

Bridge Inspection									
Bridge File Number	09981 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1970/1970				Lot No.	1			
Bridge or Town Name	ELKWATER				Inspector Name	Tom Carey			
Located Over	TRIBUTARY TO MCALPINE CK, 28.5.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	515:02 C1 9.971				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Mar-2012			
Legal Land Location	SW SEC 3 TWP 10 RGE 2 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-110:12:18, 49:47:10				Data Entry Date	08-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	24-Mar-2012			
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	80 / 2011 (A)				Dept. Review Date	17-Apr-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	13								
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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	Attached to South side.				Gas				
Power	3 wires running East-West, North side.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Intersection 170m West.				
Vertical Alignment			6	6					
Roadway Width (m)	10.800								
Approach Bump			8	6					
Guardrail (Y/N)	Yes				Minor damage at SW. Not thriebeam.				
Guardrail			8	5					
Length (m)	11.000								
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, A-Ident Number: )</b>						
<b>Special Features</b>						
Special Feature						
(Type : )						
Special Feature						
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	80% gravel covered.	
<b>Last</b>	100					
<b>Now</b>	80.0	0.0	0.0	0.0		
Wearing Surface				X	X	
(Material Type : )						
(Thickness(mm) : )						
Lateral Connection Problem (Y/N)						
Deck Top				N	N	What was seen rates '5'.
Deck Rideability				7	7	Gravel.
Deck Joints				N	N	Gravel covered.
Bump (Y/N)						
Deck Drainage				6	6	Gravel build up along curb.
Drains Clogged (Y/N)		No				
Curbs/Median				6	6	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		5				
Bridge Rail				8	8	Double layer.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts				7	7	
(Type : <b>POST STEEL;POST STEEL</b> )						
Bridge Rail/Posts Coating				7	7	
(Type : <b>GALVANIZED</b> )						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	1		
Girders				4	3	Drift pin spalls most units.  Curb girder #10 has spall in one web outside AZ. 4 girders have medium to wide cracks in both webs in AZ. Worst is G9 with wide crack in both webs in AZ at East end and spall in one web in AZ at West end.
Last Complete Inspection Date		12-Mar-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		20				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : <b>10</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>				<b>4</b>	<b>3</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1500)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels				5	4
(Type : TREATED TIMBER)					
(Depth(mm) : 350)					
(Width(mm) : 300)					
Backwalls/Breastwalls			6	6	
Greatest Height (m)		2.30			
Wingwalls			6	6	
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	2	
Piles				6	3
Paint/Coating				X	X
Abutment Stability			6	4	West abut cap has moved back.
Scour/Erosion			7	N	Water too dark too see.
<b>Piers/Bents</b>					
(Type : )					
(Total Number of Caps/Corbels : )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels				X	X
(Type : )					
(Depth(mm) : )					
(Width(mm) : )					
(Total Number of Bearing Piles : )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Pier Shaft/Piles				X	X
Greatest Height (m)					
Bracing/Struts/Sheathing			X	X	
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description : )					
(Colour Code : )					
Pier Stability			X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	7	Class 2 at all 4 corners.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

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							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS	2012	Consider strutting piles- From East abutment to West abutment.					
OTHER ACTION	2012	Band split piles 5 and 6 at West.					
OTHER ACTION	2012	Shim 3 sub cap piles to cap at West.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.9/56.3</b>	Est. Repl. Yr	2022	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	12-Jun-2015		Previous Inspection Date	12-Mar-2009			
Inspection Cycle (Default) (months)	39						
Comment							