



DRAINAGE CALCULATIONS				
93 COLUMBIA STREET COMMON DRIVEWAY				
EXISTING FOOTPRINT				
PROPOSED AREA OF DRIVE				
TOTAL INCREASE				
				0 s.f.
				3750 s.f.
				3750 s.f.
PRE-DEVELOPMENT				
RAIN FALL (25 YEAR EVENT)				
				6.1 inches
RUNOFF COEFFICIENT (Merrimac Urban Group A)				
				40%
	3750 X	6.4 /12	40%	762.5
RUNOFF VOLUME				
				762.5 c.f.
POST DEVELOPMENT				
RAIN FALL (25 YEAR EVENT)				
				6.1 inches
RUNOFF COEFFICIENT				
				98%
	3750 X	6.4 /12	98%	1868.1
RUNOFF VOLUME				
				1868.1 c.f.
INCREASE IN RUNOFF				
				1105.6 c.f.
USING AN 8-INCH DEEP QPA				
	1105.6 c.f.	/	0.67	= 1650 s.f.
PROVIDE FOUR 8-INCH DEEP QPA TOTALING				
1650 s.f. TO MITIGATE THE 25 YEAR STORM EVENT.				