

Bridge Inspection											
Bridge File Number	83027 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1987/1987				Lot No.	2					
Bridge or Town Name	MIRROR				Inspector Name	Dave Lam					
Located Over	PARLBY CREEK, 3.65.2.1.1, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	LOCAL ROAD				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	13-Jul-2011					
Legal Land Location	NW SEC 20 TWP 40 RGE 22 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:08:09, 52:27:45				Data Entry Date	21-Aug-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	UNDEFINED CMA				Review Date	28-Jul-2011					
Clear Roadway/Skew	3.9 /				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	5 / 2011 (E)				Dept. Review Date	29-Aug-2011					
Road Classification					Follow-Up By						
Detour Length (km)	999										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS230									----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	NONE								

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm access to field; access over water stabilizing channel. 100m S of BF07056 in field. Access from field entrance 100m E of BF07056. Fences each side; tube rail on S. Fenced-off area for gates to canal.				
Vertical Alignment			7	7					
Roadway Width (m)			3.900						
Approach Bump			6	6					
Guardrail (Y/N)			No						
Guardrail			6	X					
Length (m)									
Current Standard (Y/N)									
Termination Type									
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>6</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 1 Spans, Lengths(m): 10, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			4	Gate Arm Anchor. Control & gates to canal to N of bridge. Grout pad securing anchor arm is cracked, typical at all 4 locations (photo). N end gate control. Roof Slab.	
(Type : )					
Special Feature			7		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	X	
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			7	7	
Deck Rideability			7	7	
Deck Joints			7	4	
Bump (Y/N)		No		PROTECTION ANGLES Caulking separating at W abut (photo).	
Deck Drainage			7	7	
Drains Clogged (Y/N)		No		Localized leakage under E cell possible from failed caulking btwn girders.	
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED 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	0	
Girders			7	5	
Last Complete Inspection Date		13-Jul-2011		Typical short diag. & longit. cracks at AZ (photo).	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 4)					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>7</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 : : )						
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				7	7	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
Backwalls/Breastwalls			7	4		
Greatest Height (m)						
Caulking at wall vert. jnt. either stop short or have failed/separated in E cell walls (photo). W abut wall with vert. cracks leaking (photo). Greatest Height not measured.						
Wingwalls			7	7		
SE & SW only; map cracking (photo).						
(Total Number of Bearing Piles : <b>0:0</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	100	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability			7	7		
Concrete floor slab.						
Scour/Erosion			7	7		
<b>Piers/Bents</b>						
(Type : )						
Massive Concrete						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				0 0 0 0		
<b>Now</b>				Rating=7		
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>				100 0 0 0		
<b>Now</b>				Rating=N		
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Caulking separating in pier vert. jnt. Greatest Height not measured.						
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating				X	X	
Rating=7						
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	Rating=7
Scour		X	X	Rating=7
Debris (Y/N)	Yes			Drift caught at u/s end, minor.
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Water monitoring at SE.
(D/S Direction : <b>N</b> )				
Alignment		9	9	
Bank Stability		8	7	
HWM (m below Top of Curb)				HWM not visible - control structure. Minor drift/grass.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</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							
OTHER ACTION	2011	Seal cracks in walls not caulked.					
OTHER ACTION	2011	Repair separated caulking btwn girders & at W abut jnt.					
OTHER ACTION	2011	Repair separated caulking at E backwall below where new caulking was installed.					
OTHER ACTION	2011	Repair/recast cracked grout pad for gate arm control.					
OTHER ACTION	2011	Seal cell walls at low water - annually.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.0/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.7/58.2</b>	Est. Repl. Yr	2047	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	AE advised that they inspect structure annually & perform maintenance regularly. AT & AE should coordinate & streamline inspection/maintenance work as required.		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	Aime Theroux		Previous Assistant's Name				
Next Inspection Date	13-Oct-2014		Previous Inspection Date	10-Jul-2002			
Inspection Cycle (Default) (months)	39						

Comment	
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