					Bridg	e Culv	ert Insp	ection					
Bridge File Number 73638 -1 Bridge Culvert							Form Type			CULM			
Year Built 1953						Lot No	•		4				
Bridge or Town Name PINCHER CREE					Inspector Name				Jon Davies				
Located Over KETTLES CREEK, 2.12.31.4, WA				ATERCRS-		Inspector Class Assistant Name		BR CLS B					
Located On		6:04 C1	43.047				Assistant Class						
Water Body Cl	./Year						Inspection Date		30-Oct-2011				
Navigabil. Cl./	Year						Data Entry By						
Legal Land Lo	cation	NE SEC	C 14 TWP 6 R	GE 30 W4	М		Data Entry Date		Alyssa Boynton 28-Nov-2011				
Longitude, Lati	itude	-113:56	:12, 49:28:46				Reviewer Name		Garry Roberts				
Road Authority Alberta Transportation (AIT)							Review Date		08-Nov-2011				
Contract Main.	Area	CMA26			Dept. Reviewer Name								
Clear Roadway	y/Skew	11.3 /				Dept. Review Date				01-Dec-2011			
AADT/Year		1,170/:	2010 (A)				Follow			01-Dec-2011			
Road Classific	ation	RAU-21	1.8-110				1 0110 W	брЪу					
Detour Length	(km)	3											
Bridge Culver	t Inform	ation											
Number of Cul	verts		1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		5460	2440		BP		36.6				RECTANGLE	
Special Featur	es												
Special Featur	es Comi	ment											
					Uti	lities (l	_ocated	at)					
Utility Attachm							0		P				
Telephone		t ditch & East ditch. Gas							Pump station at NE and gas @ SE				
Power		re East fenceline 15m from c/l.					Munici		N				
Others 1 line crossing channel 50m south							Proble	m (Y/N)	No				
Remarks				Δ.	nnrood	h Poo	d / Emb	ankment					
				~	Last	Now		Explanation of Condition					
Horizontal Alig	nment				7	7	Access roads all 4 corners.						
Vertical Alignm					6	6	No passing, crest curve to the South with limited sight distance. Intransistion zone down to 50km/hr.						
Roadway Widt	h (m)		11.000				Intrans	ISUON ZON					
Embankment					7	6							
Sideslope (	:1)		3.0										
(Height of Co		0.7)											
Guardrail (Y/N		,	Yes										
Approach Roa	ad / Eml	bankmei	nt General Ra	ting	6	6							
						Upstre	am End						
Culvert Component				Last	Now		Explanation of Condition						
Direction			W		West e								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall					6	5	Impact damage.						
Collar	Collar			X	Х								
Wingwalls					+								
Wingwalls					6	6	Concre	ete inlet sl	ab - cr	acked 2003/05	/08		

	j		Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End	1	X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			_
Above/Below (mm)	300			
Scour Protection		7	7	Grown in.
(Type : <b>RIP RAP</b> )				Natural @ banks.
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	5	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
•	tion Code: MAIN,			D, Rise (mm): 2440, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	30-Oct-2011			North cell.
Special Features				
Special Feature				
(Type:)		I		
Special Feature				-
(Type : )				
Roof		6	6	Typical hairline settlement cracks on roof and sidewalls.
Measured Rise (mm)	2440			
Measured At Ring No.	1			-
Sag (mm)	0			-
Percent Sag	0			-
Sidewall		6	6	Minor abrasion at lower sidewall area. NE sidewall damage at end,
Measured Span (mm)	1820			loss of concrete at joint with wingwall 700mm x 110mm
Measured At Ring No.	1			_
Deflection (mm)	0			
Percent Deflection	0			
Floor		6	6	Minor abrasion throughout.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	Minor settlement at the seam with some spalling in the floor section
Separation (mm)	20			
Longitudinal Seams		Х	X	
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		Х	X	
Corrosion By Soil (Y/N)				1
Corrosion By Water (Y/N)				1
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm	): 1820	, Rise (mm): 2440, Type: BP, Cell Sequence: 1)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	X						
(Type:)									
Waterway Adequacy		5	5	((Was running full in 1986 - 940113)).					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	6						
		Brid		lvert Barrel					
Culvert Component				Explanation of Condition					
•	ation Code: MAIN Sna			, Rise (mm): 2440, Type: BP, Cell Sequence: 2)					
Barrel Last Accessible Date	30-Oct-2011		,. 1020	Center Cell					
Darrei Last Accessible Date	30-001-2011								
Special Features									
Special Feature				-					
(Type:)				-					
Special Feature				-					
(Type:)									
Roof		6	6	Typical hairline roof & settlement cracks.					
Measured Rise (mm)	2440								
Measured At Ring No.	1								
Sag (mm)	0								
Percent Sag	0								
Sidewall		6	6	Poor construction joint & occasional honeycomb.					
Measured Span (mm)	1820			Cracked @ joint - eroded to waterstop. Some minor abrasion @ sidewalls.					
Measured At Ring No.	1								
Deflection (mm)	0								
Percent Deflection	0								
Floor		6	6						
Bulge (mm)	0								
Measured At Ring No.				Minor abrasion throughout.					
Abrasion (Y/N)	Yes								
Circumferential Seams		5	5						
Separation (mm)	25								
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		X	Х						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm	): 1820	, Rise (mm): 2440, Type: BP, Cell Sequence: 2)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	Х						
(Type : )									
Waterway Adequacy		5	5	((Ran full 1986 - 940113)).					
Icing (Y/N)	No			_					
Silting (Y/N)	No			At U/S caught on cell division walls.					
Drift (Y/N)	Yes								
Barrel General Rating		6	6						
		Brid	dge Cu	Ivert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm	): 1820	, Rise (mm): 2440, Type: BP, Cell Sequence: 3)					
Barrel Last Accessible Date	30-Oct-2011			South Cell					
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Туре : )									
Roof		6	6	Hairline cracks.					
Measured Rise (mm)	2440								
Measured At Ring No.	1			_					
Sag (mm)	0			-					
Percent Sag	0								
Sidewall		6	6	Narrow settlement cracks.					
Measured Span (mm)	1820			-					
Measured At Ring No.	1			-					
Deflection (mm)	0			-					
Percent Deflection	0		_						
Floor		5	5						
Bulge (mm)	0			-					
Measured At Ring No.	1			Minor abrasion throughout.					
Abrasion (Y/N)	Yes		-						
Circumferential Seams	05	5	5	-					
Separation (mm)	25								
Longitudinal Seams		X	X	-					
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		X	X						
Corrosion By Soil (Y/N)				_					
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	): 1820	, Rise (mm): 2440, Type: BP, Cell Sequence: 3)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	X						
(Type:)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	No			At U/S cell division wall.					
Drift (Y/N)	Yes			1					
Barrel General Rating		6	6						
-									
Culvert Component		Last	Now	eam End Explanation of Condition					
Direction		E	NOW	East.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall	1	6	6	Vertical cracks.					
Collar		X	Х						
Wingwalls		5	5	Bottom of NE wing moved out 90mm away. Typical diagonal cracks					
(Shape : FLARE)				1mm wide. Concrete outlet slab wide transverse cracks.					
Cutoff Wall		5	N	PR5					
Bevel End		X	Х						
Heaving (mm)									
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm)	300								
Scour Protection		7	7	In grown, natural @ banks.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>400</b> )									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
			structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		Laot							
Alignment		5	5	Pedestrian bridge for golf course 15m U/S.					
5									
				((Ran full 1986 - 940113))					
				Series of concrete dams D/S to accomodate elevation drop.					
Bank Stability		4	4	Bank eroding 20m and 50m D/S at South					
HWM (m below Top of Culvert)	103.0			No HWM visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·								
(Fish Compensation Measure 2 :	NONE)		_						
Channel General Rating		4	4						
			Page	F of 7					

Structure Usage Last Now Explanation of Condition

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS	INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	66.7/66.	7 Sufficiency Rating (Last/N (%)	low)	<b>60.1/59.2</b> Est. Repl. Yr 2028		2028	Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Jason		Rusu		Previous <i>J</i>	vious Assistant's Name							
Next Inspection Date 30-J		2013		Previous	Inspection Date							
Inspection Cycle (Default) (months)	21											
Comment												