

Bridge Inspection											
Bridge File Number	75339 S-2 Bridge				Form Type	SG					
Year Built/Year Supstr	1962/1962				Lot No.	1					
Bridge or Town Name	LACOMBE				Inspector Name	Randy Bredo					
Located Over	CPR				Inspector Class	BR CLS A					
Located On	2:26 L1 14.894				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	18-Oct-2012					
Legal Land Location	NE SEC 15 TWP 40 RGE 27 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:48:19, 52:26:36				Data Entry Date	20-Nov-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA19				Review Date	01-Nov-2012					
Clear Roadway/Skew	12.2 / 32 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	30,370 / 2011 (A)				Dept. Review Date	26-Nov-2012					
Road Classification	RFD-412.4-130				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:	HS20									---> Primary Span	

Posting Information											
Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)										No	
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks										Not required.	
Required Load Posting (t)			Single		Semi		Truck Train				
Posted Loading (t)			Single		Semi		Truck Train				
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)				
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											
Other Sign Types											

Utilities (Located at)											
Utility Attachments											
Telephone	Yes - no marker.				Gas						
Power					Municipal						
Others					Problem (Y/N)	No					
Remarks											

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	On crest curve.
Vertical Alignment		7	7	
Roadway Width (m)	11.500			No rail @ SE. Not as per PL2 standards.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	85.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	
Approach Road General Rating		7	7	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RB, 3 Spans, Lengths(m): 14.9-18.9-14.9, A-Ident Number: A0384-02)							
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	0.0	0.0	0.0	0.0			
Wearing Surface			4	4	Asphalt rutted in slow lane.		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			6	6			
Deck Joints			4	4	Missing all but 2 plow deflectors on each joint. A1 jnt male plate is 30mm higher than male; gap lessens toward c/l, but estimated at 10mm.		
Temperature (deg. C)		9					
(Expansion Type : SLIDING PLATES)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
68		N. abut					
65		S. abut					
Deck Drainage			4	3	(Shallow bird baths at abut corners. 01/10/16). U/S deck delams below abut joints related to joint leakage plus scale & spall at A2 seat. NW ABS pipe elbow cracked on jnt drain allowing water to drain under slope protection.		
Drains Clogged (Y/N)		No					
Curbs/Median			5	5	Crack at SE cover plate. Typical vertical cracks at 1.5m spacing. Curb soffit has 2% delam with numerous weeping vertical cracks.		
(Curb Type : Standard)							
Scaling (Percent Area)		0					
Bridge Rail			5	4	Retrofit rail installed. W13 & W14 is bowed with some bent verts. Minor bent verticals @ E12, no problem. WP13 grout pad cracked/spalled caused by lack of blockout; blockout right beside is selaed 20mm deep.		
(Type : GALVANIZED STEEL VERTICAL BAR)							
Bridge Rail Posts			5	5			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			7	7			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			7	7	Slight sag in S2 girders, minor.		
Flange			5	5			
Web			6	6			
Stiffeners			X	7			
Splice			7	7			
Weld			7	7			
Diaphragms/Cross Frame			7	7			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 14.9-18.9-14.9, A-Ident Number: A0384-02)					
Paint Condition		6	5	Paint peeling btwn topcoat & primer, 2%.	
(Colour Description : BROWN)					
(Colour Code : 504-106)					
Touchup Required (Y/N)	No				
Bearings		4	4	All S abut bearings blocked with TT and shimmed tight, similar to NBL structure. Corner rocker bearings & A1G5 rust jacked up to 5mm.	
Temperature (deg. C)	9				
(Expansion Type : ROCKER BEARING)					
(Fixed Type : REINFORCED PAD BEARING)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	Yes				
Deck Underside		4	4	Random efflorescence @ cracks. Deck underside at abut jnts is contaminated with salts, resulting in rust stains & delaminations.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	Yes				
Superstructure General Rating		4	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		5	5	Surface heavy scaling A2 btwn G6,7 bearings; probably related to leaking from damaged paving lip at jnt above - photo.	
(Type : CONCRETE)					
Backwalls/Breastwalls		6	6		
Wingwalls		7	4	NE base of wingwall interface heavily scaled exposing rebar.	
Piles		N	N		
Paint/Coating		X	X		
Abutment Stability		7	7		
Scour/Erosion		X	3	Water gaining access to NW underside of concrete slope protection.	
Piers/Bents					
(Type : PIER-COLUMN)					
Bearing Seats/Caps		7	7	Two columns each pier. Random vertical cracks 0.3mm x 300mm.	
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		7	7	Gray.	
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7		
Scour		X	X		
Debris (Y/N)	No				
Substructure General Rating		5	5		

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type	None			
Slope Protection		5	5	60mm gap S abut/slope; 40mm gap N abut/slope. Silt flows out @ toe of N. Heaved 100mm @ N @ toe, 8m x 4m area.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

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	2013	Replace asphalt with concrete overlay.								
REPAIR/REPLACE DECK JOINTS	2013	Replace with waterproof deck joints, recast paving lip & patch deck U/S.								
RESET/ PAINT BEARINGS	2013	Replace bearings with neoprene pads.								
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Replace cracked ABS drain pipe & increase slope.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	54.1/52.8	Est. Repl. Yr	2037	Maint. Req'd. (Y/N)	Yes			
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date							Estimated Total	0	
Proposed Long-Term Strategy	2008.01.29 Adandonment might not take place until 2015 or later. Chip seal deck in 2008/09 as part of Hwy program.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	18-Jul-2014	Previous Inspection Date	14-Sep-2011							
Inspection Cycle (Default) (months)	21									
Comment										

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	2013	Replace asphalt with concrete overlay.	Defer until next rehab	2017		
REPAIR/REPLACE DECK JOINTS	2013	Replace with waterproof deck joints, recast paving lip & patch deck U/S.	Defer until next rehab	2017		
RESET/ PAINT BEARINGS	2013	Replace bearings with neoprene pads.	Defer until next rehab	2017		
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Replace cracked ABS drain pipe & increase slope.	Defer until next rehab	2017		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	54.1/52.8	Est. Repl. Yr	2037	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Bridge and deck rehab currently scheduled for 2017. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	18-Apr-2013	Estimated Total	0
Proposed Long-Term Strategy	2008.01.29 Adandonment might not take place until 2015 or later. Chip seal deck in 2008/09 as part of Hwy program.					
On 3-Year Program (Y/N)						
Proposed Action						

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	18-Jul-2014	Previous Inspection Date	14-Sep-2011
Inspection Cycle (Default) (months)	21		
Comment			