			Rri	dae	Culve	art Inena	ection					
Bridge File Number	71982 -1 Bridge Culvert			Bridge Culvert Inspection Form Type			CUL1					
Year Built	1982 -1 Bridge Culvert					Lot No.		2				
	+	PORO.										
Bridge or Town Name					ED.		Inspector Name		Shane Hall			
Located Over	ed Over TRIBUTARY TO MCLEOD RIV 8.11.107.35, WATERCRS-ST				∈K, 		Inspector Class Assistant Name		BR CLS A			
Located On	On 16:04 R1 23.963;16:04 L1 23.99				51							
Water Body Cl./Year	Cl./Year						Assistant Class Inspection Date		14 Aug 2012			
Navigabil. Cl./Year					Data Entry By		11-Aug-2012					
Legal Land Location	SE SEC	C 6 TWP 53 R	GE 20 W5M									
Longitude, Latitude	-116:56					a Entry Date 28-Aug-2012						
Road Authority	Alberta Transportation (AIT)				Reviewer Nam			;	Eric Carcoux			
Contract Main. Area	CMA13		Review Date			NI	27-Aug-2012					
Clear Roadway/Skew	25.2 / -2	23 deg. (LHF)				Dept. Reviewer Name						
AADT/Year		2011 (A)		Dept. Review Date		ate	30-Aug-2012					
Road Classification		12.4-120				Follow-Up By						
Detour Length (km)	1											
Bridge Culvert Infori	nation											
Number of Culverts		1										
Pipe # Barrel		Span	Rise (or Dia.	ia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 MAIN		2905	3203		SPE		173.2		152X51	3.0	ELLIPSE	
Special Features		BARREL ELE			<u> </u>	170.2				10.0		
Special Features Con		<i>D,</i>	7011									
opeciai i catales con	iiiiciit											
				Util	ities (L	ocated	at)					
Utility Attachments												
Telephone Nortl	ı r/w					Gas		30 m	U/S.			
Power						Municipal						
Others			Problem (		m (Y/N)	No						
Remarks File t	ag U/S, N	North.										
			Appro	oac	h Roac	d / Emba	ankment					
			Las	st	Now	Explan	ation of	Condi	ion			
Horizontal Alignment			7	7	7	Between curves						
Vertical Alignment							5					
vertical Alignment			7	7	7	Rise to		i				
Vertical Alignment Roadway Width (m)		25.200	7	7	7	Rise to						
		25.200		7	4	Rise to EBL 12 Erosion	East 2.6; WBL on gullies \$	12.6 SE and	SW, fabric and	rock placed. §	SW appears	
Roadway Width (m)		25.200				EBL 12 Erosior	East 2.6; WBL a gullies \$ & vegetat	12.6 SE and ted. Gu	lly @ NE.			
Roadway Width (m) Embankment	: 15)					Erosior stable of stable-	East 2.6; WBL a gullies \$ & vegetar ep, 2m wi but not at	12.6 SE and ted. Gu de, 40r	lly @ NE. n long and stab roadway emba	le. SE ditch er	osion, not	
Roadway Width (m)  Embankment  Sideslope (:1)	: 15)					Erosior stable of stable-	East 2.6; WBL a gullies \$ & vegetates pp, 2m wi	12.6 SE and ted. Gu de, 40r	lly @ NE. n long and stab roadway emba	le. SE ditch er	osion, not	
Roadway Width (m)  Embankment  Sideslope (:1)	: 15)					EBL 12 Erosior stable of the stable deep x	East 2.6; WBL a gullies S & vegetate p, 2m without not at 40m long	12.6 SE and ted. Gu de, 40r ffecting g - phot	lly @ NE. n long and stab roadway emba	le. SE ditch er nments. Appro	osion, not	
Roadway Width (m)  Embankment  Sideslope (:1)	: 15)					EBL 12  Erosion stable of the stable deep x  North e	East 2.6; WBL a gullies \$ \$ vegetate, 2m without not at 40m long embankmide -2 sp	12.6 SE and ted. Guide, 40rffecting g - photent rutt	lly @ NE. n long and stab roadway emba o.	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)		3.0				EBL 12  Erosion stable of the stable deep x  North e	East 2.6; WBL a gullies \$ \$ vegetate, 2m without not at 40m long embankmide -2 sp	12.6 SE and ted. Guide, 40rffecting g - photent rutt	Ily @ NE. In long and stab roadway emba o.  eed from vehicle & & 2 displaced	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)		3.0		7	7	Erosion stable of the stable deep x North & Souths 1 split	East 2.6; WBL a gullies \$ & vegetatep, 2m with a total 40m long embankm ide -2 sp post and	12.6 SE and ted. Guide, 40rffecting g - photent rutt	Ily @ NE. In long and stab roadway emba o.  eed from vehicle & & 2 displaced	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / Em		3.0	ating 7	7	4 7 Jpstrea	EBL 12 Erosior stable of the stable deep x North of Souths 1 split	East 2.6; WBL a gullies \$ \$ vegetatep, 2m with year year year year year year year year	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 sections	Ily @ NE. In long and stab roadway emba o.  The ded from vehicle S & 2 displaced ons on W-bean	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / Em		3.0	ating 7	7	7	EBL 12 Erosior stable of the stable deep x North of Souths 1 split	East 2.6; WBL a gullies \$ & vegetatep, 2m with a total 40m long embankm ide -2 sp post and	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 sections	Ily @ NE. In long and stab roadway emba o.  The ded from vehicle S & 2 displaced ons on W-bean	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / En  Culvert Component Direction End Treatment (Conc	nbankme	3.0  Yes  nt General Ra	ating 7	7	4 7 Jpstrea	EBL 12 Erosior stable of the stable deep x North of Souths 1 split	East 2.6; WBL a gullies \$ \$ vegetatep, 2m with year year year year year year year year	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 sections	Ily @ NE. In long and stab roadway emba o.  The ded from vehicle S & 2 displaced ons on W-bean	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / En  Culvert Component Direction End Treatment (Concothers, None)	nbankme	3.0  Yes  nt General Ra	ating 7	7 st	7 Jpstree	EBL 12 Erosior stable of the stable deep x North of Souths 1 split	East 2.6; WBL a gullies \$ \$ vegetatep, 2m with year year year year year year year year	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 sections	Ily @ NE. In long and stab roadway emba o.  The ded from vehicle S & 2 displaced ons on W-bean	ele. SE ditch er nments. Appro ephoto posts.	osion, not ox 2.5m x 1.8	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / Em  Culvert Component Direction End Treatment (Concothers, None) Headwall	nbankme	3.0  Yes  nt General Ra	ating 7 Las	7 (sst	7 Jpstree Now	EBL 12 Erosior stable 1m dee stable-deep x North 6 Souths 1 split	East 2.6; WBL a gullies \$ & vegetar ep, 2m wi out not at 40m long embankm ide -2 sp post and ation of	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 secti	Ily @ NE. In long and stab roadway emba o. In long and stab roadway emba o. It does not be an	ephoto posts. n pushed out a	osion, not ox 2.5m x 1.8 at North side.	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / En  Culvert Component Direction End Treatment (Concothers, None)	nbankme	3.0  Yes  nt General Ra	ating 7 Las	7 st	7 Jpstree	EBL 12 Erosior stable 1m dee stable-deep x North 6 Souths 1 split	East 2.6; WBL a gullies \$ & vegetar ep, 2m wi out not at 40m long embankm ide -2 sp post and ation of	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 secti	Ily @ NE. In long and stab roadway emba o.  The ded from vehicle S & 2 displaced ons on W-bean	ephoto posts. n pushed out a	osion, not ox 2.5m x 1.8 at North side.	
Roadway Width (m)  Embankment Sideslope (:1) (Height of Cover(m)  Guardrail (Y/N)  Approach Road / Em  Culvert Component Direction End Treatment (Concothers, None) Headwall	nbankme	3.0  Yes  nt General Ra	ating 7 Las N E	7 (sst	7 Jpstree Now	EBL 12  Erosior stable 1m dee stable-deep x  North 6 Souths 1 split	East 2.6; WBL a gullies \$ & vegetar ep, 2m wi out not at 40m long embankm ide -2 sp post and ation of	12.6 SE and ted. Gu de, 40r ffecting g - photent rutt lit posts 5 secti	Ily @ NE. In long and stab roadway emba o. In long and stab roadway emba o. It does not be an	ephoto posts. n pushed out a	osion, not ox 2.5m x 1.8 at North side.	

71982 -1 Bridge Culvert

			Unctro	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall	<u> </u>	N	N	Explanation of condition
Bevel End		5	5	Minor tear NW.
Heaving (mm)	100			Distortation from collar movement.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	Mostly sandstone.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	4	
		Duit.	lae Cu	lyort Parrol
Culvert Component				Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			
Barrel Last Accessible Date	21-Jul-2005	pari (IIIIII	<u>). 2303</u>	Viewed from ends, shape and condition appear ok.
Barrer Last Accessible Date	21-301-2003			
				Water running too deep and fast to safely access.
Special Features				
Special Feature		N	N	(Welded seam intact. 09/Mar/2007) (16 rings D/S to barrel elbow. 09/Mar/2007)
(Type : BARREL ELBOW)			I	-
Special Feature				
(Type:)				
Roof	I	N	N	(R7 - 3065-S. 09/Mar/2007) Poorly nested roof seam on D/S barrel19-Nov-2008
Measured Rise (mm)				- 1 cony notice roof coam on 2/0 barrol. To two 2500
Measured At Ring No.				
Sag (mm)	105			
Percent Sag	4			
Sidewall	I	N	N	(R10 from D/S. 09/Mar/2007)
Measured Span (mm)	3065			
Measured At Ring No.	10			
Deflection (mm)	160			
Percent Deflection	6		1	
Floor	I -	N	N	
Bulge (mm)	0			
Measured At Ring No.	.,			
Abrasion (Y/N)	Yes		l	
Circumferential Seams	I <b>.</b>	N	N	
Separation (mm)	0			
Longitudinal Seams	I	N	N	(Seepage along East & West upper longitudinal floor seam. Surface rust, not pitting. 09/Mar/2007)
Total No. of Cracked Rings	0			- 100, 110, pilling. 00/1101/2007/
Total No. of Rings with Two Cracked Seams				(Longitudinal seams staggered at roof, sidewall and roof, floor seams which is problem for an elliptical pipe19-Nov-2008)
Min. Remaining Steel Between Cracks (mm)				(Extension staggered (1N) but not under WBL. 09/Mar/2007)
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	(Minor superficial rust lower 1/3, no pitting. 09/Mar/2007)
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	): 2905	, Rise (mm): 3203, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	(Fish noted in pipe. 100mm long. 2003/10/16)
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	(G.R. was "5" based on sidewall from 09/Mar/2007)
		D	ı ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Several wide cracks. Poorly consolodated concrete.
Collar		6	6	Several wide cracks on both sides.
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		6	6	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )		1		
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
			1	re Usage
01		Last	Now	Explanation of Condition
Channel (U/S and D/S)		7	7	CND double have subject 50m D/C
Alignment		7	7	CNR double box culvert 50m D/S. 75% blocked by driftphoto
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	·			
(Fish Compensation Measure 2 :	NONE)		I	
Channel General Rating		7	7	

		Maintena	ince Recommendations					
Inspector Recommendations	Year	Inspector Comments		Department Comments				
SHOTCRETE REPAIRS			·					
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION		Construct armour ditch erosi						
OTHER ACTION		Remove drift from inlet of CN lower water levels.	N structure to					
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	low) 55.6/5	Sufficiency Rating (%)	(Last/Now) 63.1/62.1	Est. Repl. Yr 204	3 Maint. Re	eqd. (Y/N)	Yes	
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Estimated Tota	ıl O		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name Todd		wski	Previous Assistant's Name	Previous Assistant's Name				
Next Inspection Date	11-May-2014		Previous Inspection Date	28-Sep-2010				
Inspection Cycle (Default) (months)	21							
Comment								