

Bridge Inspection										
Bridge File Number	79441 N-1 Bridge					Form Type	SG			
Year Built/Year Supstr	1982/1982					Lot No.	4			
Bridge or Town Name	AKENSIDE					Inspector Name	Shane Hall			
Located Over	CPR					Inspector Class	BR CLS A			
Located On	21:28 R1 17.586					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	04-Jan-2013			
Legal Land Location	SW SEC 30 TWP 53 RGE 22 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:14:44, 53:36:17					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	11.5 / 52 deg. (RHF)					Dept. Reviewer Name	Paul Catt			
AADT/Year	21,910 / 2011 (A)					Dept. Review Date	18-Jan-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:	MS300									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)					No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											
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)	Yes										
Remarks											
Other Sign Types	Bridge Ices.										

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone						Gas	6 lines cross hwy, 20m East of bridge.		
Power	2 lines East r/w.					Municipal			
Others	Bell fibre optics West r/w.					Problem (Y/N)	No		
Remarks									

Approach Road									
					Last	Now	Explanation of Condition		
Horizontal Alignment					7	7			
Vertical Alignment					7	7			
Roadway Width (m)					11.400				
Approach Bump					5	5			
Guardrail (Y/N)					Yes				
Guardrail					4	N	S sections leaning at NE.-04-Apr-2011		
Length (m)					99.000				
Current Standard (Y/N)					No				
Termination Type					Turned Down				
Drainage					4	5	Spalling edges of SW drain trough - photo.		
Approach Road General Rating					7	7			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 25-31-25, A-Ident Number: A0913-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			4	4	Random longitudinal and transverse cracks. No chipseal on West lane.
(Material Type :)					
(Thickness(mm) :)					
Deck Top			N	N	
Deck Rideability			6	5	
Deck Joints			5	5	Broken fingers in East lane, welded. Joints removed from West lane.-photo
Temperature (deg. C)		-5			
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
70		North abutment - exp			
90		South abutment - fixed			
Deck Drainage			4	5	(Ponding @ South abutment in West shoulder. April 17/04)
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	Shrinkage cracks typical 0.5m-1.5m efflorescence of outside face.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	N	Approx 10% post grout pads are slightly scaled on edges and delaminating.-04-Apr-2011 Posts (4) along West rail with nuts not fully engaged.-04-Apr-2011
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	N	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			8	8	
Web			8	8	
Stiffeners			8	8	
Splice			8	8	
Weld			8	8	
Diaphragms/Cross Frame			8	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 25-31-25, A-Ident Number: A0913-01)				
Paint Condition		6	6	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	7	South bearing replaced - work in progress.-photo North bearing replaced.
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	6	Few narrow transverse cracks with efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Bridge twisting with skew.
Horizontal (Y/N)	Yes			
Superstructure General Rating		4	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	6	Cracks extending from cracked grout pads at bearings.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	lots of grafatti
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	
(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							
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/66.7	Sufficiency Rating (Last/Now) (%)	49.5/59.6	Est. Repl. Yr	2039	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Rehabilitation work in progree. Re-inspect once work completed.		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							