

Bridge Inspection									
Bridge File Number	72551 S-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	1959/1959				Lot No.	2			
Bridge or Town Name	NANTON				Inspector Name	Garry Roberts			
Located Over	MOSQUITO CREEK, 2.12.12.12, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:10 L1 27.097				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	03-Oct-2011			
Legal Land Location	SW SEC 28 TWP 16 RGE 28 W4M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-113:47:55, 50:22:22				Data Entry Date	10-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA27				Review Date	07-Oct-2011			
Clear Roadway/Skew	11.6 /				Dept. Reviewer Name	Tim Davies			
AADT/Year					Dept. Review Date	17-Nov-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:	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)		In Advance (Y/N)				At Bridge (Y/N)
Posted:	Lane	SB	At Junction (Y/N)		No	In Advance (Y/N)		No	At Bridge (Y/N)
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	Creek ID, curve.								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	FIBRE OPTIC CABLE @ W R/W				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curves 500m to the N and S.				
Vertical Alignment			8	8					
Roadway Width (m)	11.300				1.5m2 pothole developing at South exit approach.				
Approach Bump			5	4					
Guardrail (Y/N)	Yes				Not attached to bridge.				
Guardrail			7	7	Not thriebeam				
Length (m)	38.000								
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 : PO, 1 Spans, Lengths(m): 26.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	5	
Now	0.0	0.0	0.0	5.0	
Wearing Surface			3	3	Chipcoat on epoxy overlay on concrete. 50mm total thickness, chipcoat 30% worn Mostly worn @ E lane
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				Failed section of epoxy overlay @ NE chipsealed over-still lifting @ 10m2 area
Deck Top			N	N	
Deck Rideability			6	5	
Deck Joints			5	5	East 1/2 of South joint is 10mm higher at deck side.
Temperature (deg. C)		12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
35		North			
40		South			
Deck Drainage			4	5	Leakage @ curb cover plates causing minor scaling.
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Curb cracked @ 4th and 9th post from SW Exterior curb spall at SE. and spalling along interior face of East curb.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	10% of bolts are less than fully engaged. 1 A/B but not tightened at 3rd post from NW.
(Type : GALVANIZED STEEL BRIDGE SOLID BEAM (EX. TIMBER RAILS))					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	5		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 1 Spans, Lengths(m): 26.5, A-Ident Number:)				
Girders		7	7	
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : 7)				
Diaphragms/Cross Frame		6	6	Light scaling @ localized areas @ SE.
Bearings		5	5	Corrosion with some pitting @ SE & NW Brg. SE has galvacon at 90%.
Temperature (deg. C)	12			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	
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		5	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Sharp bend U/S
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		4	5	Vertical bank at NorthWest.
HWM (m below Top of Curb)	2.5			No visible HWM
Drift (Y/N)	No			
Slope Protection		5	5	Sandbags displaced but still adequate @ south abut. (Type :)
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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	2012	Tighten 1 loose post A/B nut.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Breakout & recast @ 4th & 9th post from SW and 3rd post from SE. Repair approx 5m2 spalling at East curb.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2012	Reapply chipcoat- remove loose polymer.					
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 pothole 1.5m2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	54.6/55.9	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor North West bank erosion.		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	03-Jul-2013		Previous Inspection Date	26-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							