

Bridge Inspection									
Bridge File Number	76658 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1970/1970				Lot No.	2			
Bridge or Town Name	MORLEY				Inspector Name	Garry Roberts			
Located Over	1:04 L1 16.723;1:04 R1 16.688				Inspector Class	BR CLS A			
Located On	25014:02 C1 0.157				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Feb-2012			
Legal Land Location	NE SEC 24 TWP 25 RGE 7 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:50:36, 51:08:52				Data Entry Date	13-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	22-Feb-2012			
Clear Roadway/Skew	8.5 / 9 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,000 / 1988 (E)				Dept. Review Date	22-Mar-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 35	Semi	CS2 62	Train	CS3 76 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 1 L1 5.3m, 1 R1 5.2m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		Confirmed vertical posting is accurate Sept 16, 2010										
Required Load Posting (t)		Single			Semi			Truck Train				
Posted Loading (t)		Single			Semi			Truck Train				
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
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	Not required											
Other Sign Types												

Utilities (Located at)												
Utility Attachments												
Telephone	All through the area.					Gas						
Power	North side.					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)	8.500				
Approach Bump		6	6		
Guardrail (Y/N)	Yes			Short laps at NW, SE, SW. Minor damage at NW. Missing isolated splice bolts	
Guardrail		4	4		
Length (m)	70.000				
Current Standard (Y/N)	No			Not thriebeam	
Termination Type	TURNED DOWN END				
Drainage		7	7		
<b>Approach Road General Rating</b>		<b>7</b>	<b>6</b>		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 33.5-33.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		4	7	Dwydag bars	
(Type : <b>EXT LATER POST TENS</b> )				Pedestrian fenceing on bridgerail	
Special Feature			4	3 damaged posts at NE corner of Sp.1 and 6 at SW of Sp. 1	
(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		7	7	Fibre Rein /Concrete	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	6	FINGER PLATE @ N abut gland @ pier & S abut. Perforation in NE curb corner plate.	
Temperature (deg. C)		-12			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC);FINGER PLATES</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
70		N ABUT			
80		PIER			
75		S ABUT			
Deck Drainage		6	4	SE retrofit extension is detached from drain.	
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	250 x 100 hole at SW corner. Spalls at SE and SW	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail		7	7	Several post A/B nuts are just flush. MINOR Corrosion @ bases	
(Type : <b>STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	6		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		5	5		
(Type : )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders		5	5	Narrow WIDTH CRACKS IN GIRDER UNDERSIDE NEAR ENDS (TYPICAL FC). Girder & minor spall. Longitudinal crack @ exterior @ SE Coating peeled @ girder patch @ SW Minor high load damage @ SW fascia girder Sp. 2	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 33.5-33.5, A-Ident Number: )				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	Bearings are connected over pier
Temperature (deg. C)	-12			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		4	4	Pigmented sealer- peeling at wings.
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				Corrosion crack at West end of pier
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	5	Pigmented sealer
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
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		8	8	
Traffic Safety Features		4	4	Wrong lap at NW and SE
Type	GUARDRAIL			
Slope Protection		7	7	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 9 galvanized safety fence posts.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Repair curb hole and spalls approx 1.5m2.					
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	2012	Install 2 sect of flexbeam with correct lap & bolts @ SE/SW and NW.					
OTHER ACTION	2012	Reattach SE deck drain.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.5/63.5</b>	Est. Repl. Yr	2035	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	10-Nov-2013		Previous Inspection Date	16-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							