New Hope Academy  Landover Hills, MD
Nathan Allen - University of Maryland Landscape Architecture - LARCH 640 - Dr. Kweon

Design Goals

Retain
Intercept, collect and allow for stormwater to be treated on site, releasing slowly back into the ground and watershed.

Restore
Using new technologies in stormwater management: effectively reduce run off from impervious surfaces, restore failing slopes and reestablish a healthy stream bed

Educate
Create various environmentally educational experiences for all ages of students, the local community and the public

Functional Diagrams

Site Analysis
Storm water run off
- Varnum St.
- New Hope parking lot
- New Hope roof

Proposed stormwater management

Outdoor educational opportunities

Section Elevation B-B’

Campgrounds & Outdoor Classroom
Bird watching Gazebo
New bridge to campgrounds
Trail to New Hope
1. Permiable paving parking bays
2. Bioretention swale
3. Parking lot rain gardens
4. Gabion reinforced wall & overlook
5. Restored streambed
6. Camping area & outdoor classroom
7. Stormwater retention pond
Redesigned retention pond produces an artistic, yet functional stormwater treatment system

- Cistern collects and stores water for plants/experiments
- Permeable paving courtyard
- Overflow planters initially receive downsout water
- Water moves through a series of planted terrace steps emptying into a retention pond.