

Bridge Inspection									
Bridge File Number	06573 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1964/1964				Lot No.	1			
Bridge or Town Name	HALKIRK				Inspector Name	Jason Saly			
Located Over	TRIBUTARY TO SULLIVAN LAKE, 3.14.14.2.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	855:04 C1 12.280				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Jun-2010			
Legal Land Location	NW SEC 7 TWP 36 RGE 15 W4M				Data Entry By	Jill Potts			
Longitude, Latitude	-112:08:52, 52:04:44				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	9.1 /				Dept. Reviewer Name	Chris Black			
AADT/Year	170 / 2009 (A)				Dept. Review Date	13-Jul-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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				Truck Train
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	NE hazard marker is damaged.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	6	Approach 25m NE.				
Vertical Alignment			7	7					
Roadway Width (m)	9.800				Both corners settled at North approach - photo. Wide diagonal crack in SW approach.				
Approach Bump			4	5					
Guardrail (Y/N)	Yes				Insufficient posts.				
Guardrail			8	7					
Length (m)	11.800								
Current Standard (Y/N)	No								
Termination Type	Turn down								
Drainage			7	7					
Approach Road General Rating			4	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 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	5	7 longitudinal cracks reflecting through the ACP. Cracks have previously been sealed.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)					
Deck Top			N	N	(Paved over 1995)
Deck Rideability			6	6	
Deck Joints			N	N	
Bump (Y/N)					
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Curb ends damaged by graders with exposed rebar in the SE corner.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Single layer. Splice lap between posts and insufficient bolts (16). Painted 1993, spot rusting/pitting.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		6	6		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		4	4		
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Unable to view girders because water is too deep under the bridge.
Last					
Now	11				
Girders			N	N	(G1 wide crack/spall in AZ, length of girder - photo. G6 narrow crack in AZ West leg, wide crack length of girder & spall outside AZ East leg. All other girders rated higher than 3, see separate girder rating sheet for details. No action required @ this time for cracked girder legs.) Lift hook pockets in the curbs not grouted - photo.
Last Complete Inspection Date					
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	G.R. carried forward.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 3:3)						
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	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		2.50				
Wingwalls				5	4	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				N	N	
Muddy water.						
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				N	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				5	5	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
				6 struts 6 x 8 TT.		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Bend just U/S of bridge.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2010	Patch SE & SW corners.					
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	Install bridgerail bolts (16).					
OTHER ACTION	2010	Replace damaged hazard marker @ NE.					
OTHER ACTION	2010	Grout curb lift hook pockets.					
OTHER ACTION	2010	Treat/band split piles (4).					
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	53.0/60.6	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Appears caps have been cored.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2009.07.10 Bridge will be adequate until 2020. Localized pile repair may be required in 2011. CB						
On 3-Year Program (Y/N)	Y						
Proposed Action	2009.07.10 Localized pile repair may be required in 2011. CB						
Previous Inspector's Name	Tim Davies		Previous Assistant's Name				
Next Inspection Date	16-Sep-2013		Previous Inspection Date	23-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							