

Bridge Inspection										
Bridge File Number	76396 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1967/1967				Lot No.	1				
Bridge or Town Name	LAC LA BICHE				Inspector Name	Todd Warshawski				
Located Over	LAC LA BICHE, 8.11.55.9, WATERCRS-ST				Inspector Class	BR CLS B				
Located On	LOCAL ROAD				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Apr-2013				
Legal Land Location	SW SEC 29 TWP 67 RGE 13 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:57:20, 54:49:32				Data Entry Date	24-Apr-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	UNDEFINED CMA				Review Date	21-Apr-2013				
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	42 / 2013 (E)				Dept. Review Date	01-May-2013				
Road Classification	RLU-208-110				Follow-Up By					
Detour Length (km)	999									
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)	No								
Remarks	Approach guardrail narrower than bridge.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	1 OH to north				Gas				
Power	1 OH to north				Municipal				
Others	100mm duct suspended on North curb.				Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Park entrance 500 m West curve 500 m South.				
Vertical Alignment			8	8					
Roadway Width (m)		8.100			Patching at East approach.				
Approach Bump			4	4	Approach slab East & West settled by about 20mm.				
Guardrail (Y/N)		Yes			Not connected to bridge flexbeam.				
Guardrail			4	4					
Length (m)		144.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			4	4	Drainage affecting SE & NE corners near sidewalk, allowing water to get underneath cap & scour slope.				
<b>Approach Road General Rating</b>			<b>8</b>	<b>8</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 10.1-11.6-10.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface			5	4	Transverse crack over piers 5 cracks along girder edges in asphalt per span. No corrosion stains due to connector pockets on girder legs. Pothole over P1
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	N	ACP covered
Deck Rideability			7	6	
Deck Joints			7	N	ACP covered Cracks at abutments and piers.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		3			
Bridge Rail			7	7	Single layer.  2 - 7/8" nuts missing @ SE & NW corners.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			8	7	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 3 Spans, Lengths(m): 10.1-11.6-10.1, A-Ident Number: )</b>						
Girders		4	4	Span 1: G1: WLC in AZ, spall o/s AZ, 1 leg. G6: WLC in AZ 1 leg. G7: Spall/WLC in/out AZ 2 legs. G8: Spall at pier bearing, 1 leg. G9: Spall at pier bearing, 2 legs. G11: Spall at pier bearing, 2 legs. G12: Span 2: G3,4,6,7,8: WLC in/out AZ 1 leg. G9: Spall o/s AZ 1 leg G10: WLC o/s AZ 1 leg G11: Spall in AZ 1 leg. G12: WLC in/out AZ 1 leg. Span 3: G3: Spalls o/s AZ 1 leg G4: Spall in/out AZ 1 leg G5: Spall at pier bearing, 1 leg. G7: Sall at pier bearing 1 leg G8: Spall/WLC in/out AZ 1 leg G11: WLC o/s AZ 1 leg G12: WLC in/out AZ 2 legs, Spall o/s AZ 1 leg. Drift pin spalls on 60% of girders.		
Last Complete Inspection Date	03-Apr-2013					
Cracking (Y/N)	Yes					
Spalling (Percent Area)	5					
Lift or Connector Pocket Grouted (Y/N)	Yes					
(Number Of Girders : <b>36</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>						
<b>Now</b>						
Bearing Seats/Caps/Corbels		7	6			
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>900</b> )						
(Width(mm) : <b>900</b> )						
Backwalls/Breastwalls		X	X			
Greatest Height (m)		1.10				
Wingwalls		8	6			
(Total Number of Bearing Piles : <b>0:0</b> )		piles encased in concrete.				
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100					
<b>Now</b>	100					
Piles		N	N			
Paint/Coating		X	X			
Abutment Stability		8	8			
Scour/Erosion		4	4	Erosion from drainage runoff SE abutment. Photo		

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<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)		Vertical wide cracks in concrete at 20% piles. Form work attached to North pier cap. Crack in North pier cap.
<b>Last</b>						
<b>Now</b>						Concrete cap finish peeling and stained from leakage.
Bearing Seats/Caps/Corbels				5	4	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>850</b> )						
(Width(mm) : <b>400</b> )						
(Total Number of Bearing Piles : <b>6:6</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				8	7	
Greatest Height (m)		4.60				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				5	5	Loosing paint along waterline.
(Colour Description : <b>BLUE</b> )						
(Colour Code : <b>15182</b> )						
Pier Stability				8	8	
Scour				8	8	
Debris (Y/N)		Yes				Debris in channel and on SW headslope.
<b>Substructure General Rating</b>				<b>5</b>	<b>4</b>	
Structure Usage						
				Last	Now	Explanation of Condition
<b>Channel</b>						
(U/S Direction : )						
(D/S Direction : )						
Alignment				8	8	Direction of flow not certain. Allows for recreational boat passage.
Bank Stability				8	8	
HWM (m below Top of Curb)						HWM not visible.
Drift (Y/N)		Yes				
Slope Protection				7	7	
(Type : <b>RIP RAP; RIP RAP</b> )						
Guidebank/Spurs				X	X	
Adequacy of Opening				8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )						
(Fish Compensation Measure 2 : <b>NONE</b> )						
<b>Channel General Rating</b>				<b>8</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install missing AB nuts.					
SEAL CURBS							
PATCH DECK	2013	Patch ACP on deck and approaches.					
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	2013	Remove debris from channel to allow clear boat passage.					
INSTALL STRUTS							
OTHER ACTION	2013	Replace missing nuts from bridgerail.					
OTHER ACTION	2013	Repair erosion from deck drainage.					
OTHER ACTION	2013	Repair erosion hole at SE corner.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.4/61.4</b>	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks and pier cracks. A Leve II girder and concrete inspection should be scheduled in the next 5 years.		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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	03-Jan-2018		Previous Inspection Date	01-May-2008			
Inspection Cycle (Default) (months)	57						
Comment							