

Bridge Inspection											
Bridge File Number	74231 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1981/1981				Lot No.	2					
Bridge or Town Name	BERRYMOOR FY				Inspector Name	Kris Bosters					
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	759:02 C1 12.421				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	18-Oct-2012					
Legal Land Location	SW SEC 13 TWP 50 RGE 6 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:45:27, 53:18:52				Data Entry Date	23-Oct-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA11				Review Date	22-Oct-2012					
Clear Roadway/Skew	9 / 23 deg. (RHF)				Dept. Reviewer Name	Brent Herrick					
AADT/Year	940 / 2011 (A)				Dept. Review Date	13-Nov-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	30										
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	Spring mounted on 1st approach rail posts. Dirty.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Stream gauging station NW.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Bottom of sag, long uphill grade to South.				
Vertical Alignment			7	7	2 large embankment sloughing @ NE, 50m North of North abutment & 150m North of North abutment. Slough on NW approx 50m North. Pavement cracking on East side. Edge of erosion is 2.5m from guardrail. Appears stable at present.				
Roadway Width (m)	10.000				Few potholes in approach. -photo				
Approach Bump			5	5	Wide cracks in ACP-photo 50mm dip S approach.				
Guardrail (Y/N)	Yes				7 split posts NE rail, 2 split posts SW rail. # posts broken SE rail.- photos				
Guardrail			7	4					
Length (m)	99.000								
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 : WG, 3 Spans, Lengths(m): 74-92-74, A-Ident Number: A0872-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now						
Wearing Surface			8	6	Chip seal worn off at S joint and in a few locations along wheel paths.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			8	8		
Temperature (deg. C)		-4				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
100		S. abutment				
100		N. abutment				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	5	Wide medium transverse cracking 1.5m spacing. Rust stained exterior curb under posts.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	8		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			8	8		
Flange			8	8		
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, 3 Spans, Lengths(m): 74-92-74, A-Ident Number: A0872-01)				
Paint Condition		7	7	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		6	4	North bearings approx 70mm over expanded @ 4 degree. South bearings not over expanded. Viewed pier bearins with binoculars from shore. Superficial rust and staining SW bearing.
Temperature (deg. C)	-4			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Narrow transverse cracks 2m +/- white stains at cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	7	Narrow random cracks.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		6	6	Spall SE & SW side from wood inside wall - photo. Spall base NE wall - photo. Caulking & parging also failing.
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		9	9	
Scour/Erosion		9	9	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		8	8	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	7	
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		8	8	
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		8	8	South side.
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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	2013	Reset bearings.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair approach potholes.					
OTHER ACTION	2013	Replace damaged approach rail posts.					
OTHER ACTION	2013	Seal cracks in approach ACP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/61.1	Sufficiency Rating (Last/Now) (%)	67.0/58.8	Est. Repl. Yr	2055	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls in wingwalls. Monitor approach road slumps.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							