

Bridge Inspection										
Bridge File Number	76848 E-1 Bridge					Form Type	SG			
Year Built/Year Supstr	1969/1969					Lot No.	2			
Bridge or Town Name	AIRDRIE					Inspector Name	Garry Roberts			
Located Over	2:18 L1 9.744;2:18 R1 9.749;RAMP 37-2 F					Inspector Class	BR CLS A			
Located On	567:05 R1 3.211					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	13-Sep-2011			
Legal Land Location	SE SEC 13 TWP 27 RGE 1 W5M					Data Entry By	Alyssa Boynton			
Longitude, Latitude	-114:00:09, 51:17:60					Data Entry Date	20-Oct-2011			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Ash Morjaria			
Contract Main. Area	CMA29					Review Date	08-Oct-2011			
Clear Roadway/Skew	11.6 /					Dept. Reviewer Name	Tim Davies			
AADT/Year						Dept. Review Date	28-Oct-2011			
Road Classification	RCU-209-110					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:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.3m, 2 R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks		Signed 5.3 for s/b on new structure to north										
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										

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types		ROUTE, TOWN ID.										

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE		
Telephone	South of overpass	Gas	(Both north & south)
Power	Attached to deck underside	Municipal	Lighting under bridge
Others	Street lights on bridge	Problem (Y/N)	Yes
Remarks		MARKER FOR GAS SEEN ONLY @ N Power conduit broken @ SE wing	

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	TRAFFIC LIGHTS @ BOTH ENDS
Vertical Alignment		6	6	Roadway widens for turnout lanes and is 9.0 m E & W of bridge.
Roadway Width (m)	9.000			Potholes at West approach and West abutment joint.
Approach Bump		5	4	
Guardrail (Y/N)	Yes			Wrong lap at NW
Guardrail		4	4	Concrete barrier at SW and SE. Thriebeam bullnose at NW and NE Spall at SE barrier top.
Length (m)	49.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN ENDS			
Drainage		7	7	

Approach Road				
		Last	Now	Explanation of Condition
Approach Road General Rating		6	6	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 39.6-45.7, A-Ident Number: A1566-03)				
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	Center 1.5m is concrete. Chipcoat 5% worn. Chipcoat on epoxy overlay on concrete. Estimate 50-60mm total thickness.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)				
(Thickness(mm) : 50)				
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		7	7	
Temperature (deg. C)		10		
(Expansion Type :)				
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
Gap Size (mm)		Gap Location		
70		East		
66		West		
Deck Drainage		6	6	RETROFIT DRAINS @ E SPAN.
Drains Clogged (Y/N)		No		
Curbs/Median		7	7	Vertical cracks. Open grout pad recess at SE from previous light standard.
(Curb Type : NEW JERSEY)				
Scaling (Percent Area)		1		
Bridge Rail		7	7	Orange paint weathered off, galvanized still good.
(Type : STEEL BRIDGE TUBE)				
Bridge Rail Posts		7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)				
Bridge Rail/Posts Coating		7	7	
(Type :)				
Sidewalk		8	6	South side- 2.5m wide. Several gouged areas in chipcoat.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 39.6-45.7, A-Ident Number: A1566-03)				
Girder/Beam				
Cover Plate		X	X	Inside steel tubs
Flange		7	7	
Web		7	7	
Stiffeners		N	N	
Splice		7	7	
Weld		7	7	
Diaphragms/Cross Frame		7	7	
Paint Condition		5	4	Pink Isolated corrosion at bottom flanges.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		6	4	Pier bearings slightly deflected Sp.1 - G1 abut. bearing pad is displaced 55mm.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Transverse cracks with corrosion stains at west span.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Vertical hairline to narrow cracks.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				Massive pier
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Lens broken @ n/b lane Hwy 2 at pier NW lens cover @ Hwy 2 NB @ east abut
Traffic Safety Features		8	8	
Type	Bullnose Guardrail			At center median
Slope Protection		7	7	Galv. deflector plates at West slope
(Type : CONCRETE)				
Bank Stability		7	7	
Drainage		6	6	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Patch SE barrier 0.5 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	2012	Reset bearing pad A1-G1					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Grout recess at SE barrier top.					
OTHER ACTION	2011	Patch 2 potholes at West approach 0.25m3 ACP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	70.4/65.1	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	13-Jun-2013		Previous Inspection Date	29-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							