

Bridge Inspection											
Bridge File Number	70096 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1981/1981				Lot No.	2					
Bridge or Town Name	SPRUCE GROVE				Inspector Name	Kris Bosters					
Located Over	ATIM CREEK, 6.65.8, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	779:02 C1 1.318				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	18-Oct-2012					
Legal Land Location	NW SEC 1 TWP 52 RGE 28 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:00:07, 53:27:57				Data Entry Date	24-Oct-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA11				Review Date	22-Oct-2012					
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	2,740 / 2011 (A)				Dept. Review Date	13-Nov-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	29										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS23									----> Primary Span	

Posting Information										
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	not at std. location. SE leaning									
Other Sign Types										

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

Approach Road										
		Last	Now	Explanation of Condition						
Horizontal Alignment		9	9	Gradual crest curve in both directions.						
Vertical Alignment		6	6	Limited sight distance.						
Roadway Width (m)	8.200									
Approach Bump			5	4	Patch both approaches & over bridge approach fill not constructed wide enough. ACP cracked and ravelling at approaches.-photo					
Guardrail (Y/N)	Yes		Not attached to bridgerail, too low-200mm (rail to road). Insufficient post/spacing - photo. Incorrect lap at NE corner. Terminal section approach fill narrow - not enough support for guardrail posts - photo.							
Guardrail			4	4						
Length (m)	23.000									
Current Standard (Y/N)	No		SE rail leaning 300.-photo							
Termination Type	TURNDOWN		Position of rail off shoulder creates a wheel trap.							
Drainage			8	8						
Approach Road General Rating		6		6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 1 Spans, Lengths(m): 6, A-Ident Number:)					
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	does not extend to W. curb (400) Wide cracks along girderlines.
(Material Type : ACP)					
(Thickness(mm) : 75)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Buffer angles-paved over.
Bump (Y/N)		Yes			
Deck Drainage			6	6	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			6	5	Lift pockets not grouted. Ends of curbs chipped.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Double layer-not attached to guardrail Minor dents but functioning. Incorrect lap terminal @ SE. Missing 6 bolts on terminal sections. Loose nut NW
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	3	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			8	5	Rust staining from connector pockets & rust spots from tie wires. Narrow longitudinal crack underside G3 North end.
Last Complete Inspection Date		18-Oct-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1000)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	4	
Greatest Height (m)		2.30				
Wingwalls				5	5	
(Total Number of Bearing Piles : 9:11)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				7	5	
Scour/Erosion				7	4	
Wide horizontal check in N abut subcap. Crowned subcaps.						
Backwall rotated back 10 degrees and tie wire broken. Backwall not low enough on SW corner 100mm fill exposed.						
P7 SA wide check. Several backwall scabs installed too low.(300)						
Scour along SE backwall.						
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	Yes			SMALL BEAVERDAM UNDER BRIDGE.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type : NONE)		7	4	Scour along SE backwall.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	tighten loose a/b nut, fix lap S add bolts.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	- Widen approach fills					
OTHER ACTION	2013	- grout lift pockets.					
OTHER ACTION	2013	Reinstall approach rail to meet standard.					
OTHER ACTION	2013	Patch & seal cracks in approaches.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/55.6	Sufficiency Rating (Last/Now) (%)	68.2/54.3	Est. Repl. Yr	2025	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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	10-Jul-2009			
Inspection Cycle (Default) (months)	39						
Comment							