

Bridge Inspection									
Bridge File Number	01049 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1976/1976				Lot No.	4			
Bridge or Town Name	CALGARY				Inspector Name	Garry Roberts			
Located Over	WID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	1A:08 C1 3.814				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	06-Sep-2012			
Legal Land Location	NE SEC 15 TWP 24 RGE 28 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-113:49:12, 51:03:05				Data Entry Date	03-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney			
Contract Main. Area	CMA30				Review Date	21-Sep-2012			
Clear Roadway/Skew	13.7 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	12,120 / 2011 (A)				Dept. Review Date	11-Oct-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	3								
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 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)	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	60 km/hr.								

Utilities (Located at)									
Utility Attachments	OTHER UTILITIES-OTHER LINES; OTHER UTILITIES-Shaw fiber optic cable south side Jan 2008; TELEPHONE UTILITIES-PHONE LINE								
Telephone	In North curb.				Gas				
Power					Municipal				
Others	Street lights @ North.				Problem (Y/N)	No			
Remarks	Conduit under South sidewalk girders.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve to East.				
Vertical Alignment			7	7					
Roadway Width (m)		13.700							
Approach Bump			7	7					
Guardrail (Y/N)		Yes			Boxbeam rail at North side - flexbeam at South side.				
Guardrail			4	4	Missing 4 splice bolts at SE and SW.				
Length (m)		99.900			Not thriebeam.				
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
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>VSO (HC)</b> , 4 Spans, Lengths(m): 8.5-8.5-8.5-8.5, A-Ident Number: )					
<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>	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Silica fume overlay reinforced with rebar placed in September 1993. Covered in chipcoat - 100mm total based on 200mm curb height.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>125</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angle asphalt covered.
Bump (Y/N)		No			
Deck Drainage			4	4	Fibre board abutment joints leak onto abutments.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		3			
Bridge Rail			7	7	Tube rail at curbs, verticle rail at sidewalk.  Several A/B nuts with less than full thread engaged.  Corrosion at base plates.
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : )					
Sidewalk			7	7	0
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	28	0	0	0	
<b>Now</b>	28	0	0	0	
Girders			4	4	Typical longitudinal cracks in bottom of VS girders @ East span North fascia girder, medium width. (Actively leaks) & corrosion stained. Corrosion stain @ West span North fascia girder spalling & wide cracks in AZ of sidewalk girders. Int VS girder rate 7. Holes now drilled in girder to release water. @ NW & NE Sp.2 not accessible this inspection. 48 - "vs" girders  8 "G" girders @ sidewalk - sidewalk girders rate 2 vs girders govern rating
Last Complete Inspection Date					
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>48</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>4</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Corrosion stained with hairline cracks @ East. Minor spalling @ West under G11.	
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				6	5	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>900</b> )						
(Width(mm) : <b>500</b> )						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		1.00				
Wingwalls				6	6	
(Total Number of Bearing Piles : <b>0:0</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	1	0	0	0		
<b>Now</b>	1	0	0	0		
Piles				N	N	
Paint/Coating				4	4	Minor corrosion staining on tar coating.
Abutment Stability				7	7	
Scour/Erosion				7	7	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : : : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Scaling under sidewalk girders - about 2m2.	
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : <b>9:9:9</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		3.90				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				4	4	Surface corrosion @ 25% of piles - some peeling on caps.
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	Water too deep to see scour at center pier.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				Lake both sides.
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)	2.3			No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	6	Rock displaced and filter fabric exposed @ SW & SE.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel 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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.1/53.1</b>	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
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	06-Jun-2014		Previous Inspection Date	12-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							