

Bridge Inspection										
Bridge File Number	07931 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1970/1970				Lot No.	2				
Bridge or Town Name	ST. LINA				Inspector Name	Wade Nanninga				
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	867:02 C1 26.717				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	14-Dec-2012				
Legal Land Location	SW SEC 31 TWP 62 RGE 10 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:30:12, 54:23:57				Data Entry Date	16-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA08				Review Date	09-Jan-2013				
Clear Roadway/Skew	8.2 / 15 deg. (RHF)				Dept. Reviewer Name	Paul Catt				
AADT/Year	230 / 2011 (A)				Dept. Review Date	18-Jan-2013				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	50									
Allowable Load (t):	Single		Semi		Train		----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Bridge plaque missing @ NW.								

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Intersection with local road 30m south. Steep grades both directions.				
Vertical Alignment			6	6	S intersection visiblilty slightly impeded by trees.				
Roadway Width (m)	10.300								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Not all installed exactly at 540mm.				
Guardrail			4	6					
Length (m)	32.500								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage			8	8					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 4 Spans, Lengths(m): 16.8-16.8-16.8-16.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	50.0				
Wearing Surface			9	8	
(Material Type : POLYMER MODIFIED ACP)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			9	9	
Deck Joints			3	8	Caulked saw cut in asphalt.
Temperature (deg. C)		-6			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
0		A1			
0		P1			
0		P2			
0		P3			
0		A2			
Deck Drainage			9	8	
Drains Clogged (Y/N)		No			
Curbs/Median			4	N	Top of curb patches slightly subset allowing some ponding (in process of correcting). Curb cover plate bolts project out and must be ground flush. Poor old patch 3rd post from NE.-04-Aug-2010
(Curb Type : Standard)					
Scaling (Percent Area)					
Bridge Rail			9	9	
(Type : GALVANIZED STEEL TUBE BEAM TYPE 1)					
Bridge Rail Posts		3	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		9	8		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			4	4	G1, S2 has been repaired in the past on the top in hope of stopping water. Wide cracks on outside edge with rust staining appear to be moist from last snow. Crack is 3m @ SW and 1.5m @ NW. Because corrosion appears to be only stirrups and not strand and because it is a curb unit. Rating boosted up to a 4.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 40)					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 4 Spans, Lengths(m): 16.8-16.8-16.8-16.8, A-Ident Number:)					
Diaphragms/Cross Frame		X	X		
Bearings		7	7		
Temperature (deg. C)	6				
(Expansion Type :)					
(Fixed Type : NEOPRENE STRIP BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	5	On exterior South end of span 3, west curb. Rust stains on exterior fascia and leach stains on underside.	
Stains (Percent Area)	2				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		4	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		7	7		
Wingwalls		7	7		
Piles		N	N		
Paint/Coating		4	4	Tar missing on 25%.	
Abutment Stability		4	4	A1 cap has rotated to the paint, where girders are touching concrete with 1 minor spall.	
Scour/Erosion		4	4	Headslope gully (up to 1mx1m) at SE.	
Piers/Bents					
(Type : PIER-COLUMN)				Rust stains emanating from concrete at all cap ends. Minor spall and delam at W end underside of all caps - shallow cover.	
Bearing Seats/Caps		4	4		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 5:5:5)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		7	7		
Nose Plate		N	X		
Paint/Coating		4	4	Lower 1m of coating has superficial corrosion and corroded along some welds.	
(Colour Description : BLUE)					
(Colour Code : 502-105)					
Pier Stability		7	7		
Scour		7	N		
Debris (Y/N)	Yes			Old TT piles remaining at P3 and 30m u/s to West.	
Substructure General Rating		4	4		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	4	Riprap at toe - headslopes = none.
(Type : RIP RAP)				Erosion gulley at SE, fill settled @ South abut.
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
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	2013	Paint piles in Pier 2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	57.8/54.1	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking, pier cap scaling/cracking.		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	Randy Bredo		Previous Assistant's Name	Bryan Wai			
Next Inspection Date	14-Mar-2016		Previous Inspection Date	04-Aug-2010			
Inspection Cycle (Default) (months)	39						
Comment							