

Bridge Inspection									
Bridge File Number	74397 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	RADWAY				Inspector Name	Kris Bosters			
Located Over	NAMEPI CREEK, 6.57, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	28:06 C1 5.242				Assistant Name	Brian Cote			
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Apr-2012			
Legal Land Location	NE SEC 31 TWP 58 RGE 20 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-112:57:33, 54:03:41				Data Entry Date	25-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA07				Review Date	25-Apr-2012			
Clear Roadway/Skew	13.8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	2,710 / 2011 (A)				Dept. Review Date	04-May-2012			
Road Classification	RAU-213.4-120				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:	MS23						---> 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)	No								
Remarks	Hazard markers not required.								
Other Sign Types	File tags on both abutment caps.								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas	Approx 100 North.			
Power	3 lines to North r/w.				Municipal				
Others	Fibre optic S r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve to East & West. Passing both directions				
Vertical Alignment			8	8					
Roadway Width (m)	13.300				SW corner has 12.2 m Type VI to accommodate approach. Minor bends / dents, still functional. SE turn down has incorrect lap joint. Insufficient length & post next to bridge.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	12.200								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 6-10-6, 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	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Chip coat on 50mm asphalt. 7 lines of cracks between per span indicating connectors not working. Few potholes developing WBL - photo 1. Loss of ACP NW shoulder.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Paved over.
Bump (Y/N)		Yes			
Deck Drainage			5	5	No drain holes. Deck on grade towards West -
Drains Clogged (Y/N)					
Curbs/Median			6	4	4 lift pockets on North side not grouted. Vertical crack @ 300 intervals. Spall on NW curb. <1%.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			6	6	Minor deflection North rail.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	5	Typical diagonal cracks on girder undersides of all curbs. Less than 0.5m. Staining on underside of deck at connector pockets. Chips from erection on NE fascia. Longitudinal narrow crack medium height curb fascia on all curbs. Hairline to narrow width longitudinal cracks @ c/l of all girders, all spans. Photo .
Last Complete Inspection Date		10-Apr-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1250)						
(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				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	4	
Greatest Height (m)		2.00				
Wingwalls				4	4	
(Total Number of Bearing Piles : 13:13)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				5	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 665)						
(Total Number of Bearing Piles : 14:13)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Pier Shaft/Piles				5	5	
Greatest Height (m)		3.70				
Bracing/Struts/Sheathing				7	7	
Horizontal check East cap (7mm wide). West cap splinters, showing discolouration under side on West abutment. Backwall scabs installed too low, up to 500mm on east cap.						
Minor loss of fill at E abutment due to insufficient backwall depth. 1m long x 0.4m wide x 0.2m deep erosion channel forming						
Small hole tin top @ SE & damaged SW. SW wing pile splintered.						
Galvanizing on caps & capitals.						
West bent has 14 piles. U/S piles suffering abrasion. East bent has 13 piles. South pile on East pier not centered under cap. Stubs of old piles remain.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		5	5	Nose plate on east pier 150mm above ground level.
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	
Scour		5	5	
Debris (Y/N)	Yes			
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.
Drift (Y/N)	No			
Slope Protection		6	4	1m x 0.4m x 0.2m erosion channel forming on E headslope
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch potholes.					
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	2012	Fill lift pockets with grout.					
OTHER ACTION	2012	Replace damaged tin tops.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	61.2/58.4	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor E headslope erosion		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	10-Jan-2014		Previous Inspection Date	22-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							