

Bridge Inspection										
Bridge File Number	73218 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1974/1974				Lot No.	2				
Bridge or Town Name	PIBROCH				Inspector Name	Todd Warshawski				
Located Over	SHOAL CREEK, 8.11.84.12, WATERCRS-ST				Inspector Class	BR CLS B				
Located On	661:06 C1 3.919				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	27-May-2010				
Legal Land Location	NW SEC 4 TWP 62 RGE 1 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:05:30, 54:20:29				Data Entry Date	21-Jun-2010				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA10				Review Date	09-Jun-2010				
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	360 / 2009 (A)				Dept. Review Date	29-Jun-2010				
Road Classification	RCU-209-110				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									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Field access East & West.				
Vertical Alignment			8	8					
Roadway Width (m)	9.000								
Approach Bump			8	7					
Guardrail (Y/N)	Yes								
Guardrail			N	5	Insufficient posts and lengths.				
Length (m)	12.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	4	Windrow buildup impedes drainage.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VH, 3 Spans, Lengths(m): 10.1-10.1-10.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			6	5	2 grout key cracks / span. Grout key cracks reflecting through ACP. Pot holes along curb at lift pockets.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			4	5	
Drains Clogged (Y/N)		No			
Curbs/Median			N	5	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	4	Double layer missing 4 bolts @ every splice. (144 bolts). Improper lap. (23/Jan/2004) Snow covered. 10 posts with missing/wrong nuts. 1 post with broken anchorage.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			N	3	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			N	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				2	
Now	0	0	0	3	
Girders			3	3	S1-G7-Wide crack 1 spall in A-rebar embedded in sound concrete. S2-G2-Spall full length of one leg-rebar exposed. S3-G2-Concrete soundness not verified. 28 of 33 girders have wide cracks and spalls d/s of AZ. Drift pin spalls on most girders on S1.
Last Complete Inspection Date		27-May-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(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)		Joint leaking onto abutment.	
Last							
Now							
Bearing Seats/Caps/Corbels				6	5		
(Type : CONCRETE)							
(Depth(mm) :)							
(Width(mm) :)							
Backwalls/Breastwalls				6	6		Concrete
Greatest Height (m)		1.30					
Wingwalls				N	4		Erosion settlement along base.
(Total Number of Bearing Piles : 0:0)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)		Piles encased in concrete.	
Last							
Now	1						
Piles				N	N		
Paint/Coating				X	X		
Abutment Stability				6	6		
Scour/Erosion				7	6		
Piers/Bents							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)		Concrete spall on pier 1 under G11. Concrete spall on Pier 2 under G3.	
Last							
Now				1			
Bearing Seats/Caps/Corbels				4	3		
(Type : CONCRETE)							
(Depth(mm) : 600)							
(Width(mm) : 500)							
(Total Number of Bearing Piles : 6:6)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Pier Shaft/Piles				8	7		
Greatest Height (m)		3.60					
Bracing/Struts/Sheathing				8	7		
Nose Plate				X	X		
Paint/Coating				4	4	Heavy staining from leaky joint & salt attack. Superficial rusting. Pier columns & bracing are primed but not painted.	
(Colour Description :)							
(Colour Code :)							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	Yes			Old piles. Beaver dam.
Substructure General Rating		4	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type :)		7	6	Riprap and old concrete in channel and along piers.
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Install missing splice bolts and washers(144) and adjust lap.					
SEAL CURBS							
PATCH DECK	2010	Fill potholes and seal cracks.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2010	Wash abutment/pier caps & seal to protect from salt attack.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2010	Beaverdam/old piles.					
INSTALL STRUTS							
OTHER ACTION	2010	Partial depth repairs on pier caps.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	61.3/59.4	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracks in girder legs.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	27-Aug-2013		Previous Inspection Date	02-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							