Bridge Culvert Inspection														
Bridge File Num	ber	er 79156 -1 Bridge Culvert					Form Type			CUL1				
Bridge File Number 79156 -1 Bridge Culvert Year Built 1981 Bridge or Town Name BRAGG CREEK Located Over TRIBUTARY TO ELBOW RIVER, 2 WATERCRS-ST Located On 66:04 C1 3.122 Water Body CI./Year Navigabil. CI./Year Legal Land Location NW SEC 24 TWP 22 RGE 6 W5M Longitude, Latitude -114:42:35, 50:53:09 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA27 Clear Roadway/Skew 10.6 / 19 deg. (RHF) AADT/Year 1,580 / 2012 (A) Road Classification RAU-210-110 Detour Length (km) 999 Bridge Culvert Information							Lot No			1				
Bridge or Town	Name	BRAGO	G CREEK				Inspector Name		Calvin Roberts					
Year Built Bridge or Town Name Located Over TRIBUTA WATERC Located On 66:04 C1 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location Longitude, Latitude -114:42:3: Road Authority Contract Main. Area CMA27 Clear Roadway/Skew AADT/Year Road Classification Detour Length (km) Pipe # Barrel MAIN Special Features Special Features Contract Comment Utility Attachments		TARY TO ELBO	W RIVEF	R, 2.13	, 2.13.33.18,		Inspector Class		BR CLS B					
Located On		66:04 (C1 3.122					ant Name						
Water Body Cl./	Year							ant Class		00.4				
								tion Date		03-Apr-2013				
Legal Land Loca	ation	NW SE	C 24 TWP 22 R	GE 6 W5	M			ntry By		Lauren Korte				
		-114:42	2:35, 50:53:09					ntry Date		11-Apr-2013				
-				Reviewer Name Review Date			Garry Roberts							
			·	,										
Clear Roadway/	Skew	10.6 / 1	9 deg. (RHF)					Dept. Reviewer Name Tim Davies Dept. Review Date 06-May-2013						
AADT/Year		1,580 /	2012 (A)						ale	06-May-2013				
Road Classificat	tion	RAU-2	10-110				Follow-Up By							
Detour Length (I	km)	999												
Number of Culve	erts		1											
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 [MAIN		- 1524		SP			95.1		152X51	3.0	ROUND		
Special Features														
					Uti	lities (L	ocated	at)						
							Gas							
·							Munici	pal						
							Proble	m (Y/N)	No					
Approach Road / Embankment														
				Last	Now	Explanation of Condition								
Horizontal Alignment				6	7	Superelevated curve.								
Vertical Alignment				7										
Roadway Width	(m)		10.600											
Embankment					7	7								
Sideslope (:1) 3.0			3.0											
(Height of Cover(m) : 8.5)														
Guardrail (Y/N)		Yes												
Approach Road / Embankment General Rating		ing	6	6										
						Upstre	am End							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction			W		West.									
End Treatment (Concrete, Steel, Others, None)														
Headwall			Х	X										
Collar			Х	X										
Wingwalls				Х	Х									
(Shape:)														
Cutoff Wall	Cutoff Wall				X	X	1							

79156 -1 Bridge Culvert

			Unetro	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	N	Snow covered. P.R 5.					
Heaving (mm)	0	3	IN IN	Show covered. F.N. 3.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300		T	0 1005					
Scour Protection		6	N	Snow covered. P.R 5.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			T						
Scour/Erosion		6	N						
Beavers (Y/N)	No								
200.0.0 (17.1)									
Upstream End General Rating		5	N	P.R 5.					
		D.	dae Cu	lvert Barrel					
Culvert Component			Now						
(Pipe # : 1, Primary Span, Local	tion Code: MAIN Sn			, Rise (mm): 1524, Type: SP)					
	1	ali (IIIII	1).						
Barrel Last Accessible Date	02-Jul-2011			Unable to enter, ice to within 300mm of barrel roof.					
Special Features									
Special Feature		5	N	Concrete floor with concrete wall extending half way up sidewall,					
(Type : CONC FLOOR)				begins just East of elbow in pipe.					
Special Feature									
(Type:)									
Roof		6	N	P.R 6.					
Measured Rise (mm)	1500		14	1 .10 0.					
Measured At Ring No.	5								
	24								
Sag (mm) Percent Sag	1			-					
	I	2	l NI	Continuous 400 mm v 2m long monforetions					
Sidewall Street (com)	4550	2	N	Continuous 100mm x 3m long perforations Through North side wall 25m from d/s end - photo					
Measured Span (mm)	1552								
Measured At Ring No.	5			(Perforations and severe corrosion - photo Extending up sidewall into steel not covered by concrete.					
Deflection (mm)	28			Water piping entire length of pipe - coming through sidewall, perfs and seams. Observed evidence of piping).					
Percent Deflection	2			and seams. Observed evidence of piping).					
			_	P.R 2.					
Floor		4	N	Rating 1/2 of barrel without concrete floor.					
Bulge (mm)	0			Corrosion stains @ haunch seam bolt holes West of concrete floor - no perforations seen.					
Measured At Ring No.									
Abrasion (Y/N)	No			P.R 4.					
Circumferential Seams		5	N	P.R 5.					
Separation (mm)	0								
Longitudinal Seams		5	N	P.R 5.					
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)	No								
Coating		2	N	(Corrosion. Perforations @ side wall - corrosion staining throughout-					
Corrosion By Soil (Y/N)	Yes			photo).					
Corrosion By Water (Y/N)	Yes			P.R 2.					
Camber POS/ZERO/NEG	POS								
Carriber 1 03/2ERO/NEG	00								

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1524, Type: SP)					
Ponding (Y/N) No									
Fish Passage Adequacy		5	5						
Baffle		Х	N						
(Type:)									
Waterway Adequacy		6	5	Ice to roof of barrel.					
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		2	2	General rating carried forward.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		Е		East.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar			N	Snow covered.					
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		X	X						
Bevel End			N	(Concrete floor extends to bevel end).					
Heaving (mm)	0			P.R 6.					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	800								
Scour Protection		4	N	(Rip-rap has settled downward into scour hole).					
(Type : RIP RAP)				Snow covered.					
(Avg. Rock Size(mm) : 600)									
Scour/Erosion		4	N	(1.5m(w) x 2.5m(l) x 1.5m(d) scour hole).					
Beavers (Y/N)	No								
Downstream End General Rating			N	P.R 4.					
		S	tructu	re Usage					
		Last Now		Explanation of Condition					
Channel (U/S and D/S)									
Alignment			5	1016 mm MP 25 m East for NW ditch drainage.					
Bank Stability			4	Sloughing just D/S to South.					
HWM (m below Top of Culvert)				Not visible.					
Drift (Y/N) No				Dishwasher disposed of at D/S end.					
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

			Maintenance Reco	mmenda	ations					
Inspector Recommendations	Yea	Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS					'					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	G									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		13 Rem	nove dishwasher from D/S end.							
OTHER ACTION		13 Insta 1200	all liner from elbow to outlet- photo Omm DIA (if not already done).							
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/I) (%)	Now) 22.	2/22.2	Sufficiency Rating (Last/Nov (%)	w) 3	6.8/34.5	Est. Repl. Yr	2014	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Jason Rus	su	Pi	revious A	s Assistant's Name					
Next Inspection Date 03-J		15	Pı	revious Ir	nspection Date					
Inspection Cycle (Default) (months)	21									
Comment										