

Bridge Inspection										
Bridge File Number	75305 -1 Bridge				Form Type	SG PCS				
Year Built/Year Supstr	1961/1961				Lot No.	2				
Bridge or Town Name	KIKINO				Inspector Name	Wade Nanninga				
Located Over	AMISK RIVER, 7.25, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	36:26 C1 39.798				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	14-Dec-2012				
Legal Land Location	SW SEC 26 TWP 63 RGE 14 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-112:00:53, 54:28:28				Data Entry Date	16-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA08				Review Date	09-Jan-2013				
Clear Roadway/Skew	9.2 /				Dept. Reviewer Name	Paul Catt				
AADT/Year	1,280 / 2011 (A)				Dept. Review Date	18-Jan-2013				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	41									
Allowable Load (t):	Single		Semi		Train		----> 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	Add load information to BIM.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Narrow Bridge, Amisk River.								

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	PVC conduit under West curb.				Gas					
Power	1 line OH 35 m East of c/l & 10 m North of bridge.				Municipal					
Others	WSC flow guage at NW.				Problem (Y/N)		Yes			
Remarks	Telus conduit broken in 2 places along West side north span.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Residential entrance to SE. Curve to North & South. Long sag curve, passing permitted.				
Vertical Alignment			7	7					
Roadway Width (m)	12.000								
Approach Bump			7	7					
Guardrail (Y/N)			Yes		Transition connected to bridge. NW has collision damage. No thrie beam, some recycled posts used.				
Guardrail			4	4					
Length (m)			34.000						
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 : RB, 3 Spans, Lengths(m): 10.7-18.3-10.7, A-Ident Number: A0383-01)								
Special Features								
Special Feature			X					
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)	Gutters snow covered.			
Last	5	0	0	0				
Now	10.0	0.0	0.0	0.0				
Wearing Surface			9	9	Silica fume fibre reined o/l.			
(Material Type : CONCRETE)								
(Thickness(mm) : 70)								
Deck Top			N	N				
Deck Rideability			8	8				
Deck Joints			9	8	Strip seal. Strip seal.			
Temperature (deg. C)		-8						
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))								
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))								
Gap Size (mm)		Gap Location						
60		A1 (S)						
55		P1						
45		P2						
60		A2 (N)						
Deck Drainage			5	5	{Drains on S2 have scaling rust. Salt contamination stains surrounding drains.			
Drains Clogged (Y/N)		No						
Curbs/Median			4	N	Patch spalling, scaling,snow covered.-30-Nov-2010			
(Curb Type : Standard)								
Scaling (Percent Area)		5						
Bridge Rail			7	7	5% insufficient threads.30-Nov-2010 Anchorage @ SE parapet spalled.-May,2010.			
(Type : GALVANIZED STEEL BRIDGE TUBE)								
Bridge Rail Posts			4	N				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			7	7				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			5	5	Slight sag in in all girders. G4 flg splice has edge discontinuities. Cpl weld have tack welds not incorporated in final welds. Dia stiffers are riveted, some welded. No center X bolts, conc end dia.'s.			
Flange			5	5				
Web			5	5				
Stiffeners			5	5				
Splice			5	5				
Weld			5	5				
Diaphragms/Cross Frame			5	5				

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 10.7-18.3-10.7, A-Ident Number: A0383-01)						
Paint Condition		5	5	Beige Girder ends touched up in 2001-24-Jan-2007 Bottom flange peeling on ext girders.		
(Colour Description :)						
(Colour Code :)						
Touchup Required (Y/N)	No					
Bearings		6	6			
Temperature (deg. C)	-10					
(Expansion Type : SLIDING PLATE)						
(Fixed Type : PINNED BEARING)						
Coating Adequate (Y/N)	Yes					
Functioning (Y/N)	Yes					
Deck Underside		5	5	Salt stains surrounding drains.		
Stains (Percent Area)	1					
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating		5	5			
Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Secondary Span : SMC)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow in gutters	
Last	5	0	0	0		
Now	10.0					
Wearing Surface		9	8			
(Material Type : CONCRETE)						
(Thickness(mm) : 100)						
Lateral Connection Problem (Y/N)	No					
Deck Top		N	N			
Deck Rideability		8	8			
Deck Joints		8	8			
Bump (Y/N)	No					
Deck Drainage		5	5			
Drains Clogged (Y/N)	No					
Curbs/Median		4	N	Patches spalling-scalling SNOW COVERED.		
(Curb Type : Standard)						
Scaling (Percent Area)	5					
Bridge Rail		7	7	5% insufficient threads.-30-Nov-2010		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4	N			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		7	7			
(Type : GALVANIZED)						

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Secondary Span : SMC)						
Sidewalk				X	X	
Girder Detail Ratings						
		N (count)	1 (count)	2 (count)	3 (count)	
Last						
Now						
Girders				4	4	Hairline longitudinal cracks S3 emanating out from pier bearing area. Less than 0.5m.
Last Complete Inspection Date		14-Dec-2012				
Cracking (Y/N)		Yes				Spalls @ G1SP1 and SP3 girder ends at pier.
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : 18)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				4	4	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(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 : CONCRETE)						
(Depth(mm) : 800)						
(Width(mm) : 600)						
Backwalls/Breastwalls				7	7	{Some wide horizontal cracking, North breastwall. May 5, 2009 CP inspection}
Greatest Height (m)		1.20				
Wingwalls				5	5	Patched
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
		N (count)	1 (count)	2 (count)	3 (count)	
Last		100	0	0	0	
Now		100	0	0	0	
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				7	7	
Scour/Erosion				7	7	

Substructure								
Bridge Component				Last	Now	Explanation of Condition		
Piers/Bents								
(Type : PIER-SOLID)				P1 crks injected, spalls patched. P2 has delam cracks under G1 & G9..				
(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							4	4
(Type : CONCRETE)								
(Depth(mm) :)								
(Width(mm) :)								
(Total Number of Bearing Piles : 1:1)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Pier Shaft/Piles				7	7			
Bracing/Struts/Sheathing				X	X			
Nose Plate				7	7			
Paint/Coating				5	5			
(Colour Description :)				Noseplate rusting. Capseal. Gray. Lower 300 not painted.				
(Colour Code :)								
Pier Stability				7	7			
Scour				7	N			
Debris (Y/N)		No						
Substructure General Rating				4	4			
Structure Usage								
				Last	Now	Explanation of Condition		
Channel								
(U/S Direction : W)				30 degree bend U/S.				
(D/S Direction : E)								
Alignment				6	7			
Bank Stability				7	7			
HWM (m below Top of Curb)				HWM not visible. (8" below bottom flange 1962. 24/Jan/2007)				
Drift (Y/N)		No						
Slope Protection				7	7			
(Type : NATURAL; NATURAL)								
Guidebank/Spurs				X	X			
Adequacy of Opening				5	7			
(Fish Compensation Measure 1 : NONE)								
(Fish Compensation Measure 2 : NONE)								
Channel General Rating				5	7			

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Extend anchor bolt nuts, if not done.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Patch spalls & scaled areas, if not done.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch cracked pier caps.					
OTHER ACTION	2013	Repair spalled girder end at P1 & P2.					
OTHER ACTION	2013	Approach guard rail on NW.					
OTHER ACTION	2013	Notify TELUS - damaged conduit.					
OTHER ACTION	2013	Upgrade guardrail to std.					
OTHER ACTION							
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Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	45.6/48.5	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes

Special Comments for Next Inspection	Monitor G4 c. pl. Weld with edge flaw - crack potential- during future level 2 inspections.		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	Ed Kowal	Previous Assistant's Name			
Next Inspection Date	14-Sep-2014	Previous Inspection Date	30-Nov-2010		
Inspection Cycle (Default) (months)	21				
Comment					