Bridge Inspection

Bridge File Number	70789 -1 Bridge	Form Type	SG
Year Built/Year Supstr	1985/1985	Lot No.	4
		Inspector Name	Jason Saly
Bridge or Town Name	G BAYNTON BR	Inspector Class	BR CLS A
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	17:08 C1 33.967	Inspection Date	27-Jun-2012
Water Body Cl./Year		Data Entry By	Marcia Chavez
Navigabil. Cl./Year		Data Entry Date	13-Jul-2012
Legal Land Location	SE SEC 25 TWP 53 RGE 1 W4M	Reviewer Name	John O'Brien
Longitude, Latitude	-110:00:39, 53:36:13	Review Date	05-Jul-2012
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	Andrew Smikles
Contract Main. Area	UNDEFINED CMA	Dept. Review Date	19-Jul-2012
Clear Roadway/Skew	9 /	Follow-Up By	
AADT/Year	1,820 / 2011 (A)		
Road Classification	RAU-211.8-110		
Detour Length (km)	5		

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		MS230					---> 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)	Yes
Remarks	Not to std. - too low.
Other Sign Types	Bridge name sign "George F. Baynton". River ID.

Utilities (Located at)

Utility Attachments			
Telephone	SGT cables buried @ both abut, E side.	Gas	
Power		Municipal	
Others	Flow gauges both abuts.	Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves at top of both river banks.
Vertical Alignment		5	5	Steep grades in both directions of bridge. (Max. 8% at S).
Roadway Width (m)	13.900			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	6	
Length (m)	26.600			
Current Standard (Y/N)	No			Insufficient lgth.
Termination Type	FLARE W. BULB			
Drainage		6	6	
Approach Road General Rating		**5**	**5**	

Superstructure

Bridge Component	Last	Now	Explanation of Condition
(Primary Span : **WG, 6 Spans, Lengths(m): 49-63-84-84-84-70, A-Ident Number: A0999-03**)			
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	7	7	H2 (150-200A)ACP, covered by chip seal coat wearing surface.
(Material Type : **ACP - CONVENTIONAL CHIP SEAL COAT**)			
(Thickness(mm) : **90**)			
Deck Top	N	N	
Deck Rideability	9	8	
Deck Joints	4	4	Plumbing allows water onto backwalls & seats at all 4 corners. Rust staining on abut conc. seats.
Temperature (deg. C) 16			
(Expansion Type : **FINGER PLATES**)			
(Fixed Type :)			

Gap Size (mm)	Gap Location
161	N. abut
197	S. abut

Deck Drainage	7	4	Due to jnt leakage.
Drains Clogged (Y/N) No			
Curbs/Median	7	6	Curbs only 140mm high. Drip groove on outside of curbs allows water to drain on girders. Transv. cracking.
(Curb Type : **Standard**)			
Scaling (Percent Area) 0			
Bridge Rail	8	7	
(Type : **GALVANIZED STEEL BRIDGE TUBE**)			
Bridge Rail Posts	7	7	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)			
Bridge Rail/Posts Coating	6	6	
(Type : **GALVANIZED**)			
Sidewalk	X	X	
Girder/Beam			
Cover Plate	X	X	Bottom flange slight sag - typ.
Flange	6	6	
Web	8	8	
Stiffeners	8	8	
Splice	8	8	
Weld	8	8	
Diaphragms/Cross Frame	8	8	

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **WG, 6 Spans, Lengths(m): 49-63-84-84-84-70, A-Ident Number: A0999-03**)				
Paint Condition		8	8	Weathering steel. Rusting uneven.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	7	All pier bearings inaccessible - viewed with binoculars.
Temperature (deg. C)	16			
(Expansion Type :)				
(Fixed Type :)				
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		**6**	**6**	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Abutments				
Bearing Seats/Caps		8	7	
(Type : **CONCRETE**)				
Backwalls/Breastwalls		8	7	
Wingwalls		8	7	
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		5	5	
Scour/Erosion		5	5	
Piers/Bents				
(Type : **PIER-SOLID**)				Middle piers not accessible.
Bearing Seats/Caps		8	8	
(Type : **CONCRETE**)				
(Total Number of Bearing Piles : **0:0:0:0:0**)				As seen from bridge deck.
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		6	N	
Debris (Y/N)	No			
Substructure General Rating		**5**	**5**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **W**)				
(D/S Direction : **E**)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : **NATURAL; NATURAL**)				
Guidebank/Spurs		8	8	Riprap armour on guidebanks, class 3.
Adequacy of Opening		8	8	
(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						
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
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) (%)	**61.1/61.1**	**Sufficiency Rating (Last/Now) (%)**	**55.2/54.6**	Est. Repl. Yr	2060	Maint. Reqd. (Y/N)	No

Special Comments for Next Inspection	Bridge is responsibility of Sask. Dept of Hwys.	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	Owen Salava	Previous Assistant's Name			
Next Inspection Date	27-Mar-2014	Previous Inspection Date	01-Sep-2010		
Inspection Cycle (Default) (months)	21				
Comment					