Bridge Culvert Inspection													
Bridge File Nur	nber	73925 -	1 Bridge Culve	rt			Form Type			CULM			
Year Built		1989					Lot No			4			
Bridge or Town	Name	RAYMO	OND				Inspec	tor Name		Jon Davies			
Located Over			IRRIGATION C	, WATER	CRS-I					BR CLS B			
Located On 52:02 C1 4.916					Assistant Name								
Water Body Cl./Year					Assistant Class								
Navigabil. CI./Y							Inspec	tion Date		28-Sep-2011			
Legal Land Loc		SW SE	C 13 TWP 6 R0	GE 21 W4	IM		Data E			Erin Roberts			
Longitude, Latit		-112:43	3:04, 49:27:54					ntry Date		01-Nov-2011			
Road Authority		Alberta	Transportation	(AIT)				Reviewer Name Garry Roberts					
Contract Main.	Area	CMA25					Review	/ Date		03-Oct-2011			
Clear Roadway	/Skew	11.9 /					Dept. F	Reviewer Nai	me	Tim Davies			
AADT/Year		2,010/	2010 (A)					Review Date		17-Nov-2011			
Road Classifica	ation		11.8-110				Follow						
Detour Length	(km)	3											
Bridge Culvert	· · · · · · · · · · · · · · · · · · ·						1						
Number of Culv			4										
Pipe #	Barrel			Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		3400	4800		BP		43.8				RECTANGLE	
2	MAIN		3400	4800) BP			43.8				RECTANGLE	
3	MAIN		3400	4800		BP		43.8				RECTANGLE	
4	MAIN		3400	4800		BP		43.8				RECTANGLE	
Special Feature	es												
Special Feature	es Comi	ment			1 14	litios (I	ocated	at)					
Utility Attachme	onte				01	nues (L	Jocaleu	atj					
Telephone		r/w & N	orth r/w				Gas						
Power			uth row- crosses	s West			Municipal						
Others		optics N					Problem (Y/N) No						
Remarks		00000						(.,)	-				
				A	oproad	ch Road	d / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Aligr	nment				7	7	Local road intersection 50m West						
Vertical Alignm	ent				8	8							
Roadway Width	ר (m)		12.000										
Embankment					7	7							
Sideslope (:1)		4.0			1	1						
(Height of Co	· ·	1.2)					1						
Guardrail (Y/N)		/	Yes										
Approach Roa	ld / Eml	bankme	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	onent				Last			ation of Co	ndit	ion			
(Pipe # : 1, Sp		e:)											
Direction	- 7 - 7	/			S		South	end					
	(Concre	ete, Stee					Court						
Headwall			1		7	7	Some vertical hairline cracks.						
Collar					X	Х							

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type:)								
Wingwalls		7	6	Inward movement of wall 60mm at SW and 40mm at SE. Handrail or				
(Shape :)			_	the wing wall and headwalls- base plates corroding. Measured at top headwall				
Cutoff Wall		N	N					
Bevel End		X	Х					
Heaving (mm)								
Invert Above/Below Stream Bed								
Above/Below (mm)								
Scour Protection		7	7	Some 400mm.				
(Type : RIP RAP)				_				
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating	1	7	6					
		Brie	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 3400), Rise (mm): 4800, Type: BP)				
Barrel Last Accessible Date	19-Jan-2010			West cell. Not accessible due to high water flow and depth.				
Special Features	•		1					
Special Feature				_				
(Type :)			-	_				
Special Feature								
(Туре:)		,						
Roof		7	N	(Transverse narrow cracking with white stains in sidewalls and roof.)				
Measured Rise (mm)	4800			19-Jan-2010				
Measured At Ring No.	1			PR 7				
Sag (mm)	0			_				
Percent Sag								
Sidewall		7	N	(Isolated cracks)19-Jan-2010				
Measured Span (mm)	3400							
Measured At Ring No.	1							
Deflection (mm)	0							
Percent Deflection								
Floor		N	N	High water				
Bulge (mm)	0							
Measured At Ring No.	1							
Abrasion (Y/N)	No							
Circumferential Seams		Х	Х					
Separation (mm)	0							
Longitudinal Seams		X	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)				1				
Longitudinal Stagger (Y/N)				1				

Bridge Inspection & Maintenance System (Web 2005)

		Bric	lae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN,			
Coating	· · · · · ·	X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	_
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	PR 7
		Bric	lae Cu	lvert Barrel
Culvert Component		1		Explanation of Condition
	_ocation Code: MA			400, Rise (mm): 4800, Type: BP)
Barrel Last Accessible Date	19-Jan-2010			2nd from West. Not accessible due to high water depth and flow
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
		7	N	
Roof	4000	7	N	PR 7
Measured Rise (mm)	4800			-
Measured At Ring No.	1			-
Sag (mm)	0			-
Percent Sag				
Sidewall		7	N	(Isolated vetical cracks) 19-Jan-2010 PR 7
Measured Span (mm)	3400			
Measured At Ring No.	1			-
Deflection (mm)				-
Percent Deflection				
Floor		N	N	High water depth and flow
Bulge (mm)				-
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		Х	Х	
Separation (mm)	0			
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)				1
Longitudinal Stagger (Y/N)				1

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	Location Code: MA			400, Rise (mm): 4800, Type: BP)
Coating		X	X	
Corrosion By Soil (Y/N)			~	
Corrosion By Water (Y/N)				-
Camber POS/ZERO/NEG	ZERO			
	ZENO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			1
Silting (Y/N)	No			1
Drift (Y/N)	No			1
Barrel General Rating	110	7	N	PR 7
Barrer General Kating				
				Ivert Barrel
Culvert Component				Explanation of Condition
		IN, Span (r	nm): 34	400, Rise (mm): 4800, Type: BP)
Barrel Last Accessible Date	19-Jan-2010			3rd from West- not accessible due to high water depth and flow
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	PR 7
Measured Rise (mm)	4800			
Measured At Ring No.	1			
Sag (mm)				
Percent Sag				-
Sidewall		7	N	(Isolated cracks) 19-Jan-2010
Measured Span (mm)	3400		IN	
Measured At Ring No.	1			-
Deflection (mm)				-
Percent Deflection				-
		NI	NI	Lich water depth and flow
Floor		N	N	High water depth and flow
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams		X	X	
Separation (mm)	0		1	
Longitudinal Seams		Х	X	
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)				

Bridge Inspection & Maintenance System (Web 2005)

	Brid	dae Cu	Ivert Barrel
			Explanation of Condition
Location Code: MAIN			
	X	X	
ZERO			
No			
	7	7	
	X	X	
	7	7	
No	,	,	
			1
INU		N	PR 7
			Ivert Barrel
			Explanation of Condition
	N, Span (r	nm): 3	
19-Jan-2010			East Cell- not accessible due to high water depth and flow
	7	N	PR 7
4800			
1			
0			
	7	N	(Isolated Vertical cracks) 19-Jan-2010
3400			PR 7
			1
			1
-			1
	N	N	High water depth and flow
	X	X	
0			1
-	Y	X	
		Λ	
			1
	ZERO No Interview Interview Interview Interview Interview Interview Interview Interview Interview	LastLastLast∠IIZERONo√√√<	Jail of Code: MAIN, Span (IIII): 3XXX2AAZEROAYNo77XXXIT7NoAYAAYNoAYNoAYIIA

Bridge Inspection & Maintenance System (Web 2005)

73925 -1 Bridge Culvert

		Brie	dqe Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	ocation Code: MAI			400, Rise (mm): 4800, Type: BP)
Coating		Х	Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type:)		i		
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	PR 7
		D	ownstr	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 4, Span Type:)				
Direction		N		North end
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Narrow vertical cracks at handrail bases Corrosion stains @ handrail base plate
Collar		X	Х	
Wingwalls		7	6	(Bottoms of wingwalls have crept in 25mm) Jan-19-2010
(Shape :)				Inward movements of wingwalls. 40mm at NW and NE measured at top
Cutoff Wall		N	N	
Bevel End		X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rati	ng	7	6	
			Structu	re Usage
		Last	1	
Channel (U/S and D/S)				
Alignment		8	8	Drop structure approx 60m U/S. CPR bridge abuts 100m D/S Bridge is removed
Bank Stability		8	8	
HWM (m below Top of Culvert)	2.0			HWM on rock protection
Drift (Y/N)	No			

Structure Usage										
Last Now Explanation of Condition										
Channel Bottom Degrading/Aggrading	NONE									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector Comments		Department Comm	nents		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTO	FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow)	77.8/55.	6 Sufficiency Rating (Last/N (%)	ifficiency Rating (Last/Now)		Est. Repl. Yr 2050		Maint. Reqd. (Y/N)		No			
Special Comments for Next Inspection					Department Comments								
Maintenance Reviewed By					Date Estimated Total 0								
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Garry R	Roberts		Previous /	evious Assistant's Name								
Next Inspection Date 28-		-2013		Previous I	ous Inspection Date 19-Jan-2010								
Inspection Cycle (Default) (months)	21												
Comment													