Bridge Culvert Inspection												
Bridge File Number 78164 -1 Bridge Culvert					Form Type			CULM				
Year Built		1976	0					2				
Bridge or Town I	Name	DONNE	LLY			Inspec	tor Name	Brian Pientsch				
Located Over		WINAG					tor Class	BR CLS A				
Located On 2:58 C1 1.606							ant Name	Clem Guenett	e			
Water Body CI./							ant Class	BR CLS B				
Navigabil. Cl./Ye							tion Date	14-Dec-2012				
Legal Land Location NW SEC 1 TWP 78 RGE 21 W5							ntry By	Theresa Lacusta 24-Jan-2013				
Longitude, Latitude -117:07:53, 55:44:16							ntry Date					
Road Authority Alberta Transportation (AIT)							ver Name	Eric Carcoux				
Contract Main. Area CMA03							Review Date09-Jan-2013Dept. Reviewer NameDavid Morrison					
Clear Roadway/	Skew	12.7 /					Review Date					
AADT/Year		2,150/2	2011 (A)			· · ·	-Up By	19-Mar-2013				
Road Classificat	tion	RAU-21	3.4-120			FOILOW	-ор ву					
Detour Length (ł	km)	300										
Bridge Culvert	Inform	ation										
Number of Culve	erts		2									
Pipe #	Barrel		Span	Rise (or Dia.)	) Type		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2134	SP		28	152X51	3.5	ROUND		
2 1	MAIN		-	2134	SP		28	152X51	3.5	ROUND		
Special Features	S											
Special Features	s Comr	nent			Jtilities (	Located	at)					
Utility Attachmer	nts				otilitico		aty					
Telephone						Gas						
Power	4 wire	O/H alo	ng west ditch			Munici	pal					
Others							m (Y/N) No					
Remarks												
				Appro	ach Roa	d / Emb	ankment					
			Las	st Now	Explanation of Condition							
Horizontal Align	ment			7	7	Farm entrance 50m North 55 km/h signs (BUMP)						
Vertical Alignme				8	3							
Roadway Width	(m)		12.700									
Embankment				8	8	_						
Sideslope (:			4.0			_						
(Height of Cov	er(m) :	2)										
Guardrail (Y/N)			Yes									
Approach Road	d / Emb	bankmer	nt General Rat	ing 7	7							
						eam Enc						
Culvert Compo				Las	st Now	Explar	nation of Cond	ition				
(Pipe # : <b>1, Spa</b>	n Type	e: Prima	ry Span)									
Direction End Treatment (	Concre	ete, Stee		E		North I	Sipe.					
Others, None) Headwall				6	6	Gabior	Gabion headwall.					
Collar				N	I N	Under	Under snow.					
Afin mundle					/ V							
Wingwalls				X	X							
(Shape : )					Pag							

	1			am End					
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)								
Cutoff Wall		N	N						
Bevel End		5	N	(Scaling & pitting rust on floor. May 5, 2009. Snow Covered)					
Heaving (mm) 200									
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection			N	Overgrown with grass05-May-2009					
(Type : <b>RIP RAP</b> )				Snow covered					
(Avg. Rock Size(mm) : <b>200</b> )									
Scour/Erosion		N	N	Snow covered					
Beavers (Y/N)	No								
Upstream End General Rating		5	5	GR carried forward.					
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 2134, Type: SP)					
Barrel Last Accessible Date	14-Dec-2012			North pipe. 1968mm ice to crown					
Special Features									
Special Feature									
(Type : )									
Special Feature									
(Type : )									
Roof		6	6						
Measured Rise (mm) 2185				(Deflection is upward. May 5, 2009) Measurements not taken due to ice on floor.					
Measured At Ring No.	4								
Sag (mm) 51									
Percent Sag	2								
Sidewall		6	6						
Measured Span (mm)	2056			Deflection inward.					
Measured At Ring No.	5								
Deflection (mm)	78								
Percent Deflection	0								
Floor		N	N	Ice on floor.					
Bulge (mm)	0								
Measured At Ring No.	4								
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		7	7						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1N stagger					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		4	4	Scaling & pitting rust above ice level.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								

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	):	, Rise (mm): 2134, Type: SP)					
Camber POS/ZERO/NEG ZERO									
Ponding (Y/N)	No								
Fish Passage Adequacy		5	5						
Baffle		Х	Х						
(Туре : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	6						
Culurat Commonant				ream End					
Culvert Component (Pipe # : 1, Span Type: Primary	(Span)	Last	Now	Explanation of Condition					
Direction	(Span)	W		(North size)					
End Treatment (Concrete, Steel,	STEEL	VV		(North pipe)					
Others, None) Headwall		Х	X						
Collar			X						
Wingwalls		X	X						
(Shape : )		Λ	~						
Cutoff Wall		X	X						
Bevel End		5	N	(Scaling and pitting rust. May 9, 2009) Snow Covered.					
Heaving (mm)	250								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	300								
Scour Protection		N	N	Riprap and gabions09-May-2009					
(Type : <b>RIP RAP</b> )				Snow covered					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		N	N	600 mm deep scour @ end of pipe. (Bevel end not supported for 2 meters. 05 May 2009) Snow Covered.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	3	3	GR Carried forward.					
				am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		E		(South pipe)					
End Treatment (Concrete, Steel, CONCRETE Others, None)									
Headwall		7	7	Gabion headwall.					
Collar		N	N	Under snow.					
Wingwalls		X	X						
(Shape : )									
Cutoff Wall			N						

Bridge Inspection & Maintenance System (Web 2005)

78164 -1 Bridge Culvert

Cutver ComponentLassNowExplanation of ConditionBevel End5N(Hitrig A couling use on floor. May 5, 2009)Heaving (mm)200IMove Releaw Stream BedIAbove Releaw Stream BedIAbove Releaw Stream BedIAbove Releaw Stream BedICruy Trace IntoNCruy Rock Size (mm): 200NSocul ProtectionNNNNCruy Rock Size (mm): 200NSocul ProtectionNCutvert ComponentNOperation Stream S		am End			
Benef End     Year Above Proceeding (mm)     200       Invert Above Pole Stream Bed     Image: Stream Bed     Snow Covered       Above Pole Stream Bed     Image: Stream Bed     Snow Covered       (Type : RIP RAP)     V     No     No       (Type : RIP RAP)     V     No     Couldn't tell - under snow.       (Type : RIP RAP)     No     No     Couldn't tell - under snow.       (Pysteam End General Rating     No     S     G carried fwd.       Upsteam End General Rating     So     S carlied fwd.       Barrol Last Accessible Date     14-Dec 2012     South pipe.       Special Feature     South pipe.     South pipe.       Special Feature Specia	Culvert Component		Last	Now	Explanation of Condition
Heaving (mm)200Show coveredInvert Above/Below Stream BodSour ProtoctionNNSour ProtoctionNNSour ProtoctionNNCongregationNNSour ProtoctionNNSour ProtoctionNNSour ProtoctionNNSour ProtoctionNNBeavers (V/N)NoOvergrown with grass. May 5, 2009) Snow covered.Beavers (V/N)NoSSCulvert ComponentISCulvert ComponentISCulvert ComponentISCulvert ComponentISSpecial FeatureSSSpecial FeatureSSCrype : )SSSpecial FeatureISCrype : )SSSpecial FeatureIICrype : )SSSpecial FeatureIICrype : )IISourd Alka (Song)AISpecial FeatureIICrype : )IISidewallAIMeasured Alka (Song)AIProcent SagSIProcent SagSIProcent SagNIProcent SagNIProcent SagIIProcent SagAIProcent SagIIProcent SagII	(Pipe # : 2, Span Type: Second	lary Span)			
Interver Above/Below Stream Bed     Image: Constraint of the stream bed <thimage: bed<="" constream="" th="">     Image: Constraint of the st</thimage:>	Bevel End		5	N	(Pitting & scaling rust on floor. May 5, 2009)
Above/Below (mm) 0 N N   Scour Protocion N N N   Cype : RP RAP; (Avg. Rack Size(mm) : 200) V N N   Scour/Erosion N N N Overgrown with grass. May 5, 2009) Snow covered.   Beavers (V/N) No N N Grant (Avg. Name)   Upstream End General Ratio No S G Carried fwd.   Culvert Component Last Now Explanation of Condition   (Pipe : 7, 2, Secondary Span, Location Code: MAIN, Span (Write Write Barre) South pipe.   Special Feature I - Deo-Col2 South pipe.   (Pipe : 7, 2, Secondary Span, Location Code: MAIN, Span (Write Write Same) South pipe.   Special Feature I South pipe.   (Type :) South pipe. South pipe.   Special Feature I I   (Type :) I I   Measured Ak Ring No. 4 I   Aga (mm) 2175 I I   Measured Ak Ring No. 5 I I   Parcent Deflection G I I   Parcent Deflection (Nm) S3 I I   Parcent Sag G I I   Parcent Deflection (Nm)	Heaving (mm)	200			Snow covered
Secur ProtectionNNNCouldn't tell - under snow.(Type : HP RAP) (Vag. Rock Steelm) : 2000 $V$ VVSouriFinsionNNNCouldn't tell - under snow.SouriFinsionNNN(Cvergrown with grass. May 5, 2009) Snow covered.Beavers (V/N)NoSSGR carried fwd.Upstream End General RatingSSGR carried fwd.Culvert ComponentLest NoveExplanation of Condition(Pipe # . 2 Secondary Span_Location Code: MAIN, Span (The Street NoveSouth pipe.Barrel Last Accessible Date14-Dec-2012Street NoveSpecial FeatureISouth pipe.(Type : )IISpecial FeatureII(Type : )IISpecial FeatureIIRead R Ring No.IIBard Labesson (Type I)II <td>Invert Above/Below Stream Bed</td> <td></td> <td></td> <td></td> <td></td>	Invert Above/Below Stream Bed				
Image: space of the section of the se	Above/Below (mm)	0			
An organ series of the series	Scour Protection		N	N	Couldn't tell - under snow.
Soour/ErosionNNNOvergrown with grass. May 5, 2009) Snow covered.Beavers (Y/N)NSGGG	(Type : <b>RIP RAP</b> )				
Beavers (Y/N)NoNoUpstream End General RatingSSSGGCulvert ComponentLast NowExplanation of ConditionCulvert ComponentLast NowExplanation of Condition(Pipe # 1, Secondary Span, Location Code: MAIN, Span (TTU):Rise (ITT): 2134, Type: SP)Barrel Last Accessible Date14-Dec-2012South pipe.Special FeaturesSouth pipe.Special FeatureISpecial FeatureI(Type : )Special FeatureSpecial FeatureIMeasured Rise (mm)2175Measured Rise (mm)2175Measured Rise (mm)2175Measured Rise (mm)2081Measured Rise (mm)2081Measured Rise (mm)2081Measured Rise (mm)2081Measured Rise (mm)2081Measured At Ring No.5Special FeaturesSpecial FeaturesSidewall0Measured At Ring No.4Abrasion (r/N)NoBulge (mm)0OISpecial Reduce (mm)4Bulge (mm)0Circumterential Seams7Total No. of Carcked Rings7Total No. of Carcked Rings7Total No. of Carcked Rings7Proper Lap (r/N)NoControine By Soil (r/N)NoCortaine Ring No.8Generatione Rings No9Total No. of Carcked SeamsMin Remaini	(Avg. Rock Size(mm) : 200)				
Upstream End General RatingSiSG carried fwd.Brit-general Colspan="2">Starter Concols MAIN, Span ( $TU$ )Starter Condition(Pipe # 2, Secondary Span, Low Colspan="2">Low Colspan	Scour/Erosion		N	N	(Overgrown with grass. May 5, 2009) Snow covered.
Upstream End General RatingSGG acrariad fwd.Brit-Jecuter EarrelCulvert ComponentLast NowExplanation of Condition(Pipe # 2, Secondary Span, Location Code: IMAIN, Span (mu), Rise (mm): 2134, Type: SP)Barrel Last Accessible Date14-Dec-2012, Rise (mm): 2134, Type: SP)Barrel Last Accessible Date14-Dec-2012, Rise (mm): 2134, Type: SP)Special FeaturesSpecial FeaturesSpecial FeaturesSpecial FeaturesSpecial Features(Type : )Special Feature(Type : )Measured Aring No. 4Special FeatureSpecial FeatureSpecial FeatureSpecial Feature(Type : )Special Feature(Type : )Special FeatureSpecial Feature(Type : )Specia		Na			
Barel Last NowExplanation of Condition(Pipe # 2, Secondary Span, Location Code: MAIN, Span (mm), Rise (mm): 2134, Type: SP)Barrel Last Accessible Date14-Doc-2012					
Curver ComponentLatsNewExplanation of Condition(Pipe 2: 3. Secondary Span.14-Dec-2012VKise (mb): 2134, Type: SP.Barrel Last Accessible Data14-Dec-2012VSisterminice to crownSpecial FeatureIIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIVSpecial FeatureIIV(Type :)IIISpecial FeatureIIVMeasured Ak Ring No.IIISpecial DefinitionIIVPercent DefinitionIIVPercent DefinitionIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial SeameIIVSpecial Se	Upstream End General Rating		5	5	GR carried fwd.
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm)Filse (mm): 2134, Type: SP)Barrel Last Accessible Date14-Dec-2012South pipe. 1857mm ice to crownSpecial FeaturesISouth pipe. 1857mm ice to crownSpecial FeatureII(Type :)IISpecial FeatureII(Type :)IIRoof217566Measured Rise (mm)217566Measured Rise (mm)217566Sag (mm)41IIPercent Sag2ISoldewallCollIPercent Sag2IPercent Sag2081IMeasured At Ring No.5ISpecial FeatureNNPercent Deflection0IPercent Deflection0IPercent Sag0IPercent Sag0ISouth Pipe.1South Pipe.1Percent Sag0IPercent Sag0ITotal No. O Cracked Rings0			Bri	dge Cu	lvert Barrel
Barrel Last Accessible Date14-Dec-2012ISouth pipe. 1857mm ice to crownSpecial FeatureSpecial FeatureII(Type :)Special FeatureISpecial FeatureII(Type :)IISpecial FeatureII(Type :)IISpecial FeatureII(Type :)IISpecial FeatureII(Type :)IIMeasured Rise (mm)2175IMeasured At Ring No.4ISidewallIIMeasured Span (mm)2081IBulge (mm)0IPercent DeflectionIPercent DeflectionIPercent DeflectionIIoangured At Ring No.4Abrasin (Y/N)NoNNNNReasured At Ring No.4Abrasin (Y/N)NoIoagutonial Seams7Total No. of Rings with Two Cracked SeamsITotal No. of Rings with Two Cracked SeamsIMin. Remaining Steel Between Cracks (smm)IProper Lap (Y/N)NoLongitudinal Stagger (Y/N)YesCoarrosin By Soli (Y/N)NoCorrosin By Soli (Y/N)NoYesICorrosin By Soli (Y/N)YesStagenICorrosin By Soli (Y/N)YesStagenIStagenYesSt	Culvert Component		Last	Now	Explanation of Condition
IBS7mm ice to crownSpecial Feature(Type :)ISpecial FeatureI(Type :)Special Feature(Type :)ISpecial FeatureI(Type :)IRoof66Measured Rise (mm)2175Measured At Ring No.44ISag (mm)41Percent Sag2Sidewall66Measured At Ring No.5Deflection (mm)53Deflection (mm)53Deflection (mm)53Deflection (mm)53Deflection (mm)6NNBulge (mm)0Measured At Ring No.4Abrasion (Y/N)NoNo7Total No. of Cracked Rings0Min. Remaining Steel7Between Cracks (mm)0NoCarceked RingsMin. Remaining Steel7Proper Lap (Y/N)NoNoICoatingVinsCoatingNoCoatingNoCoating Bey Sol (Y/N)NoVersCoating Deflection Ry Sol (Y/N) <td>(Pipe # : 2, Secondary Span, Lo</td> <td>ocation Code: MAIN, S</td> <td>Span (</td> <td>mm):</td> <td>, Rise (mm): 2134, Type: SP)</td>	(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (	mm):	, Rise (mm): 2134, Type: SP)
Special Feature (Type : )IISpecial Feature (Type : )IISpecial Feature (Type : )IIReasured Rise (mm)2175IIMeasured At Ring No.4IIPercent Sag2IIPercent Sag2IISidewall0IIMeasured At Ring No.2081IIMeasured At Ring No.5IIDeflection (mm)53IIDeflection (mm)53IIPercent Deflection0IIFloorIIIBulge (mm)0IIMeasured At Ring No.4ISeparation (fmm)0ISeparation (fmm)0ISeparation (fmm)0ISeparation (fmm)0ISeparation (fmm)0ITotal No. of Rings with Two Cracked SeamsITotal No. of Rings with Two Cracked SeamsIMin. Remaining Steel Between Cracks (mm)IProper Lap (Y/N) Proper Lap (Y/N)No NoNo Coarrosin By Soli (Y/N)No NoCoatingVolicyCoating No Soli (Y/N)No NoCoarrosin By Soli (Y/N)No NoNo Coarrosin By Soli (Y/N)No NoNo Coarrosin By Soli (Y/N)No NoNo Coarrosin By Soli (Y/N)No NoNo Coarrosin By Soli (Y/N) <td>Barrel Last Accessible Date</td> <td>14-Dec-2012</td> <td></td> <td></td> <td>South pipe. 1857mm ice to crown</td>	Barrel Last Accessible Date	14-Dec-2012			South pipe. 1857mm ice to crown
$ \begin{array}{ c c c } \hline Type : ) & \\ Special Feature \\ \hline Type : ) & \\ \hline Type : & $	Special Features				
Special Feature (Type : )IIRof $Z$ $Z$ $Z$ Measured Rise (mm)2175 $Z$ $Z$ Measured At Ring No.4 $Z$ $Z$ Sag (mm)41 $Z$ $Z$ Percent Sag2 $Z$ $Z$ Sidewall $Z$ $Z$ $Z$ Measured At Ring No.5 $Z$ $Z$ Sidewall $Z$ $Z$ $Z$ Measured At Ring No.5 $Z$ $Z$ Deflection (mm)53 $Z$ $Z$ Percent Deflection $D$ $Z$ $Z$ Percent Deflection $D$ $Z$ $Z$ Bulge (mm) $O$ $Z$ $Z$ Bulge (mm) $O$ $Z$ $Z$ Separation (mm) $D$ $Z$ Circumferential Seams $O$ $Z$ Total No. of Cracked Ring No. $Q$ $Z$ Min. Remaining Steel $O$ $Z$ Between Cracks (mm) $Z$ $Z$ Proper Lap (Y/N)No $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating Corrosion By Soli (Y/N)No $Z$ Coarosion By Soli (Y/N)No $Z$ Coarosion By Water (Y/N)Yes $Z$ Coarosion By Water (Y/N)YesCoarosi					
Special Feature (Type : )IIRof $Z$ $Z$ $Z$ Measured Rise (mm)2175 $Z$ $Z$ Measured At Ring No.4 $Z$ $Z$ Sag (mm)41 $Z$ $Z$ Percent Sag2 $Z$ $Z$ Sidewall $Z$ $Z$ $Z$ Measured At Ring No.5 $Z$ $Z$ Sidewall $Z$ $Z$ $Z$ Measured At Ring No.5 $Z$ $Z$ Deflection (mm)53 $Z$ $Z$ Percent Deflection $D$ $Z$ $Z$ Percent Deflection $D$ $Z$ $Z$ Bulge (mm) $O$ $Z$ $Z$ Bulge (mm) $O$ $Z$ $Z$ Separation (mm) $D$ $Z$ Circumferential Seams $O$ $Z$ Total No. of Cracked Ring No. $Q$ $Z$ Min. Remaining Steel $O$ $Z$ Between Cracks (mm) $Z$ $Z$ Proper Lap (Y/N)No $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating $Z$ $Z$ Coating Corrosion By Soli (Y/N)No $Z$ Coarosion By Soli (Y/N)No $Z$ Coarosion By Water (Y/N)Yes $Z$ Coarosion By Water (Y/N)YesCoarosi	(Type:)				
(Type : )Roof666Measured Rise (mm)2175End of barrel bent down slightly.Measured At Ring No.45Sag (mm)41(Deflection upward. May 5, 2009) Est due to ice.Sidewall $$					
Roof2175666End of barrel bent down slightly.Measured At Ring No.4 $<$ $<$ $<$ $<$ Sag (mm)41 $<$ $<$ $<$ $<$ Percent Sag2 $<$ $<$ $<$ $<$ Sidewall $<$ 66 $<$ $<$ Measured At Ring No.5 $<$ $<$ $<$ $<$ Deflection (mm)53 $<$ $<$ $<$ $<$ Percent Deflection (mm)53 $<$ $<$ $<$ Deflection (mm)53 $<$ $<$ $<$ Percent Deflection (mm)0 $<$ $<$ $<$ Bulge (mm)0 $<$ $<$ $<$ Measured At Ring No.4 $<$ $<$ Abrasion (Y/N)No $<$ $<$ $<$ Circumferential Seams777Total No. of Cracked Rings0 $<$ $<$ Indit No. of Rings with Two Cracked Seams0 $<$ $<$ Proper Lap (Y/N)No $<$ $<$ Proper Lap (Y/N)No $<$ $<$ Coating $<$ $<$ $<$ Coating CoatingNo $<$ $<$ Coating Corrosion By Soil (Y/N)No $<$ $<$ Corrosion By Water (Y/N)Yes $<$ $<$ Hint Remaining Steel $<$ $<$ $<$ Corrosion By Water (Y/N)Yes $<$ $<$ YesYes $<$ $<$ YesYes <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Measured Rise (mm)2175Image: Constraint of the section of the			6	6	End of barrel bent down slightly.
Measured At Ring No.4Image: Constraint of the con					
Sag (mm)41 $\cdot$ Percent Sag2 $\cdot$ SidewallCorrosion By Soil (Y/N)NoSidewallCorrosion By Soil (Y/N)NoSidewallCorrosion By Soil (Y/N)NoSag (mm)2081 $\cdot$ SidewallCorrosion By Soil (Y/N)NoSag (mm)2081 $\cdot$ SidewallCorrosion By Soil (Y/N)NoSag (mm)2081 $\cdot$ Sag (mm)2081 $\cdot$ Bulge (mm)0 $\cdot$ Bulge (mm)0 $\cdot$ Bulge (mm)0 $\cdot$ Separation (mm)0Circumferential Seams77Total No. of Cracked Rings0Circumferenting Steel Between Cracks (mm) $\cdot$ Proper Lap (Y/N)NoNo $\cdot$ Corrosion By Soil (Y/N)NoNo $\cdot$ Sag (Y/N)NoSag (Y/N)Sag (Y/N) <td colspan="2"></td> <td></td> <td></td> <td>(Deflection upward. May 5, 2009) Est due to ice.</td>					(Deflection upward. May 5, 2009) Est due to ice.
Percent Sag2 $<$ Sidewall $<$ 66Measured Span (mm)2081 $< >$ Measured At Ring No.5 $< >$ $< >$ Deflection (mm)53 $< >$ $< >$ Percent Deflection0 $< >$ $< >$ FloorNNNBulge (mm)0 $< >$ $< >$ Measured At Ring No.4 $< >$ $< >$ Abrasion (Y/N)No $< >$ $< >$ Circumferential Seams77Separation (mm)0 $< >$ Iongitudinal Seams0 $< >$ Total No. of Cracked Rings0 $< >$ Total No. of Cracked Rings0 $< >$ Min. Remaining Steel Between Cracks (mm) $< >$ Proper Lap (Y/N)No $< >$ Proper Lap (Y/N)Yes $< <$ Corrosion By Soil (Y/N)No $< <$ Corrosion By Soil (Y/N)No $< <$ Corrosion By Soil (Y/N)YesYes $<$					
Sidewall666Measured Span (mm)2081 $\blacksquare$ Measured At Ring No.5 $\blacksquare$ Deflection (mm)53 $\blacksquare$ Percent Deflection0 $\blacksquare$ Floor0 $\blacksquare$ Bulge (mm)0 $\blacksquare$ Measured At Ring No.4 $\blacksquare$ Abrasion (Y/N)No $\blacksquare$ Circumferential Seams77Separation (mm)0 $\blacksquare$ Longitudinal Seams0 $\blacksquare$ Total No. of Cracked Rings0 $\blacksquare$ Min. Remaining Steel Between Cracks (mm) $\blacksquare$ $\blacksquare$ Nin. Remaining Steel Between Cracks (mm) $\blacksquare$ $\blacksquare$ Proper Lap (Y/N)No $\blacksquare$ $\blacksquare$ Corrosion By Soil (Y/N)No $\blacksquare$ $\blacksquare$ Corrosion By Water (Y/N)Yes $\blacksquare$ $\blacksquare$ Corrosion By Water (Y/N)Yes $\blacksquare$ Corrosi					
Measured Span (mm)2081Image: Constraint of the section of the			6	6	
Measured At Ring No.5 $<$ Deflection (mm)53 $<$ Percent Deflection0 $<$ FloorNNNBulge (mm)0 $<$ Measured At Ring No.4 $<$ Abrasion (Y/N)No $<$ Circumferential Seams77Separation (mm)0 $<$ Longitudinal Seams77Total No. of Cracked Rings0 $<$ Min. Remaining Steel Between Cracks (mm) $<$ $<$ Proper Lap (Y/N)No $<$ $<$ Proper Lap (Y/N)No $<$ $<$ Corrosion By Soil (Y/N)No $<$ $<$ Corrosion By Soil (Y/N)No $<$ $<$ Corrosion By Water (Y/N)Yes $<$ $<$ Pitting above ice level. $<$ $<$		2081		Ŭ	Deflection inward.
Deflection (mm)53 $<$ Percent Deflection0 $<$ FloorNNCovered with ice.Bulge (mm)0 $<$ Measured At Ring No.4 $<$ Abrasion (Y/N)No $<$ Circumferential Seams77Separation (mm)0 $<$ Longitudinal Seams0Total No. of Cracked Rings0Total No. of Cracked Rings0Min. Remaining Steel Between Cracks (mm) $<$ Proper Lap (Y/N)NoNo $<$ CoatingVKings With Two Cracked Seams $<$ CoatingNoCorrosion By Soil (Y/N)NoNo $<$ Corrosion By Soil (Y/N)NoNo $<$ Corrosion By Water (Y/N)NoCorrosion By Water (Y/N)NoNo $<$ Corrosion By Water (Y/N)Corrosion By Wat					-
Percent Deflection0 $I$ FloorNNNBulge (mm)0 $I$ Measured At Ring No.4 $I$ Abrasion (Y/N)No $I$ Circumferential Seams77Separation (mm)0 $I$ Longitudinal Seams77Total No. of Cracked Rings0 $I$ Total No. of Cracked Rings0 $I$ Total No. of Rings with Two Cracked Seams $I$ Min. Remaining Steel Between Cracks (mm) $I$ No $I$ $I$ Proper Lap (Y/N)No $I$ Longitudinal Stagger (Y/N)YesCorrosion By Soil (Y/N)NoNo $I$ Corrosion By Soil (Y/N)NoNo $I$ Corrosion By Water (Y/N)YesYes $I$ Total No. of (Y/N)NoNo $I$ No $I$ Corrosion By Water (Y/N)YesYes $I$ No $I$ No $I$ Corrosion By Water (Y/N)YesYes $I$ No $I$ Yes $I$					-
FloorNNCovered with ice.Bulge (mm)0					-
Bulge (mm)0 $<$ Measured At Ring No.4 $<$ Abrasion (Y/N)No $<$ Circumferential Seams77Separation (mm)0 $<$ Longitudinal Seams77Total No. of Cracked Rings0 $<$ Total No. of Cracked Rings0 $<$ Total No. of Cracked Rings0 $<$ Total No. of Rings with Two Cracked Seams0 $<$ Min. Remaining Steel Between Cracks (mm) $<$ $<$ Proper Lap (Y/N)No $<$ $<$ Coating44 $<$ Corrosion By Soil (Y/N)No $<$ $<$ Kono By Water (Y/N)Yes $<$ $<$ Yes $<$ $<$ $<$ Min gabove ice level. $<$ $<$		0	N	N	Covered with ice
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Circumferential Seams   7   7     Separation (mm)   0	v				-
Separation (mm)0Image: Constraint of the second seco		110	7	7	
Longitudinal Seams77Total No. of Cracked Rings0		0	· ·		
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Min. Remaining Steel Between Cracks (mm) No   Proper Lap (Y/N) No   Longitudinal Stagger (Y/N) Yes   Coating 4   Corrosion By Soil (Y/N) No   Ves 4	Cracked Seams				
Longitudinal Stagger (Y/N) Yes   Coating 4 4   Corrosion By Soil (Y/N) No   Corrosion By Water (Y/N) Yes	Min. Remaining Steel Between Cracks (mm)				TIN Stayyer.
Longitudinal Stagger (Y/N) Yes   Coating 4 4   Corrosion By Soil (Y/N) No   Corrosion By Water (Y/N) Yes	Proper Lap (Y/N)	No			
Coating 4 4   Corrosion By Soil (Y/N) No   Corrosion By Water (Y/N) Yes					
Corrosion By Soil (Y/N) No   Corrosion By Water (Y/N) Yes			4	4	Pitting above ice level.
Corrosion By Water (Y/N) Yes		No		· ·	
					1

Bridge Inspection & Maintenance System (Web 2005)

		Brie	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 2134, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	6	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	800 mm x 120 mm dent at 12 o'clock.
Heaving (mm)	250			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		N	N	Riprap and gabions05-May-2009
(Type : <b>RIP RAP</b> )				Snow covered
(Avg. Rock Size(mm) : 200)			-	
Scour/Erosion		N	N	(600 mm deep scour @ end of pipe. Bevel end not supported for 2m. May 5, 2009) Snow covered.
Beavers (Y/N)	No			
Downstream End General Ratin	ng	3	3	GR carried forward.
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			6	
Alignment		8	8	
Bank Stability			8	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom DEGRADING Degrading/Aggrading				
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

78164 -1 Bridge Culvert

Maintenance Recommendations												
Inspector Recomm	nendations		Year	Inspecto	r Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP			2013	(Fill in sc May 5, 2	cour hole & beneth bevels	@ D/S end.						
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS												
	ETE COLLAR/CUTC	DFF										_
REPAIR SEAMS												
OTHER ACTION			2013	Repair be material	ump on road (possibly un used above pipe.)	suitable						
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			66.7/66.	.7 Sufficiency Rating (Last/ (%)		t/Now) 6	63.1/63.0	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection Monitor erosion and rust. Unable to determine if ma			tenance	was done	e due to snow.		Department Comments					
Maintenance Rev	iewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspector's Name Brian		Brian P	Brian Pientsch			Previous /	Previous Assistant's Name Lisbeth Medina					
		14-Sep-2014			Previous I	ous Inspection Date 26-Jan-2011						
Inspection Cycle (		21						1				
Comment												