

Bridge Inspection										
Bridge File Number	77126 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1972/1972					Lot No.	2			
Bridge or Town Name	EDMONTON					Inspector Name	Shane Hall			
Located Over	14:06 R1 0.004;14:04 L1 7.277					Inspector Class	BR CLS A			
Located On	21:26 L1 24.665;21:26 R1 24.664					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	04-Jan-2013			
Legal Land Location	SW SEC 31 TWP 51 RGE 22 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:14:46, 53:26:46					Data Entry Date	16-Jan-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA09					Review Date	10-Jan-2013			
Clear Roadway/Skew	20.1 /					Dept. Reviewer Name	Paul Catt			
AADT/Year	7,780 / 2011 (A)					Dept. Review Date	18-Jan-2013			
Road Classification	RAU-211.8-110					Follow-Up By				
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 41			Semi	CS2 71 GIRDER		Train	CS3 78 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information														
Required Vert. Clearance Posting (m)				UNDER: 14 L1 5.3m, 14 R1 5.3m										
Posted Vertical Clearance (Y/N)				Yes										
Posted:	Lane	EB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes		
Remarks	VCM minimum 5.58 m in E/B lanes VCM minimum 5.48 m in W/B lanes													
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	At Bridge (Y/N)	No				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No				
Remarks	Not required.													
Hazard Marker At Bridge (Y/N)		No												
Remarks														
Other Sign Types		Information, Speed, Warning, Directions, Deck Slippery.												

Utilities (Located at)				
Utility Attachments				
Telephone			Gas	200m West.
Power	1 wire to NW.		Municipal	
Others	Bell fibre optic NE.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On/off ramps. Typical of overpass.
Vertical Alignment		7	7	Crest curve. 4 lane over bridge then 2 lane both directions.
Roadway Width (m)	11.000			Pot holes at ends of approach slab SBL - photo.
Approach Bump		4	4	
Guardrail (Y/N)	Yes			No thrie beam, insufficient posts. 2 posts & 2 rail sections damaged SE. 3 posts & 2 rail sections damaged SW (photos).-04-Apr-2011
Guardrail		7	N	
Length (m)	57.000			Snow covered
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	N	SW/SE drain trough spalling. All troughs have wide cracks at concrete slope protection locations.-04-Apr-2011

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			7	7	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)					
Special Features					
Special Feature			7	7	
(Type : EXT LATER POST TENS)					
Special Feature			7	7	
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Ice/gravel along curbs.
Last	10	0	0	0	
Now	10.0				
Wearing Surface			N	7	(Patches of chip seal missing along curbs - photo. 27-May-2009)
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			7	4	Water staining on A2 under G2 & G3 indicates joint is leaking.-photo
Temperature (deg. C)		3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
73			South abutment		
77			Pier		
80			North abutment		
Deck Drainage			5	5	No deck drains. Weep tubes sealed by FRC deck overlay outside face of curbs is spalling at a few post locations.
Drains Clogged (Y/N)					
Curbs/Median			5	N	Approach road median spalled with rebar exposed at numerous locations (photo).-04-Apr-2011
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	N	Approx 50% of grout pads are rust stained, some have cracks. Insufficient thread extension on 60% of bolts.-04-Apr-2011
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	N	70% of paint has failed overtop galvanizing. Snow covered bases.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)				
Girders		5	5	FC chamfer cracks in most girder extending into deck U/S. Spot rusting, staining on S1/G7 @ pier. G1, 2 & 8 & S2-G6 near abutment. Exposed strand S2G7 at pier, no deterioration of strand. Weep tubes sealed by FRC deck overlay.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	5			
(Number Of Girders : 28)				
Diaphragms/Cross Frame		4	4	South abutment diaphragms cracks with spot staining 6/14 diaphragms.
Bearings		6	6	Unable to access bearings. Viewed with binoculars. Bearing slightly deformed, pushing towards abutment. Fixed at abutments.
Temperature (deg. C)	2			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Minor rust stains around weep tubes.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Girders appear to have approx. 75mm Neg. Camber under snow loads.-photo
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	Rust stain cracks at SW. Narrow to medium vertical & map cracking. Delaminated in a few spots.
Piles		N	N	
Paint/Coating		5	5	Random areas beginning to peel.
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Spot rust staining on South face at West corner. Minor rust stain from keeper block west end of pier cap. Delam crack under G1.
Bearing Seats/Caps		6	5	
(Type : CONCRETE)				2 medium cracks at base.
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	Grey.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		4	N	1 broken spacer block W end WBL-04-Apr-2011
Type	Guardrail			Snow covered
Slope Protection		4	4	Top row of concrete blocks at N abutment has heaved 50mm. Wide cracks at E end of south headslope.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		4	4	Water infiltrating under NE drain at cracked locations.
Grade Separation General Rating		4	4	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair leaking joint at A2.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair/replace damaged flexbeam and posts, if not done.					
OTHER ACTION	2013	Seal cracks and patch ACP on grade separation & bridge.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	60.1/58.3	Est. Repl. Yr	2040	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	04-Oct-2014		Previous Inspection Date	04-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							