					Brida	e Culve	ert Inspe	ection				
Bridge File Nu	mber	73672 -1	Bridge Culver		Diffeg	o ourve	Form T			CULM		
Year Built 1949						Lot No.		1				
Bridge or Town Name TWIN BUTTE							Inspector Name		Jason Rusu			
Located Over							<u> </u>	nspector Class BR CLS A				
		2.12.21.	21.5.7.5, WATERCRS-ST				Assistant Name					
Located On		6:04 C1	27 162				Assista	Assistant Class				
Water Body Cl./Year							Inspection Date		30-Oct-2011			
Navigabil. Cl./Year							Data Entry By		Erin Roberts			
						Data Entry Date		29-Nov-2011				
		-113:53:	113.53.55 10.20.11					Reviewer Name Garry Roberts				
Road Authority Alberta Tr		Fransportation (AIT)				Review Date		12-Nov-2011				
Contract Main. Area CMA26									Tim Davies			
Clear Roadway	y/Skew	10.4 /					Dept. Review Date		01-Dec-2011			
AADT/Year		1,170 / 2	2010 (A)				Follow-					
Road Classific		RAU-21	1.8-110									
Detour Length		10										
Bridge Culver												
Number of Cul			2			I_						
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN			1200		MP		20.7			111101111000	ROUND
2	MAIN			1200		MP		20.7				ROUND
Special Featur										1		11100112
Special Featur		ment										
					Uti	ilities (L	ocated	at)				
Utility Attachm	ents											
Telephone	East a	and West					Gas					
Power					Municip							
Others							Probler	m (Y/N)	10			
Remarks	Bridge	e file 7367	72 loc. 85m of									
								ankment	المورم	ti a m		
Horizontal Alig	nmont				Last 6	Now 6		ation of C				
Vertical Alignm					6	6		North and S				
Roadway Widt			10.000		0							
Roadway Widt	11 (111)		10.000									
Embankment					6	6						
Sideslope (_	_:1)		3.0									
(Height of Co	over(m)	: 2.3)										
Guardrail (Y/N))		No	7								
A	1 /	L •	1.0		•							
Approach Roa	ad / Emi	pankmen	t General Rati	ing	6	6						
						Upstre	am End					
Culvert Comp	onent				Last			ation of C	ondi	tion		
(Pipe # : 1, Sp	an Typ	e: Primar	y Span)									
Direction					W		West e	nd, South p	oipe			
End Treatment Others, None)	t (Concr	ete, Steel	, STEEL									
Headwall					Х	Х						
Collar					Х	Х						
Wingwalls					Х	Х						
(Shape:)												

73672 -1 Bridge Culvert

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dge Cu	livert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	30-Oct-2011			South pipe
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		2	2	Due to deformation
Measured Rise (mm)	1000			
Measured At Ring No.	6			
Sag (mm)	200			
Percent Sag	17			
Sidewall		3	3	Due to deformation
Measured Span (mm)	1345			No change
Measured At Ring No.	6			
Deflection (mm)	145			
Percent Deflection	12			
Floor		N	5	300mm deep water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	4	R5
Separation (mm)	70			Soil infiltration at ring 5
Longitudinal Seams		X	X	Riveted pipe
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)				
Coating		5	5	Ring 3 at sidewall
Corrosion By Soil (Y/N)	No			
Corresion By Water (V/N)	Voc			

		Brid	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	2	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)	1		
Direction		E		East, South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)		T		
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	5	
Culvert Component				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	10/		West Newthering
End Treatment (Concrete, Steel,	STEEL	W		West, North pipe
Others, None) Headwall		Х	Х	
Collar		Х	X	
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		X	X	

73672 -1 Bridge Culvert

			Upstre	eam End			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe #: 2, Span Type: Second	lary Span)						
Bevel End		5	5				
Heaving (mm)	100						
Invert Above/Below Stream Bed	ABOVE						
Above/Below (mm) 200							
Scour Protection		6	6				
(Type : RIP RAP)							
(Avg. Rock Size(mm) : 300)							
Scour/Erosion		6	6				
Beavers (Y/N)	No						
Upstream End General Rating		5	5				
		Bric	dge Cu	ilvert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)			
Barrel Last Accessible Date	30-Oct-2011			North Barrel			
Special Features							
Special Feature							
(Type:)							
Special Feature							
(Type:)							
Roof		4	4	East end rise 1110			
Measured Rise (mm)	1110						
Measured At Ring No.	4						
Sag (mm) 90							
Percent Sag	8						
Sidewall	•	3	3	Construction damage ring 2 upper South sidewall with 250mm deep			
Measured Span (mm)	1330			x 150mm diameter void loss of fill			
Measured At Ring No.	5			1055 01 1111			
Deflection (mm)	130						
Percent Deflection	11						
Floor	•	N	5				
Bulge (mm)							
Measured At Ring No.							
Abrasion (Y/N)	No						
Circumferential Seams		4	4	Loss of fill with 150mm void behind barrel			
Separation (mm)	55			R3			
Longitudinal Seams		Х	Х				
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)							
Coating		5	5				
Corrosion By Soil (Y/N)	No			1			
Corrosion By Water (Y/N)	Yes						
Camber POS/ZERO/NEG	ZERO						

		Brio	dge Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		4	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
			ownetr	ream End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Lasi	INOW	Explanation of Condition
Direction		E		East end, North barrel
End Treatment (Concrete, Steel,	STEEL			East end, North barrer
Others, None)	SIEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0		1	
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
			truotuu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)	<u> </u>	Last	INOW	Explanation of condition
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				none visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :				
Channel General Rating		7	7	

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance	Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	i						
INSTALL STRUTS		Install struts in South pipe- or con replacing pipes instead of repairs	sider				
INSTALL CONCRETE COLLAR/CUTO	OFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 22.2/22	2.2 Sufficiency Rating (Las (%)	st/Now) 36.6/42.8	Est. Repl. Yr 2015	Maint. Re	qd. (Y/N)	Yes
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 Inspector's Name	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	30-Jul-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							