Integrating Sustainable Design Elements into Form-Based Codes

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A LEGAL GUIDE TO URBAN AND SUSTAINABLE DEVELOPMENT for Planners, Developers, and Architects

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with W. Andrew Gowder Jr.

Foreword by Andrés Duany
Lord Residence, Maine (Solar Design Associates)
Homeowner’s Enhancement Guide (Henrico County, Virginia)

- Provide ideas and tools to modernize and enhance homes and property, especially in mature neighborhoods
- Chapters address popular style homes (ranch, Cape Cod, etc) and include diagrams, checklists, resources and reference material
Passive Survivability - Definition

“Maintaining livable conditions in a building in the event of an extended power outage or loss of heating fuel or water.”

—Environmental Building News, May 2006
Natural Ventilation

Zion Visitor’s Center, Zion National Park showing passive cooling towers in which hot air drawn in at the top and falls down through evaporative pads (NREL photo)

Alpen Windows, University of Colorado
Rainwater cisterns at the Chesapeake Bay Foundation headquarters
Source: North Potomac Yard Small Area Plan
We help localities make themselves more sustainable
Location Matters: Transportation is #2 Expense after Housing

Transit Rich Neighborhood
- 59% Other Expenses
- 32% Housing
- 9% Transportation

Average American Family
- 59% Other Expenses
- 9% Housing
- 11% Insurance
- 13% Food
- 19% Transportation

Auto Dependent Neighborhood
- 43% Other Expenses
- 32% Housing
- 25% Transportation

Source: Center for TOD Housing + Transportation Affordability Index, 2004 Bureau of Labor Statistics
Green Infrastructure & Buildings

Green Infrastructure as Neighborhood Amenities

- Roof Top Terrace
- Children’s Garden
- Street Plantings
- Green Roofs
- Vegetable Garden
- Townhouse Rear Yards
- Tree Orchard

Image courtesy of Dattner Architects/Grimshaw/Lee Weintraub Landscape