

Bridge Inspection							
Bridge File Number	70764 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1954/1954			Lot No.	1		
Bridge or Town Name	NEERLANDIA			Inspector Name	Wade Nanninga		
Located Over	TRIBUTARY TO SHOAL CREEK, 8.11.84.12.9, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	769:02 C1 15.831			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Oct-2011		
Legal Land Location	NW SEC 22 TWP 61 RGE 3 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:22:37, 54:17:40			Data Entry Date	26-Oct-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA10			Review Date	25-Oct-2011		
Clear Roadway/Skew	7.8 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	910 / 2010 (A)			Dept. Review Date	14-Nov-2011		
Road Classification	RCU-208-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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	
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.	Gas	
Power	3 lines East r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field approach @ SE, SW, NW corners.
Vertical Alignment		8	8	
Roadway Width (m)	7.800			Bump @ both approaches.
Approach Bump		5	4	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	15.700			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	4	SW road runoff eroding fill behind wingwall.
Approach Road General Rating		5	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 1 Spans, Lengths(m): 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				10	
Now	0.0	0.0	0.0	20.0	
Wearing Surface			3	3	ACP cracked on girder lines beginning to ravel - photo.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			5	3	Bump @ both abutments/short span. Pot holes @ girder lines.
Deck Joints			N	N	Paved over.
Bump (Y/N)		Yes			
Deck Drainage			4	4	Eroding fill behind SW wing.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Light scaling
(Curb Type : Standard)					
Scaling (Percent Area)		20			
Bridge Rail			8	4	Double layer but not standard splice detail. Dirty and faded coating
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating			8	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				5	
Now	0	0	8	0	
Girders			3	2	Hairline flexural cracks. Longitudinal crack/spall within AZ in both legs, girders G2-G10. G2,3,4,5,6,8,9,11 have 20% loss of section on North bars. 10 inside girders & 2 curb girders. Curb units cracking
Last Complete Inspection Date		10-Oct-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		20			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	2	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 8:6)						
Both caps shimmed with TT plank to fit grade 75mm North, 150mm South.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Horiz. crack in South subcap.	
Last					300x300 subcap	
Now						
Bearing Seats/Caps/Corbels				7	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	4	Loss of fill @ SW corner.
Greatest Height (m)		3.00				
Wingwalls				5	4	NW corner fire damaged.
(Total Number of Bearing Piles : 8:8)						
All piles slightly bowed from backwall pressure.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	P8AB2 wide (10mm) check	
Last						
Now						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				4	4	Local scour under bridge holding water.
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				4	4	TT struts. Installed on flat.
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)	Yes			Old piles
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	Not visible
HWM (m below Top of Curb)				
Drift (Y/N)	No			
Slope Protection		4	4	Scour hole under bridge.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
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	2011	Patch ACP until replaced.					
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	2012	Replace structure					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	55.5/51.0	Est. Repl. Yr	2012	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Low rating advisory sent Oct 2011		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	Brent Herrick		Previous Assistant's Name				
Next Inspection Date	10-Jan-2015		Previous Inspection Date	29-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							