

Bridge Inspection									
Bridge File Number	77594 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1967/1967				Lot No.	2			
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO NORTH RAM RIVER, 6.161.2.6, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	734:16 C1 57.695				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	02-Dec-2010			
Legal Land Location	NE SEC 2 TWP 38 RGE 15 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-116:01:33, 52:14:31				Data Entry Date	03-Jan-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	16-Dec-2010			
Clear Roadway/Skew	6.4 / 0 deg.				Dept. Reviewer Name	Chris Black			
AADT/Year	60 / 2009 (A)				Dept. Review Date	05-Jan-2011			
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	150								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	----> 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. Posted for 40t; 54t at jct for another bridge.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	4	Sharp curve both directions. Hill to South, bad sight distance to South.				
Vertical Alignment			4	4					
Roadway Width (m)	6.700								
Approach Bump			5	6					
Guardrail (Y/N)	No								
Guardrail			X	X					
Length (m)									
Current Standard (Y/N)	No								
Termination Type	NONE								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>4</b>	<b>4</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, A-Ident Number: </b> )							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.		
<b>Last</b>							
<b>Now</b>	100.0	0.0	0.0	0.0			
Wearing Surface				X	X		
(Material Type : )							
(Thickness(mm) : )							
Lateral Connection Problem (Y/N)		No					
Deck Top			5	N	(Covered with 50 mm gravel - rated what is visible. Top abraded by gravel. Abraded by gravel where visible - photo. 22Nov2005). Snow covered.		
Deck Rideability			6	6			
Deck Joints			X	N	Buffer angle.		
Bump (Y/N)		No					
Deck Drainage			7	7			
Drains Clogged (Y/N)		No					
Curbs/Median			3	N	(Minor spall NW and SW corner - rebar exposed. 22Nov2005). Snow covered.		
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		20					
Bridge Rail			4	4	Single layer with short splice, typical. Minor damage. Improper lap on both sides. (Only 2 A/B per post have nut, typical all posts - photo. 22Nov2005). Rusting.		
(Type : <b>FLEX BEAM</b> )							
Bridge Rail Posts			3	N			
(Type : <b>POST STEEL;POST STEEL</b> )							
Bridge Rail/Posts Coating			3	3			
(Type : <b>PAINT</b> )							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Girders			5	5	Hairline shear crack G6 W leg. Spalls at drift pin locations. (Missing buffer angle at some girder ends, North end - photo. 22Nov2005). Moving is evident by end diaphragm spalls. G7 wide long. crack in AZ, sound concrete (photo).		
Last Complete Inspection Date		02-Dec-2010					
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
Lift or Connector Pocket Grouted (Y/N)		Yes					
(Number Of Girders : <b>8</b> )							
<b>Span Alignment Problems</b>							
Vertical (Y/N)		Yes		Bridge is built level while road is on uphill grade to S.			
Horizontal (Y/N)		No					
<b>Superstructure General Rating</b>			<b>5</b>	<b>5</b>			

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>700</b> )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>305</b> )						
(Width(mm) : <b>305</b> )						
Backwalls/Breastwalls			4	4		
Greatest Height (m)		3.00				
Wingwalls			5	5		
(Total Number of Bearing Piles : <b>5:5</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Piles				6	6	
Paint/Coating				X	X	
Abutment Stability			4	4		
Scour/Erosion			7	7		
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				X	X	
(Type : )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						
Pier Stability			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to meet standard (double layer); install missing nut on post A/B (20).					
SEAL CURBS	2011	NW, SW & SE corners, patch concrete if not done.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Install approach rail.					
OTHER ACTION	2011	Raise front sheathing at North backwall (2 rows).					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.0/53.0</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Check beginning of shear crack 2nd girder from E, S end.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2004.05.30 Bridge should be good until 2017.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	02-Mar-2014		Previous Inspection Date	22-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							