					Bridg	e Culve	ert Insp			0			
Bridge File Nur	mber		1 Bridge Culve	rt			Form Type		CULM				
Year Built		1985					Lot No			4			
Bridge or Town	Name	BERRYI					Inspector Name		!	Kris Bosters			
Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC 24 TWP 49 F Longitude, Latitude -114:45:27, 53:14:29 Road Authority Alberta Transportation Contract Main. Area CMA11 Clear Roadway/Skew 9.5 / 30 deg. (RHF) AADT/Year 940 / 2011 (A) Road Classification RCU-209-110 Detour Length (km) 3 Bridge Culvert Information Number of Culverts 3 Pipe # Barrel Span 1 MAIN 1865 2 MAIN 1900 MAIN 1900			(LAKE CF S-ST	REEK,			tor Class		BR CLS A				
Located On								ant Name		Brian Cote			
	./Year							ant Class		25.0 . 22.42			
•							Inspection Date			25-Oct-2012			
		SW SEC	C 24 TWP 49 R	GE 6 W5	М			ntry By		Theresa Lacusta			
		-114:45:	27. 53:14:29					ntry Date		07-Nov-2012			
				(AIT)				ver Name	!	Eric Carcoux			
				,			Reviev		NI	04-Nov-2012			
		9.5 / 30	deg. (RHF)							Brent Herrick			
AADT/Year							Review Da	ate	13-Nov-2012				
					Follow	-Up By							
Bridge Culvert Information													
			3										
Pipe #	Barrel	Span Rise (or		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1865	1260	FP			37		75X25	3.5	ARCH	
2	MAIN		1900	1170		FP		37		68X13	2.8	ARCH	
3	MAIN		1900	1170		FP		37		68X13	2.8	ARCH	
Special Features													
Special Feature	es Com	ment			Uti	lities (L	_ocated	at)					
Utility Attachme	ents												
Telephone	west i	r/w.					Gas		Pipeli	ne crossing 50ı	m N.		
Power	3 wire	e. r/w &	to N.				Munici	pal					
Others							Problem (Y/N) No						
Remarks													
				A				ankment					
11					Last	Now		Explanation of Condition					
Horizontal Align Vertical Alignm					7	7	Field & residential accesses N.W. Passing both directions. Asphalt patch over pipes.						
Roadway Widtl	h (m)		9.500				riopria	Aspiriali palcir over pipes.					
Embankment					8	8							
Sideslope (:1) 3.0													
Sideslope (		: )	3.0										
	ver(m)	:)	3.0 No										
(Height of Co	over(m)		No	ing	7	7							
(Height of Co Guardrail (Y/N)	over(m)		No	ing			am Enc						
(Height of Co Guardrail (Y/N)	over(m)		No	ing				nation of	Condi	tion			
(Height of Co Guardrail (Y/N) Approach Roa	over(m)  ad / Eml	bankmer	No nt General Rat	ing		Upstre			Condi	tion			
(Height of Co Guardrail (Y/N) Approach Roa Culvert Comp	over(m)  ad / Eml	bankmer	No nt General Rat	ing		Upstre	<b>Explar</b> South	nation of					
(Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp	over(m)  ad / Eml  onent  an Type	bankmen	No  nt General Rat  dary Span)	ing	Last	Upstre	<b>Explar</b> South	nation of					
(Height of Co Guardrail (Y/N) Approach Roa Culvert Comp (Pipe # : 1, Sp Direction End Treatment	over(m)  ad / Eml  onent  an Type	bankmen	No  nt General Rat  dary Span)	ing	Last	Upstre	<b>Explar</b> South	nation of					

76778 -1 Bridge Culvert

			Unstre	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Span Type: Second	lary Span)			
Wingwalls	,	Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
-	cation Code: MAIN. S			865, Rise (mm): 1260, Type: FP)
Barrel Last Accessible Date	25-Oct-2012	pan (i	,	
Barrer East Accessible Bate	20 000 2012			
Special Features			_	
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	CL.
Measured Rise (mm)	1250			
Measured At Ring No.	2			
Sag (mm)	10			
Percent Sag	1			
Sidewall		7	7	CL.
Measured Span (mm)	1890			
Measured At Ring No.	2			
Deflection (mm)	25			
Percent Deflection	1			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	30			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two	6			
Cracked Seams  Min. Remaining Steel				
Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	dge Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm): 18	365, Rise (mm): 1260, Type: FP)
Coating		6	6	Minor superficial corrosion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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		N	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Second	ary Span)			
Direction		Е		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			600M water level to crown.
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Primary	Span)			
Direction	•	W		Middle pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	/ Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
David Fad		0		Madauata applica applica
Bevel End Heaving (mm)	200	6	6	Moderate scaling on floor.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm) Scour Protection	200	7	7	
			1	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa			
Barrel Last Accessible Date	25-Oct-2012	\	<u>,. 1000</u>	
Barror East / toocoolbio Bato	20 000 2012			
Special Features			T	
Special Feature				
(Type:)				
Special Feature				
(Type:)			1	
Roof		N	5	
Measured Rise (mm)	1045			
Measured At Ring No.	2			
Sag (mm)	50			
Percent Sag	1			
Sidewall		N	5	
Measured Span (mm)	1950			
Measured At Ring No.	2			
Deflection (mm)	60			
Percent Deflection	3			
Floor		N	4	CL
Bulge (mm)	75			
Measured At Ring No.	2			
Abrasion (Y/N)	No			
Circumferential Seams		N	4	Heaving is pulling seams at u/s end and d/s end appart and
Separation (mm)	120			deflecting barrelphoto
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)				
Longitudina olagger (1/14)	4			

		Brid	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 1900	, Rise (mm): 1170, Type: FP)
Coating		5	5	Superficial rust/scaling on floor &
Corrosion By Soil (Y/N)	No			lower sidewall.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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		4	4	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Primary	y Span)			
Direction		E		Middle pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			600mm water level to crown
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		W		North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	1	Х	Х	
Collar		Х	Х	

			Upstre	am End
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe #: 3, Span Type: Second	ary Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		D.:	l O	lund David
Culvert Component				Explanation of Condition
•	eation Code: MAIN S			900, Rise (mm): 1170, Type: FP)
	Cation Code. MAIN, 3	pan (i	11111 <i>)</i> . 13	
Barrel Last Accessible Date				Viewed from end, ~300mm water in barrel neat center.
Special Features		1	1	
Special Feature				
(Type:)		1	1	
Special Feature				
(Type:)				
Roof		4	4	Damaged at separated u/s seam caused by debris.
Measured Rise (mm)				Barrel deformation visible from ends.
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		5	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	4	Heaving of bevels causing seams to pull appart and deform barrel.
Separation (mm)				
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)				
Longitudina olagger (1/14)	4			

		Brid	dae Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
-	cation Code: MAIN, S			900, Rise (mm): 1170, Type: FP)
Coating		5	5	Superficial rust lower 1/2.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	larv Span)		1.1011	
Direction	,	Е		North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL	_		, rotal p.pe
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		S	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	West channel runs along ditch for some distance.
Bank Stability		7	7	

Structure Usage								
		Last	Now	Explanation of Condition				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 : <b>NONE</b> )								
Channel General Rating			6					

			Maintenance Re	commend	dations					
Inspector Recommendations	Yea	ar I	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LININ	G									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CU	ΓOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) 44.4/44.4 Sufficiency Rating (Last/Now (%)			ow)	59.8/56.6	Est. Repl. Yr	2018	Maint. Re	qd. (Y/N)	No	
Special Monitor barrel def Comments for Next Inspection	lection/floor b	oulge at	t center and north pipe.		Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Arnold Ass	senheir	mer	Previous	Assistant's Name					
Next Inspection Date	25-Jan-20	16		Previous	Inspection Date	08-Jul-2009				
Inspection Cycle (Default) (months)	39									
Comment										