

Bridge Inspection									
Bridge File Number	09272 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1970/1970				Lot No.	1			
Bridge or Town Name	NIGHTINGALE				Inspector Name	Garry Roberts			
Located Over	SERVICEBERRY CREEK, 3.33.9, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	564:06 C1 26.426				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Jan-2012			
Legal Land Location	SW SEC 28 TWP 25 RGE 24 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:18:06, 51:09:15				Data Entry Date	07-Feb-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA30				Review Date	18-Jan-2012			
Clear Roadway/Skew	9.1 / 0 deg.				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,010 / 2010 (A)				Dept. Review Date	09-Feb-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Leaning at SW								
Other Sign Types	ADVANCE WARNING OF RR CROSSING, Narrow Bridge								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South ROW and curb.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Hill to East.				
Vertical Alignment			7	7	Railway crossing 300m East.				
Roadway Width (m)	9.100								
Approach Bump			8	7					
Guardrail (Y/N)	Yes				Missing splice bolt at SE.				
Guardrail			7	4	Not thriebeam.				
Length (m)	16.000								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface				8	7
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top				N	N
Deck Rideability				8	7
Deck Joints				N	N
Bump (Y/N)		No			Paved over.
Deck Drainage				7	7
Drains Clogged (Y/N)		No			
Curbs/Median				4	4
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		30			2 spalled with rebar exposed North end pier 2.
Bridge Rail				7	4
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts				7	7
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating				7	6
(Type : <b>GALVANIZED</b> )					
Sidewalk				X	X
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	Sp 2- G2 has spalling extending above top 1/2 of bar. Also narrow shear crack and deck underside is cracked and delaminated.
<b>Last</b>				3	
<b>Now</b>	0	0	1	1	
Girders				3	2
Last Complete Inspection Date		12-Jan-2012			Sp 3 -G3 has wide cracks in un-sound concrete in AZ both legs. Sp1-G4 and Sp3-G4 both have wide cracks in sound concrete. Narrow shear cracks Sp 2 -G2, G8, G9
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			NOT CENTERED OVER East PIER BUT ADEQUATE
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>				<b>3</b>	<b>2</b>

Substructure								
Bridge Component				Last	Now	Explanation of Condition		
<b>Abutments</b>								
(Extended Backwall Piles (Y/N) : Y)				BACKWALLS ARE EXTENDED 1.5m ON South SIDE BEYOND CURBS, 0.9m WIDER ON North SIDE				
(Extended Backwall Piles Spacing(mm) : 900)								
(Total Number of Caps/Corbels : 1:1)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
<b>Last</b>								
<b>Now</b>	0	0	0				0	
Bearing Seats/Caps/Corbels							7	7
(Type : STEEL)								
(Depth(mm) : 356)								
(Width(mm) : 356)								
Backwalls/Breastwalls				7	5	Minor gaps at West.		
Greatest Height (m)		0.90						
Wingwalls				7	7			
(Total Number of Bearing Piles : 7:7)				Buried.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
<b>Last</b>	14							
<b>Now</b>	14	0	0				0	
Piles							N	N
Paint/Coating							5	5
Abutment Stability							8	8
Scour/Erosion							6	5
<b>Piers/Bents</b>								
(Type : PIER-COLUMN)								
(Total Number of Caps/Corbels : 1:1)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>	0	0	0	0				
Bearing Seats/Caps/Corbels				7	7			
(Type : STEEL)								
(Depth(mm) : 360)								
(Width(mm) : 360)								
(Total Number of Bearing Piles : 9:9)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>								
<b>Now</b>	0	0	0	0				
Pier Shaft/Piles				7	6			
Greatest Height (m)		2.60						
Bracing/Struts/Sheathing				5	5			
Nose Plate				X	X			
Paint/Coating				6	4	Minor corrosion at pier caps.		
(Colour Description : )								
(Colour Code : )								
Pier Stability				7	6			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		4	5	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		5	5	Cut Banks U/S
HWM (m below Top of Curb)				NO HWM VISIBLE
Drift (Y/N)	No			
Slope Protection		4	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 1 post to rail bolt 5/8 x 12. Install 1 splice bolt.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS	2012	Repair or replace Sp 2 - G2 leg and deck underside - URGENT. Also repair or replace Sp 2- G3 rated 3.					
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	2012	Patch curb with 0.1m3 grout Re-attach Hazard @ SW					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.0/58.0</b>	Est. Repl. Yr	2020	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	William Reardon		Previous Assistant's Name				
Next Inspection Date	12-Apr-2015		Previous Inspection Date	04-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							