

University of Maryland Extension: Stormwater Management and Demonstration Garden

www.tinyurl.com/StormwaterProject

Level of Effort

Easy



Tree Planting: Individual and larger scale tree planting (called Reforestation) efforts reduce the velocity and amount of runoff reaching Carroll Creek from the property. The trees act as a filter by taking up water as well as nutrients.



Rain Barrels: Rain barrels collect water from roof downspouts and store it for later use in the demonstration garden on site. Benefits of a Rain barrel: Can reduce water usage from municipal or well sources for gardening needs.



Rain Tanks: The Rain Tanks collect water that is piped underground, and utilized for watering in the demonstration garden on site. Benefits of a Rain Tank: Can reduce water usage from municipal or well sources for gardening needs.



Dry Stream Bed: A dry bed stream weaves through the garden and will be utilized to aid in the diversion of stormwater/rain tank overflow and preventing erosion.



Micro-Bioretentation: A Micro-Bioretentation is a stormwater management practice that also serves as a landscape feature. It is composed of three layers: sand, soil, and an organic layer. Water filters through the system and is transferred through a perforated storm drain to the reforestation area. After a large rain event, this facility will drain within 2 days. A Rain Garden is similar except it does not have an underdrain.



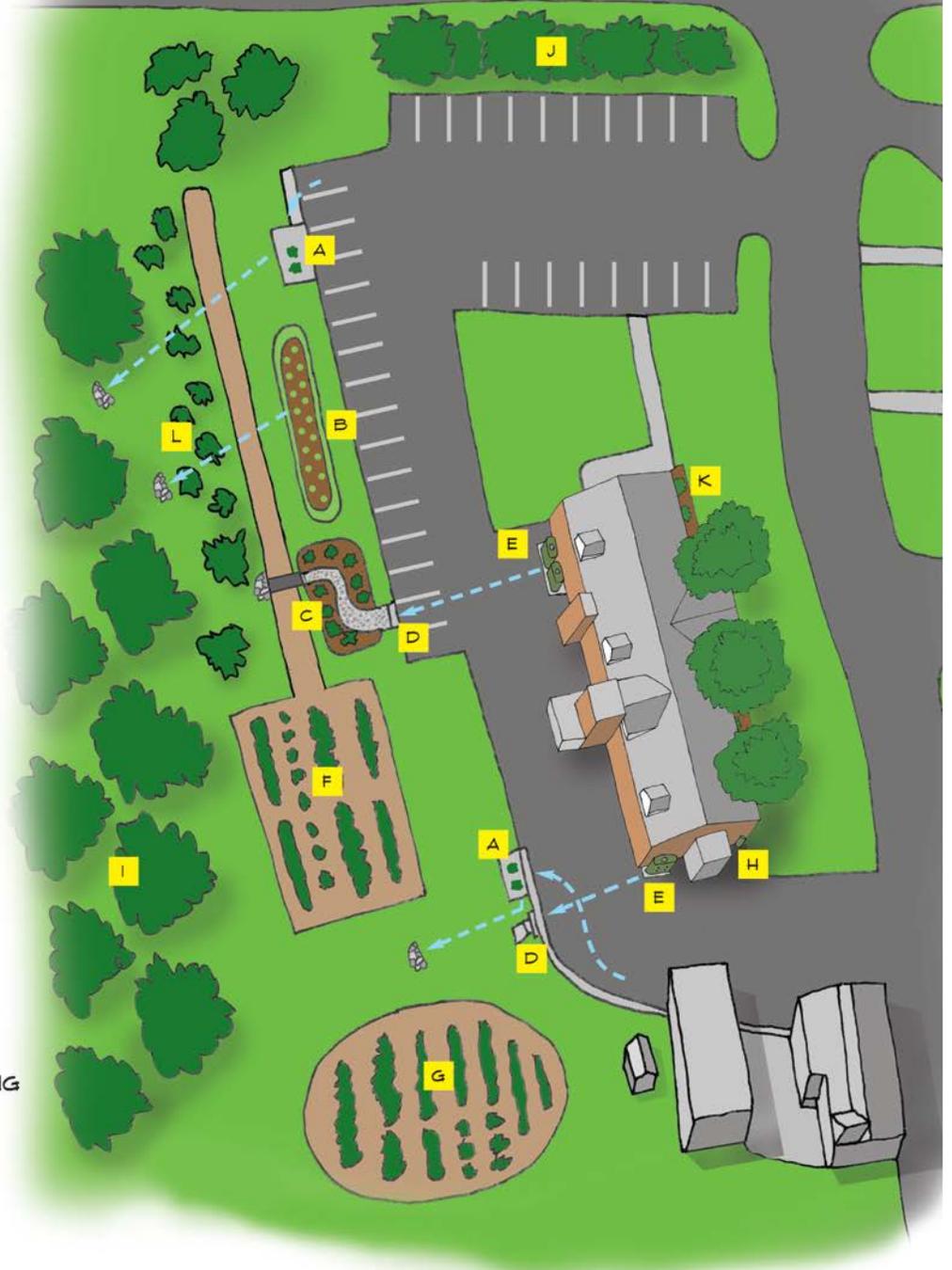
Filterra: In a Filterra, stormwater enters into the system from a curb opening and then is filtered through mulch and organic layers before being transferred out through a pipe system. These systems have high pollutant removal rates with a reduced footprint, are aesthetic appealing and are easy to maintain.

More Difficult

University of Maryland Extension: Site Layout

OVERVIEW

- A FILTERRA
- B MICROBIORETENTION AREA
- C DRY STREAM BED
- D WATER SOURCE
- E RAIN TANK
- F GROW IT, EAT IT GARDEN
- G CHILDREN'S GARDEN
- H RAIN BARREL
- I REFORESTATION
- J NATIVE HEDGEROW
- K BUILDING FOUNDATION LANDSCAPING
- L WOODLAND EDGE



Sketch by Fitch & Company, Inc.

Contact Information

For Stormwater Management Practices:

Office of Sustainability and Environmental Resources
30 North Market Street
Frederick MD 21701
301-600-1416
<http://sustainablefrederickcounty.org>



For Master Gardener or Home and Garden Questions:

Master Gardener Coordinator
330 Montevue Lane
Frederick, MD 21702
301-600-1596
<http://extension.umd.edu/frederick-county>

