Bridge Inspection																
Bridge File Num	ber	0223	36 -1 E	Bridge				Ž	Form				SG			
Year Built/Year		1955	5/1955	;					Lot No).			1			
Supstr									Insped	ctor N	ame		Dave Lam			
Bridge or Town	Name			0.005	- 14 0 40				Insped	ctor C	lass		BR CLS A			
Located Over					EK, 3.46	, WATEI	RCI	RS-ST	Assist	ant N	ame					
Located On	. ,	806:	04 C1	9.053			Assistant Class									
Water Body CI./									Insped	Inspection Date 16-Jul-2011						
Navigabil. Cl./Ye		014							Data E	Entry	Ву		Marcia Chav	ez		
Legal Land Loca		+				25 W4N	1		Data E	Entry	Date		15-Aug-2011			
Longitude, Latitu	ıde			3, 51:34:					Revie	wer N	lame		John O'Brier	1		
Road Authority				ansporta	ation (Al	1)			Revie	w Dat	:e		27-Jul-2011			
Contract Main.		CMA							Dept.	Revie	wer Na	ame	Chris Black			
Clear Roadway/	Skew			40 (4)					Dept.	Revie	w Date	Э	30-Aug-2011			
AADT/Year		1,580 / 2010 (A) RCU-210-110							Follow	/-Up [Зу					
	Classification RCU-210-110								-							
Detour Length (I							ni HS 53			1			0.00		0 0 %	10
Allowable Load	(t): Sii	ngle H 41 Sem GIRDER				Semi		RDER			Train		S3 90 RDER		> On Critical Spans >Critical Member	
Design Loading:		HS20			'							> Primary	Span			
- U							Po	osting Ir	nforma	tion					J	'
Required Load F	Required Load Posting (t) Single								Semi			Truc	k Train			
Posted Loading	(t)	Single						S	Semi			Truck Train				
Posted:	Lane	· N	NB At Junction (tion (Y/N	J)	No	In Advance (Y/N)		′/N)	No	At Bridge (Y/N) No		No	
Posted:	Lane	. 8	SB At Junction (tion (Y/N	I)	No	In Advance (Y		′/N)	No			No	
Remarks	Not re	ot required.														
Hazard Marker At Bridge (Y/N) Yes																
Remarks Too low at SE corner.			orner.													
Other Sign Type	es	75 km/hr, curve.														
		7.5					Ut	ilities (L	ocated	d at)						
Utility Attachme	nts															
Telephone	Plow	ed in E & W ditch.							Gas							
Power	2 wire	e OH 80 m W of c/l.						Munic	ipal							
Others	Phon	ne cros	e crossing under S headslope.			pe.			Proble	em (Y.	/N) N	lo_				
Remarks			e OH crosses road 100m S.													
Telus tied to W rail on bridge. Approach Road																
				1:	ast	Now			n of Co	ondi	tion					
Horizontal Alignment					4	4	Sharp curve N. S new approach.									
Horizontal Alignment Vertical Alignment				5	5	Max g	Sharp curve N. S new approach. Max grade of 4% both ways. No passing NB.									
				10.700				,								
Roadway Width (m) 10.700 Approach Bump				5	5	Bump @ N end has been patched with ACP.										
Guardrail (Y/N)				Yes				,								
Guardrail							8	8	NE - 53.2m, NW - 57.0, SE - 76.0, SW - 30.5m.							
Length (m)				30.500				,	NE - 5	3.2M	, NVV -	57.0	, SE - /6.0, S	vv - 3	ou.5m.	
Current Stand	ard (Y	/N)		No					Not th	riebea	am.					
Termination T		,			D DOWI	V										
Drainage				EINDO			7	3	Heavy	corr	osion a	t all	corners; no co	oncre	te drain trough	ıs.
Approach Road	d Gen	eral R	ating				4	4								

				Supers	tructure					
Bridge Component			Last		Explanation of Condition					
(Primary Span : RB, 3 Spa	ns, Lengths(n	n): 12.2-18.3-	12.2, A	-Ident I	Number: A0246-01)					
Special Features										
Special Feature				7	Stirrup strengthening.					
(Type : UNDERSLUNG I	DIAPHR)				At girder pin connection locations, typical (photo).					
Special Feature				X						
(Type:)										
Wearing Surface/Deck Top	Detail Ratings	3								
N (%)	1 (%)	2 (%)	3 (%)							
Last										
Now 0.0	0.0	0.0	C	0.0						
Wearing Surface			7	6	Random transverse cracking - photo.					
(Material Type : CONCR	ETE)									
(Thickness(mm): 50)	,									
Deck Top			N	N						
Deck Rideability			8	8						
Deck Joints			4	3	Evidence of leaking @ N abutment, old forms dislodged - photo.					
Temperature (deg. C)	13				Gap at NW corner (photo). KOCH ints at piers.					
(Expansion Type :)					ROCH juits at piers.					
(Fixed Type : OTHER;BL	JFFER ANGLE	ES)								
Gap Size (mm)		ocation								
Deck Drainage			4	4	(Ponding due to drains plugged by ice windrow - photo. 17Mar2005).					
Drains Clogged (Y/N) No					Not visible this inspection.					
Diailis Glogged (1/14)					Jnt leakage adding rust at girder ends & end diaphragms. Deck drainage eroding hslps at both abuts (photo).					
Curbs/Median				4	150mm high curb due to O/L.					
(Curb Type : Standard)					Curb is deteriorating at various local spots (photo).					
Scaling (Percent Area)	5									
	Ü		7		Consists of 2 rows of rolling between neets					
Bridge Rail	TEEL DRINGE	: TUDE\	7	4	Consists of 2 rows of railing between posts - photo. Temp retrofit thriebeam installed on E side spaning btwn missing					
(Type : GALVANIZED S	I EEL BRIDGE	. IUBE)	4	2	concrete posts, but the post over P1 where thriebeam is attached has deteriorated & exposing rusted rebar & is insufficient to resist					
Bridge Rail Posts	DETE-DDEA	100400 T9	-		crash impact (photo).					
(Type : PRECAST CONC	SKETE;PKEC/	AST CONCRE		2	10% posts cracking - photo. Rusting 30%.					
Bridge Rail/Posts Coating			4	3	reading 5070.					
(Type : PAINT)			\ \\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
Sidewalk			X	X						
Girder/Beam										
Cover Plate			7	7						
Flange			7	7						
Web			7	7						
Stiffeners			7	7						
Splice			7	Х	Pin at splice jnt.					
Weld			7	7	Pin at splice jnt.					
Diaphragms/Cross Frame			7	7	Corrosion below N abut jnt.					

			Supers	tructure			
Bridge Component		Last		Explanation of Condition			
(Primary Span : RB, 3 Spans, Le	ngths(m): 12.2-18.3-	12.2, A	-Ident I	Number: A0246-01)			
Paint Condition		4	3	Surface corrosion @ ext bottom flange			
(Colour Description : GREEN)				- 15%. Corrosion with some pitting @			
(Colour Code : 14090)				hangers & @ ends of girder & bearings @ abuts - photo.			
Touchup Required (Y/N)	Yes						
Bearings		3	3	N abut G3 bearings have two sheared A/Bs.			
Temperature (deg. C)	13			N pier G2 bearing has one sheared A/B - photos. N abut bearing A/B bent due to expansion (G2).			
(Expansion Type :)				S pier G3 is missing nut on 1 bearing anchor bolt; bolt too short,			
(Fixed Type : STEEL SLIDING IN BETWEEN)	PLATES WITH BROM	NZE PL	ATE	maybe sheared (photo).			
Coating Adequate (Y/N)	No						
Functioning (Y/N)	Yes						
Deck Underside		4	4	Some stains around joints & under both curbs near exterior girders -			
Stains (Percent Area)	2			efflorescence. Poor cold joint in S1 & S3 cracking across full width deck U/S -			
				photo. S3 between G3/G4 deck U/S honeycombing with bottom rebar			
		exposed (insufficient cover & poor consolidation @ construction).					
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating		3	3				
Pridge Component		Loot		ructure			
Bridge Component Abutments		Last	Now	Explanation of Condition			
Bearing Seats/Caps		6	6				
(Type : CONCRETE)							
Backwalls/Breastwalls		6	6				
Wingwalls		4	3	NW exterior deteriorating (photo).			
Piles		N	N				
Paint/Coating		Х	Х				
Abutment Stability		8	5				
Scour/Erosion		7	4	Hslp erosion & gullies caused from approach run-off & deck drainage.			
Piers/Bents		1					
(Type : PIER-COLUMN)				Cast in place concrete shaft encasing			
Bearing Seats/Caps		7	7	piles to 3.0 m above SB.			
(Type : STEEL)							
(Total Number of Bearing Piles : 0	D:0)			Steel piles are 250mm diameter.			
Pier Shaft/Piles		6	6	4 steel pipe columns per pier, but bearing piles unknown.			
Bracing/Struts/Sheathing		Х	6	Steel channel welded to each column & wrapped around top of columns.			
Nose Plate		Х	X				
Paint/Coating		4	4	Medium scaling at inside face of both & at u/s end of N pier.			
(Colour Description : GREEN)		•		Steel cap/piles rusting.			
(Colour Code : 14090)							
Pier Stability		5	5				

				ructure					
Bridge Component		Last	Now	Explanation of Condition					
Scour		5	5	Scour E side of S pier - not affecting abut stability.					
Debris (Y/N) No									
Substructure General Rating		6	5						
		5	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel									
(U/S Direction : W)				NW corner deep erosion due to deck drain - photo.					
(D/S Direction : E)									
Alignment			7						
Bank Stability		7	7						
HWM (m below Top of Curb)				HWM not visible.					
Drift (Y/N) No									
Slope Protection			3	Severe erosion gullies at hslp & beside wingwalls.					
(Type:)									
Guidebank/Spurs		X	Х						
Adequacy of Opening			8						
(Fish Compensation Measure 1	: NONE)								
(Fish Compensation Measure 2	: NONE)								
Channel General Rating		4	3						

Alberta Transportation

			Maintenance Recommendations	ations					
Inspector Recommendations	Year	Inspector	Inspector Comments	Department Comments	ments	F	Target Year	Est. Cost	Cat#
REPAIR/REPLACE BRIDGE RAIL	2011	Recast co	Recast concrete posts.						
GALVANIZE/PAINT BRIDGE RAIL	2011	Recondition	Recondition or replace rails.						
RETROFIT BRIDGE RAIL									
SEAL CURBS	2011	Rehab curb	b.						
PATCH DECK									
SEAL DECK	2011								
OVERLAY DECK	2011	Chipseal.							
REPAIR/REPLACE DECK JOINTS	2011	Seal abutr Repair/sea	Seal abutment joints. Repair/seal gap at N jnt.						
RESET/ PAINT BEARINGS	2011	Replace sl paint.	Replace sheared bearing A/Bs (4); reset & paint.						
REPAINT SUPERSTRUCTURE	2011								
STRAIGHTEN/REPLACE MEMBERS									
WASHING	2011								
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSION	2011	Install pitru erosion.	Install pitrun material - repair both headslope erosion.						
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2011	Rehab NW concrete.	Rehab NW wingwall & seal all substructure concrete.						
OTHER ACTION	2011	Reinstall h SE corner	Reinstall hazard markers to meet standard at SE corner.						
OTHER ACTION	2011	Remove silt fences	ilt fences at all corners.						
OTHER ACTION	2011	Program n	Program major rehab ASAP.						
OTHER ACTION	2011	Install app corners.	Install approach concrete down drains at all corners.						
OTHER ACTION	2011	Upgrade approach (thriebeam).	pproach guardrail to meet std						
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	50.0/44.4		Sufficiency Rating (Last/Now) 5 (%)	51.2/46.5	Est. Repl. Yr	2029	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Est	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									

Alberta Transportation

Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	16-Oct-2014	Previous Inspection Date	17-Mar-2005
Inspection Cycle (Default) (months) 39	39		
Comment			

			Maintenance Recomme	ndations						
Inspector Recommendations	Year	Inspecto	r Comments	Departme	nt Co	mments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2011	Recast c	oncrete posts.	Completed	d 201	1				
GALVANIZE/PAINT BRIDGE RAIL	2011	Recondit	ion or replace rails.	Some repl	laced	2011				
RETROFIT BRIDGE RAIL										
SEAL CURBS	2011	Rehab cı	urb.	Defer until	repla	cement				
PATCH DECK										
SEAL DECK	2011									
OVERLAY DECK	2011	Chipseal	•	To operati	ons					
REPAIR/REPLACE DECK JOINTS	2011		tment joints. eal gap at N jnt.	South Koo	h Joir	nt repaired 2011				
RESET/ PAINT BEARINGS	2011	Replace paint.	sheared bearing A/Bs (4); reset &	Defer until	repla	acement				
REPAINT SUPERSTRUCTURE	2011									
STRAIGHTEN/REPLACE MEMBERS										
WASHING	2011									
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	2011	Install pit erosion.	run material - repair both headslope	Defer until	repla	acement				
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2011	Rehab N concrete	W wingwall & seal all substructure	Defer until	repla	acement				
OTHER ACTION	2011	Reinstall SE corne	hazard markers to meet standard a	t To operati	ons					
OTHER ACTION	2011	Remove	silt fences at all corners.	Next time	on sit	е				
OTHER ACTION	2011	Program	major rehab ASAP.	Defer until	repla	cement				
OTHER ACTION	2011	Install ap	proach concrete down drains at all	Defer until	repla	acement				
OTHER ACTION	2011	Upgrade (thriebea	approach guardrail to meet std m).	To operati	ons					
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/44	.4	Sufficiency Rating (Last/Now) (%)	51.2/46.5		Est. Repl. Yr	2029	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	•			Departme Comments	nt T	entatively program	med to	be replaced in 2	022. AS	
Maintenance Reviewed By And	rew Smikle	es		Date	2	2-Aug-2012		Estimated Total	ıl O	

Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	16-Oct-2014	Previous Inspection Date	17-Mar-2005
Inspection Cycle (Default) (months)	39		
Comment			