

Bridge Inspection									
Bridge File Number	76813 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1975/1975				Lot No.	3			
Bridge or Town Name	NEERLANDIA				Inspector Name	Todd Warshawski			
Located Over	TRIBUTARY TO SHOAL CREEK, 8.11.84.12.8, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	661:04 C1 2.177				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-May-2010			
Legal Land Location	SW SEC 14 TWP 62 RGE 3 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:20:36, 54:21:21				Data Entry Date	22-Jun-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA10				Review Date	03-Jun-2010			
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	160 / 2009 (A)				Dept. Review Date	29-Jun-2010			
Road Classification	RCU-208G-90				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	Not to standard height, 300mm low								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	3 lines North r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Gravel road. Residential & field access East & West.				
Vertical Alignment			8	8					
Roadway Width (m)	11.100				Strike damage, still functional				
Approach Bump			7	5					
Guardrail (Y/N)	Yes								
Guardrail			N	5					
Length (m)	15.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down				Windrow buildup.				
Drainage			7	4					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last		Now	Explanation of Condition
(Primary Span : VS, 1 Spans, Lengths(m): 7.6, A-Ident Number:)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	50.0	0.0	0.0	0.0	
Wearing Surface			N	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)					
Deck Top			N	6	Worn down by gravel.
Deck Rideability			7	6	
Deck Joints			N	4	Buffer angles, 3 missing
Bump (Y/N)		Yes			
Deck Drainage			N	5	No deck drains.
Drains Clogged (Y/N)					
Curbs/Median			N	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	4	Double layer, improper lap.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			N	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			4	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			8	7	20mm gap between G4 and G5.
Last Complete Inspection Date		27-May-2010			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	7	

Substructure									
Bridge Component				Last	Now	Explanation of Condition			
Abutments									
(Extended Backwall Piles (Y/N) : Y)						East cap not bearing fully on 3 piles. Plywood shims are not effective. East cap rotated 5 deg. due to backwall movement.			
(Extended Backwall Piles Spacing(mm) : 1700)									
(Total Number of Caps/Corbels : 3:3)									
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Bearing Seats/Caps/Corbels				5	5				
(Type : TREATED TIMBER)									
(Depth(mm) : 356)									
(Width(mm) : 305)									
Backwalls/Breastwalls				6	5	East backwall pushing inward. Piles have backwall clamps.			
Greatest Height (m)		2.70							
Wingwalls				N	6				
(Total Number of Bearing Piles : 9:9)						East backwall movement has reduced bearing on P3-5.			
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Piles				5	5				
Paint/Coating				X	X				
Abutment Stability				5	5				
Scour/Erosion				N	5				
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		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible eadfall and gravel pile.
Drift (Y/N)	Yes			
Slope Protection		X	7	
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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		2010	Adjust lapping						
SEAL CURBS									
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING		2010	Remove windrows.						
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		2010	Shim piles on East abut.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)		72.2/66.7	Sufficiency Rating (Last/Now) (%)		71.1/66.6	Est. Repl. Yr	2024	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor backwall pressure and pile movement.				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	27-Aug-2013		Previous Inspection Date		02-Mar-2007				
Inspection Cycle (Default) (months)	39								
Comment									