Bridge Inspection																	
Bridge File Number 08132 -1 Bridge								Form Type				SG					
Year Built/Year 1950/1983								Lot N	No.		3		í				
Supstr								Inspector Name				Jason Saly					
Bridge or Town Name EMPRESS  Located Over RED DEER RIVER. 3. WATERCH						PDC CT			Inspector Class			BR CLS A					
Located Over RED DEER RIVER, 3, WATERCI Located On 899:01 C1 1.030						J-J	1	Assistant Name									
Water Body Cl./	Year	000.01	01 1.000				Assistant Class										
Navigabil. Cl./Year								<u> </u>	ection			30-Mar-2011					
Legal Land Location NW SEC 13 TWP 23 RGE 1 W4N					W4M				Entry			Marcia Chavez					
Longitude, Latitude -110:01:42, 50:57:50							Data Entry Date					19-Apr-2011					
Road Authority Alberta Transportation (AIT)								Reviewer Name Review Date				Dave Lam					
Contract Main. A	Area	CMA22									amo.	10-Apr-2011 Chris Black					
Clear Roadway/	Skew	7.5 /											₹				
AADT/Year		230 / 20	11 (A)						Dept. Review Date Follow-Up By			14-Mar-2013					
Road Classificat	ion	RCU-20	8-110					_	I GIIOW-OP By								
Detour Length (	km)	24															
Allowable Load	owable Load (t): Single CS1 28 Semi			Semi	CS	S2 49			Train	CS	3 62		> On Critical Spans>Critical Member				
Design Loading:		MS	230			Do	atina l						> Primary Span				
Required Load F	Postino	ı (t)		Single		FC	sung II	Semi				Truck Train					
Required Load Posting (t)  Posted Loading (t)				Single				_	Semi				Truck Train				
Posted:	Lane				on (Y/N	//N) No			In Advance (Y/N)		No			No			
Posted:	Lane				•		No	In Advance (Y/N)		No	0 \ /		No				
Remarks Not required.					, ,								<u> </u>	'			
Hazard Marker At Bridge (Y/N) Yes																	
Remarks																	
Other Sign Type	Other Sign Types																
						Uti	ilities (L	Locate	ed at)								
Utility Attachmer	nts T	ELEPHO	NE UTILI	TIES-PHO	NE LIN	NE_											
Telephone		curb conduit.															
Power		20m East							icipal								
Others	Fibre optics @ East R/W. Problem (Y/N) No																
Remarks							A 10 10 11 0 0	ah D									
					1:	ast	Now		ch Road Explanation of Condition								
Horizontal Alignment						6	6	Curves both ends.									
Vertical Alignment					6	6	Blind curve to South.										
Roadway Width (m) 9.200																	
Approach Bump				5	5												
Guardrail (Y/N) Yes																	
Guardrail				7	6												
Length (m) 30.500						,	ا - اسما										
Current Standard (Y/N) No							Not thrie beam transition.										
Termination Ty	Termination Type TURN DOWN ENDS			DS													
Drainage					7	5	Minor erosion @ South end both ditches.										
Approach Road General Rating					6	6											

Superstructure	
Primary Span : WG, 4 Spans, Lengths(m): 53.9-53.9-53.9, A-Ident Number: A0907-01)   Special Feature	
Special Feature   X   (Type : )   Special Feature   X   (Mainly single rock spalls (soft agg.) on wearing minor spalls. Special Feature   Specia	
Special Feature	
Courb Type :   Special Feature	
Special Feature	
Wearing Surface/Deck Top Detail Ratings	
Wearing Surface/Deck Top Detail Ratings	
N (%)	
Last	
Now	
Wearing Surface (Material Type : CONVENTIONAL CHIP SEAL COAT) (Thickness(mm) :)  Deck Top  N N N  Deck Rideability  8 8 (Bird baths E side-photo #1. 01/08/08).  NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES)) (Fixed Type :)  Gap Size (mm)  Gap Location 94  S Abut  111  N Abut  Deck Drainage  Deck Drains Clogged (Y/N) No  Curbs/Median (Curb Type : Standard)  (Mainly single rock spalls (soft agg.) on wearing minor spalls. S span 25% light scaling. 30Jul200  (Bird baths E side-photo #1. 01/08/08).  NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  Vertical cracks every 500-1000mm.  Minor scrapes @ base of curb, exposed water st of bridge for 2.0m @ S3.	
(Material Type : CONVENTIONAL CHIP SEAL COAT) (Thickness(mm) :)  Deck Top  N N N  Deck Rideability  8 8 (Bird baths E side-photo #1. 01/08/08).  NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))  (Fixed Type :)  Gap Size (mm)  94  S Abut  111  N Abut  Deck Drainage  4 5  Drains Clogged (Y/N) No  Curbs/Median (Curb Type : Standard)  minor spalls. S span 25% light scaling. 30Jul200 placed in 2008.  ME + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  VERTICAL TYPE INTERPRENT OF THE PLANT O	uurfaaa laalatad
(Thickness(mm) : )  Deck Top N N N  Deck Rideability 8 8 8 (Bird baths E side-photo #1. 01/08/08).  Deck Joints 3 4 NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul/2010, no leakage (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))  (Fixed Type : )  Gap Size (mm) Gap Location 94 S Abut 111 N Abut  Deck Drainage 4 5 Drains Clogged (Y/N) No  Curbs/Median 6 6 6 Vertical cracks every 500-1000mm. Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	3). Chipseal coat
Deck Top N N N  Deck Rideability 8 8 8 (Bird baths E side-photo #1. 01/08/08).  Deck Joints 3 4 NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))  (Fixed Type : )  Gap Size (mm) Gap Location 94 S Abut 111 N Abut  Deck Drainage 4 5 Drains Clogged (Y/N) No  Curbs/Median 6 6 6 Vertical cracks every 500-1000mm. Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	, .
Deck Rideability  8 8 (Bird baths E side-photo #1. 01/08/08).  Deck Joints  Temperature (deg. C) -3 (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES)) (Fixed Type : )  Gap Size (mm)  94 S Abut 111 N Abut  Deck Drainage Drains Clogged (Y/N) No  Curbs/Median (Curb Type : Standard)  8 (Bird baths E side-photo #1. 01/08/08).  NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  Vertical cracks every 500-1000mm. Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	
Deck Joints 3 4 Temperature (deg. C) -3 (Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES)) (Fixed Type : ) Gap Size (mm) Gap Location 94 S Abut 111 N Abut  Deck Drainage 4 5 Drains Clogged (Y/N) No  Curbs/Median 6 6 (Curb Type : Standard)  NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  A NE + cover plate bolts + plate loose and pounds Jnts were flood tested on 26Jul2010, no leakage  Vertical cracks every 500-1000mm. Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	
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OR SLIDING PLATES))  (Fixed Type : )  Gap Size (mm)  94  S Abut  111  N Abut  Deck Drainage  Drains Clogged (Y/N)  Curbs/Median  (Curb Type : Standard)  OR SLIDING PLATES))  (Fixed Type : )  Gap Location  4  5  Vertical cracks every 500-1000mm.  Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	observed.
(Fixed Type : )  Gap Size (mm)  94  S Abut  111  N Abut  Deck Drainage  Drains Clogged (Y/N)  Curbs/Median  (Curb Type : Standard)  Gap Location  4 5  Vertical cracks every 500-1000mm.  Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	
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Curbs/Median 6 6 Wertical cracks every 500-1000mm.  (Curb Type : <b>Standard</b> ) Minor scrapes @ base of curb; exposed water stoof bridge for 2.0m @ S3.	
(Curb Type : <b>Standard</b> )  Minor scrapes @ base of curb; exposed water st of bridge for 2.0m @ S3.	
of bridge for 2.0m @ S3.	. =
0 1 (0 14 )	p in ⊨ curb middle
Scaling (Percent Area) 1	
Bridge Rail 8 8	
(Type : GALVANIZED STEEL BRIDGE TUBE)  Isolate grout pad deterioration W rail S2.	
Bridge Rail Posts 8 5	
(Type: POST STEEL;POST STEEL)	
Bridge Rail/Posts Coating 8 8	
(Type : GALVANIZED)	
Sidewalk X X	
Girder/Beam	
Cover Plate 8 X Three girder system. Viewed from banks. Could	not inpsect S2.
Flange 8 8	1 - 2
Web 8 8	
Stiffeners 8 8	
Splice 8 8	
Weld 8 8	
Diaphragms/Cross Frame 8 8	

	Superstructure										
Bridge Component		Last	Now	Explanation of Condition							
(Primary Span : WG, 4 Spans, L	.engths(m): 53.9-53.9-	<u>53.9-53</u>	3.9, A-I	dent Number: A0907-01)							
Paint Condition		8 8									
(Colour Description : )				Weathering steel.							
(Colour Code : )											
Touchup Required (Y/N)	No										
Bearings		8	7								
Temperature (deg. C)	-3										
(Expansion Type : POT BEAR	ING)										
(Fixed Type : <b>POT BEARING</b> )											
Coating Adequate (Y/N)	Yes										
Functioning (Y/N)	Yes										
Deck Underside		6	7	A few narrow cracks with leaching.							
Stains (Percent Area)	0										
Span Alignment Problems											
Vertical (Y/N)	No										
Horizontal (Y/N)	No										
Superstructure General Rating	)	7	7								
			Outest								
Bridge Component		Last	Now	Explanation of Condition							
Abutments		Lasi	INOW	Explanation of Condition							
Bearing Seats/Caps		7	7								
(Type : CONCRETE)											
Backwalls/Breastwalls		7	7								
Buokwano, Brouetwano											
Wingwalls		7	7								
Piles		N	N								
Paint/Coating			7								
Abutment Stability		7	7								
·											
Scour/Erosion		8	8								
Piers/Bents											
(Type : PIER-SOLID)											
Bearing Seats/Caps		7	7								
(Type : CONCRETE)											
(Total Number of Bearing Piles :	0:0:0)										
Pier Shaft/Piles		7 X	7								
Bracing/Struts/Sheathing			X								
Nose Plate		7	7								
Paint/Coating		4	4	Nose plate paint 75% failed.							
(Colour Description : )				paint - silver							
(Colour Code : )											
Pier Stability		8	8								
Scour		N	N	Water too dark to see scour. Ice covered.							
Debris (Y/N)	No			(28Nov2008)							
Substructure General Rating		7	7								

Structure Usage									
		Last	Now	Explanation of Condition					
Channel									
(U/S Direction: W)			Ice covered.						
(D/S Direction : E)			(28Nov2008)						
Alignment		6	6						
Bank Stability			5	Steep cut @ NW.					
HWM (m below Top of Curb)	HWM (m below Top of Curb) 6.0								
Drift (Y/N)	No								
Slope Protection	Slope Protection								
(Type: NATURAL; NATURAL	)								
Guidebank/Spurs			X						
Adequacy of Opening			8						
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6							

08132 -1 Bridge

Maintenance Recommendations											
Inspector Recommendations		Year Inspector Comments			Department Comm	nents	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL											
GALVANIZE/PAINT BRIDGE RAIL											
RETROFIT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS		2011	Bolt down cover plates.								
RESET/ PAINT BEARINGS											
REPAINT SUPERSTRUCTURE											
STRAIGHTEN/REPLACE MEMBERS											
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSI	ON										
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow)	77.8/77.	.8 Sufficiency Rating (Last/N	Now)	67.0/66.9	Est. Repl. Yr	2039	Maint. Red	d. (Y/N)	Yes	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy	2005.03.10 Deck rehab may be required by 2020. Bridge should be good until 2080.										
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tom		arey		Previous	Assistant's Name						
		-2014		Previous	Inspection Date 30-Jul-2008						
Inspection Cycle (Default) (months) 39											
Comment											

Bridge Inspection & Maintenance System (Web 2005)