

Bridge Inspection									
Bridge File Number	72315 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1955/1994				Lot No.	1			
Bridge or Town Name	DONNELLY				Inspector Name	Brian Pientsch			
Located Over	2ND ORDER TRIBUTARY TO PEAVINE CK, 8.10.58.7.4.3.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:58 C1 0.671				Assistant Name	Lisbeth Medina			
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jan-2011			
Legal Land Location	SW SEC 1 TWP 78 RGE 21 W5M				Data Entry By	Janie Assenheimer			
Longitude, Latitude	-117:07:53, 55:43:45				Data Entry Date	25-Feb-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA03				Review Date	22-Feb-2011			
Clear Roadway/Skew	13.7 /				Dept. Reviewer Name	David Morrison			
AADT/Year	2,040 / 2010 (A)				Dept. Review Date	07-Sep-2011			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	300								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> 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	Not required.								
Other Sign Types	Railway crossing, 80 kmph, Hwy 2 signage.								

Utilities (Located at)									
Utility Attachments									
Telephone	East side.				Gas	32m East Hwy c/l, 150m North.			
Power	2 lines West r/w, 6 & 4 wires.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7	Driveway 130m NE. 2 approaches 50m South. Hwy 2 intersection 500m South. Railway intersection 500m North.				
Vertical Alignment			9	9					
Roadway Width (m)	12.900				(2 splintered posts & 135 degree bracket broken off SW corner - photo. All 4 corner rails are dented & scraped. Insufficient posts & length. July 29, 2009)				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			4	N					
Length (m)	22.800								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			8	8					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SC, 1 Spans, Lengths(m): 6.1, 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>	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Cracks in ACP at abutments and along every third girder line.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>175</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			8	7	No drains. Clogged with snow.
Drains Clogged (Y/N)		Yes			
Curbs/Median			7	N	Lifting pockets filled with tar.7
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		7			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL TUBE BEAM TYPE 1</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			5	5	Numerous 10mm dia rust spots on all girders, likely from chains or wires. G8 & G7 200mm hairline longitudinal cracks staggered along length of girder - photo.
Last Complete Inspection Date		26-Jan-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>13</b> )					
<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) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		Tin top damaged NW extension pile 2nd has wide split- photo. Shimmed with 76 x 305 and 102 x 305. Cap rolled back 100mm at NE. Only bearing 1/3 on P10 & P11 North abutment. Cored in 2009. No rot. Hammer sounds confirms no rot.
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				4	4	50mm gap under sheeting. Top 3 planks on North backwall rolling back. Sheeting on fronts of piles have come loose - photo.
Greatest Height (m)		2.70				
Wingwalls				4	4	Fire damage. SW corner planks 2nd pile broken past extension pile - photo.
(Total Number of Bearing Piles : 11:11)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		Cored in 2009. P3 South abutment is beginning to rot.
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				4	4	North cap rolling back.
Scour/Erosion				5	5	
<b>Piers/Bents</b>						
(Type : )						
(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>						
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>						
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				7	6	Strutted.
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Old piles, ACP chunks, old guardrail section.
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		7	7	
Bank Stability		8	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Old piles in channel under bridge.
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	(Replace broken posts (2). July 29, 2009)					
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	Assessment completed in 2009 - Replace with culvert if turning lane is required.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>55.7/58.8</b>	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor SW wingwall, backwall sheeting and split pile.		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	26-Oct-2012		Previous Inspection Date	29-Jul-2009			
Inspection Cycle (Default) (months)	21						
Comment							