

Bridge Inspection									
Bridge File Number	00887 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1957/1957				Lot No.	3			
Bridge or Town Name	MONARCH				Inspector Name	Garry Roberts			
Located Over	OLDMAN RIVER, 2.12, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	3A:08 C1 1.427				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	30-Nov-2011			
Legal Land Location	SE SEC 1 TWP 10 RGE 24 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-113:07:23, 49:47:26				Data Entry Date	08-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA25				Review Date	07-Dec-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	2,080 / 2010 (A)				Dept. Review Date	10-Jan-2012			
Road Classification	RAU-213-130				Follow-Up By				
Detour Length (km)	2								
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 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	No passing, river i.d, curve.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	Conduit attached to deck.				Gas				
Power	200 m NORTH 3W				Municipal				
Others					Problem (Y/N)	No			
Remarks	at underside and at S. r/w								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve at west end - gradual curve east - blind hill to the west.				
Vertical Alignment			4	4					
Roadway Width (m)		13.400	Recently patched						
Approach Bump			6	7					
Guardrail (Y/N)		Yes	Creased but functional Not thriebeam						
Guardrail			6	5					
Length (m)		48.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			5	5	Minor erosion at SE				
Approach Road General Rating			4	4					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 5 Spans, Lengths(m): 27.4-37.8-37.8-37.8-27.4, 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			5	5	Wide spread transverse and longitudinal cracks - NARROW & MEDIUM WIDTH
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			5	5	
Temperature (deg. C)		-3			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
90		W. abut			
75		E. abut			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Flexural cracks every 1.8 m and snowplow abrasions. Isolated rebar spalls and medium scaling at NE.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			6	6	30% posts cracked or delaminated. Retrofit brackets are helping to contain post spalls
(Type : BRIDGE TUBE)					
Bridge Rail Posts			5	5	Tube rail over steel panels. Several crash tubes bent slightly.
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	5	
(Type :)					
Sidewalk			X	X	
Girders			4	4	Wide spread narrow flexural cracks Narrow shear cracks @ North and South Fascia girders @ West Span and medium shear crack at SW fascia
Diaphragms/Cross Frame			6	6	
Bearings			6	6	Roller bearings at abuts.
Temperature (deg. C)		-3			Superficial corrosion 20% at abuts
(Expansion Type : ROCKER BEARING)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			6	6	Deck underside-hairline longitudinal crack
Stains (Percent Area)		0			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 5 Spans, Lengths(m): 27.4-37.8-37.8-37.8-27.4, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		8	7	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		8	7	
Nose Plate		7	7	
Paint/Coating		4	4	Nose plates-95% superficial corrosion
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		N	N	Ice
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	6.0			No visible HWM
Drift (Y/N)	No			Minor drift at P2
Slope Protection		7	7	Class 1&2 mix @ W pier and bank.
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
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	2012	INSTALL HAZARD MARKERS.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	46.5/47.3	Est. Repl. Yr	2030	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	30-Aug-2013		Previous Inspection Date	19-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							