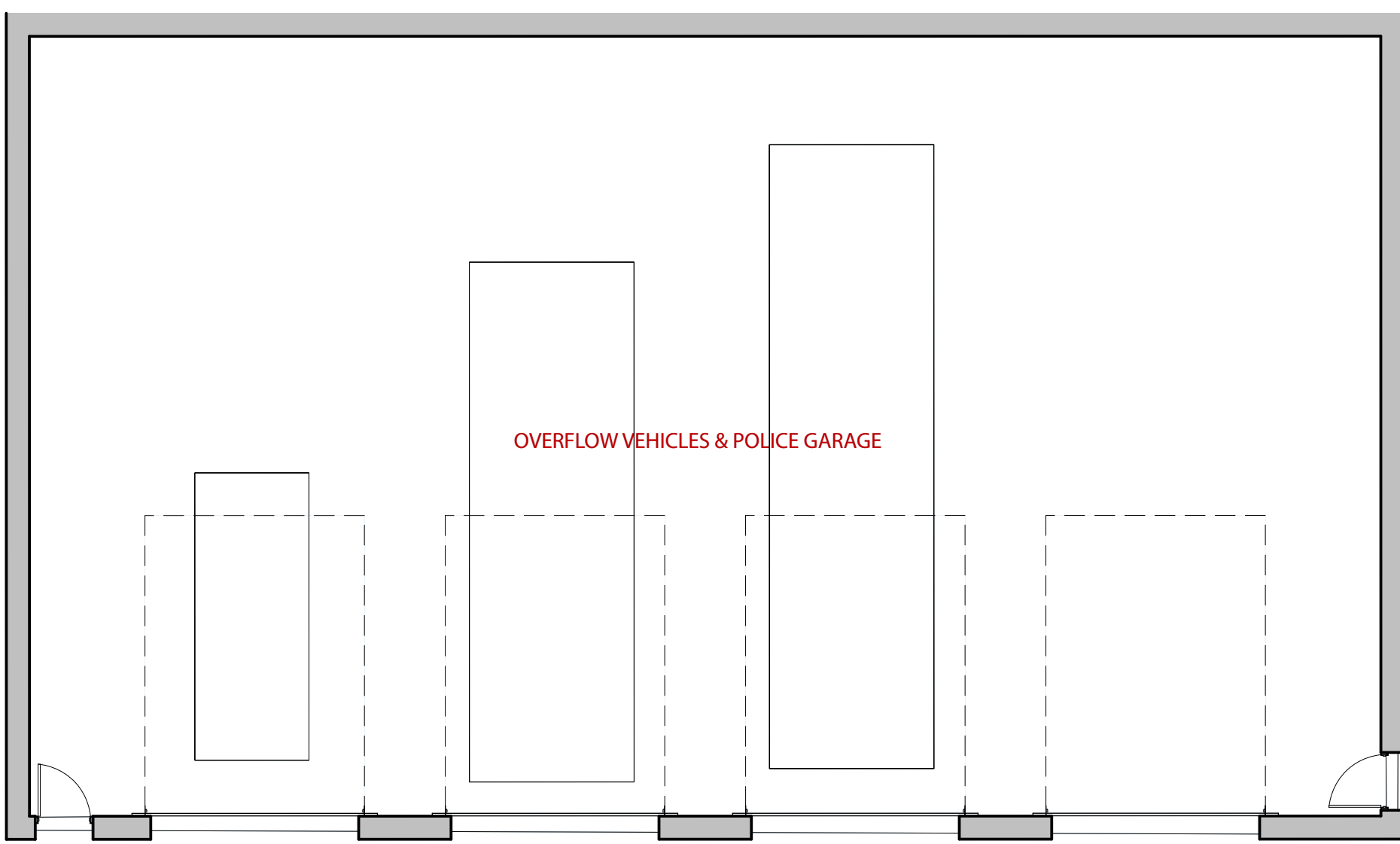


Apparatus (Dirty)
  Apparatus Support Space (Dirty)
  Transition Space
  Circulation
  Administration (Clean)
  Facilities (Clean)
  Private

- |                             |                            |                       |                                 |                                    |
|-----------------------------|----------------------------|-----------------------|---------------------------------|------------------------------------|
| 1. APPARATUS BAY            | 7. EXERCISE ROOM           | 13. RPZ ROOM          | 19. ICE COOLERS & WATER STORAGE | 25. UTILITY MEZZANINE              |
| 2. KITCHEN / DAY ROOM       | 8. LAUNDRY                 | 14. VESTIBULE         | 20. SINGLE OCC. RESTROOM        | 26. QUARTERMASTER / RECORD STORAGE |
| 3. TRAINING / MULTI-PURPOSE | 9. BUNK ROOM               | 15. BAY TRANSITION    | 21. WOMEN'S RESTROOM            | 27. I.T.                           |
| 4. FIRE PREVENTION          | 10. RADIO / COMMUNICATIONS | 16. STORAGE           | 22. MEN'S RESTROOM              | 28. MECHANICAL ROOM                |
| 5. CHIEF OFFICE             | 11. WORKSHOP               | 17. DECON / SCBA ROOM | 23. JANITOR'S CLOSET            | 29. ELECTRICAL ROOM                |
| 6. EOC / SHARED OFFICE      | 12. LOCKERS                | 18. EMS STORAGE       | 24. TRAINING MEZZANINE          |                                    |

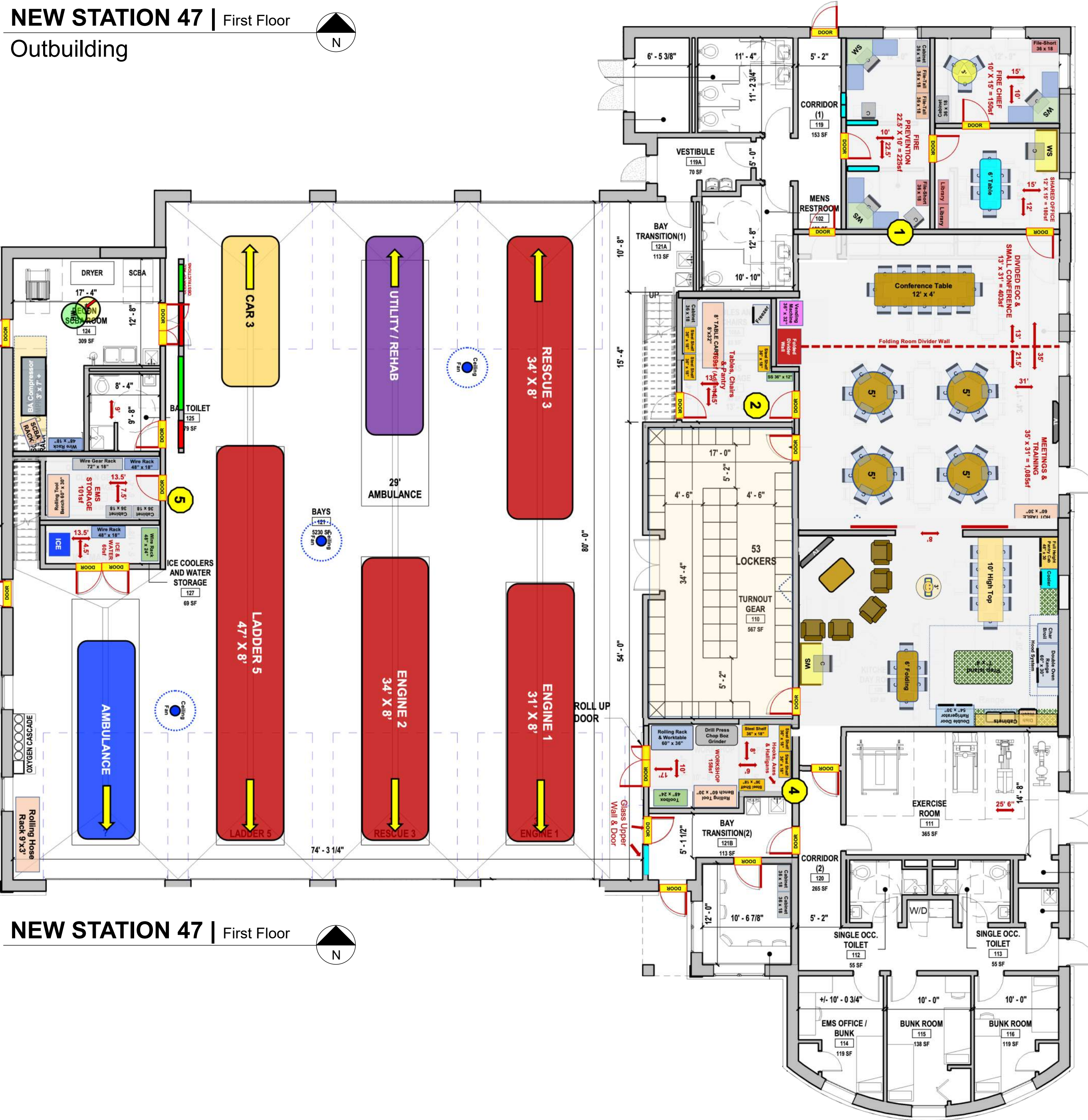
**PROPOSED FIRST FLOOR PLAN**

**PROPOSED MEZZANINE**

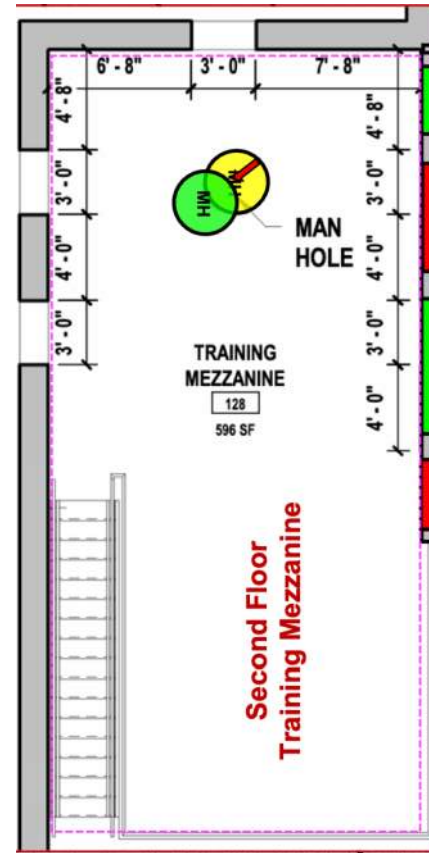


OVERFLOW VEHICLES & POLICE GARAGE

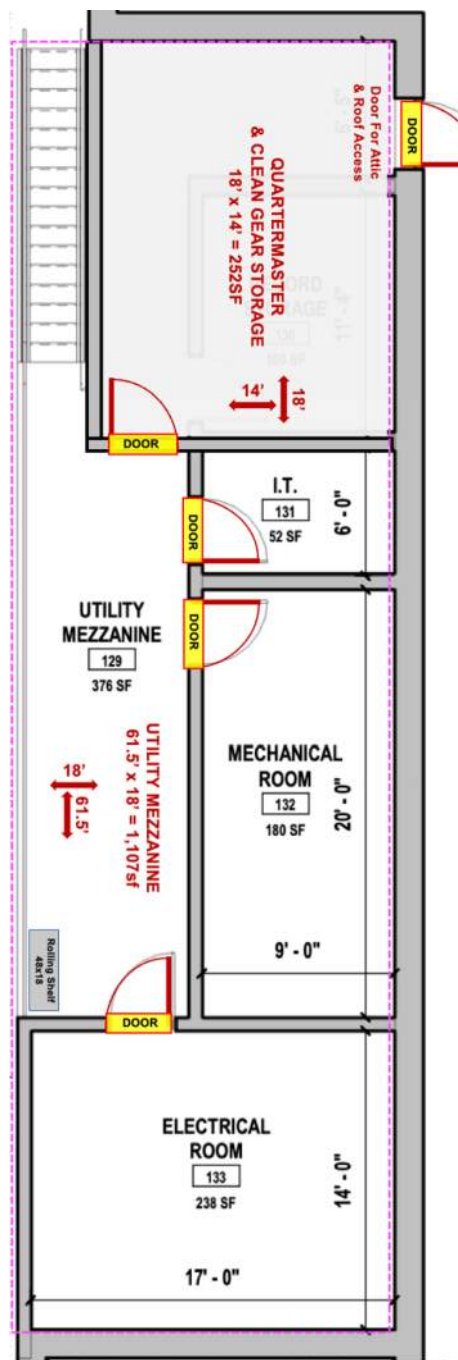
**NEW STATION 47** | First Floor  
Outbuilding



**NEW STATION 47** | First Floor



**NEW STATION 47** | Mezzanine Level  
Training Mezzanine



**NEW STATION 47** | Mezzanine Level  
Utility Mezzanine



**CURRENT STATION**



# Sustainability and Energy Efficiency

## A Commitment to The Future

### H2M is a leader in sustainability and energy efficiency

Whether it's LEED, Green Globes or common-sense life cycle cost savings, we have solutions that work for your specific goals and requirements.



The Village of Fayetteville Fire Department is the first LEED Silver Fire Station in New York State.

#### Site:

- Maintain existing vegetation whenever possible
- Construction activity pollution prevention
- Storm water pollution prevention
- Low-water plantings and native species
- Light colored walks and drives where appropriate
- Dark Skies compliant LED exterior lighting
- Use of Local materials
- Recycled products when locally available
- Balanced cut/fill
- Re-use of existing on-site soils
- Oil water separator for bay trench drains
- Grease interceptor for kitchen waste
- Environmentally friendly storm water detention/retention



LEED Gold certification, Norwalk HQ uses a Variable Refrigerant Flow (VRF) mechanical system that allows personalized individual zone control and superior energy efficiency by internally harvesting and redistributing solar gain and other heat differentials in all seasons.

#### Mechanical and Plumbing:

- In floor radiant heat (bays and bay support)
- Ultra-high-efficiency tankless condensing boilers
- Interior and exterior temperature sensors for bays
- HVAC economizers and zone dampers
- Programmable set-back thermostats (occupied/unoccupied modes)
- HVAC zones with controls to exceed minimum indoor air quality ventilation rates
- Fundamental refrigerant management (CFC)
- Smoke-free buildings/environmental air quality control
- High-efficiency water heaters
- Zone circulation pumps
- High efficiency pumps, circulators and motors
- Low flow plumbing fixtures
- Flush sensors
- Pipe insulation and exterior duct insulation throughout
- Energy calculations to document minimum energy performance expectations
- Evaluation of primary fuel for heating
- Renewable energy systems when economically and practically appropriate
- Sustainable base designs, all electric or net zero where applicable

#### Architectural:

- Proper siting and orientation for climate conditions
- Regional materials
- Design for maximum daylight harvesting
- Operable windows, thermal breaks and screens
- Dual glazed high performance low-E glass throughout
- Enhanced levels of insulation (High-R doors, walls, overhead doors, roofs and foundation perimeter)
- Weatherstripping, sealants, and foam barriers
- Continuous vapor and infiltration barriers
- Low VOC emitting materials
- Recycled content
- Material Reuse
- Storage & collection of recyclable materials
- Long-life roofing materials
- High reflectance coatings, ceiling materials and roofing (where appropriate)
- Durable material selection for the best life-cycle cost that reduces replacement waste
- Building reuse and renovation (Embodied Energy Conservation) where applicable
- Overhead fans in bays and living spaces
- Controllability and intelligent indoor environmental systems



Our Norwalk station uses extensive daylight harvesting with integrated fixture dimmers to reduce costs.

#### Electrical:

- High efficiency fluorescent and LED lighting fixtures
- Integrated daylight sensors and dimmable fixtures to reduce electric lighting levels during daylight hours. This is integrated with architectural daylighting solutions such as ample windows, glass block walls and skylight systems.
- Occupancy sensors throughout
- Photocell and timer control for exterior lighting
- Rampable, soft lighting and floor tracks for bunk rooms
- Controllable multi-level task lighting
- Multiple "levels" of lighting and controls for specialty rooms (training, conference, etc.)
- High efficiency 3-Phase motors
- Step control of air conditioning start-up loads to reduce generat size
- Energy calculations to exceed regulatory requirements



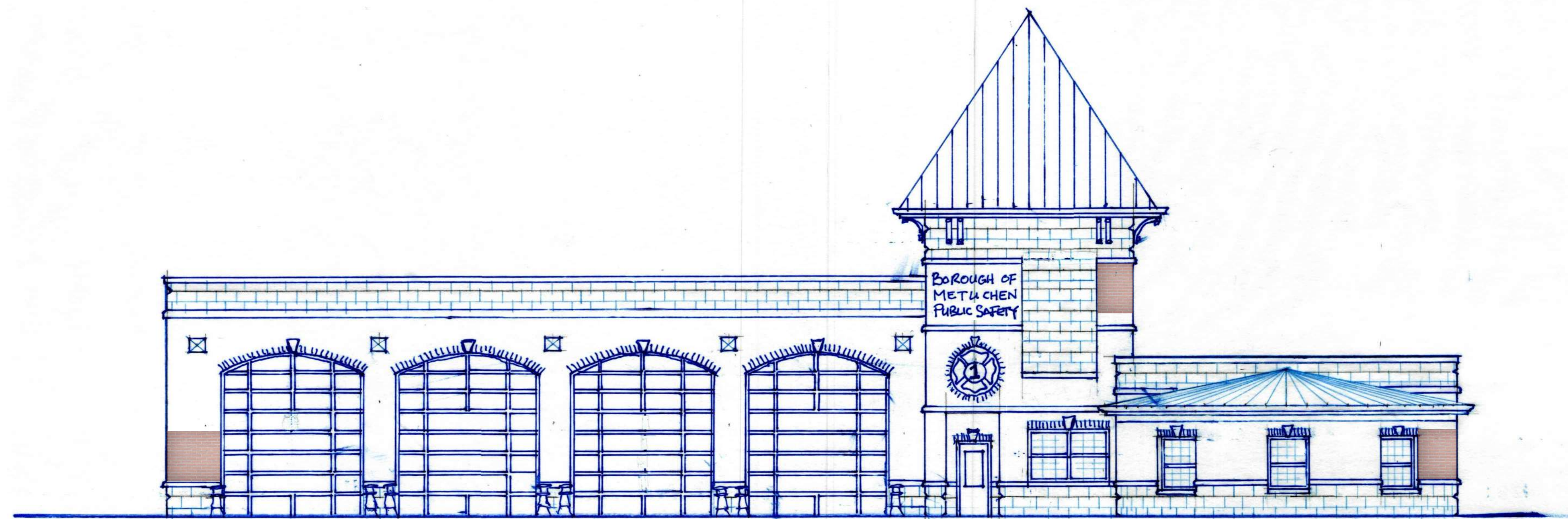
An interior corridor uses gel-insulated roof panel to allow dimmed light fixtures in the daytime. Electrical system incorporates roof photovoltaics.



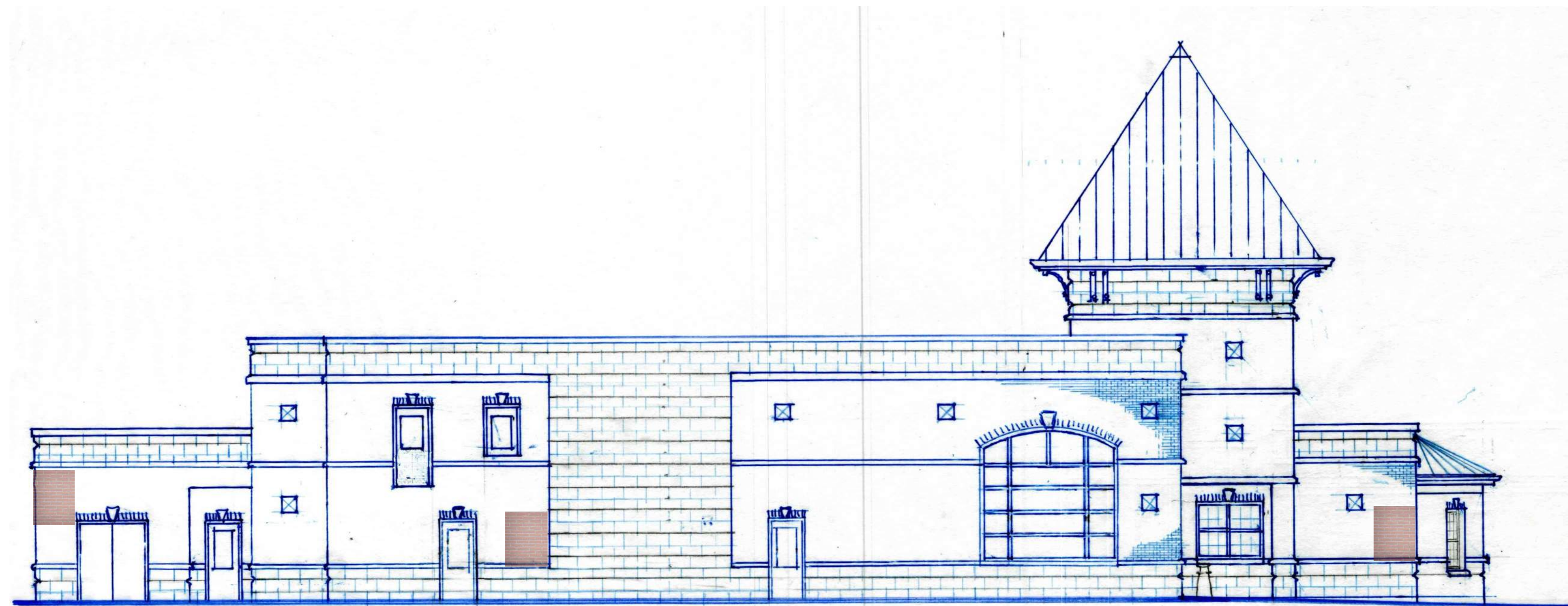
**LEGEND**

- New Firehouse / OutBuilding
- Concrete Training Platform
- Asphalt
- Grass
- Sidewalk

**PROPOSED SITE PLAN**



**SOUTH ELEVATION**



**WEST ELEVATION**