

Bridge Inspection									
Bridge File Number	71265 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1972/1972				Lot No.	2			
Bridge or Town Name	NANTON				Inspector Name	Garry Roberts			
Located Over	WILLOW CREEK, 2.12.25, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:08 C1 46.635				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Jun-2012			
Legal Land Location	SW SEC 26 TWP 14 RGE 2 W5M				Data Entry By	Erin Roberts			
Longitude, Latitude	-114:10:55, 50:11:49				Data Entry Date	16-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney			
Contract Main. Area	CMA27				Review Date	26-Jun-2012			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,980 / 2011 (A)				Dept. Review Date	17-Jul-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	12								
Allowable Load (t):	Single		Semi		Train		----> 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	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									

Utilities (Located at)									
Utility Attachments									
Telephone	East ditch				Gas	50m West & 100m South			
Power	East ditch - 1 wire				Municipal				
Others	Fibre optics @ East RW				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Intersection with Hwy 533 In SAG curve approximately 500 m North				
Vertical Alignment			6	6					
Roadway Width (m)	11.000								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Missing 1 splice bolt				
Guardrail			5	4	Not thriebeam				
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			6	6					
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)						
Special Features						
Special Feature						
(Type :)						
Special Feature						
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			6	4	Fibre rein silica fume concrete Some Light scaling in gutters. Shallow popouts Sp 1 and 2 approx 12 per span.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	No					
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		12				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		N pier				
70		S pier				
Deck Drainage			4	4	Due to drainage between sidewalk and bridge causing corrosion cracking and scaling at Sp 3 - G3.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Post anchor nut not fully engaged @ 30% of posts-no washers under nuts Some grout deterioration @ ped rail posts	
(Type : BRIDGE TUBE)						
Bridge Rail Posts			4	4		
(Type : GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			6	6		
(Type :)						
Sidewalk			7	7		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders			4	4	Curb girder SP. 3-G14 Sp.3-G3 has wide long crack approx. 0.5 m long with corrosion Girders rated from 3 to 5 due to defects @ curbs and overlay. All other girders are good GIRDERS 1+2 ARE UNDER SIDEWALK GIRDERS 3+4 ARE CURB GIRDERS	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 42)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	12			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Rust stains in SP.2 - G 14 & sp.1 G14.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		5	4	Minor erosion gully forming at SW
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8:8)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		7	7	
Paint/Coating		4	4	Superficial surface corrosion.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			9 old piles in channel
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Stream aligns on SW bank
(D/S Direction : E)				Curve @ u/s
Alignment		4	5	
Bank Stability		5	5	
HWM (m below Top of Curb)	4.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	CONCRETE WITH CAST IN CLASS 1 m. @ South. Class 2&3 at North Also mix of Cl.2 and 3
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	Guidebank @ SW
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	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	2012	Investigate and repair corrosion crack at Sp. 3 - G3					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	53.5/55.0	Est. Repl. Yr	2033	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	18-Mar-2014		Previous Inspection Date	08-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							