

Bridge Inspection										
Bridge File Number	79209 SR1-1 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 D;RAMP 4097-1 L					Inspector Class	BR CLS A			
Located On	RAMP 4097-1 C					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	26-Jan-2013			
Legal Land Location	SE SEC 14 TWP 23 RGE 1 W5M					Data Entry By	Lauren Korte			
Longitude, Latitude	-114:01:39, 50:57:08					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	12.5 /					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	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 4097-1-D 5.1m, 4097-1-L 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.1	In Advance (Y/N)	No
Remarks		Also posted for 16' 10"										
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)		No	In Advance (Y/N)		No	At Bridge (Y/N)		No	
Remarks		Not required.										

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types		80KM/HR										

Utilities (Located at)									
Utility Attachments	GAS UTILITIES-GAS LINE; POWER UTILITIES-POWER LINE								
Telephone	In area.					Gas	At North West.		
Power	West ROW and attached to SW wingwall.					Municipal			
Others	Light standards.					Problem (Y/N)	No		
Remarks		Underside deck lighting.							

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves-bridge Deck on curve B2163 Grade down of both sides.
Vertical Alignment		6	6	
Roadway Width (m)		14.000		Parapets. Misaligned 150mm at North West. Projection of parapet into traffic. Not thriebeam.
Approach Bump		5	6	
Guardrail (Y/N)		Yes		
Guardrail		4	3	
Length (m)		48.000		
Current Standard (Y/N)		No		
Termination Type		TURNDOWN		
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 3 Spans, Lengths(m): 26-36-23, 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			7	4	Hairline map cracking- 2 spalled areas at south approach slab. Majority of deck rates 7.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Seal torn at North abutment. Suspect South joint is also leaking.
Temperature (deg. C)		1			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75			N abut		
55			S abut		
Deck Drainage			6	6	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	Isolated spalls with visible rebar. West parapet 30% snow covered. Majority of West parapet is spalled at lower exterior joints with several over traffic lanes.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		2			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girders			5	4	Slab-corners @ fascia have wide longitudinal cracks. NW corner marked for reference.
Diaphragms/Cross Frame			X	X	
Bearings			7	7	2 bearings at each pier and abut. SW bearing has 50% corrosion from joint leakage.
Temperature (deg. C)		1			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			
Deck Underside			3	6	Medium width longitudinal cracks.
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): 26-36-23, A-Ident Number:)				
Superstructure General Rating		3	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		4	4	Cracking into seat area. Delam. cracks under SW bearing.
Backwalls/Breastwalls		5	4	Delams at SW.
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Pigmented sealer is peeling and stained at NW, NE and SW from failed joint.
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	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Curve.
Traffic Safety Features		7	7	
Type	PARAPETS			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Realign Northwest reproach parapet. Repair West exterior parapet spalls approx 2m2 and interior parapet approx 3m2.				
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2013	1m2 at South approach.				
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2013	Replace both abutment seals.				
RESET/ PAINT BEARINGS	2013	Paint SW Bearing.				
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Patch and seal South West abutment.				
OTHER ACTION	2013	Seal slab fascia cracks- Epoxy seal approx 5LM at A1 and 8LM at A2.				
OTHER ACTION	2013	Recoat NW, NE and SW.				
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	38.9/44.4	Sufficiency Rating (Last/Now) (%)	36.7/39.9	Est. Repl. Yr	2051	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	
---------	--