

Bridge Inspection									
Bridge File Number	76478 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1966/1966				Lot No.	1			
Bridge or Town Name	ENILDA				Inspector Name	Brian Pientsch			
Located Over	ARCADIA CREEK, 8.11.80.51, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:52 C1 1.678				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	13-Feb-2013			
Legal Land Location	NE SEC 7 TWP 74 RGE 14 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:07:51, 55:24:04				Data Entry Date	09-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA06				Review Date	03-Apr-2013			
Clear Roadway/Skew	11 / -15 deg. (LHF)				Dept. Reviewer Name				
AADT/Year	2,440 / 2012 (A)				Dept. Review Date				
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single		Semi		Train				----> 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)	No								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	Edge of S. row, conduit N. rail.				Gas				
Power	6 wire 30m N. of centre line.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	ACP is cracked at approaches.				
Vertical Alignment			9	9					
Roadway Width (m)	10.200				Non-standard Guardrail - bridgerail connection only 4 bolts at splice incorrect lap -NW &SE. 2 broken approach rail post blocks broken at NW corner - photo. Insufficient posts.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Snow covered Not FLEAT end treatment.				
Guardrail			3	N					
Length (m)	45.600								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>3</b>	<b>7</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-13.7-10.7, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Random transverse and longitudinal cks. Cracks were sealed but have opened up again.-14-May-2011	
<b>Last</b>	10	0	0	0		
<b>Now</b>	99.0					
Wearing Surface			6	N		
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>90</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			N	N	Paved over. Waterstop  The concrete CIP section on the curbs is severely scaled, rebar and waterstop exposed.-11-May-2011	
Temperature (deg. C)		-1				
(Expansion Type : )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			3	N	Hole in curb face, span 2 N & S sides E. end.(photo)150mm x 100mm. Rebar exposed on curb faces and at end. -11-May-2011  Snow covered	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		3				
Bridge Rail			4	N	Single layer flexbeam. Missing 6 splice bolts, and 16 in the transitions. (Missing nut on rail to post bolt SW. Insufficient thread extending past nut post anchors (random).13-Jan-2006) Partly gravel covered.-11-May-2011	
(Type : <b>GALVANIZED STEEL FLEX BEAM;FLEX BEAM</b> )						
Bridge Rail Posts			5	N		
(Type : <b>GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	N	Snow covered	
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder Detail Ratings</b>						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Girders			7	7		
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
(Number Of Girders : <b>39</b> )						
Diaphragms/Cross Frame			X	X		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-13.7-10.7, A-Ident Number: )					
Bearings		7	7	W. abut	
Temperature (deg. C)	19				
(Expansion Type : )					
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		6	6	Water staining between curbs and adjacent interior stringers & connector pockets.	
Stains (Percent Area)	5				
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No			Slight misalignment at curb outside fascia due to skew. 25mm Girders overhanging cap at E. abut. (75mm north end, 250mm S. end) E. abut skew does not match girder skew.	
Horizontal (Y/N)	Yes				
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
Bearing Seats/Caps		5	5	Abut 2 new timber cap. Abut 1 steel cap with capitals.	
(Type : <b>TREATED TIMBER</b> )					
Backwalls/Breastwalls		5	5	Backwall lowered abut. 2.	
Wingwalls		3	N	NE wingpile appears to be broke off below ground level.-11-May-2011  Snow covered Tintop all damaged-photo	
Piles		3	3	Majority, most piles split & banded. Pile 7 W. abut sounds hollow. Split and leaning.-photo	
Paint/Coating		X	X		
Abutment Stability		5	5		
Scour/Erosion		4	4	Headslope scouring out at NE toe 5mx10m-photo	
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )				Partially covered with pier sheeting. Deck to streambed 7.4m.	
Bearing Seats/Caps		N	N	7 pier piles have TT splice visible. Pier 1, pile 1 W side split completely through at base. Pier 2 pile 4 E minor split at base.30-Mar-2010 Under ice.  P2 pile 5 split at base due to pile splice.P2 pile 8W bulging fibres at base.-30-Mar-2010 Under ice.  P1P7 & 8W =soun hoolow & at water line, possible rot.	
(Type : <b>TREATED TIMBER</b> )					
(Total Number of Bearing Piles : <b>18:18</b> )					
Pier Shaft/Piles		2	2		
Bracing/Struts/Sheathing		3	3	Pier sheeting does not extend low enough.	
Nose Plate		5	5		
Paint/Coating		X	X		
(Colour Description : )					
(Colour Code : )					
Pier Stability		3	3	Base of W. pier deflecting toward creek near u/s end from uneven lateral soil pressure.( W headslope-)East headslope 2.5m silt buildup.	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		3	3	Headslope scoured out at NE toe 5m X 10m.-photo
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>2</b>	<b>2</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		4	4	3m high bank sloughing NE corner.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		3	3	Eroding west headslope scouring near piers 4m W X 5m L.- photo.
(Type : <b>NONE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>3</b>	<b>3</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace.					
OTHER ACTION	2013	Repair pier piles.					
OTHER ACTION	2013	Complete level 2 and core piles.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.1/56.1</b>	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Bridge scheduled for replacement. Should consider reducing inspection cycle to 12 months. Repair piles if replacement isn't scheduled for the immediate future.  LRA sent to Alan Saunders (AT) on 12-Mar-2013		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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	13-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							