	Bridge Culvert Inspection										
Bridge File Num	umber 76366 -1 Bridge Culvert					Form Type		CULM			
Year Built	1967					Lot No.		4			
Bridge or Town	or Town Name NORDEGG					Inspector Name		Owen Salava			
Located Over TRIBUTARY TO NORTH SASKA				TCHE	EWAN	Inspector Class		BR CLS A			
Located On 11:04 C1 11 295						Assistant Name					
Water Body Cl./	/Year					Assistant Class					
Navigabil, CL/Y	ear					Inspection Date		07-Feb-2012			
Legal Land Loc	ation SE	SEC 7 TWP 38 R	GE 17 W5M			Data Entry By		Marcía Chavez			
Longitude Latitude -116:24:44 52:15:07						Data Entry Date	9	U2-Mar-2012			
Road Authority Alberta Transportation (AIT)			ר (AIT)			Reviewer Name	9	JUIII O BIIEN			
Contract Main. Area CMA18						Review Date	. N I				
Clear Roadway/Skew 13.5 / 8 deg. (RHF)						Dept. Reviewer	Name				
AADT/Year	840	/ 2010 (A)				Dept. Review Date		09-1011-2012			
Road Classifica	tion RAL	J-213.4-120				Follow-Up By					
Detour Length ((km) 300										
Bridge Culvert	Informatio	۱									
Number of Culv	verts	2									
Pipe #	Barrel	Span	Rise (or D	or Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1737	1920		SP	50.6		152X51	2.8	ELLIPSE	
2	MAIN	-	1200		MP	50.6		68X13		ROUND	
Special Feature	es	CONC FLOO	R								
Special Feature	es Comment										
				1 14:	litioo /l						
Litility Attachmo	onte			Οli	nues (L	ocaleu al)					
	North & Sc	uth side of road				Gas					
Power											
Others	thers					Problem (Y/N)	No				
Remarks											
			Apr	proad	ch Road	l / Embankmen	t				
			L	Last	Now	Explanation of	Condit	ion			
Horizontal Align	nment			7	7	Campground e	ntrance	50m West. Sag	curve to the we	est limits sight	
Vertical Alignme	ent			6	6	distance. No passing WBL.					
Roadway Width	n (m)	13.500									
Embookmont				7	7						
Sidealana (•1)	2.0		/	1						
(Height of Co	<u>)</u> ver(m) · 4 6)	2.0									
Guardrail (Y/N)	(Height of Cover(m) : 4.6) Guardrail (Y/N) Yes					South side only.					
Annrageh Bood / Embonkmont Congral Bating							•				
Approach Roa	d / Embank	ment General Ra	ting	6	6						
Approach Roa	d / Embank	ment General Ra	ting	6	6		- 				
Approach Roa	d / Embank	ment General Ra	iting	6	6 Upstrea	am End					
Approach Roa	d / Embank onent	ment General Ra	iting	6 Last	6 Upstrea Now	am End Explanation of	Condit	ion			
Approach Roa Culvert Compo (Pipe # : 1, Spa	d / Embank onent an Type: Pr	ment General Ra	iting	6 Last	6 Upstrea Now	am End Explanation of	⁻ Condif	ion			
Approach Roa Culvert Compo (Pipe # : 1, Spa Direction End Treatment Others, None)	d / Embank onent an Type: Pr (Concrete, S	ment General Ra mary Span)	Iting	6 Last	6 Upstrea Now	am End Explanation of East pipe.	⁻ Condif	ion			
Approach Road Culvert Compo (Pipe # : 1, Spa Direction End Treatment Others, None) Headwall	d / Embank onent an Type: Pr (Concrete, S	ment General Ra mary Span)	iting L	6 Last N X	6 Upstre Now	am End Explanation of East pipe.	Condit	ion			
Approach Roa Culvert Compo (Pipe # : 1, Spa Direction End Treatment Others, None) Headwall Collar	d / Embank onent an Type: Pr (Concrete, S	ment General Ra mary Span) Steel, STEEL	iting L	6 Last N X X	6 Upstre Now	am End Explanation of East pipe.	Condit	ion			
Approach Roa Culvert Compo (Pipe # : 1, Spa Direction End Treatment Others, None) Headwall Collar Wingwalls	d / Embank onent an Type: Pr (Concrete, S	ment General Ra mary Span) Steel, STEEL	iting	6 Last N X X X	6 Upstre: Now	am End Explanation of East pipe.	Condit	ion			

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1200			
Scour Protection		7	7	
(Type : RIP RAP)		·		
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	d <u>ge Cu</u>	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm): 1737	, Rise (mm): 1920, Type: SP)
Barrel Last Accessible Date	07-Feb-2012			
Special Features	1			
Special Feature		N	6	-
(Type : CONC FLOOR)				-
Special Feature				
(Туре :)				
Roof	1	7	7	
Measured Rise (mm)				-
Measured At Ring No.				Estimate
Sag (mm)	58			
Percent Sag	3		_	
Sidewall	1	4	4	R3 - 130mm stel remaining.
Measured Span (mm)	1795			
Measured At Ring No.	4			-
Deflection (mm)	58			-
Percent Deflection	3			
Floor		N	N	Concrete covered.
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)			-	
Circumterential Seams	0	7	7	
Separation (mm)	0			
Longitudinal Seams		4	4	R3 East haunch 130mm steel remaining.
I otal No. of Cracked Rings	1			-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)	130			
Proper Lap (Y/N)	No			1N
Longitudinal Stagger (Y/N)	Yes		_	
Coating	1	7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76366 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm): 1737	, Rise (mm): 1920, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		X	X	Above creek level.					
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	v Span)								
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	1600								
Scour Protection		7	7	Some Class I.					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	7	7						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)	1							
Direction		Ν		West pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL		-						
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		Х	X						

Alberta Transportation

Upstream End								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)		_					
Bevel End		6	N	(Floor corrosion. 30/May/2007) - Under ice.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		N N		(With some Class I. 30/May/2007) Snow/ice covered.				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		N	N					
Beavers (Y/N)	No							
Upstream End General Rating		6	N	GR was 6 from 04May2010.				
		Bri	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (ı	mm):	, Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date	08-Sep-2005			Full of ice. No obvious problems viewed from ends.				
Special Features	·							
Special Feature		X	Х					
(Type : CONC FLOOR)								
Special Feature								
(Type:)								
Roof		N	N	(Concrete floor.)				
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)								
Percent Sag								
Sidewall		N	N					
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)								
Percent Deflection								
Floor		N	N	(Concrete covered.)				
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	N					
Separation (mm)	0							
Longitudinal Seams		X	Х					
Total No. of Cracked Rings								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)				1				
Coating		6	N					
Corrosion By Soil (Y/N)			1.1					
Corrosion By Water (V/N)	Yes							
	ZERO							
Camper FOS/ZERU/NEG	LENU							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		X	X	Perched 1.2m.					
Baffle	Baffle								
(Type :)									
Waterway Adequacy		5	5						
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	N	GR was 5 from 08Sep2005.					
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		S		West pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		X	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End	Bevel End		N	Iced over.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	Above/Below (mm) 1200								
Scour Protection		4	N	Perched 1.2m deep. Not a problem @ this time.					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		4	N	(Scour hole below pipe. 04May2010).					
Beavers (Y/N)	No								
Downstream End General Ratir	ng	4	4	GR carried forward from 04May2010.					
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability	1	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 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Maintenance Recommendations											
Inspector Recommendations	Year	Inspector Comments		Department Comm	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	w)	44.4/44.4	4 Sufficiency Rating (Last/N (%)	y Rating (Last/Now)		Est. Repl. Yr	st. Repl. Yr 2019		qd. (Y/N)	No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name		Previous /	Assistant's Name								
Next Inspection Date	07-Nov	-2013		Previous	us Inspection Date 04-May-2010						
Inspection Cycle (Default) (months)	21										
Comment											