					Bride	o Cuby	art Jaco	oction—					
Bridge File Nor	nhor	20424	1 Bridge Cul	ort	<u> </u>	e Guive	ert Insp			CUL1			
Bridge File Number 80421 -1 Bridge Culvert						Form Type							
Year Built 1984 Bridge or Town Name CARDSTON						Lot No.			4				
	Name						<u> </u>	tor Name		Jason Rusu			
Located Over			NIMAL, OVE	R SP			Inspector Class		BR CLS A				
Located On		2:04 C1	3.774			Assistant Name							
Water Body Cl.							Assistant Class						
Navigabil. Cl./Year						Inspection Date			16-Oct-2011				
Legal Land Loc	ation	SW SEC	27 TWP 3 F	RGE 25 W4	IM.		Data Entry By		Erin Roberts				
Longitude, Latit	tude	-113:17:	50, 49:14:07				Data Entry Date		19-Nov-2011				
Road Authority		Alberta 7	Transportatio	n (AIT)	Reviewer Name			Garry Roberts					
Contract Main. Area CMA25					Review Date				09-Nov-2011				
Clear Roadway	/Skew	11 /						Dept. Reviewer Name		Tim Davies			
AADT/Year 2,460 / 2			2010 (A)				Dept. Review Date		te	21-Nov-2011			
Road Classification RAU-2		RAU-21	1.8-110				Follow	-Up By			<u> </u>		
Detour Length	(km)	6											
Bridge Culvert		ation											
Number of Culv			1										
Pipe #	Barrel		Span			ia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN			2200		MP		30		125X26		ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
					Ро	sting l	nformat	ion					
Required Vert.													
Posted Vertical		nce (Y/N))										
Posted: Lane NB On Bridge (m) In Adv					/ance (Y/N)	L	ane SB	0	n Bridge (m)	In Advan	ce (Y/N)	
Remarks	Not Re	equired											
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone West ditch					Gas								
Power 1 wire East						Munici	pal						
Others	Fibre	Optic line	West ditch				Proble	m (Y/N)	No				
Remarks													
				Α	pproac	ch Roa	d / Emb	ankment					
					Last	Now	Explai	Explanation of Condition					
Horizontal Aligr	nment				8	8							
Vertical Alignm					7	7							
Roadway Width (m)		11.000											
Embankment				7	7								
Sideslope (:1)		4.0											
(Height of Co	ver(m):	1.1)											
Guardrail (Y/N)		Yes				Guardrail 4.5m down embankment both sides							
, ,			_										
Approach Roa	id / Emb	oankmen	nt General Ra	ating	7	7							
						Upstre	am Enc						
Culvert Compo	onent				Last	Now		nation of C	ondi	tion			
Direction					W		Wests	side.					
End Treatment Others, None)	(Concre	ete, Steel	I, STEEL										
Headwall					Х	Х							
Collar				Х	X								

80421 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	6	Bevel cut from barrel section in
Heaving (mm)	0			field. Cut incorrectly.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Outroom Common and				Ivert Barrel
Culvert Component	tion Code: MAIN Sno			Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm	<u>):</u>	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	16-Oct-2011			
Special Features		1	1	
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2124			
Measured At Ring No.	4			
Sag (mm)	76			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	2276			
Measured At Ring No.	4			
Deflection (mm)	76			
Percent Deflection	3			
Floor		N	N	100mm deep dirt on floor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	5	1st SEAM FROM U/S-ROOF DAMAGED-MINOR.
Separation (mm)	60			65mm horizontal circ seam separation. SOIL INFILTRATION @ 3 seams - minor
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2200, Type: MP)
Coating		5	5	MINOR, SUPERFICIAL RUSTING @ HAUNCH.
Corrosion By Soil (Y/N)	Yes			SUPERFICIAL RUST ON TOP OF CROWN AREA ON West END and East.
Corrosion By Water (Y/N)	Yes			and Edot
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)			_	
Waterway Adequacy	I	X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		EAST SIDE
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		6	6	NOTCHES CUT OUT OF BEVEL, same as u/s end.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	7	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
		S	Structur	re Usage
			Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	FENCES UP TO BARREL IN DISREPAIR.
Roadway Surface		6	6	1200mm CSP 5m North @ East end
(Type:)				
Icing (Y/N)	No			
Traffic Safety Features		Х	Х	
Туре				

Structure Usage						
		Last	Now	Explanation of Condition		
Lighting		X	X			
Barrel Leakage (Y/N) No						
Drainage		6	6			
Structure In Use (Y/N)	No					
Grade Separation General Rating		6	6			

80421 -1 Bridge Culvert

		Maintenand	e Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		<u> </u>	·		Ŭ		
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	à						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO	OFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/No.(%)	low) 77.8/7	7.8 Sufficiency Rating (L	ast/Now) 79.0/79.0	Est. Repl. Yr 20	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
			Previous Assistant's Name				
Previous Inspector's Name	Garry Roberts		Frevious Assistant's Name				
Previous Inspector's Name Next Inspection Date	Garry Roberts 16-Jul-2013		Previous Inspection Date	21-Jan-2010			
				21-Jan-2010			