

Bridge Inspection							
Bridge File Number	73387 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1972/1972			Lot No.	2		
Bridge or Town Name	MILLARVILLE			Inspector Name	Calvin Roberts		
Located Over	FISHER CREEK, 2.13.27.2.9.8, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	762:02 C1 0.896			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	29-Jan-2013		
Legal Land Location	SW SEC 11 TWP 21 RGE 4 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-114:27:48, 50:45:43			Data Entry Date	01-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA27			Review Date	03-Feb-2013		
Clear Roadway/Skew	9.8 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	1,140 / 2011 (A)			Dept. Review Date	04-Mar-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information							
Required Load Posting (t)	Single				Semi		Truck Train
Posted Loading (t)	Single				Semi		Truck Train
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Remarks	Not required.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	90% loading for a single axle trucks.						

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	East ditch & through conduit on East curb.		Gas
Power	East fence-3 wire.		Municipal
Others			Problem (Y/N) No
Remarks	Power line also crosses road - 40m S of bridge-3 wire.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm entrance both ends. Hills to North and South.
Vertical Alignment		7	7	
Roadway Width (m)	8.400			Not thrie beam.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		5	5	
Length (m)	11.430			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		5	5	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 2 Spans, Lengths(m): 8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface			6	6	Asphalt from 50 - 125 mm.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered.
Deck Rideability			7	7	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Some minor damage at corners. Exposed rebar @ SW curb from where concrete popped off. Also NE Curb.
(Curb Type : Standard)					
Scaling (Percent Area)		15			
Bridge Rail			5	5	Minor damage but functional. Single layer.
(Type : GALVANIZED STEEL FLEX BEAM;FLEX BEAM)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	2	
Now	0	0	0	4	
Girders			3	3	4 girders with narrow shear cracks. 4 girders wide cracks in AZ-1 leg, 2 curbs. 2 girders wide cracks in AZ-2 legs both are curbs. SP1G10 - Spall in A zone 50% of main longit. steel encased in sound concrete - w/ crack in other leg. SP2G2-wide crack and spall in AZ of both legs. 2-SM girders each span. Sp1 G2 and Sp2 G10 both with spalls in the A-Z with 50% of main longitudinal steel in sound concrete.
Last Complete Inspection Date		30-Jan-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		4			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 22)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Steel caps on pipe capitols.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		1.60				
Wingwalls				4	4	Split plank @ SE Wing NW wing, 2 broken planks. Loosing minor amount fill.
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				6	4	Suspect rot in P3 @ A2.
Paint/Coating				4	4	Paint on steel caps some pitting & scaling.
Abutment Stability				6	6	
Scour/Erosion				4	N	(Minor scour at North) Oct 1/09. Snow covered.
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
(Total Number of Bearing Piles : 9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				6	5	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing				4	4	Cracked brace - minor.
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Pitting and scaling.
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		N	N	(Deep water) Iced over.
Debris (Y/N)	Yes			Old pile.
Substructure General Rating		6	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)	1.0			No visible HWM.
Drift (Y/N)	Yes			
Slope Protection		5	N	Snow covered.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2013	Core all piles on bridge.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/38.9	Sufficiency Rating (Last/Now) (%)	60.1/55.6	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	29-Apr-2016		Previous Inspection Date	01-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							