Bridge Inspection																	
Bridge File Number 75187 -1 Bridge									m Type			TH					
Year Built/Year			1/1960						No.			3					
Supstr								Ins	pector N	lame		Owen Salava					
Bridge or Town Name EMPRESS											BR CLS A						
Located Over SOUTH SASKATCHEWAN RIV WATERCRS-ST					ER, 2	,		Assistant Name			7=5::						
Located On			8 C1 47.934					Ass	Assistant Class								
Water Body Cl./	Year							Ins	pection	Date		18-Jul-2012					
Navigabil. Cl./Ye								Da	ta Entry	Ву		Marcia Chavez					
Legal Land Loca		NW	SEC 27 TWF	20 RG	E 1 W4	1M		Da	ta Entry	Date		02-Aug-2012					
Longitude, Latitu		-110	0:04:13, 50:43	:51				Re	Reviewer Name			John O'Brien					
Road Authority			erta Transport		IT)			Re	view Da	te		31-Jul-2012					
Contract Main. A	rea	CMA						De	pt. Revie	ewer N	Name	Andrew Smi	kles				
Clear Roadway/s	Skew	9.1 /	29 deg. (RH	F)					pt. Revie		te	07-Aug-2012	2				
AADT/Year			/ 2011 (A)	,				Fol	low-Up	Ву							
Road Classificat	ion	RAL	J-210-110														
Detour Length (k	m)	100															
Allowable Load (		igle	H 27 STRINGER		Sem							3 74 RINGER		> On Critic	ical Spans Member		
Design Loading:			HS20											> Primary	Span		
						Р	osting	Infor	nation								
Required Vert. C	learar	nce P	osting (m)														
Posted Vertical 0	Cleara			Yes	ı												
	NB		On Bridge (m)		In Adv	ance	(Y/N)	Yes	Lane	Lane SB C		n Bridge (m) 5.4		In Advance (Y/N)		Yes	
Remarks	AB2 -	5.61	0, AB1 - 5.62	3.													
Required Load F	osting	(t)		Single			28		Semi				Truc	k Train			
Posted Loading	(t)			Single					Semi			Truck Train		k Train			
Posted:	Lane		NB .	At Junction (Y		Y/N)	N) No		In Advance (Y/N)		Y/N)	No	At Bridge (Y/N)		No		
Posted:	Lane		SB	At Jun	ction (	Y/N)	No		In Advance (Y/N)			No At Bridge (Y/N) No					
Remarks	Not re	quire	ed.														
Hazard Marker A	At Brid	ge (Y	/N) Yes														
Remarks				at std l													
Other Sign Type	S		75km s	ign, No	Passir												
Liche Are I						U	tilities	(Loca	ted at)								
Utility Attachmer	าเร							0-									
Telephone									Municipal Municipal								
Power Others										//NI)	) No						
Remarks								Problem (Y/N) No									
Remarks							Appro	ach E	oad.								
						Last			Explanation of Condition								
Horizontal Alignr	nent					6	6		Curves both ends, 75 km/hr curve sign. Hills both sides.								
Vertical Alignme						6	6						_				
Roadway Width			10.200														
Approach Bump						7	7										
Guardrail (Y/N)						Imp	act dan	nage a	at SW;	; 11 damaged	posts	 S.					
Guardrail			5	4													
Length (m) 60.000																	
Current Standard (Y/N) Yes																	
Termination Ty	/ре		Turn D	own													
Drainage						4	4	He	adslope	gullie	s. Ero	sion gully at I	NE co	rner (photo).			
Approach Road General Rating				6	6												

					Supers	structure
Bridge Com	ponent					Explanation of Condition
		ns, Lengths(	m): 76.2-76.2-7			lent Number: A0342-01;A0342-02;A0342-03;A0342-04)
Special Feat	ures					
Special Featu	ıre				X	
(Type:)						
Special Featu	ıre				X	
(Type:)						
Wearing Surf	ace/Deck Top	Detail Rating	S			
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0		0	
Now	0.0	0.0	0.0	C	0.0	
Wearing Surf	ace/Deck Top			6	6	(Numerous patches. 30/July/2008). Chipseal coat on FRSF o/l. 2009
(Material Ty	ype : CONCRI	ETE - CONVE	NTIONAL CH	IP SEA	\L	L2 deck insepction found 23m2 debonded o/l, primarily along the c/l cold jnt.
(Plank Thic	kness(mm): 5	50)				
(Plank Widt	th(mm) : )					
Deck Rideab	ility			7	7	
Deck Joints				4	4	New rubber troughs installed @ P1 & P3. 2009 L2 deck inspection
Temperatui	re (deg. C)	27				indicated water leaks past plumbing at S pier jnt. Both abut jnts leak.
(Expansion TRANSFLE	Type : <b>FINGE</b> E <b>X, ETC)</b> )	ER PLATES;	SLAND (WABO	D-MAU	ER,	
(Fixed Type	: COMPRES	SION SEAL	ACME SEALS	<b>()</b> )		
Gap Size (r	mm)	Gap	Location			
24		Pier	1			
25		Pier	3			
Curbs/Wheel	Guards			6	6	Minor cracking in curb face.
	: Standard)					
(Type : <b>CO</b>	· · · · · · · · · · · · · · · · · · ·					
	ht(mm) : <b>300</b> )					
(Width(mm)	) : 800)					
Bridge Rail				6	6	
	EEL BOX BEA	AM TYPE 1)				5% of anchor nuts have insufficient
Bridge Rail P				4	4	thread.
	ST STEEL;PC	OST STEEL)				50/ 007700:00
Bridge Rail/P				4	4	5% corrosion.
(Type : PAI	NT)					
Sidewalk				X	X	

					Supers	structure							
Bridge Compo	nent					Explanation of Condition							
		ns, Lengths(ı	n): 76.2-76.2-			lent Number: A0342-01;A0342-02;A0342-03;A0342-04)							
Wide Load Dam	nage (Y/N)	No				Minor scrapes @ most portals.							
High Load Dam		Yes											
Top Chord				7	7	(U1L0E has a 50mm crack @ U1, span 2 and 15mm crack at U1							
Batter Posts				4	4	hidden when viewed from deck. Minor cracks on several gussets, hidden from deck view. 03/01/07)							
Sway Bracings				5	5	Inducti nom deck view. 03/01/01)							
Diagonals				7	7								
Verticals				7	7								
Portals				6	6								
Connections				6	6	Connections starting to get buildup of rust between plates @ bottom							
Floor Beams				6	6	chord @ tie plates.							
Bottom Chord				7	7								
(No. of Stringers	s : <b>432;432</b> :	(432;432)											
Stringer Detail F		, ,											
_	I (count)	1 (count)	2 (count)	3 (cou	ınt)								
Last													
Now						Ext stringers have loss of section on top of flange. Rust accumulation							
Stringers				4	4	has bowed stringers downward. Spacing between stringers 2-3, 7-8, spacing is 1020mm. Snow slot has been concreted shut but still							
(Type : STEE	L)					leaks and rusting plates.							
(Width(mm):	180)												
(Depth(mm):	400)												
(Spacing(mm)	) : 1475)												
Paint Condition				4	4	Corrosion on stringer line below snow slots, bearings and end floor							
(Colour Descr	ription : )					beams. Light green.							
(Colour Code	:)												
Touchup Req	uired (Y/N)	Yes											
Bearings				5	5	Expansion bearings are dragging the skirt plates.							
Temperature	(deg. C)	27											
(Expansion Ty	ype : <b>ROLL</b>	ER NEST BE	ARING)										
(Fixed Type:	DISC & DO	ME BEARING	<b>3</b> )										
Functioning (	Y/N)	Yes											
Sub Deck/Deck	Underside			5	5	Span 1 SE corner has minor spalls.							
(Material Type	e : CONCRI	ETE)											
(Plank Thickn	iess(mm) : 1	150)											
(Plank Width(	(mm) : )												
Defects (Perc		1											
Span Alignmer	nt Problems	s											
Vertical (Y/N)		No											
Horizontal (Y/N) No													
Superstructure		ating		4	4	Due to crack comments & stringer corrosion.							
		•				-							
						ructure							
Bridge Compo	nent			Last	Now	Explanation of Condition							
Abutments	alau-II D'I	(X/NI) - BI)											
(Extended Ba			\ - \										
(Extended Ba	ickwall Piles	Spacing(mm	):)										

					Subst	ructure						
Bridge Com	ponent			Last	Now	Explanation of Condition						
	er of Caps/Cor	bels : <b>1:1</b> )				Abut seats are wet from leaking ints but no scaling. Abuts stained, n						
	s/Caps/Corbe		ngs			deterioration of abuts from leaking deck jnts - no action.						
	N (count)	1 (count)	2 (count)	3 (cou	unt)							
Last	0	0	0		0							
Now	0	0	0		0							
Bearing Seat	s/Caps/Corbe	ls		7	7							
(Type : CO	·											
(Depth(mm	· · · · · · · · · · · · · · · · · · ·											
(Width(mm	):)											
Backwalls/Br	eastwalls			6	6							
Greatest H	eight (m)	2.50										
Wingwalls				7	7							
(Total Numbe	er of Bearing F	Piles : 0:0)				Unknown.						
Piles Detail R		,										
	N (count)	1 (count)	2 (count)	3 (cou	unt)							
Last	100	0	0		0							
Now	100	0	0		0							
Piles	100 0				N							
Paint/Coating				Х	Х							
Abutment Sta	ability			8	8							
<u> </u>						Missan assemble in halo allows OID assemble assemble						
Scour/Erosio	n ———			6	6	Minor growth in hslp above CIP concrete apron. Erosion gully SE corner of hslp.						
Piers/Bents												
(Type : PIE	•					Staining from road spray.						
	er of Caps/Cor											
Bearing Seat	s/Caps/Corbe		_	0 (	4)	_						
1 1	N (count)	1 (count)	2 (count)	3 (cou		_						
Last	0	0	0		0	_						
Now	0	0	0		0	_						
	s/Caps/Corbe	IS		7	7	-						
(Type : CO		Oiloo · O·O·O				Unknown.						
	er of Bearing F	nes : <b>u:u:u</b> )				OTKIOWII.						
Piles Detail R	N (count)	1 (count)	2 (count)	3 (cou	ınt\	1						
Last	100	0	0		unii) 0							
Now	100	0	0		0							
Pier Shaft/Pil		U	J	7	7	-						
Greatest H		14.20		1								
Bracing/Strut		14.20		X	Х							
Nose Plate				7	X							
Paint/Coating	1			4	4	Nose plates 90% corrosion.						
(Colour De						1						
(Colour Co												
Pier Stability				8	8							
Scour				N	N	Not visible.						
Debris (Y/N)		No										
,												

Substructure											
Bridge Component		Last	Now	Explanation of Condition							
Substructure General Rating		7	7								
		5	re Usage								
		Last		Explanation of Condition							
Channel											
(U/S Direction : W)											
(D/S Direction : E)											
Alignment		8	8								
Bank Stability			7								
HWM (m below Top of Curb)				HWM not visible.							
Drift (Y/N)	No		_								
Slope Protection		7	7	CIP concrete apron.							
(Type : CONCRETE; CONCRE	ETE)		_								
Guidebank/Spurs		X	X								
Adequacy of Opening		8	8								
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		7	7								

Maintenance Recommendations													
Inspector Recommendations		Year Inspector Comments Department Comments								Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS													
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPLACE STRIP DECK													
REPLACE SUB DECK													
RESET/ PAINT BEARINGS													
REPAINT SUPERSTRUCTURE													
STRAIGHTEN/REPLACE MEMBERS													
WASHING													
SHOTCRETE REPAIRS													
CORE TIMBER CAPS/CORBELS													
REPAIR/REPLACE TIMBER CAPS													
REPAIR ABUTMENT SCOUR/EROSI	ON :	2012	AT NE c	orner & hslp, 5m3	pitrun.								
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
OTHER ACTION		2012 Replace 11 guardrail posts at SW.											
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/N (%)	ow)	61.1/61.	.1	Sufficiency Ratir (%)	ufficiency Rating (Last/Now) %)			Est. Repl. Yr 2044		2044	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By		Date								Estimated Total 0			
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Jason S	Saly			Prev	/ious A	ssistant's Name						
Next Inspection Date	18-Apr-				Prev	/ious Ir	nspection Date		30-Mar-2011				
Inspection Cycle (Default) (months)	21												
Comment													