					Bridg	e Culve	ert Insp	ection						
Bridge File Nur	mber	77294 -	1 Bridge Culve	rt			Form T	уре		CULM				
Year Built		1971					Lot No.			1				
Bridge or Towr	Name	MAYER	RTHORPE				Inspector Name			Wade Nanninga				
Located Over		TRIBUT 8.11.84	TARY TO PADE	ARY TO PADDLE RIVER, 30.27, WATERCRS-ST				tor Class		BR CLS A				
Located On		22:32 C	1 30.275				Assistant Name							
Water Body CI	./Year						Assistant Class			03-Oct-2011				
Navigabil. Cl./Year							Inspection Date			Theresa Lacus	nto.			
Legal Land Location SW SEC 28 TWP 56 RGE 8 W5N					M		Data Entry By Data Entry Date			25-Oct-2011	ola			
Longitude, Lati	3:32, 53:51:44	32, 53:51:44						Eric Carcoux						
Road Authority	,	Transportation	Transportation (AIT)					<u> </u>	25-Oct-2011					
Contract Main.	Area	CMA12					Reviev		Name	Brent Herrick				
Clear Roadway	//Skew	8.6 / -4	5 deg. (LHF)				·	Review Da		26-Oct-2011				
AADT/Year		1,420 /	2010 (A)				Follow			20 001 2011				
Road Classifica	ation	RAU-20	09-110				lonow	ор Бу						
Detour Length	(km)	13												
Bridge Culver	t Inform	nation												
Number of Cul	verts		2											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1200		MP		200		68X13	2.8	ROUND		
2	MAIN		-	1200		MP		200		68X13	2.8	ROUND		
Special Feature	es													
Special Feature	es Com	ment												
					114	1:4: /1	(-1)						
Litility Attachma	onto				Uti	lities (L	_ocated	at)						
Utility Attachmo		r/w Tolo	nhana aahla @	SE quos	Iront of	Turn	Gas							
Telephone West r/w. Telephone cable @ SE guad Rd 564 along property line.				iiaiii Oi	TWP	Munici	ool							
Power 2 wire East r/w.							m (Y/N)	No						
Others							TODIC	(1/14)						
Remarks														
				A	pproac	h Road		ankment						
					Last	Now	Explanation of Condition							
Horizontal Alig					7	7	No passing. Blinding crest curve to North.							
Vertical Alignm					6	6								
Roadway Widt	h (m)		8.300											
Embankment					6	6								
Sideslope (_	_:1)		3.0											
(Height of Co	ver(m)	: 2.5)												
Guardrail (Y/N))		No											
Approach Roa	ad / Emi	bankme	nt General Rat	ing	6	6								
						Upstre	am End							
Culvert Comp	onent				Last	Now	Explar	ation of	Condi	tion				
(Pipe # : 1, Sp	an Typ	e: Prima	ry Span)											
Direction					E				SE corr	ner of Twp 564 i	ntersection.			
End Treatment Others, None)	(Concr	ete, Stee	el, STEEL				South	pipe						
Headwall					Х	X								
Collar					Х	Х								

			Linotro	om End				
Culvert Component				eam End Explanation of Condition				
Culvert Component	(Sman)	Last	INOW	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	y Span)		V					
Wingwalls		X	X					
(Shape:)			T ./					
Cutoff Wall		X	X					
Bevel End		6	6	Superficial rust on floor.				
Heaving (mm)	0			Supermolar radic off floor.				
Invert Above/Below Stream Bed								
Above/Below (mm) 200								
Scour Protection		4	4					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 150)				_				
Scour/Erosion		4	4	Erosion 1m x 0.25m deep x 3m wide around bevel.				
Scoul/Elosion		4	4	Erosion IIII x 0.25m deep x 5m wide around bevei.				
Beavers (Y/N)	No							
Upstream End General Rating		6	4					
		Brid	dae Cu	Ilvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date 03-Oct-2011			,	Barrel follows East ditch before crossing the Hwy. Top of pipe cut out near mid length to receive ditch drainage.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		2	2					
Measured Rise (mm)	990	_		18m from downstream end.				
Measured At Ring No.								
Sag (mm) 210								
Percent Sag	18			-				
Sidewall	10	2	2	U/S portion has rust up to 1/2 pipe. (Corrugation beginning to buckle				
	1450			- photo. Sept. 08, 2004)				
Measured Span (mm)	1450			18m from downstream end.				
Measured At Ring No. Deflection (mm)	250			Tom nom downstream end.				
·								
Percent Deflection	21			(Flooring total for the season 19 1 0000 (100 (20) Fig. 1)				
Floor		4	4	(Floor undulating in east ditch. 2004/09/08) Extensive corrosion and pitting rust.				
Bulge (mm)	0			-				
Measured At Ring No.	 							
Abrasion (Y/N)	No		1					
Circumferential Seams	I	2	2	1st coupler separated with infiltration and scour. 0.3m deep erosion on sidewalls.				
Separation (mm)	250			on sidewalls.				
Longitudinal Seams		4	4	Riveted seams.				
Total No. of Cracked Rings 0								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N) Yes								
Longitudinal Stagger (Y/N)	Yes							

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)
Coating		4	4	Pitting rust on floor and lower sidewall. Leaking through bolt holes.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	Steep grade
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	2	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		W		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			Outlet is approx 150m North Twp Rd 564 intersection.
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	Some pitting rust on floor of bevel.
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	4	Scour hole 4m long x 1m wide x 0.5m deep, covered with vegetation.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
Outroot Occ				am End
Culvert Component	I-ma Cm-m)	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1_		1
Direction		Е		North pipe. Inlet @ SE corner Twp 564 intersection.
End Treatment (Concrete, Steel, Others, None)	STEEL		I	3 02 00mor rap 00 randroodiom
Headwall		Х	X	
Collar		X	X	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	Pitting rust on floor.
Heaving (mm)	25			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	350			
Scour Protection		4	4	Scour hole 1mx0.5x3m
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dae Cu	Ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S			, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	03-Oct-2011		·	Barrel follows East ditch before crossing the Hwy. Top of pipe cut out near mid length to receive ditch drainage.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		2	3	
Measured Rise (mm)	1060			Cl
Measured At Ring No.				
Sag (mm)	140			
Percent Sag	12			
Sidewall		2	3	
Measured Span (mm)	1370			
Measured At Ring No.				15m from downstream end.
Deflection (mm)	170			
Percent Deflection	14			
Floor		4	4	Extensive corrosion and pitting rust.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N) No				
Circumferential Seams		5	3	Void near cl ~ 100m
Separation (mm)	50			
Longitudinal Seams		4	4	Riveted seams.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			

		Brio	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	3pan (r	nm):	, Rise (mm): 1200, Type: MP)
Coating		4	4	Pitting rust on floor and lower sidewall. Leaking through bolt holes.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)			_	
Waterway Adequacy		6	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		2	3	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		4	5	Pitting rust on floor.
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	50			
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	4	Scour hole 4m long x 1m wide x 0.5m deep.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
		9	tructu	re Usage
		1	Now	Explanation of Condition
Channel (U/S and D/S)				,
Alignment		5	5	30 deg. bend to enter pipe.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading DEGRADING									
Beavers (Y/N) No									
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			5						

77294 -1 Bridge Culvert

Bridge Inspection & Maintenance System (Web 2005)

			Maintenand	e Recommend	dations					
Inspector Recommendations	Yea	ar Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
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		1 Complet	te assessment for repaine.	rs/replacement,						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N	low) 22.2	2/22.2	22.2 Sufficiency Rating (Last/N		38.3/35.3	Est. Repl. Yr	2013	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection The pipes at this s runs along the Eas	te are now co t ditch. Low	onnected to B rating advisor	F 13470 through a CSP y issued Nov 2009 and	culvert that Oct. 2011.	Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Kris Boster	Kris Bosters			Previous Assistant's Name Sara Wadlow					
Next Inspection Date	03-Jul-2013	03-Jul-2013			Previous Inspection Date 19-Nov-2009					
Inspection Cycle (Default) (months)	21									
Comment										