

Bridge Inspection										
Bridge File Number	80659 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1985/1985				Lot No.	2				
Bridge or Town Name	LETHBRIDGE				Inspector Name	Garry Roberts				
Located Over	14216 RW-MAIN				Inspector Class	BR CLS A				
Located On	3:09 L1 5.368;3:09 R1 5.344				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Dec-2011				
Legal Land Location	SE SEC 6 TWP 9 RGE 21 W4M				Data Entry By	Anne Roberts				
Longitude, Latitude	-112:49:28, 49:41:55				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	21.1 / 12 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	22,370 / 2010 (A)				Dept. Review Date	12-Jan-2012				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)										
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 Vert. Clearance Posting (m)	UNDER: 14216 C1 5.7m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No
Remarks	POSTED SB @ RAILWAY BRIDGE TO N @ 5.3M										
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)	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	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE									
Telephone					Gas					
Power	@ SE				Municipal	Manhole @ NE				
Others	Light standards				Problem (Y/N)	No				
Remarks	Conduits @ both deck und side exteriors - abandoned									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve to W City file 85-000-6 on crest curve - 13th Street				
Vertical Alignment			5	5					
Roadway Width (m)			21.100		Cracks @ approaches				
Approach Bump			5	5					
Guardrail (Y/N)			Yes		Crack @ NW @ Map cracks @ NE parapets				
Guardrail			4	4	100mm lean @ NE parapet				
Length (m)			99.000						
Current Standard (Y/N)			Yes						
Termination Type			TURNDOWN						
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 1 Spans, Lengths(m): 35, 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	0.0	0.0	0.0	0.0	
Wearing Surface		X	7	Some narrow transverse cracks	
(Material Type :)					
(Thickness(mm) :)					
Deck Top		7	7	Concrete deck	
Deck Rideability		7	7		
Deck Joints		4	4	Several counter sunk bolts missing @ each joint Previous measurement in error	
Temperature (deg. C)		-2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				Stained @ W back & breastwall (Active Leakage Seen on Backwall @ west)	
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				No active leakage this inspection	
Gap Size (mm)		Gap Location			
70		E abut			
40		W abut			
Deck Drainage		5	5	Staining at West breastwall may be from previous leakage	
Drains Clogged (Y/N)		No			
Curbs/Median		7	7	Concrete parapet @ ctr. Steel HSS tube rail on steel box posts	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail		3	3	Damaged @ NE-500mm section bent in & torn 100mm deep Some crks & minor spalls @ grout pads	
(Type : BRIDGE TUBE)					
Bridge Rail Posts		6	6	Paint galvanizing-paint 10-% peeled	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		4	4		
(Type : PAINT)					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		X	X	Steel tubs	
Flange		7	7	inside	
Web		7	7		
Stiffeners		N	N		
Splice		7	X		
Weld		7	7		
Diaphragms/Cross Frame		N	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 1 Spans, Lengths(m): 35, A-Ident Number:)				
Paint Condition		X	X	weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	-2			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Minor stains @ ext
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	Vertical cracks
Wingwalls		6	4	Spalled at SE, NE
Piles		N	N	Buried
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
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		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Traffic lights & intersection N&S
Traffic Safety Features		7	7	
Type	Median			
Slope Protection		5	6	cracked @ East
(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 @ NE-weld in new section					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	investigate leakage @ W abut. if not already done.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Reset NE parapet					
OTHER ACTION	2012	Repair NE and SE wing spalls					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	66.1/66.1	Est. Repl. Yr	2052	Maint. Req'd. (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	03-Sep-2013		Previous Inspection Date	04-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							