Bridge Culvert Inspection															
Bridge File Number 81842			-1 Bridge Culve				Form Type		CUL1						
Year Built 1979			•					١.		2					
Bridge or Town Name GRAND			D CENTRE		Inspector Name			Todd Warshawski							
			RIBUTARY TO MARIE CREEK, 7.7 ATERCRS-ST				Inspector Class			BR CLS B					
								ant Name							
Water Body Cl./Year			4 C1 4.683					Assistant Class							
Navigabil. Cl./Y							Inspec	tion Date		15-Dec-2011					
Legal Land Loca		S/W SE	SEC 24 TWP 63 RGE 3 W4M					Data Entry By Theresa Lacusta							
				FIVI		Data Entry Date			10-Jan-2012						
			0:00, 54:27:50 Transportation			Reviewer Name		Eric Carcoux							
		CMA08	·			Review Date			30-Dec-2011						
							Dept. Reviewer Name			Brent Herrick					
Clear Roadway	SKEW		5 deg. (LHF) 2010 (A)				Dept. Review Date			18-Jan-2012					
Road Classifica	tion		10-110				Follow-Up By								
	-		10-110				-								
Detour Length (km) 3															
Number of Culverts 1															
	Barrel		Span Rise (or		Dia.) Type		Length		Corr. Profile	Pl./Slab	Shape				
1 1po #	Darror		Opan	1100 (01	Dia.) Type			Lengin		Controllic	Thickness	Опаро			
1	MAIN		-	1829		MP		24.4		68X13	2.8	ROUND			
Special Feature	VERT STEEL	STRUTS													
Special Features Comment															
Utilities (Located at)															
Utility Attachments															
Telephone Along West ditch.							Gas								
Power	_	es OH 23m East of c/l. Municipal													
Others								m (Y/N)	No						
Remarks	BF tag	g installe	ed @ West end,	top of ro	ofDar	maged									
				Α	pproa	ch Road	d / Emb	ankment							
Last Now Explanation of Condition															
Horizontal Alignment					7	7	Access to residence North & South.								
Vertical Alignment				6	6	Crest curve to South. No passing. Limited sight distance.									
Roadway Width (m)			9.200												
Embankment					7	7									
Sideslope (	:1)		3.0				1								
(Height of Cov	ver(m) :	1.7)													
Guardrail (Y/N)			No												
Approach Road / Embankmer		ent General Rating		6	6										
, ,						Unatra	om Ene	m End							
Culvert Component Last Now Explanation of Condition															
Direction					W	INOW	LAPIAI	iation or	Condi	tion					
End Treatment (Concrete, Steel, NONE			VV		-										
Others, None) Headwall				X	Х										
Collar			X	X											
Wingwalls			X	X											
(Shape: )					^	1									
Cutoff Wall				Х	X										
							1								

Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End	T	X	X	End torn off.							
Heaving (mm)	0										
Invert Above/Below Stream Bed											
Above/Below (mm)	0										
Scour Protection		4	4	Small quantity of rock.							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		4	4	Fill erosion around end due to no bevel.							
Beavers (Y/N)											
Upstream End General Rating		4	4								
	Ivert Barrel										
Culvert Component			Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S			, Rise (mm): 1829, Type: MP)							
Barrel Last Accessible Date	15-Dec-2011										
Special Features											
Special Feature			7	75mm x 100mm HSS tube struts at 1500 OC. 75mm x 100mm							
(Type : VERT STEEL STRUTS)				whalers top and bottom.							
Special Feature											
(Type:)											
Roof		3	3	West end roof torn, probably when removing dam/installing cage.							
Measured Rise (mm)	1645	- 3									
Measured At Ring No.	1043			Rise/sag not measured due to ice.							
Sag (mm)	184										
Percent Sag	10			-							
	10	4									
Sidewall	1070	4	4								
Measured Span (mm)	1978			@ centerline							
Measured At Ring No.											
Deflection (mm)	149										
Percent Deflection	8										
Floor		6	N	Under ice/water							
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	No										
Circumferential Seams		6	6								
Separation (mm)	80										
Longitudinal Seams		X	Х								
Total No. of Cracked Rings											
Total No. of Rings with Two Cracked Seams											
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)											
Longitudinal Stagger (Y/N)											
Coating		4	N	Rust flaking, pitting on floorAug,2008							
Corrosion By Soil (Y/N)	No										
Corrosion By Water (Y/N)	Yes										
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 1829, Type: MP)					
Fish Passage Adequacy		Х	Х						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	5						
Icing (Y/N)	No			Debris caught on struts.					
Silting (Y/N)	No			- Deblis Caught on Strats.					
Drift (Y/N) Yes									
Barrel General Rating		3	3						
· ·									
				ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)			1						
Headwall		X	X						
Collar		X	Х						
Wingwalls		X	X						
(Shape: )									
Cutoff Wall		X	Х						
Bevel End			X						
Heaving (mm)									
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm) 200									
Scour Protection		5	5						
(Type : RIP RAP)									
(Avg. Rock Size(mm): 300)									
Scour/Erosion			5						
Beavers (Y/N) No									
Downstream End General Rating			5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) Yes									
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·								
Channel General Rating		7	7						

Maintenance Recommendations											
Inspector Recommendations		Year Inspector Comments				Department Comm	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	)FF										
REPAIR SEAMS											
OTHER ACTION		2012	Remove	debris inside U/S barrel.							
OTHER ACTION		2012	Repair in	nlet section.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		33.3/33.	3	Sufficiency Rating (Last/N	low)	52.4/46.0	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Tota	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Da		Dave Lam				Previous Assistant's Name					
		15-Mar-2015			Previous	Inspection Date	14-Aug-2008				
Inspection Cycle (Default) (months) 3											
Comment											