

Bridge Inspection							
Bridge File Number	75529 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1966/1966			Lot No.	2		
Bridge or Town Name	COWLEY			Inspector Name	Garry Roberts		
Located Over	CASTLE RIVER, 2.12.35, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	3:04 C1 23.378			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Nov-2011		
Legal Land Location	SW SEC 12 TWP 7 RGE 1 W5M			Data Entry By	Erin Roberts		
Longitude, Latitude	-114:01:18, 49:32:40			Data Entry Date	05-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA26			Review Date	07-Dec-2011		
Clear Roadway/Skew	13.4 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	3,950 / 2010 (A)			Dept. Review Date	10-Jan-2012		
Road Classification	RAU-213.4-120			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 54 GIRDER	Semi	CS2 60 GIRDER	Train	CS3 68 GIRDER	----> 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	Not required							
Other Sign Types	NO PASSING OLD MAN RIVER RES-curve							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	North side 2 lines(under curb)		Gas
Power	North ROW		Municipal
Others	500 mm CSP @ SE		Problem (Y/N) No
Remarks	Conduit under curb @ South fibre optics @ South RW		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Gradual curve at west end. Sag curve through valley
Vertical Alignment		5	5	
Roadway Width (m)	13.400			2 splice bolts missing at SE. Wrong lap at SW and NE Not thriebeam
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	53.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 4 Spans, Lengths(m): 36.6-38.1-38.1-36.6, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(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	Minor scrapes along paving lips.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	Troughs & bwall moved into new position under drip plates. Curb plates 50% corrosion pitted.
Temperature (deg. C)		5			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
100		West			
93		East			
Deck Drainage			7	7	BRIDGE ON A GRADE TO WEST
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Transverse cracks.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			3	3	Missing 1 rail to post bolt at South rail over Pier 2. New rail is in front of panel with missing nuts @ SW-no action. 2 anchor nuts missing southwest.
(Type : VERTICAL BAR)					
Bridge Rail Posts			4	4	GROUT PADS STARTING TO DELAM Missing 1 A/B at retrofit post at NW. 19 post A/B nuts not fully engaged.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	5	
(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			6	6	Minor spalls @ girder ends cracks at sole plates at abuts New bwall troughs @ higher location to stop H2O from getting to ends of girders. 7 lines of continuous girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 7)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 36.6-38.1-38.1-36.6, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	10% superficial corrosion at abuts.
Bearings		5	5	Minor GROUT PAD Spalls @ East abut Rockers at A1, P1, P3, A2
Temperature (deg. C)	5			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
Coating Adequate (Y/N)	Yes			20% corrosion pitted @ abuts.
Functioning (Y/N)	Yes			
Deck Underside		7	7	Hairline map cracking visible on underside.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	Retaining wall and path under Abut. 2.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		4	4	Tar is peeling.
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	Cracks @ bottom 1/3
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	7	
Scour		N	6	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)	10.0			No visible HWM this inspection. Minor drift along banks.
Drift (Y/N)	Yes			
Slope Protection		8	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		8	8	
Adequacy of Opening		7	7	
(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	2012	Install 3/4x2" post to rail bolt- install 2- 1" A/B nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2012	Crack seal ACP on deck and along paving lips					
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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	65.6/65.6	Est. Repl. Yr	2041	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	27-Aug-2013		Previous Inspection Date	19-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							