

Bridge Inspection										
Bridge File Number	77596 -1 Bridge				Form Type	PSR PCS				
Year Built/Year Supstr	1971/1971				Lot No.	2				
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava				
Located Over	BROWN CREEK, 6.149.8.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	734:22 C1 7.008				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Dec-2010				
Legal Land Location	NW SEC 2 TWP 44 RGE 17 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-116:21:39, 52:45:49				Data Entry Date	24-Aug-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	16-Dec-2010				
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	120 / 2010 (A)				Dept. Review Date	29-Aug-2011				
Road Classification	RLU-208G-90				Follow-Up By					
Detour Length (km)	220									
Allowable Load (t):	Single		Semi		Train		----> 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.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	35 km/hr, steep grades, trucks use lower gear, curve.								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	WSL gauge station at NE bank.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	4	Winding hilly road with steep grades. Entrance to Brown Creek Provincial Rec. area 50m NW.				
Vertical Alignment			4	4					
Roadway Width (m)	8.000		(Washboard - typical both ends. 25Nov2005).						
Approach Bump			4	N	(Insufficient post / spacing and length. 1 split post @ NE. 2 broken posts @ NW - photo. 25Nov2005). Snow covered.				
Guardrail (Y/N)			Yes						
Guardrail			3	N					
Length (m)	12.000								
Current Standard (Y/N)	No								
Termination Type			TURNED DOWN						
Drainage			6	6					
Approach Road General Rating			4	4					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 8.5-18.3-8.5, A-Ident Number:)					
Special Features					
Special Feature		7	7	Strengthen with 10" I beam across span.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					Snow covered.
Now	100.0	0.0	0.0	0.0	
Wearing Surface			5	N	(Grooves worn off in wheel paths. 25Nov2005).
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			7	N	Snow covered. AIFB AIFB (25Nov2005) (25Nov2005)
Temperature (deg. C)		-6			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
5			South pier		
4			North pier		
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		20			
Bridge Rail			7	N	Double layer. (Not spliced as per S-1405 but adequate. Dirty. 25Nov2005) (With timber blocking at each post. 25Nov2005). (Galvanized flexbeam, paint on posts peeling. 25Nov2005). Snow covered.
(Type : GALVANIZED STEEL FLEX BEAM;FLEX BEAM)					
Bridge Rail Posts			7	N	
(Type : POST STEEL)					
Bridge Rail/Posts Coating			4	N	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			6	6	Girders have minor chips on bottom of both fascias.
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 9)					
Diaphragms/Cross Frame			X	X	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 8.5-18.3-8.5, A-Ident Number:)					
Bearings		7	7	Exp=Neoprene Strip Fixed=Neoprene Strip	
Temperature (deg. C)	1				
(Expansion Type :)					
(Fixed Type :)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		7	7		
Stains (Percent Area)	0				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		6	6		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : PG)					
Special Features					
Special Feature		7	7		
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last					
Now	100.0	0.0	0.0	0.0	
Wearing Surface		6	N	(Grooves worn off in wheelpaths. 25Nov2005).	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		6	6		
Deck Joints		7	N		
Bump (Y/N)					
Deck Drainage		7	7		
Drains Clogged (Y/N)	No				
Curbs/Median		4	N	(Spall under S3 West post over P2 - photo. 25Nov2005). Snow covered.	
(Curb Type : Standard)					
Scaling (Percent Area)	15			Spall at girder end S1G9 at P1.	
Bridge Rail		7	N	(Double layer. Splice not as per S-1405 but adequate. 25Nov2005).	
(Type : GALVANIZED STEEL FLEX BEAM;FLEX BEAM)				(Dirty. 25Nov2005).	
Bridge Rail Posts		7	N		
(Type : POST STEEL)				(Galvanized rail / paint post peeling. 25Nov2005).	
Bridge Rail/Posts Coating		4	N	Snow covered.	
(Type : GALVANIZED)					
Sidewalk		X	X		

Superstructure							
Bridge Component				Last	Now	Explanation of Condition	
(Secondary Span : PG)							
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Girders				4	5	NE has 2 spalls on bottom of legs photo. Wide stained longitudinal crack on SE curb unit. The NW curb unit also has wide longit. cracks (within end 1/4). Cracks/spalls are starting in girder legs at strengthening supports - photos. S1G9 spalled end over P1 - photo. S1G1 - wide longitudinal crack in E leg full length. S1G3 - honeycomb in E leg. S1G6 - E leg cracking emanating from support, 1st support from S abut. S1G7 - spall W leg at 2nd support from S abut. S3G5 - spall W leg @ 2nd support from N abut, med longit.l crack in E leg emanating from 2nd support. S3G9 - spall W leg inside AZ.	
Last Complete Inspection Date		03-Dec-2010					
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
Lift or Connector Pocket Grouted (Y/N)		Yes					
(Number Of Girders : 18)							
Span Alignment Problems							
Vertical (Y/N)		No					
Horizontal (Y/N)		No					
Superstructure General Rating				4	5		
Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : Y)						+2	
(Extended Backwall Piles Spacing(mm) : 900)							
(Total Number of Caps/Corbels : 3:3)						Minor crack in NW cap end (photo). Each abut has two 305x305 TT caps & 1 crowned subcap.	
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Bearing Seats/Caps/Corbels				5	5		
(Type : TREATED TIMBER)							
(Depth(mm) : 305)							
(Width(mm) : 305)							
Backwalls/Breastwalls				5	5	NE corner of abut sheathing is stressed.	
Greatest Height (m)		1.40					
Wingwalls				7	7		
(Total Number of Bearing Piles : 0:0)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now	0	0	0	0			
Piles				6	6		
Paint/Coating				X	X		
Abutment Stability				7	7		
Scour/Erosion				7	7		

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels			7	7	
(Type : STEEL)					
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Pier Shaft/Piles			7	7	
Greatest Height (m)		4.70			
Bracing/Struts/Sheathing			5	5	
Nose Plate			7	7	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					
Pier Stability			7	7	
Scour			7	7	
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			7	7	
Bank Stability			7	7	
HWM (m below Top of Curb)				HWM not visible.	
Drift (Y/N)		No			
Slope Protection			7	7	
(Type :)					
Guidebank/Spurs			7	7	
Adequacy of Opening			7	7	
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating			7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2011	Patch spall under West rail post over P2 & at end of S1G9 over P1, if not yet done.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2011	Remove gravel from deck / curb gutters, if not yet done.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Upgrade approach rails to standard. Replace 3 split / broken posts, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	50.0/52.4	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Check cracks in P/C legs, especially at supports.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	03-Mar-2014		Previous Inspection Date	25-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							