

Bridge Inspection										
Bridge File Number	82011 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	2003/2003					Lot No.	1			
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts			
Located Over	2:15 L1 9.861;2:15 R1 9.769					Inspector Class	BR CLS A			
Located On	LOCAL ROAD					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	30-Jan-2013			
Legal Land Location	SW SEC 21 TWP 22 RGE 29 W4M					Data Entry By	Erin Roberts			
Longitude, Latitude	-113:57:59, 50:52:49					Data Entry Date	19-Feb-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y					Review Date	06-Feb-2013			
Clear Roadway/Skew	12 /					Dept. Reviewer Name	Tim Davies			
AADT/Year	2,000 / 2004 (E)					Dept. Review Date	21-Feb-2013			
Road Classification	RLU-208-100					Follow-Up By				
Detour Length (km)	10									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Yes												
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	No
Remarks												
Required Load Posting (t)												
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				
Posted:	Lane	SB	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												
Not req'd												
Other Sign Types												
Pedestrian - Sign bridges both ends												

Utilities (Located at)												
Utility Attachments												
Telephone	In area underground and overhead					Gas						
Power	In area					Municipal	Manhole @ SE, SW					
Others	Light standards					Problem (Y/N)	No					
Remarks												
Underside deck lighting												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Exit ramps both ends.
Vertical Alignment		6	6	Ramps up to bridge.
Roadway Width (m)	9.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Parapets.
Guardrail		5	5	Minor spalls and cracks at SW, SE.
Length (m)	70.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PB, 2 Spans, Lengths(m): 50-50, 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	20.0	0.0	0.0	0.0		
Wearing Surface			7	7	PMA. Widened at North side.	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N	Paved over.	
Deck Rideability			8	8		
Deck Joints			7	7		
Temperature (deg. C)		-15				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
120		W abut				
110		E abut				
Deck Drainage			3	3	Sidewalk drainage is causing erosion at SE wingwall. Drain troughs not yet constructed under NW and NE deck drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	Concrete parapets. Wide crack at SW soffit. Median is 70% snow covered. South parapet 40% snow covered.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8	Pedestrian rail @ South	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	7		
(Type : GALVANIZED)						
Sidewalk			4	4	12 grout pads deteriorating at South ped. rail over top of highway 2. 2 A/B nuts not fully engaged at SW.	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	1		
Girders			8	3	Widened by 2 girders at North side in 2011. Access hatch locks not installed at new girders. Minor high load scrape at Sp 2 -G1 and G2.	
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
(Number Of Girders : 5)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 50-50, A-Ident Number:)				
Diaphragms/Cross Frame		3	3	Spall in both abut. shear blocks and concrete diaphragms from movement North Vertical construction joint crack at NE.
Bearings		6	6	Integral @ pier. Bearing pads are leaning slightly North from movement.
Temperature (deg. C)	-15			
(Expansion Type : REINFORCED PAD BEARING)				50 mm tear in Sp. 2 - G2 bearing pad.
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Isolated cracks with staining at new deck at NW.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	8	
Wingwalls		8	8	
Piles		N	N	Buried
Paint/Coating		8	7	Pigmented sealer.
Abutment Stability		7	7	Abuts. appear to be shifting slightly North - possibly due to recent widening.
Scour/Erosion		3	3	Erosion at SE wing wall and adjacent to SE protection. From deck and sidewalk drainage.
Piers/Bents				
(Type : PIER-SOLID)				Integral @ pier
Bearing Seats/Caps		N	N	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	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		7	7	
Traffic Safety Features		X	X	
Type				
Slope Protection		8	7	Rating original only, construction not yet complete at North 1/2
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	5	Adjacent slopes not yet grassed at North side.
Drainage		7	5	
Grade Separation General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair 12 grout pads at South ped. rail					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	5m³ pit run at SE wingwalls and head slope					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Improve deck drainage- channel water away from wingwalls					
OTHER ACTION	2013	Repair both abut. shear blocks and diaphragms approx. 2m2					
OTHER ACTION	2013	Install V.C. signs in advance					
OTHER ACTION	2013	Install girder access hatch locks (x4)					
OTHER ACTION	2013	Complete concrete slope protection, Monitor 50 mm tear in Sp. 2 - G2 bearing pad.					
OTHER ACTION	2013	Repair high load damage Sp1- G1 approx 400x400					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/55.6	Sufficiency Rating (Last/Now) (%)	59.6/50.5	Est. Repl. Yr	2061	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	30-Oct-2014	Previous Inspection Date	02-Jan-2012
Inspection Cycle (Default) (months)	21		
Comment			