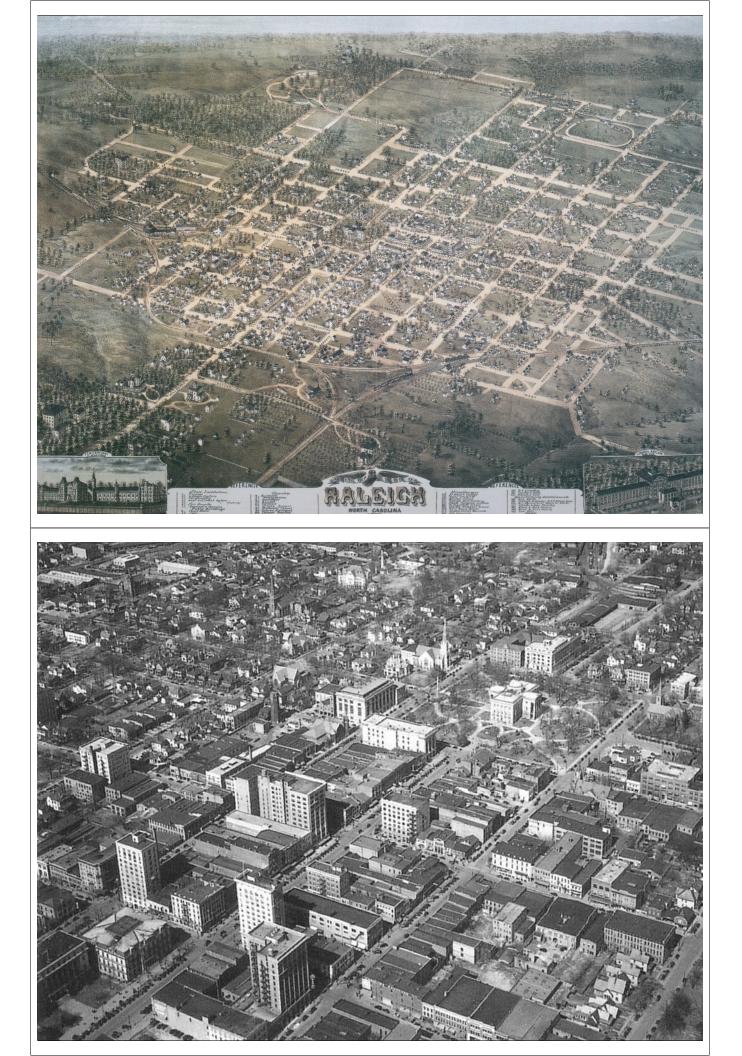
Creating Urban Form: Conventional and Form-Based Codes





Bill Spikowski November 6, 2007





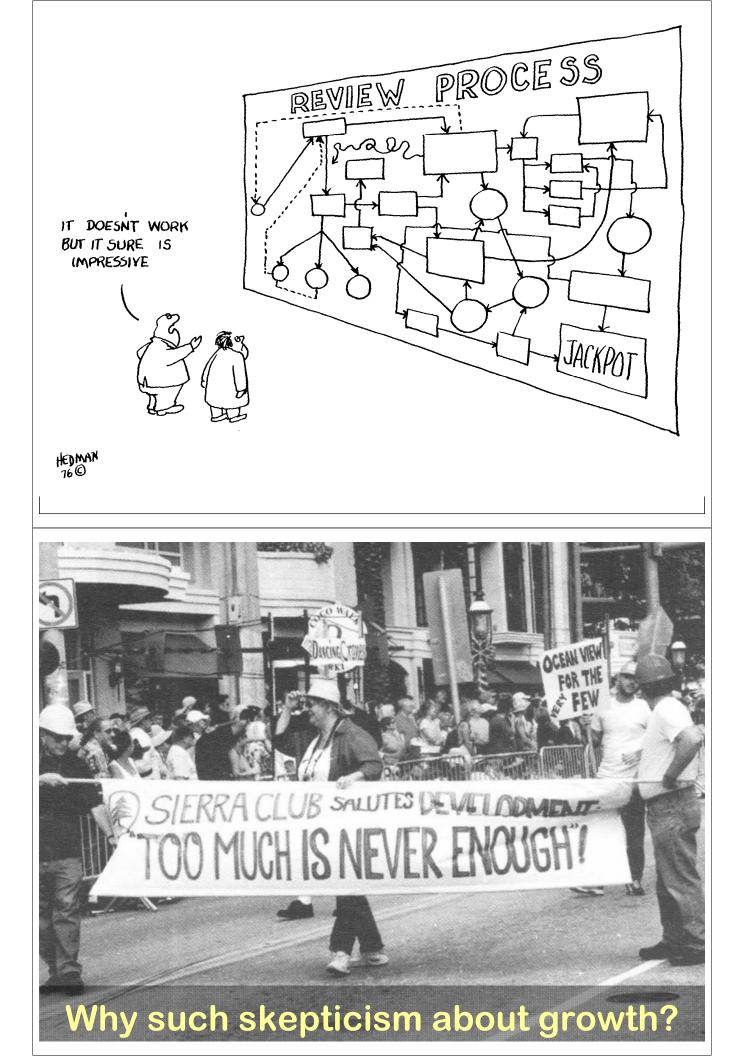
How do zoning codes affect urban form?

Ask a builder..

Ask an architect...

Ask elected officials...

Ask urban designers...



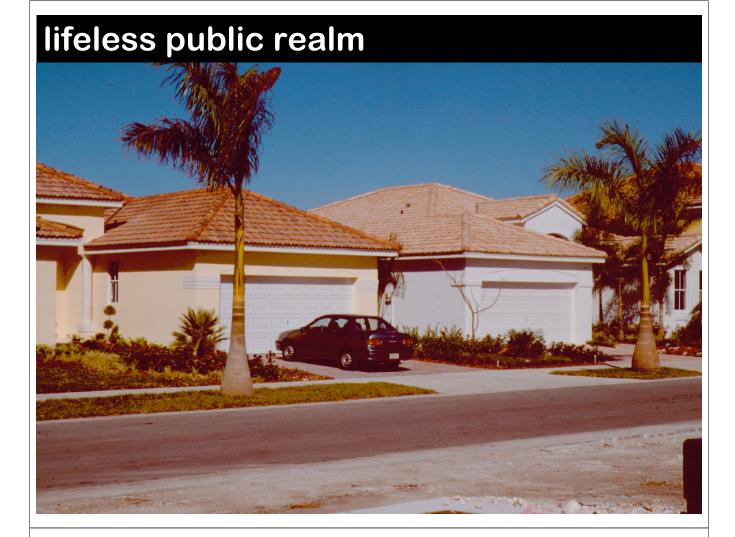
This is "red" on the zoning map



Strip Shopping Center, Fort Myers Beach

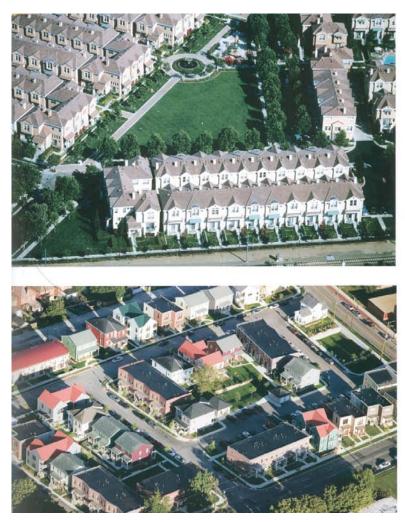
This is "red" on the map too





comfortable public realm





MONOCULTURE

Mass-produced housing is common at higher densities and in many cases provides the only affordable way to build. But some measure of variety is necessary to avoid monotony. These two developments provide a contrast in how to avoid the deadening effect of mass production. Both used a limited number of building designs. In Mountain View, California (above) the types were segregated by area, with each district limited to a single building type. The area shown is the "townhouse" section of the development. One model—a two-story townhouse design with slight variations—is repeated along each street. Contrast this with the new neighborhood in Columbus, Ohio, where five different models are interspersed within one block.

> Visualizing Density By Julie Campoli & Alex MacLeanl

CONVENTIONAL CODES

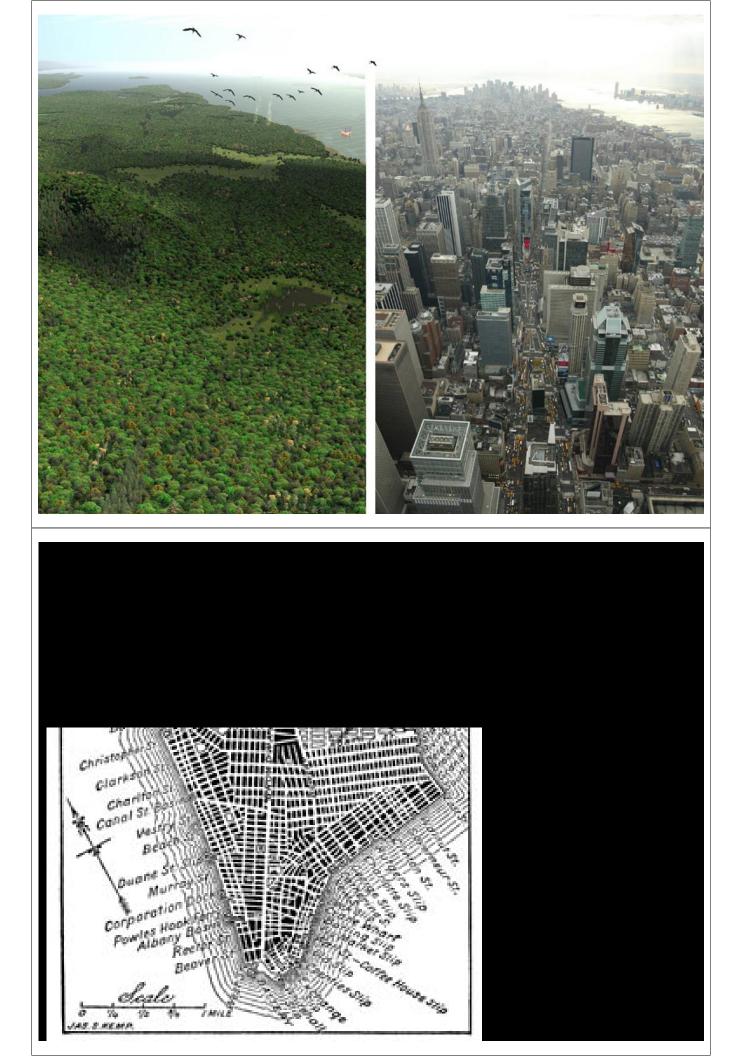
- Zoning and subdivision regulations
- Designed to separate incompatible uses
- Ideal for suburban development patterns

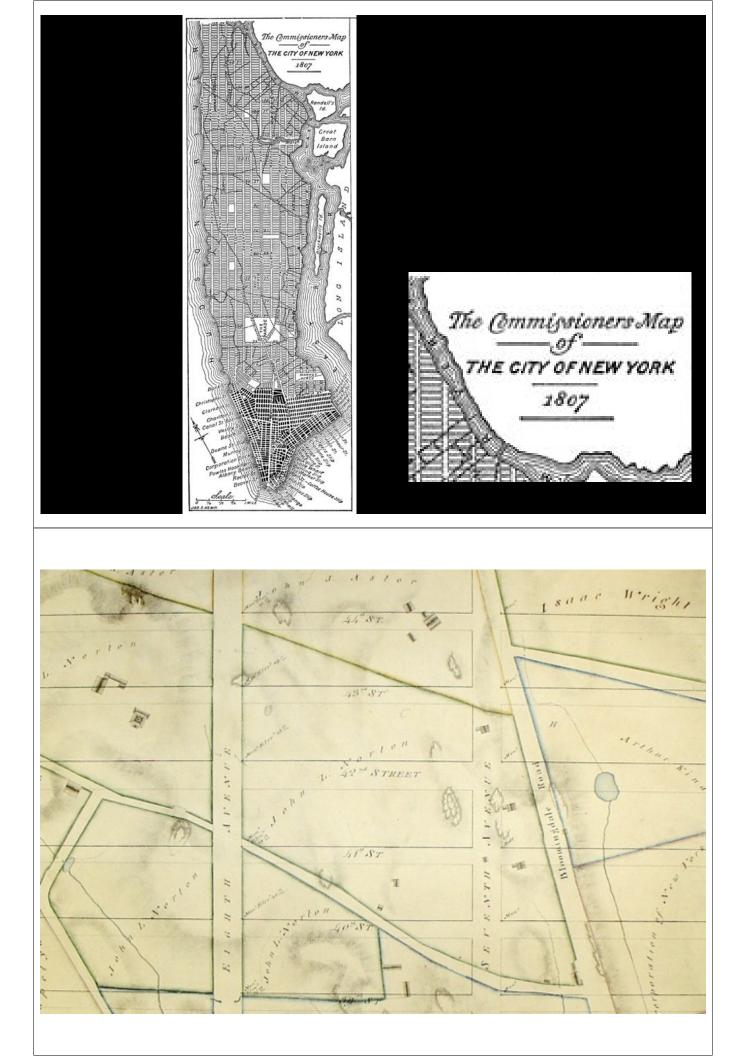
FORM-BASED CODES

- A relatively new name...
- For emerging regulatory techniques...
- To serve rebirth of interest in urbanism...

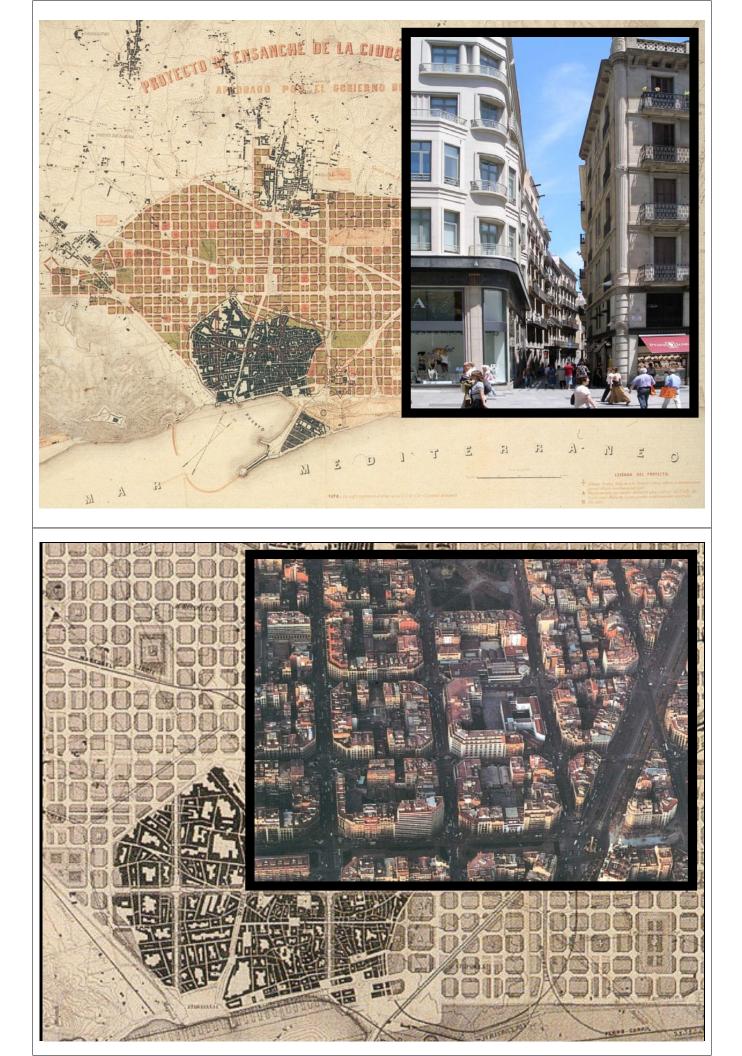
TONIGHT'S PRESENTATION:

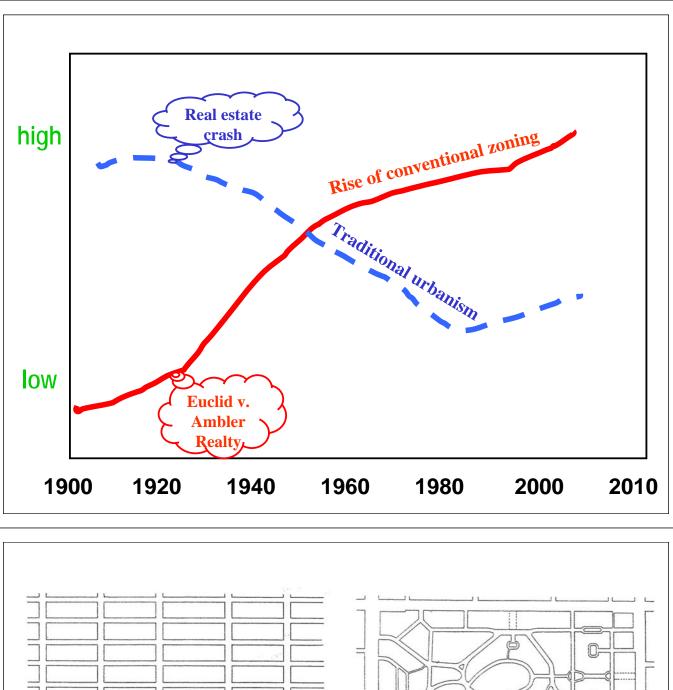
- 1. Comments on historical development of cities
- 2. Rise of zoning and decline of urbanism
- 3. How conventional and form-based codes differ
- 4. Form-based codes defined; common variations
- 5. Examples of form-based codes in current use
- 6. References for further study

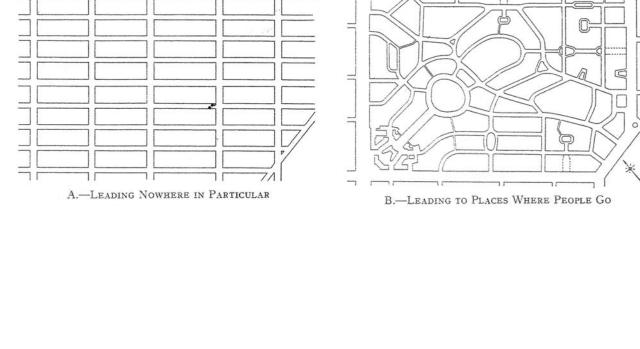




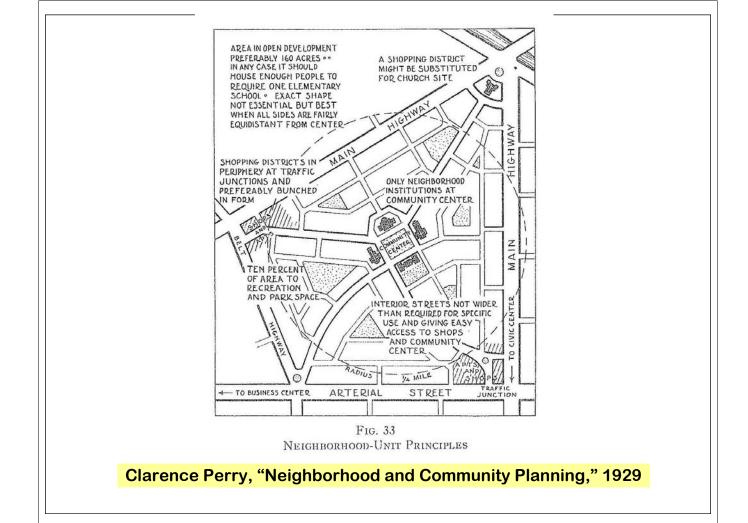


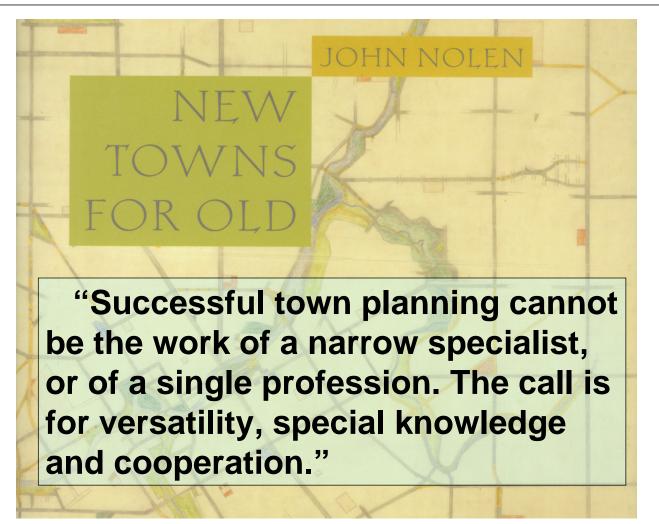






Clarence Perry, "Neighborhood and Community Planning," 1929





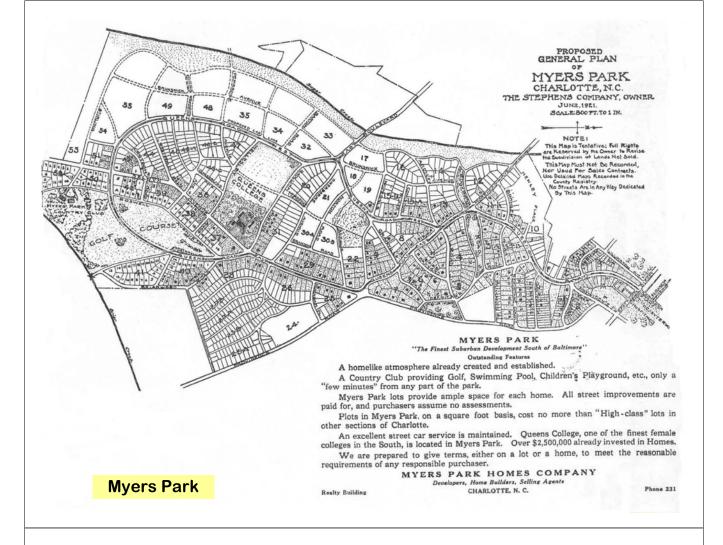
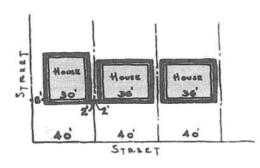
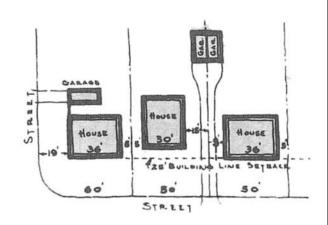


Figure 3.8

The U.S. Federal Housing Administration's 1938 neighborhood-standards suggestions for dos and don'ts for lot configurations and building setbacks. By the 1950s, the FHA's *Neighborhood Standards*—published in the *Land Planning Bulletin No. 3*—were widely utilized in each state. (*Source:* U.S. Federal Housing Administration, Technical Bulletin No. 7)

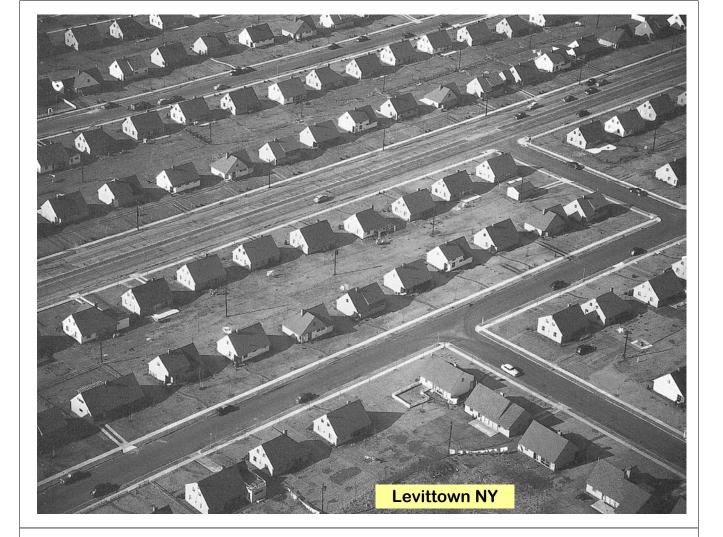
BAD





GOOD

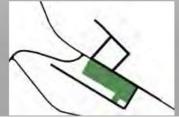
Federal Housing Administration (1938)



4 TO 5 UNITS PER ACRE















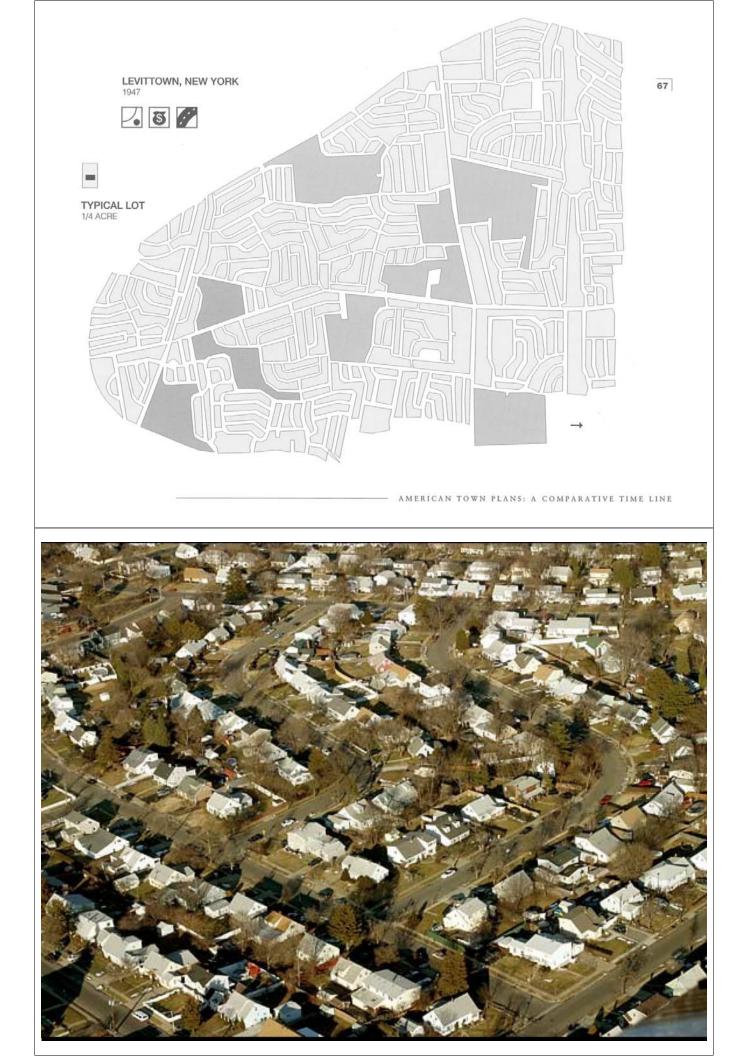


Levittown, NY 5.0 units / acre



neighborhood plan









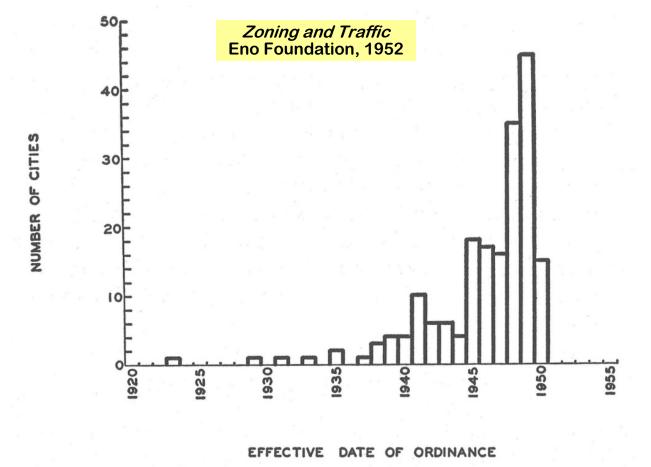


FIGURE 3. Growth in Adoption of Zoning for Parking Practices, 1923-1950.

A 1946 survey of 76 cities found that only 17 percent had parking requirements in their zoning ordinances.

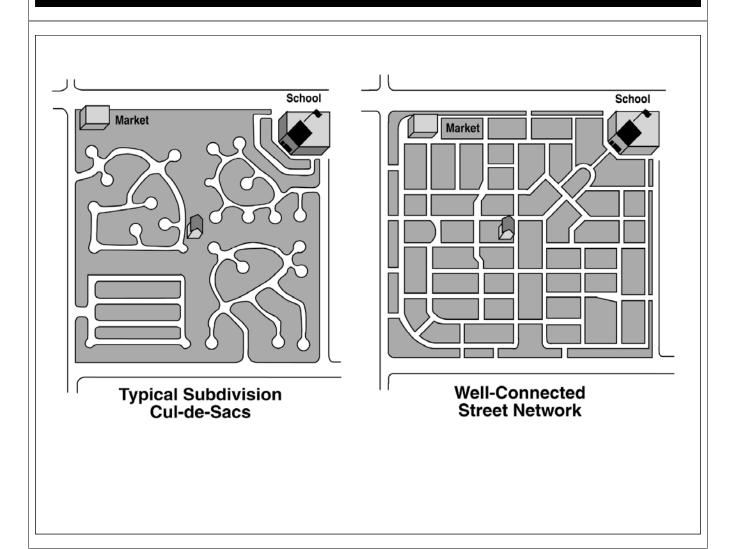
Five years later, 71 percent of these cities had parking requirements...

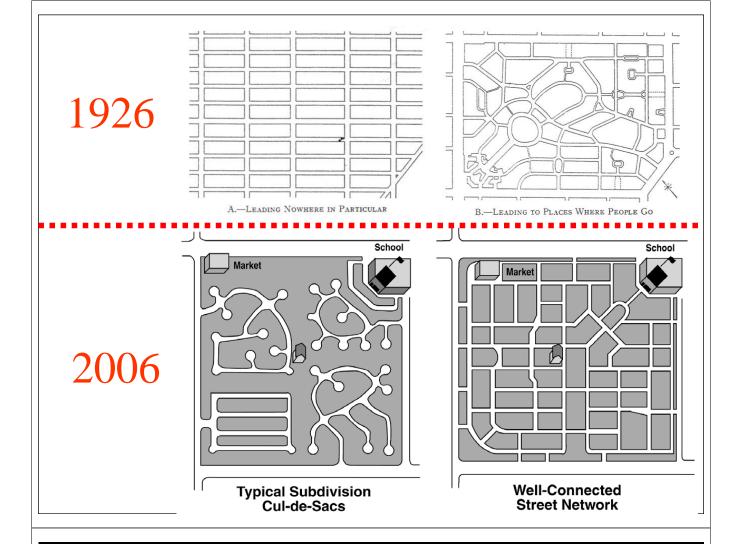


NEXT GENERATION OF PLANNING EXPERIMENTS:

- Reston (Virginia)
- Columbia (Maryland)
- Woodlands (Texas)

--- Led to P.U.D. zoning techniques (Planned Unit Developments)





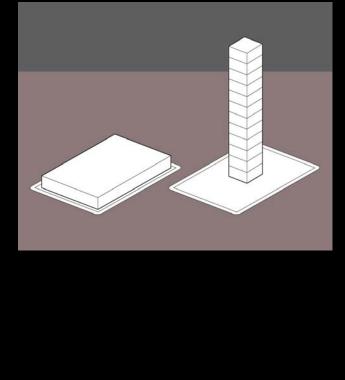
Conventional codes --- compared to--form-based codes...

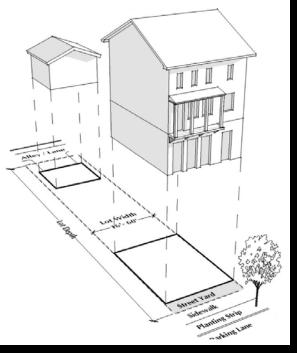
Conventional Code:

Form-Based Code:

...buildings can be random

...focus on building placement

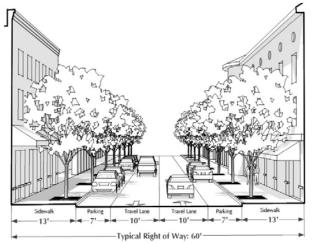




Conventional Code: ...ignores streets

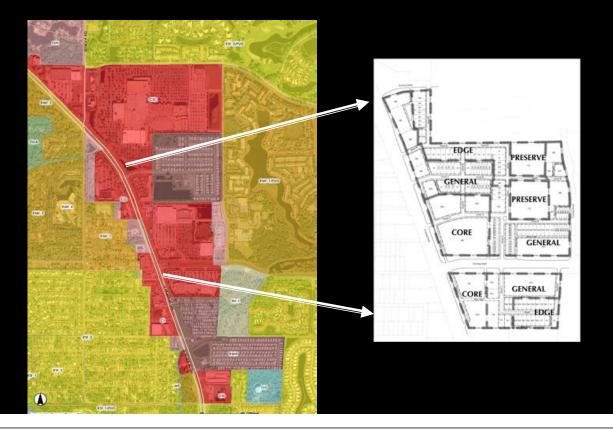
Form-Based Code: ...includes streets





Conventional Code: ...little detail

Form-Based Code: ...considerable detail



Conventional Code: ...mostly text

Sec. 1-1. Designation and citation of Land Development Code

The ordinances embraced in the following chapters and sections shall constitute and be designated as the "Lee County, Florida, Land Development Code," and also may be cited as the "Lee County Land Development Code "

(Ord. No. 94-12, § 1, 4-20-94)

State law references: Requirement that county codify and publish its ordinances, F.S. § 125.68.

Sec. 1-2. Rules of construction and definitions

(a) In the construction of this Land Development Code, and of all ordinances, the rules and definitions set out in this section shall be observed, unless inconsistent with the manifest intent of the Board of County Commissioners. The rules of construction and definitions in this section do not apply to any section of this Land Development Code that contains any express provisions excluding their application, or where the subject matter or context of such section may be repugnant thereto.

(b) Generally.

(1) All general provisions, terms, phrases and expressions contained in this Land Development Code will be liberally construed in order that the true intent and meaning of the Board of County Commissioners may be fully carried out.

- (2) Terms used in this Land Development Code, unless otherwise specifically provided, have the meanings prescribed by the statutes of the state for the same terms.
- (3) In the event of any difference in meaning or implication between the text of this Land De Code and any caption, illustration, summary table or illustrative table, the text shall control.
- (4) Any words used in the present tense shall include the future; and any words in the singular numb shall include the plural, and vice versa, unless the context clearly indicates the contrary, and words of the masculine gender shall be construed to include the feminine gender and vice versa.
- (5) Unless the context clearly indicates the contrary, where a regulation involves two or more items, conditions, provisions or events contexted by the conjunction has be interpreted as follows:
 - a. "And" indicates that all the connected terms, conditions, provisions or events shall apply
 - "Or" indicates that the connected terms, conditions, provisions or events may apply singly but not in any combination.
 - c. "Either . . . or" indicates that the connected terms, items, conditions, provisions or events shall apply singly but not in combination.
- (6) The provisions of this Land Development Code shall be liberally construed so as to effectively carry out its purpose in the interest of the public health, safety and welfare.

(c) This Land Development Code constitutes the minimum requirements adopted for the promotion of the public health, safety, comfort, convenience and general welfare. Where any provisions of this Land Development Code conflict user that one provision causes greater restrictions to be imposed than another provision, the provision imposing the greater restriction or regulation will control.

iv. The proposed street network should respect topography and designated environmental resources and be modified accordingly to avoid damages to such resources. Sidewalks and rows of street trees must be provided on both sides of all streets: <u>v.</u>

Form-Based Code:

street trees may be omitted where arcades or colonnades meet the standards in Section 6.11.5.e or where a street adjoins a natural area being preserved. To allow healthy tree growth, when street trees will be planted in tree wells or in planting strips narrower than 10 feet, the developer must support the surrounding sidewalk and parking lane with structural soil or

...highly illustrated

- provide an equivalent soil volume using a method acceptable to the county's urban forester. See also Sections 6.11.5.i and j regarding street trees.
- vi. Dead-end streets are not permitted except where physical conditions such as highways, sensitive natural resources, or unusual topography provide no practical connection alternatives. Each dead end must be detailed as a close (a small green area surrounded by a common driveway serving adjoining lots) and should provide pedestrian connectivity to the
- maximum extent practicable. vii. All streets must be publicly dedicated.
- Private streets and closed or gated streets are prohibited.

P () 999999 PPPPPP

CLOSE DETAILING EXAMPLE

000000000

State law references: Construction of statutes, F.S. ch. 1

Conventional Code:

...focus on uses of land

- 19. Baths, Turkish
- 25. Boxing arena
- 28. Chinchillas, retail sales
- 41. Eleemosynary institutions
- 42. Embalming business
- 95. Physical culture institution
- 109. Potato chip manufacturing
- 127. Tombstones, retail sales
- 135. Turkish bath

Form-Based Code:

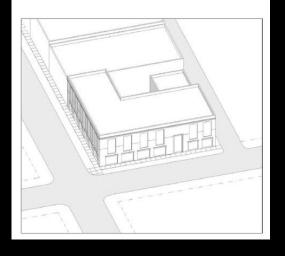
...focus on form of buildings and streets

ARCHITECTURAL TYPES

COMMERCIAL BLOCK

A building designed for occupancy by retail, service, and/or office uses on the ground floor, with upper floors also configured for those uses or for dwelling units.

Each Commercial Block shall be designed to comply with the following standards, and the frontage type requirements of this Code for the applicable zone, except where the frontage type requirements are modified by this Section.



FORM-BASED CODE:

A method of regulating development to achieve a specific urban form.

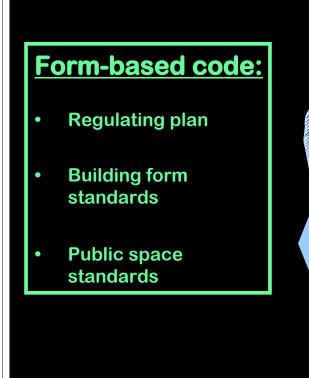
Form-based codes create a predictable public realm by controlling physical form primarily, with a lesser focus on land use....



- Regulating plan
- Building form standards
- Public space standards

REGULATING PLAN:

The map in a form-based code that shows streets and public open spaces and designates where various building form standards will apply. A regulating plan helps translate a master plan into placespecific development regulations.



Conventional code:

- Zoning districts.
- Variances
- Subdivision regulations
- Sign regulations

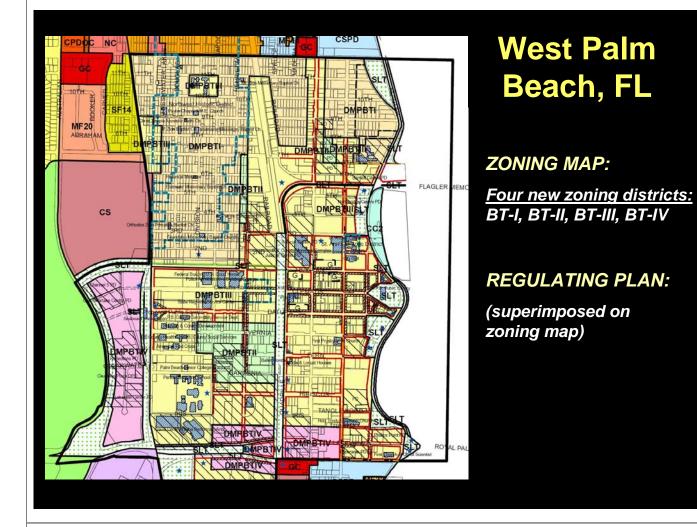
Types of links between form-based codes and conventional codes:

- 1. Mandatory form-based code
- 2. Optional (parallel) form-based code
- 3. Floating zone form-based code
 - (Planned Development /
 - **Planned Unit Development)**

FORM-BASED CODE EXAMPLES:

- West Palm Beach FL
- "Downtown Kendall" FL
- Fifth Avenue South, Naples FL
- Sarasota County FL
- Fort Myers Beach FL





| Sec. 94-103. | Building type I | ; yard building. | |
|--------------|------------------------|------------------|--|
|--------------|------------------------|------------------|--|

| (a) Building height. For building type I the height of the follows: Principal buildings shall be a maximum of 2 1/2 sto | |
|--|--|
| maximum of two stories. | Building placement |
| (b) <i>Building placement.</i> For building type I, buildings, placed on their lots as follows: | • Building use |
| (1) Facades shall be built parallel to the frontage length with a setback of 25 feet from the frontage | lin |
| setback shall match one or the other of the existing a | • Architectural standards |
| (2) Side setbacks shall be a total of 20 percent of t each side. In the case of an infill lot, the side setback setback. | |
| be setback a minimum of 15 feet from the cent | ype I: yard building ype Ila: urban house |
| (4) In the event of adjacent preexisting setbac | ype llb: row house |
| (5) Open porches, stairs and ramps may encr | ype llc: courtyard building |
| (6) Streetwalls and fences at street fronts and • 1 48 inches in height. Garden walls and fences | ype lld: urban house |
| height. • T | ype lle: live/work building |
| (c) Building use. Building type I buildings shall accom | ype III: medium building |
| • 1 | ype IV: tower building |



PRE-CODE BUILDINGS:

Parking garage along the sidewalk



TYPE III BUILDING:

101 Clematis (corner building)

Primary street on right – fully lined garage

Secondary street on left – garage exposed



TYPE III BUILDING: Community Foundation



TYPE IV BUILDING:

The Strand

re-imagining the "edge city"



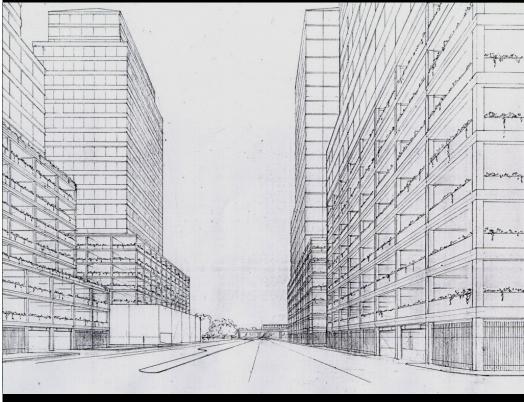
"Dadeland Regional Activity Center"...

re-imagined "edge city"





smarter regulations

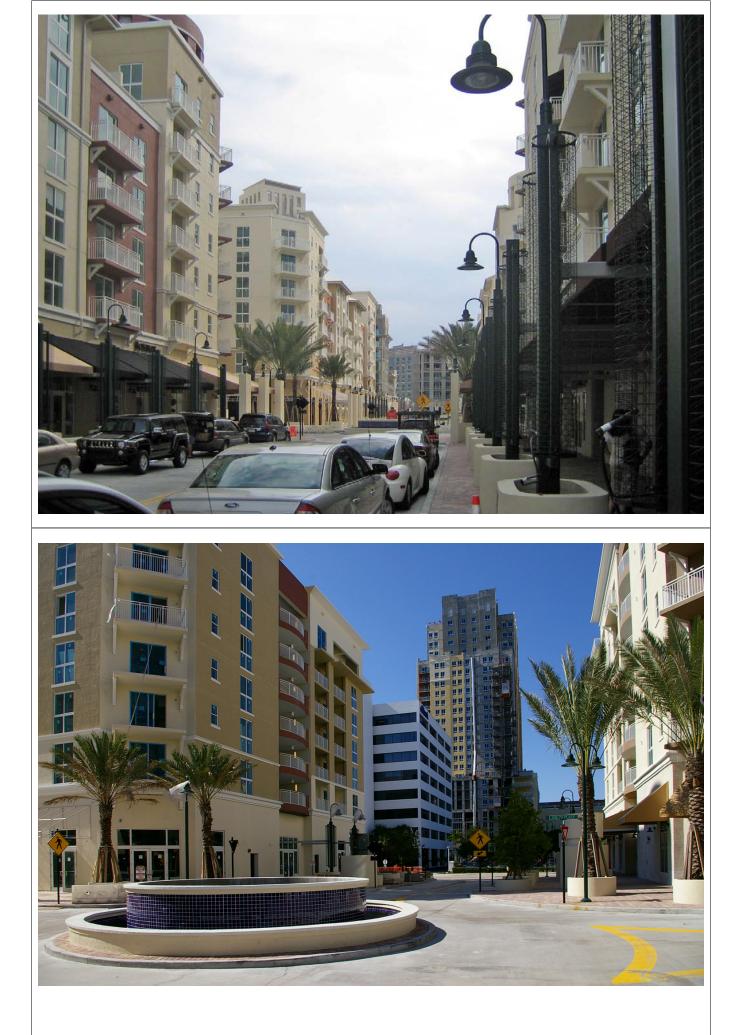


Old Zoning

smarter regulations

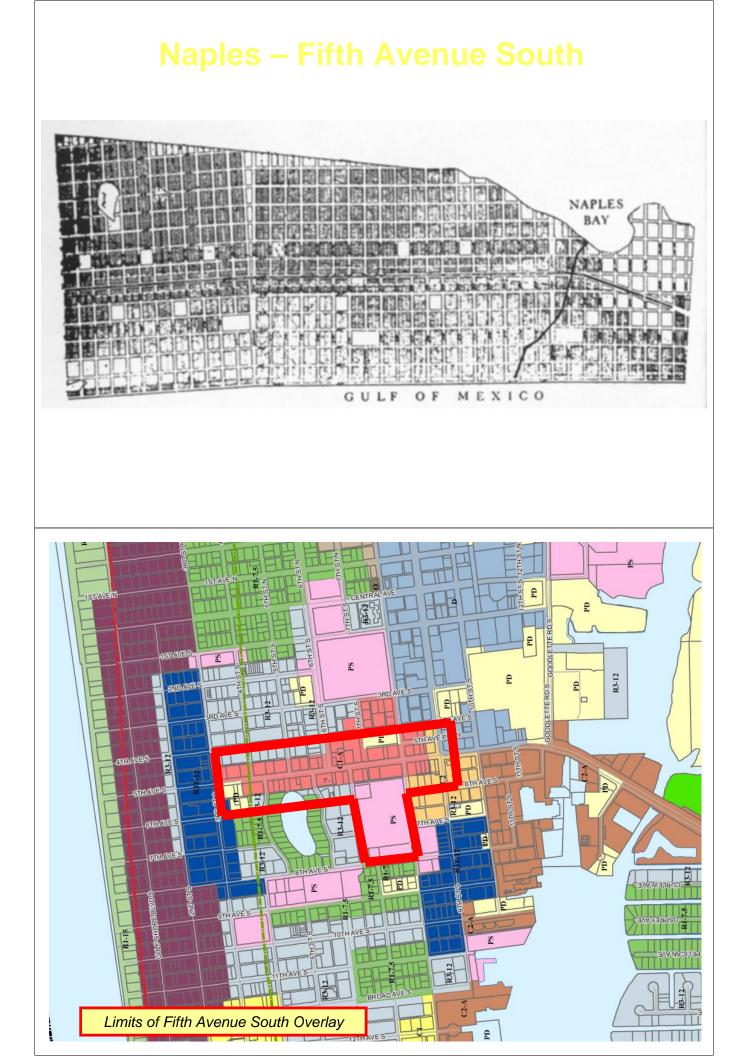


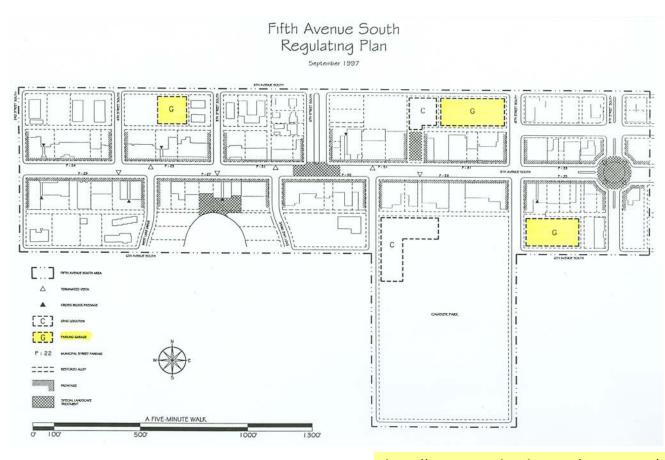
Downtown Kendall Code





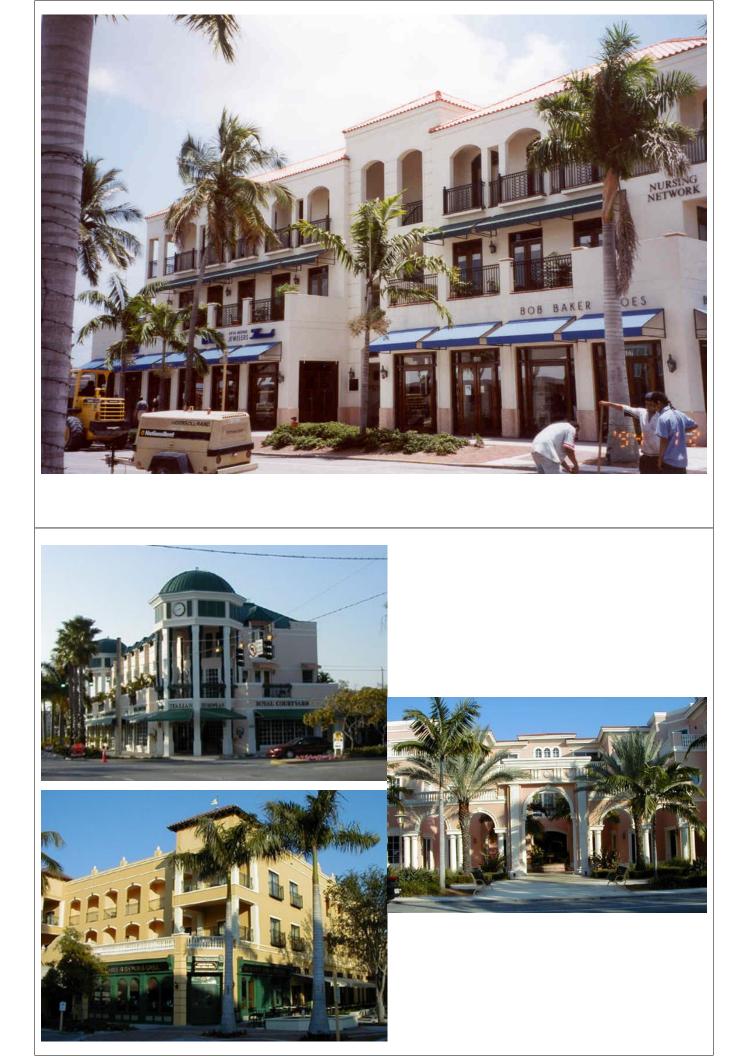


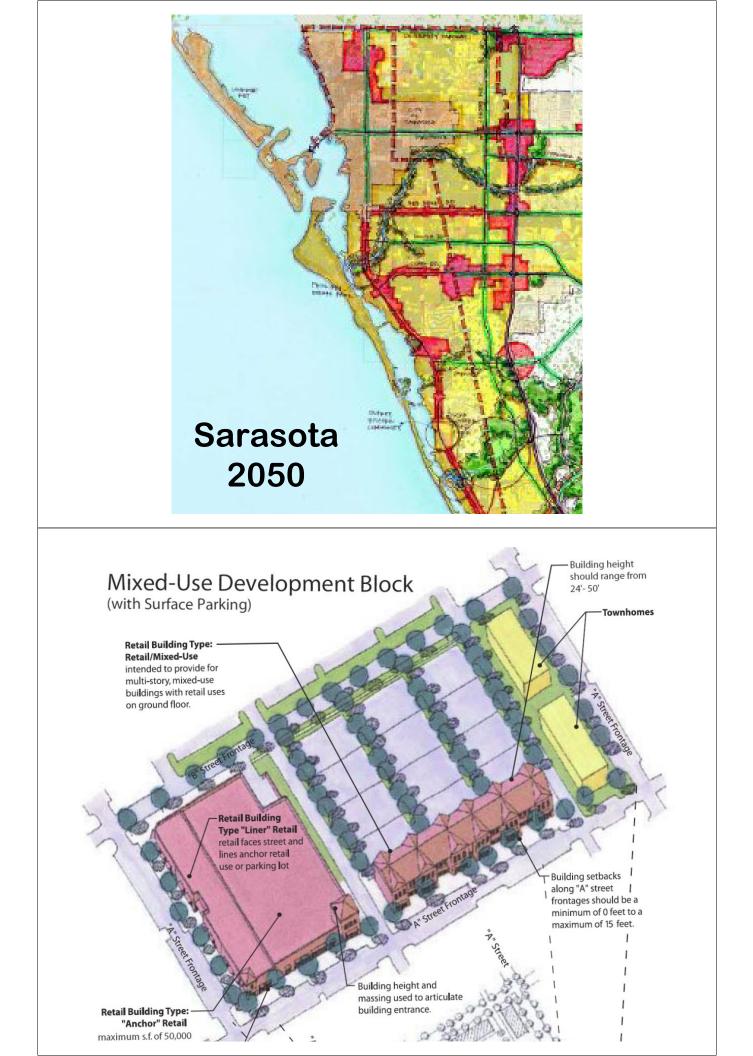


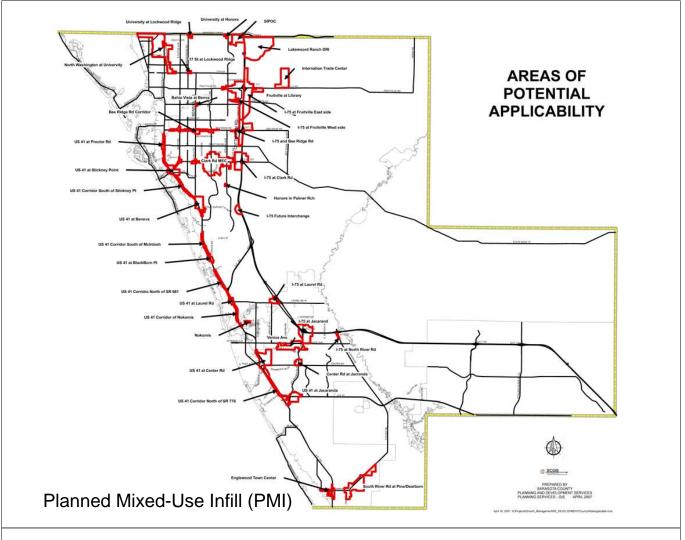


http://www.municode.com/resources/ gateway.asp?pid=10201&sid=9









example site



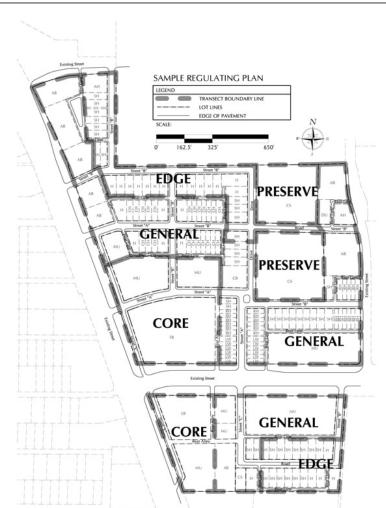
Existing aerial photo

Establish a vision using key principles:

- A densely **interconnected street network**, dispersing traffic and providing convenient routes for pedestrians and bicyclists.
- High-quality public spaces, with all building facades having windows and doors facing tree-lined streets, plazas, squares, and neighborhood parks.
- **Compact** development, creating a **walkable** urban environment and conserving land and energy through reduced automobile usage and advanced techniques such as stormwater infiltration.
- Diversity not homogeneity, with a variety of building types, street types, open spaces, and land uses providing for people of all ages and every form of mobility.
- Resilient and **sustainable neighborhoods**, adaptable over time to improved **public transit** and to changing economic conditions.

implementation

details

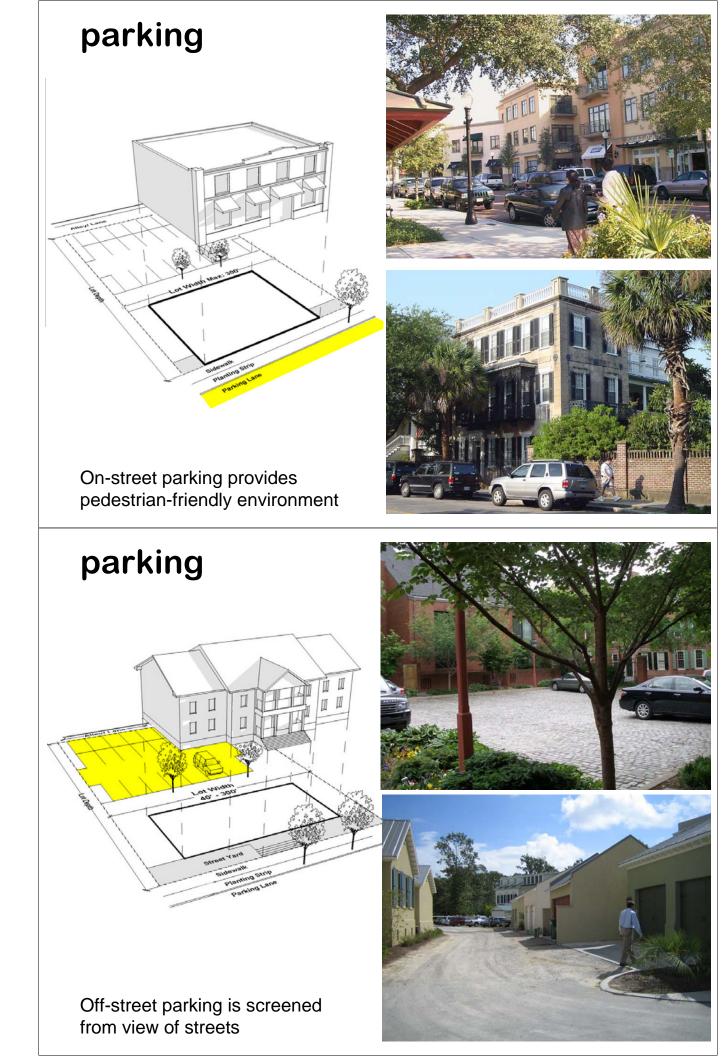


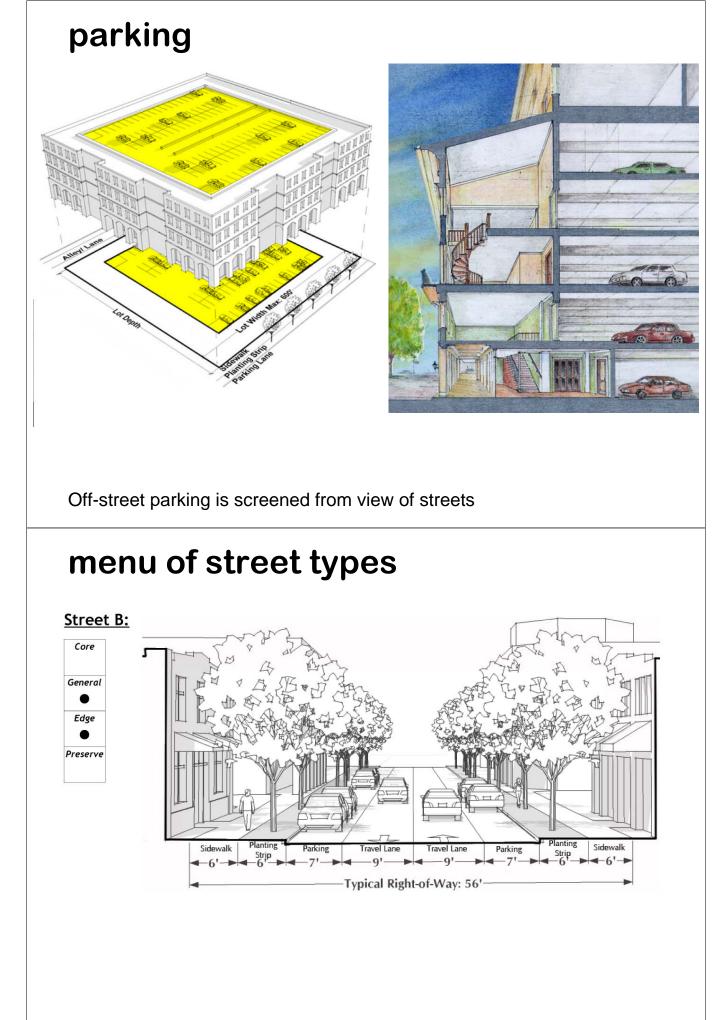
SAMPLE ILLUSTRATIVE PLAN

10000

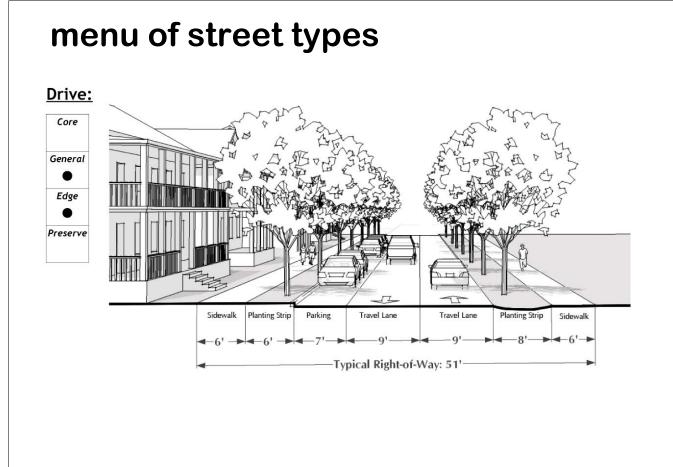
SCALE

Regulating Plan



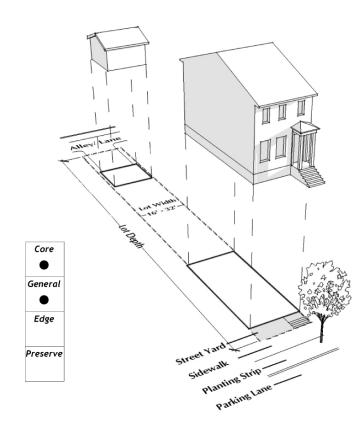


Movement type: slow



Movement type: slow

menu of lot types

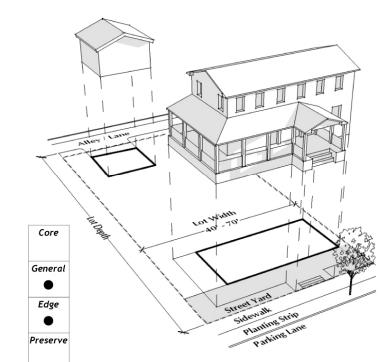






Rowhouse

menu of lot types



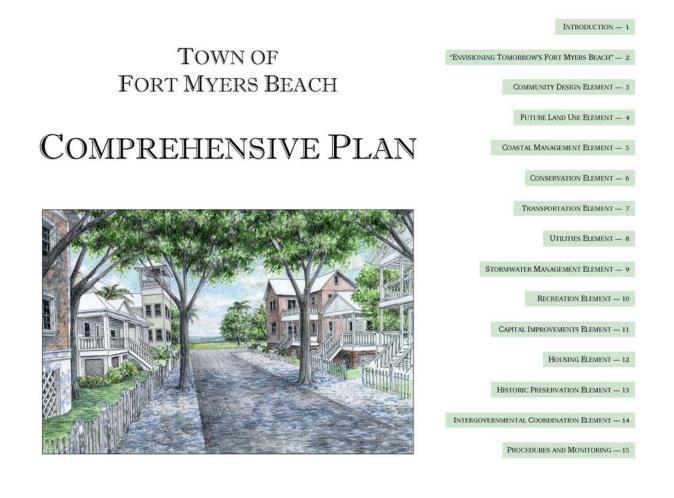




House







TOWN OF FORT MYERS BEACH, FLORIDA LAND DEVELOPMENT CODE

| CHAPTER 1 | General Provisions | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 02-01, 2/4/02 Amended by Ord. No. 05-07, 4/18/05 |
|------------|--|--|
| CHAPTER 2 | Administration | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 00-11, 6-29-00 Amended by Ord. No. 02-01, 2/4/02 (§§2-301–459) Amended by Ord. No. 03-12, 12/15/03 (§§2-420–459) Amended by Ord. No. 05-07, 4/18/05 |
| CHAPTER 6 | Maintenance Codes, Building Codes, and Coastal Regulations | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 00-12, 6/29/00 Amended by Ord. No. 02-01, 2/4/02 (§§6-401–474) Amended by Ord. No. 04-09, 6/30/04 (§§6-401–474) Amended by Ord. No. 05-07, 4/18/05 |
| CHAPTER 10 | Development Orders and Engineering Standards | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 04-01, 1/5/04 Amended by Ord. No. 05-07, 4/18/05 |
| CHAPTER 14 | Environment and Natural Resources | Adopted by Town Charter, 12/31/95 Amended by Ord. No. 98-3, 4/6/98 Replaced by Ord. No. 02-01, 2/4/02 Amended by Ord. No. 02-29, 9/26/02 (§§14-6, 14-78) Amended by Ord. No. 05-24, 6/27/05 (since repealed) |
| CHAPTER 22 | Historic Preservation | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 02-01, 2/4/02 |
| CHAPTER 26 | Marine Facilities | Adopted by Town Charter, 12/31/95 Replaced by Ord. No. 02-01. 2/4/02 |

1. Less emphasis on uses of land

Sec. 34-622. Uses groups and sub-groups.

(a) Allowable land uses are assigned by Table 34-1 to one of six use groups:

- (1) Residential
- (2) Lodging
- (3) Office
- (4) Retail
- (5) Marine
- (6) Civic

(b) Within each use group, Table 34-1 also assigns each allowable land use to one of three subgroups:

- (1) **R**-Restricted
- (2) L -Limited (which includes all R uses)
- (3) **O** -Open (which includes all R and L uses)

1. Less emphasis on uses of land

2. Reduced off-street parking

Sec. 34-676

DOWNTOWN

Sec. 34-676. Circulation and parking.

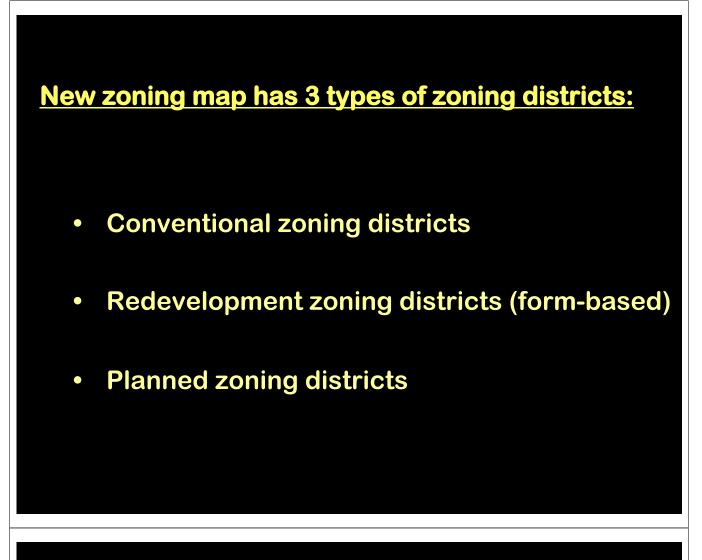
(a) *Off-street parking reductions*. The DOWNTOWN district is planned as a "park-once" district, with preference given to pedestrian movement within the district. On-street parking will be provided by the town along Old San Carlos Boulevard and other public parking is available under the Sky Bridge. For these reasons, substantial reductions are allowed to the normal off-street parking requirements found in § 34-2020. The follow percentages shall be multiplied by the number of off-street parking spaces normally required by § 34-2020 to determine the adjusted offstreet parking requirements along various streets in the DOWNTOWN district:

- (1) Old San Carlos Boulevard, multiply by 50%.
- (2) Bayfront pedestrian plazas (see Figure 34-6), multiply by 50%. No parking spaces may be provided in the Bayfront pedestrian plaza, but the required spaces must be located within 750 feet in single-purpose, shared, or jointuse parking lots (see division 26 of this chapter).
- (3) Times Square pedestrian plaza (see Figure 34-6), multiply by 0%.
- (4) All other streets in the DOWNTOWN district, and all land on Crescent Street regardless of zoning district, multiply by 67%.

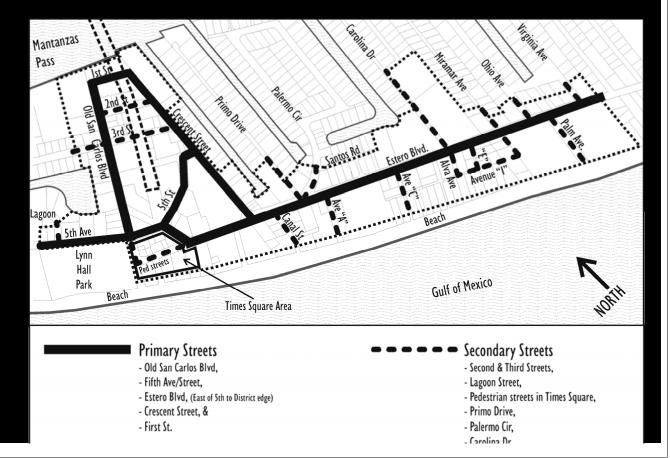
- 1. Less emphasis on uses of land
- 2. Reduced on-site parking

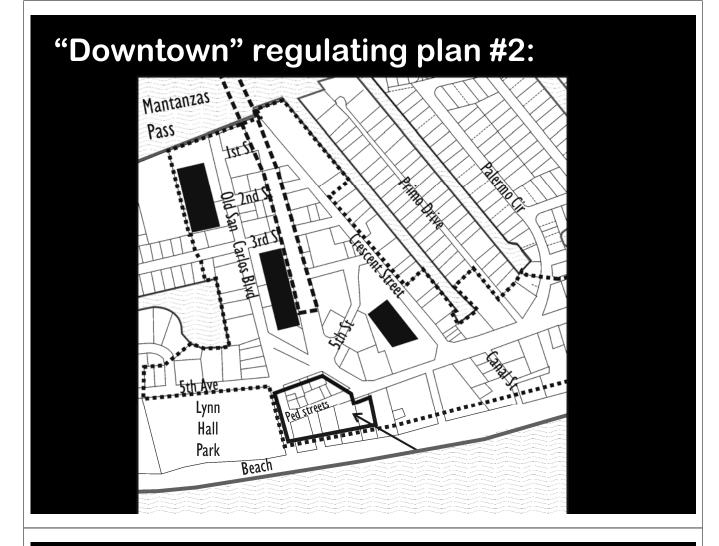
3. New zoning map eased transition to form-based coding



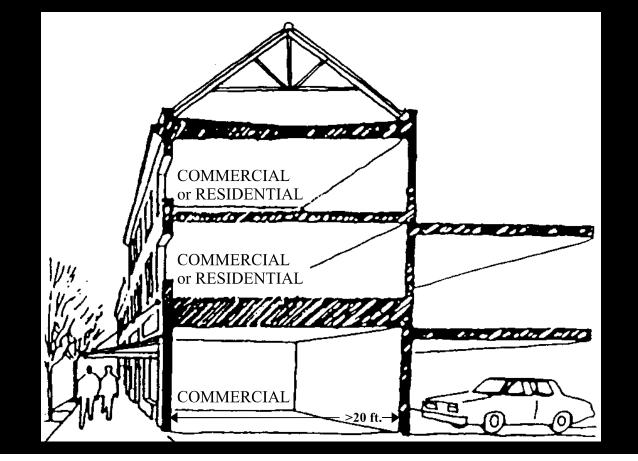


"Downtown" regulating plan #1:





"Downtown" building form standards:

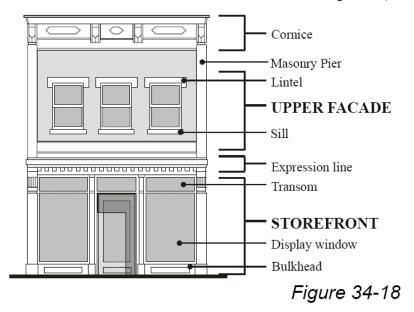


- 1. Less emphasis on uses of land
- 2. Reduced on-site parking
- 3. New zoning map eased transition to form-based coding

4. Commercial design standards (not guidelines)

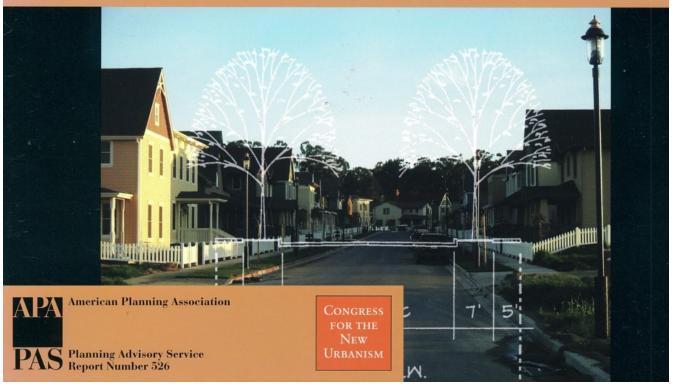
(a) *Facade elements.* Principal facades are the primary faces of buildings. Being in full public view, they shall be given special architectural treatment.

 All principal facades shall have a prominent cornice and expression line, a working entrance, and windows (except for side-wall facades where entrances are not required).



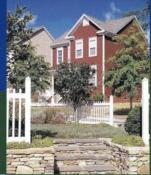
Codifying New Urbanism

How to Reform Municipal Land Development Regulations



Smart Growth Zoning Codes: A Resource Guide

Local Government Commission by Steve Tracy

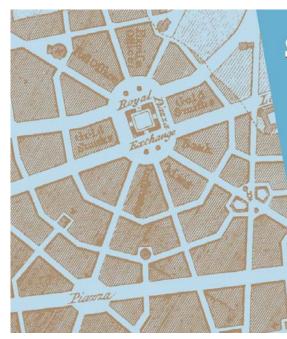




FORTHCOMING BOOKS:• "Form-Based Codes" by Paul Crawford,
Daniel Parolek and Karen Parolek• "A Legal Guide to Urban and Sustainable
Development for Planners, Developers and
Architects" by Doris Goldstein, Dan Slone
and Andy Gowder

For more information on form-based codes:

www.formbasedcodes.org



SPIKOWSKI Planning Associates

William M. Spikowski, AICP

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