

Bridge Inspection											
Bridge File Number	85007 -1 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	216:06 R1 18.825;216:06 L1 18.877					Inspector Class	BR CLS A				
Located On	LOCAL ROAD					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	25-Jan-2013				
Legal Land Location	NW SEC 29 TWP 52 RGE 25 W4M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-113:39:36, 53:31:22					Data Entry Date	06-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	ANTHONY HENDAY DRIVE					Review Date	25-Feb-2013				
Clear Roadway/Skew	18.2 / 16 deg. (RHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	3,000 / 2013 (E)					Dept. Review Date	13-Mar-2013				
Road Classification	UAD-409.0-070					Follow-Up By					
Detour Length (km)	3										
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 Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes	Lane	NB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks	SB ramp 5.6, NB ramp 5.6.											

Required Load Posting (t)			Single		Semi		Truck Train	
Posted Loading (t)			Single		Semi		Truck Train	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	EB	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	8 wires over East approach.					Municipal				
Others	Street lighting North & South sides. Lighting in median & interchange ramps.					Problem (Y/N)	No			
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to East.
Vertical Alignment		7	7	Bridge on V crest curve, limits visibility to East, typical interchange.
Roadway Width (m)	18.800			Bumps at ends of approach slabs at East end in all lanes. - bump sign @ NE
Approach Bump		5	4	
Guardrail (Y/N)	Yes			
Guardrail		5	7	
Length (m)	45.000			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		4	N	Erosion gully from approach drainage @ NE corner - photo.-May, 2011
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>NU, 2 Spans, Lengths(m): 51-48.5, A-Ident Number: )</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	0.0	0.0	0.0	
Wearing Surface			8	7	Waterproofing membrane installed on deck.
(Material Type : <b>MIX TYPE 2 ACP</b> )					
(Thickness(mm) : <b>80</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	4	Missing snow plow deflector @ SE.-photo
Temperature (deg. C)		-5			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
80		East abutment			
75		West abutment			
Deck Drainage			8	4	Looking through approach slab onto NW wingwall.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Type: Concrete barrier. Coating on barrier joint S1 North side failed.-May 2011
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			9	9	On sidewalk South side.  Insufficient thread on approx 6 anchor bolts - photo.
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			9	9	
(Type : <b>GALVANIZED</b> )					
Sidewalk			7	7	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Narrow cracking of poured connection G1 over pier.
<b>Last</b>					
<b>Now</b>					
Girders			4	4	Continuous.-poured connection over pier. Hairline cracks in AZ in several girders . Cracking over piers visible from Level 2 inspection markings.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>16</b> )					
Diaphragms/Cross Frame			9	9	Steel galvanized.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>NU, 2 Spans, Lengths(m): 51-48.5, A-Ident Number: )</b>				
Bearings		5	5	Seal at pot bearing at A2G4 coming out - photo.
Temperature (deg. C)	-5			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	4 cracks with efflorescence near East abutment.
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
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>				
Bearing Seats/Caps		9	9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		9	9	
Wingwalls		9	7	Staining/peeling @ NW.
Piles		N	N	
Paint/Coating		8	5	Staining peeling 5% of NW.
Abutment Stability		9	9	
Scour/Erosion		4	N	Erosion gully along NE corner - photo.- May 2011
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				4 bearing shafts.
Bearing Seats/Caps		8	8	Hairline map cracking.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Peeling on North end.
(Colour Description : )				Beige.
(Colour Code : )				
Pier Stability		9	9	
Scour		9	N	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		9	9	

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		9	8	
Type	Lighting/guardrail			
Slope Protection		X	8	
(Type : <b>CONCRETE</b> )				
Bank Stability		8	8	
Drainage		4	N	Ponding @ base of East headslope - photo.-May, 2011
<b>Grade Separation General Rating</b>		<b>8</b>	<b>8</b>	

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	Approach @ NE/NW					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	SE missing snow plow gurard					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair headslope erosion, approach drainage problems and ponding issues, if not done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>66.3/63.1</b>	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking		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	25-Oct-2014		Previous Inspection Date	04-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							