BMP Projects on a Tight Budget

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Overview

• General Purpose of Permanent BMPs
• 3 BMP Project Examples
  – Overall Goal of the Project
  – Existing Site Constraints
  – BMP Design
• Questions
General Purpose of Permanent BMPs

- For the past **TWO** decades the rate of land development across the country has been more than two times greater than the rate of population growth.

- The best way to mitigate stormwater impacts from new developments is to use practices to treat, store, and infiltrate runoff onsite before it can affect water bodies downstream.
BMP Project Examples

- Villa Park Train Station Detention Basin
  - Locally Funded
  - Overall Goal: Provide Detention for already Developed Area
BMP Project Examples

• Villa Park Train Station Detention Basin
  – Existing Site Constraints
    • NO SPACE
    • Adjacent Railroad/Setbacks
    • Adjacent Site Topography
BMP Project Examples

- Villa Park Train Station Detention Basin
  - Existing Site Constraints
    - Existing Utilities
    - Excavated Material
BMP Project Examples

- Villa Park Train Station Detention Basin
  - BMP Design: Naturalized Detention Basin
• Downers Grove Bio-Swale & Rain Garden
  – Locally Funded
  – Overall Goal: Improve Stormwater Management, Water Quality and Provide Educational Tool
BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - Existing Site Constraints
    - Existing Utilities
    - Site & Adjacent Property Topography
Downers Grove Bio-Swale & Rain Garden

- Existing Site Constraints
  - Existing Utilities
  - Site & Adjacent Property Topography
BMP Project Examples

- Downers Grove Bio-Swale & Rain Garden
  - BMP Design
    - 2 “Bio-Swale” Pods
    - Rain Garden
BMP Project Examples

• Glenview Detention Basins
  – Federally Funded
  – Overall Goal: Improve Stormwater Management, Water Quality and Provide Educational Tool
**BMP Project Examples**

- **Glenview Detention Basins**
  - Existing Site Constraints
    - Original Design Intent
    - Turf Grass
    - Drainage Issues
    - Design/Build
  - Public Perception
    - Burning/Maintenance
    - Drainage
    - Native Plants
• Glenview Detention Basins
  – BMP Design: Naturalized Detention Basins
BMP Project Examples

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THANK YOU!!