					Brido	e Culve	ert Inspe	ection						
Bridge File Numb	er 732	29 -1 E	Bridge Culve	rt	Dirag	o carre	Form T			CUL1				
Year Built	196		go •	<u> </u>			Lot No.			1				
Bridge or Town N		NFIELD)			Inspector Name				Owen Salava				
Located Over	TRI	BUTA	RY TO POPL	AR CRE	EK, 6.					BR CLS A				
	WA	TERC	RS-ST					nt Name						
Located On	13:0	04 C1 2	27.783			Assistant Class								
Water Body Cl./Ye	ear						Inspection Date			25-Jun-2012				
Navigabil. Cl./Yea	ar						Data Entry By			Marcia Chave	Z			
Legal Land Locati	ion SE	SEC 1	3 TWP 46 R	GE 5 W5	M		Data Entry Date			08-Aug-2012				
Longitude, Latitud	de -114	4:35:36	6, 52:57:36					er Name		John O'Brien				
Road Authority	Albe	erta Tra	ansportation	(AIT)			Review			05-Jul-2012				
Contract Main. Ar	rea CM	A17					Dept. F	Reviewer N	lame	Andrew Smikle	 es			
Clear Roadway/S	8kew 8.8	/ 0 deg	j .					Review Dat		13-Aug-2012				
AADT/Year	1,00	00 / 20	11 (A)				Follow-		-					
Road Classification	on RAI	U-209-	110					1 - 7						
Detour Length (km) 6														
Bridge Culvert In														
Number of Culver		1												
Pipe # Ba	arrel	Span Rise (or		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 M	IAIN	1724 1901			SP		28		152X51		ELLIPSE			
Special Features					1027.01									
Special Features Comment VE 5%														
·														
					Ut	ilities (L	ocated	at)						
Utility Attachment							1							
Telephone South r/w.						Gas								
Power 2 wires 23 m North r/w.					Municipal Problem (Y/N) No									
Others							Probler	n (Y/N)	No					
Remarks														
				A				nkment						
	4							ation of C						
Horizontal Alignment			7	7	Approaches both ends.									
Vertical Alignment Roadway Width (m) 8.800			7	7										
Roadway Width (i	(III)		0.000											
Embankment					4	4	Only 2:	1 over pip	e, Soi	uth end and em	bankment is s	loughing.		
Sideslope (:1) 2.0					Erośion / void at SW corner - photo.									
(Height of Cover(m) : 3.5)														
Guardrail (Y/N) Yes														
Approach Road	/ Embank	ment	General Rat	ing	4	7								
						Hactro	om End							
	ent				Last	Now	am End	ation of C	ond:	ion				
Culvert Compon	CIIL				S	INOM	LAPIAN	ation of C	onal	IVII				
Culvert Compon					J									
Direction	Concrete	Steel	NONE				I .							
Direction End Treatment (COthers, None)	Concrete, S	Steel,	NONE											
Direction End Treatment (C	Concrete, S	Steel,	NONE		X	X								
Direction End Treatment (COthers, None)	Concrete, S	Steel,	NONE		X	X								
Direction End Treatment (COthers, None) Headwall	Concrete, S	Steel,	NONE											
Direction End Treatment (COthers, None) Headwall Collar	Concrete, S	Steel,	NONE		X	X								

73229 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Bevel torn off - photo.
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			Water undermining bevel end. Rock too big, not uniform.
Above/Below (mm)	300			Trace and mining pover one. Trook too big, not aniiomi.
Scour Protection	300	4	4	1400 mm dia x 300 mm rock at sides and top.
(Type : RIP RAP)				1400 mm dia x 300 mm fock at sides and top.
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		4	4	Eroding behind rocks creating large void - photos.
SCOUI/E10SIOI1		4	4	Bank sloughing around inlet (photo).
Beavers (Y/N)	No			
			1	
Upstream End General Rating		4	4	
		Dei	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			· -
Barrel Last Accessible Date		Span (IIIII	.,. 1724	, rise (ilili). 1901, Type. Or)
Dairei Lasi Accessible Date	25-Jun-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	
	1702	3	5	
Measured At Dira No	1792			
Measured At Ring No.	3			
Sag (mm)	109			5.7%
Percent Sag	6		Ι.	
Sidewall	I	3	3	Tear in W side 8m from South end @ 9 o'clock plate - photo. Hole in E side R2 - photo.
Measured Span (mm)	1808			- Pristor
Measured At Ring No.	3			4.8%
Deflection (mm)	84			-
Percent Deflection	5		_	
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	3	Missing 3 nuts R4/5 seam.
Separation (mm)	0			Flow through floor at R8/9 circular seam.
Longitudinal Seams		3	3	Lower seam bolts corroding - photo.
Total No. of Cracked Rings	0			Missing 5 nuts R4 at 10o'clock.
Total No. of Rings with Two Cracked Seams				Missing 9 nuts R5 at 11 o'clock (photo).
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	3	Some pitting.
Corrosion By Soil (Y/N)	Yes	7		Heavy corrosion in bottom 1/3 - photo.
Corrosion By Water (Y/N)	Yes			Floor perforations R2,6,7,9,10 (photo).
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Brio	Bridge Culvert Barrel ast Now Explanation of Condition							
			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SP)						
Fish Passage Adequacy		4	4	Outlet flows through perforations in floor at outlet.						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		6	6	(Ice to within 0.3m of roof. 12Dec2005).						
Icing (Y/N)	Yes									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			3							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		N								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall			X							
Collar			Х							
Wingwalls			Х							
(Shape:)										
Cutoff Wall			Х							
Bevel End		4	4	Bevel's sides pushing inward.						
Heaving (mm) 150				Large perforations in floor (photo). Perched 0.2m.						
Invert Above/Below Stream Bed ABOVE				i standa sizmi						
Above/Below (mm) 200										
Scour Protection			4							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 500)										
Scour/Erosion			4	Scour hole 1.3 m deep x 8.0 m x 20 m long. Scour alongside & under bevel.						
Beavers (Y/N) No										
Downstream End General Rating			4							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			4	Exits culvert and turns 90 deb 20m d/s.						
Bank Stability			5	Rock armouring D/S bank appears holding and adequate.						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	·									
(Fish Compensation Measure 2 :	NONE)		1							
Channel General Rating		4	4							

Alberta Transportation

		Maintenance R	Maintenance Recommendations	ns					
Inspector Recommendations	Year	Inspector Comments	De	Department Comments	nents	•	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF									
REPAIR SEAMS									
OTHER ACTION	2015	Replace.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now)	33.3/33.3	3.3 Sufficiency Rating (Last/Now)		29.5/38.9	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special No actio for circ. seams or longit. seams. Comments for Next Inspection	s or longit. s	eams.	Co	Department Comments					
Maintenance Reviewed By			Date	te		<u>ű</u>	Estimated Total	0	
Proposed Long-Term Strategy 20	05.04.09 Re	2005.04.09 Replace in 2010 on Spot program. Could	program. Could defer if required. Monitor normal BIM	d. Monitor norm	al BIM.				
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name Ov	Owen Salava		Previous Assistant's Name	stant's Name					
Next Inspection Date 25	25-Mar-2014		Previous Inspection Date	ection Date	24-Aug-2010				
Inspection Cycle (Default) (months) 21									
Comment									

					Maintenance I	Recommen	dations						
Inspector Recom	mendations		Year	Inspecto	or Comments		Department (Comme	ents		Target Year	Est. Cost	Cat #
SHOTCRETE RI	EPAIRS												
PLACE ADDITIO	NAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONC	RETE/STEEL LININ	G											
INSTALL STRUT	TS												
INSTALL CONC	RETE COLLAR/CUT	ΓOFF											
REPAIR SEAMS													
OTHER ACTION	<u> </u>		2015	Replace).		Programmed				2014		
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Cond (%)	Now)	33.3/33.	3	Sufficiency Rating (La (%)	st/Now)	29.5/38.9	E	st. Repl. Yr	2015	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection No actio for circ. seams or longit. seams.						Department Comments	Repla	Replacement programmed for 2014					
Maintenance Reviewed By Andrew Smikles							Date	03-De	ec-2012		Estimated Tota	1 0	
Proposed Long-Term Strategy 2005.0			14.09 Rep	place in 2	2010 on Spot program. Co	ould defer if	required. Monit	or norm	nal BIM.				
On 3-Year Progr	am (Y/N)												
Proposed Action													
Previous Inspect	or's Name	Owen	Salava			Previous	Assistant's Name						
Next Inspection	Date	25-Mai	r-2014			Previous	Inspection Dat	e	24-Aug-2010)			
Inspection Cycle	(Default) (months)	21											

Alberta Transportation	Bridge Inspection & Maintenance System (Web 2005)
7 110 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2agoopoono oao. o joto (1.00 2000)

73229 -1 Bridge Culvert

- 10	Comment	
- 11	JUHHHEHL	