					Brido	e Culve	ert Inspe	ection					
Bridge File Nu	mber	73241 -1	Bridge Culve	ert			Form T		CUL1				
Year Built		1964					Lot No.	•	1				
Bridge or Town	n Name	CARSTA	AIRS					or Name	Owen Salava	· ·			
Located Over			AIRS CREEK,	3.33.21, \	NATE	RCRS-		Inspector Class BR CLS A					
		ST						nt Name					
Located On		580:02 C	21 26.193				Assista	nt Class					
Water Body Cl							Inspect	Inspection Date 27-Oct-2011					
Navigabil. Cl./								Data Entry By Marcia Chavez					
Legal Land Lo			6 TWP 30 RC	SE 1 W5M				Data Entry Date 29-Nov-2011					
Longitude, Lat			30, 51:31:58					er Name	John O'Brien				
Road Authority	/	Alberta 7	Fransportation	(AIT)			Review	Date	14-Nov-2011				
Contract Main.		CMA29					Dept. R	teviewer Nam					
Clear Roadwa	y/Skew	9.1 /						eview Date	25-Jan-2012				
AADT/Year		1,420 / 2	2010 (A)				Follow-						
Road Classific	ation	RLU-209	9-110					-1 ,					
Detour Length		6											
Bridge Culver													
Number of Cul	1	1											
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	 1738	1920		SPE		63.4	152X51	3.0	ELLIPSE		
			1730	1320		OI L		00.4	102/01	3.0	LLLII OL		
Special Features Special Features Comment													
Opeciai i eatui	63 00111	inent											
					Ut	ilities (L	Located	at)					
Utility Attachm	ents												
Telephone	South	r/w.					Gas						
Power	3 wire	s 10m No	orth of easeme	ent.			Municip	oal					
Others							Probler	n (Y/N) No					
Remarks													
				A				nkment					
					Last	Now	Explan	ation of Con	dition				
Horizontal Alig	nment				9	9	No pas	sing.					
Vertical Alignm	nent				7	7							
Roadway Widt	th (m)		9.000										
Cmbankmant					-		20m los	aa y Om daan	x 8m wide ditch	2221 @ CM	Oronord in		
Embankment Sideslope (_	.1\		2.0		5	5	20111101	ig x ziii deep	x on wide ditch	scour @ Svv.	Jiasseu III.		
	· ·	. 11\	2.0				-						
(Height of Co		. 11)	Vos										
Guardrail (Y/N)		Yes										
Approach Ro	ad / Eml	bankmen	t General Ra	ting	7	7							
							am End						
Culvert Comp	onent				Last	Now	Explan	ation of Con	dition				
Direction	. (0	-1- 0:	OTES		N								
End Treatment Others, None)	t (Concr	ete, Steel	, SIEEL										
Headwall					Х	Х							
Collar					Х	X							
Wingwalls					X	X							
(Shape :)												
Cutoff Wall					Х	X							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Explanation of Condition
Heaving (mm)	0	/		
Invert Above/Below Stream Bed				
Above/Below (mm)	0	7		Mellow hook as accord house!
Scour Protection		7	7	Willow bushes around bevel.
(Type: NATURAL)				
(Avg. Rock Size(mm):)			Ι _	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			· ·
Barrel Last Accessible Date	27-Oct-2011	1	,	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		I		
Roof		5	5	
Measured Rise (mm)	1836	3	<u> </u>	
Measured At Ring No.	7			
Sag (mm)	84			
Percent Sag	4		1	
Sidewall	T	N	3	Cracked seams (see longit. seams).
Measured Span (mm)	1800			
Measured At Ring No.	7			_
Deflection (mm)	62			
Percent Deflection	3		1	
Floor	,	N	N	600mm avg depth of water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		N	3	
Total No. of Cracked Rings	4			1
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	70			70mm remaining steel @ R17 E lower sidewall seam. Crack @ E lower longit. sidewall seam @ R11,13,15,17.
Proper Lap (Y/N)	No			Orack & E lower longit. Sidewall sealif & KT1,13,13,17.
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Rusting at lower seams, no perforations.
Corrosion By Soil (Y/N)	Yes	4		Side and floor plates rusting.
Corrosion By Water (Y/N)	Yes			•
Camber POS/ZERO/NEG	ZERO			
Odifiber 1 OO/ZEINO/NEG	ZLINO			
Ponding (Y/N)	Yes			Gradual increasing depth towards D/S.

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1738	, Rise (mm): 1920, Type: SPE)
Fish Passage Adequacy		Х	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		4	4	Evidence of inadequate pipe size due to vertical cut bank @ D/S
Icing (Y/N)	No			embankment - photo. Silt gets deeper towards D/S.
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	ı	S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	5	Degraded by cattle.
(Type: NATURAL)				
(Avg. Rock Size(mm):)			T _	
Scour/Erosion		6	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		1	1	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	Vertical cut banks.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			D/S.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)	_	_	
Channel General Rating		5	5	

			M	Maintenance Recommendations	ations					
Inspector Recommendations		Year	Inspector Comments		Department Comments	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	7									
INSTALL CONCRETE/STEEL LINING	ING									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF	UTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		33.3/33.3		Sufficiency Rating (Last/Now) (%)	42.7/42.6	Est. Repl. Yr	2020	Maint. Reqd. (Y/N)		o N
Special No growth of cra Comments for Next Inspection	acks since 3()Oct200	No growth of cracks since 30Oct2002; no action at this time.	ψ	Department Comments					
Maintenance Reviewed By					Date		Est	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam	am.		Previous	Previous Assistant's Name					
Next Inspection Date	27-Jan-2015	2015		Previous	Previous Inspection Date	24-Sep-2009				
Inspection Cycle (Default) (months)	39									
Comment										

				Maintenance Red	commend	lations						
Inspector Recommendation	ons		Year	Inspector Comments		Department C	Commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP	RAP											
REMOVE DRIFT ACCUM	IULATION											
INSTALL CONCRETE/ST	EEL LINING	}										
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF		OFF										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rat	ting (Last/N	low)	33.3/33.	3 Sufficiency Rating (Last/I	Now)	12.7/42.6	Est	t. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection No growth of cracks since 30Oct2002; no action at this time.					Department Comments	Currer	ntly programm	ed in PM	A for replacem	ent in 2017.	DA	
Maintenance Reviewed B	v	Darron	n Ahlstedt	t		Date	29-Oct	t-2012		Estimated Tota	ıl O	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Nam	е	Dave L	_am		Previous .	us Assistant's Name						
Next Inspection Date		27-Jan	n-2015		Previous	ous Inspection Date 24-Sep-2009						
Inspection Cycle (Default)	(months)	39										
Comment												