

Bridge Inspection											
Bridge File Number	77059 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1974/1974				Lot No.	1					
Bridge or Town Name	ANZAC				Inspector Name	Wade Nanninga					
Located Over	GREGOIRE RIVER, 8.11.39.4.1, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	881:24 C1 38.234				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	12-Jul-2012					
Legal Land Location	SE SEC 7 TWP 86 RGE 7 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-111:05:13, 56:26:17				Data Entry Date	18-Jul-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA07				Review Date	13-Jul-2012					
Clear Roadway/Skew	9.8 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	3,520 / 2011 (A)				Dept. Review Date	25-Jul-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	250										
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	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)	No								
Remarks	Not required.								
Other Sign Types	Curve, 85 kph.								

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Bridge in curve. Bridge is superelevated. No passing to South.				
Vertical Alignment			7	7					
Roadway Width (m)	9.700				Both approaches settled				
Approach Bump			6	4					
Guardrail (Y/N)	Yes				Insufficient posts. Creased NE rail, still functioning.				
Guardrail			4	4					
Length (m)	22.800				Split post @ SE				
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VH, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			5	4	Longitudinal cracks on most girder lines & transverse cracking over piers. Potholes in all 3 spans.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	Paved over.
Deck Rideability			7	5	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Spot delam and medium scaling
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			5	5	Double layer flexbeam. 10% loose AB nuts on N rail
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	SP1 G2,3,5,7, SP2 G1,2,3,6, SP3G3,5,6,7,10 all rated "3" due to spalling/cracking in both legs.
Last	11	0	1	5	
Now	0	0	2	13	
Girders			2	2	Wide cracks in both legs of AZ in VH units with exposed rebar & spalled areas with sound concrete on 1 leg. 2 int. full span which are SM girders o.k. Spalling of diaphragms at piers and abutment due to stress on drift pins from abutments leaning towards stream. S3 G2 & S1G6 & S2G1 spalling in AZ 2 legs unsound concrete above top 1/2 rebar.
Last Complete Inspection Date		12-Jul-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		10			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			2	2	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 900)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
Backwalls/Breastwalls				4	4	Lower timbers in West backwall are bowed, separated and have signs of rot. Losing backfill.
Greatest Height (m)		2.10				
Wingwalls				5	5	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				Cored in 2012 - no rot present.		
Now						
Piles				5	5	
Paint/Coating				4	4	Pitting minor loss of section
Abutment Stability				5	4	Abutments leaning towards stream, drift pins spalling girder diaphragm concrete.
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				Pitted scaling caps.		
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				Cored in 2012 - norot present.		
Now				Wide checks in most piles.		
Pier Shaft/Piles				5	5	
Greatest Height (m)		2.30				
Bracing/Struts/Sheathing				5	5	Few planks to deflect debris. -loose
Nose Plate				X	X	
Paint/Coating				3	4	Cap severely rusted, pitting and scaling. Minor loss of section.
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		7	7	
Debris (Y/N)	Yes			
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		5	6	Turns 45 deg d/s / u/s.
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	6	

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	2012	Assess & rehab / replace.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	48.7/47.7	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders and corrosion until replaced. Inspect @ 1/2 cycle until repaired/replaced. Low rating advisory sent 13-July-2012 to Rizan Hussain.		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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	12-Oct-2015		Previous Inspection Date	08-Sep-2010			
Inspection Cycle (Default) (months)	39						
Comment							