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How they work

This graphic illustrates the secret to how Water Quality Islands, like those installed on Plainfield Avenue NE, function to improve water quality in the Grand River

cement

aggregate

sand

Rain from the street is directed to the island and dispersed here

Plants and soils filter and absorb rain water

The overflow of water in the island travels to this drain

Excess water in the basin flows to the storm sewers and into the Grand River

street

Final soil filtration and absorption takes place at this catch basin

**FILTERED** 

**WATER** 

Excess water permeating the soil makes its way here via this underdrain



# **Benefits of the Plainfield Islands**

#### **Economic**

- Enriches the neighborhood
- Triggers additional investments
- Increases property values

### Social

- Enhances pedestrian safety through traffic calming and increases driver awareness
- Heightens community pride
- Provides inspiration for social responsibility

## **Environment**

- Filters out pollutants and keeps them from the Grand River
- Reduces the volume of water going to the river and decreases flooding
- Slows the velocity of water flowing to the river and minimizes erosion









