		20700 4 5 1 1 0 1			Bridg	e Culve	ert Inspec		OUL F			
	e File Number 06766 -1 Bridge Culvert					Form Type		CULE				
Year Built 1952						Lot No.		3				
Bridge or Town Name LUNDBRECK					Inspector Name			Calvin Roberts				
Located Over	VDRIVER CRE RCRS-ST	RIVER CREEK, 2.12.35.6, S-ST			Inspector Class		BR CLS B					
Located On 507:02 C1 11.652							Assistant Name Assistant Class					
Water Body Cl./Year						Inspection		10-Nov-2012				
Navigabil. Cl./Year								Lauren Korte				
Legal Land Location SW SEC			22 TWP 6 RGE 2 W5M					Data Entry By Lauren Korte Data Entry Date 13-Dec-2012				
Longitude, Latitude -114:12:0		09, 49:29:07				Reviewe		Garry Roberts				
		Transportation	ransportation (AIT)				Date	14-Nov-2012				
Contract Main.	. Area	CMA26					Dept. Re	eviewer Name				
Clear Roadwa	y/Skew	12 / 30	deg. (RHF)					eview Date	27-Dec-2012			
AADT/Year		600 / 20	011 (A)				Follow-L					
Road Classific		RCU-20	09-110				_					
Detour Length	` ′	5										
Bridge Culver		nation										
Number of Cul			1	I					I	T	1	
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape	
1	U/S		4440	2785		RPE	2	26.2	152X51	3.0	ELLIPSE	
1	MAIN		3600	1800		BP		29.6			RECTANGLE	
1	D/S		4440	2785		RPE		30.5	152X51	3.0	ELLIPSE	
Special Featur	res			'								
Special Featur	res Com	ment										
Litility Attackers					Uti	lities (L	Located a	at)				
Utility Attachm		POW			Uti	lities (L		at)				
Telephone		ROW.			Uti	lities (L	Gas					
Telephone Power		ROW.			Uti	lities (L	Gas Municipa	al				
Telephone Power Others		ROW.			Uti	lities (L	Gas	al				
Telephone Power		ROW.		Api			Gas Municipa Problem	al n (Y/N)				
Telephone Power Others		ROW.		Т			Gas Municipa Problem	al n (Y/N)	tion			
Telephone Power Others	West	ROW.		Т	proac	:h Roa	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment				
Telephone Power Others Remarks	West	ROW.		Т	proac Last	h Road Now	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig	West	ROW.	10.300	Т	proac Last 8	ch Road Now	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt	West	ROW.	10.300	Т	proac Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment	ynment nent th (m)	ROW.		Т	proac Last 8	ch Road Now	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ynment nent th (m) _:1)		10.300	Т	proac Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co	ynment nent th (m)		3.0	Т	proac Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (ynment nent th (m)			Т	proac Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co	ynment nent th (m)	: 6.1)	3.0		proac Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co	ynment nent th (m)	: 6.1)	3.0 No		Proac Last 8 6	Now 7 6 7	Gas Municipa Problem d / Embar Explana At bottor	al n (Y/N) nkment ation of Condi				
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Roa	ynment nent th (m) _:1) over(m)	: 6.1)	3.0 No	ing	Proad Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana At botton	al n (Y/N) nkment ation of Condi	South.			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co	ynment nent th (m) _:1) over(m)	: 6.1)	3.0 No	ing	Proac Last 8 6	Now 7 6 7	Gas Municipa Problem d / Embar Explana At botton	al n (Y/N) nkment ation of Condi	South.			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Road Culvert Comp	mment ment th (m) _:1) over(m) ad / Emi	: 6.1) bankme	3.0 No	ing	proate Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana At botton am End Explana	al n (Y/N) nkment ation of Condi	South.			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (mment ment th (m) _:1) over(m) ad / Emi	: 6.1) bankme	3.0 No nt General Rat	ing	proate Last 8 6	Now 7 6	Gas Municipa Problem d / Embar Explana At botton am End Explana	al n (Y/N) nkment ation of Condi	South.			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Roa Culvert Comp Direction End Treatment Others, None)	mment ment th (m) _:1) over(m) ad / Emi	: 6.1) bankme	3.0 No nt General Rat	ing	Proac Last 8 6	Now 7 6 7 Upstre	Gas Municipa Problem d / Embar Explana At botton am End Explana	al n (Y/N) nkment ation of Condi	South.			
Telephone Power Others Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Road Culvert Comp Direction End Treatment Others, None) Headwall	mment ment th (m) _:1) over(m) ad / Emi	: 6.1) bankme	3.0 No nt General Rat	ing	Proace Last 8 6 7 6 Last W	h Road Now 7 6 7	Gas Municipa Problem d / Embar Explana At botton am End Explana	al n (Y/N) nkment ation of Condi	South.			

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
			-	
Bevel End	I	7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	Steel grate across the opening of the pipe is displaced. Heavy build up of drift in bevel.
(Type : RIP RAP)				- leavy build up of drift in bevel.
(Avg. Rock Size(mm): 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			CSP in the SW corner from the road ditch.
Upstream End General Rating		7	7	
			1	
Culvert Covers				Ivert Barrel
Culvert Component	tion Code: U/O O			Explanation of Condition
(Pipe # : 1, Primary Span, Loca		pan (mm):	4440,	
Barrel Last Accessible Date	10-Nov-2012			Both U/S and D/S RPRE.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	6	Est.
Measured Rise (mm)	2660			Welded patches on roof.
Measured At Ring No.	4			
Sag (mm)	125			
Percent Sag	4			
Sidewall	•	6	6	
Measured Span (mm)	4500	0		
Measured At Ring No.	4			
Deflection (mm)	60			
Percent Deflection	1			
	·	4	N.I.	800mm rock on floor.
Floor	0	4	N	OUUTIITI TOCK OIT HOUT.
Bulge (mm)	0			-
Measured At Ring No.	Vac			-
Abrasion (Y/N)	Yes		_	
Circumferential Seams		X	7	-
Separation (mm)	0			
Longitudinal Seams		X	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				_
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		Х	4	Medium corrosion with isolated pitting @ North sidewall.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid		vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: U/S, Span	(mm):	4440, F	Rise (mm): 2785, Type: RPE)
Ponding (Y/N)	No			
(Pipe #: 1, Primary Span, Location Code: U/S, Spa		6	5	
Baffle		Х	5	Steel H-iron, only visible @ D/S.
(Type : SPOILER)				
Waterway Adequacy		5	4	(6m high in flood of 95) 20030219
Icing (Y/N)	No			
	No			60% drift blockage at U/S entrance.
	Yes			
	g	6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
·	tion Code: MAIN, Spa			
	1			Concrete box, South cell.
Special Features				
				North cell.
		7	7	
	1800			
		7	7	
	1800	-		
. , ,				
` '				
		5	4	Some deterioration of the floor- minor.
	0			Some rebar showing.
Abrasion (Y/N)	No			
Circumferential Seams	110	Х	X	
Separation (mm)	0			
Longitudinal Seams		Х	Х	
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)				
Camber POS/ZERO/NEG	ZERO			
33.11301 1 33/221(3/1423				

				vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		Brig	de Cul	vert Barrel
Culvert Component				Explanation of Condition
	tion Code: MAIN, Spa			, Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	10-Nov-2012	,		Concrete box- North cell.
0				
Special Features				
Special Feature				
(Type :) Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1800	1	/	
Measured At Ring No.	1600			
Sag (mm)				
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	1800	,		
Measured At Ring No.	1000			
Deflection (mm)				
Percent Deflection				
Floor		7	4	Some deteriorating of floor, minor.
Bulge (mm)	0	•		Some rebar showing.
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		7	Х	
Separation (mm)			-	
Longitudinal Seams		7	Х	
Total No. of Cracked Rings	0		-	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		6	Х	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel								
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)				
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		5	8					
(Type:)								
Waterway Adequacy		5	6	(6m high in floor of 95)20030219				
Icing (Y/N)	No			Drift in the u/s end at the entrance to box cells.				
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		Е		East.				
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		7	7					
Collar		7	7					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		6	N	Buried.				
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	7					
		s	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		6	6					
Bank Stability		6	6					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes			Large drift at U/S.				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

		Mainten	ance Recommen	dations					
Inspector Recommendations	Year	Inspector Comments	ande Recommen	Department Comn	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	1.55						ger rem		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2013	At U/S Sp- reset gate, remov	/e drift.						
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 66.7/66	66.7/66.7 Sufficiency Rating (Last/N		64.8/61.6	Est. Repl. Yr	2045	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	10-Feb-2016		Previous	Inspection Date	12-Sep-2009				
Inspection Cycle (Default) (months)	39								
Comment									