Bridge Name 1970/14-1 Bridge	Bridge Inspection																
Inspector Name	Bridge File Number 77074 -1 Bridge										TH						
Bridge of Town Name SUNDRE			1970/1948						Lot	Lot No.			2				
Located One									Ins	pector N	Name		Garry Roberts				
Located On 734-12 C1 35.003 Assistant Italian Assistant Class Assistant Cl		Name								Inspector Class							
Water Body CL/Year Navigabil CL/Year Nav					95, WA	TERCR	RS-ST			Assistant Name							
Navigabil. Cl./Year Logal Land Location Logal Land Location		_	734:1	2 C1 35.003					Ass	sistant C	Class						
Legal Land Location									Ins	pection	Date		21-May-201	2			
Longitude, Latitude									Dat	a Entry	Ву		Marcia Chav	ez/			
Review Pate Set Se						9 W5M			Dat	a Entry	Date		20-Aug-2012	2			
Contract Main. Area CMA18		ıde							Rev	viewer N	Name		John O'Brier	ı			
Dept. Review Pame Andrew Smikles Andrew Smikles Dept. Review Date 21-Aug-2012					ation (Al	T)			Rev	view Da	te		28-Jul-2012				
AADT/Year 100 / 2011 (A) Follow-Up By Follo									Dep	ot. Revi	ewer	Name	Andrew Smi	kles			
Road Classification		Skew							Dep	ot. Revi	ew Da	ate	21-Aug-2012	2			
Detour Length (km) 50				. ,					Fol	low-Up	Ву						
Allowable Load (t): Single CS1 40 STRINGER Semi CS2 60 Train CS3 74 > On Critical Spans > Critical Member Critical Member				208G-90					-								
STRINGER		<u> </u>				1	Τ					1					
Design Loading:	Allowable Load ((t): Sin				Semi					Train				> On Critical Spans		าร
Posted Vert. Clearance Posting (m)	Design Loading:						02					02					
Required Vert. Clearance Posting (m)	Doorgii Loadiiig.		, I	1020			Po	ostina li	nforr	nation					> i iiiiai y	Орин	
Posted Vertical Clearance (Y/N)	Required Vert. C	Clearan	ce Po	stina (m)													
Posted: Lane	•				Yes												
Remarks Measured 4.89 & 4.9m. Clearance sign detached & chipped at S bracket; 1 bolt pulled through.						In Adva	nce	(Y/N)	Yes	Lane	SB	С	On Bridge (m) 4.7		In Advance (Y/N)		Yes
Required Load Posting (t) Single Semi Truck Train				U ()				, ,					<u> </u>			(- , ,	1.00
Posted Loading (t) Single Semi Truck Train	Required Load F																
Posted: Lane NB			(-)														
Posted: Lane SB			NF	 3		tion (Y/	N)	No					No			No	
Remarks Not required. Hazard Marker At Bridge (Y/N) Yes Remarks SE too low. Other Sign Types Narrow bridge, max 1 truck on bridge, stop if oncoming traffic, river ID. Utilities (Located at) Utility Attachments Telephone Gas Power Municipal Others Problem (Y/N) No Remarks None visible. Approach Road Last Now Explanation of Condition Horizontal Alignment 5 5 5 Curve at both ends. Limited sight distance. Vertical Alignment 6 6 6 Roadway Width (m) 7.000 Approach Bump 6 5 5 Guardrail (Y/N) No Guardrail (Y/N) No Current Standard (Y/N) Termination Type Drainage 7 6																	
Hazard Marker At Bridge (Y/N) Yes							,	110		1117101	41100	(1714)	110	, D.	lago (1714)	110	
Remarks																	
Other Sign Types Narrow bridge, max 1 truck on bridge, stop if oncoming traffic, river ID. Utility Attachments		W Dilag	JO (171		low												
Utility Attachments		s				max 1 tı	ruck	on bride	ie. st	op if on	comir	ng traff	fic. river ID.				
Utility Attachments	o and onger type				g.,							.g	,				
Cas	Utility Attachmer	nts															
Power Municipal Problem (Y/N) No									Gas	 S							
None visible None visible None visible None visible																	
Approach Road Last Now Explanation of Condition Horizontal Alignment 5 5 5 Curve at both ends. Limited sight distance. Vertical Alignment 6 6 6 Roadway Width (m) 7.000 Approach Bump 6 5 Gravel. Guardrail (Y/N) No Guardrail X X X Length (m) Current Standard (Y/N) Termination Type Drainage 7 6	Others										′/N)	No					
Approach Road Last Now Explanation of Condition Horizontal Alignment 5 5 Curve at both ends. Limited sight distance. Vertical Alignment 6 6 6 Roadway Width (m) 7.000 Approach Bump 6 5 Gravel. Guardrail (Y/N) No Guardrail (Y/N) No Current Standard (Y/N) Termination Type Drainage 7 6	Remarks	None	visible).						`							
Horizontal Alignment Vertical Alignment 6 6 Roadway Width (m) Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Standard (Y/N) Termination Type Drainage Curve at both ends. Limited sight distance. Gravel. Gravel. Gravel. Gravel.								Approa	ch R	load							
Vertical Alignment 6 6 Roadway Width (m) 7.000 Gravel. Approach Bump 6 5 Guardrail (Y/N) No X Guardrail X X Length (m) Current Standard (Y/N) Termination Type 7 6						L					n of	Condi	ondition				
Roadway Width (m) 7.000 Gravel.	Horizontal Alignr	ment					5	5	Cur	ve at b	oth er	nds. Lir	mited sight dis	stance) .		
Approach Bump 6 5 Guardrail (Y/N) No Guardrail X X Length (m) Current Standard (Y/N) Termination Type Drainage 7 6	Vertical Alignme	nt					6	6									
Approach Bump 6 5 Guardrail (Y/N) No Guardrail X X Length (m) Current Standard (Y/N) Termination Type Drainage 7 6	Roadway Width																
Guardrail X X Length (m) Current Standard (Y/N) Termination Type Drainage 7 6	Approach Bump				6	5	Gra	ivel.									
Length (m) Current Standard (Y/N) Termination Type Drainage 7 6	Guardrail (Y/N) No																
Current Standard (Y/N) Termination Type Drainage 7 6	Guardrail				Χ	X											
Termination Type Drainage 7 6	Length (m)																
Drainage 7 6	Current Standard (Y/N)																
	Termination Ty	Termination Type															
Approach Road General Rating 5 5	Drainage						7	6									
	Approach Road	l Gene	ral Ra	nting			5	5									

Superstructure Bridge Component Last Now Explanation of Condition (Primary Span : TH, 1 Spans, Lengths(m): 34.1, A-Ident Number: A0664-03) Special Features Special Feature X (Type :) Special Feature X (Type :) Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
(Primary Span : TH, 1 Spans, Lengths(m): 34.1, A-Ident Number: A0664-03) Special Features Special Feature X (Type :) Special Feature X (Type :) Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
Special Feature X (Type:) X Special Feature X (Type:) X Wearing Surface/Deck Top Detail Ratings N (%) N (%) 1 (%) 2 (%) 3 (%)						
(Type:) Special Feature X (Type:) Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
Special Feature X (Type:) Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
(Type:) Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
Wearing Surface/Deck Top Detail Ratings N (%) 1 (%) 2 (%) 3 (%)						
N (%) 1 (%) 2 (%) 3 (%)						
Last 100 0 0 10% gravel.						
Now 10.0 0.0 0.0						
Wearing Surface/Deck Top N 4 Wearing up to 40mm along wheel path.						
(Material Type : UNTREATED TIMBER) 6 planks split or rotted at ends.						
(Plank Thickness(mm): 75)						
(Plank Width(mm): 300)						
Deck Rideability 5 5						
Deck Joints X X						
Temperature (deg. C) 17						
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm) Gap Location						
Curbs/Wheel Guards N 4 2 blocks split & rotated at W side with 1 broken hook be	olt.					
(Curb Type : Standard)						
(Type : TREATED TIMBER)						
(Thickness(mm): 100)						
(Width(mm): 300)						
Bridge Rail 2 3 No railing after batter posts						
(Type : LATTICE) Missing 32 J-bolts (rail to truss).						
Bridge Rail Posts/Blocking 2 3 Truss members used as support. No steel end posts.						
(Type:)						
Bridge Rail/Posts Coating 4 4 10% failed.						
(Type : PAINT)						
Sidewalk X X						

						Supers	structure				
Bridge Comp	ponent				Last	Explanation of Condition					
		ns, Le	ngths(m): 34.1, A-Ide							
Wide Load D			No	, , , , , , , , , , , , , , , , , , , ,			Scraped and minor nicks.				
High Load Damage (Y/N) Yes							1				
Top Chord	3- (7,1.1)				7	7					
Batter Posts							Minor high load damage.				
Sway Bracing	gs				4	5	- Ivilior night load damage.				
Diagonals 7							60x130 dent in L1U1 at mid-height.				
Verticals					7	5	JOANGO GENERAL ETO FALENHO-HEIGHT.				
Portals					4	5	U1U1 has 4 notches, U6U6 has 2 notches				
Connections					4	4	Need new bolts at U1W, U3W, U4E & L7E (8-bolts).				
Floor Beams					7	7	Missing 1 bolt @ U6E & W gusset plates - not required. U3W has masking tape between contact surfaces.				
Bottom Chord	d				5	5]				
(No. of String							L1L2W bent & bowed from impact.				
Stringer Deta	·										
	N (count)	1 (cc	ount)	2 (count)	3 (co	unt)					
Last											
Now											
Stringers					7	7	13/bay.				
(Type : STE	EEL)										
(Width(mm)): 310)										
(Depth(mm) : 125)										
(Spacing(m	nm) : 570)										
Paint Condition 4						4	15% peeled between top coat & primer. 10% has rust blooming				
(Colour Des	scription :)						through paint. Blue.				
(Colour Co	de :)										
Touchup R	equired (Y/N)		No								
Bearings					4	5	North				
Temperatui	re (deg. C)		17				South				
(Expansion	Type : ROLL	ER N	EST BE	ARING)							
(Fixed Type	e : PINNED B	EARIN	IG)								
Functioning	g (Y/N)		Yes								
Sub Deck/De	ck Underside				4	5	Laminated.				
(Material Ty	ype : TREATE	ED TIN	IBER)				Subdeck @ S abutment between 4 and 6 split.				
(Plank Thic	kness(mm): 1	100)									
(Plank Widt	th(mm) : 50)										
Defects (Pe	ercent Area)		1								
Span Alignment Problems											
Vertical (Y/N) No											
Horizontal (Y/N) No											
Superstructi	ure General F	Rating			4						
						rueture					
Substr Bridge Component Last Now											
Abutments	POHEHIL				Lasi	Explanation of Condition					
(Extended Backwall Piles (Y/N) : Y)							8 - HP 310 x 94 corbel / 1 - HP 310 x 94 full length of cap in front & 2				
(Extended Backwall Piles Spacing(mm) : 1500)						- 310 x 94 short caps in back, and 1 TT top cap=12.					
(Extended Dackwall Files Spacing(IIIII) . 1300)											

					Subst	ructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
	er of Caps/Co	rbels : 12:12)				TT backwall caps at both abuts.					
		ls Detail Ratin	ngs			Short 1.5m end caps at NE & SE have rot but are not load carrying caps & do not affect cap rating.					
	N (count)	1 (count)	2 (count)	3 (cou	ınt)	Not included in cap count.					
Last	0	0	0		0						
Now	0	0	0		0						
Bearing Seat	s/Caps/Corbe	els		7	7						
(Type : STE	•			'							
(Depth(mm											
(Width(mm	•										
Backwalls/Br				7	6						
Greatest H	eight (m)	4.00									
Wingwalls				7	5						
_	er of Bearing F	Piles : 14:14)				2 rows of 7 piles at each abut with steel capital.					
Piles Detail R			2 (1)	0.4							
	N (count)	1 (count)	2 (count)	3 (cou							
Last	0	0	0		0						
Now	0	0	0		0						
Piles				7	5						
Paint/Coating	9			X	X						
Abutment Stability				4	5	S backwall leaning into truss - minor.					
Scour/Erosion					6						
Piers/Bents											
(Type :)											
	er of Caps/Co	rbels :)									
		ls Detail Ratir	ngs								
	N (count)	1 (count)	2 (count)	3 (cou	ınt)						
Last					<u>, </u>						
Now											
Bearing Seat	s/Caps/Corbe	els		X	Х						
(Type:)											
	er of Bearing F	Piles :)									
Piles Detail R	atings										
	N (count)	1 (count)	2 (count)	3 (cou	ınt)						
Last											
Now											
Pier Shaft/Pil	es			X	X						
Greatest H	eight (m)										
Bracing/Struts/Sheathing					X						
Nose Plate					Х						
Paint/Coating					Х						
(Colour Description :)											
(Colour Code :)											
Pier Stability					Х						
Scour					Х						
Debris (Y/N)		No									

		ructure		
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating			5	
			re Usage	
Channel		Last	Now	Explanation of Condition
				Curve u/s.
(U/S Direction : W)				Curve u/s.
(D/S Direction : E)				
Alignment		7	6	
Bank Stability			5	NE bank erosion.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Large-sized drift.
Slope Protection		5	5	
(Type: NATURAL; NATURAL)			
Guidebank/Spurs		Х	Х	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

			Maintenance Recommen	dations					
Inspector Recommendations	Year	Inspecto	or Comments	Department Co	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Upgrade steel en	e rail to double layer flexbeam, install d posts and tie in to new approach rail						
RETROFIT BRIDGE RAIL									
SEAL CURBS		Replace bolt.	e rotated wheelguard blocks & 1 hook						
PATCH DECK	2012	Replace	e 6 planks, 75x305x2.6.						
SEAL DECK									
OVERLAY DECK									
REPLACE STRIP DECK									
REPLACE SUB DECK	2016	Check s	subdeck at next stripdeck replacement.						
RESET/ PAINT BEARINGS									
REPAINT SUPERSTRUCTURE									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2016	Replace	e various bolts (see 2010 UT report).						
OTHER ACTION	2012		s to std height.						
OTHER ACTION	2012	Replace	e clearance sign at S portal.						
OTHER ACTION	2016		otches smooth at both portals.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now)	44.4/50	3.0	Sufficiency Rating (Last/Now)	54.8/56.7	Est. Repl. Yr	2028	Maint. Re	ad (V/N)	Yes
(%)	44.4/50).U	(%)	34.0/30.7	Est. Repl. 11	2020	Mairit. Re	qu. (1/11)	165
Special Comments for Next Inspection Piles and TT caps cored No rot found in piles or o load carrying caps & no	caps exept	at short to	p cap sections at each corner, but not G.Roberts, 21May2012.	Department Comments			·		
Maintenance Reviewed By				Date		F	stimated Total	1 0	

Alberta Transportation

Proposed Long-Term Strategy	2006.01.17 Bridge should be good until 2030 with normal maintenance. Substructure may drive rehab/replacement.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	21-Aug-2015	Previous Inspection Date	29-Nov-2010							
Inspection Cycle (Default) (months)	39									
Comment										