The Rain Garden

Creating a Rain Garden in a Beautiful Setting

The Rain Garden is a celebration of the beauty of water in the Pacific Northwest as rainwater is captured and infiltrated downstream. The garden is located in a beautiful setting, surrounded by greenery and nature.

The Rain Garden is a place to demonstrate the potential for water management and infiltration in an urban environment. It showcases how natural sustainable practices can be integrated into our cities and gardens. Functionally, the garden collects and infiltrates stormwater before it is released into the surrounding ecosystem. The native plants and shrubs provide habitat for local wildlife and help reduce the impact of urban stormwater on local ecosystems.
Intermodal Transit and Social Connections
A Mix of 24/7 Uses
A Green District
Storm Water Flow
Green Street Flow-Through Planters
Vegetated Roofs and Walls
Open Space and Habitat Corridors
Purple Pipe Non-Potable Reuse System
District Thermal Energy
Smart Grid
Headquarter Hotel - Receptacle for and Leader of EcoDistrict
Buildings Receive and Contribute to District
Next Steps

Establish District Boundary and Scope of Involvement

Stormwater Collection and Reuse:
- Calculate runoff volumes from public and private property within the district at current versus projected buildout
- Establish projected non-potable demand for sanitary and irrigation – current and projected
- Work with BES and Water to establish appropriate fee and incentive structure

Wastewater Treatment for Reuse and Thermal Capture:
- Current wastewater volumes from district – distinct from stormwater
- Estimate system size needed to address available volumes
- Work with BES to calculate thermal profile of sewer at point of contact with district

Anaerobic Digestion:
- Establish Food Waste volumes for district at various phases of redevelopment
- Calculate hauling costs and Greenhouse Gas impacts of food waste composting
- Life Cycle Cost Analysis of system inputs and outputs

District Thermal – thermal synergies:
- Determine thermal profile of various occupancies – correlate with planned/potential mix of uses in future development

Smart Grid:
- Determine electric load profile of various occupancies – correlate with planned/potential mix of uses in future development
- Identify parking quantities in district – hours of use correlated with peak electrical demands
- Massing volumes anticipated for eventual build-out – perform solar potential analysis