

Rain Garden Sizing Chart

Impervious Area (Square Feet)	Peak Flow (CFS)	Volume of Storage (Cubic Feet)	Volume of Storage (Gallons)
2000	0.16	171.82	1285.20
2200	0.18	189.00	1413.72
2400	0.19	206.18	1542.24
2500	0.20	214.77	1606.50
2600	0.21	223.36	1670.76
2800	0.22	240.55	1799.28
3000	0.24	257.73	1927.80
3200	0.25	274.91	2056.32
3400	0.27	292.09	2184.84
3600	0.29	309.27	2313.36
3800	0.30	326.45	2441.88
4000	0.32	343.64	2570.40
4200	0.33	360.82	2698.92
4400	0.35	378.00	2827.44
4600	0.37	395.18	2955.96
4800	0.38	412.36	3084.48
5000	0.40	429.55	3213.00
5200	0.41	446.73	3341.52
5400	0.43	463.91	3470.04
5600	0.45	481.09	3598.56
5800	0.46	498.27	3727.08
6000	0.48	515.45	3855.60
6200	0.49	532.64	3984.12
6400	0.51	549.82	4112.64
6600	0.53	567.00	4241.16
6800	0.54	584.18	4369.68

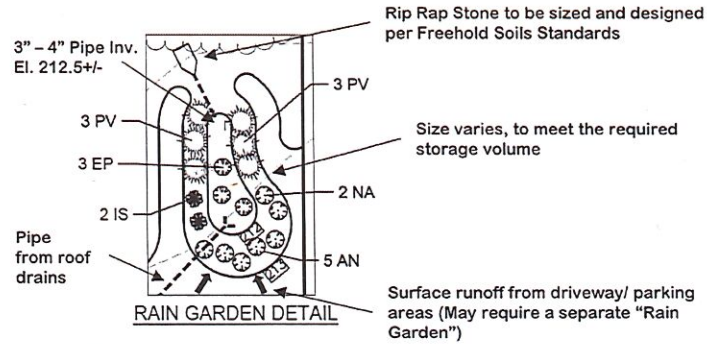
Formula Peak Flow $Q=cia$

Time of Concentration = 6 minutes
Intensity = 3.5 in/hr for 2 year storm

Runoff Volume $V=QT$
T = 18 minutes

Prepared on: April 26, 2021

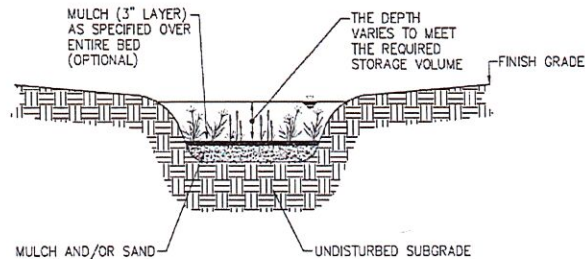
*Does not apply to new dwellings approved as part of a Major Subdivision



- NOTES:
1. CLIENT/ APPLICANT TO HAVE A TEST PIT PERFORMED AND SOIL PERMEABILITY DETERMINED, TO ENSURE THAT THE UNDERLYING SOIL CONTENT IS SUITABLE FOR A RAIN GARDEN APPLICATION.
 2. BOTTOM OF RAIN GARDEN TO BE SURFACED WITH A COMBINATION OF ORGANIC MULCH, AND 1" - 1 1/2" WASHED DELAWARE GRAVEL. LOCAL BOULDERS MAY ALSO BE ADDED FOR ACCENT AND INTEREST.
 3. THE PREFERRED AMENDED SOIL CONTENT MIXTURE SHALL BE AS FOLLOWS: 50% SAND, 25 % NATIVE TOPSOIL, AND 25 % COMPOST.
 4. AMENDED SOIL MIXTURE TO BE PROVIDED TO AN 18" DEPTH, WITH 6" OF TOP SOIL AND MULCH/GRAVEL ABOVE.
 5. RAIN GARDEN CAPACITY = ±130 C.F.

LANDSCAPE SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE/COND.
AN	5	ASTER NOVICA	NEW ENGLAND ASTER	2 GAL
PV	6	PANICUM VIRGATUM	SWITCH GRASS	2 GAL
EP	3	ECHINACEA "PURPLE"	PURPLE CONEFLOWER	2 GAL
IS	2	IRIS SIBIRICA	SIBERIAN IRIS	2 GAL



RAIN GARDEN DETAIL
NOT TO SCALE

LSA

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**TYPICAL 2021 Green Infrastructure
Stormwater Management Design
For Single Family Dwellings*
Millstone Township, NJ**