STORMWATER ACTION CENTER FACT SHEET

Name of Project:
Glenstone

Location:
Potomac, Maryland

County:
Montgomery

Watershed:
Potomac Basin

Website:
https://www.landscapeperformance.org/case-study-briefs/glenstone

GLENSTONE – POTOMAC, MARYLAND

OVERVIEW:
Glenstone is a contemporary art museum in Potomac, Maryland, that brings together art, architecture, and landscape. Over 15 years of design and implementation, more than a dozen suburban home sites were acquired, assembled, and transformed into Glenstone, which knits together 230 acres of formerly disparate, resource-intensive suburban lots into an ecologically and socially productive landscape experience through a multi-year master plan; Phase 1 of the project regraded, reforested, and created a sculpture walk through the original 150-acre estate. Phase 2 expanded the site to 230 acres, integrating a new museum building, parking groves, walking paths, sustainable meadows, and outdoor museum spaces. The design and implementation of the landscape in both phases emphasizes a systems approach to landscape maintenance, water management, reforestation, and meadow regeneration.

BENEFITS:
- Restored or improved soils on 120 acres;
- Manages the 1-inch, 24-hour rain event with a total treatment capacity of 49,000 cu ft in bioretention facilities, pervious pavement, and a cistern;
- Intercepts 50,300 cu ft of stormwater runoff annually in 9,026 newly-planted trees;
- Restored riparian habitat along 2.7 miles of streams;
- Sequesters an estimated 22.03 tons of atmospheric carbon annually in 9,026 newly-planted trees, with 234 tons of carbon stored in their biomass;
- Diverts approximately 10.5 tons of organic food waste from landfills annually by composting and reusing it on-site.

FUNDING SOURCES:
- Funded by American Businessman Mitchell Rales

💧 - Water Storage
🌿 - Bio-Filtration/Green Infrastructure
🔧 - New/Improved Drainage Infrastructure

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