

Bridge Inspection										
Bridge File Number	09219 W-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1982/1982				Lot No.	2				
Bridge or Town Name	MAGNOLIA BRI				Inspector Name	Wade Nanninga				
Located Over	TRIBUTARY TO STURGEON RIVER, 6.65.27, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	16:12 L1 8.493				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Aug-2012				
Legal Land Location	SE SEC 19 TWP 53 RGE 6 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:51:45, 53:35:19				Data Entry Date	21-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA12				Review Date	21-Aug-2012				
Clear Roadway/Skew	13.1 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	7,890 / 2011 (A)				Dept. Review Date	22-Aug-2012				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS300								----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
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)	Yes								
Remarks	On flexbeam post East end.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w.				Gas				
Power	4 wires North r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	SH 757 to east.				
Vertical Alignment			7	7					
Roadway Width (m)		12.800			E approach has bump				
Approach Bump			7	5					
Guardrail (Y/N)		Yes			Not standard length, not thrie beam transition. Minor creasing, still functional. Sheared bottom bolt @ SW transition connection - photo. No guardrail @ NW.				
Guardrail			4	4					
Length (m)		42.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			4	4	Drain trough broken @ SW & NW. Gap between ACP & curb at SE approach allows water under curb. NE eroding next to WW 0.3x0.1				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 30, 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	7	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			6	6	
Deck Rideability			7	7	
Deck Joints			3	3	North half of East abutment joint replaced with gland type joint, South half remains armoured gland. (West joint gland failed, leaking onto seat @ G8 - photo. 06/Dec/2008)
Temperature (deg. C)		25			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
56			East abutment		
50			West abutment		
Deck Drainage			4	4	West joint leaks onto abutment seat.-old stains
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Typical narrow vertical cracks on exterior of curb at post anchor bolts.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Minor scrapes at a few locations. Rusting at base plate.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		8	8		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now				1	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 30, A-Ident Number:)				
Girders		4	3	Curb girders have typical DBT cracks which extend into web & top flange. Marked crack at SE has propagated into flange since last inspection. SW extending into flange & narrow. Narrow vertical crack @ SW 75mm from end.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 10)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	Pinned - A1.
Temperature (deg. C)	25			
(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		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		5	5	Narrow random cracks with efflorescence staining.
Piles		N	N	
Paint/Coating		4	4	Staining on approx 15%, peeling.
Abutment Stability		8	8	
Scour/Erosion		4	4	Both headslopes have settled exposing base of caps. 0.5m wide x 0.3m deep erosion SW corner of backwall.
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		5	5	SE bank vertical cut caused by flow impact/erosion, not affecting bridge.
HWM (m below Top of Curb)				HWM not visible. Old pile in SE.
Drift (Y/N)	No			
Slope Protection		5	5	Average rock size 300mm dia.
(Type : RIP RAP; RIP RAP)				
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	2012	Flood joint & repair leaks.-if not done already.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Seal gap between approach ACP & curb.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	62.6/59.7	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks SE & NW marked.		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	10-May-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							