

Bridge Inspection									
Bridge File Number	72631 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1970/1970				Lot No.	2			
Bridge or Town Name	TRUMAN				Inspector Name	Wade Nanninga			
Located Over	SAND RIVER, 7.11, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	55:16 C1 7.654				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Apr-2012			
Legal Land Location	NW SEC 20 TWP 63 RGE 8 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-111:11:12, 54:28:02				Data Entry Date	24-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA08				Review Date	17-Apr-2012			
Clear Roadway/Skew	8.5 / 10 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,590 / 2011 (A)				Dept. Review Date	04-May-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	40								
Allowable Load (t):	Single	CS1 40 GIRDER	Semi	CS2 50 GIRDER	Train	CS3 66 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
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	Not on bridgerail posts 1.5m out of line.								
Other Sign Types	Information, "Sand River", Narrow Bridge, Chevrons @ NE & SW corners.								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	3 wires OH 25 m North of c/l.				Municipal				
Others	WSC gauge NW.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Long curve to west, no passing. 4% grades up in both directions.				
Vertical Alignment			5	5					
Roadway Width (m)	12.600				75.1m @ NE & SW; 34.3m @ NW & SE. No thrie beam				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			4	6					
Length (m)	34.300								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			3	3	SE drain troughs cracked. Troughs extend only part way down headslope. Approach drainage causing erosion of headslope @ SE - photo.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 22.9-24.4-22.9, A-Ident Number:)					
Special Features					
Special Feature		8	8	Underslung diaphragms	
(SType : EXT SHEAR STIRRUP)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		6	5	SF with fibres. Few small ACP patches	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		6	6		
Deck Joints		4	4	Finger joint @ SW & NE corner rattles under traffic. - 14 Jul 2010 @ abutments @ piers	
Temperature (deg. C)	-5				
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)	Gap Location				
20	West abutment				
10	East abutment				
75	East pier				
85	West pier				
Deck Drainage		4	4	(Bird baths @ posts 10 to 15 North side & posts 16 to 18 South side - photo. - 14Jul2010)	
Drains Clogged (Y/N)	No				
Curbs/Median		5	5	Most finish is weathered/peeling from exterior face at South curb.	
(Curb Type : Standard)					
Scaling (Percent Area)	5				
Bridge Rail		7	7	Approx 10% of grout pads are deteriorated. Insufficient thread on all anchor bolts in N rail Rusting at post bases Some grout pad delam. Dirty	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		X	5		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	1	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 22.9-24.4-22.9, A-Ident Number:)				
Girders		6	3	Span 2 girders viewed from banks. Minor scaling 1 leg of G5SP3 Wide vertical delam crack 100mm from girder end SP2G1 - photo
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		5	5	Corrosion spots in 30% diaphragms
Bearings		4	4	SP1G2 West abutment neoprene pad out of position, 90mm, still supporting girder - photo. Some other bearing pads are distorted. Pier bearings viewed from banks-only outside bearings visible.
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Typical rust stains at weep tubes.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			West abutment finger joints shifted north, very minor.Bearing pads distorted
Horizontal (Y/N)	Yes			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		5	5	Scaling @ SE
Abutment Stability		7	7	
Scour/Erosion		3	3	Erosion @ SE corner extends below base of abutment.-photo
Piers/Bents				
(Type : PIER-SOLID)				Piles buried. (Extensive scaling @ base of piers. 14Jul2010)
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				Several rust spots on all faces. P1 has several med. vert. cracks, some with corrosion/efflorescence stains
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	60% rusting on nose plate. (70% worn off. 14Jul2010)
Paint/Coating		4	4	
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		3	3	Erosion SE - photo.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	Insufficient rock.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		3	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Redo delam grout pads at major rehab.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2012	Reset when in area or at next major rehab.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2012	With headslope repair.					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Reset hazard markers to proper location & height.					
OTHER ACTION	2012	Fix headslope erosion @ SE corner, extend concrete troughs.					
OTHER ACTION	2012	Determine if retrofit drains are required due to birdbaths on gutters.					
OTHER ACTION	2012	Patch G1SP2 @ E pier					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	39.7/36.8	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor finger plates and bearing pad. If bearing pad continues moving, resetting is recommended.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	09-Jan-2014		Previous Inspection Date	14-Jul-2010			

Inspection Cycle (Default) (months)	21
Comment	