

Equitable Collaborative Partnerships in Addressing MS4, Flooding, and Green Infrastructure

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Coalition for the
Delaware River
Watershed

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11th Annual Delaware River Watershed Forum

Small Wonder, Big Impact across the Delaware River Watershed.



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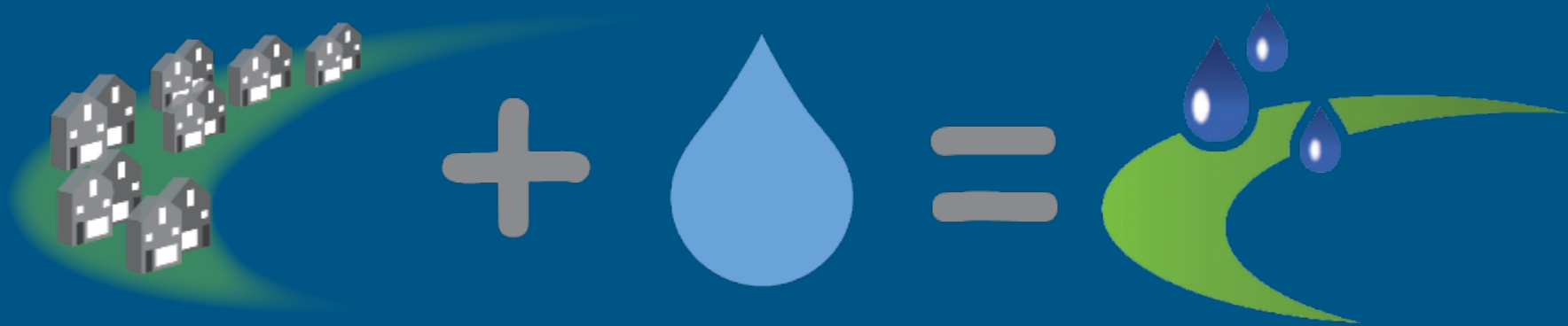


Rutgers Cooperative Extension

Rutgers Cooperative Extension (RCE) helps the diverse population of New Jersey adapt to a rapidly changing society and improves their lives through an educational process that uses science-based knowledge.



The RCE Water Resources Program



Our mission is to identify and address water resources issues by engaging and empowering communities to employ practical science-based solutions to help create a more equitable and sustainable New Jersey.



NJ's Stormwater Problems

- A Strong Need to Retrofit Existing Development With Stormwater Management
- Retrofitting Existing Development is not Required by State Regulations
- Robust Partnerships and Local Champions are needed for Retrofitting to be Successful



Partners

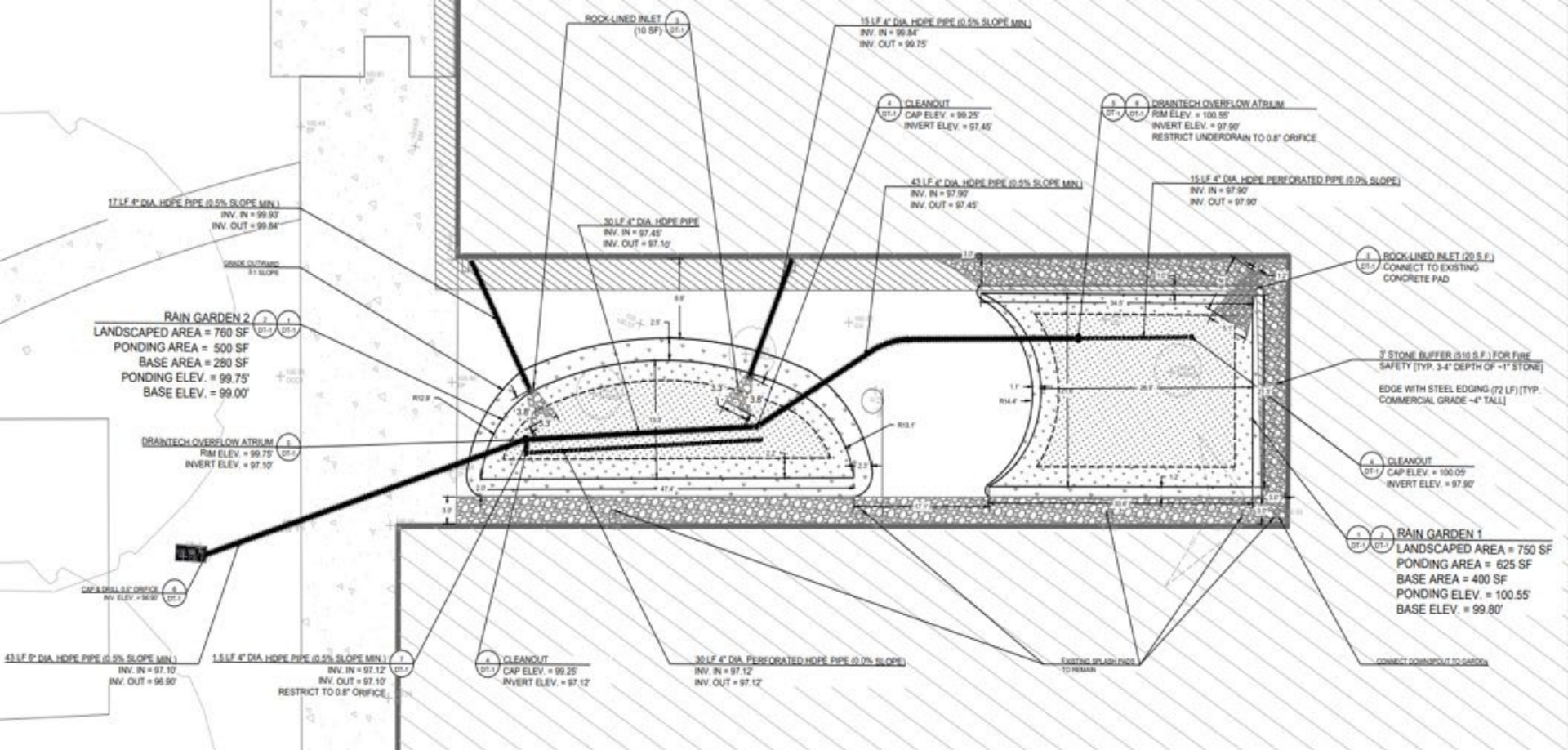
- NGOs – ANJEC, SJLWT, ALS, PDE, NJ Audubon, Citizens United, Pinelands Preservation Alliance, Highland Coalition, North Jersey RC&D
- Municipalities, Schools, House of Worship, Colleges, Counties
- Local Community Leaders, Green Infrastructure Champions



The Process

1. Identify a project
2. Identify possible partners and create a team
3. Identify and secure funding
4. Develop design
5. Implement design
6. Maintenance, maintenance, maintenance





Responsible Parties

- Project coordinator – NGO or Local Champion
- Design – Rutgers
- Implementation
 - Municipality (Public Works or Parks Department)
 - School (Board of Ed Grounds Facilities)
 - Local Contractor
 - Partners and volunteers
- Maintenance – ???



A Good Contractor

A Contractor that can do more than just dig





Or a Good Public Works Department

Or Great Students





... and a hard-working
Professor



Garrison Park

- Porous Asphalt Parking Lot
- Two Rain Gardens
- Good Funding Story
- Lots of Partners



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Rain Garden to Take Excess Runoff from Porous Asphalt Parking Lot



Rain Garden with Signage



Involve the Politicians



Convince them more is needed



Anthony Rossi Elementary School







Roadside
Rain Garden
near Pohatcong
Municipal
Building



C
D
W

Upper Deerfield Municipal Complex











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Fixing Problems

Inspections and Maintenance are necessary







Lessons Learned about Maintenance

- Good to have a formal agreement with property owner
- Volunteer groups are reliable until they are not
- Best maintenance is done by organizations that allocate resources to staff to maintain built systems
- Training does not always result in good maintenance
- If a landscaped system is messy, it is more likely to be removed even if it is functioning properly



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