

Bridge Inspection									
Bridge File Number	76092 -1 Bridge					Form Type	SG		
Year Built/Year Supstr	1968/1968					Lot No.	2		
Bridge or Town Name	EDMONTON					Inspector Name	Wade Nanninga		
Located Over	SHERWOOD PARK FREEWAY:02 R1 1.649;SHERWOOD PARK FREEWAY:02 L1 1.656					Inspector Class	BR CLS A		
Located On	MUNICIPAL					Assistant Name			
						Assistant Class			
Water Body Cl./Year						Inspection Date	14-Jan-2013		
Navigabil. Cl./Year						Data Entry By	Lisa Fairhurst		
Legal Land Location	SW SEC 29 TWP 52 RGE 23 W4M					Data Entry Date	26-Mar-2013		
Longitude, Latitude	-113:22:09, 53:31:00					Reviewer Name	Eric Carcoux		
Road Authority	Alberta Transportation (AIT)					Review Date	25-Mar-2013		
Contract Main. Area	ANTHONY HENDAY DRIVE					Dept. Reviewer Name	Brent Herrick		
Clear Roadway/Skew	9.1 / -15 deg. (LHF)					Dept. Review Date	02-Apr-2013		
AADT/Year	5,000 / 2013 (E)					Follow-Up By			
Road Classification	RCU-208-110								
Detour Length (km)	1								
Allowable Load (t):	Single		Semi		Train				----> On Critical Spans ---->Critical Member
Design Loading:	HS20								----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: SHERWOOD PARK FREEWAY L1 5.0m, SHERWOOD PARK FREEWAY R1 5.0m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	EB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.0	In Advance (Y/N)	Yes
Remarks												
Required Load Posting (t)	Single				Semi				Truck Train			
Posted Loading (t)	Single				Semi				Truck Train			
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks												
Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types	Information, Speed, Direction.											

Utilities (Located at)									
Utility Attachments	OTHER UTILITIES-OTHER LINES								
Telephone	Southeast.				Gas				
Power	3 wires East r/w.				Municipal				
Others	Lighting.				Problem (Y/N)		Yes		
Remarks	Conduit on West side under bridge has disjointed at SW.								

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Access ramps. Bridge on crest curve. Typical grade separation.
Vertical Alignment		6	6	
Roadway Width (m)		9.400		Insufficient post/spacing. Plastic posts @ transition to bridge. Dented @ NE - minor
Approach Bump		7	7	
Guardrail (Y/N)		Yes		
Guardrail		3	4	
Length (m)		42.000		
Current Standard (Y/N)		No		
Termination Type		Turned Down		
Drainage		5	5	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FR, 3 Spans, Lengths(m): 31.1-11-31.1, A-Ident Number: A0599-01)						
Special Features						
Special Feature			X	Bridge plaque at SE damaged		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	20	0	0	0		
Now	30.0	0.0	0.0	0.0		
Wearing Surface			5	4	Silica fume overlay in 1998. Wide random & longitudinal cracking. Transverse cracking.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			5	5	Vertical misalignment of fingers at A2. Gland covered with sand and debris.	
Temperature (deg. C)		-7				
(Expansion Type : FINGER PLATES)						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
40		North abutment - Exp.				
85		South abutment - Fixed				
Deck Drainage			5	5	No drains.	
Drains Clogged (Y/N)						
Curbs/Median			N	N	Concrete parapet.(Minor chip at SW corner under plate. -28-Jun-2009)	
(Curb Type : JERSEY/F SHAPE)						
Scaling (Percent Area)		0				
Bridge Rail			X	X	No bridgerail.	
(Type :)						
Bridge Rail Posts			X	X		
(Type :)						
Bridge Rail/Posts Coating			X	X		
(Type :)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	7	Minor high load scrapes.	
Flange			6	6		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FR, 3 Spans, Lengths(m): 31.1-11-31.1, A-Ident Number: A0599-01)				
Paint Condition		4	4	5% rust predominantly on bottom flange. Green.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	Grout pad at NW deteriorating. Superficial rust on bearings.
Temperature (deg. C)	-7			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Random cracking along the deck underside. Some with rust-efflorescence staining - numerous potholes. Cracking above end diaphragms- S abut.
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	Narrow fleural cracking S abut.
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				10 columns. No cap.
Bearing Seats/Caps		X	X	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	5% superficial rust. Green.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		8	8	Steel and flexbeam Guardrail also present.
Type	Crash Barrier			
Slope Protection		5	5	
(Type : CONCRETE; CONCRETE)				
Bank Stability		N	N	
Drainage		7	7	
Grade Separation General Rating		7	5	

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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace bridge plaque @ SE					
OTHER ACTION	2013	Repair conduit @ SW.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	61.1/58.5	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor grout pads @ NW		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	14-Apr-2016		Previous Inspection Date	07-Mar-2011			
Inspection Cycle (Default) (months)	39						
Comment							