					Brida	e Culve	ert Insp	ection					
Bridge File Number 02090 -1 Bridge Culvert						Form Type		CUL1					
Year Built 1986						Lot No.		4					
Bridge or Town Name ONOWAY						Inspector Name		Melanie Johnson					
							Inspector Class		BR CLS B				
WATERCRS-ST			,		Assistant Name		DIVIDED D						
Located On 642:02 C1 1.476						Assistant Class							
Water Body Cl.							Inspection Date		28-Jun-2011				
Navigabil. Cl./Year						Data Entry By		Theresa Lacusta					
Legal Land Loc			C 1 TWP 56 RG	E 2 W5M			Data Entry Date		06-Jul-2011				
Longitude, Latit	ude		9:11, 53:48:11				Reviewer Name		Arnold Assenheimer				
Road Authority			Transportation	(AIT)			Review Date		29-Jun-2011				
Contract Main.		CMA09					Dept. Reviewer Name		Brian Adams				
Clear Roadway	/Skew		45 deg. (LHF)				Dept. Review Date		20-Nov-2012				
AADT/Year		390 / 20	` ,				Follow	-Uр Ву					
Road Classifica		RCU-20	09-110				-						
Detour Length (5											
Bridge Culvert		ation											
Number of Culv			1	D: /	D: \	_		Length		0 5 61	DI (OL I		
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре				Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		3645	2215	RPE			47.6		152X51	3.0,3.0,3.0	ELLIPSE	
Special Feature	es		VERT STEEL	STRUTS							· · ·		
Special Feature		ment											
·													
					Uti	ilities (L	_ocated	at)					
Utility Attachme		<u>.</u>							1				
Telephone South r/w.						Gas							
Power	4 lines	s OH North r/w.						Municipal Problem (Y/N) No					
Others	DE (Proble	m (Y/N)	No				
Remarks	BF tag	g installe	ed on top of Nor			ah Daa	d / Emb	ankment					
				Aļ		Now				tion			
Horizontal Align	ment				7	7	Explanation of Condition Farm entrance to NW & SE.						
Vertical Alignme					7	7	1						
Roadway Width			9.500		•								
Roadway Widti	1 (111)		9.500										
Embankment					4	4	Farm e	ntrance t	o NW 6	& SE.			
Sideslope (_:1)		4.0										
(Height of Co	ver(m) :	1.5)					Roadway ACP cracks at both shoulders & across roadway on skew						
							over pipé - sealed. (Gully in SE ditch (0.6 x 0.25 x 20m long) not impact embankment.			m long). Does			
Guardrail (Y/N) Yes													
Courain (1714)													
Approach Roa	d / Emb	oankme	nt General Rat	ing	6	7							
						Unstre	⊣ am End						
Culvert Component			Last			ation of	Condi	tion					
Direction					N								
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			Х	X									
Collar			X	Х									
Wingwalls			Х	Х									
(Shape:)							1						

02090 -1 Bridge Culvert

			linetra	am End
Culvert Component			Now	Explanation of Condition
Cutoff Wall		X	X	Explanation of Condition
Bevel End	T	7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			Snow covered.
Above/Below (mm)	300		_	
Scour Protection		N	5	Up to 300mm of settlement along sides of bevel.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			_	
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating	1	5	5	
		D.:	less Oss	Lord Parcel
Culvert Component				Explanation of Condition
	tion Code, MAIN Co			· •
(Pipe # : 1, Primary Span, Loca		oan (mm): 3645	
Barrel Last Accessible Date	10-Mar-2008			(Ring 4 - 3737 x 1875. Aug.21/03) (Ring 7 - 3701 x 1960. Aug. 21/03) Viewed from ends, appears to be no change in shape. Water 1.0m deep.
Special Features				
Special Feature		7	N	
(Type: VERT STEEL STRUTS)				
Special Feature				
(Type:)				
Roof		2	N	(Ring 4, 15.4%. Aug/21/03) Can't confirm due to ice on floor10-
Measured Rise (mm)	1875			Mar-2008
Measured At Ring No.	7			
Sag (mm)	340			
Percent Sag	15			
Sidewall		5	N	(Ring 4, 2.5%. Aug/21/03) No change10-Mar-2008
Measured Span (mm)	3737			(mg , ===, m, mg, = ,, ==)
Measured At Ring No.	4			
Deflection (mm)	92			
Percent Deflection	3			
Floor		N	N	Iced over10-Mar-2008
Bulge (mm)				1333 3.31. 10 Mai 2000
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	N	
Separation (mm)	0	J	1.4	
Longitudinal Seams	J	5	N	
Total No. of Cracked Rings	0	3	11	
Total No. of Rings with Two	U			-
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Bottom half minor superficial rust.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

		Brio	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 3645	, Rise (mm): 2215, Type: RPE)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)			1	
Waterway Adequacy		6	6	Adequacy reduced due to presence of struts.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	3	GR increased 1 point for struts
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		N	6	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	5	Settlement of fill & riprap along sides of bevel up to 300mm. Riprap grassed over with slough grass.
(Type : RIP RAP)				grassed over with slough grass.
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	5	
		S	tructur	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	7	
Bank Stability		8	7	
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			

Structure Usage								
	Las	st	Explanation of Condition					
(Fish Compensation Measure 1 : N	IONE)							
(Fish Compensation Measure 2 : NONE)								
Channel General Rating 8 7			7					

		Maintenance R	Recommend	dations					
Inspector Recommendations	Year	Inspector Comments		Department Com	ments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 22.2/33	.3 Sufficiency Rating (Last	:/Now)	46.6/50.1	Est. Repl. Yr	2015	Maint. Re	qd. (Y/N)	No
Special Monitor deflections. Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		Previous	s Assistant's Name Bryce Clayton					
Next Inspection Date	28-Sep-2014		Inspection Date	10-Mar-2008					
Inspection Cycle (Default) (months)	39								
Comment									