Merrimack Valley Planning Commission
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dcr Massachusetts

Merrimack Valley
Multi-Hazard Mitigation Plan
2013-2018

LAWRENCE, MA
Composite Hazards

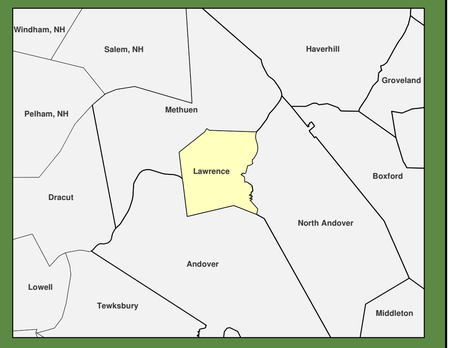
Methuen

North Andover

Andover

Legend

- Repetitive Loss Sites
- Very Low (1 Hazard)
- Low (2 Hazards)
- Moderate (3 Hazards)
- High (4 Hazards)
- Town Boundary
- Hydrographic Features
- Streams
- Rail Lines
- Interstate
- Major Roads
- Local Roads



Critical Facilities and Infrastructure

- City/Town Offices
- Courts
- Day Care Facilities
- E911 Dispatch Center
- Assisted Living/Elderly Housing
- Electric Power Plant
- Emergency Operations
- Emergency Shelter
- Fire Station
- Hospital/Clinic
- Library
- Nursing Homes/Residential Care
- Police Station
- Power Substation
- Public Works Garage
- School/College
- Sewage Pumping Station
- Solid Waste Transfer
- Telephone/Communication/Cell
- Transportation Hub (Air)
- Transportation Hub (Bus)
- Transportation Hub (Train)
- Wastewater Treatment Plant
- Water Supply/Pumping/Storage
- Bridges
- Dams
- Evacuation Routes

Preparation of this Plan was funded by grant # HMGP 1895-45 from the Massachusetts Emergency Management Agency (MEMA) in cooperation with the Department of Homeland Security-Federal Emergency Management Agency (FEMA). Matching funds were provided by MVPC.

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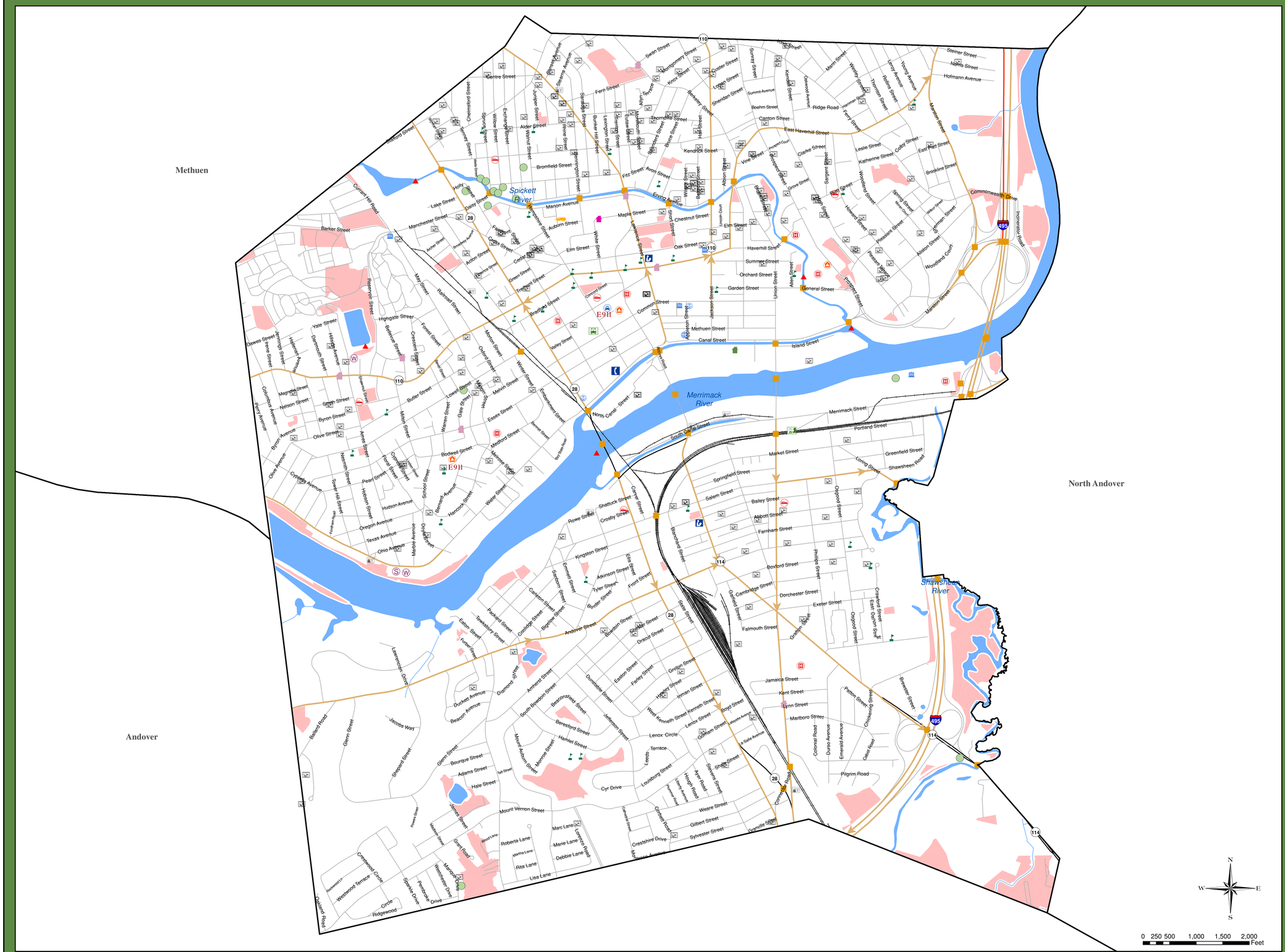
Merrimack Valley
Multi-Hazard Mitigation Plan

2013-2018

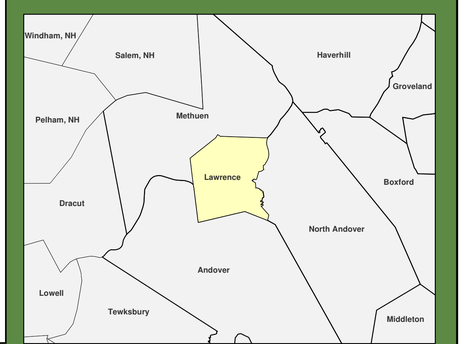
LAWRENCE, MA
Potential Development



Legend

- Repetitive Loss Sites
- Town Boundary
- Hydrographic Features
- Streams
- Rail Lines
- Interstate
- Major Roads
- Local Roads
- Potential Development *

* Potential Development based on 2001 Buildout Analysis.



Critical Facilities and Infrastructure

- City/Town Offices
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Merrimack Valley
Multi-Hazard Mitigation Plan

2013-2018

LAWRENCE, MA
Earthquakes and Landslides

Methuen

North Andover

Andover

Spickett River

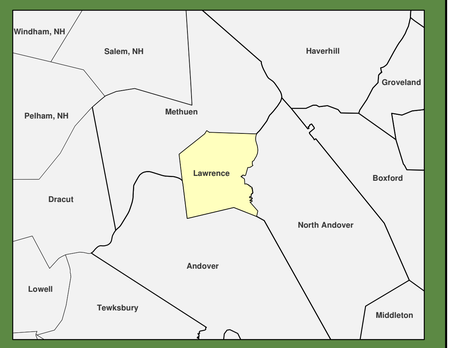
Merrimack River

Shawsheen River

E911

Legend

- Repetitive Loss Sites
- Town Boundary
- Hydrographic Features
- Streams
- Low Incidence
- High Susceptibility
- Rail Lines
- Interstate
- Major Roads
- Local Roads
- Fault Lines
- Earthquake Locations



N W E S

0 250 500 1,000 1,500 2,000 Feet

Critical Facilities and Infrastructure

- City/Town Offices
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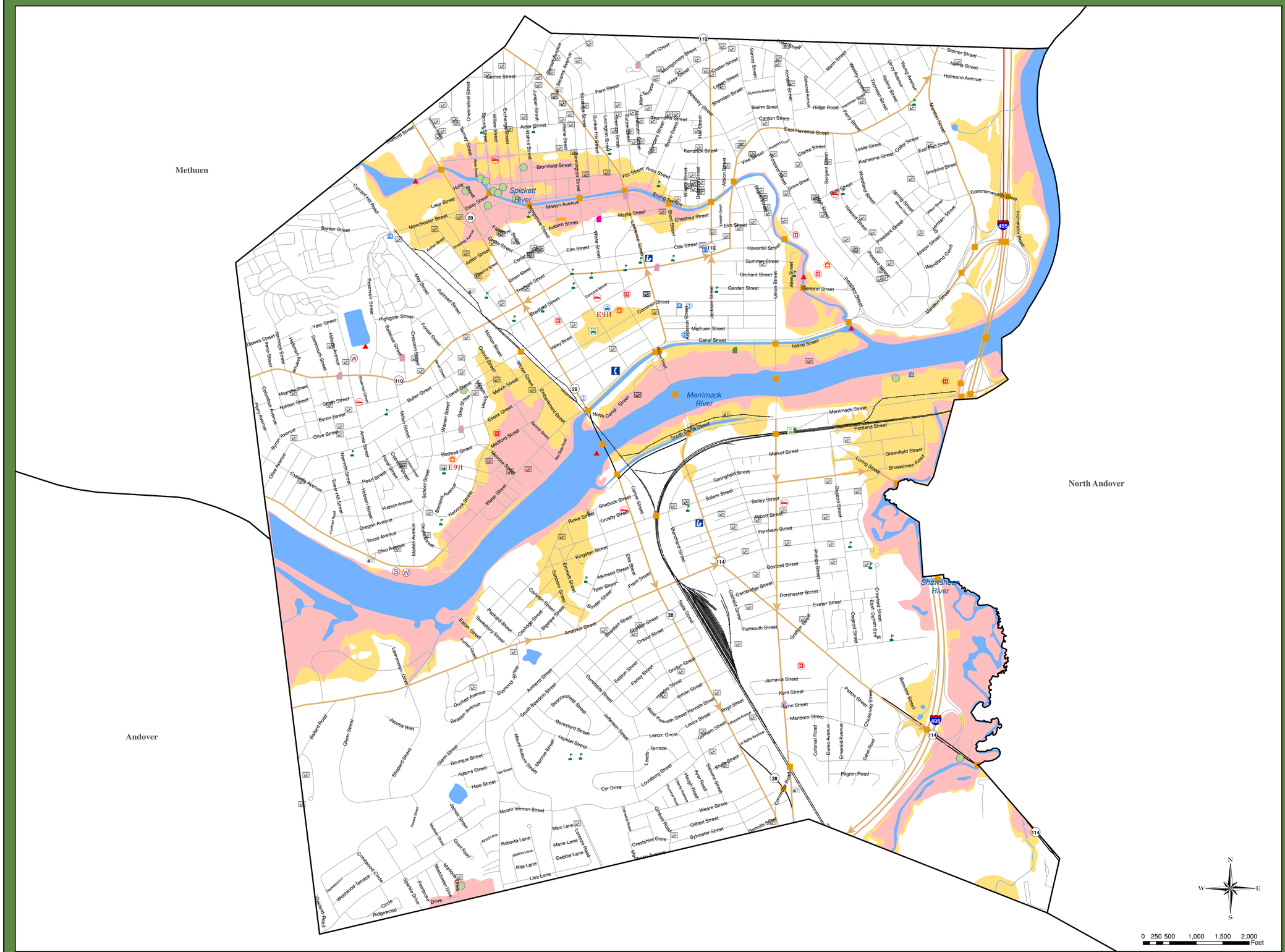
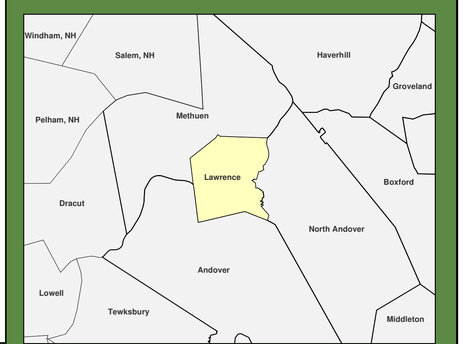
Merrimack Valley
Multi-Hazard Mitigation Plan
2013-2018

LAWRENCE, MA
Flood Zones



Legend

- Repetitive Loss Sites
- Town Boundary
- Hydrographic Features
- Streams
- Rail Lines
- Interstate
- Major Roads
- Local Roads
- 100-Year Floodplain
- 500-Year Floodplain



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Merrimack Valley
Multi-Hazard Mitigation Plan

2013-2018

LAWRENCE, MA
Hurricanes and Tornadoes

Methuen

Andover

North Andover

Spickett River

Merrimack River

Shawsheen River

E911

Legend

- Repetitive Loss Sites
- Town Boundary
- Hydrographic Features
- Streams
- Rail Lines
- Interstate
- Major Roads
- Local Roads
- Hurricane Surge
- Tornado Locations

100 Year Wind Speeds

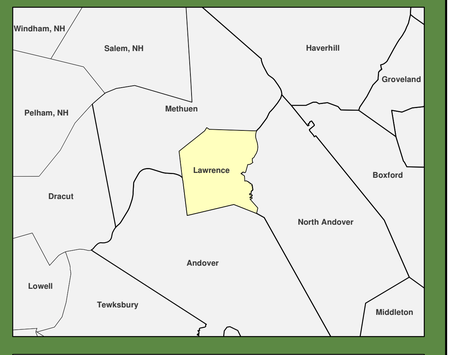
- 110 mph

Storm Tracks

- Hurricane (Cat. 3)
- Hurricane (Cat. 2)
- Hurricane (Cat. 1)
- Tropical Storm
- Tropical Depression

N
W E
S

0 250 500 1,000 1,500 2,000 Feet



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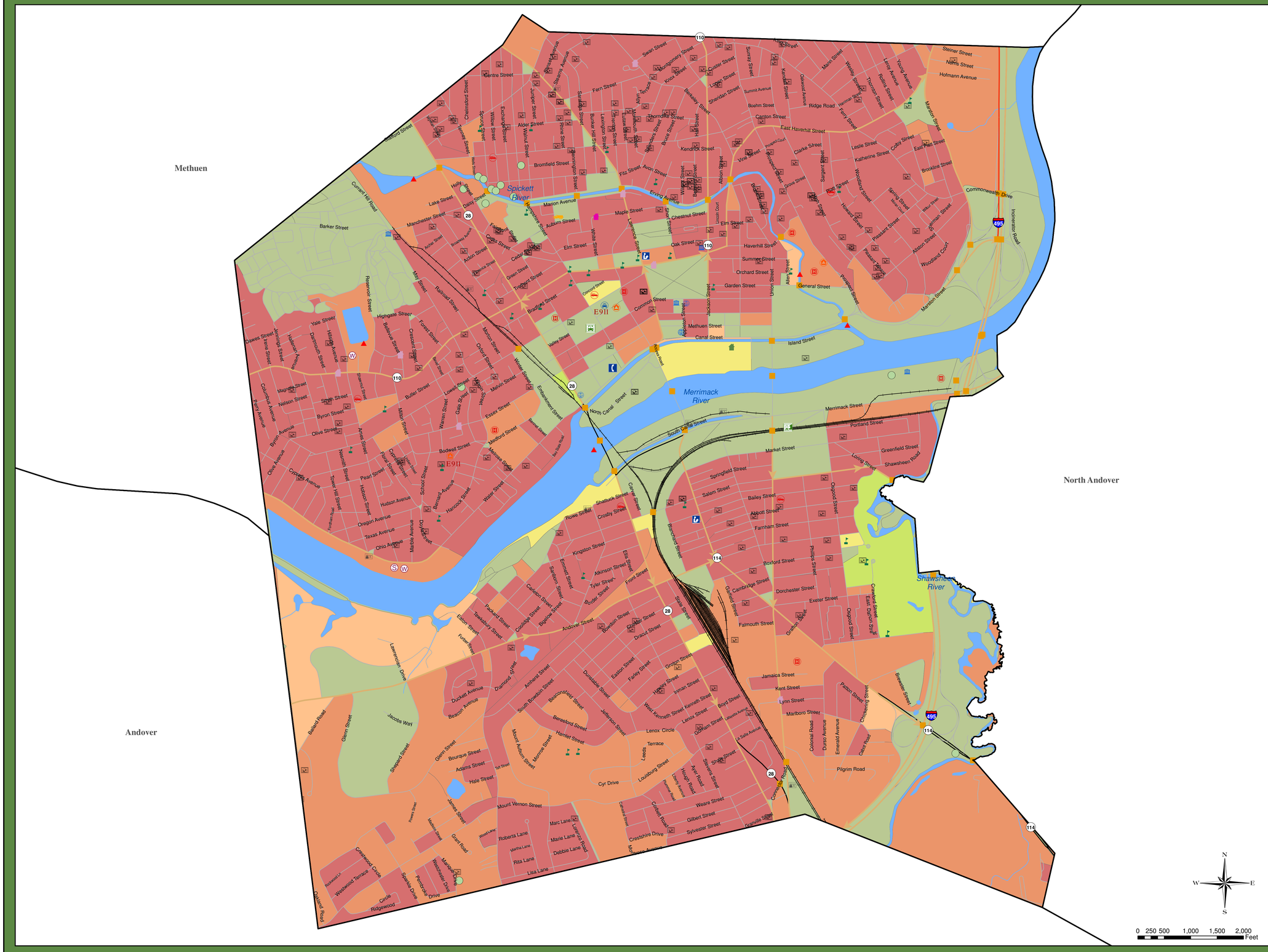
Multi-Hazard Mitigation Plan

2013-2018

LAWRENCE, MA
Population Density

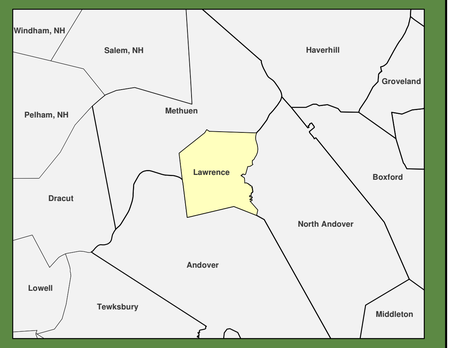


Legend

- Repetitive Loss Sites
- Town Boundary
- Hydrographic Features
- Streams
- Rail Lines
- Interstate
- Major Roads
- Local Roads

Population Density

- 0 - 100/ Sq. Mi.
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 5000
- > 5000/ Sq. Mi.



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