

Bridge Inspection							
Bridge File Number	01664 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1969/1969			Lot No.	2		
Bridge or Town Name	HEART RIVER			Inspector Name	Brian Pientsch		
Located Over	SOUTH HEART RIVER, 8.11.80.54, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	749:04 C1 10.832			Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year				Assistant Class	BR CLS B		
Navigabil. Cl./Year				Inspection Date	30-Nov-2010		
Legal Land Location	NW SEC 30 TWP 75 RGE 16 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-116:29:05, 55:31:47			Data Entry Date	17-Jan-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Arnold Assenheimer		
Contract Main. Area	CMA06			Review Date	23-Dec-2010		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	David Morrison		
AADT/Year	880 / 2009 (A)			Dept. Review Date	24-Feb-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	65						
Allowable Load (t):	Single	CS1 52 GIRDER	Semi	CS2 62 GIRDER	Train	CS3 76 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							

Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	ICY PATCHES						

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Conduit under W curb stringer		Gas
Power	3 wire o/h East r/w.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field entrances @ each end.
Vertical Alignment		7	7	
Roadway Width (m)	9.600			Guardrail not connected to bridgerail insufficient posts and length.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	11.400			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		4	4	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 25.9-25.9-25.9, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : UNDERSLUNG DIAPHR)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partially snow covered.
Last	0	0	0	0	
Now	50.0	0.0	0.0	0.0	
Wearing Surface		5	5		
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		3	N	NW curb cover plate sticking up 50mm,missing 1 bolt (26-Aug-2007)	
Temperature (deg. C)		-3		Curb cover plates @ A1W & P1W protruding 15mm from curb.-26-Aug-2007	
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
90		N abut			
78		N pier			
76		S pier			
80		S abut.			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		3	N	SE transition curb has rebar showing - 1.5m long (photo).-26-Aug-2007	
(Curb Type : Standard)					
Scaling (Percent Area)		0		Snow covered.	
Bridge Rail		7	7	Deteriorated grout pads @ NW.-26-Aug-2007	
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		4	N	Snow covered.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders		4	4	Cracking at champher line going into deck typical.Spall S3G6 W leg over pier 2 (150 x 100) at shoe plate.	
Cracking (Y/N)		Yes		N pier NW corner outside leg cracked @ bearing.-S3G1	
Spalling (Percent Area)		1		S2G1 rust spot at centre, S3G6 rust and crack at abut 2 and pier 2.	
(Number Of Girders : 18)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 25.9-25.9-25.9, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Cracking at end diaphragms & spalling.
Bearings		4	4	S abut. 2nd girder SW corner pad out of place 47mm. Most of the bearings distorted up to 30mm.(photo) Shim rusting. Shoe plates on girders scaling rust
Temperature (deg. C)	-3			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Horizontal delamination cracks along top of piers. Staining on both pier caps.(NEW DECK JOINTS PREVENTING FURTHER STAINING OR DETERIORATION) Wide crack NW corner pier 2
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Pitting & rusting lower 600.
(Colour Description : BLUE)				
(Colour Code : 502-105)				
Pier Stability		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)	2.0			(HWM 2.0m below girder.(1995.02.22)
Drift (Y/N)	Yes			
Slope Protection		6	4	South headslope concrete protection heaving.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	4	

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	2011	Repair NW cover plate.-carried over 26-Aug-2007					
OTHER ACTION	2011	Patch curbs,grout pads,drain,and diaphragm.-carried over 26-Aug-2007					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	54.2/51.3	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	28-Feb-2014		Previous Inspection Date	26-Aug-2007			
Inspection Cycle (Default) (months)	39						
Comment							