Bridge Inspection																
Bridge File Num	Bridge File Number 73173 -1 Bridge									Form Type			TH			
Year Built/Year			1/194										1			
Supstr									Ins	Inspector Name			Owen Salava			
Bridge or Town I	Name	SUN	NDRE				Inspector Class			BR CLS A						
Located Over JAMES RIVER, 3.95, WATERC																
Located On 734:12 C1 33.750								Assistant Class								
Water Body Cl./Year								Ins	pection I	Date		29-Nov-2010)			
Navigabil. Cl./Year									ta Entry			Marcia Chav	ez			
Legal Land Loca	ition	SE S	SEC 1	10 TWP :	33 RGE	9 W5I	М			ta Entry			28-Feb-2011			
Longitude, Latitu	ide	-115	5:11:3	3, 51:48	:47					viewer N			John O'Brier	າ		
Road Authority		Albe	erta Tı	ransporta	ation (Al	T)			Re	view Dat	te		22-Feb-2011			
Contract Main. A	rea	CMA	A18						De	pt. Revie	ewer N	lame	Chris Black			
Clear Roadway/	Skew	6.7	/ 0 de	g.						pt. Revie			01-Mar-2011			
AADT/Year		100	/ 200	9 (A)						low-Up I						
Road Classificat		RCL	J-208	G-90						•	•					
Detour Length (kg		50	ı												I	
Allowable Load (t): Sin	igle	CS1	40 INGER		Semi		S2 60 2L3			Train	U2	3 74		> On Critical Mo	al Spans
Design Loading:			HS20				02	ZLJ				02	LS		> Primary S	
Design Loading.			11320	J			P	nstina	Infor	mation					> Filliary C	эран
Required Vert. C	learan	nce P	ostino	m)			<u>'`</u>	Jamig	ШСЛ	Hation						
Required Vert. Clearance Posting (m) Posted Vertical Clearance (Y/N) Yes																
	NB	On Bridge (m)			In Adv	ance	(Y/N)	Yes	Lane	SB	C	n Bridge (m)	4.7	In Advance	(Y/N) Yes	
Remarks							· /		hole through "7" making it illegible @ Red Deer River Crossi				, ,			
Required Load Posting (t) Single								Semi Truck Tr				l				
Posted Loading		(-)			Single					Semi				Truck Train		
Posted:	Lane	N	NB		At Junction (Y/N)		No		In Advance					ridge (Y/N)	No	
Posted:	Lane		SB		At June		` '			In Adva			No		idge (Y/N)	No
Remarks				nor dam:		•			oortal	rtal. Cracked bracket at S portal.			110			
Hazard Marker A				Yes	ago to o	igii a k	Jidon	ot at it	Jortan	· Cracke	a brac	ontot a	i o portan			
Remarks	τι Βπας	gc (i	/14)		na heial	nts In	creas	ed sian	heial	ht aids in	n visihi	ility dı	ue to vertical	curve	 }	
Other Sign Type	 S			_											ging Trucks; ",	James
Curior Cigir Type				River".	ago,				0 ,	•		9		09	gga.ca,	Jan. 100
							Ut	tilities	Loca	ted at)						
Utility Attachmer	nts															
Telephone									Ga							
Power										nicipal						
Others									Pro	blem (Y	/N)	No				
Remarks																
								Appro				٠ ا	ti a m			
Horizontal Alien	nost.						Last			planatio				00 1-	hath diractic	
Horizontal Alignma							6	6	⊢lin s	say curv	e with	mme	u signt distan	ice in	both directions	o.
Vertical Alignme				7.000			4	4	/6		<u> </u>			4	١٥٥)	
Roadway Width	(m)			7.000			4		(5)	approac	n nas	large	potholes. 28N	viay∠c	108).	
	Approach Bump				4	6	NIO		المطالة	مام عماس		ما در م				
Guardrail (Y/N) No			Х	X		guardra ential ha		ııı ab	ove water an	u vert	ical alignment	continuite to				
Guardrail			_ ^	^												
Length (m) Current Standard (Y/N) No																
	`	IN)		None												
Termination Ty	/pe			None			4	4	۱۸/6-	ndrows s	at north	h oro	eion channal	NIVA/ G	2\\\ & QE Dro	ine to bridge
Drainage							4	4	VVII	Windrows at north, erosion channel NW, SW & SE. Drains to bridge.						
Approach Road	l Gene	ral R	Rating	1			2	2	Pot	Potential safety hazard.						

Superstructure									
Bridge Comp	onent					Explanation of Condition			
(Primary Spa	n : TH, 1 Spar	ns, Lengths(n	n): 34.1, A-Ide			·			
Special Feat	ures								
Special Featu	ıre				X				
(Type:)									
Special Featu	ıre				X				
(Type :)									
Wearing Surfa	ace/Deck Top	Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)					
Last	60	0	0	(0	Snow covered.			
Now	100.0	0.0	0.0	0	.0				
Wearing Surf	ace/Deck Top			4	N	(25mm worn in wheelpaths, ends starting to rot. 23Jun2010).			
(Material Ty	/pe : UNTREA	TED TIMBER)						
(Plank Thic	kness(mm) : 7	(5)							
(Plank Widt	h(mm) : 300)								
Deck Rideability					5				
Deck Joints	Deck Joints								
Temperatur	re (deg. C)	-8							
(Expansion	Type:)								
(Fixed Type	e:)								
Gap Size (r	nm)	Gap L	ocation						
Ol. = //A/l. = = 1	0			N.	N.	(Outhor burned and a little and III II halfs and in the stire and at a fine			
Curbs/Wheel				N	N	(2 wheelguards are splintered. "L" bolts are ineffective - photo. 1 spacer block split & dislodged at NE corner. 23Jun2010). Snow			
	: Standard) EATED TIMBE	:D\				covered.			
(Thickness)		-N)				_			
(Width(mm)									
Bridge Rail	, . 			2	2	(32 rail to truss hooked bolts are missing. 23Jun2010). Minor			
(Type : LAT	TTICE)					damage on W truss rail @ midpoint. Hole in another W panel near N			
Bridge Rail P				2	2	end. There are no railings past batter posts. 3 steel posts are missing. Truss member used as support for panels.			
	ST STEEL;PO	ST STEEL)				Rusting.			
Bridge Rail/P		J. J. LLL)		4	4	10% paint failure.			
(Type : PAI						Dirty. Dirty.			
Sidewalk	/			Х	Х				

						Supers	tructure
Bridge Con	nponent				Last		Explanation of Condition
(Primary Sp	an : TH, 1 Sp a	ans, Lei	ngths(m): 34.1, A-ld	ent Nur	nber: A	A0664-02)
Wide Load I	Damage (Y/N)		Yes				
High Load D	Damage (Y/N)		Yes				Both portals (minor).
Top Chord	Top Chord						Dotti portaio (minor).
Batter Posts						5	
Sway Bracings						7	U6L7E has 30mm dent. U3m2E cracked at m2E. U4L3W has 30mm
Diagonals						4	bend near L3. U6U6 has 20mm dent & both portals have high load gouges.
Verticals						7	Bay 3 & 4 missing lower bracing bolts at mid-point. Top bracing has headless rivet at U5W. Batter post has broken clip angle at L7E.
Portals						4	neadless rivet at OSVV. Batter post has broken clip angle at L/E.
Connections						4	
Floor Beams	S				7	7	
Bottom Cho	rd				7	7	
(No. of Strin	gers : 91)				'		
Stringer Det	ail Ratings						
	N (count)	1 (cou	unt)	2 (count)	3 (cou	unt)	
Last							
Now						_	
Stringers					7	7	
(Type : S1	reel)						
(Width(mn	n) : 125)						
(Depth(mr	m): 300)						
(Spacing(ı	mm) : 557)						
Paint Condi	tion				4	5	5% peeling between primer and top coat and also peeling on any mill
(Colour De	escription :)						scale. Rust on 2% predominantliy floor system. Green.
(Colour Co	ode:)						
Touchup F	Required (Y/N))	No				
Bearings					7	7	Truss jammed into abutment timbers.
Temperati	ure (deg. C)		-8				N abut at L7.
(Expansio	n Type : ROL I	LER NE	ST BE	ARING)			S abut at L0. Covered with gravel & snow.
(Fixed Typ	oe : PINNED E	BEARIN	G)				
Functionin	ng (Y/N)		Yes				
Sub Deck/D	eck Underside	9			6	6	Laminated.
(Material	Гуре : TREAT	ED TIM	BER)				
	ickness(mm):						
	dth(mm) : 50)	•					
	Percent Area)		0				
<u> </u>	ment Problen						
Vertical (Y			No				
Horizontal			No				
Î	ture General				4	4	
							ructure
Bridge Con	nponent				Last	Now	Explanation of Condition
Abutments							
-	Backwall Pile						
(Extended	l Backwall Pile	es Spaci	ng(mm	i) : 1500)			

					Subst	ructure
Bridge Com	ponent			Last	Now	Explanation of Condition
	er of Caps/Co	rbels : 11:11)				8 - 310 x 94 HP corbel & 1 - 310 x 94 HP full length caps in front, 2
	s/Caps/Corbe					short.
9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	N (count)	1 (count)	2 (count)	3 (co	unt)	HP 310 x 94 cap in back at each abut. No stiffeners in corbels above caps.
Last	0	0	0	0		
Now	0	0	0		0	
	s/Caps/Corbe			7	7	-
(Type : STE		710			'	
(Depth(mm						
_ ` ` ` `	· · · · · · · · · · · · · · · · · · ·					-
(Width(mm)				6	6	
Backwalls/Breastwalls Graatest Height (m) 4.50					0	
Greatest Height (m) 4.50				-		
Wingwalls				7	7	
(Total Numbe	er of Bearing F	Piles : 8:8)				With steel capital - typical.
Piles Detail R		1100 1 010)				14 / abutment with steel capital.
i noo Botan i	N (count)	1 (count)	2 (count)	3 (co	unt)	2 rows of 7 / abutments.
Last	0	0	0	0 (00)	0	-
Now	0	0	0			
Piles	0	<u> </u>		6 6		-
	<u> </u>			X	6 X	
Paint/Coating	3			_ ^	^	
Abutment Stability					5	
Scour/Erosion					N	(Erosion scar along S abut & extends behind NW wingwall. Erosion gully at S breastwall. 23Jun2010).
Piers/Bents						
(Type:)						
	er of Caps/Co	rhels ·)				
	s/Caps/Corbe	•	nas			
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	11 (000)	. (554)	= (000)	0 (00)	<u></u>	
Now						
	s/Caps/Corbe	 els		X	X	-
(Type:)	.o/ Gapo/ Golbo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	er of Bearing F	Piles ·)				
Piles Detail R		1100.				-
. IIOO DOIGII IV	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	. T (Journ)	. (Sourit)	_ (oodiii)	000	~····/	
Now						
Pier Shaft/Pil	es			X	X	-
Greatest H				Λ		
Bracing/Strut				Х	Х	
Nose Plate				X	X	
Paint/Coating			X	X		
(Colour Description :)						
(Colour Co						
Pier Stability	u e .)			X	X	
Scour				X	X	
Debris (Y/N)		Yes				Old piles at S abut. Debris stuck in wheelguard at L3E.
Debilo (1/IV)		res				Old piles at 3 abut. Debils stuck ill wheelguald at LSE.

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Substructure General Rating			5						
			· ·	ro Hoome					
			Now	re Usage Explanation of Condition					
Channel			1.10.11						
(U/S Direction : E)				River is on a skew and bridge is square.					
(D/S Direction: W)									
Alignment									
Bank Stability			N	(Some erosion E of bridge on the S & N banks. 23Jun2010).					
HWM (m below Top of Curb)	HWM (m below Top of Curb) 2.9			Could not confirm HWM					
Drift (Y/N)	Yes			Minor drift.					
Slope Protection		4	N	(Erosion of S bank under bridge (photo). 23Jun2010).					
(Type: RIP RAP; RIP RAP)									
Guidebank/Spurs	Guidebank/Spurs								
Adequacy of Opening			6						
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	GR carried forward from 23Jun2010.						

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Recommend	lations			
nspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat
REPAIR/REPLACE BRIDGE RAIL	2011	Install 3 steel end posts, approach rail & 2 ply flexbeam across truss.				
RETROFIT BRIDGE RAIL						
SEAL CURBS	2011	Replace split blocking & add hook bolts.				
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPLACE STRIP DECK						
REPLACE SUB DECK						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						1
STRAIGHTEN/REPLACE MEMBERS	2011	Replace U3m2E, heat straighten U4L3W, U6U6 & U6L7E, and replace clip angle at L7E.				
WASHING	2011					
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP	2011	ClassII / 60m3.				
REMOVE DRIFT ACCUMULATION						1
OTHER ACTION	2011	Install missing bolt in lower X bracing @ midspan (3).				
OTHER ACTION	2011	Grade South approach.				
OTHER ACTION	2011	Install guardrail and attach to batter posts				
OTHER ACTION	2011	Replace NB advanced clearance sign, the S portal bracket & both portal signs.				
OTHER ACTION	2011	Grind notches smooth along U1U1 & U6U6.				
OTHER ACTION		-				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	50.0/50	.0 Sufficiency Rating (Last/Now) (%)	44.9/44.9 Est. Repl. Yr	2023 Maint. Ro	eqd. (Y/N)	Yes
	T include	d as additional attachement. LRA sent by email	Department Comments			

Alberta Transportation

73173 -1	Bridge
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Maintenance Reviewed By		Date		Estimated Total	0
Proposed Long-Term Strategy	2006.01.17 With normal maintenance bridge should	be good until 2035.			
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Bryce Clayton		
Next Inspection Date	28-Feb-2014	Previous Inspection Date	23-Jun-2010		
Inspection Cycle (Default) (months)	39				
Comment					