

Bridge Inspection										
Bridge File Number	82413 E-1 Bridge				Form Type	SG				
Year Built/Year Supstr	2007/2007				Lot No.	2				
Bridge or Town Name	CPR				Inspector Name	Garry Roberts				
Located Over	15 STREET NE;CPR				Inspector Class	BR CLS A				
Located On	201:08 R1 22.586				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	20-Aug-2011				
Legal Land Location	SW SEC 36 TWP 25 RGE 1 W5M				Data Entry By	Erin Roberts				
Longitude, Latitude	-114:01:19, 51:10:33				Data Entry Date	06-Sep-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	DEERFOOT/STONE Y				Review Date	24-Aug-2011				
Clear Roadway/Skew	24.5 / -45 deg. (LHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	25,040 / 2010 (A)				Dept. Review Date	08-Sep-2011				
Road Classification	UAD-412.4-110				Follow-Up By					
Detour Length (km)										
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	CL800						----> Primary Span			

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		Yes								
Posted:	Lane	NB	On Bridge (m)	6.2	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks		Posted S/B on W.B bridge								
Required Load Posting (t)		Single			Semi			Truck Train		
Posted Loading (t)		Single			Semi			Truck Train		
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)			At Bridge (Y/N)		
Posted:	Lane	EB	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		Not req'd								
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone	Buried along fenceline, paralleling Pier 1				Gas					
Power	North and South Row- crosses over East Abut.				Municipal	Light standards				
Others	Unknown electrical manholes at SW and SE.				Problem (Y/N)	No				
Remarks										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			8	8	Thriebeam At NW all other corners are 99m+					
Vertical Alignment			8	8						
Roadway Width (m)		27.000								
Approach Bump			8	7						
Guardrail (Y/N)		Yes								
Guardrail			8	8						
Length (m)		33.000								
Current Standard (Y/N)		Yes								
Termination Type		Attenuator								
Drainage			4	4	SE approach drainage causing erosion along SE wing and headslope.					
Approach Road General Rating			8	8						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 35-44-35, A-Ident Number: A1697-01)						
Special Features						
Special Feature			8	West abut only, galv steel railing on top of MSE Wall		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	North 12m of deck not currently in use.	
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			8	8		
(Material Type : MIX TYPE 1 ACP)						
(Thickness(mm) : 90)						
Deck Top			N	N	Paved over.	
Deck Rideability			8	8		
Deck Joints			7	4	Perpendicular cracks in joint conc. paving lip, typical both abut A1 & A2 Snow plow guards. Missing 4 at East abut and 1 at West abut.	
Temperature (deg. C)		23				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
65		Abut. 1- West				
58		Abut. 2- East				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			8	8		
(Curb Type : JERSEY/F SHAPE)						
Scaling (Percent Area)		0				
Bridge Rail			X	X		
(Type :)						
Bridge Rail Posts			X	X		
(Type :)						
Bridge Rail/Posts Coating			X	X		
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	7 girders/span	
Flange			9	8		
Web			9	8		
Stiffeners			9	8		
Splice			9	8		
Weld			9	8		
Diaphragms/Cross Frame			9	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 35-44-35, A-Ident Number: A1697-01)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	A1, P1, P2 not accessible viewed with binoculars Pier 2 is fixed.
Temperature (deg. C)	23			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		9	8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		8	8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		9	8	
(Type :)				
Backwalls/Breastwalls		9	8	
Wingwalls		9	8	
Piles		N	N	H piles - buried
Paint/Coating		8	7	Pigmented sealer
Abutment Stability		9	8	
Scour/Erosion		3	3	Erosion at SE wingwall and headslope from approach drainage.
Piers/Bents				
(Type : PIER-COLUMN)				Spread footing both piers
Bearing Seats/Caps		9	8	
(Type :)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		9	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		9	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Posted for max 25kph in both directions Access roads under Sp.1 and 3- CPR under Span 2
Traffic Safety Features		X	X	
Type				
Slope Protection		X	X	
(Type : NATURAL; NATURAL)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

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	2011	Install 5 plow guards					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Repair erosion at SE wing and headslope- 5m ³ pit run/ topsoil					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Install advance VC signs on local road xing under span 1					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	94.4/88.9	Sufficiency Rating (Last/Now) (%)	69.0/62.9	Est. Repl. Yr	2081	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Items above may that have been classified as deficiencies should be completed with bridge construction contract work.		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	20-May-2013		Previous Inspection Date	24-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							