							Br	idge Ir	nspection							
Bridge File Nu	File Number 77471 -1 Bridge								Form Type			PSR PCS	PSR PCS			
Year Built/Yea	r Built/Year 1975/1975						Lot No.				2					
Supstr	pstr								Inspector Name			Wade Na	Wade Nanninga			
Located Over MARTEN CREEK, 8.11.80.34, ST									Inspector Class			BR CLS	A			
Located Over MARTEN CREEK, 8.11.80.34, V ST Located On 88:02 C1 33.579							ΓER	CRS-	Assistant Name							
Located On 88:02 C1 33.579									Assistant Class							
Water Body Cl./Year									Inspection Date			27-Mar-2	2013			
Navigabil. Cl./Year									Data Entry By			Theresa	Lacusta			
Legal Land Lo		NE	SEC 2	29 TWP	75 RGE 6	6 W5M			Data Entry Date			16-Apr-2	013			
Longitude, Latitude -114:53:34, 55:31:56									Reviewe	r Nam	е	Eric Card	coux			
Road Authority					ation (AIT	.) .)			Review D	Date		11-Apr-2	013			
Contract Main.		CM			(/			Dept. Re	viewe	r Nam	e Brent He	rrick			
Clear Roadwa		11/							Dept. Re	view D	Date	23-Apr-2	013			
AADT/Year		· ·		012 (A)					Follow-U	р Ву						
Road Classific	ation			.8-110					-							
Detour Length		15							-							
Allowable Load			CS1	28		Semi	CS2 49		Train		in C	CS3 62		> On Critical Spans		
Design Loadin	a.		HS2	5									>Critical Member > Primary Span			
	y.		11323	0			Pos	sting k	nformatio	n						
Required Load	Posting	n (t)			Single			sung I	Sem				True	k Train		
Posted Loadin		5 (1)	v					Semi					Truck Train			
Posted:	Lane		NB	Single At Junction (`			(/N) No		In Advance (Y/N)) No	At Bridge (Y/N) No		No		
Posted:	Lane			At Junction (Y/N)				In Advance (Y/N)			At Bridge (Y/N)		No			
Remarks	_	equired			<u>, , , , , , , , , , , , , , , , , , , </u>	, 1				> (1/1N						
		-		No												
3 (· / · / · · · · · · · · · ·																
RemarksNot required.Other Sign Types"Marten Creek".																
				marter	. 0.000 .		Util	ities (I	ocated a	t)						
Utility Attachm	ents									,						
Telephone	East	r/w.							Gas							
Power									Municipal							
Others									Problem (Y/N) No							
Remarks																
							A	pproa	ch Road							
						La		Now	Explanat	tion o	f Con	dition				
Horizontal Alig	nment					-	7	7				passing up	both hills			
Vertical Alignm						(6	6								
Roadway Widt	th (m)			10.900				1	Pothole @ SE - 0.1mx0.5m							
Approach Bum	ıp					(6	4								
Guardrail (Y/N)			Yes					Collision	dama	ge SV	/ corner, 2 b	oroken po	osts & 2 dam	aged W-beai	
Guardrail							3	N	sections.	-photo)-26-J	an-2012				
Length (m)				26.200					lag f	. المس			- II 4 -			
Current Stan	dard (Y	/N)		No					Insufficie	nt leng	gtn. Sa	ame length a	all 4 corn	ers.		
Termination	Туре			Turned	Down											
Drainage							7	6								
Approach Roa	ad Gene	eral F	Rating	<u>ч</u>			6	6								
-pp: ouori itto		- ar r	.anne	2			-									

						tructure					
Bridge Comp						Explanation of Condition					
		ns, Lengths(r	n): 9.1-24.4-9.	1, A-Id	ent Nu	mber:)					
Special Feat											
Special Featu	ire				X						
(Type :)											
Special Featu	ire				X						
(Type :)											
	ace/Deck Top	Detail Rating									
	N (%)	1 (%)	2 (%)	3 (%)							
Last											
Now	10.0										
Wearing Surfa				4	4	Chipseal worn bare exposing concrete deck in a few localized areas - photo.					
COAT)	-	ETE - CONVE	NTIONAL CH	IP SEA	L	Visible crack in concrete overlay is construction joint at bridge					
(Thickness((mm) : 50)					centerline.					
Lateral Conne (Y/N)	ection Problem	n No									
Deck Top				N	N						
Deck Rideabi	lity			7	7						
Deck Joints					7						
Temperatur	Temperature (deg. C) 0										
(Expansion	Type : GLAN	D (WABO-MA	UER, TRANS	FLEX,	ETC))						
(Fixed Type	e:)										
Gap Size (n		Gap L	ocation								
60		North	pier								
60	South										
	· ·										
Deck Drainag				6	6	No drains.					
Drains Clog											
Curbs/Mediar				4	N	Spot rust staining on outside face with delams/spalls at several locations on West sidephoto -26-Jan-2012					
	: Standard)					100001013 011 11631 3106p11010 "20"Jali"2012					
Scaling (Pe	rcent Area)	5			_						
Bridge Rail				7	7	Insufficient thread extension for nuts on post anchors. (20%) post grout pads rust stained26-Jan-2012					
	LVANIZED ST	EEL BRIDGE	TUBE)			91001 paus 1031 stainteu20-0411-2012					
Bridge Rail Po				4	N						
(Type : GAI STEEL)	LVANIZED PC	OST STEEL;G	ALVANIZED	POST		Dirty.					
Bridge Rail/Po	osts Coating			6	6						
(Type : GAI	LVANIZED)										
Sidewalk				X	X						
Girder Detail	Ratings										
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last	0	0	0	· · · · · ·	5						
Now					5						

Alberta Transportation

						Supers	structure					
Bridge Com	ponent				Last	Now	Explanation of Condition					
(Primary Spa	an : RD, 3 Spa	ans, Ler	ngths(I	m): 9.1-24.4-9	9.1, A-ld	ent Nu	imber:)					
Girders					3	3	S2G2,S2G3 & S2G8 girders have wide longitudinal cracks. Wide					
Cracking (r/N)	•	Yes				spall @ end of S2G10 over South pier, also S2G1 over North pier-					
Spalling (P	ercent Area)		1				 photo. All girders have hairline to narrow cracks. 					
(Number Of (Girders : 10)						Ext. girders with 100mm sag -Level 2 girder inspection and					
							assesment completed in 2012.					
Diaphragms/	Cross Frame	•			X	X						
Deeringer						7						
Bearings					7	7						
Temperatu	• • • •		0				-					
	Type : NEO	PRENE	STRIP	BEARING)			-					
(Fixed Type	· · · ·						_					
	lequate (Y/N)		Yes				_					
Functioning			Yes									
Deck Unders					6	6	Rust stains from connector pockets. Water staining along cl of road.					
Stains (Per	/		5									
	nent Problen	ns										
Vertical (Y/	′N)		No				_					
Horizontal	(Y/N)		No									
Superstruct	ure General	Rating			3	3						
Bridge Com	nonont				Last		Structure Explanation of Condition					
(Secondary S					Lasi	NOW						
Special Feat												
Special Feat						X						
•						~						
(Type :)						V	-					
Special Feat	ure					X	-					
(Type:)		n Deteill										
	face/Deck To				0 (0()							
	N (%)	1 (%)		2 (%)	3 (%)		-					
<u>Last</u> Now	10.0						-					
Wearing Sur					4	4	Chipseal on concrete deck. Chipseal worn bare exposing deck, 5% area.					
(Material I) COAT)	ype : CONCH	REIE - C	ONVE	NTIONAL CH	IIP SEA	L						
(Thickness	(mm) : 50)						Rust staining on girder undersides from connector pockets.					
	ection Proble	em I	No									
(Y/N)												
Deck Top					N	N						
Deck Rideab	llity				7	7						
Deck Joints					5	5	Piers only, paved over at abutments.					
Bump (Y/N)		No			5						
					E	E	No drains.					
Deck Draina	•		No		5	5						
Drains Clog			No									
Curbs/Media					4	4	Wide longitudinal delam crack/spall at outside face of S3G1, due to girders jamming.					
	e : Standard)											
Scaling (Pe	ercent Area)		1									

						structure						
Bridge Component					Last	Now	Explanation of Condition					
(Secondary S	Span : VS)											
Bridge Rail					7	7	Insufficient thread extension for nuts on post anchors. 20% post					
U	LVANIZED ST		IDGE	TUBE)			grout pads rust stained26-Jan-2012					
Bridge Rail P					4	N	7					
	(Type : GALVANIZED POST STEEL;GALVANIZED I STEEL)											
Bridge Rail/P	osts Coating				7	7						
(Type : GALVANIZED)												
Sidewalk						Х						
					X							
Girder Detail	Ratings											
	N (count)	1 (count	t)	2 (count)	3 (cou	unt)						
Last	0	0		0		1						
Now						1						
Girders					3	3	Rust stains from connector pockets.					
Last Complet	e Inspection D	Date 27	'-Mar-	2013			S1G8 has wide crack @ centerline of girder (photo) S1G10 has concrete spall on edge of girder 2m from pier. S3G1 has					
Cracking (Y	Cracking (Y/N) Yes						large spall on exterior face of curb.(photo)					
	Spalling (Percent Area) 0						15/20 girders have hairline to narrow cracks on underside of girder. Level 2 girder inspection and assessment completed in 2012.					
Lift or Connec Grouted (Y/N	ctor Pocket						Level 2 grider inspection and assessment completed in 2012.					
(Number Of C	Girders : 20)											
Span Alignm	nent Problems	s										
Vertical (Y/I		No)									
Horizontal (No	5									
	<u>`````````````````````````````````````</u>	Rating			3	3						
Superstructure General Rating												
							ructure					
Bridge Com	ponent				Last	Subst Now	ructure Explanation of Condition					
Abutments					Last							
Abutments (Extended I	Backwall Piles	. ,	,		Last							
Abutments (Extended I (Extended I	Backwall Piles Backwall Piles	Spacing	, (mm)	:)	Last							
Abutments (Extended I (Extended I (Total Numbe	Backwall Piles Backwall Piles er of Caps/Cor	Spacing	, (mm))		Last							
Abutments (Extended I (Extended I (Total Numbe	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel	Spacing bels : 1:1 Is Detail F	(mm)) Rating	JS		Now						
Abutments (Extended I (Extended I (Total Numbe Bearing Seate	Backwall Piles Backwall Piles er of Caps/Cor	Spacing	(mm)) Rating		Last 3 (cou	Now						
Abutments (Extended I (Extended I (Total Numbe Bearing Seats	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel	Spacing bels : 1:1 Is Detail F	(mm)) Rating	JS		Now						
Abutments (Extended I (Extended I (Total Numbe Bearing Seats Last Now	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count)	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Rating	JS	3 (cou	Now unt)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Numbe Bearing Seats Last Now Bearing Seats	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Rating	JS		Now	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : CO	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Rating	JS	3 (cou	Now unt)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Numbe Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm	Backwall Piles Backwall Piles or of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Rating	JS	3 (cou	Now unt)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Numbe Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm))	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Rating	JS	3 (cou 6	Now unt)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bru	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :)	s Spacing bels : 1:1 Is Detail F 1 (count Is	(mm)) Ratinc t)	JS	3 (cou	Now unt)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Brook	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :)	Spacing bels : 1:1 ls Detail F 1 (count	(mm)) Ratinc t)	JS	3 (cou 6	Now JINT)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bru	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :)	Spacing bels : 1:1 Is Detail F 1 (count Is	(mm)) Ratinc t)	JS	3 (cou 6	Now JINT)	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bro Greatest He Wingwalls	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :)	Spacing bels : 1:1 Is Detail F 1 (count Is Is	(mm)) Rating t) 50	JS	3 (cou 6	Now 	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bro Greatest He Wingwalls	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :) eastwalls eight (m) er of Bearing F tatings	Spacing bels : 1:1 Is Detail F 1 (count Is Is	(mm)) Rating t) 50	JS	3 (cou 6	Now 	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm)) Backwalls/Brook Greatest He Wingwalls (Total Number	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :) eastwalls eight (m) er of Bearing F	Spacing bels : 1:1 Is Detail F 1 (count Is Is	(mm)) Rating t) 50	JS	3 (cou 6	Now	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm)) Backwalls/Brook Greatest He Wingwalls (Total Number	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :) eastwalls eight (m) er of Bearing F tatings	Spacing bels : 1:1 Is Detail F 1 (count Is Is 2iles : 0:0)	(mm)) Rating t) 50	js 2 (count)	3 (cou 6 X 4	Now	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bro Greatest He Wingwalls (Total Number Piles Detail R	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :)) :) eastwalls eight (m) er of Bearing F tatings N (count)	Spacing bels : 1:1 Is Detail F 1 (count Is Piles : 0:0)	(mm)) Rating t) 50	2 (count) 2 (count) 2 (count)	3 (cou 6 X 4	Now 	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bro Greatest He Wingwalls (Total Number Piles Detail R Last	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :) eastwalls eight (m) er of Bearing F tatings N (count) 1	Spacing bels : 1:1 Is Detail F 1 (count Is Piles : 0:0)	(mm)) Rating t) 50	2 (count) 2 (count) 2 (count)	3 (cou 6 X 4	Now 	Explanation of Condition					
Abutments (Extended I (Extended I (Total Number Bearing Seats Last Now Bearing Seats (Type : COI (Depth(mm) (Width(mm)) Backwalls/Bro Greatest He Wingwalls (Total Number Piles Detail R Last Now	Backwall Piles Backwall Piles er of Caps/Cor s/Caps/Corbel N (count) s/Caps/Corbel NCRETE)) :) eastwalls eight (m) er of Bearing F atings N (count) 1 1	Spacing bels : 1:1 Is Detail F 1 (count Is Piles : 0:0)	(mm)) Rating t) 50	2 (count) 2 (count) 2 (count)	3 (cou 6 X 4	Now Now N N N N N N N N N	Explanation of Condition					

Alberta Transportation

					Subst	ructure					
Bridge Com	ponent			Last	Now	Explanation of Condition					
Scour/Erosio				6	6						
Piers/Bents											
(Type : PIE	R-COLUMN)					Popout @ North pier, North face East side.					
(Total Numbe	er of Caps/Co	rbels : 1:1)				Delam cracks on bearing seat, North pier, East end. West end N. pier wide cracks on end @ bottom.					
-	•	els Detail Ratir	ngs			West end South face of N pier has 300mmx400mm delam.					
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last											
Now											
Bearing Seat	s/Caps/Corbe	els		4	4	_					
(Type : CO	NCRETE)										
(Total Numbe	er of Bearing I	Piles : 9:9)									
Piles Detail R	U]					
	N (count)	1 (count)	2 (count)	3 (cou	unt)						
Last											
Now											
Pier Shaft/Pil	es			7	7						
Greatest H	eight (m)	2.70									
Bracing/Strut	s/Sheathing			X	X						
Nose Plate				X	Х						
Paint/Coating)			7	7						
(Colour De	scription : GR	EEN)				-					
(Colour Co	de : 14090)										
Pier Stability				7	7						
Scour				5	N						
Debris (Y/N)		Yes				Couple pieces of drift.					
Substructure	e General Ra	ting		4	4						
				S	Structu	re Usage					
				Last		Explanation of Condition					
Channel											
(U/S Direction	n : E)										
(D/S Direction	n : W)										
Alignment				4	4						
Deals Ot 1 111						Gabions north side only.					
Bank Stability	/			4	4	River has eroded south bank and makes a couple sharp curves before entering bridge. NE vertical cut bank.					
HWM (m belo	ow Top of Cu	rb)				(HWM 1.6m below deck underside South span. 00/10/12)					
Drift (Y/N)		Yes				Large logs in channel.					
Slope Protect	tion			4	N	Section of gabion @ NE undermined & slide down over 15m length					
· ·	TURAL; GAB	BION)				photo Gabion mesh near waterline is corroded and coming apart for full length of protected area.(photo)-26-Jan-2012					
Guidebank/S	purs			4	N	Guide banks at NE corner covered by gabions and rock riprap- gabions sliding down slopephoto-26-Jan-2012					

Structure Usage										
	Last	Now	Explanation of Condition							
Adequacy of Opening	6	6								
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating	4	4								

					Maintenance R	ecommend	ations						
Inspector Recomm	Year	Inspecto	r Comments		Department Cor	nments			Target Year	Est. Cost	Cat #		
REPAIR/REPLAC													
GALVANIZE/PAIN													
SEAL CURBS													
PATCH DECK		2013	Patch ch	nipseal.									
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLAC	E DECK JOINTS												
RESET/ PAINT B	EARINGS												
WASHING													
SHOTCRETE RE	PAIRS												
REPAIR ABUTME	NT SCOUR/EROSIC	NC											
PLACE ADDITIO													
REMOVE DRIFT	ACCUMULATION												
OTHER ACTION		2013	1	ject cracked girders.									
OTHER ACTION		2013		juardrail, if not done.									
OTHER ACTION			2013	1	rb and wingwall spalls, if no								
OTHER ACTION			2013	Repair gabions on headslope/guidebank, if not done.									
Structural Condi (%)	tion Rating (Last/No	ow)	38.9/38.9 Sufficiency Rating (Last/Now) (%)				43.5/43.3	Est. F	Repl. Yr	2032	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder spalls Assessment of bridg	s and lor ge vurrei	ngitudina ntly unde	Il cracking erway.	of girders until replacemer	nt.	Department Comments						
Maintenance Rev	iewed By						Date			E	Estimated Total	0	
Proposed Long-T	erm Strategy												
On 3-Year Progra	m (Y/N)												
Proposed Action													
Previous Inspecto	or's Name	Shane	Hall			Previous /	us Assistant's Name						
Next Inspection D	ate	27-Dec	-2014			Previous I	s Inspection Date 26-Jan-2012						
Inspection Cycle		21				1		1					
Comment													