					Brida	e Culve	rt Inspection					
	Bridge File Number 00450 -1 Bridge Culvert			~~~~~		Form Type		CULE				
	Year Built 1950						Lot No.		4			
Bridge or Town Name LUNDBRECK							Inspector Nam	ne	Garry Roberts			
Located Over ROCK CREEK, 2.12.37.6, WAT				7.6. WATI	TERCRS-ST		Inspector Class		BR CLS A			
Located On 3:04 C1 6.433						Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Y							Inspection Date		29-Nov-2011			
Legal Land Location NE SEC 20 TWP 7 RGE 2 W5M				GE 2 W5M	Л		Data Entry By		Alyssa Boynto	on		
			50, 49:34:54		·		Data Entry Date		09-Jan-2012			
			ransportation	(AIT)			Reviewer Name		Tom Carey			
Contract Main. Area CMA26				(,)			Review Date		08-Dec-2011			
Clear Roadway		13 /							Tim Davies			
ADT/Year		4,740 / 2	010 (A)				Dept. Review Date		10-Jan-2012			
Road Classifica	ation	RAU-213	. ,				Follow-Up By	Duto				
Detour Length (25	5 120				гопом-Ор Ву					
Bridge Culvert									1			
Number of Culv		1										
	Barrel		Span	Rise (or	Dia.)	Туре	Length	١	Corr. Profile	PI./Slab Thickness	Shape	
 	U/S	-		3050		SP	21.3		152X51		ROUND	
	MAIN	3	3050	2290		AP	67.1				ARCH	
I	D/S	-		3050		SP	40.8		152X51		ROUND	
Special Feature	es	5	SHOTCRETE	BEAM			!		1	-		
Special Feature	es Comr	nent										
	ĺ				Uti	ilities (L	ocated at)					
Jtility Attachme												
Felephone	South						Gas					
'ower	3 wire	Power 3 wire N. ditch 20 m from c.I										
Others							Municipal					
	Fibre	optics @					Municipal Problem (Y/N)	No				
Remarks	Fibre	optics @					Problem (Y/N)					
	Fibre	optics @		Ar			Problem (Y/N)	nt				
Remarks		optics @		Ar	Last	Now	Problem (Y/N) / Embankmer Explanation c	nt of Condi	tion			
Remarks Horizontal Align	nment	optics @		Ar	Last 6	Now 6	Problem (Y/N) I / Embankmen Explanation c Curve to East.	nt of Condi	tion			
Remarks	nment	optics @		Ag	Last	Now	Problem (Y/N) / Embankmer Explanation c	nt of Condi	tion			
Remarks Horizontal Align	nment ent	optics @		Ap	Last 6	Now 6	Problem (Y/N) / Embankment Explanation of Curve to East. Hill to west.	nt of Condi	tion			
Remarks Horizontal Align /ertical Alignme Roadway Width	nment ent	optics @	N R/W	Ap	Last 6 6	Now 6 6	Problem (Y/N) I Embankment Explanation of Curve to East. Hill to west. No passing.	nt of Condi				
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment	nment ent n (m)	optics @	N R/W	Ar	Last 6	Now 6	Problem (Y/N) / Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides.	nt of Condi nd finish	es 2:1 both			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1)		N R/W	Α,	Last 6 6	Now 6 6	Problem (Y/N) / Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a	nt of Condi nd finish	es 2:1 both			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment	nment ent n (m) _:1) ver(m) :		N R/W		Last 6 6	Now 6 6	Problem (Y/N) / Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides.	nt of Condi nd finish	es 2:1 both			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope ((Height of Cov Guardrail (Y/N)	nment ent n (m) _:1) ver(m) :	22)	N R/W 13.000 2.0 Yes		Last 6 6 5	Now 6 6	Problem (Y/N) / Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides.	nt of Condi nd finish	es 2:1 both			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope ((Height of Cov	nment ent n (m) _:1) ver(m) :	22)	N R/W 13.000 2.0 Yes		Last 6 6 5 5 6	Now 6 5	Problem (Y/N) / Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erco	nt of Condi nd finish	es 2:1 both			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) :	22)	N R/W 13.000 2.0 Yes		Last 6 6 5 5	Now 6 6 5 5	Problem (Y/N) I/ Embankmen Explanation c Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erc	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) :	22)	N R/W 13.000 2.0 Yes		Last 6 6 5 5 6 6	Now 6 6 5 5	Problem (Y/N) I/ Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erce am End Explanation of	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) : nd / Emt	22) Dankmen	N R/W 13.000 2.0 Yes t General Rat		Last 6 6 5 5	Now 6 6 5 5	Problem (Y/N) I/ Embankmen Explanation c Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erc	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) : nd / Emt	22) Dankmen	N R/W 13.000 2.0 Yes t General Rat		Last 6 6 5 5 6 6	Now 6 6 5 5	Problem (Y/N) I/ Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erce am End Explanation of	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) : nd / Emt	22) Dankmen	N R/W 13.000 2.0 Yes t General Rat		Last 6 6 5 5 6 Last N	Now 6 6 5 5 Vpstre Now	Problem (Y/N) I/ Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erce am End Explanation of	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) : nd / Emt	22) Dankmen	N R/W 13.000 2.0 Yes t General Rat		Last 6 6 5 5 6 Last N	Now 6 6 6 5 5 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Problem (Y/N) I/ Embankmen Explanation of Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erce am End Explanation of	nt of Condi nd finish osion ditc	es 2:1 both h at NW			
Remarks Horizontal Align /ertical Alignme Roadway Width Embankment Sideslope (nment ent n (m) _:1) ver(m) :	22)	N R/W 13.000 2.0 Yes		Last 6 6 5 5	Now 6 6 5 5	Problem (Y/N) I/ Embankmen Explanation c Curve to East. Hill to west. No passing. Starts at 3:1 a sides. Rock lined erc	nt of Condi nd finish osion ditc	es 2:1 both h at NW			

Alberta Transportation

Upstream End								
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		Х	X					
Bevel End		4 5		Many bolts missing or loose.				
Heaving (mm) 100				Bevel is twisted and pushed in 150mm along North side- still functional				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	300							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		4	5					
		Brid	dge Cu	lvert Barrel				
Culvert Component		1		Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):		Rise (mm): 3050, Type: SP)				
Barrel Last Accessible Date	29-Nov-2011			SPCSP extension				
Special Features								
Special Feature		7	7	Shotcrete beam in U/S rings 4-9 at West sidewall and rings 13-22 West sidewall at D/S				
(Type : SHOTCRETE BEAM)				vvest sidewali at D/S				
Special Feature								
(Type:)		,						
Roof		5	5	Localized roof bulges in rings 7-8				
Measured Rise (mm)	2883							
Measured At Ring No.	6							
Sag (mm)	167							
Percent Sag	5							
Sidewall		5	5	Shotcrete lines west walls of both ends and extends 10m from				
Measured Span (mm)	5134			primary barrel and is 2.5m high. Some corrosion on floor d/s end Slight cusping of East sidewall in rings 6-7				
Measured At Ring No.	3							
Deflection (mm)	104							
Percent Deflection	3							
Floor		5	5	West floor seam heaving at rings 17-20- approx 70mm				
Bulge (mm)	70							
Measured At Ring No.	18							
Abrasion (Y/N)	Yes							
Circumferential Seams		5	5					
Separation (mm)	0							
Longitudinal Seams		5	5					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams				Seam cusping in Ring 6-7 1N stagger				
Min. Remaining Steel 0 Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating		5	5	Minor corrosion				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

00450 -1 Bridge Culvert

alls near D/S end

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

00450 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 3050), Rise (mm): 2290, Type: AP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type:)			Λ	
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			-
Drift (Y/N)	No			-
Barrel General Rating		6	6	
5				
Culvert Component			ownsti Now	Explanation of Condition
Culvert Component Direction		S	NOW	SPCSP extension. South (Just u/s of bevel, sound is hollow
End Treatment (Concrete, Steel, Others, None)	STEEL	5		indicating absence of backfill for approximately 5 m u/s of bevel connection) no change) 2004/08/07
Headwall	<u> </u>	X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	Х	
Bevel End		4	4	Bevel pushed in 500 mm at sides
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			_
Above/Below (mm)	500		-	
Scour Protection		5	5	_
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 450)			1	
Scour/Erosion		5	5	Scour hole 6x7mx5m-rock lined
Beavers (Y/N)	No			
Downstream End General Ratin	ng	4	4	
		s	structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp bend just d/s
Bank Stability		5	5	Some bank erosion at SW. 8m longx1mx1m
HWM (m below Top of Culvert)	2.0			No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			D/S
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

		Maintenance Recomm	nendations				
Inspector Recommendations	Year	Inspector Comments	Department Comme	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/No (%)	ow) 55.6/55	.6 Sufficiency Rating (Last/Now) (%)	54.7/55.7 E	st. Repl. Yr 2030	0 Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts	Prev	ous Assistant's Name				
Next Inspection Date	29-Aug-2013	Prev	ous Inspection Date	18-May-2010			
	29-Aug-2013	1100	oue mepeetien Bate				
· ·	29-Aug-2013 21						