

Bridge Inspection										
Bridge File Number	73810 W-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1973/1973				Lot No.	1				
Bridge or Town Name	WHITECOURT				Inspector Name	Kris Bosters				
Located Over	ATHABASCA RIVER, 8.11, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	43:14 L1 40.934				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	04-Oct-2011				
Legal Land Location	SW SEC 3 TWP 60 RGE 12 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:43:10, 54:09:08				Data Entry Date	25-Oct-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA12				Review Date	25-Oct-2011				
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	10,000 / 2010 (A)				Dept. Review Date	26-Oct-2011				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	East end only.								
Other Sign Types	Curve, Information, 100 kph, River ID - NE.								

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	Under North curb.				Gas					
Power	3 lines North of r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks	Conduit attached to North curb U/S.									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Pot holes and wide cracks in ACP at West approach.-photo					
Vertical Alignment		7	7						
Roadway Width (m)	12.400			NW - 63.6; SE - 55.8; SW - 2.8; NE - 76.8. Bulb end @ West. 3 posts & 2 rail sections damaged NW. 1 post and GR to BR section damaged SW.-photo					
Approach Bump		6	4						
Guardrail (Y/N)	Yes								
Guardrail		4	4						
Length (m)	55.800								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage		7	7						
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 6 Spans, Lengths(m): 24.4-38.8-38.8-30.8-30.8-24.4, A-Ident Number:)					
Special Features					
Special Feature		7	7	Center 4 spans not accessible.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5				
Now					
Wearing Surface		6	5	Wearing along pier joint paving lips	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		5	5	Undulated ride due to negative camber of girders.	
Deck Joints		3	5	Pier joint gap filled with dirt. Minor deterioration along East abutment joint paving lip. Abrasion along paving lips, cracking. Fingers at W & E joints rotten under traffic. 1mm gap 73mm East abutment 2. Debris along curb impedes drainage.	
Temperature (deg. C)	0				
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)	Gap Location				
75	West abut 1				
70	Pier 1				
70	Pier 2				
74	Pier 3				
71	Pier 4				
78	Pier 5				
Deck Drainage		3	6		
Drains Clogged (Y/N)	No				
Curbs/Median		N	4	Numerous delam cracks with rust staining, severe scaling especially span 3. Span 6 - delam, spalling. Numerous repairs under posts. Several are starting to pop off.	
(Curb Type : Standard)					
Scaling (Percent Area)	10				
Bridge Rail		7	7	Deflection of span 2 & 3 due to overlay reflected in railing. 15 A/B's have insufficient thread few scrapes along edge of rail.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		N	6	Dirty.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	15			2	Narrow vertical crack East end of G1S1 - photo. Spall in bottom of G8S6 leg with corrosion stain, due to shallow cover on stirrup bar. Small erosion stains and spalls at other locations due to tie wires and other debris.
Now	16	0	0	3	
Girders		3	3	Ext S3G1, S4G1, S5G1 East end vertical narrow to medium crack in girder. Minor construction spalls along girders. Spall in G1S1 & G1S6 due to installation of lateral post tensioning cables.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	1				
(Number Of Girders : 48)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 6 Spans, Lengths(m): 24.4-38.8-38.8-30.8-30.8-24.4, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	
Bearings		6	6	Exp at abutments
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Deck underside has minor stains around 50% of weep tubes.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	Yes			Pronounced sag in S2 & S3.
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		4	4	Scaling and delaminations at NW, NE & SW corners.
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0:0)				
Pier Shaft/Piles		4	N	Severe scaling with exposed corroded rebar at base of P3 & P1.-30-Oct-2009 Water too high to confirm
Bracing/Struts/Sheathing		X	X	
Nose Plate		4	4	Not low enough. Scaling rust.
Paint/Coating		4	4	Scaling/worn.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	Yes			Caught at pier 4.
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	Wide cracks on West end.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	2011	Patch and seal cracks in approach ACP					
OTHER ACTION	2011	Seal girder cracks, ensure joints remain water tight.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	51.3/51.4	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	04-Jul-2013		Previous Inspection Date	30-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							