74551 -1 Bridge Culvert

					D							
Dridge File Number 74554 4 B : 1 C 1					Bridg	e Culve	vert Inspection			01115		
Bridge File Number 74551 -1 Bridge Culvert							Form Type		CULE			
Year Built 1956						Lot No.			4			
Bridge or Town Name ALDERSYDE							Inspector Name		Jon Davies			
Located Over TRIBU 2.13.2		2.13.27.	13 27 3 \MATEDODQ_QT				Inspector Class		BR CLS B			
			1 13 08/·2·12 R1 13 083				Assistant Name Assistant Class					
Water Body Cl.	/Year								25-Oct-2011			
Navigabil. Cl./Year							Data Entry By		Alyssa Boynton			
Legal Land Location N		NW SE	C 7 TWP 20 R	3E 28 W4	-M		Data Entry Date		25-Nov-2011			
Longitude, Latitude -1		-113:52:	-113·52·43 50·41·06					Reviewer Name		Garry Roberts		
Road Authority A		Alberta	Transportation	(AIT)			Review Date		08-Nov-2011			
		CMA27					Dept. Reviewer Name					
Clear Roadway/Skew		29.7 / -9	deg. (LHF)				Dept. Review Date		01-Dec-2011			
·		15,040 /	2010 (A)				Follow			0. 200 20		
Road Classifica	ation	RFD-41	2.4-130				I dilow-op by					
Detour Length		1										
Bridge Culvert												
Number of Culv	verts		1	I				T		I	1	
Pipe #	Barrel		Span	Rise (or	e (or Dia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN		1524	2136		BP		73.1				RECTANGLE
1	D/S	- 2438		2438		SP		53.1		152X51	4.0	ROUND
Special Feature	Special Features BARREL ELBOW											
Special Feature	es Comi	ment										
Living Asset					Ut	ilities (L	_ocated	at)				
Utility Attachments							Gas					
Telephone W. of trooks, 2 wire						Municipal						
Power W. of tracks - 3 wire Others 1 wire @ east					Problem (Y/N) No							
Remarks	1 WIIE	e easi					Flobie	III (171 N)	INU			
Remarks				Δr	nnroa	ch Road	d / Emb	ankment				
					Last	Now		ation of	Condi	tion		
Horizontal Alignment			7	7	Curve to north 300m.							
Vertical Alignment					9							
Roadway Width (m)		29.700										
						D/C Foot amb only south			t slope stability problem. Slump is 10m wide x p. Does not impact the service road.			
Embankment				5	4	15m long and 1m deer						
		3.0										
(Height of Co		. 8)	Voc									
Guardrail (Y/N) Yes												
Approach Road / Embankment General Rating			7	7								
						Unctre	am End					
Culvert Compo	onent				Last	Now			Condi	tion		
Direction			W	1.1044	Explanation of Condit West end.							
End Treatment Others, None)	(Concre	ete, Stee	I, CONCRETE				Dimensions of box cell 1828 x 2438.					
Headwall	·				5	5	Crack Spall a	Crack @ top of headwall corner-6mm wide still functional Spall associated with crack.			ctional	
Collar					Х	Х						
Wingwalls					6	6	Cracking (Vertical) @ Center of each wingwall					
(Shape : FLA	DE/						1					

0 BELOW 200	Last N X 6	Now N X	Explanation of Condition Water and silt covered.					
BELOW 200	6 6	N X						
BELOW 200	6	6						
BELOW 200	6	6						
BELOW 200	6							
200 No	6							
No	6							
	6							
		6						
		6						
		6						
	5	5						
	Brio	dge Cu	Ilvert Barrel					
			Explanation of Condition					
ation Code: MAIN,			1, Rise (mm): 2136, Type: BP)					
25-Oct-2011								
			Main D/S span connected with 2m long transition section of cip box culver 2.2m sp x 2.6m rise					
Special Feature			SPCSP liner in original concrete box - 1524 x 2136					
	8	7	Unable to verify due to uneven concrete floor.					
2136			EST. General shape of liner is good.					
6								
0								
1								
	8	7						
1510								
6			Inward.					
14								
1								
	N	N	Longitudinal angle iron and unever and rough concrete floor.					
	8	7						
0								
	X	7						
0	, A		-					
			SPCSP liner.					
			-					
0								
Yes								
No								
	6	6	Soil staining at upper seams and water seepage rust staining at					
Yes			lower bolt holes.					
Yes								
ZERO								
	2136 6 0 1 1510 6 14 1 1 0 0 0 0 0 Ves No	8 2136 6 0 1 1 8 1510 6 14 1 N N N N N N N N N N N N N N N N N	8 7 2136 6 0 0 1 8 7 1510 6 14 1 N N N N N N N N					

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		Drie	dao Cul	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Codo: MAIN St			•
	No	Jan (IIIIII	<i>)</i> . 1324	, ruse (min). 2130, Type. Dr /
Ponding (Y/N)	INO			
Fish Passage Adequacy		7	7	
Baffle			X	
(Type:)		X	, ,	
Waterway Adequacy		7	7	
Icing (Y/N)	No	•	'	-
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	
Barrer General Rating				
Outroot Common and				Vert Barrel
Culvert Component	otion Code: D/C Core		Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loc		ıı (mm):	, 1	Rise (mm): 2438, Type: SP)
Barrel Last Accessible Date	25-Oct-2011			
Special Features				
Special Feature			7	2 elbows in 2438 SPCSP extension
(Type : BARREL ELBOW)				
Special Feature				
(Type:)				
Roof		8	7	
Measured Rise (mm)	2507			
Measured At Ring No. 9				Upward.
Sag (mm)	69			
Percent Sag	3			
Sidewall		8	7	
Measured Span (mm)	2390			
Measured At Ring No.	9			
Deflection (mm)	48			Inward.
Percent Deflection	2			
Floor		N	7	Minor corrosion on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	7	
Separation (mm)	0			
Longitudinal Seams		6	6	Bolts tipped and 4mm nesting gap at sidewall seams near D/S elbow
Total No. of Cracked Rings	0			No stagger D/S of elbow. 1N stagger in main barrel
Total No. of Rings with Two Cracked Seams	0			Tro stagger D/O or elbow. The stagger in main batter
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Floor coating showing signs of minor corrosion
Corrosion By Soil (Y/N)	Yes			Soil corrosion at upper seams
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Bric	lge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: D/S, Span	(mm):	, F	Rise (mm): 2438, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	N	Water covered.
Bevel End		6	5	BENT INWARD 100 mm @ NORTH- Small tear in South side.
Heaving (mm)	150			Inward bent at North from embankment slump.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			ı	
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	N	5	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		6	6	RxR culvert 20m U/S
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :				
Channel General Rating		6	6	

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		Maintenan	ce Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Con	nments	Target Ye	ar Est. Cost	Cat #
SHOTCRETE REPAIRS		<u> </u>					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
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/No. (%)	ow) 77.8/77	7.8 Sufficiency Rating (I (%)	Last/Now) 71.0/71.0	Est. Repl. Yr	2036 Maint.	Reqd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated T	otal 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
	25-Jul-2013		Previous Inspection Date	10-Feb-2010			
Next Inspection Date			Previous Inspection Date	10-Feb-2010)		