					Bridg	e Culve	rt Insp	ection						
Bridge File Number 71983 -1 Bridge Culvert Year Built 1982							Form Type			CUL1				
Year Built 1982 Bridge or Town Name MARLBORO						Lot No.				4				
Bridge or Town I	Name	MARLB	ORO				·			Shane Hall				
Located Over		TRIBUT	TARY TO MCLE	OD RIVE	ER,		Inspec	tor Class		BR CLS A				
Located On			7.35, WATERC		:0		Assistant Name							
Water Body Cl./		10.04 L	1 22.926;16:04	K1 22.90	0		Assistant Class							
							Inspection Date			11-Aug-2012				
Navigabil. Cl./Ye		C/M/ CE/	C 6 TWP 53 RG	NE 20 W/5	. N. A		Data Entry By			Theresa Lacu	sta			
Longitude, Latitu				3E 20 VV3	IVI		Data Entry Date			19-Sep-2012				
Road Authority			Transportation	/			Reviev	ver Name		Eric Carcoux				
Contract Main. A		CMA13	•	(AII)			Reviev	v Date		27-Aug-2012				
Clear Roadway/Skew 25.2 / -5 d AADT/Year 6,080 / 20 Road Classification RAD-412.4							Reviewer							
AADT/Year 6,080 / 20				Dept. Review Date			09-Oct-2012							
								Follow-Up By						
Detour Length (k			2.1 120				-							
Bridge Culvert		-					1							
Number of Culve			1											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 N	MAIN		_	1500		SP		128.7		152X51	2.8	ROUND		
Special Features														
Special Features		ent												
Utilities (Located at)														
Utility Attachmer	<u> </u>						Gas		C====	20 North				
Telephone	North r		Oom North					nal	Closs	es 30 m North.				
Power 4 wires O/H 100m I Others Survey markers at							Munici	pai m (Y/N)) No					
Remarks			ce U/S, rusty.				FIODIE	III (171 N)	INO					
Remarks	i lie tag	j ili piac	e 0/0, rusty.	Δι	onroad	ch Road	l / Emb	ankment						
					Last			nation of		tion				
Horizontal Alignment				7 7			Gradual curve.							
Vertical Alignme	nt				8	8								
Roadway Width (m)		25.200				EBL 12.9 WBL 12.3m								
Embankment					5	5	Gully	on SW en	nbankn	nent, 40m x 2m	wide x 1.5m	deep. Vegetated.		
Sideslope (:	1)		3.0				Stable							
(Height of Cov	er(m) : 1	11.2)												
Guardrail (Y/N)			Yes	s			N side of WBL only.							
Approach Road	d / Emba	ankmeı	nt General Rati	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion				
Direction					N									
End Treatment (Others, None)	Concret	te, Stee	I, STEEL											
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	Х								
(Shape:)														
Cutoff Wall					Х	X								

71983 -1 Bridge Culvert

Only and Comment				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	500	6	5	
Heaving (mm)	500			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100		1	
Scour Protection		4	4	Bevel undermined 1.5m+
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 700)			1	
Scour/Erosion		4	4	Loss of fill along bevel.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	11-Aug-2012			
Special Features				
Special Feature				Drain at median blocked.
(Type:)				
Special Feature				
(Type:)				
Roof		NI NI		Doct much ad up providence at six add
	4.470	N	6	Roof pushed up max 60mm at ring14.
Measured Rise (mm)	1476			near cl
Measured At Ring No.	0.4			
Sag (mm)	24			
Percent Sag	2			
Sidewall	I	N	5	W sidewall pushed in from ring 5 to near culvert cl-max inward deflection-60mm at ring 14.
Measured Span (mm)	1520			_
Measured At Ring No.				Construction damage/tear in W sidewall at ring 14photo Barrel has long bend in culvert, appears that sidewall is significantly
Deflection (mm)	20			pushed in when viewed from end but shape is good.
Percent Deflection	17		_	
Floor		N	5	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	
Separation (mm)	0			
Longitudinal Seams		N	5	
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		N	5	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1500, Type: SP)
Fish Passage Adequacy		5	5	
Baffle		N	Х	
(Type:)				
Waterway Adequacy		6	6	(Silt stains on roof - high water capacity. 09/Mar/2007)
Icing (Y/N)	Yes			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	5	
		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		Х	Х	
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N) No				
Downstream End General Ratin	ng	6	6	
		s	tructu	re Usage
	Accepted a correct of the correct			Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Meandering stream.
Bank Stability		7	7	
HWM (m below Top of Culvert)				To crown-maybe higher, grass on roof boltsphoto
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				Observat have see the advist most.
Channel Bottom Degrading/Aggrading				Channel bottom lined with rock.
Beavers (Y/N)				
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NUNE)	7	-	
Channel General Rating		7		

		Mainter	nance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Departmen	nt Comments			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	}								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 55.6/55	Sufficiency Ratin	ng (Last/Now) 59.0/59.0	Est.	Repl. Yr	2041	Maint. Re	qd. (Y/N)	No
Special Monitor scour/eros Comments for Next Inspection	ion @ u/s bevel.		Departments Comments	nt s					
Maintenance Reviewed By			Date			Е	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Todd Warshav	<i>ı</i> ski	Previous Assistant's N	Name					
				N-4-	28-Sep-2010				
Next Inspection Date	11-May-2014		Previous Inspection D	Date 2	:0-3ep-2010				
•	11-May-2014 21		Previous Inspection D	Date 2	.o-Sep-2010				