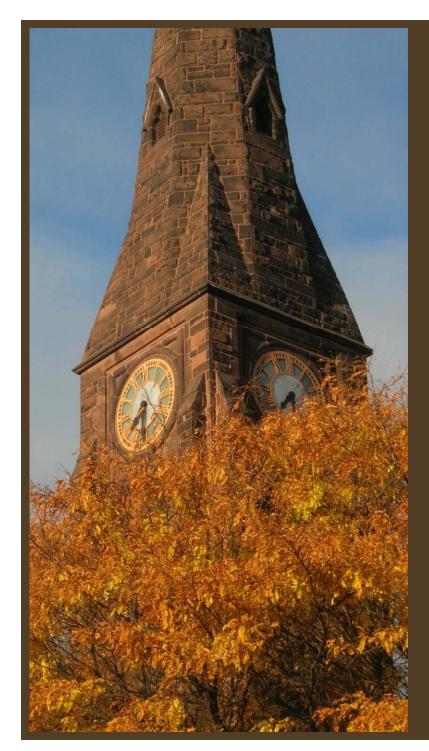
Envisioning SUSTAINABLE NORTHAMPTON

UNIVERSITY OF NOTRE DAME SCHOOL OF ARCHITECTURE



OUTLINE

Introduction & background

Observation of existing conditions

History of development in Northampton

The threat of sprawl

Sustainable Northampton

OUR DESIGN PROPOSALS I. Reinforcing the historic centers: Downtown, Leeds, Baystate, Florence II. New development: Village Hill III. Retrofitting sprawl: King Street

Conclusion

PROJECT BACKGROUND

University of Notre Dame School of Architecture

Northampton Design Forum

Design Northampton Week



DESIGN NORTHAMPTON WEEK

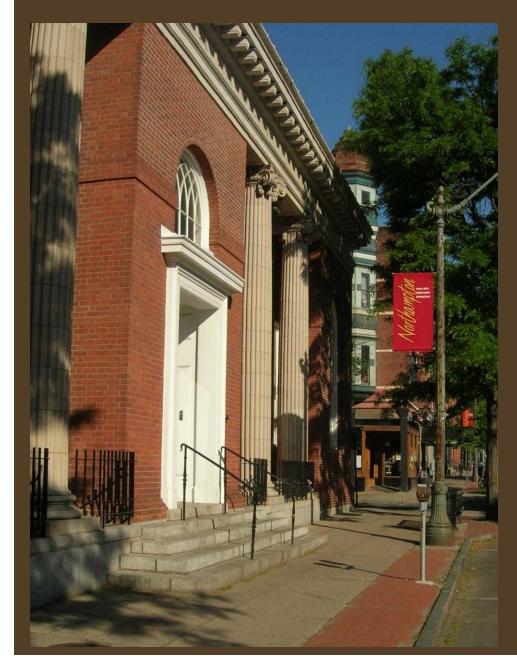








WHAT WE HEARD FROM YOU



CONCERNS OF THE COMMUNITY

- Land conservation
- Environmental protection
- •Affordable housing
- Survival of local business, agriculture
- Lengthy approval process for development
- Taxes & public revenue
- Education, arts, culture
- Fear of growth/density
- Traffic & parking
- Public transit
- Design for pedestrians, cyclists









EVOLUTION of a CITY

A brief history of development in Northampton

FIGURE-GROUND DIAGRAMS



FIGURE-GROUND DIAGRAMS

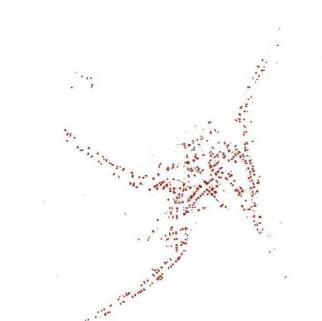


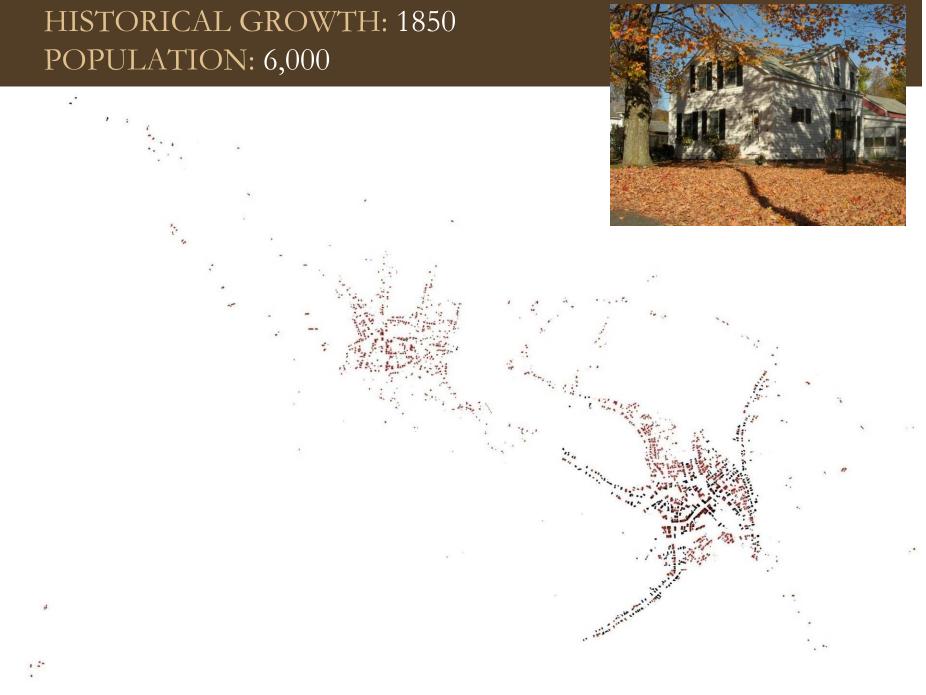
HISTORICAL GROWTH: 1800 POPULATION: 2,000

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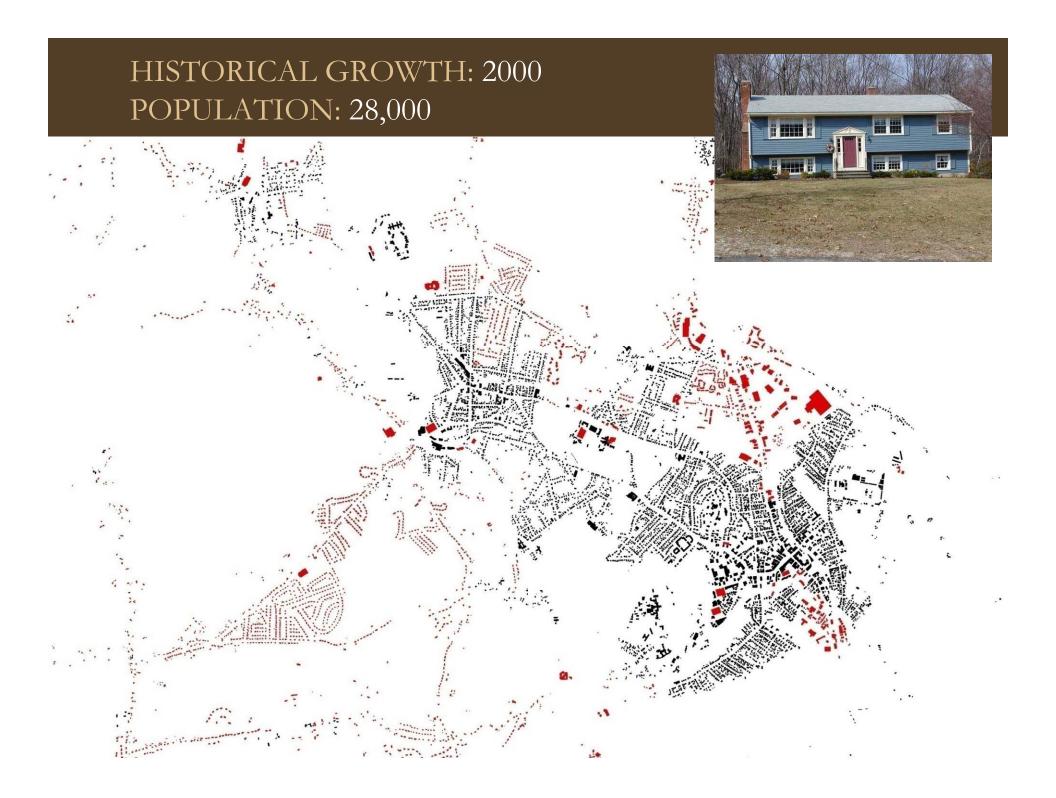














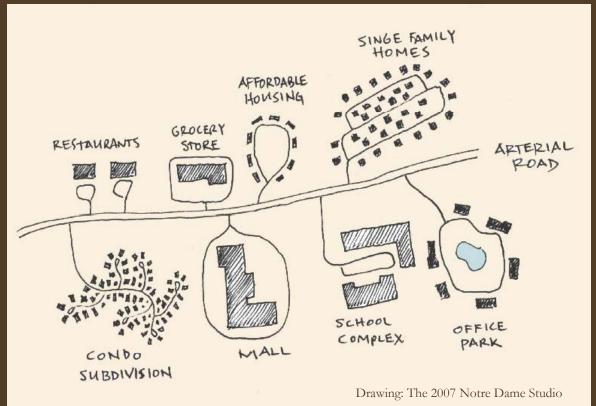






- Completely dependent on cars not walkable.
- Diminished sense of community, due to loss of public realm
- Affordable housing is isolated from the rest of the community
- Requires massive public infrastructure; more difficult to serve by police, fire, etc.
- Loss of natural land and damage to the natural environment

NOT SUSTAINABLE.







The City Sprawl VS.

Quarter-Mile radius circle: 5-minute walk from center to edge

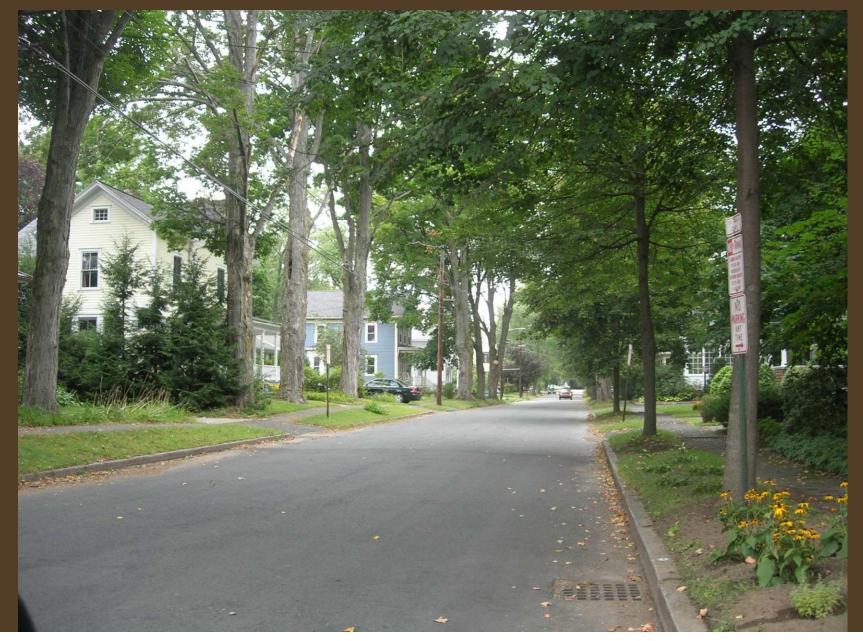
THE CITY vs. SPRAWL: Traditional Mixed-use Center



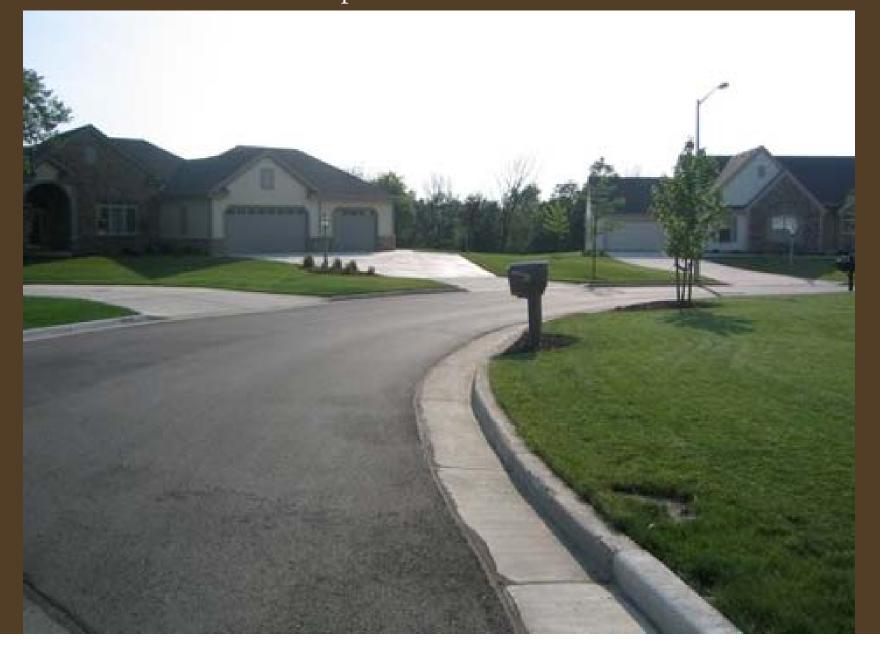
THE CITY vs. SPRAWL Sprawl Commercial



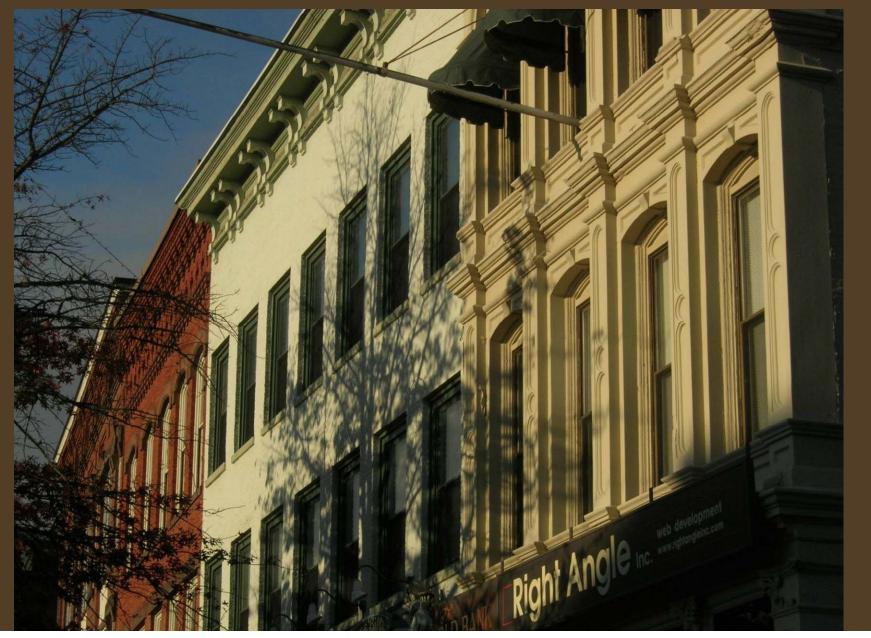
NORTHAMPTON'S BUILT ENVIRONMENT: Traditional Residential



THE CITY vs. SPRAWL Sprawl Residential



THE CITY vs. SPRAWL Traditional Street Facade

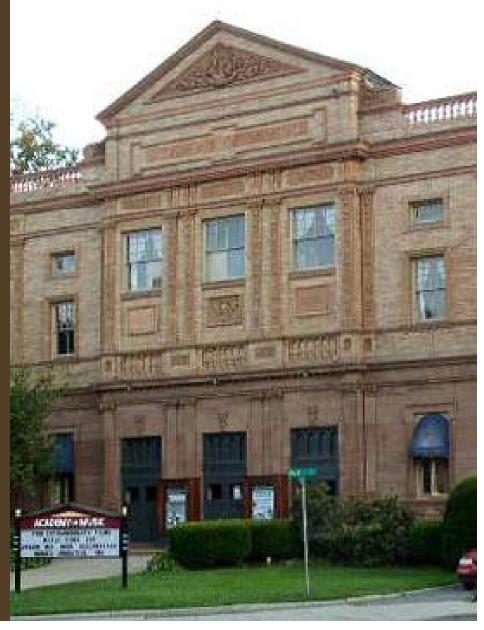


NORTHAMPTON'S BUILT ENVIRONMENT: Sprawl Street Facade



THE CITY vs. SPRAWL Traditional Civic Architecture





THE CITY vs. SPRAWL Recent Civic Architecture





HOW DO WE FIX THIS?

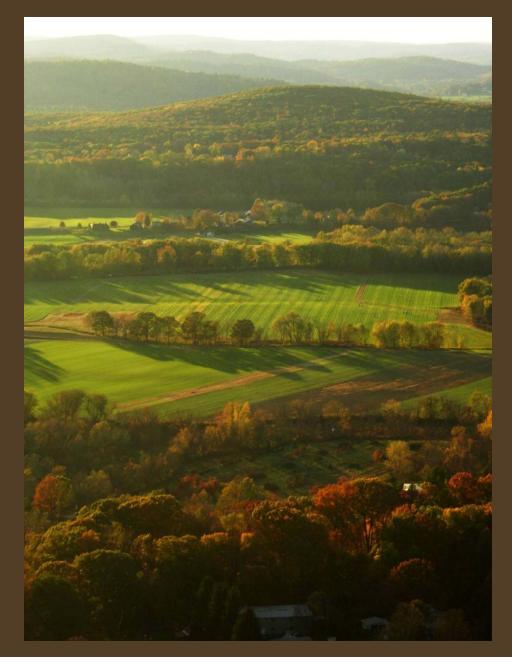
A strategy for sustainability

SUSTAINABLE NORTHAMPTON

"SUSTAINABLE DEVELOPMENT

is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

- The Bruntland Commission on Environment and Development, United Nations 1983



SUSTAINABLE NORTHAMPTON



PRINCIPLES

- Support a diverse and integrated community
- Improve energy efficiency
- Support a wide variety of housing types
- Support artists and the arts
- Maintain a mix of urban and rural areas
- Foster the history, character and function of each neighborhood
- Encourage a diverse and vibrant economy
- Make the city more walkable, bikeable, transitoriented

SUSTAINABLE NORTHAMPTON

STRATEGIES

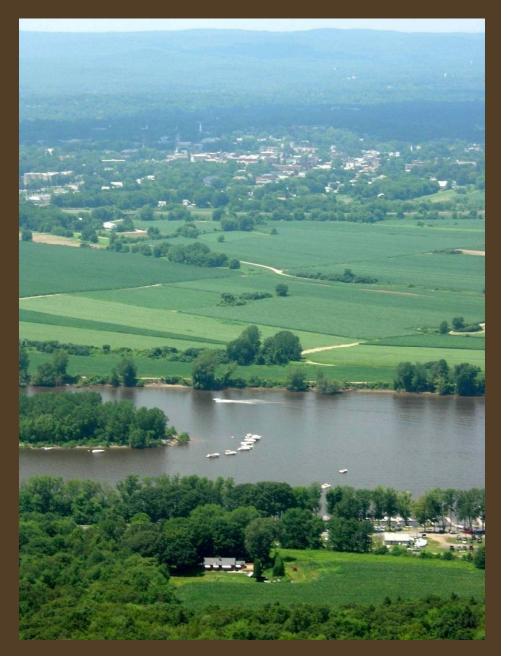
• Encourage mixed use, high density, walkable development near existing centers, including Downtown Northampton, Hospital Hill Florence, Baystate & Leeds

• Provide affordable housing for a mix of incomes

• Convert public and private parking lots to private mixed use development with parking structures

• Calm traffic through use of roundabouts, street trees sidewalks, on-street parking, and by building close to the street

• Consider changes to zoning code, especially the adoption of form-based code



TRADITIONAL URBANISM

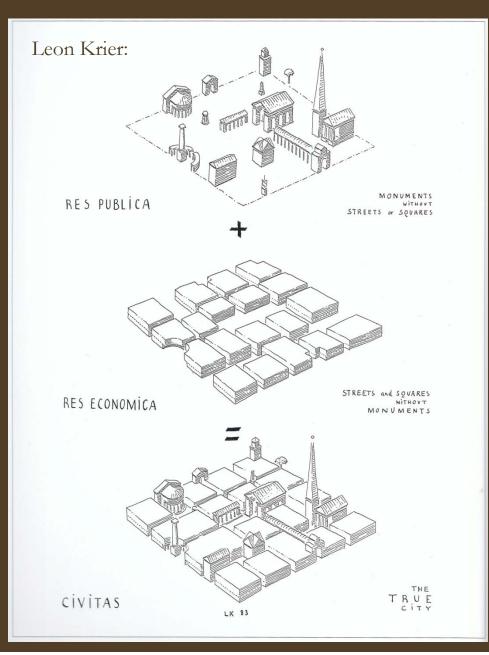
"Traditional urbanism and architecture provide the only comprehensive approach to the challenges of environmental sustainability. Only their enduring lessons address the full spectrum of issues involved: from regional land use and resource management, to the development of healthy communities and lifestyles, to durable, energy-efficient, non-toxic built environments. In addition, both beauty and the character of the citizenry must be understood as integral components of a sustainable culture. A place must be loved if it is to be sustained; and love entails happy and willing

sacrifice."

- G.K. David, University of Notre Dame

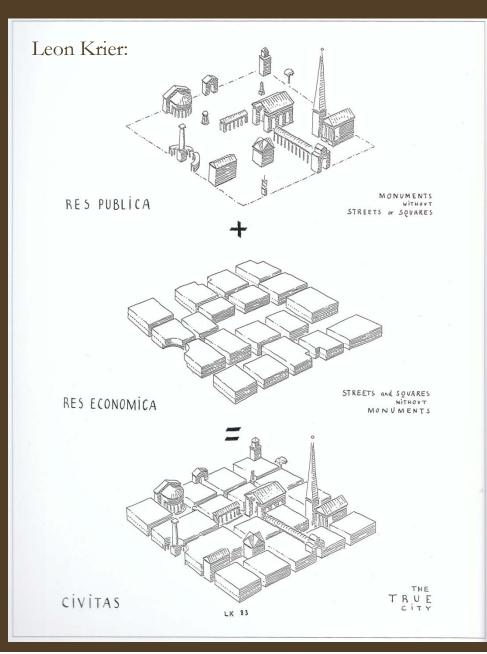


TRADITIONAL URBANISM





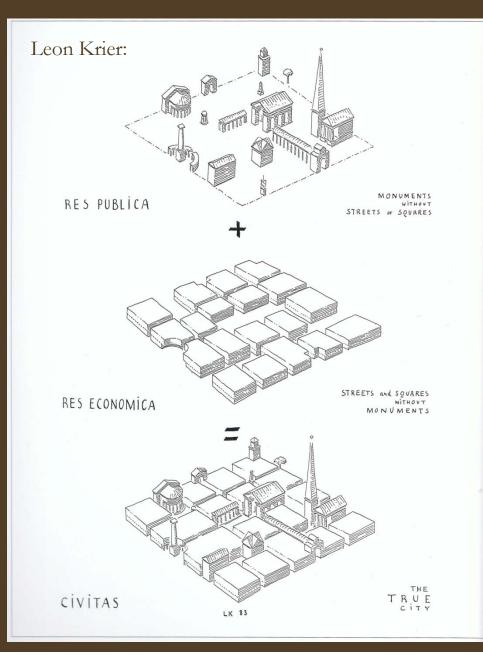
TRADITIONAL URBANISM







TRADITIONAL URBANISM

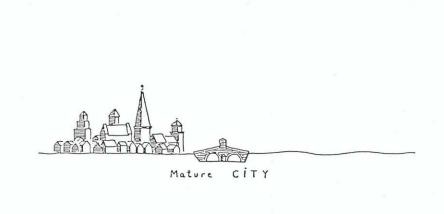


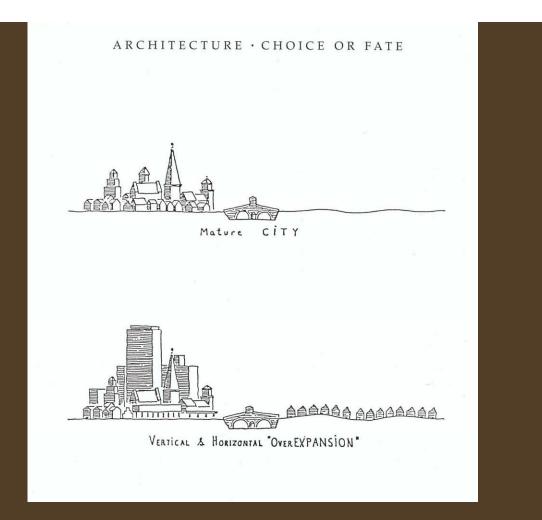


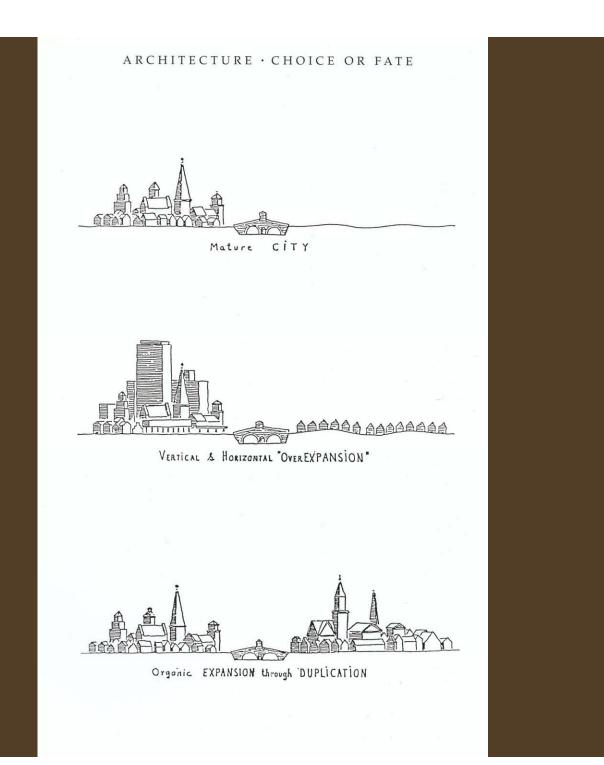




ARCHITECTURE · CHOICE OR FATE







NORTHAMPTON TODAY

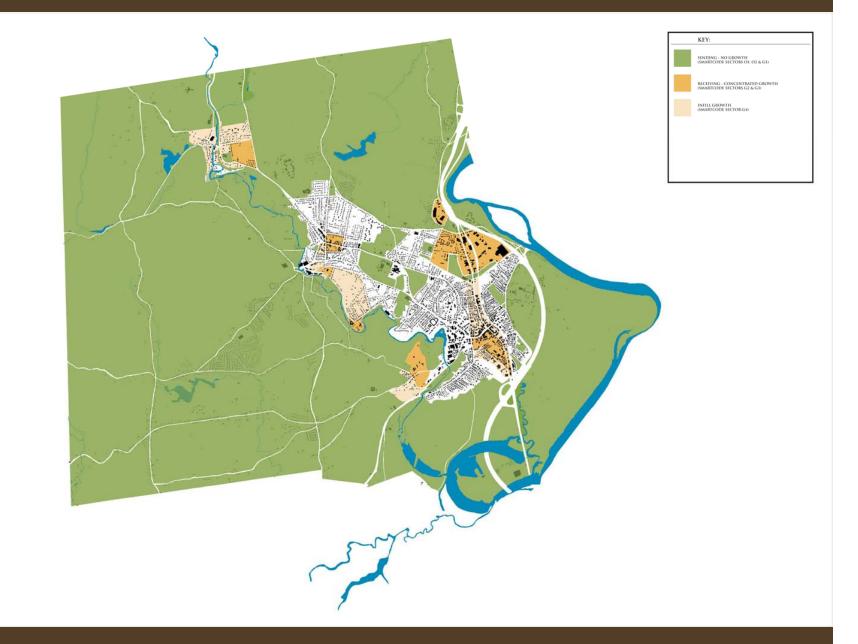




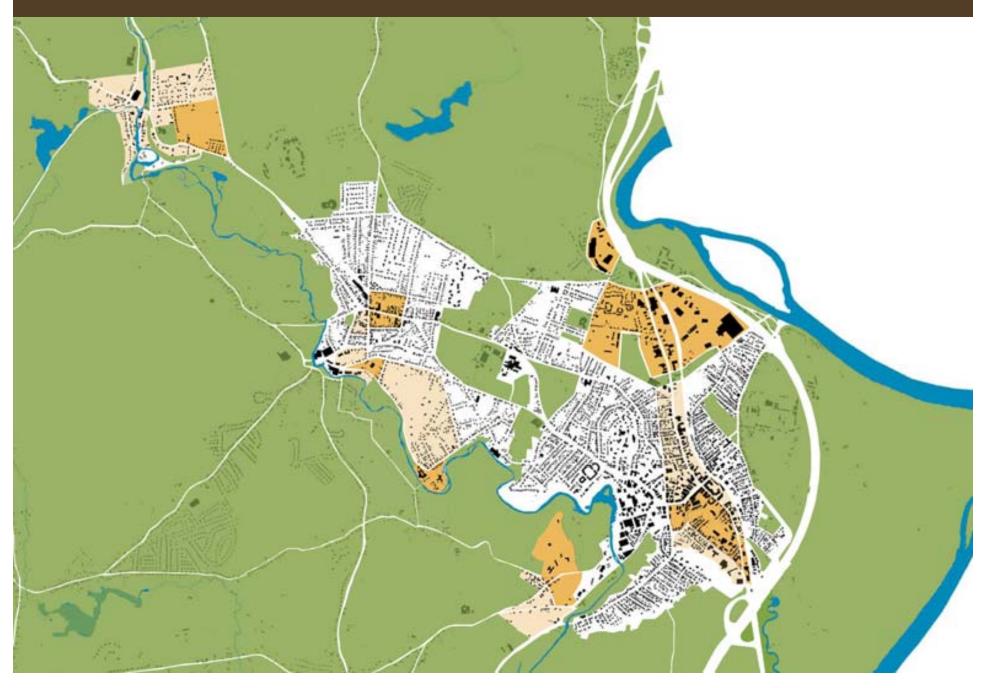
NORTHAMPTON IN CONTEXT



STRATEGY

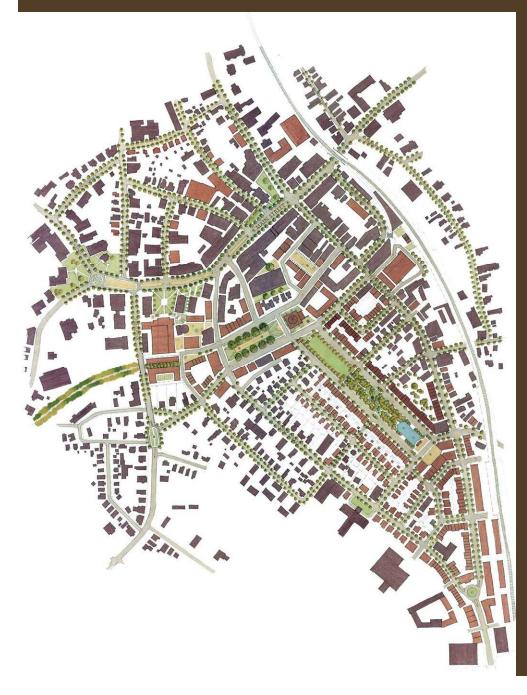




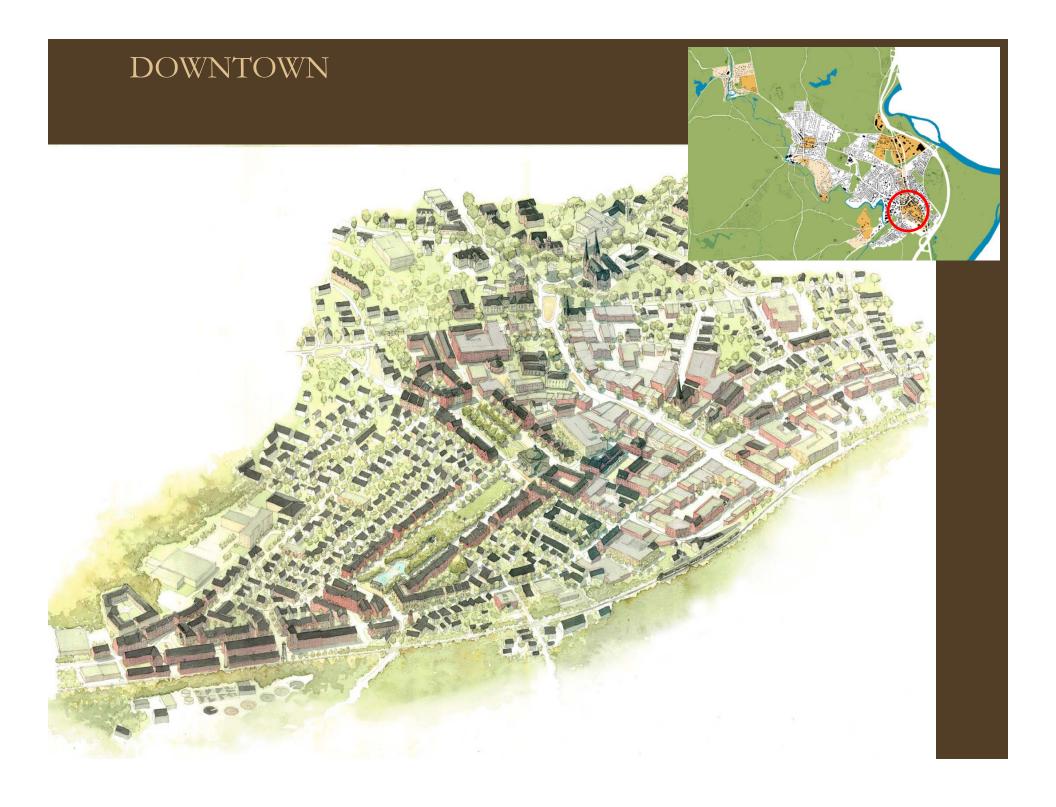


WHAT DOES SUSTAINABILITY LOOK LIKE?

Our design proposals

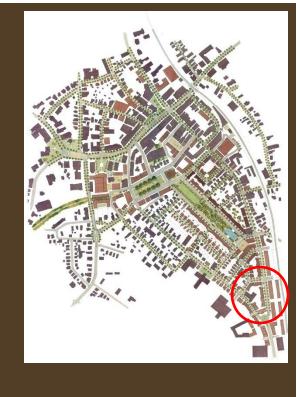






A new southern gateway



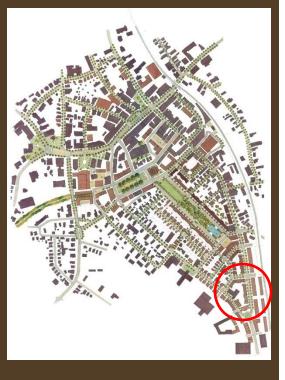




A new southern gateway







Mending lower King Street





Mending lower King Street







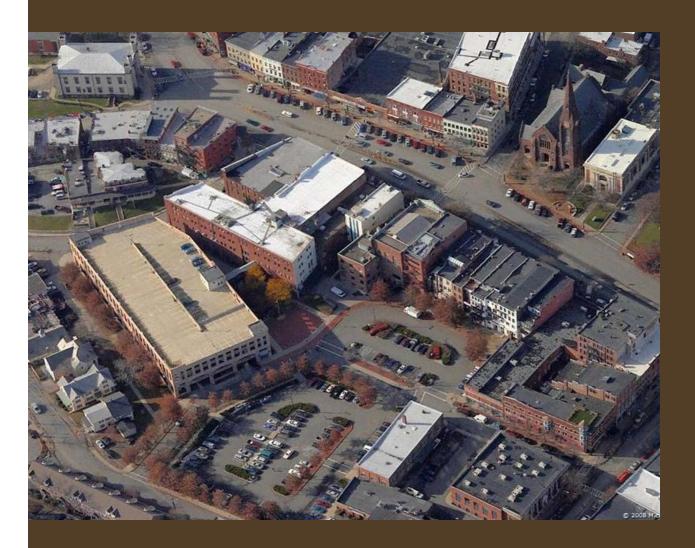
Main Street

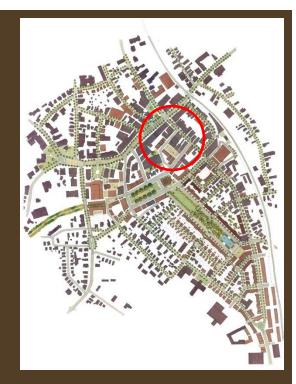




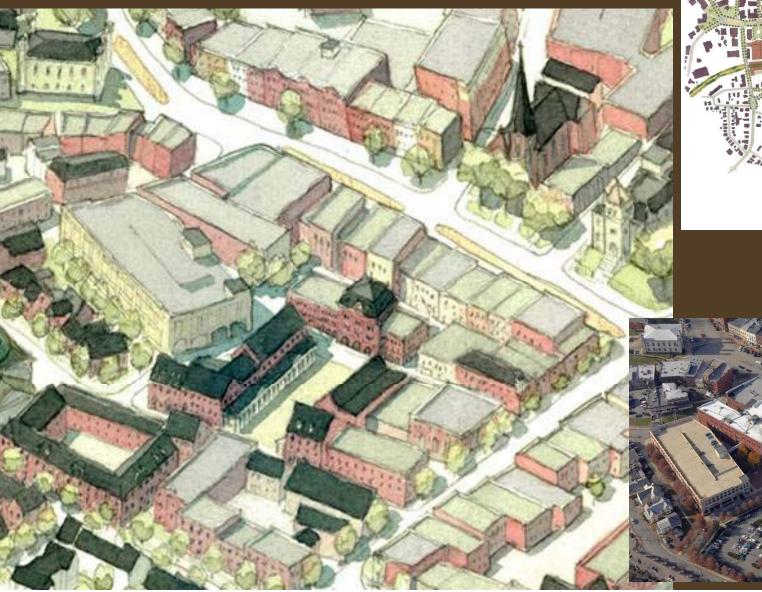


From parking lot to market square





From parking lot to market square



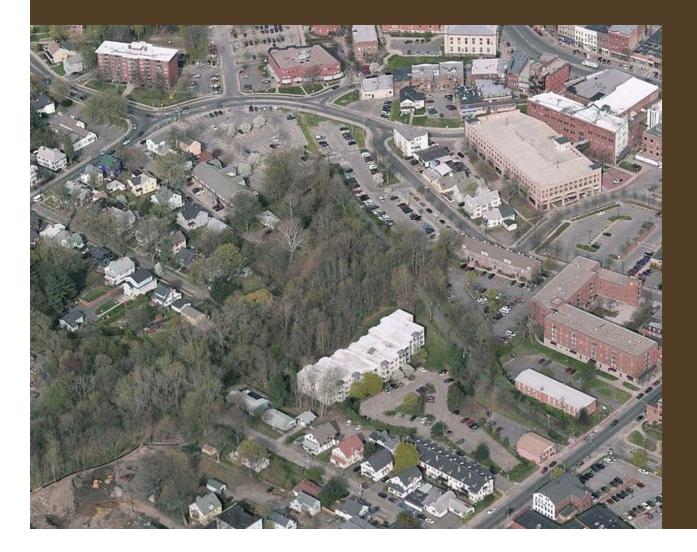


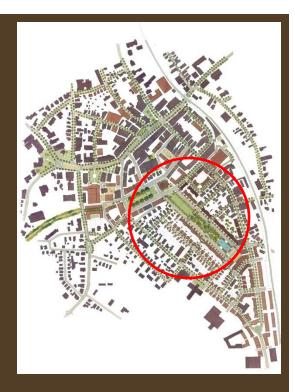






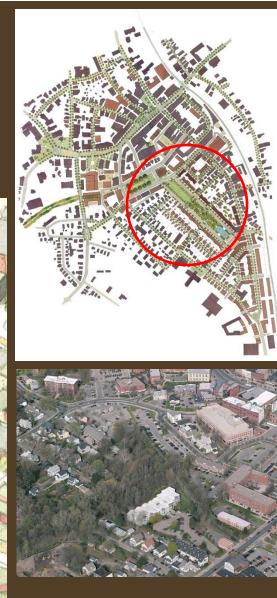
The old Mill River becomes Northampton's *Emerald Necklace*



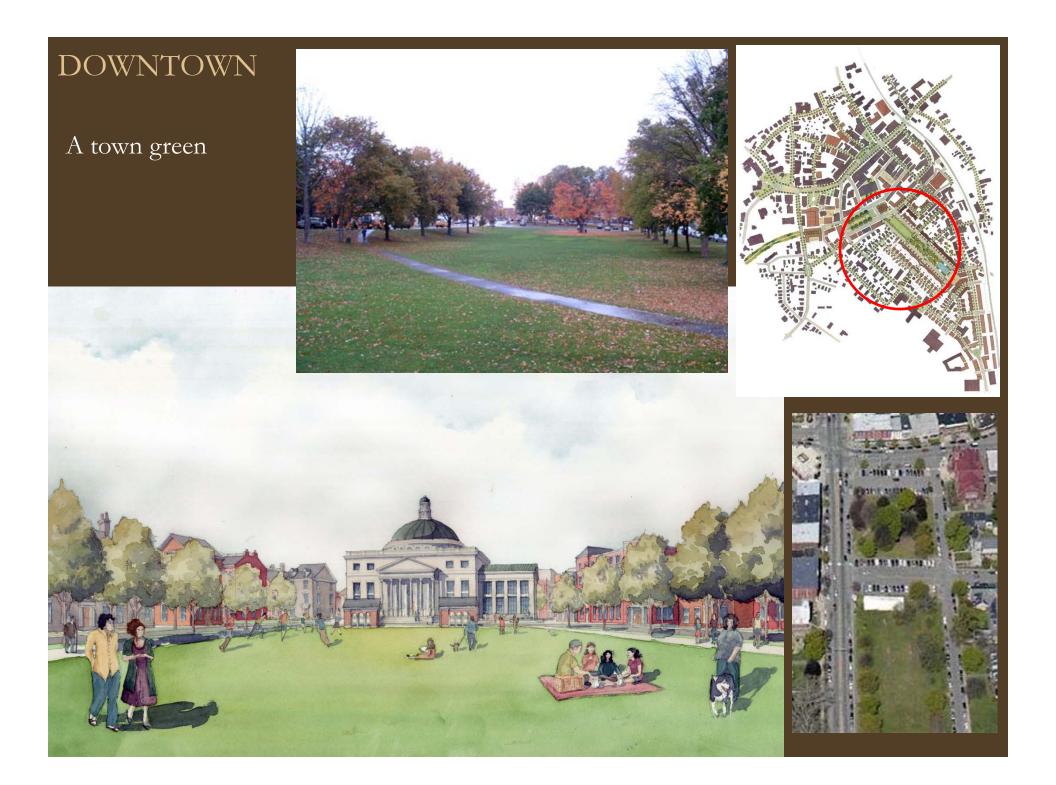


The old Mill River becomes Northampton's *Emerald Necklace*









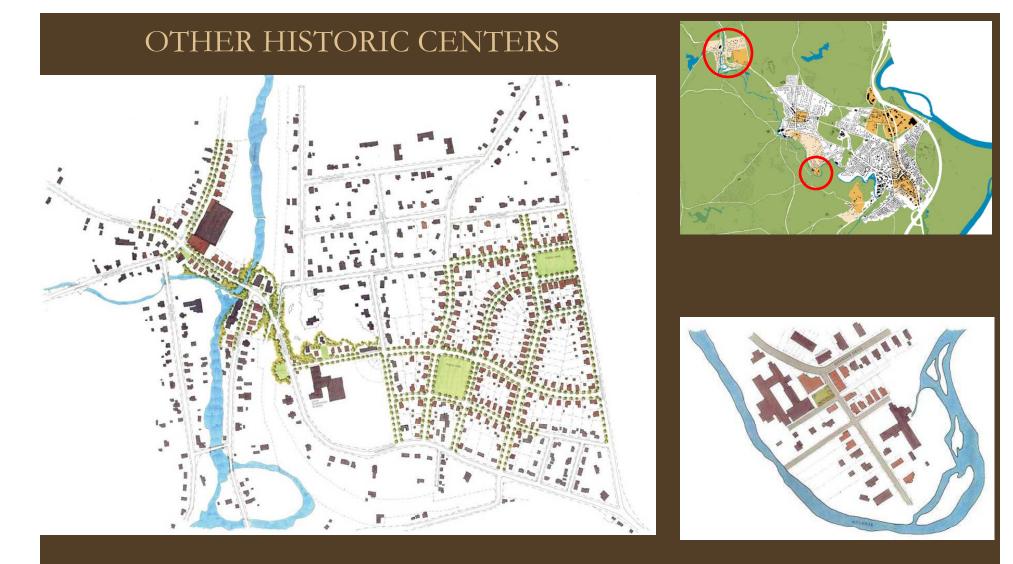
Public Transit







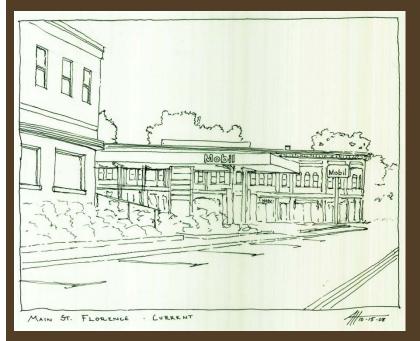


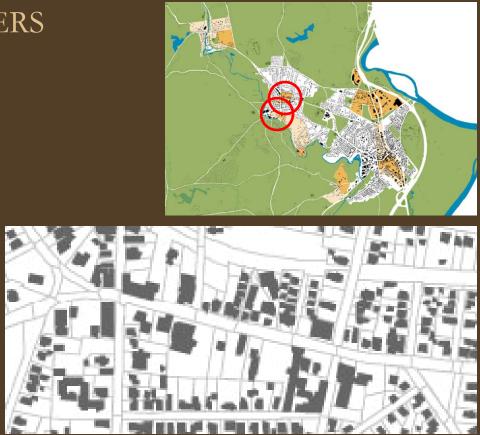


Leeds

Baystate

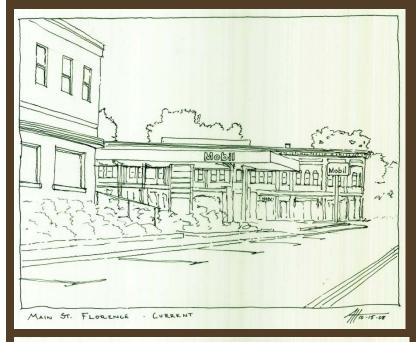
OTHER HISTORIC CENTERS

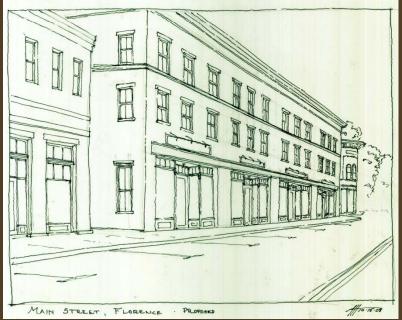


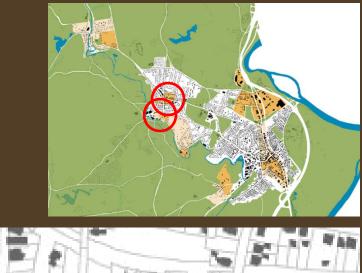


Florence

OTHER HISTORIC CENTERS

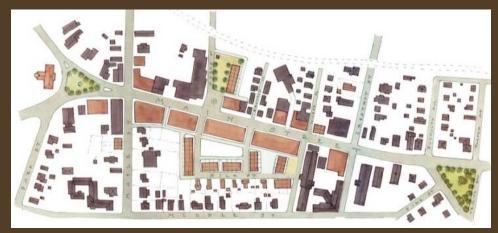








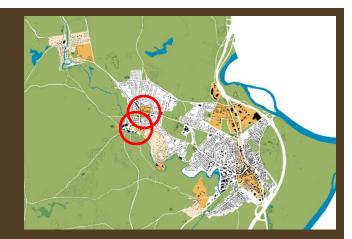
Florence

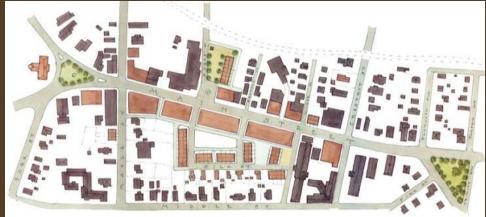


OTHER HISTORIC CENTERS

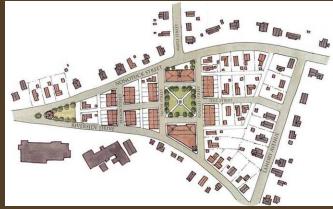






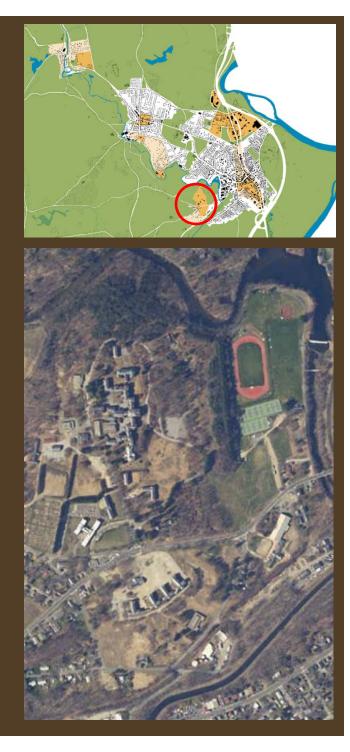


Florence



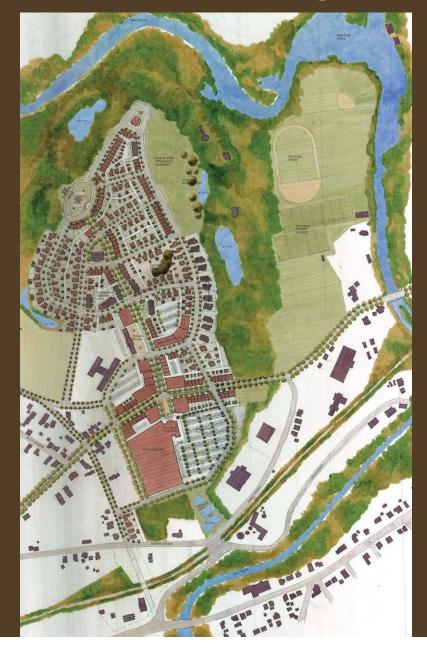
VILLAGE ON HOSPITAL HILL Current MassDevelopment plan:

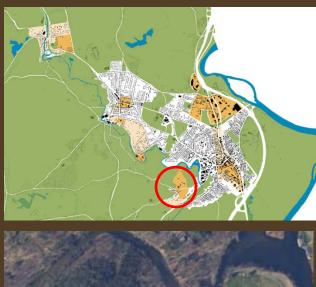




VILLAGE ON HOSPITAL HILL

Our short-term plan:

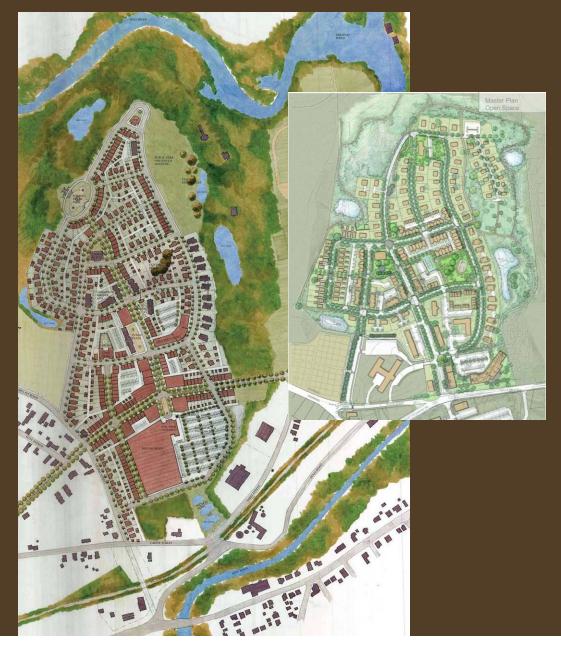






VILLAGE ON HOSPITAL HILL

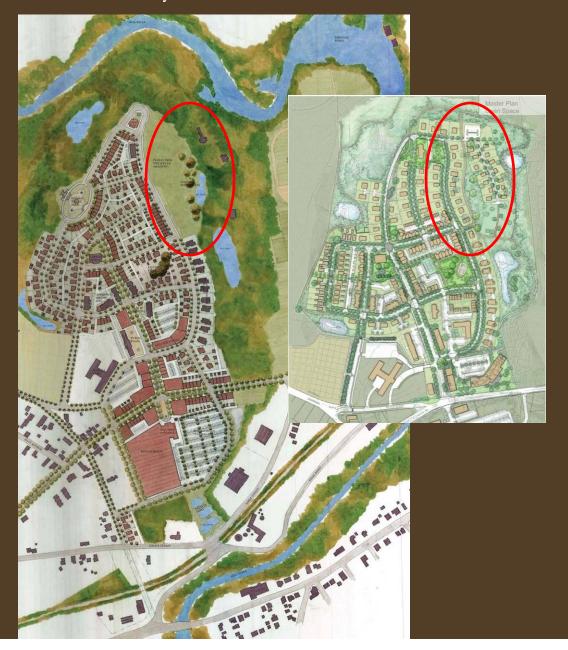
Our long-term plan:

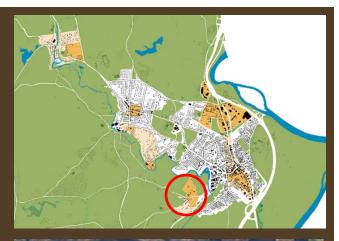






VILLAGE ON HOSPITAL HILL Density and Land Conservation







VILLAGE ON HOSPITAL HILL Making Village Hill a true Village



VILLAGE ON HOSPITAL HILLMaking Village Hill a true Village



VILLAGE ON HOSPITAL HILL Kollmorgen





VILLAGE ON HOSPITAL HILL

A memorial crescent: open space as part of the civic realm

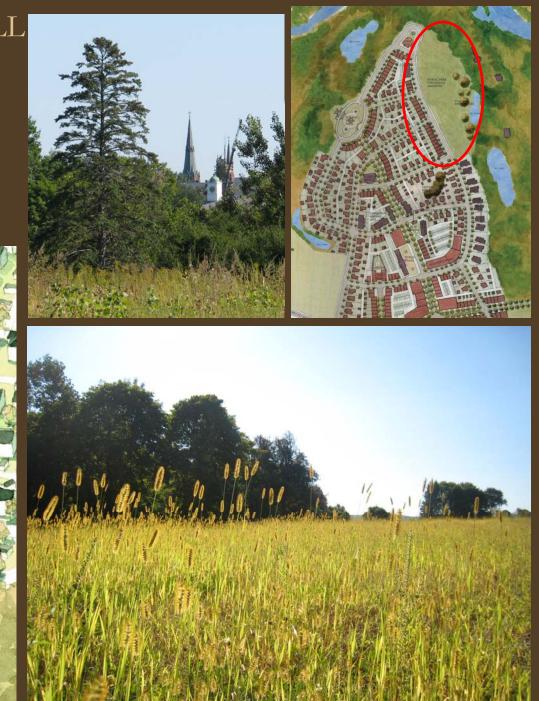




VILLAGE ON HOSPITAL HILL

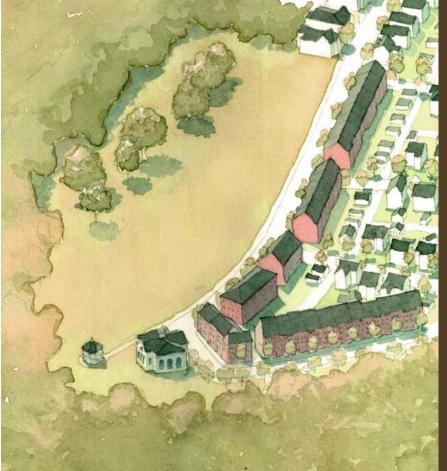
The meadow: Land conservation and public open space

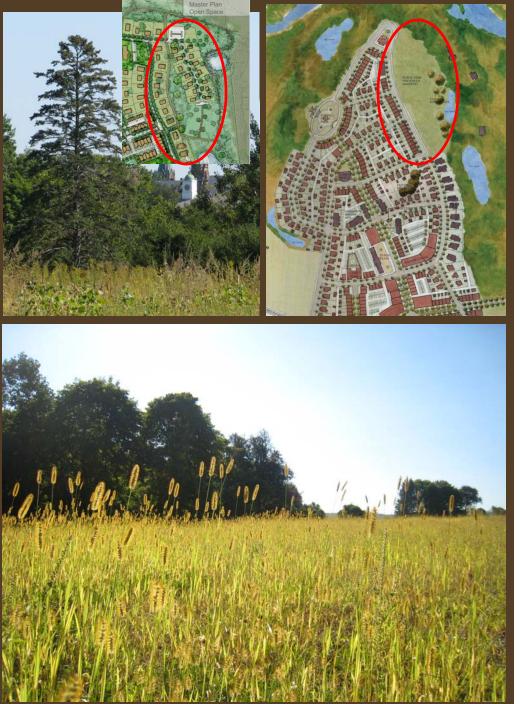




VILLAGE ON HOSPITAL HILL

The meadow: Land conservation and public open space











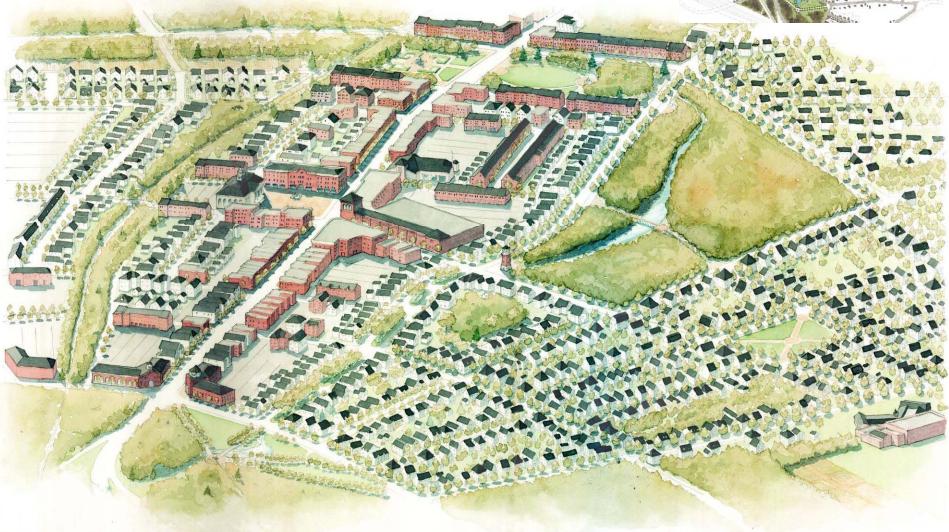






King Street: the next Main Street





Affordable Housing: An alternative to Hampshire Heights



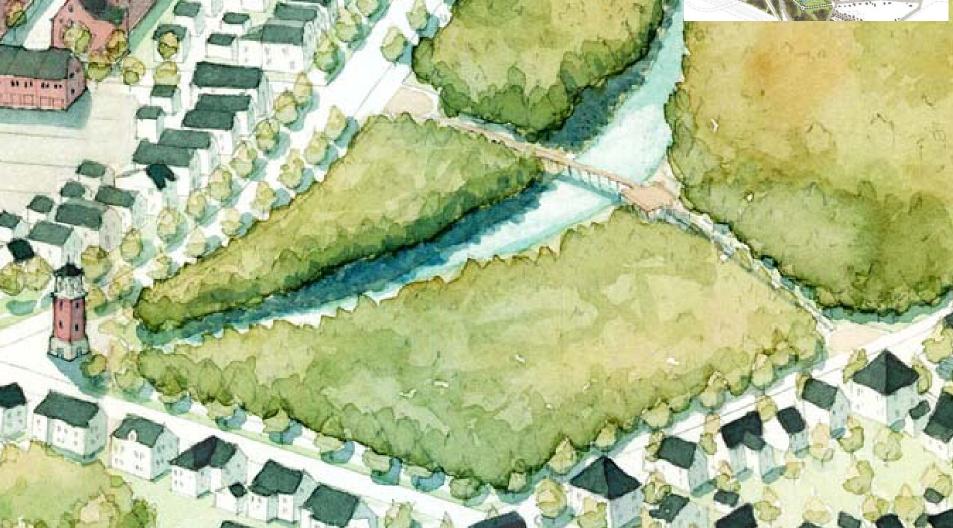


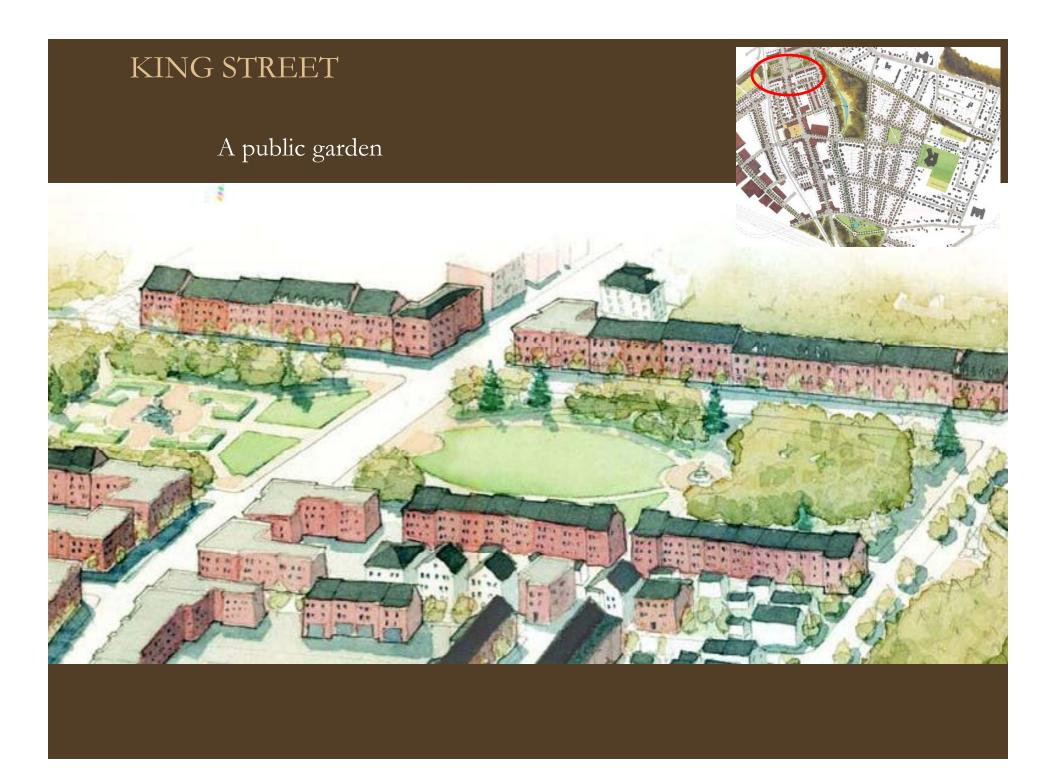




Wilderness within walking distance





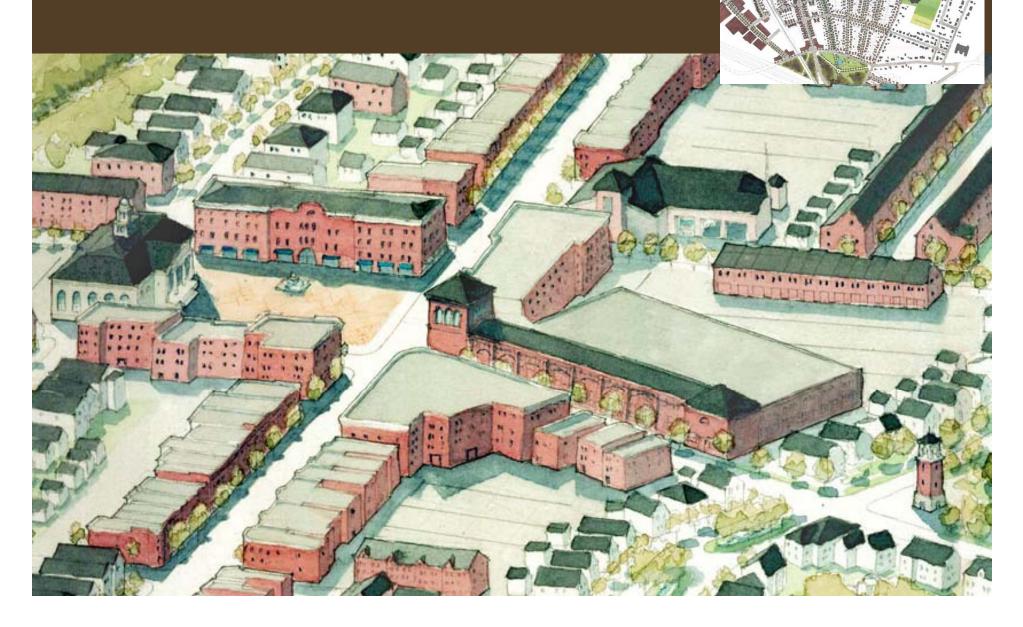


Urban Agriculture

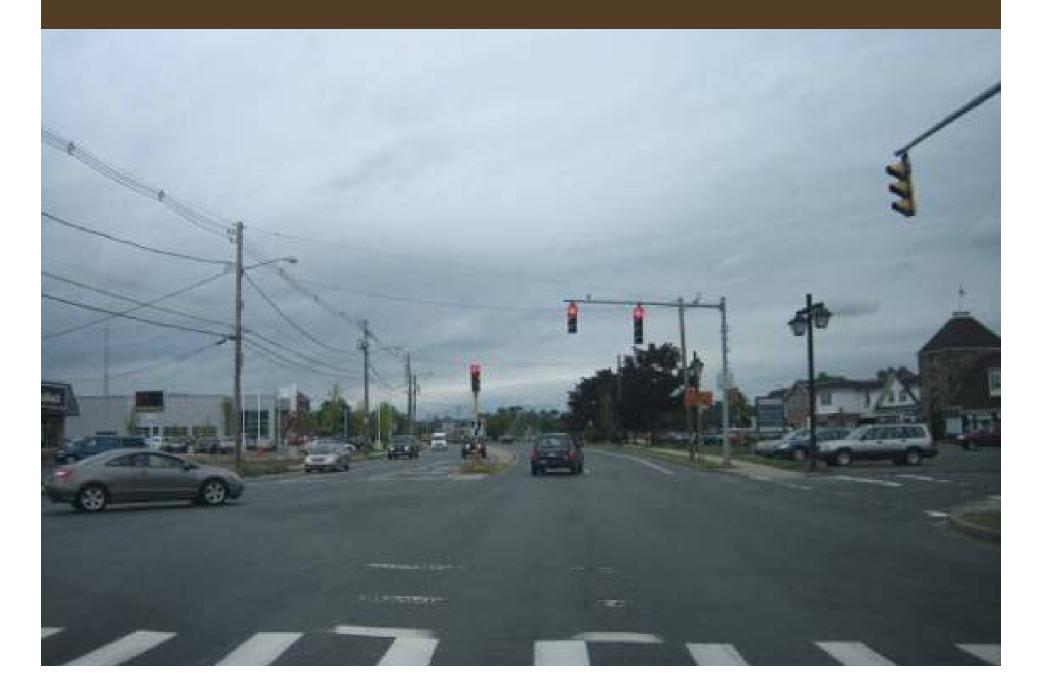




Civic plaza; civic supermarket



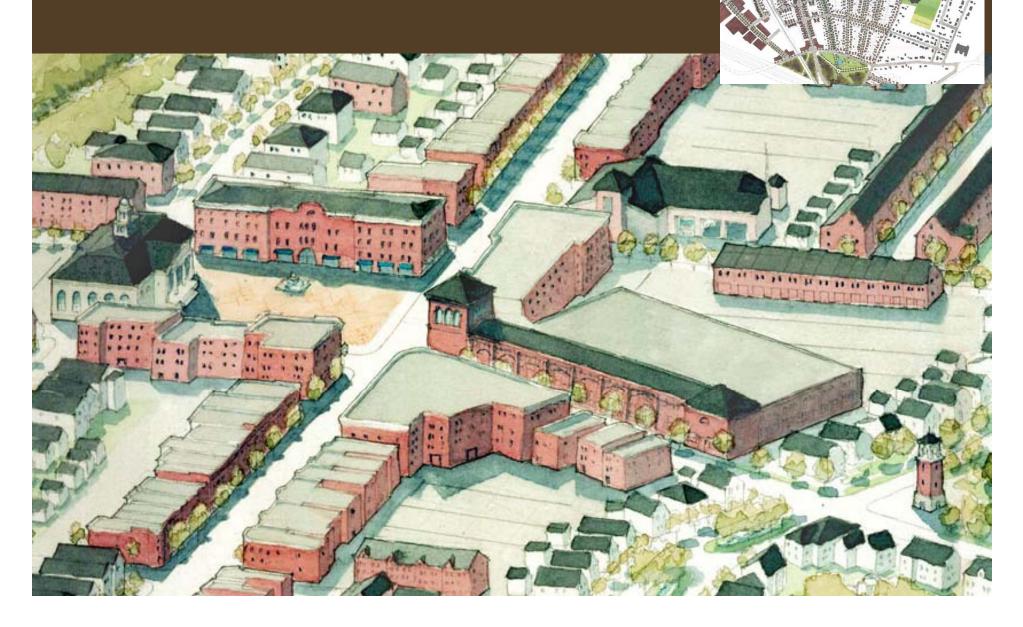
King Street today



A vision King Street



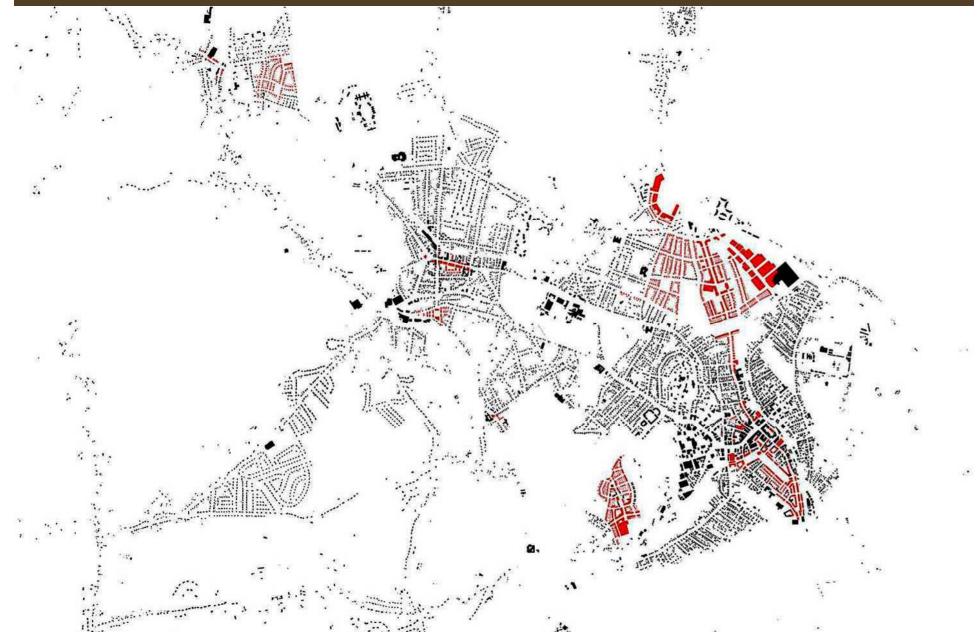
Civic plaza; civic supermarket





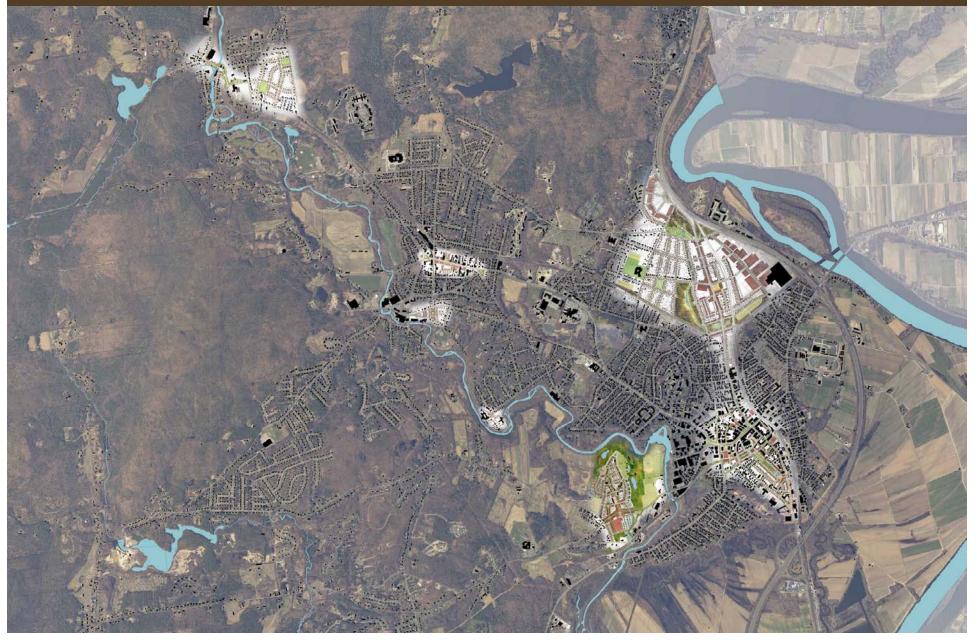
POSSIBLE FUTURE GROWTH POPULATION: 32,000-36,000

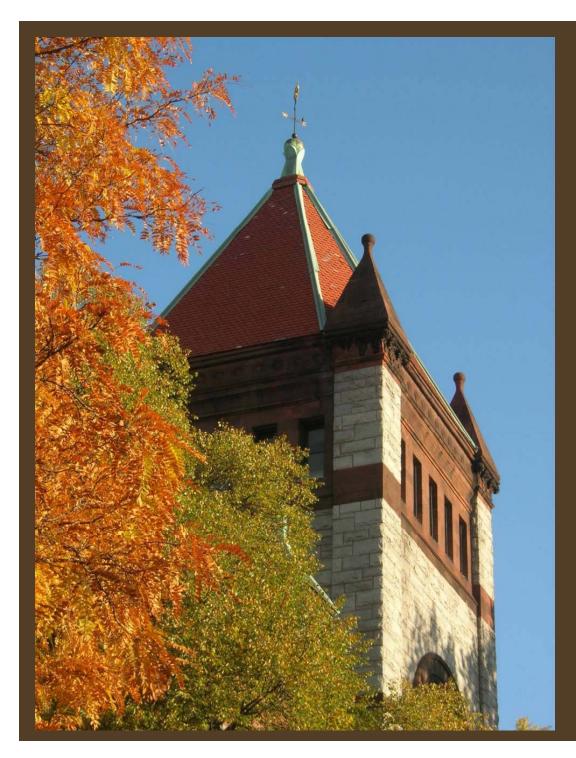












IMPLEMENTING ESN

• LEED-ND standards should be required for all new developments.

• City should adopt a form-based zoning code.

• Consideration of public space should be integral to planning process for new development, which could be overseen by a Town Architect.

• City should actively pursue desirable development, especially on city-owned land, rather than only reacting to negative development.

• City should seek coordination and cooperation among local banks, local institutions, local developers and local builders who understand the intent of *Envisioning Sustainable Northampton*.

• The city can take advantage of the time afforded by the current economic climate, to plan for future development.

THE VISION





LEEDS







KING ST. FLORENCE

BAYSTATE

VILLAGE ON HOSPITAL HILL

DOWNTOW