

Bridge Inspection									
Bridge File Number	06825 W-4 Bridge				Form Type	PSR			
Year Built/Year Supstr	1982/1982				Lot No.	2			
Bridge or Town Name	LEGISLATURE TUNNEL WEST				Inspector Name	Kris Bosters			
Located Over	LOCAL ROAD				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Oct-2012			
Legal Land Location	NW SEC 32 TWP 52 RGE 24 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:30:27, 53:32:04				Data Entry Date	23-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	UNDEFINED CMA				Review Date	22-Oct-2012			
Clear Roadway/Skew	20 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year					Dept. Review Date	13-Nov-2012			
Road Classification					Follow-Up By				
Detour Length (km)	0								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> Primary Span		

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		Yes								
Posted:	Lane	EB	On Bridge (m)	4.9	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks		VC sign installed on roadway approaching tunnel, no VC sign on West headwall.								
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		Not required.								
Hazard Marker At Bridge (Y/N)		No								
Remarks		Not required.								
Other Sign Types		Information, Traffic Light, Speed.								

Utilities (Located at)			
Utility Attachments			
Telephone	Buried underground.	Gas	Buried underground.
Power	Conduit underground all around.	Municipal	City storm system.
Others	Street lights at West approach. Traffic light inside tunnel.	Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On legislature grounds. For pedestrian & bicycle traffic only.
Vertical Alignment		9	9	
Roadway Width (m)				Areas with ramps & slopes.
Approach Bump		7	7	
Guardrail (Y/N)		No		
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)		Yes		
Termination Type		None		
Drainage		7	7	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PB, 1 Spans, Lengths(m): 29.68, A-Ident Number:)					
Special Features					
Special Feature			7	"Exhaust Fans" Attached to underside of girders. No evident problems as viewed from below.	
(Type :)					
Special Feature			6	"Ponds & Fountains" Ponds & fountains constructed throughout grounds. No evident problems. Shut off for winter.	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			4	4	Exposed aggregate concrete. Separating at some joints - photo. Areas of spalling, typical - photo.
(Material Type : CONCRETE)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	For pedestrian/bicycle traffic only.
Deck Joints			N	N	Cast-in-place.
Temperature (deg. C)		3			
(Expansion Type : OTHER)					
(Fixed Type : OTHER)					
Gap Size (mm)		Gap Location			
Deck Drainage			7	5	Drains into City storm system. Leakage & staining deck underside. Water staining & leakage around fascia & also along edge of skylights.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Concrete headwall on West side, random cracks - photo.
(Curb Type :)					
Scaling (Percent Area)					
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	Entire area for pedestrian use only.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			7	5	Visually inspected girders from ground but poor lighting & height of girders prevent detailed inspection to confirm condition. Need manlift & traffic accommodation for detailed inspection. Looks ok. 1m long hairline longitudinal cracks on underside of about 1/2 of girders N ends.-photo
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 58)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 1 Spans, Lengths(m): 29.68, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		N	N	Too high & some bearings covered. Viewed from ground with binoculars, looks OK.
Temperature (deg. C)	3			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
Deck Underside		7	7	Staining from leakage between G22 & 23.-photo
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		7	7	
Wingwalls		6	6	Random cracks.
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
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	97 Ave with horizontal curve through tunnel and uphill grade to West. 2-3 400mm dia spalls in concrete roadway WBL.
Traffic Safety Features		3	4	Lights burnt out attached to girder underside. Some lights are blinking, may have short circuit.
Type	Lighting			
Slope Protection		X	X	Median & curbs in good condition.
(Type :)				
Bank Stability		X	X	
Drainage		3	7	Gutter drains into City storm system.
Grade Separation General Rating		7	7	

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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Investigate source of leakage and repair.					
OTHER ACTION	2012	Replace burnt out lights under girders.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	69.0/69.0	Est. Repl. Yr	2048	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Need ladder/manlift & traffic control to perform detailed visual inspection on girders and bearings.		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				
Next Inspection Date	19-Jan-2016		Previous Inspection Date	02-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							