

Bridge Inspection									
Bridge File Number	02140 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1959/1959				Lot No.	2			
Bridge or Town Name	HALKIRK				Inspector Name	Jason Saly			
Located Over	PAINTEARTH CREEK, 5.23, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	855:06 C1 15.243				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Jun-2010			
Legal Land Location	SW SEC 1 TWP 40 RGE 16 W4M				Data Entry By	Jill Potts			
Longitude, Latitude	-112:11:17, 52:24:43				Data Entry Date	01-Jul-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA21				Review Date	24-Jun-2010			
Clear Roadway/Skew	13.1 /				Dept. Reviewer Name	Chris Black			
AADT/Year	490 / 2009 (A)				Dept. Review Date	09-Jul-2010			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 74 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		40.0	Truck Train	54.0
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Not to standard height.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West side of road.				Gas				
Power	6 wire 16m east of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	8	900m south of NE 2. Bottom of sag with limited sight distance both directions.				
Vertical Alignment			5	5					
Roadway Width (m)	12.000				Slightly rough.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Hazard. Insufficient post/spacing all corners. Guardrail installed 1991. Too low & wavy - photo.				
Guardrail			3	3					
Length (m)	26.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			3	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			5	6	Chip seal coat on fibre reinforced silica fume concrete O/L. Narrow transverse cracks in grout keys, paved over - photo.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Paved over.
Bump (Y/N)	No				
Deck Drainage			6	6	Erosion gully along North headslope.
Drains Clogged (Y/N)	No				
Curbs/Median			4	5	Some plow damage at the corners of the curbs.
(Curb Type : Standard)					
Scaling (Percent Area)	5				
Bridge Rail			5	5	Single layer. Weak lap connection.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders			5	4	Cracking on 7th girder on U/S North end. Spalling outside AZ in S2G13 North end. No grout in the lift hook pockets in the curbs - photo. Spall at North of West girder at pier cap.
Last Complete Inspection Date	16-Jun-2010				
Cracking (Y/N)	No				
Spalling (Percent Area)	5				
Lift or Connector Pocket Grouted (Y/N)	No				
(Number Of Girders : 42)					
Span Alignment Problems					
Vertical (Y/N)	No				New caps.
Horizontal (Y/N)	No				
Superstructure General Rating			5	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				+2 ext.		
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : 3:3)				New caps.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				5	7	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				4	4	
Greatest Height (m)		2.50				
Wingwalls				5	5	
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				4	4	
Erosion North abutment, typical both corners. Not causing any problems.						
Piers/Bents						
(Type : PIER-COLUMN)				New caps.		
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0			2		
Now						
Bearing Seats/Caps/Corbels				3	8	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				6	6	
Greatest Height (m)		4.50				
Bracing/Struts/Sheathing				4	4	
Bracing 75mm x 250mm & 75mm x 300mm. Struts 150mm x 200mm. No cleat at abutments. Nailed in, no problems. Brace on South pier is split 75mm x 250mm x 4.8m.						
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		5	5	Some fill erosion around pier, no problem.
Debris (Y/N)	No			
Substructure General Rating		3	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandors both sides.
(D/S Direction : E)				
Alignment		4	5	
Bank Stability		N	6	Erosion SE corner. Minor erosion.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Minor.
Slope Protection		4	4	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	Beaver dam 30m & 60m U/S South abutment.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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	2010	Reinstall guardrail to meet standard.					
OTHER ACTION	2010	Re-install hazard markers to meet standard.					
OTHER ACTION	2010	Grout curb lift hook pockets.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	53.3/65.3	Est. Repl. Yr	2022	Maint. Req'd. (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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	16-Sep-2013		Previous Inspection Date	22-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							