

Bridge Inspection										
Bridge File Number	77173 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	2002/2002					Lot No.	2			
Bridge or Town Name	CALGARY - COUNTRY HILLLS BOULEVARD					Inspector Name	Garry Roberts			
						Inspector Class	BR CLS A			
Located Over	2:15 R1 45.947;2:15 L1 46.070					Assistant Name				
Located On	COUNTRY HILLS BOULEVARD:04 L1 0.431					Assistant Class				
Water Body Cl./Year						Inspection Date	07-Jan-2013			
Navigabil. Cl./Year						Data Entry By	Lauren Korte			
Legal Land Location	SW SEC 25 TWP 25 RGE 1 W5M					Data Entry Date	28-Jan-2013			
Longitude, Latitude	-114:01:08, 51:09:16					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	17.2 / -43 deg. (LHF)					Dept. Review Date	29-Jan-2013			
AADT/Year	26,770 / 2002 (E)					Follow-Up By				
Road Classification	RLU-208-100									
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)			UNDER: 2 L1 5.3m, 2 R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	No
Remarks		Not required N/B as 77173E governs										
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 Req'd										
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		40KM/HR @ RAMPS										

Utilities (Located at)				
Utility Attachments	OTHER UTILITIES-OTHER LINES			
Telephone	4W 400m NW.		Gas	
Power			Municipal	Manhole @ SE-drain @ NE.
Others	Light standards. Under deck lighting.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Traffic lights at both ends on crest curve. 13.5m road width at East.
Vertical Alignment		6	6	
Roadway Width (m)		17.200		Cracked @ NE
Approach Bump		5	6	
Guardrail (Y/N)		Yes		Guardrail at North. Concrete parapets at SW and SE.
Guardrail		3	4	
Length (m)		38.000		Spall in NE and NW jersey barrier. Missing 1 G/R bolt and 3 loose bolts at NE. Wrong lap at NW and 1 split post at NW.
Current Standard (Y/N)		Yes		
Termination Type		FLARE ENDS		
Drainage		7	7	

Approach Road					
			Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>			6	6	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : <b>PB, 2 Spans, Lengths(m): 58-58, A-Ident Number: </b> )					
Special Features					
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>	0.0	0.0	0.0	0.0	
Wearing Surface			8	7	PMA.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			8	8	
Deck Joints			3	4	Hairline crack at paving lips-epoxy filled at some.
Temperature (deg. C)		-6			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					12 missing plow guards at East abutment joints and 1 at West abut.
(Fixed Type : )					
Gap Size (mm)		Gap Location			
90		E abut			
85		W abut			
Deck Drainage			7	7	Drains through drain holes @ North parapet.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Concrete parapets.
(Curb Type : <b>Standard</b> )					Minor spall at mid at North.
Scaling (Percent Area)		0			Vertical medium width cracks throughout.
Bridge Rail			7	7	8 with 1 to 2 threads, not engaged with bolt at North pedestrian rail.
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	Round steel tube rail at South parapet.
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					HSS square tube slat pedestrian rail @ North.
Bridge Rail/Posts Coating			7	7	
(Type : <b>PAINT</b> )					
Sidewalk			7	7	Some hairline cracks-epoxy filled.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>PB, 2 Spans, Lengths(m): 58-58, A-Ident Number: </b> )				
Girders		8	7	Patches @ cast in place @ pier. Also previous high load patches at Sp.1 - G3 and G4. 4 continuous girders.
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : <b>8</b> )				
Diaphragms/Cross Frame		8	8	Integral at pier.
Bearings		8	7	Some minor distortion of 20mm forward at exterior pads.
Temperature (deg. C)	-6			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL;NEOPRENE STRIP BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Minor stains @ forming joints.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>8</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	Lots of pigeon crap on seats.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried.
Paint/Coating		4	4	Peeling at wing walls - minor.
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>4</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
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		7	7	Merge ramp at NW.
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		8	8	Tied back concrete retaining walls at both ends.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		8	8	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Review if plow guards are required and replace 1 at A1 and 12 at A2.					
RESET/ PAINT BEARINGS							
WASHING	2013	Wash pigeon crap from abutment seats.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch NE and NW parapet spall approx 1m2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>69.8/67.1</b>	Est. Repl. Yr	2076	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							