

Bridge Inspection													
Bridge File Number	85021 W3-6 Bridge					Form Type	PSR						
Year Built/Year Supstr	2006/2006					Lot No.	3						
Bridge or Town Name	ANTHONY HENDAY WESTBOUND OVER CONNECTOR TRELLIS STRUCTURE					Inspector Name	Kris Bosters						
						Inspector Class	BR CLS A						
Located Over	RAMP 2423-2 B					Assistant Name							
Located On	216:06 R1 0.379					Assistant Class							
Water Body Cl./Year						Inspection Date	20-Feb-2013						
Navigabil. Cl./Year						Data Entry By	Theresa Lacusta						
Legal Land Location	NE SEC 29 TWP 51 RGE 24 W4M					Data Entry Date	12-Mar-2013						
Longitude, Latitude	-113:29:46, 53:26:13					Reviewer Name	Eric Carcoux						
Road Authority	Alberta Transportation (AIT)					Review Date	10-Mar-2013						
Contract Main. Area	ANTHONY HENDAY DRIVE					Dept. Reviewer Name	Brent Herrick						
Clear Roadway/Skew	12.9 /					Dept. Review Date	13-Mar-2013						
AADT/Year	51,020 / 2011 (A)					Follow-Up By							
Road Classification	RFD-412.4-110												
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)		No											
Posted:	Lane	WB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	EB	On Bridge (m)		In Advance (Y/N)		
Remarks	5.4 sign on structure #1.												
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	At Bridge (Y/N)	No			
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		At Bridge (Y/N)				
Remarks	Not required.												
Hazard Marker At Bridge (Y/N)	Yes												
Remarks	Installed on end of crash barrier.												
Other Sign Types													
Utilities (Located at)													
Utility Attachments													
Telephone						Gas							
Power	Street lighting.					Municipal							
Others						Problem (Y/N)	No						
Remarks													
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				9	9	Wide crack in ACP at approaches.-photo							
Vertical Alignment				8	8								
Roadway Width (m)				12.900									
Approach Bump				7	5								
Guardrail (Y/N)				Yes									
Guardrail				8	8								
Length (m)				69.000									
Current Standard (Y/N)				Yes									
Termination Type				Crash terminal									
Drainage				4	4	Fill settling @ SW & eroding behind backwall.-photo Fill settled at NW and drainage is flowing under approach slab.-photo							
<b>Approach Road General Rating</b>				<b>8</b>	<b>8</b>								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TSS, 1 Spans, Lengths(m): 39, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow along gutters.
<b>Last</b>					
<b>Now</b>	5.0				
Wearing Surface			8	4	Random longitudinal and transverse cracks in ACP - sealed. ACP ravelling & 1m x 0.2m pothole formed at W joint paving lip.- photo
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>90</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	4	Pothole at W deck joint.
Deck Joints			4	4	Cover plate bolt head sheared off at North side - photo. Leakage is causing scaling & spalling on deck underside at SW.- photo
Temperature (deg. C)		-5			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
89		West abutment			
Deck Drainage			4	4	Drain tubes dont extend below underside.-photo Seepage from curb, control joints and deck joints are causing delaminations.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Narrow vertical shrinkage cracks, typical.
(Curb Type : <b>SINGLE SLOPE CONCRETE BARRIER</b> )					
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)	BF 85021W & BF 85021E-1 are attached Western 10 girders are being rated as part of BF 52021W.
<b>Last</b>					
<b>Now</b>					
Girders			4	4	Shrinkage cracks at ends of trellis beams. Narrow horizontal cracks. Girder 1 & G2. Most girders have rust spots originating from formwork.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>10</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : TSS, 1 Spans, Lengths(m): 39, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		8	8	Only a couple can be viewed.
Temperature (deg. C)	-4			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Staining around drain tubes.
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		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		8	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : )				Supports for trellis beams. Narrow horizontal and vertical cracking.
Bearing Seats/Caps		8	8	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		N	N	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	5	Cream.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		8	8	
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		8	8	On curve.
Traffic Safety Features		8	8	Guardrail & concrete retaining wall on East side.
Type	Lighting			
Slope Protection		8	6	Bark mulch.
(Type : <b>CONCRETE; CONCRETE</b> )				Concrete retaining wall on East side. Narrow vertical cracks.
Bank Stability		4	4	Fill settling at SW & NW.- photo.
Drainage		8	8	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</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	Seal cracks at approaches, patch pothole at W paving lip.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	NW cover plate bolt.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Place fill @ SW & NW corners.					
OTHER ACTION	2013	Extend drain tubes.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.7/50.4</b>	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Some maintenance items are common to BF E1-1 as they share a common substructure.		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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	20-Nov-2014		Previous Inspection Date	25-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							