						E	Bridge Ir	nspect	ion							
Bridge File Nur	Bridge File Number 73077 -1 Bridge								Form Type SG							
Year Built/Year 1982/1982												2	2			
Supstr								Inspector Name			Owen Salava					
Bridge or Town	Name	EAST C	OULEE					Inspe				BR CLS A				
Located Over		RED DE	ER RIVE	R, 3, WA	TERCR	S-S	т	Assistant Name								
Located On		10:08 C <sup>2</sup>	1 21.642			-										
Water Body Cl.	/Year								Assistant Class			01-Nov-20	)11			
Navigabil. Cl./Year								· ·	Data Entry By Marcia Chavez							
Legal Land Location SW SEC 28 TWP 27 RGE 18 W					18 W4N	1			Data Entry Date 29-Nov-2011							
Longitude, Latitude -112:28:49, 51:19:55								Reviewer Name John O'Brien								
Road Authority		Alberta 7	Transport	ation (Al	T)				Review Date 14-Nov-2011							
Contract Main.	Area	CMA21							Dept. Reviewer Name Andrew Smikles							
Clear Roadway	/Skew	10 / -20	deg. (LHF	-)				· · · ·		ewer Na ew Date		02-Dec-20				
AADT/Year		590 / 20						- Follov				02-Dec-20	/ 1 1			
Road Classifica	ation	RAU-209	9-110					FOIIOV	v-op	Бу						
Detour Length	(km)	5														
Allowable Load	llowable Load (t): Single CS1 28				Semi	CS	S2 49			Train	CS	3 62		> On Criti >Critical I	ical Spans Member	
Design Loading	<b>j</b> :	MS	230		·								> Primary Span			
						Po	osting Ir	nforma	tion							
Required Load	Posting	<b>(</b> t)		Single				S	Semi			Truc	k Train			
Posted Loading	g (t)			Single				s	Semi			Truc	k Train			
Posted:	Lane	NB		At Junction (Y/N)		No	In	In Advance (Y/N)		No	At B	ridge (Y/N)	No			
Posted:	Lane	SB		At Junc	tion (Y/N	I)	No	In	n Adv	ance (Y/	'N)	No	At B	ridge (Y/N)	No	
Remarks	Not re	equired.														
Hazard Marker	At Brid	ae (Y/N)	Yes													
Remarks		• • /														
Other Sign Typ	es		Informa	tion, cur	ve, stop	ahe	ad, Rive	er ID.								
5 71				,	<i>,</i> 1		ilities (L		d at)							
Utility Attachme	ents T	ELEPHO	NE UTILI	TIES-PH	IONE LIN											
Telephone	West	r/w.						Gas								
Power	South	of bridge	).						Municipal							
Others									Problem (Y/N) No							
Remarks	Utilitie	es conduit	t in west c	urb.							- '					
	Janac						Approa	ch Roa	ad							
					La	ast				on of Co	ndi	tion				
Horizontal Aligr	nment					6	6	Explanation of Condition Curves at both ends. "T" intersection 120m North.								
Vertical Alignm						7	7	1					-			
Roadway Width			9.800					North	appr	oach an	d de	ck are 70n	nm lowe	er than road.		
Approach Bum						6	6									
Guardrail (Y/N)	-		Yes					Missir	na 1 k	olt at SI	E tra	ansition to b	oridaera	il. Not thrie h	eam	
Guardrail						4	4		Missing 1 bolt at SE transition to bridgerail. Not thrie bear							
Length (m)			40.400					Missir	na bo	lt & bloc	kina	at SE, SM	/ rail no	sts (photos).		
Current Stand	dard (V)	(N)	No						.9 .00			,,,				
Termination 1		14)	Turn Do	מאור												
Drainage	ype		Tuni Du	5 4 4 1		6	6	-								
Approach Roa						6	6									

						Supers	tructure				
Bridge Com	ponent				Last	Now	Explanation of Condition				
(Primary Spa	in : WG, 3 Spa	ans, Len	ngths(	m): 52-66-52,	A-Iden	t Numl	per: A0902-01)				
Special Feat	ures										
Special Feature						X					
(Type : )											
Special Feature						X					
(Type : )											
Wearing Surf	ace/Deck Top	Detail R	Ratings	6							
	N (%) 1 (%) 2 (%)										
Last											
Now 0.0 0.0				0.0	0	0.0					
Wearing Surf	ace				6	6	(Core hole in deck S2 not filled to top. Cracks in wear surface run full				
(Material Ty	ype : CONVEN		L CHI	P SEAL COAT	Γ)		width of deck. These are every 1.0m at midspan, sealed. Small popouts throughout deck. Crack width 0.3mm to 0.8mm wide.				
(Thickness	(mm) : )						30/05/2005).				
							Previously noted cracks covered by chipseal.				
Deck Top					N	N					
Deck Rideab	ility				8	8					
	y				0						
Deck Joints						4	N abut fingers are 15mm higher at road side.				
Temperatu	re (deg. C)	2					S fingers 10mm higher on road side.				
· · · · · · · · · · · · · · · · · · ·	Type : FINGE	ER PLAT	TES)								
(Fixed Type											
Gap Size (r			Gap L	ocation							
82											
55			North								
Deck Drainag	ge				8	8					
Drains Clog		N	10								
Curbs/Media					4	4	Transverse 0.3 to 0.6mm wide cracks in curb every 0.60m to 1.5m. 5				
	: Standard)						locations in East curb where curb spalled exposing waterstop due to				
	ercent Area)	0					- low cover.				
Bridge Rail		0			9	9					
	LVANIZED ST		RIDGF		~		Square tube.				
Bridge Rail P				· <b>-</b> ,	8	8	Several A/B nuts barely flush - not rated down.				
		OST STE	EEL:G		-		1				
STEEL)			,•				-				
Bridge Rail/P	osts Coating				7	7					
(Type : <b>GA</b>	LVANIZED)										
Sidewalk	Sidewalk										
Girder/Beam	1										
Cover Plate	9				8	Х					
Flange					7	7	Girders appear to have slight sag, all spans.				
Web					8	8					
Stiffeners					8	8					
Splice					8	8					
Weld					7	7	]				
Diaphragms/	Cross Frame				8	8					
,											

Alberta Transportation

			Supers	tructure
Bridge Component		Last		Explanation of Condition
(Primary Span : WG, 3 Spans, I	_engths(m): 52-66-52,	A-Iden	t Numb	per: A0902-01)
Paint Condition		X	Х	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		6	6	Bearings are fully extended both abutments.
Temperature (deg. C)	2			
(Expansion Type : ROCKER E	BEARING)			
(Fixed Type : ROCKER BEAF	RING)			
Coating Adequate (Y/N)	Coating Adequate (Y/N) Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Cracks underneath deck exterior. Efflorescence @ cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating	9	6	6	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments		120.00	1.10.1	
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : <b>PIER-SOLID</b> )				Narrow vertical cracking under 3 girder bearings.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles :	0:0)			
Pier Shaft/Piles	,	8	8	
Bracing/Struts/Sheathing		Х	Х	
Nose Plate		8	8	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	6	
Debris (Y/N)	No			
Substructure General Rating		7	7	

			Structu	re Usage				
			Now					
Channel								
(U/S Direction : W)				Very erodable sandy material.				
(D/S Direction : E)				_				
Alignment		8	8					
Bank Stability		8	8					
HWM (m below Top of Curb)				No visible HWM.				
Drift (Y/N)	No							
Slope Protection		4	4	Natural @ top of North. South abutment slope protection pulled away				
(Type : CONCRETE; CONCR	ETE)			from abutment. 135mm & 230mm deep at South abutment. Void under slab.				
Guidebank/Spurs		7	7					
Adequacy of Opening			8					
(Fish Compensation Measure 1	: NONE)		-					
(Fish Compensation Measure 2	: NONE)							
Channel General Rating		4	4					

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73077 -1 Bridge

			Maintenance Recomm									
Inspector Recommendations	Yea	r Inspect	or Comments	Department	Commen	ts		Target Year	Est. Cost	Cat		
REPAIR/REPLACE BRIDGE RAIL	201	2 Install 3 flexbear Drill thro	/4" dia x 3" long galv bolt @ SE m to rail connection - c/w nut & was bugh rail to install.	sher.								
GALVANIZE/PAINT BRIDGE RAIL												
RETROFIT BRIDGE RAIL												
SEAL CURBS	201	2 Patch E	ast curb exposed waterstop and se	eal.								
PATCH DECK												
SEAL DECK												
OVERLAY DECK												
REPAIR/REPLACE DECK JOINTS	201		weld fingers in both abutment joint	s.								
RESET/ PAINT BEARINGS	201	2 Reset.										
REPAINT SUPERSTRUCTURE												
STRAIGHTEN/REPLACE MEMBERS	6											
WASHING												
SHOTCRETE REPAIRS												
REPAIR ABUTMENT SCOUR/EROS	ION											
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
OTHER ACTION		2 Repair S top - 1 r	South abutment slope protection, s n3 fillcrete & tar.	eal								
OTHER ACTION		2 Install 2 blocking	posts to rail bolts at S guardrail, c/ J.	/w								
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/N (%)	low) 72.2	2/72.2	Sufficiency Rating (Last/Now) (%)	67.4/67.5	Es	t. Repl. Yr	2043	Maint. Rec	ιd. (Y/N)	Yes		
Special Comments for Next Inspection				Department Comments								
Maintenance Reviewed By				Date			E	Estimated Total	0			
Proposed Long-Term Strategy	2003.06.25	Chip coat in	2007 or polymer in 2009. Second i	ntervention 2030. r	eplace bi	idge in 2060.						
On 3-Year Program (Y/N) Y		•										
	2003.06.25	Chip Coat in	2007 or Polymer in 2009.									
Proposed Action						Assistant's Name						
	Owen Sala	/a	Prev	ious Assistant's Na	me							
Previous Inspector's Name	Owen Sala			ious Assistant's Na ious Inspection Dat		11-Mar-2010	)					
Proposed Action Previous Inspector's Name Next Inspection Date Inspection Cycle (Default) (months)						11-Mar-2010	)					