				В	rida	e Culve	ert Inspectio	n						
Bridge File Nur	nber	71986 -1 Bridge Culvert				e Guive	Form Type			CULM				
Year Built							Lot No.			4				
Bridge or Town Name NANTON							Inspector Name		Garry Roberts					
Located Over								Inspector Class			BR CLS A			
		TEDCDQ_QT				Assistant Name			DIC CEO /					
Located On		22:08 C	21 36.412				Assistant Class							
Water Body Cl.	/Year						Inspection Date		05-Jun-2012					
Navigabil. Cl./Y	'ear						Data Entry By		Kelsey Roberts					
Legal Land Loc	ation	SE SE	C 26 TWP 13 R	GE 2 W5M			Data Entry I			05-Jul-2012				
Longitude, Latitude -114:10:11, 50:06:22							Reviewer Name		Tom Carey					
Road Authority Alberta Transportation (AIT)				(AIT)			Review Date		18-Jun-2012					
Contract Main.	Area	CMA27	7				Dept. Revie	wer l	Name	Tim Davies				
Clear Roadway	/Skew	12.2 /					Dept. Revie			12-Jul-2012				
AADT/Year		1,980 /	2011 (A)				Follow-Up E							
Road Classifica	ation	RAU-2	11.8-110				I ollow-op by							
Detour Length	(km)	60												
Bridge Culvert		ation												
Number of Culv	/erts		2											
Pipe #	Barrel		Span	Rise (or Di	ia.)	.) Type Length			Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		2900	3200		SPE	55.5	5		152X51	3.5,3.5,3.5	ELLIPSE		
2	MAIN		2900	3200		SPE	55.5	5		152X51		ELLIPSE		
Special Feature	es													
Special Feature	es Comi	ment												
					Uti	ilities (L	_ocated at)							
Utility Attachme														
Telephone	Plowe	ed in ditch @ West r/w.					Gas							
Power							Municipal	(5.1)						
Others Fibre optics plowed in East ditch.				tcn.			Problem (Y/	'IN)	No					
Remarks				A		h Daa	d / Embanden							
					ast.	Now	d / Embankm Explanation			tion				
Horizontal Aligr	nment				.α σι 7	7	Local road i							
Vertical Alignm					6	6	Blind crest of							
Roadway Width			12.200			0								
Noadway Widti	1 (111)		12.200											
Embankment					7	7								
Sideslope (_:1)		3.0											
(Height of Co	ver(m)	4.1)												
Guardrail (Y/N)			Yes											
Approach Roa	ıd / Eml	oankme	nt General Rat	ing	6	6								
						Unstre	am End							
Culvert Compo	onent			L				n of (Condi	tion				
(Pipe # : 1, Sp		e: Prima	ary Span)	'										
Direction			V	٧		South pipe - West end.								
	(Concre	ete, Stee	el, CONCRETE]	John Pipo Troot Office.						
Headwall					8	8	Narrow cracks							
Collar				8	7	Narrow cracks.								
Collai					Ŭ	'	INATIOW CIAC	JKS.						
Wingwalls					X	X	Narrow Crac							

71986 -1 Bridge Culvert

			Unstra	am End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	Luot	11011	Explanation of condition
Cutoff Wall	,	7	N	Buried
Bevel End		7	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)				
Scour/Erosion		8	8	
Beavers (Y/N)	Yes			Partial beaver dam located 100m U/S
Upstream End General Rating		7	7	
		_ Dei	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			
Barrel Last Accessible Date	08-Oct-2010		.,. <u></u>	South pipe. Water too deep and running too fast to enter pipe, viewed from both ends appears good.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	N	(Roof leaks @ ring #2 from D/S.) 96/05/08
Measured Rise (mm)	3120	- '	- 14	P.R. 7
Measured At Ring No.	3			
Sag (mm)	80			
Percent Sag	2			
Sidewall	1-	7	N	P.R. 7
Measured Span (mm)	3025	•		
Measured At Ring No.	3			
Deflection (mm)	125			
Percent Deflection	7			
Floor		7	N	P.R. 7
Bulge (mm)	0	·		
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	N	P.R. 7
Separation (mm)	0			
Longitudinal Seams		7	N	P.R. 7
Total No. of Cracked Rings	0			
Total No. of Rings with Two	-			
Cracked Seams Min. Remaining Steel				2N stagger
Between Cracks (mm)	NI-			3N stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			10 111 0 110 1 1 1 1 1 1
Coating	1	6	N	(Superficial corrosion @ U/S bevel and abrasion.)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 2900	, Rise (mm): 3200, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type: WEIR)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		E		South pipe East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	Х	
Wingwalls		Х	X	
(Shape:)			_	
Cutoff Wall		X	Х	
Bevel End		6	6	Minor bend of 200mm along South bevel from rock placement.
Heaving (mm)	0			
	BELOW			
Above/Below (mm)	300		_	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)		1		
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1		T
Direction		W		North pipe West end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	Narrow cracks
Collar		8	7	Narrow cracks.
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		7	N	

71986 -1 Bridge Culvert

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	iary Span)		_	
Bevel End	 	7	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
-	ocation Code: MAIN,			900, Rise (mm): 3200, Type: SPE)
Barrel Last Accessible Date	08-Oct-2010			North pipe. Water too deep and running too fast to enter pipe. Viewed from ends- appears good.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		<u>'</u>		
Roof		7	N	(Roof leaks @ ring #2 from d/s) 96/05/08
Measured Rise (mm)	3310			P.R. 7
Measured At Ring No.	3			
Sag (mm)	90			
Percent Sag	3			
Sidewall		7	N	P.R. 7
Measured Span (mm)	2965			
Measured At Ring No.	10			
Deflection (mm)	65			
Percent Deflection	2			
Floor	_	7	N	P.R. 7
Bulge (mm)	0	1	14	1 133.7
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams	. 00	7	N	P.R. 7
Separation (mm)	0	1	IN	1 1867
	U	7	N.I.	P.R. 7
Longitudinal Seams Total No. of Creaked Bings	0	7	N	F.N. /
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				3N stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	N	Superficial corrosion @ u/s bevel and abrasion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid	dge Cu	Ivert Barrel
Culvert Component		1	T -	Explanation of Condition
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 29	900, Rise (mm): 3200, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		_	
Barrel General Rating		7	N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		Е		North pipe East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)			_	
Cutoff Wall		Х	Х	
Bevel End		6	6	Minor bend along South bevel due to large rock placement.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)		1		
(Avg. Rock Size(mm) : 1000) Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
		9	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)		1	111111	
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)	0.8			
Drift (Y/N)	Yes			Drift between bevels- 0.8m from top of pipe.
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	i									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 77.8/) 77.8/55.6 Suffic (%)		sufficiency Rating (Last/Now) %)		Est. Repl. Yr	2030	2030 Maint. Re		No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	I 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Robert	S		Previous	s Assistant's Name					
Next Inspection Date	05-Mar-2014			Previous	Inspection Date	08-Oct-2010				
Inspection Cycle (Default) (months)	21									
Comment										