

Bridge Inspection													
Bridge File Number	79205 -1 Bridge					Form Type	CON						
Year Built/Year Supstr	1980/1980					Lot No.	4						
Bridge or Town Name	CALGARY - HERITAGE DRIVE OVER DEERFOOT TRAIL					Inspector Name	Garry Roberts						
						Inspector Class	BR CLS A						
Located Over	2:15 R1 24.488;2:15 L1 24.589					Assistant Name							
Located On	10234:02 C1 0.098					Assistant Class							
Water Body Cl./Year						Inspection Date	23-Jan-2013						
Navigabil. Cl./Year						Data Entry By	Lauren Korte						
Legal Land Location	NE SEC 26 TWP 23 RGE 1 W5M					Data Entry Date	11-Feb-2013						
Longitude, Latitude	-114:02:07, 50:59:14					Reviewer Name	Tom Carey						
Road Authority	Alberta Transportation (AIT)					Review Date	29-Jan-2013						
Contract Main. Area	DEERFOOT/STONEV					Dept. Reviewer Name	Tim Davies						
Clear Roadway/Skew	16.8 /					Dept. Review Date	21-Feb-2013						
AADT/Year	18,959 / 2003 (E)					Follow-Up By							
Road Classification	RLU-208-100												
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: 2 L1 6.1m, 2 R1 5.3m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	6.0	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)	In Advance (Y/N)			At Bridge (Y/N)						
Posted:	Lane	WB	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	Lane ends 400m attached to SE exterior.												
Utilities (Located at)													
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE												
Telephone	In area.					Gas							
Power	South ROW.					Municipal							
Others	Light standards.					Problem (Y/N)			No				
Remarks													
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	B2152 On crest curve.							
Vertical Alignment				5	5								
Roadway Width (m)	16.800					ACP 20mm low @ both approaches.							
Approach Bump				5	5								
Guardrail (Y/N)	Yes					Not thriebeam.							
Guardrail				6	6								
Length (m)	9.000												
Current Standard (Y/N)	No												
Termination Type	TURNDOWN												
Drainage				7	7								

Approach Road				
		Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>		5	5	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CB, 2 Spans, Lengths(m): 31-34, A-Ident Number: </b> )				
Special Features				
Special Feature			7	Sign @ South exterior of parapet @ East span over N/B lane.
(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>	30.0	0.0	0.0	0.0
Wearing Surface		7	7	Medium width crack at pier and at East.
(Material Type : <b>CONCRETE</b> )				
(Thickness(mm) : <b>50</b> )				
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		7	7	At abuts only.
Temperature (deg. C)		-13		
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )				
(Fixed Type : )				
Gap Size (mm)		Gap Location		
70	E abut			
80	W abut			
Deck Drainage		7	7	No drains.
Drains Clogged (Y/N)		No		
Curbs/Median		5	5	Isolated areas of cracks & corrosion stains. 40% snow covered.
(Curb Type : <b>JERSEY/F SHAPE</b> )				
Scaling (Percent Area)		2		
Bridge Rail		7	7	On top of continuous jersey barrier @ North only.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )				
Bridge Rail Posts		7	7	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )				
Bridge Rail/Posts Coating		7	7	
(Type : <b>GALVANIZED</b> )				
Sidewalk		6	6	Narrow map cracks. No pedestrian rail.
Girders		5	5	Medium width longitudinal and vertical cracks at ends.
Diaphragms/Cross Frame		5	5	Medium & wide cracks @ end diaphragms.
Bearings		5	5	2nd bearings @ both abuts have damaged teflon guides but still functional. integral @ pier 10% corrosion at East abut.
Temperature (deg. C)		-13		
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)		Yes		
Functioning (Y/N)		Yes		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CB, 2 Spans, Lengths(m): 31-34, A-Ident Number: )</b>				
Deck Underside		7	7	Med width crack @ sides & undersides of girders.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			Glass plate crack guage glued in place at Sp.2-G2 South Side, not broken-crack not active. Others have fallen off.
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		7	7	
Backwalls/Breastwalls		5	5	2m <sup>2</sup> delam. at West under Wouth bearing- not affecting bearing.
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Integral @ pier.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		7	6	Minor delam at East side of South shaft.
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	
Traffic Safety Features		5	5	
Type	PARAPET			
Slope Protection		5	5	Top settled 100mm @ East. Cracked @ top -all corners @ East. Tied back retaining wall at West headslope for lane widening.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>52.9/50.4</b>	Est. Repl. Yr	2048	Maint. Req. (Y/N)	No
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	23-Oct-2014		Previous Inspection Date	20-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							