

Bridge Inspection										
Bridge File Number	81800 NW-1 Bridge				Form Type	CON				
Year Built/Year Supstr	1993/1993				Lot No.	4				
Bridge or Town Name	CALGARY BEDD				Inspector Name	Garry Roberts				
Located Over	2:15 R1 42.206;2:15 L1 42.305				Inspector Class	BR CLS A				
Located On	772:01 R1 0.886				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	06-Jan-2013				
Legal Land Location	SE SEC 15 TWP 25 RGE 1 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:02:54, 51:07:34				Data Entry Date	28-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	DEERFOOT/STONEYP				Review Date	17-Jan-2013				
Clear Roadway/Skew	12.2 / 5 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	22,309 / 2001 (E)				Dept. Review Date	29-Jan-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 5.2m, 2 R1 5.2m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.7	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	6.5	In Advance (Y/N)	No
Remarks												
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)	No		In Advance (Y/N)	No		At Bridge (Y/N)	No		
Remarks			Not required.									

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types			60KM/HR RAMPS									

Utilities (Located at)												
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE											
Telephone	Fibre optics under span 2.					Gas						
Power	Main transmission lines span 4.					Municipal		Manhole at SW-sewar to South				
Others	Light standard.					Problem (Y/N)		No				
Remarks			US Lighting. Conduit at NE Wing and under deck and at West Pier.									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		5	5	B2188	
Vertical Alignment		5	5	Ramp Grade. Bridge on double curve and superelevation.	
Roadway Width (m)		12.200			
Approach Bump		7	7		
Guardrail (Y/N)		Yes		Parapets.	
Guardrail		7	7		
Length (m)		50.000			
Current Standard (Y/N)		Yes			
Termination Type		TURNDOWN			
Drainage		7	7		
Approach Road General Rating		5	5		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CB, 6 Spans, Lengths(m): 30-35-35-38-38-38, 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	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Crack down center Line.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	3 gland joint at West abut. 2 gland joint at East abut. 45-50-55mm- West abut. + 10mm fixed joint. 45-50mm- East abut. + 10mm fixed joint.
Temperature (deg. C)		-5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
45			E abut		
45			W abut		
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			4	7	Parapets. Hairline to narrow map & vertical cracks- some abrasion.
(Curb Type :)					
Scaling (Percent Area)		5			
Bridge Rail			3	X	Plastic- bridge rail has been removed.
(Type :)					
Bridge Rail Posts			3	X	
(Type :)					
Bridge Rail/Posts Coating			5	X	
(Type :)					
Sidewalk			X	X	
Girders			7	7	Narrow and hairline long cracks girders.
Diaphragms/Cross Frame			X	X	
Bearings			7	7	
Temperature (deg. C)		-5			
(Expansion Type : POT BEARING)					
(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, 6 Spans, Lengths(m): 30-35-35-38-38-38, A-Ident Number:)				
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		8	8	
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Pigmented coating is peeling.
Abutment Stability		8	8	
Scour/Erosion		5	5	Minor erosion starting at SE.
Piers/Bents				
(Type : PIER-SOLID)				Map cracks
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Pedway under West Span, CPR Under span 2, Nose creek under span 3. Deerfoot Trail under Sp.5-6.
Traffic Safety Features		7	7	Also cable barrier at center median .
Type	Guardrail			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

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							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	66.3/66.3	Est. Repl. Yr	2063	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	06-Oct-2014		Previous Inspection Date	10-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							