					B	sridge Ir	spection					
Bridge File Nu	Imber 07802 -1 Bridge					Form Type		PSR				
Year Built/Yea	ar	1955/1955					Lot No.		1			
Supstr							Inspector Name		Kris Bosters			
		Name REDWATER				Inspector Class			BR CLS A			
Located Over		REDWATER RIVER, 6.63, WAT				RS-ST	Assistant Name					
Located On						Assistant Class						
Water Body C	-					Inspection Date			27-Mar-2012			
Navigabil. Cl./						Data Entry By			Theresa Lacusta			
Legal Land Lo				58 RGE 22 W	4M	Data Entry Date			04-Apr-2012			
Longitude, La			57, 53:59				Reviewer Name	•	Eric Carcoux	(
Road Authorit	•		ransport	ation (AIT)			Review Date		04-Apr-2012			
Contract Main		CMA07					Dept. Reviewer	Name	Brent Herric	K		
Clear Roadwa	ay/Skew	11 /					Dept. Review D	ate	11-Apr-2012	·		
AADT/Year		4,540 / 2	. ,				Follow-Up By					
Road Classific		RAU-209	9-110				-					
Detour Length		3										
Allowable Loa	id (t): Sir		36 DER	Sem		S2 54 RDER	Trair		3 77 RDER	> On Criti >Critical I	cal Spans Vember	
Design Loadir	าต:	HS2			UNDEN					> Primary		
2000	3.	1102			Po	ostina Ir	nformation					
Required Loa	d Postino	(t)		Single			Semi			Truck Train		
Posted Loadir		()		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 (No	In Advance	· /	No	At Bridge (Y/N)	No	
Remarks	not re				.,.•/			(.,)				
Hazard Marke			No									
Remarks												
Other Sign Types Bridge Ices												
other orgin ry	pes		Bhage	000	IJti	ilities (l	ocated at)					
Utility Attachn	nents											
Telephone	E r/w					Gas High pressure W r/w.						
Power	3 wire	NE				Municipal						
Others						Problem (Y/N) No						
Remarks												
Comunica -						Annroa	ch Road					
					Last	Now	Explanation of	Condi	tion			
Horizontal Alignment						Approaches East & West.						
Horizontal Alio	gnment				6	6	Approaches Ea	st & We	est.			
	•				-		Approaches Ea Hill to south with	st & We	d sight distan	ce. No passing SB		
	•				6	6	Approaches Ea Hill to south with NE type VI, con	st & We I limite tinuous	d sight distan at NE, SE &	SW.		
	•				6	6	Approaches Ea Hill to south with NE type VI, con	st & We I limite tinuous	d sight distan at NE, SE &	ce. No passing SB SW. ighway, and not T		
	•				6	6	Approaches Ea Hill to south with NE type VI, con Not long enougl	st & We I limite tinuous	d sight distan at NE, SE &	SW.		
Vertical Alignr	ment		9.800		6	6	Approaches Ea: Hill to south with NE type VI, con Not long enough transition.	st & We n limited tinuous n at NE proach	d sight distants at NE, SE & for primary h	SW. ighway, and not T 00mm creating a	hriebeam	
/ertical Alignr	ment Ith (m)		9.800		6	6	Approaches Ea: Hill to south with NE type VI, con Not long enough transition.	st & We n limited tinuous n at NE proach	d sight distants at NE, SE & for primary h	SW. ighway, and not T 00mm creating a	hriebeam	
/ertical Alignr Roadway Wid	nent Ith (m)		9.800 Yes		6 8	6 6	Approaches Ea: Hill to south with NE type VI, con Not long enough transition.	st & We h limited tinuous h at NE proach celled a	d sight distan at NE, SE & for primary h has settled 1 long jointspl	SW. ighway, and not T 00mm creating a l noto	hriebeam	
Vertical Alignr Roadway Wid Approach Bur Guardrail (Y/N	nent Ith (m)				6 8	6 6	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and rav NE type VI, con Not long enough	st & We n limited tinuous n at NE proach 'elled a	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE &	SW. ighway, and not T 00mm creating a l noto	hriebeam oump. ACF	
Vertical Alignr Roadway Wid Approach Bur Guardrail (Y/N Guardrail	nent Ith (m)		Yes		6 8 	6 6 4	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and rav NE type VI, con Not long enough transition.	st & We n limited tinuous n at NE proach relled a tinuous n at NE	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE & for primary h	SW. ighway, and not T 00mm creating a noto SW. ighway, and not T	hriebeam oump. ACP	
Vertical Alignr Roadway Wid Approach Bur Guardrail (Y/N Guardrail Length (m)	nent Ith (m) np V)	N)	Yes 8.500		6 8 	6 6 4	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and rav NE type VI, con Not long enough	st & We n limited tinuous n at NE proach relled a tinuous n at NE	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE & for primary h m, NE - 33.3r	SW. ighway, and not T 00mm creating a noto SW. ighway, and not T	hriebeam oump. ACP	
Current Star	nent Ith (m) np J) ndard (Y/	N)	Yes 8.500 No	Down	6 8 	6 6 4	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and rav NE type VI, con Not long enough transition. SE - 94.9m, SW	st & We n limited tinuous n at NE proach relled a tinuous n at NE	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE & for primary h m, NE - 33.3r	SW. ighway, and not T 00mm creating a noto SW. ighway, and not T	hriebeam oump. ACP	
Vertical Alignr Roadway Wid Approach Bur Guardrail (Y/N Guardrail Length (m) Current Star Termination	nent Ith (m) np J) ndard (Y/	N)	Yes 8.500	Down	6 8 5 4	6 6 4 4	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and ray NE type VI, con Not long enough transition. SE - 94.9m, SW NE G/R damage	st & We n limited tinuous n at NE proach relled a tinuous n at NE / - 56.1	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE & for primary h m, NE - 33.3r to).	SW. iighway, and not T 00mm creating a l noto SW. iighway, and not T n, NW - 8.5m.	hriebeam oump. ACP hriebeam	
Vertical Alignr Roadway Wid Approach Bur Guardrail (Y/N Guardrail Length (m) Current Sta	nent Ith (m) np J) ndard (Y/	N)	Yes 8.500 No	Down	6 8 	6 6 4	Approaches Ea: Hill to south with NE type VI, con Not long enough transition. NE corner of ap cracked and ray NE type VI, con Not long enough transition. SE - 94.9m, SW NE G/R damage	st & We n limited tinuous n at NE proach relled a tinuous n at NE / - 56.1	d sight distan at NE, SE & for primary h has settled 1 long jointspl at NE, SE & for primary h m, NE - 33.3r to).	SW. ighway, and not T 00mm creating a noto SW. ighway, and not T	hriebeam oump. ACP hriebeam	

					Superstructure						
Bridge Component				Last	Now	Explanation of Condition					
(Primary Spa	n : PO, 3 Spa	ns, Lengths(m): 12.2-18.3	-12.2, A	-Ident I	Number:)					
Special Feat	ures				-						
Special Featu	ure				X						
(Type :)											
Special Feature					X	_					
(Type :)											
Wearing Surf	ace/Deck Top	Detail Rating	js								
	N (%)	1 (%)	2 (%)	3 (%)							
Last											
Now											
Wearing Surf	ace			5	5	Chipseal over epoxy on concrete.					
(Material Ty COAT)	/pe : CONCRE	ETE - CONVE	ENTIONAL CI	HIP SEA	L						
(Thickness)	(mm) : 50)										
	ection Problen	n No									
Deck Top				N	N						
Deck Rideabi	ility			4	4	Rough ride over bridge, bump over all joints due to increased w/s					
						thickness from numerous O/Ls.					
Deck Joints				5	3	(Joint is leaking material sitting on abutment seats - photo. North abutment wet. 12/Apr/2005)					
Temperatur	re (deg. C)	2				-					
(Expansion	Type : GLAN	D (WABO-M	AUER, TRAN	SFLEX,	ETC))	Missing bolt NE cover plate.					
(Fixed Type	e:)					Gland is torn at SE approachphoto					
Gap Size (r	nm)	Gap	Location			All 4 joints are leaking and is evident by moisture and deterioration of					
60 North abutment						abutment and pier caps.					
60		North	n pier								
55		Sout	h pier			_					
55		Sout	h abutment			_					
						_					
Deck Drainag	je			7	3	Leaking joints.					
Drains Clog	gged (Y/N)	No				No deck drains.					
Curbs/Mediar				4	4	delams - Curb face spalls every 2m from lack of cover on rebar					
(Curb Type	: Standard)					photo					
Scaling (Pe		5									
Bridge Rail	, , , , , , , , , , , , , , , , , , , ,			6	5	Double layer. Incorrect splice.					
	LVANIZED ST		BEAM)		-	Approx 25% of anchor bolts have insufficient thread (photo).					
Bridge Rail P			,	3	3	2 A/B missing SP2E. 6 A/B sheared off W sidephotos					
(Type : GALVANIZED POST STEEL;GALVANIZED I STEEL)						Rust spots.					
Bridge Rail/Posts Coating					4						
Bridge Rail/Posts Coating 4 4 (Type : GALVANIZED)						1					
Sidewalk					Х						
Girder Detail	Ratings										
N (count) 1 (count) 2 (count)			3 (cou	unt)							
Last											
Now											

Alberta Transportation

				tructure
Bridge Component				Explanation of Condition
(Primary Span : PO, 3 Spans	, Lengths(m): 12.	.2-18.3-12.2, A	-Ident	Number:)
Girders		4	4	Patch over girder ends.
Cracking (Y/N) Yes				Cracked S3G10 and over P2 (photo). failing patch.
Spalling (Percent Area) 1				
(Number Of Girders : 30)				
Diaphragms/Cross Frame		4	4	Concrete end diaphragms delam/spall with exposed rebar Span 1 G
				at pier, S3G10 at pierphoto
Booringo		N	N	End disphrame cast over bearings not visible
Bearings	2		N	End diaphragms cast over bearings not visible.
Temperature (deg. C)	2			-
(Expansion Type :)				-
(Fixed Type :)	N			-
Coating Adequate (Y/N)	Yes			-
Functioning (Y/N)	Yes			
Deck Underside		6	6	-
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			-
Horizontal (Y/N)	No		_	
Superstructure General Rat	ing	4	4	
Dridae Component		Leet		ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments		4	4	Delem excels both abutmente, sheter
Bearing Seats/Caps		4	4	Delam cracks both abutmentsphotos
(Type : CONCRETE)			4	Languageling at NW/ DD views patch is failing, shate
Backwalls/Breastwalls		5	4	Heavy scaling at NW. PRevious patch is failingphoto
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Faint/Coating		^	^	
Abutment Stability		7	7	
Scour/Erosion		4	4	Erosion gully @ SWphoto
Piers/Bents				
				Diar con 8 columno notohod
(Type : PIER-COLUMN)		F	4	Pier cap & columns patched. Water and salt stains and spalls under G8 & 9 pier 1 & 2photo
Bearing Seats/Caps		5	4	Underside of caps is scaling.
(Type : CONCRETE)				Canarata aslumn/niar
(Total Number of Bearing Pile	es : 5:5)		<u> </u>	Concrete column/pier. Wide vertical cracks in columns.
Pier Shaft/Piles		X	3	West side of pier 1 pile 1 has wide delam cracks and spalls. 600x600 spall near top of pilephoto Pile 5 & 2 on pier 2 also have delam crack, spalls.
Bracing/Struts/Sheathing		X	Х	
Nose Plate		X	Х	
Paint/Coating		Х	Х	
(Colour Description :)				
(Colour Code :)				1
Pier Stability		7	5	
· · · · · · · · · · · · · · · · · · ·			Ĭ	

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			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Scour			5	
Debris (Y/N)	No		_	
Substructure General Rating		4	3	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Bagged concrete deteriorating.
(Type : CONCRETE; CONCR	ETE)			Erosion gully SWphoto
Guidebank/Spurs		X	X	
Adequacy of Opening			8	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		4	4	

Alberta Transportation

		Maintenance Recom	mendations					
Inspector Recommendations	Year	Inspector Comments	Department Co	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Replace B/R post anchor bolts						
GALVANIZE/PAINT BRIDGE RAIL								
SEAL CURBS								
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS	2012	Replace joints						
RESET/ PAINT BEARINGS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
OTHER ACTION	2012	Replace damaged NE guardrail (radius)						
OTHER ACTION	2012	Partial depth repairs of curb spalls.						
OTHER ACTION	2012	Partial depth repairs of pier pile spalls.						
OTHER ACTION	2012	Patch girder and spalls.						
OTHER ACTION	2012	Partial depth repairs abutment & pier cap	s.					
OTHER ACTION	2012	Partial depth repairs diaphragms.						
OTHER ACTION	2012	Place ACP at NE approach to remove bur	np.					
OTHER ACTION	2012	Patch ACP along joints.						
OTHER ACTION	2012	Replace missing curb cover plate bolt.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	44.4/38	9 Sufficiency Rating (Last/Now) (%)	58.1/55.8	Est. Repl. Yr	2025	Maint. Rec	qd. (Y/N)	Yes
Special			Department					
Comments for			Comments					
Next Inspection								
Maintenance Reviewed By			Date		E	stimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								

Proposed Action			
Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	
Next Inspection Date	27-Dec-2013	Previous Inspection Date	22-Jun-2010
Inspection Cycle (Default) (months)	21		
Comment			