Bridge Culvert Inspection													
Bridge File Number 72424 -1 Bridge Culvert							Form 1		CULM	CULM			
Year Built		1959					Lot No.		4	4			
Bridge or Town Name NANTON							Inspec	tor Name	Jon Davies	Jon Davies			
Located Over NANTON CREEK, 2.12.12.12.5,							Inspector Class		BR CLS B				
WATERCRS-ST							Assistant Name						
Located On 2:10 R1 25.726;2:10 L1 25.654							Assista	Assistant Class					
Water Body Cl.	/Year						Inspec	tion Date	18-Oct-2011				
Navigabil. Cl./Y	'ear						Data Entry By Erin Roberts						
Legal Land Loo	cation	SE SEC	21 TWP 16 R	GE 28 W	4M			Data Entry Date 21-Nov-2011					
Longitude, Latitude -113:47:28, 50:21:39								Reviewer Name Garry Roberts					
Road Authority Alberta Transportation (AIT)								Review Date 08-Nov-2011					
Contract Main. Area CMA27							Dept. F	Reviewer Nam	e Tim Davies				
Clear Roadway	//Skew	21.4/30	0 deg. (RHF)					Review Date	25-Nov-2011				
AADT/Year							Follow						
Road Classifica	ation	RAD-41	2.4-120										
Detour Length	(km)	1											
Bridge Culver	t Inform	nation											
Number of Cul	verts		1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		6100	3050		BP		53.3			RECTANGLE		
Special Feature	es		STORM WATE		I								
Special Feature	es Comi	ment											
					Uti	ilities (L	ocated	at)					
Utility Attachme							1						
Telephone	At Eas	st r/w.					Gas						
Power	_				Munici								
Others Fiber optics East ROW							Proble	m (Y/N) No					
Remarks													
							d / Embankment Explanation of Condition						
Horizontal Alia	oment				Last 5	5	Curve 50 m South.						
Horizontal Alignment Vertical Alignment				8	8								
Vertical Alignin	ent				0								
Roadway Width	h (m)		21.400										
Embankment					7	7							
Sideslope (·1)		3.0										
(Height of Co		2)	0.0										
Guardrail (Y/N)	. ,	/	Yes										
Approach Roa	ad / Eml	bankmer	nt General Rat	ing	5	5							
				U									
Culurat Commenced							am End						
Culvert Comp Direction	onent				Last W	Now	Explanation of Condition West end.						
End Treatment	(Concre	ete, Stee			VV		vveste	and.					
Others, None) Headwall					6	6	Minor cracks and scaling						
Collar					X	X							

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			Upstr <u>e</u>	am End					
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls			5	Minor cracks. Walls have moved away at barrel jct - away 25mm					
(Shape : FLARE)				and in 50 mm at SW. Moved inward 100mm and away 50mm at NW					
Cutoff Wall		N	N	Silt covered					
Bevel End		X	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed				At streambed.					
Above/Below (mm)	0								
Scour Protection		6	6	INGROWN					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			-						
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 3050	, Rise (mm): 3050, Type: BP, Cell Sequence: 1)					
Barrel Last Accessible Date	18-Oct-2011			South.					
Special Features									
Special Feature		6	6	In Ring 2					
(Type : STORM WATER DRAI	N)								
Special Feature									
(Туре :)									
Roof		6	6	Minor hairline long. cracks.					
Measured Rise (mm)				_					
Measured At Ring No.				-					
Sag (mm)	0			-					
Percent Sag			_						
Sidewall	1	6	6	Some minor wide cracking near top of walls 1 to 1.5 mm.					
Measured Span (mm)									
Measured At Ring No.				-					
Deflection (mm)	0			-					
Percent Deflection			_						
Floor		N	N	600 mm water and silt on floor. Steel fence panels washed into R1					
Bulge (mm)									
Measured At Ring No.				-					
Abrasion (Y/N)									
Circumferential Seams	22	6	6	Efflorescence and minor leakage. 10mm vertical separation R2-R3					
Separation (mm) 20									
Longitudinal Seams		X	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)			_						
Coating		X	X						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									

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		Brid	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN, S	Span (mm): 3050), Rise (mm): 3050, Type: BP, Cell Sequence: 1)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
-	ation Code: MAIN, S), Rise (mm): 3050, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	18-Oct-2011			North.
				Receives most of flow.
Special Features			1	
Special Feature				
(Type:)				-
Special Feature				
(Type :)				
Roof		6	6	Minor long. hairline cracks.
Measured Rise (mm)				-
Measured At Ring No.				-
Sag (mm)	0			-
Percent Sag		_		
Sidewall		6	6	Isolated cracks at U/S and D/S end. Up to 1mm wide at NE. Vertical & longitudinal
Measured Span (mm)				
Measured At Ring No.				-
Deflection (mm)	0			-
Percent Deflection				
Floor		N	N	0 to 400mm deep silt and water on floor. Steel fence panels washed into R1
Bulge (mm)				
Measured At Ring No.				-
Abrasion (Y/N)			-	
Circumferential Seams	20	6	6	Roof seam - box lower 15 mm from u/s end.
Separation (mm)	20		1	Efflorescense and minor leakage.
Longitudinal Seams		X	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)				
Coating		Х	Х	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

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Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm): 3050), Rise (mm): 3050, Type: BP, Cell Sequence: 2)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		X	X						
(Type:)				-					
Waterway Adequacy		7	7	This cell takes the stream flow.					
Icing (Y/N)	No		1						
Silting (Y/N)	No			-					
Drift (Y/N)	No			-					
Barrel General Rating	INO	6	6						
Barrer General Kating		0	0						
				ream End					
Culvert Component			Now	Explanation of Condition					
Direction End Treatment (Concrete, Steel, Others, None)	CONCRETE	E		East end. Vegetated silt 600 mm high across outlet of South cell					
Headwall		6	6	Minor cracks					
Collar		X	X						
Wingwalls		5	4	Wing moved away 60 mm and in 200 mm with loss of fill @ NE.					
(Shape : FLARE)				0.5m long x 0.2m wide x 0.8m deep					
Cutoff Wall			N	Silt covered					
Bevel End		X	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		7	7	In grown ROCK @ SOUTH					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	4						
		S	structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			5	Stream enters North cell RxR Bridge removed D/s abuts. still in place					
Bank Stability		5	5	Steep cut @ NW					
HWM (m below Top of Culvert)	2.0			Grass HWM @ u/s gates					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								

Structure Usage										
		Last	Now	Explanation of Condition						
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5								

Maintenance Recommendations												
Inspector Recommendations			Year	ear Inspector Comments			Department Com	iments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION					1							
Structural Condition Rating (Last/Now) (%)			66.7/66.	7	Sufficiency Rating (Last (%)	t/Now)	65.8/67.0	Est. Repl. Yr	2035 Maint. Re		qd. (Y/N)	No
Special Comments for Next Inspection			ment. Ap	opears sta ies. J Dav	able this inspection but ma vies 25-Oct-2011	y require	Department Comments					
Maintenance Revi	ewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspector's Name Garr		Garry Roberts			Previous	Previous Assistant's Name						
Next Inspection Date 18		18-Jul-2013 Pro				Previous	ous Inspection Date 26-Jan-2010					
Inspection Cycle (Default) (months)	21										
Comment												