

Bridge Inspection											
Bridge File Number	79473 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1984/1984				Lot No.	4					
Bridge or Town Name	GRANDE PRAIR				Inspector Name	Brian Pientsch					
Located Over	CUTBANK RIVER, 8.10.58.20, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	40:40 C1 0.055				Assistant Name	Russel Vanderschaaf					
Water Body Cl./Year					Assistant Class	BR CLS B					
Navigabil. Cl./Year					Inspection Date	23-Aug-2012					
Legal Land Location	SE SEC 21 TWP 65 RGE 5 W6M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-118:41:07, 54:38:07				Data Entry Date	29-Oct-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA05				Review Date	22-Oct-2012					
Clear Roadway/Skew	13 / 0 deg.				Dept. Reviewer Name	David Morrison					
AADT/Year	2,120 / 2011 (A)				Dept. Review Date	15-Jan-2013					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	75										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS400									----> 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									
Hazard Marker At Bridge (Y/N)		Yes							
Remarks		W. side only							
Other Sign Types		Cutbank River NW corner only							

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	200 m west of centerline				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curves 200 m away from both ends. In 300 m wide valley at bottom of steep grades.				
Vertical Alignment			5	5					
Roadway Width (m)		11.800				repaired			
Approach Bump			4	6					
Guardrail (Y/N)		Yes				Insufficient length & posts. Chipped corner of catch basin.			
Guardrail			5	5					
Length (m)		35.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWNS							
Drainage			N	4	Erosion along the SE abutment.				
Approach Road General Rating			5	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 2 Spans, Lengths(m): 44-44, A-Ident Number: A0971-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partially GRAVEL covered	
Last	70	0	0	0		
Now	2.0	0.0	0.0	0.0		
Wearing Surface			5	5	Transverse medium & wide cracks approx 3m spacing. Small surface popouts throughout.	
(Material Type :)						
(Thickness(mm) :)						
Deck Top			X	X		
Deck Rideability			7	7		
Deck Joints			5	5		
Temperature (deg. C)		20				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60			N. abut			
55			S. abut			
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			N	4	Vertical narrow cracks every 400 mm. Rust stains on curb fascia @ bridge post locations. Concrete broken at the SW corner on the fascia next to the cover plate.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			8	8		
(Type : GALVANIZED STEEL TUBE BEAM TYPE 1)						
Bridge Rail Posts			8	8		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	8		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 44-44, A-Ident Number: A0971-01)				
Paint Condition		5	5	Flaking rust at N. abut girder ends & Diaphragms and ext. girder ends @ S. abut. Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	Yes			
Bearings		8	8	
Temperature (deg. C)	20			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Hairline transverse cracks every est. 3.0 m, some with efflorescences.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1)				2 diagonal wide cracks by nose plate through pier shaft. At d/s end there are 3 diagonal cracks and 1 vertical down centerline of pier Both sides.
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		6	6	grey sealer
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				BANKS SLOUGHING U/S & D/S
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)	4.0			(HWM stain on pier shaft - 2005/09/20)
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		N	7	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	61.3/61.0	Est. Repl. Yr	2045	Maint. Req. (Y/N)	No
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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	23-May-2014		Previous Inspection Date	24-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							