

Bridge Inspection										
Bridge File Number	82043 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	2004/2004					Lot No.	2			
Bridge or Town Name	SPRUCEGROVE					Inspector Name	Eric Carcoux			
Located Over	16:14 R1 19.100;16:14 L1 19.105					Inspector Class	BR CLS A			
Located On	LOCAL ROAD					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	10-Aug-2012			
Legal Land Location	NW SEC 9 TWP 53 RGE 27 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:56:02, 53:34:09					Data Entry Date	17-Sep-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Stew Hagan			
Contract Main. Area	CMA11					Review Date	13-Sep-2012			
Clear Roadway/Skew	18 / 12 deg. (RHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,200 / 2008 (E)					Dept. Review Date	18-Sep-2012			
Road Classification	RLU-208-100					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 5.3m, 16 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)	5.7	In Advance (Y/N)	Yes
Remarks		Posted vertical clearance should not exceed "Required VC" posting.										
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		At NW & SE corners only.										
Other Sign Types		Information.										

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	North & South r/w.					Gas			
Power	3 wires 80m SE.					Municipal			
Others	Street lighting.					Problem (Y/N)	No		
Remarks		Stand pipe @ all 4 corners.							

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Radius type with thrie beam transition, typical all corners.
Vertical Alignment		7	7	
Roadway Width (m)	18.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		8	7	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	Turned Down			
Drainage		5	3	Roadway drainage causing minor settlement beside SW wingwall. Void beside NE drain trough.-photo
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 40-40, A-Ident Number: )</b>						
<b>Special Features</b>						
Special Feature				X		Light standard on bridge. Pole coating dirty with light surface pitting.
(Type : )						
Special Feature				X		
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>						
<b>Now</b>						
Wearing Surface			6	6		Transverse cracks in ACP. Not sealed.
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>90</b> )						
Deck Top			N	N		
Deck Rideability			8	7		
Deck Joints			8	7		
Temperature (deg. C)		25				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
72		South abutment				
75		North abutment				
Deck Drainage			4	3		See abutment cap comment, broken PVC extension @ NE corner - photo.
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		Typical vertical cracking @ 0.6m spacing inside face. Typical vertical cracking outside face with efflorescence staining.
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			9	8		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			8	8		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			8	8		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X		
Flange			9	8		
Web			9	8		
Stiffeners			9	8		
Splice			9	8		
Weld			9	8		
Diaphragms/Cross Frame			9	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
<b>(Primary Span : WG, 2 Spans, Lengths(m): 40-40, A-Ident Number: )</b>				
Paint Condition		X	X	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		9	8	Pier bearings not accessible. Need ladder/snopper. Viewed with binoculars, looks good.
Temperature (deg. C)	25			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>SLIDING PLATE</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	Cracked/stained @ NE corner due to broken deck drain extension. Cracked/efflorescence staining, typical.
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		4	4	Coating peeling where stained/cracked.
Abutment Stability		8	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		8	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Pier column coating peeling.
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	8	
Scour		X	X	
Debris (Y/N)	No			

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		9	8	
Traffic Safety Features		8	7	Median only, both directions.
Type	Guardrail			
Slope Protection		5	5	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		5	5	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

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	2012	Change VC signs to meet required clearance.					
OTHER ACTION	2012	Fill hole at NE corner.					
OTHER ACTION	2012	Replace broken PVC drain extension @ NE corner.					
OTHER ACTION	2012	Extend PVC downspout @ NE corner.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>82.1/68.9</b>	Est. Repl. Yr	2070	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	10-May-2014	Previous Inspection Date	06-Oct-2010
Inspection Cycle (Default) (months)	21		
Comment			