Bridge Inspection																
Bridge File Numbe	er 7	r 77389 W-2 Bridge						Foi	Form Type			PSR				
Year Built/Year Supstr	1	1974/1974							No.			1 Wada Nagaiana				
Bridge or Town Name KAPASIWIN									Inspector Name			Wade Nanninga				
Located Over									Inspector Class			BR CLS A				
Located On 16:12 L1 38.409						-			Assistant Name							
Water Body Cl./Year									Assistant Class							
Navigabil. Cl./Yea									Inspection Date			09-Aug-2012	2			
		SE SEC 1	I O TIMP	F2 DCE	2 \\/			Da	, ,			Lisa Fairhurst				
Legal Land Location					3 VVOIVI			Da	Data Entry Date			23-Aug-2012				
Longitude, Latitude -114:25:11, 53:34:13					<b></b> \			Re	viewer N	Name		Eric Carcoux	<			
Road Authority Alberta Transportation (AIT)					1)	Review Date 2					21-Aug-2012					
Contract Main. Are		CMA11						De	pt. Revi	ewer l	Name	Brent Herric	k			
Clear Roadway/Sk		2.2 /				Dept. Review Date				30-Aug-2012	2					
AADT/Year		,920 / 20						- Fol	llow-Up	Ву						
Road Classificatio		RAD-412.	.4-120					_								
Detour Length (km					1_											
Allowable Load (t)	: Singl	le CS1	28		Semi	CS2 49				Train	CS	63 62		> On Critic	cal Spai	าร
Design Loading:		HS25	5											> Primary		
Design Loading.		11020				Po	sting	Infor	mation					> 1 Tilliary	Орап	
Required Vert. Cle	earance	e Postino	g (m)	UNDEF	R: 25137											
Posted Vertical Cl			, ,	Yes												
	NB		dge (m)		In Advan	ce (	Y/N)	No	Lane	SB	(	On Bridge (m)	5.2	In Advance (Y/N)		Yes
		for NBL			minavam	) 00	1711)	1110	Lano	00		on Bridge (iii)	0.2	minavanoo	(1/14)	100
Required Load Po			10 011 77			Semi Truck Train										
Posted Loading (t)		.,		Single				Semi				Truck Train				
		ЕВ		Single			/N1)		In Advance (Y/N)			At Bridge (Y/N)				
	ane			At Junction (Y/N)		_	No				` '		At Bridge (Y/N)		NIa	
	ane					(1/IN) INO			In Advance (Y/N) No At B			At Bi	riage (Y/N)	No		
	lot requ															
Hazard Marker At	Briage	e (Y/N)	No													
Remarks			Not req													
Other Sign Types			werge,	Informat	tion.	1174	114100	(1.000	4-d-4\							
Litility Attachments						Uti	lities	(LOC	ited at)							
Utility Attachments		<i>l</i>						0-								
•	South r/							Ga								
		North r/v			- lin - 45	-0	C =4h		inicipal	//N I)	NI-					
	seodeti	ic otti @	ın⊏, tran	5111155101	n line ~45	oum	South	ı.   Pro	noiem (Y	/IN)	No					
Remarks							Appro	ach F	Poad—							
					Ls	ıst	Now			n of (	Cond	ition				
Horizontal Alignme	ent					7	7		Typical overpass crest curve with on/off ramps. Crack over joint @ both abutments on ACP.							
Vertical Alignment						6	6	Cra	ack over	joint	@ bo	th abutments	on AC	P.		
Roadway Width (n			12.400			J	_ 0	\//i/	Wide cracks end of approach slabs - photo.							
Approach Bump	. 1)		12.700			4	4	7 7 10	ac crack	o enu	οι αμ	Prodon slans	Prior			
			Vec			_	4	FIA	vheam	Incuff	icent	post/spacing.				
Guardrail (Y/N) Yes					4	4	Da	maged p	oosts	(2) @	NE & missing	rail b	oolt.			
Guardrail			01 200			4	4		- '							
Length (m) 91.200																
Current Standard (Y/N) No																
Termination Typ	е		Turned	DOMU		1	4	D		'	05 5: 14	Voot win"	acu!	a b object *	of co:-:	roto
Drainage						4	4		ainage ri pe prote			Vest wingwall	gettin	g benind top (	oi conci	есе
Approach Road (	Genera	al Rating	1			6	6									

Superstructure											
Bridge Comp	onent			_		Explanation of Condition					
(Primary Spar	n : <b>RD, 3 Spa</b> ı	ns, Lengths	m): 9.1-18.3-9	.1, A-Id	ent Nu	mber: )					
Special Feat	ures										
Special Featu	ıre				Х						
(Type:)				_	_						
Special Featu	ire				X						
(Type : )											
Wearing Surfa	ace/Deck Top	Detail Rating	IS								
	N (%)	1 (%)	2 (%)	3 (%)							
Last											
Now	0.0	0.0	0.0	C	0.0						
Wearing Surfa	ace			4 4		Random cracking reflecting through the seal coat. Losing aggragate					
(Material Ty	pe : <b>ACP - C</b> (	ONVENTION	AL CHIP SEAL	COA1	Γ)	in wheelpaths.					
(Thickness(	mm) : <b>50</b> )										
Lateral Conne (Y/N)	ection Problem	n No									
Deck Top				N	N						
Deck Rideabi	lity			6	6	Slight bump at pier joints.					
Deck Joints				3	3	Both abutment leaking/staining. Missing 1 bolt @ curb cover plate for					
Temperatur	e (deg. C)	26				west pier, north end - photo. 1.5m longitudinal crack on P2 paving lip Torn pier seals repaired.					
(Expansion	Type : <b>GLAN</b>	D (WABO-M	AUER, TRANS	FLEX,	ETC))						
(Fixed Type	:)										
Gap Size (n	nm)	Gap	Location								
74		W. p	ier								
65	65 E. pier										
Deck Drainag	е	'		4	4	Rust stains at abutment caps and delam cracks at pier caps also afffected by leakage.					
Drains Clog	ged (Y/N)					ашестей ру теакауе.					
Curbs/Median	1			5	4	Spall in North curb near pier 1, 100 x 150. Transverse cracking.					
(Curb Type	: Standard)					Delam crack outside ost #2 SW corner.					
Scaling (Pe	rcent Area)	5									
Bridge Rail				7	7	6th post from SW, hole rusted through near base. 10% of A/B have					
(Type : GAI	LVANIZED ST	EEL BRIDG	E TUBE)			insufficient thread. Grout pads deteriorating.					
Bridge Rail Po	osts			4	4						
(Type : GAI STEEL)	LVANIZED PO	OST STEEL;	GALVANIZED	POST	_	Base plate corroding.					
Bridge Rail/Po	osts Coating			4	4						
(Type : GAI	_VANIZED)										
Sidewalk					Х	Minor HLD to G11S2					
Girder Detail Ratings											
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last					3						
Now	0	0	0		4						
Girders				3	3	Small rust spots from rebar chairs coming through the concrete of					
Cracking (Y	/N)	Yes				girders, all near pier ends. Rust staining & longitudinal crack @ G2/S3 abutment end - photo. G3/S2 light delam @ East pier. Outside face of G1/SP1 spalled due to insufficient cover over stirrups - photo. SP3 & SP1 near abutment narrow intermittent long cracks G2-G9					
Spalling (Pe	ercent Area)	1									
(Number Of G	Girders : 33)										

Superstructure											
Bridge Component		Last		Explanation of Condition							
(Primary Span : RD, 3 Spans, L	engths(m): 9.1-18.3-9.	1, A-ld									
Diaphragms/Cross Frame		Х	Х								
Bearings		7	7								
Temperature (deg. C)	18		,								
(Expansion Type : REINFORC											
(Fixed Type : )	DED I AD BEARING)										
Coating Adequate (Y/N)											
Functioning (Y/N)	Yes										
Deck Underside	100	5	Х	See girder rating							
Stains (Percent Area)				oee girder fatting							
Span Alignment Problems	<u> </u>										
Vertical (Y/N)	No			Girders not centered over pier caps - photo.							
Horizontal (Y/N)	Yes			Gliders not centered over pier caps - prioto.							
1		2									
Superstructure General Rating	g	3	3								
			Subst	ructure							
Bridge Component		Last	Now	Explanation of Condition							
Abutments											
Bearing Seats/Caps		5	5	Stained by leaking joint above. Narrow cracks @ 1m spacing with							
(Type : <b>CONCRETE</b> )				rust staining.							
Backwalls/Breastwalls		5	5								
Wingwalls		4	5								
Piles		N	N								
Paint/Coating		5	5								
Abutment Stability		6	6								
Scour/Erosion		4	4	Drains along West wingwall & gets under slope protection. Seepage at abutment joints may be irritant as well. Wide cracks in headslope concrete protection.							
Piers/Bents											
(Type : PIER-COLUMN)				Delam cracks both piers. Staining from deck drainage. Wide crack by							
Bearing Seats/Caps		4	4	pile 2 on pier 2. Narrow cracks at other locations.							
(Type : CONCRETE)											
(Total Number of Bearing Piles :	7:7)										
Pier Shaft/Piles		7	7								
Bracing/Struts/Sheathing		Х	Х								
Nose Plate		Х	Х								
Paint/Coating		4	4	Paint is chalky. Superficial rust on 5%.							
(Colour Description : )				Green.							
(Colour Code : )											
Pier Stability		5	5	Slope protection buckled against pier columns, both piers.							
Scour		Х	Х								
Debris (Y/N)	No										
Substructure General Rating		4	4								

Structure Usage										
		Last	Now	Explanation of Condition						
Grade Separation										
Road Alignment			8							
Traffic Safety Features			X							
Туре	None									
Slope Protection		4	4	Slope protection tight against piling with 200mm gap on down side.						
(Type : CONCRETE; CONCRE	ETE)		Sliding, gaps around piles. East slope protection down 180mm out 110, & West slope protection down 20mm out 110. Slope protection buckling bottom 2 sections on West side. (No movement of slope protection since 14/June/2005.							
Bank Stability		5	5							
Drainage		6	5	Ponding at toe.						
Grade Separation General Rati	ng	4	4							

Bridge Inspection & Maintenance System (Web 2005)

					Maintenar	nce Recommend	ations					
Inspector Recommendations			Year	Inspecto	or Comments		Department Com	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			2012	Replace	missing cover plate b	olt.						
RESET/ PAINT BEARINGS												
WASHING												
SHOTCRETE REPA	IRS											
REPAIR ABUTMENT SCOUR/EROSION			2012	slope pr	drainage to prevent und otection. Seal gap beto e slope protection/brea	ween top of						
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT AC	CUMULATION											
OTHER ACTION			2012	Assess (	girders for repairs or re e)	eplacement.(if						
OTHER ACTION			2012	Replace posts @	e missing approach rail ! NE.	l bolt & damaged						
OTHER ACTION			2012	Patch cu	urb @ SW under post	#2						
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			38.9/38	Sufficiency Rating (Last) (%)			47.3/47.3	Est. Repl. Yr	2023	Maint. Red	ąd. (Υ/N)	Yes
Special M Comments for Next Inspection	acking.				Department Comments							
Maintenance Review	red By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program	(Y/N)											
Proposed Action												
Previous Inspector's Name Kris		Kris Bo	sters			Previous A	revious Assistant's Name					
		09-May				i	Previous Inspection Date 06-Oct-2010					
-		21	·									
Comment												