

Bridge Inspection												
Bridge File Number	77090 E-1 Bridge					Form Type	PSR					
Year Built/Year Supstr	1973/1973					Lot No.	2					
Bridge or Town Name	CALGARY					Inspector Name	Garry Roberts					
Located Over	1:10 R1 2.150;CNR					Inspector Class	BR CLS A					
Located On	1:10 R1 2.150					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	14-Feb-2012					
Legal Land Location	NW SEC 19 TWP 24 RGE 28 W4M					Data Entry By	Erin Roberts					
Longitude, Latitude	-113:54:16, 51:04:00					Data Entry Date	14-Mar-2012					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey					
Contract Main. Area	CMA30					Review Date	22-Feb-2012					
Clear Roadway/Skew	12.8 / -45 deg. (LHF)					Dept. Reviewer Name	Tim Davies					
AADT/Year	20,890 / 2010 (A)					Dept. Review Date	22-Mar-2012					
Road Classification	RFD-412.4-130					Follow-Up By						
Detour Length (km)	1											
Allowable Load (t):	Single			Semi			Train			----> On Critical Spans		
Design Loading:	HS20										----> Critical Member	
											----> Primary Span	
Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 1 R1 7.0m											
Posted Vertical Clearance (Y/N)	No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)	
Remarks	Not Required.											
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)	No											
Remarks												
Other Sign Types	BRIDGE ICES -110KM/HR											
Utilities (Located at)												
Utility Attachments												
Telephone	IN NORTH DITCH.					Gas	SOUTH DITCH and at NE					
Power	5 LINE POWER North R/W.					Municipal						
Others	Light Standards					Problem (Y/N)	No					
Remarks												
Approach Road												
				Last	Now	Explanation of Condition						
Horizontal Alignment				9	9	Bridge on crest curve						
Vertical Alignment				6	6							
Roadway Width (m)	14.000											
Approach Bump				7	7							
Guardrail (Y/N)	Yes					Not Thriebeam						
Guardrail				7	7							
Length (m)	87.000											
Current Standard (Y/N)	No											
Termination Type	TURNED DOWN ENDS											
Drainage				7	7							
Approach Road General Rating				6	6							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM (PM) , 3 Spans, Lengths(m): 18.3-20.1-18.3, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			8	8	HPC concrete overlay
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	4	Missing 1 plow guard at P1 middle lane.
Temperature (deg. C)		-3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75		W. abut.			
75		West Pier			
75		East Pier			
75		East Abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			8	8	Insufficient thread at A/B nuts and several thin nuts placed Missing 2 post tops at SW and SE and 4 post tops bolts at South side.
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(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			5	5	North CURB UNITS CRACKED @ fascia @ abuts Widened at South side with new curbs and 2 new interiors
Cracking (Y/N)		Yes			
Spalling (Percent Area)					
(Number Of Girders : 57)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM (PM) , 3 Spans, Lengths(m): 18.3-20.1-18.3, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	Neoprene bearing pads under 3 widened girders at abuts.
Temperature (deg. C)	-3			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Staining previous to 2009 concrete overlay
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	Delam crack. 3 form plugs not filled at SE corner widened section
(Type : CONCRETE)				
Backwalls/Breastwalls		X	X	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Tar coating 50% peeled
Abutment Stability		7	7	
Scour/Erosion		X	5	Minor erosion at SE headslope.
Piers/Bents				
(Type : PIER-COLUMN)				Cracks and corrosion stains @ caps- previous to new overlay
Bearing Seats/Caps		6	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 10:10)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	Concrete base poured at pier piles
Nose Plate		X	X	
Paint/Coating		6	5	10% failed yellow paint
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		5	5	Settled up to 100mm @ top @ East
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Place 2 post caps and 4 cap bolts					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace 1 plow guard.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2012	Clean and seal previous staining at abuts and pier caps					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	58.3/57.8	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	14-Nov-2013		Previous Inspection Date	14-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							