								3ridge	Inspe	ection							
Bridge File Number 75335 S-2 Bridge							Foi	Form Type			SG						
Year Built/Year 1962/1962							Lot No.			2							
Supstr										Inspector Name			Owen Salava				
Bridge or Town Name RED DEER							Inspector Class			BR CLS A							
Located Over RED DEER RIVER, 3, WATERC Located On 2:24 L1 30.696				JRS-81			Assistant Name										
Located On	/	2:24	L1 30	0.696						Assistant Class							
Water Body Cl./Ye										Inspection Date 19-Mar-201			3				
		NE S	EC 1	12 T\//D	20 DCE	20 11/4	N /		Da	Data Entry By			Marcia Chavez				
				13 TWP 38 RGE 28 W4M					Da	Data Entry Date			28-Mar-2013				
Road Authority	ue			45, 52:16:04 Transportation (AIT)					Re	Reviewer Name			John O'Brien				
Contract Main. A	rea	CMA		ansporte	וא) ווסוו	on (AII)				Review Date			23-Mar-2013				
Clear Roadway/S				deg. (RH	IF)					Dept. Reviewer Name							
AADT/Year	JKC W			2011 (A)	··· <i>)</i>					pt. Revie		e	09-Apr-2013	3			
Road Classificati	on			4-130					– Fol	low-Up	Ву						
Detour Length (k		1															
	Allowable Load (t): Single CS1 4			45 DER	Semi			S2 52 IRDER			Train	CS	3 62	3 62		> On Critical Spans > Critical Member	
Design Loading:		ı	HS20												> Primary	Span	
							P	osting	Infor	mation							
Required Load Posting (t)			Single						Semi	Semi			Truc	ruck Train			
Posted Loading ((t)				Single					Semi				Truc	Truck Train		
Posted:	Lane	N			At Junction (Y/N)		/N)	No		In Advance		Y/N)	N) No At		At Bridge (Y/N) No		
Posted:	Lane	SI	В		At Junc	tion (Y	/N)	No		In Adva	Advance (Y/N)		No	At B	At Bridge (Y/N) No		
Remarks	Not re	quired	d.														
Hazard Marker A	t Brido	ge (Y/l	N)	No													
Remarks				Not requ													
Other Sign Types	S			"No Fish	ning Off I	Bridge											
Litility Attacks	45 D		LIT	II ITIFO	DOWED	LINIT	U	tilities	Loca	ited at)							
Utility Attachmen	is P	OVVE	\ U I	ILITIES-	POWER	LIINE				•							
Telephone Power	Along	airdo	r 2 lo	wor floor	~~				Ga	s nicipal							
Others	Along	giraei	3 10	wer flan	ge.					blem (Y	/NI) N	No	0				
	Curb	condu	it cov	ver plate	ie off				FIC	mieiii (i	/IN) I	NO					
Remarks	Cuib	condu	it cov	vei piate	13 011.			Appro	ach F	Road							
							Last			Explanation of Condition							
Horizontal Alignn	nent						7	7									
Vertical Alignmer	nt						7	7									
	Roadway Width (m) 12.000																
Approach Bump				7	7												
Guardrail (Y/N) Yes						No	None @ SE. Minor damage to rail @ SW.										
Guardrail				5	5		-										
Length (m) 9			99.000														
Current Standard (Y/N) Yes																	
Termination Type Turn Down																	
Drainage					4	4	ŃΜ	(Erosion at NW under approach slab. 19Dec2011) - Not visible. NW ditch has erosion protection. Erosion at SE,SW hslps.				ot visible.					
Approach Road General Rating					7	7			,								

					Supers	tructure				
Bridge Com	ponent			Last		Explanation of Condition				
		ns, Lengths	(m): 39.6-50-5	0-39.6,		t Number: A0373-02)				
Special Feat	tures									
Special Feature					Х					
(Type:)										
Special Feat	ure				Х					
(Type:)										
Wearing Surf	face/Deck Top	Detail Rating	S							
	N (%) 1 (%) 2 (%)									
Last	0	0	0	0		Snow along shoulders.				
Now 5.0 0.0 0.0					0.0					
Wearing Sur	face			4	4	Chipseal on FRC overlay.				
	ype : CONCRE	TE - CONVE	NTIONAL CH	IP SEA	\L	Chipseal worn in travel lane, limited traction in wet/cold weather. Transverse cracks at bottom intervals.				
COAT)	(mm) : FO)									
(Thickness	(mm) : 50)									
Deck Top				N	N					
Deck Rideab	ility			7	7					
Deck Joints				3	3	Both S joint plumbing pipes leak and are eroding the headslope with				
Temperatu	re (deg. C)	-13				erosion gullies at S abut.				
(Expansion	Type : FINGE	R PLATES)								
(Fixed Type	e:)									
Gap Size (mm)	Gap	Location							
51		N. ab	out							
77		S. ab	ut							
Deck Draina	•			4	4	Abutment plumbing leaks erode headslope & perhaps adding rust at				
Drains Clo	gged (Y/N)	No				bearings and girder ends.				
Curbs/Media	n			7	7	Curb now replaced by New Jersey Barriers.				
(Curb Type	: JERSEY/F S	SHAPE)				Cracks at 0.6m intervals.				
Scaling (Pe	ercent Area)	1								
Bridge Rail				7	7	Some panels have minor bent vertical, no problem.				
(Type : GA	LVANIZED ST	EEL VERTIC	CAL BAR)			3 posts on E side have minor dents. Grout under posts delam with				
Bridge Rail F	Posts			7	7	void 40%. Both nuts on EP1 & EP2 posts were left high. Concrete				
(Type : GA STEEL)	LVANIZED PC	OST STEEL;	GALVANIZED	POST		New Jersey Barriers added along both curbs negating vertical for defects.				
Bridge Rail/F	osts Coating			5	5					
	LVANIZED)									
Sidewalk	,			Х	Х					
Girder/Beam	1									
Cover Plate					X	(Cracked floor beam in S2 is sistered.				
Flange					7	CIF repairs, fatigue cracks repaired in 2011. Corrosion damage at splice arrested in 2011. 19Dec2011).				
Web					7					
Stiffeners										
Splice				5	5					
Weld				7	7					
Diaphragms/	Cross Frame			7	7					

			Supars	tructure			
Bridge Component			<u> </u>	Explanation of Condition			
(Primary Span : WG, 4 Spans,	Lengths(m): 39.6-						
Paint Condition		4	4	Extensive blistering.			
(Colour Description : GREEN	I)			Corrosion bloom on bottom flanges.			
(Colour Code : 14090)	.,						
Touchup Required (Y/N)	Yes						
Bearings	1.00	4	4	Center bearing @ N abut missing 1 anchor bolt, deteriorating bearing			
Temperature (deg. C)	-13	7		pad @ abuts.			
(Expansion Type : ROCKER				Over-extended bearing at A1.			
(Fixed Type :)				Abut bearings show pitting at bearing surfaces, 20% of abut			
Coating Adequate (Y/N)	No			bearings. (Pier bearing pads repaired in 2011. 19Dec2011).			
Functioning (Y/N)	Yes						
Deck Underside	1.55	7	7	Moderate efflorescence @ transverse			
Stains (Percent Area)	1			cracks @ ext and @ efflorescence @ South span. Rebar material			
				reflected at underside, S4.			
Span Alignment Problems	NI-						
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Ratio	ıg	4	4	(bearings)			
			Subst	ructure			
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
Bearing Seats/Caps		7	7	Debris on A1 seat due to plumbing problem.			
(Type : CONCRETE)							
Backwalls/Breastwalls		7	7				
Wingwalls			4	Minor cracking.			
Piles		N	N				
Paint/Coating		Х	Х				
Abutment Stability		7	7				
Scour/Erosion		3	3	Erosion gully at S abut at trough drains.			
Piers/Bents							
(Type : PIER-SOLID)				Vertical cracks with staining. 95% are sealed with epoxy.			
Bearing Seats/Caps		7	7	Cracks caulked.			
(Type : CONCRETE)							
(Total Number of Bearing Piles	: 0:0:0)						
Pier Shaft/Piles		7	7				
Bracing/Struts/Sheathing		Х	Х				
Nose Plate		7	7				
Paint/Coating			4	Aluminum paint on nose plate 75% worn off at P1,2.			
(Colour Description :)							
(Colour Code :)							
Pier Stability			8				
Scour			N				
Debris (Y/N)	No						
Substructure General Rating		7	7				

		5	re Usage					
			Now	Explanation of Condition				
Channel								
(U/S Direction : W)								
(D/S Direction : E)								
Alignment		8	8					
Bank Stability		7	7					
HWM (m below Top of Curb)				HWM not visible.				
Drift (Y/N)	No							
Slope Protection		7	7	Concrete slope protection on headslope. Class II on bank @ South.				
(Type : CONCRETE; RIP RAP	; CONCRETE)			Concrete @ North abutment. Separated from abutment 130mm @ North abutment.				
Guidebank/Spurs			X					
Adequacy of Opening			8					
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7						

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Reco	ommendations				
Inspector Recommendations	Year	Inspector Comments	Department Cor	nments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Seal parapets.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair South abutment plumbing so pi don't leak & repair erosion on headslop	pes pe.				
RESET/ PAINT BEARINGS	2013	Install anchor bolt @ center bearing N Repair grout pads. Reset S bearing. Paint bearings.	abut.				
REPAINT SUPERSTRUCTURE	2013	Assess painting alternatives.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2013	Abut drains & seats; clean & seal abuts	s.				
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Erosion gullies at S abut.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill void at NW approach slab, if not ye	t done.				
OTHER ACTION	2013	Blast & paint pier nose plates.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now (%)) 61.1/61	.1 Sufficiency Rating (Last/No (%)	ow) 60.3/60.3	Est. Repl. Yr 2	Maint. Re	qd. (Y/N)	Yes
Special (At next Lvl 2 monitor for Mext Inspection (At next Lvl 2 monitor bottom lateral	floor beam cra gussets for fa	ack in S4, monitor for out-of-plane distortatigue. 19Dec2011).	tion, and Department Comments		,	,	
Maintenance Reviewed By			Date		Estimated Tota	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name Ed	d Kowal	F	Previous Assistant's Name				
Next Inspection Date 19	9-Dec-2014	F	Previous Inspection Date				
Inspection Cycle (Default) (months) 21							

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

75335 S-2 Bridge

Comment