

Bridge Inspection											
Bridge File Number	70063 N-1 Bridge				Form Type	CON					
Year Built/Year Supstr	1936/1936				Lot No.	2					
Bridge or Town Name	NISKU				Inspector Name	Wade Nanninga					
Located Over	BLACKMUD CREEK, 6.95.2, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	2:32 R1 13.464				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	25-Apr-2013					
Legal Land Location	NE SEC 6 TWP 51 RGE 24 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-113:31:11, 53:22:47				Data Entry Date	01-May-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA11				Review Date	01-May-2013					
Clear Roadway/Skew	16.8 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	84,430 / 2012 (A)				Dept. Review Date	01-May-2013					
Road Classification	RAD-616.6-130				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:	MS230									----> 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)	No	
Remarks									
Hazard Marker At Bridge (Y/N)		No							
Remarks									
Other Sign Types		Blackmud Creek							

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Fiber Optic E row				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8					
Vertical Alignment			8	8					
Roadway Width (m)		18.000							
Approach Bump			7	6					
Guardrail (Y/N)		Yes			Insufficient posts in approaches. 95.0m on South, 30m on North.				
Guardrail			6	4					
Length (m)		30.000			North end is bulb.				
Current Standard (Y/N)		No							
Termination Type		Turned Down			2 broken posts @ NE, damaged thrie beam.-photo				
Drainage			4	4					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CF, 1 Spans, Lengths(m): 18.3, A-Ident Number:)					
Special Features					
Special Feature		8	8		
(Type : EXT LONGIT POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		7	7	Asphalt.	
(Material Type : ACP)					
(Thickness(mm) : 90)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		X	X	No formal deck joints. Cracks in ACP indicate end of bridge.	
Temperature (deg. C)		19			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage		5	5	No deck drains	
Drains Clogged (Y/N)		No			
Curbs/Median		5	4	Cracking exteriors.	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		7	7	50% of anchor bolts on East rail posts have insufficient thread above anchor. 2 nuts missing - photo. (SE & NE)	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	3		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girders		X	X		
Diaphragms/Cross Frame		X	X		
Bearings		X	X		
Temperature (deg. C)		21			
(Expansion Type :)					
(Fixed Type :)					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside		4	4	Deck underside near curbs has been shotcreted, water stained. The west half is 50mm lower than east half. 0.3m x 0.3m spall @ Hwy c/l near mid span. Two additional spalls appear to be due to air drill.	
Stains (Percent Area)		2			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CF, 1 Spans, Lengths(m): 18.3, A-Ident Number:)				
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		X	X	
Backwalls/Breastwalls		3	N	Concrete deterioration @ NE corner - photo.-July, 2011- water too high.
Wingwalls		3	3	NW wingwall pushing out 250mm @ top and large piece (1.5m high) missing from bottom - photo. All wingwalls spalling.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		5	N	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
Pier Shaft/Piles		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		3	3	GR carried fwd from July 2011
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)	2.1			Drift on top of tension bars.-03-Sep-2009
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Guardrail at NE - 2posts 2 thrie beam					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT 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	2013	Replace 2 anchor nuts.					
OTHER ACTION	2013	Seal crack @ North abutment.					
OTHER ACTION	2013	Re-attach NW wingwall. Patch void and backfill.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	42.8/42.8	Est. Repl. Yr	2022	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	25-Jan-2015		Previous Inspection Date	15-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							