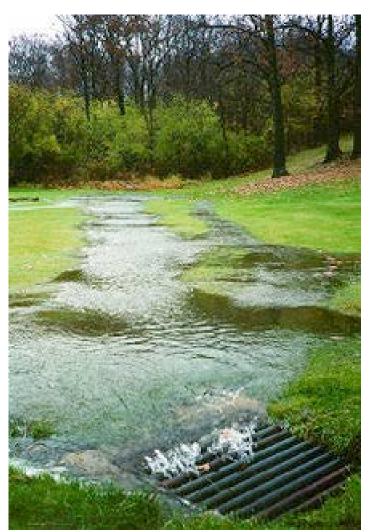
Stormwater Runoff

3/26/2012

Today

Calculate:

Run-off Volume for AUP for a Storm event in New York City



http://en.wikipedia.org/wiki/Surface_runoff

Today

Calculate:

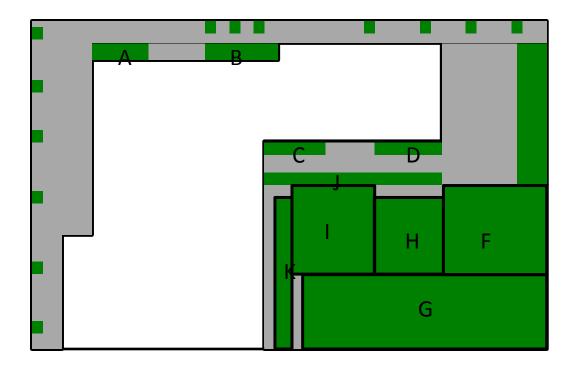
Infiltration Volume for AUP for a Storm event in New York City



http://www.atmos.albany.edu/daes/atmclasses/atm301/soilm.html

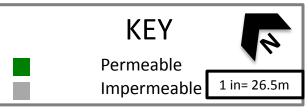
Guided Worksheet

- We need to calculate the percent permeable and impermeable (1-7) area you mapped around AUP to insert into a Run-off Volume Calculation (11-12)
- Includes Tree Pits and other Green Space regions

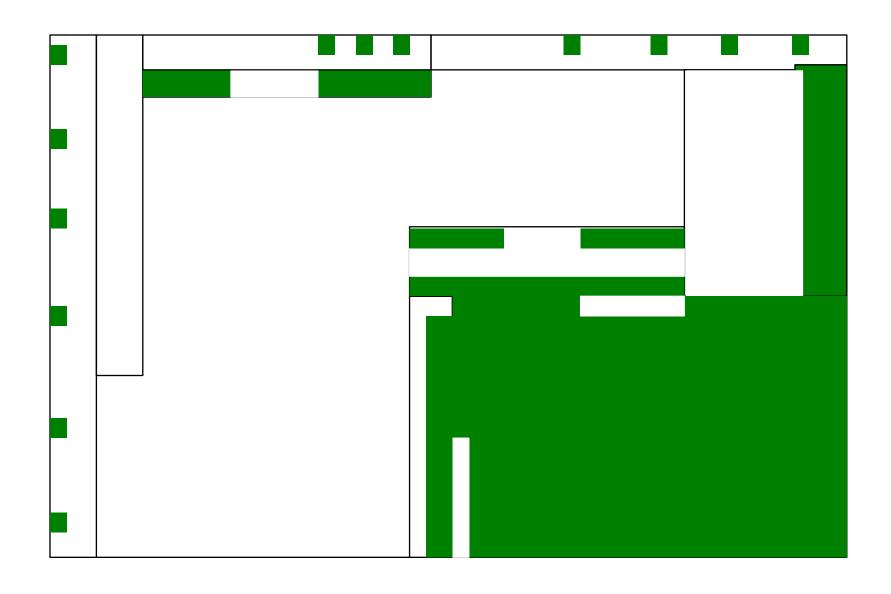


Tree Pit and Green Space Measurements





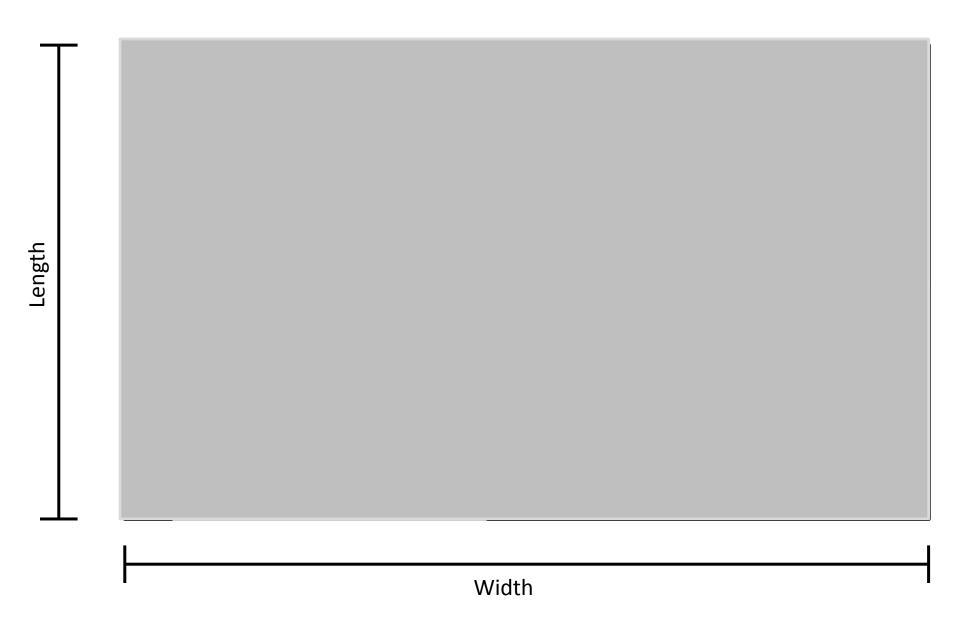
Total Permeable Area



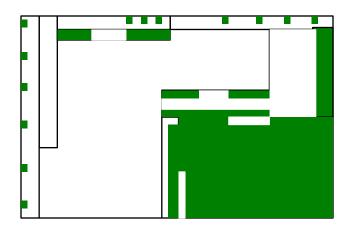
Total Campus Area



(1) Total Campus Area



Percent Permeable Area



Total Permeable Area

Total Campus Area



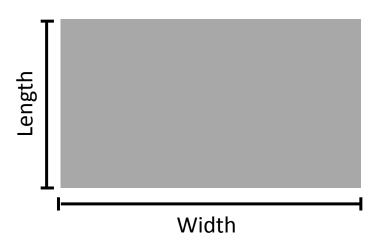
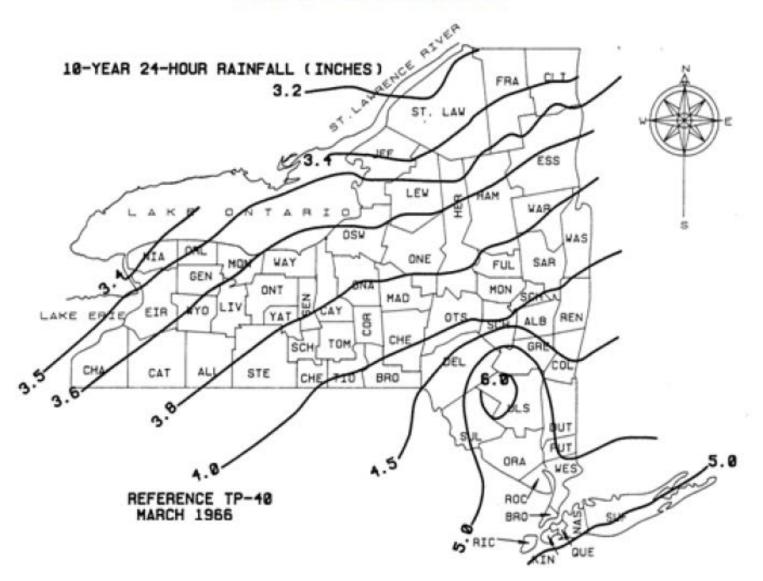


Figure 4.3 10-Year Design Storm



Remember Your Unit Conversions

Map Scale: 1inch =26.5 meters

1 inch = 0.025 meters

 $1 \text{ meter}^3 = 264 \text{ gallons}$

(9) Storm Event Selection

New York State Stormwater Management Design Manual

New York State Dept. of Environmental Conservation

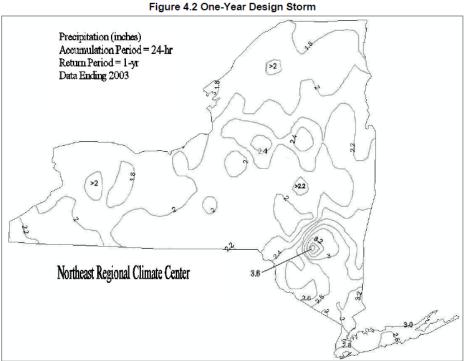


Figure 4.1 90% Rainfall in New York State (NYSDEC, 2000)

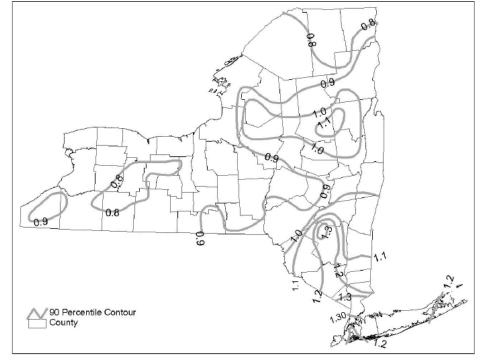
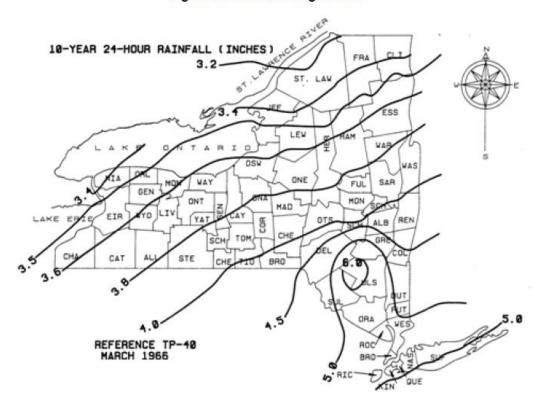
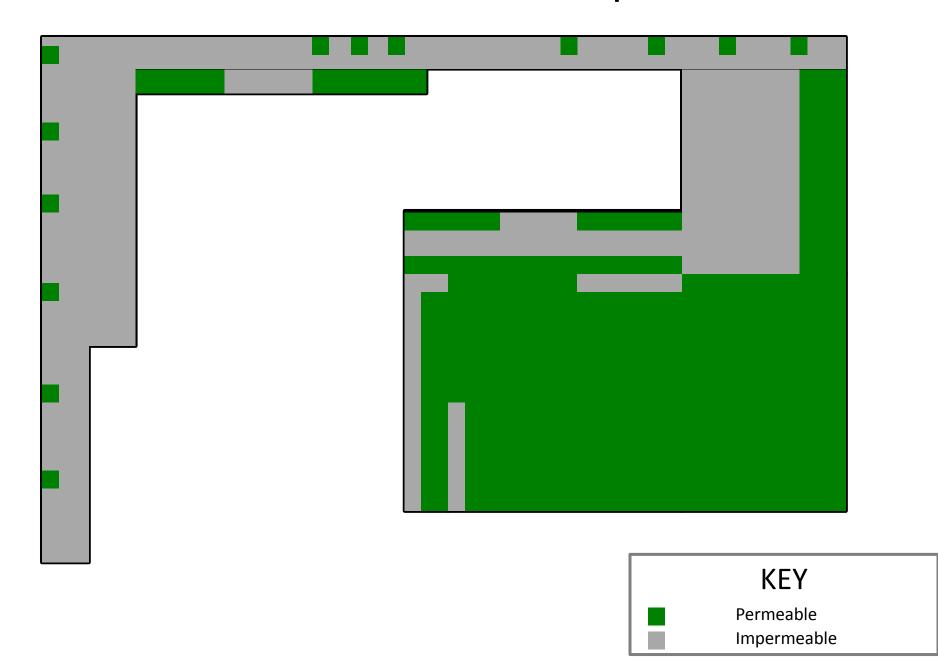


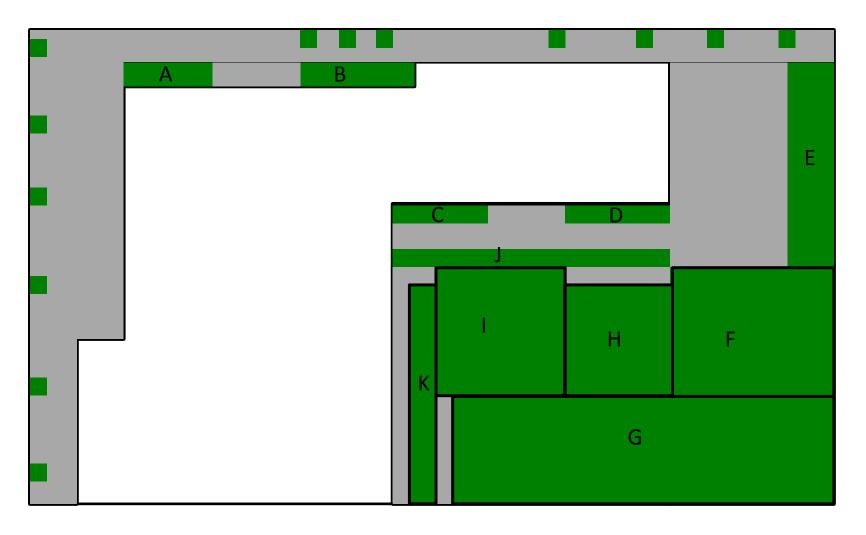
Figure 4.3 10-Year Design Storm

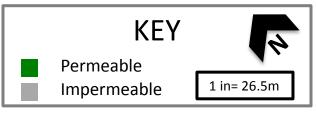


AUP Surfaces Map



AUP Surfaces Map



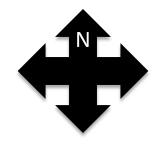


Map Elements

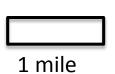
North Arrow







Scale Bar



1 inch = 1 mile