				Bridg	o ourre								
Bridge File Number 70454 -1 Bridge Culvert						Form Type	;	CUL1	CUL1				
Year Built	1962				Lot No.		4	4					
Bridge or Town N	ame GLE	NDON				Inspector N	Name	Wade Nannin	ga				
Located Over	YELI	ING CREEK, 7.	12.4.3, WA	TERC	RS-ST	Inspector Class BR CLS A							
Located On	28:1	5 C1 25.066				Assistant N	Name						
Water Body CI./Y	'ear					Assistant C	Class						
Navigabil. Cl./Yea	ar					Inspection	Date	10-Apr-2012					
Legal Land Location SW SEC 13 TWP 60 RGE 9 W4N						Data Entry	′ Ву	Lisa Fairhurst	Lisa Fairhurst				
Longitude, Latitud	de -111:	13:38, 54:10:50				Data Entry	Date	25-Apr-2012					
Road Authority	Albe	ta Transportation	n (AIT)			Reviewer N	Name	Eric Carcoux					
Contract Main. A	rea CMA	08				Review Da	ate	25-Apr-2012					
Clear Roadway/S	Skew 11/					Dept. Revie	ewer Nam	Brent Herrick					
AADT/Year	2,530) / 2011 (A)		Dept. Review Date			04-May-2012						
Road Classification	on RAU	-211.8-110			Follow-Up By								
Detour Length (ki	m) 3												
Bridge Culvert I	nformation												
Number of Culve	rts	1											
Pipe # B	arrel	Span	Rise (or	Dia.)	Туре	Ler	ngth	Corr. Profile	PI./Slab Thickness	Shape			
1 M	IAIN	3480	2210		RPP	31.	.7	152X51	4.2	PIPE ARCH			
Special Features	i i												
Special Features	Comment												
				Uti	lities (L	ocated at)							
Utility Attachment	ts												
Telephone South r/w.						Gas							
Power Othere Cakla Cauth -///						Municipal							
Others Cable South r/w.						Problem (Y	r/N) No						
Remarks													
Ap					En Road	Exploration	ment ment	dition					
Horizontal Alignmont		Ld51	7	Local road approaches 50 m West									
		0	0										
		9	9										
						Transverse	e crack in	oadway over pip	e, previously s	ealed.			
Roadway Width (m) 11.000													
Embankment				6	6								
Sideslope (:1) 4.0			-	1									
(Height of Cove	er(m) : 2.5)	-											
Guardrail (Y/N) No													
Approach Road	/ Embankr	nent General Ra	ting	7	7								
					Unstra	am End							
	Culvert Component Last Now Explanation of Condition												
Culvert Compon				N		Water to cr	rown 0.8m						
Culvert Compon								-					
Culvert Compon Direction End Treatment (C Others, None)	Concrete, S	teel, STEEL											
Culvert Compon Direction End Treatment (C Others, None) Headwall	Concrete, S	teel, STEEL		X	X								
Culvert Compon Direction End Treatment (C Others, None) Headwall Collar	Concrete, S	eel, STEEL		X X	X X								
Culvert Compon Direction End Treatment (C Others, None) Headwall Collar Wingwalls	Concrete, S	eel, STEEL		x x x	X X X X								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Cutvert Component Last Now Explanation of Condition Cutoff Wall X X X Bavel End 150 X No evident problems. Under water. No evident problems. Under water. Invert Above/Below Streem Bed BELOW V No evident problems. Under water. No evident problems. Under water. Scour Protection N N No evident problems. Under water. No evident problems. Under water. Kays. Rock Sterling 1:200 No No Security in along sides of bavel. 09/July/2003) Kays. Rock Sterling 1:200 No Security in along sides of bavel. 09/July/2003) Upstream End General Rating V No Security in along sides of bavel. 09/July/2003 Upstream End General Rating V No Security in along sides of bavel. 09/July/2003 Security Tomponent Last No Security in along sides of bavel. 09/July/2003 Security Tomponent Last Accessible Date 09-Jul-2003 No Security in along sides of bavel. 09/July/2004 Security Tomponent Last Accessible Date 09-Jul-2003 No Security in along sind row on to water, viewed from ends. No fanorown to water, view	Upstream End									
Cutoff WallIXXXBevel ErdINNNHeaving (mm)150IUnder waler.Inver Above/Below (mm)100IIAbove/Below (mm)100IISocur Protech(mm)Socur Protech(mm)II(Type : HIP RAP)III(Type : RIP RAP)IIIBeavers (V/N)NoII(Pige 4 : 1, Pinatry Span, Location (SMIN)II(Pige 4 : 1, Pinatry Span, Location (SMIN)II(Pige 4 : 1, Pinatry Span, Location (SMIN)IISpecial FeatureIII(Type :)III(Type :)III(Type :)II(Type :)II(Type : III(Type : III<	Culvert Component		Last	Now	Explanation of Condition					
New Pick IndToNNNew Value of Control	Cutoff Wall		X	X						
Bevel radNNNNNNoNoNoNoNoNoNoNoNoNoGrassed over09-Aug-2008 Gettement upto 300, 1m along sides of bevel. 09.July/2003)Control of the control of the										
Treat Above/Below Stream Bel BELC/WImage: Stream Bel Bel BELC/WImage: Stream Bel	Bevel End	Bevel End		N	No evident problems. Under water.					
Invert Above/Below Stram Bed BELOW INVERSION STRAM BODE STREET S	Heaving (mm)	150								
Above/Below (mm)100Image: transmission of t	Invert Above/Below Stream Bed	BELOW			(09/July/2003)					
Scour ProtectionNNRRise and SectionCrassed over-09-Aug-2008(Avg. Rock Size (mm): 250)Sour/ErosionNNNSour/ErosionNNNBeavers (Y/N)NoSource (Streament upto)Source (Streament upto)Source (Streament upto)Upstream End General RatingNoSource (Streament upto)Source (Streament upto)Source (Streament upto)Upstream End General RatingNoSource (Streament upto)Source (Streament upto)Source (Streament upto)Upstream End General RatingNoSource (Streament upto)Source (Streament upto)Source (Streament upto)Upstream End General RatingOpstreament upto)Source (Streament upto)Source (Streament upto)Source (Streament upto)Upstream End ComponentLast NowNowExplanation of ConditionSource (Streament upto)Upstream End ComponentLast NowExplanation of ConditionSource (Streament upto)Special FeatureOpstreament upto)Source (Streament upto)Source (Streament upto)(Type :)Special FeatureImage: Streament upto)Source (Streament upto)Special FeatureImage: Streament upto)Image: Streament upto)Source (Streament upto)(Type :)Special FeatureImage: Streament upto)Image: Streament upto)Special FeatureImage: Streament upto)Image: Streament upto)Measured Rise (mm)Streament upto)Image: Streament upto)Special FeatureImage: Streament upto)Image: Streament up	Above/Below (mm)	100			l					
$ \begin{array}{ $	Scour Protection		N	N	Grassed over09-Aug-2008					
$ \begin{array}{ $	(Type : RIP RAP)									
Scour/ErosionNNNBeavers (Y/N)NoVFUpstream End General Rating66G.R. carried forward from 12/Nov/2006.Brick Scourse Curvert BarrelCulvert ComponentLastNowExplanation of ConditionPrice RPPBarrel Last Accessible Date09-Jul-2003VExplanation of ConditionSpecial Features09-Jul-2003VExplanation of ConditionSpecial Features09-Jul-2003VNoSpecial FeaturesSpecial FeatureNoSpecial FeatureVNo(Type :)Special FeatureVSpecial FeatureVNo(Type :)VVRoofTNMeasured Rise (mm)2160VPercent Sag2VSidewallNoNoMeasured At Ring No.VDeflection (mm)0VPercent Deflection 0VNoNoBuge (mm)0Buge (mm)0Separation (YN)NoCircumferentia SeamsNSeparation (mm)0Circumferentia SeamsNSeparation (mm)0Circumferentia SeamsNSeparation (mm)0Circumferentia SeamsNSeparation (mm)0Circumferentia SeamsNNNSeparation (mm)0Circumferentia SeamsNNo Cracked Ring 3 <td>(Avg. Rock Size(mm) : 250)</td> <td></td> <td>1</td> <td>1</td> <td></td>	(Avg. Rock Size(mm) : 250)		1	1						
Beavers (Y/N) No Image: Constraint of the second sec	Scour/Erosion		N	N						
Upstream End General RatingoGGGG. R. carried forward from 12/Nov/2006.Bridge curver BarrelCurver BarrelCurver BarrelCurver BarrelCurver BarrelBarrel Last Accessible Date09-Jul-2003 $V = V = V$ OBm crown to water, viewed from ends. No issues apparent.Special Feature(Type :Special Feature(Type :)Special Feature(Type :)Special Feature(Type :)Red7NNeasured Rise (mm)21602160Masured At Ring No.Special FeatureNNNMeasured At Ring No.2160Percent Sag22NNNMeasured At Ring No.2Percent Deflection02Percent Deflection0Curver Colspan="2">Special FeatureNNBulge (mm)3480Special FeatureNNNPercent Deflection0Curver FeatureNNNN <td>Beavers (Y/N)</td> <td>No</td> <td></td> <td>-1</td> <td></td>	Beavers (Y/N)	No		-1						
Upstream End General Rating66G.R. carned forward from 12/Nov/2006.Bridge Cut/vert BarrelCut/vert ComponentLastNowExplanation of Condition(Pipe # : 1, Primary Span, Location Code: MAIN, SpanQ.B.Rise (nm): 2210, Type: RPP)Barrel Last Accessible Date09-Jul-20030.B.m crown to water, viewed from ends. No issues apparent.Special FeaturesImage: Cut/vert Barrel Last Accessible Date09-Jul-20030.B.m crown to water, viewed from ends. No issues apparent.Special FeatureImage: Cut/vert Barrel Last Accessible Date1mage: Cut/vert Barrel Last Accessible Date0.B.m crown to water, viewed from ends. No issues apparent.Special FeatureImage: Cut/vert Barrel Last Accessible Date1mage: Cut/vert Barrel Last Accessible Date0.B.m crown to water, viewed from ends. No issues apparent.Special FeatureImage: Cut/vert Barrel Last Accessible Date1mage: Cut/vert Barrel Last Accessible Date0.B.m crown to water, viewed from ends. No issues apparent.Special FeatureImage: Cut/vert Barrel Last Accessible Date1mage: Cut/vert Barrel Last Accessible Date0.B.m com/vert Barrel Last Accessible DateRoofTTNNNMeasured At Ring No.Image: Cut/vert Barrel Last At Ring No.Image: Cut/vert Barrel Last At Ring No.NBulge (mm)QImage: Cut/vert Barrel Last At Ring No.NNSeparation (mm)QImage: Cut/vert Barrel Last At Ring No.NNSeparation (mm)QImage: Cut/vert Barrel Last At Ring No.			•	•						
Bridge Culvert BarrelCulvert ComponentLastNowExplanation of Condition(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 3480, Rise (mm): 2210, Type: RPP)Sale converting (see (mm): 2210, Type: RPP)Barrel Last Accessible Date0-Jul-2003See (mm): 2210, Type: RPP)Special FeaturesSpecial FeatureImage: Special FeatureImage: Special Feature(Type :)Image: Special FeatureImage: Special FeatureImage: Special FeatureSpecial FeatureImage: Special FeatureImage: Special Feature	Upstream End General Rating		6	6	G.R. carried forward from 12/Nov/2006.					
Culvert ComponentIdeaNowExplanation of Condition(Pipe #: 1, Primary Span, Loca: Code: MAIN, SpanSine (mi): 2210, Type: RPP)Barrel Last Accessible Date09-Jul-20030.8m crown to water.Special Featuresi0.8m crown to water.Special FeaturesiiSpecial FeatureiiSpecial FeatureiiSpecial FeatureiiSpecial FeatureiiSpecial FeatureiiSpecial FeatureiiType :)iiSpecial FeatureiiSpecial FeatureiiType :)iiSpecial FeatureiiType :)iiSpecial FeatureiiSpecial FeatureiiType :)iiRoofiiMeasured Rise (mm)2160iSag (mm)50iSag (amn)50iPercent SagiiSidewalliiMeasured At Ring No.iiDeflection (mm)0iBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiBueg (mm)iiSeparation (mm)0<			Bric	dge Cu	lvert Barrel					
(Pipe # : 1, Primary Span, Locatton Code: MAIN, Span (mm): 3480, Rise (mm): 2210, Type: RPP) Barrel Last Accessible Date 09-Jul-2003 0.8 m crown to water, viewed from ends. No issues apparent. Special Features 0.8 m crown to water, viewed from ends. No issues apparent. 0.8 m crown to water, viewed from ends. Special Feature 0 0.8 m crown to water, viewed from ends. Special Feature 0 0 (Type :)	Culvert Component		Last	Now	Explanation of Condition					
Barrel Last Accessible Date 09-Jul-2003 $I I I I I I I I I I I I I I I I I I I $	(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 3480	, Rise (mm): 2210, Type: RPP)					
Special FeaturesSpecial FeatureI(Type :)ISpecial FeatureI(Type :)ISpecial FeatureI(Type :)IRoof7NMeasured Rise (mm)21602IMeasured At Ring No.I5092Percent Sag22ISidewallNMeasured At Ring No.I9480Measured Span (mm)34809IPercent Deflection (mm)00IPercent Deflection (mm)00IPercent Deflection (mm)00IFloorNNNBulge (mm)I0ICircumferential SeamsNNNSeparation (mm)30ICircumferential SeamsNTotal No. of Cracked Rings310tal No. of Cracked Rings310tal No. of Cracked Rings310tal No. of Cracked Rings120	Barrel Last Accessible Date	09-Jul-2003			0.8m crown to water, viewed from ends. No issues apparent.					
Special FeatureII(Type :)IISpecial FeatureII(Type :)IIRoof2160IMeasured Rise (mm)2160IMeasured At Ring No.50IPercent Sag2ISidewallNNMeasured Span (mm)3480IDeflection (mm)0IPercent Deflection0IPercent Deflection0IFloorNNBulge (mm)GIBulge (mm)IISeparation (mm)0ICircumferential SeamsNNSeparation (mm)0IConditional SeamsNNTotal No. of Cracked Rings3ITotal No. of Cracked Rings3ITotal No. of Cracked Rings120Min Remaining Steel120	Special Features									
$\begin{array}{ $	Special Feature									
Special FeatureI(Type :)Roof7NMeasured Rise (mm)2160Measured Rise (mm)2160Sag (mm)50Sold (mm)50Percent Sag2SidewallNMeasured At Ring No.NMeasured At Ring No.(At C/I , rise 2160 (2%). 2003/07/09)Measured Span (mm)3480Measured At Ring No.(At C/I , span 3480 (0%). 2003/07/09)Measured At Ring No.(At C/I , span 3480 (0%). 2003/07/09)Percent Deflection0Percent Deflection0Percent Deflection0FloorNBulge (mm)CAbrasion (Y/N)NoCircumferential SeamsNSeparatin (mm)0Congitudinal SeamsNNNTotal No. of Cracked Rings3Total No. of Rings with Two Cracked SeamsNNin Remaining Steel120	(Type:)									
$ \begin{array}{ $	Special Feature									
Roof 7 N (At c/l, rise 2160 (2%). 2003/07/09) Measured Rise (mm) 2160	(Type:)									
Measured Rise (mm) 2160 Image: Provide Provid	Roof		7	N	(At c/L rise 2160 (2%), 2003/07/09)					
Measured At Ring No. Image: Second seco	Measured Rise (mm)	2160								
No. N N N At c/l, span 3480 (0%). 2003/07/09) Measured Span (mm) 3480	Measured At Ring No	2100								
Order Order Percent Sag 2 Sidewall N N Measured Span (mm) 3480 Measured Span (mm) 3480 Measured At Ring No. Image: Constraint of the state	Sag (mm)	50								
Sidewall N N N N Measured Span (mm) 3480	Percent Sag	2			-					
Image: Main and Market Span (mm) 3480 Measured At Ring No. 0 Deflection (mm) 0 Percent Deflection 0 Floor N N Bulge (mm)	Sidewall	2	N	N	(At c/L span 3480 (0%) 2003/07/09)					
Measured At Ring No. 0	Measured Span (mm)	3/180			(1. 0/1, Span 0+00 (070). 2000/07/03)					
Measured At Ring No. Image of the second s	Measured At Ring No	0400								
Denection (nm) 0 Image: second s	Deflection (mm)	0								
Floor N N Bulge (mm) Image: Constraint of the second	Percent Deflection	0								
N N N Bulge (mm) Image: Search of the search		0	N	N						
Buige (mm) Measured At Ring No. Image: Constraint of the second sec			IN	IN						
Measured At King No. No N Abrasion (Y/N) No N Circumferential Seams N N Separation (mm) 0										
Abrasion (T/N) No N N Circumferential Seams N N N Separation (mm) 0 Image: Construction of the seame of the sea	Abrasian (V/N)	No								
N N N Separation (mm) 0 V Longitudinal Seams N N N Total No. of Cracked Rings 3 V V Remaining Steel 120 Min. Remaining Steel 120 120 V N N		INO	•							
Separation (mm) 0 N N (R5, 6 & 7 have cracks @ 9I with 120mm between cracks. Longitudinal Seams 3 2001/09/18) Water level over seams, cannot view. 2003/07/09) Total No. of Rings with Two Cracked Seams 120 120		0	N	N						
Longitudinal Seams N N (R5, 6 & 7 have cracks @ 91 with 120mm between cracks. Total No. of Cracked Rings 3 2001/09/18) (Water level over seams, cannot view. 2003/07/09) Total No. of Rings with Two Cracked Seams 120 120	Separation (mm)	U	•							
Total No. of Cracked Rings 3 (Water level over seams, cannot view. 2003/07/09) Total No. of Rings with Two Cracked Seams 120	Longitudinal Seams	-	N	N	(R5, 6 & 7 have cracks @ 9I with 120mm between cracks.					
Total No. of Rings with Two Cracked Seams Min. Remaining Steel 120	Iotal No. of Cracked Rings	3			(Water level over seams, cannot view. 2003/07/09)					
Min Remaining Steel 120	Total No. of Rings with Two Cracked Seams									
Between Cracks (mm)	Min. Remaining Steel Between Cracks (mm)	120								
Proper Lap (Y/N) No	Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N) No	Longitudinal Stagger (Y/N)	No								
Coating N N (Scaling, pitting rust on lower 1/2. 2003/07/09)	Coating		N	N	(Scaling, pitting rust on lower 1/2. 2003/07/09)					
Corrosion By Soil (Y/N)	Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N) Yes	Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG NEG	Camber POS/ZERO/NEG	NEG								

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Bridge Inspection & Maintenance System (Web 2005)

70454 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 3480	, Rise (mm): 2210, Type: RPP)					
Ponding (Y/N)	Yes			(Ponding 0.7m. 20/Apr/2005)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type :)									
Waterway Adequacy		6	6						
Icing (Y/N)	No			(20/April/2005)					
Silting (Y/N)	No			(20/Aph//2003)					
Drift (Y/N)	No								
Barrel General Rating		4	4	Carried forward since 09/July/2003 due to cracked seam.					
		ח	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	<u> </u>	S	non	Water to crown 0 6m					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	X						
Bevel End	1	N	N	No evident problems.					
Heaving (mm)	100								
vert Above/Below Stream Bed ABOVE				(09/July/2003)					
Above/Below (mm)	Above/Below (mm) 100		-						
Scour Protection		N	N	Grassed over09-Aug-2008					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	5	G.R. corrected and carried forward from 12/Nov/2006					
		s	Structur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7	Gentle curves to/from site in both directions.					
Bank Stability			8						
HWM (m below Top of Culvert)				Drift on crown @ u/s end.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

Maintenance Recommendations										
Inspector Recommendations Year			Inspector Comments	Department Com	Department Comments				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										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		4.4/44.4	4 Sufficiency Rating (Last/Now) (%)	54.8/53.8	54.8/53.8 Est. Repl. Yr 2028		Maint. Reqd. (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 Shane H			Prev	vious Assistant's Name						
Next Inspection Date	10-Jan-2	2014	Prev	revious Inspection Date 16-Jul-2010						
Inspection Cycle (Default) (months)	21			•						
Comment										