74324 -1 Bridge Culvert

					Brida	e Culve	ert Insp	ection				
Bridge File Number 74324 -1 Bridge Culvert				-11 K-Q		Form Type			CULE			
Year Built		g				Lot No.		4				
Bridge or Town	n Name	ON				Inspector Name		Jason Rusu				
Located Over			ARY TO PINE CREEK, 2.13.29.1,				Inspector Class		BR CLS A			
		WATER	CRS-ST				Assistant Name					
Located On	1 2.671	2.671				Assistant Class						
Water Body Cl./Year							Inspection Date		11-Aug-2012			
Navigabil. Cl./					Data Entry By		Lauren Korte					
Legal Land Location NE SEC 3			26 TMD 21 DCE 1 M5M				Data Entry Date		05-Sep-2012			
Longitude, Latitude -114:00:14		14, 50:49:48				Reviewer Name		Garry Roberts				
Road Authority Alberta Tra		ransportation (AIT)				Review Date		19-Aug-2012				
Contract Main.	Area	CMA27					Dept. Reviewer Name					
Clear Roadwa	y/Skew	35 / 0 de	eg.				Dept. Review Date		06-Sep-2012			
AADT/Year		18,550 /	2011 (A)					-Up By				
Road Classific	ation	RFD-61	6.6-130					- ₁ - - <i>y</i>				
Detour Length	· ,	1										
Bridge Culver		ation										
	Number of Culverts 1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN		1980	1980		BP	24.8			THOMICOS	RECTANGLE	
1			900		MP		27.4				ROUND	
Special Featur				300		IVII		21.7		l		INCOIND
Special Featur		ment										
Opeoidi i edidi	00 001111	TIOTIC										
					Uti	ilities (L	ocated	at)				
Utility Attachm	ents											
Telephone	East F	R/W.					Gas					
Power	1 wire	e @ West R/W.							standard to No	rth.		
Others	Fibre	optics @ West R/W.					Problem (Y/N) No					
Remarks												
						d / Embankment Explanation of Condition						
					Last 7	Now 7			Condi	tion		
Horizontal Alignment								Grade to South. Intersection 750m North.				
Vertical Alignment		05.000	35.000		7							
Roadway Widt	n (m)		35.000									
Embankment					N	7						
Sideslope (_	_:1)		3.0	3.0								
(Height of Co		: 1)										
Guardrail (Y/N)		Yes	Yes			East side only.					
Approach Roa	ad / Eml	bankmen	it General Rat	ing	7	7						
						Unstre	am End	ī				
Culvert Comp	onent				Last		Explanation of Condition			tion		
Direction				W		Inlet.		J J.101				
End Treatment (Concrete, Steel, Others, None)			, STEEL					m MP wes	st side.			
Headwall				N	Х							
Collar				N	Х							
Wingwalls					N	X						
(Shape:												

Cutvert Component			am End		
Bevel End	Culvert Component				
Heaving (mm)			N	Х	
Invert Above/Below Stream Bed	Bevel End		N	6	
Invert Above/Below (mm)		0			
Above/Below (mm) 100					
Scour Protection					
(Type : NATURAL) (Ayg Rock Size(mm) :) Scourfcrosion N 7			N	7	
Avg. Rock Size(mm) :)	(Type: NATURAL)				
Scour/Erosion					
Culvert Component			N	7	
Bridge Culvert Barrel	Beavers (Y/N)	No			
Culvert Component (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP) Barrel Last Accessible Date 11-Aug-2012 Special Features Special Feature	Upstream End General Rating		N	6	
Culvert Component (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP) Barrel Last Accessible Date 11-Aug-2012 Special Features Special Feature			Brid	dae Cu	lvert Barrel
Pripa # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)	Culvert Component				
Barrel Last Accessible Date		tion Code: MAIN. Sp:			•
Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof N 7 Measured Rise (mm) 1980 Measured At Ring No. Sag (mm) Sag (mm) 0 Percent Sag N 7 Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) Deflection (mm) 0 Percent Deflection N N 100mm of sitt. Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) Abrasion (Y/N) No Circumferential Seams N N X Total No. of Rings with Two Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N X Corrosion By Soil (Y/N)			uii (iiiii	17. 1000	, race (mm). roos, type. Bi /
Special Feature	Barrer East / (occssible Bate	11 //dg 2012			
Type : Special Feature Common	Special Features				
Special Feature (Type:)	Special Feature				
Type : Roof	(Type:)				
Roof	Special Feature				
Measured Rise (mm) 1980 Measured At Ring No. 0 Sag (mm) 0 Percent Sag 0 Sidewall N 7 Measured Span (mm) 1980 Measured At Ring No. 0 Deflection (mm) 0 Percent Deflection N N Floor N N Bulge (mm) 0 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams N N Steelplate covering seam. Separation (mm) N X Longitudinal Seams N 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) N X Coating N X Corrosion By Soil (Y/N) N X	(Type:)				
Measured At Ring No. Sag (mm)	Roof		N	7	
Sag (mm)	Measured Rise (mm)	1980			
Percent Sag Sidewall	Measured At Ring No.				
Sidewall N 7 Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) 0 Percent Deflection Floor N N N 100mm of silt. Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams Separation (mm) Longitudinal Seams 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 N X Corrosion By Soil (Y/N)	Sag (mm)	0			
Measured Span (mm) 1980 Measured At Ring No. Deflection (mm) 0 Percent Deflection Floor N N N 100mm of silt. Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams Separation (mm) Longitudinal Seams 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 N X Corrosion By Soil (Y/N)	Percent Sag				
Measured At Ring No. Deflection (mm) 0 Percent Deflection Floor N N N Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams N N Separation (mm) Longitudinal Seams N 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 N X Corrosion By Soil (Y/N)	Sidewall		N	7	
Deflection (mm) 0 Percent Deflection Floor N N N Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams N N Steelplate covering seam. Separation (mm) Longitudinal Seams N 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 N X Corrosion By Soil (Y/N)	Measured Span (mm)	1980			
Percent Deflection Floor	Measured At Ring No.				
Floor N N N 100mm of silt. Bulge (mm) 0	Deflection (mm)	0			
Bulge (mm) 0 Measured At Ring No. Abrasion (Y/N) No Circumferential Seams N N Steelplate covering seam. Separation (mm) Longitudinal Seams N 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 N X Corrosion By Soil (Y/N)	Percent Deflection				
Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 N X Steelplate covering seam.	Floor		N	N	100mm of silt.
Abrasion (Y/N) No Circumferential Seams N N Steelplate covering seam. Separation (mm) Longitudinal Seams N 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 N X Corrosion By Soil (Y/N)	Bulge (mm)	0			
Circumferential Seams Separation (mm) Longitudinal Seams N 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 N X Steelplate covering seam.	Measured At Ring No.				
Separation (mm) Longitudinal Seams N 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 N X Corrosion By Soil (Y/N)	Abrasion (Y/N)	No			
Longitudinal Seams 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 N X Corrosion By Soil (Y/N)	Circumferential Seams		N	N	Steelplate covering seam.
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 N X Corrosion By Soil (Y/N)	Separation (mm)				
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 N X Corrosion By Soil (Y/N)	Longitudinal Seams		N	Х	
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N X Corrosion By Soil (Y/N)	Total No. of Cracked Rings				
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N X Corrosion By Soil (Y/N)	Total No. of Rings with Two Cracked Seams				
Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N X Corrosion By Soil (Y/N)	Min. Remaining Steel				
Longitudinal Stagger (Y/N) Coating N X Corrosion By Soil (Y/N)	` '				
Coating N X Corrosion By Soil (Y/N)					
Corrosion By Soil (Y/N)			N	Х	
					1
Corrosion By Water (Y/N)	Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG ZERO		ZERO.			

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		Brid		vert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1980	, Rise (mm): 1980, Type: BP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		N	Х	
(Type:)				
Waterway Adequacy		N	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
		Brid	dae Cui	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: D/S, Span	(mm):		Rise (mm): 900, Type: MP)
Barrel Last Accessible Date	30-Nov-2007			900mm CSP. Not accessible- not bridge size.
Special Features				
Special Feature				Viewed from ends- shape appears good.
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)	850			
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	5			
Sidewall		N	N	
Measured Span (mm)	950			
Measured At Ring No.				
Deflection (mm)	50			
Percent Deflection	5			
Floor		N	N	(100mm of silt @ u.s end, 300mm @ d/s end.) Nov 30, 2009
Bulge (mm)				BP has moderate silt accumulation also.
Measured At Ring No.				I had mederate out accumulation aloc.
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	40			
Longitudinal Seams		N	N	
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		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	NEG			

74324 -1 Bridge Culvert

		Brid		Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	, F	Rise (mm): 900, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		N	Х	
(Type:)				
Waterway Adequacy		N	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ıg	N	N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		Е		East end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		N	6	
Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape: FLARE) Cutoff Wall Bevel End Heaving (mm) [Concrete, Steel, Concrete Concret		N	Х	
Wingwalls		N	5	6mm wide diagonal crack in North.
(Shape : FLARE)				
Cutoff Wall		N	X	
Bevel End		N	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	N	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	Enters at 90 degrees from ditch into 900 mm. Exits at 90 deg.
Bank Stability			6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

			Maintena	nce Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
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 (%)	ow) 55.6/7	55.6/77.8 Suffici (%)		ufficiency Rating (Last/Now)		Est. Repl. Yr	2025 Maint. Re		qd. (Y/N)	No
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	s Assistant's Name					
Next Inspection Date	11-May-2014			Previous	Inspection Date	10-Jan-2011				
Inspection Cycle (Default) (months)	21									
Comment										