

Bridge Inspection										
Bridge File Number	85047 WS1-9 Bridge					Form Type	SG			
Year Built/Year Supstr	2011/2011					Lot No.	2			
Bridge or Town Name	ANTY HDY/YHT					Inspector Name	Randy Bredo			
Located Over	216:06 R1 24.497;216:06 L1 24.549;RAMP 4098-3 G					Inspector Class	BR CLS A			
Located On	RAMP 4098-3 B					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	28-Apr-2012			
Legal Land Location	SW SEC 17 TWP 53 RGE 25 W4M					Data Entry By	Jill Potts			
Longitude, Latitude	-113:39:27, 53:34:32					Data Entry Date	07-May-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Dave Lam			
Contract Main. Area	ANTHONY HENDAY DRIVE					Review Date	05-May-2012			
Clear Roadway/Skew	13.9 /					Dept. Reviewer Name	Brent Herrick			
AADT/Year						Dept. Review Date	12-Jun-2012			
Road Classification						Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CL800					----> Primary Span				

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		Yes								
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	No southbound traffic.									
Required Load Posting (t)		Single		Semi		Truck Train				
Posted Loading (t)		Single		Semi		Truck Train				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	NB	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										

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Light standards.				Problem (Y/N)	No			
Remarks									

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment					7	NW transition gap is 25mm and bolts only hanging on by a thread.			
Vertical Alignment					7				
Roadway Width (m)		13.900							
Approach Bump					6				
Guardrail (Y/N)		Yes							
Guardrail					3				
Length (m)		30.000							
Current Standard (Y/N)		Yes							
Termination Type		Attenuation							
Drainage					7				
Approach Road General Rating					7				

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 1 Spans, Lengths(m): 58.488, 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			8	H2 with waterproofing system.	
(Material Type : ACP)					
(Thickness(mm) : 80)					
Deck Top			N		
Deck Rideability			8		
Deck Joints			3	Abutment 2 has a failed gland at 2 locations in the travel lane (1.5 and 1.2m long). Failure is within the gland itself. Abutment 1 joint has water stains below indicating it leaks also. Abutment 1 armour plates flex at 3 locations which may give trouble later on.	
Temperature (deg. C)	10				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
65		A1 - Armoured gland - exp.			
78		A2 - Gland wabo - fixed			
Deck Drainage					
Drains Clogged (Y/N)	No		7	Weep tubes are a weak design. No drains.	
Curbs/Median					
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
Scaling (Percent Area)	0		4	SW corner has caulking failing.	
Bridge Rail					
(Type : GALVANIZED STEEL BRIDGE TUBE)			8		
Bridge Rail Posts					
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)			8		
Bridge Rail/Posts Coating					
(Type : GALVANIZED)			8		
Sidewalk					
			X		
Girder/Beam					
Cover Plate			X		
Flange			8		
Web			8		
Stiffeners			8		
Splice			8		
Weld			N		
Diaphragms/Cross Frame					
			8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 58.488, A-Ident Number:)				
Paint Condition			8	
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings			N	Too high to inspect.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps			8	
(Type : CONCRETE)				
Backwalls/Breastwalls			4	NE corner of breastwall has insert scars that have been abandoned.
Wingwalls			8	
Piles			N	
Paint/Coating			4	Coating is incomplete.
Abutment Stability			8	
Scour/Erosion			X	
Piers/Bents				
(Type :)				
Bearing Seats/Caps			X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles			X	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			X	
(Colour Description :)				
(Colour Code :)				
Pier Stability			X	
Scour			X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			7	
Traffic Safety Features			X	
Type				
Slope Protection			8	
(Type : CONCRETE; CONCRETE)				
Bank Stability			8	
Drainage			8	
Grade Separation General Rating			7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	Repair caulking SW corner.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repair gland A2. Repair leakage A1.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair failed caulking at barrier vert. joints.					
OTHER ACTION	2012	Finish grading on corners.					
OTHER ACTION	2012	Finish coating concrete.					
OTHER ACTION	2012	Install advance vertical clearance sign.					
OTHER ACTION	2012	Repair concrete insert scars.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/76.0	Est. Repl. Yr	2087	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor joint armour plates for becoming loose.		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			Previous Assistant's Name				
Next Inspection Date	28-Jan-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						

Comment	
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