

Bridge Inspection											
Bridge File Number	76117 -1 Bridge				Form Type	SG PCS					
Year Built/Year Supstr	1965/1965				Lot No.	2					
Bridge or Town Name	HONDO				Inspector Name	Wade Nanninga					
Located Over	OTAUWAW RIVER, 8.11.80.16, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	2:46 C1 32.304				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	28-Mar-2013					
Legal Land Location	NW SEC 4 TWP 72 RGE 3 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:24:15, 55:12:31				Data Entry Date	16-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA10				Review Date	12-Apr-2013					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	2,370 / 2012 (A)				Dept. Review Date	23-Apr-2013					
Road Classification	RAU-210-110				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:	CS750									----> 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	Not required.								
Other Sign Types	"Otauwau River" @ NW & SE.								

Utilities (Located at)										
Utility Attachments										
Telephone	East & West r/w.				Gas					
Power					Municipal					
Others	Stream gauge @ SW.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Insufficient posts. Not thrie beam type.				
Vertical Alignment			7	7					
Roadway Width (m)		10.600							
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			6	6					
Length (m)		45.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			4	4					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : <b>WG, 3 Spans, Lengths(m): 6.1-36.6-6.1, A-Ident Number: A0533-01</b> )								
<b>Special Features</b>								
Special Feature			X					
(Type : )								
Special Feature			X					
(Type : )								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)				
<b>Last</b>								
<b>Now</b>	10.0							
Wearing Surface			5	5	Chipseal 5% missing.			
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )								
(Thickness(mm) : <b>50</b> )								
Deck Top			N	N				
Deck Rideability			5	5				
Deck Joints			5	5	Tar material poured in joints, coming out of pier joints.			
Temperature (deg. C)		-5						
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )								
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )								
Gap Size (mm)		Gap Location						
95		East abutment						
80		East pier						
90		West pier						
95		West abutment						
Deck Drainage			7	7				
Drains Clogged (Y/N)		No						
Curbs/Median			4	5	3 curb exterior cracked on outside of posts, light scaling.			
(Curb Type : <b>Standard</b> )								
Scaling (Percent Area)		3						
Bridge Rail			7	7	Numerous nuts on post anchors have insufficient thread extension. 10% post grout pad delaminating. Loose nuts @ 4th and 6th posts from SW.-photo.			
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )								
Bridge Rail Posts		3	3					
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )								
Bridge Rail/Posts Coating		7	7					
(Type : <b>GALVANIZED</b> )								
Sidewalk			X	X				
<b>Girder/Beam</b>								
Cover Plate			X	X				
Flange			7	7				
Web			7	7				
Stiffeners			7	7				
Splice			7	7				
Weld			7	7				
Diaphragms/Cross Frame			N	7				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 6.1-36.6-6.1, A-Ident Number: A0533-01</b> )					
Paint Condition		5	8	New paint	
(Colour Description : <b>GREEN</b> )					
(Colour Code : <b>503-103</b> )					
Touchup Required (Y/N)	No				
Bearings		5	4	Grout pad cracked. Fixed bearings inset in West cap. #4 & 5 rotated - sole plate leaning towards backwall.	
Temperature (deg. C)	-5				
(Expansion Type : <b>ROCKER BEARING</b> )					
(Fixed Type : <b>NEOPRENE STRIP BEARING;PINNED BEARING</b> )					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		N	5	Bay 3 - 100mm spall. Random cracking.	
Stains (Percent Area)	0				
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
<b>Superstructure General Rating</b>		<b>5</b>	<b>4</b>		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : <b>SMC</b> )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	10.0				
Wearing Surface		4	5	Chipseal 3% missing.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		6	5		
Deck Joints		4	5	See main span.	
Bump (Y/N)	Yes				
Deck Drainage		7	7		
Drains Clogged (Y/N)	No				
Curbs/Median		7	7		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	0				

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Secondary Span : <b>SMC</b> )								
Bridge Rail		7	7	Post grout pad delaminating. Loose nut @ NW corner.				
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )								
Bridge Rail Posts		3	3					
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )								
Bridge Rail/Posts Coating		7	7					
(Type : <b>GALVANIZED</b> )								
Sidewalk		X	X					
Girder Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>								
Girders		4	4	Hairline longitudinal cracking all girders. N span G8 chipped corner with exposed rebar construction damage.				
Last Complete Inspection Date		28-Mar-2013						
Cracking (Y/N)		Yes						
Spalling (Percent Area)		1						
Lift or Connector Pocket Grouted (Y/N)		Yes						
(Number Of Girders : <b>20</b> )								
Span Alignment Problems								
Vertical (Y/N)		No						
Horizontal (Y/N)		No						
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>					
Substructure								
Bridge Component		Last	Now	Explanation of Condition				
<b>Abutments</b>								
(Extended Backwall Piles (Y/N) : <b>N</b> )					Missing NW bridge plaque. Similar at SE wingwall.			
(Extended Backwall Piles Spacing(mm) : )								
(Total Number of Caps/Corbels : <b>1:1</b> )					Patched			
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>								
Bearing Seats/Caps/Corbels		4	6					
(Type : <b>CONCRETE</b> )								
(Depth(mm) : )								
(Width(mm) : )								
Backwalls/Breastwalls		X	X					
Greatest Height (m)		1.50						
Wingwalls		5	4	Cracked @ SW				
(Total Number of Bearing Piles : <b>0:0</b> )								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>	99	0	0	0				
<b>Now</b>	99							
Piles		N	N					
Paint/Coating		X	X					
Abutment Stability		7	7					

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
Scour/Erosion		N	6					
<b>Piers/Bents</b>								
(Type : <b>PIER-SOLID</b> )				Pier caps patched but there are small gaps between top of cap & girder bearing areas.				
(Total Number of Caps/Corbels : <b>1:1</b> )								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
<b>Last</b>								
<b>Now</b>								
Bearing Seats/Caps/Corbels			5				5	
(Type : <b>CONCRETE</b> )								
(Depth(mm) : )								
(Width(mm) : )								
(Total Number of Bearing Piles : <b>0:0</b> )								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>	1							
Pier Shaft/Piles			5	N				
Bracing/Struts/Sheathing			X	X				
Nose Plate			X	X				
Paint/Coating			X	X				
(Colour Description : )								
(Colour Code : )								
Pier Stability			7	7				
Scour			N	N				
Debris (Y/N)		No						
<b>Substructure General Rating</b>			<b>4</b>	<b>5</b>				
Structure Usage								
		Last	Now	Explanation of Condition				
<b>Channel</b>								
(U/S Direction : <b>S</b> )								
(D/S Direction : <b>N</b> )								
Alignment			5	5				
Bank Stability			5	5				
HWM (m below Top of Curb)		3.9		Drift on banks.-Jul, 2011				
Drift (Y/N)		Yes						
Slope Protection			N	6				
(Type : <b>CONCRETE; RIP RAP; CONCRETE; RIP RAP</b> )								
Guidebank/Spurs			X	X				
Adequacy of Opening			7	7				
(Fish Compensation Measure 1 : <b>NONE</b> )								
(Fish Compensation Measure 2 : <b>NONE</b> )								
<b>Channel General Rating</b>			<b>5</b>	<b>5</b>				

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Tighten loose A/B nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
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	2013	Repair NE erosion gully.-if not done					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>50.2/52.5</b>	Est. Repl. Yr	2029	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor bearings, wingwalls , @ SP3G8.		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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	28-Dec-2014		Previous Inspection Date	13-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							