Bridge Inspection														
Bridge File Num	ber	01546 -1	Bridge				Form T	уре			PCS			
Year Built/Year		1973/19	73				Lot No.				1			
Supstr	N I =	LICONIA					Inspector Name			Owen Salava				
Bridge or Town	Name		חויירם ו	. \^/^	2000.0	-	Inspect	or Clas	ss		BR CLS A			
Located Over			RIVER, 5	o, WATER	RCRS-S	l	Assista	nt Nan	ne					
Located On		611:02 (21 30.291				Assistant Class							
Water Body Cl./							Inspect	Inspection Date 08-Feb-2013						
Navigabil. Cl./Ye		0)4/ 050) O TIMP 4	5 DOE 0	7 10/484		Data Entry By Marcia Chavez							
Legal Land Loca			6 TWP 4		7 VV4IVI		Data E	ntry Da	ite		20-Feb-2013	3		
Longitude, Latitu	ude		47, 52:50:		-\		Review	Reviewer Name John O'Brien						
Road Authority	Alberta Transportation (AIT) Area CMA17)		Review	Date			13-Feb-2013			
							Dept. R	•		me				
Clear Roadway/Skew 8.2 / -15 deg. (LHF) AADT/Year 360 / 2011 (A)								28-Mar-2013						
AADT/Year Road Classificat	tion	RCU-20					Follow-	Follow-Up By						
			9-110				-							
Detour Length (km) 45 Allowable Load (t): Single CS1 30 GIRDER			Semi	CS2 49 GIRDER		Tra	ain		3 70 RDER		> On Critic	al Spans		
Design Loading:	<u> </u>					SINDLIN				JII	JEIN		> Primary	
2 00.g.: 2000g		1102				Posting I	nformati	on					2 i iiiiai y	σραιτ
Required Load Posting (t)			Single			Sei					Truc	k Train		
Posted Loading (t)			Single			Semi			Truc	Truck Train				
Posted:	Lane	EB			ion (Y/N) No	In A	In Advance (Y/N)		N)	No	At B	At Bridge (Y/N) No	
Posted:	Lane	WB		At Junct				Advance (Y/N)		No		At Bridge (Y/N) No		
Remarks														
Hazard Marker	At Brid	ge (Y/N)	Yes											
Remarks	3 ()													
Other Sign Types Creek ID @ NE & St			& SW.											
Charles of the Charle				Utilities (l	Located	at)								
Utility Attachme	nts													
Telephone							Gas							
Power							Municip	al						
Others							Probler	n (Y/N)) No)				
Remarks														
							ch Road							
					La		Explan							
Horizontal Align						7 7			East c	of S.	R. 792. On u	phill g	rade to East, I	imited sight
Vertical Alignme						5 5	distance. Slight dip/settlement of East approach caused by loss of abutment fill							
Roadway Width (m) 9.400			_	Slight d	lip/settl	lemer	nt of	East approa in sheathing	ch ca	used by loss o	f abutment fill			
Approach Bump)		1			5 5								
Guardrail (Y/N)			Yes				Minor d	lamage er solic	to g	uard @	drail but funct NW & SE - pl	ional.		
Guardrail						4 4		•			•			
Length (m)			8.000				Require Not thri			II CO	rners; NW tra	ansitio	n torn.	
Current Stand		N)	No				-	2 2 0011						
Termination T	ype		Turn Do	own										
Drainage						7 7								
Approach Road	d Gene	eral Ratin	g			5 5								

						Supers	tructure
Bridge Com	ponent						Explanation of Condition
(Primary Spa	an : HC, 3 Spa i	ns, Lei	ngths(n	n): 10.1-10.1-			
Special Feat	tures						
Special Feat	ure					Х	
(Type:)							
Special Feat	ure					Х	
(Type:)							
	face/Deck Top	Detail	Ratings	3			
	N (%)	1 (%)		2 (%)	3 (%)		
Last							
Now	5.0	С	0.0	0.0	0	.0	
Wearing Sur	face				Х	Х	
(Material T							
(Thickness							
	ection Problem	n	No				
(Y/N)							
Deck Top					3	4	Girder edge spalls; deck spalls.
					_	_	
Deck Rideab	oility				5	5	
Deck Joints					4	4	Missing buffer angles in some abutment girder ends.
Bump (Y/N			No		7		wissing buner angles in some abutment grader ends.
			INO		7	7	Draina hatwaan girdara
Deck Draina			NI.		1		Drains between girders.
Drains Clog			No				
Curbs/Media					6	6	
	: Standard)						
	ercent Area)		0		_	T _	
Bridge Rail					5	5	Single layer. Tear at 1 post, NW corner, with missing splice bolt.
`	LVANIZED ST	EEL F	LEX BI	EAM)	1	1	- Tour at 1 poot, 1111 conto, with missing opines soil.
Bridge Rail F					6	6	
(Type : GA STEEL)	LVANIZED PO	OST ST	ΓEEL;G	ALVANIZED	POST		
Bridge Rail/F	Posts Coating				7	7	
(Type : GA	LVANIZED)						
Sidewalk					X	X	
Oinday D. 1. II	Detin						
Girder Detail	T	1 /5-	.m.t\	2 (25:-21)	2 /5-	mt)	
Loot	N (count)	1 (cou	unt)	2 (count)	3 (cou		
Last			0	0	1	24	
Now	0		0	0	1	25	
Girders	4 - 1	\	00 = :	0040	3	3	
Last Complete Inspection Date 08-Feb-2013					9101 6 8 9305 9 wide A7 areaks in 3 lace		
Cracking (Y/N) Yes							S1G1,6 & S3G5,8 wide AZ cracks in 2 legs. S2G5 poorly grouted punchouts.
Spalling (Percent Area) 30							Some girders with underside spalls in channel of girders.
Lift or Conne Grouted (Y/N			Yes				Girder edge/end spalls and grout spalls from pockets. AZ spalls S1G2-5,7-9; S2G2-9 & S3G2-4,6-7,9. Connections failed on 8 girders partly due to improper shimming.
(Number Of	Girders : 30)						Connections railed on o gliders partly due to improper stillfilling.
Span Alignn	nent Problems	S					
Vertical (Y/	/N)		No				Slightly misaligned to road.
Horizontal	(Y/N)		No				A2 lower than piers, approx. 80mm.
Superstruct	ure General R	ating			3	3	

					Subst	ructure
Bridge Comp	ponent			Last	Now	Explanation of Condition
Abutments					1	
(Extended I	Backwall Piles	s (Y/N) : Y)				
`	Backwall Piles		n) : 1500)			
	er of Caps/Co		,			
Bearing Seats	•		nas			
g coan	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last	(000)	. (000)		0 (000	,	-
Now	0	0	0		0	
Bearing Seat	-			4	4	
	EATED TIMB				<u> </u>	Both abut caps rolling - photos. A1, N end, cap has vertical end crack and only 50% bearing
(Depth(mm		,				(150mm) at P5.
(Width(mm)						_
Backwalls/Bre	· · · · · · · · · · · · · · · · · · ·			3	3	75mm gap between E backwall & girders.
		2.20		3	<u> </u>	Original backwall has wide gaps losing fill causing approach
Greatest He	Greatest Height (m) 2.20					settlement - photo.
Min que alla				1	4	Backwalls not low enough, losing fill @ A2 - photo.
Wingwalls				4	4	Anchored with guy wire, piles jacking. SW wing not low enough - photo.
(Total Number	er of Bearing I	Piles : 7:7)				
Piles Detail R	atings					
	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last				;	3	
Now	0	0	0	;	3	
Piles				3	3	A1P6 cracked - photo.
						A1P5 not bearing, approx 50% - photo.
D=:-1/O==1:						A2P7 shimmed, not fully bearing, approx 50% - photo.
Paint/Coating)			X	X	
Abutment Sta	ability			4	4	Rolling caps and leaning piles - photo.
Scour/Erosion	n			5	5	
Piers/Bents						
	R-COLUMN)					
`	er of Caps/Co	rbels : 3:3)				
Bearing Seats	•	•	ngs			1
Jaming Code	N (count)	1 (count)	2 (count)	3 (cou	ınt)	1
Last	(CCGIII)	. (556111)	_ (550111)	2 (000	,	
Now			0	Wide sheets @ Couth and of Wisconson On the Life in		
				4 4		Wide check @ South end of W pier cap. South end of East pier cap vertical crack through - photos.
Bearing Seats/Caps/Corbels 4 (Type: TREATED TIMBER)						1
(Depth(mm) : 300)						
(Width(mm): 350) (Total Number of Bearing Piles: 9:9)						
Piles Detail R		1100 . 9.9)				
. iioo Dotaii N	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last	(Journ)	, (Journe)	_ (oodiii)	3 (000		
Now	0	0	0		0	
Pier Shaft/Pil	-			4	4	
Greatest He		6.30				Multiple piles stained, checked at waterline, suspect condition.
Bracing/Strut		0.30		5	5	
	o, on calling					
Nose Plate				Х	Х	

			ructure	
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		Х	Х	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		5	5	
Debris (Y/N)	Yes			Beaver dam across channel. 5m South of bridge.
Substructure General Rating		3	3	
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		5	5	Bank erosion U/S & D/S not affecting bridge.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No		_	
Slope Protection		5	5	
(Type: NATURAL; NATURAL	.)			
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		5	5	

Alberta Transportation

		Maintenance Recommendations	ommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	ıments	Target Year	Est. Cost	Cat#
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Patch edge spalls & deck spalls, 0.2m3 NH.	3 NH.				
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2013	Core substructure, if not yet done.					
REPAIR/REPLACE TIMBER CAPS	2013	Reset caps on re-aligned abut piles; replace pier caps.	place				
REPAIR ABUTMENT SCOUR/EROSION	NOI						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Assess for replacement or rehab, if not yet done.	t yet				
OTHER ACTION	2013	Patch backwall gaps at A2.					
OTHER ACTION	2013						
OTHER ACTION	2013	Lower wing & backwall sheathing.					
OTHER ACTION	2013						
OTHER ACTION	2013	Restore connector pockets & restore grout, or pull piles back & place anchor piles.	grout, or				
OTHER ACTION	2013	Repair splices at guardrail to bridgerail.					
OTHER ACTION	2013	Replace all girders.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	low) 33.3/33.3	33.3 Sufficiency Rating (Last/Now) (%)	ow) 55.2/50.8	Est. Repl. Yr 2018	Maint. Reqd. (Y/N)		Yes
Special Girders in poor sha Comments for If repair is economic Next Inspection Install new girders page 1	pe; bridge has ical, consider tii plus miscellane	Girders in poor shape; bridge has heavy gravel haul active it at this time. If repair is economical, consider tieing back rehabilitated abuts to anchor piles. Install new girders plus miscellaneous repairs; assess first.	Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0 1	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	08-May-2016		Previous Inspection Date	03-Mar-2010			
Inspection Cycle (Default) (months)	39						

Alberta Transportation

			Maintenance Recommend	lations				
Inspector Recommendations	Year	Inspect	or Comments	Department C	Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
SEAL CURBS								
PATCH DECK	2013	Patch edge spalls & deck spalls, 0.2m3 NH.		Programmed		2013		
OVERLAY DECK								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
CORE TIMBER CAPS/CORBELS	2013	Core su	ubstructure, if not yet done.	Completed		2013		
REPAIR/REPLACE TIMBER CAPS	2013	Reset of pier car	aps on re-aligned abut piles; replace os.	Defered until	replacement			
REPAIR ABUTMENT SCOUR/EROSIO	N							
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL STRUTS								
OTHER ACTION	2013	Assess done.	for replacement or rehab, if not yet	Replacement	is scheduled	2014		
OTHER ACTION	2013	Patch b	ackwall gaps at A2.	Programmed		2013		
OTHER ACTION		Reset h	azard markers to standard.					
OTHER ACTION		Lower wing & backwall sheathing.						
OTHER ACTION		Band split pile or pile stub repair.		Programmed		2013		
OTHER ACTION		Restore pull pile	e connector pockets & restore grout, or s back & place anchor piles.	Girder repairs	programmed	2013		
OTHER ACTION		Repair	splices at guardrail to bridgerail.	Programmed		2013		
OTHER ACTION		Replace all girders.		Bridge replace	ement programmed	2013		
OTHER ACTION								
Structural Condition Rating (Last/Nov (%)	w) 33.3	33.3	Sufficiency Rating (Last/Now) (%)	55.2/50.8	Est. Repl. Yr 2018	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection Girders in poor shape If repair is economica Install new girders plu	ıl, consider	tieing back	avel haul active it at this time. rehabilitated abuts to anchor piles. rs; assess first.	Department Comments	Review of Bridge by TSB & F 2013, and repair strategy will	Regional Staff is be determined	s scheduled at that time	for May . CB
Maintenance Reviewed By C	hris Black			Date	30-Apr-2013	Estimated Tota	ıl O	
Proposed Long-Term Strategy								

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	08-May-2016	Previous Inspection Date	03-Mar-2010
Inspection Cycle (Default) (months)	39		
Comment			