

Bridge Inspection													
Bridge File Number	77808 E-1 Bridge					Form Type	PSR						
Year Built/Year Supstr	1974/1974					Lot No.	2						
Bridge or Town Name	CALGARY - 17 AVENUE SOUTH					Inspector Name	Garry Roberts						
Located Over	2:15 R1 31.513;2:15 L1 31.610;RAMP 4092-1 B;RAMP 4092-1 E					Inspector Class	BR CLS A						
Located On	1A:07 R1 12.300					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	16-Jan-2013						
Legal Land Location	NE SEC 12 TWP 24 RGE 1 W5M					Data Entry By	Kelsey Roberts						
Longitude, Latitude	-114:00:20, 51:02:13					Data Entry Date	02-Feb-2013						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey						
Contract Main. Area	DEERFOOT/STONE Y					Review Date	22-Jan-2013						
Clear Roadway/Skew	20.9 / -30 deg. (LHF)					Dept. Reviewer Name	Tim Davies						
AADT/Year	53,541 / 2001 (E)					Dept. Review Date	04-Feb-2013						
Road Classification	RLU-208-100					Follow-Up By							
Detour Length (km)	16												
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 5.4m, 2 R1 5.0m												
Posted Vertical Clearance (Y/N)	No												
Posted:	Lane	NB	On Bridge (m)	5.0	In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	Sign is faded. NB sign is missing. SB posting on 77780 W.												
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				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)	No												
Remarks													
Other Sign Types	ROUTE, 60KM/HR, 40KM/HR @ RAMPS												
Utilities (Located at)													
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE												
Telephone	At SE					Gas							
Power	In area					Municipal			Manhole at West at median and at SE approach				
Others	Light standards					Problem (Y/N)			No				
Remarks	Underside deck lighting												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				6	6	Curve to West. B2135							
Vertical Alignment				6	6	On crest curve with grade up to West E/B structure 300mm higher than W/B							
Roadway Width (m)	21.000					Recently paved at West- rutted at East. 0.5m2 spall and pothole at East approach slab							
Approach Bump				4	4								
Guardrail (Y/N)	Yes					(Parapets- spalled at SE bottom fascia) -Could not confirm due to snow cover							
Guardrail				4	4								
Length (m)	14.000												
Current Standard (Y/N)	Yes												
Termination Type	TURN DOWN												
Drainage				7	7								
Approach Road General Rating				6	6								

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PB, 2 Spans, Lengths(m): 41-42.1, 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	30.0	0.0	0.0	0.0			
Wearing Surface			6	6	Hairline map cracks @ SE Wide longitudinal cracking at West at inside lanes.		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			5	5	Concrete paving lips. Minor spalling at anchors.		
Temperature (deg. C)		10					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
65		E abut					
35		W abut					
Deck Drainage			6	4	Leaks along center median joint onto deck underside causing scaling and spalling at WB.		
Drains Clogged (Y/N)		No					
Curbs/Median			5	4	Isolated cracks and spalls at parapet		
(Curb Type : JERSEY/F SHAPE)							
Scaling (Percent Area)		5					
Bridge Rail			4	4	Plastic posts & rails on top of jersey barrier Missing coupler @ SE and leaning over NBL and not anchored at SW.		
(Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL)							
Bridge Rail Posts			7	6	Blue paint		
(Type :)							
Bridge Rail/Posts Coating			5	5			
(Type :)							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Girders			6	6	Minor highload damage @ SE girder span 2. Narrow diagonal end cracks. Hairline cracks at bottom of girders		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : 12)							
Diaphragms/Cross Frame			7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 41-42.1, A-Ident Number:)				
Bearings		5	5	Recessed at abut-only partially seen integral at pier
Temperature (deg. C)	5			
(Expansion Type : POT BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	4	Minor corroison stains @ NE. Spall cracks at both ends under median joint.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		N	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		7	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	On curve.

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		4	4	Isolated spalls.
Type	PARAPETS			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Patch parapets approx. 5m2.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	0.5m spall at East approach span and deck underside at ends under median joint.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace seal at median joint.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Install N/B vertical clearance sign					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	52.4/49.1	Est. Repl. Yr	2043	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	16-Oct-2014		Previous Inspection Date	17-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							