Bridge Inspection

Bridge File Number	01161 -3 Bridge	Form Type	PSR
Year Built/Year Supstr	1998/1998	Lot No.	4
		Inspector Name	Garry Roberts
Bridge or Town Name	STAVELY	Inspector Class	BR CLS A
Located Over	PINE CREEK, 2.12.25.8, WATERCRS-ST	Assistant Name	
Located On	527:02 C1 7.858	Assistant Class	
Water Body Cl./Year		Inspection Date	22-May-2010
Navigabil. Cl./Year		Data Entry By	Alyssa Boynton
Legal Land Location	SE SEC 15 TWP 14 RGE 28 W4M	Data Entry Date	17-Aug-2010
Longitude, Latitude	-113:44:06, 50:09:53	Reviewer Name	Ash Morjaria
Road Authority	Alberta Transportation (AIT)	Review Date	28-May-2010
Contract Main. Area	CMA26	Dept. Reviewer Name	Lorenz Bohnert
Clear Roadway/Skew	9.1 /	Dept. Review Date	18-Aug-2010
AADT/Year	490 / 2009 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	3		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		CS750					---> 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	Pine Coulee Reservoir

Utilities (Located at)

Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE		
Telephone	S RW	Gas	1W @ N RW
Power	North Row	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	In vertical sag curve
Vertical Alignment		6	7	
Roadway Width (m)	10.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			150x150 HSS on 60x75 I-beam posts
Guardrail		9	8	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		8	7	
Approach Road General Rating		**6**	**7**	

Superstructure

Bridge Component		Last	Now	Explanation of Condition
(Primary Span : **DBT, 2 Spans, Lengths(m): 28-38, 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	0.0	0.0	0.0	0.0
Wearing Surface		6	6	Moderate transverse cracks
(Material Type : **ACP**)				
(Thickness(mm) : **50**)				
Lateral Connection Problem (Y/N)	No			
Deck Top		N	N	
Deck Rideability		8	8	
Deck Joints		8	8	1 loose boltat NW curb cover plate
Temperature (deg. C)	12			
(Expansion Type :)				
(Fixed Type :)				
Gap Size (mm)	Gap Location			
90	W abut			
80	E abut			
Deck Drainage		4	5	All but one of six drains are missing grates @ deck
Drains Clogged (Y/N)	No			
Curbs/Median		8	8	
(Curb Type : **Standard**)				
Scaling (Percent Area)	0			
Bridge Rail		8	8	Most anchor bolts-steel without galvanizing-all surface corroded
(Type : **BRIDGE TUBE**)				
Bridge Rail Posts		8	8	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)				
Bridge Rail/Posts Coating		8	6	
(Type :)				
Sidewalk		X	X	
Girder Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	0
Now	0	0	0	0
Girders		8	8	8 lines continuous girders
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : **100007**)				

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **DBT, 2 Spans, Lengths(m): 28-38, A-Ident Number:**)				
Diaphragms/Cross Frame		8	8	
Bearings		5	6	Pins bent towards stream 10mm @ W beyond max contraction @ W Pins bent 5 to 20mm towards stream @ E-have been beyond max contraction @ E Exp @ abuts and fixed neopad at pier
Temperature (deg. C)	12			
(Expansion Type : **REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL**)				
(Fixed Type : **REINFORCED PAD BEARING**)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		**5**	**6**	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Abutments				
Bearing Seats/Caps		8	8	
(Type : **CONCRETE**)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		7	8	
Scour/Erosion		9	7	
Piers/Bents				
(Type : **PIER-SOLID**)				
Bearing Seats/Caps		8	8	
(Type : **CONCRETE**)				
(Total Number of Bearing Piles : **0**)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		9	8	
Paint/Coating		7	7	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	To Deep
Debris (Y/N)	No			
Substructure General Rating		**7**	**8**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **N**)				Reservoir
(D/S Direction : **S**)				
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)	4.0			No visable HWM
Drift (Y/N)	No			
Slope Protection		9	8	
(Type : **RIP RAP; RIP RAP**)				
Guidebank/Spurs		8	8	
Adequacy of Opening		9	7	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**9**	**8**	

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						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**66.7/77.8**	**Sufficiency Rating (Last/Now) (%)**	**70.0/72.4**	Est. Repl. Yr	2063	Maint. Reqd. (Y/N)	No

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	Tom Carey	Previous Assistant's Name			
Next Inspection Date	22-Aug-2013	Previous Inspection Date	04-Dec-2006		
Inspection Cycle (Default) (months)	39				
Comment					