Bridge Inspection																	
Bridge File Number 75332 N-1 Bridge								Fo	Form Type			SG					
Year Built/Year 1962/1962 Supstr							Lo	No.			2						
Bridge or Town Name RED DEER								Inspector Name			Owen Salava						
					25		Ins	Inspector Class			BR CLS A						
					90		As	Assistant Name									
Located On 2:24 R1 25.996 Water Body Cl./Year							As	Assistant Class									
Navigabil. Cl./Ye									Ins	pection	Date		18-Mar-2013				
		SE.	SEC !	5 T\\/D 3	8 PGE 1	7 \///	\			ta Entry			Marcia Chavez				
Legal Land Location SE SEC 5 TWP 38 RGE Longitude, Latitude -113:49:20, 52:13:58										Data Entry Date			28-Mar-2013				
Longitude, Latitu Road Authority	•						Reviewer Name			John O'Brien							
Contract Main. A	ransport	ansportation (AIT)					Review Date			23-Mar-2013							
Clear Roadway/S		CM.		deg. (RH	DUE)					•			Chris Black				
AADT/Year	SKEW			2011 (A)	ir <i>)</i>	-)					ew Da	ite	09-Apr-2013				
Road Classificati	ion			.4-130					Fo	llow-Up	Ву						
			J- <del>4</del> 12.	.4-130					-								
Detour Length (k Allowable Load (		1 ale	CS1	71		Sem	i	S2 106		Train CS3 150			3 150	> On Critical Spans			ne
Allowable Load (	ij. Sin	gie	GIRE			Sem		IRDER			IIalli		RDER		> On Child >Critical M	ember	15
Design Loading:	·		HS2	0											> Primary	Span	
							Р	osting	nfor	mation							
Required Vert. C	learan	ice P	Posting	g (m)	UNDE	R: 2A L	_1 6.2	m, 2A F	R1 6.	2m							
Posted Vertical C	Cleara	nce (	(Y/N)		Yes												
Posted: Lane	NB	(	On Br	idge (m)	6.2	6.2 In Advance (\				Lane	SB	C	n Bridge (m)	6.2	In Advance	(Y/N)	Yes
Remarks																	
Required Load P	osting	(t)			Single					Semi				Truck Train			
Posted Loading	(t)			Single					Semi			Truck Train					
Posted:	Lane		EB		At Junction (Y/N)					In Adva	ance (	Y/N)		At Br	at Bridge (Y/N)		
Posted:	Lane		WB		At June	ction (\	//N)	No		In Adva	ance (	(Y/N) No		At Bridge (Y/N)		No	
Remarks	Not re	quire	ed.														
Hazard Marker A	t Brid	ge (Y	//N)	No													
Remarks																	
Other Sign Type	s			Route													
							U	tilities (	Loca	ited at)							
Utility Attachmen	nts																
Telephone									Ga	s							
Power									Mu	nicipal							
Others	Light s under			all 4 corr an.	ners. Fib	re opt	ic cable Pro			Problem (Y/N) No							
Remarks																	
										ch Road							
Lieuine estel All							Last		$\neg$	Explanation of Condition  Curve @ West.							
Horizontal Alignm							6	6		rve @ V crest cu							
Vertical Alignment			40.000			6	6					da a li-					
Roadway Width (m) 12.000				-	-	Mil	nor poth	oie at	⊏ pav	ring lip.							
	Approach Bump				7	7											
Guardrail (Y/N) Yes				-	-												
Guardrail				7	7												
Length (m) 99.000																	
Current Standard (Y/N) Yes																	
Termination Ty	ре			Turn Do	own				-								
	Drainage				6	4	Ero	osion alc	ng SE	= wing	gwaii.						
Approach Road	Gene	ral F	Rating	9			6	6									

					Supers	tructure
Bridge Com	ponent			Last		Explanation of Condition
	•	ns. Lenat	hs(m): 14-14.2-1			Number: A0381-01;A0381-02;A0381-03;A0381-04)
Special Feat						
Special Feat					X	
(Type:)						
Special Feat	ure				X	
(Type:)	410					
	face/Deck Top	Detail Pa	tings			
vvearing Sun	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0		0	
Now	15.0	0.0	0.0		0.0	
Wearing Surface					6	Numerous narrow longitudinal cracks in overlay & appears to be over
		======================================		6	0	girder lines.
	ype : CONCRE	=1=)				
(Thickness	(mm) . <b>50</b> )				l	
Deck Top				N	N	
Deck Rideab	ility			7	7	
Deck Joints				6	6	Missing plow defectors, 12 total.
Temperatu	re (dea. C)	-10	1			4 E abut, 2 E pier, 2 W pier, 3 W abut & 1 centre pier.  Not needed for skew.
			-MAUER, TRAN	SFLEX.	ETC))	Paving lip deteriorating on road side of E abut.
•			JER, TRANSFLI			
Gap Size (	·		ap Location		<i>)</i> /	
74			abut			
72						
72 E pier 76 C pier						
74 W pier						-
71			/ piei / abut			
/ 1		VV	abul			
De els Desires				1		No. desire
Deck Draina				4	5	No drains. Rust at ends of girders.
Drains Clo						No signs of active leakage.
Curbs/Media				4	N	(Scaling with corrosion staining at P2. 13Sep2011) - Snow covered.
` .	: Standard)					Heavy scale at SE corner.
	ercent Area)	1			1	
Bridge Rail				5	5	Retrofit rail installed.
` • •	LVANIZED ST	TEEL VER	RTICAL BAR)		1	Some bolts 2 threads less than full into nuts, 20% of original rail.
Bridge Rail F				6	6	
(Type : GA STEEL)	LVANIZED PC	OST STEE	EL;GALVANIZE	POST		
Bridge Rail/F	osts Coating			6	6	
(Type : GA	LVANIZED)					
Sidewalk				X	X	
Girder/Beam	1					
Cover Plate	е			7	7	Minor sag in bottom flange of S2-3.
Flange				6	6	
Web				7	7	
Stiffeners				7	7	
Splice				7	7	
Weld				7	7	
Diaphragms/	Cross Frame			7	7	
. ,						

			Supers	tructure
Bridge Component		Last	Now	Explanation of Condition
	.engths(m): 14-14.2-1			Number: A0381-01;A0381-02;A0381-03;A0381-04)
Paint Condition	<u> </u>	4	4	Corrosion pitting @ girder ends, 20% of end area all girders &
(Colour Description : )				superficial corrosion on bottom flanges, 5% of all girders. Orange.
(Colour Code : )				- Orange.
Touchup Required (Y/N)	Yes			
Bearings		5	5	Corrosion pitting, 20% of all bearings.
Temperature (deg. C)	-10			goriosion primitigi, 2070 or an 20amilgor
(Expansion Type : STEEL SL PLATE IN BETWEEN)		BRONZ	Έ	A1.
(Fixed Type : REINFORCED   TEFLON AND STAINLESS S	NEOPRENE BEARING TEEL)	WITH		
Coating Adequate (Y/N) No				
Functioning (Y/N)	Yes			
Deck Underside		5	5	Some staining.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Ratin		5	5	
Caperstructure General Ratin	<b>y</b>			
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		Х	6	Some staining.
Abutment Stability		7	7	
Scour/Erosion		4	4	Minor erosion N hslp & along SE wingwall; bottom of seat exposed.
Piers/Bents				
(Type : PIER-COLUMN)				Spot rust staining underside of W, E & centre pier.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles	2:2:2)			
Pier Shaft/Piles	·	7	7	
Bracing/Struts/Sheathing		Х	Х	
Nose Plate			Х	
Paint/Coating			4	Minor peeling at pier columns.
(Colour Description : )		4		
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

			Subst	ructure						
Bridge Component		Last	Now	Explanation of Condition						
Substructure General Rating		6	6							
Structure Usage  Last Now Explanation of Condition  Grade Separation  Road Alignment 6 6 6 6mm vertical crack on W side parapet, OK.  Traffic Safety Features 6 6  Type Concrete parapet										
Grade Separation			_							
-			6	6mm vertical crack on W side parapet, OK.						
Traffic Safety Features			6							
Туре	Concrete parapet		_							
Slope Protection		4	4	Slope protection on E hslp only.						
(Type: NONE; CONCRETE)				Minor erosion at W hslp.						
Bank Stability			4	Bottom of A2 seat exposed.						
Drainage			5	Slope protection undermined at SE wingwall.						
Grade Separation General Rati	ng	5	4							

Bridge Inspection & Maintenance System (Web 2005)

				Maintenance Rec	commend	ations					
Inspector Recommendations	Y	/ear	Inspecto	r Comments		Department Com		Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL											
GALVANIZE/PAINT BRIDGE RAIL											
RETROFIT BRIDGE RAIL											
SEAL CURBS	2	2013	Remove	scale, patch and seal.							
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS	2	2013	Patch paving lip, replace plow guards.								
RESET/ PAINT BEARINGS	2	2015	Recast bearings.								
REPAINT SUPERSTRUCTURE	2	2015	Touch up girder ends & bottom flange whe rusting/peeling.								
STRAIGHTEN/REPLACE MEMBER	RS										
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/ERO	SION 2	2013	SW & SE	wing erosion 1m3 pitrun.							
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION		2013	Add fill u	nder and against A2 breastw	all.						
OTHER ACTION		2013	Modify w	ing drainage; direct to trough	ıs.						
OTHER ACTION		2013	Scrape lo	oose sealant off and recoat p							
OTHER ACTION	2	2013	Patch approach pothole at W jnt.								
OTHER ACTION	2	2013	Fill gap at top of concrete slope.								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		61.1/61.1		Sufficiency Rating (Last/N (%)	ow) 6	64.6/62.9	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					'	Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	0		
Proposed Long-Term Strategy	2014-Re	ehab									
On 3-Year Program (Y/N)	Υ										
Proposed Action	2009.12.	.14 Sea	al Cracks a	and Decks in 2010. RS							
Previous Inspector's Name	Owen Sa	alava			Previous A	Assistant's Name					
Next Inspection Date	18-Dec-2	2014			Previous I	us Inspection Date 13-Sep-2011					
Inspection Cycle (Default) (months)	21						-, -,				

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

75332 N-1 Bridge

Comment