Bridge Culvert Inspection																
Bridge File Nun	nber	77086 -	-1 Bridge Culvert				Form Type			CUL1						
Year Built 1969			Ī				Lot No.			3						
Bridge or Town Name GRASSY			Y LAKE				Inspector Name			Tom Carey						
Located Over		SMR - I	RRIGATION C, WATERCRS-IC				Inspector Class			BR CLS A						
Located On		877:06	1 6.438				Assistant Name									
Water Body Cl.						nt Class										
Navigabil. Cl./Year							Inspect	ion Date		14-Mar-2012						
Legal Land Loc	ation	NW SE	C 10 TWP 9 R0	GE 13 W4	1M		Data Entry By			Kelsey Roberts						
Longitude, Latitude -111:41:		:53, 49:43:39		Data Entry Date			08-Apr-2012									
Road Authority Alberta		a Transportation (AIT)					er Name		Garry Roberts							
Contract Main. Area CMA24										25-Mar-2012						
Clear Roadway/Skew 8.5 /							Dept. Reviewer Name			Tim Davies						
AADT/Year 280 / 20		011 (A)		Dept. Review Date		17-Apr-2012										
Road Classifica	ation	RCU-20	9-110		Follow-Up By											
Detour Length ((km)	5														
Bridge Culvert Information																
Number of Culv	/erts		1													
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN		2134	1549		RPP		16.5		152X51	2.8	PIPE ARCH				
Special Feature	es															
Special Features Comment																
Utility Attachments																
Telephone	West	ditch Gas														
Power	4 wires	s East di	itch and 4 lines	road 20m		Municipal										
Others	North						Problem (Y/N) No									
Pamarka																
Remains				Α	pproad	ch Road	l / Fmb	ankment								
				Last	Now	Explanation of Condition										
Horizontal Alignment			,		7	7	Intersection 15m North.									
Vertical Alignment					9 9											
Roadway Width (m)		8.000	5.000													
Embankment				N	7											
Sideslope (_:1)		2.5				1									
(Height of Cover(m) : 0.5)																
Guardrail (Y/N)			No													
Approach Roa	d / Emb	ankmer	nt General Rat	ing	7	7										
						Upstre	am <u>End</u>									
Culvert Compo	onent				Last	Now	Explan	ation of	Condit	tion						
Direction					W		West in	vert.								
End Treatment (Concrete, Steel, STEEL Others, None)																
Headwall				X	Х											
Collar				X	Х											
Wingwalls				X	Х											
(Shape :)																
Cutoff Wall					X	X										

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		Ν	N	(Heaved due to neg camber.) 2005/10/18						
Heaving (mm)	150			Covered in dirt						
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	100									
Scour Protection		N	5							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	7							
Beavers (Y/N)	No			Bevel filled in with 1.5m high dirt						
Upstream End General Rating	1	3	5	General rating carried forward						
		Bric	lae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2134	, Rise (mm): 1549, Type: RPP)						
Barrel Last Accessible Date	14-Mar-2012									
Special Features			1							
Special Feature										
(Type:)				-						
Special Feature				_						
(Туре :)										
Roof		N	5	(1 ring from U/S - 1530mm.						
Measured Rise (mm)	Measured Rise (mm)			Centerline - 1496mm. 1 ring from D/S - 1545mm.)						
Measured At Ring No.										
Sag (mm) 53										
Percent Sag 3										
Sidewall		N	4							
Measured Span (mm)	2160			Crimping at R2 at North at bottom corrugations						
Measured At Ring No.	5									
Deflection (mm)	26									
Percent Deflection	1									
Floor		N	N	300mm mud, ice and water						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	7							
Separation (mm)	0									
Longitudinal Seams		N	4	20mm gap at roof plates at R2.						
Total No. of Cracked Rings	1			Not a typical seam crack.						
Total No. of Rings with Two Cracked Seams				southside. Goes from bolt to plate edge. Roof is staggered.						
Min. Remaining Steel Between Cracks (mm)				Sidewall has no stagger.						
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N) No				1						
Coating	-	N	5							
Corrosion By Soil (Y/N)		IV	5							
Corrosion By Water (Y/N)	Yes									
	NEC									
Camber FUS/ZERU/NEG										
Ponding (Y/N)	Yes			300mm.						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2134	, Rise (mm): 1549, Type: RPP)					
Fish Passage Adequacy		X	X						
Baffle		X	X						
(Туре :)									
Waterway Adequacy		N	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			4						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	E							
End Treatment (Concrete, Steel, STEEL Others, None)			1						
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		X	X						
Bevel End		N	N	Covered in dirt at floor and up around sides 500mm deep.					
Heaving (mm)	100								
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm)	100		1						
Scour Protection		N	5						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)		1	1						
Scour/Erosion			7						
Beavers (Y/N) No									
Downstream End General Ration	ng	4	4	G.R. carried forward.					
		5	Structur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)	1								
Alignment			5	Aligns 90 degrees to pipe. No canal- is just used for ditch drainage now canal is filled in.					
Bank Stability			7						
HWM (m below Top of Culvert) 1.0				No visible HWM (Feb. 16/09)					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)	1	1						
Channel General Rating		7	5						

Maintenance Recommendations											
Inspector Recommendations	Ye	ear	Inspector Comments		Department Com	ments		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	20)13	Clean out dirt from ends if is to still be drainage pipe.	used as							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 44	1.4/44.4	4 Sufficiency Rating (Last/No (%)	ow) 6	62.0/56.4	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection	mer- peipe with A.T. ar	e could nd MD	be filled in, in future or just left as drair 14 now. T. Carey Mar. 14/12	nage	Department Comments						
Maintenance Reviewed By					Date		E	stimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tim D		ïm Davies			Previous Assistant's Name						
Next Inspection Date 14-J		4-Jun-2015			nspection Date	16-Feb-2009					
Inspection Cycle (Default) (months) 39											
Comment											