

Bridge Inspection									
Bridge File Number	80628 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1962/1962				Lot No.	2			
Bridge or Town Name	HILLSPRING				Inspector Name	Jason Rusu			
Located Over	WATERTON RIVER, 2.12.22.5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	505:02 C1 17.285				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Jun-2012			
Legal Land Location	SW SEC 26 TWP 4 RGE 28 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-113:40:09, 49:19:38				Data Entry Date	23-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	10-Jul-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	370 / 2011 (A)				Dept. Review Date	30-Jul-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	13								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 66 DECK	----> 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	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 req.								

Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	SOUTH-MARKER @ SW				Gas				
Power	3 LINES to NE - 200m				Municipal				
Others					Problem (Y/N)	No			
Remarks	agt LINE @ s CURB UNDERSIDE								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Bridge @ waterton dam.				
Vertical Alignment			6	6					
Roadway Width (m)	9.100								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Wrong lap at SW				
Guardrail			4	4	Not attached to bridge excpet @ NW				
Length (m)	14.000				14m @ NW-22mm @ NE & 99mm @ SE & SW				
Current Standard (Y/N)	No				Not thriebeam				
Termination Type	Flare End								
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : CS, 13 Spans, Lengths(m): 8.2-8.1-9-8.7-8.8-8.8-8.8-8.8-8.7-9-8.1-8.2, A-Ident Number:)						
Special Features						
Special Feature		7	7	WATERTON DAM CONTROL GATES N. OF BRIDGE		
(SType : WATER LVL CTRL)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface		6	6	50 mm BASED ON CURB HEIGHT ASSUMPTION OF 300 mm Fibre reinforced Numerous 300mm-500mm narrow long crks		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		5	4	Isolated spalls at saw-cuts Fibre board joints @ abuts & piers Average spall size 100 x 100 25 - 40 deep x 8 spalls		
Temperature (deg. C)		7				
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Deck Drainage		6	6	All joints leak @ curbs		
Drains Clogged (Y/N)		No				
Curbs/Median		7	7			
(Curb Type : Standard)						
Scaling (Percent Area)						
Bridge Rail		5	5	9 POSTS CRACKED @ N of which 3 have wide crks/spalls. Minor corrosion		
(Type : VERTICAL BAR;STEEL VERTICAL BAR)						
Bridge Rail Posts		4	4			
(Type : CONCRETE)						
Bridge Rail/Posts Coating		4	4			
(Type : PAINT)						
Sidewalk		X	X			
Girders		X	X	STRUCTURAL SLAB		
Diaphragms/Cross Frame		X	X			
Bearings		N	N	Corrosion @ all ext brgs.		
Temperature (deg. C)		18				
(Expansion Type :)						
(Fixed Type :)						
Coating Adequate (Y/N)		No				
Functioning (Y/N)		Yes				
Deck Underside		N	N	Clear spans over spillway rate 6 @ ends Only partially seen due to water preventing access		
Stains (Percent Area)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 13 Spans, Lengths(m): 8.2-8.1-9-8.7-8.8-8.8-8.8-8.8-8.8-8.7-9-8.1-8.2, A-Ident Number:)				
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		4	4	Spall crack developing at south end of both abut. seats.
Backwalls/Breastwalls		N	N	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		N	N	Too deep
Piers/Bents				
(Type : PIER-SOLID)				Visible from U/S east and west banks
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Pier Shaft/Piles		6	6	Massive piers
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Too deep
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				South North
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	4.0			Full supply water mark on piers
Drift (Y/N)	Yes			
Slope Protection		8	8	CLASS I, II & III
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Patch 3 post spalls (no photo)					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch deck spalls at saw cuts - 0.08 m2					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Consider Water Proof Joints					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Investigate and repair abut. spall cracks					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	66.6/66.6	Est. Repl. Yr	2034	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	10-Sep-2015		Previous Inspection Date	09-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							