

Bridge Inspection										
Bridge File Number	76335 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	1				
Bridge or Town Name	LANGDON				Inspector Name	Garry Roberts				
Located Over	WID - GOOSE CK, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	560:02 C1 11.760				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	06-Jan-2012				
Legal Land Location	SW SEC 30 TWP 23 RGE 27 W4M				Data Entry By	Kelsey Roberts				
Longitude, Latitude	-113:45:43, 50:58:46				Data Entry Date	04-Feb-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney				
Contract Main. Area	CMA30				Review Date	18-Jan-2012				
Clear Roadway/Skew	10.7 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	4,310 / 2010 (A)				Dept. Review Date	06-Feb-2012				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	3									
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									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	SOUTH SIDE				Gas					
Power	NORTH SIDE 3W				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Int 791 200 m W All 4 corners extended and winged				
Vertical Alignment			8	8					
Roadway Width (m)	12.900				Not thriebeam				
Approach Bump			8	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	12.000								
Current Standard (Y/N)	No								
Termination Type	WINGEND								
Drainage			6	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, 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	0.0	0.0	0.0	0.0	
Wearing Surface			8	4	HCP is deteriorating along Sp.2 G8-G9-G10 girder lines in WBL. Edges have been patched.
(Material Type : ACP)					
(Thickness(mm) : 75)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	Paved over
Bump (Y/N)		No			
Deck Drainage			7	7	Scaling @ SE post @ W span curb
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Minor Spalls
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	1 POST NOT GALVANIZED @ SE
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	4	"SM" TYPE 1ST INT. BOTH SIDES Med crks @ end diaphragms Sp.1-G4, G6 and Sp.3-G5 all with wide AZ cracks in sound concrete. Several other girders with cracks in 1 leg only.
Last Complete Inspection Date		06-Jan-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	DOUBLE CAP ON 6 PILES AND SUBCAP	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			6	6		
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
Backwalls/Breastwalls			6	6	EAST ABUTMENT SHEETED ON OUTSIDE OF PILES	
Greatest Height (m)	2.10					
Wingwalls			6	3	Top of SW wing pile rotted	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles			8	6		
Paint/Coating			X	X		
Abutment Stability			6	6		
Scour/Erosion			8	7		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	DOUBLE CAP ON 8 PILES AND SUBCAP	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			7	6		
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Several pier piles sound rotted.	
Last						
Now	0	0	0	3		
Pier Shaft/Piles			4	3		
Greatest Height (m)			2.90			
Bracing/Struts/Sheathing			6	5		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						
Pier Stability			7	5		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	Yes			Appliance in canal
Substructure General Rating		4	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	7	Canal
Bank Stability		8	8	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		7	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Patch girder lines Sp.2- WBL. Check lateral connectors G8,G9,G10					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2012	Core all caps and piles and act on results					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Cut and treat top of SW wing pile and place tin cap.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/38.9	Sufficiency Rating (Last/Now) (%)	58.2/52.1	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	06-Apr-2015		Previous Inspection Date	04-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							