							Bridge lı	nspec	tion							
Bridge File Num	File Number 02430 -1 Bridge						J	Form Type				PSR				
Year Built/Year 1963/1963							Lot No.				2					
Supstr									Inspector Name			Owen Salava				
Bridge or Town Name MARKERVILLE							Inspector Class			BR CLS A						
Located Over MEDICINE RIVER, 3.88, WATER				RCR	S-ST	Assi	Assistant Name									
Located On		54:08 C	1 12.865					Assi	Assistant Class							
Water Body Cl./Year							Inspection Date			05-Nov-201	2					
Navigabil. Cl./Year									Data Entry By			Marcia Chavez				
Legal Land Location SE SEC 1			18 TMD 36 DCE 1 M5M						Data Entry Date			20-Nov-2012				
Longitude, Latitude -114:07:24			·24 52·05·10						Reviewer Name			John O'Brien				
Road Authority		Alberta	Transport	ation (Al	T)				Review Date			14-Nov-201				
Contract Main.	Area	CMA18									ame					
Clear Roadway	/Skew	9.1 / 30	deg. (RHF	=)					Dept. Reviewer Name Dept. Review Date			26-Nov-201				
AADT/Year		2,150 / 2	2011 (A)					_	w-Up			20 1407 20				
Road Classifica	ition	RAU-20	9-110] One	W-Op	Dy						
Detour Length ((km)	32														
Allowable Load	(t): Sir		1 42 RDER	Sem			S2 49 IRDER			Train		3 64 RDER	> On Cri		itical Spans Member	
Design Loading	:	HS	20											> Primary	/ Span	
				Ī		Р	osting l	nform	ation							
Required Load	Posting) (t)		Single					Semi				Truck Train			
Posted Loading	(t)			Single					Semi			Truck Train				
Posted:	Lane	EB		At June	tion (Y	/N)	No		In Adv	vance (Y/N)		No	At Bı	ridge (Y/N)	No	
Posted:	Lane	WB		At June	tion (Y	/N)	No	In Advance (Y/		//N)	No	At Bridge (Y/N)		No		
Remarks	Not re	equired.														
Hazard Marker	At Brid	ge (Y/N)	Yes													
Remarks			Too hig	h, 0.6m	offline,	1.4r	n curb to	botto	m.							
Other Sign Type	es		Creek I	D, Road	Info											
						U	tilities (l	Locate	ed at)							
Utility Attachme	nts															
Telephone	South	r/w.						Gas								
Power	4 wire	20m No	rth of c/l.					Mun	Municipal							
Others								Prob	lem (\	//N) N	No					
Remarks																
							Approa									
						Last			Explanation of Condition							
Horizontal Alignment				7	7	Inter	sectio	n to Ea	st 10	0m.						
Vertical Alignment			7	7	1											
Roadway Width (m) 12.600																
Approach Bump			8	8	1											
Guardrail (Y/N) Yes																
Guardrail			8	8												
Length (m) 45.600																
Current Standard (Y/N) Yes																
Termination Type Turned down																
Drainage					7	7	Gap	betwe	en con	crete	drains and	slope p	orotection, ok			
Approach Road General Rating				7	7											

				Supers	structure					
Bridge Component					Explanation of Condition					
(Primary Span : PO, 3 Spans, Lo	engths(r	n): 24.1-24.4-	24.1, A	-Ident	Number:)					
Special Features										
Special Feature				X						
(Type:)										
Special Feature				X						
(Type :)										
Wearing Surface/Deck Top Deta	I Ratings	S								
N (%) 1 (%)	2 (%)	3 (%)							
Last 5	0	0		0						
Now 0.0	0.0	0.0	(0.0						
Wearing Surface (Material Type : CONCRETE - COAT)	CONVE	NTIONAL CH	7 IP SEA	6 \L	Approach paving, small potholes both abut paving lips.					
(Thickness(mm) : 50) Lateral Connection Problem	No									
(Y/N) Deck Top			N	N						
Deck Rideability			7	7						
Deck Joints			5	5	Possible leakage onto P1 at teh N end.					
Temperature (deg. C)	10									
(Expansion Type : GLAND (W.	ABO-MA	UER, TRANS	SFLEX,	ETC))						
(Fixed Type : GLAND (WABO	MAUER	, TRANSFLE	X, ETC))						
Gap Size (mm)	Gap L	ocation								
62	A1 - C	Gland - Exp.								
56 P1 - Gland - Exp.										
65 P2 - Gland - Exp.										
56 A2 - Gland -										
Deck Drainage			6	6	See deck jnts.					
Drains Clogged (Y/N)	No									
Curbs/Median			3	4	Small spalls both curbs.					
(Curb Type : Standard)					Spall to underside at NW wingwall contact area.					
Scaling (Percent Area)	10									
Bridge Rail			6	6	Two vertical slats bent, minor. E pier N side, one in S3 S side near E					
(Type: GALVANIZED STEEL	VERTIC	AL BAR)			abut.					
Bridge Rail Posts (Type : GALVANIZED POST \$	STEEL;G	ALVANIZED	4 POST	6						
ŠŤÉEL)										
Bridge Rail/Posts Coating			7	7						
(Type : GALVANIZED)			Х							
Sidewalk				X						
Girder Detail Ratings										
N (count) 1 (co	N (count) 1 (count) 2 (count)		3 (cou	unt)						
Last 0 0 0				0						
Now 0	0	0		0						
Girders			6	6	Typical cracking around shoe plates. Center span not accessible due					
Cracking (Y/N) Yes					to open water. Skew pressures have cracked curbs at corners of deck.					
Spalling (Percent Area)	0									
(Number Of Girders : 15)										

			Supers	structure						
Bridge Component				Explanation of Condition						
(Primary Span : PO, 3 Spans,	Lengths(m): 24.1			•						
Diaphragms/Cross Frame	<u> </u>	7	7							
Bearings			5	Vertical cracks in pier 2 following SW & NW anchor bolts.						
Temperature (deg. C) 10										
(Expansion Type : SLIDING										
(Fixed Type : PINNED BEARING)										
Coating Adequate (Y/N)	No			Interior bearings on abuts painted.						
Functioning (Y/N)	Yes			Interior bearings on abuts painted. Outside of abuts & pier bearing rusted.						
Deck Underside		7	7							
Stains (Percent Area)	0									
Span Alignment Problems										
Vertical (Y/N)	No			The bearings are off center of masonry plates.						
Horizontal (Y/N)	No									
Superstructure General Ratio	ng	6	5							
D. L. O				ructure						
Bridge Component		Last	Now	Explanation of Condition						
Abutments Regring Secto/Cons		7	7							
Bearing Seats/Caps		1								
(Type : CONCRETE)		7	7							
Backwalls/Breastwalls		7	7							
Wingwalls		7	5	Spall at top of NE wing due to skew pressure.						
Piles		N	N							
Paint/Coating		Х	X							
Abutment Stability		7	7							
Scour/Erosion		7	7							
Piers/Bents										
(Type : PIER-SOLID)				Minor stain P2.						
Bearing Seats/Caps		6	6	N end of P1 si wet below the jnt.						
(Type : CONCRETE)										
(Total Number of Bearing Piles	s · 0·0)									
Pier Shaft/Piles	. 0.0)	6	6							
Bracing/Struts/Sheathing		X	X							
Nose Plate		7	7							
		4								
Paint/Coating			4	Minor stain P2, rust - no action.						
(Colour Description :)										
(Colour Code :)		5								
Pier Stability			5	(Plumb bob from deck points towards the west pier leaning west approx 50mm and the east pier leaning east approx 50mm. 03/03/18).						
Scour			N							
Debris (Y/N)	Debris (Y/N) No									
Substructure General Rating		5	5							

		5	re Usage	
			Now	Explanation of Condition
Channel				
(U/S Direction : N)			Parallels hwy 40m U/S.	
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				(Drift is on top of piers. 99/10/26)
Drift (Y/N)	No			
Slope Protection		5	6	Grass growing in panel gaps at E hslp.
(Type : CONCRETE; CONCRE	ETE)			
Guidebank/Spurs		7	7	Guidebank at NW corner.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating 5				

		Maintenance Reco	mmenda	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comi	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		·							
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS	2013	Patch curb spalls, 0.1m3 OH-V.							
PATCH DECK									
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS	2013	Repair P1, if required.							
RESET/ PAINT BEARINGS									
WASHING	2013	Clean & inspect jnts, P1, possible leak.							
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSIG	NC								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2013	Patch paving lip potholes.							
OTHER ACTION	2013	Set HMs to std.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	ow) 61.1/5	Sufficiency Rating (Last/Nov (%)	v) 5	1.2/48.2	Est. Repl. Yr	2033	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	,	·		Department Comments			,		
Maintenance Reviewed By				Date			Estimated Total	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava	Pr	evious A	s Assistant's Name					
Next Inspection Date	05-Aug-2014	Pr	evious li	nspection Date	12-Apr-2011				
Inspection Cycle (Default) (months)	21								
Comment									

Bridge Inspection & Maintenance System (Web 2005)