

Bridge Inspection							
Bridge File Number	09910 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1958/1958			Lot No.	2		
Bridge or Town Name	WESTLOCK			Inspector Name	Wade Nanninga		
Located Over	DAPP CK, 8.11.84.15, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	44:02 C1 17.384			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	25-Mar-2013		
Legal Land Location	NW SEC 28 TWP 61 RGE 26 W4M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-113:51:01, 54:18:30			Data Entry Date	16-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA10			Review Date	03-Apr-2013		
Clear Roadway/Skew	11 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	3,650 / 2012 (A)			Dept. Review Date	23-Apr-2013		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 70 GIRDER	Semi	CS2 93 GIRDER	Train	CS3 116 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	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								
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	1 line East r/w.		Municipal
Others			Problem (Y/N) No
Remarks	WSC gauge 100m u/s		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm entrances both ways.
Vertical Alignment		6	6	Limited sight distance to North & South of bridge due to crest curve. No passing SB.
Roadway Width (m)	11.000			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			With Thriebeam transition.
Guardrail		7	7	
Length (m)	30.400			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 2 Spans, Lengths(m): 21.3-18.3, A-Ident Number: A0999-73;A0999-72)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	10.0					
Wearing Surface			9	8	HPC overlay.	
(Material Type : CONCRETE)						
(Thickness(mm) : 75)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			5	4	New joints. Paving lip at N abutment has one 100mm dia spalls.	
Temperature (deg. C)		0				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
70		N. abut				
80		Pier				
75		S. abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			8	N		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			9	9	5 posts A/Bs with insufficient thread (1 thread) on nut.-snow covered	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			4	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			9	9		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	7	Slight negative camber in steel girder @ S2G4. S1G4 crack repaired with splice plate.7 Stitch weld	
Flange			6	6		
Web			6	6		
Stiffeners			X	X		
Splice			7	7		
Weld			6	5		
Diaphragms/Cross Frame			4	4	Cross frame S1 between G3G4 and G4G5 have cracked welds.-06-Jul-2011 S2 between G4 & 5 cross frame connection bolts missing bolt/nuts (photo).	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 2 Spans, Lengths(m): 21.3-18.3, A-Ident Number: A0999-73;A0999-72)				
Paint Condition		5	5	Few small rust spots on bottoms of bottom flanges. 5% peeling on webs. Girder ends at abutments painted during recent rehab.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		5	4	Bearings re-coated but top of some grout pads delam not filled; potential for spalling from freeze/thaw if water collects in delams (photo). Some bearings A/Bs bent.
Temperature (deg. C)	16			
(Expansion Type : SLIDING PLATE;ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Narrow transverse & map cracking through deck, south span at pier worst section. No staining. Narrow longitudinal cracks in deck U/S. Form nails protruding from underside.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		X	X	
Wingwalls		5	5	Narrow cracks with efflorescence.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				Narrow random cracking on West end.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	N	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandering stream.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	Slope protection, almost all bagged concrete is gone. North abutment has concrete debris on slope.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	2013	Repair paving lip spalls					
RESET/ PAINT BEARINGS	2013	Patch top surface of bearing grout pads where delam.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2013	Remove formwork nails protruding from deck underside.					
OTHER ACTION	2013	Repair crack welds on girder bracing.if not done					
OTHER ACTION	2013	Upgrade guardrail to meet standard length.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	69.8/69.6	Est. Repl. Yr	2040	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	Kris Bosters	Previous Assistant's Name	
Next Inspection Date	25-Dec-2014	Previous Inspection Date	06-Jul-2011
Inspection Cycle (Default) (months)	21		
Comment			