							Bridge	Ins	pecti	on							
Bridge File Num	ber	74342	-1 Bridge				J	Form Typ					TH TT				
Year Built/Year		1926/1	919					Lot No.					1				
Supstr								— Ir	Inspector Name			Owen Salava					
Bridge or Town I	Name							— Ir	nspec	tor Cl	ass		BR CLS A				
Located Over			H SASKAT RCRS-ST	CHEWA	N RIV	ER, 6	5,	А	Assistant Name								
Located On		734:18	C1 16.198							ant CI							
Water Body Cl./	Year								•	tion D			03-Dec-2010				
Navigabil. Cl./Ye	ar									ntry E			Marcia Chav				
Legal Land Loca	ition	SE SE	C 34 TWP	39 RGE	15 W5	5M				ntry [			28-Feb-2011				
Longitude, Latitu	ide	-116:0	4:33, 52:23	:49						ver Na			John O'Brier				
Road Authority		Alberta	a Transporta	ation (Al	T)					v Date	-		22-Feb-2011				
Contract Main. A	rea	CMA1	8						•				Chris Black				
Clear Roadway/	Skew	4.9 / 0	deg.								w Dat	е	01-Mar-2011				
AADT/Year		90 / 20	009 (A)					_ F	ollow	-Up B	By						
Road Classificat	ion	RLU-2	08G-90														
Detour Length (k	<u> </u>	190															
Allowable Load (	t): Sin	ngle H	34 TRINGER		Semi		S 61 4L5			1	Γrain	CS L4L	3 65 <sub>-</sub> 5		> On Critic	al Spar	าร
Design Loading:		Н	S20												> Primary	Span	
						Р	osting	Info	ormat	ion							
Required Vert. C			_ · · /														
Posted Vertical (				Yes							I			I			
Posted: Lane	NB		Bridge (m)		In Adv	ance	(Y/N)	No	)   L	ane	SB	0	n Bridge (m)	4.7	In Advance	(Y/N)	Yes
Remarks			33m both er														
Required Load F		(t)		Single					Se	emi				Trucl	k Train		
Posted Loading	(t)			Single						Semi			40.0				
Posted:	Lane	NB		At June			No				nce (\		No		At Bridge (Y/N) No		
Posted:	Lane	SB		At Juno	•		Yes				nce (\	//N)	No	At Bridge (Y/N) No			
Remarks			ction sign or	n SB 734	4 @ jct	t Hwy	/ 11, no	ot for	r this	bridge	9.						
Hazard Marker A	At Brid	ge (Y/N															
Remarks						t functional.  I, Steep Grades, Use Lower Gear, Curve											
Other Sign Type	S		Narrow	Briage s	symbol	Utilities (Located at)											
Utility Attachmer	oto					U	unues	(LO	Gatteo	at)							
Telephone	113							G	Gas								
Power									Municipal								
Others									Problem (Y/N) No								
Remarks									. 5510	(1/	· •/     '						
							Appro	oach	n Roa	d							
						Last					of C	ondi	ion				
Horizontal Alignr	ment					4	4					de do	own to wide v	alley b	out are within	1.0 km	zone
Vertical Alignme	nt					4	4	а	it eac	h end	•						
Roadway Width (m) 7.000																	
Approach Bump				5	5	$\perp$											
Guardrail (Y/N) No																	
Guardrail	Guardrail			Х	X												
Length (m)																	
Current Standa		N)	No														
Termination Ty	/ре		None														
Drainage						7	7										
Approach Road	l Gene	eral Rat	ing			4	4										

				,	Supers	tructure		
Bridge Compone	ent			Last	Explanation of Condition			
(Primary Span : T	TH, 4 Span	ıs, Lengths(n	n): 6.1-61-61-6	6.1, A-I	umber: A0075-15;A0105-04)			
Special Features	5							
Special Feature				8	8	Dywidag end to end on both bottom chords - photo. A bracket is		
(Type : EXT LO	NGIT POS	ST TENS)				broken along S2 (L6L7W).		
Special Feature					X			
(Type:)								
Wearing Surface/	Deck Top	Detail Ratings	3					
N (	%)	1 (%)	2 (%)	3 (%)				
Last	0	0	0		0	Snow covered.		
Now	100.0	0.0	0.0	0	0.0			
Wearing Surface/	Deck Top			7	N			
(Material Type :	UNTREA	TED TIMBER	.)					
(Plank Thicknes	ss(mm) : <b>7</b>	5)						
(Plank Width(m	m): <b>300</b> )							
Deck Rideability					7			
Deck Joints					Х			
Temperature (d	leg. C)	-10						
(Expansion Typ	e:)							
(Fixed Type : )								
Gap Size (mm)		Gap L	ocation.					
Curbs/Wheel Gua	ards			4	4	Minor isolated scrapes / chips.		
(Curb Type : St	andard)					Wheelguards have been pushed outwards slightly. 4 wheelguard blocking split / rotated.		
(Type : TREAT	ED TIMBE	ER)				150 x 300 x 450 blocking.		
(Thickness(mm	) : <b>100</b> )							
(Width(mm) : 30	00)				_			
Bridge Rail				3	3	Triple layer. Truss rail not continuous with TT spans - typ both ends		
(Type : GALVA	NIZED ST	EEL FLEX BI	EAM;FLEX BE	EAM)		& both sides - photo.		
Bridge Rail Posts				3	3	Some timber blocks are rotten. Steel end posts missing at S2 (L0W, L0E). Nearby posts.		
(Type : TREAT	ED TIMBE	R)						
Bridge Rail/Posts	Coating			6	6	Galvanized rail only.		
(Type : GALVA	NIZED)							

74342 -1 Bridge

							structure					
Bridge Component						Explanation of Condition						
(Primary Spa	n : <b>TH, 4 Spa</b>	ns, Leng	ths(ı	n): 6.1-61-61-	6.1, A-I	dent I	Number: A0075-15;A0105-04)					
Wide Load D	amage (Y/N)	Y	es									
High Load Damage (Y/N) Yes							Rivets missing at top splice plates.					
Top Chord					4	4	Sparce minor nicks. All wind bracing have past damage & repairs have left minor distortions.					
Batter Posts					7	7	Minor distortion on wind bracing.					
Sway Bracing	gs				4	4	S2(m4m5W) has cracked in 4. S2(U3L4W), S3(U2L3W, m2L4W) have bends & bows.					
Diagonals					3	3	S3(U2L2W, U5L5E, U8L8E) have bends.					
Verticals					4	4	S3(U1U1, Ú9U9) háve HLĎ. ─S3(U1L1W) has a scrape with 2 slivers.					
Portals					4	4	Minor nicks along bottom chord.					
Connections					4	4	Various open holes & headless rivets that need bolts.  Lattice strapping removed to accomodate rail/blocking.					
Floor Beams					7	7						
Bottom Chord	d				4	4	13/bay at S2, 15/bay at S3 = 130+150=280.					
(No. of String	ers : <b>130;150</b>	)										
Stringer Deta	il Ratings											
	N (count)	1 (coun	t)	2 (count)	3 (co	unt)						
Last												
Now												
Stringers					7	7						
(Type : STE	EEL)											
(Width(mm	) : 125)											
(Depth(mm	) : <b>300</b> )											
(Spacing(mm) : <b>360</b> )												
Paint Condition						5	Minor superficial rusting at bearings.					
(Colour Description : )							Yellow.					
(Colour Code : )												
Touchup R	equired (Y/N)	N	0									
Bearings					4	4	Expansion bearings twisted slightly - photo.					
Temperatu	re (deg. C)	-1	0				Pier 1 & 3. Pier 2.					
(Expansion	Type : ROLL	ER NES	ГВЕ	ARING)			The SE bearing is overextended 25mm - photo					
(Fixed Type	e : PINNED B	EARING					(Notch cut @ anchor pins still overextended - photo. 29Jun2010).					
Functioning	(Y/N)	Y	es									
	ck Underside				5	5	Some ends with vert. split/cracked.					
	ype : <b>TREATE</b>		ER)				·					
	kness(mm) : 1											
	th(mm) : <b>300</b> )	· ·										
	ercent Area)	2										
	nent Problem											
Vertical (Y/		N	0									
Horizontal (Y/N) No												
Superstructure General Rating			3	3								
ouperstruct.	arc ocherari	tating				Ŭ						
						Super	structure					
Bridge Com	ponent				Last	Now	Explanation of Condition					
(Secondary S	Span : <b>TT</b> )											
Special Feat												
Special Feat	ure					X						
(Type:)												
Special Feat	ıre					X						
(Type : )												

					Supers	structure					
Bridge Com	nonent			Last		Explanation of Condition					
(Secondary S				Last	11017						
	face/Deck Top	Detail Rating	s								
vvcaring our	N (%)	1 (%)	2 (%)	3 (%)	<u> </u>						
Last	50	0	0	0 (70)	0						
Now	100.0	0.0	0.0		0.0	Snow covered.					
	face/Deck Top		0.0	4	N	(Well worn. 29Jun2010).					
	ype : UNTREA		<u> </u>		- '	(VIOII WOTTI: 2004112010).					
	ckness(mm) : 1		•/								
	th(mm) : <b>300</b> )										
Deck Rideab				5	5						
Wheel Guard	ds			5	N	(Plow scrapes. 29Jun2010). Snow covered.					
	e : Standard)					( · · · · · · · · · · · · · · · · · · ·					
	EATED TIMBE	ER)									
	(mm) : <b>100</b> )										
(Width(mm	· · · · · · · · · · · · · · · · · · ·										
Bridge Rail	.,			3	3	Single layer not continuous with main span rail over piers 1 & 3,					
	I VANIZED ST	TEEL ELEY P	FAM·FI FY P		J	typical - photo. Rails are not aligned either.					
(Type : GALVANIZED STEEL FLEX BEAM;FLEX BEAM) Bridge Rail Posts 6											
(Type : TREATED TIMBER)					6						
Bridge Rail/Posts Coating					6	Rail only.					
Bridge Rail/Posts Coating 6 (Type : GALVANIZED)											
(No. of Stringers : 28;28)											
Stringer Detail Ratings  N (count) 1 (count) 2 (count) 3 (count)											
Last	N (count)	1 (count)	2 (count)	3 (60	0						
Now	0	0	0		0	S4 North exterior stringer split short section.					
Stringers		0	0	4	4	-					
	EATED TIMBE	FR)									
(Width(mm		<b>-</b> 11)									
(Depth(mm											
(Spacing(n	· · · · · · · · · · · · · · · · · · ·										
	eck Underside			5	5	Some ends vertical split / crack.					
	ype : TREATE	D TIMBER									
	ckness(mm) : 1										
	th(mm) : <b>300</b> )										
	ercent Area)	2									
	nent Problems										
Vertical (Y/		No									
Horizontal		No									
	ure General R			4	4						
					Subst	ructure					
Bridge Com	ponent			Last		Explanation of Condition					
Abutments	p 311 <b>3</b> 111										
	Backwall Piles	s (Y/N) : <b>N</b> )									
	Backwall Piles	. , ,	):)								
LAtoridod	_ uon wan 1 1100	- Jpaomig(mm)	, . ,								

					Subst	ructure					
Bridge Comp	onent			Last	Now	Explanation of Condition					
(Total Number of Caps/Corbels : 1:1)				Luot	11011	Explanation of condition					
	s/Caps/Corbel		as								
	N (count)	1 (count)	2 (count)	3 (co	unt)						
Last	0	0	0		0						
Now	0	0	0		0						
Bearing Seats	s/Caps/Corbe	ls		7	7						
	EATED TIMBE										
(Depth(mm)											
(Width(mm)											
Backwalls/Bre				6	6						
Greatest He	eight (m)	1.75									
Wingwalls	<b>5</b> ( )			6	6						
	er of Bearing F	Piles : <b>5:5</b> )									
Piles Detail R											
	N (count)	1 (count)	2 (count)	3 (co							
Last	0	0	0		0	2nd pile from East @ South abutment is split.					
Now	0	0	0		0	_					
Piles				4	4						
Paint/Coating				X	X						
Abutment Stability					5						
Scour/Erosion					7						
Piers/Bents											
(Type : PIE	R-SOLID)					TT end piers with steel corbels.					
	er of Caps/Cor	hels · <b>7·1·7</b> )				TT pier caps with steel corbels, main.					
Bearing Seats	·	· · · · · · · · · · · · · · · · · · ·	as			1 row = 15 piles / pier (1 & 3), including nose pile. Pier 1 & 3 buried in ground.					
g can	N (count)	1 (count)	2 (count)	3 (co	unt)	The state of the s					
Last	0	0	0		0						
Now	0	0	0		0						
Bearing Seats	s/Caps/Corbe	ls		7 4							
(Type : COI	NCRETE)			·							
(Total Numbe	er of Bearing F	Piles : <b>11:0:11</b>	)								
Piles Detail R											
	N (count)	1 (count)	2 (count)	3 (co	unt)						
Last	0	0	0		0						
Now	0	0	0		0						
Pier Shaft/Pile				5	5						
Greatest He		4.10									
Bracing/Struts	s/Sheathing			7	7						
Nose Plate					6						
Paint/Coating					Х						
(Colour Description : )											
(Colour Code : )											
Pier Stability					5						
Scour				7	7						
Debris (Y/N)		No									

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	4	
			1	n Urani
				re Usage
Channel		Last	Now	Explanation of Condition
(U/S Direction : W)				Meandering/braided river.
(D/S Direction : E)			1	
Alignment	Alignment			
Bank Stability			6	
HWM (m below Top of Curb)				HWM not visible. (Water to deck 5.74m).
Drift (Y/N)	No			
Slope Protection		7	7	Halfway up both slopes.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening			7	
/Figh Commonsties Managers 4	NONE)			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)		1	
Channel General Rating		6	6	

74342 -1 Bridge

					Maintenance Reco	ommend	ations					
Inspector Recom	mendations	\	Year	Inspecto	r Comments		Department Co	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL			2011	Make rail continuous & double-up flexbeam of approach spans, new expansion sleeve/detail replace rotten blocks, add steel end posts at S2 L0 panel points.								
RETROFIT BRID	GE RAIL											
SEAL CURBS		2	2011	Replace	4 wheelguard blocking & 2 sec	ctions.						
PATCH DECK												
REPLACE STRIF	DECK											
REPLACE SUB D	DECK											
RESET/ PAINT B	EARINGS											
REPAINT SUPER	RSTRUCTURE											
STRAIGHTEN/RI	EPLACE MEMBERS	2	2011	Heat stra U2L3W, U8L8E).	aighten S2(U3L4W), S3(U2L2V m2L4W, U1U1, U9U9, U5L5E	N, &						
WASHING												
SHOTCRETE RE	PAIRS											
CORE TIMBER C	APS/CORBELS											
REPAIR/REPLAC	E TIMBER CAPS											
REPAIR ABUTMI	ENT SCOUR/EROSI	ON										
PLACE ADDITIO	NAL RIP RAP											
REMOVE DRIFT	ACCUMULATION											
OTHER ACTION	OTHER ACTION		2011	Band split A1 pile.								
OTHER ACTION		2	2011	Replace dywidag bracket at S2 L6L7W.								
OTHER ACTION		2	2011	Install approach rails to meet standards.								
OTHER ACTION		2	2011	Add bolts	s, see 2010 UT report.							
OTHER ACTION		2	2011	Grind sli	vers smooth at S3(U1L1W).							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Cond (%)	ition Rating (Last/No	ow) 3	38.9/38.	9	Sufficiency Rating (Last/No (%)	w) 3	33.7/33.7	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	UT inspection 2010 from June 2010 UT	. Monitor included	cracks as addi	at S2 m4r tional atta	n5W at m4 & U2L3E at U2. Ph chment.	notos	Department Comments			·		
Maintenance Rev	Maintenance Reviewed By						Date		E	stimated Total	0	
Proposed Long-T	erm Strategy	With nor	rmal ma	intenance	bridge should be good until 20	034. RS						
On 3-Year Progra	am (V/N)											

Alberta Transportation

Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	03-Mar-2014	Previous Inspection Date	29-Jun-2010
Inspection Cycle (Default) (months)	39		
Comment			