Bridge Inspection & Maintenance System (Web 2005)

							sridge I	nspecti	on								
Bridge File Number 81557 -1 Bridge								Form	Form Type PSR								
Year Built/Year								Lot No	Lot No. 2								
Supstr	dge or Town Name RED DEER						Inspector Name Owen Salava										
							Inspector Class BR CLS A										
Located Over							Assist	ant Na	ame								
_ocated On							Assist	ant Cl	ass								
Nater Body CI./		ar						Inspec	ction E	Date	01-Feb-2012	01-Feb-2012					
Navigabil. Cl./Yo								Data E	Entry E	Зу	Marcia Chav	/ez					
Legal Land Loca		NW SEC 19 TWP 38 RGE 27 W -113:51:21, 52:17:18				/4M		Data E	Entry [Date	02-Mar-2012	2					
ongitude, Latit	ude							Review	wer Na	ame	John O'Brie	า					
Road Authority			a Transpo		AIT)			Review	w Date	е	23-Feb-2012	2					
Contract Main.		-	FINED C					Dept.	Revie	wer Nai	me Andrew Smi	kles					
Clear Roadway	Skew		9 deg. (Ll	· · · · · · · · · · · · · · · · · · ·				Dept. Review Date 09-Mar-2012									
ADT/Year		15,00	0 / 2005 (I	Ξ)				Follow-Up By									
Road Classifica	tion	RFD-	412.4-130														
Detour Length (<u> </u>	7				1											
llowable Load	wable Load (t):SingleCS1 28SemiCS2 49TrainCS3 62							> On Criti	cal Spans								
Design Loading: CS750																	
Design Loading: CS750					B	octing	nformat	tion				> Primary	Span				
Required Vert. Clearance Posting (m)					P	osting I	morma	lion									
Posted Vertical Clearance (Y/N) No																	
Posted: Lane NB On Bridge (m) In Adv				()///NI)			SB	On Dridge (m)			· ()//NI)						
Remarks Not required.				ance	(Y/N)		_ane	5B	On Bridge (m)		In Advance	e (Y/N)					
Required Load Posting (t) Single										-	- ·						
•		(t)							emi			Truck Train Truck Train					
osted Loading	<u>.</u>	Single															
Posted:		Lane EB At Junction (No		In Advance (Y/N) No At Bridg					No			
Posted: Lane WB At Junction ()				Y/N)	No	In Advance (Y/N) No At Bridge (Y/N) No											
Remarks Not required.																	
Hazard Marker At Bridge (Y/N) No																	
Remarks Not required.																	
Other Sign Types Information																	
						Ut	ilities (Located	d at)								
Jtility Attachme	nts							-									
Telephone							Gas										
Power								Munic	•								
Others	Street	lights.						Problem (Y/N) No									
Remarks																	
							roach Road										
						Last	Now		Explanation of Condition Typical crest curve grade separation.								
	Horizontal Alignment					7	7		al cres	i curve	grade separation	1.					
v		Vertical Alignment				7	7	00.0						0)4/			
ertical Alignme	ent		Roadway Width (m) 39.600				-				nedian. 17.0m E dropped. ok.	B curl	o to median.	SW corner			
/ertical Alignme Roadway Width	ent (m)		39.60	0	Approach Bump			ACP separated and dropped, ok.									
/ertical Alignme Roadway Width	ent (m)			0		6	6										
/ertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	ent (m)		39.60 Yes	0				Improp	per lap	o 1 sect	ion @ SE corne	:					
Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	ent (m)		Yes			6 4	6										
/ertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	ent (m)		Yes 30.00					NW - 2	29.3m	; SW &	NE - 55.9m; SE	- 14.1	m. Adequate ୭ SW	for urban.			
Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand	ent (m) o ard (Y/	N)	Yes 30.00 Yes	0				NW - 2	29.3m	; SW &		- 14.1	m. Adequate 9 SW.	for urban.			
Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand Termination T	ent (m) o ard (Y/	N)	Yes 30.00 Yes			4		NW - 2	29.3m	; SW &	NE - 55.9m; SE	- 14.1	m. Adequate ℣SW.	for urban.			
Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand	ent (m) o ard (Y/	N)	Yes 30.00 Yes	0				NW - 2	29.3m	; SW &	NE - 55.9m; SE	- 14.1	m. Adequate ℣ SW.	for urban.			

						Supers	structure							
Bridge Component					Last	Now	Explanation of Condition							
(Primary Span : CBC, 1 Spans, Lengths(m): 27, A-Ide				27, A-Ide	ent Nur	mber:)								
Special Features														
Special Featu	ıre					7	MSE wall.							
(Type :)														
Special Featu	ıre					Х								
(Type :)														
Wearing Surfa	ace/Deck Top	Detail Ra	tings											
	N (%)	1 (%)	2 (%	5)	3 (%)									
Last							Snow/gravel covered.							
Now	20.0	0.0		0.0	0).0	Show/graver covered.							
Wearing Surf	ace				4	4	Narrow transverse crack in ACP, typical.							
(Material Type : ACP)							Longit. crack on WBL near median.							
(Thickness)	· · · · · · · · · · · · · · · · · · ·						No staining under deck yet. Asphalt unravelling EB/WB - photo.							
Lateral Connection Problem No (Y/N)														
Deck Top					N	N								
Deck Rideability					8	8								
Deck Joints					5	5	Missing plow deflectors in W abut joint - 5 in EB, 5 in WB.							
Temperature (deg. C) -11					5	5	Plow deflectors may not be required for 19 degree LHF skew.							
(Expansion Type : GLAND (WABO-MAUER, TRANS				TDANG			E jnt missing 5 deflectors, broken.							
					FLEA,	EICJ								
(Fixed Type :) Gap Size (mm) Gap Location														
Cap Size (IIII) Cap Education 76 E abut - A2							-							
58 West abutment - A							-							
58	50			nent - A1			-							
					0	0								
Deck Drainag	,				8	8								
Drains Clog		No												
Curbs/Median			5	5	Transverse cracks in face and top at 300 - 400mm intervals. Plow damage @ WBL, NW corner, minor. Sag in South curb. Appears to									
(Curb Type : Standard)					have been constructed that way.									
Scaling (Percent Area) 1														
Bridge Rail					8	8								
(Type : GALVANIZED STEEL BRIDGE TUBE)														
Bridge Rail P					4	4	Insufficient thread on one post A/B in South rail. 5% grout pads deteriorating.							
(Type : GA STEEL)	LVANIZED PO	OST STEE	EL;GALV	ANIZED	POST									
Bridge Rail/P	osts Coating				7	7								
(Type : GALVANIZED)														
Sidewalk					X	X								
Girder Detail	Ratings					-								
	N (count)	1 (count)	2 (co	ount)	3 (cou	unt)								
Last														
Now	0	0		0		0								
Girders					8	8	6 girders added at South end for widening of bridge structure in							
Cracking (Y	′/N)	No					2001.							
	· · ·	0												
Spalling (Percent Area) 0 (Number Of Girders : 27)							-							

			structure	
			Now	Explanation of Condition
(Primary Span : CBC, 1 Spans	, Lengths(m): 27, A-Id			
Diaphragms/Cross Frame		8	8	
Bearings			7	A/B's not plumb, cast that way. Slight deformation.
Temperature (deg. C) -11				
(Expansion Type : REINFOR TEFLON AND STAINLESS S		RING W	VITH	
(Fixed Type : REINFORCED TEFLON AND STAINLESS S	NEOPRENE BEARING	6 WITH		
Coating Adequate (Y/N)	Yes			-
Functioning (Y/N)	Yes			-
Deck Underside	165	8	8	
	0	0	0	
Stains (Percent Area)	0			
Span Alignment Problems	NI			
Vertical (Y/N)	No	_		-
Horizontal (Y/N)	No		-	
Superstructure General Ratin	g	7	7	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Medium vertical cracks under bearings, typical.
(Type : CONCRETE)				3 -7,7,1
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	Wide vertical crack @ SW interface with bearing seat.
Piles		N	N	
Paint/Coating		6	6	Cracking on wingwalls.
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type:)				-
Bearing Seats/Caps		X	X	-
(Туре:)				
(Total Number of Bearing Piles	:)			_
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		Х	X	
Paint/Coating		X	Х	
(Colour Description :)				1
(Colour Code :)				
Pier Stability		X	X	
Scour		X	x	
Debris (Y/N)	Yes			
			6	
Substructure General Rating		6	6	

	S	ıre Usage				
	Last	Now	Explanation of Condition			
Grade Separation						
Road Alignment	9	9	Chain link fence along top of wall for access to bearings and for safety.			
Traffic Safety Features	X	Х				
Туре						
Slope Protection	X	X				
(Type :)						
Bank Stability	8	8	Inter-lock retainer wall.			
Drainage	8	8				
Grade Separation General Rating	8	8				

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Bridge Inspection & Maintenance System (Web 2005)

81557 -1 Bridge

			Maintenance Recommendations	commenda	tions					
Inspector Recommendations	Year	Inspector	Inspector Comments		Department Comments	iments		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/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Reinstall lap.	Reinstall SE section of guardrail with proper lap.	proper						
OTHER ACTION	2012	Redo asp	Redo asphalt on bridge.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
					1010		100			
Structural Condition Rating (Last/Now) (%)	72.2/72.2	2.2	Sufficiency Rating (Last/Now) (%)	-	51.9/61.4	Est. Repl. Yr	2044	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		Ŭ	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ow	Owen Salava			Previous A	Previous Assistant's Name	Chris Black				
Next Inspection Date 01-	01-May-2015			Previous In	Previous Inspection Date	30-Mar-2010				

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Inspection Cycle (Default) (months) 39	39
Comment	

			Maintenance Recom	menc	dations							
Inspector Recommendations	Year	Inspector	Comments		Department C	Com	iments		Target Ye	ear	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/EROSION												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
OTHER ACTION	2012	Reinstall lap.	SE section of guardrail with pro	per	Operations				2012			
OTHER ACTION	2012	Redo asp	halt on bridge.		Operations				2012			
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)	72.2/72		Sufficiency Rating (Last/Now (%)) !	51.9/61.4		Est. Repl. Yr	2044	Maint	. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	DA	Ą					
Maintenance Reviewed By Darro	n Ahlsted	t			Date	05	-Nov-2012		Estimated	Total	0	

Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Owen Salava	Previous Assistant's Name	Chris Black
Next Inspection Date	01-May-2015	Previous Inspection Date	30-Mar-2010
Inspection Cycle (Default) (months)	39		
Comment			