						Br	idge lı	nspection							
Bridge File Number 08495 -1 Bridge								Form Type			SG				
Year Built/Year		1958/1958						Lot No.			1				
Supstr								Inspector Name			Arnold Assenheimer				
Bridge or Town Name REDWATER								Inspector Class			BR CLS A				
Located Over			TER RIV	ER, 6.63	, WATER	CRS	S-ST	Assistant Name			Wade Na	nninga			
Located On		644:02 (21 2.489					Assistant Class			BR CLS	В			
Water Body CI./	-							Inspection Date			19-May-2	2011			
Navigabil. Cl./Year								Data Entry By			Theresa	Lacusta			
Legal Land Location SE SEC 28 TWP 57 RGE 21 W4								Data Entry Date			09-Jun-2	011			
Longitude, Latitude -113:03:43, 53:56:56								Reviewer Name			Stew Hag	gan			
Road Authority			Transport	ation (Al	T)			Review Da	te		31-May-2	2011			
Contract Main. A		CMA07						Dept. Revie	ewer N	lame	Brent He	rrick			
Clear Roadway/	Skew	7.9 /						Dept. Revie	ew Dat	e	14-Jun-2	011			
AADT/Year		1,400 / 2						Follow-Up	Ву						
Road Classificat		RCU-20	9-110					-							
Detour Length (k		5													
Allowable Load ((t): Sin	gle H 6	1 RDER		Semi	HS GIR	78 DER		Train		S3 127 IRDER		> On Critical Spans >Critical Member > Primary Span		
Design Loading:		HS			<u> </u>										
Sooigh Louding.			20			Pos	stina li	nformation							
Required Load F	Postina	(t)		Single			, ing i	Semi				Truc	k Train		
Posted Loading		(-)		Single				Semi					k Train		
Posted:	Lane	EB			At Junction (Y/N)		٩o		ance ()	nce (Y/N) No			ridge (Y/N)	No	
Posted:	Lane			tion (Y/N					No			No			
		quired.		, a cano		/ .				.,,				110	
Hazard Marker A			No												
Remarks		<u>je (1/11)</u>	Not rec	wired											
Other Sign Type	c		Notree	uneu.											
other olgh Type	.5					Utili	ities (l	Located at)							
Utility Attachmer	nts					oun	1100 (1								
Telephone	South	r/w						Gas							
Power			/w. 3 wire	es crossin	n road 30)m \	Nest	Municipal							
	of site		. o mic				1001	Problem (Y/N) No							
Others									// / /						
Remarks															
						A	pproa	ich Road							
					La	st	Now	Explanatio	on of C	ondit	ion				
Horizontal Alignr	ment					7	7	Intersection	Intersection to west.						
Vertical Alignme	nt					7	7								
Roadway Width	(m)		9.000												
Approach Bump				3	4										
Guardrail (Y/N)			Yes							orrect lap at existing ends. New timber blocking loose @ SW					
Guardrail						4	4	transition. N 91.44m - N				- NW &	SW.		
Length (m)			36.200					91.44m - NE; 36.2m - SE; 45.6m - NW & SW.							
Current Standa	ard (Y/	N)	No												
Termination Type Turned Down															
Drainage						3	4	Void under west approach - photo. Settlement of approach sla causing dip & cracking ACP.			oach slab				
								causing dip	o & cra	скіпд	ACP.				

						Supers	tructure
Bridge Com	ponent			L	.ast	Now	Explanation of Condition
(Primary Spa	n : RB, 3 Spa	ans, Len	gths(m): 15.2	2-15.2-15.	.2, A	Ident I	Number: A0297-01;A0297-02;A0297-03)
Special Feat	ures					-	
Special Featu	ure				7		Tension rods over bearings @ piers.
(Type :)							
Special Feature						Х	
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3	6 (%)		
Last	5						
Now							
Wearing Surf	ace				6	5	Chipseal over epoxy wearing surface on concrete. Tranverse cracks
(Material Ty COAT)	/pe : CONCRI	ETE - C	ONVENTION	AL CHIP	SEA	L	over pier where there is no joint. Loss of chipseal: <1%.
(Thickness	(mm) : 50)						
Deck Top					Ν	N	
Deck Rideab	ility				7	7	
Deck Joints					3	3	Loose cover plate and 2 sheared bolts @ WBL at East end - photo.
Temperatu	re (deg. C)	2	0		•	Ū	Paving lips are deteriorating.
· · · · · · · · · · · · · · · · · · ·	Type : ARMC				R FI	NGER	-
OR SLIDIN	G PLATES))						
(Fixed Type	e:)						
Gap Size (r	nm)		Gap Location	n			
82	82 East end						
87			West end				-
Deck Drainag	ge				6	6	Birdbath on centre span, South curb04-May-2009
Drains Clog	-	N	lo				
Curbs/Media					3	3	Wide crack on 50% of south curb face. Heavy scaling/delam @
(Curb Type	: Standard)						bottom of vertical inside face, South side. Estimate 1m2 of delam.
Scaling (Pe		5					
Bridge Rail	,				4	4	Double laver.
	LVANIZED S	TEEL FI	EX BEAM)				Missing 4 bolts/splice, typical - photo. Insufficient thread on 1/3 of
Bridge Rail P)		4	4	anchor bolts.
		OST ST	EEL:GALVA				
STEEL)			, •, •, •, •, •, •, •, •, •, •, •, •, •,				Dirty.
Bridge Rail/P	osts Coating				7	7	-
(Type : GA	LVANIZED)						
Sidewalk					Х	Х	
Girder/Beam						-	
Cover Plate	9				3	3	There are 15 crack indications at ends of cover plates and 1 stitch
Flange			6			6	weld crackedfrom UT report 04-May-2009
Web					7	7	
Stiffeners					Х	Х	
Splice					Х	Х	
Weld					3	3	
Diaphragms/	Diaphragms/Cross Frame					3	There are 11 cracked welds attaching diaphragms to webfrom UT report 04-May-2009

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Paint Condition (Colour Description :)	engths(m): 15.2-15.2-	Last	Now	tructure Explanation of Condition Number: A0297-01;A0297-02;A0297-03)
Paint Condition (Colour Description :)	engths(m): 15.2-15.2-	15.2, A	-Ident N	Number: A0297-01;A0297-02;A0297-03)
(Colour Description :)				· · · · · · · · /
· · · · ·		4	4	Diaphragms welded to girder. Top coat peeling. Bottom of girders beginning to spot rust, approx 2% of total surface area.
			beginning to spot rust, approx 2% of total surface area.	
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	Appears to be seized. Tie rods across pier negates expansion
Temperature (deg. C)	20			movements and are overexpanded 20mm. Bearing surfaces now pitted and poor.
(Expansion Type : SLIDING P	LATE)			
(Fixed Type : PINNED BEARI	NG)			
Coating Adequate (Y/N) No				
Functioning (Y/N)	Yes			
Deck Underside		4	4	Rebar chairs set to close to bottom form, now rust showing through
Stains (Percent Area)	1			S3G3/G4 - photo. Jackhammer spalls in S1G1/G2 - photo. Random medium crack, longitudinal & transverse.
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
	5			
				ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)		0	-	
Backwalls/Breastwalls		6	5	Light to heavy scaling on backwalls.
Wingwalls		4	4	Severe scaling on tops of all 4 wingwalls. Bridge plaques missing.
Piles		N	N	
Paint/Coating		X	Х	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)	2.0			
(Total Number of Bearing Piles :	0:0)	_	-	
Pier Shaft/Piles Bracing/Struts/Sheathing		7 X	7 X	
Nose Plate		X	Х	
Paint/Coating		X	X	
(Colour Description :)			~	
(Colour Code :)				
Pier Stability		7	7	
Scour		7	N	
Debris (Y/N)	No		1	
Substructure General Rating		7	7	

		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : N)								
(D/S Direction : S)								
Alignment		8	8					
Bank Stability			8					
HWM (m below Top of Curb)				HWM not visible.				
Drift (Y/N)	No			Beaver dam 50m U/S.				
Slope Protection		6	6	Concrete bags partially covered by silt.				
(Type : CONCRETE; CONCRE	ETE)							
Guidebank/Spurs			X					
Adequacy of Opening			8					
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	6					

Alberta Transportation

				Maintenance Reco	ommend	ations						
Inspector Recommendations	v	Year	Inspector	r Comments		Department Co	omments			Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2	2011	Rehab po	ost/rail.								
GALVANIZE/PAINT BRIDGE RAIL												
RETROFIT BRIDGE RAIL												
SEAL CURBS	2	2011	Rehab sp	ball/cracked curbs.								
PATCH DECK	2	2011	Patch deck U/S, poor patching of jackhammer spalls.									
SEAL DECK												
OVERLAY DECK												
REPAIR/REPLACE DECK JOINTS	6 2	2011	Install-tig paving lip	hten cover plate bolts and pate	ch							
RESET/ PAINT BEARINGS	2	2011	Replace	bearings.								
REPAINT SUPERSTRUCTURE												
STRAIGHTEN/REPLACE MEMBE	RS											
WASHING												
SHOTCRETE REPAIRS												
REPAIR ABUTMENT SCOUR/ERG	OSION											
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION	N											
OTHER ACTION												
OTHER ACTION	2	2011	Repair cr	acked cover plates, if not done	e.							
OTHER ACTION	2	2011	Repair cr boltsif n	acked diaphragm welds - sug ot done.	gest							
OTHER ACTION		2011	Grout voi investiga	id under approach slab and te for voids.								
OTHER ACTION	2	2011		aling wingwalls.								
OTHER ACTION	2	2011	1	missing bridge plaque.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Las	t/Now)	55.6/55.0	6	Sufficiency Rating (Last/No	w) f	59.9/66.4	Est. R	epl. Yr	2029	Maint. Re	ad. (Y/N)	Yes
(%)		0010/001		(%)	,				2020		90. (1/14)	100
Special Comments for Next Inspection Rext major rehal	acking, wingw ary of cover b.	vall scali plate an	ng and ch d weld de	ipseal. Refer to Level 2 repor fects. Consider joint replacem	t for nent at	Department Comments						
Maintenance Reviewed By						Date				Estimated Tota	I 0	

Alberta Transportation	Bridge Inspection & Maintenance System (Web	2005) 0849	95 -1 Bridge
Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	19-Aug-2014	Previous Inspection Date	04-May-2009
Inspection Cycle (Default) (months)	39		
Comment			