

Bridge Inspection										
Bridge File Number	78906 WS-1 Bridge					Form Type	CON			
Year Built/Year Supstr	1979/1979					Lot No.	2			
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts			
Located Over	2:15 R1 28.670;2:15 L1 28.772					Inspector Class	BR CLS A			
Located On	RAMP 4094-2 A					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	21-Jan-2013			
Legal Land Location	SE SEC 1 TWP 24 RGE 1 W5M					Data Entry By	Lauren Korte			
Longitude, Latitude	-114:00:21, 51:00:52					Data Entry Date	06-Feb-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y					Review Date	29-Jan-2013			
Clear Roadway/Skew	10.5 /					Dept. Reviewer Name	Tim Davies			
AADT/Year	14,700 / 2003 (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:	HS25									----> Primary Span

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: 2 L1 6.1m, 2 R1 5.4m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks	SB posting on 78905 SE.										
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	50KM/HR, TURN, MERGE										

Utilities (Located at)									
Utility Attachments									
Telephone	In area.				Gas				
Power	8w Main line 80m North.				Municipal				
Others	Multiple wires to East.				Problem (Y/N)		No		
Remarks	Light Standards.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Downgrade to South.				
Vertical Alignment			5	5	Deck on curve & super elevation.				
Roadway Width (m)	10.500								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Parapets. Minor spall at NE.				
Guardrail			5	5					
Length (m)	8.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNDOWN								
Drainage			7	4	Minor erosion at SW under barrier.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CB, 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			4	4	1m ² spall at East approach- filled with ACP. Also 1m ² spall at West and rear joint.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			X	X	
Deck Rideability			7	7	
Deck Joints			6	4	Minor chipping of concrete @ anchors. Center rail is cracked at West joint. 2 gland joints @ both abuts. A1=60mm-60mm. A2=50mm-60mm.
Temperature (deg. C)		-7			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
60		E abut			
60		W abut			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			6	4	Parapets recently patched. Spalling at exterior base at SW of joints-6 locations.
(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			7	7	
Diaphragms/Cross Frame			X	X	
Bearings			5	5	Not seen @ West-too high. East rates 7. Integral @ pier.
Temperature (deg. C)		-7			
(Expansion Type :)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			7	7	
Stains (Percent Area)		0			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CB, 2 Spans, Lengths(m): 50-50, A-Ident Number:)				
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	5	West abut seat too high for complete inspection. Spall crack at East abut but not affecting bearing.
Backwalls/Breastwalls		6	4	1m2 spall at bottom of SW.
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	4	Stained and peeling at West.
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Integral.
Bearing Seats/Caps		7	7	
(Type :)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		6	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	On curve.
Traffic Safety Features		7	7	Thriebeam at West.
Type	PARAPET			
Slope Protection		6	6	Retaining wall at West.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		6	6	
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	Repair parapet spalls approximately 1m ² .					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	2m ² deck spall.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Weld crack at A1- check seal for leakage.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch SW breastwall approx 1m ² .					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	61.2/50.9	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	21-Oct-2014		Previous Inspection Date	19-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							