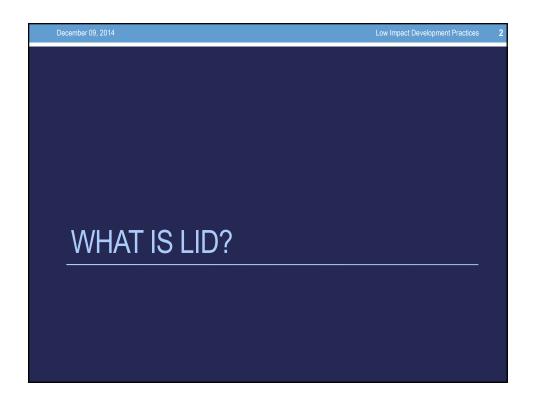
LOW IMPACT DEVELOPMENT

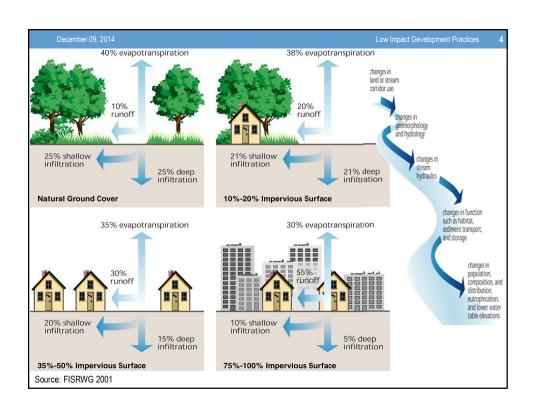
Incorporating LID Practices and Other Stormwater BMPs in Site Plans and Designs



Low Impact Development (LID)

An approach to land development (or re-development) that works with nature to *manage stormwater as close to its source as possible*. LID employs principles such as **preserving** and **recreating natural landscape features**, **minimizing effective imperviousness** to create functional and appealing site drainage that treat stormwater as a resource rather than a waste product.





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Low Impact Development Practices

Green Infrastructure

Systems and practices that use or **mimic natural processes** to infiltrate, evapotranspirate (the return of water to the atmosphere either through evaporation or by plants), or reuse stormwater or runoff on the site where it is generated. Green infrastructure can be used at a wide range of landscape scales in place of, or in addition to, more traditional stormwater control elements to support the principles of LID.



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Low Impact Development Practices

Smart Growth

A range of development and conservation strategies that help protect our natural environment and make our communities more attractive, economically stronger and more socially diverse



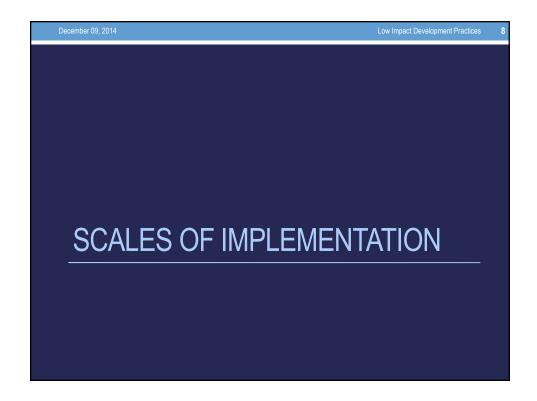
Jordan Cove Watershed Project NEMO Program, University of Connecticut December 09, 2014

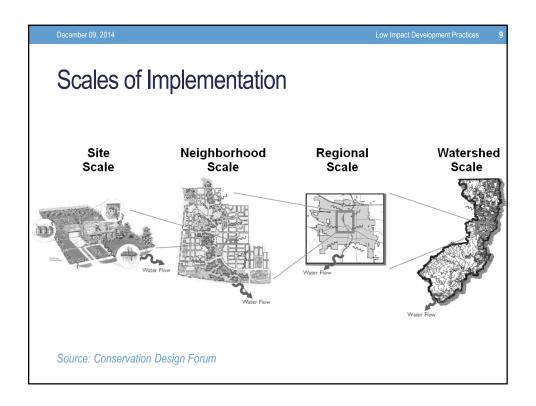
ow Impact Development Practices

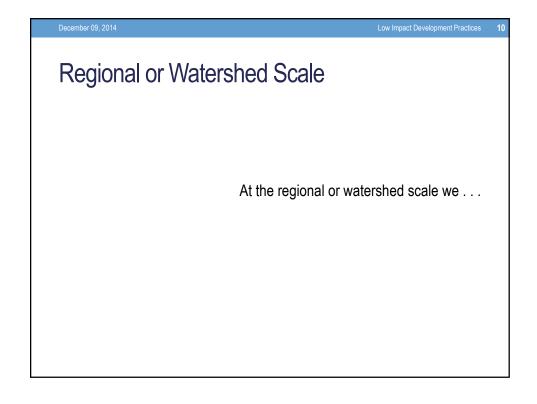
Complete Streets

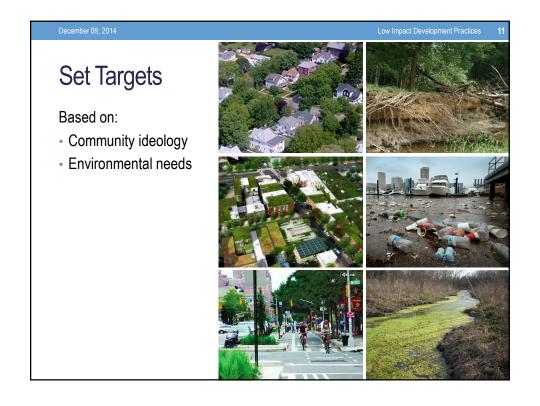
Integrates people and place in the planning, design, construction, operation and maintenance of our transportation networks.

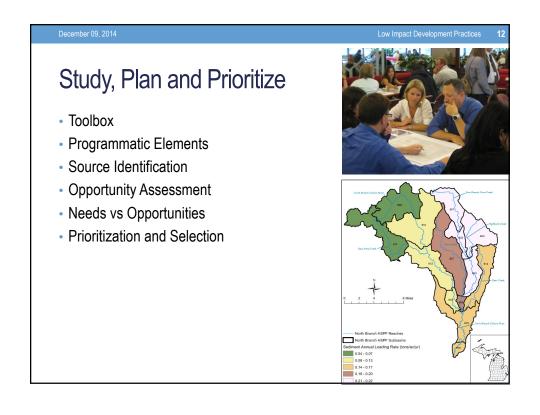


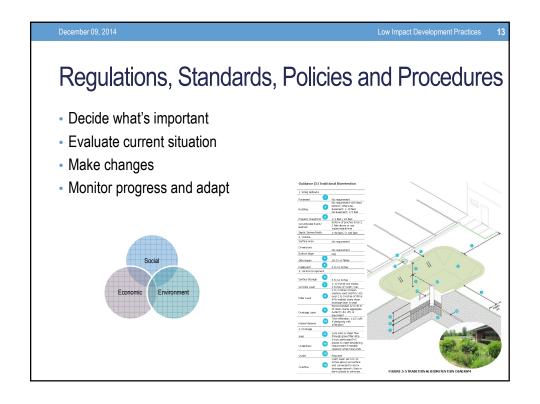


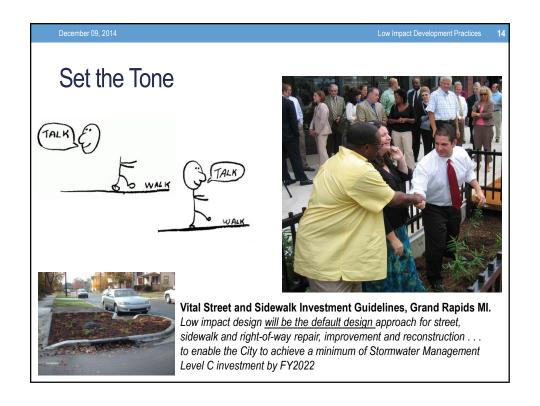


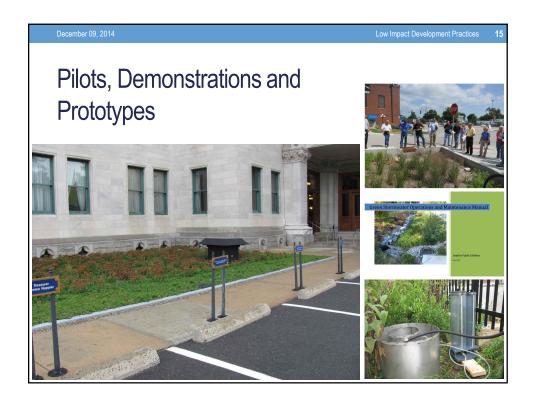




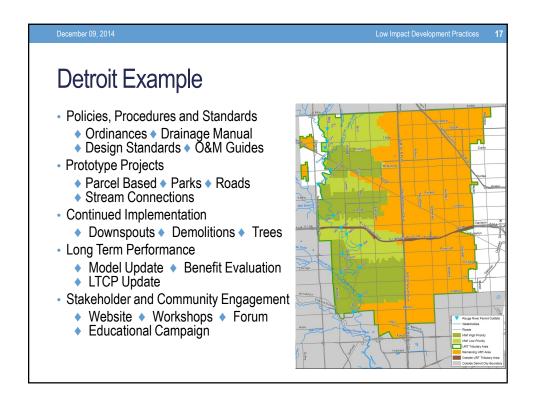


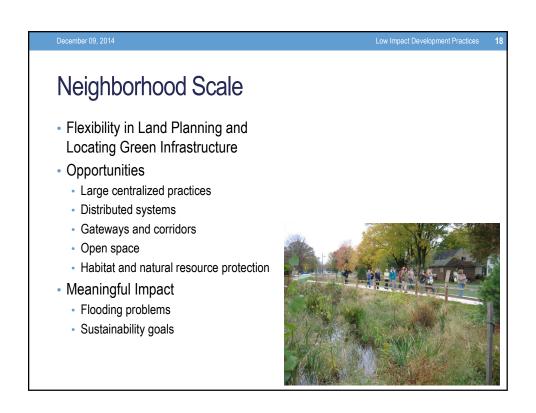


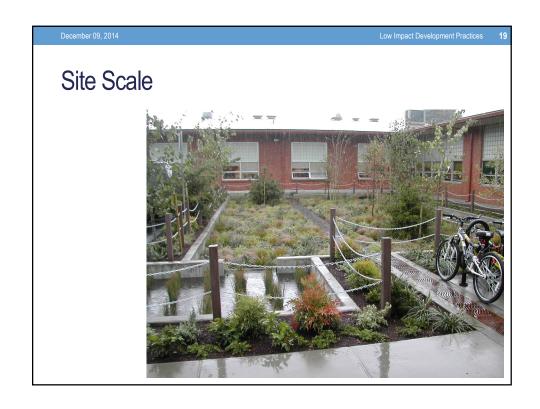


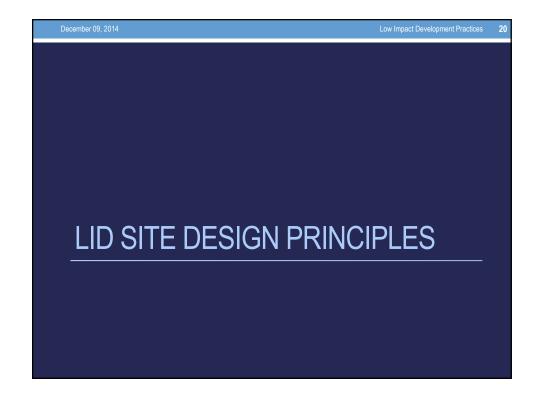


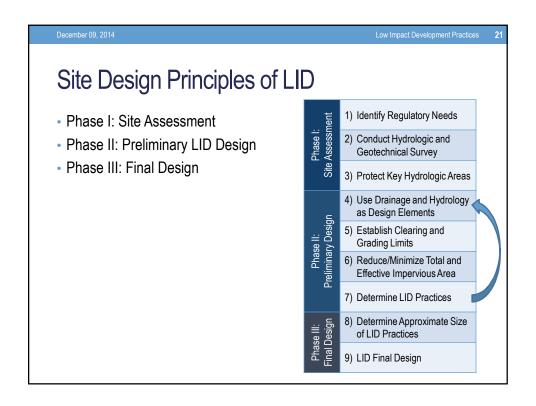


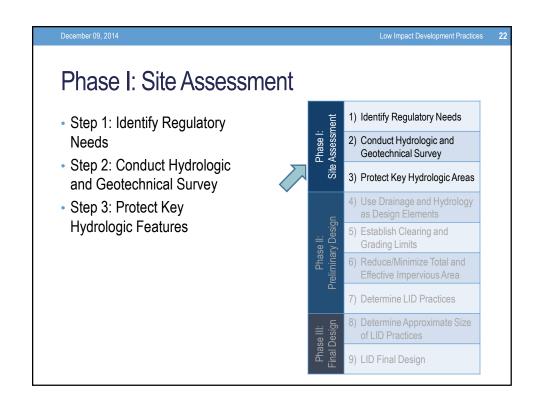






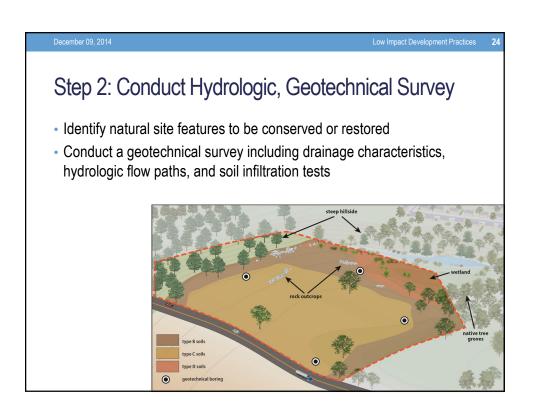


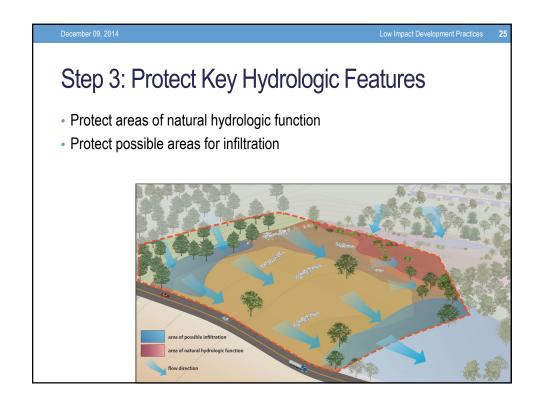


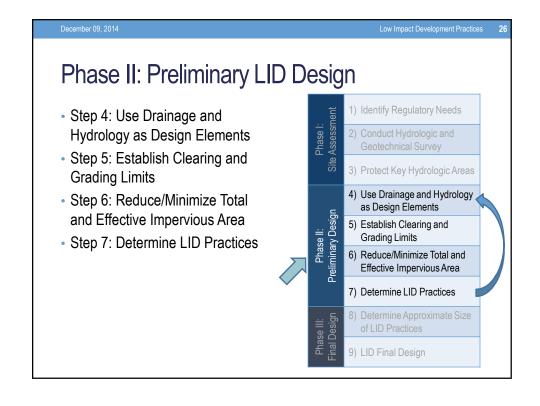


Step 1: Identify Regulatory Needs

Identify applicable zoning, land use, subdivision, and other regulations
Identify setbacks, easements, and utilities
Identify targeted pollutants and pollutants of concern

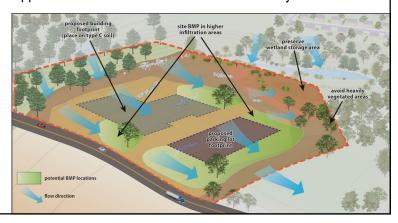




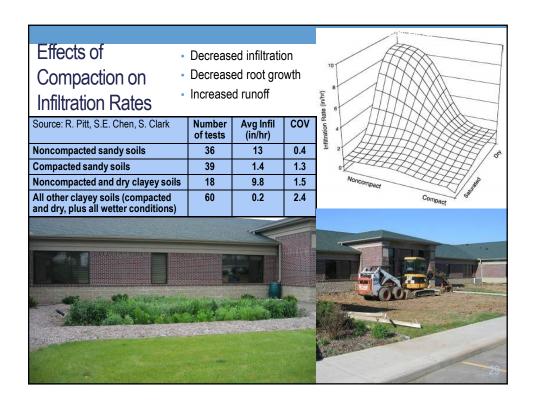


Step 4: Use Drainage and Hydrology as Design Elements

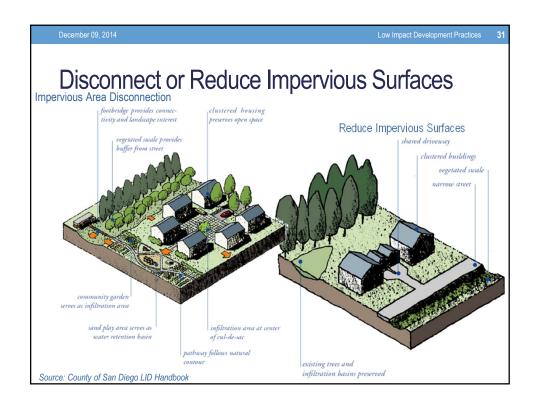
- Identify the spatial layout of the site using hydrologic flow paths and natural drainage as a feature
- Determine approximate locations for infiltration and conveyance BMPs



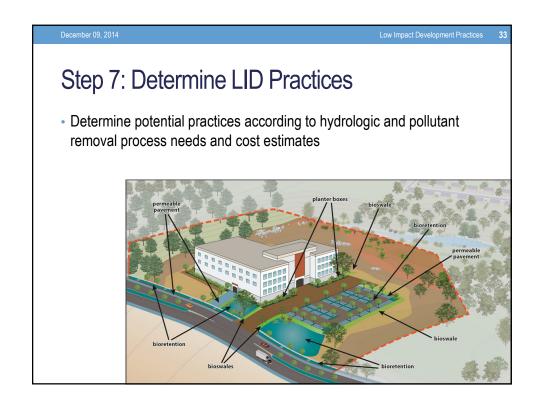
Step 5: Establish Clearing and Grading Limits Define the limits of clearing and grading Minimize disturbance to areas outside the limits of clearing and grading proposed building footprint proposed building footprint proposed building footprint proposed footpr

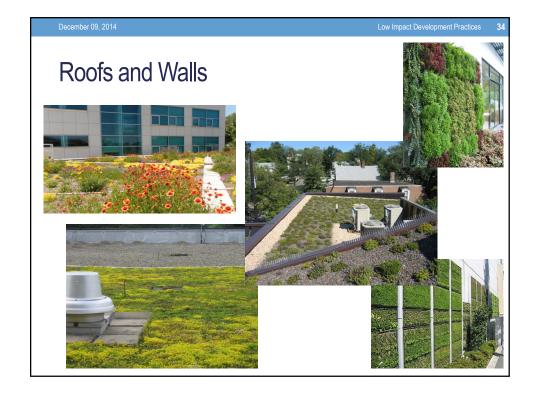


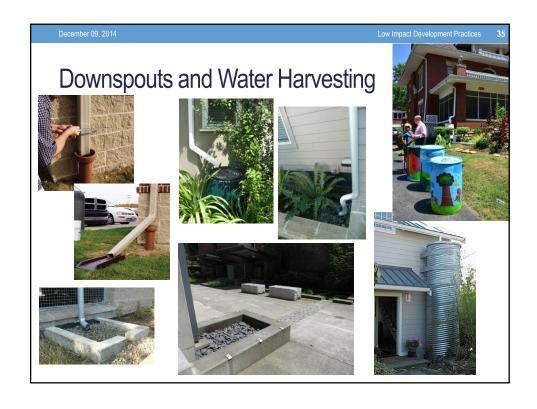


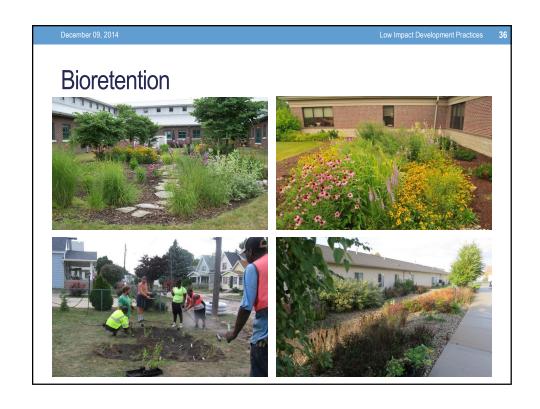


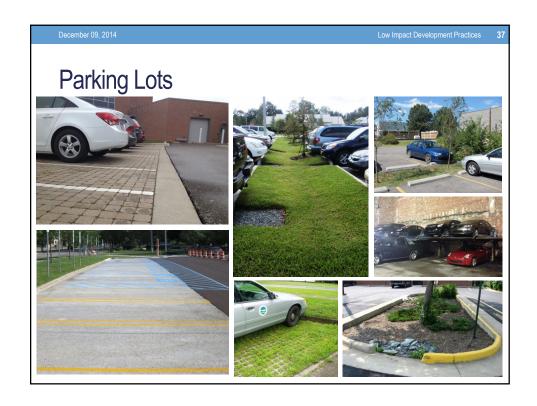


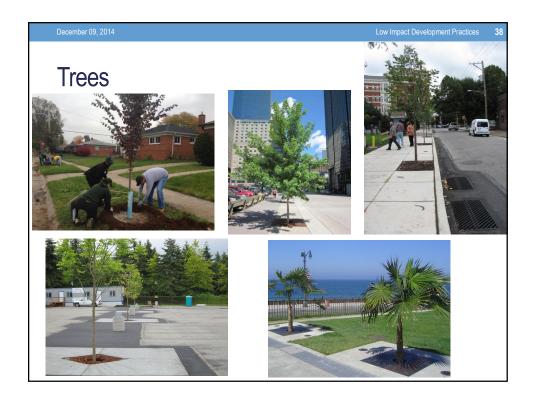


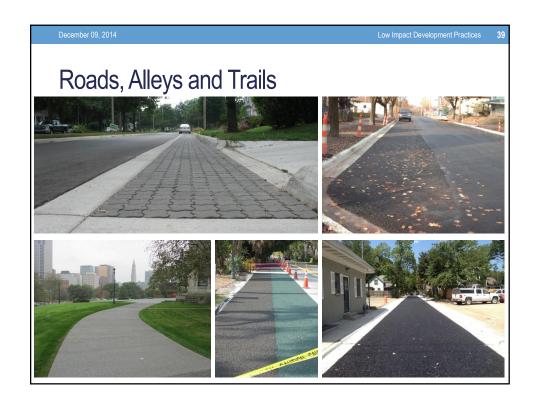


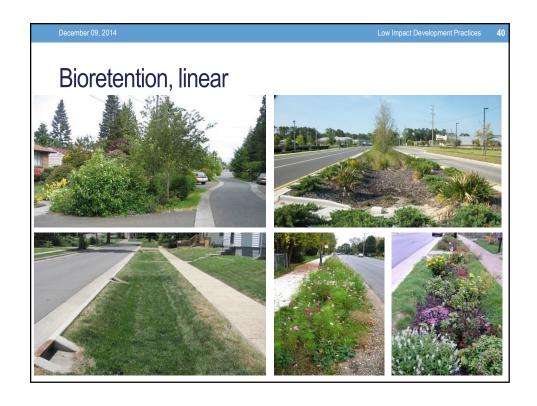


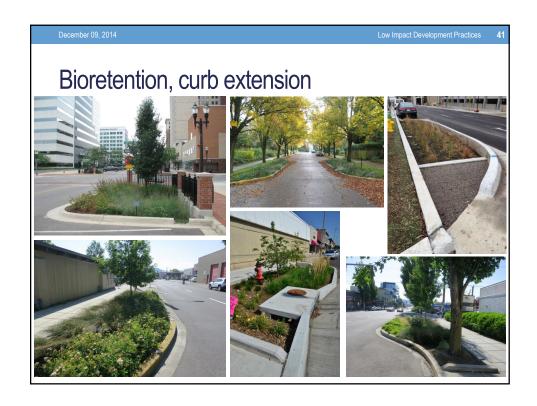


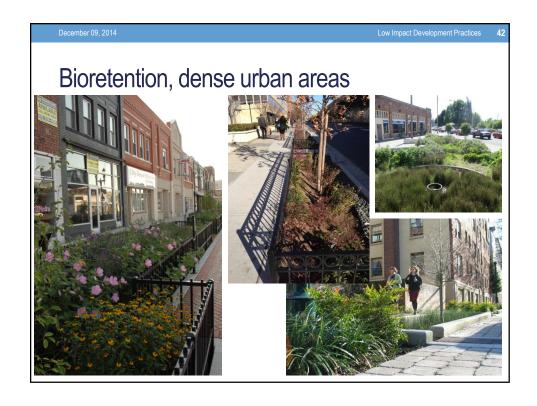








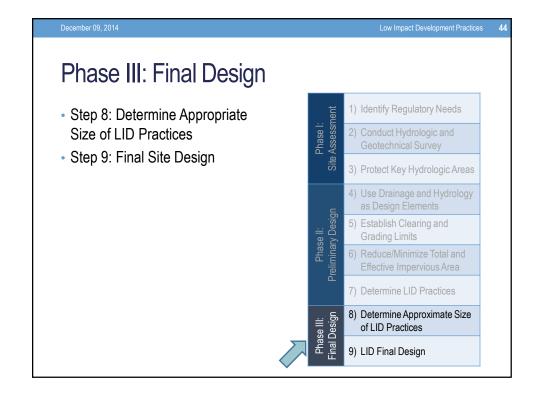




Results of Phase II – Preliminary Site Plan

- √ Hydrologic flow paths and natural drainage features (Step 4)
- ✓ Locations where infiltration and conveyance features could be located (Step 4)
- √Limits of clearing and grading (Step 5)
- ✓ Results of an impervious area reduction analysis (e.g., parking area reduction, permeable pavement options) (Step 6)
- ✓ Candidate BMPs and their approximate locations (Step 7)

This is an iterative process



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Step 8: Determine Appropriate Size of LID Practices

- Place practices at the appropriate locations
- · Size practices to meet hydrologic design criteria



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Step 9: Final Site Design

- · Verify that geotechnical and drainage requirements have been met
- Complete designs such as finish details and notes
- · Complete the site plans







