					Brida	e Culve	ert Inspe	ection					
Bridge File Number 79182 -1 Bridge Culvert				Direc	o ourve	Form Type		CULM					
Year Built 1982			-1 Bridge Curvert				Lot No.		1				
Bridge or Town	Name								Tom Carey				
							Inspector Class		BR CLS A				
			1 11.101	., ., _, .				nt Name		BIX GEG /X			
Water Body Cl./Year							Assistant Class						
Navigabil. Cl./Year							Inspection Date		10-Feb-2010				
										Kelsey Roberts			
								ntry Date		03-Mar-2010			
			ransportation	(AIT)				Reviewer Name Garry Roberts					
		CMA23	- carrop or tallor.	(,)			Review Date 23-Feb-2010						
			deg. (RHF)				Dept. Reviewer Name Lorenz Bohnert						
		650 / 200						eview Date		08-Mar-2010			
Road Classifica	ation	RCU-209					Follow-		-				
Detour Length		30											
Bridge Culvert	`									1			
Number of Culv		2)										
Pipe #	Barrel	5	Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	3	8610	2500		RPE		39.6		152X51		ELLIPSE	
2	MAIN	3	8610	2500		RPE		39.6		152X51		ELLIPSE	
Special Feature	es												
Special Feature	es Comi	ment											
·													
					Uti	ilities (L	ocated	at)					
Utility Attachme							1						
Telephone	South				Gas		('s ro	ad 100 m E.					
Power			road 30m W				Municip						
Others	Goes	S. 50 m V	V.				Probler	n (Y/N) N	10				
Remarks				Δ		-b Dage	l / Eb.						
								inkment ation of Co	ondi	tion			
Horizontal Aligr	ment				8	8		anks ent -					
Vertical Alignm					9	9	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
Roadway Width			9.300										
	. ()		0.000			_							
Embankment						N	Snow						
Sideslope (_:1)		4.0										
(Height of Co	ver (m)	: 2.2)	_										
Guardrail (Y/N)			No										
Approach Roa	d / Eml	bankmen	t General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of Co	ondi	tion			
(Pipe #: 1, Sp	an Type	e: Primar	y Span)										
Direction			N North end west pipe			oe							
End Treatment Others, None)	(Concre	ete, Steel,	STEEL										
Headwall					Х	Х							
Collar	Collar				Х	Х							
Wingwalls					Х	X							
(Shape:)													

79182 -1 Bridge Culvert

			Unetro	am End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	Last	11011	Explanation of condition
Cutoff Wall	, • • • • • • • • • • • • • • • • • • •	X	X	
Odton Wall				
Bevel End		N	N	(MINOR CORROSION) 990128
Heaving (mm)	60			Snow covered
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500		_	
Scour Protection		N	N	snow covered
(Type:)				
(Avg. Rock Size (mm) :)		1	1	
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Upstream End General Rating		6	N	
Opstream End General Rating		0	I N	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı): 3610	, Rise (mm): 2500, Type: RPE)
Barrel Last Accessible Date	10-Feb-2010			West pipe
Special Features				
Special Features Special Feature				
(Type :) Special Feature				
(Type:)				
Roof		7	7	ESTIMATE
Measured Rise (mm)		/		ESTIVIATE
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	INWARD
Measured Span (mm)	3510	,		IIIWAKU
Measured At Ring No.	4			
Deflection (mm)	100			
Percent Deflection	2			
Floor	_	N	N	ice covered
Bulge (mm)				1.55 55.5.54
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)		,		-
Longitudinal Seams		7	7	
Total No. of Cracked Rings 0		,		
Total No. of Rings with Two 0				
Cracked Seams Min. Remaining Steel 0				
Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating	V	6	5	Surface corrosion throughout @ sidewalls
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 3610	, Rise (mm): 2500, Type: RPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)			_	
Waterway Adequacy	T	7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction End Treatment (Concrete, Steel,	STEFL	S		South end West pipe
Others, None)	0.222			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)			_	
Cutoff Wall		X	X	
Bevel End		N	6	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500		_	
Scour Protection		N	N	snow covered
(Type:)				
(Avg. Rock Size (mm):)				
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	N	
			□ Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		North end of west pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	

79182 -1 Bridge Culvert

Last Now Explanation of Condition				Upstre	eam End
Pope #: 2, Span Type: Secondary Span	Culvert Component				
Heaving (mm)	(Pipe # : 2, Span Type: Second	ary Span)			
Internal promise Bet LOW	Bevel End		N	N	(MINOR CORROSION) 990128
Above/Below (mm) 500 Soour Frotection N N N Grow Frotection N N N Beavers (V/N) No Upstream End General Rating 5 N Bridge Culvert Barre Last Now Explanation of Condition (Pipe # 2, Secondary Span, Location Code: MAIN, Span (mm): 3610, Rise (mm): 2500, Type: RPE) Barrel Last Accessible Date Special Feature Special Feature (Type:) Special Feature (Type:) Roof Measured Ring No. Sag (mm) 0 Percent Sag Sidewall Measured At Ring No. Sag (mm) 100 Percent Deflection 2 Floor N N N In N In N In N N In N	Heaving (mm)	0			snow covered
Scour Protection N N N N N N N N N N	Invert Above/Below Stream Bed	BELOW			
(Type :) (Avg. Rock Size (mm) :) (Avg. Rock	Above/Below (mm)	500			
Avg. Rock Size (mm):) N	Scour Protection		N	N	snow covered
Scour/Erosion N N N	(Type:)				
Description	(Avg. Rock Size (mm):)				
Upstream End General Rating Bridge Culvert Barrol	Scour/Erosion		N	N	
Stridge Culvert Component Last Now Explanation of Condition	Beavers (Y/N)	No			
Last Now Explanation of Condition	Upstream End General Rating		5	N	
Last Now Explanation of Condition			D ri.	dao Cu	Ivert Parrel
CPipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 3610, Rise (mm): 2500, Type: RPE	Culvert Component				
Barrel Last Accessible Date Special Feature (Type :) Roof Reasured Rise (mm) Measured At Ring No. Sag (mm) O Percent Sag Measured Span (mm) Measured Span (mm) Measured At Ring No. Sidewall Measured Span (mm) 100 Percent Deflection Percent Deflection Supple (mm) Measured At Ring No. Abrasion (YN) Circumferential Seams 7 7 7 Separation (mm) Longitudinal Seams 7 7 7 Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (YN) Longitudinal Stagger (YN) No Longitudinal Stagger (YN) Longitudinal Stagger (YN) No Coating Corrosion By Soli (YN) Yes Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	·	cation Code: MAIN. S			
Special Feature (Type :) Roof 8 3 3 Estimated Corrosion perforation @ Ring #2 Measured Rise (mm) Measured At Ring No. Sag (mm) OPercent Sag Sidewall 8 8 8 INWARD Measured At Ring No. 3 10 Measured At Ring No. 3 10 Deflection (mm) Percent Deflection 2 Floor Sulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 7 Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Coating Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Coating Corrosion By Soil (Y/N) Yes East pipe		,	(,,,,,,	
East pipe	Dairor East / toossolble Date				
Type : Special Feature	Special Features				
Special Feature Common	Special Feature				East pipe
Type : Roof	(Type:)				
Roof 8 3 Estimated Corrosion perforation @ Ring #2	Special Feature				
Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured At Ring No. 3	(Type:)				
Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured Span (mm) Measured Span (mm) Measured At Ring No. Deflection (mm) 100 Percent Deflection 2 Floor N N N Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Coating Corrosion By Soil (Y/N) Saguration (Min Ves Several areas of corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Roof		8	3	
Sag (mm) 0 Percent Sag Sidewall 8 8 INWARD Measured Span (mm) 3510 Measured At Ring No. 3 Deflection (mm) 100 Percent Deflection 2 Floor N N N icc covered Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 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 Coating 6 3 Corrosion By Soil (Y/N) Yes Separation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Measured Rise (mm)				Corrosion perforation @ Ring #2
Percent Sag Sidewall 8 8 8 INWARD	Measured At Ring No.				
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Rully (mm) Measured At Ring No. Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No Coating Corrosion By Soil (Y/N) Corrosion By Soil (Y/N) Yes INWARD INWA	Sag (mm)	0			
Measured Span (mm) 3510 Measured At Ring No. 3 Deflection (mm) 100 Percent Deflection 2 Floor N N N ice covered Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Percent Sag				
Measured At Ring No. 3 Deflection (mm) 100 Percent Deflection 2 Floor N N N Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Sidewall		8	8	INWARD
Deflection (mm) 100 Percent Deflection 2 Floor N N N ice covered Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Corrosion By Soil (Y/N) Yes Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Measured Span (mm)	3510			
Percent Deflection 2 Floor	Measured At Ring No.	3			
Floor N N N N ice covered Bulge (mm)	Deflection (mm)	100			
Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) Longitudinal Stagger (Y/N) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Percent Deflection	2			
Measured At Ring No. Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Floor		N	N	ice covered
Abrasion (Y/N) Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Corrosion By Soil (Y/N) Yes Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Bulge (mm)				
Circumferential Seams 7 7 Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Measured At Ring No.				
Separation (mm) Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Abrasion (Y/N)				
Longitudinal Seams 7 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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Circumferential Seams		7	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) No Coating 6 3 Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Separation (mm)				
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) No Coating Corrosion By Soil (Y/N) Yes Corrosion By Water (Y/N) Yes Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Longitudinal Seams		7	7	
Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) No Coating Corrosion By Soil (Y/N) Corrosion By Water (Y/N) Yes Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Total No. of Cracked Rings	0			
Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) No Coating Corrosion By Soil (Y/N) Corrosion By Water (Y/N) Yes Several areas of corrosion spots @ Roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Total No. of Rings with Two Cracked Seams				
Proper Lap (Y/N) No Longitudinal Stagger (Y/N) No Coating 6 3 Surface corrosion throughout @ sidewalls. Corrosion By Soil (Y/N) Yes Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	Min. Remaining Steel Between Cracks (mm)				
Longitudinal Stagger (Y/N) No Coating 6 3 Surface corrosion throughout @ sidewalls. Corrosion By Soil (Y/N) Yes Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.	` ,	No			
Coating Corrosion By Soil (Y/N) Corrosion By Water (Y/N) Yes Surface corrosion throughout @ sidewalls. Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2.		No			
Corrosion By Soil (Y/N) Yes Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2. Several areas of corrosion spots @ Roof @ Ring 2. Yes			6	3	Surface corrosion throughout @ sidewalls.
Corrosion By Water (Y/N) Yes		Yes			Isolated 25mm Dia. corrosion perforation @ roof @ Ring 2.
	-				। Several areas of corrosion spots ७ Koof ७ King 2.
	Camber POS/ZERO/NEG	ZERO			

		Brid	dae Cu	Ivert Barrel
Culvert Component		1	T -	Explanation of Condition
_	cation Code: MAIN, S			610, Rise (mm): 2500, Type: RPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	3	
			ownstr	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Lasi	INOW	Explanation of Condition
Direction	ary Spari)	S		South and of East nine
End Treatment (Concrete, Steel, Others, None)	STEEL	3		South end of East pipe
Headwall		Х	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		N	6	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	N	snow covered
(Type:)				
(Avg. Rock Size (mm):)				
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	N	
			truotu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)		Lasi	INOW	Explanation of Condition
Alignment		7	7	(460mm CSP in SE corner of canal bank)
Bank Stability		6	N	Snow
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :				
Channel General Rating	<u>-</u>	7	7	G.R. carried forward
				I and the second

		Maintenan	ce Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Cor	Department Comments					
SHOTCRETE REPAIRS		·	·						
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 77.8/3	Sufficiency Rating ((%)	Last/Now) 70.8/50.0	Est. Repl. Yr 202	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection			Department Comments						
Maintenance Reviewed By			Date		Estimated Tota	1 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tim Davies		Previous Assistant's Name						
Next Inspection Date	10-May-2013		Previous Inspection Date	22-Feb-2007					
	· -								
Inspection Cycle (Default) (months)	39								