

Bridge Inspection												
Bridge File Number	76185 S-1 Bridge				Form Type	PSR						
Year Built/Year Supstr	1967/1967				Lot No.	4						
Bridge or Town Name	BREYNAT				Inspector Name	Wade Nanninga						
Located Over	WANDERING RIVER, 8.11.55.3, WATERCRS-ST				Inspector Class	BR CLS A						
Located On	63:02 C1 41.322				Assistant Name							
Water Body Cl./Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date	14-Nov-2011						
Legal Land Location	NE SEC 24 TWP 71 RGE 17 W4M				Data Entry By	Theresa Lacusta						
Longitude, Latitude	-112:28:49, 55:09:56				Data Entry Date	23-Nov-2011						
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux						
Contract Main. Area	CMA07				Review Date	23-Nov-2011						
Clear Roadway/Skew	11 / 30 deg. (RHF)				Dept. Reviewer Name	Brent Herrick						
AADT/Year	3,790 / 2010 (A)				Dept. Review Date	15-Dec-2011						
Road Classification	RAU-211.8-110				Follow-Up By							
Detour Length (km)	3											
Allowable Load (t):	Single	CS1 44 GIRDER			Semi	CS2 62 GIRDER			Train	CS3 89 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	Not required.								
Other Sign Types	Information, "Wandering River" ID.								

Utilities (Located at)										
Utility Attachments										
Telephone	West row				Gas					
Power	3 wires East row				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Access to NW.				
Vertical Alignment			6	6	Bottom of a short sag curve. No passing allowed. Limited sight distance.				
Roadway Width (m)			10.800						
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			7	7					
Length (m)			76.000						
Current Standard (Y/N)			No		No thriebeam transition.				
Termination Type			TURN DOWN.						
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			7	4	SFC overlay. Medium longitudinal crack SP1 NB near wheel path, runs along 80% of span.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	piers abuts
Temperature (deg. C)		-2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)		Gap Location			
105		South pier			
100		North pier			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	(Poorly finished patches on curbs with shrinkage cracking. Narrow transverse cracking.-11-Mar-2010) Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			6	6	Double layer. Timber spacer blocks at each post. Bases snow covered.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			6	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			5	5	S1G12, S3G8,G12 & 13 have rust spots underside. S1G12 chipped bottom East edge probably during construction, minor. Typ. long cracks G12 S3, S2,G13-bottom and along edge, extends for-0.5m (starts 0.5m from pier).
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 39)					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)					
Diaphragms/Cross Frame		X	X		
Bearings		7	7		
Temperature (deg. C)	-2				
(Expansion Type :)					
(Fixed Type : NEOPRENE STRIP BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		X	X		
Stains (Percent Area)	0				
Span Alignment Problems					
Vertical (Y/N)	No			Spans misaligned due to movement of skewed backwalls. Up to 75 mm at NE pier.	
Horizontal (Y/N)	Yes				
Superstructure General Rating		5	5		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		8	8		
(Type : STEEL)					
Backwalls/Breastwalls		7	7		
Wingwalls		X	X		
Piles		N	N	Steel capitals installed.	
Paint/Coating		7	7		
Abutment Stability		7	7		
Scour/Erosion		5	5	Settled at top of headslope.	
Piers/Bents					
(Type : PIER-COLUMN)					
Bearing Seats/Caps		6	6		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 8:8)					
Pier Shaft/Piles		6	6	P3 N pier field weld running along pile-2.0m visible.	
Bracing/Struts/Sheathing		6	6		
Nose Plate		X	X		
Paint/Coating		4	5	Paint flaking off for 300mm above waterline.	
(Colour Description :)					
(Colour Code :)					
Pier Stability		8	8		
Scour		6	6		
Debris (Y/N)	Yes			Old pile in SB	
Substructure General Rating		6	6		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				Sweeping 90 degree bend 75 m U/S.
(D/S Direction : W)				
Alignment		6	6	
Bank Stability		6	6	Bank slumping at outside of bend D/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Settled headslopes.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	70.2/70.1	Est. Repl. Yr	2024	Maint. Req. (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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	14-Aug-2013		Previous Inspection Date	11-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							