

Bridge Inspection							
Bridge File Number	75876 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1965/1965			Lot No.	1		
Bridge or Town Name	HILL SPRING			Inspector Name	Jason Rusu		
Located Over	PFR - IRRIGATION C, WATERCRS-IC			Inspector Class	BR CLS A		
Located On	505:02 C1 18.457			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	11-Jun-2012		
Legal Land Location	SW SEC 25 TWP 4 RGE 28 W4M			Data Entry By	Kelsey Roberts		
Longitude, Latitude	-113:39:20, 49:19:24			Data Entry Date	20-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	RCU-209-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 42 GIRDER	Semi	CS2 54 GIRDER	Train	CS3 71 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	Not req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	Curve								

Utilities (Located at)			
Utility Attachments			
Telephone	w. side along u/s of curb		Gas
Power			Municipal
Others			Problem (Y/N) Yes
Remarks	Telus conduit broken. Swing rope attached to conduit.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	CANAL SERVICE ROAD @ END OF BRIDGE.
Vertical Alignment		7	7	
Roadway Width (m)	9.100			TURNED OUT 3.0m RADIUS, 2 1/2 SECTIONS OF FLEXBEAM @ EACH CORNER. BEST RAIL DESIGN DUE TO SERVICE ROADS AT BRIDGE ENDS. Type 6 Not thriebeam
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	7.600			
Current Standard (Y/N)	No			
Termination Type	Flare End			
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 : FC, 3 Spans, Lengths(m): 18.3-21.3-18.3, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
<b>Wearing Surface/Deck Top Detail Ratings</b>						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			6	6	Some map crks Long crks-sealed  1 predominant longitudinal crack in N/B Sp.2	
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>90</b> )						
Lateral Connection Problem (Y/N)	Yes					
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7	abut. #1 and #2 fiber board piers #1 and #2  pier #1 and #2 covered with asphalt sealant	
Temperature (deg. C)		10				
(Expansion Type : <b>FINGER PLATES</b> )						
(Fixed Type : <b>ASPHALTIC FIBRE BOARD</b> )						
Gap Size (mm)		Gap Location				
80		abut. #1				
		pier #1				
		pier #2				
69		abut. #2				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		1				
Bridge Rail			4	6	Bolt has been replaced	
(Type : <b>VERTICAL BAR</b> )						
Bridge Rail Posts			6	6	PEELING OF PAINT, SOME CORROSION AT SCRAPES.	
(Type : <b>POST STEEL;POST STEEL</b> )						
Bridge Rail/Posts Coating			4	4		
(Type : <b>PAINT</b> )						
Sidewalk			X	X		
<b>Girder Detail Ratings</b>						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Girders			6	6	Minor shoe plate cracks  6/span	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>18</b> )						
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 18.3-21.3-18.3, A-Ident Number: )				
Bearings		6	6	Surface Corrosion @ abut bearings from drainage roller bearing at A1, A2, & P2 pinned bearing at P 1
Temperature (deg. C)	18			
(Expansion Type : <b>ROLLER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	7.8 m HEIGHT
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>3:3</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	slurry-parged Stained-active leakage @ S pier
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				West East
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.0			(970825)
Drift (Y/N)	No			
Slope Protection		7	7	COBBLES TO CLASS 1m AT TOE OF HEAD- SLOPES.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
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>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2013	Concrete overlay					
REPAIR/REPLACE DECK JOINTS	2013	Water proof joints @ piers					
RESET/ PAINT BEARINGS	2013	Recoat bearings					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Assess for lateral stressing					
OTHER ACTION	2012	Remove rope from utility conduit					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>75.4/75.4</b>	Est. Repl. Yr	2035	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	11-Sep-2015		Previous Inspection Date	09-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							