Bridge Culvert Inspection														
Bridge File Number 00361 -1			51 -1 Bridge Culvert					уре		CUL1				
Year Built		1963				Lot No.			2					
Bridge or Town N	Name	MORNIN	IGSIDE				Inspector Name			Jason Saly				
Located Over		WOLF C	REEK, 5.56, V	VATERC	RS-ST		Inspector Class			BR CLS A				
Located On		2:26 L1 3	36.678;2:26 R	1 36.683			Assistant Name							
Water Body Cl./Y	/ear							Int Class						
Navigabil. Cl./Yea	ar						Inspection Date			19-Mar-2013				
Legal Land Locat	tion	SE SEC	10 TWP 42 R		Data Entry By			Marcia Chavez						
Longitude, Latitu	de	-113:39:4	47, 52:36:03					ntry Date	;	01-Apr-2013				
Road Authority Alberta Tr			Fransportation (AIT)					er Name	•	John O'Brien				
Contract Main. Area CMA17					Review Date			26-Mar-2013						
Clear Roadway/Skew 22.8 / -15			5 deg. (LHF)		Dept. Reviewer Name			Chris Black						
AAD1/Year		23,260 / 2	2011 (A)		Dept. Review Date			09-Apr-2013						
Road Classificati	ion	RFD-412	2.4-130		Follow-Up By									
Detour Length (k	(m)	5												
Bridge Culvert Information														
Rino #	Porrol			Pico (or		Tupo	Longth		Corr Brofilo	DI /Slab	Shana			
гіре #	ballel		ppan	Rise (or Dia.)		туре		Length			Thickness	Shape		
1 N	/AIN	3	495	3854		SPE		82		152X51 2.8 E		ELLIPSE		
Special Features	5													
Special Features Comment														
Litility Attachmon	te				Οl	incies (L		al)						
Telephone	Westi													
Power	2 lines	South 10	ეელ			Municipal								
Others	2 11163				Problem (Y/N) No									
Remarks								110						
	Annroach Road / Embankment													
					Last	Now	Explan	ation of	Condit	tion				
Horizontal Alignment			8	8	Entrance approx 120m South of pipe.									
Vertical Alignment				7	7	On gra								
Roadway Width (Roadway Width (m)		22.800											
Embankment				7			Snow of	covered.						
Sideslope (:1	1)		3.0											
(Height of Cove	er(m) :	4)					1							
Guardrail (Y/N)			Yes											
Approach Road	/ Emb	ankmen	t General Rat	ing	7	7								
						Upstre	am End							
Culvert Compor	nent				Last	Now	Explan	ation of	Condit	tion				
Direction					E									
End Treatment (C Others, None)	Concre	ete, Steel,	STEEL											
Headwall	Headwall			X	X									
Collar				X	Х									
Wingwalls				X	X									
(Shape :)														
Cutoff Wall					X	Х								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

00361 -1 Bridge Culvert

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		5	5	Some rusting on top of bevel - minor.						
Heaving (mm)	0			3 missing bolts on N side at connection to barrel circular seam.						
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection	•	4 N		(Well vegetated. 15Sep2011).						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		4	N	(Erosion @ U/S end @ N side bevel, minor. 15Sep2011).						
Beavers (Y/N)	NO									
Upstream End General Rating	• •	4	4	GR carried forward from 15Sep2011 based on scour rating.						
Culvort Component		BIT		Explanation of Condition						
(Dipe # : 1 Primary Span Lease	tion Code: MAIN See	Last	110W							
Rerrol Lost Accessible Date	10 Mor 2012		1). 3493	$(2420 \text{ append} \times 2020 \text{ rigg} \oplus \text{ and } 22May(2002)$						
Barrel Last Accessible Date	19-Mar-2013			(3430 span x 3920 rise @ end. 22May2003).						
Special Features										
Special Feature										
(Туре:)										
Special Feature										
(Туре:)										
Roof		N	7	Unable to measure rise due to ice.						
Measured Rise (mm)	3854									
Measured At Ring No.	29									
Sag (mm)	0			(Est. 1%, 13.Jan2010).						
Percent Sag	0									
Sidewall		N	7	(Span @ (R1=3433,62mm. 13Jan2010); R2=3442=53mm,						
Measured Span (mm)	3427			R10=3427=68mm=1.9%; R20=3438=57mm; R29=3455=40mm; (R30 = 3440=55mm 13 Jan2010)						
Measured At Ring No.	10			(100 – 0110–001111. 1000112010).						
Deflection (mm)	68			Inward.						
Percent Deflection	2									
Floor		N	N	Ice covered.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	4	3 nuts missing from circumferential seam between R11 & R12.						
Separation (mm)	0									
Longitudinal Seams		N	7							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes			1N						
Coating		5	5	Minor corrosion.						
Corrosion By Soil (Y/N)	Yes			1						
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 3495	, Rise (mm): 3854, Type: SPE)						
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			7							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		W								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar			Х							
Wingwalls		х	Х							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End			7							
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		7	N	(Well vegetated. 15Sep2011) - Snow covered.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion			N	Snow covered.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	7	7							
		s	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability			7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							

Alberta Transportation

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	r Comments		Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP		2013	To E bev	vel, if not yet done.								
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2013	Install 3 I and R12	bolts/nuts along seam betwe	een R11							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		55.6/77.8		Sufficiency Rating (Last/Now) (%)		59.1/71.1 E		st. Repl. Yr 2033		Maint. Red	qd. (Y/N)	Yes
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 Ow		Salava			Previous	us Assistant's Name						
Next Inspection Date	19-Dec-2014				Previous	Inspection Date	15-Sep-2011					
Inspection Cycle (Default) (months) 21												
Comment												