

Bridge Inspection											
Bridge File Number	72007 E-2 Bridge				Form Type	PSR					
Year Built/Year Supstr	1989/1989				Lot No.	2					
Bridge or Town Name	NITON JUNCTI				Inspector Name	Shane Hall					
Located Over	LOBSTICK RIVER, 8.11.84.51, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	16:08 R1 14.622				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	12-Aug-2012					
Legal Land Location	SE SEC 31 TWP 53 RGE 12 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-115:45:01, 53:37:03				Data Entry Date	10-Sep-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA12				Review Date	30-Aug-2012					
Clear Roadway/Skew	13.2 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	6,840 / 2011 (A)				Dept. Review Date	18-Sep-2012					
Road Classification	RAD-412.4-120				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 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	West end only. SW hazard post leaning and coming loose-Both signs in poor condition.-photo								
Other Sign Types	Information, "Lobstick River"								

Utilities (Located at)									
Utility Attachments									
Telephone	In median, between Hwys, South r/w.				Gas				
Power	4 wires South r/w.				Municipal				
Others	AB Supernet fibre optic, South r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Potholes in front of W paving lip in wheel path and E paving lip in both lanes (photo).					
Vertical Alignment		7	7						
Roadway Width (m)	12.700			Terminal ends @ E. end.					
Approach Bump		4	3						
Guardrail (Y/N)	Yes								
Guardrail		6	6						
Length (m)	64.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage		4	4	Gully on W. headslope 600 x 600 x 3 m (photo). Appears water is running behind W abutment. No staining on W. abut seat. Narrow erosion gully along NW wingwall.					
Approach Road General Rating		7	3						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 40, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			4	5	Transverse and random cracking.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	Leaking/staining evident on East abutment seat (photo). East paving lip spalling in several locations, rebar exposed in N lane.-photo Rubber membrane at E abutment is torn.-photo Leaking onto E abutment visible.-photo
Temperature (deg. C)		20			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
85		East abutment			
55		West abutment			
Deck Drainage			4	4	Leakage at East abutment through joint (photo).
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Typical shrinkage cracks. Local spall on exterior edge @ 4 post locations - photo.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	5% anchor bolts with insufficient thread & 5% grout pads spalling along post base plates.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now	0	0	0	2	
Girders			3	3	Hairline diagonal cracks at end block, curb girders. Finish on outside of curbs peeling, approx 20%. Epoxy repair on G6. Narrow crack in flange of G12 at E. abutment (photo).
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 12)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 40, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	
Temperature (deg. C)	6			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Delamination crack along East abutment cap - photo.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		4	4	Gully on West headslope. Settlement under West cap.-photo
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	6.0			HWM is grasses on shrubs under BF 72007W. -Sep 14, 2010
Drift (Y/N)	Yes			
Slope Protection		4	4	Erosion gully on West headslope. Water ponding in front of E abutment at top of headslope.-photo
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair East abutment joint seal & repair paving lip at West abut.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Fill gully on West headslope fill.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch pothole @ W. & E. ends.					
OTHER ACTION	2013	Install drain trough at NE corner.					
OTHER ACTION	2013	Flood deck to determine where water is coming from at W abut.					
OTHER ACTION	2013	Epoxy repair crack in flange @ G6(investigate cause of crack).					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	51.3/41.9	Est. Repl. Yr	2055	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking in G12.		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	Eric Caroux		Previous Assistant's Name				
Next Inspection Date	12-May-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							