

Bridge Inspection											
Bridge File Number	13117 -1 Bridge					Form Type	SG				
Year Built/Year Supstr	1955/1955					Lot No.	1				
Bridge or Town Name	NAMPA					Inspector Name	Brian Pientsch				
Located Over	HEART RIVER, 8.10.56, WATERCRS-ST					Inspector Class	BR CLS A				
Located On	2:60 C1 12.732					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	15-Dec-2012				
Legal Land Location	NW SEC 30 TWP 81 RGE 20 W5M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:07:45, 56:03:20					Data Entry Date	22-Jan-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04					Review Date	08-Jan-2013				
Clear Roadway/Skew	8.5 / 20 deg. (RHF)					Dept. Reviewer Name	David Morrison				
AADT/Year	2,960 / 2011 (A)					Dept. Review Date	20-Feb-2013				
Road Classification	RAU-211.8-110					Follow-Up By					
Detour Length (km)	10										
Allowable Load (t):	Single	CS1 43 GIRDER			Semi	CS2 55 GIRDER		Train	CS3 68 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									
Other Sign Types	"North Heart River", Narrow bridge, Curve, Heart River Golf Course.								

Utilities (Located at)										
Utility Attachments										
Telephone	20m & 35m east of centerline.					Gas				
Power	30m E of centerline.					Municipal				
Others	Water guage station, 100m W.					Problem (Y/N)	No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve to the south.				
Vertical Alignment			5	5	Crest curve to the north - limited sight distances. No passing.				
Roadway Width (m)			11.400		Bump both approaches, spalling around North joint causing severe bump.-photo				
Approach Bump			3	4					
Guardrail (Y/N)			Yes		NE guardrail, 1 post taken out for drain trough installation. Missing 3 splice bolts.-02-Dec-2005				
Guardrail			4	N					
Length (m)			38.000		Insufficient posts next to bridge and rail length.				
Current Standard (Y/N)			No		Snow covered				
Termination Type			TURNED DOWN		4 posts and 5 sections on NW approach rail damaged due to accident.-photo				
Drainage			4	3	Heavy buildup of chips & debris under guardrail.				
Approach Road General Rating			3	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 21.9-27.4-21.9, A-Ident Number: A0232-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Slush and snow covered.	
Last						
Now	90.0					
Wearing Surface			4	N	New chipseal coat partly covering up deteriorating deck.-19-Jan-2011 10-15 chipseal coat worn off.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			5	5		
Deck Joints			2	N	Joints leaking into backwalls causing concrete deterioration. Both joints partly covered in asphalt but appear to be jammed tight.-19-Jan-2011 Deck joint plumbing is damaged.-photo Concrete from deck joint anchorage falling onto N. abut. seat.-photo	
Temperature (deg. C)		-12				
(Expansion Type : SLIDING PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location		Snow covered		
		S. abut				
		N. abut				
Deck Drainage			4	4	Drains should be along curb & not 400mm away.	
Drains Clogged (Y/N)		No				
Curbs/Median			3	3	E curb exterior edge, 2 areas spalling, rebar exposed. 1 section 3.0m long has spalled over S pier, W. Snow covered	
(Curb Type : Standard)						
Scaling (Percent Area)		20				
Bridge Rail			3	N	Accident damage to top rail @ NE corner.-photo Concrete at underside of post anchors deteriorated. One post cap missing at NW.-19-Jan-2011 Snow covered. Missing 1 anchor bolt and 1 loose anchor nut at the SW corner.-27-Jun-2009	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		2	N			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	N		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			5	5	Bottom flanges rusting.	
Flange			4	4		
Web			5	5		
Stiffeners			5	5		
Splice			5	5		
Weld			5	5		
Diaphragms/Cross Frame			5	5		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 21.9-27.4-21.9, A-Ident Number: A0232-01)				
Paint Condition		4	4	Some peeling & rusting on bottom flanges.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		3	3	Jammed on south abutment. Overextended by 100mm at S. abut.-photo S. abut. brgs rusting severely. Abut. brgs in expanded position. - photo
Temperature (deg. C)	-12			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		2	2	Random hline crking thru-out. Leaking thru crks. Deck debonded from all girders @ both abutments. Underside of deck delaminating at corners adjacent to joints.-photo Severe efflorescence staining indicating deck concrete structually deficient-rust staining also present.
Stains (Percent Area)	50			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		2	2	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Hor. cracks, concrete delaminations both abut. seats.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Vertical cracks, concrete delaminations both backwalls.
Wingwalls		4	N	Concrete scaling.-19-Jan-2011 Snow covered
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		3	3	Both abutments have moved toward stream.
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				Both piers have one vertical crack 1 mm wide x 2 m long.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		4	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		4	4	N. headslope slumping into river with erosion @ NE toe of slope..
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	3	Toe undermined on N. headslope. Silt build up 1.5m on S. side of S. pier.
(Type : CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Accident damage NE corner, anchorage zone for bridge post bases..					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013						
SEAL DECK							
OVERLAY DECK	2013						
REPAIR/REPLACE DECK JOINTS	2013						
RESET/ PAINT BEARINGS	2013						
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2013						
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Bridge scheduled for replacement. Consider advancing schedule. Replace ASAP - Potential of holes breaking through deck at anytime.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	27.8/27.8	Sufficiency Rating (Last/Now) (%)	25.0/31.8	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Low Rating Advisory sent to Alan Saunders and Dave Morrison 19-Dec-2012		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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	15-Sep-2014		Previous Inspection Date	04-Jun-2012			
Inspection Cycle (Default) (months)	21						
Comment							