

Bridge Inspection										
Bridge File Number	77004 E-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1969/1969				Lot No.	1				
Bridge or Town Name	CALGARY - CPR OVERPASS Memorial Drive				Inspector Name	Garry Roberts				
					Inspector Class	BR CLS A				
Located Over	CPR				Assistant Name					
Located On	LOCAL ROAD				Assistant Class					
Water Body Cl./Year					Inspection Date	15-Jan-2013				
Navigabil. Cl./Year					Data Entry By	Kelsey Roberts				
Legal Land Location	NW SEC 13 TWP 24 RGE 1 W5M				Data Entry Date	02-Feb-2013				
Longitude, Latitude	-114:01:14, 51:02:52				Reviewer Name	Tom Carey				
Road Authority	Alberta Transportation (AIT)				Review Date	22-Jan-2013				
Contract Main. Area	UNDEFINED CMA				Dept. Reviewer Name	Tim Davies				
Clear Roadway/Skew	17.4 /				Dept. Review Date	04-Feb-2013				
AADT/Year	59,817 / 2001 (E)				Follow-Up By					
Road Classification	RLU-208-100									
Detour Length (km)	6									
Allowable Load (t):	Single		Semi		Train					
Design Loading:	HS20				----> On Critical Spans ---->Critical Member ----> Primary Span					

Posting Information													
Required Vert. Clearance Posting (m)													
Posted Vertical Clearance (Y/N)		No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	Not req.												
Required Load Posting (t)		Single		Semi		Truck Train							
Posted Loading (t)		Single		30.0		Semi		47.0		Truck Train		63.0	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	Yes					
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No					
Remarks	E/B traffic only												
Hazard Marker At Bridge (Y/N)	No												
Remarks													
Other Sign Types	80KM/HR												

Utilities (Located at)										
Utility Attachments	POWER UTILITIES-POWER LINE									
Telephone	In area				Gas					
Power	LRT power to N & 10 wies under span 3				Municipal		Manhole @ NW			
Others	Light standards				Problem (Y/N)		No			
Remarks										

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				6	6	Curve @ East end. Controlled intersection City File #B4305  18 m wide on bridge and widens to 24 m wide @ West end.				
Vertical Alignment				7	7					
Roadway Width (m)		28.000				Parapets				
Approach Bump				7	7					
Guardrail (Y/N)		Yes								
Guardrail				6	6					
Length (m)		8.000								
Current Standard (Y/N)		No								
Termination Type		TURNDOWN								

Approach Road					
		Last	Now	Explanation of Condition	
Drainage		7	7		
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>FC, 4 Spans, Lengths(m): 27.1-27.1-27.1-27.1, A-Ident Number: )</b>					
Special Features					
Special Feature		8	8	Installed in 2003	
(Type : <b>EXT LATER POST TENS</b> )					
Special Feature		8	8		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	30.0	0.0	0.0	0.0	
Wearing Surface		7	7		
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		8	8		
Temperature (deg. C)		3			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
80		E abut			
80		E pier			
85		ctr pier			
80		W pier			
80		W abut			
Deck Drainage		8	8		
Drains Clogged (Y/N)		No			
Curbs/Median		7	6	Parapets- isolate minor spall cracks	
(Curb Type : <b>F SHAPE;JERSEY/F SHAPE</b> )					
Scaling (Percent Area)		1			
Bridge Rail		X	X		
(Type : )					
Bridge Rail Posts		X	X		
(Type : )					
Bridge Rail/Posts Coating		X	X		
(Type : )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	1	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 4 Spans, Lengths(m): 27.1-27.1-27.1-27.1, A-Ident Number: )				
Girders		5	3	Typical FC girder chamfer cracks Some corrosion @ underside of girder #6, #9, #10 @ span #2 and @ Span 1 @ girder #5  Sp.3-G1 has spall with visible rebar and neon strand.  Some isolated spalls on legs Span #1 and #4 at G1.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 60)				
Diaphragms/Cross Frame		6	6	Isolated staining at exterior diaphragms and minor spall at SW.
Bearings		7	7	
Temperature (deg. C)	3			
(Expansion Type : )				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Staining from train exhaust @ span 3. Isolated stains Sp. 4 - G15 and at A2
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	Pedway under span 2, CPR under Sp.4 Nose Creek under spans 2 &3
Traffic Safety Features		5	4	Spalled and cracked but ok for service road.
Type	PARAPETS			
Slope Protection		7	5	Rock along Nose Creek. Isolated heaves at A2.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT 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	2013	Chip and patch girder- check strand Sp.3-G1					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>52.9/41.5</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	15-Apr-2016		Previous Inspection Date	17-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							