

Bridge Inspection											
Bridge File Number	77802 E1-2 Bridge				Form Type	CON					
Year Built/Year Supstr	1983/1983				Lot No.	2					
Bridge or Town Name	CALGARY - MEMORIAL DRIVE				Inspector Name	Garry Roberts					
Located Over	RAMP 4091-1 F				Inspector Class	BR CLS A					
Located On	10243:02 R1 0.278				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	16-Jan-2013					
Legal Land Location	NW SEC 13 TWP 24 RGE 1 W5M				Data Entry By	Kelsey Roberts					
Longitude, Latitude	-114:00:55, 51:02:52				Data Entry Date	02-Feb-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey					
Contract Main. Area	DEERFOOT/STONEYP				Review Date	22-Jan-2013					
Clear Roadway/Skew	18 / 35 deg. (RHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	33,680 / 2001 (E)				Dept. Review Date	04-Feb-2013					
Road Classification	RLU-208-100				Follow-Up By						
Detour Length (km)	6										
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: 4091-1-F 5.2m								
Posted Vertical Clearance (Y/N)		Yes								
Posted:	Lane	NB	On Bridge (m)	5.6	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Only NB lanes									
Required Load Posting (t)		Single		Semi		Truck Train				
Posted Loading (t)		Single		Semi		Truck Train				
Posted:	Lane	EB	At Junction (Y/N)	In Advance (Y/N)		At Bridge (Y/N)				
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										

Utilities (Located at)										
Utility Attachments	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE									
Telephone	In area				Gas					
Power	North median.				Municipal					
Others	Light Standards.				Problem (Y/N)		No			
Remarks										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			5	5	B2176					
Vertical Alignment			6	6	On grade up to East Bridge on curve & superelevated					
Roadway Width (m)		18.000								
Approach Bump			5	6						
Guardrail (Y/N)		Yes		Parapets-insufficient length						
Guardrail			6	6						
Length (m)		10.000								
Current Standard (Y/N)		No								
Termination Type		TURNDOWN								
Drainage			7	7						
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>CX, 1 Spans, Lengths(m): 35.5, A-Ident Number: )</b>					
<b>Special Features</b>					
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>	20.0	0.0	0.0	0.0	
Wearing Surface			6	6	Hairline map cracks
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	1 bolt missing at center of East abut. cover plate.
Temperature (deg. C)		3			
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
25	E abut				
35	W abut				
Deck Drainage			6	6	No drains on grade
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Parapets Isolated corrosion & cracks. 1 section at North side with spalls and visible rebar.
(Curb Type : <b>NEW JERSEY</b> )					
Scaling (Percent Area)		2			
Bridge Rail			7	4	Plastic rails on top of parapet
(Type : <b>PLASTIC BRIDGE RAIL NON-STANDARD RAIL</b> )					
Bridge Rail Posts			4	4	Spall @ SW parapet-post of plastic rail not anchored. 6 posts are leaning at SW.
(Type : )					
Bridge Rail/Posts Coating			6	6	Plastic rails  Powder coat
(Type : )					
Sidewalk			X	X	
Girders			X	6	Slab.
Diaphragms/Cross Frame			X	X	
Bearings			6	6	5% corrosion @ SW
Temperature (deg. C)		3			
(Expansion Type : <b>POT BEARING</b> )					
(Fixed Type : <b>POT BEARING</b> )					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			6	6	Isolated corrosion stains @ deck underside rates "7" other than this area. Corrosion stains @ SW & SE. Patched @ SW
Stains (Percent Area)		1			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CX, 1 Spans, Lengths(m): 35.5, A-Ident Number: )				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		7	7	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
Pier Shaft/Piles		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	On curve.
Traffic Safety Features		7	7	Amber lights-South of bridge
Type	AMBER LIGHTS			
Slope Protection		6	7	MSE wall - minor corrosion stains at West side.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair rail and post- plastic. Repair parapet spalls approx 2m2.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace 1 missing bolt - check others					
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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.8/59.8</b>	Est. Repl. Yr	2046	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	18-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							