

Bridge Inspection										
Bridge File Number	76226 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1967/1967				Lot No.	1				
Bridge or Town Name	LUNDBRECK				Inspector Name	Garry Roberts				
Located Over	CPR				Inspector Class	BR CLS A				
Located On	3:04 C1 14.760				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	29-Nov-2011				
Legal Land Location	SE SEC 30 TWP 7 RGE 1 W5M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-114:07:14, 49:35:02				Data Entry Date	16-Dec-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA26				Review Date	07-Dec-2011				
Clear Roadway/Skew	13.7 / -45 deg. (LHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	3,630 / 2010 (A)				Dept. Review Date	10-Jan-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20				----> Primary Span					

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		No								
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	NOT REQUIRED									
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	Not Req.									

Hazard Marker At Bridge (Y/N)	No									
Remarks										
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone	N @ R/W				Gas					
Power					Municipal					
Others	Fibre optical @ S R/W				Problem (Y/N)	No				
Remarks										

Approach Road																
			Last	Now	Explanation of Condition											
Horizontal Alignment			7	7	On crest curve as bridge crosses RR.											
Vertical Alignment			5	5												
Roadway Width (m)		13.200														
Approach Bump			6	6												
Guardrail (Y/N)		Yes	Missing 1 splice bolt at NE Not Thriebeam													
Guardrail										5	4					
Length (m)		99.000														
Current Standard (Y/N)		No														
Termination Type		TURNED DOWN														
Drainage			3	7	SW repaired.											
Approach Road General Rating			5	5												

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last	0	0	0	0			
Now	0.0	0.0	0.0	0.0			
Wearing Surface			7	7	cracked over piers and abutments.		
(Material Type : ACP)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			6	6	Leaks onto sub structure		
Temperature (deg. C)		4					
(Expansion Type :)							
(Fixed Type : ASPHALTIC FIBRE BOARD)							
Gap Size (mm)		Gap Location					
Deck Drainage			5	4	all joints leak onto substructure and leakage between girders Sp.1 - G1, G2.		
Drains Clogged (Y/N)		No					
Curbs/Median			4	4	Spall and exposed rebar at both sides at midspan. Spalls at joints exposing water stop at 5 locations. Flexural cracks, snowplow abrasions.		
(Curb Type : Standard)							
Scaling (Percent Area)		5					
Bridge Rail			4	4	Single layer. Wrong lap at SE and missing 2 splice bolts at Sp.1-North		
(Type : GALVANIZED STEEL FLEX BEAM)							
Bridge Rail Posts			7	7			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			6	5			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Girders			5	5	At SW corner narrow crack outside curb unit and NE some cracking. Breakage at corner at northeast fascia-minor. Rust spots at underside of NE curb girder.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
(Number Of Girders : 48)							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	4			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Leakage between girders and staining - Active at Sp1-G1 and G2.
Stains (Percent Area)	20			
Span Alignment Problems				
Vertical (Y/N)	No			50mm misalign @ piers-minor
Horizontal (Y/N)	Yes			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Minor spalls
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	NE bridge plaque is missing
Piles		N	N	Buried.
Paint/Coating		X	X	Abut. caps stained from joint leakage.
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		4	4	Minor 300x300 spall at South end of P1.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 9:9)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Surface corrosion @ bottoms of piles Pier caps are stained from joint leakage.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		N	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	Repaired with Cl.1 and 2 rock.
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	East slope protection is pulled away 550mm and dropped 150mm.
Drainage		6	6	
Grade Separation General Rating		7	5	

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	2014						
REPAIR/REPLACE DECK JOINTS	2014	Waterproof deck joints					
RESET/ PAINT BEARINGS							
WASHING	2014	Blast and seal abutments and pier caps & Fascia					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2014	Patch pier and abut. spalls.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.4/59.9	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	29-Aug-2013		Previous Inspection Date	18-May-2010			
Inspection Cycle (Default) (months)	21						

Comment	
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