

Bridge Inspection							
Bridge File Number	76181 E-1 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 R1 45.986			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	-112:54:40, 49:43:17			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 6.1m								
Posted Vertical Clearance (Y/N)		Yes								
Posted:	Lane	NB	On Bridge (m)	6.1	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	One way road - not req'd s/b Measured V.C. May 20, 2010 6.1 posting is accurate									
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)		No								
Remarks										
Other Sign Types		CURVE								

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves to the west. Hill to the east.
Vertical Alignment		6	6	
Roadway Width (m)		12.200		Poor splice and missing 4 bolts at SW Wrong lap at NW Not thriebeam
Approach Bump		6	6	
Guardrail (Y/N)		Yes		
Guardrail		4	4	
Length (m)		23.000		
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, 4 Spans, Lengths(m): 18.9-23.8-23.8-18.9, A-Ident Number: A0559-01)							
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			6	6	NARROW MAP CRACKING & longitudinal		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			5	5	Skew pressure has finger tight to side @ both jnt. 40% corrosion pitting on curb cover plates. Fingers on E side of E jnt on driving lane 10mm higher than other plates. High points beveld Galvanized steel trough & drip plates.		
Temperature (deg. C)		-4					
(Expansion Type : FINGER PLATES)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
30		East					
45		West					
Deck Drainage			4	5			
Drains Clogged (Y/N)		No					
Curbs/Median			7	7	Transverse cracks at 1 to 2 m.		
(Curb Type : Standard)							
Scaling (Percent Area)		0					
Bridge Rail			5	3	3rd from SW Has 3 bent verticals and 1 broken and 10 bent Sp.3 over P2.		
(Type : VERTICAL BAR)							
Bridge Rail Posts			6	6	A few A/B nuts are just flush		
(Type : GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			6	5			
(Type :)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			7	7	Vertical stiffeners over bearings		
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 : RB, 4 Spans, Lengths(m): 18.9-23.8-23.8-18.9, A-Ident Number: A0559-01)				
Paint Condition		5	5	
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		5	5	A/B'S BENT @ PIERS Bearing plates moved as much as 50 mm transverse off masonry plates at abuts and piers. Anchor bolts @ end of slot in bearing plate or bent @ piers Steel shim plate @ bearing #4 @ east abut displaced - no problem Shims displaced at East abut. bearings.
Temperature (deg. C)	-4			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Minor efflorescence at isolated areas
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			End spans moved slightly N&S at abuts and south at west pier.
Horizontal (Y/N)	Yes			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		6	6	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Curve
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair broken and bent lattice at Sp.3 - South rail.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
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							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	61.8/60.5	Est. Repl. Yr	2033	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							