Designing for Soil Enhancement and Improved Irrigation for Trees

Mosaic Park

Arlington County
Mosaic Park

**TREE HEALTH**

- Soil Space Enhancement with Silva Cells
- Improved Irrigation through the Epic Passive Irrigation System
Silva Cells – Mosaic Park Detail
General Rule of Thumb:
1000 ft³ soil for canopy tree
600 ft³ for understory tree
Trees can also share volumes at about 600 ft³ per
Silva Cells – Mosaic Park
Silva Cells – Penrose Square
Epic Passive Irrigation System – Mosaic Park
EPIC System™
Living Profile

Landscape Vegetation
Sand Layer with Netlon Advanced Turf System
2” Fine Gravel Layer
EPIC System™ with RESI Liner
Prepared Sub-grade

Epic Passive Irrigation System
Water Treatment Capabilities

- Filtered Discharge
- “Living System” Treatment
- 90% Reduction of TSS
- 85% Phosphorous Removal
- 60% Nitrate Removal
- Enhanced Nutrient Uptake
- 3-5 Gallons/Sq. Ft.

Sand Storage Capacity

Epic Passive Irrigation System
Epic Passive Irrigation System – Mosaic Park

1950 sq ft.

2750 sq ft.
Prepare sub-grade

Install EPDM liner

Epic Passive Irrigation System - Installation
Install chambers

Fill with gravel and sand

Epic Passive Irrigation System - Installation
Final settling, compaction, and smoothing

Install planting

Epic Passive Irrigation System - Installation
Epic Passive Irrigation System – Installation at James Hunter Park