

Bridge Inspection										
Bridge File Number	78905 SE-1 Bridge				Form Type	CON				
Year Built/Year Supstr	1979/1979				Lot No.	2				
Bridge or Town Name	CALGARY - Peigan Trail				Inspector Name	Garry Roberts				
Located Over	2:15 R1 28.999;2:15 L1 29.100				Inspector Class	BR CLS A				
Located On	RAMP 4093-2 A				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	21-Jan-2013				
Legal Land Location	NE SEC 1 TWP 24 RGE 1 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:00:16, 51:01:02				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	19,600 / 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 5.6m, 2 R1 6.1m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.5	In Advance (Y/N)	No
Remarks												
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, 70KM/HR											

Utilities (Located at)											
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE										
Telephone	At NW.				Gas						
Power	8W mainline 30m South and West abut.				Municipal						
Others	Multiple wires to East.				Problem (Y/N)		No				
Remarks											

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Downgrade to North. Deck on curves & superelevated. B2137				
Vertical Alignment			5	5					
Roadway Width (m)			10.500		Spalled and misaligned at NW 75mm against traffic.				
Approach Bump			5	5					
Guardrail (Y/N)			Yes						
Guardrail			3	3					
Length (m)			30.000						
Current Standard (Y/N)			No						
Termination Type			TURNDOWN						
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>CB, 2 Spans, Lengths(m): 43-43, A-Ident Number:</b> )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			X	X	
Deck Rideability			7	7	
Deck Joints			3	3	
Temperature (deg. C)		-7		Deck joint leakage causing abut. spalls. 0.5m long section of West abut extrusion broken (and open hole in seal at West joint). Could not confirm open hole in seal. 2 gland joints @ both abuts.Center bar at A2 joint is cracked in RH lane. A1= 50mm-60mm A2=60mm -60mm	
(Expansion Type : )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
60		E abut			
60		W abut			
Deck Drainage			3	3	
Drains Clogged (Y/N)		No		No drains. Active Leakage @ both Abut Joints causing scaling and spalling.	
Curbs/Median			4	3	
(Curb Type : <b>JERSEY/F SHAPE</b> )					
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			5	5	
Minor highload over middle S/B lane.					
Diaphragms/Cross Frame			X	X	
Bearings			6	6	
Temperature (deg. C)		-7		Too high to see @ East.  Integral @ pier. North bearing @ West abut corrosion.	
(Expansion Type : <b>POT BEARING</b> )					
(Fixed Type : )					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			
Deck Underside			7	7	
Stains (Percent Area)		0			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CB, 2 Spans, Lengths(m): 43-43, A-Ident Number: )</b>				
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		4	6	
Backwalls/Breastwalls		5	4	Spalling and delaminated at NW.
Wingwalls		3	3	Approx. 10 m <sup>2</sup> delaminated at SE from fixed joint leakage.
Piles		N	N	Buried.
Paint/Coating		5	4	Stained and scaled at both abuts.
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	
(Type : )				
Pier Shaft/Piles		7	7	Patched.
Nose Plate		X	X	
Paint/Coating		6	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	On curve.
Traffic Safety Features		4	4	(Delaminated at top side of parapet at pier- 1m <sup>2</sup> ). Could not confirm.
Type	PARAPET			
Slope Protection		6	6	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Patch parapets 20m <sup>2</sup> on bridge and approximately 5m <sup>2</sup> approach parapets.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Patch and reset NW parapet.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace Glands or new deck joints. Repair extrusions at both abuts. Seal fixed joints.					
RESET/ PAINT BEARINGS	2013	Paint NW Bearing.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Blast/seal scaling @ wings & both abuts.					
OTHER ACTION	2013	Patch abut. breastwall delams- approx 18 m <sup>2</sup> .					
OTHER ACTION	2013	Patch SE wing delam- approx 10m <sup>2</sup> .					
OTHER ACTION	2013	Patch center median parapet 1m <sup>2</sup> (if not already done).					
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>45.5/48.8</b>	Est. Repl. Yr	2040	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							