

Bridge Inspection											
Bridge File Number	75334 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1982/1982					Lot No.	2				
Bridge or Town Name	RED DEER					Inspector Name	Owen Salava				
Located Over	2:24 R1 28.226;2:24 L1 28.155					Inspector Class	BR CLS A				
Located On	25116:02 L1 0.153;25116:02 R1 0.152					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	18-Mar-2013				
Legal Land Location	SE SEC 7 TWP 38 RGE 27 W4M					Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:50:31, 52:14:55					Data Entry Date	28-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien				
Contract Main. Area	CMA19					Review Date	23-Mar-2013				
Clear Roadway/Skew	18 / 6 deg. (RHF)					Dept. Reviewer Name	Chris Black				
AADT/Year	9,000 / 2003 (E)					Dept. Review Date	09-Apr-2013				
Road Classification	RLU-208-110					Follow-Up By					
Detour Length (km)	5										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS300										----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.8m, 2 R1 5.8m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.9	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.7	In Advance (Y/N)	Yes
Remarks												
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 required.									
Hazard Marker At Bridge (Y/N)			No									
Remarks			Not required.									
Other Sign Types												

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	Yes - no marker.					Gas				
Power						Municipal				
Others	Street/traffic control lights.					Problem (Y/N)	No			
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Typical grade South. Light to West.
Vertical Alignment		7	7	
Roadway Width (m)	16.200			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	30.400			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		6	4	Icing at NW bearing seat, erosion at NE wingwall.
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CBT, 2 Spans, Lengths(m): 36-36, 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	10.0	0.0	0.0	0.0	
Wearing Surface			5	5	Chipseal on WB travel lane only 20% worn off. Longit. cracks btwn girders. Transverse cracks every est 400mm over pier for 5.0m wide area in deck EB near c/l. ACP deteriorating at A2 paving lip.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			7	7	No visible problems. Icing on NW bearing seat may be from jnt problem.
Temperature (deg. C)		-9			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
105		E. abut			
110		W. abut			
Deck Drainage			5	4	(Bird baths on sidewalk. 13Sep2011). Icing on NW bearing seat; possibly clogged with ice or gland damage at NW corner.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Jersey barriers top to bottom vertical cracks every 1.0m-0.3mm wide. Scale behind cover plate at SW corner - minor.
(Curb Type : NEW JERSEY)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Continuous new jersey type concrete barrier. Sidewalk on north side only, vertical bar.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			6	6	Coating peeling on concrete barrier.
(Type : CONCRETE)					
Bridge Rail/Posts Coating		5		5	
(Type : GALVANIZED)					
Sidewalk			5	5	(Small bird baths @ various locations. Scaling/delam of 10% top of sidewalk. 13Sep2011) - Ice covered 50%.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			4	4	0.4 mm wide x 100 to 300mm longit. cracks @ transition & web, 400mm from bottom 1/4 of 1400mm deep DBT - marked & dated @ S1G2, A1. Typical @ 50% of girders @ abuts. No stains. Total length of crack 750mm.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 34)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBT, 2 Spans, Lengths(m): 36-36, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	-9			
(Expansion Type : REINFORCED PAD BEARING;STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN;NEOPRENE STRIP BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
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		8	8	Ice at N end of A1 and stains.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		5	5	SE cracked at seat.
Piles		N	N	
Paint/Coating		4	4	Deteriorated concrete sealer at corners. Stained at NW bearing seat.
Abutment Stability		8	8	
Scour/Erosion		X	4	Erosion at NE wingwall; hole partially filled with concrete debris. Minor erosion closer to slope protection.
Piers/Bents				
(Type : PIER-COLUMN)				
Many shrinkage cracks.				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	2 shafts.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	Grey.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	Guardrail termination is dirt berm @ turn down end.
Type	Guardrail			
Slope Protection		5	5	W abut moved 20mm out, 100mm down. E abut moved 140-290mm out, 150mm down; gap filled with foam.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

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	2013	Check W jnt for leaks, repair.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Remove debris at NE fill with pitrun, 2m3.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Reseal bearing seats & wingwalls.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	54.3/54.3	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor crack in girder, S1G2, A1 - marked & dated.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	18-Dec-2014		Previous Inspection Date	13-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							