Bridge Inspection																
Bridge File Num	ber	01097 -1 Bridge							Form Type			тн тт				
Year Built/Year		1909/1907							Lot No.			2				
Supstr							Inspector Name			Paul Carter						
Bridge or Town I	Name	FORT MACLEOD							Inspector Class			BR CLS A				
Located Over		OLDMAN RIVER, 2.12, WATER				CRS-	ST		Assistant Name							
Located On		811:02	C1 0.793					As	sistant C	lass						
Water Body CI./	Year								pection			20-Jan-2010)			
Navigabil. Cl./Ye	ar								ta Entry			Jill Potts				
Legal Land Loca	ition	SE SE	C 13 TWP	9 RGE 2	26 W4N	М			ta Entry			11-May-201	1			
Longitude, Latitu	ide	-113:23	3:53, 49:43	:55					viewer N			Garry Robe				
Road Authority		Alberta	Transport	ation (Al	T)				view Da			20-Mar-201				
Contract Main. A	rea	CMA26	3					-	pt. Revie		Jame	Tim Davies				
Clear Roadway/	Skew	5 /							pt. Revie			20-May-201	1			
AADT/Year		1,240 /	2010 (A)						llow-Up I			20 May 201	•			
Road Classificat	ion	RCU-2	08-110							_,						
Detour Length (F	(m)	12														
Allowable Load (t): Sin	igle H	25 DINIOED		Semi		3 40			Train	CS	3 62		> On Critical Spans		ns
Design Leading			RINGER			U1	L1							>Critical M		
Design Loading:		H	S20			De	oting [nfor	mation					> Primary	Span	
Poguired Vert C	logran	oco Poct	ing (m)			PC	sung	mor	mation							
	Required Vert. Clearance Posting (m) Posted Vertical Clearance (Y/N) Yes															
	NB		·	Yes	ام ۸ مار	20000	(\//NI)	Yes	Lane	SB		n Dridge (m)	1 1	In Advance	/\//NI\	Vac
Posted: Lane Remarks	ane NB On Bridge (m) 4.4 In Advance (Y/N) Yes Lane SB On Bridge (m) 4.4 In Advance (Y/N) Yes Measured 4.58 both ends.									Yes						
			o botti end				٥٢		C =:			40	Turrel	l. Tuain		
Required Load F		Ι (τ)		Single			25		Semi			40	Truck Train		00.0	
Posted Loading		lup.		Single		(A.D.	25.0		Semi		40.0	Truck Train		62.0		
Posted:	Lane	NB		At June	•	` ′			In Advance (Y/N)			Yes	At Bridge (Y/N)		Yes	
Posted:	Lane	SB		At Junc	ction (Y	(/N)	No		In Advance (Y/N)			Yes At Bridge (Y/N) Yes				
Remarks																
Hazard Marker A	At Brid	ge (Y/N)		_												
Remarks				d 400mn												
Other Sign Type	S		Narrow	bridge,	stop if	oncoming traffic, max 30 km/hr, one lane. Utilities (Located at)										
Licitia August				TIEO DI	IONE		ilities (Loca	ited at)							
Utility Attachmer			ONE UTILI	HES-PH	IONE	LINE		Con Foot 20m from all								
Telephone			m chord.	1	//				Gas East 30m from c/l. Municipal Water station at NE							
Power			m East & V		/1.			•			station at Ni	tation at NE				
Others	iviuitip	ne lines	both sides.					Pro	oblem (Y	/IN)	No					
Remarks							A 10 10 11 0	a la -	2004							
						Last	Now		ch Road Explanation of Condition							
Horizontal Aligni	nent					5	4					adequate for	noste	d speeds		
Vertical Alignme						6	6		arp tuill	2011	, ius, e	aacquaic iUl	POSICI	a opocus.		
Roadway Width			7.600			0	0	ιΛe	enhalt se	ttlad	minor	hump July S	2 200	09 UT report}		
Approach Bump	` '		7.000			5	4	۱۸۰۶	ארומונ אלי	ilicu,		bump. July 2	. <u>,</u> 200	oo o i iehoit}		
			Voc			3	4	Inc	orroot or	olice Is	an at C	SW wing and	hut fl	ared from lan		
Guardrail (Y/N) Yes					5	7		t thriebe		ap at 3	vv willy ella	, but II	area nom latt	-		
Guardrail 23,000				3												
Length (m) 22.000 Current Standard (Y/N) No																
		11)	Turn Do	nwn												
Termination Ty	/pe		Tuili D	JVVII		6	7									
Drainage						О	'									
Approach Road	l Gene	eral Rati	ng			5	4									

				,	Supers	tructure
Bridge Comp	onent			Last	<u> </u>	Explanation of Condition
(Primary Spar	: TH, 4 Spa ı	ns, Lengths(m): 53.3-53.3-	53.3-8.5	, A-Ide	ent Number: A0108-03;A0108-01;A0108-02)
Special Featu	ires					
Special Featu	re				X	{Dwydag strengthening. July 22, 2009 UT report}
(Type:)						
Special Featu	re				X	
(Type:)						
Wearing Surfa	ice/Deck Top	Detail Rating	IS			
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0		0	
Now						
Wearing Surfa	ce/Deck Top			5	5	Lagged in @ ends.
(Material Ty	pe : UNTREA	TED TIMBE	₹)			
(Plank Thick	ness(mm) : 7	'5)				
(Plank Width	n(mm) : 300)					
Deck Rideability					7	
Deck Joints			Х	Х		
Temperature (deg. C)						
(Expansion	Type:)					
(Fixed Type	:)					
Gap Size (m	nm)	Gap	Location			
Curbs/Wheel	Guards			5	4	(Minor plow damage, still functional. July 22, 2009 UT report)
(Curb Type	Standard)					
(Type : TRE	ATED TIMBE	ER)				
(Thickness(r						
(Width(mm)	: 300)					
Bridge Rail				4	4	(Missing 67 splice bolts, 3 rail blocks & 2 post bolts missing nuts.
	VANIZED ST	TEEL FLEX E	BEAM)			3 layer & 2 row steel wire. July 22, 2009 UT report} U bolts holding cable broken @ one location.
Bridge Rail Po				4	4	No steel end posts.
	T STEEL;PC	ST STEEL)			1	
Bridge Rail/Po				5	7	
(Type : PAII	NT)					
				X	X	I and the second

				<u> </u>	tructure
Bridge Component					Explanation of Condition
(Primary Span : TH, 4 Spans, Le	engths(n	n): 53.3-53.3-5	3.3-8.5	5, A-Ide	ent Number: A0108-03;A0108-01;A0108-02)
Wide Load Damage (Y/N)	Yes				{U9L9W span 1 has minor local bend @ wheelguard height, 25mm.
High Load Damage (Y/N)	No				Minor notches @ North portal @ span 3 & South portal @ span 2. Sway bracing @ U2, U3, U5, U6, U7, U8. S1-U2U2, U3U3, U5U5
Top Chord			7	7	bowed. S3-U9LW8 dented. S1-U9L9W, S3-U8L8W dented. Span 1 bent 25mm to 175mm. Span 3 U8L8 & U9L8W 40mm local
Batter Posts			7	7	bends at East truss.
Sway Bracings			5	5	Strengthened with 2-75 x 75 angle floor beams.
Diagonals			6	5	S3-U1L2W missing 1 tie plate bolt. July 22, 2009 UT report}
Verticals			4	5	Dwydag rods in bottom chords.
Portals			6	5	Dwydag rods in bottom chords.
Connections			5	5	{5 - 205 x 165 @ 800.
Floor Beams			7	7	6 - 250 x 120 @ 770 + 2 channels.
Bottom Chord			7	7	Original spacing left. July 22, 2009 UT report}
(No. of Stringers : 130;130;130)					13 stringer/bay x 10 bays x 3 spans
Stringer Detail Ratings					
N (count) 1 (c	ount)	2 (count)	3 (cou	unt)	
Last					
Now					
Stringers			6	7	
(Type : STEEL)					
(Width(mm) : 200)					
(Depth(mm) : 510)					
(Spacing(mm) : 774)					
Paint Condition			5	6	{Isolated areas of minor surface corrosion. July 22, 2009 UT report}
(Colour Description : GREEN)					green
(Colour Code : 503-113)					
Touchup Required (Y/N)	No				
Bearings			6	7	{Exp. @ S1@P1, S2@P2, S3@P3.
Temperature (deg. C)	31				Fully, 3/4 U/S, 3/4 U/S.
(Expansion Type : ROLLER N	EST BE	ARING)			1/2 D/S. 1/2 D/S. July 22, 2009 UT report}
(Fixed Type : STEEL SLIDING IN BETWEEN; PINNED BEAR		S WITH BRON	NZE PL	ATE	
Functioning (Y/N)	Yes				
Sub Deck/Deck Underside			5	5	{Laminated 50 x 100 subdeck @ Span 1. Some deteriorated @ span
(Material Type : TREATED TII	/IBER)				#1 laminated subdeck, splits plus 1 with end rot @ SW, some too short. July 22, 2009 UT report}
(Plank Thickness(mm) : 100)					
(Plank Width(mm): 300)			1		
Defects (Percent Area)	2				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating				5	
				0	(management of the control of the co
Bridge Component					Explanation of Condition
(Secondary Span : TT)			LaSi	INOW	Explanation of Condition
Special Features					
Special Feature				X	
(Type:)					
Special Feature				X	
(Type:)					-
(1)					

					Supers	structure					
Bridge Component						Explanation of Condition					
(Secondary S					,						
Wearing Surfa		Detail Ratino	IS.								
VVouning Guine	N (%)	1 (%)	2 (%)	3 (%)							
Last	0	0	0		0						
Now					<u> </u>						
Wearing Surfa	ace/Deck Top			5	4	{Lagged in @ ends. Heavily checked & abrasive wear. July 22, 2009					
	pe : UNTREA		R)			UT report}					
`	kness(mm) : 7		- /			-					
,	h(mm) : 300)										
Deck Rideabi				6	7						
Wheel Guards	<u> </u>			5	5	Scraped but functional.					
	: Standard)										
	EATED TIMBE	========== ER)									
(Thickness(,				-					
(Width(mm)											
Bridge Rail	. 555)			4	5	Single layer.					
	VANIZED ST	TEEL ELEX E	RFAM)			8 missing bolts @ splices.					
` • •	(Type : GALVANIZED STEEL FLEX BEAM) ridge Rail Posts										
	ridge Rail Posts (Type : TREATED TIMBER;TREATED TIMBER)										
` •			/ IIIIIDEIX)	6	6						
Bridge Rail/Posts Coating 6 6 (Type: GALVANIZED)											
(No. of Stringe						{Angle and cable bracing @ mid span. 2nd from East twisted.					
Stringer Detai	· · · · · · · · · · · · · · · · · · ·					Varies, new stringers were added, 4 stringers doubled up.					
Othinger Detail	N (count)	1 (count)	2 (count)	3 (co	unt)	400 to 800 mm spacing. July 22, 2009 UT report					
Last	0	0	0	0		-					
Now											
Stringers				5	6	-					
	EATED TIMBE	ER)									
(Width(mm)											
(Depth(mm)	•										
(Spacing(m	·										
Sub Deck/Dec				5	5						
	pe : TREATE	D TIMBER)				1					
	kness(mm) : 1					1					
	h(mm) : 300)										
Defects (Pe	. , ,	2									
Span Alignm											
Vertical (Y/N		No									
Horizontal (No									
Superstructu				5	5						
					Subst	ructure					
Bridge Comp	onent			Last	Now	Explanation of Condition					
Abutments											
(Extended E	Backwall Piles	s (Y/N) : Y)									
(Extended F	Backwall Piles	Spacing(mm) : 2000)								

					Subst	ructure				
Bridge Com	dge Component			Last Now						
(Total Number of Caps/Corbels : 1:1)					Concrete abut. at South					
	aring Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		0					
Now										
Bearing Seat	s/Caps/Corbe	els		6	6					
(Type : TRE	EATED TIMB	BER)								
(Depth(mm) : 300)									
(Width(mm)) : 300)									
Backwalls/Bro	eastwalls			5	5	{Timbers separating. July 22, 2009 UT report}				
Greatest He	eight (m)	1.40								
Wingwalls				5	5					
(Total Numbe	er of Bearing	Piles : 5:5)				T.T piles N. abut				
Piles Detail R										
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		0					
Now										
Piles				6	6					
Paint/Coating	int/Coating				X					
Abutment Sta	Abutment Stability									
Scour/Erosion					7					
Piers/Bents										
(Type : PIE	R-SOLID)					{Top of pier 1 and 2 have medium to heavy scaling. July 22, 2009 UT				
(Total Number	er of Caps/Co	orbels : 1:1:1)				report}				
Bearing Seats	s/Caps/Corbe	els Detail Rati	ngs							
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		0					
Now										
Bearing Seat	s/Caps/Corbe	els		4	4					
(Type : CO	NCRETE)									
(Total Number	er of Bearing	Piles : 0:0:0)				{Cracked but functional. Wide cracks in random checked pattern and				
Piles Detail R						vertical wide cracks below anchor bolts, 4mm to 8mm wide cracks. July 22, 2009 UT report}				
	N (count)	1 (count)	2 (count)	3 (cou						
Last	0	0	0		0					
Now					1	-				
Pier Shaft/Pil				5	5					
Greatest Height (m) 5.20 Bracing/Struts/Sheathing					Х					
Nose Plate				6	7					
						(Curtage correction @ page plates No coefficient to this 20, 2000				
Paint/Coating (Colour Des				4	4	{Surface corrosion @ nose plates. No coating at piers. July 22, 2009 UT report}				
(Colour Code :)										
Pier Stability				7	7					
Scour				6	N					
Debris (Y/N)		Yes				Minor drift at p 2				

Substructure										
Bridge Component		Last	Now	Explanation of Condition						
Substructure General Rating		4	5							
		S	Structu	re Usage						
			Now	Explanation of Condition						
Channel										
(U/S Direction : W)				{Flows against north bank @ high water. July 22, 2009 UT report}						
(D/S Direction : E)										
Alignment		4	5							
Bank Stability			5	{Spurs and rock @ NW & SE. July 22, 2009 UT report}						
HWM (m below Top of Curb) 4.0				((2.1m below top stringers South side - 97/01/08)) (Water-deck 6.1m						
Drift (Y/N)	Yes			(Water to deck 6.5m. 97/01/08) Minor drift						
Slope Protection		5	5							
(Type : RIP RAP; RIP RAP)										
Guidebank/Spurs			7	4 rock spurs u/s						
Adequacy of Opening			7							
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		4	5							

01097 -1 Bridge

			Maintenance Recomm	nendation	s					
Inspector Recommendations	Year	Inspecto	or Comments	Dep	artment Comr	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	(67 flext) 2009 UT	peam splice bolts, 3 blocks. July 22 report}	·-,						
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
OVERLAY DECK										
REPLACE STRIP DECK										
REPLACE SUB DECK	2012	{Replace report}	e rotted planks. July 22, 2009 UT							
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS	2011	{Straightand U8L 2009 U7	ten U9L9W, U7L7, U3U3 on span 3 .8W plus U9L8W on span 1. July 22 report}	3, 2,						
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	{Raise h	nazard markers. July 22, 2009 UT							
OTHER ACTION	2012	{Epoxy s	seal pier top. July 22, 2009 UT repo	ort}						
OTHER ACTION	2012	{Patch approach ACP. July 22, 2009 UT report}								
OTHER ACTION	2012	{Add bolt at splice plates U1L2W span 1 & 2 July 22, 2009 UT report}		2.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	44.4/55	.6	Sufficiency Rating (Last/Now) (%)	40.3/3	37.3	Est. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					artment nments					
Maintenance Reviewed By				Date	9		E	stimated Total	0	
Proposed Long-Term Strategy					'				_	
On 3-Year Program (Y/N)										

Alberta Transportation

Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	
Next Inspection Date	20-Apr-2013	Previous Inspection Date	19-Jan-2010
Inspection Cycle (Default) (months)	39		
Comment			