

Bridge Inspection											
Bridge File Number	81157 E-1 Bridge				Form Type	PSR					
Year Built/Year Supstr	1997/1997				Lot No.	2					
Bridge or Town Name	EDMONTON				Inspector Name	Wade Nanninga					
Located Over	216:04 R1 9.909;216:04 L1 9.896;216:04 C1-1OL 9.903;216:04 C1-1OR 9.912				Inspector Class	BR CLS A					
Located On	14:03 R1 0.909;628:04 R1 0.000				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	10-Jan-2013					
Legal Land Location	NW SEC 9 TWP 52 RGE 23 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-113:20:34, 53:28:58				Data Entry Date	05-Feb-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	ANTHONY HENDAY DRIVE				Review Date	17-Jan-2013					
Clear Roadway/Skew	16.1 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	10,010 / 2011 (A)				Dept. Review Date	14-Feb-2013					
Road Classification	RAD-412.4-120				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:	CS750									----> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 216 C1-1OL 5.4m, 216 C1-1OR 5.4m, 216 L1 5.4m, 216 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks		SB posted on North bridge.										
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)		Yes										
Remarks		Not required.										
Other Sign Types		Information, Speed, Directional.										

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On/Off ramps. Typical grade separation. Recent patches on approach.
Vertical Alignment		7	7	
Roadway Width (m)	16.100			Wide cracks in ACP at ends of approach slabs.-photo
Approach Bump		4	4	
Guardrail (Y/N)	Yes			
Guardrail		4	6	
Length (m)	87.400			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		4	4	Voids at West end approach slabs, ACP settling- photo.
Approach Road General Rating		7	7	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : CBC, 4 Spans, Lengths(m): 29-37-37-29, A-Ident Number:)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Gravel/ice along curbs.		
Last	5	0	0	0			
Now	20.0						
Wearing Surface			8	8			
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)		No					
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			7	7			
Temperature (deg. C)		-15					
(Expansion Type : FINGER PLATES)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
68		East abutment - Exp.					
100		West abutment - Exp.					
Deck Drainage			4	4	Joint gutter not long enough allowing water to splash or blow against breastwall. South end West abutment, both ends East. Joint drainage spilling onto abutment seat.		
Drains Clogged (Y/N)		No					
Curbs/Median			7	7			
(Curb Type : Standard)							
Scaling (Percent Area)		0					
Bridge Rail			7	7	Loose anchor nut NE rail.-photo 5 bent anchor bolts in S rail.-photo-04-Apr-2011		
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts			4	7			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			8	8			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Girders			8	8	CIP sections over piers have vertical cracking.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : 9)							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 4 Spans, Lengths(m): 29-37-37-29, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	-15			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Small rust stains and salt stains on SPL between G1 and 2.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	9	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5:5)				
Pier Shaft/Piles		7	7	Narrow map cracking on all piers.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Grey.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		7	7	
Type	Lighting / Guardrail			
Slope Protection		6	6	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Straighten bent bolts and tighten loose nut, if not done.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill dip at West approach slab.					
OTHER ACTION	2013	Extend drain tubes at headslopes.					
OTHER ACTION	2013	Seal cracks in approach slab ACP.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	71.4/71.4	Est. Repl. Yr	2064	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	10-Oct-2014		Previous Inspection Date	04-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							