

Bridge Inspection									
Bridge File Number	79400 SR2-1 Bridge				Form Type	CON			
Year Built/Year Supstr	1982/1982				Lot No.	1			
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts			
Located Over	10232:02 R1 0.536;10232:02 L1 0.405				Inspector Class	BR CLS A			
Located On	RAMP 4097-1 B;RAMP 4097-1 L				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jan-2013			
Legal Land Location	NE SEC 11 TWP 23 RGE 1 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:01:36, 50:57:01				Data Entry Date	15-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y				Review Date	30-Jan-2013			
Clear Roadway/Skew	23 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	20,000 / 2007 (E)				Dept. Review Date	21-Feb-2013			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single		Semi		Train				----> On Critical Spans ---->Critical Member
Design Loading:									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 10232 L1 5.9m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	6.1	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	7.0	In Advance (Y/N)	No
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	At Bridge (Y/N)	No		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No		
Remarks			Not required.									
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		MERGE , 80KM/HR, 40KM/HR @ Ramp.										

Utilities (Located at)			
Utility Attachments	POWER UTILITIES-POWER LINE		
Telephone	In area.	Gas	
Power	Crosses South.	Municipal	Manhole @ SW.
Others	Conduit @ SW.	Problem (Y/N)	No
Remarks			
Light standard - underside deck lighting.			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Ramps curve B2164
Vertical Alignment		5	5	Ramps on downgrade.
Roadway Width (m)	23.000			Pothole at both approaches at middle lane at West bridge.
Approach Bump		4	4	Cracks in approach slabs- up to 75mm wide at South between bridges.
Guardrail (Y/N)	Yes			NW parapet - 130mm misalignment. Projects into traffic.
Guardrail		4	4	
Length (m)	37.000			
Current Standard (Y/N)	No			
Termination Type	TURNDOWN			
Drainage		5	6	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 3 Spans, Lengths(m): 20-30-16, 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			6	6	Hairline map cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	3	Corrosion and some minor spalling at anchors. (Gland is out of extrusion at NBL at South abut joint - Gravel Covered). Active leakage at both abuts.
Temperature (deg. C)		3			
(Expansion Type :)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
35			N abut		
65			S abut		
Deck Drainage			4	4	Leakage along center longitudinal joint causing spalling of deck underside. Worst at headslope. Over traffic is adequate.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	30% snow covered. Corrosion & Cracks @ low cover rebar, worst at center parapet @ NBL.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		10			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girders			X	6	Slab.
Diaphragms/Cross Frame			X	X	
Bearings			6	7	10% corrosion at 50% of bearing at piers abutments at masonry plates mostly SW bearing 50% corrosion.
Temperature (deg. C)		3			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			
Deck Underside			4	3	Corrosion stains and cracks at 50 mm gap between structures. Is adequate over traffic . Worst areas at headslopes spalled at South and at North end.
Stains (Percent Area)		2			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 3 Spans, Lengths(m): 20-30-16, A-Ident Number:)				
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		4	6	
Backwalls/Breastwalls		5	4	Minor spall at South under median joint and at bearing #2- not affecting bearing.
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Corrosion staining at South.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		6	6	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Curve.
Traffic Safety Features		7	7	
Type	PARAPETS			
Slope Protection		4	4	Cracked at piers and open gaps at wingwalls.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Tom Carey	Previous Assistant's Name	
Next Inspection Date	26-Apr-2016	Previous Inspection Date	25-Apr-2011
Inspection Cycle (Default) (months)	39		
Comment			