

Bridge Inspection												
Bridge File Number	77090 W-2 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 L1 2.170;CNR						Inspector Class	BR CLS A				
Located On	1:10 L1 2.170						Assistant Name					
Water Body Cl./Year							Assistant Class					
Navigabil. Cl./Year							Inspection Date	14-Feb-2012				
Legal Land Location	SW SEC 30 TWP 24 RGE 28 W4M						Data Entry By	Erin Roberts				
Longitude, Latitude	-113:54:14, 51:04:01						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 L1 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)				In Advance (Y/N)			At Bridge (Y/N)		
Posted:	Lane	WB	At Junction (Y/N)	No			In Advance (Y/N)		No	At Bridge (Y/N)		No
Remarks	Not Required											
Hazard Marker At Bridge (Y/N)	No											
Remarks	Not Required											
Other Sign Types	90KM/HR, BRIDGE ICES											
Utilities (Located at)												
Utility Attachments												
Telephone	NORTH DITCH						Gas	NORTH OF OVERPASS				
Power	4 LINE North R/W, 50m FROM C.L.						Municipal					
Others	Light Standards						Problem (Y/N)	No				
Remarks												
Approach Road												
				<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>						
Horizontal Alignment				9	9	Bridge on crest curve						
Vertical Alignment				6	6							
Roadway Width (m)	12.000											
Approach Bump				8	7							
Guardrail (Y/N)	Yes					Not thriebeam						
Guardrail				6	6							
Length (m)	87.000											
Current Standard (Y/N)	No											
Termination Type	TURNED DOWN ENDS											
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 : PM, 3 Spans, Lengths(m): 18.3-20.1-18.3, A-Ident Number: )					
<b>Special Features</b>					
Special Feature					
(Type : )					
Special Feature					
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			8	6	HPC concrete overlay. Moderate sealing at span 1 and 2.
(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	4	2 broken plow guards P1 shoulder lane 2 delaminations at A2 paving lip.
Temperature (deg. C)		-3			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
75		E. abut			
75		E. pier			
75		W. pier			
75		W. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Corrosion stains @ South curb face
(Curb Type : <b>Standard;None</b> )					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Post bases snow covered. Approx. 8 visible A/B nuts with insufficient thread length
(Type : <b>STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(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	0	
Girders			5	5	LONGITUDINAL CRACKING GIRDER EXTERIOR -@ abuts @ fascia Scaling OF CENTRELINE GIRDER EAST ABUTMENT WITH STAINING IN BEARING AREA - Girder 7 Corrosion stains@ G15 @ S3 curb
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>45</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-20.1-18.3, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-3			
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Stains are previous to concrete overlay.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	1 point increase for curb and concrete overlay.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		X	X	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Tar coating 50% peeled- previous to concrete overlay
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Minor scaling and staining at ends- previous to new concrete overlay				
Bearing Seats/Caps		6	6	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>8:8</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	Concrete at base of pipe piles
Nose Plate		X	X	
Paint/Coating		6	5	Light staining at pier cap ends
(Colour Description : )				
Yellow paint at pier piles				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Formwork at NE slope protection
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	Railroad
Traffic Safety Features		X	X	
Type				
Slope Protection		4	5	Settled up to 100mm @ top @ East
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>6</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	2012	Repair 2 plow guards. Repair approx 1m2 paving lip delam at A2.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Consider removing previous staining at abuts and piers to monitor new deck joints					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.9/61.8</b>	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							