

Bridge Inspection										
Bridge File Number	79401 SR4-2 Bridge				Form Type	CON				
Year Built/Year Supstr	1982/1982				Lot No.	2				
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts				
Located Over	RAMP 4097-1 J				Inspector Class	BR CLS A				
Located On	RAMP 4097-1 H				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	-114:01:35, 50:56:59				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	11.6 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	20,000 / 2007 (E)				Dept. Review Date	04-Mar-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: 4097-1-J 5.9m									
Posted Vertical Clearance (Y/N)										
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks										
Required Load Posting (t)	Single				Semi				Truck Train	
Posted Loading (t)	Single				Semi				Truck Train	
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)				At Bridge (Y/N)	
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)				At Bridge (Y/N)	
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)	No									
Remarks										
Other Sign Types	80km/ hr									

Utilities (Located at)										
Utility Attachments	POWER UTILITIES-POWER LINE									
Telephone					Gas					
Power	South ROW				Municipal					
Others	Light Standards.				Problem (Y/N)	No				
Remarks	Underside deck lights.									

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			5	5	Curves B2165B					
Vertical Alignment			5	5	Grade down to North.					
Roadway Width (m)	18.000				Pothole at South at 1st lane at East in concrete and ACP.					
Approach Bump			4	4						
Guardrail (Y/N)	Yes				Parapets at SE is misaligned 80mm against traffic.					
Guardrail			5	4						
Length (m)	70.000									
Current Standard (Y/N)	Yes									
Termination Type	TURNDOWN									
Drainage			7	7						
Approach Road General Rating			5	5						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 3 Spans, Lengths(m): 16.2-19.8-16.9, A-Ident Number:)					
Special Features					
Special Feature			6	Crash barrier at South- minor damage.	
(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 cracking.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Suspect leaking at South due to staining and deterioration at abut. Gap 45mm @ median - between structures with gland seal South abut. joint is common with BF 79401 SR3
Temperature (deg. C)		3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
60			N abut		
45			S abut		
Deck Drainage			6	6	No drains.
Drains Clogged (Y/N)					
Curbs/Median			5	5	Parapets - isolated minor spalls. 30% snow covered.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		0			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girders			X	X	Voided slab.
Diaphragms/Cross Frame			X	X	
Bearings			7	7	2 bearings /abut and pier.
Temperature (deg. C)		3			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			5	4	SE corrosion & cracks. Corrosion stains at slab exterior and scaling at SE. Scaling and staining at underside exterior at East at barrier.
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): 16.2-19.8-16.9, A-Ident Number:)				
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		3	3	Coating failed at SE.
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		7	6	Pigmented sealer
(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		5	5	Curve.
Traffic Safety Features		7	7	
Type	PARAPETS			
Slope Protection		4	4	Some 6mm to 20mm cracks in concrete slope protection- typical. 30mm crack at NW.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Patch approach slab potholes - 1m2.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace South deck joint seal. Check North seal.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Blast and coat at SE abut and deck underside.					
OTHER ACTION	2013	Seal crack at NW slope protection approx 20 LM.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	43.1/39.9	Est. Repl. Yr	2046	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	26-Apr-2016		Previous Inspection Date	25-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							