

Bridge Inspection										
Bridge File Number	79441 S-2 Bridge				Form Type	SG				
Year Built/Year Supstr	1983/1983				Lot No.	2				
Bridge or Town Name	AKENSIDE				Inspector Name	Shane Hall				
Located Over	CPR				Inspector Class	BR CLS A				
Located On	21:28 L1 17.558				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	-113:14:45, 53:36:16				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	Crosses under North & South abutment fill.				
Power	2 wires 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)		11.500							
Approach Bump			6	6					
Guardrail (Y/N)		Yes			Insufficient post spacing NW corner. No thrie beam. 2 sections rail & 1 post broken at E.-photo-04-Apr-2011				
Guardrail			4	N					
Length (m)		99.000			Snow covered.				
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			6	6					
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: A0913-02)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	15		
Now	0.0	0.0	0.0	25.0		
Wearing Surface			3	3	25% of chipseal is delaminated and peeling in West lane. Fibre reinforced concrete with chip seal. Concrete deck in East lane replaced.-no chipseal.	
(Material Type :)						
(Thickness(mm) :)						
Deck Top			3	N		
Deck Rideability			5	4	Delamed ACP in West lane creates rough ride.	
Deck Joints			4	4	4 broken finger in West lane.-photo Joints in East lane removed.-photo Appears work in progress for full joint removal.	
Temperature (deg. C)		5				
(Expansion Type : FINGER PLATES)						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
75		South abutment, exp.				
77		North abutment, fixed				
Deck Drainage			4	4	(Ponding in shoulder SW corner.) Water directed against backwall @ South abutment. Insufficient number & size drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	N	Cracks typically 0.5 - 1.5m with efflorescence on outside face. Snow covered	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	N	Approx 10% of grout pads are spalled along edges. Nuts in 6 posts of East rail have insufficient thread.-04-Apr-2011 Snow covered	
(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	RB girders.	
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: A0913-02)				
Paint Condition		6	6	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	5	Bearings being 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		6	6	Some transverse cracks with efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Skew pressure.
Horizontal (Y/N)	Yes			
Superstructure General Rating		4	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	Medium horiz. & vertical crack N cap near cl.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
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		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Graffiti
(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		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type	None			
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	2013	Remove and replace debonded areas.				
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 damaged approach rail, if not done.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	51.5/52.7	Est. Repl. Yr	2039	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Major rehab underway. Re-inspect once complete.	Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy	
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On 3-Year Program (Y/N)	
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Proposed Action	
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Previous Inspector's Name	Kris Bosters	Previous Assistant's Name	
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Next Inspection Date	04-Oct-2014	Previous Inspection Date	04-Apr-2011
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Inspection Cycle (Default) (months)	21
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Comment	
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