					Bridg	e Culve	ert Insp	ection						
Bridge File Num	ber	74990	-1 Bridge Culve	rt			Form			CUL1				
Year Built 1983 Bridge or Town Name HOLYOKE							Lot No	Lot No. 2						
Bridge or Town	Name	HOLYC	OKE				Inspec	tor Name		Todd Warshawski				
Located Over		TRIBU' WATER	TARY TO MURIEL CREEK, 7.5.8, RCRS-ST					tor Class		BR CLS B				
Located On		657:04	C1 2.331				Assistant Name							
Water Body Cl./		001101	312.001					Assistant Class						
Navigabil. Cl./Ye								Inspection Date 14-Dec-2011						
Legal Land Loca		NW SE	C 10 TWD 50 PCF / W//M					Data Entry By Theresa Lacusta						
Longitude, Latitu		-110:36	:18 54:07:08				Data Entry Date 14-Jan-2012							
Road Authority			Transportation (AIT)					Reviewer Name Eric Carcoux						
Contract Main. A	Area	CMA08	,				Review Date 04-Jan-2012							
Clear Roadway/								Dept. Reviewer Name Brent Herrick						
AADT/Year 940			40 / 2040 / 4)					Review Da	ate	18-Jan-2012				
			0 / 2010 (A) CU-210-110					-Up By						
Detour Length (km) 50														
Bridge Culvert										<u> </u>				
Number of Culve			1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		-	2430		SP		48.8		152X51	3.0	ROUND		
Special Features	 S									,				
Special Feature		ment												
					Litt	ilities (L	ocated	at)						
Utility Attachme	nts				Oti	llico (L	-ocatec	atj						
Telephone	West	r/w					Gas							
Power	770011	.,					Munici	nal						
Others						Problem (Y/N) No								
Remarks	BF tac	ı installe	ed @ top of Eas	t end root	•		1 10010	(1/14)	110					
rtomanto	ומפ	y motane	od () top 0, 2d0			ch Road	l / Emb	ankment						
					Last	Now	Explai	nation of	Condi	tion				
Horizontal Align	ment			7 7			Curve to south.							
Vertical Alignment			7		7	Slight sag, grade to North.								
Roadway Width (m)		9.700												
Embankment					7	7								
Sideslope (:1)		3.0												
(Height of Cov		5.4)												
Guardrail (Y/N) No		No												
Approach Road	d / Emb	ankme	nt General Rat	ing	7	7								
						Upstre	am Enc	ī						
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction					E	111011								
End Treatment (Others, None)	(Concre	ete, Stee	el, STEEL											
Headwall					Х	X								
Collar			Х	Х										
Wingwalls				X	X									
Wingwalls (Shape:)														
Cutoff Wall					Х	X								

				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	000	7	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	 			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			Beaver dam debris in pipe.
Upstream End General Rating		7	6	
		Brio	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Si			, Rise (mm): 2430, Type: SP)
Barrel Last Accessible Date	14-Dec-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Not measured due to ice.
Measured Rise (mm)				Shape and condition appear good.
Measured At Ring No.				(20/Mar/2002)
	75			(20/Wall/2002)
Sag (mm) Percent Sag	3			
	3	-		
Sidewall	0070	7	7	Ice to high to measure.
Measured Span (mm)	2370			(20/Mar/2002)
Measured At Ring No.				
Deflection (mm)	54			
Percent Deflection	2		_	
Floor	I	N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	
Separation (mm)	0			
Longitudinal Seams		N	6	Some plates not nested properly, appears to be a problem with the
Total No. of Cracked Rings	0			radius of the plates. Sections of lower seam under water/ice.
Total No. of Rings with Two Cracked Seams				Upper 1/2 inspected.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
		6	6	Minor superficial rust water lovel down. Aug. 2009
Coating Correction By Soil (V/N)	No	0	U	Minor superficial rust water level downAug, 2008
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			0.8 m - Aug, 2008

74990 -1 Bridge Culvert

		Brio	dge Cu	lvert Barrel				
Culvert Component		Last Now		Explanation of Condition				
(Pipe #: 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 2430, Type: SP)				
Fish Passage Adequacy			7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		8	6					
Icing (Y/N)	No			Debris caught in pipe.				
Silting (Y/N)	No			Debris caught in pipe.				
Drift (Y/N)	Yes							
Barrel General Rating		N	6					
				ream End				
Culvert Component		Last	Now	Explanation of Condition				
End Treatment (Concrete, Steel,	STEEL	W						
Others, None)		V						
Headwall		X	X					
Collar		X	X					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		Х	Х					
Bevel End		7	7					
Heaving (mm)	150							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	300							
Scour Protection		4	N	Insufficient rock as fill around bevel is scoured out 0.5m deep at				
(Type : RIP RAP)				existing water levelAug,2008				
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		4	N					
Beavers (Y/N)	No							
Downstream End General Rating		4	4	GR carried fwd from Aug 10,2008.				
			tructu	re Usage				
		Last Now		Explanation of Condition				
Channel (U/S and D/S)		Last	INOW	Explanation of condition				
Alignment		7	7					
Bank Stability		4	N	Large scour hole @ both ends which may indicate pipe is under sizedAug, 2008				
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 :								
(Fish Compensation Measure 2 :								
Channel General Rating	,	4	4	GR carried fwd from Aug 10, 2008.				

		Maintenance	Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	Department Comments				
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	30m3 around West bevel, if not a	already done.					
REMOVE DRIFT ACCUMULATION	2012	Remove beaverdam debris from	pipe.					
INSTALL CONCRETE/STEEL LININ	G							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/l (%)	Now) 55.6/60	Sufficiency Rating (La (%)	ast/Now) 62.1/59.5	Est. Repl. Yr 2	035 Maint.	Reqd. (Y/N)	Yes	
Special Watch for worseni Comments for Next Inspection	ng of scout holes	at both ends.	Department Comments					
Maintenance Reviewed By			Date		Estimated T	otal 0		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
On 3-Year Program (Y/N) Proposed Action								
	Dave Lam		Previous Assistant's Name					
Proposed Action	Dave Lam		Previous Assistant's Name Previous Inspection Date	10-Aug-2008				
Proposed Action Previous Inspector's Name				10-Aug-2008				