Bridge Inspection & Maintenance System (Web 2005)

							Bridge In	nspe	ction						
Bridge File Num	ber	70512 -′	1 Bridge					For	m Type	;		TH TT			
Year Built/Year Supstr		1906/19	06					Lot	No.			1			
Bridge or Town I	Name	ROSED	ALE					Ins	pector r	Name		Jason Saly			
Located Over		ROSEB		R. 3.33. V	WATE	RCRS	S-ST		pector (Jass		BR CLS A			
Located On		10X:02 (C1 2.453					Ass	sistant N	Name					
Water Body CI./	Year							Ass	sistant (Class		07.14 00.44			
Navigabil. Cl./Ye	ar								pection	Date		07-Mar-201	3		
Legal Land Loca	ition	SW SEC	2 19 TWP	28 RGE	19 W	4M		Dat	a Entry	By		Marcia Chav	/ez		
Longitude, Latitu	Ide	-112:39:	56, 51:24	:14				Dat	a Entry	Date		Z7-Mar-201	3		
Road Authority		Alberta -	Transporta	ation (Al	T)			Rev	viewer I	Name		John O Briel	n ว		
Contract Main. A	rea	CMA21									Namo	Chris Black	5		
Clear Roadway/	Skew	5.1 /							ot Rovi		ato	28-Mar-201	3		
AADT/Year		580 / 20	11 (A)					Fol	low-l lo	By	ale	20-10101-2013	5		
Road Classificat	ion	RLU-208	3-100						10W-0p	Ъу					
Detour Length (k	(m)	15													
Allowable Load (t): Sing	gle CS	1 28		Semi	C: S	S2 41 TRINGE	R		Train	n CS ST	3 58 RINGER		> On Critic >Critical M	al Spans ember
Design Loading:		HS	20											> Primary	Span
				1		P	osting Ir	nforr	nation						
Required Vert. C	learand	ce Postir	ng (m)												
Posted Vertical (Clearan	ce (Y/N))	Yes											
Posted: Lane	NB	On B	ridge (m)	5.1	In Adv	ance	(Y/N)	No	Lane	s SB	C	n Bridge (m)	5.1	In Advance	(Y/N) No
Remarks	(Bridge	e #4) Ad	vance not	required	d. 5.29	6 at N	N; 5.298	at S.							
Required Load F	Posting	(t)		Single					Semi			41	Truc	k Train	59
Posted Loading (t) Single							24.0		Semi			34.0	Truc	k Train	40.0
Posted:	Lane	NB At Junction (<u>′/N)</u>	No		In Advance (Y/N)		No	At Bridge (Y/N) Yes			
Posted: Lane SB At Junction (tion (Y	′/N)	Yes		In Adv	ance	(Y/N)	No	At Br	idge (Y/N)	Yes
Remarks Rating dictated by BF 70514.															
Hazard Marker At Bridge (Y/N) Yes															
Remarks Hazard markers low a					a bride		km/hr		ΔO0	02-04	nlaqu	e missing			
Other Olgh Type	5			Sheomin	g bridg	Uí	tilities (I	oca	ted at)	52 04	plaqu	e missing.			
Utility Attachmer	nts TE	LEPHO	NE UTILI	TIES-PH	IONE I	INE									
Telephone								Ga	s		14m I	North of c/l.			
Power	3 wire	OH 9.0n	n North r/v	w. Powe	r line c	e crosses road			Municipal						
	80m E	ast of br	idge.					Pro	blem (\	Y/N)	No				
Others															
Remarks							Annroa	ch B	bood						
						Last	Now	Ext	olanatio	on of	Condi	tion			
Horizontal Alignr	nent					5	5	Cu	ves bot	th end	ds of bi	ridge, speed l	imit sı	uggested for 4	5 km/hr.
Vertical Alignme	nt					7	7	1							
Roadway Width	(m)		9.000												
Approach Bump						5	5	1							
Guardrail (Y/N)			Yes					Min	or bend	ds and	d dents	S			
Guardrail						5	5	Flu	sh splic	e to b	oridge a	at NW & SE.			
Length (m)			15.600					SW	, SE &	NW -	15.6m	; NE - 22.8m			
Current Standa	ard (Y/N	1)	No							za111.					
Termination Ty	/pe		Turn Do	own											
Drainage						7	N	Sno	ow cove	ered.					
Approach Road	l Gener	al Ratin	g			5	5								

Alberta Transportation

					Supers	tructure
Bridge Comp	onent			Last	Now	Explanation of Condition
(Primary Spa	n : TH, 2 Spa i	ns, Lengths(m	n): 41.1-8.5, A	-Ident	Numbe	er: A0092-04)
Special Feat	ures			1	1	
Special Featu	ire				X	
(Type :)				1	1	-
Special Featu	ire				X	
(Type :)				1		
Wearing Surfa	ace/Deck Top	Detail Ratings	; 			
	N (%)	1 (%)	2 (%)	3 (%)		Snow covered.
Last	0	0	0	0		
Now	30.0	0.0	0.0	0	.0	
Wearing Surf	ace/Deck Top			8	7	
(Material Ty	/pe : EKKI W(DOD)				-
(Plank Thic	kness(mm) : 6	60)				-
(Plank Widt	h(mm) : 200)			1		
Deck Rideabi	lity			8	8	
Deck Joints				X	X	
Temperature (deg. C) -10						
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm) Gap Location						
				1		
Curbs/Wheel	Guards			8	8	Notched around batter posts & verticals.
(Curb Type	: Standard)					
(Type : EKH	(I WOOD)					
(Thickness(mm) : 150)					_
(Width(mm)	: 250)			1		
Bridge Rail				6	6	Double layer.
(Type : GAI	VANIZED ST	FEEL FLEX BE	EAM)		1	102 x 102 HSS tube spacers. Bolted to truss & flexbeam, rotated at
Bridge Rail P	osts/Blocking			6	6	one location West side.
(Type : GAI STEEL)	VANIZED PO	OST STEEL;G	ALVANIZED	POST		
Bridge Rail/P	osts Coating			6	6	
(Type : GA	VANIZED)					
Sidewalk				X	X	
						·

					Superstructure								
Bridge Comp	onent			Last	Now	Explanation of Condition							
(Primary Spar	n : TH, 2 Spar	ns, Lengths(n	n): 41.1-8.5, A	-Ident	Numbe	er: A0092-04)							
Wide Load Da	amage (Y/N)	No				Minor defects. W portal small notch w/dents. (L4EL5W ck'd at L5W.							
High Load Da	mage (Y/N)	Yes			-	- L7EL8W corroded through at L8W - minor (photo). 07Jun2011) -							
Top Chord				7	7	Couldn't confirm. M1U4W has minor bend.							
Batter Posts				7	7	vert. leg (photo). 24May2012). L3U4W bent 40mm btwn m1 & U4,							
Sway Bracing	IS			4	4	minor. Flanges of floor beams heavily corroded. Pack rust at lower							
Diagonals				5	5	Repair at L6E gusset. Heavy pack rust btwn bottom chord gussets & members along bottom chord. Corrosion btwn angles. Bent in L1L2E L3L4W, L4L5W corrosion bulging.							
Verticals				7	7								
Portals				7	7	2 - 50x230; 4, 140x265; 4, 110x230; 5, 135x380. 8 bays x 15							
Connections				4	4	stringers. (For details see 2011 UT rpt. 07Jun2011). Paint largely							
Floor Beams				4	4								
Bottom Chord	1			4	4								
(No. of String	ers : 120)												
Stringer Detai	il Ratings												
	N (count)	1 (count)	2 (count)	3 (cou	unt)								
Last						_							
Now						_							
Stringers				5	5								
(Type : STE	EL)					_							
(Width(mm)	: 135)					_							
(Depth(mm)) : 380)												
(Spacing(m	m) : 700)												
Paint Condition	on			3	3	Heavy corrosion on top & bottom flange of floor beams at bearings.							
(Colour Des	scription :)					Heavy pack rust btwn bottom chord gussets & members.							
(Colour Code :)													
Touchup Required (Y/N) No													
Bearings				5	N	(50% pitting corrosion @ bearings. 24May2012) - Snow covered.							
Temperatur	e (deg. C)	-10											
(Expansion	Type : ROLLI	ER NEST BE	ARING)			P1							
(Fixed Type	: PINNED BE	EARING)				A1							
Functioning	(Y/N)	Yes											
Sub Deck/De	ck Underside			8	7								
(Material Ty	pe : TREATE	D TIMBER)											
(Plank Thicl	kness(mm) : 7	(5)											
(Plank Widt	h(mm) : 305)												
Defects (Pe	rcent Area)	0											
Span Alignm	ent Problems	5											
Vertical (Y/	N)	No											
Horizontal (Y/N)	No											
Superstructu	ire General R	ating		4	4								
- · · · · · · · · · · · · · · · · · · ·		- J											
					Supers	structure							
Bridge Comp	onent			Last	Now	Explanation of Condition							
(Secondary S	pan : TT)												
Special Featu	ures												
Special Featu	ire				X	-							
(Type:)													
Special Featu	ire				X								
(Ivpe:)													

					Supers	tructure
Bridge Comp	onent			Last	Now	Explanation of Condition
(Secondary S	pan : TT)					
Wearing Surfa	ace/Deck Top	Detail Ratings	5			
	N (%)	1 (%)	2 (%)	3 (%)		_
Last	0	0	0		0	Snow covered.
Now	30.0	0.0	0.0	0	0.0	
Wearing Surfa	ace/Deck Top	1		8	7	
(Material Ty	/pe : EKKI WO	DOD)				
(Plank Thic	kness(mm) : 6	60)				
(Plank Widt	h(mm) : 180)					
Deck Rideabi	lity			8	8	
				_		
Wheel Guard	s			6	7	Notched around posts.
(Curb Type	: Standard)					-
(Type : EKH	(I WOOD)					-
(Thickness((mm) : 150)					-
(Width(mm)	: 250)					
Bridge Rail				7	7	Double layer.
(Type : GAI	LVANIZED ST	FEEL FLEX B	EAM)			-
Bridge Rail P	osts			7	7	-
(Type : TRE	EATED TIMBE	ER;TREATED	TIMBER)			
Bridge Rail/P	osts Coating			6	6	Posts are treated with creosote.
(Type : GAI	LVANIZED)					
(No. of String	ers : 10)					2 - 200mm x 400mm stringers added (S4,S7). 8 - 200 x 510.
Stringer Detail Ratings						-
	N (count)	1 (count)	2 (count)	3 (cou	unt)	_
Last	0	0	0		0	_
Now	0	0	0		1	_
Stringers				5	3	Main stringers are notched at pier.
(Type : TRE	EATED TIMBE	ER)				S5 from W cracked.
(Width(mm)	: 200)					-
(Depth(mm)) : 510)					-
(Spacing(m	m) : 650)				_	
Sub Deck/De	ck Underside			8	7	-
(Material Ty	/pe : TREATE	D TIMBER)				-
(Plank Thic	kness(mm) : 1	00)				-
(Plank Widt	h(mm) : 300)					-
Defects (Pe	ercent Area)	0				
Span Alignm	ent Problem	s				
Vertical (Y/I	N)	No				-
Horizontal (Y/N)	No			1	
Superstructu	ure General R	Rating		5	3	
					Subst	
Bridge Com	onent			Last	Now	Explanation of Condition
Abutments				_401		
(Extended E	Backwall Piles	s (Y/N) : Y)				
(Extended E	Backwall Piles	Spacing(mm)	: 1500)			

					Subst	ructure						
Bridge Com	ponent			Last	Now	Explanation of Condition						
(Total Numbe	er of Caps/Co	rbels : 16:1)										
Bearing Seat	s/Caps/Corbe	ls Detail Ratin	gs			_						
	N (count)	1 (count)	2 (count)	3 (co	unt)	_						
Last	4	0	0		4	_						
Now	4	0	0		4	Caps & corbels cored 24May2012.						
Bearing Seat	s/Caps/Corbe	ls		3	3	A2 cap.						
(Type : TR	EATED TIMB	ER)				Estimated 4 caps buried at A1.						
(Depth(mm) : 300)					_						
(Width(mm) : 300)											
Backwalls/Br	eastwalls			5	5	_						
Greatest H	eight (m)	2.40			_							
Wingwalls				4	4	(SW wing pile is broken, sheathing is pushing in. 24May2011).						
(Total Numb	r of Dooring [SE wing pile broken, shearning missing.						
(Total Numbe	er of Bearing F	Plies : 12:5)										
T lies Detail R	N (count)	1 (count)	2(count)	3 (00	unt)	-						
Last	6			3 (00	3	-						
Now	6	0	0		3	-						
Piles	U	0	0	3	3	Piles cored 24May2012.						
1 1100						A2 has beginning rot in 3 centre piles.						
					V	Rating based on coring findings.						
Paint/Coating]			X	X							
Abutment Sta	ability			5	5							
Scour/Erosio	n			7	7							
Piers/Bents												
(Type : PIE	R-COLUMN)					H-piles & 256 x 62 steel cap installed under truss NE bearing, but						
(Total Numbe	er of Caps/Co	rbels : 19)				cap has no stiffeners.						
Bearing Seats/Caps/Corbels Detail Ratings												
	N (count)	1 (count)	2 (count)	3 (count)								
Last	0	0	0	7								
Now	0	0	0	7								
Bearing Seat	s/Caps/Corbe	ls		3	3	Not bearing on E P1,5,6.						
(Type : TRI	EATED TIMB	ER)				Rot in inside corbet at Wend & all corbels at E end.						
						Bulging in N bottom cap & in short cap under E corbels.						
(Total Numbe	er of Rearing	Piles · 20)				2 HP under F bearing						
Piles Detail R	atings					Pier shaft strengthened with concrete.						
	N (count)	1 (count)	2 (count)	3 (co	unt)	1						
Last	8	0	0		2	1						
Now	8	0	0		2	1						
Pier Shaft/Pil	es			3	3	Can not bearing at 2 pilos/blocks at approach span and						
Greatest H	eight (m)	3.50				Piles cored 24May2012.						
	5 ()					(Streamside piles not visible from inside pier box - cored through sheathing. 24May2012).						
						Rot in P1 but has H-pilé beside.						
						Beginning rot in other piles.						
Bracing/Strut	s/Sheathing			4	4	Various missing planks but not causing problems.						
Nose Plate				X	Х							
Paint/Coating	1			X	X							
(Colour De	scription :)					1						
	do :)					1						

Alberta Transportation

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		4	4	Rot in streamside piles, caps & corbels.
Scour		5	5	
Debris (Y/N)	Yes			Small to medium drift caught on fence attached to pier.
Substructure General Rating		3	3	
		S	structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				(Subdeck to water 4.9m. 2003/08/17)
(D/S Direction : N)				(S.B. to subdeck 5.4m).
Alignment			6	
Bank Stability		6	6	Minor slump u/s.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)			
Guidebank/Spurs		5	5	Spur at pier. 6 planks rotted & 1 pile rotted @ spur. Encased in concrete, ok.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

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			Maintenance Recommend	dations					
Inspector Recommendations	Year	Inspecto	r Comments	Department Cor	nments	Та	rget Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
RETROFIT BRIDGE RAIL									
SEAL CURBS									
PATCH DECK									
REPLACE STRIP DECK									
REPLACE SUB DECK									
RESET/ PAINT BEARINGS	2015	If not yet	done.						
REPAINT SUPERSTRUCTURE	2015	Treat rus	st jack issues while painting.						
STRAIGHTEN/REPLACE MEMBERS	2013	L1EL2W corroded	, L4EL5W, L7EL8W cracked or I through - replace, if not already done.						
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS	2013	Replace	all caps & corbels.						
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2013	Remove assess p done.	select streamside pier sheathing to vile and concrete condition, if not yet						
OTHER ACTION	2013	Install AS	32-4 truss ID plaque.						
OTHER ACTION	2013	Pile splic consider	e repair at A1 (4) and pier (4); placing cobra rods if pile rot is minor.						
OTHER ACTION	2013	Excavate piles.	e A1 & expose all remaining caps &						
OTHER ACTION	2013	Assess for repairs d expectar	or bridge replacement rather than lue to overall condition and limited life hcy, if not yet done.						
OTHER ACTION	2013	Set HMs	to std.						
OTHER ACTION	2013	Band cra other stri	tcked stringers and notched ends of ingers.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	38.9/33	3.3	Sufficiency Rating (Last/Now) /	42.0/37.6	Est. Repl. Yr	2020	Maint. Req	d. (Y/N)	Yes
Special Comments for Next Inspection	j report fo e minor - red.	or further de monitor.	etails. 24May2012).	Department Comments					
Maintenance Reviewed By				Date		Estin	nated Total	0	

Proposed Long-Term Strategy	2006.12.29 Bridge is getting near end of useful life. \	With normal maintenance should b	iee good until 2025.
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	
Next Inspection Date	07-Dec-2014	Previous Inspection Date	24-May-2012
Inspection Cycle (Default) (months)	21		
Comment			

		Maintenance Recommend	lations			
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
REPLACE STRIP DECK						
REPLACE SUB DECK						
RESET/ PAINT BEARINGS	2015	If not yet done.	Defer until rehab/replacement	2014		
REPAINT SUPERSTRUCTURE	2015	Treat rust jack issues while painting.	Defer until rehab/replacement	2014		
STRAIGHTEN/REPLACE MEMBERS	2013	L1EL2W, L4EL5W, L7EL8W cracked or corroded through - replace, if not already done.	Programmed if replacement not feasible in 2014	2013		
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS	2013	Replace all caps & corbels.	Programmed if replacement not feasible in 2014	2013		
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Remove select streamside pier sheathing to assess pile and concrete condition, if not yet done.	Programmed if replacement not feasible in 2014	2013		
OTHER ACTION	2013	Install A92-4 truss ID plaque.	Defer until rehab/replacement	2014		
OTHER ACTION	2013	Pile splice repair at A1 (4) and pier (4); consider placing cobra rods if pile rot is minor.	Programmed if replacement not feasible in 2014	2013		
OTHER ACTION	2013	Excavate A1 & expose all remaining caps & piles.	Programmed if replacement not feasible in 2014	2013		
OTHER ACTION	2013	Assess for bridge replacement rather than repairs due to overall condition and limited life expectancy, if not yet done.	Defer until rehab/replacement	2014		
OTHER ACTION	2013	Set HMs to std.	Programmed if replacement not feasible in 2014	2013		
OTHER ACTION	2013	Band cracked stringers and notched ends of other stringers.	Programmed if replacement not feasible in 2014	2013		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

	Maintenance Recommendations													
OTHER ACTION														
Structural Cond (%)	ition Rating (Last/N	low)	38.9/33.3		Sufficiency Rating (Last/ (%)	'Now)	42.0/37.6	E	st. Repl. Yr	2020	Maint. F	Reqd.	. (Y/N)	Yes
Special Comments for Next Inspection	(Refer to 2012 Lvl 2 Bends on bottom c Pier planks can be	2 coring hord are monitor	report for fu minor - mo ed.	urther o onitor.	details. 24May2012).		Department Comments	Repla DA	acement need y	ear cha	nged from 20	16 to	2014 in	PMA.
Maintenance Rev	riewed By	Darron	Ahlstedt				Date	30-Ap	or-2013		Estimated To	tal	0	
Proposed Long-T	2006.1	2.29 Bridge	e is gett	ting near end of useful life.	With norr	nal maintenance	shoul	d bee good unt	il 2025.					
On 3-Year Progra	am (Y/N)													
Proposed Action														
Previous Inspecto	or's Name	Garry F	Roberts			Previous	s Assistant's Nan	ne						
Next Inspection D	Date	07-Dec	-2014			Previous	s Inspection Date)	24-May-2012					
Inspection Cycle	(Default) (months)	21												
Comment														