

Bridge Inspection											
Bridge File Number	80843 -1 Bridge				Form Type	CON					
Year Built/Year Supstr	1985/1985				Lot No.	2					
Bridge or Town Name	LETHBRIDGE				Inspector Name	Garry Roberts					
Located Over	RAMP 4083-1 C				Inspector Class	BR CLS A					
Located On	3:09 R1 6.413;3:09 L1 6.437				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	01-Dec-2011					
Legal Land Location	NE SEC 32 TWP 8 RGE 21 W4M				Data Entry By	Anne Roberts					
Longitude, Latitude	-112:48:35, 49:41:51				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	22 / 39 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)	1										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span	

Posting Information										
Required Vert. Clearance Posting (m)	UNDER: 4083-1-C 5.2m									
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not required									
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 req'd									
Hazard Marker At Bridge (Y/N)	No									
Remarks										
Other Sign Types	ROUTE, MERGE, 70KM/HR									

Utilities (Located at)										
Utility Attachments	GAS UTILITIES-GAS LINE; OTHER UTILITIES-OTHER LINES; TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE									
Telephone	@ north				Gas	E abutment				
Power	5W 150m north				Municipal					
Others	Light standards				Problem (Y/N)	No				
Remarks										

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				5	5	City File 85-000-9				
Vertical Alignment				5	5	Curve to west On vertical crest				
Roadway Width (m)	22.000					Located over Mayor Magrath W/B collector				
Approach Bump				6	6					
Guardrail (Y/N)	Yes					Guardrail is concrete parapets.				
Guardrail				3	3	Spalled at NW. offset 50mm at SW				
Length (m)	15.000									
Current Standard (Y/N)	Yes									
Termination Type	BEVEL END									
Drainage				7	7					

Approach Road					
		Last	Now	Explanation of Condition	
Approach Road General Rating		5	5		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CS, 1 Spans, Lengths(m): 25.7, 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	6	Deck top is wearing surface	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top		6	6	Medium width cracks @ ends of deck	
Deck Rideability		7	7		
Deck Joints		7	7		
Temperature (deg. C)		-2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
65	E abut				
70	W abut				
Deck Drainage		6	5	No drains Drains btwn EB & WB structures - no deterioration yet	
Drains Clogged (Y/N)		No			
Curbs/Median		7	7	Parapets @ center	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		7	7	3 steel round tubes on square HSS posts @ exterior with concrete parapets @ centre. 20% paint failure on galvanizing on steel	
(Type : BRIDGE TUBE)					
Bridge Rail Posts		7	7		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	5		
(Type : PAINT)					
Sidewalk		X	X		
Girders		X	X		
Diaphragms/Cross Frame		X	X		
Bearings		7	7	Covered in with expanded metal mesh What is seen from ground rates '7'	
Temperature (deg. C)		-2			
(Expansion Type : POT BEARING)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 1 Spans, Lengths(m): 25.7, A-Ident Number:)				
Deck Underside		7	7	Stains @ 50mm gap btwn EB & WB structures
Stains (Percent Area)	5			
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		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
Pier Shaft/Piles		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	7m road under bridge on curve
Traffic Safety Features		4	7	
Type	PARAPETS			
Slope Protection		8	8	
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation General Rating		4	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair spall at NW approach 0.6 X 0.5					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	65.6/66.8	Est. Repl. Yr	2061	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	01-Sep-2013		Previous Inspection Date	04-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							