

Bridge Inspection										
Bridge File Number	72168 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1974/1974				Lot No.	2				
Bridge or Town Name	THERIEN				Inspector Name	Arnold Assenheimer				
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	881:16 C1 31.503				Assistant Name	Wade Nanninga				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	10-Sep-2010				
Legal Land Location	SE SEC 21 TWP 63 RGE 9 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:17:45, 54:27:37				Data Entry Date	12-Oct-2010				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan				
Contract Main. Area	CMA08				Review Date	20-Sep-2010				
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	490 / 2009 (A)				Dept. Review Date	14-Oct-2010				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	32									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	HS25						----> 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 standard height or location.								
Other Sign Types	"Beaver River", Curve.								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curve and steep grades to South & North. No passing both ways.					
Vertical Alignment		6	6						
Roadway Width (m)	9.500			Insufficient length					
Approach Bump		7	7						
Guardrail (Y/N)	Yes								
Guardrail		7	7						
Length (m)	41.800								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage		7	7						
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>						

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RD, 4 Spans, Lengths(m): 16.8-16.8-16.8-16.8, A-Ident Number: )							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>							
<b>Now</b>							
Wearing Surface			8	8	SF concrete with reinforced steel fibre. Steel fibres rusting. Shoulder paint lines removed, typical both sides - photo.-12-Jun-2007		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )							
(Thickness(mm) : <b>50</b> )							
Lateral Connection Problem (Y/N)	No						
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			8	8			
Temperature (deg. C)		10					
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
(Fixed Type : )							
Gap Size (mm)		Gap Location					
72		P1					
73		P2					
73		P3					
Deck Drainage			7	7	No deck drains.		
Drains Clogged (Y/N)							
Curbs/Median			4	4	3 patches failing on West curb, South and center span.		
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		1					
Bridge Rail			8	8	Superficial rust on edges of 1/3 post base plates.		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )							
Bridge Rail Posts			8	8			
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating			5	5			
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
<b>Girder Detail Ratings</b>							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Girders			5	5	G1/S4 @ P3, crack is less than 500mm long. Med long crack in G7 S1.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : <b>32</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 4 Spans, Lengths(m): 16.8-16.8-16.8-16.8, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		8	8	Piers abut
Temperature (deg. C)	12			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	N	
Wingwalls		8	8	
Piles		X	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				Small chip in NW corner of P3 cap. Delam crack NW corner of P3 cap-photo.
Bearing Seats/Caps		5	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5:5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		4	4	Extra bracing at U/S section of web plating. Bottom 1.0 m of center pier piles has no paint, pitting rusting. Coating peeling on pier caps.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		8	7	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>4</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type : <b>NATURAL; NATURAL</b> )		7	6	
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>6</b>	

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	2010	Re-install hazard markers to meet std.					
OTHER ACTION	2010	Patch delam crack/spall @ pier 3.					
OTHER ACTION							
OTHER ACTION	2010	Seal pier caps.					
OTHER ACTION	2010	Paint lower 1.5m of P2 piles/bracing at major rehab.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.4/56.6</b>	Est. Repl. Yr	2034	Maint. Req. (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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	10-Dec-2013		Previous Inspection Date	12-Jun-2007			
Inspection Cycle (Default) (months)	39						

Comment	
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