

Bridge Inspection									
Bridge File Number	00527 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	LEDUC				Inspector Name	Todd Warshawski			
Located Over	WEST WHITEMUD CREEK, 6.95.4, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	39:10 C1 23.187				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	07-Jan-2013			
Legal Land Location	SW SEC 31 TWP 49 RGE 25 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-113:39:16, 53:15:54				Data Entry Date	22-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	16-Jan-2013			
Clear Roadway/Skew	13.7 / 0 deg.				Dept. Reviewer Name	Brent Herrick			
AADT/Year	8,900 / 2011 (A)				Dept. Review Date	23-Jan-2013			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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)			No						
Remarks			Not required						
Other Sign Types			Info						

Utilities (Located at)									
Utility Attachments									
Telephone	South & North r/w.				Gas				
Power	2 lines North 20m of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm residence to Northeast				
Vertical Alignment			9	9					
Roadway Width (m)		12.700							
Approach Bump			7	7					
Guardrail (Y/N)		Yes							
Guardrail			4	4	Broken post @ SE and SW Minor strike damage to rail, still functional Not thrie beam				
Length (m)		46.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			5	4	Gully @ NE headslope 200 wide, 200 deep, 4m long and SW headslope 200 wide, 300 deep, 3m long.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	20.0	0.0	0.0	0.0	
Wearing Surface			5	7	Recently repaved
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			5	5	No drains
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Plow damage N curb.- photo
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Double layer. (Insufficient threads on 52 of anchor bolts. Apr/11)
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			4	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	3	
Now	0	0	0	4	
Girders			3	3	Typical diagonal cracks on several girders, less than 0.5m, no stains Underside spall on SP1-G8 at pier-photo End spalls at piers on exterior girders-photo Spall/handling damage on SP3G1, outer fascia-photo
Last Complete Inspection Date		13-Jan-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 36)					
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)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	5	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 500)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.50				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100	0	0	0		
Now	999	0	0	0		
Piles				N	N	
Paint/Coating				4	X	
Abutment Stability				7	5	
Scour/Erosion				4	4	
Gully @ SW & NE exposing pile.						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	2	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 500)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		3.20				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				N	5	
Rusting bottom 200 Green.						
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		5	4	Localized scour under bridge
Debris (Y/N)	Yes			Old piles in channel
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : RIP RAP)		5	4	Erosion gullies at SW & NE
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace all missing nuts on bridgerail posts, if not already completed					
SEAL CURBS	2013	Patch spalls on curbs & girders and caps					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	5m3 CL1					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	Remove old piles					
INSTALL STRUTS							
OTHER ACTION	2013	Replace approach rail posts x 2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	48.4/46.7	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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	07-Oct-2014		Previous Inspection Date	13-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							