					Brido	e Culve	ert Inspe	ction						
Bridge File Num	ber	13703 -	1 Bridge Culve		7110.		Form Ty			CULM				
Year Built		1977		<u> </u>			Lot No.			1				
Bridge or Town	Name	GLEICH	HEN				Inspecto	or Name		Jon Davies				
Located Over			FOOT CREEK,	2.13.14, \	WATE	RCRS-	Inspector Class			BR CLS B				
		ST					Assistant Name							
Located On		1:14 R1	13.888;1:14 L	1 13.922			Assistant Class							
Water Body Cl./							Inspection Date			16-Feb-2012				
Navigabil. Cl./Ye		0)4/05	0 7 7 1/2 0 4 2 0	NE 00 11/4			Data En	try By		Erin Roberts				
Legal Land Loca			C 7 TWP 24 RC	5E 22 W4	M		Data Entry Date			18-Mar-2012				
Longitude, Latitu	ıde		:28, 51:01:37	/ A I T \			Reviewer Name			Garry Roberts				
Road Authority Alberta Transportation (AIT)				(AII)			Review Date		27-Feb-2012					
Clear Readway/Skeyy 24.9 / 10 deg (LHE)						Dept. Reviewer Name			Tim Davies					
Clear Roadway/Skew 24.8 / -10 deg. (LHF) AADT/Year 5,940 / 2010 (A)						Dept. Review Date		22-Mar-2012						
Road Classificat	lion		12.4-120				Follow-U	Јр Ву						
Detour Length (I		1	12.4-120				_							
Bridge Culvert		ation								<u> </u>				
Number of Culve		ation	2											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		-	3350		SP		76.8		152X51	4.0	ROUND		
	MAIN		-	2200		MP		69.8		125X26	ROUND			
Special Features						11111	I			,	2.8	11100111		
Special Features		ment												
-														
					Ut	ilities (L	ocated a	at)						
Utility Attachme	T .						1							
Telephone	WEST	DITCH					Gas							
Power						Municipa								
Others Fibre optics @ East RW						Problem	n (Y/N)	No						
Remarks				Δ.,		oh Door	d / Emba	nlemont.						
				Aļ	Last	Now		/ Embankment Explanation of Condition						
Horizontal Align	ment				7	7				0 m TO THE NO	ORTH.			
Vertical Alignme					6	6	IN SAG		WITH	LIMITED SIGH				
Roadway Width	(m)		24.800				DIOTAIN	IOL TO	30011	1.				
Fach calmand					7	7	F.4 \\\	Ett Wast side						
Embankment	.4\		4.0		7	7	5:1 West side.							
Sideslope (:		4.0\	4.0											
(Height of Cov	rer(m):	1.2)	Yes											
Guardrail (Y/N)			res											
Approach Road	d / Eml	oankme	nt General Rat	ing	6	6								
							am End							
Culvert Compo					Last	Now	Explana	ation of	Condi	tion				
(Pipe # : 1, Spa	n Type	e: Prima	ry Span)											
Direction					W		WEST E							
End Treatment (Others, None)	(Concre	ete, Stee	el, CONCRETE				NORTH BARREL.							
Headwall					5	6	Wide cra	Wide cracks lower South side						
Collar					5	5	BREAKING UP @ TOE @ South settlement up to 500mm.							
Wingwalls					Х	Х								
(Shape:)							1 of 6							

13703 -1 Bridge Culvert

			Unetro	am End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Snan)	Last	INOW	Explanation of condition
Cutoff Wall	, opan,	N	N	
Cuton Trun			.,	
Bevel End		7	7	Fenceline crosses over bevel end
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	ingrown
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Dei	des Cu	heart Barral
Culvert Component			Now	Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 3350, Type: SP)
Barrel Last Accessible Date	16-Feb-2012		.,.	THIS STRUCTURE TAKES ALL OF PRESENT FLOW. NORTH
Barror East / 1000001510 Bato	101002012			PIPE
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	6	Minor distortion @ new to old splice @ Ring 10 to 11.
Measured Rise (mm)				Est
Measured At Ring No.				
Sag (mm)	160			
Percent Sag	5			
Sidewall		N	5	Inward. Tear & patch & ring #3 & #10.
Measured Span (mm)	3327			
Measured At Ring No.	12			
Deflection (mm)	23			
Percent Deflection	1			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)	10			
Longitudinal Seams		N	5	West section is staggered 1N.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	6	SUPERFICIAL RUST BELOW WATERLINE.
Corrosion By Soil (Y/N)	Yes			Some alkali & corrosion @ bolts.
Corrosion By Water (Y/N)	Yes			

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	1):	, Rise (mm): 3350, Type: SP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
	1			eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1		
Direction	I	E		EAST END OF NORTH PIPE.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		X	X	
			1	
Cutoff Wall		X	X	
Bevel End	1	6	5	HAS PUSHED IN FROM BOTH SIDES 200 m
	1100		T _	
(Shape :) Cutoff Wall		5	5	20mx20m scour hole-lined with large rocks
			T -	
Scour/Erosion	I	5	5	
Beavers (Y/N)	No		_	
Downstream End General Ratio	ng	6	5	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		WEST END OF SOUTH PIPE.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	

13703 -1 Bridge Culvert

			Unstre	eam End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)		1	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	400			
Scour Protection		7	7	ROCK IS LARGELY SHALE & FLAT ROCK.
(Type : RIP RAP)				Lots-ingrown
(Avg. Rock Size(mm) : 600)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r		, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	16-Feb-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		3	3	(Measured approx 1/3 distance from U/S
Measured Rise (mm)	1968			No change since last inspection) 19- Aug-2008
Measured At Ring No.				
Sag (mm)	232			
Percent Sag	11			
Sidewall		3	3	
Measured Span (mm)	2441			Measured approx 1/3 distance from u/s
Measured At Ring No.	14			
Deflection (mm)	241			
Percent Deflection	11			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)	80			1
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	5	Corrosion at waterline with minor pitting.
Corrosion By Soil (Y/N)	No]
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2200, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		111111	, — · · · · · · · · · · · · · · · · · ·
Direction		Е		EAST END OF SOUTH PIPE.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)			_	
Cutoff Wall		Х	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		5	5	20mx20m scour lined with large rocks
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		G	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)			111011	
Alignment		7	7	
Bank Stability		7	7	Bank is stable
HWM (m below Top of Culvert)				Not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

				Mainte	enance Recomn	nenda	tions						
Inspector Recommendations	Y	ear	Inspector Co				Department Com	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							•						
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION			Consider level 2 inspection at a low water ice free time. Then revision to rating and estimate year of replacement could be possible.			ice nated							
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/l (%)	Now) 3	3.3/33.3	3 Su (%	ifficiency Rati)	ing (Last/Now)	54	4.0/54.0	Est. Repl	. Yr	2016	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Stimated Tota	ıl O	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Jason Ru	JSU			Prev	ious A	ssistant's Name						
Next Inspection Date	16-Nov-2	2013			ious In	us Inspection Date 08-Aug-2010							
Inspection Cycle (Default) (months)	21				1			, , , , , ,	3 = 3				
Comment													