

Bridge Inspection										
Bridge File Number	75341 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1963/1963					Lot No.	2			
Bridge or Town Name	LACOMBE					Inspector Name	Jason Saly			
Located Over	2:26 L1 26.392;2:26 R1 26.375					Inspector Class	BR CLS A			
Located On	14263:02 L1 0.320;14263:02 R1 0.257					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	20-Mar-2013			
Legal Land Location	SE SEC 9 TWP 41 RGE 26 W4M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:41:10, 52:30:38					Data Entry Date	01-Apr-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA19					Review Date	26-Mar-2013			
Clear Roadway/Skew	14 / 35 deg. (RHF)					Dept. Reviewer Name	Chris Black			
AADT/Year	6,230 / 2000 (E)					Dept. Review Date	09-Apr-2013			
Road Classification	RAU-210-110					Follow-Up By				
Detour Length (km)	6									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.0m, 2 R1 5.0m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.0	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.9	In Advance (Y/N)	Yes
Remarks												
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)		No										
Remarks			Not required.									
Other Sign Types		65 km/hr, Curve										

Utilities (Located at)									
Utility Attachments									
Telephone	Yes - no marker.					Gas			
Power						Municipal			
Others	Street light NW, SW corner, pier 2 East.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve both sides.
Vertical Alignment		6	6	Crest curve.
Roadway Width (m)	13.600			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Broken median concrete at N approach.
Guardrail		4	5	
Length (m)	99.000			
Current Standard (Y/N)	No			Not thrie beam.
Termination Type	Turn Down			
Drainage		6	6	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 4 Spans, Lengths(m): 14-28.7-28.7-19.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X	Light Standard Mount. East side @ center pier.	
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow/sand covered.
<b>Last</b>	0	0	0	1	
<b>Now</b>	25.0	0.0	0.0	0.0	
Wearing Surface			3	4	Seal coat over epoxy. (Epoxy 5% delaminated exposing deck top at joints - photo. 27Jan2007). Minor loss of chips along deck jnts. HDOL placed in 1984, epoxy placed in 1992, chip coat placed in 1996. 2009 deck report indicated 1m2 debonded HDOL.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			4	4	Leaking at abuts - photo. (S abut paving lip spalled & patched with ACP - paved over. 15Sep2011). (P3 cover plate bolts are loose. 15Sep2011). Possible jnt leakage at N pier jnts. Partially covered by dirt and snow.
Temperature (deg. C)		-3			
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
71		S. pier			
74		C. pier			
72		N. pier			
Deck Drainage			4	4	Leakage through abut jnts causing damage to abuts & end diaphragms.
Drains Clogged (Y/N)					
Curbs/Median			4	N	(Corner spalls 400 x 200mm @ SE corner - photo. Top of median 5% light scaling & 0.3mm wide transverse cracks every 300mm. Spall exposing rebar @ NW, SE - photo. 15Sep2011) - Snow covered.
(Curb Type : <b>Standard</b> )		Scaling (Percent Area)		3	
Bridge Rail			6	5	One panel each side with bent verticals, no problem.  (Delam grout pad under 2 posts, East side - photos. 15Sep2011) - Base plates snow covered.
(Type : <b>GALVANIZED STEEL VERTICAL BAR</b> )					
Bridge Rail Posts		4	N		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	6		
(Type : <b>PAINT</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 14-28.7-28.7-19.2, A-Ident Number: )				
Girders		4	4	Some staining S2G5. High load damage NBL S1G1, minor scrapes, chips @ W fascia S2. Longit. crack in top flange of S2G5.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 34)				
Diaphragms/Cross Frame		4	4	End diaphragms @ abuts are cracked & spalling with rust staining. Steel diaphragms are corroded at abuts.
Bearings		5	5	Expansion: P1, P2. Fixed: A1,A2  Corrosion @ most abutment bearings.
Temperature (deg. C)	-3			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	U/S scaling/popout exposing rebar due to low cover at S4G5/6 - photo. Wet looking staining btwn S1G4,5; S4G4-6. Exposed rebar btwn S4G5,6.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		5	4	Corrosion stains along face, possibly steel chairs. Surface delams due to jnt leakage.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	
Piles		N	N	Buried.
Paint/Coating		X	4	Pigmented sealer peeling.
Abutment Stability		7	7	
Scour/Erosion		5	5	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				East end of center pier cracked/stained at light standard connection. E end of S pier has horiz. crack.
Bearing Seats/Caps		6	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				3 columns each pier. Vertical cracks south shaft center pier 2 @ 1.5mm wide x 1m long and 0.5m long.
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>4</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		5	5	Alignment in curve with superelevation.
Traffic Safety Features		5	5	
Type	Guardrail			
Slope Protection		7	6	25mm gap East abutment South half. Both sideslopes settled 100mm.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Grout 2 posts (if not yet done), repair pedestal at NW.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch curb at SE corner, NW corner, if not yet done.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2013	Spray patch chip seal coat.					
REPAIR/REPLACE DECK JOINTS	2013	Tighten P3 cover bolts, it not yet done. Install drain trough at backwall to carry drainage away from bearings. Consider waterproof jnts next rehab.					
RESET/ PAINT BEARINGS	2013	Paint bearings.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Clean & seal abuts.					
OTHER ACTION	2013	Seal P2 crack at light standard.					
OTHER ACTION	2013	Patch deck underside spalls.					
OTHER ACTION	2013	Patch concrete end diaphragms.					
OTHER ACTION	2013	Inject epoxy into girder cracks.					
OTHER ACTION	2020	Install HPC o/l at major rehab.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.7/44.2</b>	Est. Repl. Yr	2021	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	20-Dec-2014		Previous Inspection Date	15-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							