Bridge Inspection

Bridge File Numb	per 7	77563 E-1 Bridge						Form Type			PSR					
Year Built/Year		1975/1975						Lot No.			1					
Supstr								Inspector Name			Jason Rusu					
Bridge or Town N	dge or Town Name LANGDON							Inspector Class			BR CLS A					
Located Over									Assistant Name							
Located On 1:12 R1 2.444									Assistant Class							
Water Body Cl./Year						-			ection			03-Mar-2012	)			
Navigabil. Cl./Ye	ar								Entry			Anne Robert				
Legal Land Loca	tion 1	W SEC	12 TWP	24 RGE	27 W4	M			Entry			28-Mar-2012				
Longitude, Latitu	de -	113:38:4	0, 51:02:	15								Garry Roberts				
Road Authority	ļ.	Alberta T	ransporta	tion (Al	T)							12-Mar-2012				
Contract Main. A	rea (	CMA30							Dept. Reviewer Name				·			
Clear Roadway/S	Skew 1	12.2/								ew Date		29-Mar-2012	,			
AADT/Year	1	14,810 / 2	2011 (A)						w-Up		<u>-                                      </u>		·			
Road Classificati	ion F	RAD-412	.4-120						• •	_,						
Detour Length (k	(m) 1	<u> </u>														
Allowable Load (	t): Sing	le CS1	28		Semi	C	S2 49			Train	CS3 62			> On Crit >Critical	ical Spa Member	ns
Design Loading:		HS2	5											> Primary	/ Span	
						Po	osting Ir	nforma	ation							
Required Vert. C	learanc	e Postino	g (m)													
Posted Vertical C	Clearand	ce (Y/N)		No												
Posted: Lane	NB	On Br	idge (m)		In Adva	nce	(Y/N)		Lane	SB	0	n Bridge (m)		In Advanc	e (Y/N)	
Remarks	Not req	uired- tra	acks are	abandor	ned											
Required Load P	osting (	t)		Single					Semi				Truck Train			
Posted Loading (	(t)			Single				S	Semi			Truck Train				
Posted:	Lane	EB		At June	ction (Y/I	N)	No	li	In Advance (Y/N)		No	At Bridge (Y/N) No				
Posted:	Lane	WB		At June	ction (Y/I	N)		In Adv		ance (Y	(Y/N)		At Bri	dge (Y/N)		
Remarks	Not req	uired														
Hazard Marker A	t Bridge	e (Y/N)	No													
Remarks																
Other Sign Types	s		BRIDGE	ICES												
						Ut	ilities (L	ocate	ed at)							
Utility Attachmen	nts															
Telephone	NORTH	H R/W						Gas								
Power	30m S	OF CEN	TRELINE	. 4 WIR	RE.			Municipal								
Others								Probl	lem (Y	/N) N	lo					
Remarks																
							Approa									
				La						on of Co	ondi	tion				
Horizontal Alignn						9	9	On c	rest cu	ırve						
Vertical Alignmer			40.000			7	7									
Roadway Width	(m)		12.200			7	-	-								
Approach Bump			\ <u>\</u>			7	7									
Guardrail (Y/N) Yes						-	T -									
Guardrail					7	7	Not 4	hriebe	om							
Length (m)		\ \ \	99.000					INOU	шере	alli						
Current Standa	•	)	No	D DOM	'N I			-								
Termination Ty	pe		TURNE ENDS	שטט ט	IN											
Drainage						7	7									
Approach Road	Genera	al Rating	9			7	7									
								1								

					Super	structure				
Bridge Compo	onent					Explanation of Condition				
(Primary Span	: RD, 3 Spar	ns, Lengths	(m): 10.7-12.2-	10.7, A	-Ident	Number: )				
Special Featu	res									
Special Featur	re									
(Type:)										
Special Feature										
(Type:)										
Wearing Surfa										
	N (%)	1 (%)	2 (%)	3 (%)						
Last	0	0	0		0					
Now	0.0	0.0	0.0		0.0					
Wearing Surfa				4	4	CHIP COAT on ACP-total 65mm CRACKED @ deck joints				
		ONVENTION	AL CHIP SEA	L COA	<b>T</b> )					
(Thickness(n						Stains between Girders				
Lateral Conne (Y/N)	ction Problem	Yes								
Deck Top				N	N					
Deck Rideabili	ity			7	7					
Deck Joints				7	7	Tar filled open joint				
Temperature	e (deg. C)					Cracked @ piers & abuts				
(Expansion	Туре : )									
(Fixed Type	:)									
Gap Size (m	m)	Gap	Location							
Deck Drainage	)			3	3	NO DECK DRAINS.				
Drains Clogo	ged (Y/N)				_	Leakage @ piers, abuts and between girders				
Curbs/Median				3	4	Spall @ north curb exterior repaired @ A2 with exposed rebar -				
(Curb Type :	Standard;No	one)				minor.				
Scaling (Per	cent Area)	0								
Bridge Rail				7	7	4 A/B nuts with less then full thread engaged				
(Type : STEI	EL BRIDGE 1	TUBE)								
Bridge Rail Po	sts			4	4	Minor corrosion @ base plates				
(Type : GAL STEEL)	VANIZED PC	ST STEEL;	GALVANIZED	POST						
Bridge Rail/Po	sts Coating			5	5					
(Type:)										
Sidewalk				X	X					
Girder Detail R	Ratings									
	N (count)	1 (count)	2 (count)	3 (co	unt)	Corrosion cracks at G6 -abut, Sp 1- G1, G2 G11. Sp 2- G1 and Sp 3-				
Last	0	0	0		6	G1, G2				
Now	0	0	0		9	Sp 2- G2 has 300mm long corrosion spall Sp 3 - G2 has 300 mm long wide crack				
Girders				3	3	LONGITUDINAL CRACKING OF UNDERSIDE OF GIRDERS.				
Cracking (Y/	N)	Yes				CRACKS EXTEND FULL LENGTH AT SEVERAL UNITS AND ARE AT 300-400 mm FROM GIRDER EDGE.				
Spalling (Per	rcent Area)	2				AT 300-400 HIIIT NOW GINDER EDGE.				
(Number Of G	irders : 33)									

				tructure
Bridge Component		Last		Explanation of Condition
(Primary Span: RD, 3 Spans, Le	engths(m): 10.7-12.2-1	0.7, A	-Ident I	Number: )
Diaphragms/Cross Frame		Х	X	
Bearings		7	7	Exp @ abut
Temperature (deg. C)	5			Fix @ piers
(Expansion Type : REINFORC	ED NEOPRENE BEAR	ING W	/ITH	
TEFLON AND STAINLESS ST	EOPRENE BEARING	WITH		
TEFLON AND STAINLESS ST Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	5			
Span Alignment Problems	3			
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
		3	3	
Superstructure General Rating		3	3	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		Х	Х	
Piers/Bents				
(Type : PIER-COLUMN)				Spalls at both ends of P2
Bearing Seats/Caps		4	4	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles :	7:7)			
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Corrosion at bases
(Colour Description : YELLOW	)			
(Colour Code : 13538)				
Pier Stability		8	8	
Scour		Х	Х	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage										
		Last	Now	Explanation of Condition						
Grade Separation										
Road Alignment		Х	X	Railway is abandoned						
Traffic Safety Features		Х	X							
Туре	Concrete									
Slope Protection		5	5	Cracked at piles						
(Type : CONCRETE; CONCRE	TE)		_							
Bank Stability		7	7							
Drainage			7							
Grade Separation General Ration	ng	7	7							

			Maintenance Red	commend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL										
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSIG	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION										
OTHER ACTION		2012	Repair girder spall 0.3 x 1 and wide c P2	rack @						
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow)	38.9/38.	9 Sufficiency Rating (Last/N	ow)	50.6/50.3	Est. Repl.	Yr 2023	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	·			·	Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ga		Roberts		Previous /	Assistant's Name					
Next Inspection Date	03-Dec-	-2013		Previous I	nspection Date	17-Jul-	2010			
Inspection Cycle (Default) (months)	21									
Comment										