

Bridge Inspection							
Bridge File Number	76181 W-2 Bridge			Form Type	SG		
Year Built/Year Supstr	1967/1967			Lot No.	2		
Bridge or Town Name	LETHBRIDGE			Inspector Name	Garry Roberts		
Located Over	RAMP 76-1 B;CPR			Inspector Class	BR CLS A		
Located On	3:08 L1 45.646			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	02-Dec-2011		
Legal Land Location	NW SEC 10 TWP 9 RGE 22 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-112:54:41, 49:43:18			Data Entry Date	08-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Joel Wozney		
Contract Main. Area	CMA25			Review Date	12-Dec-2011		
Clear Roadway/Skew	12.2 / 49 deg. (RHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	15,020 / 2010 (A)			Dept. Review Date	10-Jan-2012		
Road Classification	RFD-412.4-130			Follow-Up By			
Detour Length (km)	1						
Allowable Load (t):	Single	CS1 41 GIRDER	Semi	CS2 55 GIRDER	Train	CS3 71 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)			UNDER: 76-1-B 6.7m										
Posted Vertical Clearance (Y/N)			Yes										
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks		signed on bridge on W/B structure- Measured V.C. May 20/10. Posting of 6.1 is accurate.											
Required Load Posting (t)			Single				Semi				Truck Train		
Posted Loading (t)			Single				Semi				Truck Train		
Posted:	Lane	EB	At Junction (Y/N)				In Advance (Y/N)				At Bridge (Y/N)		
Posted:	Lane	WB	At Junction (Y/N)		No		In Advance (Y/N)		No		At Bridge (Y/N)		No
Remarks		Not req.											

Hazard Marker At Bridge (Y/N)	No										
Remarks											
Other Sign Types		CURVE									

Utilities (Located at)				
Utility Attachments				
Telephone	North side		Gas	South 150 m
Power	South		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	
Vertical Alignment		6	6	
Roadway Width (m)	12.200			
Approach Bump		6	6	
Guardrail (Y/N)		Yes		Poor splice and missing 4 bolts at SE. Wrong lap at NE, SE, SW.
Guardrail		4	4	
Length (m)		23.000		Not thriebeam.
Current Standard (Y/N)		No		
Termination Type		TURNED DOWN		
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>RB, 4 Spans, Lengths(m): 18.9-23.8-23.8-18.9, A-Ident Number: A0559-02</b> )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	NARROW LONGITUDINAL CRACKS & MAP CRACKS. wide spread
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	4	Skew pressure has fingers tight on joints. Curb plates 40% corrosion pitted. Open gap at SW finger 20 mm x 5 m long.
Temperature (deg. C)		-4			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
15		East			
65		West			
Deck Drainage			4	5	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Transverse cracks at 1 to 2 m spacing and isolated corrosion stains at curbs
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	3	Missing 1 rail to post bolt and 2 others are loose 4 post A/Bs are short and 1 other bent  Bolt missing @ 10th from NW Accident damage Sp. 3 North rail with 2 damaged posts and 3 rail sections. Rail panels are 3240 - 670 high.
(Type : <b>VERTICAL BAR</b> )					
Bridge Rail Posts		4	3		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate		4	4	(G1 over P3 W end has 2 cracks on cover plate return welds) from Level 2 inspection	
Flange		7	7		
Web		7	7		
Stiffeners		7	7		
Splice		7	7		
Weld		7	7		
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>RB, 4 Spans, Lengths(m): 18.9-23.8-23.8-18.9, A-Ident Number: A0559-02</b> )				
Paint Condition		4	4	Isolated paint area failed (exterior bottom flange) @ S ends of piers
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Touchup Required (Y/N)	No			
Bearings		4	4	Neoprene @ W pier is sliding out, worst @ 4th bearing from south, also displaced at most of East abut. bearings - worst is G1.  P1 and P3 bearings are fully expanded.
Temperature (deg. C)	-4			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	No			
Deck Underside		6	6	Random transverse cracks with efflorescence.
Stains (Percent Area)	1			
<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		6	6	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		4	4	Tar coat peeling
Abutment Stability		6	6	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Pier Stability		6	6	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	Curve
Traffic Safety Features		7	4	Wrong lap at NW
Type	GUARDRAIL			
Slope Protection		6	6	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		5	5	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>4</b>	

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	Reset or replace all bearing pads					
RESET/ PAINT BEARINGS							
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							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.9/56.4</b>	Est. Repl. Yr	2030	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	02-Sep-2013		Previous Inspection Date	20-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							