Bridge Inspection															
Bridge File Num	ber	72641 -1 Bridge						Form Type		PT					
Year Built/Year		1938/1938							Lot No.		2				
Supstr									Inspector Name			Garry Roberts			
Bridge or Town Name CADOMIN								Inspe	Inspector Class			BR CLS A			
Located Over			D RIVER,	8.11.10	7, WATE	RC	RS-ST	Assis	stant N	Name		Randy Bred	0		
Located On		40:26 C	1 26.003					Assis	stant (Class		BR CLS A			
Water Body Cl./								Inspe	ection	Date		07-Jun-2012	2		
Navigabil. Cl./Ye								Data Entry By Theresa Lacusta							
Legal Land Loca			22 TWP		23 W5M			Data	Data Entry Date 15-Oct-2012						
Longitude, Latitu	ıde		44, 53:04					Revi	ewer l	Name		Eric Carcou	x		
Road Authority			Transport	ation (Al	T)			Revi	ew Da	ite		08-Oct-2012	2		
Contract Main. A		CMA13						Dept	. Revi	ewer N	ame	Brent Herric	k		
Clear Roadway/	Skew	7.9 /								ew Date		13-Nov-2012	2		
AADT/Year		160 / 20	11 (A)					Follo	w-Up	Ву					
Road Classificat	tion	RCU-20	9G-90					_	·	•					
Detour Length (I		83			1										
Allowable Load	(t): Sin	ngle CS1	I 30 RINGER		Semi		S2 51 IU2			Train	U2	33 63		> On Critical Spans> Critical Member	
Design Loading:		HS1				0	102				02	.03		> Primary Span	
						Po	sting Ir	nform	ation					, ,	-
Required Load F	Posting	ı (t)		Single					Semi				Truck Train		
Posted Loading	(t)			Single					Semi			Truck Train			
Posted:	Lane	EB		At Junc	tion (Y/N	1)	No	I	n Adv	ance (Y	//N)	No	At B	ridge (Y/N)	No
Posted:	Lane	WB			tion (Y/N		No	I	n Adv	ance (Y	//N)	No		ridge (Y/N)	No
Remarks	Not re	equired.								•					
Hazard Marker	At Bride	ge (Y/N)	Yes												
Remarks		<u> </u>													
Other Sign Type	es		Informa	tion											
						Ut	ilities (L	ocate	ed at)						
Utility Attachmen	nts T	ELEPHO	NE UTILI	TIES-PH	ONE LIN	ΝE									
Telephone	North	on bridge	e/conduit.					Gas							
Power	3 lines	s north r/v	v and cro	sses Eas	st.				Municipal						
Others								Prob	lem (\	//N) N	No				
Remarks															
							Approa	ch Ro	ad						
					La	ast	Now	Expl	anatio	on of C	ondi	tion			
Horizontal Align	ment					5	6	Curv	es on	both er	nds 8	crest. Bridge	e is or	uphill grade t	o East.
Vertical Alignme	ent					6	6								
Roadway Width	Roadway Width (m)		11.000					grave	el						
Approach Bump				5	5										
Guardrail (Y/N) Yes										d SE. Damag	ed fle	xbeam at SE.	Missing 2		
Guardrail					N	3		e boits hrie b	s at SW eam	•					
Length (m)			11.400												
Current Stand	ard (Y/	N)	No												
Termination T	уре		Turned	Down											
Drainage						N	7								
Approach Road	Approach Road General Rating				5	6									

	Superstructure								
Bridge Comp	ponent			Last	Explanation of Condition				
		ns, Lengths	m): 24.4, A-lde	ent Nun		N0032-11;A0032-15)			
Special Feat			•						
Special Featu					4	Diagonal Strengthening Rods.			
(Type:)				X		U2L3, U4L3, U5L4 on South truss are loose.			
Special Feat	ıre								
(Type:)									
Wearing Surf	ace/Deck Top	Detail Ratin	gs						
	N (%)	1 (%)	2 (%)	3 (%)					
Last	100	0	0		0				
Now									
Wearing Surf	ace/Deck Top)		N	6				
(Material Ty	ype : COPPE I	R CHROMAT	E ARSENATE	TREAT	ΓED				
(Plank Thic	kness(mm):	75)							
(Plank Wid	th(mm) : 300)								
Deck Rideability 7					7				
Deck Joints				Х	Х				
Temperatu									
(Expansion									
(Fixed Type									
Gap Size (r	mm)	Gap	Location						
						-			
Curbs/Wheel				N	4	5 TT blocks rotated/missing. 5 blocks split, bolts missing og washers at SW and NW cornersstill			
	: Standard)					functional			
` • •	EATED TIMB	ER)							
	(mm) : 200)								
(Width(mm) : 250)								
Bridge Rail				4	4	Double layer flexbeam. Clipped to vertical chords. 6 splice bolts missing.			
	LVANIZED S	TEEL FLEX	BEAM)			SW end post cracked 45%.			
_	osts/Blocking	OT 0===: \		5	4				
(Type : POST STEEL;POST STEEL)						Surface corrosion at blocking. Galvanize is good.			
Bridge Rail/P				4	4	-			
(Type : PAI	IN I)								
Sidewalk				X	X				

				Supers	structure				
Bridge Component			Last						
(Primary Span : PT, 1 Spans,	. Lenaths()	m): 24.4. A-Ide			·				
Wide Load Damage (Y/N)	No				Maximum 25mm sweep in top chord, strengthened.				
Top Chord	110		6	6	Indivinum 2011111 0W00p III top onord, otrongthonod.				
Batter Posts			6	6	U2L2N outside truss has 1 bullet hole.				
Diagonals			5	5	1 clip angle missing at U1L1S inside trussnot required				
Verticals			5	5	1 bolt missing on LŽS horizontal gusset plate. Abutment floor beams supported @ 4 points.				
Connections			5	4	L1L1, L2L2, L4L4 & L5L5 have welded butt splices. Welded tie				
Floor Beams			5	5	plates. Welded butt flanges plus minor bends. L2L3N and L3L4N missing holes through outside plates.				
Bottom Chord			5	5	8 bay x 6 bays.				
Lateral Bracings			5	5	Bay 1 stringer 1 bottom flange bent up 60mmphoto Choker damage SW corner to stringer and lower cross brace.				
(No. of Stringers : 48)			<u> </u>		Refer to 2012 UT report.				
Stringer Detail Ratings					Isolated missing bolts and rough torched holes.				
	(count)	2 (count)	3 (cou	ınt)	See UT 2012 for minor defects.				
Last	(court)	2 (oount)	0 (000	<i></i>					
Now					-				
Stringers		-1	5	5					
(Type : STEEL)			<u> </u>	_					
(Width(mm) : 170)									
(Depth(mm) : 360)									
(Spacing(mm) : 1150)									
Paint Condition			3	4	Top coat and primer 30% corroded.				
(Colour Description :)					Silver.				
(Colour Code :)					- Silver.				
Touchup Required (Y/N)	No								
Bearings			3	3	SW masonry plate bent, grout pad deteriorated and bearing plate				
Temperature (deg. C)	10				bent up 20mmphoto Gravel & dirt on seats.				
(Expansion Type : SLIDING	PLATE)				Stavor a directivocato.				
(Fixed Type : PINNED BEA	RING)								
Functioning (Y/N)	Yes								
Sub Deck/Deck Underside			6	5					
(Material Type : TREATED	TIMBER)								
(Plank Thickness(mm): 150	D)								
(Plank Width(mm): 300)									
Defects (Percent Area)	2								
Span Alignment Problems									
Vertical (Y/N)	No								
Horizontal (Y/N) No									
Superstructure General Rat	ing		3	3					
				Suber	ructure				
Bridge Component			Last	Now	Explanation of Condition				
Abutments				,					
(Extended Backwall Piles (Y	//N) : N)								
(Extended Backwall Piles S		1 ·)							

					Subst	ructure
Bridge Component					Now	Explanation of Condition
(Total Number of Caps/Corbels : 1:1)					INOW	Honeycomb on East abutment.
Bearing Seats/Caps/Corbels Detail Ratings						Tioneycomb on Last abutilient.
bearing deat	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last	14 (Count)	1 (Court)	2 (Court)	3 (600	1111 <i>)</i>	
Now						
	Bearing Seats/Caps/Corbels			6	6	
	•	;15		0	0	
(Type : CO						
(Depth(mm						
(Width(mm						
Backwalls/Br				6	6	Medium scaling East breastwall.
Greatest H	eight (m)	3.60			I	
Wingwalls				6	6	
(Total Number	er of Bearing F	Dilas · N·N)				Buried.
Piles Detail F		- IIes . U.U)				Burieu.
Tiles Detail I	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last	100					
Now	100	0	0		0	
	10					
Piles				N	N	
Paint/Coating	g			X	X	
Abutment Sta	ability			7	7	
, touthont oldomy			·			
Scour/Erosion			4	N	Erosion at SE abutment undermining abutNov 2010	
						Water to high to confirm
						Previously rated 4
Piers/Bents						
(Type :)						
(Total Number	er of Caps/Co	rbels:)				
Bearing Seat	s/Caps/Corbe	ls Detail Rati	ngs			
	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last						
Now						
Bearing Seat	ts/Caps/Corbe	els		X	Х	
(Type:)						
	er of Bearing I	Piles :)				
Piles Detail F						
	N (count)	1 (count)	2 (count)	3 (cou	ınt)	
Last						
Now						
Pier Shaft/Pi	les			Х	Х	
Greatest H	eight (m)					
Bracing/Strut				Х	Х	
Nose Plate				X	X	
D: 1/0 //			V	V		
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				X	X	
Scour				X	X	
Scoul						
Debris (Y/N)		No				

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Substructure General Rating		6	6						
			re Usage						
011		Last	Now	Explanation of Condition					
Channel									
(U/S Direction : S)				Stream impinging on SE corner eroding bank. Gravel bar forces flow					
(D/S Direction : N)			_	to East bank.					
Alignment	Alignment								
Bank Stability		6	6						
HWM (m below Top of Curb)				(Water to deck 4.2m; bed to deck 5.0m18-Apr-2007)					
Drift (Y/N)	Yes			HWM not visible.					
Slope Protection		4	4	Class 2 on West bank. Natural rock on East bank.					
(Type: RIP RAP; RIP RAP)				Not enough rock @ SE corner-photo					
Guidebank/Spurs		Х	Х						
Adequacy of Opening			5						
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

72641 -1 Bridge

Maintenance Recommendations									
Inspector Recommendations	Year	Inspecto	or Comments	Department Com	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install 6	splice bolts.						
RETROFIT BRIDGE RAIL			•						
PATCH DECK									
REPLACE SUB DECK									
RESET/ PAINT BEARINGS									
REPAINT SUPERSTRUCTURE									
STRAIGHTEN/REPLACE MEMBERS									
WASHING	2012	Clean al	butment seats & deck top, if not done.						
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP	2012	@ SE co	orner 5-10m3						
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2012	Provide new pini	new grout pads @ West abutment and ned masonry plate.						
OTHER ACTION	2012	Replace SE. Rep	e damaged guardrail posts @ NW and pair SW turned down end.						
OTHER ACTION	2012		e 5 damaged WG blocks and add 2						
OTHER ACTION	2012	Drill out	and install bolt in bullet hole at U2L2N.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
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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) (%)	18.5/48.8	Est. Repl. Yr	2028	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments	•				

Alberta Transportation	Bridge Inspection & Maintenance	System	(Web	2005)
Alberta Transportation	bridge inspection & Maintenance	System	(Men	2003)

72641 -1 Bridge

Maintenance Reviewed By		Date	Estimated Total 0
Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Shane Hall	Previous Assistant's Name	
Next Inspection Date	07-Mar-2014	Previous Inspection Date	22-Nov-2010
Inspection Cycle (Default) (months)	21		
Comment			