

Bridge Inspection											
Bridge File Number	81894 E-1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1996/1996					Lot No.	4				
Bridge or Town Name	MONARCH					Inspector Name	Garry Roberts				
Located Over	MUNICIPAL					Inspector Class	BR CLS A				
Located On	3:08 R1 30.941					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	30-Nov-2011				
Legal Land Location	SW SEC 4 TWP 10 RGE 23 W4M					Data Entry By	Anne Roberts				
Longitude, Latitude	-113:04:20, 49:47:25					Data Entry Date	09-Jan-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Joel Wozney				
Contract Main. Area	CMA25					Review Date	13-Dec-2011				
Clear Roadway/Skew	12.4 / 5 deg. (RHF)					Dept. Reviewer Name	Tim Davies				
AADT/Year	7,390 / 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:	CS750					----> Primary Span					

Posting Information										
Required Vert. Clearance Posting (m)					UNDER: MUNICIPAL 5.4m					
Posted Vertical Clearance (Y/N)					Yes					
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Signed 5.4 on W/B structure for S/B Confirmed V.C. is accurate May 20, 2010									
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 @ LOCAL ROAD, ICY BRG DECK					

Utilities (Located at)										
Utility Attachments					TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE					
Telephone	South ROW					Gas				
Power	3W-200m to NW					Municipal				
Others	Fibre Optics @ South ROW					Problem (Y/N)	No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Hill to W				
Vertical Alignment			6	6					
Roadway Width (m)			12.500						
Approach Bump			5	6					
Guardrail (Y/N)			Yes		Missing 4 splice bolts at NW				
Guardrail			4	4					
Length (m)			87.000		Not Thriebeam				
Current Standard (Y/N)			No						
Termination Type			TURN DOWN						
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CBC, 1 Spans, Lengths(m): 33.5, 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			7	6	Minor concrete - abrasion @ SW. Random cracking throughout
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			5	5	No drains
Drains Clogged (Y/N)		No			
Curbs/Median			8	8	transverse crks & efflorescence
(Curb Type : Standard)					
Scaling (Percent Area)					
Bridge Rail			8	8	
(Type : BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			8	8	Coating failed top of bottom flange @ SW
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 6)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 1 Spans, Lengths(m): 33.5, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	-1			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Cracks & efflorescence
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	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried
Paint/Coating		X	X	
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		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Approaches at both ends
Traffic Safety Features		X	X	
Type				
Slope Protection		5	5	Pulled away 80mm and down 150mm @ E
(Type : CONCRETE; CONCRETE)				& Away 70mm and down 50mm @ W Cracking @ east toe
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							
GALVANIZE/PAINT 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) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	69.6/69.5	Est. Repl. Yr	2061	Maint. Req. (Y/N)	No
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	30-Aug-2013		Previous Inspection Date	20-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							