								Bridge I	nsp	ection						
Bridge File Num	ber	75118 -1 Bridge								Form Type			CON			
Year Built/Year									Lo	Lot No.			1			
Supstr									Ins	Inspector Name			Eric Carcoux			
Bridge or Town Name ATHABASCA									Inspector Class			BR CLS A				
Located Over 813:02 R1 0.000									Assistant Name							
Located On 55:10 C1 0.702									Assistant Class							
Water Body CI./										Inspection Date			13-Apr-2012			
Navigabil. Cl./Ye									Da	Data Entry By			Theresa Lacusta			
Legal Land Location SW SEC 21 TWF										Data Entry Date			30-Apr-2012			
,				30, 54:43:19						Reviewer Name			Arnold Assenheimer			
Road Authority Alberta Tran				ansporta	ation (Al	T)			Re	Review Date			30-Apr-2012			
Contract Main. A		-	A10						De	pt. Revi	ewer N	lame	Brent Herricl	<		
Clear Roadway/	Skew			leg. (LHI	F)				De	pt. Revi	ew Dat	te	04-May-2012	2		
AADT/Year			00 / 20	` '					Fo	llow-Up	Ву					
Road Classificat			U-211.	8-110					-	-						
Detour Length (k	<u> </u>	5	1			1										
Allowable Load (	t): Sin	igle	CS1 :					S2 56 ECK			Train		3 79 CK		> On Critical Spans >Critical Member	
Design Loading:			HS20		DECK				DE			-		> Primary Span		
Doorgin Loading.			11020				Po	ostina	nfor	mation					> i iiiiai y	Орин
Required Vert. C	learan	nce P	Postina	ı (m)	UNDEF	R: 813 I										
Posted Vertical (				, , ,	Yes			-								
	NB		`	dge (m)		In Adva	ance	(Y/N)	Yes	Yes Lane SB C			On Bridge (m) In Advance (Y/N)			e (Y/N)
Remarks	One v			• ,	nd requi			, ,					3-( )			
Required Load F					Single					Semi			Truc		k Train	
Posted Loading	<u>_</u>	( )			Single					Semi				Truck Train		
Posted:	Lane		EB		At Junction (Y/N)			No		In Advance		Y/N)	No			No
Posted:	Lane		WB	At Junction (						In Advance (Y/N)			No		ridge (Y/N)	No
Remarks Not required.					(1)	, <u>,</u>	1.10		11111111111	(	<u>.,,</u>	1110		13.90 (1711)	1.10	
Hazard Marker At Bridge (Y/N) No																
Remarks Not required.																
Other Sign Types Information, War				rning.												
3 71					,	9	Ut	tilities (	Loca	ated at)						
Utility Attachmer	nts									·						
Telephone	North.								Ga	ıs						
Power	4 wire	s 20	m Nor	th, stree	t lighting	J.				Municipal Street		et lighting @ each end, water 50m N.				
Others	Powe	r line	diago	na pver	bridge N	NE-SW	E-SW.			Problem (Y/N) No						
Remarks	Geode	etic E	3M @	SE corn	er #67A	1366.	Slope	e indica	tors	North &	South	of bri	dge.			
								Appro	ach l	Road						
							Last	Now	Ex	Explanation of Condition						
Horizontal Alignr	ment						5	5		Curve to east. 50 kph urban section. Fairly steep grade, rising to east.						
Vertical Alignme							6	6	га	iiiy Stee	p grade	z, 11SI	ig to east.			
Roadway Width (m) 10.000																
Approach Bump							6	6	$\perp$							
Guardrail (Y/N) Yes							Ins	ufficient	length	/post	spacing.	00th -	uttoobod to ===	ropot Flores		
Guardrail					4	3	7.6m TD @ NW; 32.0m TD @ SW, both attached to parapet. Flared terminal end @ NE & SE, 15.4m each corner. Not attached to									
Length (m)				7.600					parapet.							
Current Standa		N)		No					Cracked posts (2) @ SE.							
Termination Ty	/ре			Termina	al					NW rail folded, post broken.						
Drainage							3	3	Dra	ain troug	gh @ S	W cra	acked and bro	ken,	exposing reb	arphoto
Approach Road	l Gene	eral F	Rating				5	5								

					Supers	tructure						
Bridge Component				Last		Explanation of Condition						
(Primary Span : CS, 3 Spar	ıs, Len	gths(n	ո)։ 11-11-11, <i>և</i>	<b>A-Ident</b>	Numb	er: )						
Special Features												
Special Feature				N	N	(Under road.)						
(Type : LONGIT TIMB ST	RUT)											
Special Feature					Х							
(Type:)												
Wearing Surface/Deck Top	Detail F	Ratings	;									
N (%)	1 (%)		2 (%)	3 (%)								
Last												
Now												
Wearing Surface				6	6	Map cracking						
(Material Type : ACP - CC	NVEN	TIONA	L CHIP SEAL	COAT	Γ)							
(Thickness(mm) : 50)					,							
Deck Top				N	N							
_ 50 op				.,	ļ.,							
Deck Rideability				6	6							
Deck Joints				3	3	Jammed tight. Filled with tar & dirt. East abutment joint gouged & lifted slightly, joint uneven - photos.						
Temperature (deg. C)	3	3				- priotos.						
(Expansion Type : )						Sections of steel angle missing.						
(Fixed Type : BUFFER AI	NGLES	5)				- Cooking of stock angle infloating.						
Gap Size (mm)			ocation									
25		East a	butment									
0		West	abutment									
Deck Drainage				4	4	Leaking through deck causing staining and cracking at deck						
Drains Clogged (Y/N)					_	underside.						
Curbs/Median					3	Medium scale on South curb face. North curb face losing section in						
(Curb Type : Standard)						several spots, delam cracks. Curb at SW & SE parapet severly scaled parapets, outside of curb units damaged by salt.						
Scaling (Percent Area)	3	30										
D:1 D:1						Curb tops covered by gravel.						
Bridge Rail		0N 0T	4 N D A D D D A	5	5	Steel channel type. Rail is wavy due to movement of the structure.						
(Type : GALVANIZED ST	EEL N	ON-S1	ANDARD RA	Τ΄		Missing nut on one post A/B in North rail. Spalled South curb under 1						
Bridge Rail Posts			A I \/A \  7FB	3	3	post compromised anchor integrity - photo.						
(Type : GALVANIZED PC STEEL)	08181	EEL;G	ALVANIZED	POST		70% rusted, no pitting, paint flaking.						
Bridge Rail/Posts Coating				4	4							
(Type : <b>PAINT</b> )												
Sidewalk				Х	Х							
					L							
Girders				Х	Х							
Diaphragms/Cross Frame				Х	Х							
Bearings				4	4	Superstructure cast onto piers cracked due to pier movement, typical						
Temperature (deg. C)	3	3				at both piers - photo. Spalled deck U/S @ SE abutment corner affecting bearing surface area - photo.						
(Expansion Type : )						,						
(Fixed Type : )												
Coating Adequate (Y/N)												
Functioning (Y/N)												
Deck Underside				3	3	High load damage to bottom corner of South side. Diagonal crack on						
Stains (Percent Area)	2	20				all 3 spans. Spall South edge of West span. Staining at cracks.						
	2	20				all 3 spans. Spall South edge of West span. Staining at cracks.						

			Supers	tructure					
Bridge Component		Last	<u> </u>	Explanation of Condition					
(Primary Span : CS, 3 Spans, Le	engths(m): 11-11-11, <i>A</i>			· •					
Span Alignment Problems	<u> </u>								
Vertical (Y/N)	Yes			Appears to be twisting due to skew.					
Horizontal (Y/N)	Yes			Wavy due to pier movements(unstable banks of Athabasca River Valley.)					
Superstructure General Rating		3	3						
			Subst	ructure					
Bridge Component		Last	Now	Explanation of Condition					
Abutments		1	1						
Bearing Seats		4	4	A1 has 1.5 x 0.2m spall near cl.					
Backwalls/Breastwalls		Х	X						
Wingwalls		4	4	Medium scaling on wingwalls.					
Piles		N	N						
Paint/Coating		Х	Х						
Abutment Stability		4	4	Concrete slope protection cracking @ A1 & A2.					
Scour/Erosion		Х	Х						
Piers/Bents									
(Type : <b>PIER-COLUMN</b> )				West pier has 1.5mx0.2m spall. Wide diagonal cracks at ends -					
Bearing Seats/Caps		4	4	photo.					
(Type : <b>CONCRETE</b> )				Narrow diagonal cracking on capsphoto					
Pier Shaft/Piles		4	4	Wide transverse cracks on columns near bottom - photo.					
Nose Plate		Х	Х						
Paint/Coating		Х	Х	Grafitti on piers.					
(Colour Description : )									
(Colour Code : )									
Pier Stability		3 3		Movements causing cracking. 25mm gap forming between top of cap at pier 2 and deck underside transverse cracking in face of P2 suggests pier is bending.					
Scour		Х	Х	3 222 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Debris (Y/N)	No								
Substructure General Rating		3	3						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		5	5	Sharp curve to South, poor sight distance. 50 kph urban sectionone way traffic.					
Traffic Safety Features		Х	Х						
Туре	None								
Slope Protection		4	4	Cracking in concrete slope protection.					
(Type : CONCRETE; CONCRE	ETE)								
Bank Stability		4	4	Both slope protection crushing against piers. Banks movement causing distress in structure - photo.					
Drainage		5	5	Drain troughs filled with sand & gravel.					
				1					

Structure Usage										
	Las	t Now	Explanation of Condition							
Grade Separation General Ratir	ng 4	4								

					Maintena	ance Recommend	ations						
Inspector Recommendations			Year Inspector Comments				Department Co	mmen		Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL													
GALVANIZE/PAINT BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS													
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLACE DECK JOINTS													
RESET/ PAINT BEARINGS													
WASHING													
SHOTCRETE RE	PAIRS												
REPAIR ABUTME	ENT SCOUR/EROSI	ON											
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT	ACCUMULATION												
OTHER ACTION			2012	Revise in	nspection schedule to	o 12 month cycle.							
OTHER ACTION			2012	Remove 150mm f	concrete headslope rom pier (to relieve p	protection for pressure)							
OTHER ACTION			2012	Confirm s assess bidone)	schedule for replace oridge for proper repa	ment and/or air strategy. (If not							
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			33.3/33.3 Sufficiency Rating (Last/N (%)				35.2/31.3	Est	t. Repl. Yr	2014	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	gs. Brid cement 006. Co unless co	dge was s within 2 y	scheduled years then or inspect @ worsens.	8). Monitor all repairs for replacement in 2 review strategies fo @ current 21 month o	2006. If not or the	Department Comments							
Maintananaa Day	iaura d Du						Dete				Cationata d Tata	1 0	
Maintenance Rev	<u> </u>						Date				Estimated Total	1 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Eric C		Eric Ca	arcoux			Previous	ious Assistant's Name						
Next Inspection D		13-Jan				i	us Inspection Date 01-Jun-2010						
Inspection Cycle		21				1.101.000							
Comment													