

Bridge Inspection									
Bridge File Number	85012 S-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	2005/2005				Lot No.	3			
Bridge or Town Name	ANTHONY HENDAY DRIVE				Inspector Name	Wade Nanninga			
Located Over	WEDGEWOOD CREEK, 6.99, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	216:06 L1 12.718				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jan-2013			
Legal Land Location	SE SEC 8 TWP 52 RGE 25 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:38:47, 53:28:13				Data Entry Date	08-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	ANTHONY HENDAY DRIVE				Review Date	27-Jan-2013			
Clear Roadway/Skew	12.9 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	41,140 / 2011 (A)				Dept. Review Date	14-Feb-2013			
Road Classification	RFD-412.4-110				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:							----> Primary Span		
Posting Information									
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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Information, directional.								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	240 KV OH lines, 250m north. Lighting.				Municipal	Street lights attached to curb.			
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Approach slab ACP crackingwith pothole @ North.				
Vertical Alignment			9	9					
Roadway Width (m)	13.600								
Approach Bump			5	4					
Guardrail (Y/N)	Yes								
Guardrail			5	7					
Length (m)	77.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn down								
Drainage			8	8					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : NU, 3 Spans, Lengths(m): 41.5-52-41.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			4	4	100 mm x 100mm pothole in ACP in EB lane (photo). Horizontal and transverse cracking throughout.
(Material Type : ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	7	
Deck Joints			5	3	Glands at both abutments appear dried out and cracked (photo). No leakage apparent.-May 2011 Gland @ South missing-photo Debris falling onto abutment seat.
Temperature (deg. C)		-10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
100		Abutment 1 - South			
90		Abutment 2 - North			
Deck Drainage			8	3	No deck drains. Leaking through South joint onto substructure.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Hairline vertical cracking.
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)					
Scaling (Percent Area)		0			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders			4	4	Hairline cracks in anchorage zone of girder webs, typical. Continuous.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 4)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 3 Spans, Lengths(m): 41.5-52-41.5, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	Concrete diaphragms at pier & abutments. Steel intermediate diaphragms. Galvanized.
Bearings		8	8	
Temperature (deg. C)	13			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Narrow random transverse cracks with efflorescence. Efflorescence @ most barrier const. joints.
Stains (Percent Area)	1			
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				
Bearing Seats/Caps		9	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		4	4	
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		9	9	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				1500mm column below each girder line. Concrete base at bottom of columns.
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	N	
Debris (Y/N)	No			
Substructure General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Channel meanders through bridge opening.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	5	Headslope settling on N side creating void under concrete base @ N pier.
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)		No		
Slope Protection (Type : NATURAL; RIP RAP)		8	7	Rock on upper banks.
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Repair pothole in ACP.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Install new gland @ South joint. Install 1 snow plow guard.					
RESET/ PAINT BEARINGS							
WASHING	2013	Particularly @ S abut.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch both approaches, seal cracks.					
OTHER ACTION	2013	Consider replacing North gland while there.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	59.8/59.8	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks. Monitor cracks in ACP. Monitor spall in NW wingwall. Replace joint before drainage starts affecting girders/bearings.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	26-Oct-2014		Previous Inspection Date	04-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							