

Bridge Inspection							
Bridge File Number	73635 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1973/1973			Lot No.	2		
Bridge or Town Name	ELKWATER			Inspector Name	Jason Rusu		
Located Over	LODGE CREEK, 26, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	41:03 C1 8.521			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	15-Jan-2012		
Legal Land Location	NE SEC 30 TWP 5 RGE 2 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-110:15:39, 49:24:57			Data Entry Date	29-Feb-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA23			Review Date	23-Jan-2012		
Clear Roadway/Skew	9.5 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	280 / 2010 (A)			Dept. Review Date	11-Mar-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	32						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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	None								

Utilities (Located at)			
Utility Attachments			
Telephone	West ditch.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Gradual sag curve with good sight distance.
Vertical Alignment		7	7	
Roadway Width (m)	9.500			South approach settlement up to 25 mm x 2 m
Approach Bump		5	4	
Guardrail (Y/N)	Yes			NE & SW posts broken
Guardrail		4	4	
Length (m)	12.000			Not thriebeam
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-10.1-8.5, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X	1	
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	2.0	
Wearing Surface			5	3	HAIRLINE MAP CRACKS & SOME POPOUTS.  Thickness varies from 80 mm to 165 mm Spalls at A2 & P2 with exposed rebar at A2. South approach settlement 25 mm x 2 m (SBL)
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>120</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	FIBRE BOARD
Bump (Y/N)		No			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Only 135 mm of curb height left at NW pier. Spall SE corner & outsides (minor). Visible stirrup by pier SE NE curb scaling rebar exposed. Plow damage both sides.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Single layer. 3rd post from the SW is missing a nut and washer
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			4	3	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			N	N	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			4	4	18 OF 33 HAVE NARROW SHEAR CRACKS. ONE SMALL PUNCHOUT @ GIRDER #4,5,7 @ N SPAN & #4,5,7 @ S span. Drift pin spalls. Wide crack in AZ, one leg only curb unit span 3 G 1 Spall in AZ, one leg in S1 G11 Medium shear crack at S3 G7 at P2
Last Complete Inspection Date		15-Jan-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>4</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : <b>N</b> )					
(Extended Backwall Piles Spacing(mm) : )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels			7	7	
(Type : <b>CONCRETE</b> )					
(Depth(mm) : )					
(Width(mm) : )					
Backwalls/Breastwalls			X	X	
Greatest Height (m)		1.00			
Wingwalls			7	7	
(Total Number of Bearing Piles : <b>0:0</b> )			Unable to confirm pile count due to high fill		
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	12	0	0	0	
<b>Now</b>	12	0	0	0	
Piles			N	N	
Paint/Coating			X	X	
Abutment Stability			7	7	
Scour/Erosion			7	7	
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels			7	7	
(Type : <b>CONCRETE</b> )					
(Depth(mm) : <b>600</b> )					
(Width(mm) : <b>500</b> )					
(Total Number of Bearing Piles : <b>6:6</b> )			Can't confirm due to ice		
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Pier Shaft/Piles			7	7	
Greatest Height (m)		3.50			
Bracing/Struts/Sheathing			X	X	
Nose Plate			X	X	
Paint/Coating			4	5	
(Colour Description : <b>YELLOW</b> )					
(Colour Code : <b>13538</b> )					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				U/S channel 45 degree bend
(D/S Direction : <b>W</b> )				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)	2.5			Grass/ drift on fence U/S
Drift (Y/N)	No			
Slope Protection (Type : )		6	6	
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>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace missing nut and washer. Replace 1 post NE 1 section flexbeam SE. Replace SW post.					
SEAL CURBS							
PATCH DECK	2012	Patch spalls at abuts. and pier 2 1 m x 0.025 m depth, repair approach road settlement at South in SBL					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.1/67.0</b>	Est. Repl. Yr	2025	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	15-Oct-2013		Previous Inspection Date	06-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							