					Bridg	e Culve	ert Inspec	ction					
Bridge File Nu	mber 77324 -1 Bridge Culvert						Form Type			CULE			
Year Built		1982				Lot No.			4				
Bridge or Town Name GRANDE PRAIR							Inspector Name			Russel Vanderschaaf			
Located Over TRIBUTARY TO BIG MOUNTAI				NOUNTAIN	IN CREEK.		Inspecto			BR CLS B			
8.10.58.18.3.1, W				.1, WATERCRS-ST			Assistant Name						
Located On		40:42 C	1 16.004				Assistant Class						
Water Body Cl					Inspection Date				21-Aug-2012				
Navigabil. Cl./						Data Entry By			Theresa Lacus	sta			
Legal Land Loo	cation	SW SE	C 24 TWP 69 R	RGE 6 W6N	Л		Data Entry Date			24-Sep-2012			
Longitude, Latitude -118:46:34, 54:5				51.50.10				er Name		Eric Carcoux			
Road Authority	/	Alberta	Transportation	(AIT)			Review Date			23-Sep-2012			
Contract Main.	. Area	CMA05						eviewer Na		Steve Pasqua	n		
Clear Roadway	y/Skew	12 / -33	deg. (LHF)				· · ·	eview Date		07-Jan-2013			
AADT/Year		2,640 /	2011 (A)				Follow-L			07 0011 2010			
Road Classific	ation	RAU-21	1.8-110					JP Dy					
Detour Length	(km)	100											
Bridge Culver	rt Inform	nation											
Number of Cul	lverts		1										
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре	l	Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	5500		SP	8	87.2		152X51	5.0	ROUND	
1	D/S		4900	5678		BP	Ę	59.6				RECTANGLE	
Special Featur	res												
Utility Attachm	ents				Uti	lities (L	-ocated a	at)					
Telephone	ients				Uti	lities (L	Gas						
Telephone Power	ients				Uti	lities (L	Gas Municipa	al					
Telephone Power Others	ients				Uti	lities (L	Gas	al					
Telephone Power	ents			Αρ			Gas Municipa Problem	al ı (Y/N) No					
Telephone Power Others	ents						Gas Municipa Problem	al ı (Y/N) No		ion			
Telephone Power Others					proac	:h Road	Gas Municipa Problem <b>/ Emba</b> <b>Explana</b> In sag ci	al (Y/N) No nkment ation of Co urve with lin	<b>ndit</b>	d sight			
Telephone Power Others Remarks	Inment				proac Last	h Road	Gas Municipa Problem <b>J / Embar</b> <b>Explana</b> In sag cu distance	al (Y/N) No nkment ation of Co	ndit niteo	d sight			
Telephone Power Others Remarks Horizontal Alig	Inment		12.000		proac Last 6	h Road Now 6	Gas Municipa Problem <b>J / Embar</b> <b>Explana</b> In sag cu distance	al (Y/N) No <b>nkment</b> <b>ation of Co</b> urve with ling both direc	ndit niteo	d sight			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm	Inment		12.000		proac Last 6	h Road Now 6	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass	al (Y/N) No nkment ation of Co urve with lin both directing SB land 40 m on ea	ndit niteo ions	d sight 5. ide			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt	inment nent th (m)		12.000		prozio Last 6 6	h Road Now 6 6	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass	al (Y/N) No nkment ation of Co urve with lin both directing SB land 40 m on ea	ndit niteo ions	d sight 5.	grassed in.		
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment	nment th (m)	: 5.3)			prozio Last 6 6	h Road Now 6 6	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass	al (Y/N) No nkment ation of Co urve with lin both directing SB land 40 m on ea	ndit niteo ions	d sight 5. ide	grassed in.		
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_	inment nent th (m) _:1) over(m) :	: 5.3)			prozio Last 6 6	h Road Now 6 6	Gas Municipa Problem <b>Explana</b> In sag ct distance No pass Berm of SW ditch	al (Y/N) No nkment ation of Co urve with line both direct ing SB land 40 m on ea h erosion 1 RAIL INST	ndit nited ions st s 5m	d sight 5. ide	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	inment nent th (m) :1) over(m) :		4.0		prozio Last 6 6	h Road Now 6 6	Gas Municipa Problem <b>Explana</b> In sag ct distance No pass Berm of SW ditch	al (Y/N) No nkment ation of Co urve with line both direct ing SB land 40 m on ea h erosion 1 RAIL INST	ndit nited ions st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	inment nent th (m) :1) over(m) :		4.0 Yes		proac Last 6 6 N	h Road Now 6 6 6	Gas Municipa Problem <b>Explana</b> In sag ct distance No pass Berm of SW ditch	al (Y/N) No nkment ation of Co urve with line both direct ing SB land 40 m on ea h erosion 1 RAIL INST	ndit nited ions st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	Inment nent th (m) _:1) over(m) : ) ad / Eml		4.0 Yes	ting	proac Last 6 6 N	h Road Now 6 6 6	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass Berm of SW ditch GUARD Two gull	al (Y/N) No nkment ation of Co urve with line both direct ing SB land 40 m on ea h erosion 1 RAIL INST	ndit nite ions st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI long 400 deep	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	Inment nent th (m) _:1) over(m) : ) ad / Eml		4.0 Yes	ting	prozio Last 6 6 N	h Roac Now 6 6 4 Upstre	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass Berm of SW ditch GUARD Two gull	al (Y/N) No nkment ation of Co urve with line both directing SB land 40 m on ea h erosion 1 RAIL INST lies @ NE	ndit nite ions st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI long 400 deep	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	inment nent th (m) :1) over(m) : ) ad / Eml ponent	bankme	4.0 Yes	ting	DIOE Last 6 6 N 6	h Roac Now 6 6 4 Upstre	Gas Municipa Problem <b>Explana</b> In sag cu distance No pass Berm of SW ditch GUARD Two gull	al (Y/N) No nkment ation of Co urve with line both directing SB land 40 m on ea h erosion 1 RAIL INST lies @ NE	ndit nite ions st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI long 400 deep	E.	getated	
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (	inment nent th (m) :1) over(m) : ) ad / Eml ponent	bankme	4.0 Yes nt General Rat	ting	DIOE Last 6 6 N 6	h Roac Now 6 6 4 Upstre	Gas Municipa Problem <b>Explana</b> In sag ct distance No pass Berm of SW ditch GUARD Two gull am End Explana	al (Y/N) No nkment ation of Co urve with line both direc- ing SB land 40 m on ea h erosion 1 RAIL INST lies @ NE	st s 5m	d sight 5. ide x 1.0m x 8m - ED ON W.SIDI long 400 deep	E. , 500 wideve	-	

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Vingwalls		X	X							
(Shape : )										
Cutoff Wall			6							
Bevel End		N	6							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	400									
Scour Protection		N	6							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Upstream End General Rating		6	6							
		Brid	dqe Cu	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 5500, Type: SP)						
Barrel Last Accessible Date	21-Aug-2012									
Special Features			1							
Special Feature				-						
(Type : )			1	-						
Special Feature										
(Type:)		1	1							
Roof		7	N	Couldn't measure due to silt. 3606mm off silt						
Measured Rise (mm)										
Measured At Ring No.				-						
Sag (mm)	150			Est.sag						
Percent Sag	3									
Sidewall	5000	7	7	Welded patches @ 4:00 ring 17. Perforations at ring 2,3,6,7 approx 50mm, probably from						
Measured Span (mm)	5809			construction.						
Measured At Ring No.	11			-						
Deflection (mm)	158			-						
Percent Deflection	3									
Floor		N	N	Silt covered.						
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)		7	7							
Circumferential Seams	0	7	7							
Separation (mm)	0	7	7							
Longitudinal Seams		7	7							
Total No. of Cracked Rings				-						
Total No. of Rings with Two Cracked Seams				-						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No		1							
Coating		7	7							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77324 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 5500, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		8	8						
Baffle		N	N						
(Туре : )									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7	•					
	1	Bric		lvert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca		(mm):	4900, I						
Barrel Last Accessible Date	24-Nov-2010			Couldn't access due to 1.0m deep water. Shape looked good.					
Special Features									
Special Feature									
(Туре : )			-						
Special Feature									
(Туре : )									
Roof		7	N						
Measured Rise (mm)									
Measured At Ring No.				Est.sag					
Sag (mm)	150			_					
Percent Sag	3								
Sidewall		7	N	10 1 5500					
Measured Span (mm)	4916			10m from 5500 sp					
Measured At Ring No.				est					
Deflection (mm)	16			-					
Percent Deflection	1								
Floor		N	N	Silt/water covered.					
Bulge (mm)				-					
Measured At Ring No.				-					
Abrasion (Y/N)									
Circumferential Seams		7	7						
Separation (mm)	0								
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)	No								
Longitudinal Stagger (Y/N)	No								
Coating		Х	X						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77324 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, S	pan (mm):	4900, I	Rise (mm): 5678, Type: BP)
Camber POS/ZERO/NEG	ZERO			
	Ne			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No		-	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratir		7	N	GR was '7' on 24-Nov-2010
Barrol Extension General Rati	.9	•		
				ream End
Culvert Component			Now	Explanation of Condition
Direction	00110	E		-
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		N	7	
Wingwalla		X	X	
Wingwalls		<b>^</b>	^	
(Shape: )		NI	N	
Cutoff Wall		N	N	
Bevel End		Х	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>250</b> )				1
Scour/Erosion		N	7	
	1			
Beavers (Y/N)	No			
Downstream End General Rati	ng	7	7	
		s	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)		1		
Alignment		7	7	
Bank Stability		5	5	Banks slumping U/S.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	-			
(Fish Compensation Measure 2 :				
Channel General Rating	NONE)	5	7	
Chamler General Natility		5	l '	

				Mainte	enance Rec	ommend	lations						
Inspector Recommendations		Year	ar Inspector Comments			Department Comments					Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	)FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)		77.8/77.8		Sufficiency Rating (Last/Now (%)		ow)	75.6/77.1		t. Repl. Yr	2027	Maint. Re	Maint. Reqd. (Y/N)	
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	I 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Russ		Russel Vanderschaaf F					Previous Assistant's Name						
Next Inspection Date	21-May-2014 Prev					Previous	bus Inspection Date 24-Nov-2010						
Inspection Cycle (Default) (months)	21												
Comment													