				Bridg	e Culve	ert Inspe	ection						
mber						Form Type			CUL1				
	1964					Lot No.			4				
Name	DUCHESS					Inspector Name			Tom Carey				
	EID - ONE TREE CK, WATERCRS-IC								BR CLS A				
	544:02 C1 8.282					Assistant Name			-				
./Year						Assistant Class							
/ear						Inspection Date			15-Feb-2010				
cation	SE SEC	15 TWP 20 R	GE 14 W4	M					Kelsey Robert	S			
tude	-111:51:	13, 50:41:18				Data E	ntry Date		-				
,	Alberta 7	Transportation	(AIT)			Reviewer Name							
Area	CMA23				Review Date			23-Feb-2010					
/Skew	8.5 /					Dept. Reviewer Name							
	1,520/2	2008 (A)			Dept. Review Date				08-Mar-2010				
ation	RCU-20	9-110											
(km)	3												
	ation												
verts		1											
Barrel	5	Span	Rise (or D	ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
MAIN		1738	1920		SPE		40.8		152X51	2.8,2.8,2.8	ELLIPSE		
es													
es Comr	ment												
				Uti	lities (L	ocated	at)						
	• •												
north													
	I						Problem (Y/N) NO						
						1		Condit	tion				
Horizontal Alignment			L										
Vertical Alignment					In sag curve								
Roadway Width (m) 8.500			4	5									
mbankment				N	N	Snow							
					11								
	· 5 8)	2.1				-							
)	. 5.0)	No											
ad / Emł	bankmen	t General Rat	ing	4	5								
					Upstre	am End							
onent			L		Now	1		Condit	tion				
						South							
(Concre	ete, Steel	, STEEL											
				Х	X								
Collar				Х	Х								
	Wingwalls					1							
				Х	Х								
				Х	X								
		1964     Name   DUCHE     EID - ON     544:02 0     /Year   544:02 0     /rear   SE SEC     tude   -111:51:     Area   CMA23     //Skew   8.5 /     at Information   P     werts   9     MAIN   9     es   1,520 / 2     at Information   9     werts   9     South side   9     north side, 3-w   9     anment   9     ant   9     ad / Embankmer   9     ad / Embankmer   9	1964     Name   DUCHESS     EID - ONE TREE CK, Y     544:02 C1 8.282     /Year     ('ear     cation   SE SEC 15 TWP 20 R     tude   -111:51:13, 50:41:18     Alberta Transportation     Area   CMA23     //Skew   8.5 /     1,520 / 2008 (A)     ation   RCU-209-110     (km)   3     thformation   RCU-209-110     (km)   3     thormation   Span     MAIN   1738     es   south side     north side, 3-wire   anoth side     anoth side   anoth side     north side, 3-wire   anoth side     anoth side   anoth side     anoth side	71787 - 1 Bridge Culvert19641964NameDUCHESSEID - ONE TREE CK, WATERCR544:02 C1 8.282/Year(earStationSE SEC 15 TWP 20 RGE 14 W4Itude-111:51:13, 50:41:18Alberta Transportation (AIT)AreaCMA23//Skew8.5 /1,520 / 2008 (A)ationRCU-209-110(km)3t InformationRCU-209-110(km)3t InformationRise (or DMAIN173817381920esationsouth sidenorth side, 3-wirenorth side, 3-wirein the side, 3-wireannent2.1	mber 71787 - 1 Bridge Culvert 1964 1964 Sevent Sevent	mber 71787 - 1 Bridge Culvert 1964 1964 1964 1964 EID - ONE TREE CK, WATERCRS-IC EID - ONE TREE CK, WATERCRS-IC 544:02 CI 8.282 /Year 544:02 CI 8.282 /Year 544:02 CI 8.282 /Year 544:02 CI 8.282 /Year 1055 SE SEC 15 TWP 20 RGE 14 W4M 111:51:13, 50:41:18 	T1787 - 1 Bridge CulvertForm T19641964Lot No.1964ONAREDUCHESSLot No.EID - ONE TREE CK, WATERCRS-ICInspect544:02 C1 8.282Assista('ear	1964     Lot No.       n Name     DUCHESS     Inspector Name       EID - ONE TREE CK, WATERCRS-IC     Inspector Class       544:02 C1 8.282     Assistant Name       /Year     Assistant Class       rear     Inspector Class       setsion     SE SEC 15 TWP 20 RGE 14 W4M     Data Entry By       tude     -111:51:13, 50:41:18     Data Entry Date       Alberta Transportation (AIT)     Review Name     Review Date       Area     CMA23     Dept. Review Date       //Skew     8.5 /     Dept. Review Date       1.520 / 2008 (A)     Dept. Review Date     Follow-Up By       (m)     3     Tass     1920     SPE     40.8       es     1     Span     Rise (or Dia.)     Type     Length       MAIN     1738     1920     SPE     40.8       es     South side     Gas     Municipal       north side, 3-wire     Municipal     Problem (Y/N)     Sagure       innent     7     7     Farm ent 20m Vin In sag Curve       h (m)     8.500	mber71787 - 1 Bridge CulvertForm Type19641964Lot No.1964UCHESSInspector NameInspector NameEID - ONE TREE CK, WATERCRS-ICInspector NameAssistant Class544:02 C1 8.282	mber71787 - 1 Bridge CulvertForm TypeCUL11964UC HE 3Lot No.41984Lot No.Tom CareyED O NOE TREE CK, WATERCRS-ICInspector ClassBR CLS A544:02 CI 8.282Assistant ClassTom Careyrear544:02 CI 8.282Assistant ClassTom CareyrearSE SEC 15 TWP 20 RGE 14 W4MData Entry Date03-Mar-2010rearAlberta Transportation (AIT)TypeReviewer NameGary RobertsAreaCMA23Versewer NameGary Roberts23-Feb-2010titoAlberta Transportation (AIT)Dept. Reviewer NameGary RobertsAreaCMA23Versewer NameGary Roberts1,520 / 2008 (A)Versewer NameGary Roberts1,520 / 2008 (A)Dept. Reviewer NameGary Roberts1,520 / 2008 (A)SPDept. Reviewer NameGary Roberts1,520 / 2008 (A)SPDept. Reviewer NameGary Roberts1,520 / 2008 (A)SPLengthGory Robertsmatch1,520 / 2008 (A)SPLengthGory Roberts1,520 / 2008 (A)SPVersewer NameGary RobertsationRCU-2004 (A)SPLengthGory RobertsMare Server1,520 / 2008 (A)SPVersewer NameGary Robertsmatch1,520 / 2008 (A)SPLengthGory RobertsMare ServerSpanRise (or Dia.)TypeLengthGory RobertsMare ServerSpanSisterS	mber 11787 · 1 Bridge Culvert Form Type CUL1   1964 Lot No. 4   1964 Lot No. 4   EID - ONE TREE CK, WATERCRS·IC Inspector Name BR CLS A   544:02 C 1 8.282 Assistant Name Assistant Class BR CLS A   rear Inspector Name Galas 15-Feb-2010   rear Inspector Name Galas Selecy Name   rear Assistant Class Data Entry Date 03-Mar-2010   rear Attain Transportation (ATT) Review Palae 23-Feb-2010   rear Review Date 23-Feb-2010 Os-Mar-2010   rear Review Date 08-Mar-2010 Os-Mar-2010   rear Review Date 08-Mar-2010 Os-Mar-2010   rear Review Date 15.27 E-EE Os-Mar-2010   rear Review Date 15.27 E-EE Os-Mar-2010   rear Rise (or Dia.) Type Length Corr. Profile Pi/Slab   rear See os owner I See os owner See over		

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	N	(Pitting rust						
Heaving (mm)	200			Missing bolts @ west seam) Ice and snow						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	100									
Scour Protection		N	N	snow covered						
(Type : )										
(Avg. Rock Size (mm) : )										
Scour/Erosion		N	N	snow covered						
	Γ									
Beavers (Y/N)	No									
Upstream End General Rating		5	N							
				lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>	): 1738	, Rise (mm): 1920, Type: SPE)						
Barrel Last Accessible Date	15-Feb-2010									
Special Features										
Special Feature				Ice 600mm from roof @ midpsan & 1000mm from ends.						
(Type : )				Entered 1/3 of way in @ both ends- shape is good.						
Special Feature										
(Type : )										
Roof		6	6	From past measurements						
Measured Rise (mm)		0	0	Ice						
Measured At Ring No.										
	00									
Sag (mm)	88									
Percent Sag	4		-							
Sidewall	1700	7	7	Shape looks good Ice too deep to measure.						
Measured Span (mm)	1760			Past measurements.						
Measured At Ring No.	4			-						
Deflection (mm)	22									
Percent Deflection	1									
Floor		N	N	(Pitting rust in floor & sidewall) Ice covered						
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)	No		-							
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		6	6	(some minor tipping)						
Total No. of Cracked Rings	0			-						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		4	N	(Some pitting on floor & sidewalls &						
Corrosion By Soil (Y/N)	Yes			water) Ice						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	Yes			1.2m of ice @ midspan						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	): 1738	3, Rise (mm): 1920, Type: SPE)				
Fish Passage Adequacy		8	8					
Baffle			Х					
(Type:)								
Waterway Adequacy		5	5	(Grass in fence above culvert @ u/s)				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating								
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1	N		North				
End Treatment (Concrete, Steel, Others, None)	nd Treatment (Concrete, Steel, STEEL							
Headwall		X	Х					
Collar	Collar		Х					
Wingwalls		X	X					
(Shape : )								
Cutoff Wall		X	X					
Bevel End		5	N					
Heaving (mm)	100			Gome pitting)				
Invert Above/Below Stream Bed BELOW								
Above/Below (mm) 100								
Scour Protection		N	N	snow covered				
(Туре : )								
(Avg. Rock Size (mm) : )								
Scour/Erosion			N	snow covered				
Beavers (Y/N)	No							
Downstream End General Rati	Downstream End General Rating		N					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7	Minor cut banks				
Bank Stability			N	(Grass in fence @ u/s) Snow				
-		5						
HWM (m below Top of Culvert)				-				
Drift (Y/N) Yes								
Channel Bottom DEGRADING Degrading/Aggrading				Snow				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		5	5					

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments	Department C	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	77.8/66.	7 Sufficiency Rating (Last/Now) (%)	55.2/59.4	<b>55.2/59.4</b> Es		2020	Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection				Department Comments							
Maintenance Reviewed By							E	Estimated Total	I 0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tim Davies Pre-			vious Assistant's Nan	ne							
Next Inspection Date	15-May	/-2013	Prev	vious Inspection Date	Inspection Date 21-Feb-2007						
Inspection Cycle (Default) (months) 39											
Comment											