

Bridge Inspection									
Bridge File Number	76200 -1 Bridge				Form Type	PT TT			
Year Built/Year Supstr	1967/1966				Lot No.	1			
Bridge or Town Name	DEBOLT				Inspector Name	Randy Bredo			
Located Over	PUSKWASKAU RIVER, 8.10.58.12, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	736:02 C1 26.612				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	05-Jul-2011			
Legal Land Location	SW SEC 26 TWP 74 RGE 1 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:02:29, 55:26:19				Data Entry Date	17-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA03				Review Date	15-Jan-2012			
Clear Roadway/Skew	7.9 /				Dept. Reviewer Name	David Morrison			
AADT/Year	140 / 2011 (A)				Dept. Review Date	04-Apr-2012			
Road Classification	RLU-210G-90				Follow-Up By				
Detour Length (km)	110								
Allowable Load (t):	Single	CS1 27 STRINGER	Semi	CS2 48 STRINGER	Train	CS3 69 STRINGER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS15						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single		28	Semi		49	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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Mounted 300 too low @ West end.								
Other Sign Types	Steep hill, narrow bridge, Puskwaskau River.								
Utilities (Located at)									
Utility Attachments									
Telephone	10m north of centerline.				Gas	50m South of bridge.			
Power	1 wire 10m east of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Horizontal curves both approaches. Bottom of sag curve.				
Vertical Alignment			5	5					
Roadway Width (m)	10.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			5	4	Insufficient number of posts @ transition section. 1 split post @ NW corner.				
Length (m)	12.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			N	4	Ridges of gravel along shoulders prevent good drainage. Snow covered.				
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 3 Spans, Lengths(m): 6.1-35.1-8.5, A-Ident Number: A0554-01)					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	30.0	0.0	0.0	0.0	
Wearing Surface/Deck Top			9	7	30% gravel covered.
(Material Type : <b>UNTREATED TIMBER</b> )					
(Plank Thickness(mm) : <b>75</b> )					
(Plank Width(mm) : <b>300</b> )					
Deck Rideability			7	5	
Deck Joints			X	X	
Temperature (deg. C)		-20			
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards			9	N	
(Curb Type : <b>Standard</b> )					
(Type : <b>TREATED TIMBER</b> )					
(Thickness(mm) : <b>100</b> )					
(Width(mm) : <b>300</b> )					
Bridge Rail			7	7	
(Type : <b>STEEL NON-STANDARD RAIL</b> )					
Bridge Rail Posts/Blocking			7	7	
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>PAINT</b> )					
Sidewalk			X	X	

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : PT, 3 Spans, Lengths(m): 6.1-35.1-8.5, A-Ident Number: A0554-01)							
Wide Load Damage (Y/N)		No				2 open holes at U4U5E at U4E. Some bolts with insufficient thread extension through the nut, worst at U5E. Numerous bolts are near flush.(10%)	
Top Chord				6	6		
Batter Posts				7	7		
Diagonals				7	7		
Verticals				7	7		
Connections				5	5		
Floor Beams				7	7		
Bottom Chord				7	7		
Lateral Bracings				7	7		
(No. of Stringers : 84)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Stringers				7	7		
(Type : STEEL)							
(Width(mm) : 170)							
(Depth(mm) : 300)							
(Spacing(mm) : 609)							
Paint Condition				7	7	Blue.	
(Colour Description : )							
(Colour Code : )							
Touchup Required (Y/N)		No					
Bearings				7	7		
Temperature (deg. C)		-20					
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)							
(Fixed Type : REINFORCED PAD BEARING)							
Functioning (Y/N)		Yes					
Sub Deck/Deck Underside				7	6		
(Material Type : TREATED TIMBER)							
(Plank Thickness(mm) : 100)							
(Plank Width(mm) : 305)							
Defects (Percent Area)		0					
<b>Span Alignment Problems</b>							
Vertical (Y/N)		No					
Horizontal (Y/N)		No					
<b>Superstructure General Rating</b>				<b>7</b>	<b>5</b>		
Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Secondary Span : TT)							
<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>							
	30.0	0.0	0.0	0.0			

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
<b>(Secondary Span : TT)</b>						
Wearing Surface/Deck Top				9	7	
(Material Type : <b>UNTREATED TIMBER</b> )						
(Plank Thickness(mm) : <b>75</b> )						
(Plank Width(mm) : <b>300</b> )						
Deck Rideability				7	7	
Wheel Guards				9	7	
(Curb Type : <b>Standard</b> )						
(Type : <b>TREATED TIMBER</b> )						
(Thickness(mm) : <b>100</b> )						
(Width(mm) : <b>300</b> )						
Bridge Rail				7	7	Posts installed incorrectly @ South approach span only.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts				4	7	
(Type : <b>TREATED TIMBER;TREATED TIMBER;TREATED TIMBER;TREATED TIMBER</b> )						
Bridge Rail/Posts Coating				7	7	
(Type : <b>GALVANIZED</b> )						
<b>(No. of Stringers : 18;17)</b>						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Stringers				5	7	
(Type : <b>TREATED TIMBER</b> )						
(Width(mm) : <b>150;200</b> )						
(Depth(mm) : <b>400;500</b> )						
(Spacing(mm) : <b>500;530</b> )						
Sub Deck/Deck Underside				7	5	Staining on edges.
(Material Type : <b>TREATED TIMBER</b> )						
(Plank Thickness(mm) : <b>100</b> )						
(Plank Width(mm) : <b>305</b> )						
Defects (Percent Area)	0					
<b>Span Alignment Problems</b>						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
<b>Superstructure General Rating</b>				<b>5</b>	<b>5</b>	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>1600</b> )						
(Total Number of Caps/Corbels : <b>1:5</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		North abutment has a double cap. South abutment has 360mm HP cap with 90mm timber plank on top.
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>305</b> )						
(Width(mm) : <b>305</b> )						

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Backwalls/Breastwalls		6	6				
Greatest Height (m)	1.50						
Wingwalls		5	6	Some web stiffeners do not line up with piles. A2P4 cracked.			
(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>							
Piles		5	4				
Paint/Coating		X	X				
Abutment Stability		6	6				
Scour/Erosion		5	5				
Piers/Bents							
(Type : <b>PIER-COLUMN</b> )				Double row of piles. HP 360 caps and corbels under truss with 150mm timber plank shims. Corbel @ NW of pier 2 not bearing on pile 3 .  P1S1 South end of cap distorted with an "S" shape with bulging.			
(Total Number of Caps/Corbels : <b>17:17</b> )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)				3 (count)
<b>Last</b>							
<b>Now</b>			1				
Bearing Seats/Caps/Corbels		5	2				
(Type : <b>TREATED TIMBER</b> )							
(Depth(mm) : <b>305</b> )							
(Width(mm) : <b>305</b> )							
(Total Number of Bearing Piles : <b>19:17</b> )				2 split piles (P2R2P6 & P2R2P5) at North pier with FB jammed against sides of piles banded.			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)				3 (count)
<b>Last</b>							
<b>Now</b>							
Pier Shaft/Piles		5	4				
Greatest Height (m)	2.30						
Bracing/Struts/Sheathing		5	5				
Nose Plate		7	7				
Paint/Coating		X	X				
(Colour Description : )							
(Colour Code : )							
Pier Stability		4	4	Sides of piles jammed into end floor beam at North pier.			
Scour		7	7				
Debris (Y/N)		No					
<b>Substructure General Rating</b>		<b>5</b>	<b>2</b>				
Structure Usage							
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>			
<b>Channel</b>				Stream flow skewed to bridge. 30 degree RHF.			
(U/S Direction : <b>E</b> )							
(D/S Direction : <b>W</b> )							
Alignment		4	4				

Structure Usage				
		Last	Now	Explanation of Condition
Bank Stability		4	4	Bank slumping.-minor
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)				
Slope Protection (Type : RIP RAP; RIP RAP)		6	6	
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
PATCH DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS	2012	Replace S1P1 cap with HP, if not already done.					
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Remove gravel from approach rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.5/50.9</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor North pier supporting approach span. (Deck to water 6.9m.-05-Jul-2000) (Deck to streambed 7.2m-05-Jul-2000) Replace 1 cap ASAP(within 3 months) Called Munir with 2 rating at 3:00 p.m.		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	05-Oct-2014		Previous Inspection Date	15-Feb-2011			
Inspection Cycle (Default) (months)	39						
Comment							