Bridge Inspection																	
Bridge File Numb	oer	76159 -1 Bridge						Form Type				PSR					
Year Built/Year									Lot No.			2					
Supstr									Inspector Name			Kris Bosters					
Bridge or Town Name ARDROSSAN									Inspector Class			BR CLS A					
Located Over 16:20 L1 6.				6 523·16·20 P1 6 523					Assistant Name			DI OLO A					
Located On 824:02 C1 17.237							-	Assistant Class									
Water Body Cl./Y	'ear								Inspection Date			27-Mar-2012	·				
Navigabil. Cl./Ye	ar								Data Entry By			Theresa Lac					
Legal Land Loca	tion	NW S	C 11 TWP	11 TMD 53 DCE 22 M//M					Data Entry Date			04-Apr-2012					
Longitude, Latitu	de	-113:0	8:52, 53:34	52, 53:34:12					Reviewer Name			Eric Carcoux					
Road Authority		Alberta	a Transport	ransportation (AIT)					Reviewer Name Review Date			04-Apr-2012					
Contract Main. A	rea	CMA0	9					-			Jame	Brent Herric					
Clear Roadway/S	Skew	10.4 /							pt. Revie			11-Apr-2012					
AADT/Year		2,890	2011 (A)						low-Up I			11-Api-2012	•				
Road Classificati	on	RAU-2	10-110					1 01	iow-op i	Dy .							
Detour Length (k	m)	1															
Allowable Load (t): Sin		S1 33		Semi		CS2 54			Train		3 64	> On Critica		al Spa	al Spans	
			IRDER			GIRDER					CC	LUMN		>Critical M			
Design Loading:		H	S20											> Primary	Span		
D : 17/ 10			··	LINIDE	2 40 1 4		sting										
Required Vert. C					R: 16 L1	1 5.2r	n, 16 K	1 5.2	<u>m</u>								
Posted Vertical C				Yes			0.40 N	.,		1		-	Ī		0.40.0	1.,	
	EB	On	Bridge (m)	5.4	In Adva	ance ((Y/N)	Yes	Lane	WB	O	n Bridge (m)	5.2	In Advance	(Y/N)	Yes	
Remarks				1								T . T .					
Required Load P		(t)		Single					Semi			Truck Train					
Posted Loading (. ,			Single					Semi			Truck Train					
	Lane	NB		At Junction (Y/N)			No			vance (Y/N)		No	At Bridge (Y/N)		No		
	Lane	SB		At Junction (Y		/N)) No		In Advance (Y/N)		Y/N)	No At Bridge (Y/N)		No			
		quired.															
Hazard Marker A	t Bridg	ge (Y/N															
Remarks				Not required. Information, Exit Speed 30.													
Other Sign Types	S		Informa	ation, Exi	it Speed												
						Ut	ilities (Loca	ted at)							<u>:</u>	
Utility Attachmen							Coo 100 m North of atrusture										
		North I									m North of structure.						
	3 lines	s North	& East of r	East of r/w.					Municipal								
Others									Problem (Y/N) No								
Remarks							A										
						Approach Road											
Horizontal Alignn	nent			Last Now 7					Explanation of Condition Typical on/off ramps.								
Vertical Alignmen						6	6		Typical on/off ramps. Crest curve, no passing, limited si					ances.			
							0										
Roadway Width (m) 10.400																	
Approach Bump						5	5	-									
Guardrail (Y/N)		Yes	Yes		3		En	Ends of flexbeam rail rusty all 4 corners @ connected to parapet @ NE, parapet spalle			parapet con	nection	i. Not				
Guardrail							3	_ pho	oto	•	apor	J ITE, parape	, opai	.ou at fall boll			
Length (m)			60.000					No	lo thrie beam.								
Current Standard (Y/N) N			No														
Termination Ty	ре		Turned	Down													
Drainage						3	3	Holes in ACP along NE parapet allow water to drain under approach-photo					roach.				
								NE	w drain	trough	ns.						

					Approa	nch Road						
				Last Now								
Approach Road General Rating					6							
					C							
Bridge Comp	nonent					Explanation of Condition						
		ne Lanathe	(m): 29-16.2-29			<u> </u>						
Special Feat		is, Lengths	(111). 29-10.2-23	, A-Iuc	iit Nuii							
Special Featu				7	7	special feature type: "Steel Reinforcing @ pier legs" - rate '8'.						
·	ΓLATER POS	T TENS)		<u>'</u>		Special feature type: 'underslung diaphragm' -rate '8'.						
Hinge				4	3	Random delams and spalls with rust stains along hinges, worst on						
(Hinge Type :	: CONC)			'		exterior girdersphoto						
	ace/Deck Top	Detail Ratir	igs									
N (%) 1 (%) 2 (%)						Gravel buildup along curbs.						
Last												
Now	10.0	0.0	0.0		0.0							
Wearing Surf	ace			5	5	1.2m x 0.2m delam near P1.						
(Material Ty	/pe : CONCRE	TE - CON	ENTIONAL CH	IP SEA	L							
(Thickness)	(mm) : 50)											
Lateral Conn (Y/N)	ection Problem	n No										
Deck Top					N							
Deck Rideabi	ility			7	7							
Deck Joints				6	4							
Temperatur	re (deg. C)	6				N. joint appears to be leaking as evident by water and stains on backwallphoto						
(Expansion ETC); ARM SLIDING P	OURED GLAN	D (WABO-I ND (WABO	IAUER, TRANS UNDER FINGE	SFLEX, R OR								
(Fixed Type	: GLAND (W	ABO-MAUI	R, TRANSFLE	X, ETC))							
Gap Size (r	mm)	Gap	Location									
67		S. a	butment			Measured @ cl						
78			inge									
82			inge									
78		N. a	butment									
						-						
Deck Drainag				N	4	No deck drains.						
Drains Clog	, , , , , , , , , , , , , , , , , , ,					N joint leaking.						
Curbs/Mediar				4	4	Long wide crack at abase of parapet on W. side in middle of span 2						
	: NEW JERSI					_						
Scaling (Pe	ercent Area)	2				Wide cracks on outside face under posts at previous repairs. Vertical hairline cracks every 0.3m.						
Bridge Rail				7	7	Rail access hole cap missing at NEphoto						
	LVANIZED ST	EEL BRID	GE TUBE)			Trail access flore cap fillssifig at the photo						
Bridge Rail P				4	7							
STEEL)		OST STEEL	;GALVANIZED	POST								
Bridge Rail/P				7	7							
(Type : GA	LVANIZED)											
Sidewalk				X	X							

						Supers	structure					
Bridge Com	ponent				Last		Explanation of Condition					
	n : FC, 3 Spa	ns, Le	ngths(n	n): 29-16.2-2 9	, A-Ide	ent Nun	•					
Girder Detail	Ratings											
	N (count)	1 (co	unt)	2 (count)	3 (count)							
Last												
Now	0		0	0		2						
Girders					4	3	Wide cracks @ shoe plates 75% girders. Minor delams & spalls at					
Cracking (Y	//N)		Yes				hangers. Typical FC narrow cracking in chamfer @ ends. Spall in S3G5-W. Lack of cover on stirrup leg - photo. Spot rusting in leg of					
Spalling (Pe	ercent Area)		0				S1G1, G7 & S2G7. Rust spots East leg G7 S1.					
(Number Of 0	Girders : 7)						Exposed rusting rebar outside face of \$2G1 due to low cover.					
							Wide crack with rust S1G7photo 10mm crack at end of girder at hanger S1H1 & 2photo					
Diambra support	Очесь Гисина				1	1						
Diaphragms/	Cross Frame				4	4	Cracked & rust stained with rebar exposed@ S2G6 North end.					
							Delam cracks and rust stains near chamfer S3G3 & 6.photo					
Bearings					4 4		All 4 corner bearings are slightly distorted, rest not visible without ladder.					
Temperatui	`		6									
(Expansion	Type: REINI	FORCE	ED NEO	PRENE BEA	RING V	WITH	Grout pad @ NW bearing @ A2 deteriorated.					
							Exterior bearings are rusting.					
` ,	e : PINNED B equate (Y/N)	LAKIN	No				Exposed bearing plates rusting at hinge 1 & 2 on West side and					
Functioning	· · · · · · ·		Yes				hinge on East sidephoto					
Deck Unders			162		6	6						
Stains (Per			1		0	0						
			ı									
Vertical (Y/	nent Problem	S	No									
Horizontal (•		No				-					
	`	Poting	INO		4	3						
Superstructi	ure General F	vaurig			4	3						
						Subst	ructure					
Bridge Comp	ponent				Last	Now	Explanation of Condition					
Abutments												
Bearing Seat					5	5	Narrow delam drack 2m long @ W. end of South abut. 500mm dia. spalls on face at 3 locations.					
(Type : CO	· · · · · · · · · · · · · · · · · · ·						300mm dia. Spans on race at 3 locations.					
Backwalls/Br	eastwalls				6	6						
Wingwalls					6	6						
vviilgwaiis												
Piles					N	N						
Doint/Coating												
Paint/Coating	J				6	6						
Abutment Sta	ability				6	6						
Scour/Erosio	n				3	8						
Piers/Bents												
	R-COLUMN)											
Bearing Seat					7	7						
(Type : CO	-				,	,	-					
	er of Bearing F	Piles · (0:0)				4 pier columns (2 piles/column).					
Pier Shaft/Pil			,		7	7	- F					
Bracing/Strut					X	X						
					,,							
Nose Plate					X	X						

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Paint/Coating		7	7					
(Colour Description :)								
(Colour Code :)								
Pier Stability			7					
Scour		Х	Х					
Debris (Y/N)	ebris (Y/N) No							
Substructure General Rating			5					
		5	Structu	re Usage				
		Last	Now	Explanation of Condition				
Grade Separation								
Road Alignment		7	7					
Traffic Safety Features		7	7					
Туре	Guardrail							
Slope Protection		5	5	South abutment settled & cracked - out 270.				
(Type : CONCRETE; CONCR	ETE)			Down 80. North 150 out, 50 down along West half. Repaired by casting concrete in void.				
Bank Stability			6					
Drainage			6					
Grade Separation General Rat	ing	5	6					

Bridge Inspection & Maintenance System (Web 2005)

76159 -1 Bridge

			Maintenance Reco	mmend	ations					
Inspector Recommendations	Year	Inspecto	r Comments		Department Comr	nents		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Replace	NE approach connections.							
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2012	Repair le	eaking joints.							
RESET/ PAINT BEARINGS	2012	Repair g	rout bearing pad @ NW corne	r						
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSI	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION			CP along parapets.							
OTHER ACTION			pall on parapet at SW.							
OTHER ACTION	2012	Consider deteriora connection	r options for preventing further tion and/or repairing pinned gi ons.	rder						
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 50.0/	14.4	Sufficiency Rating (Last/No (%)	w) 5	5.4/54.2	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Monitor girder crack Monitor diaphram in Monitor crack in ba Monitor delam crac	se of parapet	@ S2.			Department Comments			,		
Maintenance Reviewed By					Date			Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Shane Hall		Р	revious A	evious Assistant's Name					
Next Inspection Date	27-Dec-2013		P	revious I	nspection Date	23-Sep-2010)			
Inspection Cycle (Default) (months)	21									