

Bridge Inspection							
Bridge File Number	13767 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1962/1962			Lot No.	1		
Bridge or Town Name	GRANDE PRAIR			Inspector Name	Russel Vanderschaaf		
Located Over	TRIBUTARY TO BEAR RIVER, 8.10.58.18.2.2, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	670:02 C1 3.016			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Jan-2013		
Legal Land Location	SE SEC 4 TWP 72 RGE 5 W6M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-118:41:46, 55:11:59			Data Entry Date	02-Feb-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA05			Review Date	23-Jan-2013		
Clear Roadway/Skew	10 /			Dept. Reviewer Name	David Morrison		
AADT/Year	2,140 / 2011 (A)			Dept. Review Date	21-Mar-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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	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)	Yes
Remarks	Installed too low & NE marker not lined up with bridge.Placed on 3rd gaurd rail post east of bridge.
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	S R/W and north R/W		Gas
Power	20M N. OF C/L OF ROAD/2WIRE		Municipal
Others	Fibre optics North R/W		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	BOTTOM OF SAG. No passing westbound to passing E&W @ East end of structure.
Vertical Alignment		7	7	
Roadway Width (m)	10.000			Accident damage NE section. 4 pieces flexbeam damage (photo). 4 broken posts.-repaired. Missing bolt on SW corner.-03-May-2010 Under snow
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		3	4	
Length (m)	7.500			Missing bolt on SW corner.-03-May-2010 Under snow
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		7	7	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HH, 1 Spans, Lengths(m): 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 (%)	Partly snow covered.	
Last						
Now	25.0	0.0	0.0	0.0		
Wearing Surface				4	4	Lots of patches. Wide longitudinal cracks between girder joints (0.9m apart).
(Material Type : MIX TYPE 1 ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top				N	N	
Deck Rideability				7	7	
Deck Joints				N	4	Deck joints covered with ACP, wide cracking at abutments.
Bump (Y/N)		No				
Deck Drainage				7	7	
Drains Clogged (Y/N)		No				
Curbs/Median				6	N	Lift pockets filled with tar. -03-May-2010 Under snow
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail				7	7	Snow covered
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				7	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				7	7	
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Could not access due to water & ice level. Ratings carried over.	
Last	1	0	0	0		
Now	13	0	0	0		
Girders				N	N	(WC& or spalls in AZ 2legs (9 girders) Med shear cracks in girders 7,8 & 11. Level 2 girder inspection (2008). HH girders, no connector pockets.-15-Apr-2008)
Last Complete Inspection Date		15-Apr-2008				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		15				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 13)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				2	2	GR carried over 15-Apr-2008

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(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)			
Last	0	0	0	2			
Now	0	0	0	6			
Bearing Seats/Caps/Corbels				3	3	Cored 2008 DOUBLE CAPS.W/sub.@ S end piles W Abut 2&3 / E Abut 3&4. Top caps 300 deep 350 width,, (both abut) Bottom cap W. Abut 300x300 / E Abut 350 deepx 300 wide.Rolling behind piles @ 4-7 west abut.-photo Rolling behind pile 5-8 east abut.-photo	
(Type : TREATED TIMBER)							
(Depth(mm) : 300)							
(Width(mm) : 300)							
Backwalls/Breastwalls				4	4	15-Apr-2008 Cored	
Greatest Height (m)		2.00					
Wingwalls				4	4	Plank sideways& broken @ top of east wingwall. -photo	
(Total Number of Bearing Piles : 8:8)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	11			
Now	16	0	0	0			
Piles				3	N	E. abut piles 4-7 split. W. abut P3,P1 P5-P7 split. W. abut P4 not bearing at all. E. abut P4 bearing <1/3 & Split. Couldn't access to view piles due to water under bridge.	
Paint/Coating				X	X		
Abutment Stability				5	4	West cap rolling bwhind piles.	
Scour/Erosion				5	4	0.5 erosion scour under bridge.	
Piers/Bents							
(Type :)							
(Total Number of Caps/Corbels :)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
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)			
Last							
Now							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				5	5	ONLY 3 STRUTS	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			6 old piles under bridge. Fridge in channel at u/s end.-photo
Substructure General Rating		3	3	Gr carried over 15-Apr-2008
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)	0.5			Tall grass in trees. (U/S)
Drift (Y/N)	No			
Slope Protection		4	4	Scour beneath structure 0.5m deep.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		4	4	Debris in struts & HWM indicate small opening.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
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	2013	Replacement of structure		2013						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	27.8/27.8	Sufficiency Rating (Last/Now) (%)	46.6/47.9	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Assessment completed in July of 2008. Design complete and waiting for funding to complete replacement. Low Rating Advisory sent 17-Jan-2013 to Alan Saunders.									
Maintenance Reviewed By								Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Russel Vanderschaaf	Previous Assistant's Name								
Next Inspection Date	17-Apr-2014	Previous Inspection Date	03-May-2010							
Inspection Cycle (Modified) (months)	15									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
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	2013	Replacement of structure				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	27.8/27.8	Sufficiency Rating (Last/Now) (%)	46.6/47.9	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Assessment completed in July of 2008. Design complete and waiting for funding to complete replacement. Low Rating Advisory sent 17-Jan-2013 to Alan Saunders.	Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
Proposed Long-Term Strategy					
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Russel Vanderschaaf	Previous Assistant's Name			
Next Inspection Date	17-Apr-2014	Previous Inspection Date	03-May-2010		
Inspection Cycle (Modified) (months)	15				

Comment	
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