

Bridge Inspection									
Bridge File Number	72551 N-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1959/1959				Lot No.	3			
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 R1 27.170				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	02-Oct-2011			
Legal Land Location	SW SEC 28 TWP 16 RGE 28 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:47:54, 50:22:23				Data Entry Date	16-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	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
----> 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)		In Advance (Y/N)		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 optics @ West R/W.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curves 500m to North and South.				
Vertical Alignment			8	8					
Roadway Width (m)		11.600							
Approach Bump			6	6					
Guardrail (Y/N)		Yes			Not fastened to bridge.				
Guardrail			6	6					
Length (m)		38.000			Not thriebeam				
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN ENDS							
Drainage			5	5	Minor erosion at SW.				
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	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Chip coat on epoxy overlay on concrete 50mm total thickness. Chipcoat 20% worn. Epoxy starting to lift @ SW & worn to concrete @ South abut deck joint.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			5	5	SEAL IS GOOD @ North - seal has cuts @ South Missing 1 top bolt at SW curb cover plate.	
Temperature (deg. C)		12				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)))						
Gap Size (mm)		Gap Location				
45			S ABUT			
40			N ABUT			
Deck Drainage			4	5	1 down drain @ SE broken. Water from this misses girder-no action	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Minor scaling at SW.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			7	7	3 horizontal channels. 20% of bolts are less than fully into nuts.	
(Type : STEEL NON-STANDARD RAIL)						
Bridge Rail Posts		4	4			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		6	5			
(Type :)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Girders			7	7		
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
(Number Of Girders : 6)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 1 Spans, Lengths(m): 26.5, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	10% corrosion with some pitting @ abuts.
Bearings		5	5	Some exteriors corroded
Temperature (deg. C)	12			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Some hairline cracks with efflorescence @ deck underside. Previous full depth patches.
Stains (Percent Area)	5			
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	Scaled and cracked at NW.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		6	6	
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 General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		4	5	Vertical at NW
HWM (m below Top of Curb)	3.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		6	6	Sandbags.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	6	

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	2014	Reapply chipcoat.					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
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) (%)	54.6/63.2	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor NW 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	02-Jul-2013		Previous Inspection Date	26-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							