

Bridge Inspection													
Bridge File Number	82010 E-1 Bridge					Form Type	CON						
Year Built/Year Supstr	2000/2000					Lot No.	2						
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts						
Located Over	2:15 R1 12.039;2:15 L1 12.137;RAMP 683-1 E					Inspector Class	BR CLS A						
Located On	22X:04 R1 5.100					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	01-Feb-2013						
Legal Land Location	NE SEC 29 TWP 22 RGE 29 W4M					Data Entry By	Erin Roberts						
Longitude, Latitude	-113:58:34, 50:53:59					Data Entry Date	28-Feb-2013						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey						
Contract Main. Area	DEERFOOT/STONEV					Review Date	07-Feb-2013						
Clear Roadway/Skew	16.6 / -15 deg. (LHF)					Dept. Reviewer Name	Tim Davies						
AADT/Year	15,870 / 2011 (A)					Dept. Review Date	04-Mar-2013						
Road Classification	RAU-211.8-110					Follow-Up By							
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 R1 5.4m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	S/B posting on N/B bridge at 5.4												
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)		In Advance (Y/N)		At Bridge (Y/N)						
Remarks	Not required												
Hazard Marker At Bridge (Y/N)	Yes												
Remarks	50km/hr ramp 80km/hr - West end route												
Other Sign Types													
Utilities (Located at)													
Utility Attachments	POWER UTILITIES-POWER LINE												
Telephone	In area.					Gas							
Power	Multiple lines around bridge.					Municipal							
Others	Light standards.					Problem (Y/N)			No				
Remarks	Underside lighting.												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	SE ring road construction all around area.							
Vertical Alignment				7	7								
Roadway Width (m)	16.000												
Approach Bump				7	7								
Guardrail (Y/N)	Yes					Wrong lap at NE							
Guardrail				4	4	Not thriebeam. Temp barriers at NE.							
Length (m)	99.000												
Current Standard (Y/N)	No												
Termination Type	BULB												
Drainage				3	3	Erosion hole at SE wingwall 1.5x1.5x3 and at NE wing 1x2 - covered with erosion mat at NE but still eroded.							
Approach Road General Rating				7	7								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 2 Spans, Lengths(m): 40-40, 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	10.0	0.0	0.0	0.0	
Wearing Surface			7	7	PMA RWIS sensor in EBL sp.2
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	N	Paved over
Deck Rideability			8	8	
Deck Joints			4	4	Joint good
Temperature (deg. C)		-9		Cover plates East end missing 10 inserts for bolts -5 at each side. Plates are not loose.	
(Expansion Type :)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
75	E abut				
70	W abut				
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Typical vertical cracks.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	One nut not engaged at 8th from West at South side and 7th from West at North side.
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	8th at South can be removed and is not grouted in.
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : PAINT)					
Sidewalk			X	X	
Girders			X	X	Slab
Diaphragms/Cross Frame			X	X	
Bearings			8	8	At abutments. Integral at pier.
Temperature (deg. C)		-9			
(Expansion Type : POT BEARING)					
(Fixed Type :)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			7	4	Some random hairline cracks with efflorescence. Minor high load damage at North and South deck fascia of span 2.
Stains (Percent Area)		2			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 2 Spans, Lengths(m): 40-40, A-Ident Number:)				
Superstructure General Rating		7	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		8	8	
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried
Paint/Coating		5	5	Isolated peeling at SW wing
Abutment Stability		8	8	
Scour/Erosion		8	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral.
Bearing Seats/Caps		N	N	
(Type : CONCRETE)				
Pier Shaft/Piles		8	8	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Curve at South.
Traffic Safety Features		8	7	
Type	CON MEDIAN			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	5	Construction all around.
Drainage		7	7	Concrete drain trough at west shoulder.
Grade Separation General Rating		7	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2014	Repair 2 rail A/B.					
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	2014	Repair SE and NE wing erosion 8m³ pit run.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2014	Patch high load damage approx 1m2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/66.7	Sufficiency Rating (Last/Now) (%)	68.2/56.8	Est. Repl. Yr	2066	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	01-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							