

Bridge Inspection							
Bridge File Number	77590 -2 Bridge			Form Type	PCS		
Year Built/Year Supstr	2001/1967			Lot No.	3		
Bridge or Town Name	NORDEGG			Inspector Name	Owen Salava		
Located Over	CRIPPLE CREEK, 6.161.2.3, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	734:16 C1 49.519			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	02-Dec-2010		
Legal Land Location	SE SEC 19 TWP 37 RGE 14 W5M			Data Entry By	Bryan Wai		
Longitude, Latitude	-115:59:03, 52:11:28			Data Entry Date	21-Feb-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Byron Chelak		
Contract Main. Area	CMA18			Review Date	21-Feb-2013		
Clear Roadway/Skew	6.4 /			Dept. Reviewer Name	Byron Chelak		
AADT/Year	60 / 2011 (A)			Dept. Review Date	21-Feb-2013		
Road Classification	RLU-208G-90			Follow-Up By	Re-enter as structure #2.		
Detour Length (km)	150						
Allowable Load (t):	Single	CS 1 28 GIRDER	Semi	CS 2 49 GIRDER	Train	CS 3 65 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	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Remarks	Not required. Posted 40t / 54t sign @ north junction (SB), not for this bridge.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	Too High - 1.2m to top of curb.						
Other Sign Types	Missing Creek ID signs.						

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	Bridge recently rebuilt. Sharp curve North & South. Limited sight distance.
Vertical Alignment		4	4	
Roadway Width (m)	7.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		9	7	
Length (m)	15.400			
Current Standard (Y/N)	Yes			
Termination Type	TURN DOWN			
Drainage		7	7	
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 2 Spans, Lengths(m): 6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	100				
Now	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Covered by snow.
Deck Rideability			7	7	
Deck Joints			X	X	Buffer angles.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	(Slight grader damage, gravel buildup along gutters. 22Nov2005). Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			9	9	Double layer.
(Type : FLEX BEAM)					
Bridge Rail Posts			9	9	Round.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			9	9	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			6	6	Minor flexural cracks. Spalls have been repaired. Typical flexural cracks.
Last Complete Inspection Date		22-Dec-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 16)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	6	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1300)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings				310 x 94 HP.		
	N (count)	1 (count)	2 (count)			
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 620)						
Backwalls/Breastwalls			7	7	(2.8m East / 1.3m West)	
Greatest Height (m)		3.00				
Wingwalls			7	7		
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				7	7	
Paint/Coating				7	7	
Abutment Stability				7	7	
Scour/Erosion				7	7	Flow impacting North abutment.
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 2)						
Bearing Seats/Caps/Corbels Detail Ratings				310 x 94 HP x 2.		
	N (count)	1 (count)	2 (count)			
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 620)						
(Total Number of Bearing Piles : 6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	(2.8m East / 1.3m West)	
Last						
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		2.80				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				7	7	Galvanized.
(Colour Description :)						
(Colour Code :)						
Pier Stability				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Flow impacts NW wing & North abutment.
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.3			(HWM 1.5m below girder legs. 22Nov2005)
Drift (Y/N)	No			
Slope Protection		8	8	CL 2/3
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
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							
OTHER ACTION	2013	2011-Lower hazard markers to meet standard.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	57.6/57.6	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2005.01.21 New steel substructure in 2001. Precast in good condition. Supstr should be good until 2020.						
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							