

Bridge Inspection										
Bridge File Number	78802 N-1 Bridge					Form Type	SG			
Year Built/Year Supstr	1995/1995					Lot No.	2			
Bridge or Town Name	SPRUCE GROVE					Inspector Name	Kris Bosters			
Located Over	16:14 R1 30.426;16:14 L1 30.435;RAMP 99-1 C					Inspector Class	BR CLS A			
Located On	60:04 R1 3.167					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	17-Dec-2012			
Legal Land Location	NE SEC 9 TWP 53 RGE 26 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:45:47, 53:34:11					Data Entry Date	08-Jan-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11					Review Date	03-Jan-2013			
Clear Roadway/Skew	7.7 /					Dept. Reviewer Name	Paul Catt			
AADT/Year	14,010 / 2011 (A)					Dept. Review Date	18-Jan-2013			
Road Classification	RAU-209-110					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:	CS750									----> Primary Span

Posting Information										
Required Vert. Clearance Posting (m)	UNDER: 16 L1 5.7m, 16 R1 5.7m									
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	WB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	EB	On Bridge (m)	In Advance (Y/N)
Remarks	Posting EB is on SB structure.									
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										

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power						Municipal			
Others	Light standards.					Problem (Y/N)	No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	ACP is cracked and ravelling at approaches and joints.-photo				
Vertical Alignment			7	7					
Roadway Width (m)			8.500		Snow covered				
Approach Bump			6	4					
Guardrail (Y/N)			Yes						
Guardrail			6	N					
Length (m)			57.000						
Current Standard (Y/N)			Yes						
Termination Type			Turn Down						
Drainage			4	N	Gully @ SE corner 0.3 x 0.3 x 0.6 deep & SW corner 2m x 0.6w x 0.5 deep.-06-Oct-2010 To much snow to view.				

Approach Road						
			Last	Now	Explanation of Condition	
Approach Road General Rating			7	7		
Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 34-34-28, A-Ident Number: A1257-01)						
Special Features						
Special Feature				X	Light standard on bridge curb.	
(Type :)						
Special Feature				X		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
		N (%)	1 (%)	2 (%)	3 (%)	Snow along curbs.
Last						
Now		20.0				
Wearing Surface			6	4	Asphalt along paving lip @ North joint ravelling. Transverse cracking reflecting through the seal coat.	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			4	4	Finger plate at north end. Vibrates under traffic. -06-Oct-2010 North abutment joint paving lip delam/potholes - photo. Finger plates not vibrating.-17-Dec-2012	
Temperature (deg. C)		-18				
(Expansion Type : GLAND (SILICON SEAL);FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
89		North Abutment				
102		South Abutment				
Deck Drainage			5	N	Too much snow to view.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	N	Typical hairline vertical and transverse shrinkage cracks at 0.3-0.5 spacing. Partially snow covered.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			8	8	Base of posts snow covered.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			8	N	Dirty.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	8		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	3 girders/span.	
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 34-34-28, A-Ident Number: A1257-01)				
Diaphragms/Cross Frame		8	8	
Paint Condition		X	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Need snooper to inspect South abutment bearings. Pier bearings inspected from headslopes.
Temperature (deg. C)	-18			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	5	Transverse cracks with efflorescence.
Stains (Percent Area)	0			Area around cracks under BR posts have light scaling.
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	6	Random narrow cracking.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	Random narrow cracking.
Wingwalls		5	5	Narrow map cracking @ SW & SE.
Piles		N	N	
Paint/Coating		8	N	Starting to peel at crack locations.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Map cracking on ends of caps. Capseal. Medium vertical crack both sides of cap P1.
Bearing Seats/Caps		6	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				Map cracking
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	5	Biege Peeling at crack locations.
(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		8	8	
Traffic Safety Features		7	7	
Type	Guardrail			
Slope Protection		4	4	North protection pulled out 185mm & drain troughs settled 50mm - photo.
(Type : CONCRETE; CONCRETE)				Partially snow covered.
Bank Stability		6	6	
Drainage		4	N	Void 3m x 0.3m deep under drain trough/slope protection @ NE corner - photo.-06-Oct-2010 Snow covered.
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							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Seal cracks in chipseal/deck ACP.					
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	Seal gap in top of North concrete slope protection.					
OTHER ACTION	2013	Fill void under NE concrete drain trough, if not already done.					
OTHER ACTION	2013	Patch ACP at approaches and along joints.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/55.6	Sufficiency Rating (Last/Now) (%)	54.3/46.5	Est. Repl. Yr	2047	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	17-Sep-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							