

Bridge Inspection										
Bridge File Number	77582 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	1				
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava				
Located Over	ELK CREEK, 6.159.23, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	734:16 C1 14.701				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	01-Dec-2010				
Legal Land Location	SE SEC 5 TWP 36 RGE 12 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-115:40:13, 52:03:47				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	12-Jan-2011				
Road Classification	RCU-208G-90				Follow-Up By					
Detour Length (km)	150									
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 82 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.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Offline.								
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			7	7	Insufficient post / spacing and length.				
Vertical Alignment			7	7					
Roadway Width (m)	7.000								
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			7	7					
Length (m)			12.000						
Current Standard (Y/N)			No						
Termination Type			TURNDOWN						
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 11.6, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
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			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Deck top covered by snow.
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles, covered by snow.
Bump (Y/N)					
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	(Minor plow damage. 23Nov2005).
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Single layer with short splice & improper lap. 30% peeling.
(Type : FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			N	6	Flexural Unknown.
Last Complete Inspection Date		01-Dec-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 8)					
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)				Viewed from banks.		
(Extended Backwall Piles Spacing(mm) : 900)				Too short, too low.		
(Total Number of Caps/Corbels : 1:1)				Wide crack @ SW end, girders biting into caps - suspect rot. Caps both sag at centre.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				1		
Now	0	0	0	1		
Bearing Seats/Caps/Corbels				3	3	
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls			7	6		
Greatest Height (m)		2.00				
Wingwalls			4	4		
				Extended backwall, short & low though appears to contain fill.		
(Total Number of Bearing Piles : 5:5)				Wide checking in some piles. Possible rot in old timber.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				N	N	
Scour/Erosion				N	N	
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
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)		
Last						
Now						
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			
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				NW channel directed at bank behind NW backwall. Possibly eroding into road fill, unsure with snow coverage.
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		5	5	Minor vertical cut bank, not affecting bridge.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	N	Some rocks at corners. Snow covered.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to double layer to meet standard.								
SEAL CURBS										
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING	2011	Remove gravel from deck, if not done.								
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS	2011	Pile & caps, if not done.								
REPAIR/REPLACE TIMBER CAPS	2011	Both caps.								
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2011	Reinstall hazard markers to meet standard.								
OTHER ACTION	2011	Upgrade approach rail to meet standard.								
OTHER ACTION	2011	Assess for replace/repair.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.4/62.4	Est. Repl. Yr	2016	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	Dave Lam		Previous Assistant's Name							
Next Inspection Date	01-Mar-2014		Previous Inspection Date	23-Nov-2005						
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to double layer to meet standard.	Defer, low priority, low traffic volumes.			
SEAL CURBS						
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING	2011	Remove gravel from deck, if not done.	Defer, low priority, deck drains not clogged.			
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS	2011	Pile & caps, if not done.	Cored 2011			
REPAIR/REPLACE TIMBER CAPS	2011	Both caps.	Defer, not required			
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2011	Reinstall hazard markers to meet standard.	To operations			
OTHER ACTION	2011	Upgrade approach rail to meet standard.	To operations			
OTHER ACTION	2011	Assess for replace/repair.	Defer			
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.4/62.4	Est. Repl. Yr	2016	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	South abutment- Trace rot in one core of abutment cap. Rot and localized bulge in two cores of P2. Trace rot in bottom core of P3. North abutment- Beginning rot in one West end core of cap on the. Piles cored good.		
Maintenance Reviewed By	Andrew Smikles		Date	07-Feb-2012	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	01-Mar-2014	Previous Inspection Date	23-Nov-2005
Inspection Cycle (Default) (months)	39		
Comment			