GREEN ROOFS AS A STORM WATER MANAGEMENT TOOL
Managing Stormwater Run-off from Impervious Surfaces: Green Infrastructure Solutions for New Jersey Conference
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Presented By:

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Presentation Outline

I. Intro to green roofs—what are they?
   a. Green roof historical context
   b. Images of what green roofs can look like
   c. Green Roof Types: extensive, semi-intensive, intensive
   d. Systems Types: carpet, modular, loose installed

II. Storm water benefits
   a. Storm water peak flow attenuation
      i. Volume reduction
      ii. Absorption
      iii. Evapotranspiration
   b. Water quality improvements
      i. Pollutants
      ii. Nutrient loading
      iii. pH
      iv. Water Temperature

III. Green Roof Challenges
   a. Design Performance: Predictability
   b. Storm water modeling: Design storm
   c. Variability of performance due to seasonality
   d. Soil profiles and their ability to improve water quality
   e. System weight and building structural loading
   f. Vegetation selection
   g. Need for Irrigation
   h. Need for further research and monitoring

IV. Green Roof Design Considerations
   a. System selection criteria
   b. System manufacturer selection
   c. Costs

V. Green Roof Construction Considerations
   a. Contractor selection criteria
   b. Plant selection and plant quality
   c. Coordination and sequencing of installation
   d. Installation techniques
   e. Images of green roof installation

VI. Green Roof Maintenance
   a. Initial or establishment installation
   b. Long-term maintenance
   c. Maintenance contractor skills and training
   d. Costs

VII. Questions and Answers
Some Green Roof Resources:


