Bridge Inspection

Bridge File Number	02109 -1 Bridge	Form Type	PCS
Year Built/Year Supstr	1969/1969	Lot No.	3
		Inspector Name	Jon Davies
Bridge or Town Name	STIRLING	Inspector Class	BR CLS B
Located Over	KIPP COULEE, 11.9.6, WATERCRS-ST	Assistant Name	
Located On	846:02 C1 3.284	Assistant Class	
Water Body Cl./Year		Inspection Date	11-Jun-2012
Navigabil. Cl./Year		Data Entry By	Kelsey Roberts
Legal Land Location	SW SEC 28 TWP 6 RGE 19 W4M	Data Entry Date	27-Jun-2012
Longitude, Latitude	-112:30:60, 49:29:40	Reviewer Name	Garry Roberts
Road Authority	Alberta Transportation (AIT)	Review Date	15-Jun-2012
Contract Main. Area	CMA25	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	8.2 /	Dept. Review Date	29-Jun-2012
AADT/Year	880 / 2011 (A)	Follow-Up By	
Road Classification	RCU-208-110		
Detour Length (km)	5		

Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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 Required							

Hazard Marker At Bridge (Y/N)	No
Remarks	
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone	CONDUIT ALONG WEST SIDE	Gas	
Power	3 LINE GOES E-W 40 M SOUTH	Municipal	
Others	Fibre Optics East Ditch	Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection at south and residences
Vertical Alignment		8	8	
Roadway Width (m)	9.000			
Approach Bump		8	7	
Guardrail (Y/N)	Yes			SE turndown not attached from mower damage.
Guardrail		7	3	No thriebeam
Length (m)	22.800			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		**7**	**7**	

Superstructure

Bridge Component				Last	Now	Explanation of Condition
(Primary Span : **HC, 1 Spans, Lengths(m): 10.1, 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				9	7	
(Material Type : **ACP**)						
(Thickness(mm) : **70**)						
Lateral Connection Problem (Y/N)			No			
Deck Top				N	N	
Deck Rideability				9	8	
Deck Joints				N	N	Paved over
Bump (Y/N)			No			
Deck Drainage				7	7	
Drains Clogged (Y/N)			No			
Curbs/Median				7	7	CORNERS SPALLED MINOR
(Curb Type : **Standard**)						
Scaling (Percent Area)			1			
Bridge Rail				6	6	SINGLE LAYER - DENTED NE CORNER
(Type : **STEEL FLEX BEAM**)						
Bridge Rail Posts				7	7	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)						
Bridge Rail/Posts Coating				7	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				5	4	Wide crack in AZ of G1, G6, G9 and G10 at 1 leg only and in sound concrete. Spall in G1 inside AZ at A2. Wide crack in AZ of G2 in unsound concrete 1 leg only. Hairline shear cracks both legs of G5 at A2.
Last Complete Inspection Date			11-Jun-2012			
Cracking (Y/N)			Yes			
Spalling (Percent Area)			1			
Lift or Connector Pocket Grouted (Y/N)			Yes			
(Number Of Girders : **10**)						
Span Alignment Problems						
Vertical (Y/N)			No			
Horizontal (Y/N)			No			
Superstructure General Rating				**5**	**4**	

Substructure

Bridge Component		Last	Now	Explanation of Condition
Abutments				
(Extended Backwall Piles (Y/N) : **Y**)				
(Extended Backwall Piles Spacing(mm) : **1500**)				
(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	0	0	0	0
Bearing Seats/Caps/Corbels		6	5	
(Type : **TREATED TIMBER**)				
(Depth(mm) : **356**)				
(Width(mm) : **305**)				
Backwalls/Breastwalls		7	6	Breastwall aded at south abut.
Greatest Height (m)	1.80			
Wingwalls		7	6	
(Total Number of Bearing Piles : **7:8**)				
Piles Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	0
Now	8	0	0	0
Piles		6	5	A1 piles behind breastwall.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		6	6	
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		X	X	
Greatest Height (m)				
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		**6**	**5**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **E**)				
(D/S Direction : **W**)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)	1.5			No visible HWM
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : **RIP RAP; RIP RAP**)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**6**	**6**	

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	2012	Replace 1 section of flex beam and 1 turndown at SE.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**61.1/50.0**	**Sufficiency Rating (Last/Now) (%)**	**69.9/61.8**	Est. Repl. Yr	2025	Maint. Reqd. (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	20-Jun-2009
Inspection Cycle (Default) (months)	39		
Comment			