Bridge Culvert Inspection															
Bridge File Nur	mber	72290 -	1 Bridge Culve	rt			Form 7	уре		CUL1					
Year Built		1971					Lot No			2					
Bridge or Town	Name	STAND	ARD				Inspector Name			Garry Roberts					
Located Over		SEVER	N CREEK, 3.33	3.8, WAT	ERCR	S-ST	Inspector Class			BR CLS A					
Located On		840:02	C1 17.739				Assistant Name								
Water Body Cl.	./Year						Assistant Class								
Navigabil. Cl./Y	/ear						Inspection Date			10-Jan-2012					
Legal Land Loc	cation	NW SE	C 2 TWP 26 R0	3E 22 W	4M		Data E	ntry By		Anne Roberts					
Longitude, Lati	tude	-112:58	3:54, 51:11:46				Data E	ntry Date)	07-Feb-2012					
Road Authority	,	Alberta	Transportation	(AIT)			Reviev	ver Name)	Joel Wozney					
Contract Main.	Area	CMA29	1				Reviev	v Date		18-Jan-2012					
Clear Roadway	//Skew	8.8 / 11	deg. (RHF)				Dept. F	Reviewer	Name	Tim Davies					
AADT/Year		620 / 20	010 (A)				Dept. F	Review D	ate	09-Feb-2012					
Road Classifica	ation	RCU-21	11-110				Follow	-Up By							
Detour Length (km) 6 Bridge Culvert Information		6													
Bridge Culver	t Inform	ation													
Number of Culv	verts		1												
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		1981	2286		SPE	62.8			152X51	3.0	ELLIPSE			
Special Feature	es														
Special Features Comment															
								4)							
Litility Attachma	onto				Ut	ilities (L	ocated	at)							
Utility Attachme		ditch					Gas								
Telephone West ditch							nal								
Power Others							Munici	m (Y/N)	No						
Remarks							FIODIE	III (171 N)	INO						
Remarks				Δ	nnroa	ch Road	l / Emb	ankment							
						Now		Explanation of Condition							
Horizontal Alignment			Last 8	7											
Vertical Alignment					8	7									
Roadway Widtl			8.800												
Embankment				4	5	Ditch e	Ditch erosion @ NW not affecting culvert								
Sideslope (:1)		2.0							9					
(Height of Cover(m): 7.3)															
Guardrail (Y/N)			No												
Approach Road / Embankment General Rating					4	7									
						Upstre	am End								
Culvert Component					Last	Now	Explar	nation of	Condi	tion					
Direction		W													
End Treatment (Concrete, Steel, Others, None)															
Headwall					Х	X									
Collar					Х	Х									
Wingwalls					Х	Х									
(Shape:)															
Cutoff Wall					Х	X									

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Explanation of Condition
Heaving (mm)	0	0	0	
Invert Above/Below Stream Bed				
	50			
Above/Below (mm)	50	7	7	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)			-	
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 # : 1, Primary Span, Loca	tion Code: MAIN.			· ·
Barrel Last Accessible Date	10-Jan-2012			
Special Features				
Special Feature				
(Type:)		<u> </u>		
Special Feature				
(Type:)		<u> </u>		
Roof		4	4	Could not confirm rise due to ice in R8
Measured Rise (mm)	2090	· ·	<u> </u>	Sound Hot Committee and to loo in the
Measured At Ring No.	8			-
Sag (mm)	196			
Percent Sag	8			-
Sidewall		3	4	Small construction tear in North sidewall R3.
Measured Span (mm)	2165	3	7	Isolated construction dents.
Measured At Ring No.	8			
Deflection (mm)	184			
Percent Deflection	9			-
	9			
Floor		5	5	-
Bulge (mm)	0			-
Measured At Ring No.	N ₂			-
Abrasion (Y/N)	No			
Circumferential Seams	1-	7	7	
Separation (mm)	0			
Longitudinal Seams		5	4	
Total No. of Cracked Rings	0			1 seam at North sidewall not properly lapped with several loose bolts
Total No. of Rings with Two Cracked Seams				and gaps to 10 mm
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Superficial corrosion @ u/s bevel &
Corrosion By Soil (Y/N)	Yes			floor and soil, corrosion stains through bolt holes
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

	Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 1981, Rise (mm): 2286, Type: SPE)										
Fish Passage Adequacy		Х	7							
Baffle			Х							
(Type:)										
Waterway Adequacy			4	Grass on roof and upper sidewall bolts indicate pipe has run full						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	4							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		Е								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar		Х	X							
Wingwalls		X	Х							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End		6	6							
Heaving (mm)	50									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm)	100									
Scour Protection		4	4	Bevel undermined & 2m diameter deep rock lined scour hole						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		4	4							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4							
		s	tructu	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)			I							
Alignment			6							
Bank Stability			7							
HWM (m below Top of Culvert) 0.0				Grass on roof bolts						
ift (Y/N) No										
Channel Bottom Degrading/Aggrading DEGRADING										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		6	6							

		Maintenance R	ecommen	dations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2013	10 m 3 Cl. 1 at D/S							
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 33.3/44	.4 Sufficiency Rating (Lastr	/Now)	39.6/47.7	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection				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	Jason Rusu		Previous	Assistant's Name					
Next Inspection Date	10-Apr-2015		Previous	Inspection Date	21-Oct-2008				
Inspection Cycle (Default) (months)	39								
Comment									