

Nancy Seligson
Long Island Water Symposium
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Long Island University



Green Infrastructure

Mamaroneck Town Center Parking Lot



New Catch Basin with Filter Fabric



Curb Cut for Drainage to Rain Gardens



Rain Garden(s)



Porous Pavement



Permeable Pavers



Interpretive Sign



MAMARONECK TOWN CENTER

PARKING LOT & GROUNDS IMPROVEMENT PROJECT





STORMWATER MANAGEMENT & GREEN INFRASTRUCTURE PRACTICES

- 1 **BIO-RETENTION**
This plan uses trees and shrubs to capture runoff. The resulting bioretention area is planted with native plants and shrubs, with mulch and a layer of aggregate to filter and store water.
- 2 **PERMEABLE PAVEMENTS (POROUS ASPHALT & PRE-CAST POROUS CONCRETE PAVEMENT)**
Permeable pavement allows water to infiltrate the ground, reducing runoff and recharging groundwater. This is achieved through the use of porous aggregate and aggregate concrete.
- 3 **CATCH BASIN FILTERS**
Catch basin filters are used to capture sediment, debris, and other pollutants before they reach the water table.
- 4 **PERFORATED DRAINAGE & DRAIN BARRIERS**
Perforated drainage pipes and drain barriers are used to collect and transport stormwater to a stormwater management system.
- 5 **LANDSCAPING**
Landscaping is used to enhance the aesthetic appeal of the project and to provide shade and windbreaks for the building.

DO YOU KNOW?

The Project will also create green infrastructure using a bioretention area. The bioretention area will capture runoff from the parking lot, and filter and store water. The resulting bioretention area is planted with native plants and shrubs, with mulch and a layer of aggregate to filter and store water.

PROTECTING LONG ISLAND SOUND

The Mamaroneck Town Center Parking Lot & Grounds Improvement Project will be built to the State of New York's 2015 Stormwater Management Design Manual, which requires the use of permeable pavement, catch basin filters, and other stormwater management practices to reduce runoff and protect Long Island Sound.

STORMWATER MANAGEMENT & GREEN INFRASTRUCTURE PRACTICES

1 **BIO-RETENTION**
This plan uses trees and shrubs to capture runoff. The resulting bioretention area is planted with native plants and shrubs, with mulch and a layer of aggregate to filter and store water.

2 **PERMEABLE PAVEMENTS (POROUS ASPHALT & PRE-CAST POROUS CONCRETE PAVEMENT)**
Permeable pavement allows water to infiltrate the ground, reducing runoff and recharging groundwater. This is achieved through the use of porous aggregate and aggregate concrete.

3 **CATCH BASIN FILTERS**
Catch basin filters are used to capture sediment, debris, and other pollutants before they reach the water table.

4 **PERFORATED DRAINAGE & DRAIN BARRIERS**
Perforated drainage pipes and drain barriers are used to collect and transport stormwater to a stormwater management system.

5 **LANDSCAPING**
Landscaping is used to enhance the aesthetic appeal of the project and to provide shade and windbreaks for the building.

6 **BIORETENTION**
This plan uses trees and shrubs to capture runoff. The resulting bioretention area is planted with native plants and shrubs, with mulch and a layer of aggregate to filter and store water.

7 **PERMEABLE PAVEMENTS**
Permeable pavement allows water to infiltrate the ground, reducing runoff and recharging groundwater. This is achieved through the use of porous aggregate and aggregate concrete.

8 **POROUS ASPHALT PAVEMENT**
Porous asphalt pavement allows water to infiltrate the ground, reducing runoff and recharging groundwater. This is achieved through the use of porous aggregate and aggregate concrete.

9 **PRE-CAST POROUS CONCRETE PAVEMENT**
Pre-cast porous concrete pavement allows water to infiltrate the ground, reducing runoff and recharging groundwater. This is achieved through the use of porous aggregate and aggregate concrete.

10 **CATCH BASIN FILTERS**
Catch basin filters are used to capture sediment, debris, and other pollutants before they reach the water table.

11 **RAIN GARDENS**
Rain gardens are used to capture runoff from the parking lot and filter and store water. The resulting rain garden is planted with native plants and shrubs, with mulch and a layer of aggregate to filter and store water.

12 **LANDSCAPING**
Landscaping is used to enhance the aesthetic appeal of the project and to provide shade and windbreaks for the building.





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