-Ident Number: A0866-01</b> )				
Paint Condition		7	5	Weathering steel. Flaking rust at ends of girders and diaphragms near bottom flange.- photo
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		3	3	1 nut loose North abutment, 17 anchor bolts on South abutment need 2 1/2" nuts, some missing 1 or 2 nuts, some loose. Bending anchor bolts some bolts sheared (7) - photo.
Temperature (deg. C)	6			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Hairline to narrow transverse cracks.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	Random narrow map cracks.
Piles		N	N	
Paint/Coating		5	4	40% is peeling.
Abutment Stability		4	4	Movement shearing off anchor bolts and closed N. joint.
Scour/Erosion		5	5	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Steel column filled with concrete.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>7:7</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		5	5	Lower metre is down to primer.
(Colour Description : <b>YELLOW</b> )				
(Colour Code : <b>13538</b> )				
Pier Stability		8	8	
Scour		6	6	Rock rip rap at toe.
Debris (Y/N)	Yes			Beaver dam under bridge.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				Stream curves to West approx 50m.
(D/S Direction : <b>W</b> )				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible. Minor drift.
Drift (Y/N)	Yes			
Slope Protection		5	4	0.5x0.2x10.0m (wxdl) erosion gully NW headslope.
(Type : <b>GRAVEL; GRAVEL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		5	4	



On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	
Next Inspection Date	27-Dec-2013	Previous Inspection Date	22-Jun-2010
Inspection Cycle (Default) (months)	21		
Comment			