					В	ridge lı	nspe	ction						
Bridge File Number	75919 S-1 Bridge						Form Type			SG				
Year Built/Year Supstr	1967/1967							Lot No.		2				
Bridge or Town Name	FORT MACLEOD						Inspector Name		Garry Roberts					
Located Over CPR								Inspector Class		BR CLS A				
Located On	2:08 L1 8	.365						Assistant Name						
Water Body Cl./Year								istant C						
Navigabil. Cl./Year								ection			23-Jan-2010			
Legal Land Location	NW SEC	30 TWP	9 RGE 2	26 W4N	Л			a Entry			Kelsey Robe			
Longitude, Latitude	-113:31:0				HIVI			Data Entry Date			27-Feb-2010			
Road Authority	Alberta T			T)				Reviewer Name		Tom Carey				
Contract Main. Area	CMA26						-	Review Date		01-Feb-2010				
Clear Roadway/Skew	13.4 / 45	deg. (RH	IF)				<u> </u>				Lorenz Bohn			
AADT/Year	5,000 / 20	•						ot. Revie		ite	02-Mar-2010			
Road Classification	RAU-211						FOII	ow-Up	ву					
Detour Length (km)	10													
Allowable Load (t): Sin	igle CS1			Semi		32 73 RDER				S3 81> RDER>		> On Critic	> On Critical Spans >Critical Member	
Design Loading:	HS2				0.1	INDER				011	(DEIX		> Primary	
					Ро	sting l	nforn	nation					, i iiiiai	• pan
Required Vert. Clearan	nce Posting	g (m)												
Posted Vertical Cleara	nce (Y/N)		No											
Posted: Lane EB				In Adva	ince (Y/N)		Lane	WB	0	n Bridge (m)		In Advance	(Y/N)
Remarks Not re	eq.													
Required Load Posting	(t)		Single				Semi				Truck Train			
Posted Loading (t)			Single	Э		Semi			Truck Train					
Posted: Lane	NB		At Junction (Y/N)			In Advance (Y/N)		(Y/N)		At Bridge (Y/N)				
Posted: Lane	SB		At Junc	tion (Y	/N)	No	In Advance (Y/N)		No	At Br	idge (Y/N)	No		
Remarks Not re	eq.													
Hazard Marker At Bridg	ge (Y/N)	No												
Remarks														
Other Sign Types		CURVE												
LICHA AM					Uti	lities (l	_oca	ted at)						
Utility Attachments														
Telephone							Gas							
Power								nicipal	/ /N I)	N.I				
Others							Pro	blem (Y	/IN)	No				
Remarks						Approa	ch P	oad						
	Las					Now	Explanation of Condition							
Horizontal Alignment				6	6	Typical crest curve over RR tracks.								
Vertical Alignment				5	5	Bĺind hill to south.								
Roadway Width (m) 13.000														
Approach Bump				6	7	1								
Guardrail (Y/N) Yes					Isol	ated mi	ssing	splice	bolts- approx	. 8 at	SW.			
Guardrail			7	4	Not	fastene	ed to h	oridaer	ail & Insuffice	nt po	sts.			
Length (m) 99.000		99.000					Not fastened to bridgerail & Insufficent posts.							
Current Standard (Y/N) No														
Termination Type TURNED DOWN			N											
Drainage					9	7								

			^	nnros	ch Road				
			Last						
Approach Road General Rating			6	5					
					structure				
				-	Explanation of Condition				
(Primary Span : RB, 3 Spans	, Lengths(r	n): 16.5-20.4	-16.5, A-	Ident	Number: A0482-01)				
Special Features									
Special Feature				X					
(Type:)				Х					
Special Feature				_ ^					
(Type :) Wearing Surface/Deck Top De	atail Bating	<u> </u>							
	(%)	2 (%)	3 (%)						
Last 0	0	0)					
Now 0.0	0.0	0.0		.0					
Wearing Surface	0.0	0.0	6	6	Transverse cracks-50% sealed				
(Material Type : ACP)			0		Transverse dracks 50 / 8 scaled				
(Thickness (mm) : 50)									
Deck Top			N	N					
Book Top				.,					
Deck Rideability			7	7					
Deck Joints			4	5	10mm vertical misalignment in travel direction not affecting plows.				
Temperature (deg. C)	-7				g r				
(Expansion Type : FINGER									
(Fixed Type : ASPHALTIC I		ARD)							
Gap Size (mm)		_ocation							
10	S. AB								
Deck Drainage			4	4	Weep tube drainage corrodes girders.				
Drains Clogged (Y/N)	No				Drainage goes under south slope protection and also corrodes bearings.				
					Drainage at south goes under slope protection.				
				No drains.					
Curbs/Median			4	5	Flexural cracks every 1.5 m w/leaching outside of curb.				
(Curb Type : Standard)					Map cracks at NE, minor break @ NW Corner				
Scaling (Percent Area)	0								
Bridge Rail			7	7					
(Type : VERTICAL BAR)					1				
Bridge Rail Posts			7	7					
(Type : GALVANIZED POS STEEL)	T STEEL;G	SALVANIZED	POST						
Bridge Rail/Posts Coating			7	5					
			,						
(Type:) Sidewalk				Х					
			X						

Bridge Component Bridge Component Condition C	Superstructure								
Girdor/Ream	Bridge Component	Last	Now	Explanation of Condition					
Cover Plate	(Primary Span: RB, 3 Spans, Lengths(m): 16.5-20.4-16.5, A	-Ident N	Number: A0482-01)					
Flange	Girder/Beam		_						
Web	Cover Plate	7	6						
Stiffeners	Flange	5	6						
Splice		6	6						
Weld	Stiffeners	X							
Diaphragms/Cross Frame									
Paint Condition		7	7						
Colour Description: Colour Code:	Diaphragms/Cross Frame	6	7						
Colour Description:	Paint Condition	3	3	WEEP TUBES DRIP ONTO BOTTOM FLANGE OF EXT. GIRDER-					
Colour Code :	(Colour Description :)								
Bearings 4 4 4 2 ANCHOR BOLTS MISSING @ SABUT 1 1/4* DIA. OTHER BOLTS ALL BENT @ S. PITTED RUST ON EXT. BEARINGS & @ ALL @ SABUT. 750% CORROSION W/ SOME PITTING-PHOTO. (Expansion Type : ROCKER BEARING) (Fixed Type : PINNED BEARING) Coating Adequate (Y/N) No Punctioning (Y/N) No Dack Underside 4 4 4 Weep tubes drip and have caused punch outs and scaling at NW. Leaching through hairline cracks especially outer sections. Skew pressure at abutment interfaces - minor. Span Alignment Problems Vertical (Y/N) No Superstructure General Rating 4 4 4 Substructure Bridge Component Last Now Abutments Bearing Seats/Caps 5 6 6 (Type : CONCRETE) Backwalls/Breastwalls 6 6 6 Wingwalls 6 6 6 Piles N N N Paint/Coating X X X Abutment Stability 5 6 6 Scour/Ferosion X 5 5 Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps 7 7 7 (Type : CONCRETE) Scour/Ferosion X 5 5 Silding conc slope protection pressure	(Colour Code :)								
Temperature (deg. C) -7 (Expansion Type : ROCKER BEARING) (Expansion Type : ROCKER BEARING) (Coating Adequate (Y/N) No Functioning (Y/N) No Deck Underside 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Touchup Required (Y/N) Yes			Orange					
Casparison Type : ROCKER BEARING)	Bearings	4	4	2 ANCHOR BOLTS MISSING @ S ABUT 1 1/4" DIA. OTHER					
Expansion Type : ROCKER BEARING Find Type : PINNED BEARING Functioning (Y/N)	Temperature (deg. C) -7								
Coating Adequate (Y/N) No Functioning (Y/N) No Deck Underside 4 4 4 Deck Underside 5	(Expansion Type : ROCKER BEARING								
Functioning (Y/N) No Deck Underside	(Fixed Type : PINNED BEARING)								
Deck Underside									
Stains (Percent Area) 5	Functioning (Y/N) No								
Span Alignment Problems Vertical (Y/N) Horizontal (Y/N) No Superstructure General Rating Abutments Bearing Seats/Caps (Type : CONCRETE) Scour/Erosion X X X Piers/Bents (Type : CONCRETE) Bearing Seats/Caps (Type : CONCRETE) Scour/Erosion X X S Siding cone slope protection pressure Sliding cone slope protection pressure	Deck Underside	4	4	Weep tubes drip and have caused punch outs and scaling at NW.					
Vertical (Y/N) No Substructure Bridge Component Last Now Explanation of Condition Abutments Bearing Seats/Caps 5 6 6 (Type : CONCRETE) Backwalls/Breastwalls 6 6 6 Wingwalls 6 6 6 Piles N N N Paint/Coating X X X Abutment Stability 5 6 6 Scour/Erosion X 5 5 Fiers/Bents Type : PIER-COLUMN) Type : PIER-COLUMN Searing Seats/Caps 7 7 7 (Type : CONCRETE) Sliding cone slope protection pressure Sliding cone slope protection pressure	Stains (Percent Area) 5			pressure at abutment interfaces - minor.					
Horizontal (Y/N)	Span Alignment Problems								
Superstructure General Rating	Vertical (Y/N) No								
Substructure Subs	Horizontal (Y/N) No								
Bridge Component Last Now Explanation of Condition Abutments 5 6 Bearing Seats/Caps 5 6 (Type : CONCRETE) 6 6 Backwalls/Breastwalls 6 6 Wingwalls N N Piles N N Paint/Coating X X Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents X 5 (Type : PIER-COLUMN) T 7 Bearing Seats/Caps 7 7 (Type : CONCRETE) Sliding conc slope protection pressure (Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure	Superstructure General Rating	4	4						
Bridge Component Last Now Explanation of Condition Abutments 5 6 Bearing Seats/Caps 5 6 (Type : CONCRETE) 6 6 Backwalls/Breastwalls 6 6 Wingwalls N N Piles N N Paint/Coating X X Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents X 5 (Type : PIER-COLUMN) T 7 Bearing Seats/Caps 7 7 (Type : CONCRETE) Sliding conc slope protection pressure (Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure			Cubat	nucture.					
Abutments Bearing Seats/Caps 5 6 (Type : CONCRETE) Image: Concrete to the concre	Bridge Component	l ast							
(Type : CONCRETE)			1.10.11	- Apparation of Containing					
Backwalls/Breastwalls	Bearing Seats/Caps	5	6						
Wingwalls 6 6 Piles N N Paint/Coating X X Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps 7 7 (Type : CONCRETE) Sliding conc slope protection pressure	(Type : CONCRETE)								
Piles N N N Paint/Coating X X Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 7 7 (Type: CONCRETE) Sliding conc slope protection pressure	Backwalls/Breastwalls	6	6						
Paint/Coating X X X Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 7 7 (Type: CONCRETE) (Total Number of Bearing Piles: 12:12) Sliding conc slope protection pressure	Wingwalls	6	6						
Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 7 7 (Type: CONCRETE) (Total Number of Bearing Piles: 12:12) Sliding conc slope protection pressure	Piles	N	N						
Abutment Stability 5 6 Scour/Erosion X 5 Piers/Bents (Type: PIER-COLUMN) Bearing Seats/Caps 7 7 (Type: CONCRETE) (Total Number of Bearing Piles: 12:12) Sliding conc slope protection pressure	Paint/Coating	X	X						
Scour/Erosion X 5 Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps 7 7 (Type : CONCRETE) (Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure									
Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps 7 7 (Type : CONCRETE) (Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure	·								
(Type : PIER-COLUMN) Bearing Seats/Caps 7 7 (Type : CONCRETE) Sliding conc slope protection pressure	Scour/Erosion	X	5						
Bearing Seats/Caps 7 7 (Type : CONCRETE) Sliding conc slope protection pressure Concrete reported by chipping helping									
(Type : CONCRETE) (Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure									
(Total Number of Bearing Piles : 12:12) Sliding conc slope protection pressure Concepts repound by chipping helping	·	7	7						
Congrete repoyed by chinning helped niles	(Type : CONCRETE)								
Congrete repoyed by chinning helped niles				<u></u>					
	(Total Number of Bearing Piles : 12:12)			Sliding conc slope protection pressure					
Bracing/Struts/Sheathing X X		7	7	Sliding conc slope protection pressure Concrete repoved by chipping behind piles.					

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		Х	X	
Paint/Coating		7	7	
(Colour Description :)				brown
(Colour Code :)				
Pier Stability		5	7	
Scour		Х	Х	
Debris (Y/N)	No			
Substructure General Rating			6	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Over abandoned railway.
Traffic Safety Features		Х	Х	
Туре				
Slope Protection		3	3	Is undermine 300mm deep @ north and causing concrete cracking at
(Type:)				top Centerline S. Settled 100mm & moved out 350mm. Center N. settled 20mm & moved out 90mm. Also, there is a 60mm gap along lower N. at centerling
Bank Stability			5	
Drainage			6	
Grade Separation General Rat	Grade Separation General Rating			

75919 S-1 Bridge

		Maintenance Re	commendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
REPAIR/SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS	2015	Install 2 bolts at south and paint. abu bearings.	t.				
REPAINT SUPERSTRUCTURE	2015	Touch up painting at exterior girders.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSI	ON 2012	Fill gaps at top of both slope protection (approx. 1m3 grout)	ons				
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/No. (%)	ow) 50.0/55	5.6 Sufficiency Rating (Last/N	low) 58.5/57.7	Est. Repl. Yr	2025 Maint. R	eqd. (Y/N)	Yes
Special Railroad is abondor work should be com	ned. Depending npleted until brid	on highway realignment plans, only midge can be removed. (G.Roberts Jan.23	Department Comments				
Maintenance Reviewed By			Date		Estimated Tot	al 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	23-Oct-2011		Previous Inspection Date				
				07-Dec-2007			
Inspection Cycle (Default) (months)	21						
Inspection Cycle (Default) (months) Comment	21						

Bridge Inspection & Maintenance System (Web 2005)