

Bridge Inspection										
Bridge File Number	82005 N-1 Bridge					Form Type	CON			
Year Built/Year Supstr	2000/2000					Lot No.	2			
Bridge or Town Name	CALGARY - DEERFOOT TRAIL OVER 96 AVENUE					Inspector Name	Garry Roberts			
						Inspector Class	BR CLS A			
Located Over	25289:02 L1 0.260;25289:02 R1 0.261					Assistant Name				
Located On	2:15 R1 44.101					Assistant Class				
Water Body Cl./Year						Inspection Date	07-Jan-2013			
Navigabil. Cl./Year						Data Entry By	Lauren Korte			
Legal Land Location	SE SEC 23 TWP 25 RGE 1 W5M					Data Entry Date	28-Jan-2013			
Longitude, Latitude	-114:02:05, 51:08:28					Reviewer Name	Tom Carey			
Road Authority	Alberta Transportation (AIT)					Review Date	17-Jan-2013			
Contract Main. Area	DEERFOOT/STONEV					Dept. Reviewer Name	Tim Davies			
Clear Roadway/Skew	16 / 19 deg. (RHF)					Dept. Review Date	29-Jan-2013			
AADT/Year	92,100 / 2011 (A)					Follow-Up By				
Road Classification	RFD-616.6-130									
Detour Length (km)	1									
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)												
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)		Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	
Remarks	Not required E/B.											
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												

Utilities (Located at)											
Utility Attachments	POWER UTILITIES-POWER LINE										
Telephone	In area.					Gas					
Power	In area. Vault at SE.					Municipal					
Others	Light standards and water under deck lighting.					Problem (Y/N)		No			
Remarks											

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				7	7	Improper lap at NW and NE. Missing 8 bolts at NW and SW. 65m at South end. Not thriebeam.				
Vertical Alignment				7	7					
Roadway Width (m)		16.000								
Approach Bump				5	6					
Guardrail (Y/N)		Yes								
Guardrail				4	4					
Length (m)		22.000								
Current Standard (Y/N)		No								
Termination Type		TURNDOWN								
Drainage				4	4	Erosion at SW is affecting guardrail post. 70mm gap at NW and SE approach joint at curbs with caulking displaced.				
<b>Approach Road General Rating</b>				<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>CS, 2 Spans, Lengths(m): 20.1-22.8, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			7	At pier - decorative wing.	
(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>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	Paved over.
Deck Rideability			7	7	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			7	6	Narrow cracks & efflorescence @ curb face & exterior. Heavy scaling at SE exterior.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			6	6	13 posts missing cap bolts. 1 post missing cap @ SW. Splice bolts missing @ NW but not required with welded splice. 25 post A/B nuts not fully engaged.
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts			3	3	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : )					
Sidewalk			X	X	
Girders			X	X	
Diaphragms/Cross Frame			X	X	
Bearings			X	X	Integral @ pier & abutments.
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside			7	7	Staining at exteriors at corners.
Stains (Percent Area)		2			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 2 Spans, Lengths(m): 20.1-22.8, A-Ident Number: )				
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		X	N	Integral.
Backwalls/Breastwalls		8	8	
Wingwalls		4	4	Grout is breaking up at tops of NE and SE wingwalls.
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		6	6	
Scour/Erosion		3	3	Erosion beside SW and NW wingwalls.
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Integral.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	
Traffic Safety Features		7	7	Hazard marker at pier.
Type	PARAPETS			
Slope Protection		7	5	MSE walls with 50mm mis-alignment at SE.
(Type : )				
Bank Stability		7	7	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install washer & bolts & caps.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Resend caulking at all approach curbs.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Repair NW, SW, and median post erosion. 20m3 pit run 5m3 Cl. 1.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Remove grout at tops of wing walls and place 1" washed rock.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>62.1/62.1</b>	Est. Repl. Yr	2071	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	07-Oct-2014		Previous Inspection Date	10-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							