



6513 MAIN STREET

DRAWINGS

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ALTERNATES

F.1: INTERIOR (BASE BID)
See A-110, A-120, A-400, A-550, A-590, A-600, A-710, mech dwgs

F.2: FURNITURE
See A-820.

FIREHOUSE

CLIENT

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ESSEX FARM WORKER HOUSING

Firehouse
6513 Main St.
Westport NY 12993

T-000.00

Title Sheet

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GENERAL NOTES

1) The construction manager / general contractor shall verify all existing conditions in the field prior to commencing work and shall report any discrepancies between the drawings and existing conditions to the architect.

2) Minor details not usually shown or specified but necessary for proper construction of any part of the work shall be included as if they were indicated in the drawings except for compromise to base building systems and finishes.

3) The construction manager / general contractor shall coordinate all work with requirements of local authorities.

4) The construction manager / general contractor shall verify all load-bearing walls, posts, beams, etc and notify architect immediately of any discrepancies or conflicts with new work.

5) All dimensions are from finished walls and partitions unless otherwise indicated. Walls shown to 'align' shall be finished flush and smooth with existing work. After the floor channels for the partition walls have been laid the architect is to be notified so that work may be inspected and approved for conformance with design before proceeding with additional construction.

6) The construction manager / general contractor is responsible for coordination of all subcontractors, suppliers, and vendors as well as deliveries, off-loading, and handling of all materials and equipment unless otherwise noted. Any substitute in specifications must be submitted to the architect for omissions, ambiguities, or conflicts in any of the construction drawings, or be in doubt as to their meaning, he must bring the question to the attention of the architect prior to the start of construction. The architect shall review the question and where the information sought is not clearly indicated or specified, will issue a clarifying addendum. Neither the owner nor the architect will be responsible for verbal instructions.

7) These drawings are supplemented by separate standard specifications in the project manual which establish the minimum standard of materials and workmanship. If there is any conflict between the drawings and specifications, the most stringent requirement shall apply.

8) Written requests must be submitted for any proposed changes in the scope of work by the construction manager / general contractor to the owner and architect before any work is started. Such requests shall indicate scope of work, cost, and possible delays to the project.

9) The construction manager / general contractor shall be responsible for the protection of all conditions and materials within the proposed construction area. The construction manager / general contractor shall have sole responsibility for any damage or injuries caused by or during the execution of the work.

- A) Where demolition is indicated, remove all objects except those specifically designated to remain.
- B) The drawings may not show all items or objects existing at the site. The construction manager / general contractor must verify at the site all objects to be preserved and report to the architect any discrepancies or questionable items.
- C) Use all means necessary to protect existing objects designated to remain, and in the event of damage, immediately make all repairs and replacements necessary to the approval of the architect at no additional expense to the owner.
- D) Prior to commencement, carefully locate and inspect the entire site and all objects designated to be removed and to be preserved, as well as all existing utilities and determine all requirements for disconnecting, capping, or protecting all such work in accordance with the requirements of the utility company, building management, or agency involved.
- E) The construction manager / general contractor shall remove, reroute, and / or cap all unused utilities after checking with the architect. The items shall be capped off within existing walls or slabs.

10) Partitions:

- A) All outside corners at masonry and drywall partitions shall have metal corner beads. Tape and spackle smooth where required. Three coat spackle finish minimum.
- B) All defective plaster and / or drywall on adjacent existing walls shall be chopped out and / or patched free of irregularities and shall match adjacent walls in finish and thickness.
- C) Alignment of new wall construction to existing walls and columns shall be done in a manner so as to visible eliminate the point of contact or joint of new and existing materials.
- D) Where demolition has occurred, contractor shall fill all holes, patch smooth, and level all remaining surfaces including walls, floors and ceilings. Square all corners and properly prepare all surface to receive finishes.
- E) For the removal of all unwanted equipment and debris at the completion of construction, debris storage will only be permitted in the owner's space until contractor's debris removal trucks arrive on site. At that time, as coordinated with building management, it will be permitted to bring the debris down through the building. All removal cost will be born by the contractor.
- F) Clean fixtures, equipment, finish hardware, and painted and decorated surfaces and remove marks, stains, paint, dirt, and other soiling resulting from the work of this contract.

11) Temporary power and lighting to be taken from the owner's meter panel. Contractor to coordinate with owner.

12) The owner is responsible for land surveys, topographic surveys, boundary and property surveys.

13) The contractor is responsible for Building and Planning Department inspections and any inspections required for the project by the authorities having jurisdiction.

14) General contractor to relinquish any construction materials, equipment, and fixtures requested by owner.

15) Maintain structure in weather-tight condition at all times.

16) All materials and products shall be installed strictly in accordance with the manufacturer's instructions.

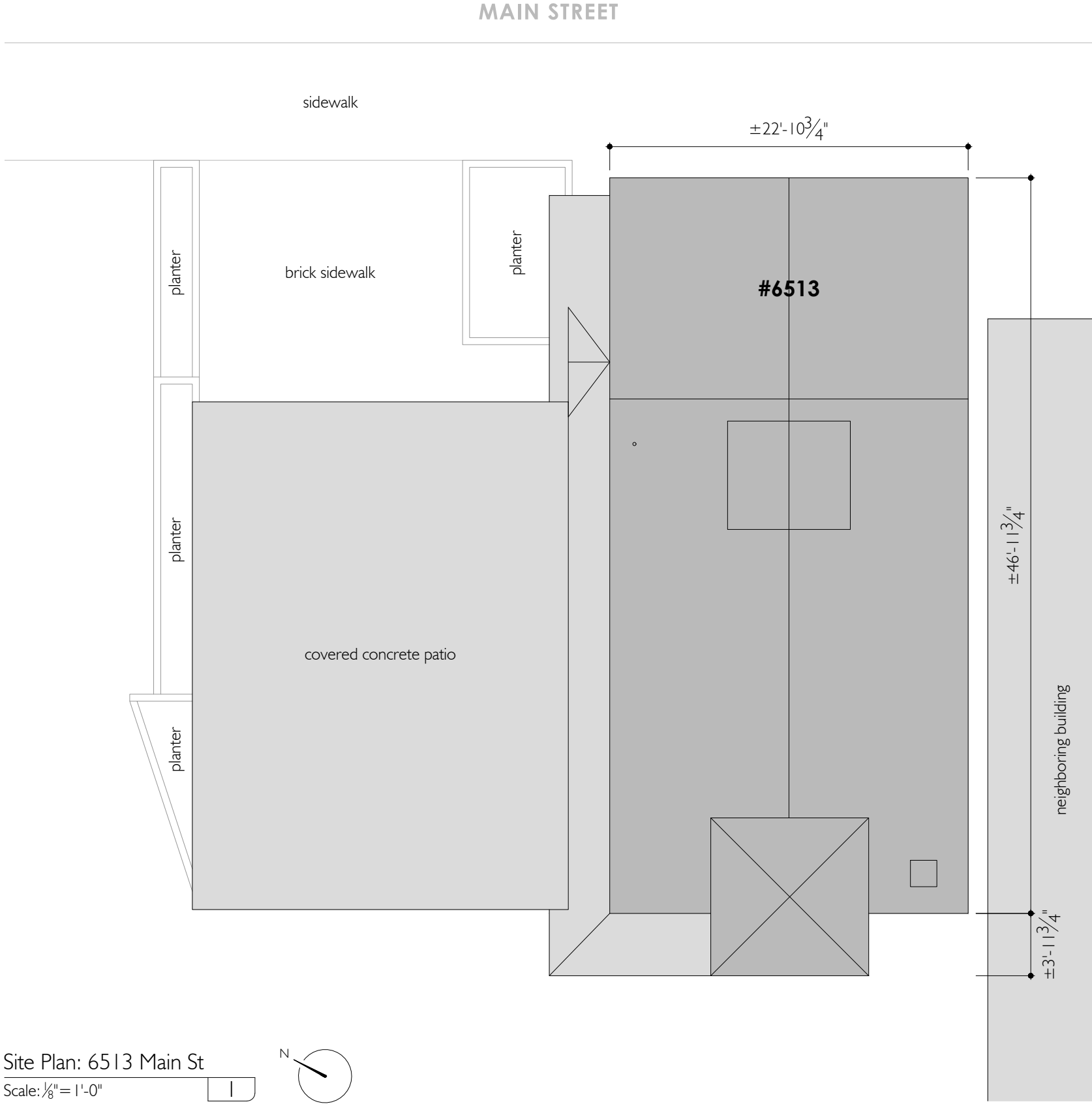
ASBESTOS AND LEAD PAINT REMOVAL NOTES

1) The owner is responsible for the discovery and disclosure of hazardous construction materials / finishes at the site. All work areas must be tested for asbestos and lead paint contamination by a certified inspector before commencing work.

2) New York State laws and regulations (NYS Dept of Labor Code Rule 56) require the owner of a building to have an asbestos survey completed prior to renovations. The building owner shall engage a certified asbestos inspector to sample and test all building construction materials (interior and exterior) that will be disturbed (cut, drilled, removed, or demolished) for renovations. The asbestos inspector will provide a report of the asbestos containing building materials located in the subject building. Then the owner shall have an abatement design (drawings and specifications) prepared by a certified asbestos designer. All asbestos containing building materials shall be abated or enclosed by a NYS licensed asbestos abatement contractor in accordance with all state and federal regulations. The asbestos survey and abatement costs are the responsibility of the owner.

3) The contractor is responsible for the proper protection or removal of hazardous construction materials / finishes during construction, in compliance with all state and federal regulations. Contractor must adhere to EPA standards for lead paint removal. Removal of lead and asbestos may only be undertaken by certified professionals.

4) If lead is present, contractor must be EPA certified to remove lead paint and all employees on site must be trained in lead-safe work practices. Contractor shall provide proof of training and certification.



FIREHOUSE

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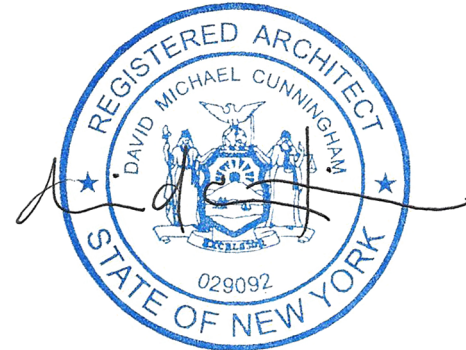
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ESSEX FARM WORKER HOUSING
Firehouse
6513 Main St.
Westport NY 12993

G-001.00

General Notes + Site Plan

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CODE SUMMARY

FIREHOUSE

General Summary

Project Description

Renovation of existing 2-story, 2,702 gross sf (including cellar) migrant farm worker housing for a total of 5 occupants. The building includes a restaurant on the 1st floor and one dwelling unit on the 2nd floor.

Applicable Codes

X

2020 Existing Building Code of New York State

2020 Mechanical Code of New York State

2020 Residential Code of New York State

X

2020 Energy Conservation Construction Code of New York State

2020 Building Code of New York State

2010 Americans with Disabilities Act

2020 Fire Code of New York State

Fair Housing Amendments Act 1988

2020 Plumbing Code of New York State

X

NYS DOH Sanitary Code Part 15 Migrant Farmworker Housing

Project State: New York

Type of Project

new construction

building addition

alteration - level 3

X

alteration - level 2

alteration - level 1

Zone

Westport Zoning Code
V-BUS

Use & Occupancy Classification

2020 Building Code of New York State
No change in occupancy.
Assembly Group A-2: restaurant
Residential Group R-3: one dwelling unit

Type of Construction

2020 Building Code of New York State
Type V-B: structural elements, exterior walls and interior walls are of any materials permitted by this code

Building Height & Area

Building Height & Area

Occupancy Classification

Construction Type

Sprinkler

A-2

V-B

NS

Tabular Allowable

Proposed

Bldg Ht Abv Grade Plane

Stories Abv Grade Plane

Building Area

Allowable

Allowable

Allowable

BCNYS

Zoning

BCNYS

Zoning

BCNYS

Zoning

40'-0"

35'-0"

1

NR

6,000 sf

NR

most restrictive

1 story

most restrictive

6,000 sf

35'-0"

1 story

1,128 sf

Building Height & Area

Occupancy Classification

Construction Type

Sprinkler

R-3

V-B

NS

Tabular Allowable

Proposed

Bldg Ht Abv Grade Plane

Stories Abv Grade Plane

Building Area

Allowable

Allowable

Allowable

BCNYS

Zoning

BCNYS

Zoning

BCNYS

Zoning

40'-0"

35'-0"

3

NR

UL

NR

most restrictive

3 stories

most restrictive

UL

35'-0"

2 stories

959 sf

Allowable area for mixed-occupancy, multistory building per 506.2.4

Frontage increase not required.
Allowable area for A-2 (Equation 5-3): 6,000 + (6,000 x 0) = 6,000 sf
R-3 occupancy is unlimited.

Building Construction

Fire Resistance Rating Requirements for Building Elements (Hours)

Construction Type: V-B

Building Element

Type I

Type II

Type III

Type IV

Type V

A

B

A

B

A

B

HT

A

B

3

2

1

0

1

0

HT

1

0

bearing walls:

- exterior

- interior

3

2

1

0

2

2

2

1

0

3

2

1

0

1

0

1 / HT

1

0

non-bearing walls:

- exterior walls and partitions

- interior walls and partitions

2304.11.2

0

0

0

0

0

0

HT

1

0

floor construction

roof construction

2

1 1/2

1

1

0

1

0

1

0

Fire Separations

X

required separation of occupancies per BCNYS Table 508.4:
- 2 hr between R and A occupancies, not sprinklered

X

incidental use area protection per BCNYS Table 509:
- 1 hr at furnace room with furnace over 400K BTU
- 1 hr at boiler room with boiler over 15 psi and 10 hp

X

stairwells: not required (EBCNYS 802.2.1 Exception 12)

Foam Plastics

X

foam insulation: flame spread < 75 and smoke developed < 450 (BCNYS 2603.3)

X

thermal barrier separation from interior required at foam insulation (BCNYS 2603.4)

X

NFPA 285 test NOT required for Type V-B exterior walls with foam insulation (BCNYS 2603.5)

Finish Requirements

X

wall / ceiling finish: class C in exit stairways, exit passageways, corridors, and exit access stairways (FCNYS Table 803.3)

X

wall / ceiling finish: class C in rooms and enclosed spaces (FCNYS Table 803.3)

X

floor finish in exit enclosures and corridors to be minimum class II (FCNYS 804.3.3.2)

Building Construction

Sprinkler System

fully sprinklered, NFPA 513R system

above grade only

X

not required (EBCNYS 803.2.2)

Fire Dept Connection

required

X

not required (BCNYS 912.1)

Standpipe

required

X

not required (EBCNYS 803.3)

Fire Alarm System

required

X

not required (EBCNYS 803.4.1)

Smoke Alarms

X

required

Smoke alarms installed in individual dwelling and sleeping units (EBCNYS 803.4.3)

Portable Fire Extinguishers

X

required

Provide each dwelling unit with a portable fire extinguisher having a minimum rating of 1-A:10-B:C, (BCNYS 906.1 Exception 1)

CO Detection System

X

required

(BCNYS 915.1)

Building Construction

No of Means of Egress

X

(1) means of egress required for Group R-3 occupancies (BCNYS 1006.2)

Travel Distances

X

maximum exit access travel distance (without sprinkler system): 200'-0" (BCNYS Table 1017.2)

Egress Capacity

X

stair minimum width 0.3' per person or 22" (BCNYS 1005.3.1, EBCNYS 805.3.1.2.2)
other components: 0.2' per person or 36" (for corridors) whichever is greater (BCNYS 1005.3.2 and 1020.2)

Direction of Door Swing

pivot or side-hinged swinging doors shall swing in the direction of egress travel when serving a room or area containing an occupant load of 50 or more persons (EBCNYS 805.4.2)

Building Construction

Energy Efficiency Requirements

Climate Zone: 6A

Insulation and Fenestration Requirements by Component (ECCNYS Table R402.1.4)

fenestration U-Factor: 0.30 maximum

skylight U-Factor: 0.55 maximum

glazed fenestration SHGC: NR

ceiling R-Value: R-49 minimum

wood frame wall R-Value: 13 cavity + 10 continuous min

mass wall R-Value: R-15/20 minimum

floor R-Value: R-30 minimum

basement wall R-Value: R-15/19 minimum

slab R-Value & depth: R-10, 4 ft minimum

crawl space wall R-value: R-15/19 minimum

Accessibility Reqs

Dwelling & Sleeping Units

X

a multistory dwelling unit that is not provided with elevator service is not required to be a Type B unit

NYS Sanitary Code Pt 15

15.6(d) Sleeping Quarters

(1) 50 sf of floor area per occupant required

Space

Occupants

Area Required

Area Provided

bedroom 01

1

50 sf

96 sf

bedroom 02

2

100 sf

101 sf

bedroom 03

2

100 sf

100 sf

(4) 21 sf of wall storage minimum 12" deep area required per occupant

See furniture plan on A-820.

15.6(h) Fire Extinguishing Equip

A minimum of type 2A rated fire extinguisher shall be provided in a readily accessible location not more than 100'-0" feet from each housing unit. In addition, a minimum of a type 5BC rated extinguisher shall be provided within 30'-0" of all rooms containing cooking facilities. Any extinguisher with an equivalent A-B-C rating may be provided.

15.8 Toilet Requirements

minimum 1 toilet required per 15 occupants and 1 urinal per 30 men

Space

Occupants

Toilets Required

Toilets Provided

Urinals Required

Urinals Provided

unit 1

5

1

1

0 (dwelling unit)

0

15.10 Food Preparation Requirements

minimum 2 stove burners per 5 occupants required

Space

Occupants

Burners Required

Burners Provided

unit 1

5

2

4

15.12 Laundry & Bathing Requirements

(a) 1 shower head required per 15 occupants

Space

Occupants

Heads Required

Heads Provided

unit 1

5

1

1

(b) 1 mechanical washer required per 50 occupants

Space

Occupants

Washers Required

Washers Provided

unit 1

5

1

1 (sink provided)

(c) 1 lavatory required per 15 occupants

Space

Occupants

Lavatories Required

Lavatories Provided

unit 1

5

1

1

Floor 2 Egress Plan

Scale: 1/8" = 1'-0"

FIREHOUSE

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G-002.00

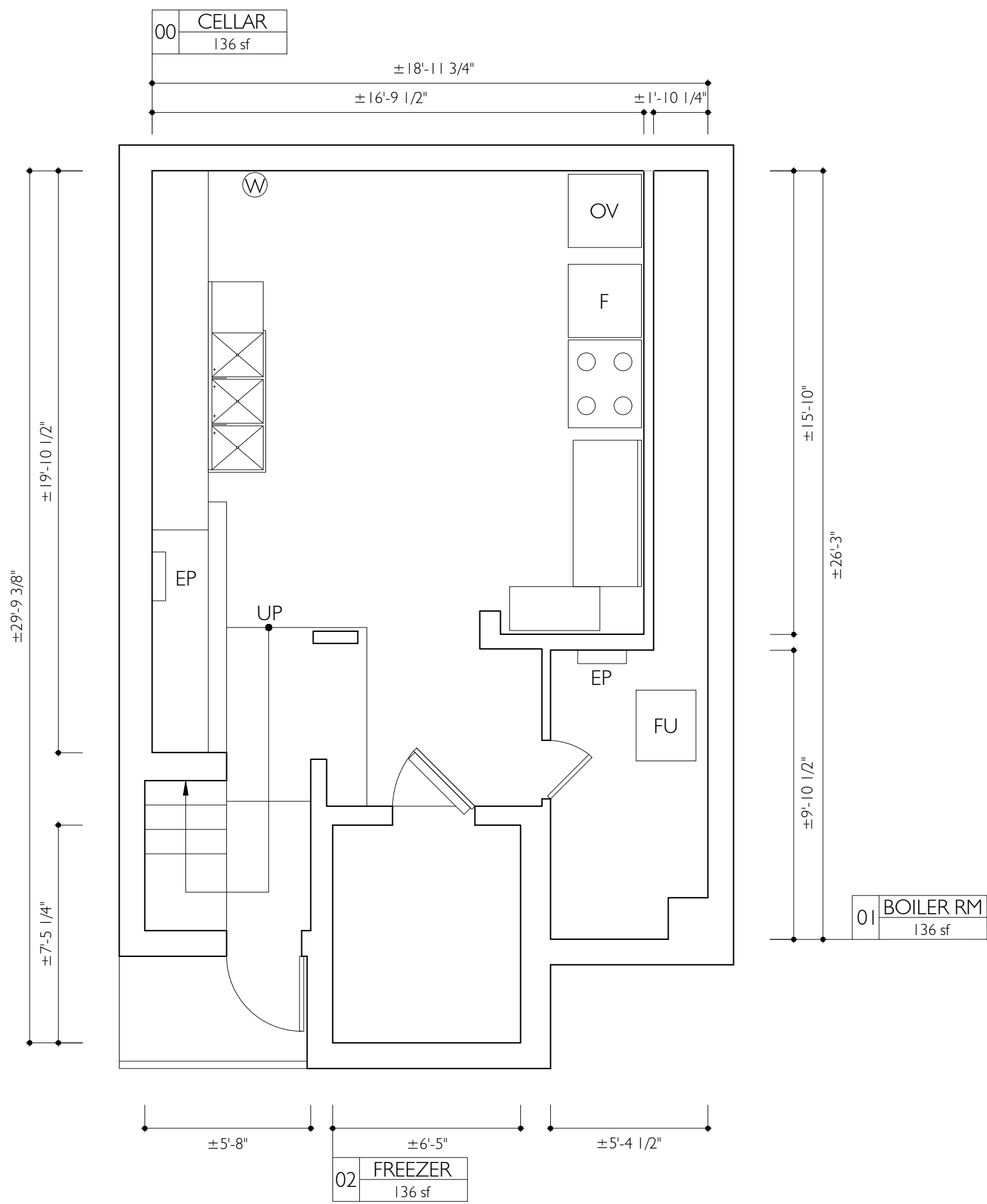
Code Analysis + Egress Plans

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FIREHOUSE

LEGEND

ABBREVIATIONS
FU furnace
EP electrical panel
F refrigerator
OV oven
W water meter
± verify in field



Existing Cellar Plan
Scale: 1/4" = 1'-0"

NOTE: NO WORK AT
CELLAR LEVEL

ISSUES:

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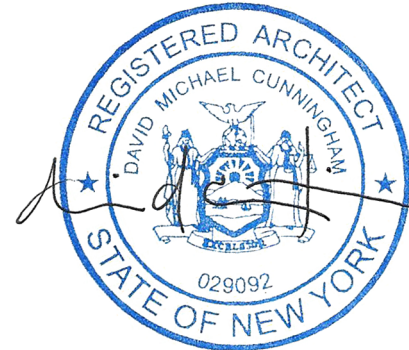
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A-100.00

Existing Cellar Plan

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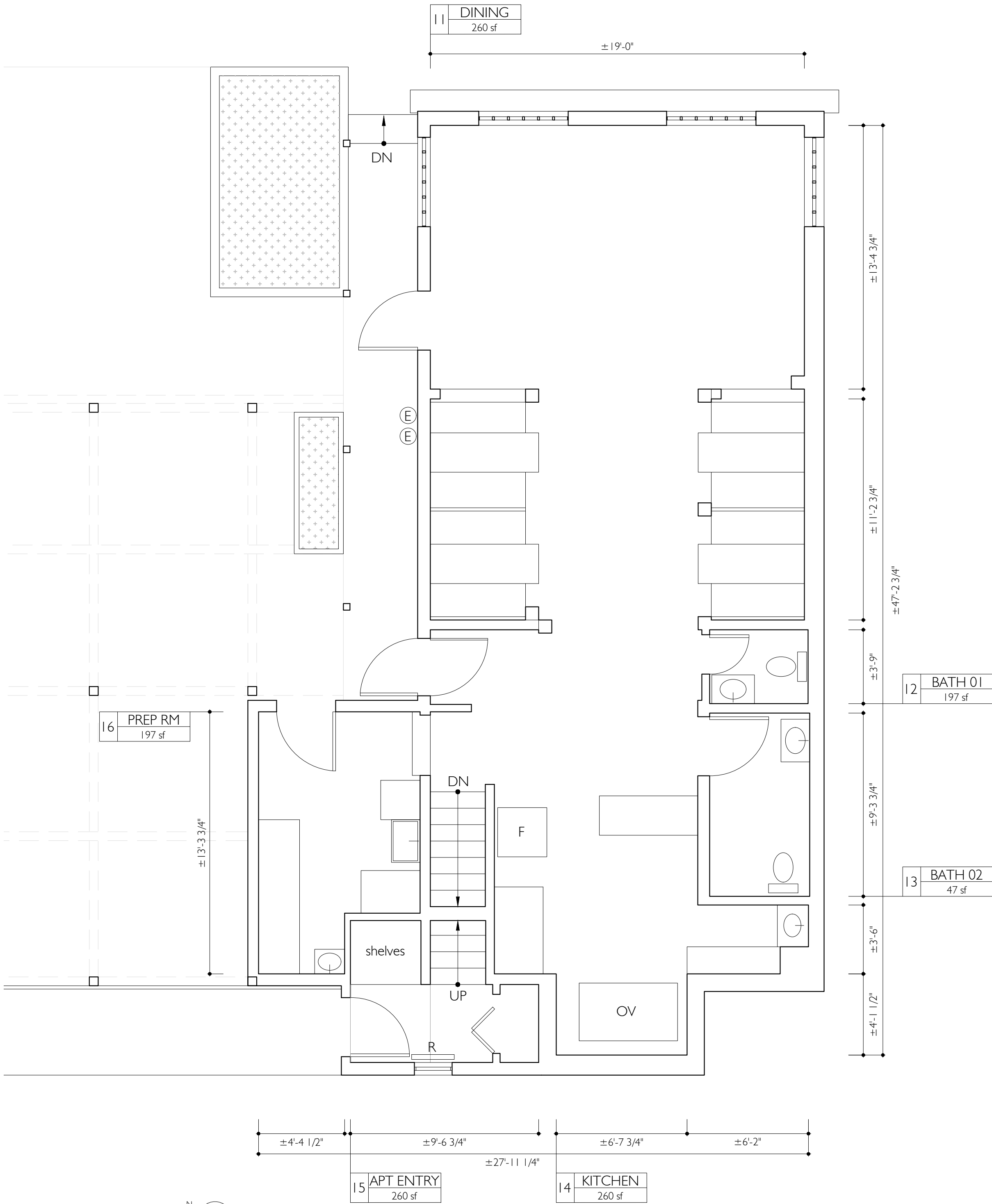
FIREHOUSE

LEGEND

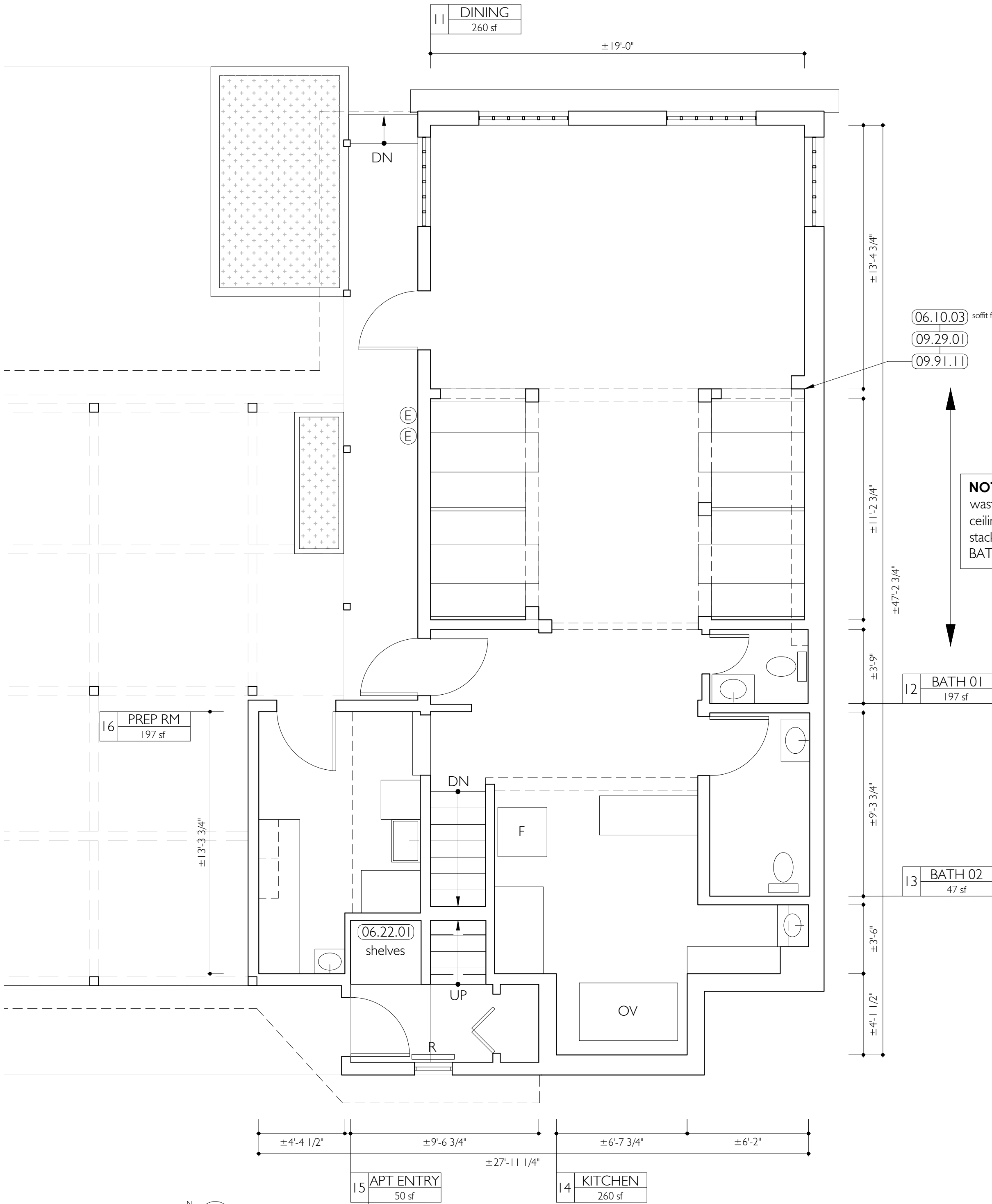
- remove item (demo)
- indicates above (proposed)
- planter

ABBREVIATIONS

- E electrical meter
- F refrigerator
- OV oven
- WM water meter
- ± verify in field



Existing Floor I Plan
Scale: 1/4" = 1'-0"



Proposed Floor I Plan
Scale: 1/4" = 1'-0"

KEY NOTES

- 06.10.03 2x rough carpentry (No. 1 or better)
- 06.22.01 closet shelf
- 06.46.02 1x4 wood casing, clear pine flat stock poly finish
- 06.46.12 1x6 wood wall base, clear pine flat stock, poly finish
- 06.22.01 closet shelf
- 09.29.01 5/8" interior G.W.B per schedule
- 09.64.02 wood floor, 3" white oak strip
- 09.91.11 paint, interior, wall
- 09.91.12 paint, interior, trim
- 09.91.13 paint, interior, ceiling
- 26.50.01 light fixture (refer to A-600 lighting and A-720 RCP)

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ESSEX FARM WORKER HOUSING

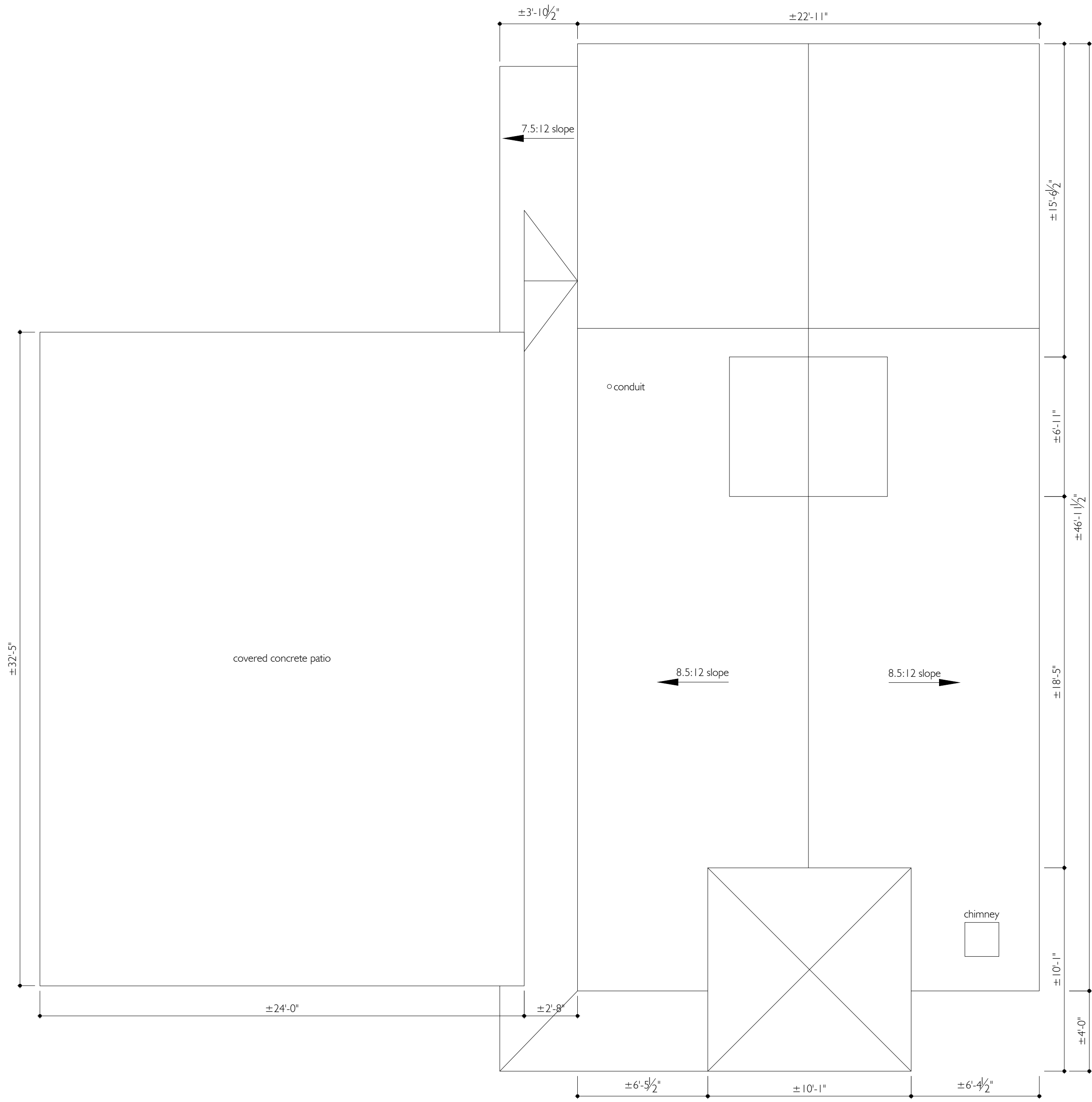
Firehouse
6513 Main St.
Westport NY 12993

A-110.00

Demo + Proposed Floor I Plans

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Existing Roof Plan
Scale: 1/4" = 1'-0"



**NOTE: NO WORK AT
ROOF LEVEL**

FIREHOUSE

ABBREVIATIONS
± verify in field

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ESSEX FARM WORKER HOUSING
Firehouse
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A-130.00
Existing Roof Plan
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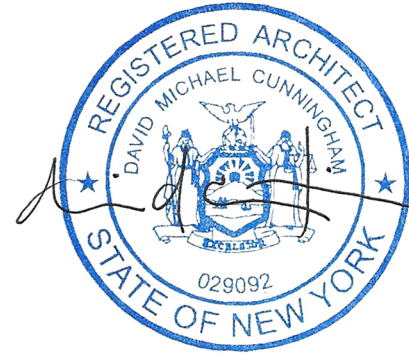




Existing East Elevation
Scale: 1/4" = 1'-0"

**NOTE:
FOR REFERENCE ONLY.
NO EXTERIOR WORK
PROPOSED.**

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A-200.00
Existing East Elevation
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Existing North Elevation
Scale: 1/4" = 1'-0"

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PROPOSED.**

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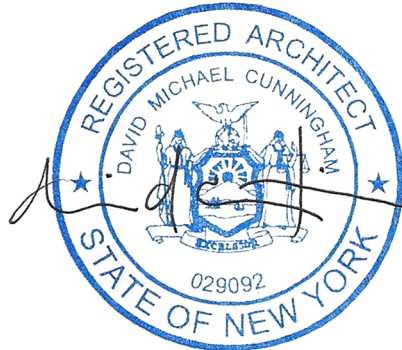
ESSEX FARM WORKER HOUSING

Firehouse
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A-210.00

Existing North Elevation

SEAL | SIGNATURE:





Existing West Elevation
Scale: 1/4" = 1'-0"

**NOTE:
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NO EXTERIOR WORK
PROPOSED.**

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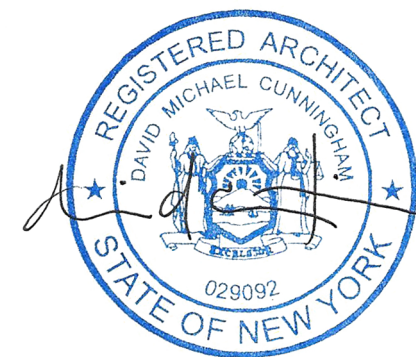
ESSEX FARM WORKER HOUSING

Firehouse
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Westport NY 12993

A-220.00

Existing West Elevation

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Proposed South Elevation
Scale: 1/4" = 1'-0"

**NOTE:
FOR REFERENCE ONLY.
NO EXTERIOR WORK
PROPOSED.**

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ESSEX FARM WORKER HOUSING
Firehouse
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A-230.00

Existing South Elevation

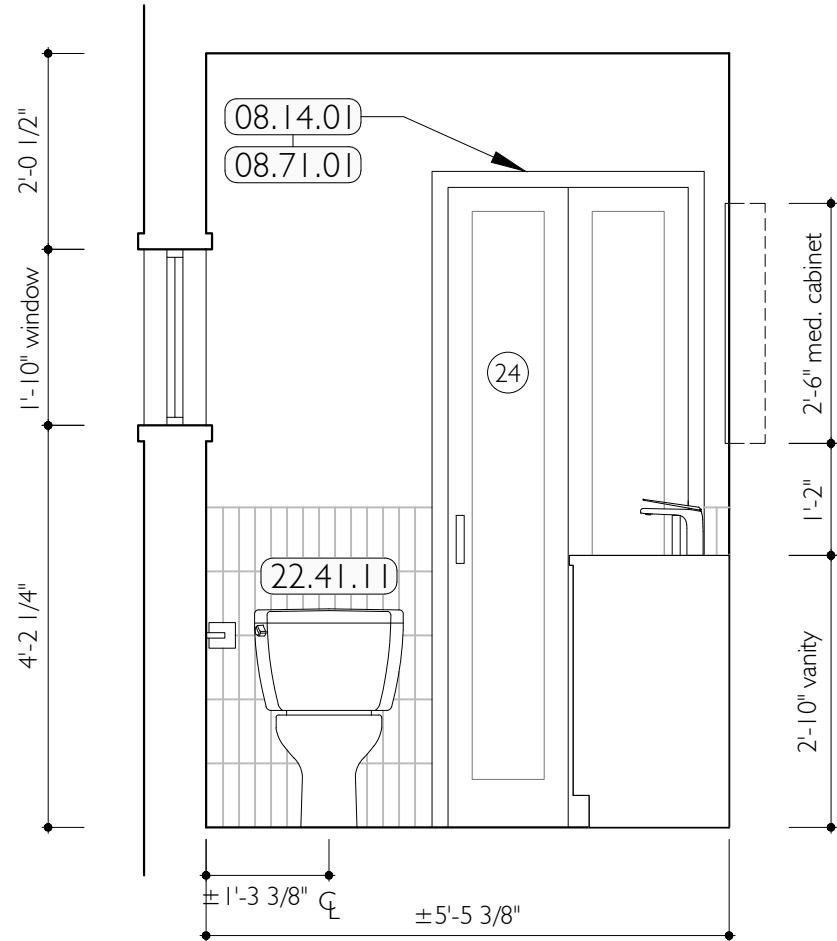
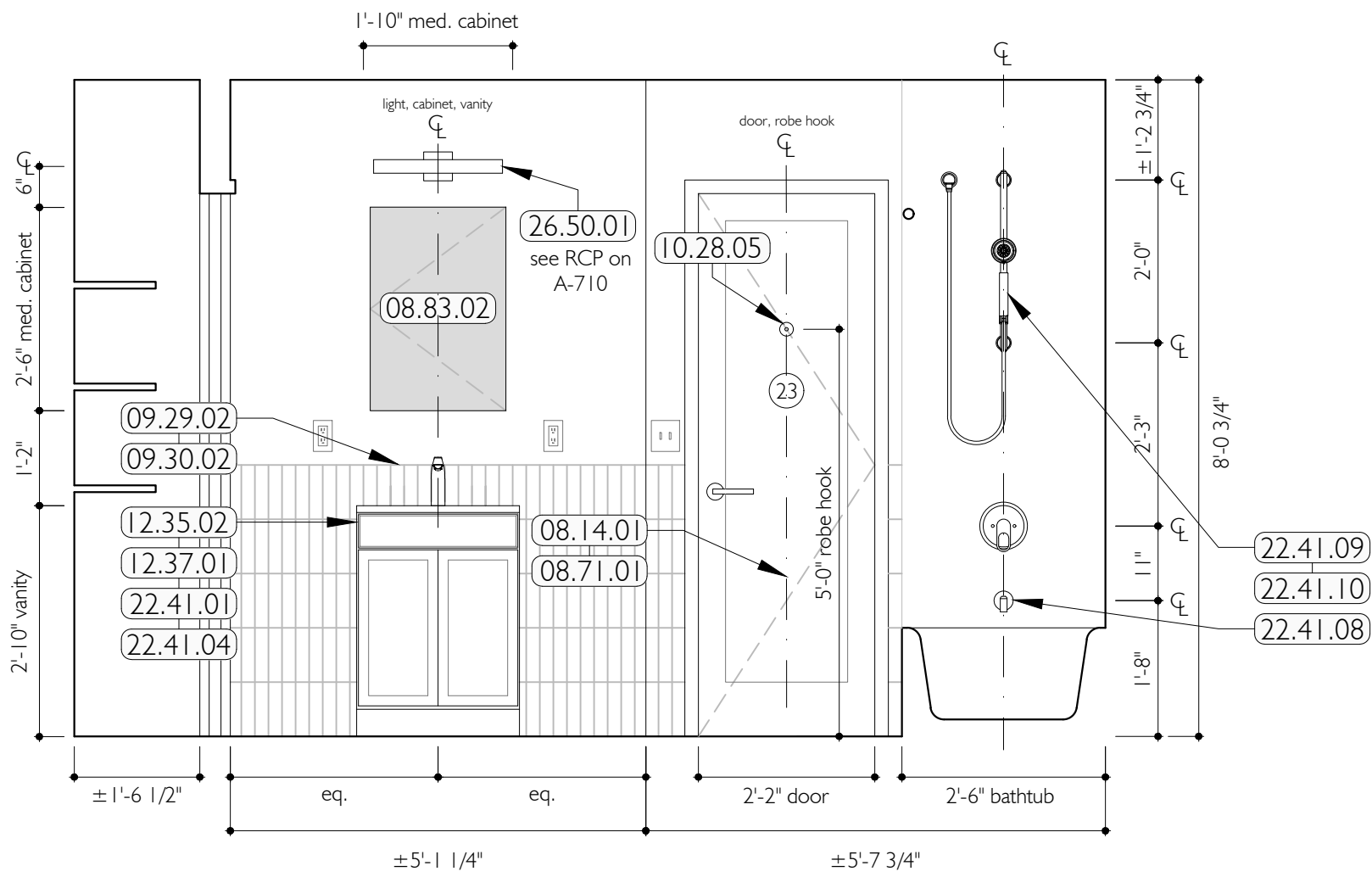
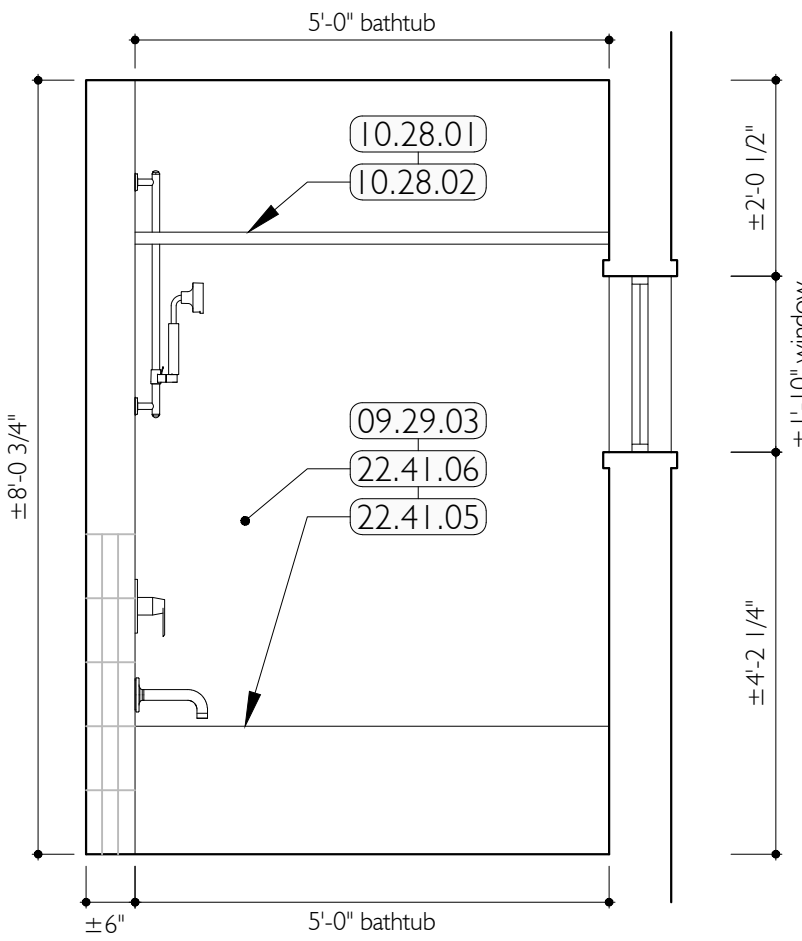
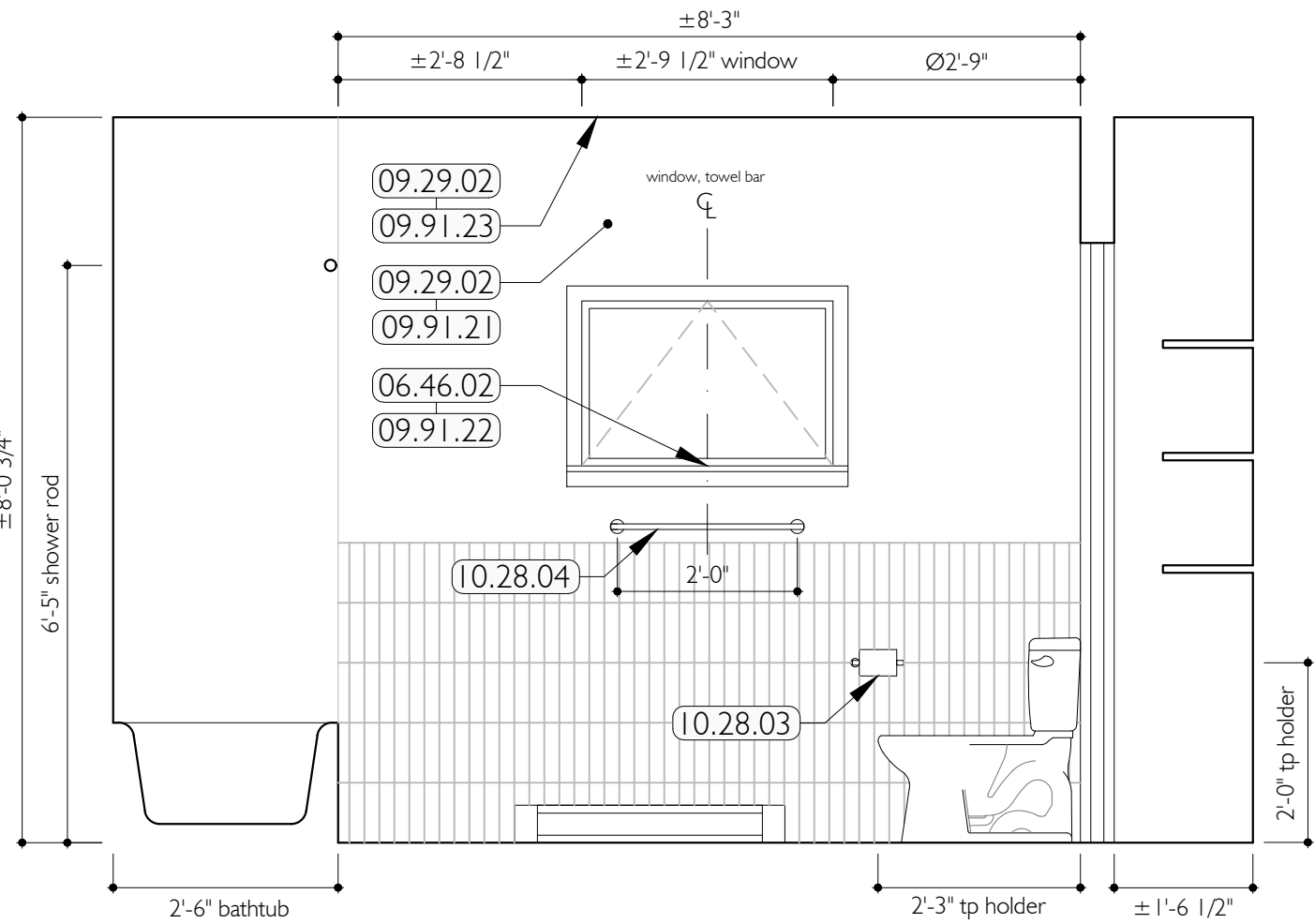
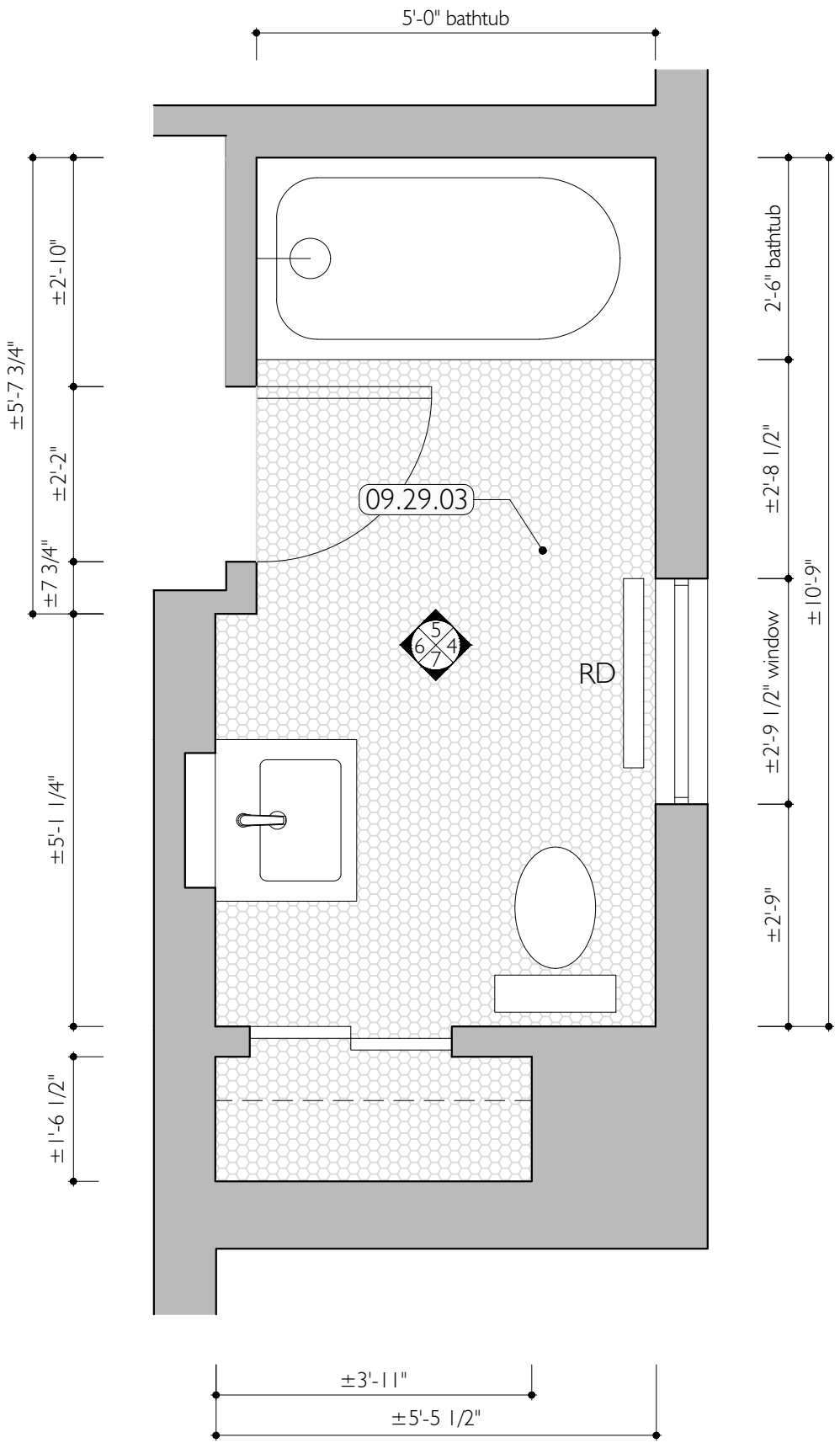
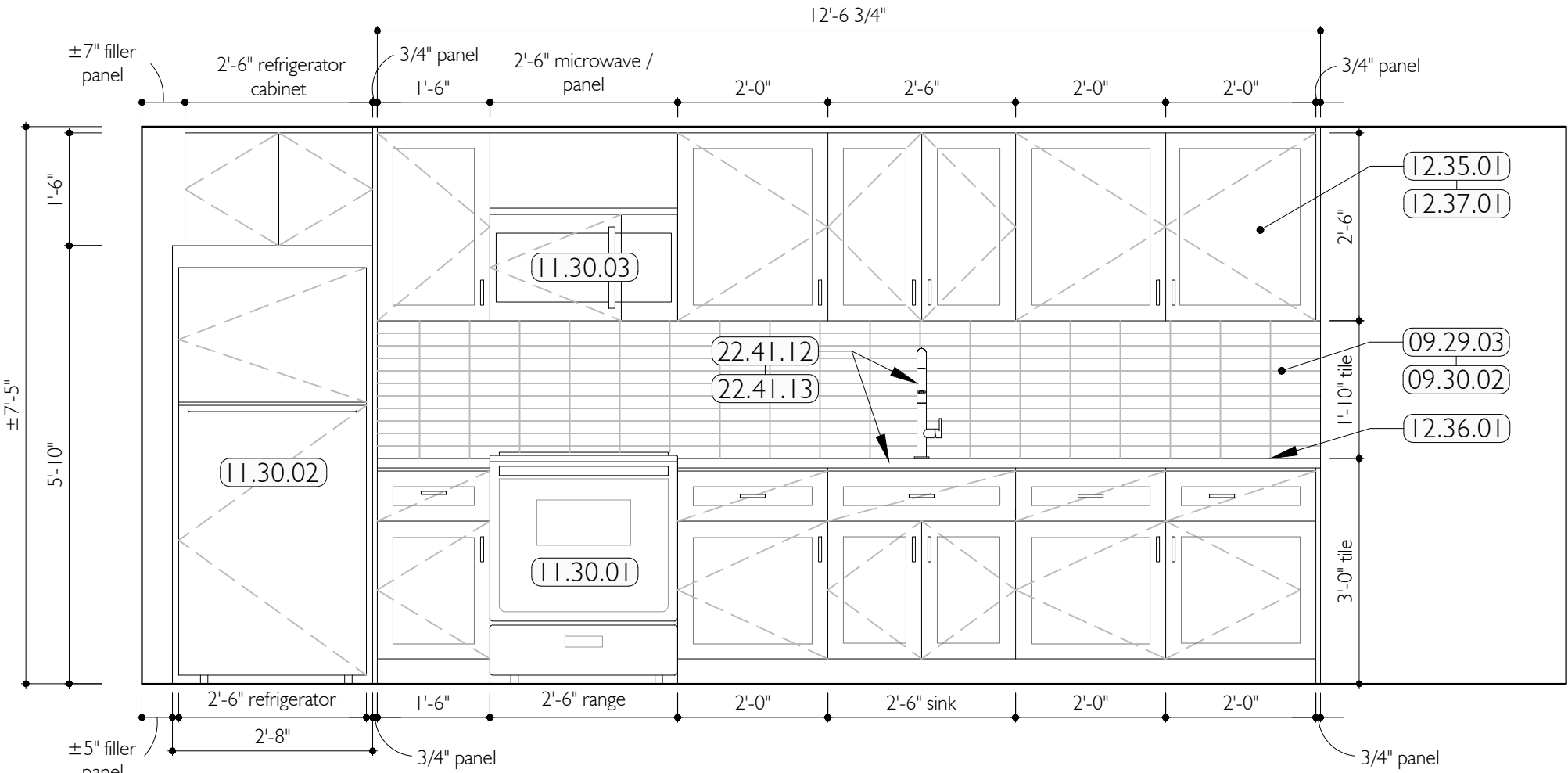
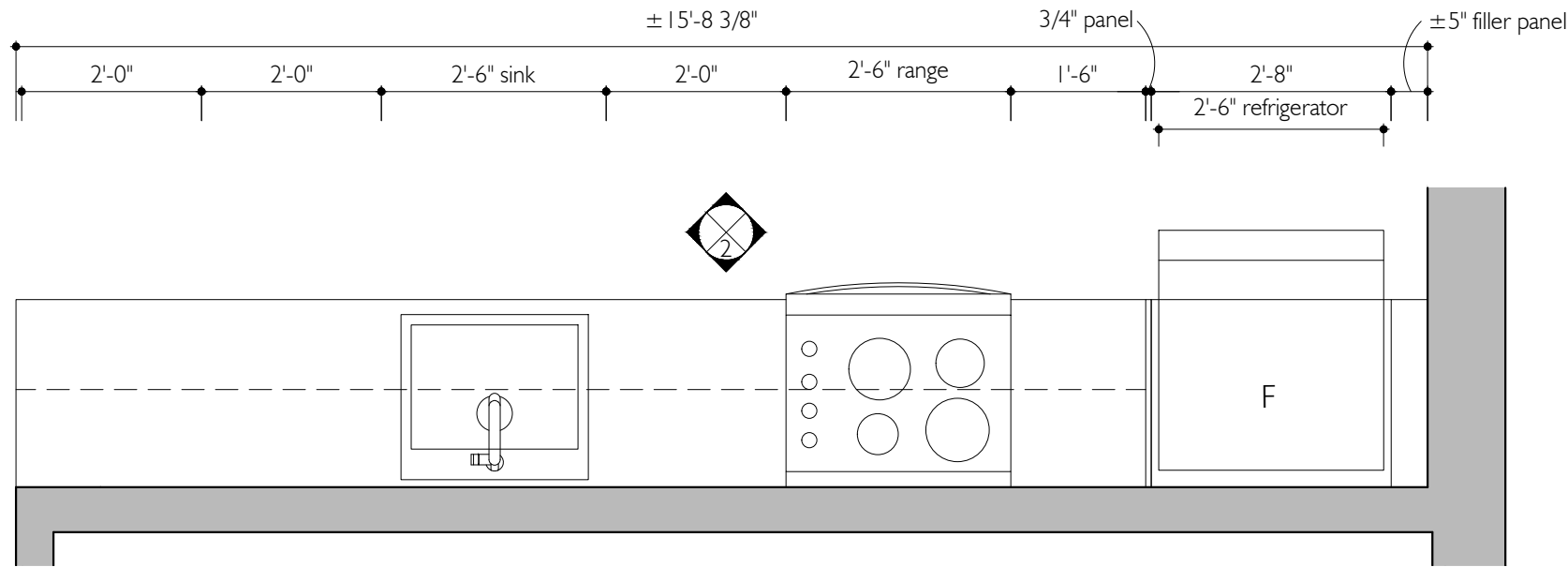
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FIREHOUSE

ABBREVIATIONS

MW microwave
F refrigerator
RD radiator
± verify in field



KEY NOTES

- 06.46.02 1x4 wood casing, clear pine flat stock, polyurethane finish
- 08.14.01 solid wood doors, trusslite (refer to A-610 door schedule)
- 08.71.01 Door hardware (refer to A-610)
- 08.83.02 Mirrored medicine cabinet, 20" x 40" (refer to A-600 Bathroom Schedule)
- 09.29.02 5/8" interior moisture, mold, and mildew resistant board
- 09.29.03 5/8" interior cementitious backer board
- 09.30.01 Ceramic tile, 2" hexagon
- 09.30.02 Ceramic tile, 2" x 8" subway
- 09.91.21 Paint, interior bathroom, wall
- 09.91.22 Paint, interior bathroom, trim

- 09.91.23 Paint, interior bathroom, ceiling
- 10.28.01 Shower curtain rod (refer to A-600 Bathroom Schedule)
- 10.28.02 Shower curtain (refer to A-600 Bathroom Schedule)
- 10.28.03 Toilet paper holder (refer to A-600 Bathroom Schedule)
- 10.28.04 Towel bar, 24" (refer to A-600 Bathroom Schedule)
- 10.28.05 Robe hook (refer to A-600 Bathroom Schedule)
- 11.30.01 Range (refer to A-600 Kitchen Schedule)
- 11.30.02 Refrigerator (refer to A-600 Kitchen Schedule)
- 11.30.03 Microwave over range (refer to A-600

- 12.35.01 Kitchen cabinet (refer to A-600 Kitchen Schedule)
- 12.35.02 Bathroom vanity cabinet, 30" wide (refer to A-600 Bathroom Schedule)
- 12.35.03 Medicine cabinet, 20" x 30" (refer to A-600 Bathroom Schedule)
- 12.36.01 Countertop (refer to A-600 Bathroom or Kitchen Schedule)
- 12.37.01 Cabinet hardware (refer to A-600 Bathroom or Kitchen Schedule)
- 22.41.01 Lavatory undermount sink (refer to A-600 Plumbing Schedule)
- 22.41.04 Lavatory faucet (refer to A-600 Plumbing Schedule)

- 22.41.05 Bathtub (refer to A-600 Plumbing Schedule)
- 22.41.06 Bathtub surround (refer to A-600 Plumbing Schedule)
- 22.41.08 Bathtub spout (refer to A-600 Plumbing Schedule)
- 22.41.09 Shower system (refer to A-600 Plumbing Schedule)
- 22.41.10 Shower rough (refer to A-600 Plumbing Schedule)
- 22.41.11 Toilet (refer to A-600 Plumbing Schedule)
- 22.41.12 Kitchen undermount sink (refer to A-600 Plumbing Schedule)
- 22.41.13 Kitchen faucet (refer to A-600 Plumbing Schedule)
- 26.50.01 Light fixture (refer to A-600 Lighting Schedule and A-720 RCP)

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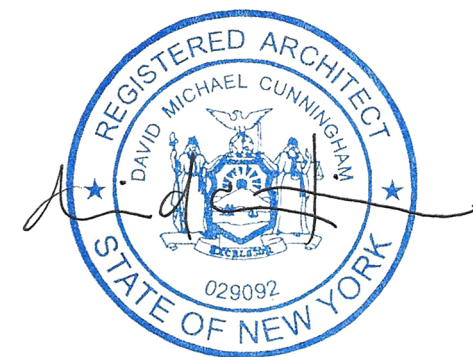
ESSEX FARM WORKER HOUSING

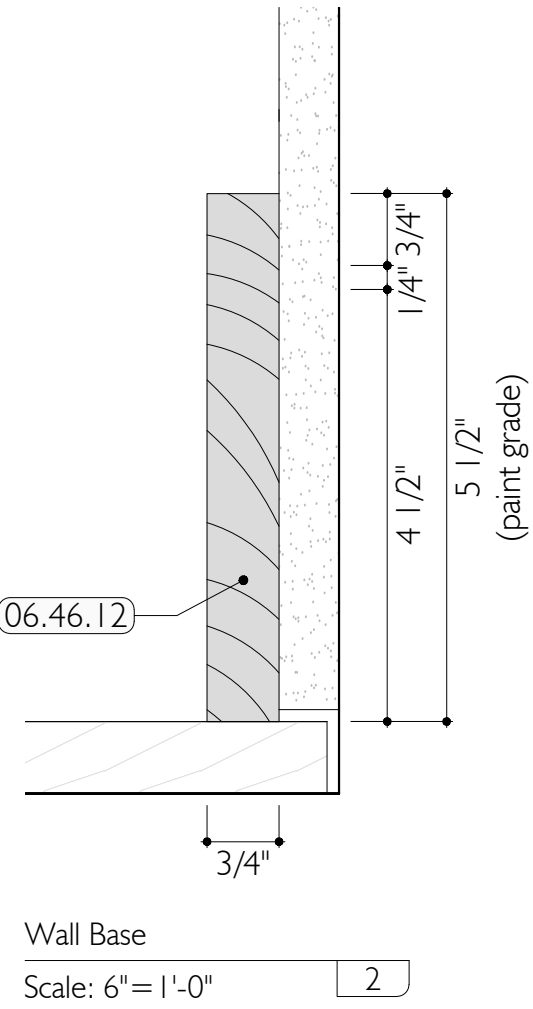
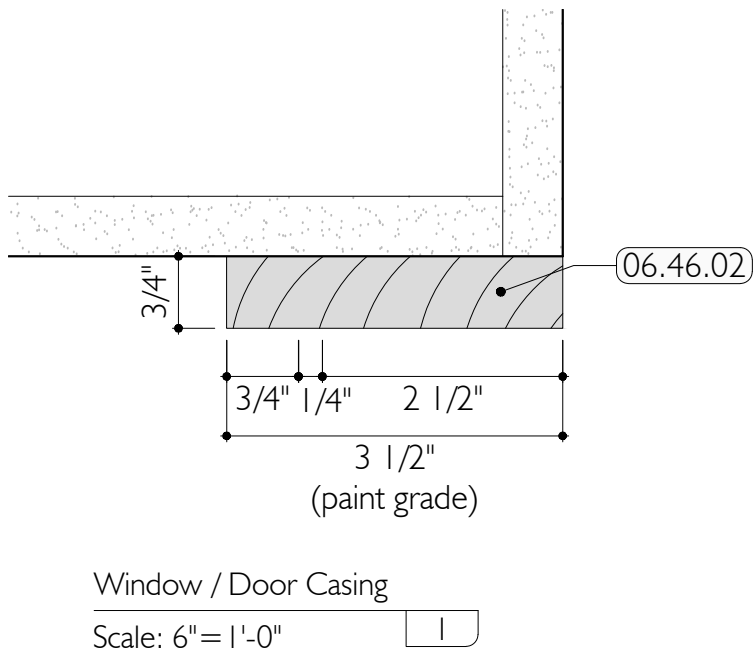
Firehouse
6513 Main St.
Westport NY 12993

A-400

INTERIOR ELEVS + PLANS

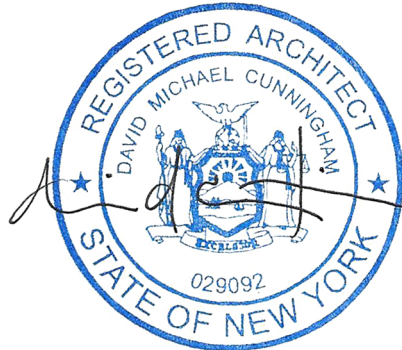
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- KEY NOTES**
- 06.46.02 1 x 4 wood casing, clear pine flat stock, polyurethane finish (refer to A-550 for Casing Details)
 - 06.46.12 1 x 6 wood wall base, clear pine flat stock, poly finish (refer to A-550 for Wall Base Details)

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A-550		
INTERIOR DETAILS		
SEAL SIGNATURE:		



PLAN DIMENSION 5"

CLNG

PLAN

FLOOR

4 3/4"

- BOTTOM OF STRUCTURE
- 2 x 4 WOOD TOP PLATE
- ACOUSTIC CAULK BOTH SIDES

- 5/8" G.W.B. / TAPE JOINTS
- 2 x 4 WOOD STUDS @ 16" O.C
- 5/8" G.W.B. / TAPE JOINTS

- 2 x 4 SOLE PLATE
- ACOUSTIC CAULK BOTH SIDES
- TOP OF STRUCTURE

STANDARD PARTITION NON-RATED NON-LOAD-BEARING	A.0	TYPICAL
	A.1	<ul style="list-style-type: none">5/8" MOISTURE / MILDEW / MOLD RESISTANT BOARD, SUBSTITUTE ONE LAYER ONE SIDEOPTIONAL THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)
	A.2	<ul style="list-style-type: none">5/8" CEMENTITIOUS BACKER UNIT SUBSTITUTE ONE LAYER ONE SIDELIQUID APPLIED WATER PROOFING (DASHED LINES)THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)

PLAN DIMENSION 2"

CLNG

PLAN

FLOOR

2 1/8"

- BOTTOM OF STRUCTURE
- AIR BARRIER TO TERMINATE AT STRUCTURE
- 2 x 3 FURRING STRIP
- ACOUSTIC CAULK BOTH SIDES

- EXISTING EXTERIOR WOOD STUD WALL AND INSULATION TO REMAIN (SHOWN IN GREY)
- AIR BARRIER
- 2 x 3 HORIZONTAL FURRING STRIPS @ 16" O.C
- 5/8" G.W.B. / TAPE JOINTS

- ACOUSTIC CAULK BOTH SIDES
- 2 x 3 FURRING STRIP
- AIR BARRIER TO TERMINATE AT STRUCTURE
- TOP OF STRUCTURE

AIR BARRIER PARTITION NON-RATED NON-LOAD-BEARING	Q.0	TYPICAL
	Q.1	<ul style="list-style-type: none">5/8" MOISTURE / MILDEW / MOLD RESISTANT BOARD, SUBSTITUTE FOR G.W.B.OPTIONAL THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)
	Q.2	<ul style="list-style-type: none">5/8" CEMENTITIOUS BACKER UNIT SUBSTITUTE FOR G.W.B.LIQUID APPLIED WATER PROOFING (DASHED LINES)THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)

PLAN DIMENSION 1"

CLNG

PLAN

FLOOR

5/8"

- BOTTOM OF STRUCTURE
- AIR BARRIER TO TERMINATE AT STRUCTURE
- ACOUSTIC CAULK BOTH SIDES

- EXISTING EXTERIOR WOOD STUD WALL AND INSULATION TO REMAIN (SHOWN IN GREY)
- AIR BARRIER
- 5/8" G.W.B. / TAPE JOINTS

- ACOUSTIC CAULK BOTH SIDES
- AIR BARRIER TO TERMINATE AT STRUCTURE
- TOP OF STRUCTURE

AIR BARRIER PARTITION NON-RATED NON-LOAD-BEARING	R.0	TYPICAL, LESS FURRING STRIPS / SERVICE CAVITY
	R.1	<ul style="list-style-type: none">5/8" MOISTURE / MILDEW / MOLD RESISTANT BOARD, SUBSTITUTE FOR G.W.B.OPTIONAL THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)
	R.2	<ul style="list-style-type: none">5/8" CEMENTITIOUS BACKER UNIT SUBSTITUTE FOR G.W.B.LIQUID APPLIED WATER PROOFING (DASHED LINES)THINSET MORTAR / TILE PER SCHEDULE (DASHED LINES)

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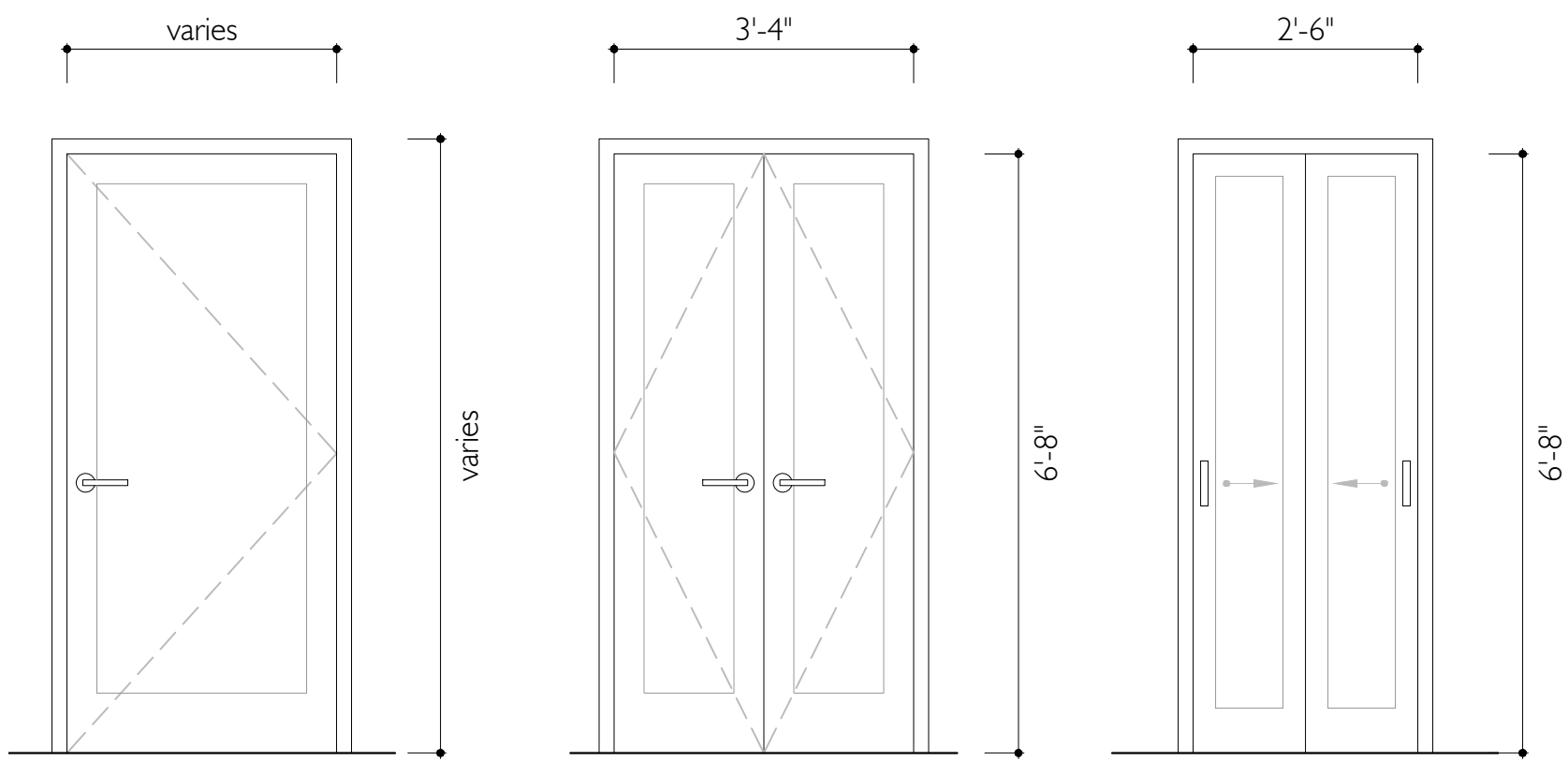
PARTITION TYPES
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FIREHOUSE

SCHEDULE NOTES

- All keynotes to be as specified (or approved equal). See project manual for additional information.
- All exterior, interior, and bathroom paint to be Benjamin Moore Aura: Exterior, Interior, and Bath + Spa (respectively).



TYPE A interior door

TYPE A.2 interior door

TYPE B bypass sliding doors

Door Types

Scale: 1/2" = 1'-0"

DOOR SCHEDULE										
BASIC			DESCRIPTION	DIMENSIONS			MATERIAL	FRAME	FINISH	HARDWARE SET #
#	type	quantity		thickness	width	height				
21	A	1	closet	1 3/8"	2'-2"	6'-8"	wood	wood	paint grade	TruStile
22	A	1	bedroom 01	1 3/8"	3'-0"	6'-8"	wood	wood	paint grade	TruStile
23	A	1	bathroom	1 3/8"	2'-2"	6'-8"	wood	wood	paint grade	TruStile
24	B	1	closet	1 3/8"	2'-6"	6'-8"	wood	wood	paint grade	TruStile
25	A	1	bedroom 02	1 3/8"	3'-0"	6'-8"	wood	wood	paint grade	TruStile
26	A.2	1	closet	1 3/8"	3'-4"	6'-8"	wood	wood	paint grade	TruStile
27	A	1	bedroom 03	1 3/8"	3'-0"	6'-8"	wood	wood	paint grade	TruStile
28	A.2	1	closet	1 3/8"	3'-4"	6'-8"	wood	wood	paint grade	TruStile
1. Interior doors to be TruStile solid wood doors or approved equal.										4
2. All hardware shall be Omnia levers with satin chrome finish. Provide privacy locks at all bathrooms and bedrooms.										2
3. General contractor to provide door shop drawings and schedule for review and approval by architect and owner prior to ordering.										2
										3

HARDWARE SETS SCHEDULE					
QTY	DESCRIPTION	MANUFACTURER	MODEL	FINISH	
SET #2: BEDROOM / BATHROOM DOOR					
3	Hinges	Omnia	985BB/4BTN	satin chrome	
1	Privacy Lever		912MD/X234F, PR26D		
1	Faceplate / Strikeplate				
1	Door Stop (half-dome)	Baldwin	4000	satin nickel	
SET #3: CLOSET - DOUBLE DOOR					
6	Hinges	Omnia	985BB/4BTN	satin chrome	
2	Dummy Lever		912MD/R,SD15		
1	Magnetic Catch	Don-Jo	1724		
2	Door Stop (half-dome)	Baldwin	4000	satin nickel	
SET #4: CLOSET - SINGLE DOOR					
3	Hinges	Omnia	985BB/4BTN	satin chrome	
1	Passage Lever		912MD/X234F, PA26D		
1	Faceplate / Strikeplate				
1	Door Stop (half-dome)	Baldwin	4000	satin nickel	
SET #5: CLOSET - DOUBLE BYPASS SLIDING DOORS					
6	Hinges	Omnia	985BB/4BTN	satin chrome	
2	Flushcup Pulls		7035 / 0.26D		
1	Bypass Sliding Bypass Track and Hardware	National Hardware	N343-061		

PLUMBING SCHEDULE							
KEYNOTE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	SIZE	QTY	NOTES
22.41.01	Lavatory undermount sink	American Standard	0614.000	white	18"W x 12" L x 6 7/8" D	1	
22.41.04	Lavatory faucet	American Standard	7105121	polished chrome	7" H	1	WaterSense, ADA
22.41.05	Bathtub	American Standard	2946.102 or 2946.202	white	60" L x 32" W x 18" H	1	
22.41.06	Bathtub surround	American Standard	2946.BW	white	58" H	1	
22.41.08	Bathtub spout	American Standard	8888.022.002	polished chrome		1	
22.41.09	Shower system	American Standard	TU662221.002	polished chrome		1	slidebar with handshower system
22.41.10	Shower rough	American Standard	RU101SS			1	
22.41.11	Toilet	American Standard	2988.101	white		1	WaterSense, ADA
22.41.12	Kitchen undermount sink	American Standard	185B6252211.075	stainless steel	28" W x 22" L x 6" D	1	ADA, 29" min cabinet required
22.41.13	Kitchen faucet	American Standard	4931.300	polished chrome	17-6/16" H	1	ADA, single deck mount

BATHROOM SCHEDULE							
KEYNOTE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	SIZE	QTY	NOTES
08.83.02	Mirrored medicine cabinet	Kohler	K-99002	aluminum	20" W x 30" H	1	recessed, soft close hinges
12.35.02	Bathroom vanity cabinet	KOB Kitchen and Bath	Stock cabinets	Gray Shaker	24" W x 33" H x 21"D	1	soft close hinges
12.37.01	Cabinet hardware	KOB Kitchen and Bath		polished chrome	4" pull	1	
12.36.01	Countertop	IceStone	QuartzStone	snowflake	1" thick		
10.28.01	Shower curtain rod	Kohler	K-9351-S	polished steel	20" W x 30" H	1	
10.28.02	Shower curtain						
10.28.03	Toilet paper holder	Kohler	K-27292-CP	polished chrome		1	
10.28.04	Towel bar, 24"	Kohler	K-27287-CP	polished chrome	24"	1	
10.28.05	Robe hook	Kohler	K-27290-CP	polished chrome	20" W x 30" H	1	

KITCHEN SCHEDULE							
KEYNOTE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	SIZE	QTY	NOTES
12.35.01	Kitchen upper cabinets	KOB Kitchen and Bath	Stock cabinets	Gray Shaker		1	soft close hinges and runners
	Kitchen base cabinets	KOB Kitchen and Bath	Stock cabinets	Gray Shaker		1	soft close hinges and runners
12.37.01	Cabinet hardware	KOB Kitchen and Bath		polished chrome	4" pull	1	
12.36.01	Countertop	IceStone	QuartzStone	snowflake	1" thick		
11.30.01	Range	General Electric	PHS930YFPS	stainless steel	30" W	1	slide in, induction range
11.30.02	Refrigerator	General Electric	GTE19JNRRSS	stainless steel	30" W	1	
11.30.03	Microwave	General Electric	JVM6172DKBB	stainless steel	30" W	1	microwave over range, vented to exterior

FURNITURE SCHEDULE							
KEYNOTE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	SIZE	QTY	NOTES
12.58.01	Bed Frame - Twin XL	Ecologic: Academy	40-43680	rubberwood, steel	36"W x 80"D	2	Headboard and Footboard, Steel Tubular Platform
12.58.02	Bed Frame - Full XL	Ecologic: Academy	40-45480	rubberwood, steel	60"W x 80"D	1	Headboard and Footboard, Steel Tubular Platform
12.58.03	Mattress - Twin XL	Ecologic	99-VF-IS-3680	nylon	36"W x 80"L x 8"H	2	Nylon Inverted Seam
12.58.04	Mattress - Full XL	Ecologic	99-VF-IS-5480	nylon	60"W x 80"L x 8"H	1	Nylon Inverted Seam
12.58.07	Sofa	Ecologic: Collins	00-11003-2		80"W x 33"D x 29"H	1	3-Seat
12.58.09	Coffee Table	Ecologic: Pacifica	85-66440-T	engineered hardwood	40"W x 20"D x 18"H	1	
12.58.10	Dining Table	Savoy	5090	oak	60"W x 36"D x 30"H	1	
12.58.11	Chair	Savoy: Metro Chair	917WSB	oak	19" x 22" x 33"	4	
10.57.01	Closet rod						provide blocking as required

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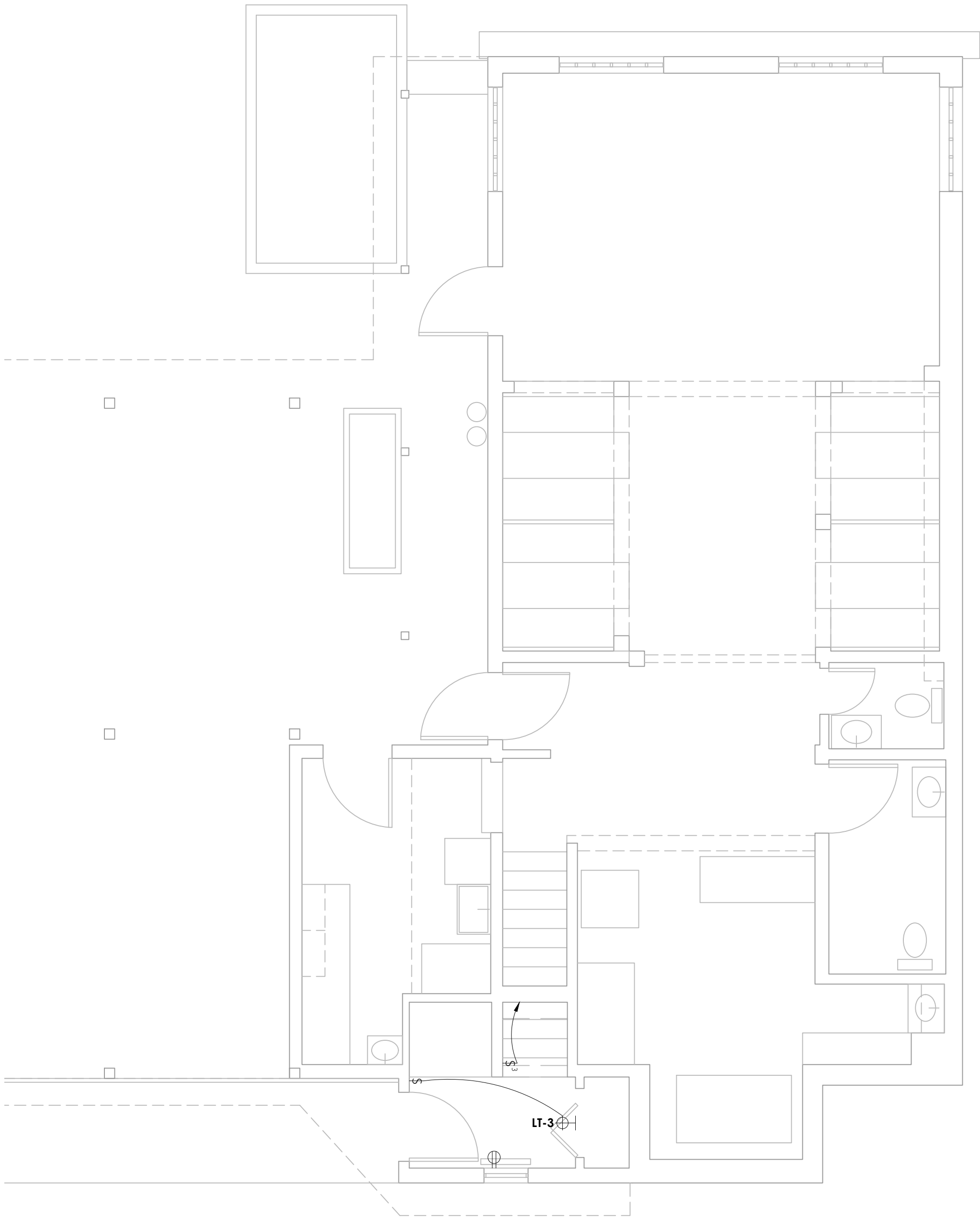
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A-600

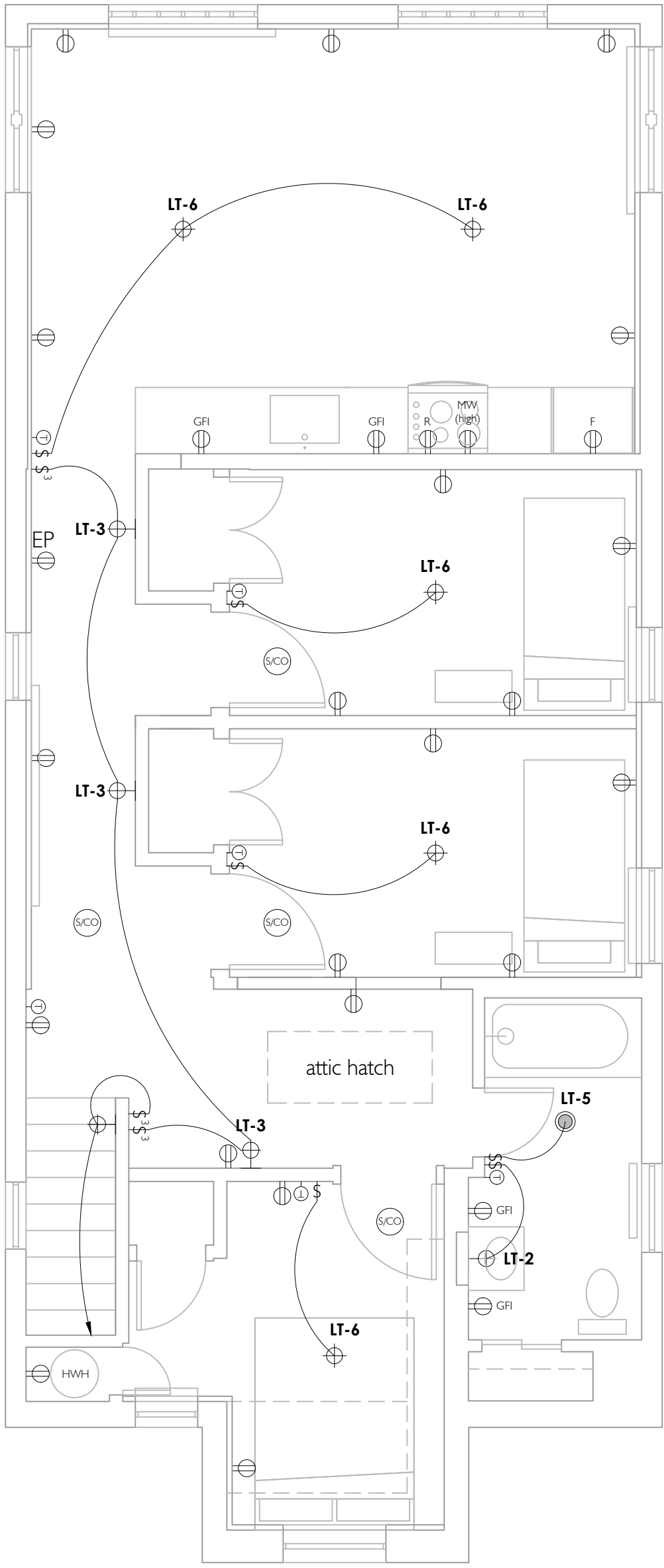
DOOR TYPES AND SCHDEduLES

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Floor 1 RCP
Scale: 1/4" = 1'-0" 1



Floor 2 RCP
Scale: 1/4" = 1'-0" 2

APARTMENT 1: LIGHT FIXTURE SCHEDULE										
SYMBOL	TAG	DESCRIPTION	MANUFACTURER	MODEL	FINISH	WATTS	LAMP	COLOR	QTY	NOTES
	LT-2	bath sconce, interior, 18" bar	MAXIM Spec	52000-SN	satin nickel	12	LED	3000K	1	
	LT-3	wall sconce, interior 11" Ø	MAXIM Trim	57664-WT	white	20	LED	3000K	4	Triac CL dimming
	LT-5	recessed light / fan combo, 4" Ø	BROAN	744LED	white	66/9.5	LED	2700K	1	includes 70cfm exhaust fan
	LT-6	ceiling mount, interior, 16" Ø	BROMIDESIGN Lynch	1661521537	white / silver	allow 50	LED	3000K	5	requires (3) LED A lamps
NOTES: 1. See interior and exterior elevations for switch, outlet, and fixture heights. 2. Center light fixtures in soffits and in rooms unless noted otherwise. 3. Coordinate fixture installation with engineering systems. 4. Coordinate locations of junction boxes for equipment with equipment contractor. Provide gang boxes for all key type switches. Review final locations with the Architect.										

FIREHOUSE

LEGEND

- ceiling mounted light
- recessed light
- ceiling fan
- wall mounted light
- linear light
- radiant flooring
- duplex outlet
- USB / outlet combo
- quad outlet
- floor outlet
- switch
- 3 way switch
- dimmer switch
- electrical panel
- smoke / CO detector
- intercom
- security camera
- thermostat
- telephone
- TV / data
- coaxial cable
- doorbell
- exit sign

ABBREVIATIONS

- DN down
- F refrigerator
- GFI ground fault interrupt
- HWH hot water heater
- R range
- MW microwave

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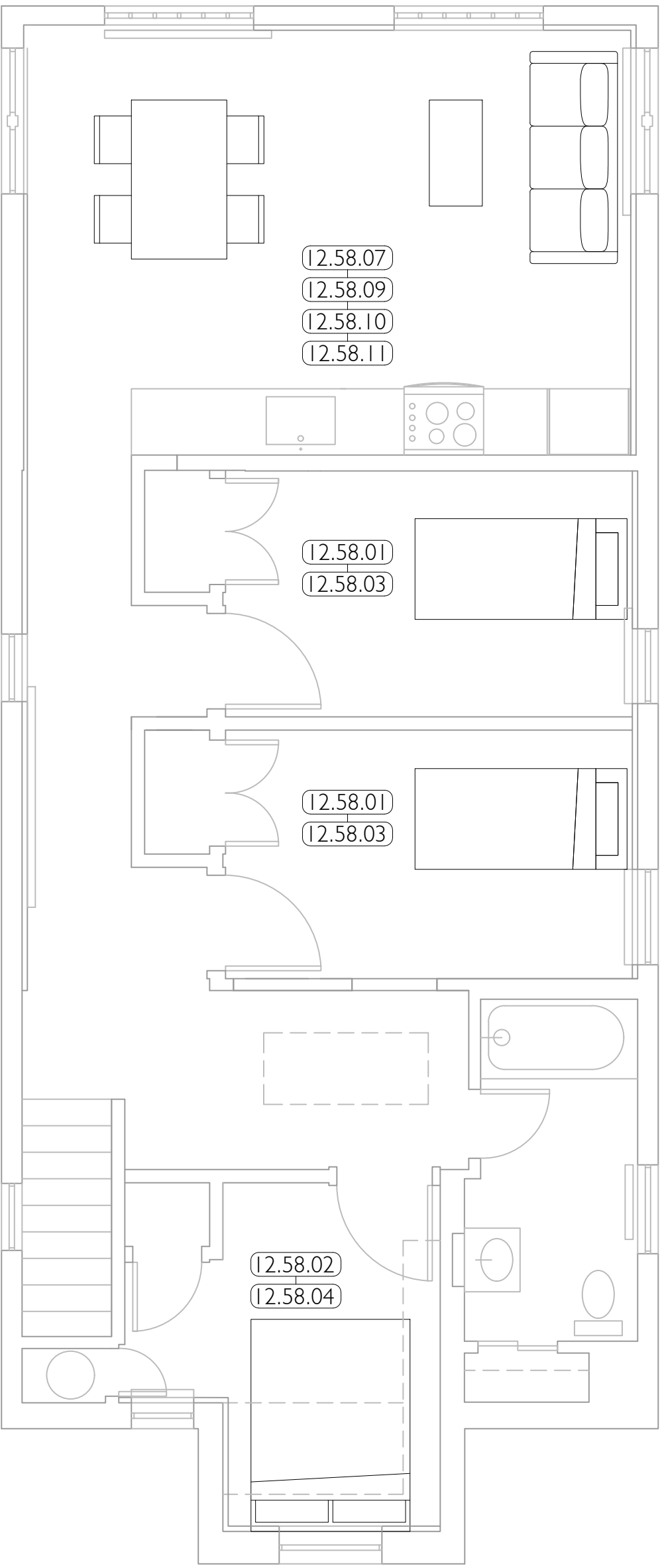
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A-710.00

Proposed Floor 1 + 2 RCPs

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Floor 2 Furniture Plan
Scale: 1/4" = 1'-0"

1

KEY NOTES
(refer to A-600 Furniture Schedule)

- 12.58.01 Bed Frame - Twin XL
- 12.58.02 Bed Frame - Full XL
- 12.58.03 Mattress - Twin XL
- 12.58.04 Mattress - Full XL
- 12.58.07 Sofa
- 12.58.09 Coffee Table
- 12.58.10 Dining Table
- 12.58.11 Chair

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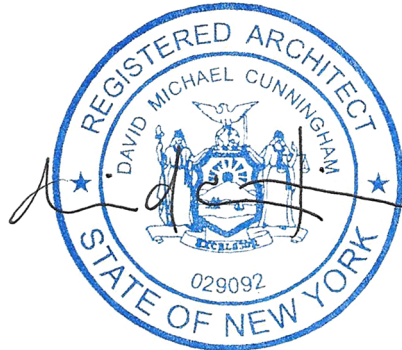
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A-820

FURNITURE PLAN

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PLUMBING GENERAL NOTES

- 1) All plumbing work shall comply with the New York State Plumbing Code.
- 2) Install piping in concealed locations, unless otherwise indicated and except in equipment rooms and service areas.
- 3) Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated.
- 4) Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, and other items requiring firestopping.
- 5) Where piping penetrates floor, ceiling, or wall, close off space between pipe or duct and adjacent work with firestopping insulation and caulk airtight.
- 6) Plumbing Contractor shall coordinate final pipe and equipment elevations with other trades. Piping installations shall not interfere with space usage, lighting systems, electrical systems, or HVAC grilles and diffusers.
- 7) Coordinate temporary shutdown of plumbing systems with owner prior to performing work. Provide temporary services.
- 8) The Contractor for this work shall carefully inspect and acquaint themselves with all drawings in order to fully understand the work required. The Contractor shall field measure and verify all dimensions and conditions before proceeding with the work.

9) Piping layouts are diagrammatic and intended to show general arrangement, size, and capacity. All offsets are not necessarily shown. The plumbing Contractor shall arrange and coordinate the work, furnish necessary offsets, valves, vents, and fittings to avoid conflicts with other mechanical and electrical services and with structural and architectural elements.

10) The Contractor shall be responsible for the removal of debris generated by this work and workers at the end of each working day, for general good housekeeping by their workers, and shall supply debris container(s) or dumpster(s) as required.

11) Refer to architectural plans for locations of fire walls and walls which require sealing. The plumbing Contractor shall be responsible for sealing all floor and wall penetrations with fire rated sealant before final payment.

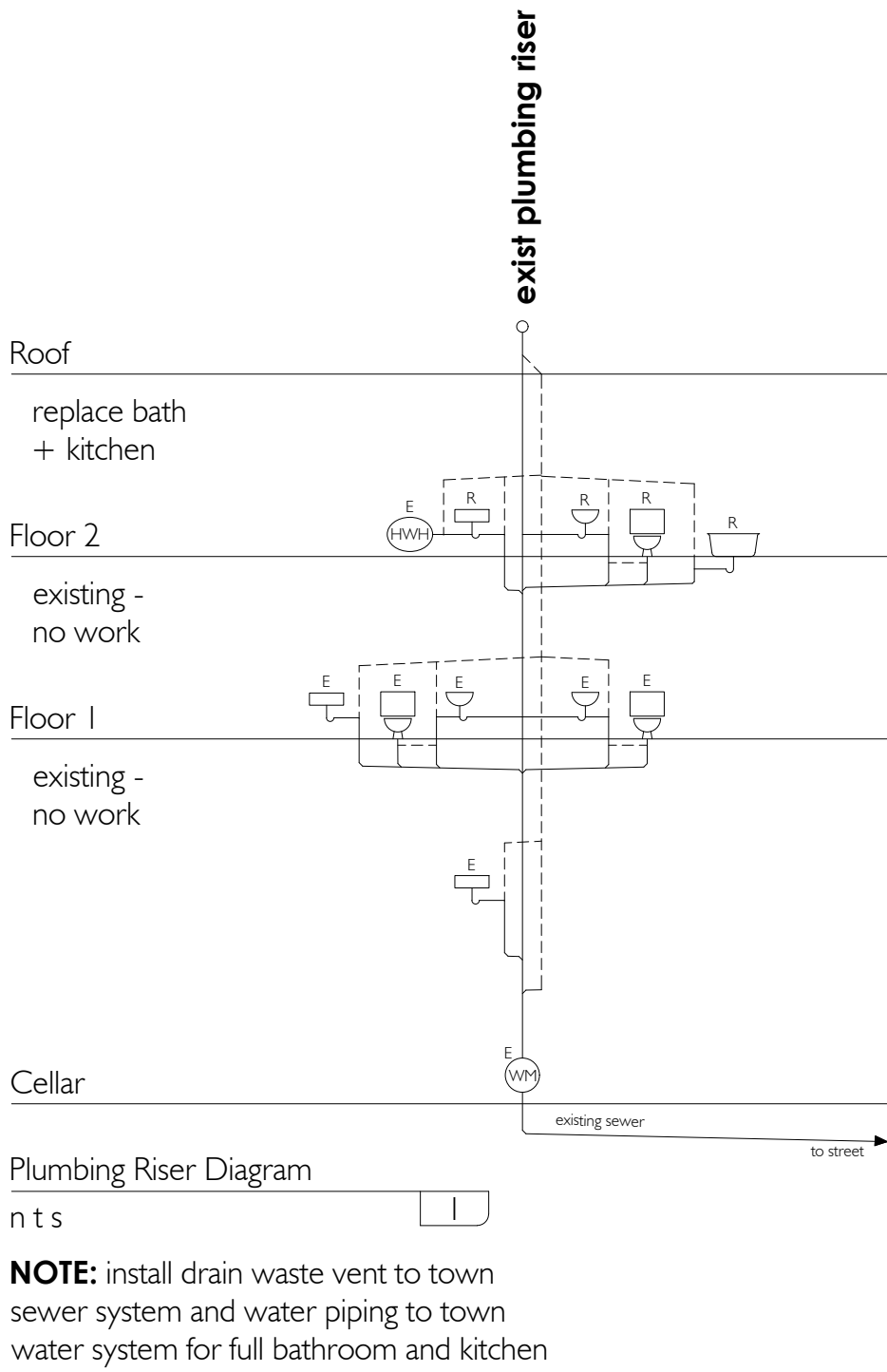
12) The Contractor shall replace any piping system and components which do not pass testing procedures specified and retest repaired portions of the system.

13) The Contractor shall make final connections to all plumbing equipment and equipment supplied by others, including required faucets, stops, valves, fittings, traps, etc.

14) The Contractor shall provide and install all indirect waste piping.

15) The Contractor shall run all piping to avoid reinforcing and / or footings at all column lines.

16) Trap primers shall be provided and readily available as per local code for all floor drains with no water content.



6513 MAIN STREET

DRAWINGS
P-001.02 Plumb Riser Diagram + Notes
P-120.00 Floor 2 Plumbing Plan

PLUMBING FIXTURE SCHEDULE				
FIXTURE	NUMBER	SIZE OF PLUMBING LINES		
		WASTE	VENT	COLD WATER
water closet	1	3"	2"	1/2"
lavatory	1	1 1/2"	2"	1/2"
sink	2	1 1/2"	2"	1/2"
shower	1	2"	2"	1/2"
washer / dryer	1	2"	2"	1/2"

PIPE INSULATION SCHEDULE							
SYSTEM	FLUID TEMP	INSULATION CONDUCTIVITY (BTU/IN)(H*FT2*F)	NOMINAL PIPE SIZE			NOMINAL PIPE SIZE	
			< 1"	1" to < 1-1/2"	1-1/2" to < 4"	< 1"	1" to < 1-1/2"
			CODE REQUIRED MINIMUM INSULATION			SPECIFIED INSULATION THICKNESS	
domestic hot water supply	110°F - 140°F	0.21 - 0.28	1"		1-1/2"	1"	1-1/2"
domestic cold water supply	45°F - 55°F	0.21 - 0.27	1/2"	1/2"	1/2"	1/2"	1/2"
domestic hot water recirculation	95°F - 115°F	0.21 - 0.28	1"	1"	1-1/2"	1"	1-1/2"

FIREHOUSE

ABBREVIATIONS
E existing fixture
HWH hot water heater
LAV lavatory
N new
R replace fixture
WC water closet
WM water meter

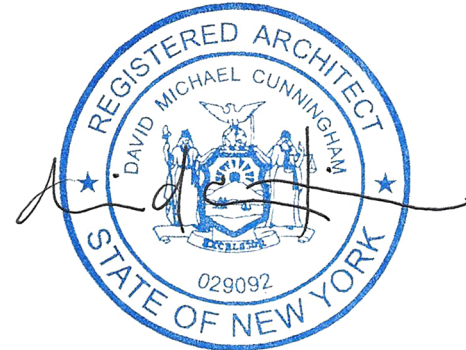
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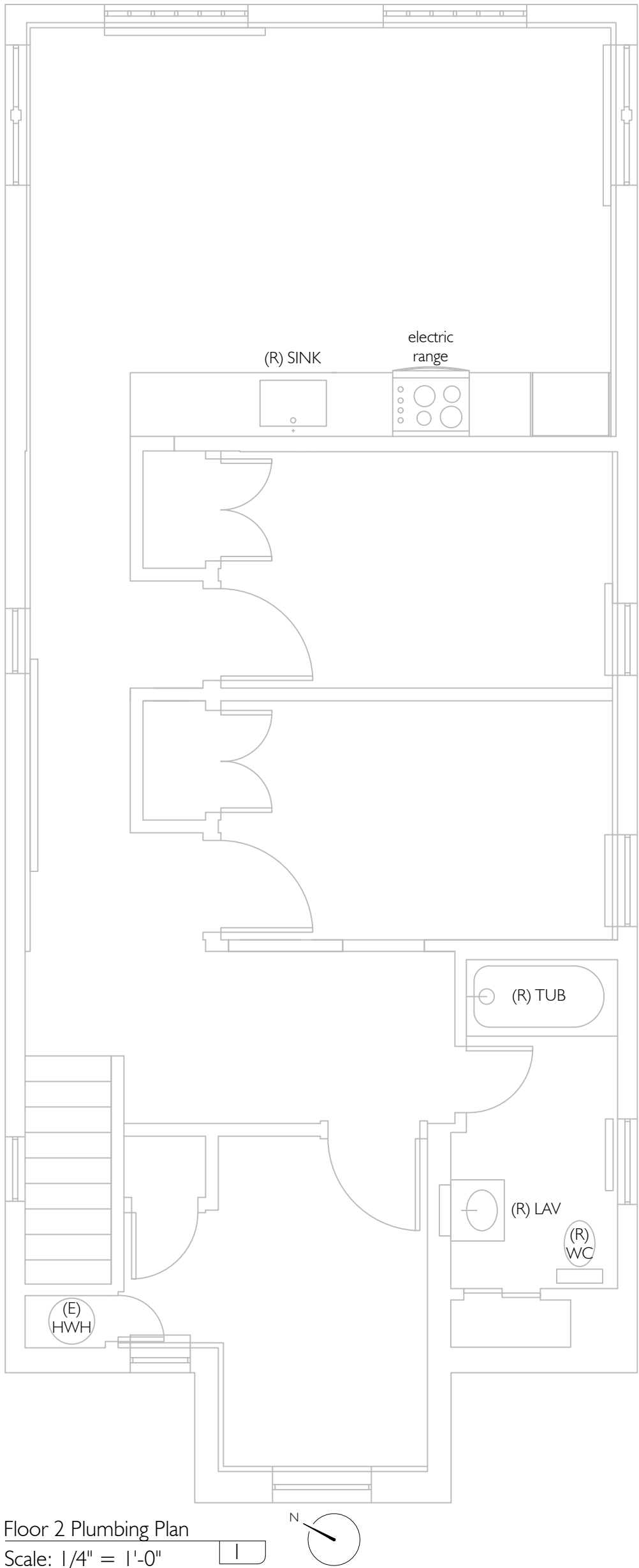
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Plumbing Riser Diagram + Notes
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FIREHOUSE

- ABBREVIATIONS
- E existing fixture
 - HWH hot water heater
 - LAV lavatory
 - N new
 - R replace fixture
 - WC water closet
 - WM water meter



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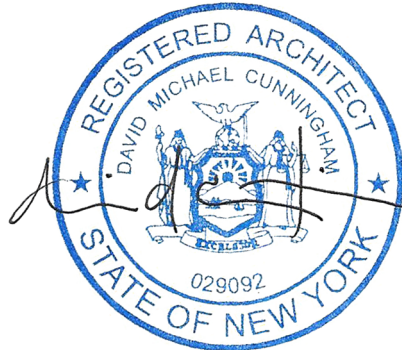
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Floor 2 Plumbing Plan

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LEGEND

	SINGLE LINE DUCTWORK – NEW
	SINGLE LINE DUCTWORK – EXISTING
	EXISTING DUCTWORK – DEMOLISH
	EQUIPMENT – NEW
	PIPING
	CONDENSATE PIPING
	DUCTWORK WITH ACOUSTIC LINING
	DUCT UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
	DUCT UNDER NEGATIVE PRESSURE (RETURN, EXHAUST OR OUTSIDE AIR)
	VANED ELBOW (SEE DETAIL)
	RADIUS ELBOW
	BRANCH DUCT TAKE OFF
	DUCT FLEXIBLE CONNECTION
	10" BY 6" SUPPLY REGISTER 150 CFM 10x6
	VOLUME DAMPER
	FIRE DAMPER AND ACCESS DOOR
	AUTOMATIC DAMPER (ELECTRIC)
	COMBINATION SMOKE AND FIRE DAMPER AND ACCESS DOOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	TYPE A CEILING DIFFUSER 400 CFM SUPPLY AIR
	TYPE A CEILING REGISTER (CEILING GRILLE)
	SQUARE DIFFUSER WITH BLANKING PLATE
	THERMOSTAT
	TEMP SENSOR
	SMOKE DETECTOR
	STATIC PRESSURE SENSOR
	CARBON MONOXIDE DETECTOR
	CARBON DIOXIDE DETECTOR
	A – EQUIPMENT TYPE B – FLOOR/LOCATION C – EQUIPMENT DESIGNATION

ABBREVIATIONS

A/AMP	AMPERE	EQ	EQUAL	PD	PRESSURE DROP
ACCU	AIR COOLED CONDENSING UNIT	(ER)	EXISTING TO BE RELOCATED	PSIG	PSI GAUGE
AD	ACCESS DOOR	EWB	ENTERING WET BULB	(R)	RELOCATED
AHU	AIR HANDLING UNIT	'F	DEGREES FAHRENHEIT	RA	RETURN AIR
BTU	BRITISH THERMAL UNIT	FA	FREE AREA (SQ. FT.)	REF	REFRIGERANT
BTUH	BTU PER HOUR	FC	FLEXIBLE CONNECTION	RG	RETURN GRILLE
CAD	CONDENSER AIR DISCHARGE	FD	FIRE DAMPER	RL	REFRIGERANT LIQUID
CAI	CONDENSER AIR INTAKE	FT	FEET	RLA	RUNNING LOAD AMPS
CD	CEILING DIFFUSER	HD	HEAD	RS	REFRIGERANT SUCTION
CFM	CUBIC FEET PER MINUTE	HR	HOOR	RM	ROOM
CG	CEILING GRILLE	HT	HEIGHT	SA	SUPPLY AIR
CLG	CEILING	IN	INCH OR INCHES	SP	STATIC PRESSURE
COD	CABLE OPERATED DAMPER	KW	KILOWATT	SPEC	SPECIFICATION
COND	CONDENSATE	LAT	LEAVING AIR TEMPERATURE	TEMP	TEMPERATURE
CP	CONDENSATE PUMP	LBS	POUNDS	TD	TRANSFER DUCT
CR	CEILING REGISTER	LD	LINEAR DIFFUSER	TG	TRANSFER GRILLE
CU FT	CUBIC FEET	LDB	LEAVING DRY BULB TEMPERATURE	TV	TURNING VANES
DB	DRY BULB	MBH	THOUSAND BTU PER HOUR	TYP	TYPICAL
(DE)	EXISTING TO BE REMOVED	MIN	MINIMUM	V	VOLTS
DIAM	DIAMETER	NFA	NET FREE AREA (SQ. FT.)	W	WIDTH
DWG	DRAWING	NO.	NUMBER	W/	WITH
(E)	EXISTING TO REMAIN	NTS	NOT TO SCALE	W/O	WITHOUT
EXH	EXHAUST AIR	OA	OUTSIDE AIR	WB	WET BULB
EAT	ENTERING AIR TEMPERATURE	OAI	OUTSIDE AIR INTAKE	WMS	WIRE MESH SCREEN
EDB	ENTERING DRY BULB TEMPERATURE	P	PUMP		
ELEC	ELECTRIC	PC	PUMPED CONDENSATE		

HEATING/COOLING LOAD CALCULATION
AND EQUIPMENT SIZING NOTE:

ALL THE MECHANICAL EQUIPMENT SPECIFIED IN THIS DRAWING SET HAS BEEN DESIGNED TO SUFFICIENTLY HEAT AND COOL THE OCCUPABLE AREAS OF THE BUILDING. REQUIRED HEATING AND COOLING DEMANDS HAVE BEEN CALCULATED IN ACCORDANCE WITH ASHRAE/ACCA 183, AND TAKE INTO ACCOUNT ALL BUILDING ENVELOPE, LIGHTING, VENTILATION & OCCUPANCY LOADS BASED ON THE PROJECT DESIGN. EQUIPMENT SELECTIONS WERE MADE TO MEET THE SYSTEM PEAK LOADS (HEATING OR COOLING).

SCOPE OF WORK

MECHANICAL MODIFICATIONS TO INCLUDE HVAC REPLACEMENT AND REPLACEMENT OF ASSOCIATED DUCTWORK. NO CHANGE OF USE, OCCUPANCY OR EGRESS UNDER THIS APPLICATION.

ENERGY COMPLIANCE
STATEMENT

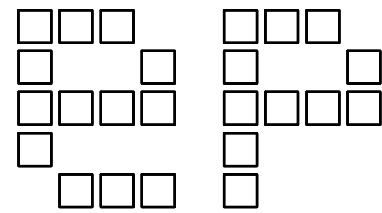
THE PROPOSED MECHANICAL DESIGN REPRESENTED IN THIS DOCUMENT IS CONSISTENT WITH THE BUILDING PLANS, SPECIFICATIONS AND OTHER CALCULATIONS SUBMITTED WITH THIS PERMIT APPLICATION. THE PROPOSED MECHANICAL SYSTEMS HAVE BEEN DESIGNED TO MEET THE 2020 EECNYS AND TO COMPLY WITH THE MANDATORY REQUIREMENTS SET FORTH.

EP ENGINEERING SHALL NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, NOR SHALL THE CONSULTANT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. EP ENGINEERING HAS NO DUTY TO SPECIFY IN ITS DESIGN COVID 19 MEASURES, AND NO DUTY TO INVESTIGATE, OBSERVE, MONITOR OR REPORT ANY FAILURE OF ANY CONTRACTOR OR OTHER THIRD PARTY TO FOLLOW ALL COVID 19 GUIDELINES OR REQUIREMENTS ASSOCIATED WITH THE PROJECT.

DRAWING LIST

- M-100.00 MECHANICAL SYMBOLS, NOTES & ABBREVIATIONS
- M-302.00 MECHANICAL CONSTRUCTION PLAN - 2ND FLOOR
- M-800.00 MECHANICAL SPECIFICATIONS (1 OF 3)
- M-801.00 MECHANICAL SPECIFICATIONS (2 OF 3)
- M-802.00 MECHANICAL SPECIFICATIONS (3 OF 3)

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ISSUES:

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ESSEX COUNTY FARMWORKER
HOUSING RENOVATION
Firehouse
6513 MAIN STREET
Westport NY 12993

M-100.00

MECHANICAL SYMBOLS, NOTES &
ABBREVIATIONS

SEAL / SIGNATURE:

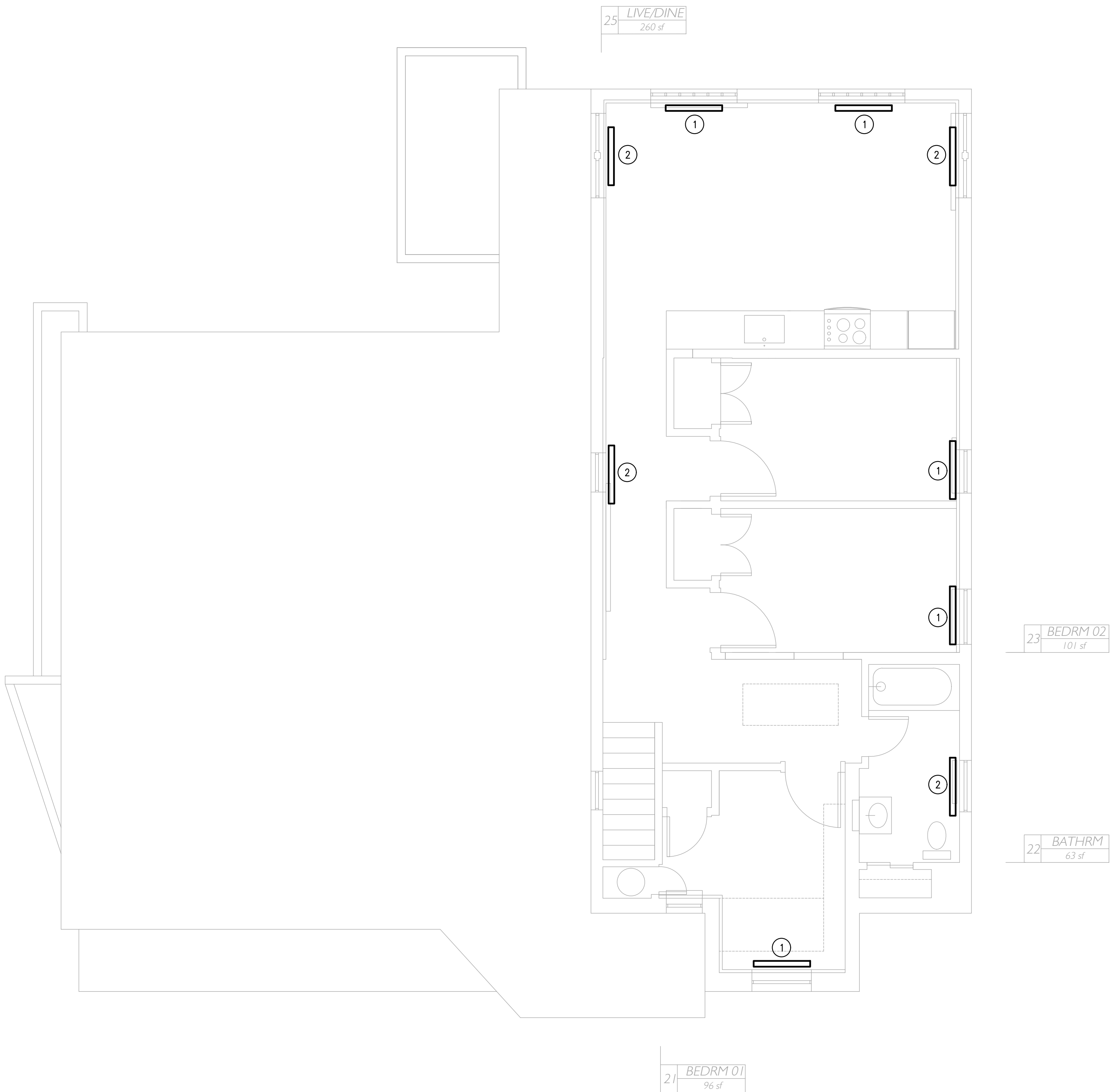


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THE SCALE OF THIS DRAWING IS CORRECT WHEN PRINTED ON 24x36 SIZE PAPER. ALL OTHER PAPER SIZES WILL NOT SHOW THE CORRECT SCALE.

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MECHANICAL CONSTRUCTION PLAN - 2ND FLOOR
1 SCALE: 1/4"=1'-0"

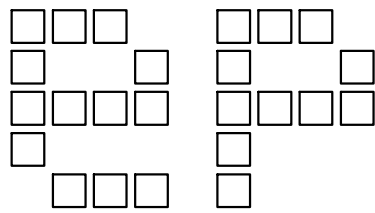
PLAN NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
3. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
4. NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
5. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
6. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
7. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
8. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.

KEY NOTES

- 1 PROVIDE 2 KW BASEBOARD HEATER SIMILAR TO INDEECO 00200C. PROVIDE INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.
- 2 PROVIDE 1.5 KW BASEBOARD HEATER SIMILAR TO INDEECO 00100C. PROVIDE INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.

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Firehouse
6513 MAIN STREET
Westport NY 12993

M-302.00

MECHANICAL CONSTRUCTION PLAN -
2ND FLOOR

SEAL / SIGNATURE:



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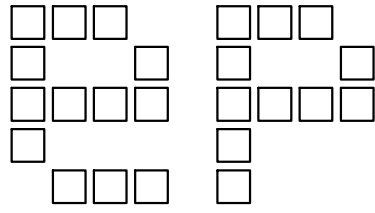
1. GENERAL
- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED INCLUDING HALLWAYS, DOOR WIDTHS, ELEVATOR DIMENSIONS, ETC. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- D. DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
- E. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINDING FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
- F. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- G. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- H. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME.
- I. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.
- J. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
- K. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- L. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.
- M. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
- N. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT, WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
- O. MATERIALS AND WORKSMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- P. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
- Q. THE CONTRACTOR'S PROPOSAL FOR ALL WORK
- SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE PREMIUM PORTION OF THE WAGES PAID.
- R. UNLESS OTHERWISE SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- S. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- T. SUBMISSION OF A PROPOSAL SHALL BE CONSIDERED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC. WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC.) AND CONDITIONS.
- U. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- V. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- W. GUARANTEE:
- i. ALL MATERIALS AND WORKSMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS. INSTALLED. INSTRUCT THE OWNERS PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.
- ii. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKSMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.
- iii. THIS CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.
- iv. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5-YEAR WARRANTY.
- X. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- Y. DEFINITIONS:
- i. "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- ii. "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- iii. "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
- iv. "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
- v. "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
- vi. "EXPPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- vii. "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
2. SCOPE OF WORK
- A. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.

- B. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKSMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- D. PERMITS AND FEES
- i. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TEST OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- ii. THIS CONTRACTOR SHALL PREPARE OR HIRE THE NECESSARY CONSULTANTS TO PREPARE AND FILE ALL PLANS, CALCULATION, FORMS, ETC. REQUIRED FOR FILING WITH ALL AGENCIES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO THE DEP (DEPARTMENT OF ENVIRONMENTAL PROTECTION), DEC (DEPARTMENT OF ENVIRONMENTAL CONSERVATION), BUREAU OF AIR RESOURCES, EPA (ENVIRONMENTAL PROTECTION AGENCY), FDNY, ETC.
- E. INSPECTIONS & TESTING / SPECIAL INSPECTIONS
- i. THIRD PARTY INSPECTION AGENCY SHALL BE HIRED BY THE OWNER TO PERFORM ALL INSPECTIONS REQUIRED BY ALL LOCAL CODES.
- F. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS INDICATING CAPACITY DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
- G. WITHIN 15 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR REVIEW, A LIST OF ALL MATERIAL AND EQUIPMENT MANUFACTURER'S PRODUCTS THAT ARE PROPOSED, AS WELL AS NAMES OF ALL SUBCONTRACTORS WHOM THIS TRADE PROPOSES TO UTILIZE ON THIS PROJECT.
3. SHOP DRAWINGS
- A. INDICATE ON EACH SUBMISSION: PROJECT NAME AND LOCATION, ARCHITECT AND ENGINEER, ITEM IDENTIFICATION AND APPROVAL STAMP OF PRIME CONTRACTOR, SUBCONTRACTOR NAMES AND PHONE NUMBERS, REFERENCE TO THE APPLICABLE DESIGN DRAWING OR SPECIFICATION ARTICLE, DATE AND SCALE.
- B. THE WORK DESCRIBED IN ALL SHOP DRAWING SUBMISSION SHALL BE CAREFULLY CHECKED FOR ALL CLEARANCES (INCLUDING THOSE REQUIRED FOR MAINTENANCE AND SERVICING), FIELD CONDITIONS, MAINTENANCE OF ARCHITECTURAL CONDITIONS AND PROPER COORDINATION WITH ALL TRADES ON THE JOB.
- C. EACH SUBMITTED SHOP DRAWING IS TO INCLUDE A CERTIFICATION THAT ALL RELATED JOB CONDITIONS HAVE BEEN CHECKED AND VERIFIED AND THAT THERE ARE NO CONFLICTS.
- D. ALL SHOP DRAWINGS ARE TO BE SUBMITTED TO ALLOW 5 BUSINESS DAYS FOR CHECKING IN ADVANCE OF FIELD REQUIREMENTS. ALL SUBMITTALS TO BE COMPLETE AND CONTAIN ALL REQUIRED AND DETAILED INFORMATION. SHOP DRAWINGS WITH MULTIPLE PARTS SHALL BE SUBMITTED AS A PACKAGE.
- E. IF SUBMITTALS DIFFER FROM THE CONTRACT DOCUMENT REQUIREMENTS, MAKE SPECIFIC MENTION OF SUCH DIFFERENCES IN A LETTER OF TRANSMITTAL, WITH REASON FOR SUBSTITUTION, TOGETHER WITH REASONS FOR SAME.
- F. ELECTRONIC COPIES OF ENGINEERING DRAWINGS:
- i. IF THE CONTRACTOR REQUIRES (.DWG) FORMAT, THE DRAWINGS WILL BE FORWARDED ONLY UPON RECEIPT OF SIGNED ACCEPTANCE OF TERMS AND PERMISSION FROM THE ARCHITECT MUST
- SHALL BE OBTAINED FOR ENGINEER TO INCLUDE THE ARCHITECTURAL BACKGROUND AS REFERENCE. THE CONTRACTOR IS TO OBTAIN THE ARCHITECT'S LATEST DRAWINGS DIRECTLY FROM THE ARCHITECT.
- ii. THESE FILES ARE BEING ISSUED FOR THE CONVENIENCE OF THE CONTRACTOR AND THE CONTRACTOR REMAINS RESPONSIBLE FOR ALL CONTRACT REQUIREMENTS RELATED TO THE NORMAL SHOP DRAWING PREPARATION PROCESS.
- G. SUBMISSIONS:
- i. PROVIDE ALL COORDINATION DRAWINGS, DUCTWORK AND PIPING SHOP DRAWINGS IN PDF FORMAT – PAPER SUBMISSIONS SHALL NOT BE ACCEPTED. THE ARCHITECT WILL FORWARD ALL SUBMISSIONS TO THE ENGINEER.
- H. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
- j. SHEET METAL SHOP DRAWING (3/8 INCH SCALE)
- ii. SHEET METAL & PIPING SHOP STANDARDS
- SHEETMETAL SHOP STANDARDS SHALL BE COMPILED DIRECTLY FROM THE "SMACNA DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" MANUAL. MODIFICATIONS FOR A SPECIFIC PROJECT, IF ANY, SHALL BE INDICATED DIRECTLY ON THE SMACNA BY DETAIL. MODIFIED SHOP STANDARDS NOT TAKEN DIRECTLY FROM THE SMACNA TEMPLATES WILL NOT BE ACCEPTED. ANY DEVIATIONS FROM SMACNA SHALL BE NOTED.
- iii. AC UNITS
- iv. FANS
- v. PIPING LAYOUT: DETAIL, AT 3/8 INCH SCALE PIPING LAYOUT WITH FITTINGS, VALVES AND EQUIPMENT, USE SINGLE LINE FOR PIPE SIZES 3 INCHES AND SMALLER, LINE DOUBLE LINE FOR PIPE SIZES 4 INCHES AND GREATER. FABRICATION OF PIPE ANCHORS, HANGERS, SUPPORTS FOR MULTIPLE PIPES, ALIGNMENT GUIDES, EXPANSION JOINTS AND LOOPS, AND ATTACHMENTS OF THE SAME TO THE BUILDING STRUCTURE. DETAIL LOCATION OF ANCHORS, ALIGNMENT GUIDES, AND EXPANSION JOINTS AND LOOPS SUBMIT ALL WELDING CERTIFICATES.
- vi. VIBRATION ISOLATION
- vii. DAMPER AND VALVE ACTUATORS
- viii. AUTOMATIC CONTROL SYSTEMS AND DEVICES
- ix. SEQUENCE OF OPERATIONS
- I. COORDINATION DRAWINGS: CONTRACTOR SHALL PROVIDE PLANS AT 3/8 INCH SCALE INDICATING COORDINATION BETWEEN THE TRADES USING INPUT FROM INSTALLERS OF THE ITEMS INVOLVED.
- i. DUCT AND PIPING INSTALLATION INDICATING COORDINATION WITH GENERAL CONSTRUCTION, BUILDING COMPONENTS, AND OTHER BUILDING SERVICES. INDICATE LOCATIONS AND SIZES OF ALL OPENINGS IN FLOOR, WALLS AND ROOF THAT MAY BE REQUIRED.
- ii. COORDINATION WITH SUSPENDED CEILING COMPONENTS, STRUCTURAL MEMBERS TO WHICH DUCT WILL BE ATTACHED, SIZE AND LOCATION OF INITIAL ACCESS MODULES FOR ACOUSTICAL TILE, PENETRATIONS OF SMOKE BARRIERS AND FIRE-RATED CONSTRUCTION, LIGHTING FIXTURES, AIR OUTLETS AND INLETS, SPEAKERS, SPRINKLERS, ACCESS PANELS, PERIMETER MOLDINGS SHALL BE PERFORMED.
- G. WITHIN 15 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR REVIEW, A LIST OF ALL MATERIAL AND EQUIPMENT MANUFACTURER'S PRODUCTS THAT ARE PROPOSED, AS WELL AS NAMES OF ALL SUBCONTRACTORS WHOM THIS TRADE PROPOSES TO UTILIZE ON THIS PROJECT.

- OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF THIS PROPOSAL. THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL CHANGES RESULTING FROM THE SUBSTITUTION. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW IN CONJUNCTION WITH THE SUBMITTAL OF THE SUBSTITUTION. ANY SUBSTITUTION MUST BE SUBMITTED WITH AN EXPLANATION WHY A SUBSTITUTION IS BEING UTILIZED. IF THE SUBSTITUTED ITEM DEVIATES FROM A SPECIFIED ITEM, THOSE DEVIATIONS ARE TO BE IDENTIFIED ON A LINE BY LINE BASIS. IF THE SUBSTITUTE IS BEING UTILIZED FOR FINANCIAL REASONS, THE ASSOCIATED CREDIT MUST BE SIMULTANEOUSLY SUBMITTED.
- B. ALL SUBSTITUTED EQUIPMENT SHALL CONFORM TO SPACE REQUIREMENTS AND PERFORMANCE REQUIREMENTS SHOWN ON CONTRACT DOCUMENTS. CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT DOES NOT MEET THESE REQUIREMENTS AT HIS OWN EXPENSE. ANY MODIFICATIONS TO ASSOCIATED SYSTEMS OR ADDITIONAL COSTS TO THIS SUBSTITUTION SHALL BE AT THIS CONTRACTOR'S EXPENSE.
- C. CONTRACTOR SHALL SUBMIT BID BASED ON SPECIFIC ITEMS AND SHALL SUPPLY AS AN ALTERNATE PRICE ANY SUBSTITUTIONS.
6. SERVICE AND WARRANTY (MAINTENANCE CONTRACT)
- A. THIS CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE PRICE, A FULL ONE YEAR SERVICE OF ALL MECHANICAL COMPONENTS AND SYSTEMS, WITH PRICES FOR YEARS 2, 3 AND 4 FOLLOWING THIS FIRST YEAR, AT THE TIME OF ACCEPTANCE OF PROJECT. THE TENANT OR OWNER'S REPRESENTATIVE WILL DECIDE TO ACCEPT WHICH ALTERNATE, IF ANY. THIS IS IN ADDITION TO THE WARRANTY BEING PROVIDED AS PART OF THE BASE CONTRACT.
7. ACCESS DOORS IN GENERAL CONSTRUCTION
- A. THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL A PLAN INDICATING THE SIZE (MINIMUM 18 INCH X 36 INCH) AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, VALVES, DAMPERS AND CONTROLS. CONTRACTOR SHALL ATTACHMENTS OF THE SAME TO THE INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID.
- B. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL EQUIPMENT, DAMPERS, VALVES, ETC. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
- B. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL EQUIPMENT, DAMPERS, VALVES, ETC. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
8. SHEET METAL WORK
- A. DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS, HANGERS AND SUPPORTS, SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" LATEST EDITION AND PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.
- B. EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE GALVANIZED SHEET STEEL.
- C. DESCRIPTION OF DUCTWORK PRESSURE CLASS AND EQUIPMENT:
- i. 2 INCH DUCT CLASS AND LESS: ALL OTHER LOW PRESSURE DUCTWORK. SEAL CLASS C, LEAKAGE CLASS 24 (RECTANGULAR) OR CLASS 12 (ROUND).
- ii. 3 INCH DUCT CLASS: ALL SUCT AND DISCHARGE OF KITCHEN EXHAUST AND OTHER EXHAUST DUCTWORK. SEAL CLASS B, LEAKAGE CLASS 6 (RECTANGULAR METAL) OR CLASS 6 (ROUND).
- iii. 4 INCH AND GREATER DUCT CLASS: ALL SUPPLY/RETURN DUCTWORK FROM DISCHARGE/INTAKE OF FANS, AIR HANDLING UNITS OR AC UNITS TO INLET/OUTLET OF TERMINAL BOXES ON FLOOR, ALL OUTDOOR DUCTWORK AND ALL DUCTWORK RUNNING THROUGH UNCONDITIONED SPACES. SEAL CLASS A, LEAKAGE CLASS 6 (RECTANGULAR METAL) OR CLASS 3 (ROUND).
- D. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE", LATEST EDITION, BASED ON THE FOLLOWING STATIC-PRESSURE CLASS UNLESS OTHERWISE INDICATED.
- i. THE FOLLOWING FITTING CONNECTIONS AND DUCT CONSTRUCTION GAUGES ARE NOT ACCEPTABLE
- a) DRIVE SLIP [T-1, T-2] FITTING CONNECTIONS
- b) 26 GAUGE DUCTWORK.
- ii. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE", "TRANSVERSE (GIRTH) JOINTS" FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE." FITTINGS AND/OR JOINTS OF TWO DIFFERENT GAUGES, CONNECTED JOINT RATING SHALL MEET MORE STRINGENT CONDITIONS.
- iii. USE THE FOLLOWING SMACNA TRANSVERSE (GIRTH) JOINTS
- a) DUCT CONSTRUCTION AS FOLLOWS FOR 2 INCH W.G. CLASS:
- (1) UP TO 12 INCH WIDE USE T-6 OR T-7
- (2) 13 INCH TO 28 INCH WIDE USE T-11 OR T12
- (3) 29 INCH WIDE AND UP USE TDC OR TDF
- b) DUCT CONSTRUCTION AS FOLLOWS FOR 3 INCH W.G. CLASS:
- (1) UP TO 20 INCH WIDE USE T-6 OR T-7
- (2) 21 INCH TO 24 INCH WIDE USE T-11 OR T12
- (3) 25 INCH WIDE AND UP USE TDC OR TDF
- c) DUCT CONSTRUCTION AS FOLLOWS FOR 4 INCH W.G. CLASS:
- (1) UP TO 12 INCH WIDE USE T-6 OR T-7
- (2) 13 INCH TO 18 INCH WIDE USE T-11 OR T12
- (3) 19 INCH WIDE AND UP USE TDC OR TDF
- E. VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA "LOW VELOCITY MANUAL," EXCEPT PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW AT OTHER END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAR INSULATION. INSTALL WITH LEVERS ACCESSIBLE.
- i. PROVIDE MANUAL BALANCING VOLUME DAMPERS AS REQUIRED TO PROPERLY BALANCE THE AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF BALANCING DAMPERS ARE NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUM STANDARDS SHALL GOVERN:
- a) LOW PRESSURE: ALL SUPPLY AIR MAIN BRANCHES FROM TRUNK, EACH SPLIT, AND ALL SUB-BRANCHES FROM MAINS SHALL BE PROVIDED WITH BALANCING DAMPERS.
- b) LOW PRESSURE: ALL EXHAUST AND RETURN BRANCHES FROM TRUNK, EACH SPLIT AND ALL SUB-BRANCHES FROM MAINS SHALL BE PROVIDED WITH BALANCING DAMPERS.
- F. FLEXIBLE DUCTWORK SHALL NOT BE USED ON THIS PROJECT.
- G. ACCESS DOORS: INSULATED OR UNINSULATED, SAME AS DUCT.
- i. PROVIDE MINIMUM 20 INCH X 14 INCH ON MAIN DUCTS, AND 12 INCH X 6 INCH ON BRANCH DUCTS, UNLESS OTHERWISE APPROVED, AT FIRE DAMPERS, AND AT ALL DUCT ACCESSORIES SUCH AS HUMIDIFIERS, DUCT SMOKE DETECTORS, AUTO DAMPERS, AND LOUVERS.
- ii. ALL ACCESS DOORS TO BE HINGED, WITH LATCH SIMILAR TO VENTLOCK NO. 100.
- H. FLEXIBLE CONNECTIONS: NEOPRENE-COATED GLASS FABRIC, 30 OZ PER SQUARE YD WITH SEWED AND CEMENTED SEAMS, SIMILAR TO VENT FABRICS. PROVIDE WITH METAL COLLARS. ALLOW MINIMUM MOVEMENT OF 1 INCH.
- I. TURNING VANES: GALVANIZED STEEL SMALL DOUBLE-THICKNESS VANES WITH 2 INCH INSIDE RADIUS.
- J. FIRE DAMPERS: DYNAMIC; RATED AND LABELED ACCORDING TO UL 555 BY AN NRTL GALVANIZED STEEL CONSTRUCTION, CURTAIN TYPE WITH BLADES OUT OF THE AIRSTREAM (TYPE B). SPRING LOADED, EQUIPPED WITH FUSIBLE LINK, CONFORMING TO NFPA STANDARD 90A AND APPROVED BY NEW YORK CITY, SIMILAR TO POTOROFF OR RUSKIN. RATED AS REQUIRED. PROVIDE FIRE DAMPERS AS NOTED ON THE PLANS AND IN DUCTS AND OPENINGS IN SHAFTS, FLOORS, FIRE WALLS, FIRE-RESISTANCE PARTITIONS, FIRE RATED CEILINGS, EXIT CORRIDOR WALLS. PROVIDE ACCESS DOOR IN DUCT ADJACENT TO EACH FIRE DAMPER. SEE INSTALLATION ON DRAWING.
- K. COMBINATION FIRE/SMOKE DAMPERS:
- i. COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED AS INDICATED ON DRAWING AND AS REQUIRED BY LOCAL CODES. DAMPERS TO BE UL 555S LATEST EDITION LISTED AND LABELED AND IN CONFORMANCE WITH NFPA.
- ii. COMBINATION FIRE/SMOKE DAMPERS SHALL BE CLASS 1 (ONE), DUAL OVERRIDE REMOTE RESETTABLE, OPPOSED MULTIBLADE TYPE WITH FIRESTAT OR EQUIVALENT HEAT RESPONSIVE DEVICE, 120-VOLT ACTUATOR AS REQUIRED, MOUNTED OUT OF THE AIR STREAM, WITH DAMPER OPERATOR AND BLADE POSITION INDICATOR SWITCHES. PROVIDE MOTOR MOUNT BRACKET STRENGTHENED FOR DAMPERS OVER 18 INCH IN HEIGHT. PROVIDE A 10 GAUGE WELDED PREVENT STIFFENER AT EACH CORNER TO PREVENT DAMPER MISALIGNMENT.
- iii. PROVIDE ACCESS DOOR IN DUCT ADJACENT TO EACH FIRE/SMOKE DAMPER.
- iv. PROVIDE FIRE/SMOKE DAMPERS AS NOTED ON THE PLANS AND IN DUCTS AND OPENINGS IN SHAFTS, FLOORS, FIRE WALLS, FIRE-RESISTANCE PARTITIONS, FIRE RATED CEILINGS AND SMOKE BARRIERS.
- v. THE HVAC CONTRACTOR SHALL PROVIDE ALL DEVICES, RELAYS, END SWITCHES, E/P SWITCHES, CONTROL COMPONENTS, AIR PIPING, POWER WIRING, CONTROL WIRING AND INTERLOCK WIRING AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF

- OPERATION FOR THESE DAMPERS.
- vi. DAMPERS SHALL BE MANUFACTURED BY GREENHECK MODEL FSD-311, RUSKIN MODEL FSD-60, OR APPROVED EQUAL.
- vii. MODULATING COMBINATION FIRE/SMOKE DAMPERS TO BE PROVIDED WITH ACTUATORS RATED AND TESTED FOR THIS APPLICATION.
- viii. SEE INSTALLATION ON DRAWING.
- L. ALL DUCT DIMENSIONS INDICATED ON PLANS ARE INSIDE CLEAR DIMENSIONS. INCREASE DUCT DIMENSIONS AS REQUIRED TO ACCOUNT FOR INTERNAL LINING.
- M. AUTOMATIC DAMPERS: COMPLETE WITH LINKAGE AND ELECTRIC OPERATOR, OPPOSED BLADE DAMPER OR GALVANIZED STEEL MIN. 4 INCH, MAX. 8 INCH WIDE WITH COMPRESSIBLE EDGE SEALS TO PREVENT LEAKAGE. FACTORY-ASSEMBLED STEEL LINKAGE AND SHAFT WITH NYLON OR OIL-IMPREGNATED BRUSHING WITHIN MOVING AREA AT POWER TO LIMIT LEAKAGE TO 10 CFM PER SQUARE FEET. LINKAGE TO WITHSTAND LOAD EQUAL TO TWICE MAXIMUM OPERATING FORCE WITHOUT DEFLECTION. DAMPER MOUNTED IN WELDED STEEL CHANNEL FRAME.
- i. SHUTOFF DAMPERS SHALL BE CLASS I MOTORIZED DAMPERS WITH AN AIR LEAKAGE RATE NOT GREATER THAN 4 CFM/SF OF DAMPER OPENING AREA AT 1.0 INCH WG AND AMCA 5000 LISTED.
- N. EXTERIOR LOUVERS: 4 INCH WIDE STATIONARY LOUVER, EXTRUDED ALUMINUM, 0.081 INCH WALL THICKNESS. ROOSTS AND EXHAUST AND FRAME WITH STAINLESS STEEL OR ALUMINUM FASTENERS. LOUVER TO INCORPORATE STRUCTURAL SUPPORT TO WITHSTAND WIND LOAD OF 20 LBS PER SQUARE FEET. PROVIDE REINFORCED ALUMINUM BRACKET TO ARCHITECT LOUVER TO COMPLY WITH BASE BUILDING STANDARDS.
- O. ALUMINUM DUCTWORK:
- i. ALUMINUM SHEETS: COMPLY WITH ASTM B 209ALLOY 3003, H14 TEMPER; WITH MILL FINISH FOR CONCEALED DUCTS, AND STANDARD, ONE-SIDE BRIGHT FINISH FOR DUCT SURFACES EXPOSED TO VIEW.
- ii. ALL OUTSIDE AIR, EXHAUST, AND RELIEF DUCTWORK WITHIN 5 FEET OF LOUVERS SHALL BE ALUMINUM WITH SEAMS SEALED WATERTIGHT. WITH ALCOA ALUMINAST 1000 OR 6 SEAM SEAL OR SOLDER. PITCH DUCTWORK TOWARDS LOUVER.
- P. WIRE MESH SCREEN (WMS): NO. 16 USSG, 3/4 SQUARE MESH, IN 1 INCH WIDE GALVANIZED STEEL ENCASED FRAME. FLANGED DUCT OPENING TO RECEIVE FRAME.
- Q. LEAKAGE TESTING:
- i. ALL DUCTWORK GREATER THAN 2 INCH CLASS AS DEFINED WITHIN IS TO BE TESTED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COLLARS, CAPS, ELECTRIC POWER, ETC. NECESSARY TO PERFORM THE TESTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING THE TEST NO LESS THAN THREE (3) BUSINESS DAYS PRIOR TO ITS INTENDED OCCURRENCE. LOW PRESSURE DUCTWORK (2 INCH CLASS) SHALL BE TESTED ON AN AS NEEDED BASIS AT THE ENGINEER'S DIRECTION. LEAKAGE TEST PROCEDURE SHALL FOLLOW THE OUTLINES AND CLASSIFICATIONS IN THE SMACNA HVAC DUCT LEAKAGE TEST MANUAL. IF THE TEST FAILS TO MEET THE ALLOTTED LEAKAGE LEVEL THE CONTRACTOR SHALL MODIFY TO BRING IT INTO COMPLIANCE AND SHALL RETEST IT UNTIL ACCEPTABLE LEAKAGE IS DEMONSTRATED. TESTS AND NECESSARY REPAIR SHALL BE COMPLETED AND REPORT SHALL BE SUBMITTED TO AND APPROVED BY ENGINEER PRIOR TO CONCEALMENT OF DUCTS.
9. AIR OUTLETS
- A. GENERAL:
- i. MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS. FINISH SHALL MATCH COLOR SAMPLE AS APPROVED.
- ii. FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION AS INDICATED ON ARCHITECTURAL PLANS.
- iii. EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS.
- iv. PROVIDE MOUNTING AND BLOCKING
- v. SUITABLE FOR OPERATION AT 20% EXCESS AND 20% LESS THAN NOTED CAPACITY FOR CONSTANT VOLUME SYSTEMS AND AT 20% EXCESS AND 60% LESS THAN NOTED CAPACITY FOR VARIABLE VOLUME SYSTEMS.
- vi. MANUFACTURER RESPONSIBLE FOR EXAMINING APPLICATION OF EACH OUTLET AND GUARANTEE THAT EACH WILL PROVIDE REQUIRED NC LEVELS AND COMFORT SPACE CONDITIONS WITHOUT DRAFTS THROUGHOUT OPERATING RANGE.
- vii. ALL REGISTERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS. DAMPER OPERATING LEVERS SHALL BE ACCESSIBLE FROM THE FACE OF AIR OUTLETS. CEILING DIFFUSERS SHALL NOT HAVE BUTTERFLY DAMPERS WITHIN NECK.
- D. WATER BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF BALANCING VALVES AT PUMPS FOR PROPER FLOW. ADJUST FLOW
- viii. COVER EACH FAN AND BRANCH DAMPERS WITH REMOVABLE COVER. AIR DEFLECTION VANE AND CABLE CAMPER IN EACH BRANCH TAP WITH 3 FEET CABLE TO DIFFUSER FACE.
- i. LINEAR DIFFUSERS: FRAME TYPES SHALL MATCH WITH CEILINGS. PROVIDE MEANS TO NEATLY BUTT AND ALIGN UNITS TO GIVE CONTINUOUS APPEARANCE WITHOUT BUTTING FLANGES. NO SCREW HOLES OR WELDED CORNERS VISIBLE ON DIFFUSERS OR FRAMES WILL BE PERMITTED. AIR VOLUME SHALL BE ADJUSTABLE THROUGH AIR SUPPLY FACE WITHOUT REQUIRING REMOVAL OF FACE PANEL. PROVIDE BLANKED SECTIONS FOR INACTIVE LENGTHS. PROVIDE PLASTER FRAMES AND OPPOSED BLADE VOLUME DAMPERS WITH REMOTE CABLE OPERATORS WHERE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS AND OVERALL LENGTHS.
- C. SQUARE DIFFUSERS: DIFFUSERS SHALL BE STEEL CONSTRUCTION PAINTED WHITE SUITABLE FOR THE TYPE OF CEILING.
- D. REGISTERS AND GRILLES:
- i. RETURN AND EXHAUST REGISTERS: STEEL CONSTRUCTION WITH VOLUME DAMPER.
- ii. SUPPLY REGISTERS: STEEL CONSTRUCTION ADJUSTABLE DOUBLE DEFLECTION STEEL BLADES. PROVIDE AIR EQUALIZING DEFLECTOR WHERE REGISTER COLLAR DUCT IS LESS THAN 2 FEET LONG.
- iii. TRANSFER GRILLES: STEEL CONSTRUCTION WITHOUT VOLUME DAMPER.
10. NOISE CONTROL
- A. ALL ROOM NC LEVELS SHALL BE 35 OR LESS.
- B. PROVIDE SOUNDINGLIN FOR THE FOLLOWING DUCTWORK:
- i. ALL DUCTWORK WITHIN MECHANICAL ROOMS AND NOT LESS THAN 25 FEET ON EACH SIDE OF ALL FANS AND AC UNITS.
- ii. ALL AIR TRANSFER AND JUMPER DUCTS.
- iii. RETURN AIR STUB DUCTS AT MER WALLS AND SHAFT INTAKE OPENINGS FOR FULL LENGTH.
- iv. DOWNSTREAM OF ALL TERMINAL BOXES (CV, VAV) FOR A MINIMUM OF 15 FEET).
- v. ALL MIXED AIR PLENUMS, EXCEPT WHERE MOISTURE CARRYOVER FROM OUTDOOR AIR LOUVER WILL OCCUR.
- vi. EXPOSED SUPPLY DUCTWORK SHALL BE ACOUSTICALLY LINED IN LIEU OF EXTERNAL INSULATION.
- vii. ALSO WHERE NOTED ON A DRAWING.
- C. SOUNDLINING IN DUCTWORK: FIBROUS GLASS, MINIMUM 3 LB DENSITY, 1-1/2 INCH THICKNESS, MAXIMUM 0.25% FACTOR AT 75°F MEAN TEMPERATURE WITH ACRYLIC COATED FINISH FACTORY APPLIED EDGE COATING AND STENCILED IN ACCORDANCE WITH NFPA 90. FLAMESPREAD SHALL BE A MAXIMUM OF 25. LINING SHALL NOT SUPPORT MICROBIAL GROWTH AND SHALL BE TESTED IN ACCORDANCE WITH ASTM C 1071 AND ASTM G21/G22. SIMILAR TO MANVILLE PERMACOTE LINACOUSTIC.
- D. ALL SOUNDLINING, ADHESIVES, FACES AND ACCESSORIES TO BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, EXCEPT AS OTHERWISE NOTED.
11. TESTING AND BALANCING
- A. ALL AIR AND WATER BALANCING SHALL BE BY AN INDEPENDENT CONTRACTOR NOT AFFILIATED WITH THE MECHANICAL CONTRACTOR AND IN ACCORDANCE WITH LOCAL STANDARDS. CONTRACTOR SHALL UTILIZE BASE BUILDING BALANCING CONTRACTOR OR APPROVED EQUAL, CONTACT BUILDING MANAGEMENT.
- B. CONTRACTOR TO BALANCE ENTIRE SYSTEM TO AIR AND/OR WATER QUANTITIES AS SHOWN ON ALL RELATED DRAWINGS FOR THIS JOB, AND AS DESCRIBED HEREIN. BALANCING MUST BE DONE IN THE PRESENCE OF A BUILDING ENGINEER.
- C. AIR BALANCING SHALL BE ACCOMPLISHED BY EXAMINING APPLICATION OF EACH OUTLET AND ADJUSTING AIR SUPPLY OUTLETS TO BE BALANCED TO A UNIFORM SUPPLY ACROSS ENTIRE FACE. ADJUSTMENT OF TERMINAL DAMPERS AND DEVICES SHALL BE FOR TRIM OR MINOR ADJUSTMENT ONLY. THIS SHALL BE DONE TO PERMIT THE LEAST NOISE GENERATION IN THE TERMINAL AREAS AND UTILIZE MINIMUM FAN ENERGY.
- D. WATER BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF BALANCING VALVES AT PUMPS FOR PROPER FLOW. ADJUST FLOW

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MECHANICAL SPECIFICATIONS (1 OF 3)

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- i. STANDARD EFFICIENCY UNLESS OTHERWISE NOTED.
 - ii. 1.15 SERVICE FACTOR INCLUDING MOTORS SERVED FROM A VFD
 - iii. SQUIRREL CAGE INDUCTION, OPEN DRIPPROOF TYPE, 1750 RPM, NEMA TYPE B INSULATION CLASS, CONTINUOUS DUTY, EXCEPT AS NOTED.

21. MOTOR CONTROLLERS

 - A. SUPPLIED BY HVAC CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
 - B. ENCLOSURES:
 - i. PROVIDE ENCLOSURES FOR STARTERS AND VFD'S SUITABLE FOR OPERATING ENVIRONMENT. ENCLOSURE'S SHALL BE NEMA 1 VENTILATED SHEETMETAL FOR INDOOR APPLICATION, NEMA 3R WITH ADDITIONAL GASKETING WEATHER-PROOF RAINIGHT ENCLOSURE FOR EXPOSED OUTDOOR SERVICE OR INDOOR SERVICE EXPOSED TO MOISTURE. PROVIDE DISCONNECT SWITCH ON ENCLOSURE AS REQUIRED FOR SERVICE.
 - C. WITH SOLID-STATE (ELECTRONIC) OVERLOAD PROTECTION. COORDINATE ALL MOTOR CONTROLLER TYPES AND SIZES WITH MOTOR TYPES AND SIZES.
 - D. 1/3 HP AND SMALLER: PROVIDE MANUAL STARTER EXCEPT USE MAGNETIC TYPE WHERE AUTOMATICALLY CONTROLLED.
 - i. MANUAL TYPE: 2-POLE TOGGLE SWITCH WITH OVERLOAD PROTECTION AND PILOT LIGHT.
 - E. 1/2 HP AND LARGER: PROVIDE MAGNETIC STARTER:
 - i. COMBINATION UNFUSED DISCONNECT SWITCH AND MAGNETIC STARTER EXCEPT AS NOTED.
 - ii. SOLID-STATE (ELECTRONIC) OVERLOAD PROTECTION IN EACH PHASE LEG WITH RESET IN ENCLOSURE.
 - iii. HOA SELECTOR SWITCH FOR AUTOMATICALLY OPERATED MOTORS. SAFETY CONTROLS COMMON TO BOTH CONTROLS.
 - iv. RED, GREEN AND AMBER PILOT LIGHTS.
 - v. SWITCHES: HORSE-POWER-RATED, EXTERNAL LOCKING TYPE.
 - vi. HOLDING COILS: 10 WATT, 120 VOLT.
 - vii. CONTACTS: MAIN LINE AND MINIMUM (2) – NORMALLY OPEN, (2) – NORMALLY CLOSED 10 AMP AUXILIARIES, IN ADDITION TO CONTACTS
 - viii. REQUIRED FOR CONTROLS SPECIFIED.
 - ix. CONTROL TRANSFORMER: FOR MOTORS OVER 120 VOLTS, TO STEP DOWN CONTROL VOLTAGE TO 120 VOLTS; OF THE REQUIRED CAPACITY WITH FUSE AND GROUND CONNECTION ON VOLTAGE SIDE.
 - x. FUSES: SIMILAR TO BUSSMAN.
 - xi. RELAYS: TO SUPPLEMENT AUXILIARY CONTACTS IN CONTROLLER. MINIMUM 10 WATT COIL AND TWO 10 AMP CONTACTS.
 - xii. TERMINALS: SUITABLE FOR CONDUCTORS NOTED AND AS APPROVED.
 - F. DISCONNECT SWITCHES ARE PROVIDED BY THE ELECTRICAL CONTRACTOR IF NOT INTEGRAL WITH EQUIPMENT.
 - G. ACCEPTABLE MANUFACTURERS:
 - i. EATON/ CUTLER HAMMER.
 - ii. SQUARE D.
 - iii. ALLEN BRADLEY.
 - iv. ABB

22. RIGGING

 - i. THIS CONTRACTOR SHALL SURVEY THE BUILDING AND VERIFY THE RIG PATH PRIOR TO PURCHASE OF EQUIPMENT. CONFIRM ALL EQUIPMENT FITS THROUGH ALL HALLWAYS, DOORS, ELEVATORS, WINDOWS, ETC. WITHOUT REQUIRING MAJOR ALTERATIONS TO THE EXISTING BUILDING CONDITIONS. ANY MODIFICATIONS TO EXISTING CONDITIONS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR.
 - ii. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED RIGGING, HOISTING AND BRACING TO INSTALL THE EQUIPMENT AS INDICATED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY AN INSURED CERTIFIED LICENSED RIGGING COMPANY THAT IS THE EXPERIENCED IN RIGGING EQUIPMENT OF THE TYPE INDICATED FOR THE AREAS SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS CONTRACTOR SHALL SUBMIT RIGGING PLANS FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
 - iii. ALL PERMITS REQUIRED FROM THE AUTHORITIES AND AGENCIES INVOLVED TO PERFORM THE RIGGING ARE THE RESPONSIBILITIES OF THIS CONTRACTOR.
 - iv. ALL STRUCTURAL SUPPORTS, MODIFICATIONS OR ADDITIONS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK. ALL SUPPLEMENTAL STRUCTURAL SUPPORTS, ELEVATOR CHARGES /MODIFICATIONS, BRACING AND PROTECTION REQUIRED FOR THE RIG IS THE RESPONSIBILITY OF THIS CONTRACTOR.
 - v. THE RIGGING CONTRACTOR SHALL HIRE AND PAY FOR ALL CHARGES AND SERVICES OF THE BUILDING ELEVATOR CONTRACTOR FOR THE RIGGING OF THE EQUIPMENT.

23. UP FRONT PURCHASE OF EQUIPMENT

 - i. THE CONTRACTOR SHALL SUBMIT A LIST OF LONG LEAD TIME ITEMS THAT WILL AFFECT THE SCHEDULE OF THE PROJECT IF NOT PURCHASED IMMEDIATELY UP FRONT AT THE START OF THE PROJECT. THE MECHANICAL CONTRACTOR SHALL SUBMIT PROPOSED MANUFACTURER AND LEAD TIMES FOR ALL PROJECT EQUIPMENT AT TIME OF PROJECT AWARD.

23. AUTOMATIC CONTROLS – GENERAL REQUIREMENTS

 - A. WORK INCLUDED
 - i. FURNISH AND INSTALL AS HEREIN SPECIFIED, A COMPLETE AUTOMATIC TEMPERATURE CONTROL SYSTEM. MANUFACTURER SHALL BE SUBMITTED WITH BID AND APPROVED BY ENGINEER BEFORE BID AWARD. THE ATC CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR NOT AFFILIATED WITH THE MECHANICAL CONTRACTOR.
 - ii. PROVIDE POWER FOR PANELS AND CONTROL DEVICES FROM A SOURCE DESIGNATED BY THE ELECTRICAL CONTRACTOR.
 - iii. COORDINATE INSTALLATION SCHEDULE WITH THE MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR.
 - iv. FURNISH, MOUNT, AND WIRE ALL ASSOCIATED PANELS AND DEVICES FOR THE SYSTEM TO BE COMPLETELY OPERATIONAL REGARDLESS OF FUNCTION OR VOLTAGE, UNLESS OTHERWISE STATED.
 - B. SUBMITTALS
 - i. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL LITERATURE FOR EACH CONTROL DEVICE INDICATED, LABELED WITH SETTING OR ADJUSTABLE RANGE OF CONTROL. INDICATE DIMENSIONS, CAPACITIES, PERFORMANCE CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, FINISHES FOR MATERIALS, AND INSTALLATION AND

22. EQUIPMENT

- A. PROVIDE ALL EQUIPMENT AND ACCESSORIES OF THE SIZES AND CAPACITIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.
- B. INSTALL EQUIPMENT IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, MANUFACTURERS INSTRUCTIONS AND ALL CODES AND REGULATIONS WHICH APPLY.
- C. PROVIDE EQUIPMENT SUPPORTS AND/OR MOUNTINGS AS INDICATED ON THE DRAWING, IN VIBRATION SPECIFICATION AND AS FOLLOWS:
 - i. FLOOR MOUNTED EQUIPMENT – PROVIDE DIMENSIONS FOR A 4 INCH CONCRETE HOUSEKEEPING PAD WITH ALL REQUIRED WATERPROOFING TO THE CONSTRUCTION MANAGER.
 - ii. EQUIPMENT ON FLOOR STANDS – PROVIDE FLOOR STAND OF STRUCTURAL STEEL OR STEEL PIPES AND FITTINGS ATTACHED TO FLOOR.
 - iii. ROOF MOUNTED EQUIPMENT – PROVIDE PREFABRICATED ISOLATED ROOF JURY WITH INTEGRAL VIBRATION ISOLATORS.
 - iv. CEILING MOUNTED EQUIPMENT – PROVIDE SUPPORTS WITH APPROVED SUITABLE ANCHORS SUSPENDED DIRECTLY FROM BUILDING STEEL STRUCTURE.
 - v. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE EQUIPMENT LOAD.

- vi. EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATION, REFER TO VIBRATION ISOLATION SECTION.
- D. RIGGING
- i. THIS CONTRACTOR SHALL SURVEY THE BUILDING AND VERIFY THE RIG PATH PRIOR TO PURCHASE OF EQUIPMENT. CONFIRM ALL EQUIPMENT FITS THROUGH ALL HALLWAYS, DOORS, ELEVATORS, WINDOWS, ETC. WITHOUT REQUIRING MAJOR ALTERATIONS TO THE EXISTING BUILDING CONDITIONS. ANY MODIFICATIONS TO EXISTING CONDITIONS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR.
- ii. THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED RIGGING, HOISTING AND BRACING TO INSTALL THE EQUIPMENT AS INDICATED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY AN INSURED CERTIFIED LICENSED RIGGING COMPANY THAT IS EXPERIENCED IN THE INSTALLATION OF THE TYPE INDICATED FOR THE AREAS SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS CONTRACTOR SHALL SUBMIT RIGGING PLANS FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- iii. ALL PERMITS REQUIRED FROM THE AUTHORITIES AND AGENCIES INVOLVED IN PERFORMING THE RIGGING AND ALL RESPONSIBILITIES OF THIS CONTRACTOR.
- iv. ALL STRUCTURAL SUPPORTS, BRACINGS AND REINFORCEMENTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK. ALL SUPPLEMENTAL STRUCTURAL SUPPORTS, ELEVATOR CHARGES / MODIFICATIONS, BRACING AND PROTECTION REQUIRED FOR THE RIG IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- v. THE RIGGING CONTRACTOR SHALL HIRE AND PAY FOR ALL CHARGES AND SERVICES OF THE BUILDING ELEVATOR CONTRACTOR FOR THE RIGGING OF THE EQUIPMENT.
- E. UP FRONT PURCHASE OF EQUIPMENT.

E. UP FRONT PURCHASE OF EQUIPMENT

- i. THE CONTRACTOR SHALL SUBMIT A LIST OF LONG LEAD TIME ITEMS THAT WILL AFFECT THE SCHEDULE OF THE PROJECT IF NOT PURCHASED IMMEDIATELY UP FRONT AT THE START OF THE PROJECT. THE MECHANICAL CONTRACTOR SHALL SUBMIT PROPOSED MANUFACTURER AND LEAD TIMES FOR ALL PROJECT EQUIPMENT AT TIME OF PROJECT AWARD.
- AUTOMATIC CONTROLS – GENERAL REQUIREMENTS**
- A. WORK INCLUDED**
- i. FURNISH AND INSTALL AS HEREIN SPECIFIED, A COMPLETE AUTOMATIC TEMPERATURE CONTROL SYSTEM. MANUFACTURER SHALL BE SUBMITTED WITH BID AND APPROVED BY ENGINEER BEFORE BID AWARD. THE ATC CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR NOT AFFILIATED WITH THE MECHANICAL CONTRACTOR.
- ii. PROVIDE POWER FOR PANELS AND CONTROL DEVICES FROM A SOURCE DESIGNATED BY THE ELECTRICAL CONTRACTOR.
- iii. COORDINATE INSTALLATION SCHEDULE WITH THE MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR.
- iv. FURNISH, MOUNT, AND WIRE ALL ASSOCIATED PANELS AND DEVICES FOR THE SYSTEM TO BE COMPLETELY OPERATIONAL REGARDLESS OF FUNCTION OR VOLTAGE, UNLESS OTHERWISE STATED.

B. SUBMITTALS

- i. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL LITERATURE FOR EACH CONTROL DEVICE INDICATED, LABELED WITH SET POINT OR ADJUSTABLE RANGE OF CONTROL. INDICATE DIMENSIONS, CAPACITIES, PERFORMANCE CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, FINISHES FOR MATERIALS, AND INSTALLATION AND STARTUP INSTRUCTIONS FOR EACH TYPE OF PRODUCT INDICATED.
- ii. SHOP DRAWINGS: DETAIL EQUIPMENT ASSEMBLIES AND INDICATE DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION.
 - a) SCHEMATIC FLOW DIAGRAMS SHOWING FANS, COILS, DAMPERS, VALVES, AND CONTROL DEVICES.
 - b) WIRING DIAGRAMS: POWER, SIGNAL, AND CONTROL WIRING.
 - c) DETAILS OF CONTROL PANEL FACES, INCLUDING CONTROLS, INSTRUMENTS, AND LABELING.

C. QUALITY ASSURANCE

- i. INSTALLER QUALIFICATIONS: A QUALIFIED INSTALLER WHO IS AN AUTHORIZED REPRESENTATIVE OF THE AUTOMATIC CONTROL SYSTEM MANUFACTURER FOR BOTH INSTALLATION AND MAINTENANCE OF UNITS REQUIRED FOR THIS PROJECT.
- ii. COMPLY WITH ALL CURRENT GOVERNING CODES, ORDINANCES, AND REGULATIONS INCLUDING UL, NFPA, THE LOCAL BUILDING CODE, NEC, ETC.
- iii. MATERIALS AND EQUIPMENT SHALL BE THE CATALOGUED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN PRODUCTION AND INSTALLATION OF AUTOMATIC TEMPERATURE CONTROL

SYSTEMS AND SHALL BE MANUFACTURER'S LATEST STANDARD DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS.

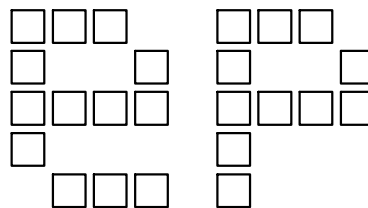
IT IS A VIOLATION FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM ON THIS PLAN IN ANY WAY PURSUANT TO NYS EDUCATION LAW, SECOND 7209(2). IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THIS ITEM HIS OR HER SEAL AND THE NOTATION "ALTERED" FOLLOWED BY HIS OR HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

THE SCALE OF THIS DRAWING IS CORRECT WHEN PRINTED ON 24x36 SIZE PAPER. ALL OTHER PAPER SIZES WILL NOT SHOW THE CORRECT SCALE.

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THIS PLAN IS APPROVED BY THE CITY ONLY FOR THE WORK INDICATED ON THE APPLICATION SHEET. ALL OTHER MATTERS ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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ISSUES:

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**ESSEX COUNTY FARMWORKER
HOUSING RENOVATION**

Firehouse
6513 MAIN STREET
Westport NY 12993

M-802.00

MECHANICAL SPECIFICATIONS (3 OF 3)

SEAL / SIGNATURE



HEATING/COOLING LOAD CALCULATION
AND EQUIPMENT SIZING NOTE:

ALL THE MECHANICAL EQUIPMENT SPECIFIED IN THIS DRAWING SET HAS BEEN DESIGNED TO SUFFICIENTLY HEAT AND COOL THE OCCUPIABLE AREAS OF THE BUILDING. REQUIRED HEATING AND COOLING DEMANDS HAVE BEEN CALCULATED IN ACCORDANCE WITH ASHRAE/ACCA 183, AND TAKE INTO ACCOUNT ALL BUILDING ENVELOPE, LIGHTING, VENTILATION & OCCUPANCY LOADS BASED ON THE PROJECT DESIGN. EQUIPMENT SELECTIONS WERE MADE TO MEET THE SYSTEM PEAK LOADS (HEATING OR COOLING).

ENERGY COMPLIANCE
STATEMENT

THE PROPOSED MECHANICAL DESIGN REPRESENTED IN THIS DOCUMENT IS CONSISTENT WITH THE BUILDING PLANS, SPECIFICATIONS AND OTHER CALCULATIONS SUBMITTED WITH THIS PERMIT APPLICATION. THE PROPOSED MECHANICAL SYSTEMS HAVE BEEN DESIGNED TO MEET THE 2020 ECCC/NYS AND TO COMPLY WITH THE MANDATORY REQUIREMENTS SET FORTH.

COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information

Energy Code: 2020 NYStretch Energy Code - 2018 IECC
Project Title: Firehouse
Location: New York, New York
Climate Zone: 4a
Project Type: Alteration

Construction Site: 6513 Main Street Westport, NY 12993
Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

- 4 Baseboard Heaters 2 kW (Single Zone)
Heating: 1 each - Unit Heater, Electric, Capacity = 7 kWh/uh
No minimum efficiency requirement applies
Fan System: Unspecified
- 5 Baseboard Heaters 1.5 kW (Single Zone)
Heating: 1 each - Unit Heater, Electric, Capacity = 5 kWh/uh
No minimum efficiency requirement applies
Fan System: Unspecified

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2020 NYStretch Energy Code - 2018 IECC, as amended by version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

GIOVANNI E. MELENDEZ - PARTNER

5/12/2023

Name - Title Signature Date



Project Title: Firehouse
Data filename: P:\2023\2023.039 - Champlain Migrant Houses\Trade Assets\Mech\Calc\Firehouse COMCheck.c Page 1 of 10
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COMcheck Software Version 4.1.5.5
Inspection Checklist

Energy Code: 2020 NYStretch Energy Code - 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR2) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11 (PR38) ³	New parking garages and new parking lots powered by the energy services for a building, and with 10 or greater parking spaces, provide either: 1. Panel capacity and conduit for the future installation of minimum 208/240V 40-amp outlets for 5 percent of the total parking spaces and not less than two parking spaces; or 2. Minimum 208/240V 40-amp outlets for 5 percent of the total parking spaces and not less than two parking spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
Data filename: P:\2023\2023.039 - Champlain Migrant Houses\Trade Assets\Mech\Calc\Firehouse COMCheck.c Page 2 of 10
Report date: 05/12/23

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 (PD9) ¹	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature, future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
Data filename: P:\2023\2023.039 - Champlain Migrant Houses\Trade Assets\Mech\Calc\Firehouse COMCheck.c Page 3 of 10
Report date: 05/12/23

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 (PL6) ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 (PL6) ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 (PL7) ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 (PL7) ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 (PL8) ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 (PL8) ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
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Report date: 05/12/23

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 (ME41) ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.11.3 (ME61) ²	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.3 (ME61) ²	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.8.1 (ME65) ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.8.1 (ME65) ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.8.3 (ME117) ²	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.3 (ME117) ²	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.12.1 (ME71) ²	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.3 (ME55) ³	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C405.8.1.1 (ME36) ³	New traction elevators with a rise of 75 feet or more have a power conversion system that complies as follows: C405.8.1.1.1 Induction motors with a Class IE2 efficiency ratings are used. C405.8.1.1.2 Transmissions does not reduce the efficiency of the combined motor/transmission below that shown for the Class IE2 motor for elevators with capacities below 4,000 lbs. C405.8.1.3 Potential energy released during motion recovered with a regenerative drive that supplies electrical energy to the building electrical system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
Data filename: P:\2023\2023.039 - Champlain Migrant Houses\Trade Assets\Mech\Calc\Firehouse COMCheck.c Page 5 of 10
Report date: 05/12/23

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C405.10 (ME37) ³	Commercial kitchen equipment shall comply with the minimum efficiency requirements of Tables C405.9(1) through table C405.9(5).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.2 (ME59) ⁴	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.1 (ME59) ⁴	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.2 (ME115) ⁴	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.6 (ME141) ³	HVAC systems serving guestrooms in Group R-3 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 (ME57) ³	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.5 (ME116) ³	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.1 (ME57) ³	HVAC ducts and plenums insulated in accordance with C403.11.1 and C403.11.2, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.4 (ME63) ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 85°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.10.1 (ME123) ³	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.12.2 (PD9) ¹	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature, future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Firehouse
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Report date: 05/12/23

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ISSUES:

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ESSEX COUNTY FARMWORKER

HOUSING RENOVATION

Stables

10 Marks Road

Westport NY 12993

EN-200.00

ENERGY COMPLIANCE CERTIFICATES (1

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