

Bridge Inspection											
Bridge File Number	07398 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1979/1979				Lot No.	2					
Bridge or Town Name	NOLAN BRIDGE				Inspector Name	Garry Roberts					
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	845:04 C1 14.303				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	20-Mar-2012					
Legal Land Location	NE SEC 27 TWP 10 RGE 20 W4M				Data Entry By	Lauren Korte					
Longitude, Latitude	-112:37:27, 49:51:23				Data Entry Date	12-Apr-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey					
Contract Main. Area	CMA25				Review Date	23-Mar-2012					
Clear Roadway/Skew	9.1 / 10 deg. (RHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	2,350 / 2011 (A)				Dept. Review Date	17-Apr-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	40										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS23									----> 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										
Other Sign Types	Grade, Slippery When Wet, Curve.									

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Climbing lanes @ both approaches, curves & hills both ends.				
Vertical Alignment			5	5					
Roadway Width (m)	12.000				1 post bolt not attached at SE. Not thriebeam.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			7	4					
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 4 Spans, Lengths(m): 50-65-65-50, A-Ident Number: A0837-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Transverse cracks spaced .6 - 1.2 m apart. Longitudinal cracks along centerline of road for entire length of bridge. Wide spread 0.5 mm wide 100 to 1000 mm longitudinal cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			4	4	3 Cracked welds @ fingers @ N/B lane @ North abut joint + 3 @ South abut joint, 1 at SBL of A1. South fingers sit up 5mm and bang under traffic.
Temperature (deg. C)		3			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
85		South abutment			
100		North abutment			
Deck Drainage			5	6	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	0.5 mm wide transverse cracks @ 0.5 to 2 m. Curb broken out @ 13th post from South @ East side- but is patched at traffic side.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			8	7	Minor damaged bridgerail post along West side 16th post from NW corner. One bolt sheared @ 15th post from NW. Missing 1 post cap at East side Sp.1.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	7	
Web			8	7	
Stiffeners			8	7	
Splice			8	7	
Weld			7	7	
Diaphragms/Cross Frame			8	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 50-65-65-50, A-Ident Number: A0837-01)				
Paint Condition		5	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	Grout pads @ exteriors @ North abutment breaking @ corners. Corrosion @ NE masonry plate. Rockers all locations & fixed @ pier 2. OVER EXPANDED @ NORTH/SOUTH ABUTS @ 3deg. C
Temperature (deg. C)	3			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	6	Transverse cracks with isolated efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Cracks @ N.W.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	7	
Wingwalls		8	7	
Piles		9	N	
Paint/Coating		4	5	Peeling at SE & SW-isolated.
Abutment Stability		6	6	Abuts appear to have moved towards stream.
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				Map cracking on all.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	Massive piers.
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		8	8	Galvanized nose plate.
(Colour Description :)				
(Colour Code :)				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	7	
Debris (Y/N)	No			
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	Yes			
Slope Protection		5	3	Only on South headslope. Buckling @ toe of South concrete slope protection.
(Type : CONCRETE; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair 1 A/B at bridge post- install 1 approach post bolt. Install 1 post top.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	PATCH CURB @ EAST @ 13TH POST FROM SOUTH- approximately 2m2.					
PATCH DECK							
SEAL DECK	2012	Epoxy seal deck cracks.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	WELD 6 FINGER N+S JOINTS.					
RESET/ PAINT BEARINGS	2012	PATCH NE + NW PADS. GALVACON COAT NW BRG. Reset bearings.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	INSTALL HAZARD MARKERS - ALL 4.					
OTHER ACTION	2012	Remove 2 bottom rows slope protection and replace with Cl.2 rock. -approximately 150m3.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	55.2/42.2	Est. Repl. Yr	2037	Maint. Req'd. (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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	20-Jun-2015		Previous Inspection Date	21-Jan-2009			
Inspection Cycle (Default) (months)	39						

Comment	
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