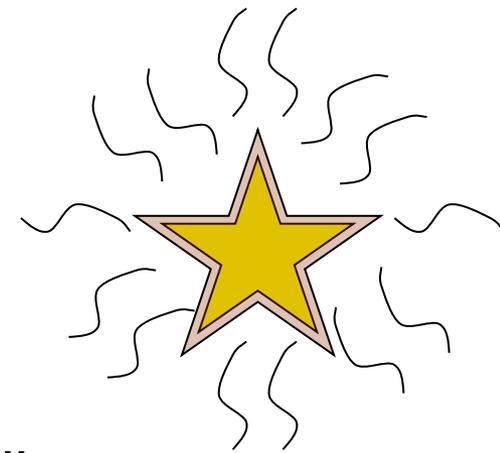
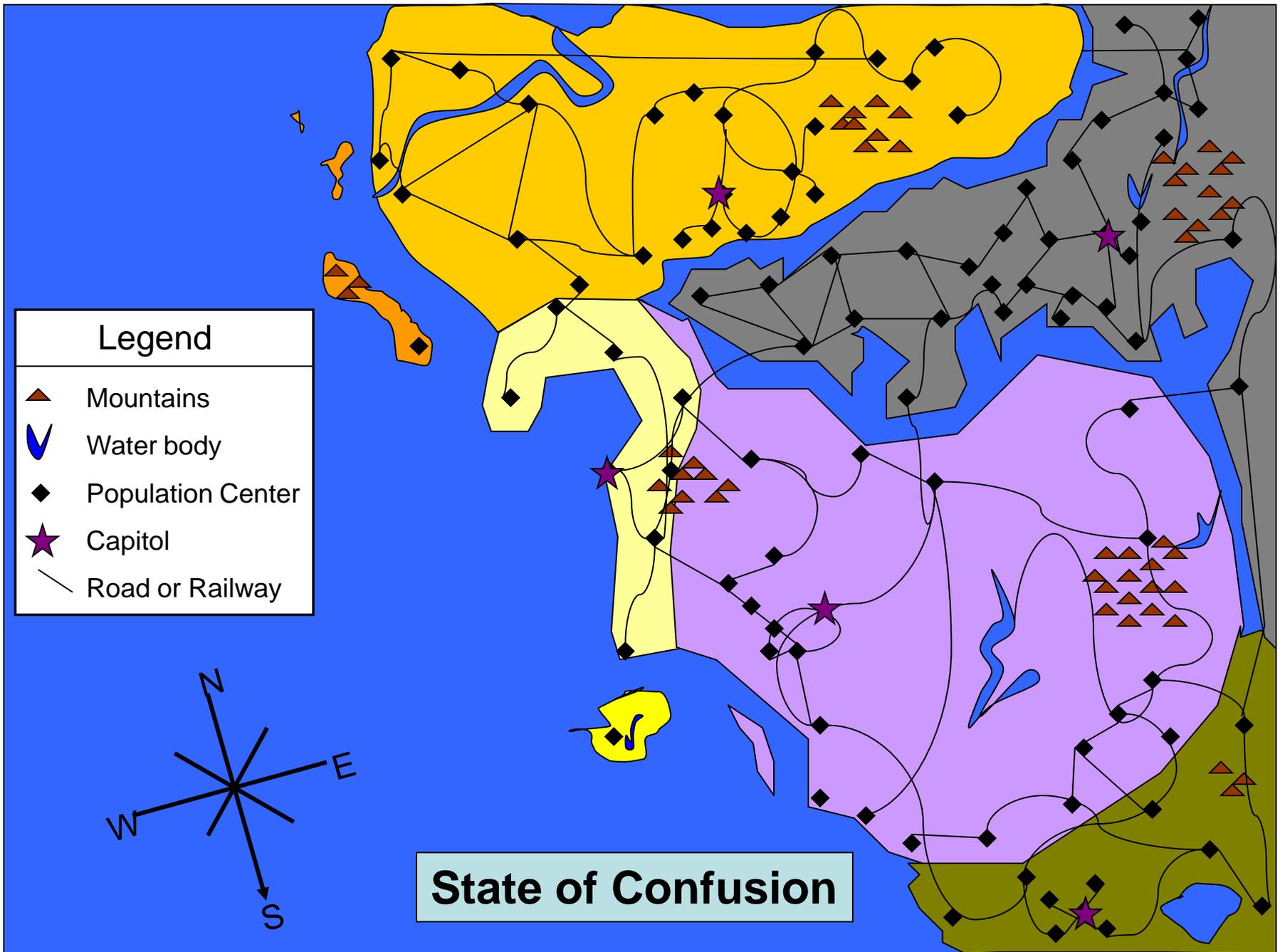


Exercise Fried Starfish



- Objectives:
 - Evaluate special considerations responding to an Emergency Response Laboratory
 - Determine additional actions needed to support responder safety pre, during, and post event
 - Determine appropriate samples for analysis
 - Evaluate referral and/or coordination needs within jurisdiction
 - Determine different mitigation tactics and/or requirements within the fixed facility

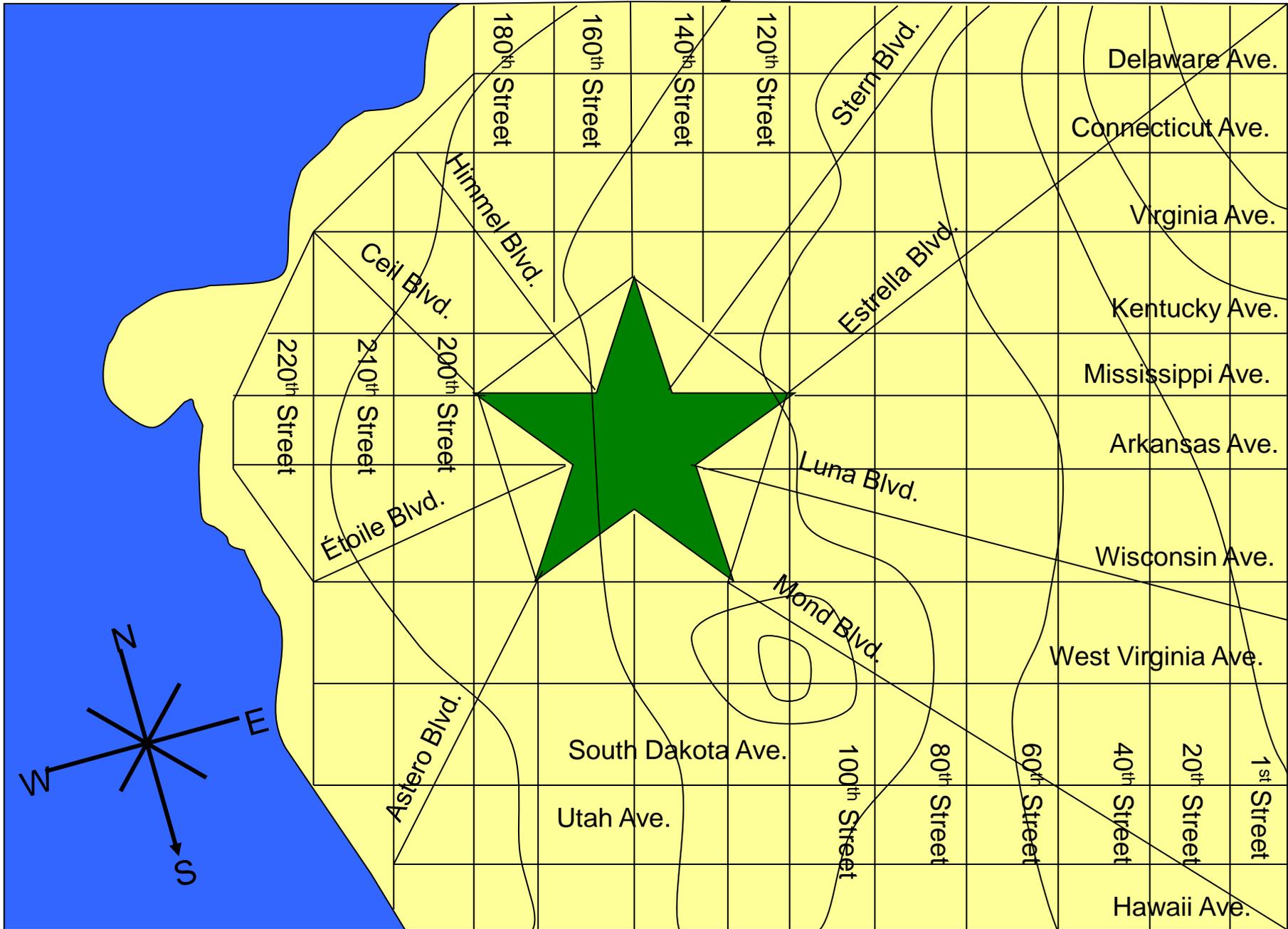


Star City, CF*

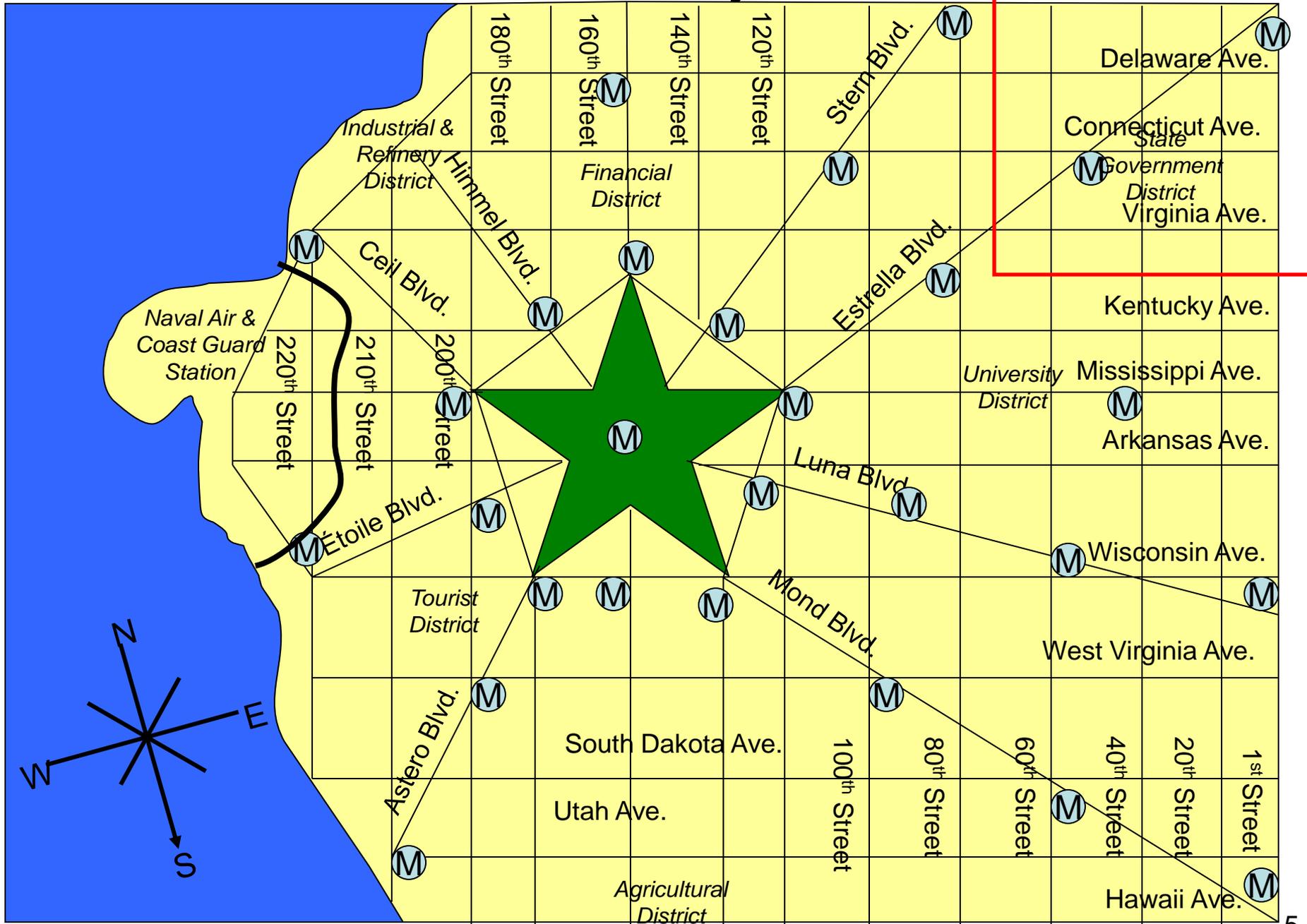


- “Home of the Fried Starfish”
- Population: 450,000 (100,000+ during tourist season)
- 168 square miles
- Fifteen hospitals, seventeen major universities, multi-tiered medical system on the district level
- State Capital of Confusion
 - Houses multiple state, county, and city governmental agencies
- Multiple freight and passenger railways throughout, extensively connections to national and local services
- Bustling historical district draws national and international visitors
- Thriving military and commercial port
- Large refinery complex with water, highway, and rail transit systems
- Dwindling agricultural space on southern border

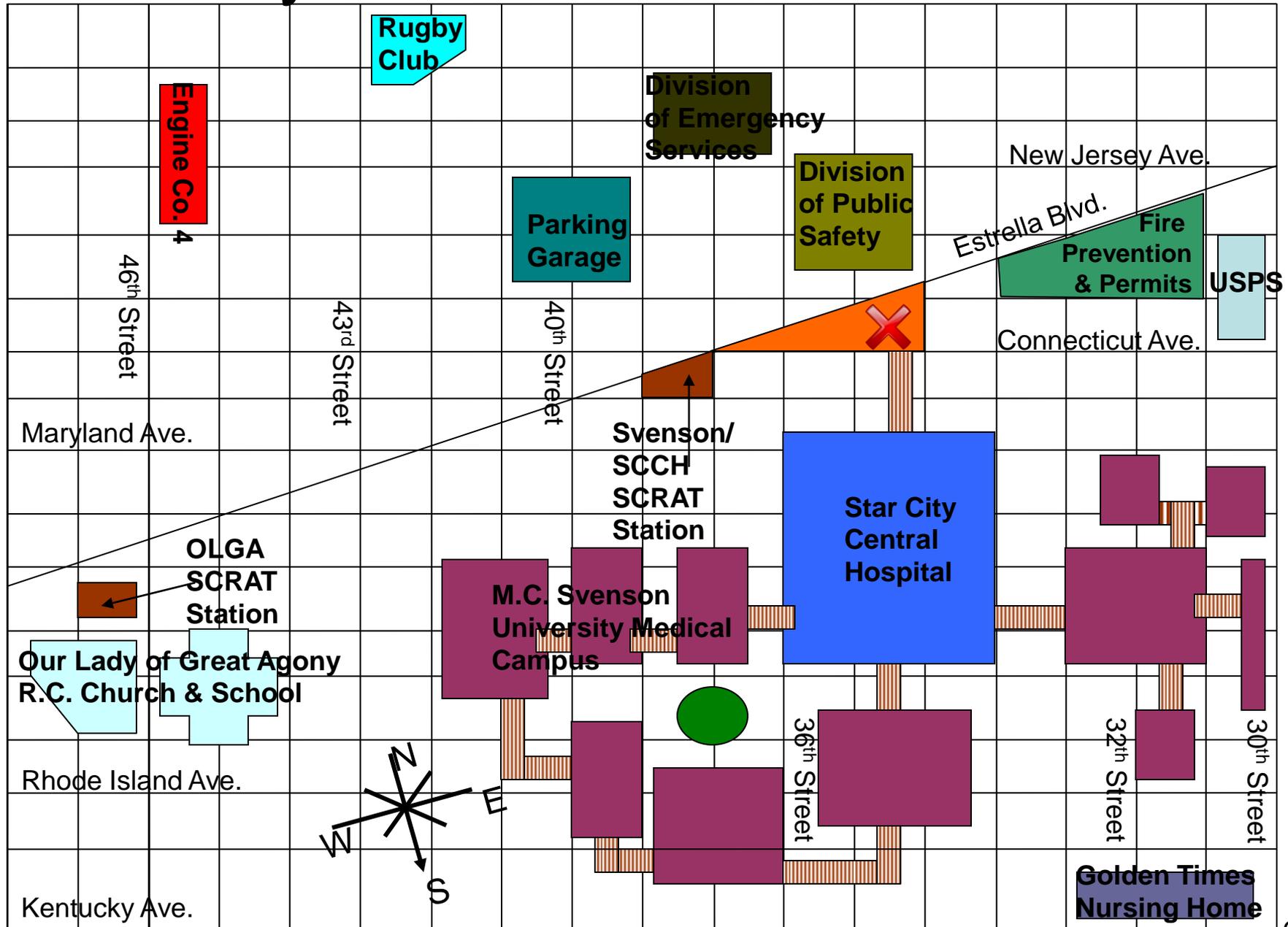
Star City



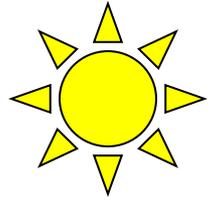
Star City



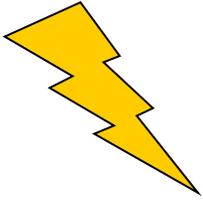
Star City Health Education Section



Incident Scenario



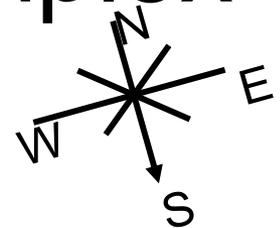
- Thursday 19 May, 12:30 PM
- 72 degrees, 75% RH, 85% sun, light southerly wind (10 mph), occasional gusts to 25 mph
- Weather forecast calls for evening thunderstorms developing from the west
- Viking Week: coastal district events throughout the week
- Increased public transit Star City Rapid Air Transport (SCRAT)
- Political rally at 3PM City Hall at the corner of 150th St. and Stern Ave. includes Governor of Confusion, multiple State Senators, and district State Representatives
- Tours and open houses in the Health Education district, commemorating 350th anniversary of initial settlement
- Cockroaches found in Montgomery Franklin State Complex requires fumigation



Dispatch

- Chemical leak – 3501 E. Connecticut Ave. (multi-story commercial building) – Montgomery Franklin State Building
 - 911 receives call shortly after lunch for accidental release of a chemical in North Tower
 - Minutes later multiple calls report a mist venting from the roof
 - 1235 72F (HI = 72F), 75% RH, 85% sun, wind from NNW 15 mph, gusts to 25 mph, billowing clouds on the horizon

Montgomery Franklin State Complex



East Tower 2: (~750 people)

- Department of Taxes and Revenue (Floors 1 – 4)
- Department of the Environment (Floors 5 – 10)
- Department of the Interior (Floors 11 – 15)

North Tower (~200 people)

- Support Services (Floors 1 – 4)
- Laboratory and Clinics (Floors 2 – 4)
- Medical Examiner’s Office (Basement)

West Tower (~600 people)

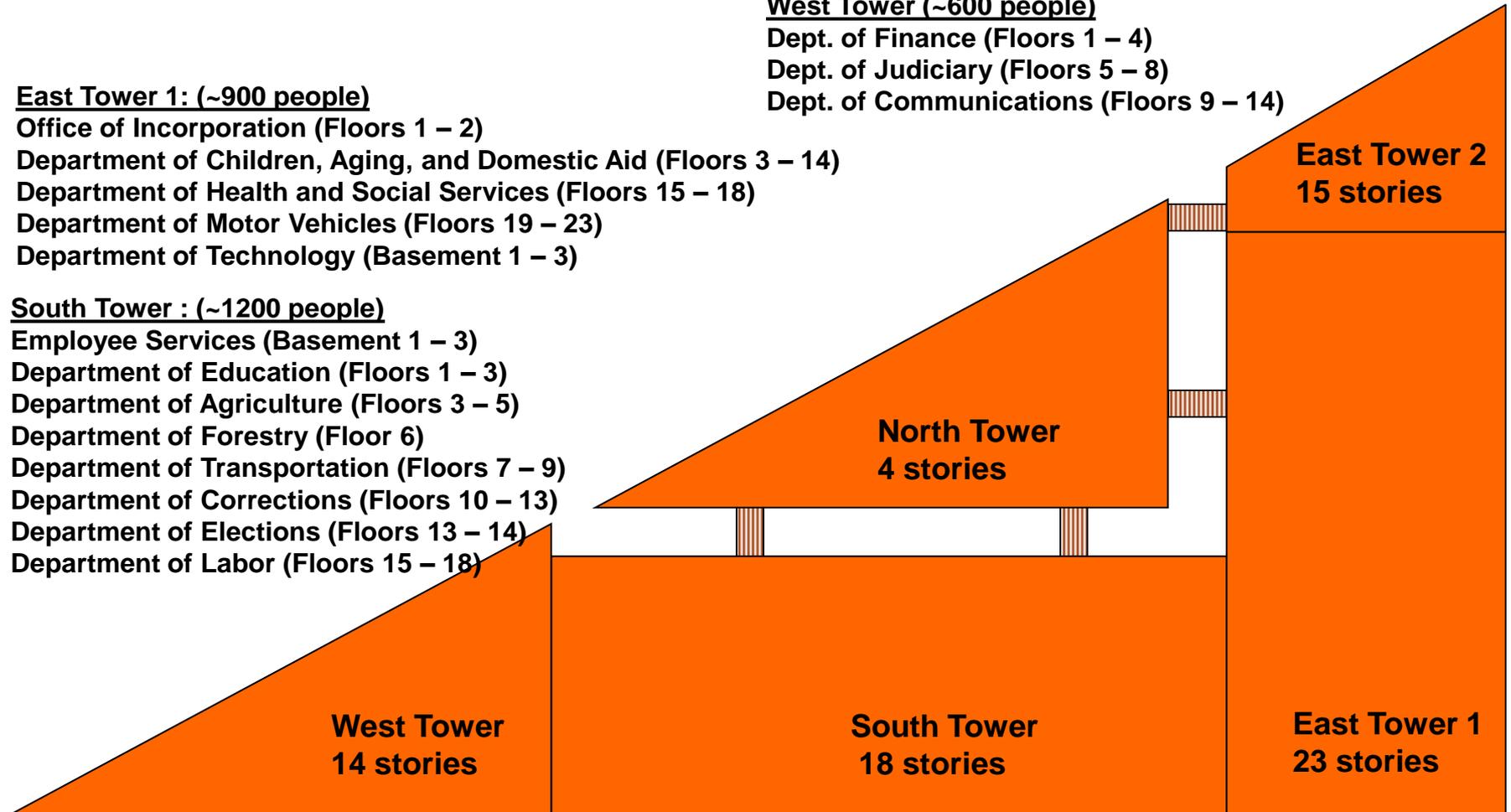
- Dept. of Finance (Floors 1 – 4)
- Dept. of Judiciary (Floors 5 – 8)
- Dept. of Communications (Floors 9 – 14)

East Tower 1: (~900 people)

- Office of Incorporation (Floors 1 – 2)
- Department of Children, Aging, and Domestic Aid (Floors 3 – 14)
- Department of Health and Social Services (Floors 15 – 18)
- Department of Motor Vehicles (Floors 19 – 23)
- Department of Technology (Basement 1 – 3)

South Tower : (~1200 people)

- Employee Services (Basement 1 – 3)
- Department of Education (Floors 1 – 3)
- Department of Agriculture (Floors 3 – 5)
- Department of Forestry (Floor 6)
- Department of Transportation (Floors 7 – 9)
- Department of Corrections (Floors 10 – 13)
- Department of Elections (Floors 13 – 14)
- Department of Labor (Floors 15 – 18)



North Tower (Basement)

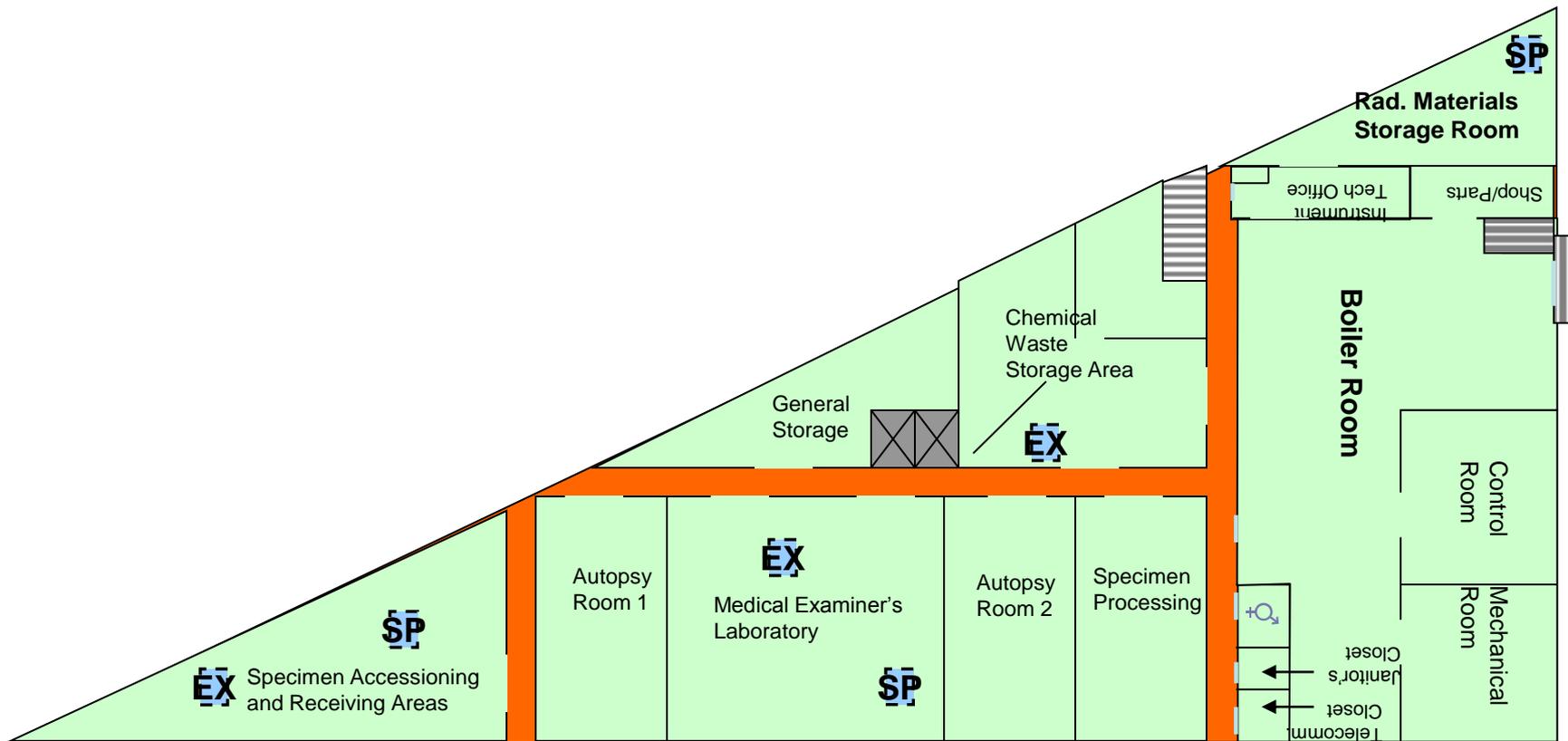
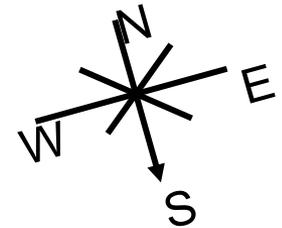


Stairs

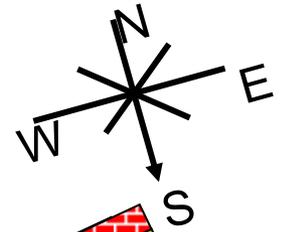


Elevator

Door



North Tower (1st Floor)



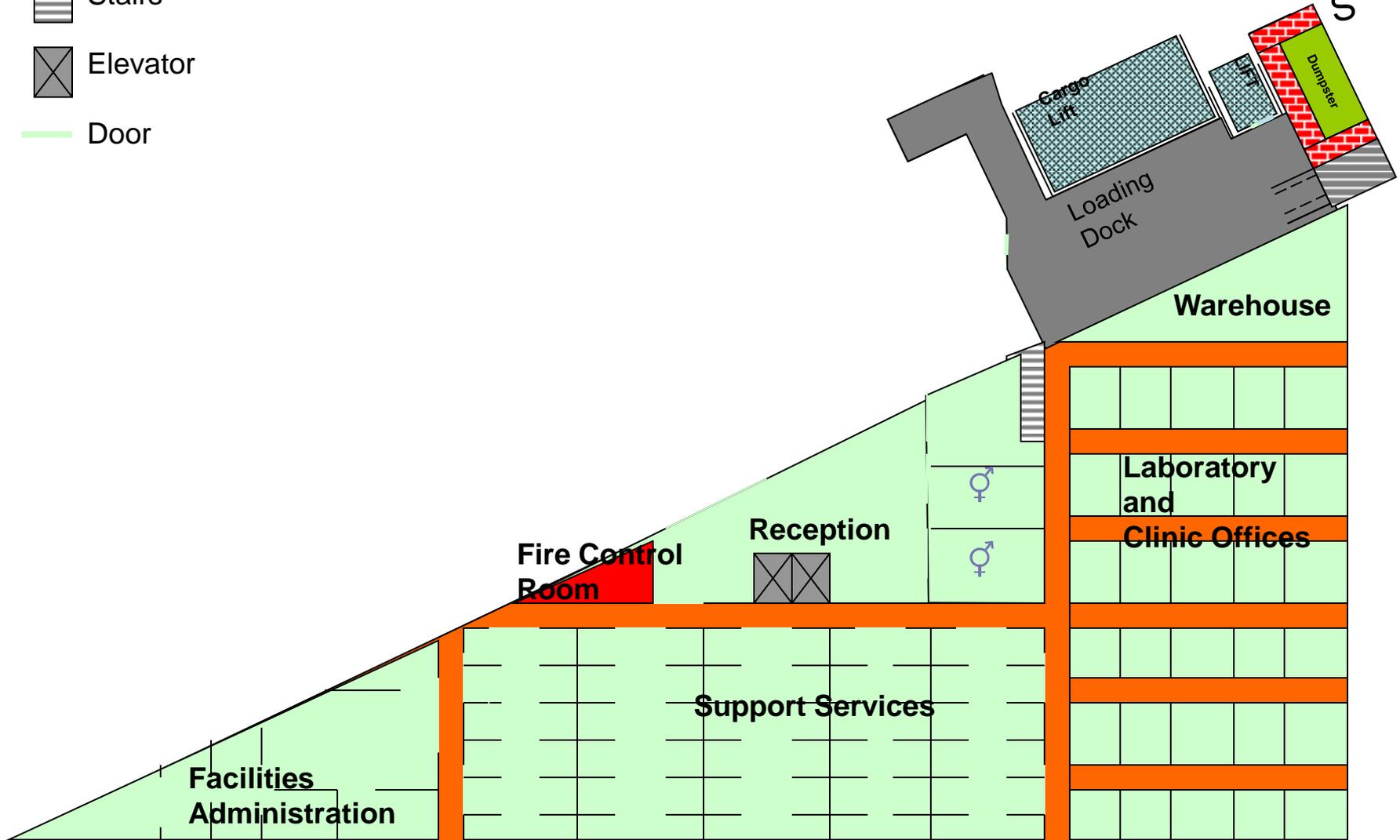
Stairs



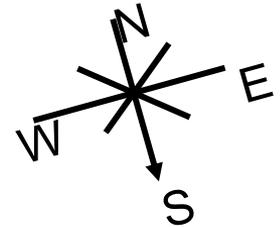
Elevator



Door



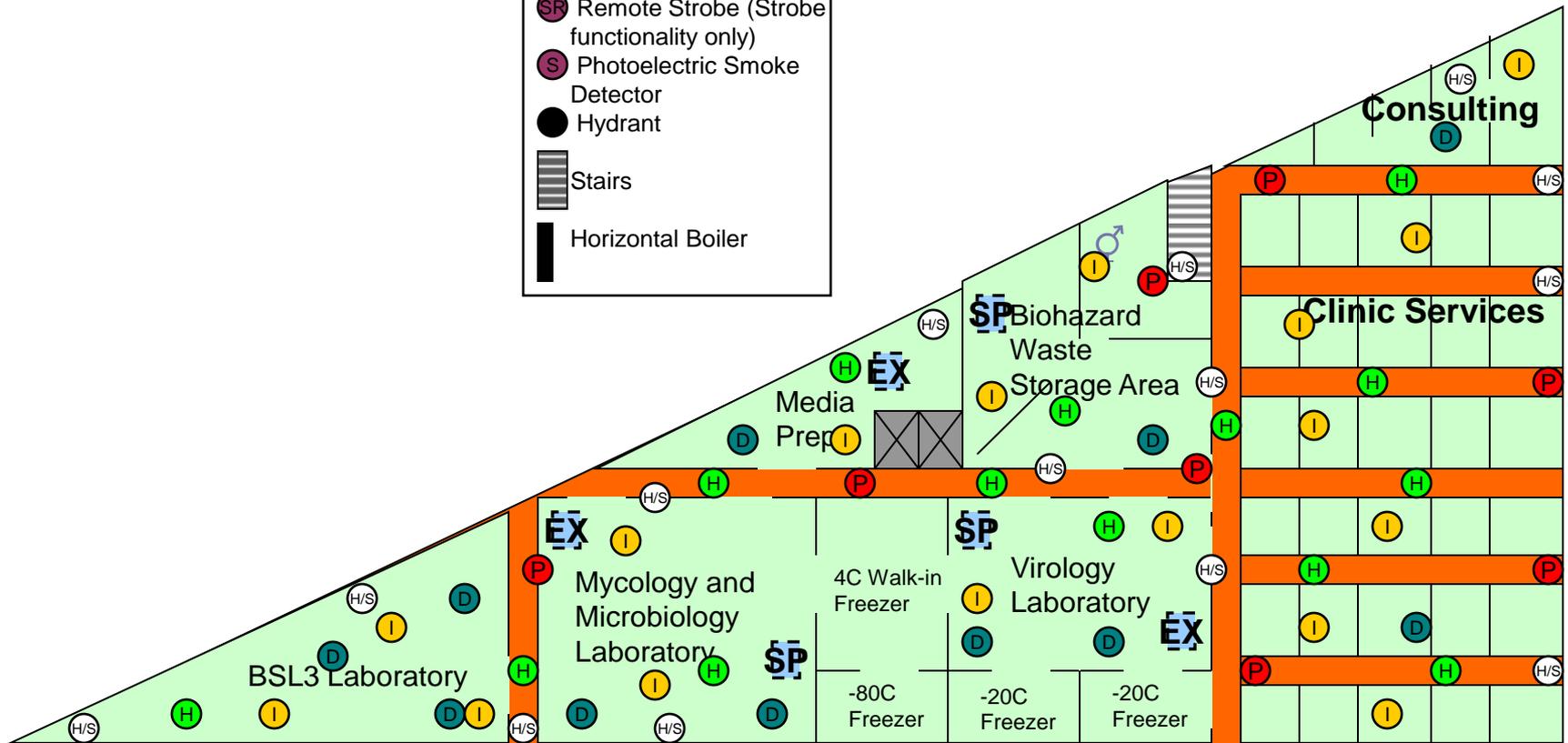
North Tower (2nd Floor)



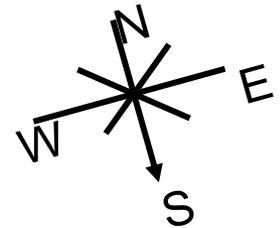
Key

- Ionization Detector
- Heat Detector
- Duct Detector
- Pull Station
- H/S Horn & Strobe
- TS Tamper Switch
- FS Flow Switch
- SR Remote Strobe (Strobe functionality only)
- S Photoelectric Smoke Detector
- Hydrant
- H/S Stairs
- H/S Horizontal Boiler

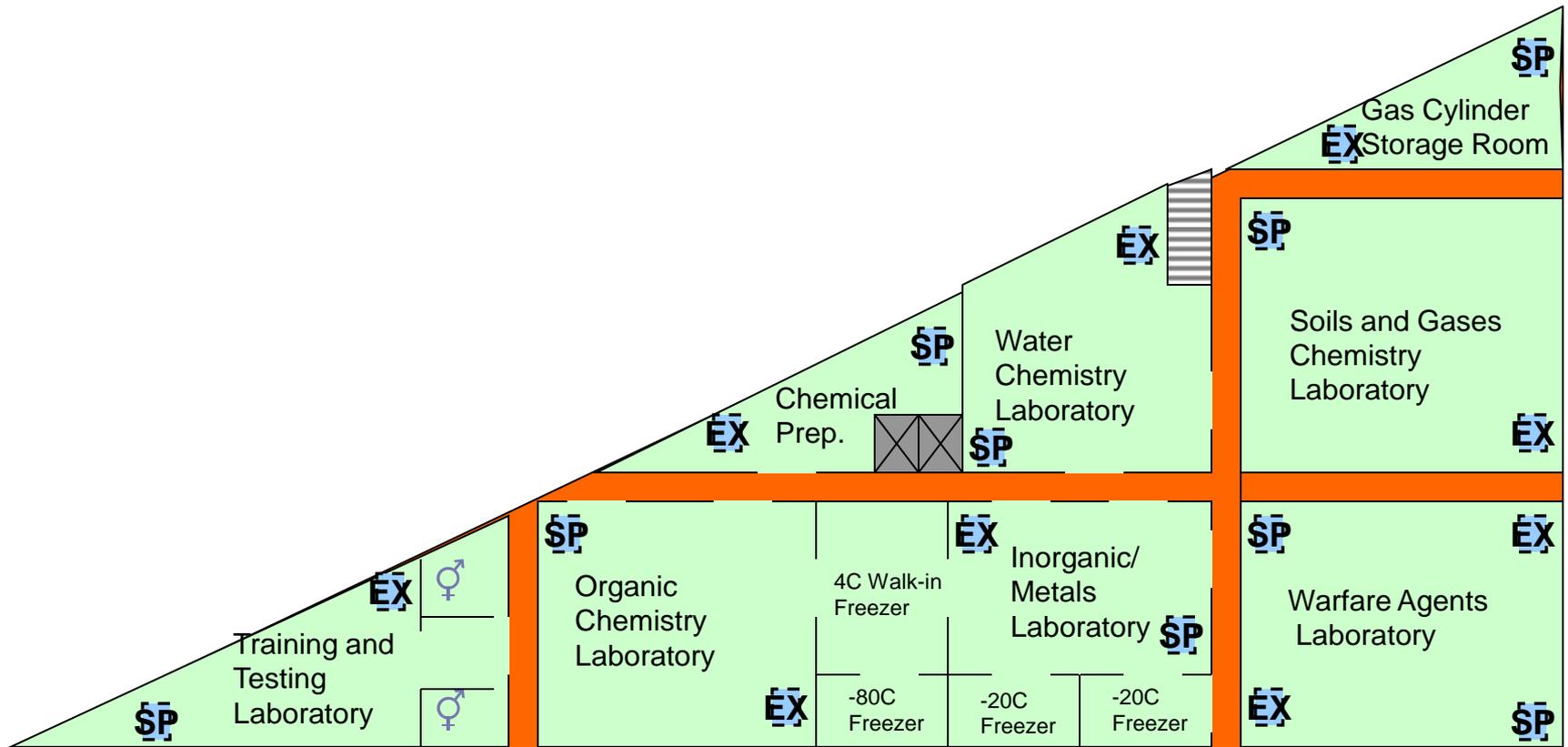
- H/S Stairs
- E Elevator
- Door



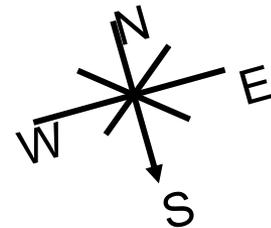
North Tower (3rd Floor)



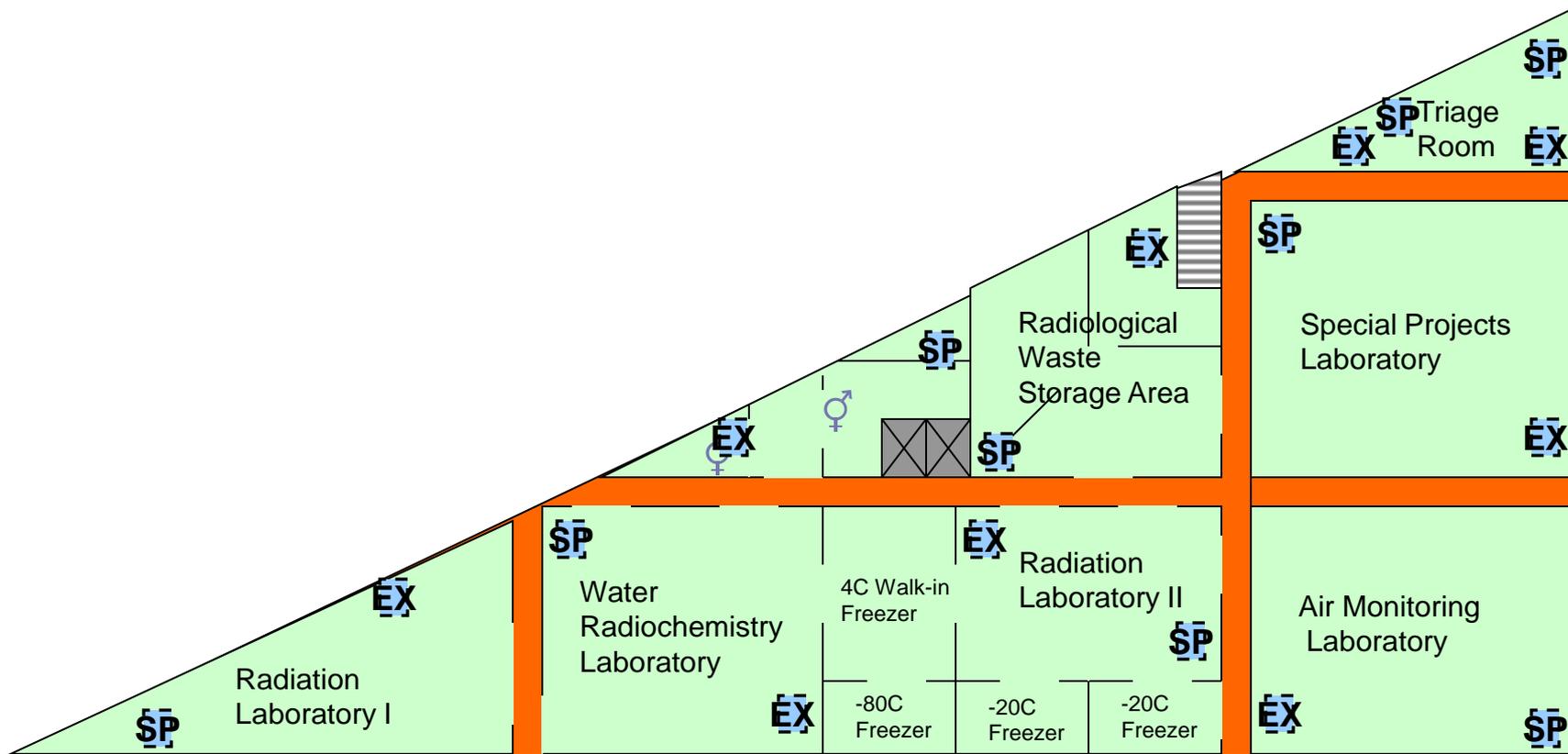
-  Stairs
-  Elevator
-  Door



North Tower (4th Floor)

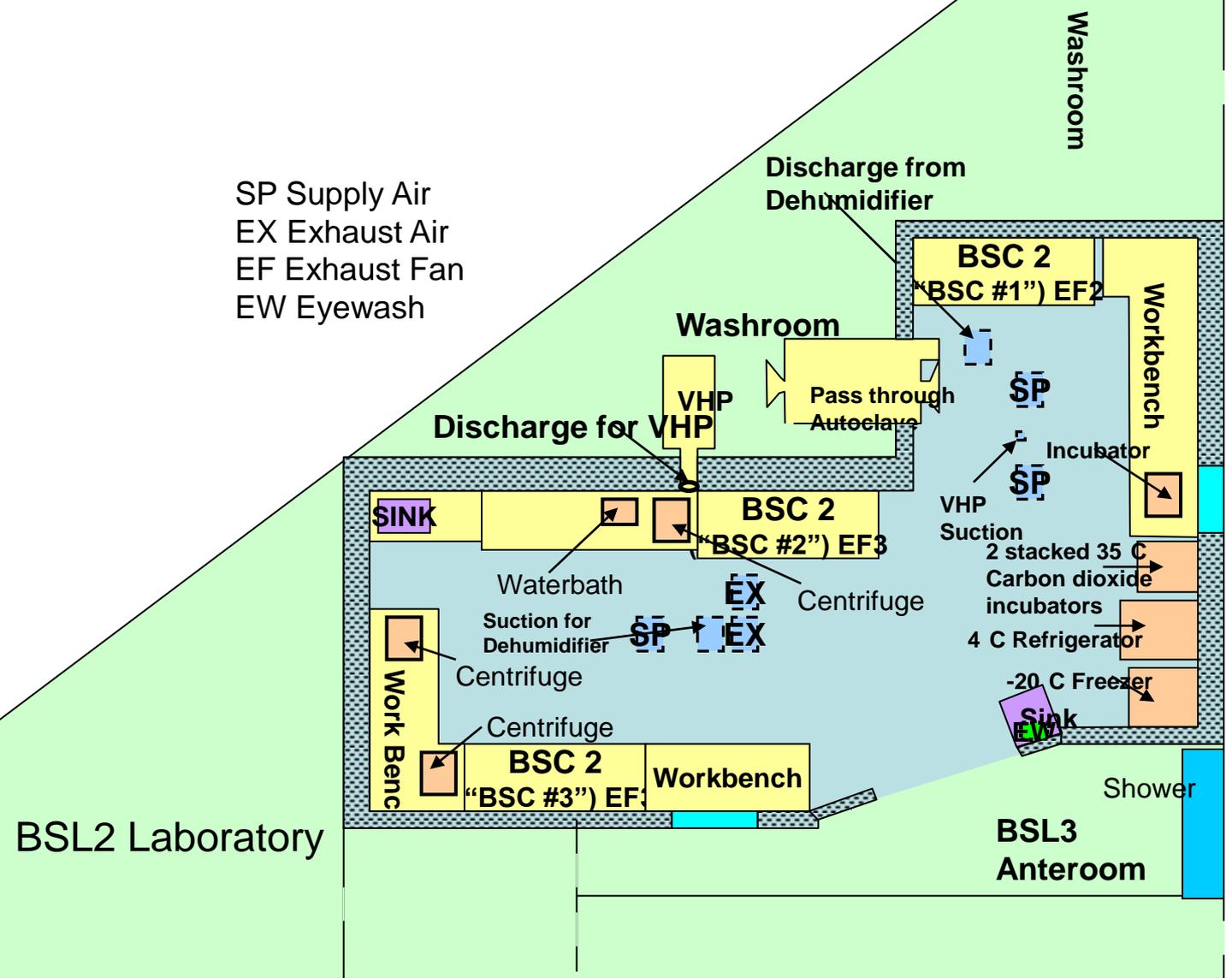


-  Stairs
-  Elevator
-  Door

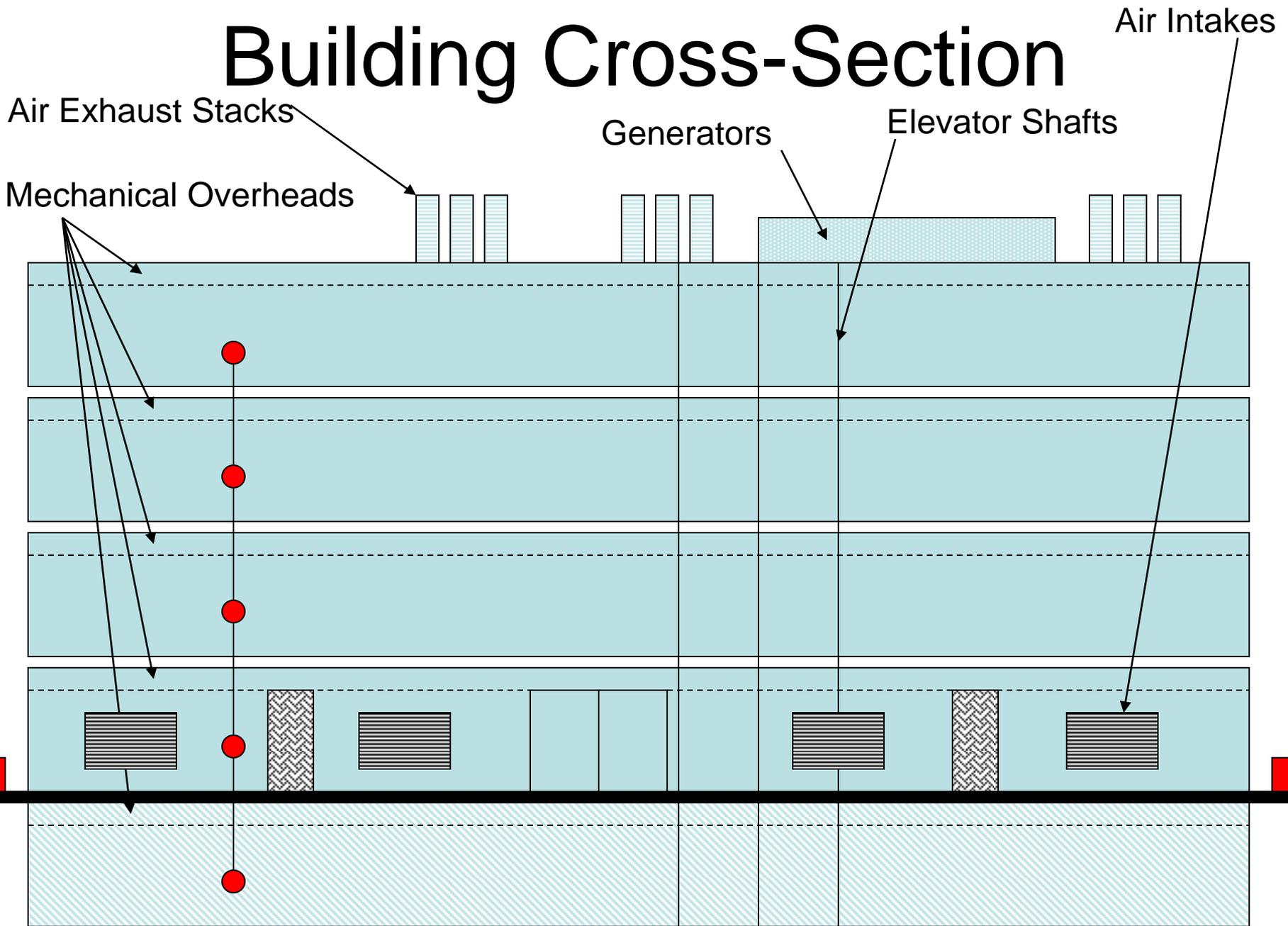


BSL 3 Laboratory Suite

SP Supply Air
 EX Exhaust Air
 EF Exhaust Fan
 EW Eyewash



Building Cross-Section



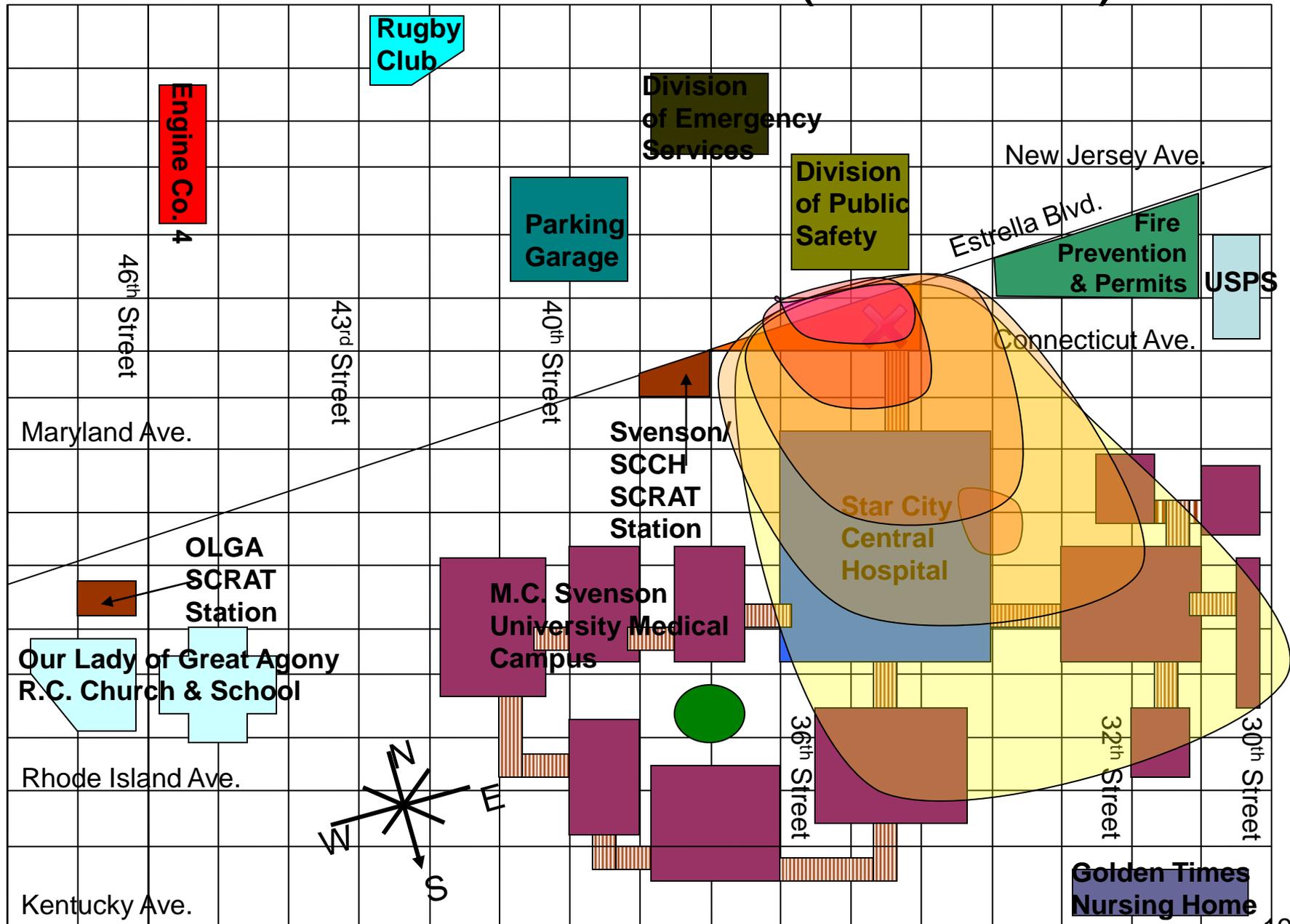
First Due Unit Priorities

- Initial considerations
 - Life Safety
 - Rescue or Plumbing?
 - Initial Characterization
- Incident Stabilization
 - Mitigation Strategies
 - Chem vs. Bio
 - Decontamination Priorities
- Property Conservation

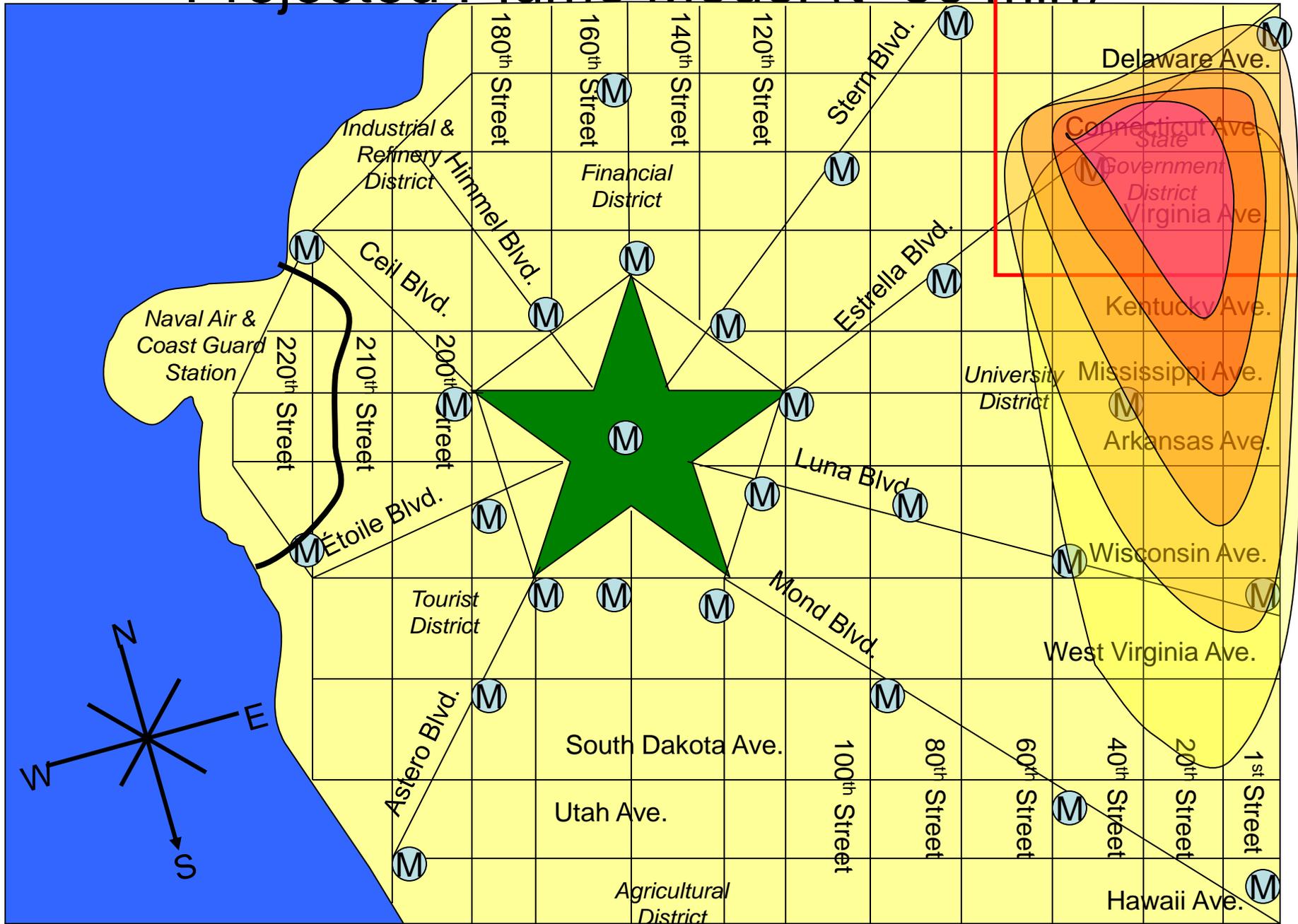
Additional Considerations

- Personnel Considerations
 - Potential vs. Known Exposure
 - Isolation and Quarantine Requirements
 - Multi-Agent Events
- Collection Considerations
 - Negotiated Protocol
 - Referral – Primary Laboratory Offline

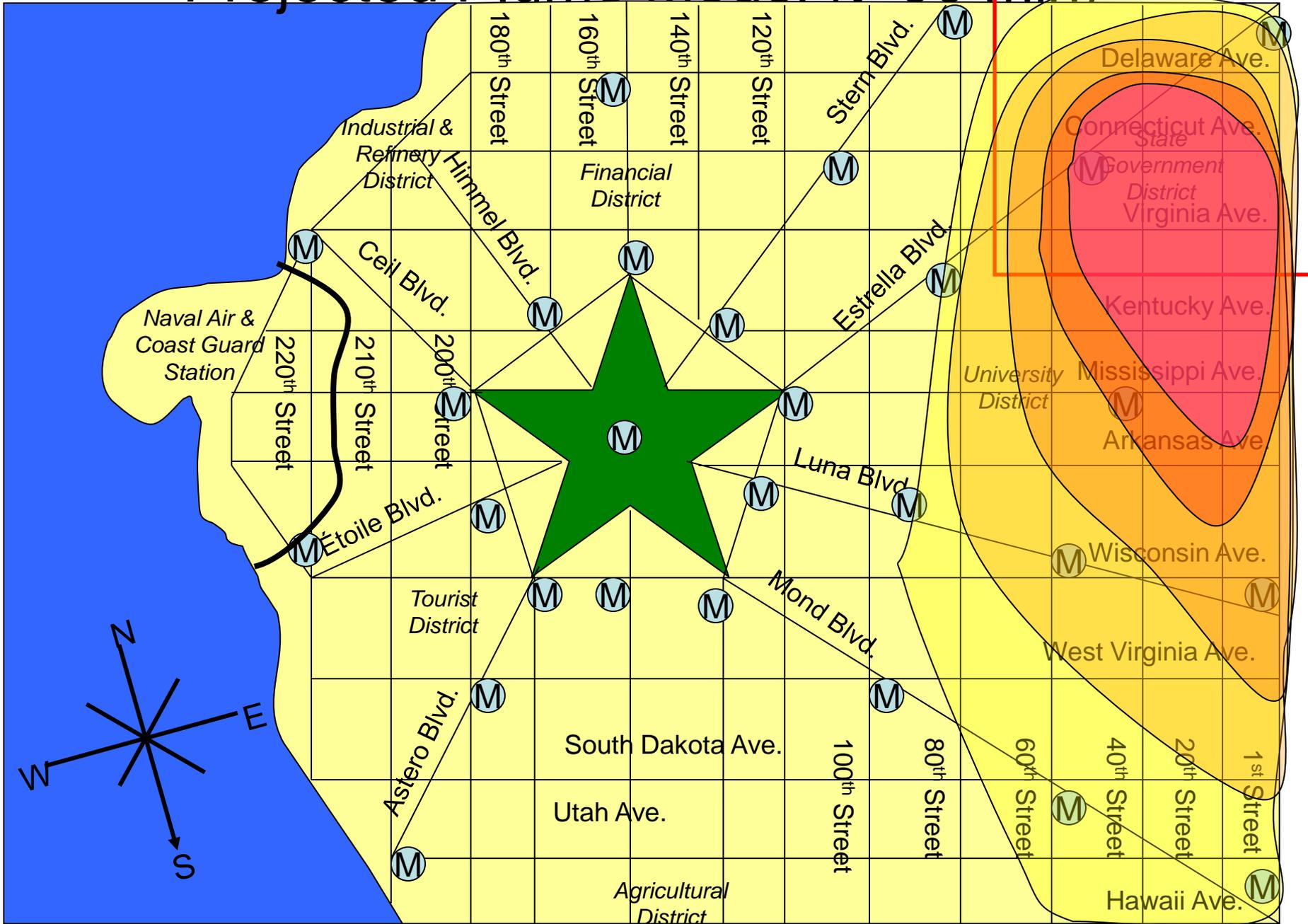
Initial Plume Model (t=5 min.)



Projected Plume Model (t=60 min)



Projected Plume Model (t=90 min)



Fumigants

- N,N-diethyl-meta-toluamide (DEET)
 - **Eye & Skin Irritant**
 - **Ingestion:** Gastrointestinal irritation, nausea, vomiting and diarrhea. Central nervous system effects.
 - **Inhalation:** Respiratory tract & mucous irritatant.
- Methyl isocyanate (onset minutes to 30 days)
 - **Eye, Skin, & Respiratory Irritant**
 - **Severe pulmonary edema**
 - **Injury to the alveolar walls of the lung**
 - **Severe corneal damage**
 - **Death**

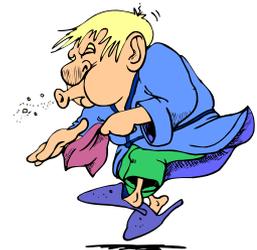
Potential Agents of Biowarfare

- Bacterial
 - Anthrax
 - Brucella
 - Glanders
 - Q-Fever
 - Rabbit fever
 - Plague
- Viral
 - Vaccinia
 - Smallpox
 - Chickenpox
 - Shingles
- Toxins
 - Ricin
 - Botulism

Other significant agents exist; however, they are exceptionally rare and require highly specialized laboratories found in federal jurisdictions (i.e., BSL4 capabilities)

Medical Surveillance - Illness Reporting

- Generalized symptoms of a possible BT related illness:
 - Any instance of fever exceeding 101°F or any persistent or reoccurring low grade fever
 - Tender, swollen lymph nodes
 - Any lesion or rash for which the cause is unknown
 - Any ulcerated or necrotic lesion
 - Persistent diarrhea (> 3 days) or any instance of bloody diarrhea
 - Any combination of clinical symptoms consistent with agent specific infection



Specific Agent Information Sources

- Signs, Symptoms and Clinical Manifestations
- Treatment, reporting, and other information
- MSDS for each Select Agent and/or Toxin are available through Health Canada at:

<http://www.phac-aspc.gc.ca/msds-ftss/>

- CDC website

<http://www.bt.cdc.gov/>



Suspected Potential Exposure

- Treat as a potentially infectious substance
 - Universal precautions are a must
 - Patient precautions dependent on stability
 - Mask or non-rebreather
- Decontaminate self
 - Minimum hot water and soap (NOT Alcohol solutions)
 - Specialized soaps do exist for decontamination, but are used for environmental/physical contamination
- Report suspected BT exposure to receiving facility
 - Determine contact in Infection Control
 - Ensure noted in EDIN/DIMES report, include all personnel who may have been potentially exposed

Suspected Potential Exposure

- Decontaminate unit
 - Minimum 10% FRESH bleach applied for 30 minutes
 - Recommend 70% Ethanol applied for 10 minutes (or evaporates)
- Contact your Designated Officer
- If there is preliminary positive of a potential BT infection, receiving facility will notify you and Designated Officer
 - Additional testing may or may not be required
 - Prophylaxis or treatment may or may not be required

North Tower Lobby Fire Alarm Panel

