					=	Bridge I	nspe	ction						
Bridge File Number	07870 -1	Bridge						Form Type		PSR				
Year Built/Year	1976/197							Lot No.			2			
Supstr							Insi	pector N	Name		Tom Carey			
Bridge or Town Name	CARSEL	AND						Inspector Class			BR CLS A			
Located Over LOCAL ROAD;BOW RIVER, 2.13 WATERCRS-ST					3,			Assistant Name			DIC GLO /			
Located On 24:04 C1 0.013							Ass	sistant (Class					
Water Body Cl./Year							Ins	Inspection Date 2			21-Feb-2013			
Navigabil. Cl./Year							Dat	Data Entry By			Anne Robert	s		
Legal Land Location							Dat	Data Entry Date			19-Mar-2013			
Longitude, Latitude -113:25:10, 50:49:49							Rev	Reviewer Name			Garry Roberts			
Road Authority		ransporta		T)			Rev	Review Date		03-Mar-2013				
Contract Main. Area	CMA30		,				Dep	ot. Revi	ewer l	Name	Tim Davies			
Clear Roadway/Skew	9.8 / -10	deg. (LHI	F)				Dep	ot. Revi	ew Da	ate	25-Mar-2013			
AADT/Year	2,420 / 2	•					Foll	low-Up	Ву					
Road Classification	RAU-210													
Detour Length (km)	87													
Allowable Load (t): Sin		28		Semi	C	CS2 49			Train	cs	S3 62		> On Critical Spans	
													>Critical Member	
Design Loading:	HS2	25											> Primary	Span
					Po	osting	Inform	nation						
Required Vert. Clearan		g (m)												
Posted Vertical Clearar			Yes											
Posted: Lane EB		ridge (m)		In Adv	ance	(Y/N)	Yes	Lane	WB	0	n Bridge (m) 4.3		In Advance	(Y/N) No
Remarks No V.0	C sign on dvance V	bridge E/ C sign is	/B. s missing	j .										
Required Load Posting	(t)		Single					Semi Truc			Truck	k Train		
Posted Loading (t)	Single							Semi			Truck Train			
Posted: Lane	NB		At June	ction (Y	n (Y/N) N			In Adv	ance	(Y/N) No		At Bridge (Y/N)		No
Posted: Lane	SB		At June	ction (Y	n (Y/N) No			In Advance ((Y/N)	At Br		idge (Y/N)	No
Remarks Not Re	equired													
Hazard Marker At Bridg	ge (Y/N)	Yes												
Remarks														
Other Sign Types		Trucks	crossing	, River	· ID, c	urve, b	ridge	ices.						
						ilities (Loca	ted at)						
		NE UTILI	TIES-PF	IONE I	LINE				1					
Telephone East s							Gas							
	le - 3 wire	25m fror	n c.l.					nicipal						
Others							Pro	blem (\	(/N)	No				
Remarks						Α								
					Last	Appro: Now			on of t	Condi	ion			
Horizontal Alignment					Last 5	5		Explanation of Condition Curves both ends.						
Vertical Alignment						5		Curves both ends. Hills both ends.						
Vertical Alignment				3	3									
Roadway Width (m) 14.300														
Approach Bump					5	5								
Guardrail (Y/N)		Yes						tial wel		olice at	NW.			
Guardrail					3	4		: Thrieb roken p		SE				
Length (m)		87.000						r						
Current Standard (Y/	N)	No												
Termination Type TURNED DOWN														

					Approa	ch Road				
				Last	Now	Explanation of Condition				
Drainage				7	7					
Approach Ro	oad General F	Rating		5	5					
					Superc	tructuro				
Bridge Comp	onent					Explanation of Condition				
		s. I enaths(m	n): 38.1-38.1-3			, A-Ident Number:)				
Special Featu		.c, _cgc(.,							
Special Featu					5	Dwydag bar lateral stressing.				
(Type : EXT	LATER POS	T TENS)				Ped. rail at west.				
Special Featu	re	·		5						
(Type:)										
Wearing Surfa	ace/Deck Top	Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)						
Last	0	0	0		0					
Now	0.0	0.0	0.0	C	0.0					
Wearing Surfa	ace			4	4	Chip coat on epoxy overlay 20mm total thickness.				
(Material Ty	pe : CONCRE	TE - CONVE	NTIONAL CHI	P SEA	L	Longitudinal cracks				
(Thickness(mm) : 50)					50% of S/B lane has no chip seal - S1, S2 and S4 are the worst.				
Lateral Conne (Y/N)	ection Problem	Yes								
Deck Top				N	N					
Deck Rideabil	lity			6	6					
Deck Joints				3	3	Trough @ backwall @ S abut too short				
Temperature (deg. C) -2						drains on side of abut. Gravel in joints.				
TRÂNSFLE	X, ETC))	R PLATES;G	LAND (WABC	D-MAU	ER,	2500 mm Paving lips broken P2 NB & SB (4 broken finger welds at abut.1) 1 broken at A1 NB lane seen 2013. 2 broken finger welds at A2 NB.				
(Fixed Type	•					P4 joint 90% covered in concrete repair.				
Gap Size (m	nm)		ocation			Abut. fingers gravel filled. 700 mm paving lip broken at P3 NB and 200 mm SB.				
130		2 abut								
50		4 pier				_				
90		3 pier								
55		2 pier								
85 60		1 pier 1 abut				-				
Deck Drainag	Α	i abut		4	4	No deck drains. Bridge on grade.				
Drains Clog				-						
				_		Trough @ abut deck joints are short and drains on abut.				
Curbs/Median				5	5	Isolated surface spalls - minor				
	: Standard)									
Scaling (Per	rcent Area)	2								
Bridge Rail	VANUTED CE	'EEL DD'D -	TUDE	4	4	Steel Veritical bar pedestrian rail @ West				
(Type : GALVANIZED STEEL BRIDGE TUBE)						21 A/B with insufficient thread at nuts-All but one at East side.				
Bridge Rail Po		NOT OTER: O	A I \/ A \ II =	4	4	Isolated scrapes and corrosion.				
ŠŤĖEL)						29 splice bolts missing in rails.				
Bridge Rail/Po				4	4					
(Type : GAL	_VANIZED)									
Sidewalk				N	N	(EPOXY OVERLAYED - 10% abraded off) 90% covered in gravel.				
					_					

					Supers	structure
Bridge Com	ponent				Now	Explanation of Condition
		ıns, Lengths(m): 38.1-38.1			, A-Ident Number:)
Girder Detail		· · ·				
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	0	0	0		0	
Now	0	0	0		0	
Girders				4	4	Vertical cracks at girder ends at P2E - all others patched.
Cracking (\	Y/N)	Yes				Wide vertical crack in end of North East. Typical chamfer cracks & med width
Spalling (P	ercent Area)	0				long cracks @ bottoms of webs @ S-1&5
(Number Of 0	Girders : 35)					
Diaphragms/	Cross Frame			8	8	
Bearings				5	5	Neoprene pad 30mm past stainless steel & teflon debonding @ E
Temperatu	re (deg. C)	-2				bearing @ N abut - Same as previous insp Still functional
TEFLON A	ND STAINLE	ESS STEEL)	OPRENE BEA	RING V	VITH	
		CED PAD BE	ARING)			
	lequate (Y/N)					
Functioning	g (Y/N)	Yes			_	
Deck Unders				7	7	All spans seen from ice.
Stains (Per		0				
	nent Problem					
Vertical (Y/		No				
Horizontal	· /	No				
Superstruct	ure General	Rating		4	4	
						ructure
Bridge Com Abutments	ponent			Last	Now	Explanation of Condition
Bearing Seat	te/Cane			7	7	
(Type : CO	·				,	
Backwalls/Br				7	7	
Wingwalls				7	7	
Piles				N	N	
Paint/Coating				4	4	Peeling at abut.1 is graffiti covered.
Abutment Sta				9	9	
Scour/Erosio				6	6	
Piers/Bents						
(Type : PIE	R-SOLID)					
Bearing Seat				5	5	
(Type : CO	<u> </u>			, 0		
		Piles : 0:0:0:))			Pier2 has a vertical crack in the
Pier Shaft/Pil				7	7	pier - this goes from water to top 2mm wide.
Bracing/Strut				X	Х	
Nose Plate				7	7	
Paint/Coating	g			4	4	Galvanized nose plates.
	scription : SIL	· · · · · · · · · · · · · · · · · · ·				Pigmented sealer at pier shafts is peeling Worst at P1
(Colour Co	de : SILVER)					

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	Explanation of condition
. i.e. Giasimi,				
Scour		N	N	iced over.
Debris (Y/N)	No			
Substructure General Rating		5	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)	6.0			Minor drift
Drift (Y/N)	Yes			Trees at North abut bank.
Slope Protection		7	7	Concrete at North
(Type : CONCRETE; CONCRE	ETE)			Rock at South
Guidebank/Spurs		7	7	
Adequacy of Opening		7	8	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2	· · · · · · · · · · · · · · · · · · ·			
Channel General Rating	,	7	7	
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		7	7	
Туре	Guardrail			
Slope Protection		7	7	
(Type : CONCRETE; CONCRE	ETE)			
Bank Stability		6	7	
Drainage		6	7	
Grade Separation General Rati	ng	5	5	

		Maintenanc	e Recommend	ations					
nspector Recommendations Year Inspector Comments				Department Com	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	GE RAIL 2014 Install missing splice bolts -29 Some require drilling of splice to								
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS									
PATCH DECK	2014	Chipseal entire SBL							
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS		Weld finger at A1 & A2- if not do weld. Patch paving lips at P2 and P3.	one, wash and						
RESET/ PAINT BEARINGS									
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROS	SION								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2013	Install 4.3 advance vertical Cl. s Sp.5. E/B sign on bridge not required west.	-						
OTHER ACTION 2		Replace gaurdrail posts at Sout	h East						
OTHER ACTION 2		Recoat S abutments and pier ex							
OTHER ACTION									
Structural Condition Rating (Last/N (%)	Now) 50.0/5	0.0 Sufficiency Rating (L (%)	ast/Now)	36.7/36.8	Est. Repl. Yr	2031	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	·			Department Comments					
Maintenance Reviewed By				Date		E	Stimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tom Carey		Previous /	Assistant's Name					
Next Inspection Date	21-Nov-2014		Previous I	us Inspection Date 19-May-2011					
Inspection Cycle (Default) (months)	21								
Comment									