

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

Kinston, North Carolina

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NC Firm License # C-0819

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PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S. QUEEN ST.
KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

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DRAWING NAME

DRAWING INDEX & CODE SUMMARY

DRAWING NO.

G0.1

Drawn By: JDB Checked By: AEP

**DUNN &
DALTON**
ARCHITECTS

401 North Heritage Street
Kinston, North Carolina 28501

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web: dunnaldalton.com

PROJECT NO. LCO-22009



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Lenoir County Courthouse - Interior Renovation
Address: 130 South Queen Street Zip Code: 28501
Owner/Authorized Agent: Adam Short Phone #: 252-527-1523 E-Mail: adam.short@devita.com
Owned By: County
Code Enforcement Jurisdiction: City

CONTACT

| DISCIPLINE | FIRM | NAME | ADDRESS | PHONE # | EMAIL |
|---------------|--------------------------|------------------|---------------------|--------------|-------------|
| Architectural | Dunn & Dalton Architects | Russell M. Woods | 401 N. Heritage St. | 252-527-1523 | rw@dnad.com |
| Civil | | | | | |
| Electrical | | | | | |
| Fire Alarm | | | | | |
| Plumbing | | | | | |
| Mechanical | | | | | |
| Structural | | | | | |
| Roofing | | | | | |
| Other | | | | | |

* Other should include firms and individuals such as: transit, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: Select one

2018 NC EXISTING BUILDING CODE: Alteration Level II N/A N/A

CONSTRUCTED: 1981 CURRENT OCCUPANCY(S) (Ch. 3): BL/A 1-3

RENOVATED: No PROPOSED OCCUPANCY(S) (Ch. 3): BL/A 1-3

OCCUPANCY CATEGORY (Table 1604.5): Current: III Proposed: III

BASIC BUILDING DATA

Construction Type: IIA

Sprinklers: Partial NEPA 13

Standpipes: No

Primary Fire District: No Flood Hazard Area: No

Special Inspections Required: No

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one Select one Select one Select one Select one Select one

Accessory Occupancy Classification(s):

Incidental Uses (Table 509):

Special Uses (Chapter 4 - 4 List Code Sections):

Special Provisions (Chapter 5 - 5 List Code Sections):

Mixed Occupancy: Select one Separation: Select one Exception:

Select one

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1

Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 1.00

STORY NO. DESCRIPTION AND USE (A) BLDG AREA PER STORY (ACTUAL) (B) TABLE 506.2 AREA ALLOWABLE PER STORY (C) AREA FOR FOOTING INCREASE (D) ALLOWABLE AREA PER STORY (E) UNLIMITED AREA PER STORY (F) UNLIMITED AREA PER STORY (G) UNLIMITED AREA PER STORY (H) UNLIMITED AREA PER STORY (I) UNLIMITED AREA PER STORY (J) UNLIMITED AREA PER STORY (K) UNLIMITED AREA PER STORY (L) UNLIMITED AREA PER STORY (M) UNLIMITED AREA PER STORY (N) UNLIMITED AREA PER STORY (O) UNLIMITED AREA PER STORY (P) UNLIMITED AREA PER STORY (Q) UNLIMITED AREA PER STORY (R) UNLIMITED AREA PER STORY (S) UNLIMITED AREA PER STORY (T) UNLIMITED AREA PER STORY (U) UNLIMITED AREA PER STORY (V) UNLIMITED AREA PER STORY (W) UNLIMITED AREA PER STORY (X) UNLIMITED AREA PER STORY (Y) UNLIMITED AREA PER STORY (Z) UNLIMITED AREA PER STORY (AA) UNLIMITED AREA PER STORY (AB) UNLIMITED AREA PER STORY (AC) UNLIMITED AREA PER STORY (AD) UNLIMITED AREA PER STORY (AE) UNLIMITED AREA PER STORY (AF) UNLIMITED AREA PER STORY (AG) UNLIMITED AREA PER STORY 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Footnote area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = (E) (F)

b. Total Building Perimeter = (P)

c. Ratio (E/P) = (F/P)

d. W = Minimum width of public way = (W)

e. Percent of footage increase F = 100(F/P - 0.25) x W/30 = (G) (%)

1. Unlimited area applicable under conditions of Section 507.

2. Maximum Building Area = total number of stories in the building x D (maximum) stories (506.2).

3. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

4. Footnote increase is based on the unpermitted area value in Table 506.2.

ALLOWABLE HEIGHT

Building Height in Feet (Table 504.3)

Building Height in Stories (Table 504.4)

* Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

THE BUILDING HEIGHT IS NOT
AFFECTED BY THIS PROJECT.

FIRE PROTECTION REQUIREMENTS

| BUILDING ELEMENT | FIRE SEPARATION DISTANCE (FEET) | ROOF | RATING PROVIDED | DETAIL # AND SECTION | DESIGN # FOR RATED AS |
|------------------|---------------------------------|------|-----------------|----------------------|-----------------------|
|------------------|---------------------------------|------|-----------------|----------------------|-----------------------|

PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S. QUEEN ST.
KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

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DRAWING NAME

BASEMENT LIFE SAFETY PLAN

DRAWING NO.

LS1.1

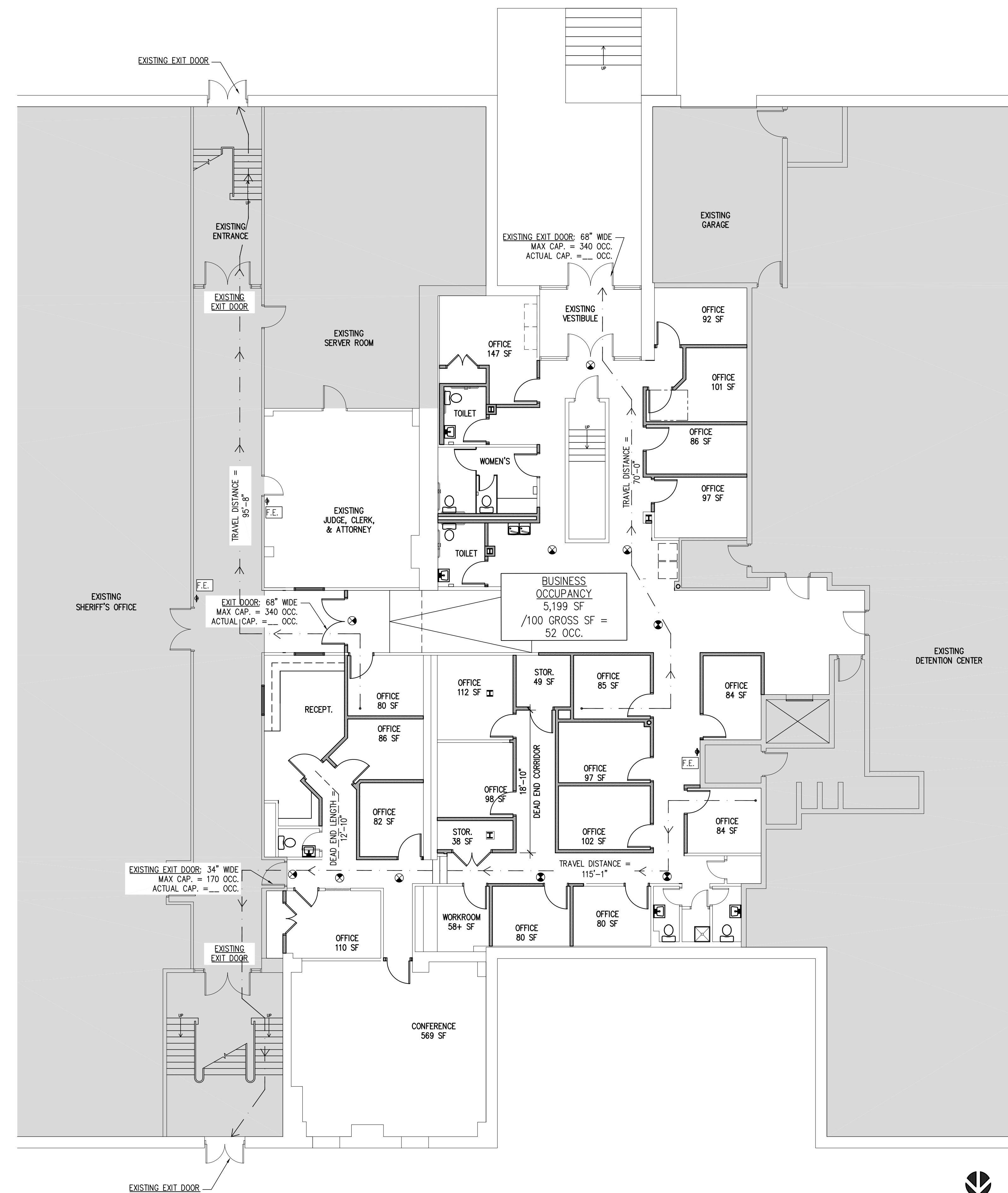
Drawn By: JDB Checked By: AEP

BUSINESS OCCUPANCY
CURRENT OCC. = 52
PROPOSED OCC. = 52

EGRESS
CURRENT EXITS = 3
PROPOSED EXITS = 3

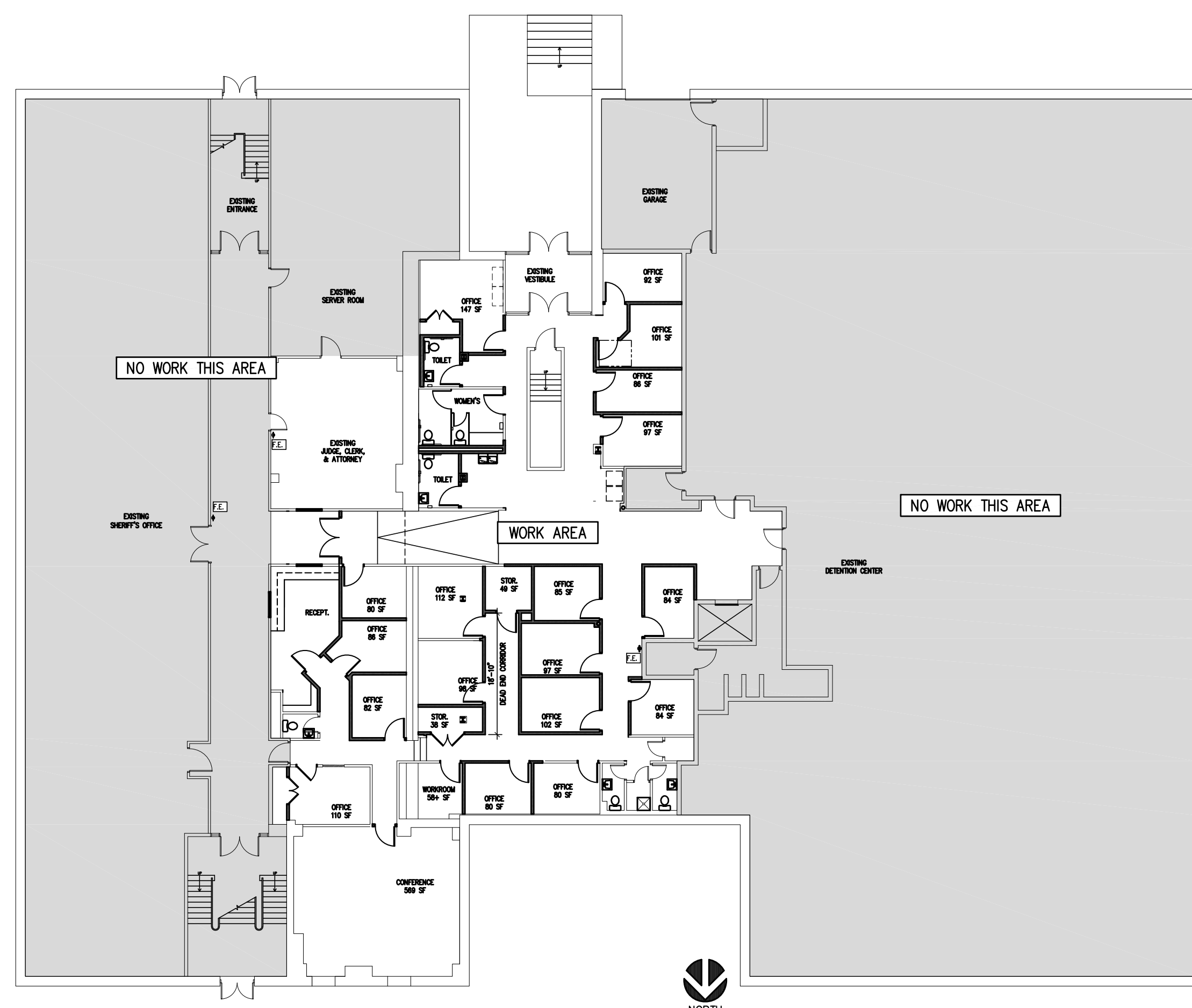
TRAVEL DISTANCE 1017.2
MAX ALLOWABLE = 200'
ACTUAL = 95'-8"

DEAD END 1020.4
MAX ALLOWABLE = 20'
ACTUAL = 18'-10"



2 DEMOLITION PLAN

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

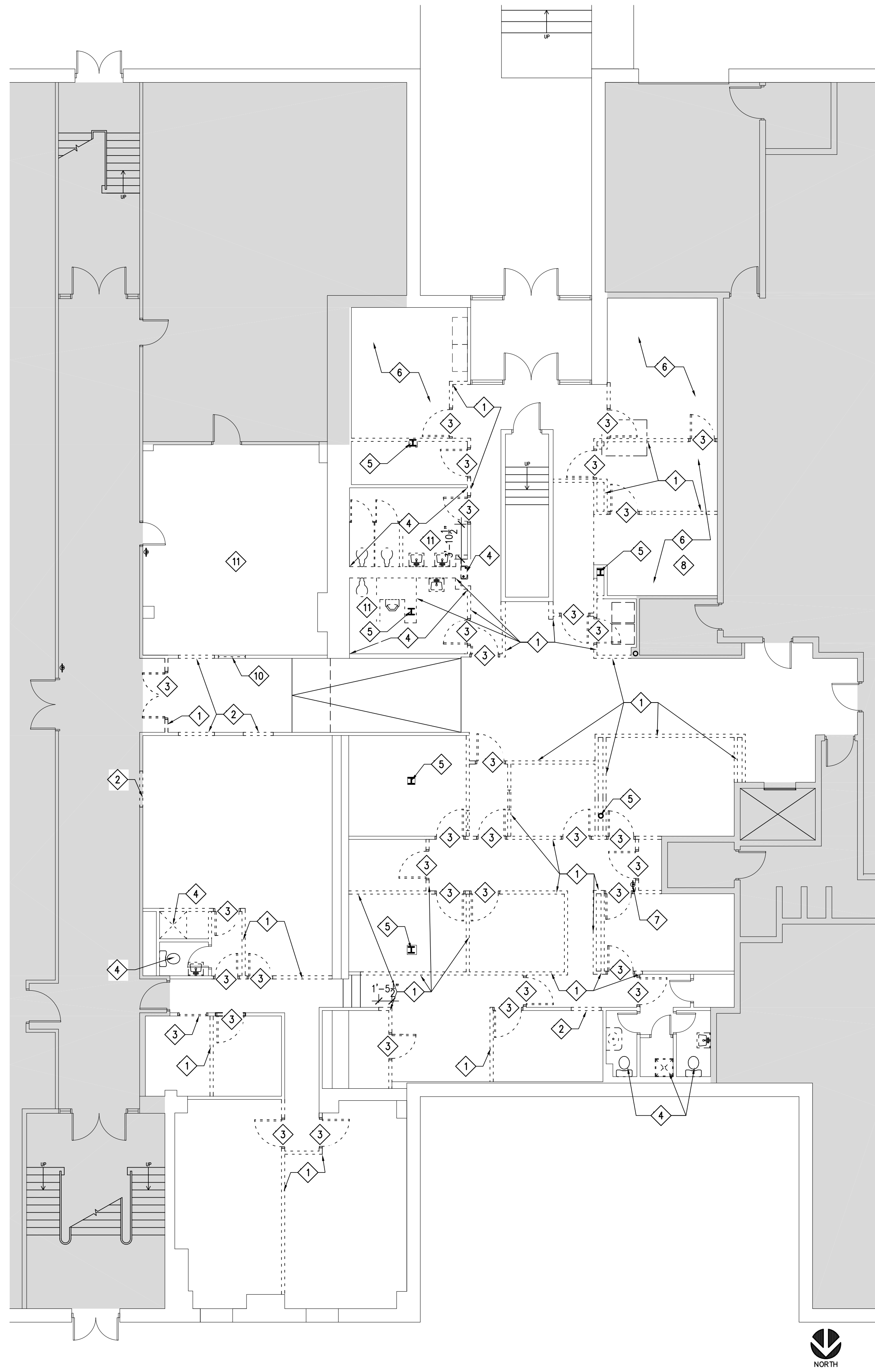


1 KEY PLAN

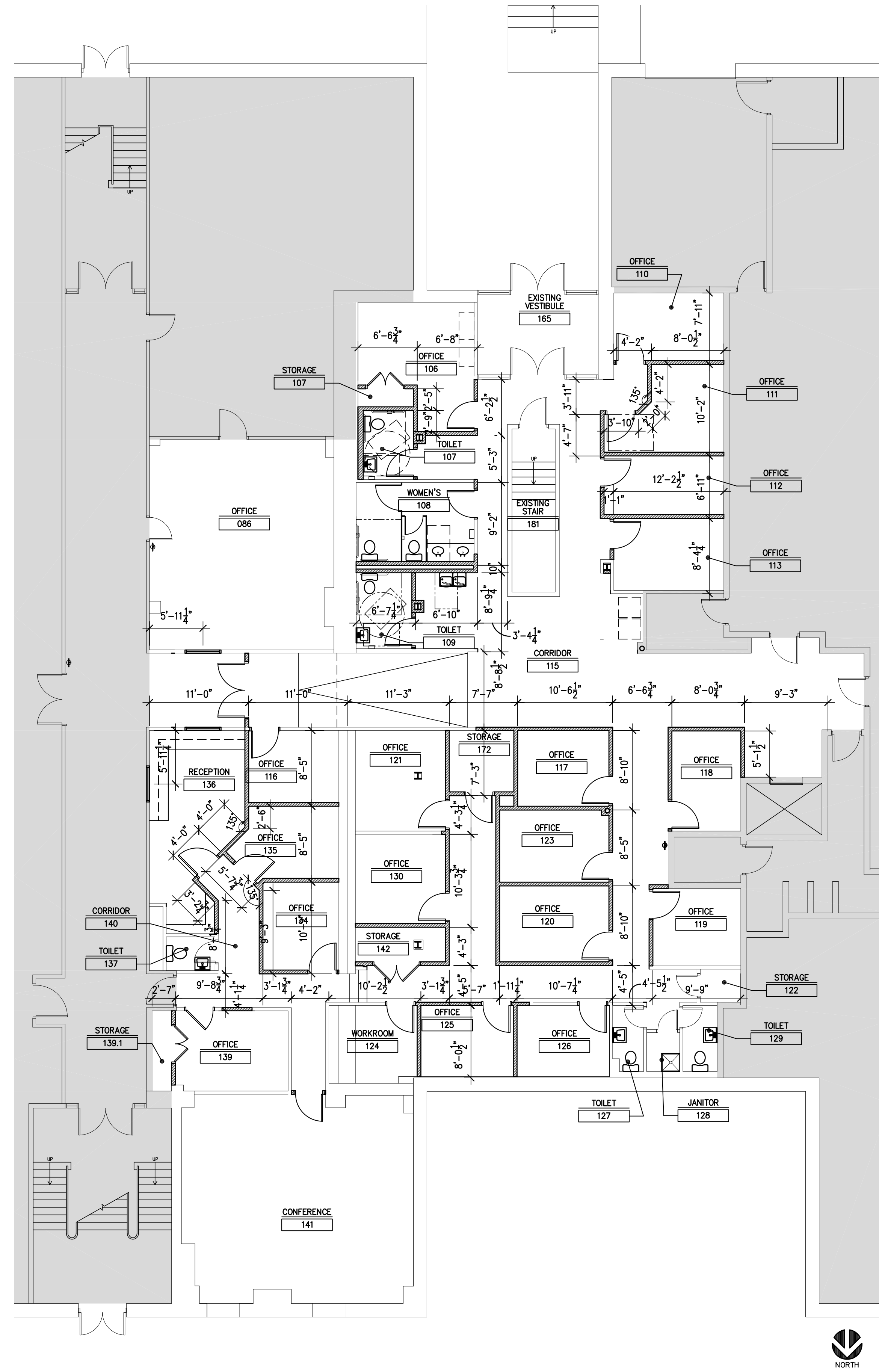
SCALE: 1/16" = 1'-0"

**DUNN &
DALTON**
ARCHITECTS
401 North Heritage Street
Kinston, North Carolina 28501
phone: 252-527-1523
web: dunndalton.com
PROJECT NO. LCO-22009





1 DEMOLITION PLAN: ALTERNATE #1 - BASEMENT RENOVATION
SCALE: 1/8" = 1'-0"



2 DIMENSION PLAN: ALTERNATE #1 - BASEMENT RENOVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. ALL CONSTRUCTION SHOWN IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROTECT ALL IN-TACT ORIGINAL CONSTRUCTION EXCEPT AS NOTED.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF WORK.
- C. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK PLAN.
- D. SPACE TO BE LEFT BROOM CLEAN AND FREE OF DIRT AND OTHER CONSTRUCTION RESIDUE, AND READY.
- E. BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. PROVIDE TEMPORARY BARRIERS TO ISOLATE CONSTRUCTION WORK AREA AND TO CONTROL DUST.
- F. ALL EXISTING FLOORING AND WALL BASE TO BE REMOVED THROUGHOUT THE WORK AREA. PREP FLOOR SLAB FOR NEW FLOOR FINISH.
- G. ALL EXISTING GYPSUM BOARD AND SUSPENDED CEILING SYSTEMS THROUGHOUT THE WORK AREA.
- H. ALL EXISTING WOOD CHAIR RAIL THROUGHOUT WORK AREA.

DEMOLITION NOTES: INDICATED BY ◊

- ◊1 REMOVE EXISTING INTERIOR PARTITION WALL AS INDICATED
- ◊2 REMOVE PORTION OF EXISTING WALL AS REQ'D FOR NEW DOOR/WINDOW OPENING, COORD. WITH NEW WORK.
- ◊3 REMOVE EXISTING DOOR AND FRAME COMPLETELY.
- ◊4 REMOVE EXISTING PLUMBING FIXTURES AND ALL ACCESSORIES COMPLETELY.
- ◊5 EXISTING COLUMN TO REMAIN, PROTECT DURING CONSTRUCTION.
- ◊6 EXISTING WOOD WALL PANELING TO BE REMOVED.
- ◊7 RELOCATE EXISTING WALL MOUNTED FIRE EXTINGUISHER, COORD. WITH NEW WORK.
- ◊8 EXISTING BUILT-UP FLOOR TO BE REMOVED.
- ◊9 EXISTING QUARRY FLOOR TILE AND UNDERLAYMENT TO BE REMOVED.
- ◊10 EXISTING WINDOW UNIT TO BE REMOVED.
- ◊11 EXISTING CEILING TILE, GRID, AND FIXTURES TO REMAIN THIS ROOM.



ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devita.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S. QUEEN ST.
KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

DEMOLITION WALL LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- - - - EXISTING CONSTRUCTION TO BE REMOVED

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DALTON**
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phone: 252-527-1523
web: dunnaldton.com

PROJECT NO. LCO-22009



DRAWING NAME

**BASEMENT
DEMOLITION &
DIMENSION PLANS**

DRAWING NO.

A1.1

Drawn By: JDB Checked By: AEP

GENERAL NOTES:

- A. ALL CONSTRUCTION SHOWN IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF WORK.
- C. PROVIDE 5/8" GYPSUM WALL BOARD INFILL AT BAS EOP ALL EXISTING WALLS THROUGHOUT THE WORK AREA.
- D. PROVIDE NEW PAINT FINISH ALL WALLS IN WORK AREA UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- ① FURNITURE & EQUIPMENT BY OTHERS, TYP.
- ② EXISTING COLUMN, WHERE EXPOSED FURR OUT AND FINISH WITH 5/8" GWB
- ③ ALIGN NEW WALL WITH EXISTING CONSTRUCTION
- ④ HIGH-LOW DRINKING FOUNTAIN, SEE DETAILS BE/AS.1
- ⑤ 12" ADJUSTABLE SHELVES (QTY 5)
- ⑥ EXISTING FIRE EXTINGUISHER
- ⑦ RELOCATED FIRE EXTINGUISHER
- ⑧ PROVIDE FLOOR LEVELING AT AREA OF REMOVED QUARRY TILE AS REQUIRED FOR FLUSH FLOOR LEVEL TO ADJACENT AREAS.
- ⑨ PROVIDE RUBBER STAIR TREAD AND RISERS AT EXISTING STEPS.



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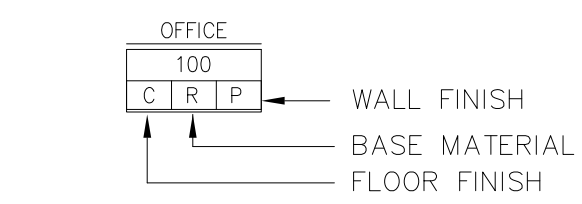
PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S. QUEEN ST.
KINSTON, NC 28501

ROOM FINISH LEGEND



THE ABOVE SYMBOL INDICATES THE GENERAL SURFACE FINISHED FOR EACH ROOM. FOR ROOMS WITH MULTIPLE FINISHES, SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR MATERIAL EXTENTS.

SEE SPECIFICATIONS FOR BASIS OF DESIGN MATERIALS.

WALL FINISH

| | |
|-----|--------------------------|
| P | PAINTED GYPSUM BOARD |
| EP | EPOXY PAINTED GYPSUM BD |
| FRP | FRP BD OVER GYPSUM BOARD |

BASE MATERIAL

| | |
|---|---------------------|
| R | 6" RUBBER COVE BASE |
|---|---------------------|

FLOOR FINISH

| | |
|-----|------------------------|
| VCT | VINYL COMPOSITION TILE |
| CPT | CARPET TILE |

CEILING FINISH

| | |
|-----|-------------------------|
| ACT | ACOUSTICAL CEILING TILE |
|-----|-------------------------|

WALL LEGEND

ALL WALLS ARE TYPE A, U.N.O.

- EXISTING TO REMAIN
- NEW INTERIOR PARTITION: 3 5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYP. BD. BOTH SIDES (WATER RESISTANT GYP. BD. INSIDE TOILET ROOMS). MATCH ADJACENT CONSTRUCTION.
- NEW INTERIOR PARTITION: 6 METAL STUDS @ 16" O.C. W/ 5/8" GYP. BD. BOTH SIDES (WATER RESISTANT GYP. BD. INSIDE TOILET ROOMS). MATCH ADJACENT CONSTRUCTION.

REVISIONS

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DRAWING NAME

**BASEMENT
REFERENCE PLAN &
REFLECTED CEILING
PLAN**

DRAWING NO.

A1.2

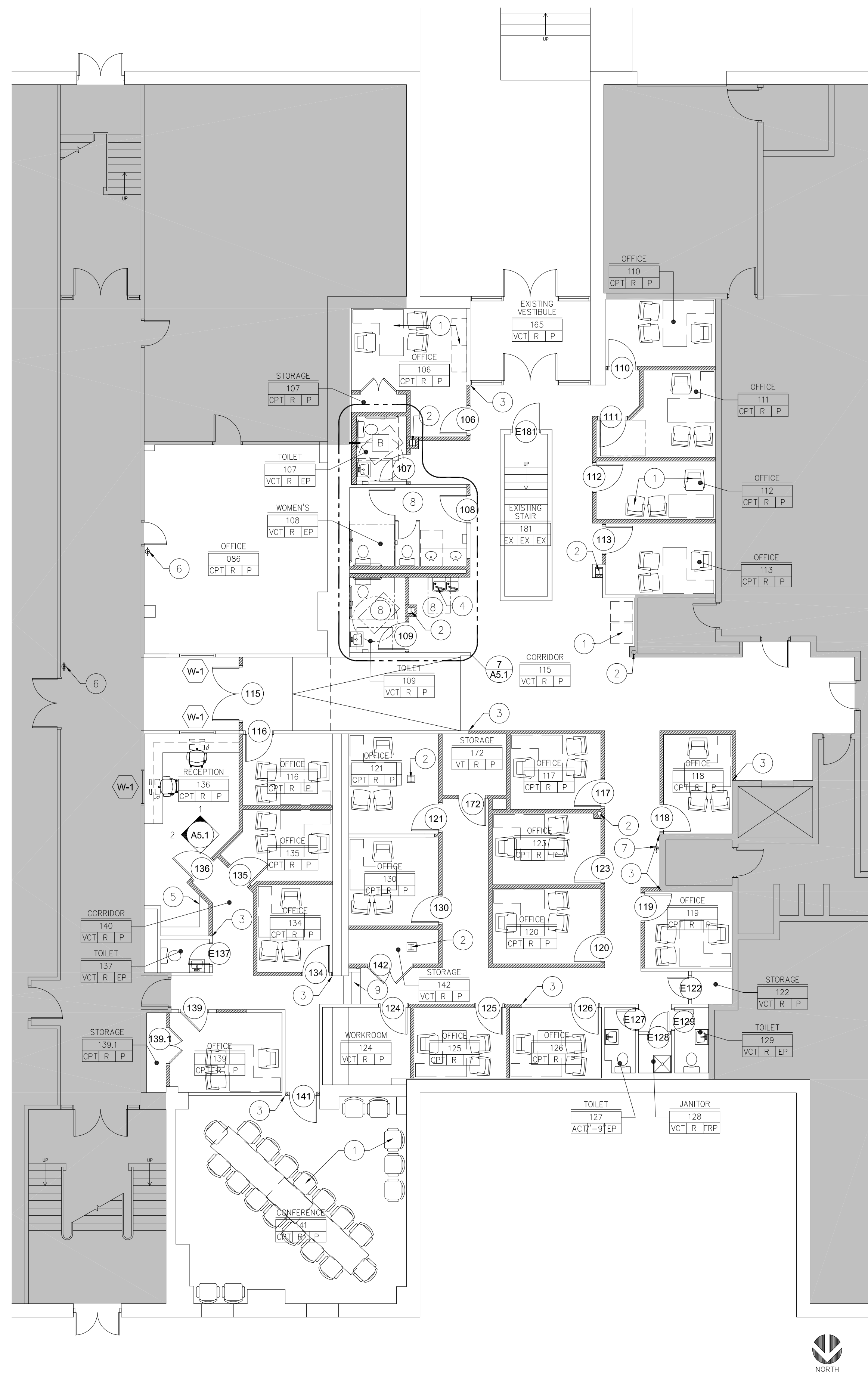
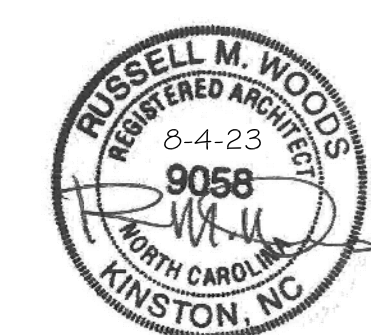
Drawn By: JDB Checked By: AEP

**DUNN &
DALTON**
ARCHITECTS

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Kinston, North Carolina 28501

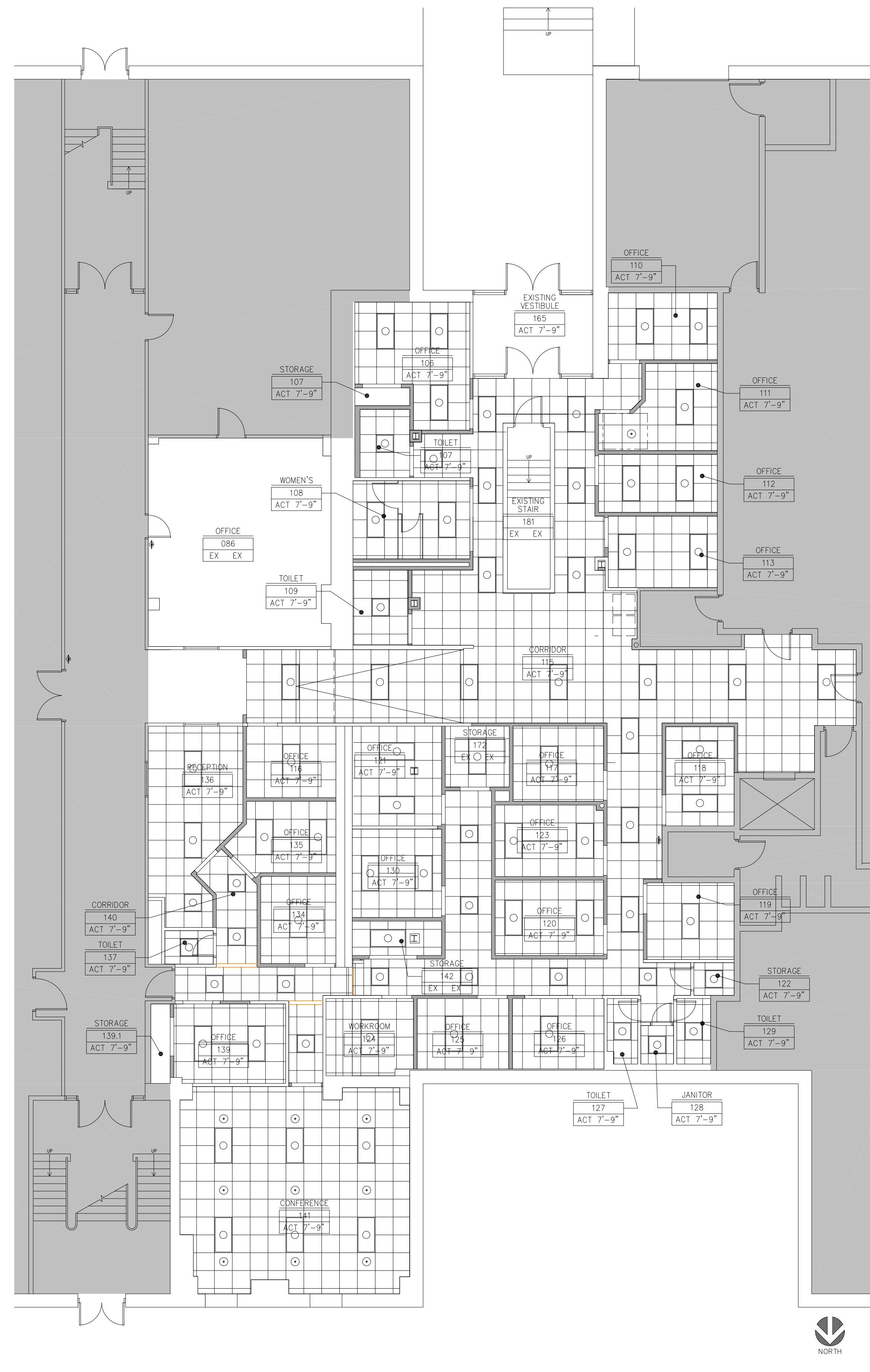
phone: 252-527-1523
web: dunnaldalton.com

PROJECT NO. LCO-22009



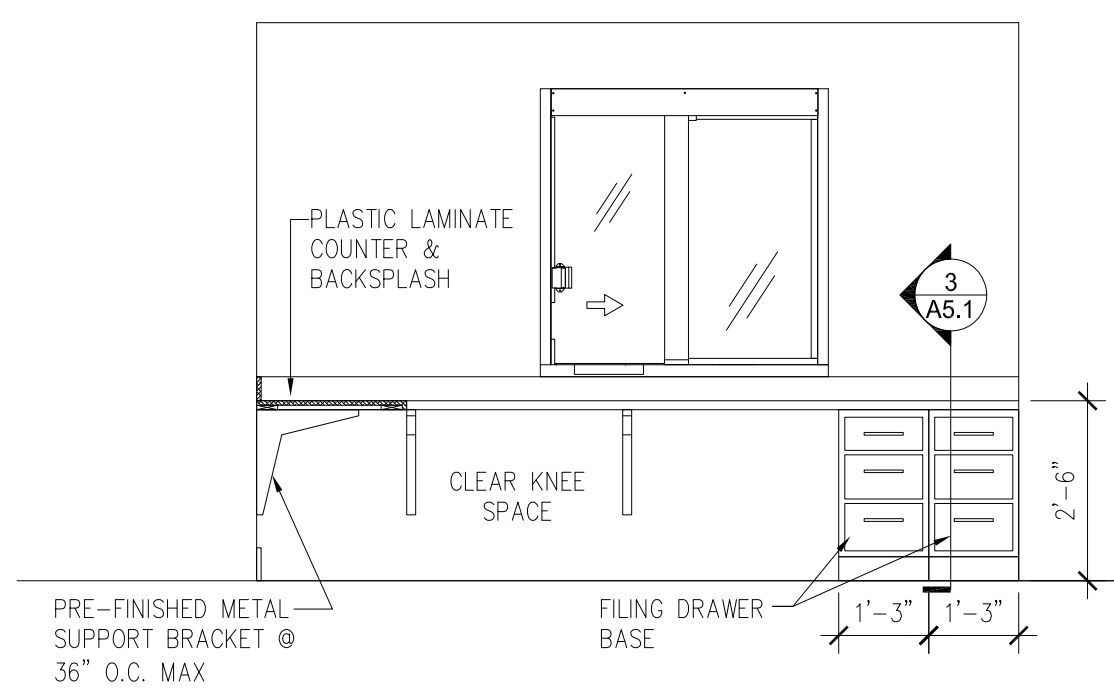
1 REFERENCE PLAN: ALTERNATE #1 - BASEMENT RENOVATION

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

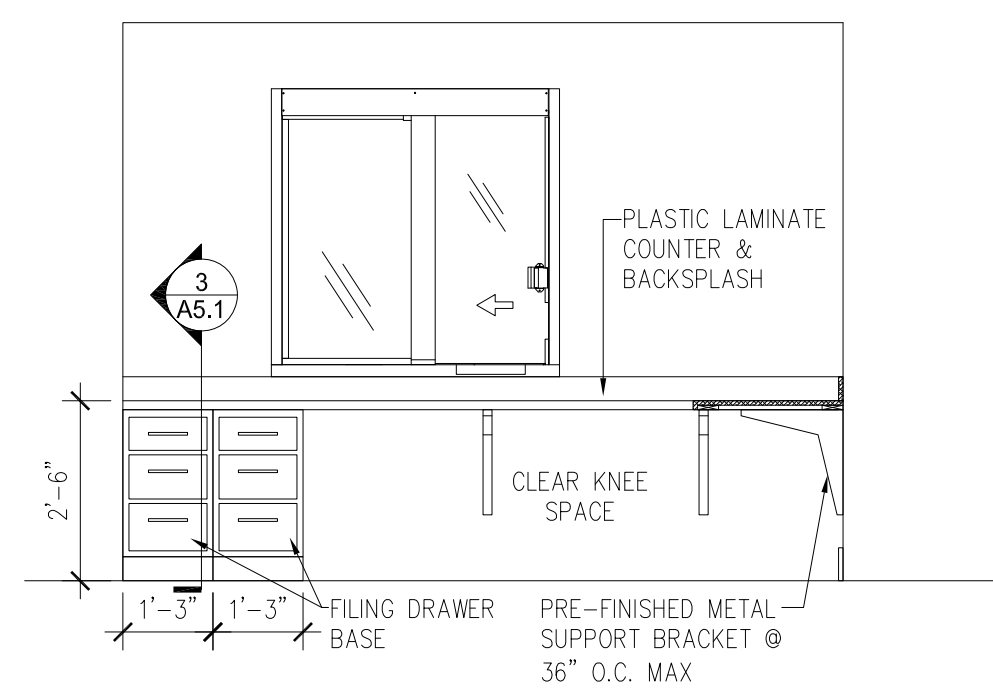


2 REFLECTED CEILING PLAN: ALTERNATE #1 - BASEMENT RENOVATION

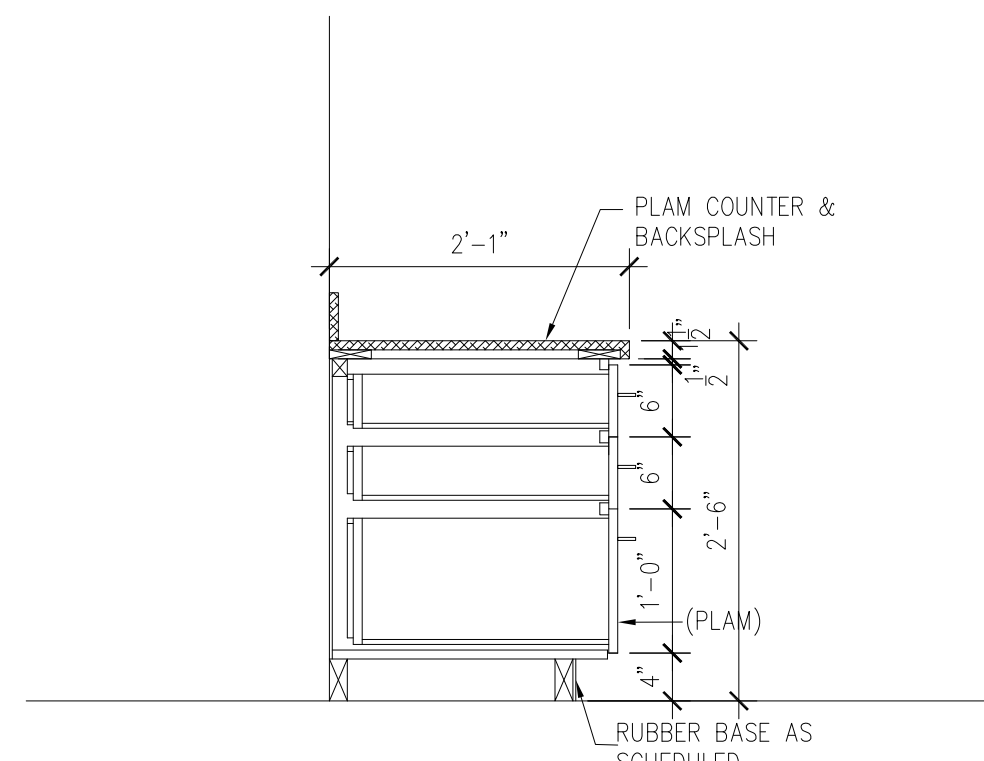
SCALE: 1/8" = 1'-0"



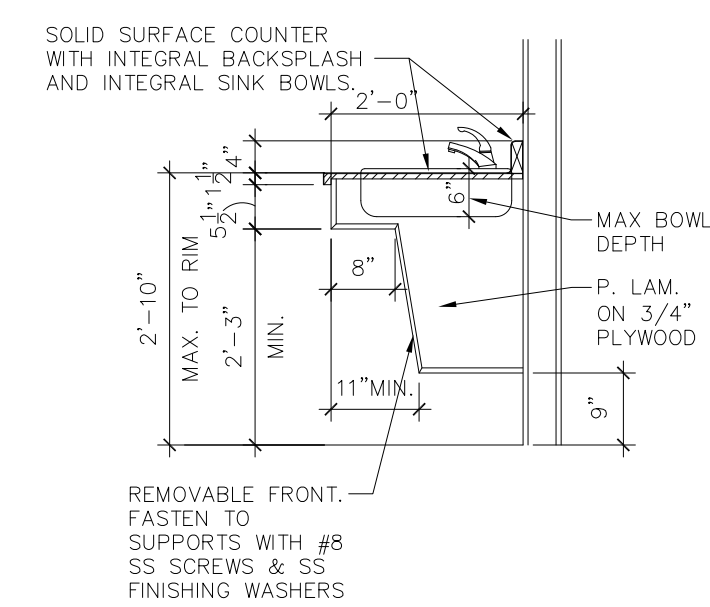
1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



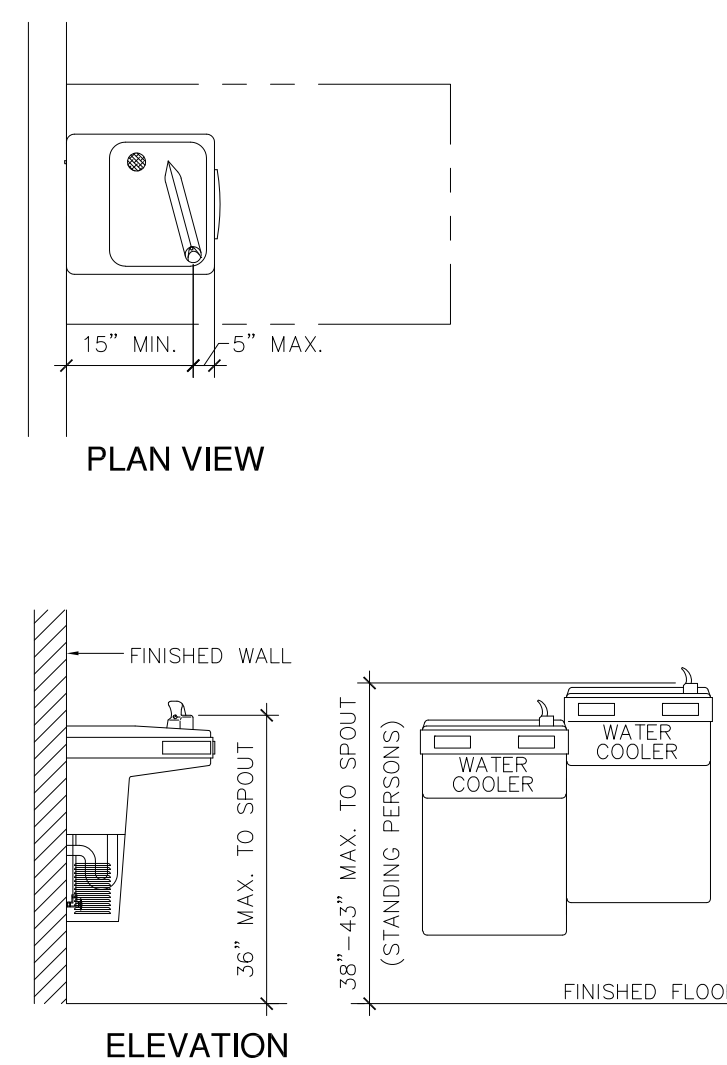
2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



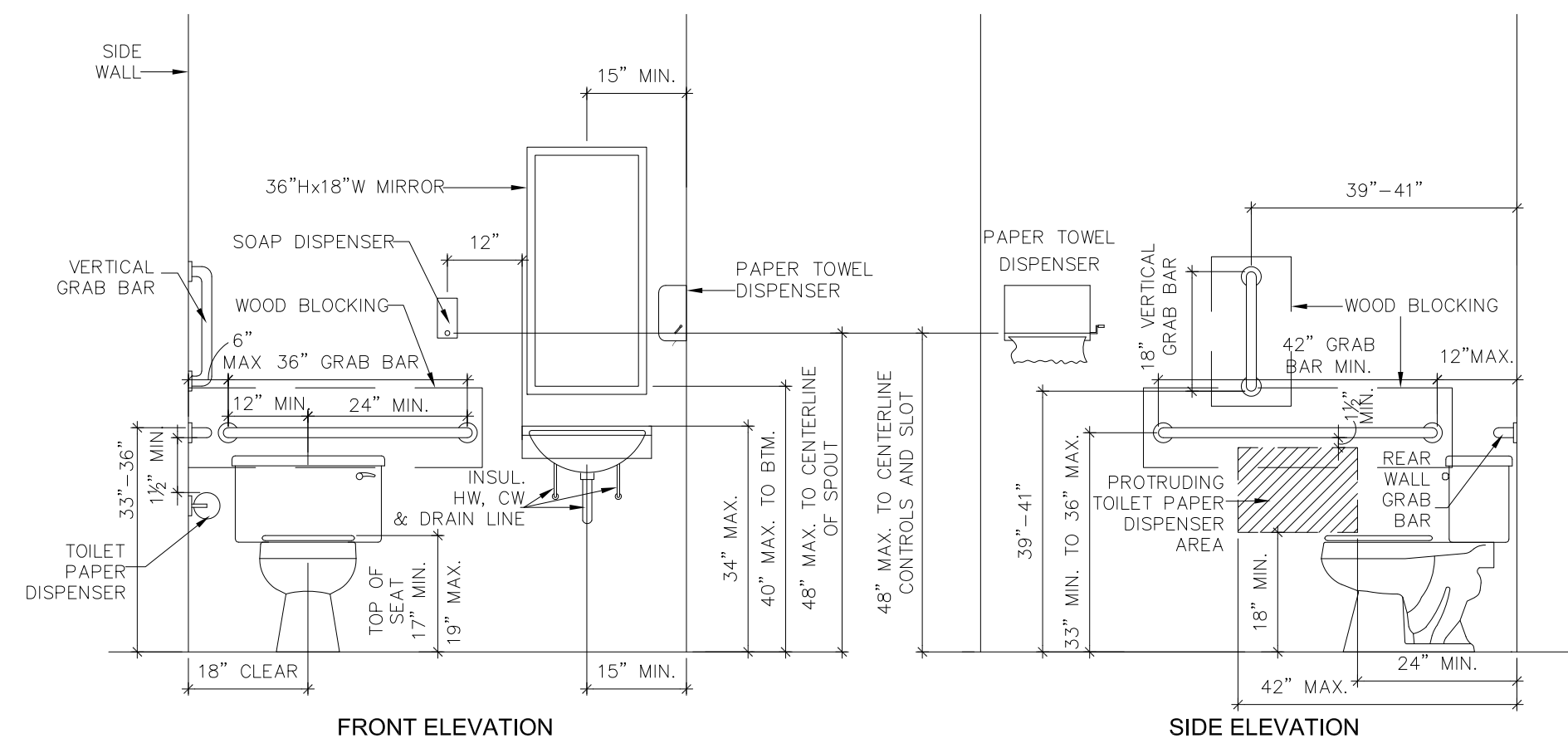
3 CABINET SECTION
SCALE: 3/8" = 1'-0"



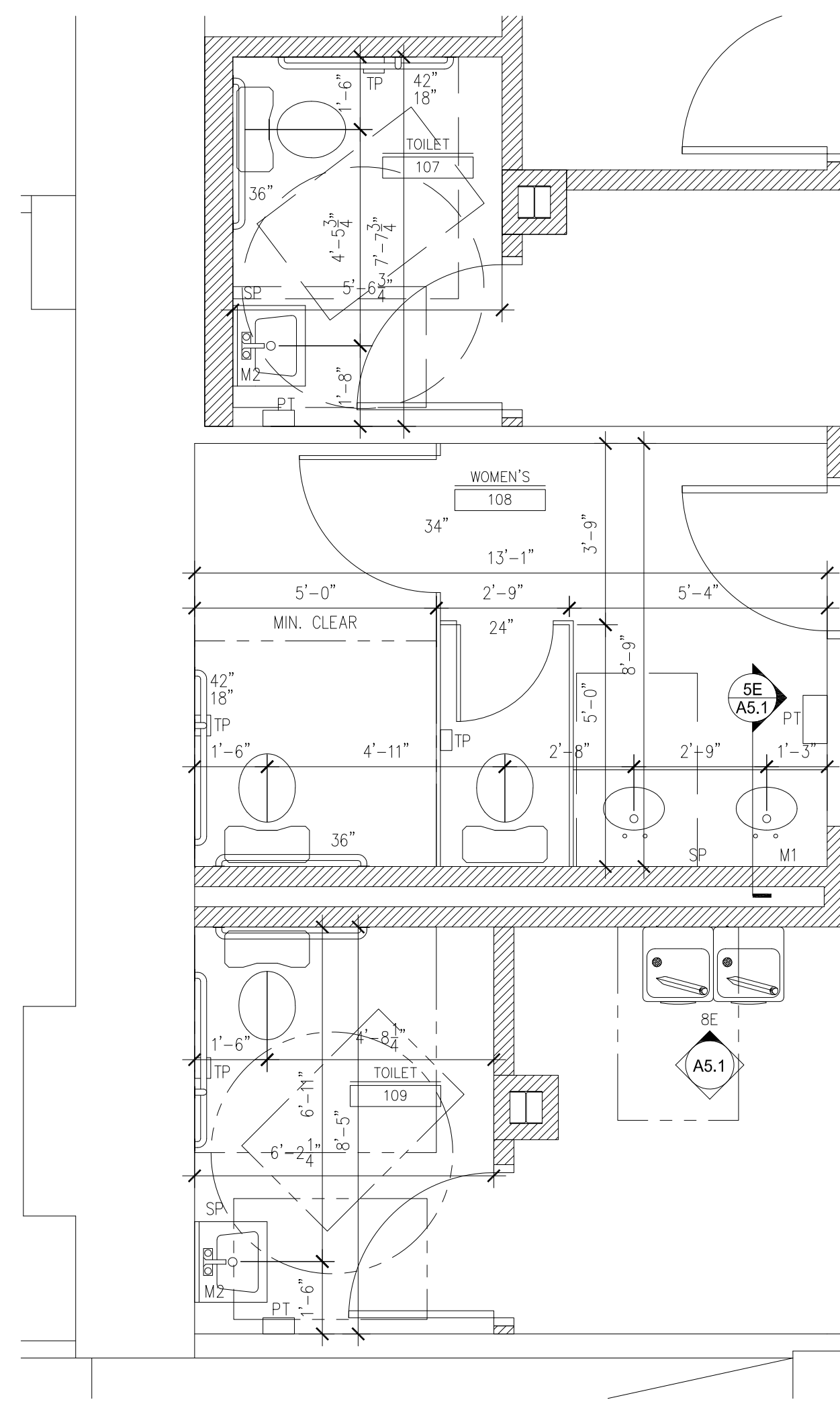
4 ADA LAVATORY SECTION
SCALE: 1/2" = 1'-0"



5 ADA DRINKING FOUNTAIN DETAILS
SCALE: 1/2" = 1'-0"



6 ADA ACCESSORY DETAILS
SCALE: N.T.S.



7 ENLARGED TOILET ROOM PLAN
SCALE: 3/8" = 1'-0"

| SET 2.2A: INT. ALUM. PUSH/PULL SGL | | SET # 2.4A: INTERIOR OFFICE SINGLE | |
|-------------------------------------|---------------------------|-------------------------------------|----------------------|
| QTY. | DESCRIPTION | QTY. | DESCRIPTION |
| 1 | PR. OFFSET HINGES | 1-1/2 | PAIR BUTTS |
| 1 | PUSH/PULL SET | 1 | ENTRY/OFFICE LOCKSET |
| 1 | CLOSER | 1 | CLOSER (WHERE NOTED) |
| 1 | DOOR STOP | 1 | DOOR STOP |
| 1 | SET SILENCERS | 1 | SET SILENCERS |
| SET # 2.5A: INTERIOR UTILITY SINGLE | | SET # 2.6A: INTERIOR STORAGE SINGLE | |
| QTY. | DESCRIPTION | QTY. | DESCRIPTION |
| 1-1/2 | PAIR BUTTS | 1-1/2 | PAIR BUTTS |
| 1 | CLASSROOM/UTILITY LOCKSET | 1 | STORAGE LOCKSET |
| 1 | CLOSER (WHERE NOTED) | 1 | CLOSER (WHERE NOTED) |
| 1 | DOOR STOP | 1 | DOOR STOP |
| 1 | SET SILENCERS | 1 | SET SILENCERS |
| SET # 2.6B: INTERIOR STORAGE DOUBLE | | SET # 2.7A: INTERIOR PRIVACY SINGLE | |
| QTY. | DESCRIPTION | QTY. | DESCRIPTION |
| 3 | PAIR BUTTS | 1-1/2 | PAIR BUTTS |
| 1 | STORAGE LOCKSET | 1 | PRIVACY SET |
| 1 | FLUSH BOLTS & DUMMY TRIM | 1 | CLOSER |
| 2 | CLOSER (WHERE NOTED) | 1 | DOOR STOP |
| 2 | DOOR STOP | 1 | SET SILENCERS |
| 2 | SET SILENCERS | | |
| SET # 2.8B: INTERIOR PASSAGE DOUBLE | | | |
| QTY. | DESCRIPTION | | |
| 3 | PAIR BUTTS | | |
| 1 | PASSAGE SET | | |
| 1 | FLUSH BOLTS & DUMMY TRIM | | |
| 2 | CLOSER (WHERE NOTED) | | |
| 2 | DOOR STOP | | |
| 2 | SET SILENCERS | | |

SIGNAGE NOTES

SIGNAGE: PER DOOR SCHEDULE, GENERAL CONTRACTOR TO FURNISH AND INSTALL WALL MOUNTED INJECTION MOLDED ROOM IDENTIFICATION SIGNS, W/ RAISED TACTILE GRAPHICS & BRAILLE, AND WHITE TEXT ON CONTRASTING BACKGROUND, IN COMPLIANCE W/ ICC-ANSI A117.1. (COLOR TO BE AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD FINISHES). PROVIDE SIGNS AS FOLLOWS:

- 1. TOILETS: "MEN" & "WOMEN", WITH ADA COMPLIANT PICTOGRAM.

TOILET ACCESSORIES SCHEDULE

| ITEM | QUANTITY | NOTE |
|-------|----------|--|
| RM. # | 107 | GENERAL CONTRACTOR TO FURNISH AND INSTALL WALL MOUNTED INJECTION MOLDED ROOM IDENTIFICATION SIGNS (MEN & WOMEN) WITH ADA COMPLIANT PICTOGRAM, RAISED TACTILE GRAPHICS, AND BRAILLE; WHITE TEXT ON BLUE BACKGROUND. TOILET PARTITIONS TO BE FLOOR MOUNTED, OVERHEAD BRACED SOLID PANEL HOPE. |
| PT | 1 | |
| TP | 1 | |
| GB | 1 SET | |
| M1 | - | |
| M2 | 1 | |
| SP | 1 | |
| | 1 | |

LEGEND

| | | | |
|----|-------------------------|----|-------------------------------------|
| PT | PAPER TOWEL DISPENSER | GB | GRAB BARS |
| TP | TOILET TISSUE DISPENSER | M1 | MIRROR: 36"XVANITY LENGTH FRAMELESS |
| SP | SOAP DISPENSER | M2 | MIRROR: 18"X36" W/ FRAME |

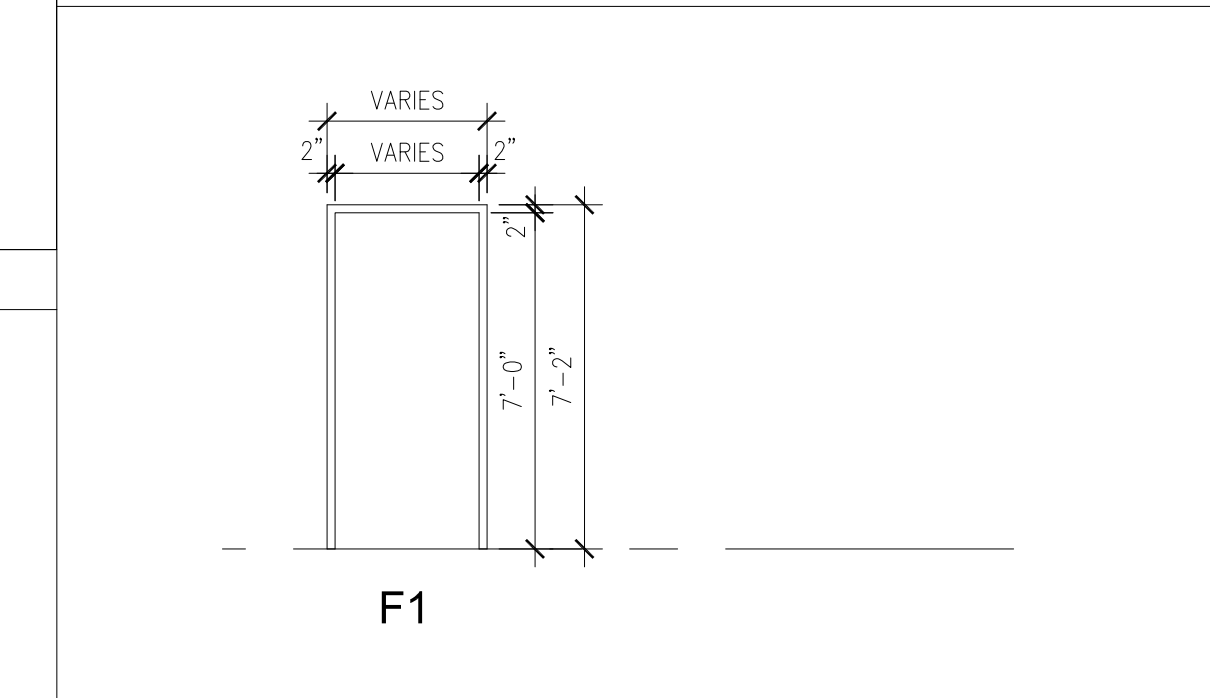
DOOR SCHEDULE

| NO. | SIZE | DOOR | TYPE | MAT. | FINISH | FRAME | MAT. | FINISH | FIRE RATING | HARDWARE SET | REMARKS | | |
|-------|---|--------|------|------|--------|-------|------|--------|-------------|--------------|------------|---------|----------|
| 106 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 107 | 3'-0" x 7'-0" | 1 3/4" | A | SCW | P | F1 | HM | P | | 2.7A | RESTROOM | | |
| 108 | 3'-0" x 7'-0" | 1 3/4" | A | SCW | P | F1 | HM | P | | 2.7A | RESTROOM | | |
| 109 | 3'-0" x 7'-0" | 1 3/4" | A | SCW | P | F1 | HM | P | | 2.7A | RESTROOM | | |
| 110 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 111 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 113 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 113 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 115 | 6'-0" x 7'-0" | 1 3/4" | 2B | HM | P | F1 | HM | P | | 2.8B | CORRIDOR | | |
| 116 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 117 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 118 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 119 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 120 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 121 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| E122 | EXISTING DOOR & FRAME, NEW PAINT FINISH | | | | | | | | | | 2.6A | STORAGE | |
| 123 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 124 | 3'-0" x 7'-0" | 1 3/4" | A | SCW | P | F1 | HM | P | | 2.5A | WORKROOM | | |
| 125 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 126 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| E127 | EXISTING DOOR & FRAME, NEW PAINT FINISH | | | | | | | | | | 1 | 2.7A | RESTROOM |
| E128 | EXISTING DOOR & FRAME, NEW PAINT FINISH | | | | | | | | | | 2.6A | STORAGE | |
| E129 | EXISTING DOOR & FRAME, NEW PAINT FINISH | | | | | | | | | | 1 | 2.7A | RESTROOM |
| 130 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 134 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 135 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 136 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.5A | RECEPTION | | |
| E137 | EXISTING DOOR & FRAME, NEW PAINT FINISH | | | | | | | | | | 1 | 2.7A | RESTROOM |
| 139 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.4A | OFFICE | | |
| 139.1 | 4'-0" x 7'-0" | 1 3/4" | 2A | SCW | P | F1 | HM | P | | 2.6B | STORAGE | | |
| 141 | 3'-0" x 7'-0" | 1 3/4" | B | SCW | P | F1 | HM | P | | 2.5A | CONFERENCE | | |
| 142 | 6'-0" x 7'-0" | 1 3/4" | 2A | SCW | P | F1 | HM | P | | 2.6B | STORAGE | | |
| 172 | 3'-0" x 7'-0" | 1 3/4" | A | SCW | P | F1 | HM | P | | 2.6A | STORAGE | | |

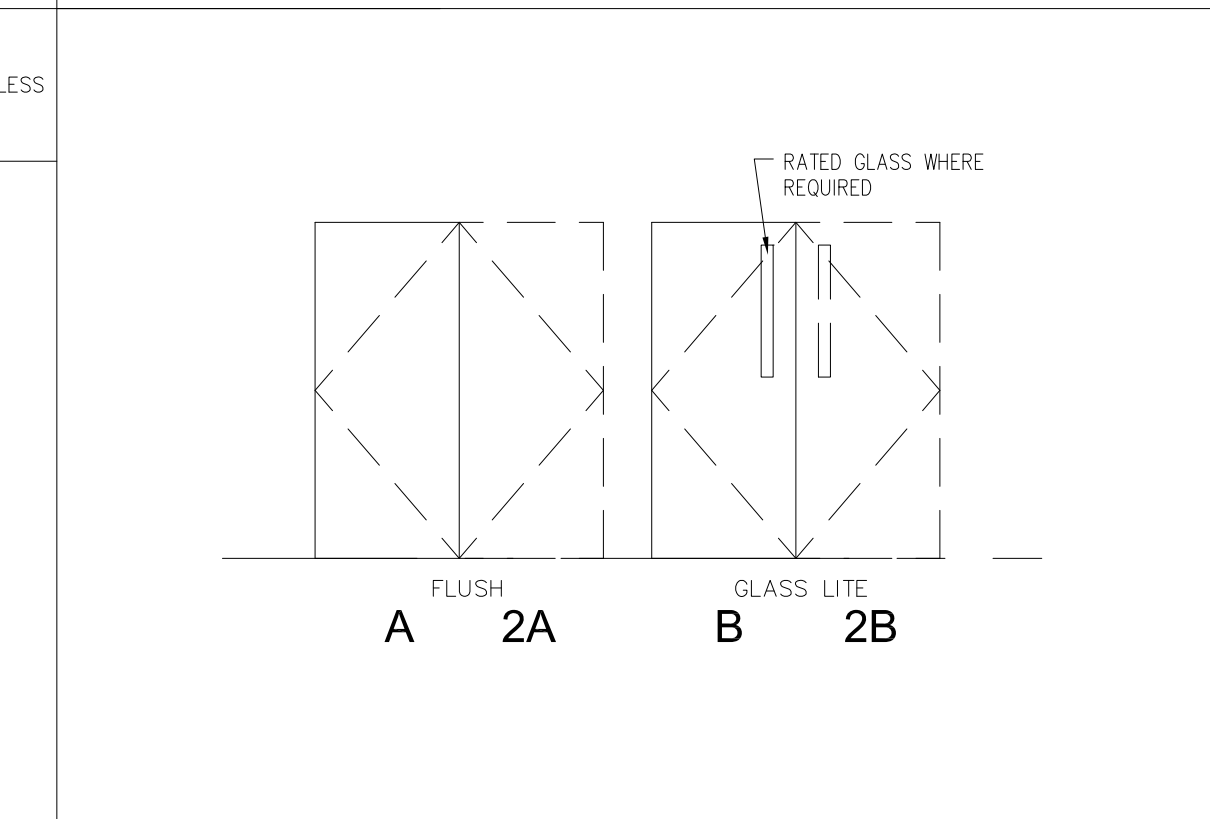
LEGEND

| | | | |
|-----|-----------------|----|-------------------|
| SCW | SOLID CORE WOOD | P | PAINTED |
| HM | HOLLOW METAL | TR | TRANSPARENT STAIN |

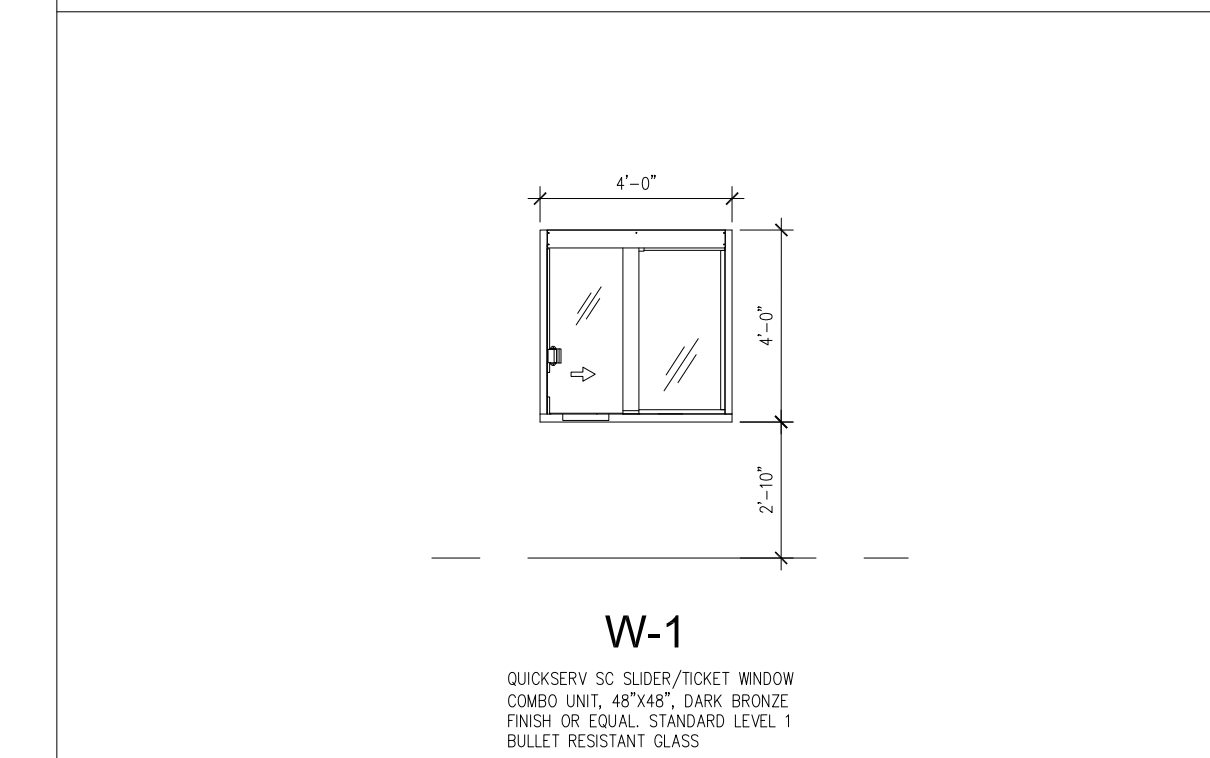
FRAME TYPES



FRAME TYPES



FRAME TYPES



QUICKERIE SC SLIDES/PINET WINDOW COVER UNIT, 48"X48", DARK BRONZE FINISH OR EQUAL, STANDARD LEVEL 1 BULLET RESISTANT GLASS.

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DUNN & DALTON ARCHITECTS
401 North Heritage Street
Kinston, North Carolina 28501
phone: 252-527-1523
web: dunnaldton.com
PROJECT NO. LCO-22009

RUSSELL M. WOODS REGISTERED ARCHITECT
3-4-23
9058
NORTH CAROLINA
KINSTON, NC

REVISIONS

| NO. | DATE | DESCRIPTION |
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| | | |

DRAWING NAME
DOOR SCHEDULE CASEWORK DETAILS ADA DETAILS

DRAWING NO.
A5.1

Drawn By: JDB Checked By: AEP

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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S. QUEEN ST.
KINSTON, NC 28501



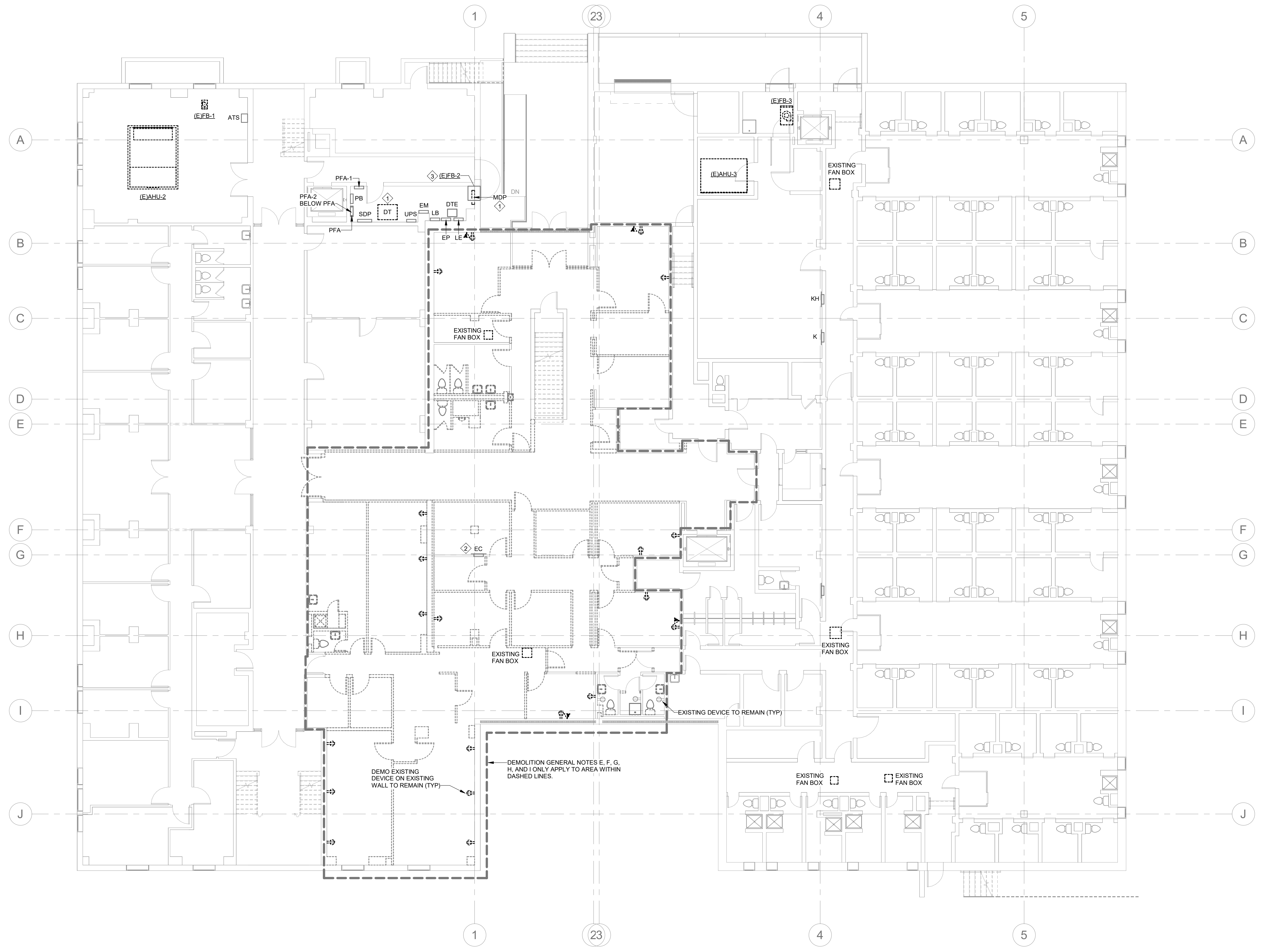
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- B. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT ANY DAMAGE TO THE FACILITY THAT COULD BE REASONABLY CONTRIBUTED TO THEIR WORK EFFORT AND PROVIDE REPORT TO THE ENGINEER AND OWNER FOR CONFIRMATION. ANY DAMAGE THAT IS IDENTIFIED AFTER THE COMMENCEMENT OF WORK WILL BE CONTRIBUTED TO THE CONTRACTOR'S EFFORTS, AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- C. REMOVE EXISTING ELECTRICAL CONNECTION TO DEMOLISHED MECHANICAL EQUIPMENT. REMOVE ALL ASSOCIATED WIRING AND ACCESSIBLE CONDUIT BACK TO NEAREST SOURCE. IF NO OTHER DEVICES EXIST ON CIRCUIT THEN REMOVE WIRING AND ACCESSIBLE CONDUIT BACK TO PANEL. MARK CIRCUIT BREAKER FEEDING UNIT AS SPARE.
- D. REPAIR ALL AFFECTED AREAS TO LIKE-NEW CONDITION. CONTRACTOR TO VERIFY CONDITION OF ANY DAMAGED AREAS AND REPAIR OR REPLACE ITEMS AS NECESSARY.
- E. REMOVE ALL EXISTING POWER DEVICES MOUNTED ON WALLS TO BE DEMO. REMOVE ALL WIRING AND ACCESSIBLE CONDUIT BACK TO NEAREST SOURCE. IF NO OTHER DEVICES EXISTING ON CIRCUIT THEN REMOVE ALL WIRING BACK TO PANEL AND MARK CIRCUIT BREAKER AS SPARE.
- F. REMOVE ALL EXISTING DATA DEVICES MOUNTED ON WALLS TO BE DEMO. REMOVE ALL WIRING AND ACCESSIBLE CONDUIT BACK TO NEAREST SOURCE.
- G. REMOVE ALL EXISTING LIGHT FIXTURES, LIGHT SWITCHES, AND LOW VOLTAGE DEVICES MOUNTED ON WALLS AND CEILINGS TO BE DEMO. REMOVE ALL WIRING AND ACCESSIBLE CONDUIT BACK TO NEAREST SOURCE.
- H. PROVIDE COVER PLATE FOR DEMOLISHED POWER AND DATA DEVICES LOCATED ON EXISTING WALLS TO REMAIN, WHERE THE LOCATION IS NOT REUSED FOR NEW DEVICES.
- I. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR CEILINGS TO BE DEMO.
- J. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR REQUIRED PHASING OF WORK.

DEMO PLAN NOTES:

- 1. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND/OR REPLACED. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E02.
- 2. SECTION OF WALL CONTAINING PANEL 'EC' TO REMAIN.
- 3. EXISTING HVAC EQUIPMENT TO REMAIN. MAINTAIN EXISTING CIRCUIT.



1 ELECTRICAL BASEMENT DEMO PLAN
 DE1.0
 1/8" = 1'-0"
 0 8 16 24

PROJECT NUMBER: 22175-03
 CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
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DRAWING NAME
ELECTRICAL BASEMENT DEMOLITION PLAN

DRAWING NO.
DE1.0

Drawn By: RHV Checked By: KCW



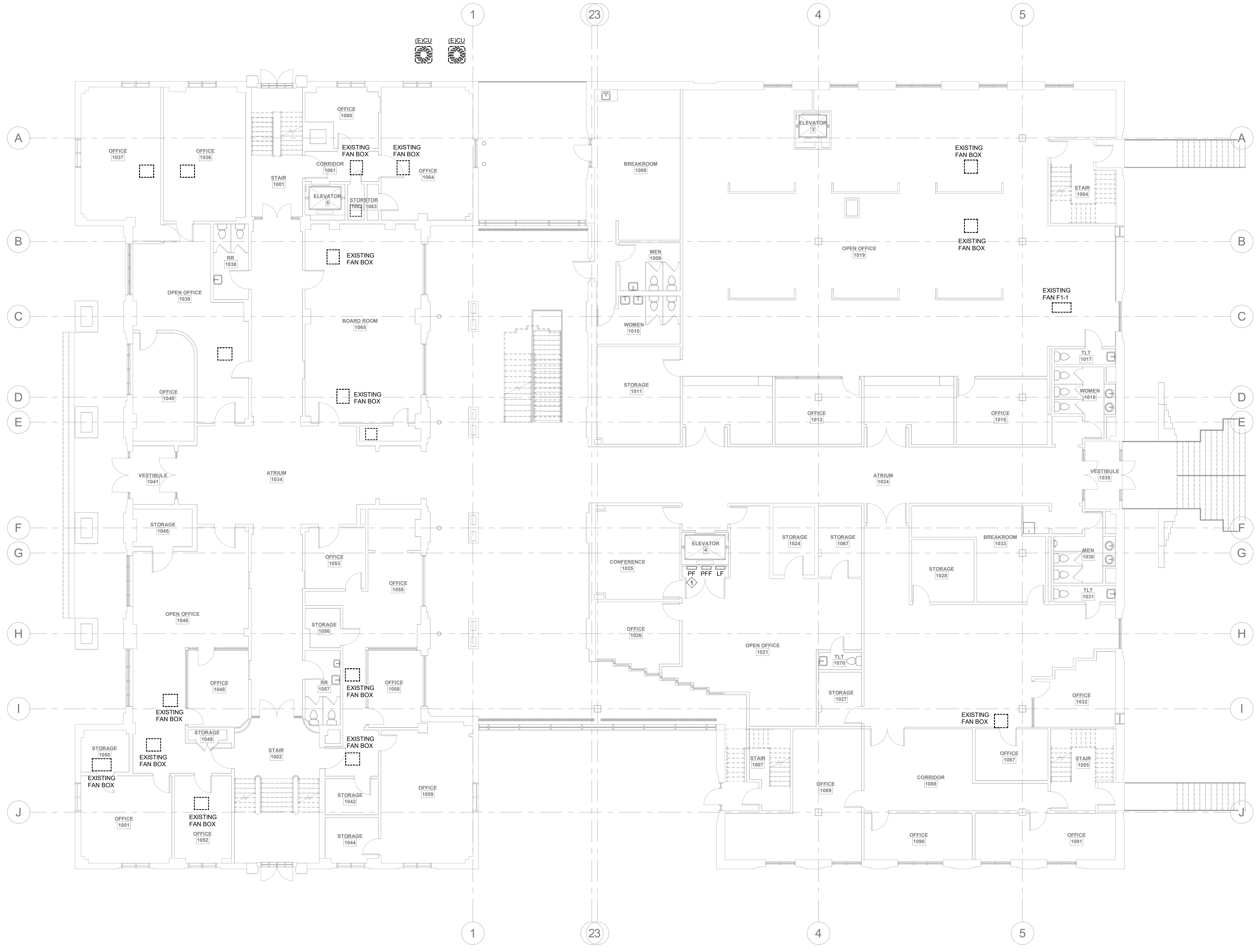
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DEMO PLAN NOTES:

- 1. EXISTING PANEL TO BE FED FROM NEW SOURCE. REFER TO RISER DIAGRAMS.



1 ELECTRICAL 1ST FLOOR DEMO PLAN
 DE1.1
 1/8" = 1'-0"
 0 8 16 24

PROJECT NUMBER: 22175-03
 CONSULTANT:
 PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
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DRAWING NAME
ELECTRICAL 1ST FLOOR DEMOLITION PLAN

DRAWING NO.
DE1.1
 Drawn By: RHW Checked By: KCW



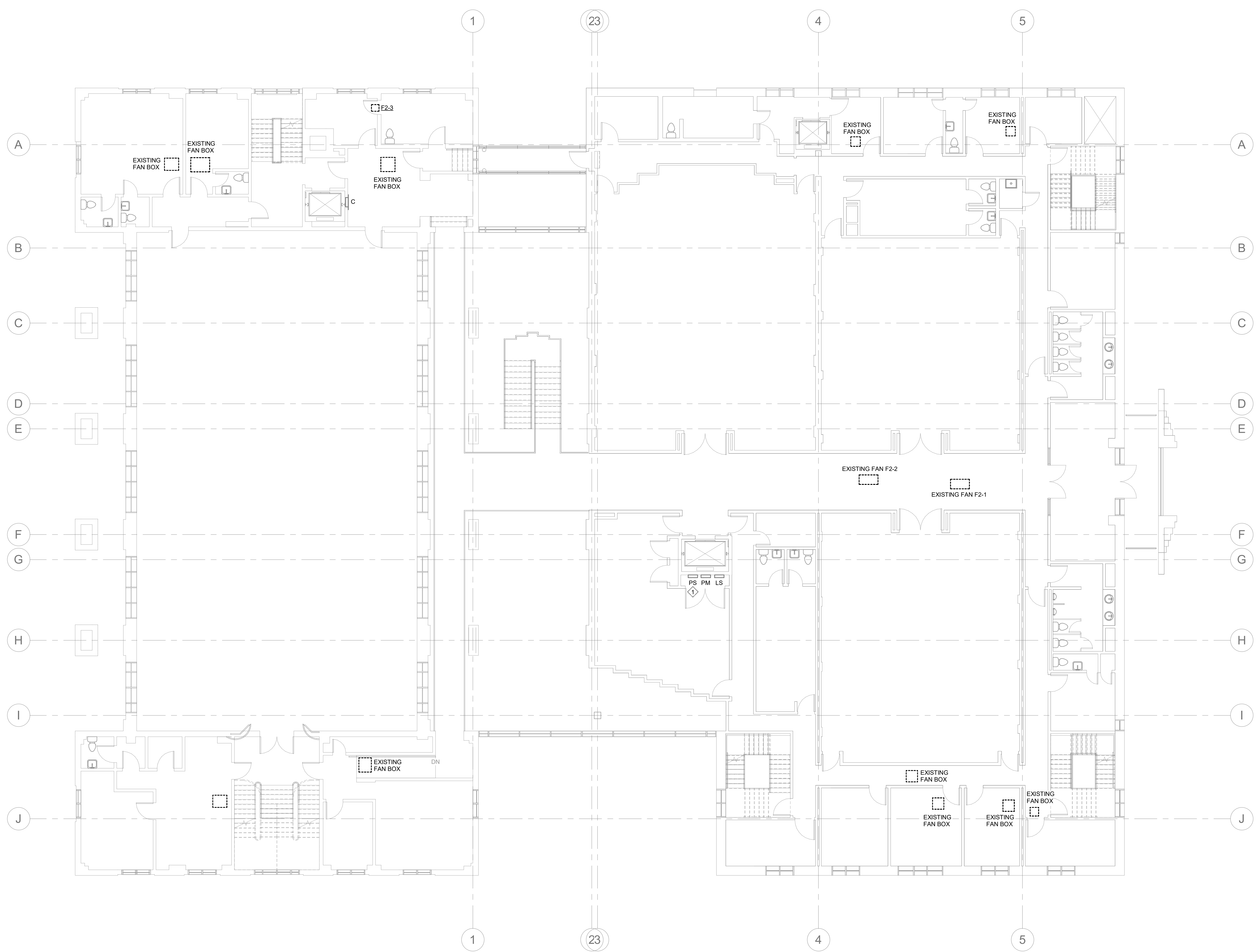
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DEMO PLAN NOTES:

- 1. EXISTING PANEL TO BE FED FROM NEW SOURCE. REFER TO RISER DIAGRAMS.



1 ELECTRICAL 2ND FLOOR DEMO PLAN
 DE1.2 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:
 PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

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DRAWING NAME
ELECTRICAL 2ND FLOOR DEMOLITION PLAN

DRAWING NO.
DE1.2
 Drawn By: RHW Checked By: KCW



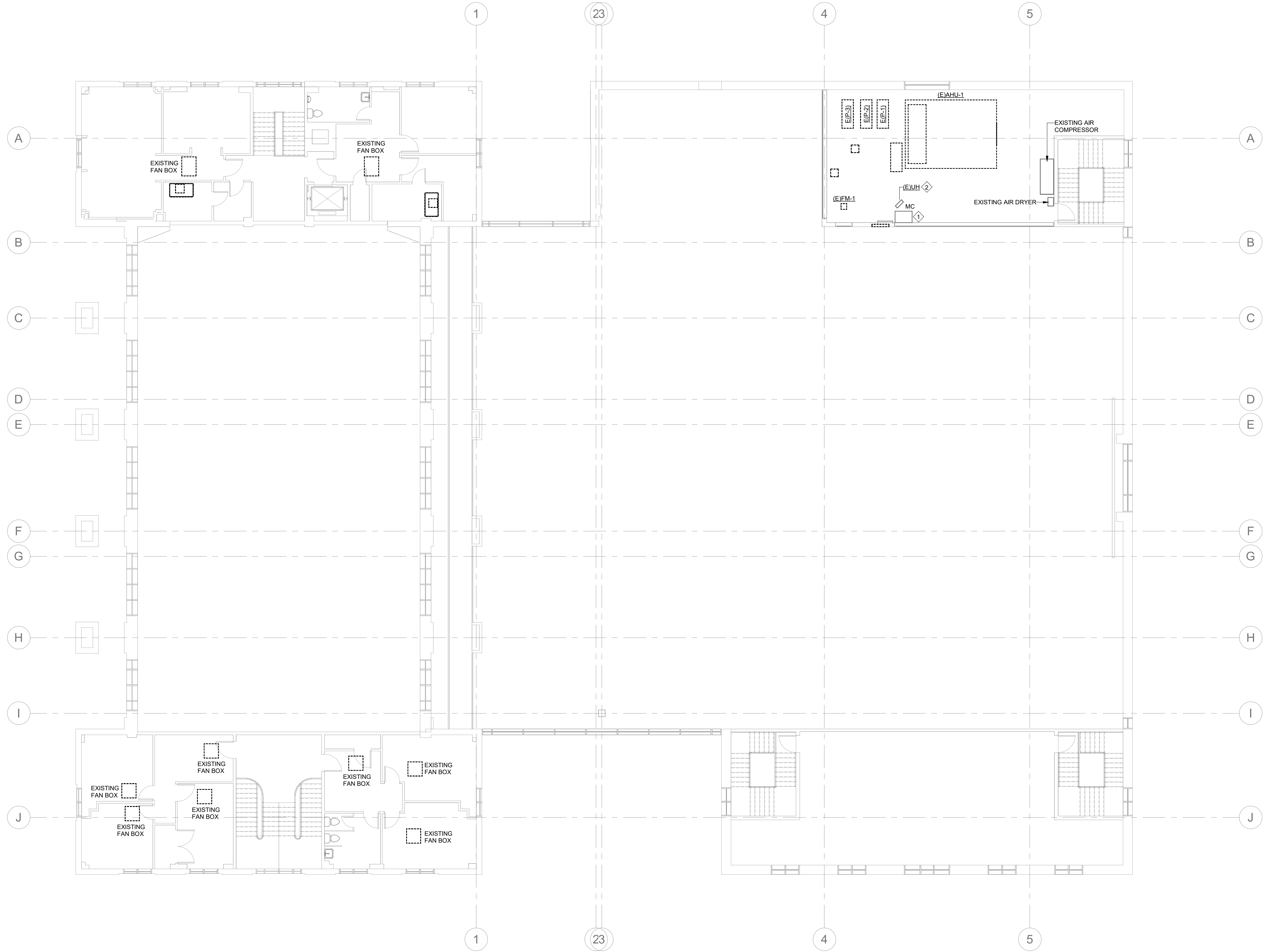
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DEMO PLAN NOTES:

- 1. EXISTING PANEL 'MC' TO REMAIN UNTIL ALL EXISTING LOADS HAVE BEEN REMOVED. ONCE ALL EXISTING LOADS HAVE BEEN REMOVED, PANEL 'MC' SHALL BE DEMOLISHED.
- 2. UNIT HEATER, E(UH) TO REMAIN. SEE PANEL SCHEDULES FOR RELOCATION OF CIRCUIT FOR EXISTING UNIT HEATER.



1 ELECTRICAL 3RD FLOOR DEMO PLAN
 DE1.3
 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:
 PROJECT INFORMATION:

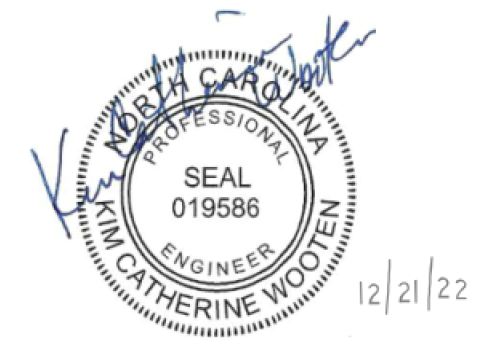
**LENOIR COUNTY
 COURTHOUSE HVAC &
 BASEMENT
 RENOVATION
 PROJECT**
 130 S QUEEN ST,
 KINSTON, NC 28501

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DRAWING NAME
**ELECTRICAL 3RD
 FLOOR AND
 MEZZANINE
 DEMOLITION PLAN**

DRAWING NO.
DE1.3
 Drawn By: RHV Checked By: KCW



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PROJECT NUMBER: 22175-03
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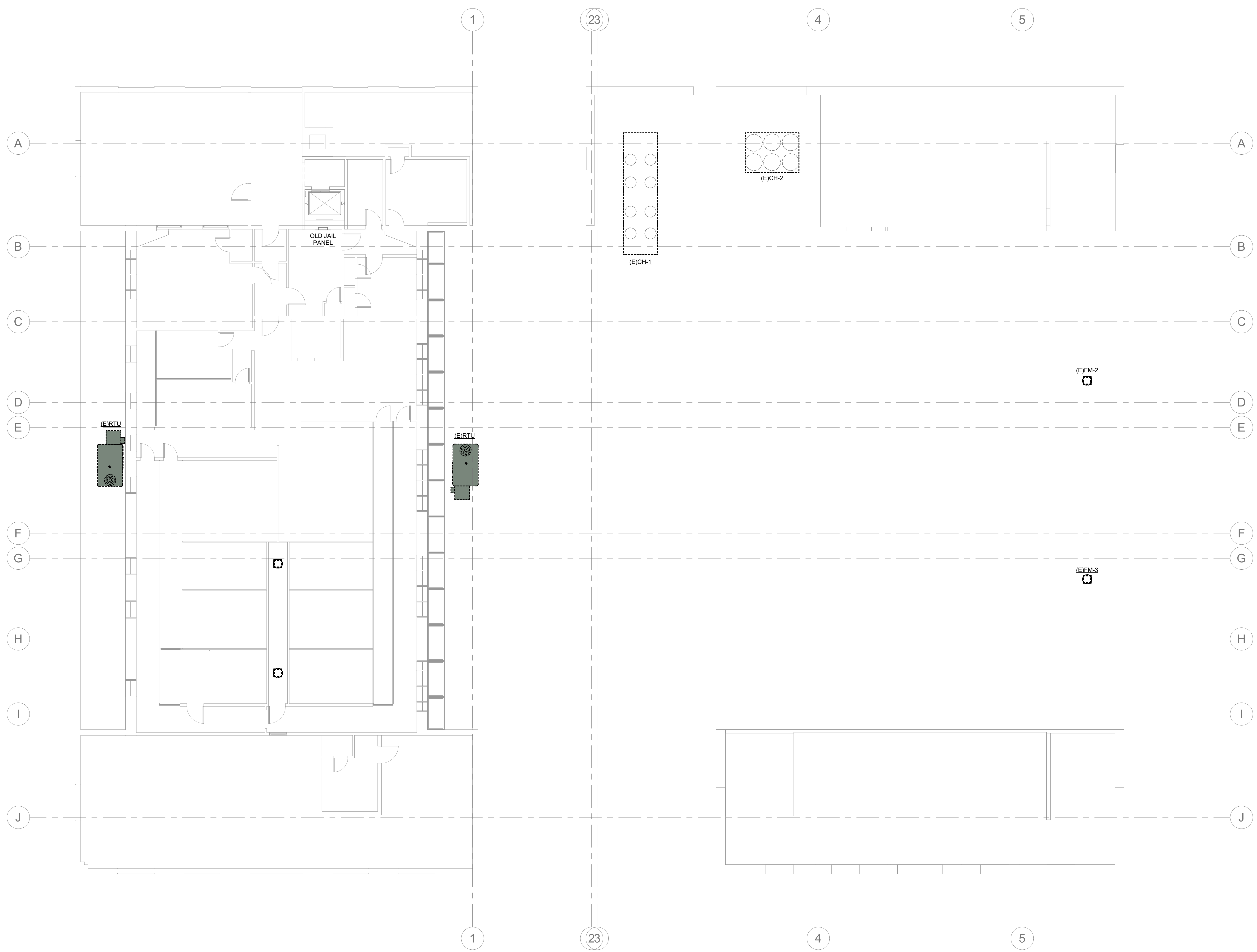
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DRAWING NAME
ELECTRICAL 4TH FLOOR AND ROOF DEMOLITION PLAN

DRAWING NO.
DE1.4

Drawn By: RHV Checked By: KCW



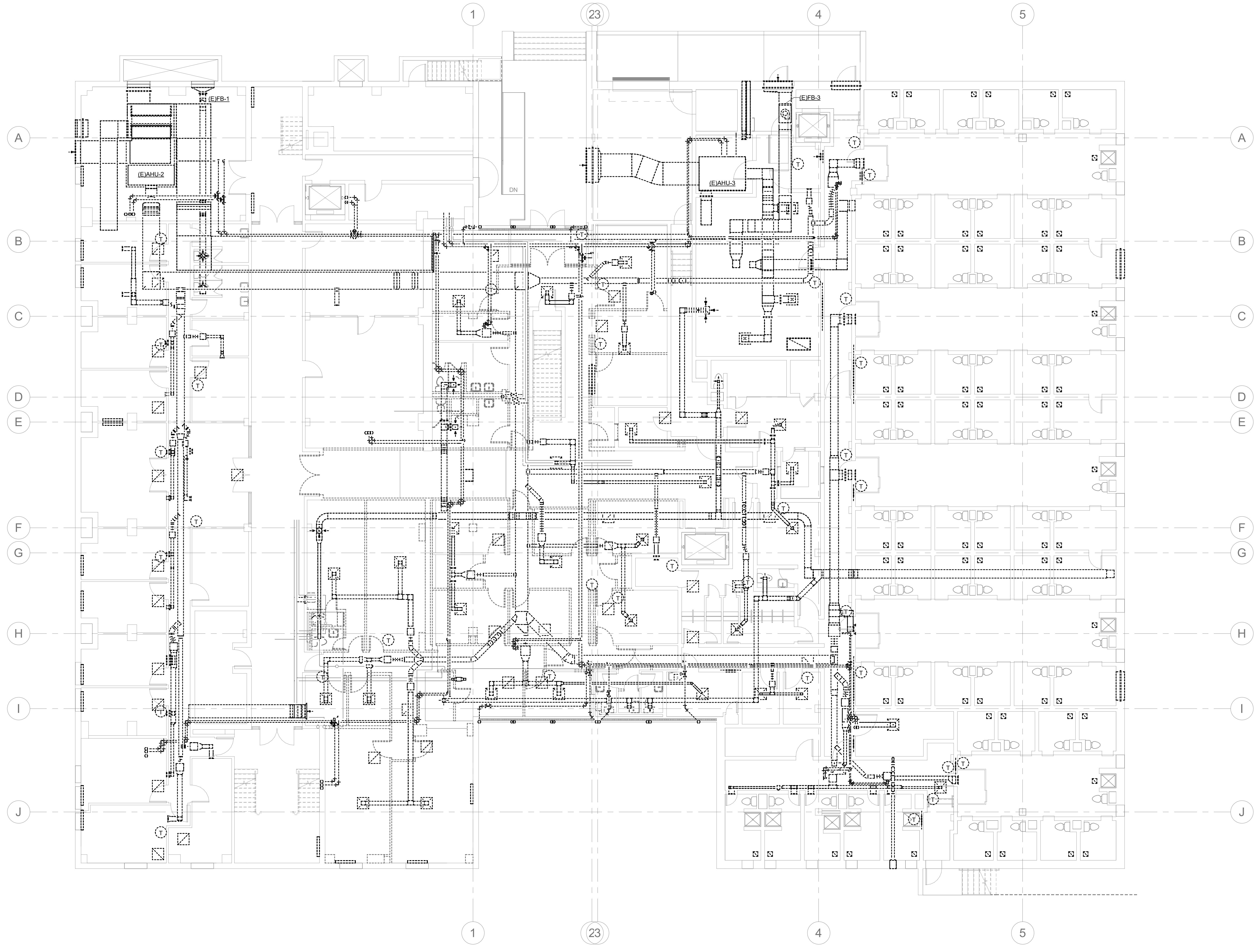
1 ELECTRICAL 4TH FLOOR DEMO PLAN
 DE1.4
 1/8" = 1'-0"
 0 8' 16' 24'



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 NC Firm License # C-0819

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2. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT ANY DAMAGE TO THE FACILITY THAT COULD BE REASONABLY CONTRIBUTED TO THEIR WORK EFFORT AND PROVIDE REPORT TO THE ENGINEER AND OWNER FOR CONFIRMATION. ANY DAMAGE THAT IS IDENTIFIED AFTER THE COMMENCEMENT OF WORK WILL BE CONTRIBUTED TO THE CONTRACTOR'S EFFORTS, AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
3. REMOVE ALL EXISTING MECHANICAL EQUIPMENT. REMOVE ALL ASSOCIATED DUCTWORK, DIFFUSERS, PIPING, ACCESSORIES, AND HANGERS.
4. REPAIR ALL AFFECTED AREAS TO LIKE-NEW CONDITION. CONTRACTOR TO VERIFY CONDITION OF ANY DAMAGED AREAS AND REPAIR OR REPLACE ITEMS AS NECESSARY.
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1 BASEMENT DEMO PLAN
 DM1.0 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

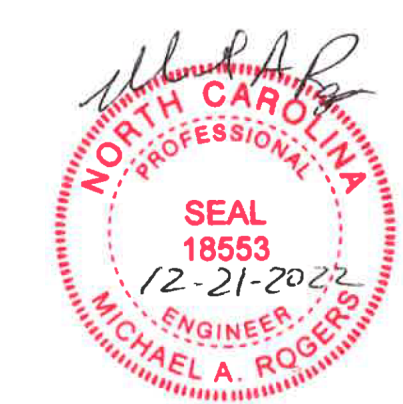
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DRAWING NAME
BASEMENT DEMO PLAN

DRAWING NO.
DM1.0

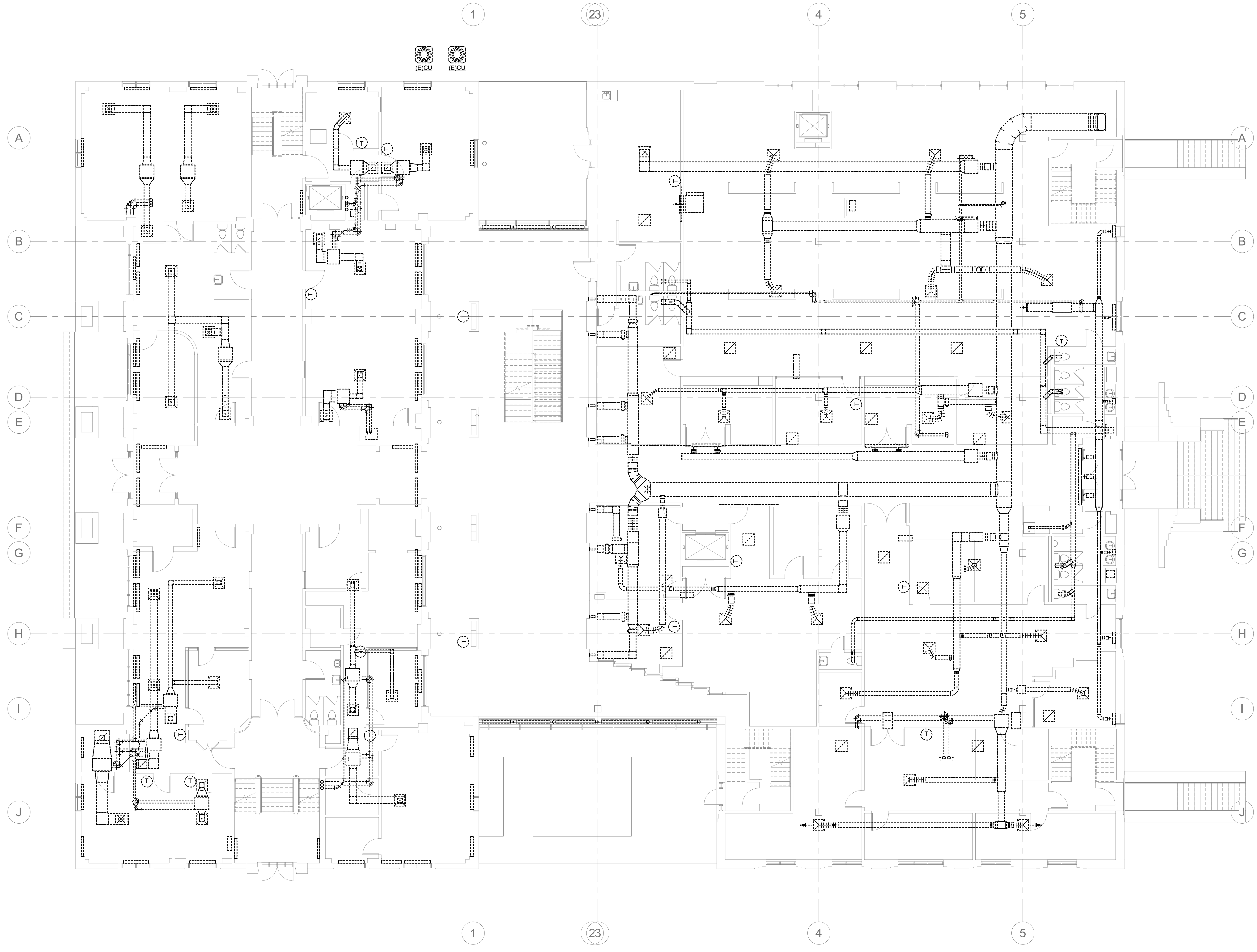
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1 1ST FLOOR DEMO PLAN
 DM1.1 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

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DRAWING NAME
1ST FLOOR DEMO PLAN

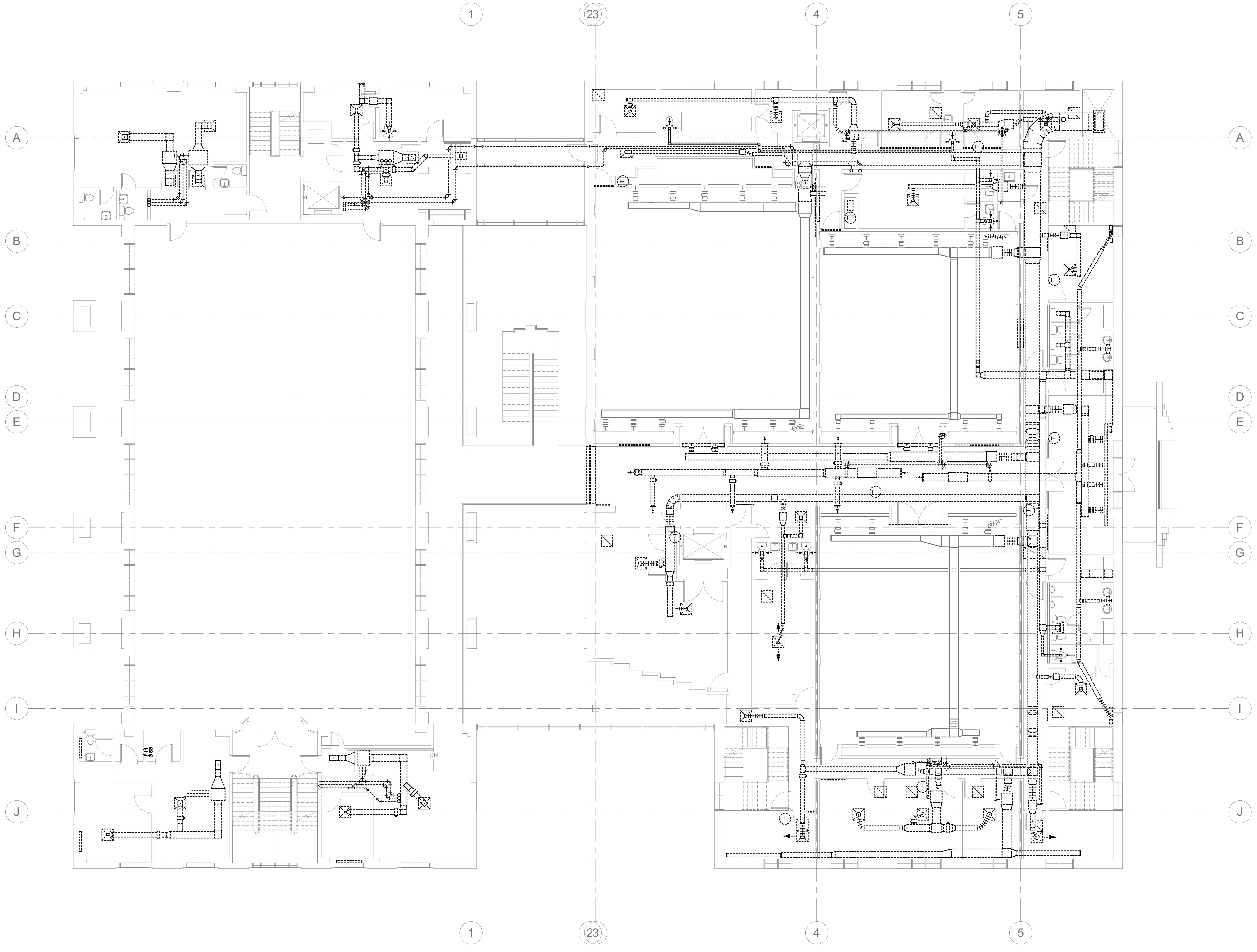
DRAWING NO.
DM1.1
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1 2ND FLOOR DEMO PLAN
 DM1.2 1/8" = 1'-0"
 0 8' 16' 24'

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

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DRAWING NAME
2ND FLOOR DEMO PLAN

DRAWING NO.
DM1.2
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1 3RD FLOOR DEMO PLAN
 DM1.3
 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

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DRAWING NAME
3RD FLOOR AND MEZZANINE DEMO PLAN

DRAWING NO.
DM1.3

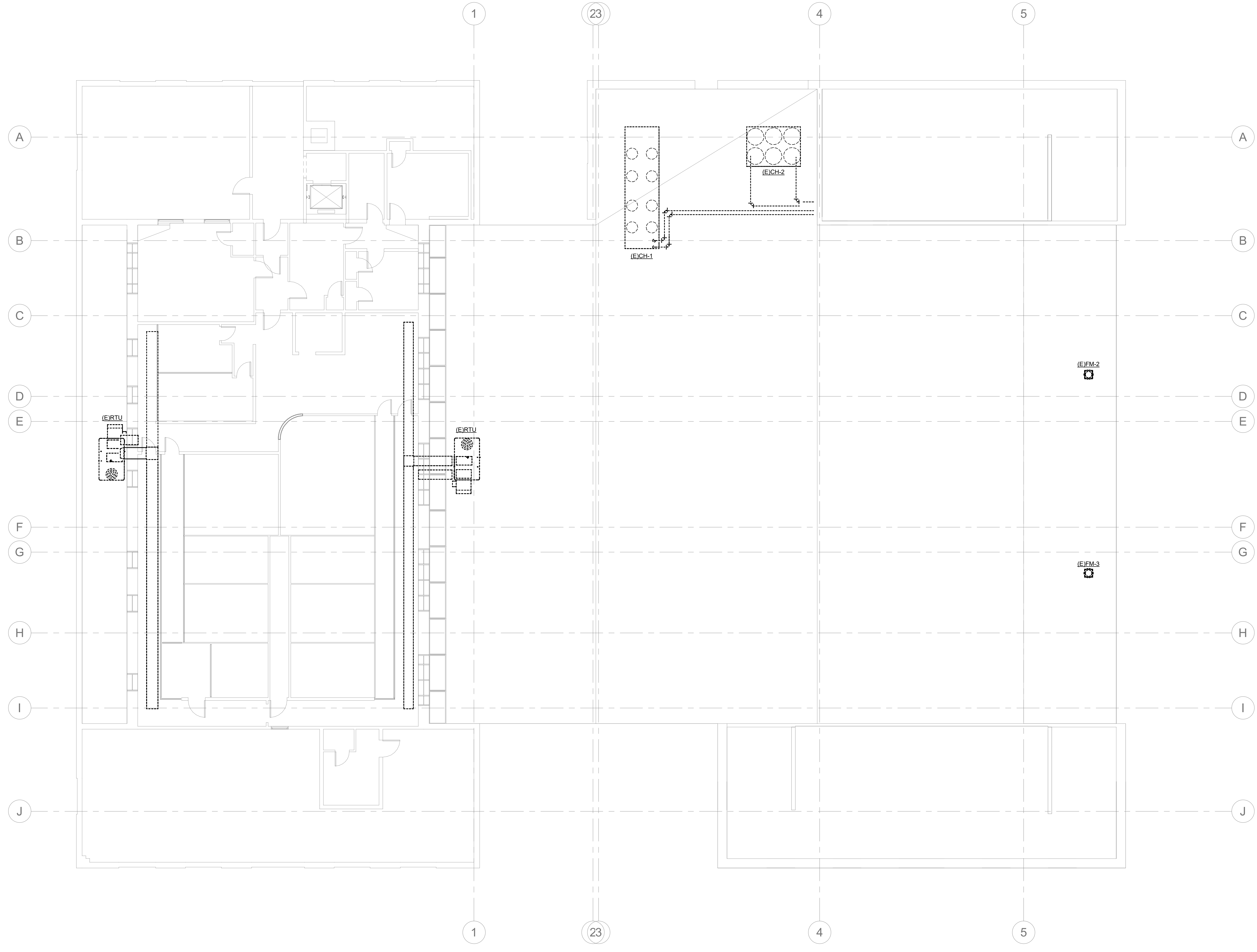
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1 4TH FLOOR DEMO PLAN
 DM1.4 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
 COURTHOUSE HVAC &
 BASEMENT
 RENOVATION
 PROJECT**
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

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DRAWING NAME
**4TH FLOOR AND ROOF
 DEMO PLAN**

DRAWING NO.
DM1.4

Drawn By: EBZ Checked By: MAR



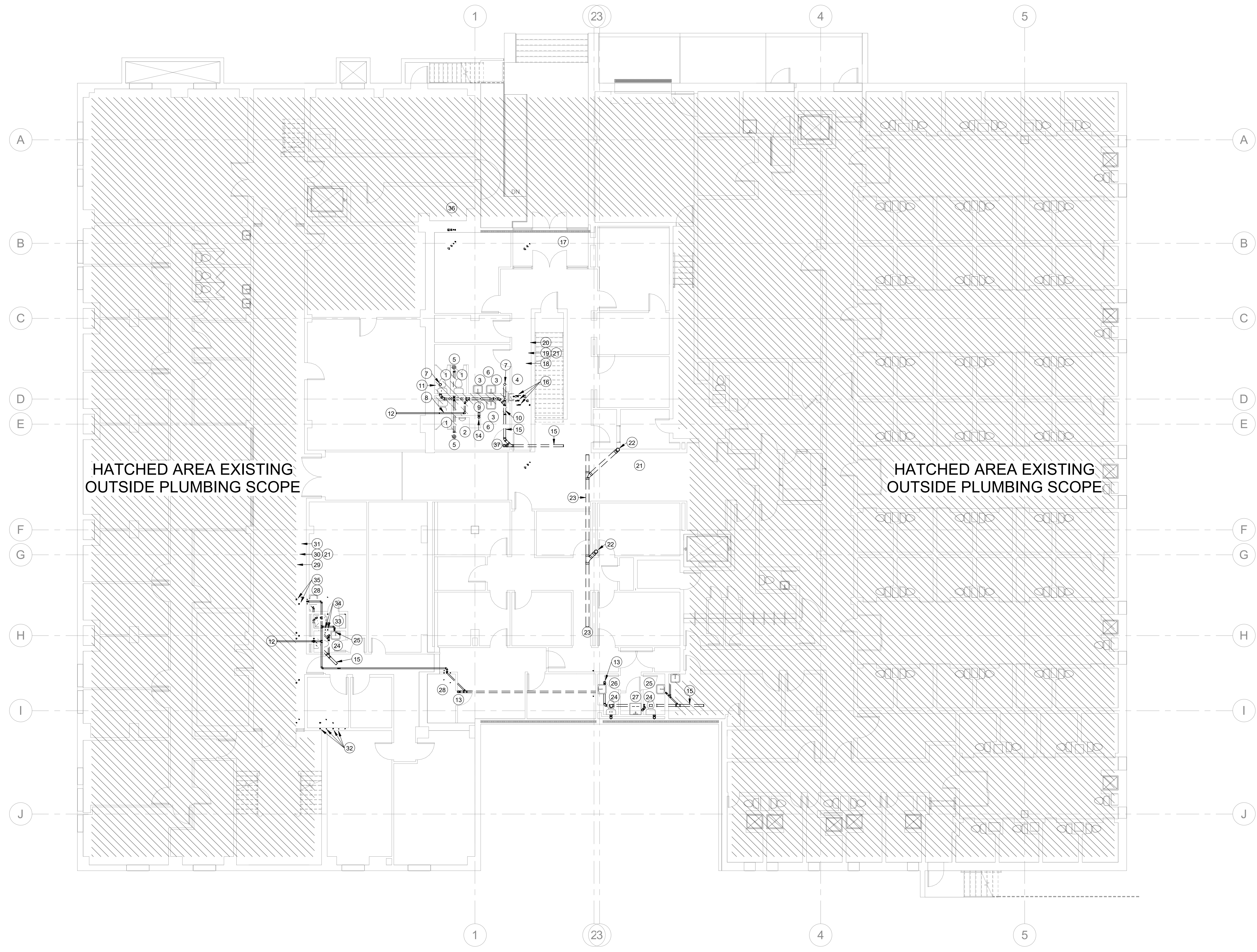
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DEMOLITION NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND SIZE.
- B. NO WASTE PIPE SHALL EXCEED 24" TO A DEAD END. ALL DEAD ENDS THAT EXCEED 24" SHALL BE PROVIDED WITH A CLEANOUT.
- C. COORDINATE FLOOR CUTTING AND REMOVAL WITH G.C.
- D. PATCH ALL FLOORS WHERE REMOVED TO BE LEVEL AND MATCH SURROUNDING SURFACES TEXTURE AND FINISH.

DEMOLITION KEYED NOTES: (#)
 (NOT ALL KEYED NOTES MAY APPLY TO THIS SHEET)

1. REMOVE EXISTING WATER CLOSET AND FLUSH VALVE. REMOVE EXISTING WASTE, VENT AND COLD WATER PIPING.
2. REMOVE EXISTING URINAL AND FLUSH VALVE. REMOVE EXISTING WASTE, VENT AND COLD WATER PIPING.
3. REMOVE EXISTING WALL HUNG LAVATORY AND FAUCET. REMOVE EXISTING WASTE, VENT, COLD AND HOT WATER PIPING.
4. REMOVE EXISTING DRINKING FOUNTAIN. REMOVE EXISTING WASTE, VENT AND COLD WATER PIPING.
5. REMOVE EXISTING FLOOR DRAIN. REMOVE EXISTING WASTE AND VENT PIPING.
6. REMOVE EXISTING HOSE BIBB. REMOVE EXISTING COLD WATER PIPING.
7. REMOVE EXISTING FLOOR CLEANOUT.
8. REMOVE EXISTING 2" CONDENSATE PIPE AS INDICATED.
9. REMOVE EXISTING VENT PIPING BACK TO POINT INDICATED.
10. REMOVE EXISTING UNDERSLAB WASTE PIPE AS INDICATED.
11. SAW CUT EXISTING FLOOR AS REQUIRED. COORDINATE IN FIELD EXACT EXTENT OF SAW CUTTING AND FLOOR REMOVAL TO REMOVE EXISTING PIPE AND PERFORM NEW WASTE PIPE INSTALLATION, INDICATED BY HATCH.
12. EXISTING 2" CONDENSATE FROM ABOVE CEILING HUB DRAIN TO REMAIN UNDISTURBED.
13. EXISTING FLOOR CLEANOUT TO REMAIN.
14. EXISTING 3" VENT UP TO REMAIN.
15. EXISTING 4" WASTE TO REMAIN.
16. DISCONNECT 1-1/4"CW, 1"HV AND 1/2"HVR AT SHUTOFF VALVES. REMOVE ALL DOWNSTREAM PIPING AND SHUTOFF VALVES. PREPARE FOR CONNECTION OF NEW PIPING. CAP EXISTING 1 1/4" CW OUTLET.
17. 140 DEG HOT WATER TO EXISTING KITCHEN TO REMAIN.
18. EXISTING 3"CW MAIN TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
19. EXISTING 2-1/2"HV MAIN TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
20. EXISTING 1"HVR TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
21. FIELD VERIFY EXACT LOCATION AND ROUTING OF WATER PIPING.
22. EXISTING 6" VERTICAL RAINLEADER TO REMAIN.
23. EXISTING RAINLEADER UNDERGROUND TO REMAIN.
24. REMOVE EXISTING WATER CLOSET AND FLUSH VALVE. PREPARE AND ADJUST EXISTING ROUGH-INS AS REQUIRED FOR NEW FIXTURE AS SCHEDULED.
25. REMOVE EXISTING WALL HUNG LAVATORY AND FAUCET. PREPARE AND ADJUST EXISTING ROUGH-INS AS REQUIRED FOR NEW FIXTURE AS SCHEDULED.
26. REMOVE EXISTING COUNTER MOUNTED LAVATORY AND FAUCET. PREPARE AND ADJUST EXISTING ROUGH-INS AS REQUIRED FOR NEW WALL HUNG FIXTURE AS SCHEDULED.
27. EXISTING MOP SINK AND FAUCET TO REMAIN UNDISTURBED.
28. REMOVE EXISTING SINK AND FAUCET. CAP COLD AND HOT WATER BEHIND WALL. PREPARE WASTE WALL OUTLET FOR NEW WALL CLEANOUT.
29. EXISTING 1-1/4"CW MAIN TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
30. EXISTING 3/4"HV MAIN TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
31. EXISTING 1/2"HVR TO REMAIN. VERIFY ACTUAL LOCATION IN FIELD.
32. EXISTING CW, HW, AND HVR UP TO REMAIN UNDISTURBED.
33. REMOVE EXISTING SHOWER AND FAUCET. REMOVE EXISTING WASTE AND VENT. CAP BELOW FLOOR OR BEHIND WALL AS REQUIRED.
34. CAP SHOWER COLD AND HOT WATER BEHIND WALL KEEPING LAVATORY ACTIVE IN TOILET ROOM.
35. CAP COLD AND HOT WATER AT MAIN.
36. FROM EXISTING WATER HEATERS TO REMAIN UNDISTURBED.
37. EXISTING FLOOR CLEANOUT LOCATION TO REMAIN. SEE NEW WORK PLAN FOR REQUIRED ADJUSTMENTS.



HATCHED AREA EXISTING OUTSIDE PLUMBING SCOPE

HATCHED AREA EXISTING OUTSIDE PLUMBING SCOPE

1 BASEMENT DEMOLITION PLUMBING PLAN
 DP1.0 1/8" = 1'-0"
 0 8' 16' 24'

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST, KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
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DRAWING NAME
PLUMBING BASEMENT DEMOLITION PLAN

DRAWING NO.
DP1.0
 Drawn By: DRB Checked By: MAR



12/21/22



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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03

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DRAWING NAME
ELECTRICAL LEGENDS AND NOTES

DRAWING NO.
E0.1

Drawn By: RHV Checked By: KCW

ELECTRICAL GENERAL NOTES

- IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND/OR GOVERNING AUTHORITIES.
- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE WITH NORTH CAROLINA AMENDMENTS, THE LATEST EDITIONS OF ALL LOCAL CODES, RULES, AND ORDINANCES HAVING JURISDICTION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIRS OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES, INC. (UL) OR WITH THIRD PARTY AGENCIES WHICH SHALL BE AMONGST THOSE ACCREDITED BY THE NCBCC (NORTH CAROLINA BUILDING CODE COUNCIL) TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
 - ILLUMINATING ENGINEERS SOCIETY (IES).
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
 NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY UL OR OTHER THIRD PARTY AGENCY ACCEPTABLE BY NORTH CAROLINA.
- IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF EQUIPMENT LAYOUT FOR ALL ELECTRICAL SPACES, ROOMS, ETC. TO ENGINEER FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. LAYOUT SHALL CONSIST OF PLAN VIEWS (SCALED AT 1/2" = 1'-0") AND ELEVATIONS (DIMENSIONED) FOR EACH SUCH SPACE, ROOM, ETC.
- ELECTRICAL CONTRACTOR SHALL SUBMIT AT ONE TIME, ONE ELECTRONIC PDF COPY OF ALL PRODUCTS, MATERIALS, LIGHTING FIXTURES, LAMPS, WIRING DEVICES, SWITCHGEAR, ETC. ORGANIZED BY SPEC SECTION. ALL EQUIPMENT SHALL BE AS SPECIFIED ON PLANS. THE RESPONSIBILITY TO ACCEPT OR REJECT ANY PROPOSED SUBSTITUTION REMAINS WITH THE PROJECT ENGINEER. THE CONTRACTOR MAY AT HIS JUDGMENT USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IN THE JUDGMENT OF THE ENGINEER EXPRESSED IN WRITING ARE EQUAL TO THAT SPECIFIED.
- UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC., SHALL BE NEW AND AS SPECIFIED.
- COORDINATE ALL ELECTRICAL SITE WORK WITH OWNER AND ENGINEER PRIOR TO INSTALLATION.
- PROVIDE PROPOSED SCHEDULE OF WORK.
- ALL WIRING SHALL BE COPPER IN EMT OR IMC OR RIGID GRS. FITTINGS SHALL BE COMPRESSION TYPE. LMFC SHALL NOT BE USED WHERE SUBJECT TO PHYSICAL DAMAGE. REFER TO SPECIFICATIONS FOR SPECIFIC APPLICATION REQUIREMENTS.
- APPLY BITUMASTIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
- NOTIFY OWNER 7 DAYS IN ADVANCE OF PROPOSED OUTAGES.
- WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEMA 3R AND RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
- OUTLET BOXES SHALL BE STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS. PROPER PLASTER RINGS SHALL BE USED WITH OUTLET BOXES. PROPER COORDINATION BETWEEN ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR FOR PLASTER RING INITIATION WILL BE REQUIRED. ALL OUTLET BOXES SHALL BE SET PROPERLY AT INSTALLATION AS NO "SCOOP" RINGS WILL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED. ALL DEVICES SHALL BE WHITE (DECORA TYPE) WITH STAINLESS STEEL PLATES (UON).
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, AS INDICATED OR REQUIRED, WITH CLASS 10 ELECTRICAL OVERLOAD RELAYS IN EACH HOT LEG.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SCAFFOLDING, ETC. AS REQUIRED.
- DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES. U.O.N., DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED, HEAVY-DUTY TYPE.
- ALL FUSES SHALL BE CURRENT LIMITING, PER U.L., RATED 600 VOLTS, UNLESS OTHERWISE NOTED.
 - NONTIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS.
 - TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION.
- TWO AND THREE-POLE CIRCUIT BREAKERS SHALL HAVE COMMON TRIP. NO TIE HANDLES SHALL BE PERMITTED.
- WHERE CORE DRILLING OF FLOORWALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATER TIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL BE COORDINATED WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
- PREPARE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS, AND STRUCTURAL SLABS.
- ALL OPENINGS FOR LIGHT FIXTURES IN CEILING SHALL BE PROTECTED IN A MANNER (PER ALL GOVERNING CODES) THAT WILL PROVIDE THE SAME RATING AS THE CEILING. (THIS APPLIES TO ALL FIRE RATED CEILINGS).
- ALL LED LUMINAIRES SHALL HAVE FIELD REPLACEABLE DIMMABLE DRIVERS.
- ALL CONNECTIONS TO GROUND RODS & BUILDING STEEL SHALL BE MADE WITH UL APPROVED WELDED CONNECTIONS, UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- PREPARE AND AFFIX A TYPED DIRECTORY TO THE INSIDE COVER OF EACH NEW AND OR EXISTING (REVISED) PANELBOARD INDICATING LOADS CONTROLLED BY EACH CIRCUIT.
- EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR, NO SHARED NEUTRALS SHALL BE PERMITTED.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE ELECTRICAL INSPECTORS IN THE COUNTY ADMINISTRATION OFFICE, TO SCHEDULE THE REQUIRED INSPECTIONS. NO WORK WILL BE COVERED UP UNTIL AFTER THE INSPECTION HAS BEEN COMPLETED AND APPROVED BY AN AUTHORIZED INSPECTOR.

ELECTRICAL DEMOLITION NOTES

- REFER TO DRAWINGS AND SPECIFICATIONS FOR DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT AND COORDINATION AND ADDITIONAL REQUIRED WORK.
- THIS IS AN OCCUPIED BUILDING AND ALL WORK SHALL BE COORDINATED WITH THE OWNER TO PROVIDE THE LEAST AMOUNT OF DISRUPTION TO THE RESIDENTS. OUTAGES SHALL BE SCHEDULED AT LEAST ONE WEEK IN ADVANCE.
- FOR ITEMS TO BE DEMOLISHED, REMOVE WIRING/CONDUIT BACK TO THE LAST ACTIVE DEVICE OR SOURCE PANELBOARD. MAINTAIN CIRCUIT CONTINUITY TO REMAINING ITEMS ON CIRCUITS REQUIRED TO REMAIN. RELOCATE ANY CIRCUITS TO REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. COORDINATE WITH ARCHITECTURAL DRAWINGS. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.
- ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER. PROVIDE BLANK COVER PLATES FOR UNUSED OUTLETS, IF ANY.
- IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA, THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF NECESSARY.
- EXISTING CONDUIT IN THE RENOVATED AREA SHALL BE REMOVED. EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IN CEILING SPACES AND WALLS. EXISTING CONDUIT BELOW FLOOR SLABS MAY BE ABANDONED IN PLACE. REMOVE ALL WIRING, CUT OFF ABANDONED CONDUIT BELOW FLOOR, AND GROUT FLUSH.
- CONDUCTORS IN RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE.
- PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED IF THE OWNER DOES NOT WANT THE ITEMS. CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH THE OWNER.
- WHERE CIRCUIT BREAKERS ARE CHANGED IN EXISTING SWITCHBOARD OR PANELBOARDS, THEY SHALL MATCH EXISTING TYPE, MANUFACTURER, AND AIC RATING AND SHALL BE CURRENT LIMITING TYPE TO MAINTAIN FAULT CURRENT STUDY RATINGS. INFORM ENGINEERS OF FAULT CURRENTS THAT BE INCREASED BY THE USE OF DIFFERENT CIRCUIT BREAKERS. UPDATE DIRECTORIES IN EXISTING SWITCHBOARD AND PANELBOARDS TO REFLECT CHANGES BY THIS RENOVATION. DIRECTORIES SHALL BE TYPED WRITTEN.

ABBREVIATIONS

| | |
|-----------|--|
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| ACh | ABOVE COUNTER HEIGHT |
| AL | ALUMINUM |
| BKR | BREAKER |
| CU | COPPER |
| CKT | CIRCUIT |
| DWG | DRAWING |
| EC | EMPTY CONDUIT |
| EF | EXHAUST FAN |
| EWC | ELECTRIC WATER COOLER |
| FLA | FULL LOAD AMPS |
| FU | FUSE |
| FWE | FURNISHED WITH EQUIPMENT |
| GC | GENERAL CONTRACTOR |
| GF/GFCI | GROUND FAULT INTERRUPTER DEVICE |
| HPS | HIGH PRESSURE SODIUM |
| IG | ISOLATED GROUND |
| LRA | LOCKED ROTOR AMPS |
| LTO | LIGHTING(L) |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MCS | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MDP | MAIN DISTRIBUTION PANEL |
| MFR | MANUFACTURER |
| MH | METAL HALIDE |
| MLO | MAIN LUG ONLY |
| MOC | MAXIMUM OVERCURRENT CIRCUIT PROTECTION |
| MSB | MAIN SWITCHBOARD |
| NL | NIGHT LIGHT |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| PH | PHASE |
| PNL | PANEL |
| RCPT | RECEPTACLE |
| REQD | REQUIRED |
| RTU | ROOF TOP UNIT |
| SP | SURGE PROTECTED DEVICE |
| SW | SWITCH |
| UGND | UNDERGROUND |
| UH | UNIT HEATER |
| UON, UOON | UNLESS NOTED OTHERWISE |
| W | WITH |
| WH | WATER HEATER |
| WP | WEATHER PROOF |
| XFMR | TRANSFORMER |

LIGHTING & CONTROL SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| | 20A SWITCH AT 44" CL AFF. UNO FOR SWITCH ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: a,b - SWITCHING SCHEME D - DIMMER m - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR |
| | TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF. UNO |
| | LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED |
| | LIGHTING CONTROL PHOTOCELL |
| | DAYLIGHT SENSOR |
| | EMERGENCY LOAD RELAY |
| | INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE. |
| | LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED). |
| | EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE. |
| | EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE |
| | EXIT SIGN |
| | CEILING FAN |

TECHNOLOGY SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--------|--|
| | VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. |
| | VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. |
| | TELEVISION OUTLET, SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. PROVIDE WITH ADJACENT DUPLEX RECEPTACLE. |
| | SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER. |
| | WIRELESS ACCESS POINT. COORDINATE REQUIREMENTS WITH OWNER. |

LIGHTING CIRCUITING GUIDE

| SYMBOL | DESCRIPTION |
|--------|---|
| | B / X-1 LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE 1: CIRCUIT NUMBER |
| | (a) SWITCHING SCHEME OR ZONE |

POWER CIRCUITING GUIDE

| SYMBOL | DESCRIPTION |
|--------|--|
| | X-1 POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE 1: CIRCUIT NUMBER |
| | DEVICE, JUNCTION BOX, FLOOR BOX, ETC |
| | EQUIPMENT ABBREVIATION. REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION |

FIRE ALARM GENERAL NOTES

- FIRE ALARM INSTALLATION SHALL COMPLY WITH NFPA 72, NFPA 101, NATIONAL ELECTRICAL CODE (NFPA 70) WITH SPECIFIC ATTENTION TO ARTICLE 760, STATE FIRE CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND ORDINANCES.
- ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEM AND SHALL BE THE FACILITY STANDARD MODELS. FIRE ALARM WIRING AND PATHWAY SHALL BE PER FACILITY STANDARDS AND COMPLY WITH NFPA 72 AND NEC.
- ALL VISUAL NOTIFICATION DEVICES (STROBES) IN ONE VIEWING, NEW AND EXISTING, SHALL BE SYNCHRONIZED TO FLASH IN UNISON AS REQUIRED BY NFPA 72, ADA, ANSI 117.1, AND UL 1971.
- PROVIDE ALL REQUIRED TESTING OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE "INSPECTION, TESTING, AND MAINTENANCE" CHAPTER OF NFPA 72 AND MANUFACTURER'S WRITTEN INSTRUCTIONS. FIELD TESTS SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION. CONDUCT VISUAL INSPECTION AND SYSTEM TESTING IN THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF NFPA 72. PREPARE A "FIRE ALARM SYSTEM RECORD OF COMPLETION" PER NFPA 72. FIRE ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
- FOR FIRE ALARM DEVICES THAT ARE REMOVED, PERFORM ANY PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL TO NOTE DEVICE HAS BEEN REMOVED. RECESSED, EMPTY BACK BOX AND CONDUIT MAY BE ABANDONED IN WALL, UNLESS NOTED OTHERWISE.
- FOR FIRE ALARM DEVICES ADDED TO EXISTING SYSTEMS, CONNECT TO EXISTING CIRCUITS AND PROVIDE PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL.

WIRING DEVICE SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| | HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED NEUTRALS ARE USED. MAXIMUM OF (6) AWG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. PROVIDE #8 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 150 FEET. INCREASE CONDUIT SIZE AS REQUIRED. VERIFY EXACT CIRCUIT LENGTH AND SIZE OF CONDUCTORS TO PROVIDE ACCEPTABLE VOLTAGE DROP PER NEC. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL. |
| | CONDUIT STUB |
| | CONDUIT TURNED DOWN |
| | CONDUIT TURNED UP |
| | CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR |
| | ELECTRICAL CONNECTION TO EQUIPMENT ITEM "E101" (LETTER DESIGNATION AS APPLICABLE). SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE |
| | DUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R. |
| | QUADRUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R. |
| | DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER, UNO. NEMA 5-20R. |
| | QUADRUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER, UNO. NEMA 5-20R. |
| | DUPLEX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R. |
| | DUPLEX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R. |
| | SINGLE RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R. |
| | FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GFI - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL |
| | SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS |
| | SURFACE RACEWAY |
| | JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS |
| | JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS |
| | VERTICAL SERVICE POLE |
| | COMBINATION IN FLOOR POWER / DATA / AV DEVICE. |
| | PUSHBUTTON |
| | MOTOR. SEE DRAWINGS FOR DESCRIPTION |
| | SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "3P" INDICATES NUMBER OF POLES. "20" INDICATES FUSE SIZE. "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC.). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NP" INDICATES NON-FUSED. |
| | COMBINATION MOTOR STARTER |
| | MOTOR STARTER |
| | DOOR BELL |

FIRE ALARM SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--------|--|
| | FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO |
| | FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UNO |
| | FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO |
| | FIRE ALARM PULL STATION AT 44" AFF. UNO |
| | FIRE ALARM VISUAL DEVICE, ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED. |
| | FIRE ALARM AUDIO/VISUAL DEVICE, ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED. |
| | FIRE ALARM HORN AUDIO DEVICE, ROUGH-IN SUCH THAT BOTTOM OF DEVICE IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED. |
| | FIRE ALARM SYSTEM BELL |
| | FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UNO |
| | FIRE ALARM SMOKE DUCT DETECTOR |
| | REMOTE TEST STATION FOR FA DUCT DETECTOR |
| | TAMPER SWITCH |
| | FLOW SWITCH |
| | HEAT DETECTOR |
| | CO DETECTOR |
| | MAGNETIC DOOR HOLDER, AT 72" AFF UNO |
| | MOTORIZED SMOKE DAMPER |
| | FA SMOKE DAMPER |
| | ADDRESSABLE INPUT MONITOR MODULE |
| | ADDRESSABLE OUTPUT CONTROL MODULE |
| | FIRE ALARM RELAY |

DISTRIBUTION SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| | ELECTRICAL PANEL, SURFACE MOUNTED. |
| | ELECTRICAL PANEL, FLUSH MOUNTED. |
| | TRANSFORMER |
| | AUTOMATIC TRANSFER SWITCH |



- RISER NOTES:**
- A. ALL EQUIPMENT IS EXISTING TO REMAIN U.N.O.
 - B. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR REQUIRED PHASING OF WORK.

- PLAN NOTES:**
- 1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. REFER TO PLANS AND PANEL SCHEDULES.
 - 2. SEE SHEET DE1.3 FOR MORE INFORMATION REGARDING THE REMOVAL OF EXISTING PANEL 'MC'.
 - 3. EXISTING PANEL TO BE REPLACED RETAIN ALL EXISTING CIRCUITS FOR RECONNECTION.
 - 4. RETAIN FEEDER FOR EXTENSION TO NEW LOAD OR SOURCE.
 - 5. EXISTING PANEL TO BE RE-FED FROM NEW SOURCE.
 - 6. EXISTING PANELS ARE NOT BRACED FOR AVAILABLE FAULT CURRENT. REMEDY INCLUDES WORK SHOWN FOR TRANSFORMER 'DT'. SEE SHEET E0.3.
 - 7. EXISTING TRANSFORMER TO BE REPLACED AND RELOCATED.

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

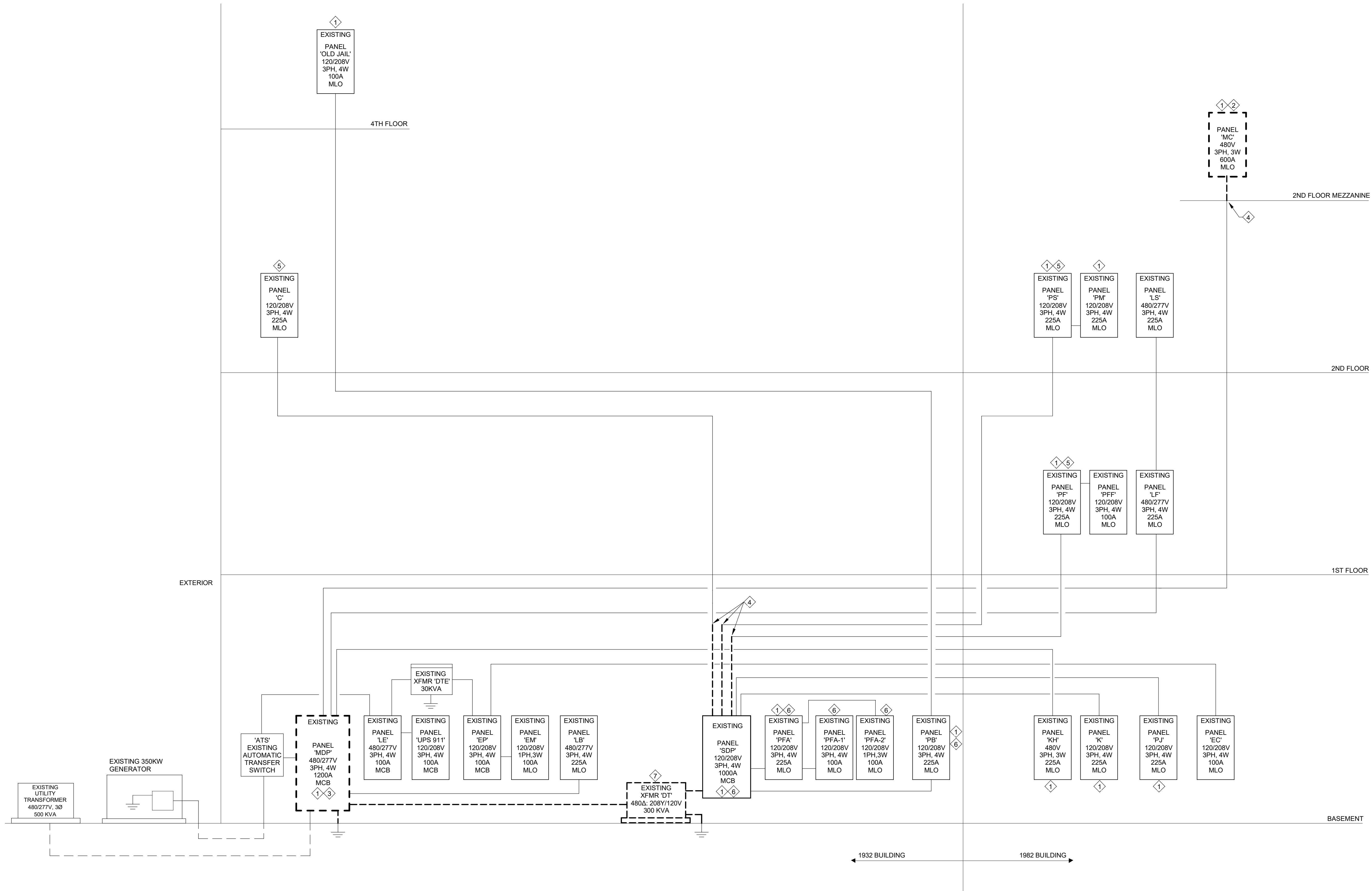
| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
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DRAWING NAME
EXISTING POWER RISER DIAGRAM

DRAWING NO.
E0.2

Drawn By: RHV Checked By: KCW



1 EXISTING POWER RISER DIAGRAM
 E0.2 NOT TO SCALE



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 DeVita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

| SERVICE LOAD SUMMARY | |
|---|----------------|
| EXISTING SERVICE: 480Y/277V, 3-PH, 4-WIRE, 1200A | |
| EXISTING PEAK DEMAND LOAD OVER PREVIOUS 12-MONTHS | 259 KW |
| ASSUME 0.9 POWER FACTOR | 288 KVA |
| EXISTING DEMAND LOAD AT 125% PER NEC | 360 KVA |
| NET LOAD ADDED | 312 KVA |
| RESULTANT SERVICE DEMAND LOAD | 672 KVA (808A) |
| EXISTING SERVICE SIZE IS ADEQUATE; HOWEVER EXISTING UTILITY TRANSFORMER MAY REQUIRE UPGRADE | |

- RISER NOTES:**
- ALL EQUIPMENT IS EXISTING U.N.O.
 - REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR REQUIRED PHASING OF WORK.

- PLAN NOTES:**
- CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. REFER TO PLANS AND PANEL SCHEDULES.
 - PROVIDE UPDATED PANEL DIRECTORY IN THIS PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. TRACE OUT AND VERIFY ALL EXISTING CIRCUITS. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS.
 - ALL ACTIVE CIRCUITS IN THE EXISTING PANEL SHALL BE RELOCATED TO NEW REPLACEMENT PANEL. SEE PANEL SCHEDULES FOR MORE INFORMATION.
 - SEE SHEET E1.0 REGARDING NEW LOCATION FOR NEW TRANSFORMER 'DT'.
 - RECONNECT CIRCUITS RELOCATED FROM EXISTING PANEL 'SDP'. MATCH EXISTING FEEDER SIZE. SEE PANEL SCHEDULES FOR MORE INFORMATION.
 - PROVIDE NEW 600A/3P/500AF/NEMA-1 FUSED DISCONNECT SWITCH. SEE SHEET E1.0 FOR MORE INFORMATION REGARDING INSTALLATION.
 - INTERCEPT EXISTING FEEDER AND EXTEND TO NEW LOAD OR SOURCE AS INDICATED.
 - EXISTING PANEL 'MC' TO BE DEMOLISHED AFTER ALL EXISTING LOADS HAVE BEEN REMOVED.
 - AFTER RELOCATION OF CIRCUITS TO PANEL 'SDP-2', REMOVE EXISTING 1000A MAIN CIRCUIT BREAKER FROM EXISTING PANEL 'SDP'. PROVIDE AND INSTALL NEW 500A MAIN CIRCUIT BREAKER.
 - COORDINATE WITH LOCAL UTILITY COMPANY FOR POTENTIAL UTILITY TRANSFORMER UPGRADE.
 - PROVIDE NEW LABELING FOR EXISTING PANEL REFLECTING NEW SOURCE OF SUPPLY.
 - PROVIDE LABEL ON TRANSFORMER NOTING LOCATION OF PRIMARY DISCONNECTING MEANS (PRIMARY BREAKERS).

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

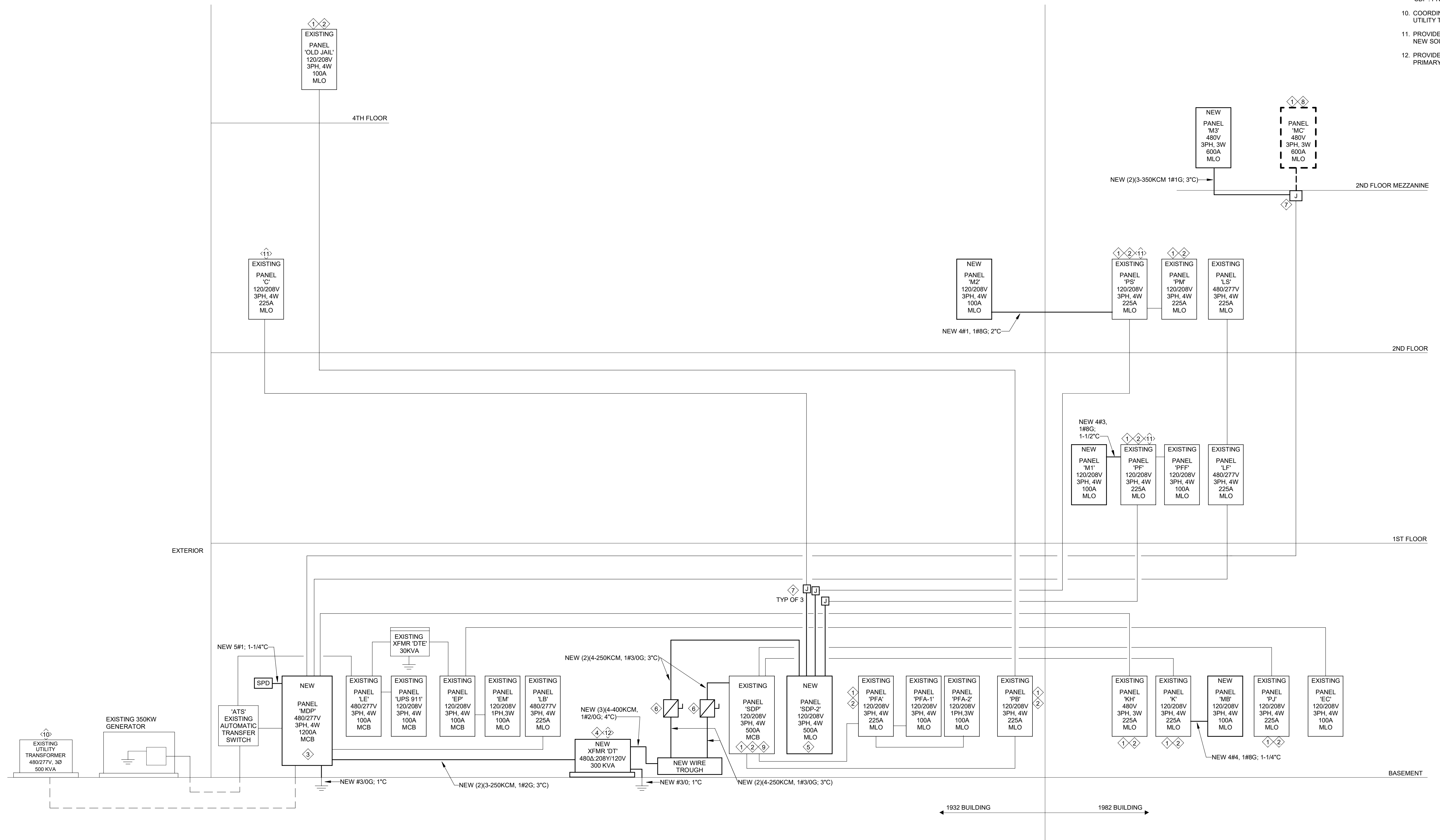
LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST, KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
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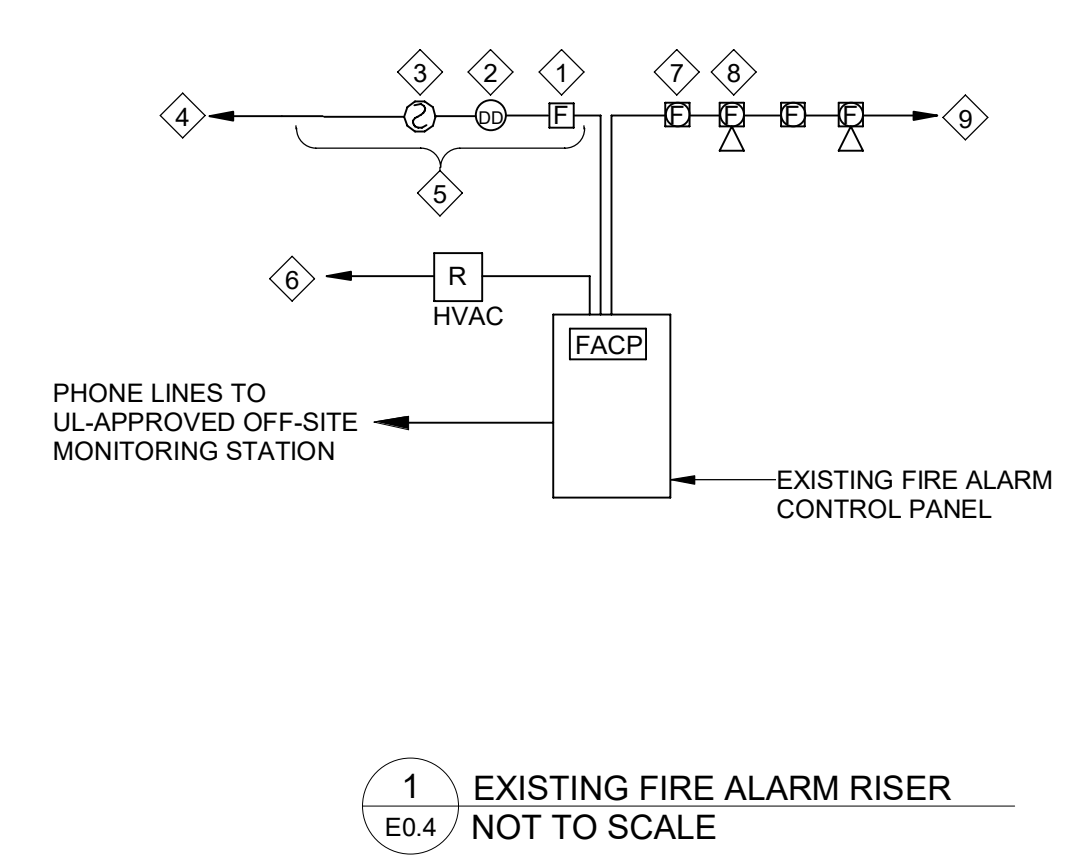
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DRAWING NAME
PROPOSED POWER RISER DIAGRAM

DRAWING NO.
E0.3
 Drawn By: RHV Checked By: KCW



1 PROPOSED POWER RISER DIAGRAM
 E0.3 NOT TO SCALE



- FIRE ALARM RISER DIAGRAM NOTES:**
1. MANUAL PULL STATION.
 2. DUCT DETECTOR, ONE PER UNIT IN DUCT.
 3. PHOTOELECTRIC SMOKE DETECTOR.
 4. COMMUNICATIONS WIRING LOOP, RETURN TO FACP (CLASS 'A' CIRCUIT).
 5. TYPICAL SYSTEM INITIATION DEVICE, REFER TO PLANS FOR EXACT TYPES AND QUANTITIES.
 6. HVAC SHUT DOWN CIRCUIT, ROUTE TO SHUTDOWN RELAYS AT EACH UNIT.
 7. STROBE UNIT, TYPICAL, MOUNTED AT 80' AFF TO MEET ADA REQUIREMENTS.
 8. COMBINATION HORN/STROBE UNIT, TYPICAL, MOUNTED AT 80' AFF TO MEET ADA REQUIREMENTS.
 9. TO ADDITIONAL HORN/STROBE UNITS NOT INDICATED, RETURN TO FACP (CLASS 'A' CIRCUIT).

1 EXISTING FIRE ALARM RISER
E0.4 NOT TO SCALE

| ACTION | BUILDING SYSTEM OUTPUTS | | | | | | | | | | | | | | | | CENTRAL COMM | | | | | | |
|---|--|-------------------------------|--|-------------------------------------|--|---------------------------------|------------------------------------|--------------------------|---------------------------------|---|--|--|------------------------------|------------------------------|---|----------------------------------|-------------------------------|------------------------------------|--|---|--|--|---|
| | ACTIVATE COMMON ALARM SIGNAL INDICATOR | ACTIVATE AUDIBLE ALARM SIGNAL | ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR | ACTIVATE AUDIBLE SUPERVISORY SIGNAL | ACTIVATE COMMON TROUBLE SIGNAL INDICATOR | ACTIVATE AUDIBLE TROUBLE SIGNAL | ACTIVATE GENERAL EVACUATION SIGNAL | DISPLAY CHANGE OF STATUS | ACTIVATE EXTERNAL HORN / STROBE | TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION | TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION | TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION | RETURN ELEVATOR TO 2ND FLOOR | RETURN ELEVATOR TO 1ST FLOOR | SHUNT TRIP/ELEVATOR REACHES APPROPRIATE FLOOR | SHUT DOWN RESPECTIVE AIR HANDLER | RELEASE MAGNETIC DOOR HOLDERS | SHOW CHANGE OF STATUS ON INDICATOR | SHOW CHANGE OF STATUS ON CENTRAL PANEL | TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION | TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION | TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION | |
| MANUAL FIRE ALARM PULL BOXES | X | X | | | | | | X | X | X | | | | | | | | | X | X | X | | |
| BUILDING SMOKE DETECTOR | X | X | | | | | | X | X | X | X | | | | | | | | X | X | X | | |
| DUCT SMOKE DETECTOR | | | X | X | | | | | | | X | | | | | | X | | | | X | | |
| FIRE ALARM A/C POWER FAILURE | | | | | X | X | | X | | | | | X | | | | | | X | X | | | X |
| FIRE ALARM SYSTEM LOW BATTERY | | | | | X | X | | X | | | | | X | | | | | | X | X | | | X |
| OPEN CIRCUIT | | | | | X | X | | X | | | | | X | | | | | | X | X | | | X |
| GROUND FAULT | | | | | X | X | | X | | | | | X | | | | | | X | X | | | X |
| NOTIFICATION APPLIANCE CIRCUIT SHORT | | | | | X | X | | X | | | | | X | | | | | | X | X | | | X |
| ELEV EQ RM/1ST FLR ELEV LOBBY SMOKE DETECTORS | X | X | | | | | | X | X | X | X | | | X | | | | | X | X | X | | |
| UPPER FLOORS ELEV LOBBY SMOKE DETECTORS | X | X | | | | | | X | X | X | X | | | | X | | | | | | | | |
| GENERATOR BREAKER | | | X | | | | | X | | | | X | | | | X | | | X | X | | | X |

SEQUENCE OF OPERATION:

- ALARM DETECTION: WHEN A FIRE ALARM CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 - SYSTEM ALARM INDICATORS SHALL FLASH CONTINUOUSLY.
 - A LOCAL SOUNDING DEVICE IN THE PANEL SHALL BE ACTIVATED.
 - CONTROL PANEL DISPLAY SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE ALARM AND ITS LOCATION IN THE ALARM MESSAGE QUEUE.
 - APPROPRIATE STATUS CHANGE MESSAGE SHALL BE DISPLAYED ON ALL PRINTERS SO PROGRAMMED.
 - ALL AUTOMATIC PROGRAMS ASSIGNED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED NOTIFICATION APPLIANCE CIRCUITS AND CONTROL RELAYS ADDRESSED AND ACTIVATED.
- TROUBLE DETECTION: WHEN A TROUBLE CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 - SYSTEM TROUBLE INDICATOR SHALL FLASH.
 - A LOCAL SOUNDING DEVICE IN THE PANEL SHALL SOUND.
 - CONTROL PANEL SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE TROUBLE CONDITION AND ITS LOCATION.
 - UNACKNOWLEDGED ALARM MESSAGES SHALL HAVE PRIORITY OVER TROUBLE MESSAGES, AND IF SUCH AN ALARM MUST ALSO BE DISPLAYED, THE TROUBLE MESSAGE WILL NOT BE DISPLAYED UNTIL THE OPERATOR HAS ACKNOWLEDGED ALL ALARM MESSAGES.
- AIR HANDLING UNIT SHUT-DOWN:
 - PROVIDE CONTROL MODULE AT EACH SMOKE DAMPER TO ALLOW DAMPER CLOSURE WHEN SMOKE DETECTOR IS INITIATED.
 - PROVIDE NORMALLY CLOSED AUXILIARY CONTACT FOR EACH RETURN AIR DUCT SMOKE DETECTOR SO THAT SMOKE DETECTOR INITIATION WILL OPEN CONTACT AND SHUT DOWN ASSOCIATED AIR HANDLING UNIT.
- ALARM SIGNALING: WHEN THE DETECTION OF SMOKE IN ANY ELEVATOR LOBBY THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 - THE FACP WILL SIGNAL THE ELEVATOR CONTROLLER TO ENTER PHASE 1 EMERGENCY RECALL.
 - THE ELEVATOR CONTROLLER WILL RETURN THE CAR TO THE APPROPRIATE PRIMARY OR SECONDARY RECALL FLOOR, OPEN THE DOORS AND DEACTIVATE ELEVATOR.
- RE-ACTIVATING THE ELEVATOR: FIRE AND RESCUE PERSONNEL MAY RE-ACTIVATE THE ELEVATOR FOR EMERGENCY USE AND IF SMOKE IS DETECTED IN THE ELEVATOR SHAFT OR MACHINE ROOM THE FOLLOWING SHALL OCCUR:
 - THE FACP SIGNALS THE ELEVATOR TO GO INTO PHASE 2 RECALL AND ILLUMINATE THE FIREMAN'S HAT.
 - PHASE 1 AND PHASE 2 OPERATES BEFORE THE ACTIVATION OF THE HEAT DETECTORS CAUSES THE FACP TO DIRECTLY SHUNT-TRIP THE ELEVATOR POWER.

ANNUNCIATION:

- BUILDING SMOKE DETECTORS SHALL CAUSE AN ALARM TO THE FIRE ALARM SYSTEM.
- ALL VISUAL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
- ALL AUDIBLE NOTIFICATION DEVICES SHALL ALARM WITH THE STANDARD THREE-PULSE TEMPORAL PATTERN WHEN BUILDING EVACUATION IS REQUIRED.
- ALL FIRE ALARM NOTIFICATION CIRCUITS SHALL BE ROUTED IN CONDUIT AND MEET NFPA REQUIREMENTS FOR SURVIVABILITY.

SYSTEM DEVICES:

- PROVIDE ADDRESSABLE DEVICES ONLY IN CONDITIONED SPACES. NO ADDRESSABLE DEVICES ARE ALLOWED IN UNCONDITIONED SPACES.

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
| | | |

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DRAWING NAME
**FIRE ALARM RISER
AND NOTES**

DRAWING NO.
E0.4

Drawn By: RHV Checked By: KCW



12/21/22



ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devitainc.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
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DRAWING NAME ELECTRICAL PANEL SCHEDULES

DRAWING NO. **E0.5**

Drawn By: RHV Checked By: KCW

| Panel: MDP | | | | | | | | | | | |
|----------------------|-------|---------------------|-----|-----------------------|-----------|-----------|--------|--------------------------------------|-------|------|-------|
| Voltage: 480/277 Wye | | | | Min SCCR: EXISTING | | | | Remarks: EXISTING PANEL TO BE DEMOD. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 4 | | | | Feeder Rating: 1200 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 1200 A | | | | Type: MCB | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 60 A | 3 | RELO ELEVATOR | 1 | 7200 | 7200 | | 2 | MAIN ELEVATOR | RELO | 3 | 60 A |
| | | | 3 | | | | 4 | | | | |
| | | | 5 | | | | 6 | | | | |
| | | | 7 | 22500 | 27100 | | 8 | | | | |
| 100 A | 3 | RELO PANEL 'LE' | 9 | | 21200 | 24100 | 10 | PANEL 'LF' & 'LS' | RELO | 3 | 150 A |
| | | | 11 | | | 19650 | 24100 | 12 | | | |
| | | | 13 | 1800 | -- | | 14 | | | | |
| | | | 15 | | 1800 | -- | 16 | SPACE | | 3 | -- |
| 150 A | 3 | RELO PANEL 'KH' | 17 | | | 1800 | -- | 18 | | | |
| | | | 19 | 31800 | -- | | 20 | | | | |
| | | | 21 | | 32450 | -- | 22 | SPACE | | 3 | -- |
| | | | 23 | | | 31700 | -- | 24 | | | |
| | | | 25 | 94900 | 131570 | | 26 | | | | |
| | | | 27 | | 94900 | 132430 | 28 | PANEL 'SDP' VIA XFMR 'DT' | | 3 | 500 A |
| | | | 29 | | | 94900 | 132660 | 30 | | | |
| | | | | 324070 VA | 321280 VA | 316210 VA | | | | | |

| Panel: MDP | | | | | | | | | | | |
|----------------------|-------|---------------------|-----|-----------------------|-----------|-----------|--------|--|-------|------|-------|
| Voltage: 480/277 Wye | | | | Min SCCR: 35K | | | | Remarks: PROPOSED LAYOUT FOR NEW PANEL SEE SHEET ED3 FOR SERVICE LOAD SUMMARY. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 4 | | | | Feeder Rating: 1200 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 1200 A | | | | Type: MCB | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 60 A | 3 | ELEVATOR | 1 | 7200 | 7200 | | 2 | MAIN ELEVATOR | | 3 | 60 A |
| | | | 3 | | | | 4 | | | | |
| | | | 5 | | | | 6 | | | | |
| | | | 7 | 22500 | 27100 | | 8 | | | | |
| 100 A | 3 | PANEL 'LE' | 9 | | 21200 | 24100 | 10 | PANEL 'LF' & 'LS' | | 3 | 150 A |
| | | | 11 | | | 19650 | 24100 | 12 | | | |
| | | | 13 | 30469 | -- | | 14 | | | | |
| | | | 15 | | 30469 | -- | 16 | SPACE | | 3 | -- |
| 150 A | 3 | PANEL 'KH' | 17 | | | 30469 | -- | 18 | | | |
| | | | 19 | 31800 | -- | | 20 | | | | |
| | | | 21 | | 32450 | -- | 22 | SPACE | | 3 | -- |
| | | | 23 | | | 31700 | -- | 24 | | | |
| | | | 25 | 119810 | 119053 | | 26 | | | | |
| | | | 27 | | 119810 | 127660 | 28 | PANEL 'SDP' & PANEL 'SDP-2' VIA XFMR 'DT' | | 3 | 500 A |
| | | | 29 | | | 119810 | 122337 | 30 | | | |
| | | | 31 | -- | -- | -- | 32 | | | | |
| | | | 33 | -- | -- | -- | 34 | SPACE | | 3 | -- |
| | | | 35 | -- | 0 | -- | 36 | | | | |
| | | | 37 | -- | 0 | -- | 38 | | | | |
| | | | 39 | -- | -- | 0 | 40 | SPD | | 3 | 100 A |
| | | | 41 | | | -- | 42 | | | | |
| | | | | 363922 VA | 368889 VA | 361270 VA | | | | | |

- PANEL NOTES:**
- A - AFCI BREAKER
 - G - GFI CIRCUIT BREAKER
 - IG - ISOLATED GROUND CIRCUIT
 - CH - ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
 - LF - PROVIDE PADLOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
 - LO - PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
 - P - PRE-WIRED INTERNAL CIRCUIT BY SWITCHGEAR MANUFACTURER
 - ST - SHUNT TRIP CIRCUIT BREAKER
 - SUB - SUB-FEED CIRCUIT BREAKER
 - E - EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL
 - N - NEW BREAKER INSTALLED IN EXISTING PANEL. REMOVE EXISTING BREAKER IF ONE IS PRESENT.
 - R - REUSE EXISTING BREAKER IN EXISTING PANEL WITH NEW LOAD
 - RELO - EXISTING CIRCUIT TO BE RELOCATED TO NEW PANEL
 - V - CONTRACTOR TO VERIFY WHETHER EXISTING BREAKER IS A SPARE

| Panel: KH (E) | | | | | | | | | | | |
|----------------------|-------|---------------------|-----|----------------------|----------|----------|------|---|-------|------|------|
| Voltage: 480/277 Wye | | | | Min SCCR: 14K | | | | Remarks: EXISTING PANEL LAYOUT, KITCHEN EQUIPMENT NO LONGER IN USE. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 4 | | | | Feeder Rating: 150 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 225 A | | | | Type: MLO | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 15 A | 3 | E FAN FB-3 | 1 | 600 | 1200 | | 2 | AHU-3 | E | 3 | 15 A |
| | | | 3 | | 600 | 1200 | 4 | | | | |
| | | | 5 | | | 600 | 1200 | 6 | | | |
| | | | 7 | 4200 | 4000 | | 8 | | | | |
| 20 A | 3 | E OVEN | 9 | | 4200 | 4000 | 10 | FRYER | E | 3 | 20 A |
| | | | 11 | | | 4200 | 4000 | 12 | | | |
| | | | 13 | 1700 | 1400 | | 14 | | | | |
| | | | 15 | | 1700 | 1400 | 16 | RANGE SPACER | E | 3 | 15 A |
| | | | 17 | | | 1700 | 1400 | 18 | | | |
| | | | 19 | 7300 | -- | | 20 | | | | |
| | | | 21 | | 7300 | -- | 22 | SPACE | | 3 | -- |
| | | | 23 | | | 7300 | -- | 24 | | | |
| | | | | 20400 VA | 20400 VA | 20400 VA | | | | | |

| Panel: KH | | | | | | | | | | | |
|----------------------|-------|---------------------|-----|----------------------|----------|----------|-------|--|-------|------|------|
| Voltage: 480/277 Wye | | | | Min SCCR: 10K | | | | Remarks: PROPOSED LAYOUT FOR EXISTING PANEL. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 4 | | | | Feeder Rating: 150 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 225 A | | | | Type: MLO | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 15 A | 3 | E SPARE | 1 | 0 | 3630 | | 2 | DOAHU-2 CKT #1 | N | 3 | 15 A |
| | | | 3 | | 0 | 3630 | 4 | | | | |
| | | | 5 | | | 0 | 3630 | 6 | | | |
| | | | 7 | 15148 | 13333 | | 8 | | | | |
| | | | 9 | | 15148 | 13333 | 10 | DOAHU-2 CKT #2 | N | 3 | 70 A |
| | | | 11 | | | 15148 | 13333 | 12 | | | |
| | | | 13 | 0 | 0 | | 14 | | | | |
| | | | 15 | | 0 | 0 | 16 | SPARE | E | 3 | 15 A |
| | | | 17 | | | 0 | 0 | 18 | | | |
| | | | 19 | 0 | -- | 0 | 20 | | | | |
| | | | 21 | | | 0 | 22 | SPACE | | 3 | -- |
| | | | 23 | | | 0 | 24 | | | | |
| | | | | 30469 VA | 30469 VA | 30469 VA | | | | | |

| PANEL TOTALS: | | | | | | | | | | | |
|----------------|----------|----------|--------|------------|--------|---------|------|-----------------------------|--|--|--|
| Connected Load | Lighting | HVAC | Motors | Receptacle | Refrig | Kitchen | Misc | | | | |
| | | 91407 VA | | | | | 0 VA | Total Conn. Load: 91407 VA | | | |
| Demand Factor | | 100.00% | | NEC | | | | Total Est. Demand: 91407 VA | | | |
| Demand Load | | 91407 VA | | | | | 0 VA | Total Conn. Current: 110 A | | | |
| | | | | | | | | Total Est. Demand... 110 A | | | |

| Panel: MC | | | | | | | | | | | |
|-------------------|-------|------------------------|-----|----------------------|----------|----------|-------|---|-------|------|-------|
| Voltage: 480 Wye | | | | Min SCCR: EXISTING | | | | Remarks: EXISTING PANEL TO BE DEMOD. SEE PROPOSED RISER DIAGRAM FOR MORE INFORMATION. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 3 | | | | Feeder Rating: 500 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 600 A | | | | Type: MLO | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 15 A | 3 | FAN FM-1 | 1 | 1200 | 500 | | 2 | FAN FM-2 | | 3 | 15 A |
| | | | 3 | | | | 4 | | | | |
| | | | 5 | | | | 6 | | | | |
| | | | 7 | 900 | 900 | | 8 | | | | |
| 15 A | 3 | PUMP P-1 | 9 | | 900 | 900 | 10 | PUMP P-2 | | 3 | 15 A |
| | | | 11 | | | 900 | 900 | 12 | | | |
| | | | 13 | 3700 | 9000 | | 14 | | | | |
| | | | 15 | | 3700 | 9000 | 16 | (E)AHU-1 | | 3 | 70 A |
| | | | 17 | | | 3700 | 9000 | 18 | | | |
| | | | 19 | 0 | 2500 | | 20 | | | | |
| 15 A | 3 | CONTROLS - AIR COMP | 21 | | 0 | 2500 | 22 | UNIT HEATER E(UH) | RELO | 3 | 15 A |
| | | | 23 | | | 0 | 2500 | 24 | | | |
| | | | 25 | 11400 | -- | | 26 | | | | |
| | | | 27 | | 11400 | -- | 28 | SPACE | | 3 | -- |
| | | | 29 | | | 11400 | -- | 30 | | | |
| | | | 31 | 19400 | 19400 | | 32 | | | | |
| 175 A | 3 | CHILLER E(CH-1) CKT #1 | 33 | | 19400 | 19400 | 34 | CHILLER E(CH-1) CKT #2 | | 3 | 175 A |
| | | | 35 | | | 19400 | 19400 | 36 | | | |
| | | | 37 | -- | 26000 | -- | 38 | | | | |
| | | | 39 | | | -- | 40 | CHILLER E(CH-2) | | 3 | 150 A |
| | | | 41 | | | -- | 42 | | | | |
| | | | | 94900 VA | 94900 VA | 94900 VA | | | | | |

| Panel: M3 | | | | | | | | | | | |
|-------------------|-------|---------------------|-----|----------------------|--------|--------|------|---|-------|------|------|
| Voltage: 480 Wye | | | | Min SCCR: 35K | | | | Remarks: PROPOSED LAYOUT FOR NEW PANEL. | | | |
| Phases: 3 | | | | Mounting: SURFACE | | | | | | | |
| Wires: 3 | | | | Feeder Rating: 600 A | | | | | | | |
| Enclosure: TYPE 1 | | | | Panel Rating: 600 A | | | | Type: MLO | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR | |
| 40 A | 3 | HP-01 | 1 | 7760 | 5265 | | 2 | DOAHP-1 CKT #1 | | 3 | 30 A |
| | | | 3 | | 7760 | 5265 | 4 | | | | |
| | | | 5 | | | 7760 | 5265 | 6 | | | |
| | | | 7 | 4988 | 5265 | | 8 | | | | |
| 25 A | 3 | HP-11 | 9 | | 4988 | 5265 | 10 | DOAHP-1 CKT #2 | | 3 | 30 A |
| | | | 11 | | | 4988 | 5265 | 12 | | | |
| | | | 13 | 4157 | 3048 | | 14 | | | | |
| | | | 15 | | 4157 | 3048 | 16 | DOAHP-1 CKT #3 | | 3 | 15 A |
| | | | 17 | | | 4157 | 3048 | 18 | | | |
| | | | 19 | 4157 | 5820 | | 20 | | | | |
| 20 A | 3 | HP-12 CKT #1 | 21 | | 4157 | 5820 | 22 | DOAHP-2 | | 3 | 35 A |
| | | | 23 | | | 4157 | 5820 | 24 | | | |
| | | | | | | | | | | | |



DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
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DRAWING NAME ELECTRICAL PANEL SCHEDULES

DRAWING NO. **E0.6**
Drawn By: RHV Checked By: KCW

| Panel: K (E) | | | | | | | | | | |
|---|-------|------------------------------|-----|----------|---------|---------|-----|---------------------|-------|--------|
| Remarks: EXISTING PANEL LAYOUT. OTHER THAN REFRIGERATOR, NO OTHER KITCHEN EQUIPMENT IN USE. | | | | | | | | | | |
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | | | | | | | |
| Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Type: MLO | | | | | | | | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A | 1 | E REC - STEEP-IN COOLER | 1 | 830 | 1440 | | 2 | FIRE CONTROL HOOD | E | 1 20 A |
| 20 A | 1 | E REC - KITCHEN | 3 | | 900 | 900 | 4 | REC - KITCHEN | E | 1 20 A |
| 20 A | 1 | E REC - KITCHEN | 5 | | | | 6 | REC - TABLE | E | 1 20 A |
| 15 A | 1 | E SPARE | 7 | 0 | 900 | | 8 | REC - KITCHEN | E | 1 20 A |
| 15 A | 1 | E SPARE | 9 | | 0 | 900 | 10 | REC - REFRIGERATOR | E | 1 20 A |
| 20 A | 2 | E HOT FOOD WELLS | 11 | 1000 | 2850 | | 12 | REC - ICE MACHINE | E | 1 20 A |
| 60 A | 2 | E DISHWASHER | 13 | | 0 | 2850 | 14 | COFFEE URN | E | 3 30 A |
| | | | 15 | 0 | 1200 | | 16 | DISPOSAL | E | 3 20 A |
| 40 A | 3 | E SINK HEATER | 17 | | 0 | 1200 | 18 | STEP-IN FREEZER | E | 2 15 A |
| 20 A | 1 | E REC - COMPUTER BY HOLDING | 19 | 900 | 900 | | 20 | SPACE | | 1 -- |
| 20 A | 1 | E REC - SECURITY, SALLY PORT | 21 | | | | 21 | SPACE | | 1 -- |
| 20 A | 1 | E SPARE | 22 | 0 | -- | | 22 | SPACE | | 1 -- |
| 100 A | 3 | E DRYER | 23 | | 0 | -- | 23 | SPACE | | 1 -- |
| | | | 24 | | 0 | -- | 24 | SPACE | | 1 -- |
| | | | 25 | 10020 VA | 7950 VA | 7750 VA | 25 | 20948 VA | | |
| | | | 26 | | | | 26 | 20773 VA | | |
| | | | 27 | | | | 27 | 21631 VA | | |

| Panel: K | | | | | | | | | | |
|--|-------|------------------------------|-----|--------|--------|--------|-----|-----------------------------|-------|--------|
| Remarks: PROPOSED LAYOUT FOR EXISTING PANEL | | | | | | | | | | |
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | | | | | | | |
| Min SCCR: 10K Mounting: SURFACE Feeder Rating: 175 A Type: MLO | | | | | | | | | | |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A | 1 | N REC - OFFICES 134, 139 | 1 | 1440 | 400 | | 2 | REC - EWC | N, G | 1 20 A |
| 20 A | 1 | E REC - KITCHEN | 3 | | 900 | 1080 | 4 | REC - STORAGE 172, CORRIDOR | N | 1 20 A |
| 20 A | 1 | E REC - KITCHEN | 5 | | | | 6 | REC - TABLE | E | 1 20 A |
| 70 A | 3 | N PANEL 'MB' | 9 | 3373 | 900 | | 10 | REC - KITCHEN | E | 1 20 A |
| | | | 11 | | 3190 | 900 | 12 | REC - REFRIGERATOR | E | 1 20 A |
| 20 A | 1 | N REC - WORKROOM 124 | 13 | 360 | 1440 | | 14 | REC - OFFICES 112, 113 | N | 1 20 A |
| 20 A | 1 | N REC - OFFICES 116, 135 | 15 | | 1440 | 540 | 16 | REC - OFFICES 110, 111 | N | 1 20 A |
| 20 A | 1 | N REC - RECEPTION 136 | 17 | | | | 18 | REC - WOMENS RESTROOM... | N | 1 20 A |
| 20 A | 1 | N REC - OFFICES 125, 126 | 19 | 1440 | 720 | | 20 | REC - OFFICES 106 | N | 1 20 A |
| 20 A | 1 | N REC - OFFICES 118, 119 | 21 | | 1440 | 1440 | 22 | REC - OFFICE 117 | N | 1 20 A |
| 20 A | 1 | N REC - OFFICES 120, 123 | 23 | | | | 24 | REC - CONFERENCE 141 | N | 1 20 A |
| 20 A | 1 | E REC - COMPUTER BY HOLDING | 25 | 900 | 1560 | | 26 | REC - CONFERENCE 141 | N | 1 20 A |
| 20 A | 1 | E REC - SECURITY, SALLY PORT | 27 | | 900 | 537 | 28 | LTG - BASEMENT OFFICES | N | 1 20 A |
| 20 A | 1 | N REC - OFFICES 130 | 29 | | | | 29 | LTG - BASEMENT CORRIDOR | N | 1 20 A |
| 100 A | 3 | E DRYER | 31 | 8406 | -- | | 30 | LTG - OFFICE 106, TOILETS | N | 1 20 A |
| | | | 32 | | | | 31 | SPACE | | 1 -- |
| | | | 33 | | | | 32 | SPACE | | 1 -- |
| | | | 34 | | | | 33 | SPACE | | 1 -- |
| | | | 35 | | | | 34 | SPACE | | 1 -- |
| | | | 36 | | | | 35 | SPACE | | 1 -- |
| | | | 37 | | | | 36 | SPACE | | 1 -- |
| | | | 38 | | | | 37 | SPACE | | 1 -- |
| | | | 39 | | | | 38 | SPACE | | 1 -- |
| | | | 40 | | | | 39 | SPACE | | 1 -- |
| | | | 41 | | | | 40 | SPACE | | 1 -- |
| | | | 42 | | | | 41 | SPACE | | 1 -- |
| | | | 43 | | | | 42 | SPACE | | 1 -- |
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| | | | 47 | | | | 46 | SPACE | | 1 -- |
| | | | 48 | | | | 47 | SPACE | | 1 -- |
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| | | | 50 | | | | 49 | SPACE | | 1 -- |
| | | | 51 | | | | 50 | SPACE | | 1 -- |
| | | | 52 | | | | 51 | SPACE | | 1 -- |
| | | | 53 | | | | 52 | SPACE | | 1 -- |
| | | | 54 | | | | 53 | SPACE | | 1 -- |
| | | | 55 | | | | 54 | SPACE | | 1 -- |
| | | | 56 | | | | 55 | SPACE | | 1 -- |
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| | | | 58 | | | | 57 | SPACE | | 1 -- |
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| | | | 61 | | | | 60 | SPACE | | 1 -- |
| | | | 62 | | | | 61 | SPACE | | 1 -- |
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| | | | 64 | | | | 63 | SPACE | | 1 -- |
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| | | | 77 | | | | 76 | SPACE | | 1 -- |
| | | | 78 | | | | 77 | SPACE | | 1 -- |
| | | | 79 | | | | 78 | SPACE | | 1 -- |
| | | | 80 | | | | 79 | SPACE | | 1 -- |
| | | | 81 | | | | 80 | SPACE | | 1 -- |
| | | | 82 | | | | 81 | SPACE | | 1 -- |
| | | | 83 | | | | 82 | SPACE | | 1 -- |
| | | | 84 | | | | 83 | SPACE | | 1 -- |
| | | | 85 | | | | 84 | SPACE | | 1 -- |
| | | | 86 | | | | 85 | SPACE | | 1 -- |
| | | | 87 | | | | 86 | SPACE | | 1 -- |
| | | | 88 | | | | 87 | SPACE | | 1 -- |
| | | | 89 | | | | 88 | SPACE | | 1 -- |
| | | | 90 | | | | 89 | SPACE | | 1 -- |
| | | | 91 | | | | 90 | SPACE | | 1 -- |
| | | | 92 | | | | 91 | SPACE | | 1 -- |
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| | | | 95 | | | | 94 | SPACE | | 1 -- |
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| | | | 105 | | | | 104 | SPACE | | 1 -- |
| | | | 106 | | | | 105 | SPACE | | 1 -- |
| | | | 107 | | | | 106 | SPACE | | 1 -- |
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| | | | 110 | | | | 109 | SPACE | | 1 -- |
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| | | | 112 | | | | 111 | SPACE | | 1 -- |
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| | | | 115 | | | | 114 | SPACE | | 1 -- |
| | | | 116 | | | | 115 | SPACE | | 1 -- |
| | | | 117 | | | | 116 | SPACE | | 1 -- |
| | | | 118 | | | | 117 | SPACE | | 1 -- |
| | | | 119 | | | | 118 | SPACE | | 1 -- |
| | | | 120 | | | | 119 | SPACE | | 1 -- |
| | | | 121 | | | | 120 | SPACE | | 1 -- |
| | | | 122 | | | | 121 | SPACE | | 1 -- |
| | | | 123 | | | | 122 | SPACE | | 1 -- |
| | | | 124 | | | | 123 | SPACE | | 1 -- |
| | | | 125 | | | | 124 | SPACE | | 1 -- |
| | | | 126 | | | | 125 | SPACE | | 1 -- |
| | | | 127 | | | | 126 | SPACE | | 1 -- |
| | | | 128 | | | | 127 | SPACE | | 1 -- |
| | | | 129 | | | | 128 | SPACE | | 1 -- |
| | | | 130 | | | | 129 | SPACE | | 1 -- |
| | | | 131 | | | | 130 | SPACE | | 1 -- |
| | | | 132 | | | | 131 | SPACE | | 1 -- |
| | | | 133 | | | | 132 | SPACE | | 1 -- |
| | | | 134 | | | | 133 | SPACE | | 1 -- |
| | | | 135 | | | | 134 | SPACE | | 1 -- |
| | | | 136 | | | | 135 | SPACE | | 1 -- |
| | | | 137 | | | | 136 | SPACE | | 1 -- |
| | | | 138 | | | | 137 | SPACE | | 1 -- |
| | | | 139 | | | | 138 | SPACE | | 1 -- |
| | | | 140 | | | | 139 | SPACE | | 1 -- |
| | | | 141 | | | | 140 | SPACE | | 1 -- |
| | | | 142 | | | | 141 | SPACE | | 1 -- |
| | | | 143 | | | | 142 | SPACE | | 1 -- |
| | | | 144 | | | | 143 | SPACE | | 1 -- |
| | | | 145 | | | | 144 | SPACE | | 1 -- |
| | | | 146 | | | | 145 | SPACE | | 1 -- |
| | | | 147 | | | | 146 | SPACE | | 1 -- |
| | | | 148 | | | | 147 | SPACE | | 1 -- |
| | | | 149 | | | | 148 | SPACE | | 1 -- |
| | | | 150 | | | | 149 | SPACE | | 1 -- |
| | | | 151 | | | | 150 | SPACE | | 1 -- |
| | | | 152 | | | | 151 | SPACE | | 1 -- |
| | | | 153 | | | | 152 | SPACE | | 1 -- |
| | | | 154 | | | | 153 | SPACE | | 1 -- |
| | | | 155 | | | | 154 | SPACE | | 1 -- |
| | | | 156 | | | | 155 | SPACE | | 1 -- |
| | | | 157 | | | | 156 | SPACE | | 1 -- |
| | | | 158 | | | | 157 | SPACE | | 1 -- |
| | | | 159 | | | | 158 | SPACE | | 1 -- |
| | | | 160 | | | | 159 | SPACE | | 1 -- |
| | | | 161 | | | | 160 | SPACE | | 1 -- |
| | | | 162 | | | | 161 | SPACE | | 1 -- |
| | | | 163 | | | | 162 | SPACE | | 1 -- |
| | | | 164 | | | | 163 | SPACE | | 1 -- |
| | | | 165 | | | | 164 | SPACE | | 1 -- |
| | | | 166 | | | | 165 | SPACE | | 1 -- |
| | | | 167 | | | | 166 | SPACE | | 1 -- |
| | | | 168 | | | | 167 | SPACE | | 1 -- |
| | | | 169 | | | | 168 | SPACE | | 1 -- |
| | | | 170 | | | | | | | |



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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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DRAWING NAME ELECTRICAL PANEL SCHEDULES

DRAWING NO. **E0.7**
Drawn By: RHV Checked By: KCW

| Panel: PF (E) | | | | | | | | | | |
|--|-------|------------------------------|-----|---|----------|----------|-----------|--------------------------------|-------|-----------------------------------|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Panel Rating: 225 A | | | Type: MLO | | | Remarks: EXISTING PANEL LAYOUT |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - VENDING | 1 | 1500 | 1000 | | 2 | REC - VENDING | E | 1 20 A |
| 20 A 1 | E | REC - VENDING | 3 | | 1500 | 1500 | 4 | REC - VENDING | E | 1 20 A |
| 20 A 1 | E | REC - VENDING | 5 | | | | 6 | REC - VENDING | E | 1 20 A |
| 20 A 1 | E | REC - EWC | 7 | 670 | 900 | | 8 | REC - PUBLIC SERVICE, HALL | E | 1 20 A |
| 20 A 1 | E | REC - TOILETS | 9 | | | | 10 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - SUPPLY & PUBLIC... | 11 | | 900 | 670 | 12 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - SUPPLY, PUBLIC SERVICE | 11 | | | | 12 | REC - MEN'S WOMENS... | E | 1 20 A |
| 20 A 1 | E | REC - CONFERENCE | 13 | 900 | 900 | | 14 | REC - MICROFILM | E | 1 20 A |
| 20 A 1 | E | REC - LOBBY | 15 | | | | 16 | REC - ACTIVE STORAGE | E | 1 20 A |
| 20 A 1 | E | REC - FINANCE OFFICE | 17 | | | | 18 | REC - REGISTER OF DEEDS OFFICE | E | 1 20 A |
| 20 A 1 | E | REC - OUTSIDE | 19 | 900 | 900 | | 20 | REC - COMP. ROOM CLERK | E | 1 20 A |
| 20 A 1 | E | REC - VAULT, FINANCE/HR... | 21 | | | | 22 | FAN BOX | E | 1 20 A |
| 20 A 1 | E | REC - RECORDS/DEEDS | 23 | | | | 24 | FAN BOX | E | 1 20 A |
| 20 A 1 | E | REC - CHAIR LIFT | 25 | 1000 | 700 | | 26 | FAN BOX | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 27 | | 1000 | 700 | 28 | FAN BOX | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 29 | | | | 30 | REC - TELEPHONE | E | 1 20 A |
| 20 A 1 | E | LTG - TOILETS | 31 | 1000 | 300 | | 32 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | LTG - ENTRY | 33 | | | | 34 | REC - CLERK OF COURTS OFFICE | E | 1 20 A |
| 20 A 1 | E | LTG - ENTRY | 35 | | | | 36 | COMP. CLERK OF COURT | E | 1 20 A |
| 20 A 1 | E | SPARE | 37 | 0 | 5400 | | 38 | COMP. CLERK OF COURT | E | 1 20 A |
| 20 A 1 | E | SHADE MOTOR | 39 | | 1200 | 5400 | 40 | PANEL 'PF' | E | 3 60 A |
| 20 A 1 | E | CHAIR LIFT | 41 | | | | 42 | | | |
| | | | | 16070 VA | 18170 VA | 17100 VA | | | | |

| Panel: PS (E) | | | | | | | | | | |
|--|-------|-------------------------------|-----|---|----------|----------|-----------|-------------------------------|-------|------------------------------------|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Panel Rating: 225 A | | | Type: MLO | | | Remarks: EXISTING PANEL LAYOUT. |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - CONFERENCE, JUDGE | 1 | 900 | 900 | | 2 | REC - SUPERIOR CRT, JUDGE | E | 1 20 A |
| 20 A 1 | E | REC - JUDGE OFFICES | 3 | | 900 | 900 | 4 | REC - JURY RM, HALL, TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - JURY POOL, DIS. CRIM... | 5 | | | | 6 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - DIST. CRIMINAL COURT | 7 | 900 | 670 | | 8 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - JURY POOL | 9 | | 900 | 900 | 10 | REC - DIST. CIVIL CRT | E | 1 20 A |
| 15 A 1 | E | FAN BOX - CONF. | 11 | | | 0 | 12 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - JURY ROOM | 13 | 900 | 670 | | 14 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - SUPERIOR CRT... | 15 | | | | 16 | REC - PUBLIC WAITING, TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - DIST. CRM CRT | 17 | | 900 | 900 | 18 | REC - TOILETS, PUBLIC WAITING | E | 1 20 A |
| 20 A 1 | E | REC - HALL, SUPERIOR CRT | 19 | 900 | 900 | | 20 | REC - CONFERENCE, WITNESS | E | 1 20 A |
| 20 A 1 | E | REC - SUPERIOR CRT, HALL | 21 | | 900 | 1000 | 22 | REC - SUPERIOR CRT, JUDGE | E | 1 20 A |
| 20 A 1 | E | REC - HALL, JUDGE | 23 | | | | 24 | REC - COURT REP, JUDGE, CONF. | E | 1 20 A |
| 15 A 1 | E | SPARE | 25 | 0 | 700 | | 26 | FAN BOX - JUDGE | E | 1 15 A |
| 20 A 1 | E | FAN BOX - JUDGE | 27 | | | 700 | 28 | FAN BOX - HALL | E | 1 15 A |
| 20 A 1 | E | FAN BOX - MAIN HALL | 29 | | | | 30 | FAN BOX - HALL | E | 1 15 A |
| 20 A 1 | E | FAN BOX - MAIN HALL | 31 | 700 | 700 | | 32 | FAN BOX - DIS. CRT JUDGE | E | 1 15 A |
| 20 A 1 | E | SPARE | 33 | | 0 | 1200 | 34 | LTG - LOBBY | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 35 | | | | 36 | SPARE | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 37 | 900 | 1500 | | 38 | LTG - DIST. CRIMINAL COURT | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 39 | | | | 40 | LTG - DIST. CIVIL COURT | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 41 | | | | 42 | LTG - SUPERIOR CIVIL COURT | E | 1 20 A |
| | | | | 16340 VA | 15900 VA | 14570 VA | | | | |

| Panel: PM (E) | | | | | | | | | | |
|--|-------|-------------------------|-----|---|---------|---------|-----------|------------------------------|-------|-----------------------------------|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Panel Rating: 225 A | | | Type: MLO | | | Remarks: EXISTING PANEL LAYOUT |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - PENTHOUSE | 1 | 900 | 900 | | 2 | REC - PENTHOUSE, HEAT TAPE | E | 1 20 A |
| 20 A 1 | E | WP REC - PENTHOUSE | 3 | | | | 4 | REC - MEZZANINE | E | 1 20 A |
| 20 A 1 | E | AFTERCOOLER - PENTHOUSE | 5 | | | | 6 | REC - COFFEE | E | 1 20 A |
| 20 A 1 | E | REC - OFFICE | 7 | 900 | 1500 | | 8 | HEAT TAPE - MAIN WATER LINES | E | 1 20 A |
| 20 A 1 | E | COMPUTER - JUDGE EXHUMS | 9 | | | | 10 | HEAT TAPE - MAIN WATER LINES | E | 1 20 A |
| 20 A 1 | E | COMPUTER - JUDGE EXHUMS | 11 | | | | 12 | A/C CONTROLS | E | 1 20 A |
| -- 1 | | SPACE | 13 | -- | 900 | -- | 14 | REC - CASHIER | E | 1 20 A |
| -- 1 | | SPACE | 15 | -- | -- | -- | 16 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 17 | -- | -- | -- | 18 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 19 | -- | -- | -- | 20 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 21 | -- | -- | -- | 22 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 23 | -- | -- | -- | 24 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 25 | -- | -- | -- | 26 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 27 | -- | -- | -- | 28 | SPACE | E | 1 -- |
| -- 1 | | SPACE | 29 | -- | -- | -- | 30 | SPACE | E | 1 -- |
| | | | | 5100 VA | 4200 VA | 2890 VA | | | | |

| Panel: EC | | | | | | | | | | |
|--|-------|---------------------|-----|---|---------|---------|-----------|---------------------|-------|---|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: EXISTING Mounting: SURFACE Feeder Rating: 60 A Panel Rating: 100 A | | | Type: MLO | | | Remarks: PROPOSED LAYOUT FOR EXISTING PANEL. |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - COMMUNICATION | 1 | 900 | 900 | | 2 | REC - COMMUNICATION | E | 1 20 A |
| 20 A 1 | E | REC - COMMUNICATION | 3 | | | | 4 | REC - COMMUNICATION | E | 1 20 A |
| 20 A 1 | E | REC - COMMUNICATION | 5 | | | | 6 | REC - COMMUNICATION | E | 1 20 A |
| 20 A 1 | E | REC - COMMUNICATION | 7 | 900 | 200 | | 8 | SMOKE DAMPER RELAY | N.V. | 1 20 A |
| 20 A 1 | E | REC - COMMUNICATION | 9 | | | | 10 | FIRE ALARM | E | 1 20 A |
| 20 A 1 | E | REC - COMMUNICATION | 11 | | | | 12 | SPARE | E | 1 20 A |
| 20 A 1 | N.V. | LTG - TOILETS | 13 | 183 | 0 | | 14 | SPARE | E | 1 20 A |
| 20 A 1 | N.V. | LTG - CORRIDORS | 15 | | 517 | 0 | 16 | SPARE | E | 1 20 A |
| 20 A 1 | E | SPARE | 17 | | | | 18 | SPARE | E | 1 20 A |
| | | | | 3083 VA | 4217 VA | 2700 VA | | | | |

| Panel TOTALS: | | | | | | | | | | |
|----------------|----------|---------|--------|----------------------|--------|---------|----------|---------|--|--|
| Connected Load | Lighting | HVAC | Motors | Receptacle | Refrig | Kitchen | Misc | 1000 VA | | |
| Demand Factor | 125.00% | 100.00% | NEC | Total Conn. Load: | | | 10000 VA | | | |
| Demand Load | 875 VA | 8100 VA | | Total Est. Demand: | | | 10175 VA | | | |
| | | | | Total Conn. Current: | | | 28 A | | | |
| | | | | Total Est. Demand... | | | 28 A | | | |

| Panel: PF | | | | | | | | | | |
|--|-------|------------------------------|-----|---|----------|----------|-----------|---------------------------------|-------|---|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Panel Rating: 225 A | | | Type: MLO | | | Remarks: PROPOSED LAYOUT FOR EXISTING PANEL. |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - VENDING | 1 | 1500 | 900 | | 2 | REC - VENDING & LOUNGE | E | 1 20 A |
| 20 A 1 | E | REC - VENDING | 3 | | | | 4 | REC - VENDING & LOUNGE | E | 1 20 A |
| 20 A 1 | E | REC - VENDING | 5 | | | | 6 | REC - CLERK OFF, PUBLIC SERVICE | E | 1 20 A |
| 15 A 1 | E | REC - EWC | 7 | 500 | 900 | | 8 | REC - PUBLIC SERVICE, HALL | E | 1 20 A |
| 20 A 1 | E | REC - TOILETS | 9 | | | | 10 | REC - EWC | E | 1 15 A |
| 20 A 1 | E | REC - SUPPLY, PUBLIC SERVICE | 11 | | | | 12 | REC - MEN, WOMEN RESTROOM | E | 1 20 A |
| 20 A 1 | E | REC - CONFERENCE | 13 | 900 | 900 | | 14 | REC - MICROFILM | E | 1 20 A |
| 20 A 1 | E | REC - LOBBY | 15 | | | | 16 | REC - ACTIVE STORAGE DEEDS | E | 1 20 A |
| 20 A 1 | E | REC - FINANCE OFFICE | 17 | | | | 18 | REC - REG. OF DEEDS | E | 1 20 A |
| 20 A 1 | E | WP REC - OUTSIDE | 19 | 900 | 900 | | 20 | REC - COMP. CLERK | E | 1 20 A |
| 20 A 1 | E | REC - VAULT, FINANCE/HR... | 21 | | | | 22 | SPARE | E | 1 15 A |
| 20 A 1 | E | REC - RECORDS, DEEDS | 23 | | | | 24 | | | |
| 20 A 1 | E | REC - CHAIR LIFT | 25 | 1000 | 6959 | | 26 | PANEL 'M1' | N | 3 80 A |
| 20 A 1 | E | LTG - LOBBY | 27 | | | | 28 | | | |
| 20 A 1 | E | LTG - LOBBY | 29 | | | | 30 | REC - TELEPHONE | E | 1 20 A |
| 20 A 1 | E | LTG - TOILETS | 31 | 1540 | 300 | | 32 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | LTG - ENTRY | 33 | | | | 34 | REC - CLERK OF COURTS OFFICE | E | 1 20 A |
| 20 A 1 | E | LTG - ENTRY | 35 | | | | 36 | REC - COMP. CLERK OF COURTS | E | 1 20 A |
| 20 A 2 | E | UNKNOWN LOAD | 37 | 900 | 7200 | | 38 | | | |
| 20 A 1 | E | CHAIR LIFT | 41 | | | | 40 | PANEL 'PF' | E | 3 60 A |
| | | | | 25299 VA | 24199 VA | 24891 VA | | | | |

| Panel TOTALS: | | | | | | | | | | |
|----------------|----------|----------|--------|----------------------|--------|---------|----------|----------|--|--|
| Connected Load | Lighting | HVAC | Motors | Receptacle | Refrig | Kitchen | Misc | 11440 VA | | |
| Demand Factor | 100.00% | 100.00% | NEC | Total Conn. Load: | | | 74476 VA | | | |
| Demand Load | 14357 VA | 14357 VA | | Total Est. Demand: | | | 55128 VA | | | |
| | | | | Total Conn. Current: | | | 207 A | | | |
| | | | | Total Est. Demand... | | | 153 A | | | |

| Panel: PS | | | | | | | | | | |
|--|-------|-------------------------------|-----|---|--------|--------|-----------|-------------------------------|-------|---|
| Voltage: 120/208 Wye Phases: 3 Wires: 4 Enclosure: TYPE 1 | | | | Min SCCR: 10K Mounting: SURFACE Feeder Rating: 225 A Panel Rating: 225 A | | | Type: MLO | | | Remarks: PROPOSED LAYOUT FOR EXISTING PANEL. |
| BRKR | Notes | Circuit Description | CKT | A (VA) | B (VA) | C (VA) | CKT | Circuit Description | Notes | BRKR |
| 20 A 1 | E | REC - CONFERENCE, JUDGE | 1 | 900 | 900 | | 2 | REC - SUPERIOR CRT, JUDGE | E | 1 20 A |
| 20 A 1 | E | REC - JUDGE OFFICES | 3 | | | | 4 | REC - JURY RM, HALL, TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - JURY POOL, DIS. CRIM... | 5 | | | | 6 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - DIST. CRIMINAL COURT | 7 | 900 | 670 | | 8 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - JURY POOL | 9 | | | | 10 | REC - DIST. CIVIL CRT | E | 1 20 A |
| 15 A 1 | E | SPARE | 11 | | | 0 | 12 | LTG - TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - JURY ROOM | 13 | 900 | 670 | | 14 | REC - EWC | E | 1 20 A |
| 20 A 1 | E | REC - SUPERIOR CRT... | 15 | | | | 16 | REC - PUBLIC WAITING, TOILETS | E | 1 20 A |
| 20 A 1 | E | REC - DIST. CRM CRT | 17 | | | | 18 | REC - TOILETS, PUBLIC WAITING | E | 1 20 A |
| 20 A 1 | E | REC - HALL, SUPERIOR CRT | 19 | 900 | 900 | | 20 | REC - CONFERENCE, WITNESS | E | 1 20 A |
| 20 A 1 | E | REC - SUPERIOR CRT, HALL | 21 | | | | 22 | REC - DISTRICT CRT, JUDGE | E | 1 20 A |
| 20 A 1 | E | REC - HALL, JUDGE | 23 | | | | 24 | REC - COURT REP, JUDGE, CONF. | E | 1 20 A |
| 15 A 1 | E | SPARE | 25 | 0 | 0 | | 26 | FAN BOX - JUDGE | E | 1 15 A |
| 20 A 1 | E | FAN BOX - JUDGE | 27 | | | | 28 | FAN BOX - HALL | E | 1 15 A |
| 20 A 1 | E | FAN BOX - MAIN HALL | 29 | | | | 30 | SPARE | E | 1 15 A |
| 20 A 1 | E | FAN BOX - MAIN HALL | 31 | 8734 | 0 | | 32 | SPARE | E | 1 15 A |
| 20 A 1 | E | SPARE | 33 | | | | 34 | LTG - LOBBY | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 35 | | | | 36 | SPARE | E | 1 20 A |
| 20 A 1 | E | LTG - LOBBY | 37 | 900 | 1500 | | 38 | LTG - DIST. CRIMINAL COURT | E | 1 20 A |
| 20 A 1 | | | | | | | | | | |



12/21/22



DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

| NO. | DATE | DESCRIPTION |
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| | | |

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DRAWING NAME ELECTRICAL SCHEDULES

DRAWING NO. **E0.8**

Drawn By: RHV Checked By: KCW

LIGHTING FIXTURE SCHEDULE

| FIXTURE MARK | FIXTURE DESCRIPTION | LAMP TYPE AND LUMENS | VOLTAGE | FIXTURE WATTS | MOUNTING METHOD AND HEIGHT | ACCEPTABLE MANUFACTURERS | REMARKS |
|--------------|------------------------|-----------------------------|---------|---------------|----------------------------|---|---|
| A | 2X4 LAY-IN TROFFER | LED 4000K 4000 LUMENS | 120 | 35 | CEILING RECESSED | MANUF: HE WILLIAMS PART # AT1 - 2.4 - L40 - 80 - 40 - DIM - UNIV. OR EQUAL BY LITHONIA OR METALUX | |
| B | 2X2 LAY-IN TROFFER | LED 4000K 4000 LUMENS | 120 | 37 | CEILING RECESSED | MANUF: HE WILLIAMS PART # AT1 - 2.2 - L40 - 80 - 40 - DIM - UNIV. OR EQUAL BY LITHONIA OR METALUX | |
| C | 4" RECESSED DOWNLIGHT | LED 4000K 1500 LUMENS | 120 | 20 | CEILING RECESSED | MANUF: GOTHAM PART # EVO4 40/15 AR WD LS MVOLT G210. OR EQUAL BY PRESCOLITE OR PORTILUO | |
| UT | 4" UTILITY STRIP LIGHT | LED 4000K 3000 LUMENS | 120 | 30 | CEILING SURFACE | MANUF: LITHONIA PART # ZL1D L48 3000LM FST MOVLT 40K. OR EQUAL BY HE WILLIAMS OR METALUX | |
| WP | WEATHERPROOF WALL PACK | LED 4000K 3000 LUMENS | 120 | 18 | WALL/SURFACE | MANUF: LITHONIA PART # WDG2 LED P3 40K 80CRI VW MVOLT SRM. OR EQUAL BY LUMARK OR HUBBELL | |
| X | EXIT SIGN | LED | 120 | 5 | CEILING/WALL | MANUF: LITHONIA PART # LOM S W 3 R MVOLT. OR EQUAL BY SURE-LITES OR DUAL-LITE | MATCH NUMBER OF FACES SHOWN ON DRAWINGS |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

A. FINISHES SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO ORDERING.

B. LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE CONFORMANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDERED.

C. LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.

D. CONTRACTOR SHALL ENSURE THAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WITH FIXTURES AND LAMPS.

E. CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARE FOR PENDANT MOUNTED FIXTURES. VERIFY TYPE REQUIRED WITH ARCHITECT.

F. CONTRACTOR SHALL PROVIDE MOUNTING KITS AND/OR ACCESSORIES REQUIRED FOR INSTALLING FIXTURES IN VARIOUS CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY CODE: PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE
LAMP TYPE REQUIRED IN FIXTURE SEE LIGHTING FIXTURE SCHEDULE THIS SHEET
NUMBER OF LAMPS IN FIXTURE SEE LIGHTING FIXTURE SCHEDULE THIS SHEET
BALLAST TYPE USED IN THE FIXTURE ENERGY EFFICIENT, LED DRIVERS
NUMBER OF BALLASTS IN FIXTURE 1 OR 2
TOTAL WATTAGE PER FIXTURE SEE LIGHTING FIXTURE SCHEDULE THIS SHEET
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED 3041 VS 4484
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 15 VS 20

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED BY MECHANICAL SYSTEMS)
MOTOR HORSEPOWER N/A
NUMBER OF PHASES N/A
MINIMUM EFFICIENCY N/A
MOTOR TYPE N/A
NUMBER OF POLES N/A

ADDITIONAL PRESCRIPTIVE COMPLIANCE
 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
 506.2.2 REDUCED LIGHTING POWER DENSITY
 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS
 N/A

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE ENERGY CODE (2018 EDITION).
NAME: KIM WOOTEN, PE
TITLE: ELECTRICAL ENGINEER

MECHANICAL EQUIPMENT SCHEDULE

| TAG | VOLTAGE | PHASE | LOAD | | | CONDUCTORS & CONDUIT | DISCONNECT | CIRCUIT PANEL NO. | REMARKS |
|-----------|---------|-------|------|----|------|----------------------|---------------|-------------------|---|
| | | | KW | HP | FLA | | | | |
| (E)UJH | 480 | 1 | 7.5 | | | MATCH EXISTING | SEE REMARKS | M3 62.64.66 | REUSE EXISTING DISCONNECT. OTHERWISE PROVIDE 30A/3P/NF1 DISCONNECT. SEE FLOOR PLAN FOR INFORMATION REGARDING PANEL-CIRCUIT. |
| AHU-1 | 208 | 1 | | | 4.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB | |
| AHU-01-01 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 1.3 | |
| AHU-01-02 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 5.7 | |
| AHU-01-03 | 208 | 1 | | | .63 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 9.11 | |
| AHU-01-04 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 13.15 | |
| AHU-01-05 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 17.19 | |
| AHU-01-06 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 21.23 | |
| AHU-01-07 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 25.27 | |
| AHU-01-08 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 29.31 | |
| AHU-01-09 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 33.35 | |
| AHU-01-10 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 37.39 | |
| AHU-01-11 | 208 | 1 | | | 2.94 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 2.4 | |
| AHU-01-12 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 6.8 | |
| AHU-01-13 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 10.12 | |
| AHU-01-14 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 14.16 | |
| AHU-01-15 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 18.20 | |
| AHU-01-16 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 22.24 | |
| AHU-01-17 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | MB 26.28 | |
| AHU-2 | 208 | 1 | | | 4.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | | SEE FLOOR PLAN FOR INFORMATION REGARDING PANEL-CIRCUIT. |
| AHU-11-01 | 208 | 1 | | | 2.94 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 1.3 | |
| AHU-11-02 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 5.7 | |
| AHU-11-03 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 9.11 | |
| AHU-11-04 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 13.15 | |
| AHU-11-05 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 17.19 | |
| AHU-11-06 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 21.23 | |
| AHU-11-07 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 25.27 | |
| AHU-11-08 | 208 | 1 | | | 4.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 29.31 | |
| AHU-11-09 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 33.35 | |
| AHU-11-10 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 37.39 | |
| AHU-11-11 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 41.43 | |
| AHU-11-12 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 45.47 | |
| AHU-11-13 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 49.51 | |
| AHU-12-01 | 208 | 1 | | | 7.7 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 53.55 | |
| AHU-12-02 | 208 | 1 | | | 7.7 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 57.59 | |
| AHU-13-01 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 61.63 | |
| AHU-13-02 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 65.67 | |
| AHU-13-03 | 208 | 1 | | | 4.38 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 69.71 | |
| AHU-13-04 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 73.75 | |
| AHU-13-05 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 77.79 | |
| AHU-13-06 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 81.83 | |
| AHU-13-07 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 85.87 | |
| AHU-13-08 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 89.91 | |
| AHU-13-09 | 208 | 1 | | | 2.94 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 93.95 | |
| AHU-13-10 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 97.99 | |
| AHU-13-11 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 102.03 | |
| AHU-13-12 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 106.07 | |
| AHU-13-13 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 110.11 | |
| AHU-13-14 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 114.15 | |
| AHU-13-15 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M1 118.19 | |
| AHU-21-01 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 1.3 | |
| AHU-21-02 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 5.7 | |
| AHU-21-03 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 9.11 | |
| AHU-21-04 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 13.15 | |
| AHU-21-05 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 17.19 | |
| AHU-21-06 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 21.23 | |
| AHU-21-07 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 25.27 | |
| AHU-21-08 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 29.31 | |
| AHU-21-09 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 33.35 | |
| AHU-21-10 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 37.39 | |
| AHU-21-11 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 41.43 | |
| AHU-21-12 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 45.47 | |
| AHU-21-13 | 208 | 1 | | | 2.4 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 49.51 | |
| AHU-22-01 | 208 | 3 | | | 4.6 | 3#12, 1#12G, 3/4" | 30A/3P/15AF/1 | M2 53.55,57 | |
| AHU-22-02 | 208 | 3 | | | 4.6 | 3#12, 1#12G, 3/4" | 30A/3P/15AF/1 | M2 57.59,61 | |
| AHU-22-03 | 208 | 1 | | | 4.38 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 61.63 | |
| AHU-22-04 | 208 | 1 | | | 4.25 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 65.67 | |
| AHU-23-01 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 69.71 | |
| AHU-23-02 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 73.75 | |
| AHU-23-03 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 77.79 | |
| AHU-23-04 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 81.83 | |
| AHU-23-05 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 85.87 | |
| AHU-23-06 | 208 | 1 | | | 2.13 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 89.91 | |
| AHU-23-07 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 93.95 | |
| AHU-23-08 | 208 | 1 | | | 1.75 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 97.99 | |
| AHU-23-09 | 208 | 1 | | | 7.7 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 102.03 | |
| AHU-23-10 | 208 | 1 | | | 4.38 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 106.07 | |
| AHU-24-01 | 208 | 1 | | | 4.25 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 110.11 | |
| AHU-24-02 | 208 | 1 | | | 7.7 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 114.15 | |
| AHU-24-03 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 118.19 | |
| AHU-24-04 | 208 | 1 | | | 2.88 | 2#12, 1#12, 3/4" | 30A/2P/15AF/1 | M2 122.24 | |
| AHU-24-05 | 208 | 1 | | | 2.88 | 2#12, | | | |

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST,
KINSTON, NC 28501

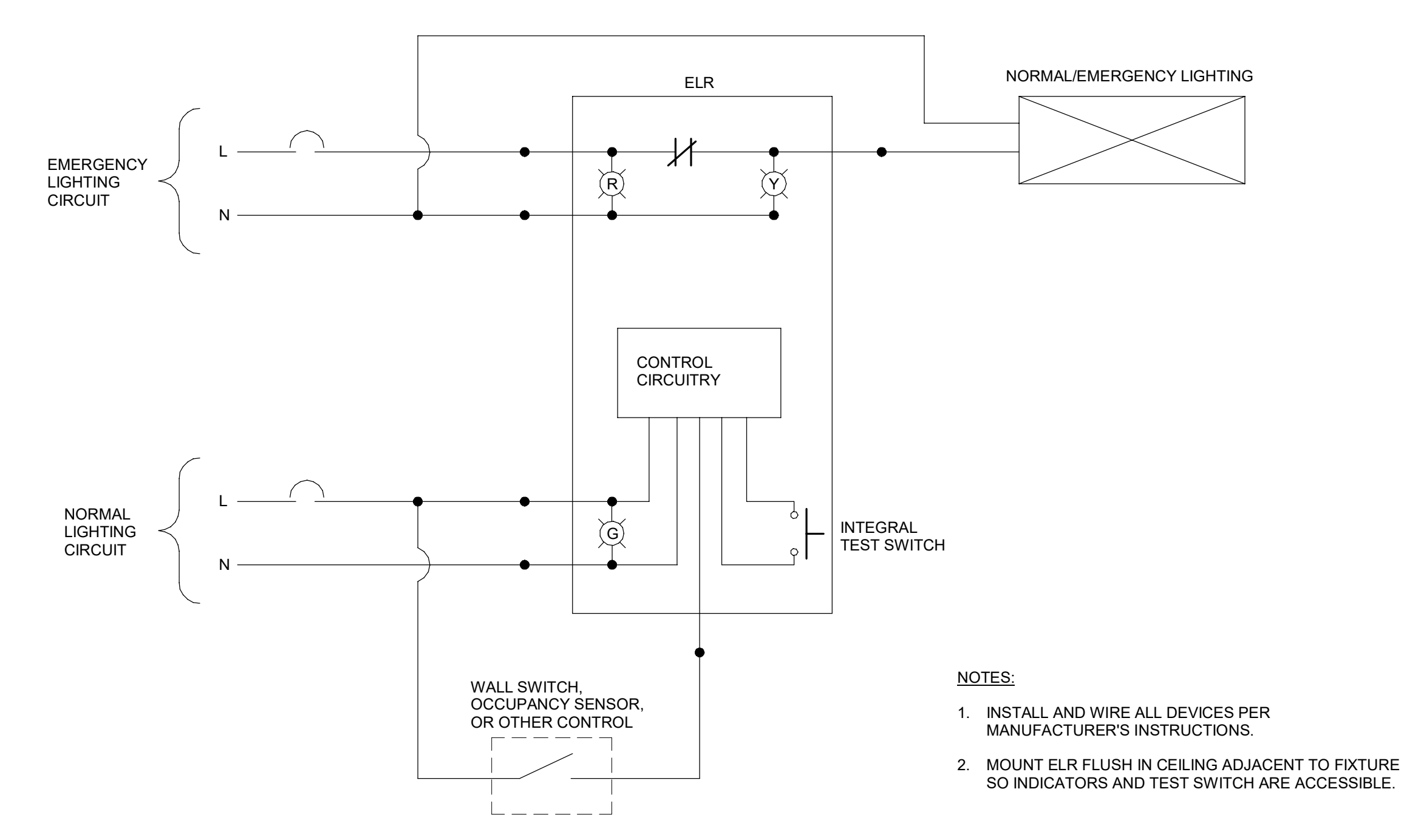
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DRAWING NAME
ELECTRICAL DETAILS

DRAWING NO.
E0.9

Drawn By: RHV Checked By: KCW



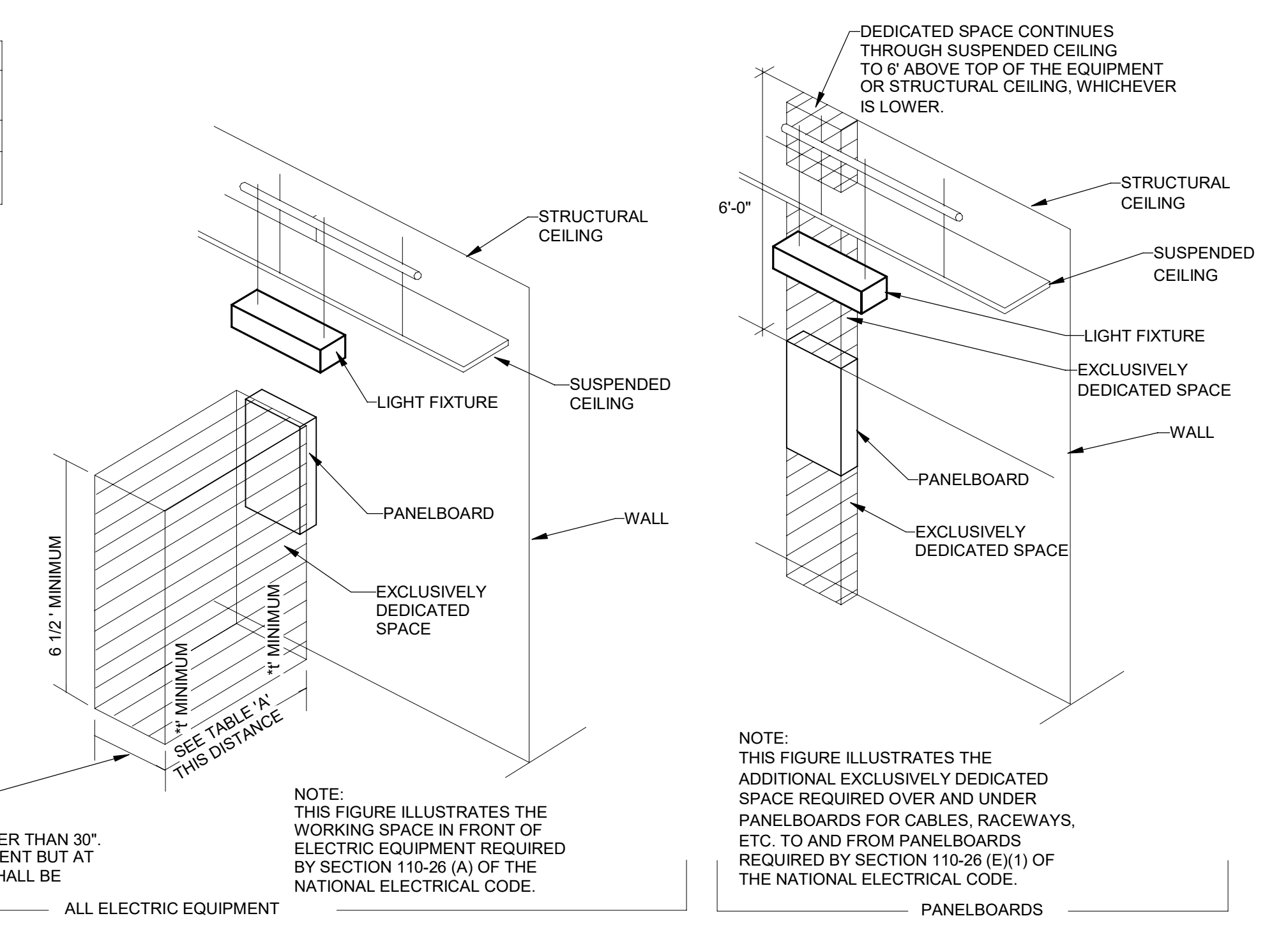
1 ELR WIRING SCHEMATIC - MANUAL SWITCH OR OCCUPANCY SENSOR
E0.9 NOT TO SCALE

| VOLTAGE TO GROUND, NOMINAL | CONDITION | MIN. CLEAR DISTANCE (FT) | | |
|----------------------------|-----------|--------------------------|-------|---|
| | | 1 | 2 | 3 |
| 0-150 | 3 | 3 | 3 | 3 |
| | | 3 | 3 1/2 | 4 |
| 151-600 | | | | |

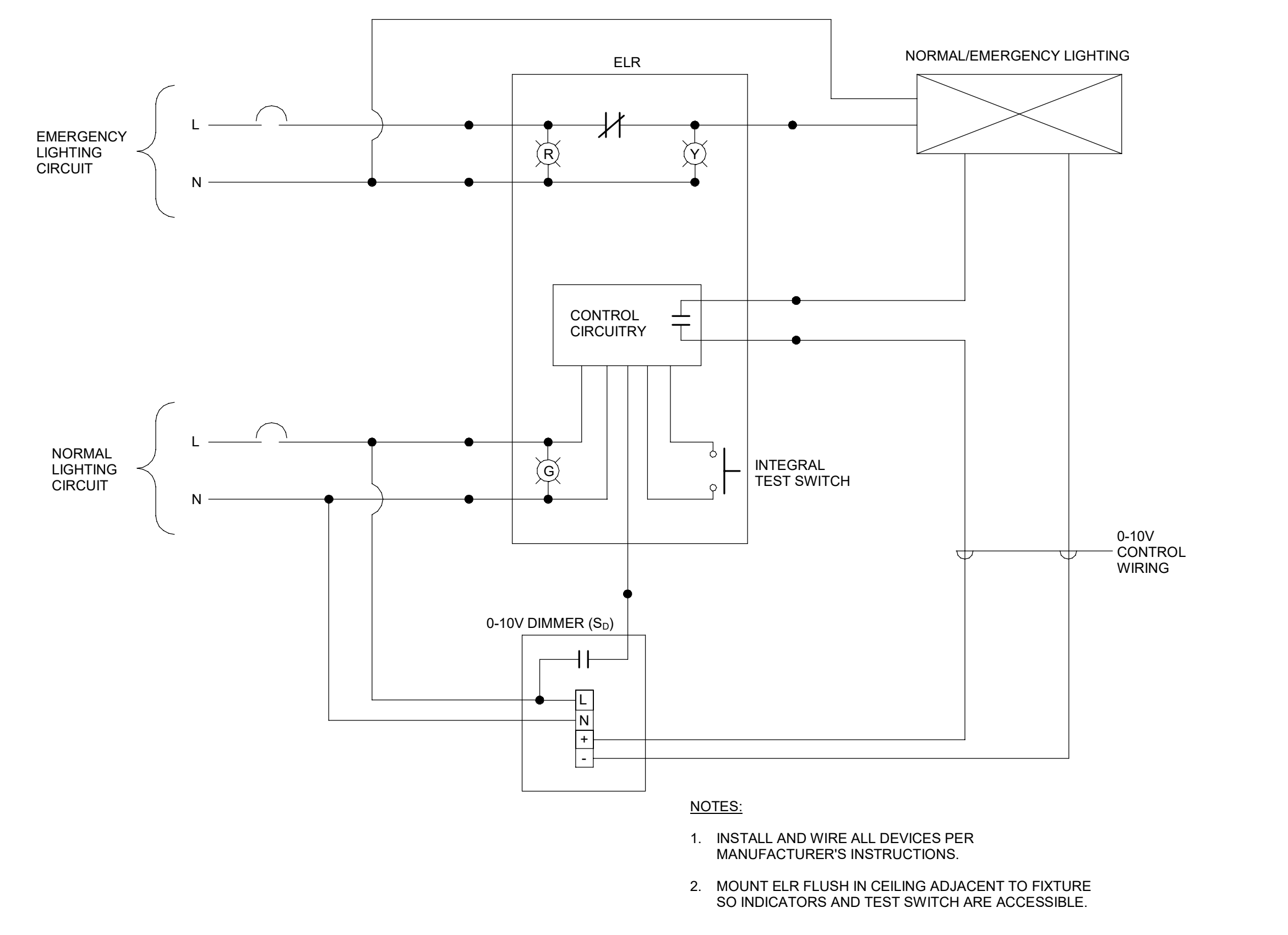
WHERE THE CONDITIONS ARE AS FOLLOWS:
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE: THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.

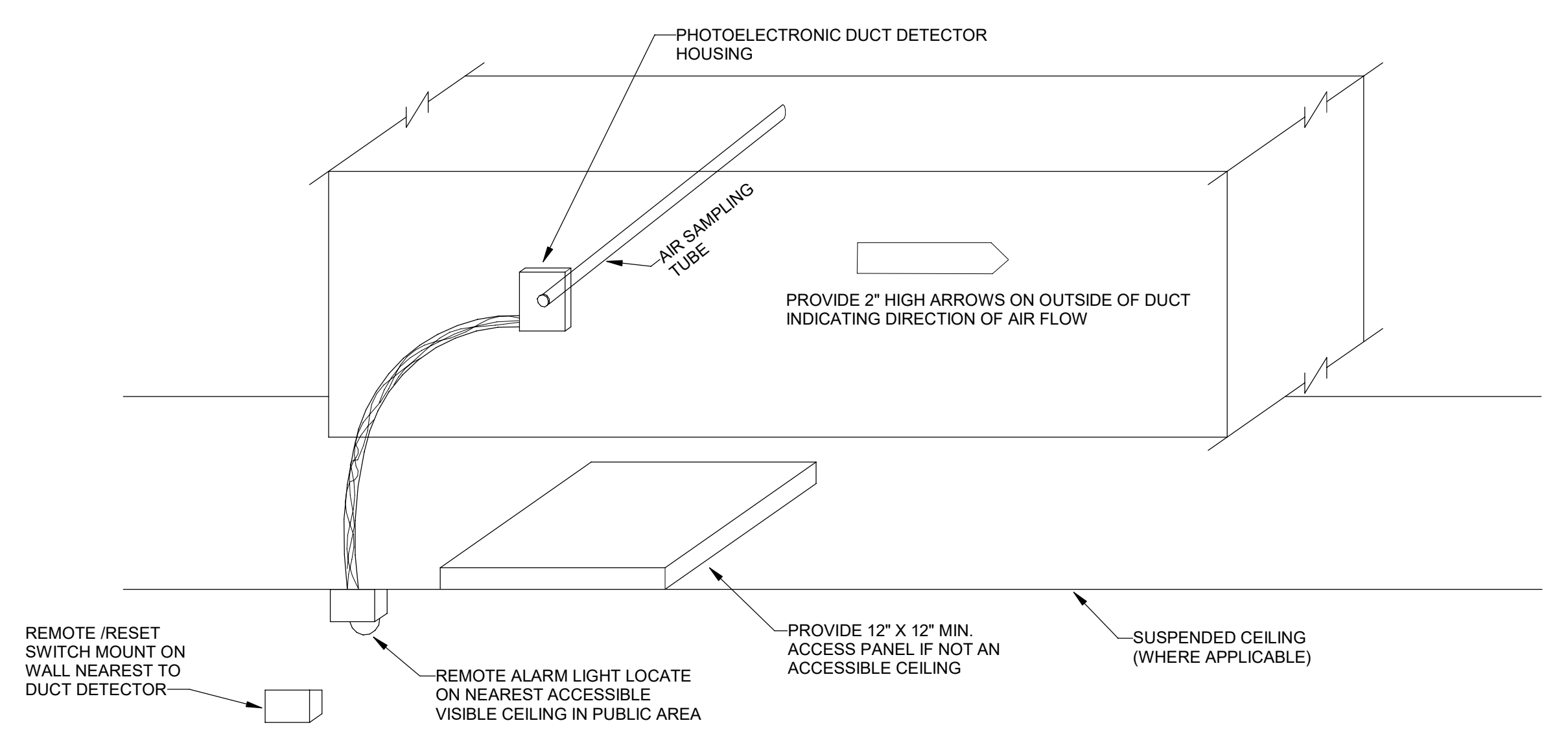
30" OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30". DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90 DEG.



2 DEDICATED WORKING SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT
E0.9 NOT TO SCALE



3 ELR WIRING SCHEMATIC - 0-10V DIMMING
E0.9 NOT TO SCALE



NOTES:

- A. LOCATE WHERE THE AIR LEAVES EACH SMOKE COMPARTMENT, OR IN THE DUCT SYSTEM BEFORE THE AIR ENTERS THE RETURN AIR SYSTEM COMMON TO MORE THAN ONE SMOKE COMPARTMENT.
- B. DETECTORS SHALL BE LISTED FOR THE PURPOSE FOR WHICH THEY ARE BEING USED.
- C. AIR DUCT DETECTORS SHALL BE INSTALLED IN SUCH A WAY AS TO OBTAIN A REPRESENTATIVE SAMPLE OF THE AIRSTREAM. INSTALL OUTSIDE THE DUCT WITH RIGIDLY MOUNTED SAMPLING TUBES PROTRUDING INTO THE DUCT.
- D. DETECTORS SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND SHALL BE ACCESSIBLE FOR CLEANING BY PROVIDING ACCESS DOORS OR CONTROL UNITS IN ACCORDANCE WITH NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
- E. THE LOCATION OF ALL DETECTORS IN AIR DUCT SYSTEMS SHALL BE PERMANENTLY AND CLEARLY IDENTIFIED AND RECORDED.
- F. DETECTORS MOUNTED OUTSIDE OF A DUCT THAT EMPLOYS SAMPLING TUBES FOR TRANSPORTING SMOKE FROM INSIDE THE DUCT TO THE DETECTOR SHALL BE DESIGNED AND INSTALLED TO ALLOW VERIFICATION OF AIRFLOW FROM THE DUCT TO THE DETECTOR.
- G. DETECTORS SHALL BE LISTED FOR OPERATION OVER THE COMPLETE RANGE OF AIR VELOCITIES, TEMPERATURE, AND HUMIDITY EXPECTED AT THE DETECTOR WHEN THE AIR HANDLING SYSTEM IS OPERATING.
- H. ALL PENETRATIONS OF A RETURN AIR DUCT IN THE VICINITY OF DETECTORS INSTALLED ON OR IN AN AIR DUCT SHALL BE SEALED TO PREVENT ENTRANCE OF OUTSIDE AIR AND POSSIBLE DILUTION OR REDIRECTION OF SMOKE WITHIN THE DUCT.
- I. THE DETECTORS SHALL BE PROVIDED WITH REMOTE ALARM OR SUPERVISORY INDICATION IN A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND THE OWNER.
- J. REMOTE ALARM OR SUPERVISORY INDICATORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION AND SHALL BE CLEARLY LABELED TO INDICATE BOTH THEIR FUNCTION AND THE AIR HANDLING UNIT(S) ASSOCIATED WITH EACH DETECTOR.

4 DUCT DETECTOR
E0.9 NOT TO SCALE



- GENERAL NOTES:**
- A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E08 FOR MORE INFORMATION.
 - B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 - C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

- PLAN NOTES:**
1. PROVIDE NEW PANEL 'MDP' AND RECONNECT EXISTING CIRCUITS. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 2. NEW LOCATION OF TRANSFORMER. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 3. PROVIDE NEW PANEL 'SDP-2'. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 4. REMOVE EXISTING CIRCUIT BREAKER FEEDING DEMOLISHED AIR HANDLER AND PROVIDE NEW 15A/2P CIRCUIT BREAKER. CONNECT NEW AHU TO NEW CIRCUIT BREAKER WITH NEW WIRING. REUSE CONDUIT IF ABLE.
 5. PROVIDE DOOR STOP TO PROTECT PANELBOARD BEHIND DOOR FROM DOOR IMPACT.
 6. RECONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION OF EXISTING EXHAUST FAN. REUSE CONDUIT IF ABLE.
 7. PROVIDE NEW GFI 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
 8. FUSED DISCONNECTS FEEDING PANEL 'SDP' AND PANEL 'SDP-2'. MOUNT ON RACK. SEE POWER RISER DIAGRAM FOR DISCONNECT SIZE.
 9. REUSE DEMOLISHED RECEPTACLE/DATA DEVICE LOCATION FOR ROUGH-IN OF NEW DEVICES.
 10. CONTROL POWER FOR BMS. COORDINATE LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR.
 11. REPLACE EXISTING RECEPTACLE IN ROOM WITH NEW 5-20R GFI RECEPTACLE. ONLY CONNECT NEW RECEPTACLE TO CIRCUIT INDICATED USING 2#12, 1#12G, 3/4" C. IF ADDITIONAL DEVICES EXIST ON PREVIOUS CIRCUIT, MAINTAIN EXISTING WIRING AND CONDUIT TO POWER ADDITIONAL EXISTING DEVICES.

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS

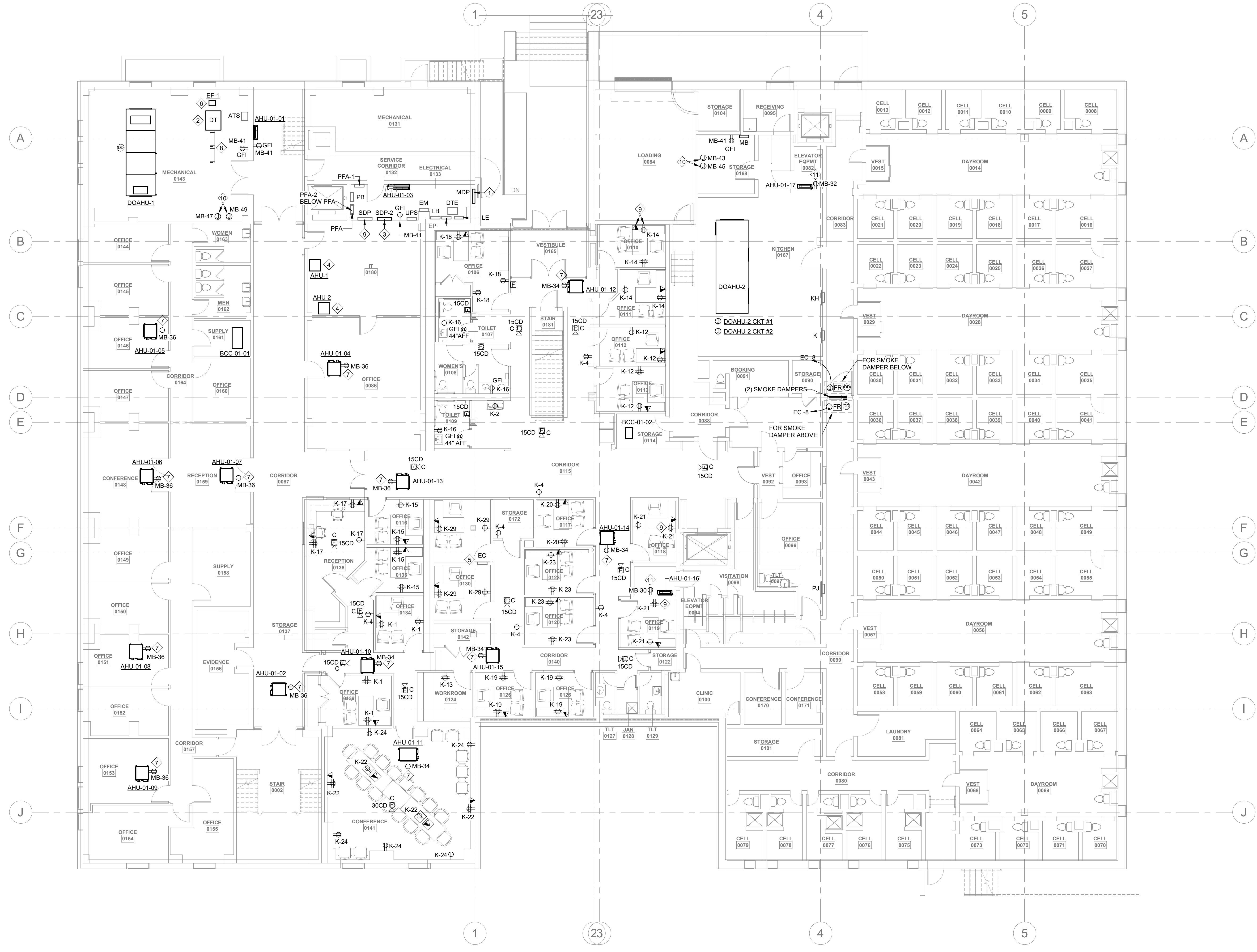
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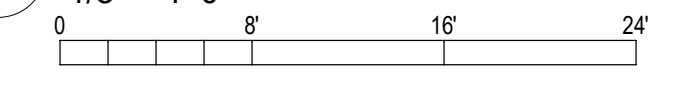
DRAWING NAME
ELECTRICAL BASEMENT PLAN - POWER

DRAWING NO.
E1.0

Drawn By: RHV Checked By: KCW



1 BASEMENT ELECTRICAL PLAN - POWER
 E1.0
 1/8" = 1'-0"

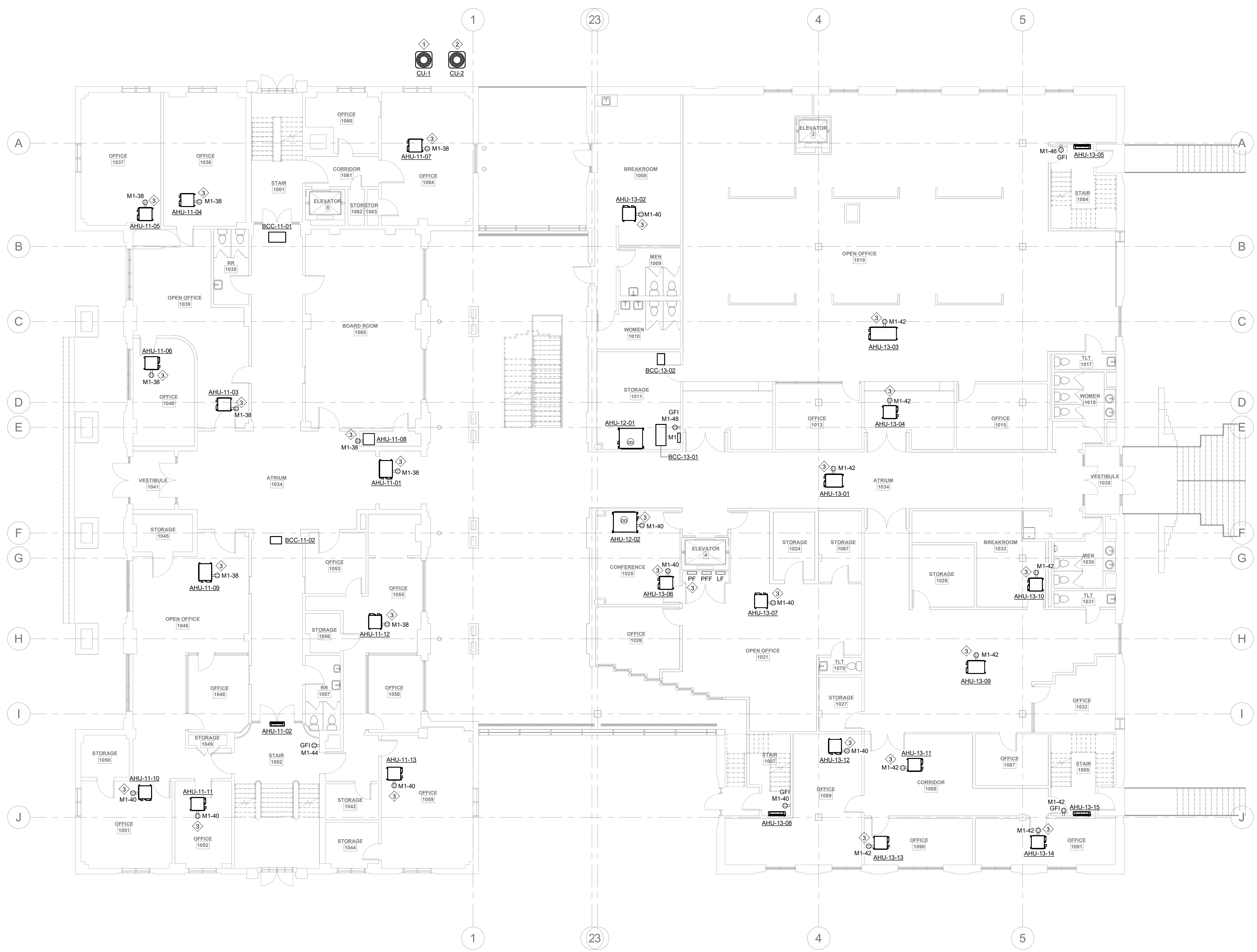




GENERAL NOTES:
 A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.8 FOR MORE INFORMATION.
 B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

PLAN NOTES:

- REMOVE EXISTING CIRCUIT BREAKER FEEDING DEMOLISHED CONDENSING UNIT AND PROVIDE NEW 30A/3P CIRCUIT BREAKER. CONNECT NEW CU-1 TO NEW CIRCUIT BREAKER WITH NEW WIRING. REUSE CONDUIT IF ABLE.
- REMOVE EXISTING CIRCUIT BREAKER FEEDING DEMOLISHED CONDENSING UNIT AND PROVIDE NEW 35A/3P CIRCUIT BREAKER. CONNECT NEW CU-2 TO NEW CIRCUIT BREAKER WITH NEW WIRING. REUSE CONDUIT IF ABLE.
- PROVIDE NEW GFI 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
- EXISTING PANEL TO BE FED FROM NEW SOURCE. REFER TO RISER DIAGRAMS.



1 1ST FLOOR ELECTRICAL PLAN
 E1.1
 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

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DRAWING NAME
ELECTRICAL 1ST FLOOR PLAN

DRAWING NO.
E1.1

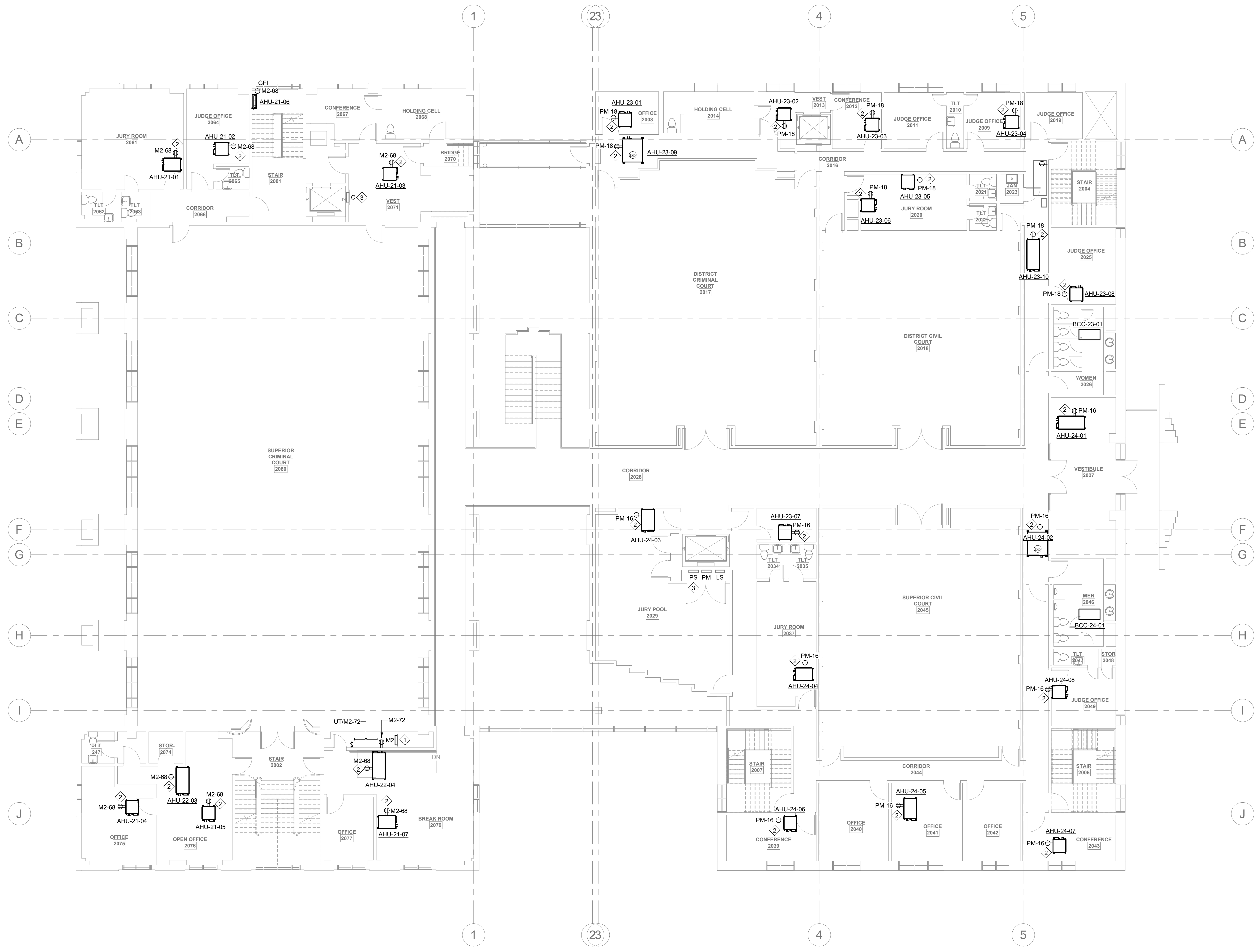
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- GENERAL NOTES:**
- REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.8 FOR MORE INFORMATION.
 - PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 - COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

- PLAN NOTES:**
- PROVIDE 3/4" U-CHANNEL SUPPORTS FROM FLOOR TO STRUCTURE ABOVE TO SUPPORT NEW PANEL MZ.
 - PROVIDE NEW GF1 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
 - EXISTING PANEL TO BE FED FROM NEW SOURCE. REFER TO RISER DIAGRAMS.



1 2ND FLOOR ELECTRICAL PLAN
 E1.2
 1/8" = 1'-0"
 0 8 16 24'

PROJECT NUMBER: 22175-03
 CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
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DRAWING NAME
ELECTRICAL 2ND FLOOR PLAN

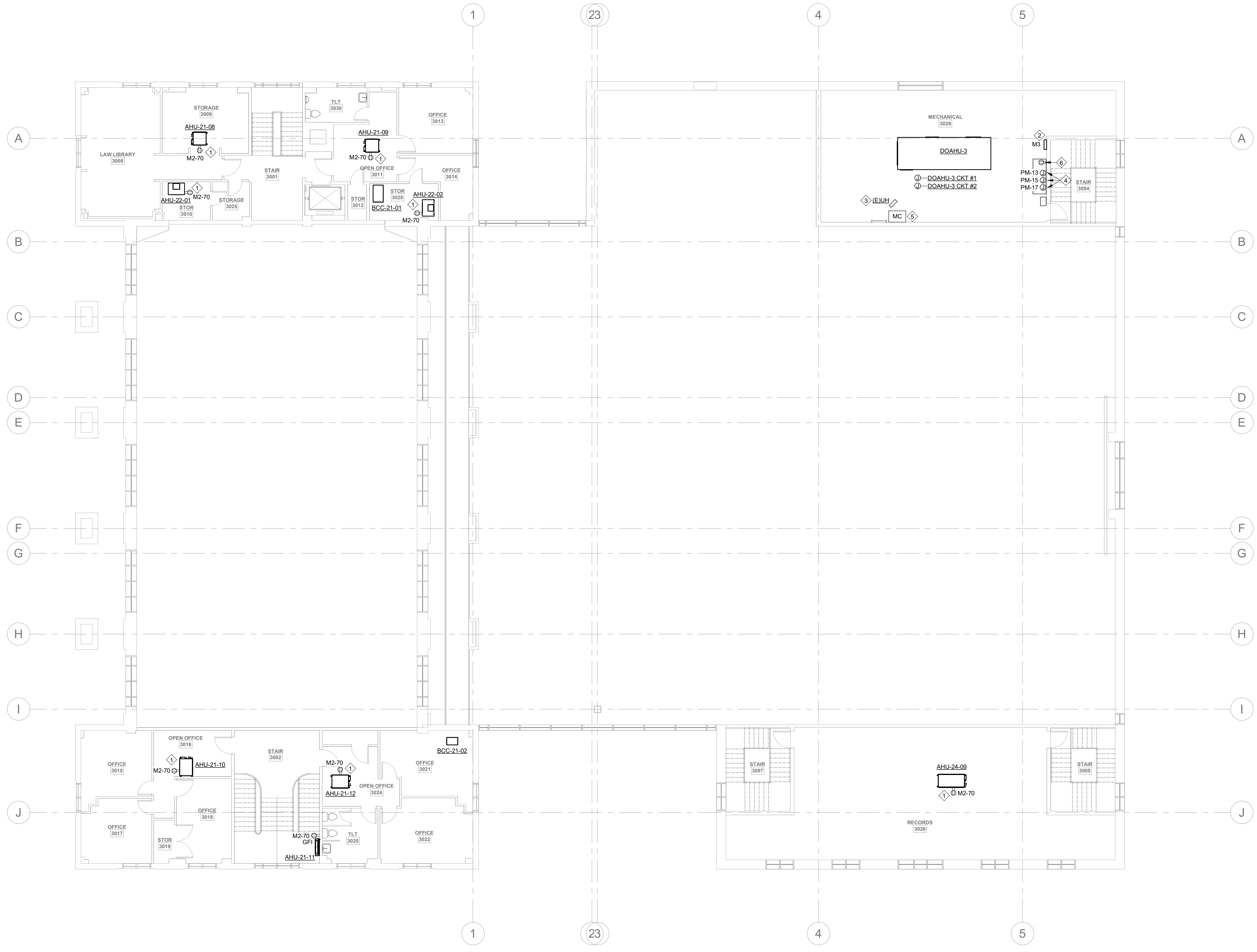
DRAWING NO.
E1.2
 Drawn By: RHV Checked By: KCW



GENERAL NOTES:
 A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.8 FOR MORE INFORMATION.
 B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

PLAN NOTES:

1. PROVIDE NEW GFI 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
2. REWORK OR RELOCATE EXISTING EQUIPMENT TO ACCOMMODATE NEW PANEL 'M3'. COORDINATE WITH OTHER TRADES.
3. REMOVE CONNECTION BETWEEN EXISTING UNIT HEATER AND EXISTING PANEL 'MC'. REMOVE ALL ASSOCIATED WIRING AND ACCESSIBLE CONDUIT. RECONNECT EQUIPMENT TO NEW PANEL 'M3'. MATCH EXISTING CONDUCTOR AND CONDUIT SIZE. SEE PANEL SCHEDULES FOR MORE INFORMATION.
4. CONTROL POWER FOR BMS. COORDINATE LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR.
5. EXISTING PANEL 'MC' TO REMAIN UNTIL ALL EXISTING LOADS HAVE BEEN REMOVED. ONCE ALL EXISTING LOADS HAVE BEEN REMOVED, PANEL 'MC' SHALL BE DEMOLISHED.
6. REPLACE EXISTING RECEPTACLE WITH NEW 5-20R GFI RECEPTACLE. RECONNECT TO EXISTING CIRCUIT.



1 3RD FLOOR AND MEZZANINE ELECTRICAL PLAN
 E1.3 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT

PROJECT INFORMATION:

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 130 S QUEEN ST,
 KINSTON, NC 28501

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DRAWING NAME
ELECTRICAL 3RD FLOOR AND MEZZANINE PLAN

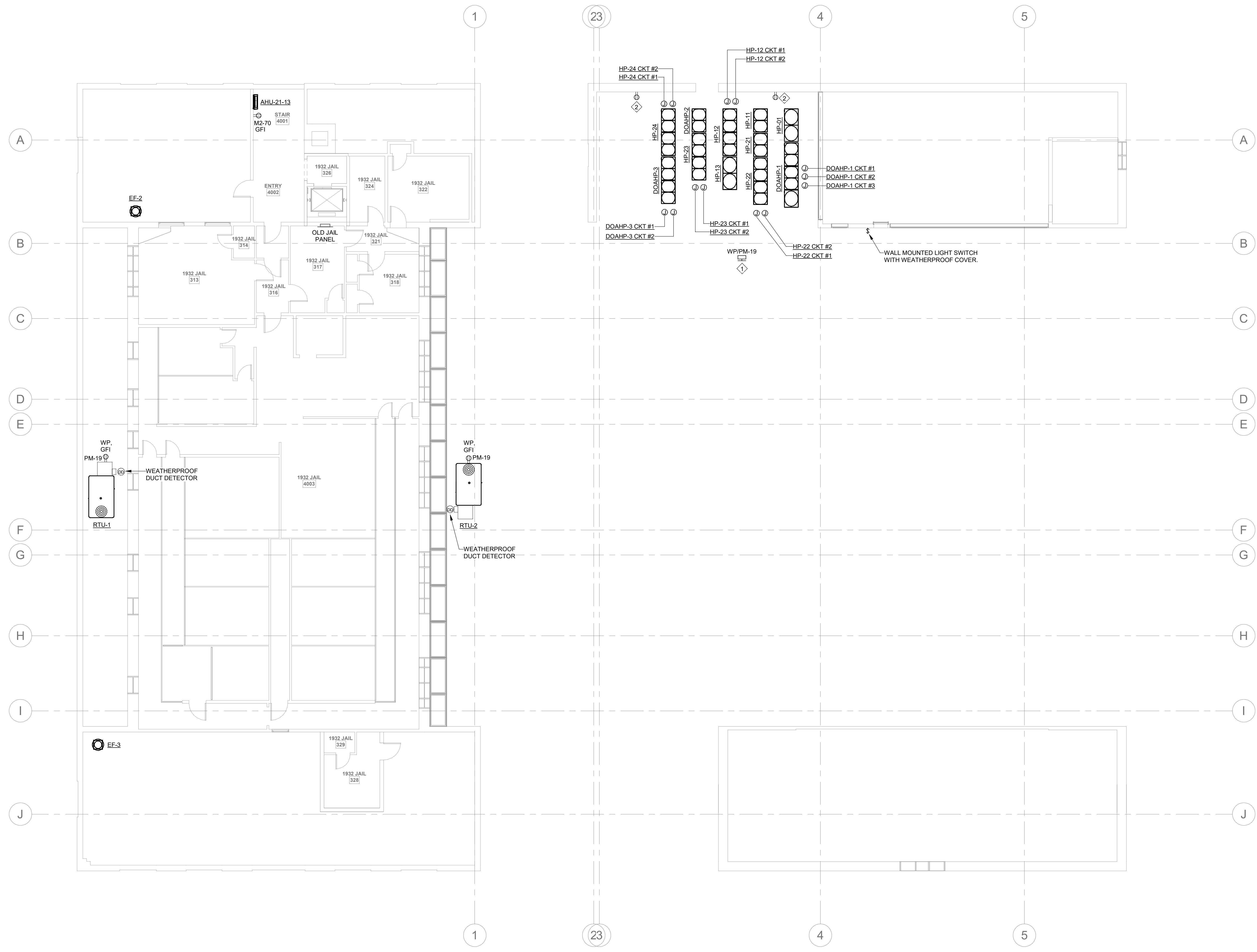
DRAWING NO.
E1.3
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- GENERAL NOTES:**
- A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.8 FOR MORE INFORMATION.
 - B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 - C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

- PLAN NOTES:**
1. POST MOUNTED LIGHT FIXTURE. MOUNT AT 7 AFF.
 2. REPLACE EXISTING RECEPTACLE WITH NEW GFI 5-20R WEATHERPROOF RECEPTACLE. RECONNECT TO EXISTING CIRCUIT.



PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

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DRAWING NAME
ELECTRICAL 4TH FLOOR AND ROOF PLAN

DRAWING NO.
E1.4
 Drawn By: RHV Checked By: KCW

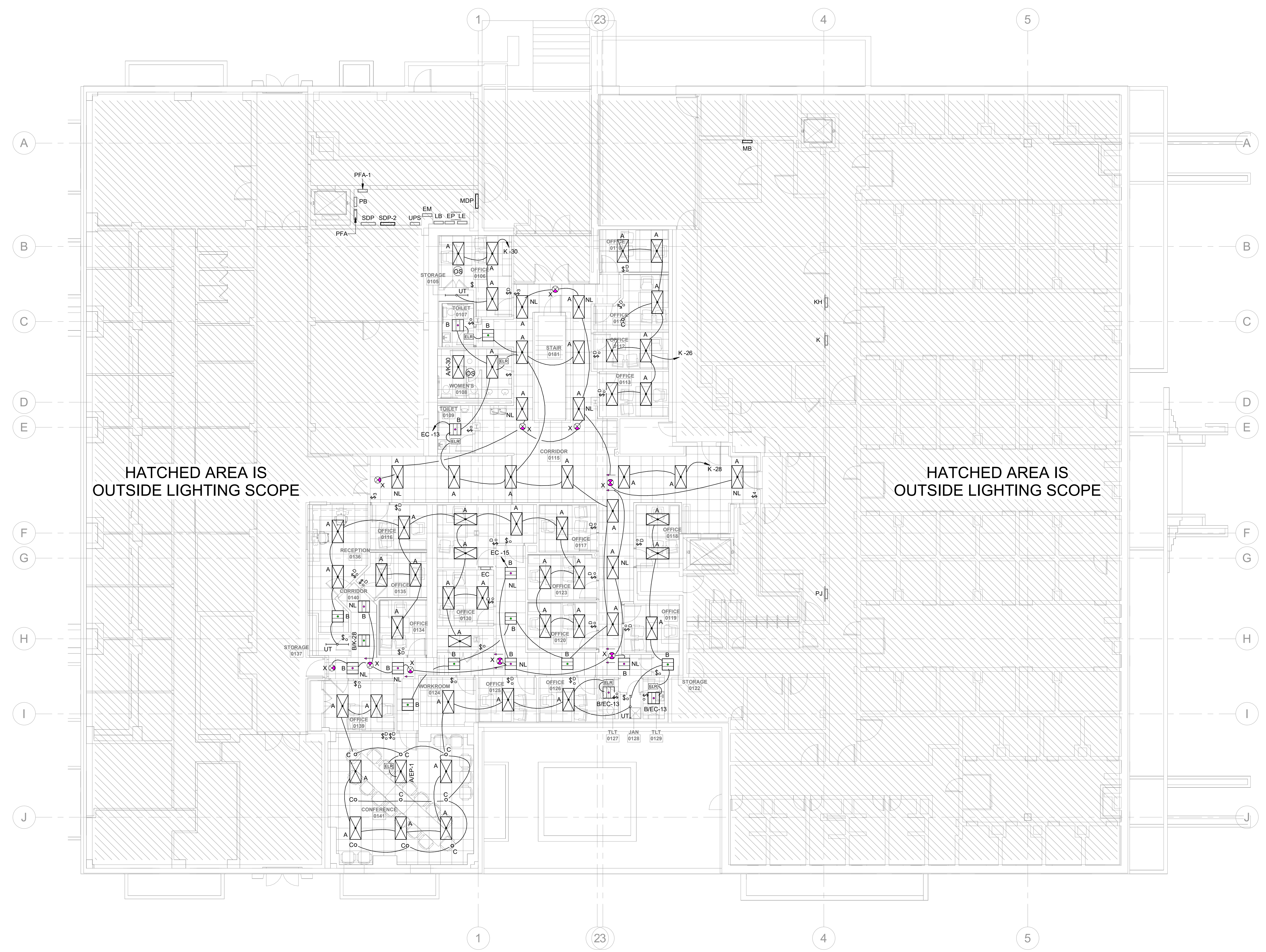
1 4TH FLOOR ELECTRICAL PLAN
 E1.4
 1/8" = 1'-0"



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- GENERAL NOTES:**
- A. EMERGENCY LIGHTS/EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT INDICATED.
 - B. REFER TO SHEET E0.8 FOR LIGHTING FIXTURE SCHEDULE.
 - C. DIMMED LIGHTING CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING OF NEUTRALS IS NOT ALLOWED ON DIMMED CIRCUITS.
 - D. GENERATOR-SUPPLIED EMERGENCY EGRESS LIGHTING SHALL BE PROVIDED BY USING A STANDARD LED FIXTURE EQUIPPED WITH AN EMERGENCY LOAD RELAY. THE DEVICE SHALL BE CAPABLE OF BYPASSING THE WALL SWITCH OR OTHER LIGHTING CONTROL AND BREAKING THE 0-10V SIGNAL FOR FULL OUTPUT WHEN THE EMERGENCY GENERATOR POWERS THE LIGHTS.

- PLAN NOTES:**
- 1. EMERGENCY LOAD RELAY, UL 924 LISTED, CONSISTING OF RELAY SWITCHING CIRCUITRY AND FUSING CONTAINED IN ENCLOSURE FLUSH MOUNTED IN CEILING ADJACENT TO FIXTURE SO THAT INDICATOR LIGHTS ARE VISIBLE. EMERGENCY LIGHT EPC-1-D-E OR APPROVED EQUAL BY FUNCTIONAL DEVICES OR BODINE. SEE DETAILS ON SHEET E0.9



1 BASEMENT ELECTRICAL PLAN - LIGHTING
 E2.0
 1/8" = 1'-0"
 0 8 16 24'

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
 COURTHOUSE HVAC &
 BASEMENT
 RENOVATION
 PROJECT**
 130 S QUEEN ST,
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DRAWING NAME
**ELECTRICAL
 BASEMENT PLAN -
 LIGHTING**

DRAWING NO.
E2.0

Drawn By: RHV Checked By: KCW

| HVAC SYMBOLS AND CONVENTIONS | |
|------------------------------|---|
| SYMBOL | DESCRIPTION |
| | TURNING VANES |
| | VOLUME DAMPER |
| | FIRE DAMPER |
| | FIRE/SMOKE DAMPER |
| | SMOKE DETECTOR (BY EC) |
| | MOTOR OPERATED DAMPER |
| | DUCTWORK TEMPERATURE SENSOR |
| | DUCTWORK HUMIDITY SENSOR |
| | DUCTWORK STATIC PRESSURE SENSOR |
| | SUPPLY DUCT |
| | RETURN DUCT |
| | EXHAUST DUCT |
| | FLEX DUCT |
| | HUMIDISTAT/HUMIDITY SENSOR |
| | THERMOSTAT |
| | SPACE TEMPERATURE SENSOR |
| | CARBON DIOXIDE SENSOR |
| | UNDERCUT DOOR |
| | AIRFLOW DIRECTION |
| | AIRFLOW DIRECTION |
| | PIPING DIFFERENTIAL PRESSURE SENSOR |
| | MANUAL BALANCING VALVE |
| | BACKFLOW PREVENTER |
| | CHECK VALVE |
| | CONTROL VALVE (2-WAY) |
| | CONTROL VALVE (3-WAY) |
| | PRESSURE REDUCING VALVE |
| | REMOVE TO POINT AND CAP |
| | REMOVE TO POINT FOR RECONNECTION |
| | SHUT OFF VALVE (REFER TO PLANS AND SPECIFICATIONS FOR TYPE) |
| | STEAM TRAP |
| | Y-STRAINER WITH BLOW DOWN AND VALVE |
| | UNION |
| | PIPE BRANCH TAKE-OFF FROM BOTTOM |
| | PIPE BRANCH TAKE-OFF FROM TOP |
| | PIPE DROP |
| | PIPE RISE |
| | FLANGED CONNECTION |
| | BOTTOM BLOWDOWN PIPING |
| | BLOWDOWN PIPING |
| | AC CONDENSATE DRAIN PIPING |
| | CHEMICAL FEED PIPING |
| | CHILLED GLYCOL RETURN PIPING |
| | CHILLED GLYCOL SUPPLY PIPING |
| | CONDENSER WATER RETURN PIPING |
| | CONDENSER WATER SUPPLY PIPING |
| | CHILLED WATER RETURN PIPING |

| HVAC SYMBOLS AND CONVENTIONS | |
|------------------------------|--|
| SYMBOL | DESCRIPTION |
| | CHILLED WATER SUPPLY PIPING |
| | DRAIN PIPING |
| | FUEL OIL RETURN PIPING |
| | FUEL OIL SUPPLY PIPING |
| | FUEL OIL VENT PIPING |
| | FEEDWATER PIPING |
| | FEEDWATER RECIRC PIPING |
| | CONDENSER GLYCOL RETURN PIPING |
| | CONDENSER GLYCOL SUPPLY PIPING |
| | HEATING & CHILLED WATER RETURN PIPING |
| | HEATING & CHILLED WATER SUPPLY PIPING |
| | HIGH PRESSURE CONDENSATE RETURN PIPING |
| | HIGH PRESSURE STEAM PIPING |
| | HEATING WATER RETURN PIPING |
| | HEATING WATER SUPPLY PIPING |
| | LOW PRESSURE CONDENSATE RETURN PIPING |
| | LOW PRESSURE STEAM PIPING |
| | MEDIUM PRESSURE CONDENSATE RETURN PIPING |
| | MEDIUM PRESSURE STEAM PIPING |
| | PUMPED AC CONDENSATE DRAIN PIPING |
| | PRIMARY CHILLED WATER RETURN PIPING |
| | PRIMARY CHILLED WATER SUPPLY PIPING |
| | PRIMARY HEATING WATER RETURN PIPING |
| | PRIMARY HEATING WATER SUPPLY PIPING |
| | PUMPED STEAM CONDENSATE |
| | RADIANT FLOOR RETURN PIPING |
| | RADIANT FLOOR SUPPLY PIPING |
| | REFRIGERANT GAS PIPING |
| | REFRIGERANT HOT GAS BYPASS PIPING |
| | RADIATION HEATING WATER RETURN PIPING |
| | RADIATION HEATING WATER SUPPLY PIPING |
| | REFRIGERANT LIQUID PIPING |
| | REFRIGERANT SUCTION PIPING |
| | REFRIGERANT VENT PIPING |
| | SURFACE BLOWDOWN PIPING |
| | SAFETY ESCAPE VALVE PIPING (STEAM) |
| | SECONDARY CHILLED WATER RETURN PIPING |
| | SECONDARY CHILLED WATER SUPPLY PIPING |
| | SECONDARY HEATING WATER RETURN PIPING |
| | SECONDARY HEATING WATER SUPPLY PIPING |
| | SNOW MELT RETURN PIPING |
| | SNOW MELT SUPPLY PIPING |
| | SOFTENED WATER PIPING |
| | STEAM VENT PIPING |

| EQUIPMENT TAGGING LEGEND | |
|--------------------------|--|
| EQUIPMENT DESIGNATION | TAGGING DESCRIPTION |
| AIR DEVICES - S,R,E,T | EQUIPMENT DESIGNATION TYPE CFM EQUIPMENT DESIGNATION - AHU, AC, GF, RTU, VAV, EDH, EIH, GUH, PTAC |
| VFD | SERVICING EQUIPMENT MARK SPECIFIC COMPONENT DESIGNATION |

| AIR SYSTEM SPECIFIC ABBREVIATIONS | | | |
|-----------------------------------|----------------------------|-------|------------------------------|
| AC | AIR CONDITIONING | HV | HEATING AND VENTILATING UNIT |
| ACC | AIR COOLED CONDENSER | HI | INTAKE HOOD |
| ACCU | AIR COOLED CONDENSING UNIT | LAT | LEAVING AIR TEMPERATURE |
| ACD | AUTOMATIC CONTROL DAMPER | LUVR | LOUVER |
| ACU | AIR CONDITIONING UNIT | LUVDO | LOUVERED DOOR |
| AHU | AIR HANDLING UNIT | OA | OUTSIDE AIR |
| ALD | ACOUSTICALLY LINED DUCT | OAI | OUTSIDE AIR INTAKE |
| ATD | AIR TERMINAL DEVICE | OB | OPPOSED BLADE DAMPER |
| BDD | BACKDRAFT DAMPER | OED | OPENED END DUCT |
| CC | COOLING COIL | (R) | RELOCATED |
| CD | CEILING DIFFUSER | RA | RETURN AIR |
| CFM | CUBIC FEET PER MINUTE | RD | REFRIGERANT DISCHARGE |
| CG | CEILING GRILLE | RF | RETURN FAN |
| DIFF | DIFFUSER | RG | RETURN GRILLE |
| DX | DIRECT EXPANSION | RL | REFRIGERANT LIQUID |
| (E) | EXISTING | RUF | RELIEF |
| EDH | ELECTRIC DUCT HEATER | RR | RETURN REGISTER |
| EF | EXHAUST FAN | RS | REFRIGERANT SUCTION |
| EG | EXHAUST GRILLE | RTU | ROOFTOP UNIT |
| ER | EXHAUST REGISTER | SA | SUPPLY AIR |
| ERHC | ELECTRIC REHEAT COIL | SD | SMOKE DAMPER |
| ESP | EXTERNAL STATIC PRESSURE | SDT | SMOKE DETECTOR |
| ELH | ELECTRIC UNIT HEATER | SF | SUPPLY FAN |
| F | FAN | SG | SUPPLY GRILLE |
| FA | FREE AREA | SGD | SLIDE GATE DAMPER |
| FC | FORWARD CURVE | SM | SHEET METAL |
| FCU | FAN COIL UNIT | SP | STATIC PRESSURE |
| FD | FIRE DAMPER (WACCESS DOOR) | SR | SUPPLY REGISTER |
| FLTR | FILTER | TE | TOILET EXHAUST |
| FO | FLAT OVAL | TF | TRANSFER FAN |
| FPI | FINS PER INCH | TG | TRANSFER GRILLE |
| FSD | FIRE/SMOKE DAMPER | TR | TRANSFER |
| GE | GAS DUCT HEATER | TSP | TOTAL STATIC PRESSURE |
| GF | GENERAL EXHAUST | UC | UNDERCUT DOOR |
| GH | GRAVITY HOOD | VAV | VARIABLE AIR VOLUME |
| GUH | GAS UNIT HEATER | VD | VOLUME DAMPER |
| HC | HEATING COIL | WMS | WIRE MESH SCREEN |

- ### GENERAL MECHANICAL NOTES
- WORK SHALL CONFORM WITH TO ALL CURRENT CODES AND AUTHORITY HAVING JURISDICTION.
 - THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY BREAKDOWN OCCURRING IN THE FIRST YEAR SHALL BE AT NO EXPENSE TO THE OWNER. ALL REFRIGERATION COMPRESSORS SHALL HAVE A 5 YEAR (PARTS ONLY) WARRANTY, AND ALL NATURAL GAS HEAT EXCHANGERS SHALL HAVE A 10 YEAR (PARTS ONLY) WARRANTY.
 - DRAWINGS ARE SCHEMATIC, NOT ALL RISES AND DROPS ARE SHOWN. TRADES ARE TO COORDINATE THEIR WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS. GENERALLY, DUCTWORK SHALL BE KEPT AS HIGH AS POSSIBLE.
 - CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR VOLTAGES SHOWN THEREIN.
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD.
 - CONTRACTOR SHALL KEEP A SET OF MARKED UP PRINTS WITH ANY FIELD CHANGES MADE DURING CONSTRUCTION TO CREATE AN "AS-BUILT" SET OF PRINTS TO BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
 - PROVIDE ACCESS PANELS IN CEILINGS AND WALLS TO ALLOW ACCESS TO VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. MINIMUM ACCESS SIZE SHALL BE 12"X12", UNLESS LIMITED BY PHYSICAL CONSTRAINTS.
 - MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ROOFTOP UNITS SHALL BE FACTORY INSTALLED WITH SMOKE DETECTORS LOCATED IN THE RETURN SECTIONS FOR ALL UNITS. SMOKE DETECTORS SHALL BE WIRED TO THE ALARM PANEL BY THE ELECTRICAL CONTRACTOR. UNITS SHALL SHUT DOWN UPON ACTIVATION.
 - OUTSIDE AIR INTAKES FOR AIR CONDITIONING UNITS SHALL BE A MINIMUM OF 10 FEET FROM EXHAUST FANS, EXHAUST OPENINGS AND PLUMBING VENTS.
 - ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
 - ALL SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL FOR A PRESSURE RATING OF (-) 2" WG FOR RETURN AND (+) 2" WG FOR SUPPLY DUCTWORK. ALL EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA AND ASHRAE STANDARDS. EXHAUST DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL FOR A PRESSURE RATING OF 1" WG IN EXCESS OF THE SYSTEM FAN TOTAL STATIC PRESSURE RATING AT DESIGN FLOW RATE, UNLESS NOTED OTHERWISE.
 - SUPPORT DUCTWORK FROM BUILDING STRUCTURE IN ACCORDANCE WITH SMACNA STANDARDS.
 - ANY ADDITIONAL/SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT DUCTWORK OR EQUIPMENT FROM MAIN STRUCTURE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
 - DUCTWORK ELBOWS SHALL BE RADIUS ELBOWS WHERE PRACTICAL. RADIUS DUCTWORK ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DUCT WIDTH (OR DIAMETER) UNLESS NOTED OTHERWISE.
 - ALL MITERED ELBOWS (RECTANGULAR AND ROUND) SHALL HAVE SINGLE THICKNESS TURNING VANES INSTALLED UNLESS NOTED OTHERWISE ON DRAWINGS.
 - SECURELY SEAL ALL JOINTS LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS OR GASKETS OR MASTICS, MESH AND MASTIC SEALING SYSTEMS OR TAPES, TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B AND INSTALLED IN COORDINANCE OF SMACNA CLASS B.
 - DUCT CONNECTIONS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT SHALL BE MADE USING MECHANICAL FASTENERS WITH SEALS, MASTICS OR GASKETS.
 - SUPPLY AIR AND OUTSIDE AIR DUCTWORK INSIDE THE BUILDING ENVELOPE SHALL BE INSULATED WITH A MINIMUM 1" THICK (INSTALLED) 24 LB. PER CUBIC FOOT, FIBERGLASS DUCTWRAP WITH FOIL FACED VAPOR BARRIER AND AN INSTALLED THERMAL RESISTANCE OF R-2. EXHAUST DUCTWORK WITHIN 10 FEET OF THE OUTSIDE OPENING OR UP TO THE BACKDRAFT DAMPER SHALL HAVE SIMILAR INSULATION. ALTERNATE INSULATION FOR RECTANGULAR SUPPLY AND RETURN DUCT SHALL BE AN ANTIMICROBIAL AGENT WITH A MINIMUM OF R-2 AND 1" THICK. DUCT LINER SHALL BE COATED AND CONTAIN AN ANTIMICROBIAL AGENT WITHIN THE DUCT LINING ITSELF. INCREASE DUCT SHEET METAL SIZE AS REQUIRED TO MEET INSIDE CLEAR DIMENSIONS GIVEN ON DRAWINGS. INSULATION FOR DUCTS IN UNCONDITIONED ATTICS OR OTHER LOCATIONS OUTSIDE OF THE BUILDING ENVELOPE SHALL EXCEED ENERGY CODE REQUIREMENTS.
 - ALL DUCT INSULATION SHALL MEET THE MINIMUM REQUIREMENTS OF U.L. 181 FOR FLAME SPREAD AND SMOKE DEVELOPMENT, AND SHALL BE U.L. LISTED.
 - TRANSFER DUCTS SHALL BE INTERNALLY LINED TO AID IN CANCELING SMOKE TRANSFER.
 - EXHAUST DUCTWORK SHALL BE INSULATED UNLESS NOTED OTHERWISE.
 - COORDINATE LOCATIONS OF GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS SHOWN ARE APPROXIMATE, ADJUST LOCATIONS IN THE FIELD AS REQUIRED BY CONSTRUCTION CONSTRAINTS.
 - PROVIDE EACH SUPPLY AIR OUTLET OR DIFFUSER WITH ITS OWN BALANCING DEVICE. DEVICES CAN BE LOCATED IN DUCTWORK OR SUPPLY AIR DEVICE ITSELF.
 - ALL MANUAL BALANCING DAMPERS SHALL HAVE FRAME AND BEARINGS, A CONTINUOUS SHAFT, AND A LOCKING QUADRANT WITH THREAD SCREW.
 - PROVIDE FIRE DAMPERS WHERE DUCTS PENETRATE FIRE BARRIERS OR OTHER RATED ASSEMBLIES AS REQUIRED BY THE BUILDING CODE. PROVIDE SMOKE DAMPER OR FIRE/SMOKE DAMPER WHERE DUCTS PENETRATE SMOKE BARRIERS AS REQUIRED BY THE BUILDING CODE. CONTRACTOR IS RESPONSIBLE OF FIRE DAMPER OR FIRE/SMOKE DAMPER AT RATED ASSEMBLIES NOTED ON ARCHITECTURAL OR LIFE SAFETY DRAWING, EVEN IF NOT NOTED ON MECHANICAL PLANS.
 - PROVIDE FIRE STOPPING AS REQUIRED BY THE BUILDING CODE AROUND PIPES THAT PENETRATE RATED ASSEMBLIES AND AROUND DUCTS THAT ARE NOT PROTECTED WITH FIRE DAMPERS.
 - ALL CONDENSATE DRAIN PIPING SHALL BE TYPE L HARD DRAWN COPPER, ASTM B-88, WITH TYPE DWV FITTINGS, ASME B16.25, OR SCHEDULE 40 PVC, ASTM D1785, WITH TYPE DWV FITTINGS, ASTM D2672. COPPER DRAIN PIPE AND FITTINGS SHALL BE JOINED USING 95-5 SILVER SOLDER, AND PVC PIPE AND FITTINGS SHALL BE JOINED USING SOLVENT CEMENT. PROVIDE TRAP WITH CLEANOUT AND UNIONS. SLOPE CONDENSATE DRAIN LINES A MINIMUM OF 1/8" PER FOOT AWAY FROM THE MECHANICAL EQUIPMENT.
 - FLEXIBLE DUCTWORK SHALL BE CLASSIFIED UNDER UL 181. PROVIDE A MINIMUM OF 3 FEET IN LENGTH AND A MAXIMUM OF 10 FEET IN LENGTH, SUPPORTED WITH 3" GALVANIZED SHEET METAL STRAPS AT 4 FEET CENTERS (MAX). FLEXIBLE DUCT RUNOUTS SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND INSULATED WITH 1-1/2" THICK FIBERGLASS (WITH A 6.0 R-VALUE MINIMUM) COVERED WITH FLAMEPROOF VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER FILM LAMINATED TO GLASS MESH. DUCT SHALL BE ATCO'S UPC #036 VALUFLEX CLASS 1 AIR DUCT OR EQUAL. CONNECTIONS TO DUCT MAINS SHALL BE MADE WITH FITTINGS PROVIDED WITH TWIST RINGS, BUTTERFLY DAMPERS, LOCKING HAND QUADRANTS, AND INSULATION GUARDS.
 - ELECTRICAL CONTRACTOR SHALL FURNISH, ROUTE, AND INSTALL CONTROL WIRING FOR ALL MECHANICAL SYSTEMS. CONTROLS AND CONTROL WIRING TERMINATION FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE THERMOSTATS AND CONTROLS WIRING FOR SPECIFIED EQUIPMENT. THERMOSTAT SHALL BE EQUAL TO HONEYWELL.
 - INSTALL TOP OF THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR (AFF) UNLESS NOTED OTHERWISE. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT. FINAL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER. THERMOSTATS SHALL NOT BE INSTALLED ON EXTERIOR WALLS IF INTERIOR WALLS ARE AVAILABLE WITHIN SPACE SERVED BY THERMOSTAT. SHOULD THE THERMOSTAT REQUIRE INSTALLATION ON AN EXTERIOR WALL AN INSULATED BACKING PLATE MUST BE PROVIDED TO PREVENT FALSE READINGS BY THE THERMOSTAT.
 - SEQUENCE OF OPERATION: UNLESS NOTED OTHERWISE, THERMOSTAT AND UNITS SHALL BE SET UP FOR AN OCCUPIED MODE AND AN UNOCCUPIED MODE. IN OCCUPIED MODE, THE COMPRESSOR OR HEAT SHALL OPERATE WHEN NEEDED TO REACH THE THERMOSTAT SET POINT. THE SUPPLY SHALL OPERATE CONTINUOUSLY, AND THE OUTSIDE AIR DAMPER SHALL BE OPEN. IT IS A MECHANICAL CODE REQUIREMENT THAT THE FAN RUN CONTINUOUSLY TO BRING IN OUTSIDE AIR WHEN THE ZONE IS OCCUPIED. IN UNOCCUPIED MODE, THE COMPRESSOR OR HEAT SHALL OPERATE WHEN NEEDED TO REACH THE THERMOSTAT SET POINT. THE FAN SHALL OPERATE WHEN THE COMPRESSOR OR HEAT OPERATE AND THE OUTSIDE AIR DAMPER SHALL BE CLOSED.
 - PROVIDE FIRE DAMPERS AND FIRE-SMOKE DAMPERS WHERE INDICATED ON THE DRAWINGS AND AT ANY PLACE WHERE DUCTS PENETRATE A RATED BARRIER WHETHER SHOWN ON THE PLANS OR NOT.
 - MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE TEST AND BALANCE REPORT OF THE HVAC SYSTEMS TO INCLUDE OUTDOOR AIR TEMPERATURE AT TIME OF TESTING, ENTERING AIR TEMPERATURE AND LEAVING AIR TEMPERATURE AT THE COIL(S), AIR TEMPERATURE AT ONE SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE IN EACH ZONE, AND SPACE TEMPERATURE FOR EACH SYSTEM. A COPY OF THE TEST AND BALANCE REPORT SHALL BE TRANSMITTED TO THE OWNER AND ENGINEER AND TO THE LOCAL CODE OFFICIALS AS REQUIRED.

SEALS

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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
| | | |

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DRAWING NAME MECHANICAL LEGEND AND NOTES

DRAWING NO.
MO.1

Drawn By: EBZ Checked By: MAR

| DEDICATED OUTSIDE AIR SPLIT SYSTEM SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|-------------|------------------|----------------|-------|--------------------------|-----------|--------------|-------|------|---------------------------------|---------------------|-------|-----------------|-----------------|----------------------|-----|--------|------------|---------|-----------------|-------------------------|-----------|
| MARK | OUTSIDE UNIT | INSIDE UNIT | AREA SERVED | MANUFACTURER | MODEL | HEAT PUMP (OUTSIDE UNIT) | | | | | AIR HANDLING UNIT (INSIDE UNIT) | | | | | | | | | | ELECTRICAL DATA | NOTES | |
| | | | | | | TONS | TOTAL MBH | SENSIBLE MBH | EER | MBH | COP | EST. WEIGHT (LBS) | MODEL | OUTSIDE AIR CFM | EXHAUST AIR CFM | SUMMER ENT. AIR DBWB | ESP | FAN HP | KW | CONTROL | | | TEMP RISE |
| DOAHP-1 | DOAHU-1 | 1932 BLDG | MITSUBISHI-TRANE | TUHY93124BN40A | 26 | 312.0 | --- | 11.6 | 350.0 | 3.5 | 1800 | CSAA010 | 4100 | --- | 94.1°F / 77.1°F | 2.0 | 5 | 36.3 | MODULATING | 28°F | 2700 | SEE ELECTRICAL DRAWINGS | 1-8 |
| DOAHP-2 | DOAHU-2 | 1982 JAIL | MITSUBISHI-TRANE | TUHYE1444AN40A | 12 | 144.0 | --- | 12.4 | 160.0 | 3.68 | 750 | MFF-2-W1-22-144-D2M | 3400 | 3400 | 94.1°F / 77.1°F | 1.5 | 5 | 40 | SCR | 36.5°F | 3600 | SEE ELECTRICAL DRAWINGS | 1-8 |
| DOAHP-3 | DOAHU-3 | 1982 BLDG | MITSUBISHI-TRANE | TUHYE2404BN40A | 20 | 240.0 | --- | 12.3 | 270.0 | 3.54 | 1400 | MFF-2-W2-22-240-D2M | 4100 | 2100 | 94.1°F / 77.1°F | 1.5 | 5 | 70 | SCR | 53.0°F | 3600 | SEE ELECTRICAL DRAWINGS | 1-8 |

- NOTES:
1. LISTED CAPACITY IS THE UNITS GROSS COOLING CAPACITY AT OUTDOOR DESIGN CONDITION, SUMMER 94.1°F DB / 73.7°F WB, WINTER 25.8°F DB.
2. EACH HEAT PUMP AND EACH AIR HANDLING UNIT SHALL BE FACTORY WIRED FOR SINGLE POINT CONNECTION.
3. PROVIDE WITH LOW AMBIENT CONTROLS, MICROPROCESSOR CONTROLS, CONDENSER COIL, HALL GUARD, STAINLESS STEEL DRAIN PANS.
4. PROVIDE WITH HOT GAS REHEAT AND HUMIDITY SENSORS IN THE ENTERING OUTSIDE AIR DUCT.
5. UNITS SHALL UTILIZE DEMAND CONTROLLED VENTILATION.
6. PROVIDE WITH MOTORIZED DAMPER IN ENTERING OUTSIDE AIR DUCT.
7. PROVIDE FACTORY INSTALLED ELECTRICAL DISCONNECT.
8. UNIT SELECTIONS ARE BASED ON R-410A REFRIGERANT.

| PACKAGED ROOFTOP UNITS WITH ELECTRIC HEAT SCHEDULE | | | | | | | | | | | | | | | | | | |
|--|--------------------|-------------|--------------|------------------|-------------------|-------------|----------|------|----------------------|-------------------------|----------|---------------|--------|-------------------------|-----------------|--------------------|-------------------|-------|
| MARK | MANUFACTURER MODEL | AREA SERVED | NOMINAL TONS | FAN SELECTION | | | | | COOLING CAPACITY | | | HEAT CAPACITY | | | ELECTRICAL DATA | MINIMUM EER (SEER) | EST. WEIGHT (LBS) | NOTES |
| | | | | SUPPLY AIR (CFM) | OUTSIDE AIR (CFM) | ESP (IN WG) | MOTOR HP | RPM | TOTAL COOLING (BTUH) | SENSIBLE COOLING (BTUH) | KW INPUT | MBH OUTPUT | STAGES | | | | | |
| RTU-1 | TRANE TSC060G3 | 1932 JAIL | 5 | 2000 | 300 | 1.0 | 1.00 | 1150 | 59,970 | 49,310 | 12 | 40.96 | 2 | SEE ELECTRICAL DRAWINGS | 12.0 | 900 | 1-15 | |
| RTU-2 | TRANE TSC060G3 | 1932 JAIL | 5 | 2000 | 300 | 1.0 | 1.00 | 1150 | 59,970 | 49,310 | 12 | 40.96 | 2 | SEE ELECTRICAL DRAWINGS | 12.0 | 900 | 1-15 | |

- NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE CARRIER, DAIKEN APPLIED, AND YORK.
2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER.
3. PROVIDE FACTORY FURNISHED 1" HIGH INSULATED ROOF CURB.
4. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO HEAT/COOL CHANGEOVER. THERMOSTAT SHALL BE EQUAL TO HONEYWELL T7350. REFER TO PLAN FOR THERMOSTAT LOCATIONS.
5. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.
6. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
7. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
8. SMOKE DETECTOR TO BE PROVIDED BY FIRE ALARM CONTRACTOR AND SHALL BE INSTALLED IN THE RETURN DUCTWORK.
9. PROVIDE FACTORY INSTALLED ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
10. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
11. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO OPENING.
12. UNIT SHALL USE R-410A REFRIGERANT.
13. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY.
14. LABEL UNITS WITH TAG NUMBER OR STENCIL TAG NUMBER ON SIDE OF UNIT WITH BLACK EXTERIOR PAINT.
15. PROVIDE FACTORY-MOUNTED DISCONNECT.

| SPLIT SYSTEM SCHEDULE - COOLING ONLY | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------------|-------------|-------------|--------------|------------|--------------------------------|---------------------|------------------------|-----|---------------------------------|--------------|------------|-------------|------|--------|-------------------------|-------|
| MARK | OUTSIDE UNIT | INSIDE UNIT | AREA SERVED | NOMINAL TONS | MANUF. | CONDENSING UNIT (OUTSIDE UNIT) | | | | AIR HANDLING UNIT (INSIDE UNIT) | | | | | | ELECTRICAL DATA | NOTES |
| | | | | | | MODEL NUMBER | TOTAL COOLING (MBH) | SENSIBLE COOLING (MBH) | EER | EST. WEIGHT (LBS) | MODEL NUMBER | SUPPLY AIR | OUTSIDE AIR | ESP | FAN HP | | |
| CU-1 | AHU-1 | IT ROOM | 3.5 | TRANE | 4TTA3042D3 | 43,900 | 31,800 | 12.0 | 200 | TEMA40C24251 | 1450 | --- | 0.50 | 0.50 | 150 | SEE ELECTRICAL DRAWINGS | 1-15 |
| CU-2 | AHU-2 | IT ROOM | 5 | TRANE | 4TTA4060A3 | 57,300 | 44,500 | 11.5 | 225 | TEMA40C60551 | 1650 | --- | 0.50 | 0.75 | 150 | SEE ELECTRICAL DRAWINGS | 1-15 |

- NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE CARRIER, DAIKEN APPLIED, AND YORK.
2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER.
3. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE EQUAL TO HONEYWELL T7350. REFER TO PLAN FOR THERMOSTAT LOCATIONS.
4. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH.
5. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
6. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
7. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO OPENING.
8. EACH CONDENSING UNIT AND EACH AIR HANDLER SHALL BE WIRED FOR A SINGLE POINT CONNECTION.
9. UNIT SHALL USE R-410A REFRIGERANT.
10. PROVIDE WITH VIBRATION ISOLATION.
11. PROVIDE WITH COOLING COIL FROM THE SAME MANUFACTURER.
12. PROVIDE OUTDOOR UNIT WITH 4" CONCRETE HOUSEKEEPING PAD FOR GROUND-MOUNTED EQUIPMENT OR ROOF RAILS FOR ROOF-MOUNTED EQUIPMENT.
13. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY.
14. LABEL UNITS WITH TAG NUMBER OR STENCIL TAG NUMBER ON SIDE OF OUTSIDE UNIT WITH BLACK EXTERIOR PAINT.
15. PROVIDE AIR HANDLER WITH CONDENSATE PUMP.

| FAN SCHEDULE | | | | | | | | | | | | | | |
|--------------|--------------------|----------------------|---------|-------------|-----|-------------------------|-------------|------------|-------------------------|------------------|------------|-------|--------|-------|
| MARK | MANUFACTURER MODEL | AREA SERVED | SERVICE | TYPE | CFM | STATIC PRESSURE (IN WG) | NOMINAL RPM | DRIVE TYPE | ELECTRICAL DATA | MOTOR HP (WATTS) | CONTROL | SONES | WEIGHT | NOTES |
| EF-1 | GREENHECK CSP-A190 | 1932 BASEMENT | EXHAUST | CABINET FAN | 150 | 0.2 | 1190 | DIRECT | SEE ELECTRICAL DRAWINGS | (32) | CONTINUOUS | 0.8 | 16 | 1-8 |
| EF-2 | GREENHECK G-098-VG | 1932 BLDG PLAN NORTH | EXHAUST | DOWNBLAST | 350 | 0.8 | 1436 | DIRECT | | 1/4 | CONTINUOUS | 8.0 | 40 | 1-8 |
| EF-3 | GREENHECK G-095-VG | 1932 BLDG PLAN SOUTH | EXHAUST | DOWNBLAST | 250 | 0.8 | 1647 | DIRECT | | 1/6 | CONTINUOUS | 11.3 | 30 | 1-8 |
| (EFB-2) | EXISTING TO REMAIN | ELECTRICAL (0133) | EXHAUST | --- | --- | --- | --- | --- | | --- | THERMOSTAT | --- | --- | 9 |

- NOTES:
1. PROVIDE UNIT WITH GRAVITY BACKDRAFT DAMPER.
2. PROVIDE VIBRATION ISOLATION.
3. UNIT SHALL BE UL LISTED AND AMCA CERTIFIED.
4. PROVIDE INTEGRAL DISCONNECT.
5. PROVIDE SPEED CONTROL.
6. PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION.
7. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.
8. ACCEPTABLE EQUALS SHALL BE ACME, BREIDERT, CARNES, COOK, AND PENN.
9. FAN IS EXISTING TO REMAIN. CONTRACTOR TO VERIFY CONDITION AND REPAIR OR REPLACE AS NECESSARY.

| LOUVER SCHEDULE | | | | | | | | |
|-----------------|--------------------|---------|---------|-------------------|--------------------|------------------------|-------------|-------|
| MARK | MANUFACTURER MODEL | TYPE | OPENING | FREE AREA (SQ FT) | MAX VELOCITY (FPM) | PRESSURE DROP (IN. WG) | SCREEN TYPE | NOTES |
| L-1 | RUSKIN ELF375DXH | EXHAUST | 54 x 24 | 4.58 | 800 | 0.095 | BIRD | 1-6 |
| L-2 | RUSKIN ELF375DXH | INTAKE | 54 x 24 | 4.58 | 800 | 0.12 | BIRD | 1-6 |

- NOTES:
1. LOUVER DIMENSIONS ARE 1/4" LESS THAN OPENING DIMENSIONS.
2. LOUVER SHALL BE AMCA CERTIFIED.
3. PROVIDE WITH MANUFACTURER STANDARD CORROSION RESISTANT FINISH.
4. FINISH SHALL BE SELECTED TO MATCH EXISTING LOUVERS CURRENTLY IN USE.
5. ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE GREENHECK.
6. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR
ALL COMMERCIAL PROJECTS**
MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE: 4A
winter dry bulb: 22.4° F.
summer dry bulb: 94.4° F.

INTERIOR DESIGN CONDITIONS:
winter dry bulb: 68° F.
summer dry bulb: 74° F.
relative humidity: 50% R.H.

BUILDING HEATING LOAD: 236,500 BTUH (peak)
BUILDING COOLING LOAD: 577,500 BTUH (peak)

MECHANICAL SPACING CONDITIONING SYSTEM:
UNITARY: VRF DX COOLING HEAT PUMP
description of unit: SEE SCHEDULE
heating efficiency: SEE SCHEDULE
cooling efficiency: SEE SCHEDULE
size category of unit: SEE SCHEDULE

BOILER:
size category: N/A
CHILLER:
size category: N/A

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULE

| AIR DISTRIBUTION SCHEDULE | | | | | | | | | |
|---------------------------|---------------|---|-----------------|-------|-----------|-----------|----------|---------|--|
| MARK | TYPE | DESCRIPTION | DESIGN BASIS | | FACE SIZE | NECK SIZE | MATERIAL | NOTES | |
| | | | MANUF. | MODEL | | | | | |
| S-1 | SUPPLY | SQUARE PLAQUE DIFFUSER, LAY-IN | PRICE | SPD | 12"x12" | 4"Ø | ALUMINUM | 1-4 | |
| S-2 | SUPPLY | SQUARE PLAQUE DIFFUSER, LAY-IN | PRICE | SPD | 12"x12" | 6"Ø | ALUMINUM | 1-4 | |
| S-3 | SUPPLY | SQUARE PLAQUE DIFFUSER, LAY-IN | PRICE | SPD | 24"x24" | 6"Ø | ALUMINUM | 1-4 | |
| S-4 | SUPPLY | SQUARE PLAQUE DIFFUSER, LAY-IN | PRICE | SPD | 24"x24" | 8"Ø | ALUMINUM | 1-4 | |
| S-5 | SUPPLY | SQUARE PLAQUE DIFFUSER, LAY-IN | PRICE | SPD | 24"x24" | 10"Ø | ALUMINUM | 1-4 | |
| S-6 | SUPPLY | SPIRAL DUCT GRILLE, DUCT MOUNTED | PRICE | SDGE | 10"x4" | --- | ALUMINUM | 1-4 | |
| S-7 | SUPPLY | SPIRAL DUCT GRILLE, DUCT MOUNTED | PRICE | SDGE | 10"x6" | --- | ALUMINUM | 1-4 | |
| S-8 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 8"x4" | --- | ALUMINUM | 1-4 | |
| S-9 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 12"x4" | --- | ALUMINUM | 1-4 | |
| S-10 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 12"x6" | --- | ALUMINUM | 1-4 | |
| S-11 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 20"x6" | --- | ALUMINUM | 1-4 | |
| S-12 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 16"x12" | --- | ALUMINUM | 1-4 | |
| S-13 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 18"x12" | --- | ALUMINUM | 1-4 | |
| S-14 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610 | 24"x14" | --- | ALUMINUM | 1-4 | |
| S-15 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | WOOD AIR GRILLE | WRAG | 36"x12" | --- | WOOD | 1-4 | |
| S-16 | SUPPLY | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | WOOD AIR GRILLE | WRAG | 26"x20" | --- | WOOD | 1-4 | |
| S-17 | SUPPLY | LINEAR SLOT DIFFUSER, 1 SLOT 3/4" WIDTH, LAY-IN | PRICE | SDS75 | 36" | 4"Ø | ALUMINUM | 1-4 | |
| S-18 | SUPPLY | LINEAR SLOT DIFFUSER, 2 SLOT 3/4" WIDTH, LAY-IN | PRICE | SDS75 | 60" | 8"Ø | ALUMINUM | 1-4 | |
| S-19 | SUPPLY | LINEAR SLOT DIFFUSER, 3 SLOT 3/4" WIDTH, LAY-IN | PRICE | SDS75 | 60" | 10"Ø | ALUMINUM | 1-4 | |
| (E)S | SUPPLY | EXISTING SUPPLY DIFFUSER TO REMAIN | --- | --- | --- | --- | --- | 5 | |
| R-1 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 6"x6" | ALUMINUM | 2, 3, 4 | |
| R-2 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 8"x8" | ALUMINUM | 2, 3, 4 | |
| R-3 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 10"x10" | ALUMINUM | 2, 3, 4 | |
| R-4 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 12"x12" | ALUMINUM | 2, 3, 4 | |
| R-5 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 14"x14" | ALUMINUM | 2, 3, 4 | |
| R-6 | RETURN | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 16"x16" | ALUMINUM | 2, 3, 4 | |
| R-7 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 16"x14" | --- | ALUMINUM | 2, 3, 4 | |
| R-8 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 18"x16" | --- | ALUMINUM | 2, 3, 4 | |
| R-9 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 16"x20" | --- | ALUMINUM | 2, 3, 4 | |
| R-10 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 36"x18" | --- | ALUMINUM | 2, 3, 4 | |
| R-11 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 54"x16" | --- | ALUMINUM | 2, 3, 4 | |
| R-12 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610Z | 50"x8" | --- | ALUMINUM | 2, 3, 4 | |
| R-13 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 610Z | 42"x20" | --- | ALUMINUM | 2, 3, 4 | |
| R-14 | RETURN | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | WOOD AIR GRILLE | WRAG | 36"x12" | --- | WOOD | 2, 3, 4 | |
| R-15 | RETURN | LINEAR SLOT DIFFUSER, 2 SLOT 3/4" WIDTH, LAY-IN | PRICE | SDR75 | 60" | --- | ALUMINUM | 2, 3, 4 | |
| R-16 | RETURN | LINEAR SLOT DIFFUSER, 3 SLOT 3/4" WIDTH, LAY-IN | PRICE | SDR75 | 60" | --- | ALUMINUM | 2, 3, 4 | |
| E-1 | EXHAUST | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 12"x12" | 6"x6" | ALUMINUM | 2, 3, 4 | |
| E-2 | EXHAUST | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 12"x12" | 8"x8" | ALUMINUM | 2, 3, 4 | |
| T-1 | TRANSFER | PERFORATED DIFFUSER, LAY-IN | PRICE | PDDR | 24"x24" | 12"x12" | ALUMINUM | 2, 3, 4 | |
| T-2 | TRANSFER | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 10"x5" | --- | ALUMINUM | 2, 3, 4 | |
| T-3 | TRANSFER | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 18"x6" | --- | ALUMINUM | 2, 3, 4 | |
| T-4 | TRANSFER | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 22"x8" | --- | ALUMINUM | 2, 3, 4 | |
| T-5 | TRANSFER | LOUVERED GRILLE, FRONT BLADES HORIZONTAL, SURFACE-MOUNTED | PRICE | 630 | 32"x12" | --- | ALUMINUM | 2, 3, 4 | |
| (E)L | SUPPLY/RETURN | EXISTING WOODEN LOUVER TO REMAIN | --- | --- | --- | --- | WOOD | 5 | |

- NOTES:
1. PROVIDE OPPOSED BLADE DAMPERS IN NECK OF DIFFUSER OR REGISTER, WITH ACCESS TO DAMPER THROUGH FACE OF DIFFUSER OR REGISTER.
2. FINISH SHALL MATCH EXISTING DIFFUSERS AND GRILLED CURRENTLY IN USE.
3. CONTRACTOR TO VERIFY MOUNTING TYPE WITH EXISTING CONDITIONS.
4. ACCEPTABLE EQUALS INCLUDE METALAIRPE AND TITUS.
5. CONTRACTOR SHALL CLEAN EXISTING DIFFUSER OR GRILLE AND VERIFY AS OPERATIONAL. REPAIR OR REPLACE AS NECESSARY. ANY REPLACEMENT DIFFUSER OR GRILLE SHALL BE SELECTED TO MATCH EXISTING AND VERIFIED TO HANDLE AIRFLOW AS LISTED ON THE MECHANICAL PLANS.

| VENTILATION COMPLIANCE SCHEDULE | | | | | | | | | | | |
|---------------------------------|--------------|------------|---------------------|------------------|--------------------|-----------------|----------------------------|----------------------------------|----------------------------------|-----|-----|
| UNIT MARK | AREA SERVED | AREA (FT²) | PEOPLE PER 1000 FT² | NUMBER OF PEOPLE | AIRFLOW PER PERSON | AIRFLOW PER FT² | OUTSIDE AIR REQUIRED (CFM) | TOTAL OUTSIDE AIR REQUIRED (CFM) | TOTAL OUTSIDE AIR PROVIDED (CFM) | | |
| DOAHU-1 | RECEPTION | 260 | 30 | 8 | 5 | 0.06 | 56 | 4,098 | 4,100 | | |
| | COURTROOM | 5,290 | 70 | 371 | 5 | 0.06 | 2,173 | | | | |
| | HOLDING CELL | 160 | 25 | 4 | 5 | 0.12 | 40 | | | | |
| | CONFERENCE | 440 | 50 | 22 | 5 | 0.06 | 137 | | | | |
| | OFFICE | 11,250 | 5 | 57 | 5 | 0.06 | 960 | | | | |
| | BREAKROOM | 715 | 5 | 4 | 5 | 0.06 | 64 | | | | |
| | STORAGE | 1,790 | --- | --- | --- | 0.12 | 215 | | | | |
| | CORRIDOR | 7,535 | --- | --- | --- | 0.06 | 453 | | | | |
| | COMMON AREA | 2,425 | 30 | 73 | 5 | 0.06 | 511 | | | | |
| | HOLDING CELL | 3,565 | 25 | 90 | 5 | 0.12 | 879 | | | | |
| DOAHU-2 | CONFERENCE | 130 | 50 | 7 | 5 | 0.06 | 43 | 1,816 | 3,400 | | |
| | OFFICE | 815 | 5 | 5 | 5 | 0.06 | 75 | | | | |
| | LAUNDRY | 130 | 10 | 2 | 25 | --- | 50 | | | | |
| | STORAGE | 1,470 | --- | --- | --- | 0.12 | 177 | | | | |
| | CORRIDOR | 1,345 | --- | --- | --- | 0.06 | 81 | | | | |
| | LOBBY | 3,185 | 10 | 32 | 5 | 0.06 | 352 | | | | |
| | COURTROOM | 4,680 | 70 | 328 | 5 | 0.06 | 1,921 | | | | |
| | HOLDING CELL | 140 | 25 | 4 | 5 | 0.12 | 37 | | | | |
| | CONFERENCE | 1,665 | 50 | 84 | 5 | 0.06 | 521 | | | | |
| | OFFICE | 9,500 | 5 | 48 | 5 | 0.06 | 810 | | | | |
| DOAHU-3 | BREAKROOM | 725 | 5 | 4 | 5 | 0.06 | 64 | 4,062 | 4,100 | | |
| | STORAGE | 725 | --- | --- | --- | 0.12 | 88 | | | | |
| | CORRIDOR | 4,465 | --- | --- | --- | 0.06 | 269 | | | | |
| | RTU-1 | 1932 JAIL | 4850 | --- | --- | 0.12 | 582 | | | 582 | 600 |
| | RTU-2 | | | | | | | | | | |
| | | | | | | | TOTAL | 10,558 | 12,200 | | |

- NOTES:
1. PEOPLE DENSITY, CFM PER PERSON, AND CFM PER SQUARE FOOT ARE BASED ON THE MECHANICAL CODE DEFAULT VALUES UNLESS NOTED OTHERWISE.



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877.4.DEVITA • corp@devitainc.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
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COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

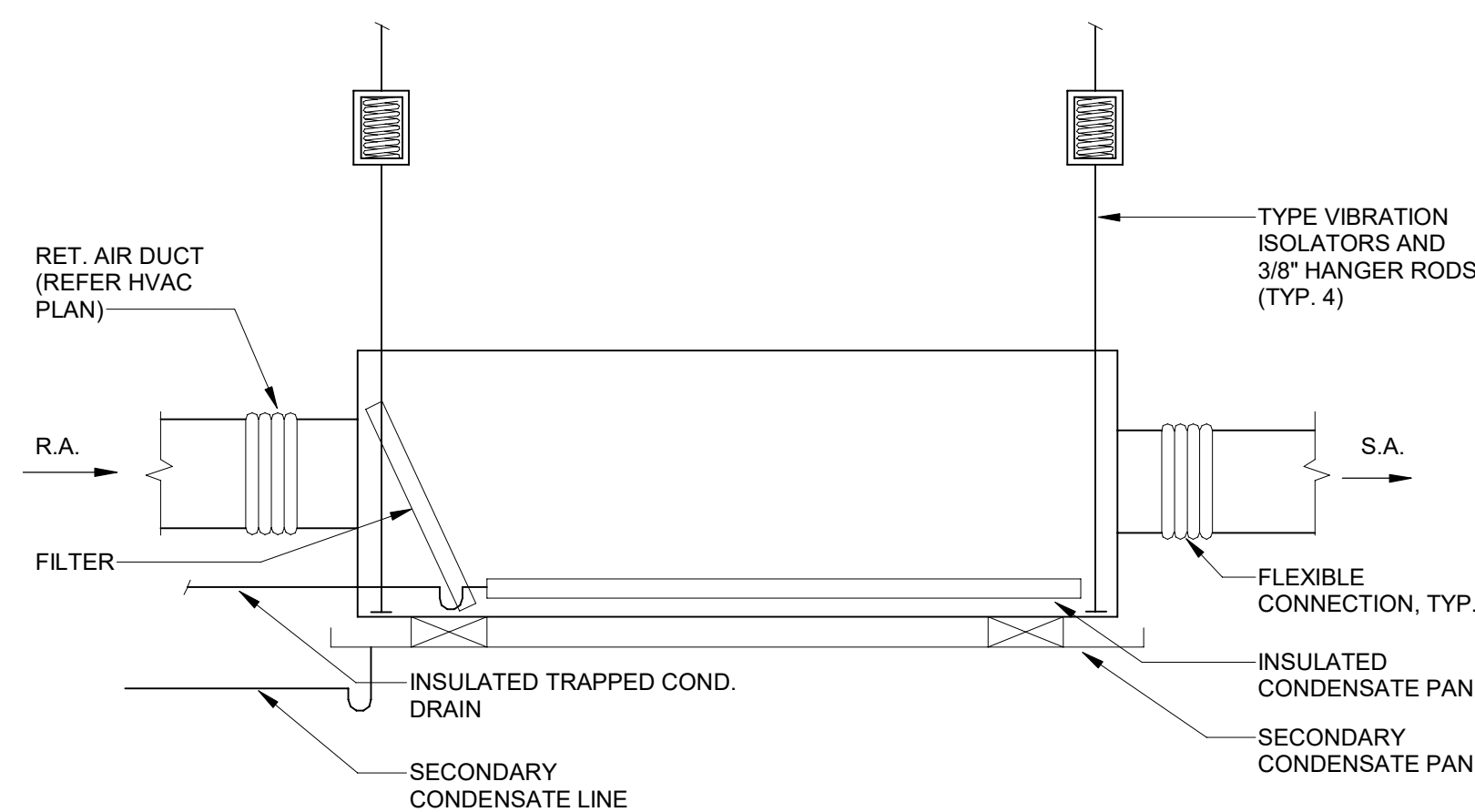
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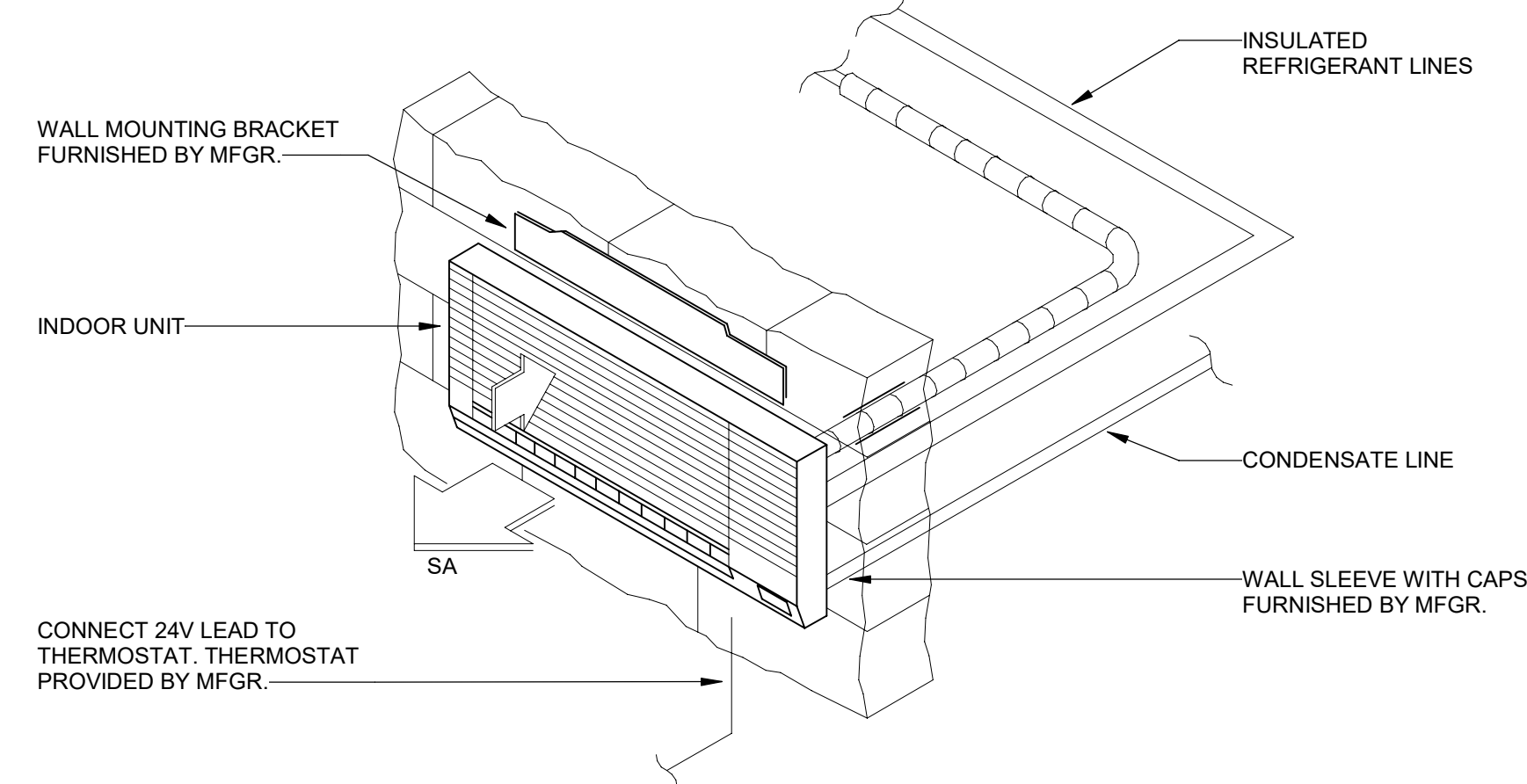
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MECHANICAL DETAILS**

DRAWING NO. **M0.6**

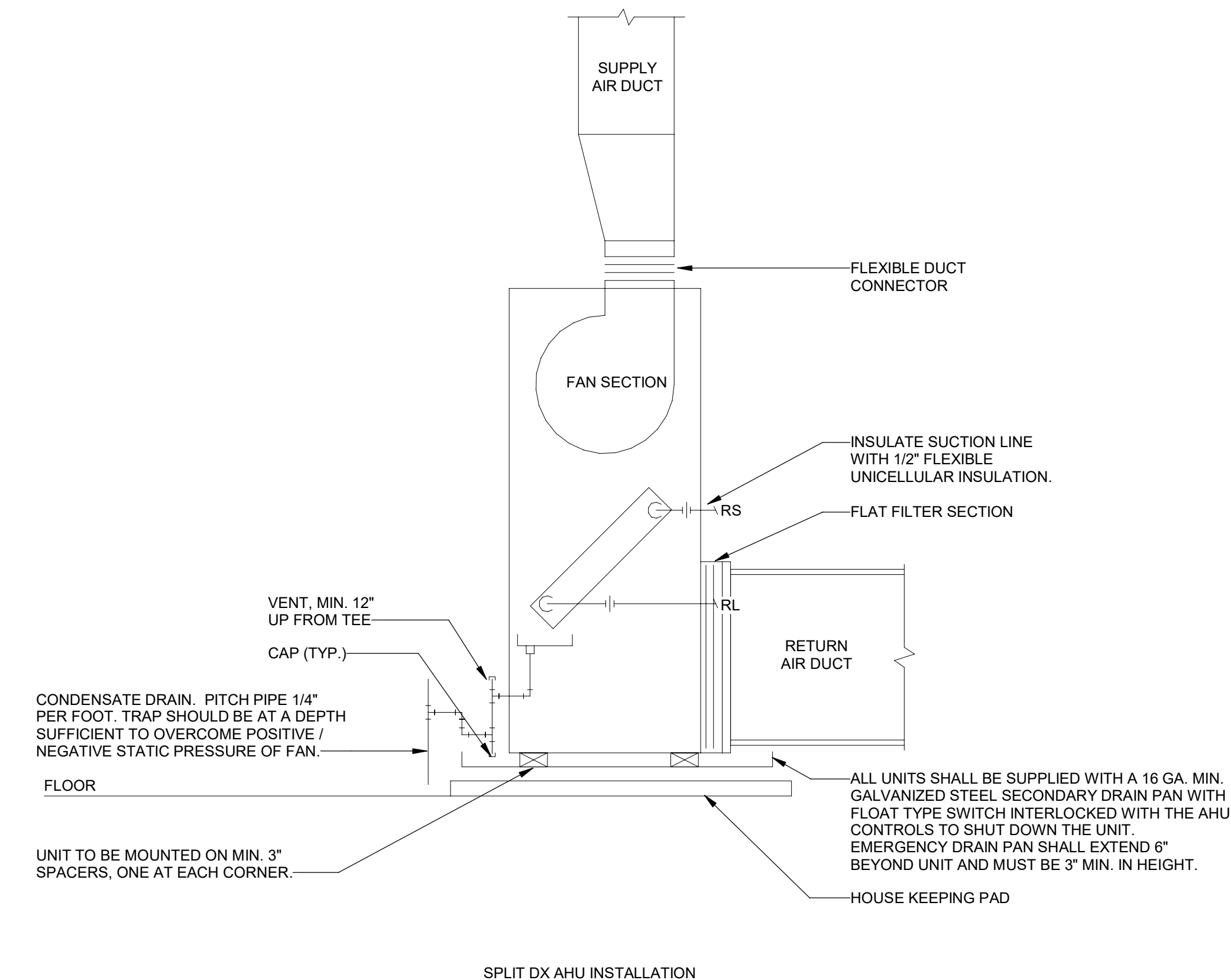
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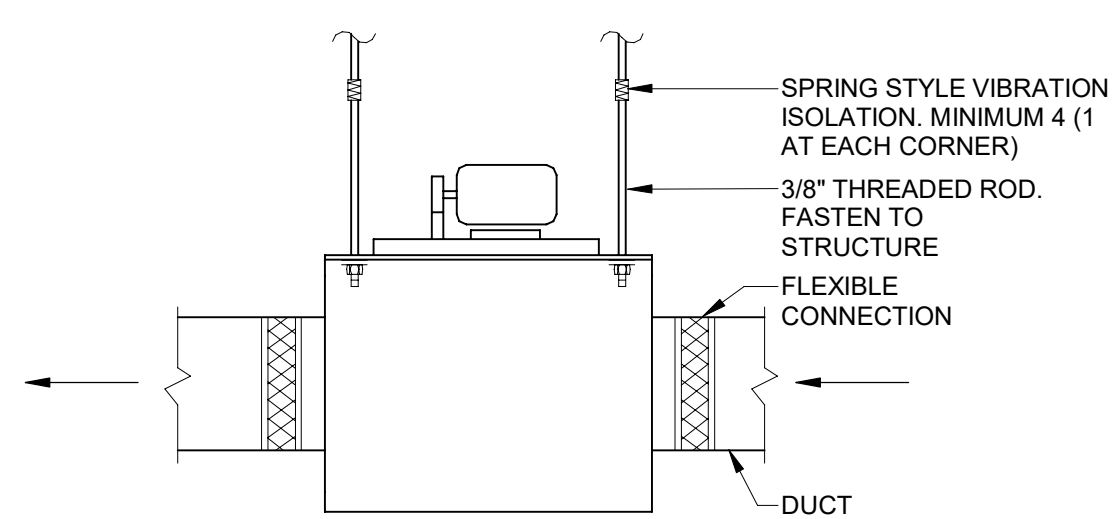
1 CONCEALED DUCTED SPLIT SYSTEM
M0.6 NOT TO SCALE



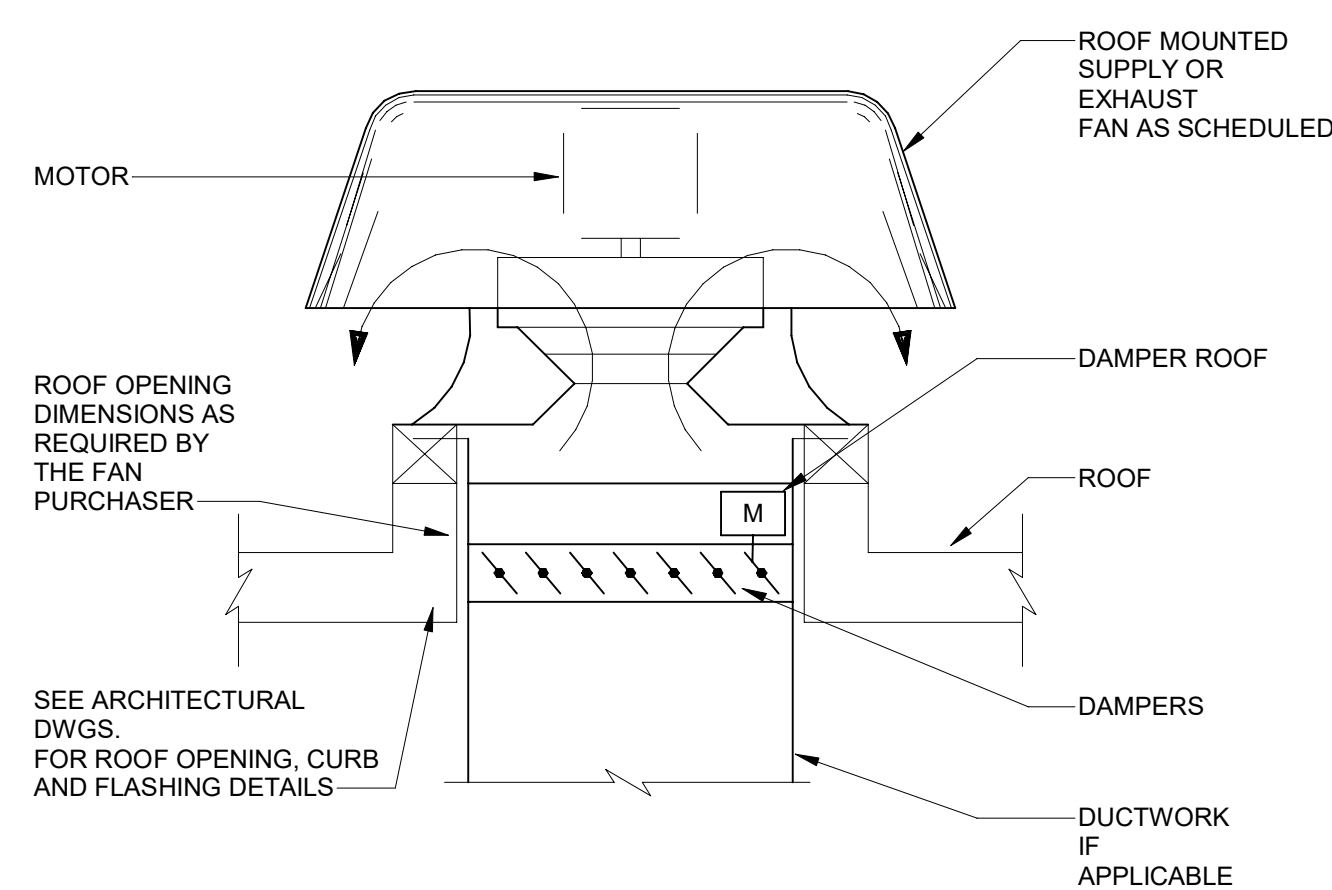
2 DUCTLESS WALL-HUNG SPLIT SYSTEM
M0.6 NOT TO SCALE



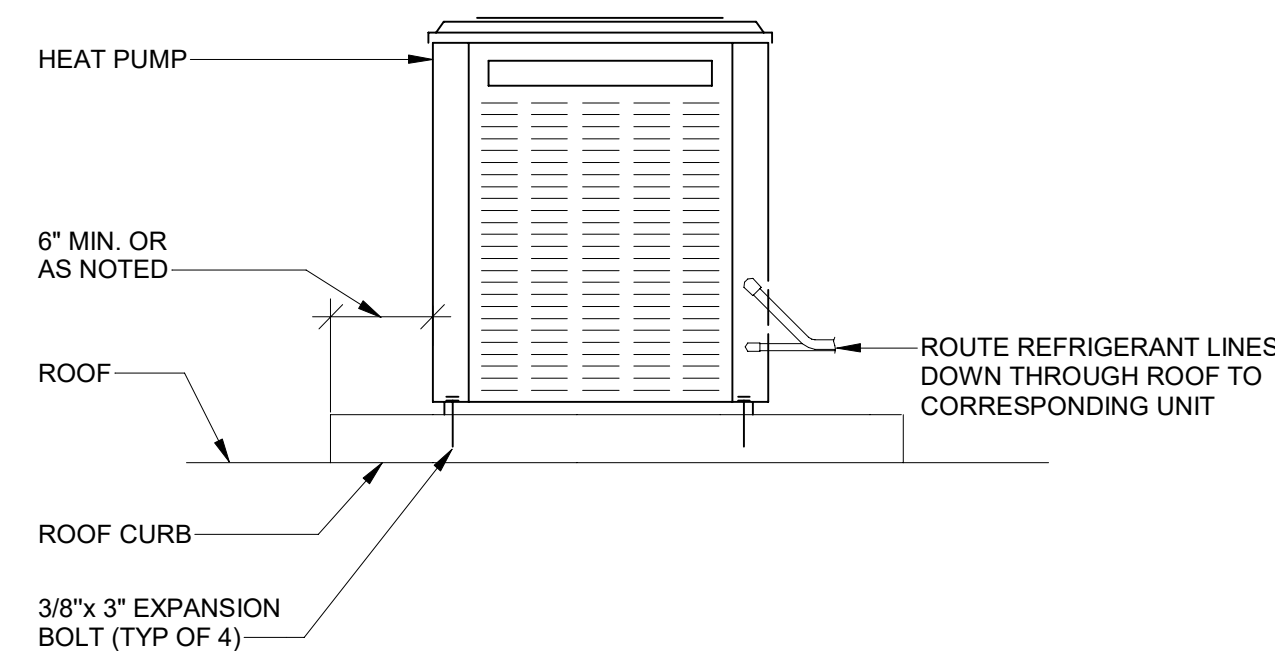
3 AIR HANDLING UNIT INSTALLATION
M0.6 NOT TO SCALE



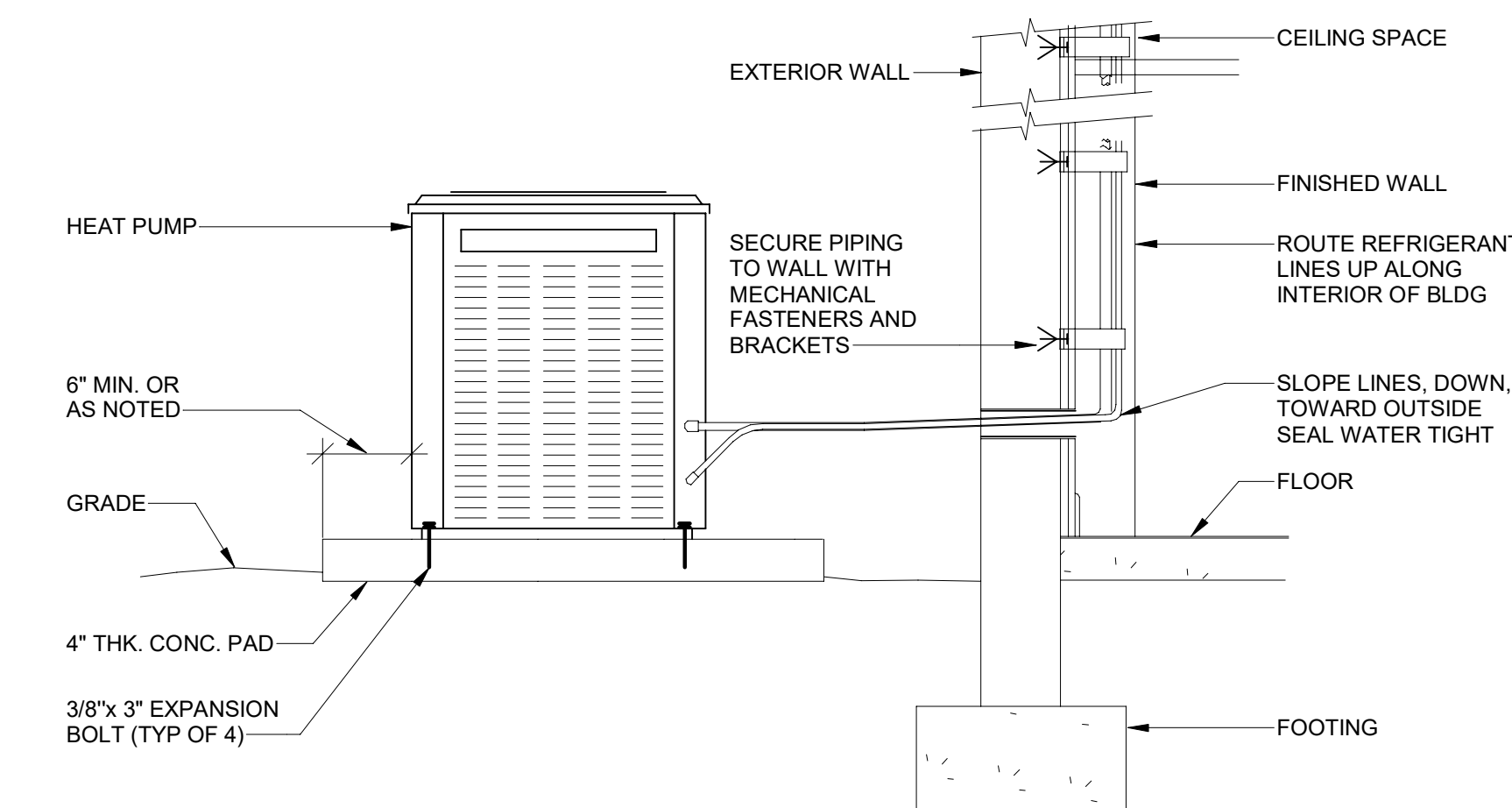
4 INLINE CABINET FAN
M0.6 NOT TO SCALE



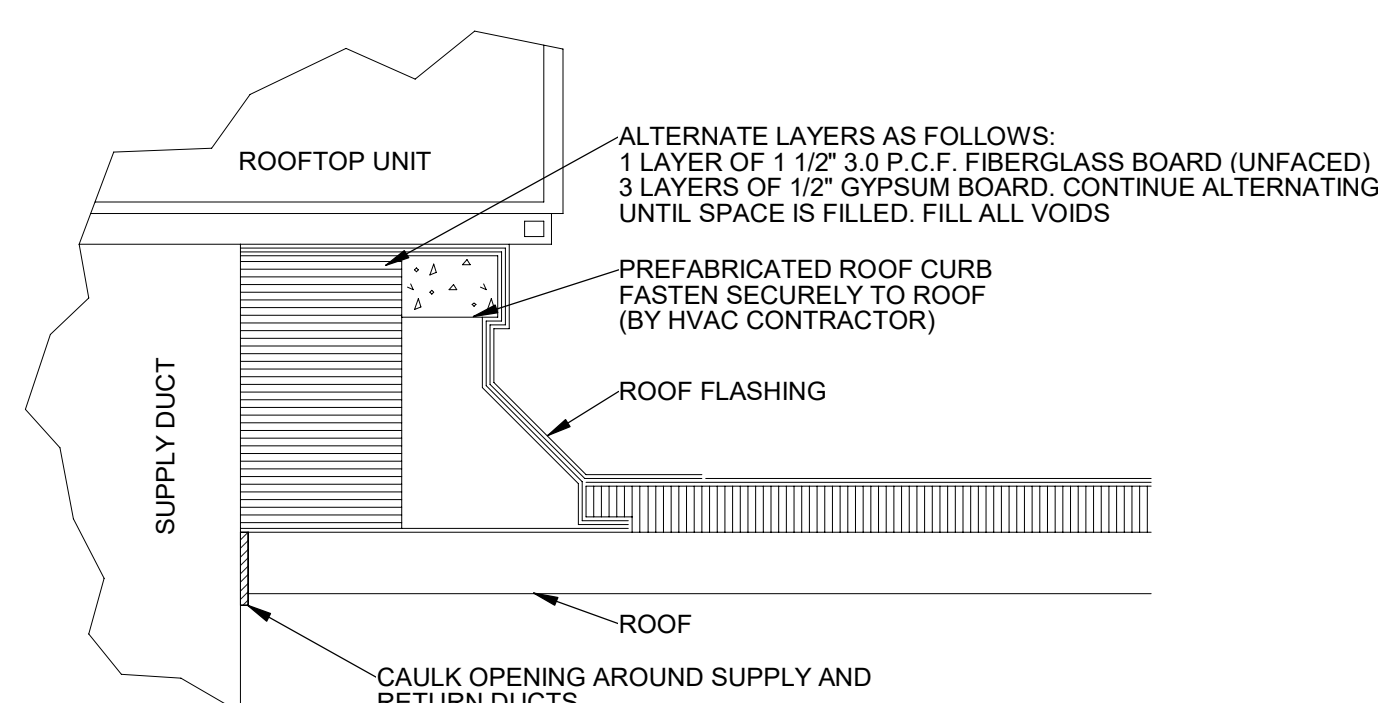
5 ROOF-MOUNTED EXHAUST & SUPPLY FAN
M0.6 NOT TO SCALE



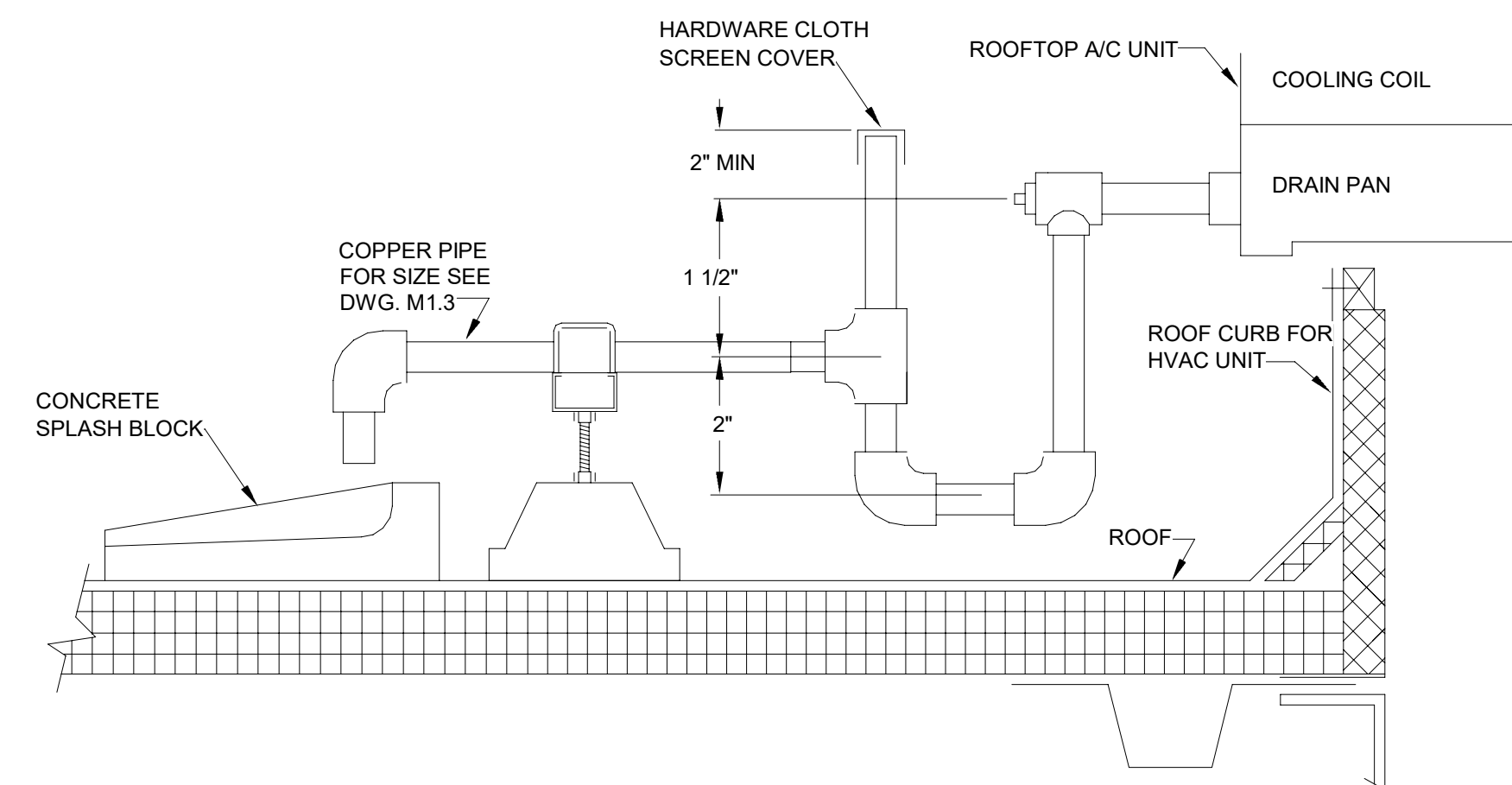
6 HEAT PUMP - ON ROOF
M0.6 NOT TO SCALE



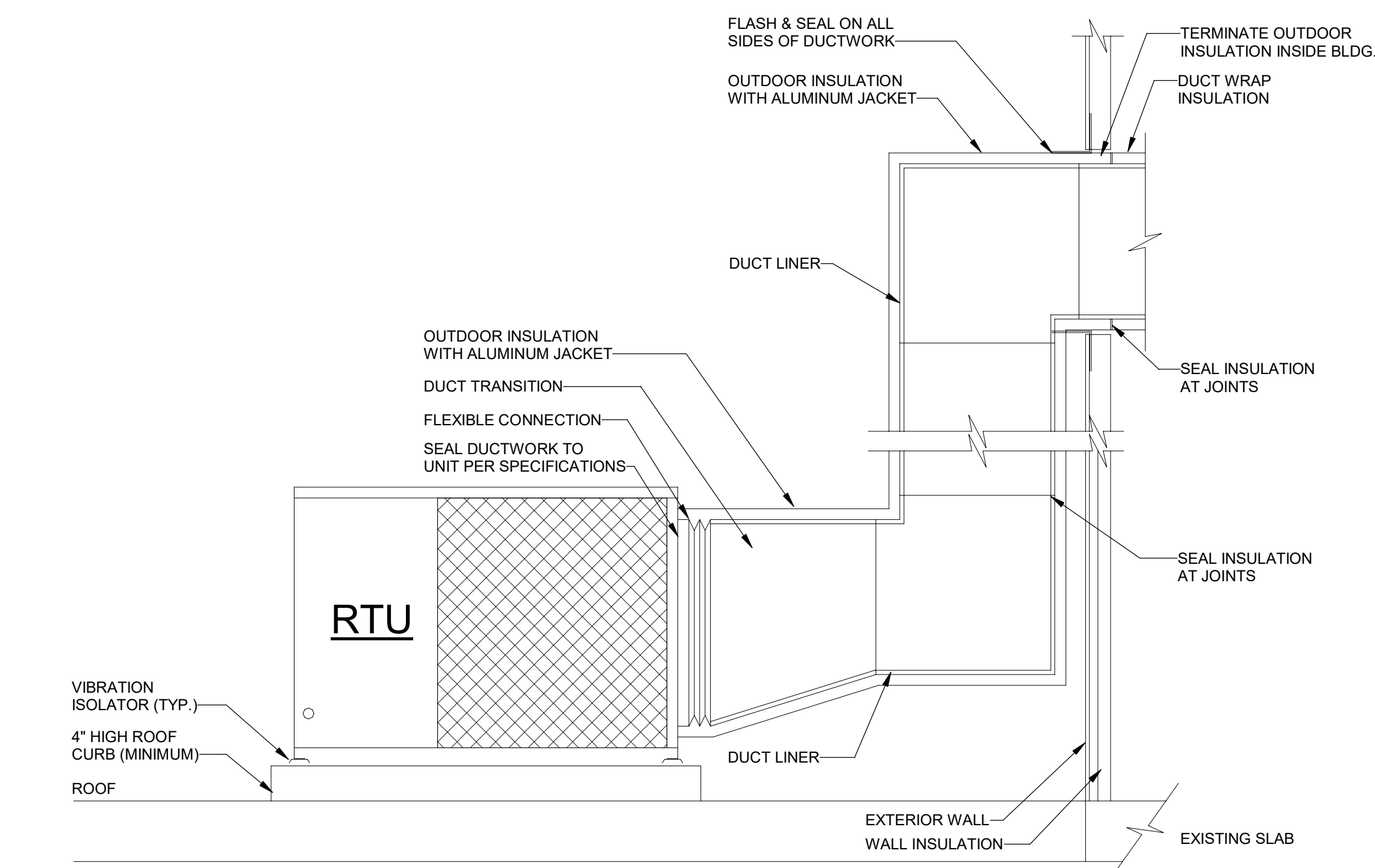
7 HEAT PUMP - ON GROUND
M0.6 NOT TO SCALE



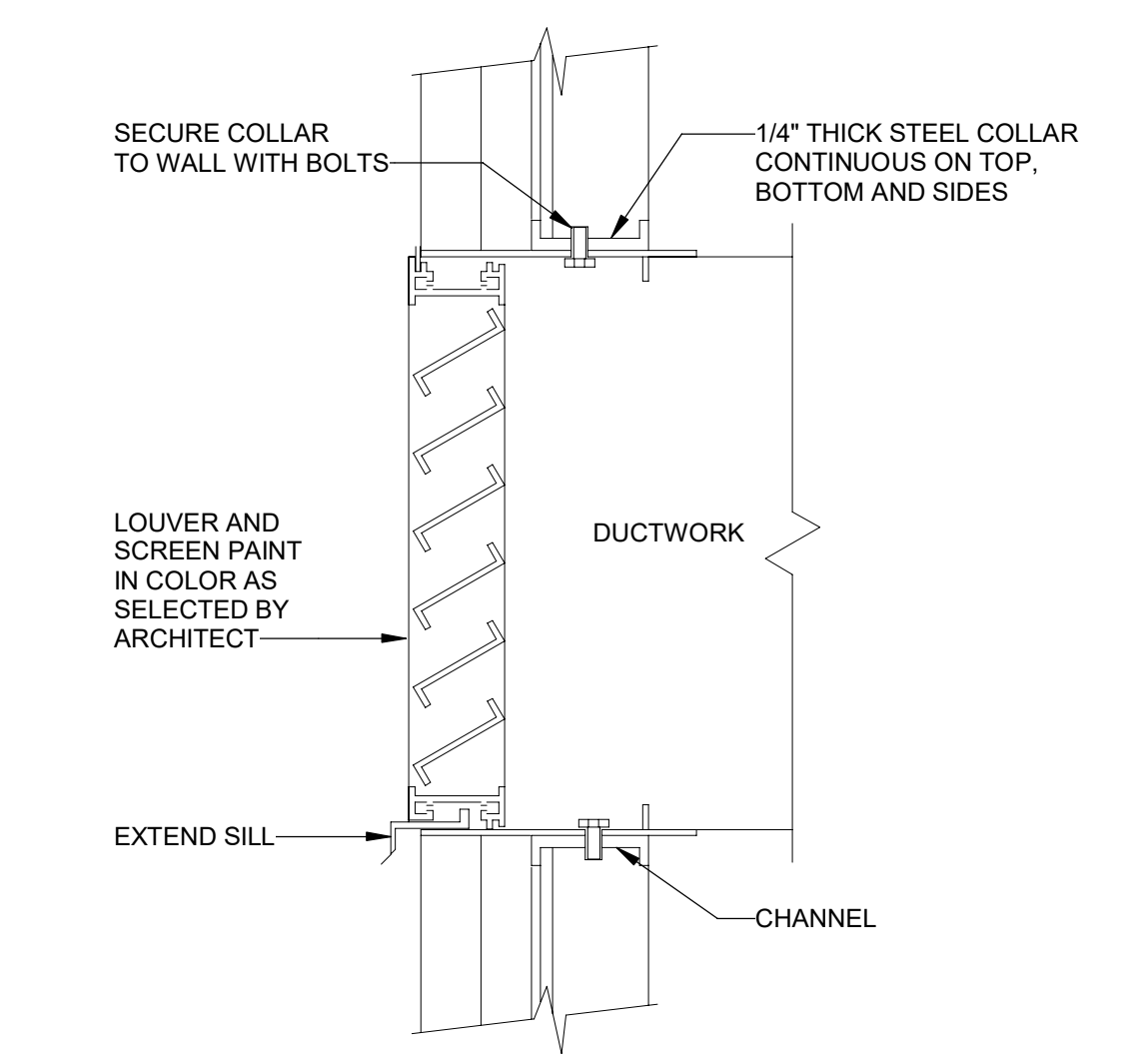
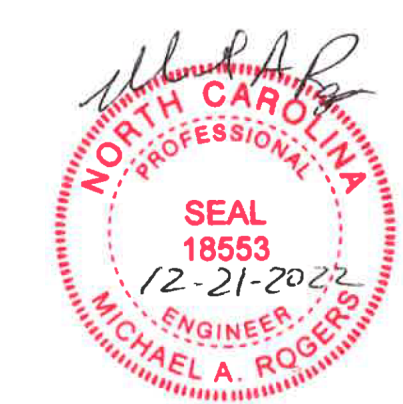
8 ROOF TOP UNIT CURB DETAIL
M0.6 NOT TO SCALE



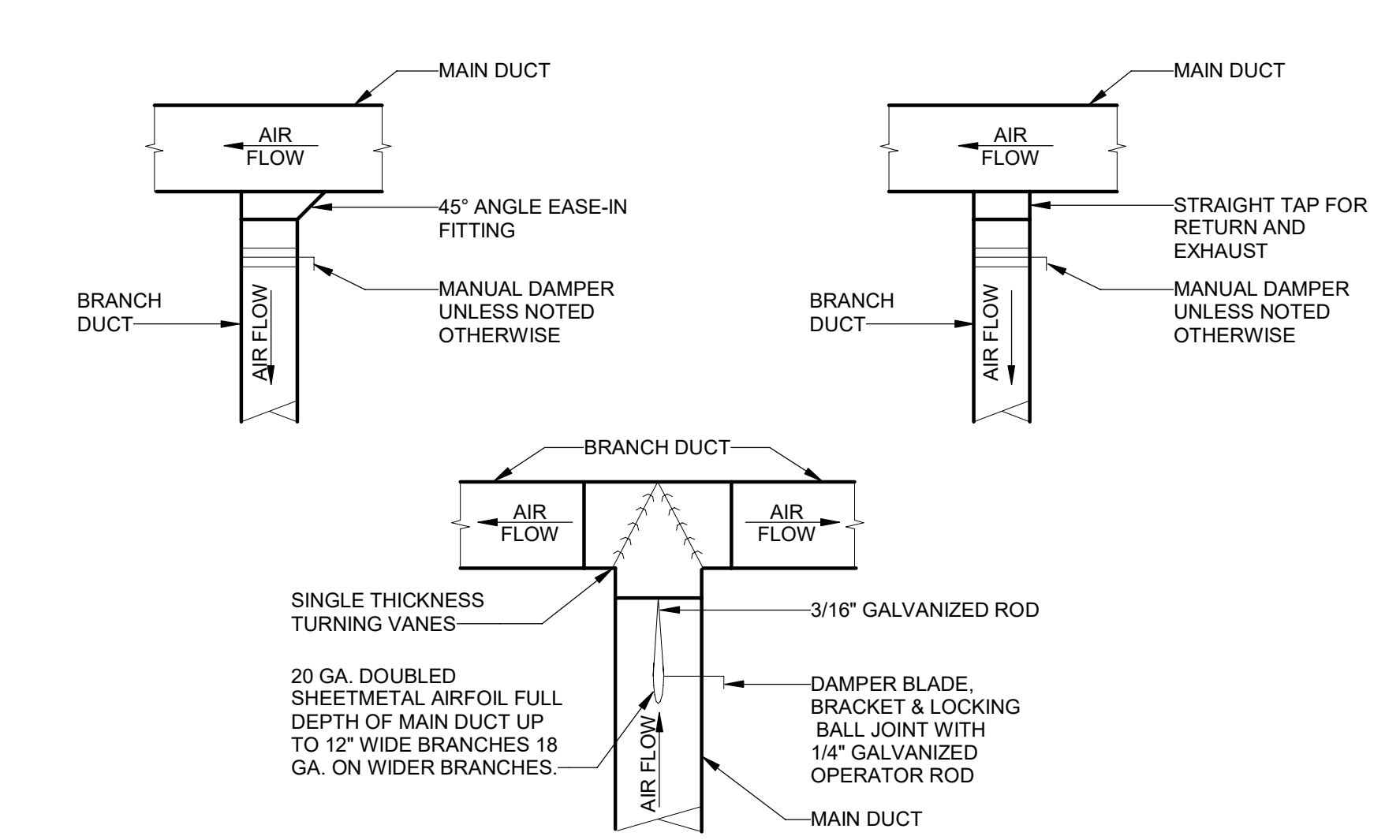
9 CONDENSATE DRAIN DETAIL FOR ROOFTOP A/C UNIT - SPLASH BLOCK
M0.6 NOT TO SCALE



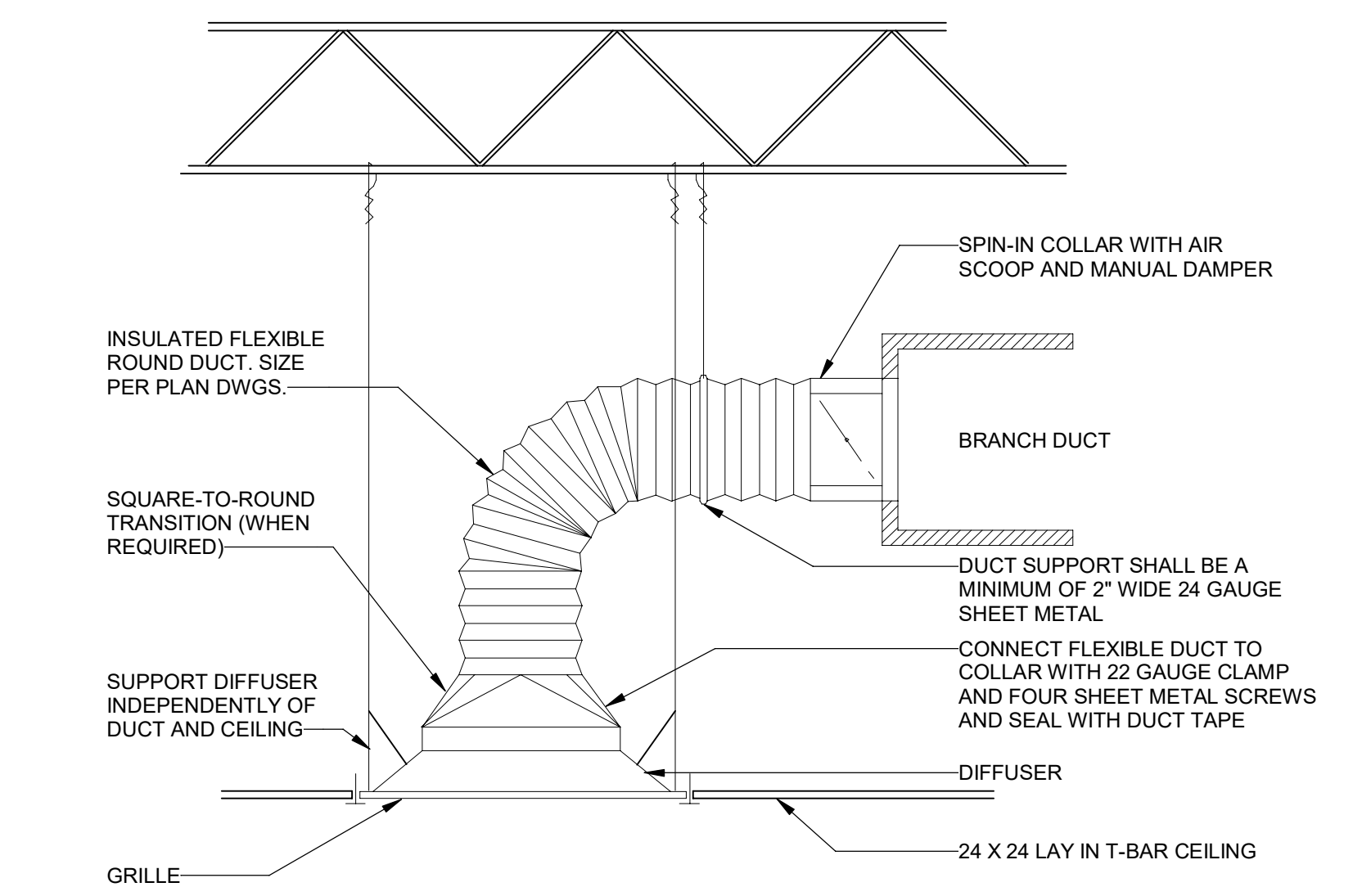
10 AIR CONDITIONING UNIT DETAIL
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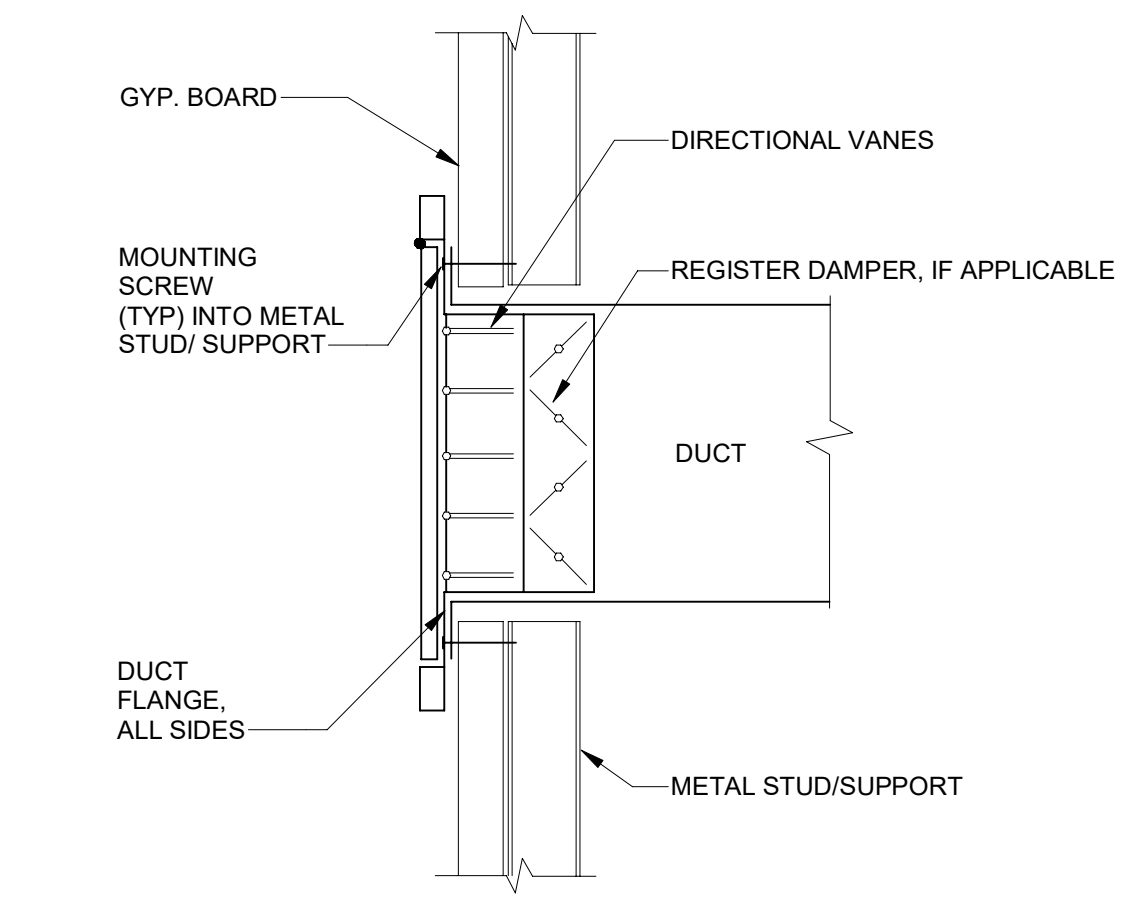
1 STATIONARY LOUVER DETAIL
 M0.7 NOT TO SCALE



2 DUCT CONNECTOR
 M0.7 NOT TO SCALE

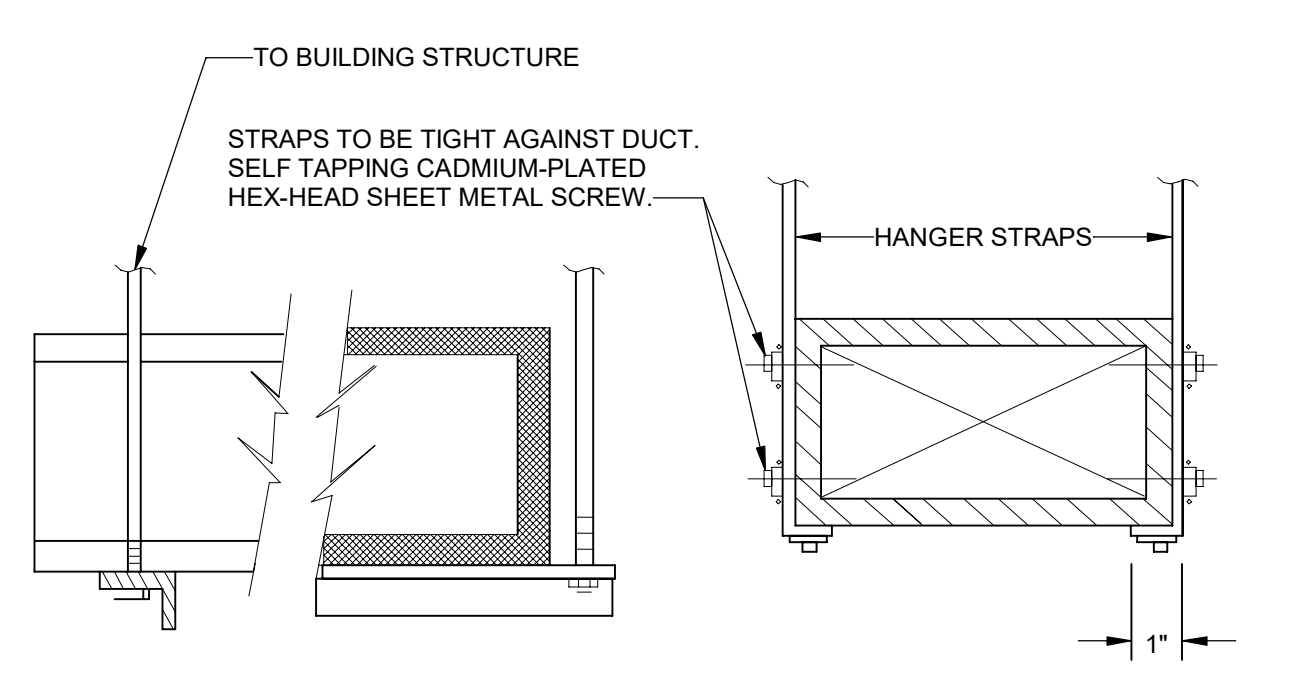


3 SUPPLY DIFFUSER INSTALLATION (FLEXIBLE DUCT)
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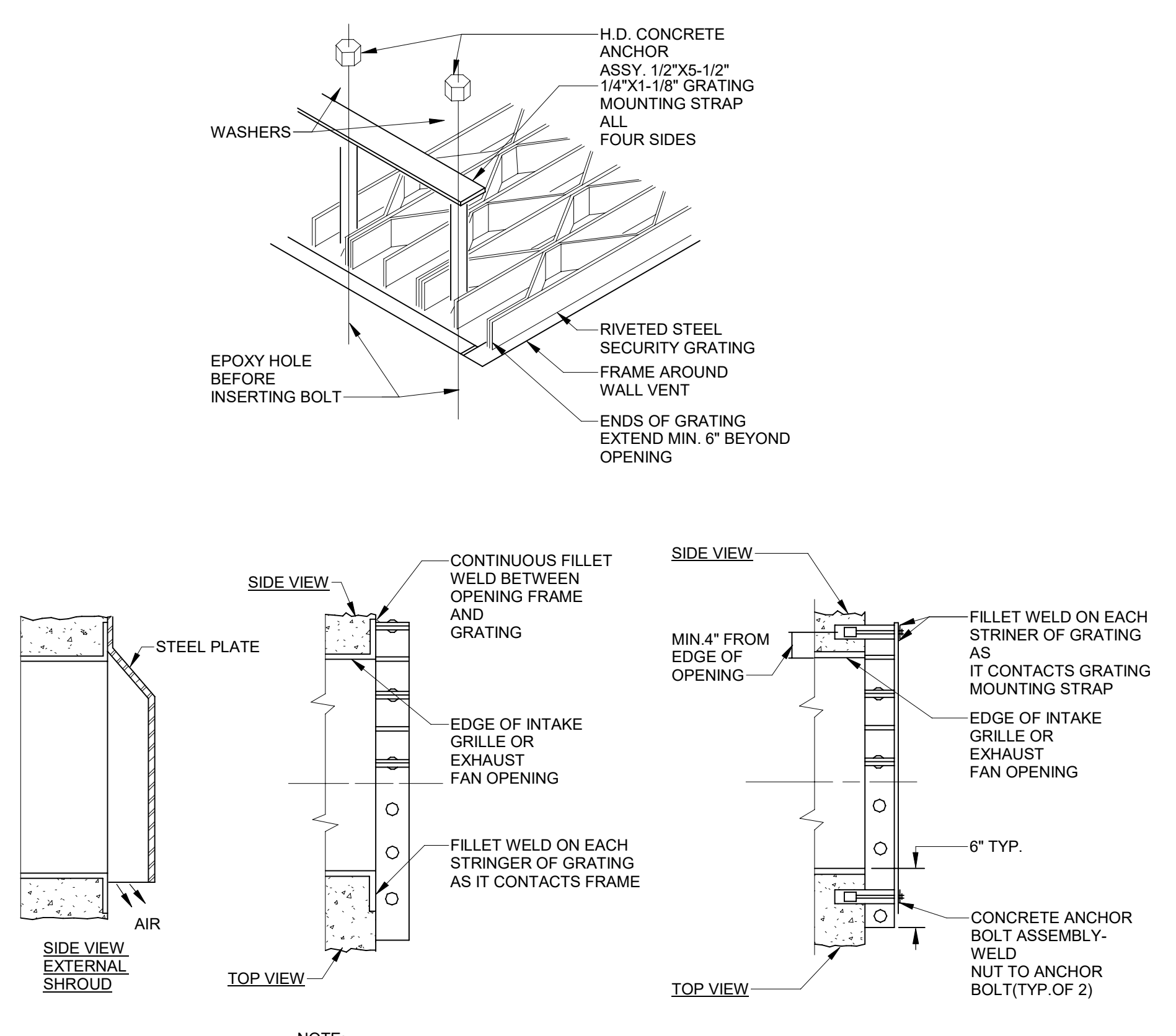
NOTE: SIDEWALL MOUNTING SHOWN, CEILING MOUNTING SIMILAR

4 GRILLE/REGISTER DUCT CONNECTION
 M0.7 NOT TO SCALE



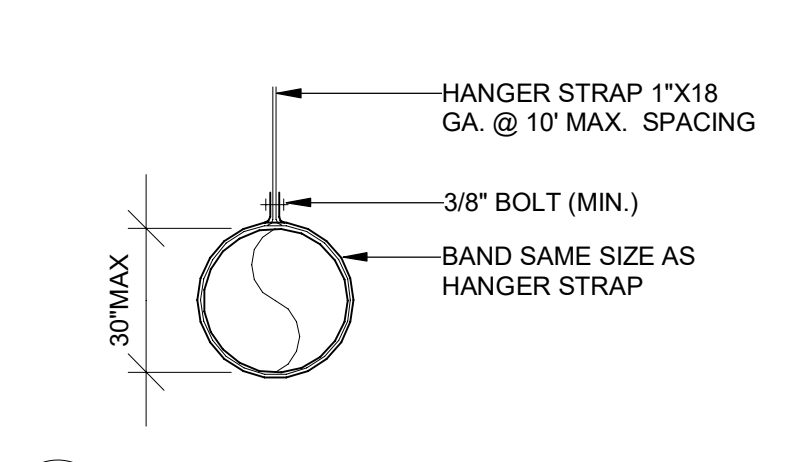
| HANGER SIZES FOR RECTANGULAR DUCTS | | | |
|------------------------------------|-----------------------|--------------------------|-----------------|
| MAX. SIDE | HANGER | SUPPORT ANGLE HORIZONTAL | SPACING MAXIMUM |
| 30" | 1" x 1/8" GAUGE STRAP | NONE REQUIRED | 10'-0" |
| 36" | 1/4" ROUND ROD | 1-1/2" x 1-1/2" x 1/8" | 8'-0" |
| 48" | 1/4" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |
| 60" | 5/16" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |
| 84" | 3/8" ROUND ROD | 2" x 2" x 1/8" | 8'-0" |

5 TYPICAL RECTANGULAR DUCT HANGER
 M0.7 NOT TO SCALE

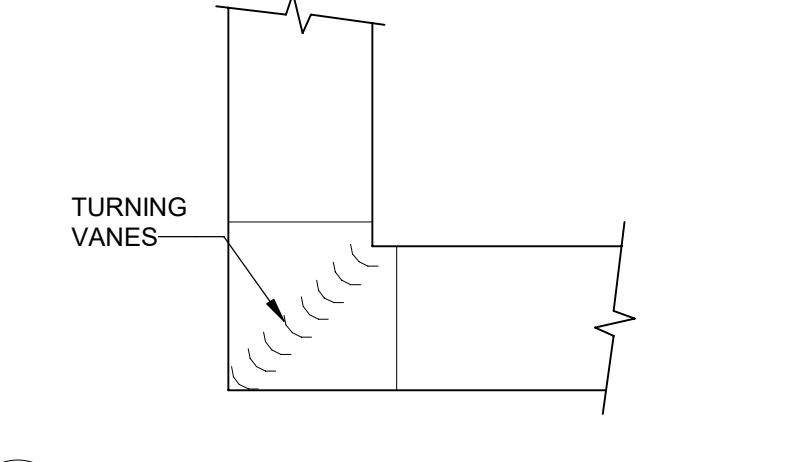


NOTE: GRATING WILL BE INSTALLED OUTSIDE SECURE SPACE AT EXHAUST FAN OPENING AND INSIDE SECURE SPACE AT INTAKE GRILL OPENING

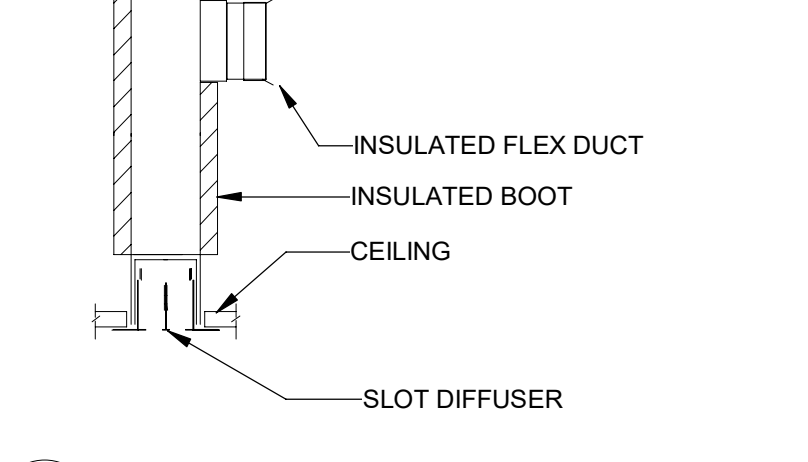
6 SECURITY GRATING
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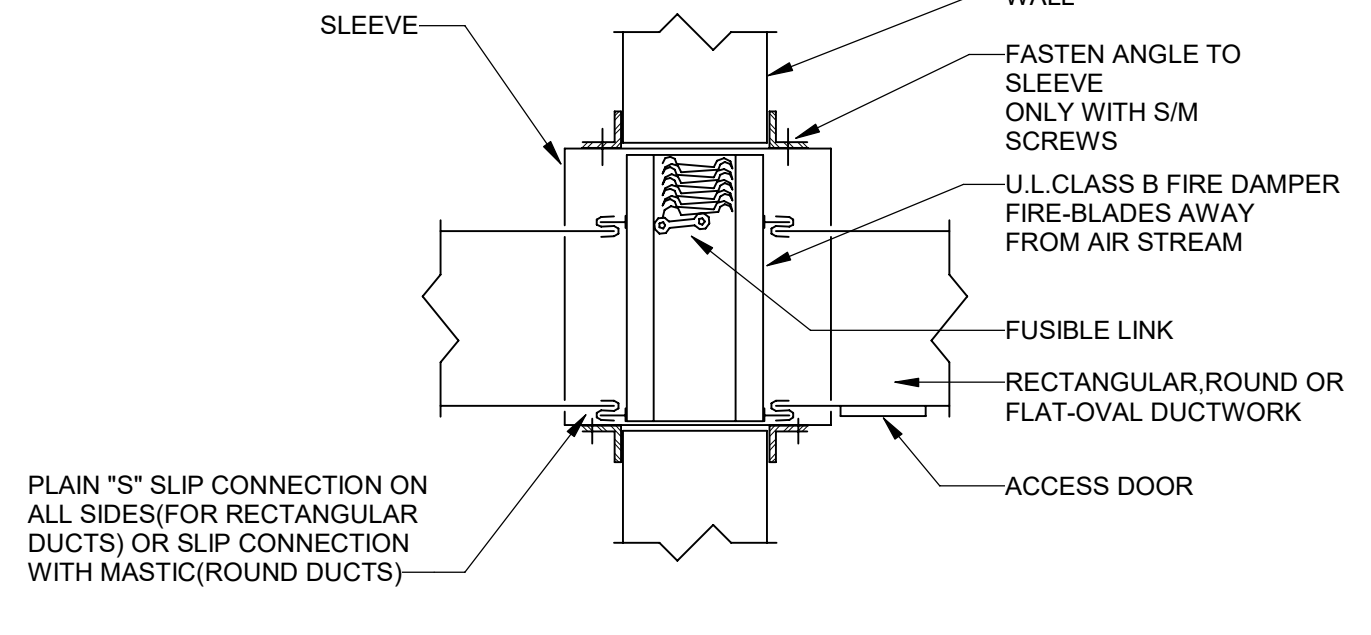
7 ROUND DUCT HANGER
 M0.7 NOT TO SCALE



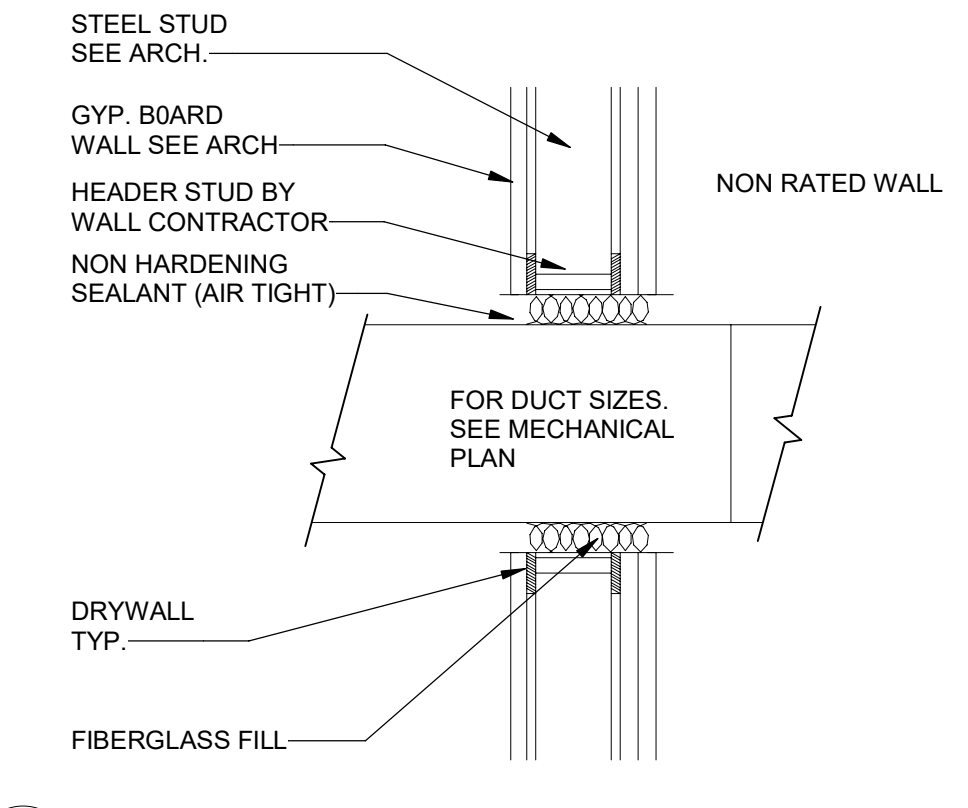
8 90 DEGREE ELBOW WITH TURNING VANES
 M0.7 NOT TO SCALE



9 SLOT DIFFUSER DETAIL
 M0.7 NOT TO SCALE



10 FIRE DAMPER DETAIL
 M0.7 NOT TO SCALE



11 DUCT PENETRATION OF WALL
 M0.7 NOT TO SCALE

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
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MECHANICAL DETAILS



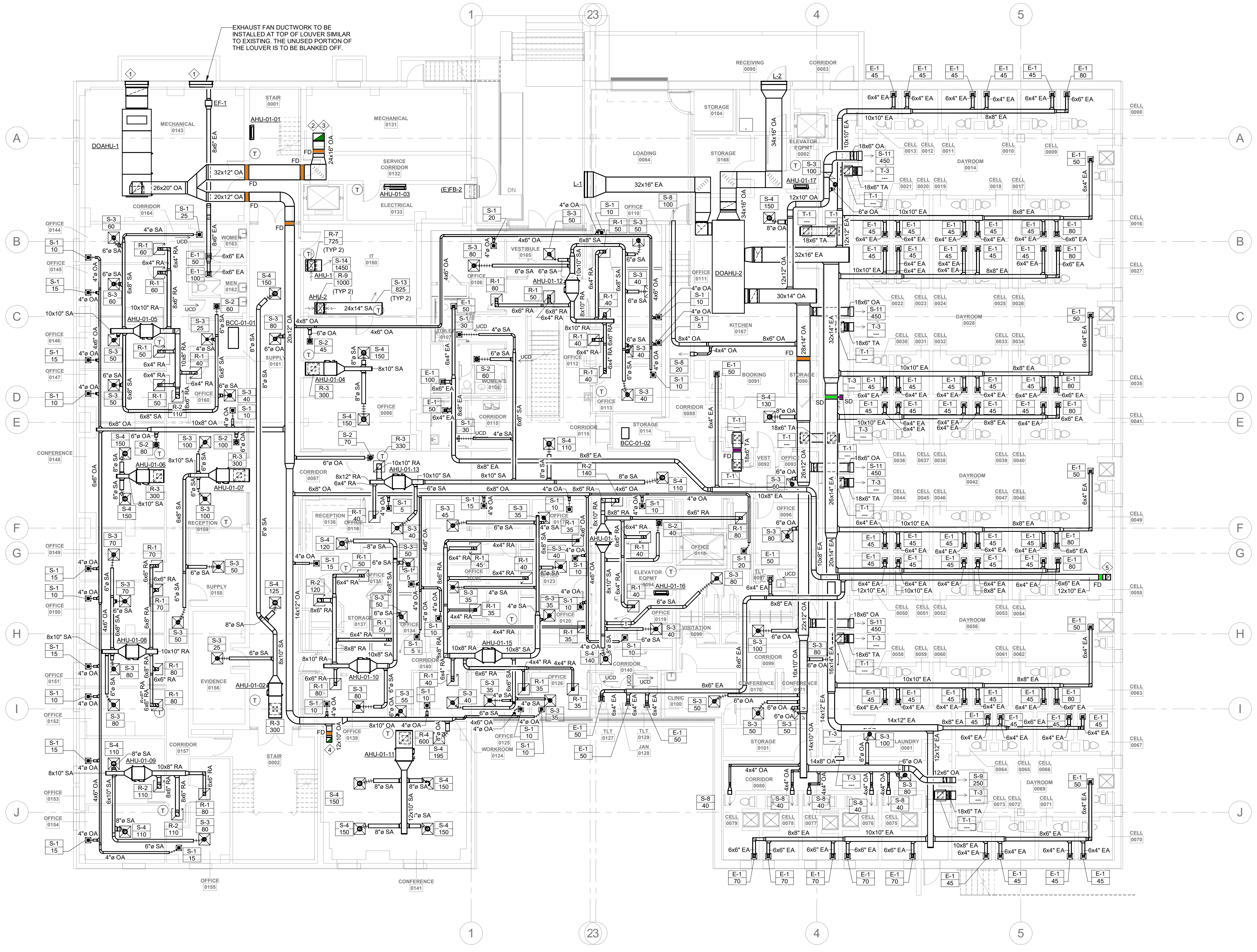
DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- EXISTING LOUVER TO REMAIN. CONTRACTOR TO VERIFY CONDITION AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY LOUVER IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW FOR EQUIPMENT.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- ROUTE 24"x16" OA DUCT UP THROUGH CHASE.
- ROUTE 12"x10" OA DUCT UP THROUGH CHASE.
- ROUTE 12"x10" EA DUCT UP THROUGH CHASE.



1 BASEMENT MECHANICAL PLAN
1/8" = 1'-0"
0 8 16 24

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

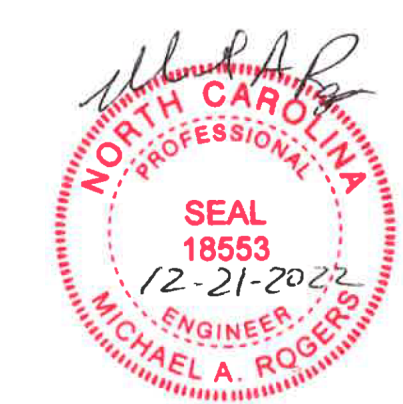
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DRAWING NAME
MECHANICAL BASEMENT PLAN

DRAWING NO.
M1.0

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GENERAL NOTES:

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- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 24"x16" OA DUCT FROM BASEMENT. TRANSITION TO 20"x16" AFTER TAP AND ROUTE UP TO SECOND FLOOR.
- 22"x10" OA DUCT FROM BASEMENT. TRANSITION TO 8"x8" AFTER TAP AND ROUTE UP TO SECOND FLOOR.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY E-2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY E-3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 12"x10" EA DUCT UP THROUGH CHASE FROM BASEMENT.
- 20"x12" EA DUCT UP THROUGH CHASE TO SECOND FLOOR.
- 16"x12" OA DUCT UP THROUGH CHASE TO SECOND FLOOR.

PROJECT NUMBER: 22175-03

CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

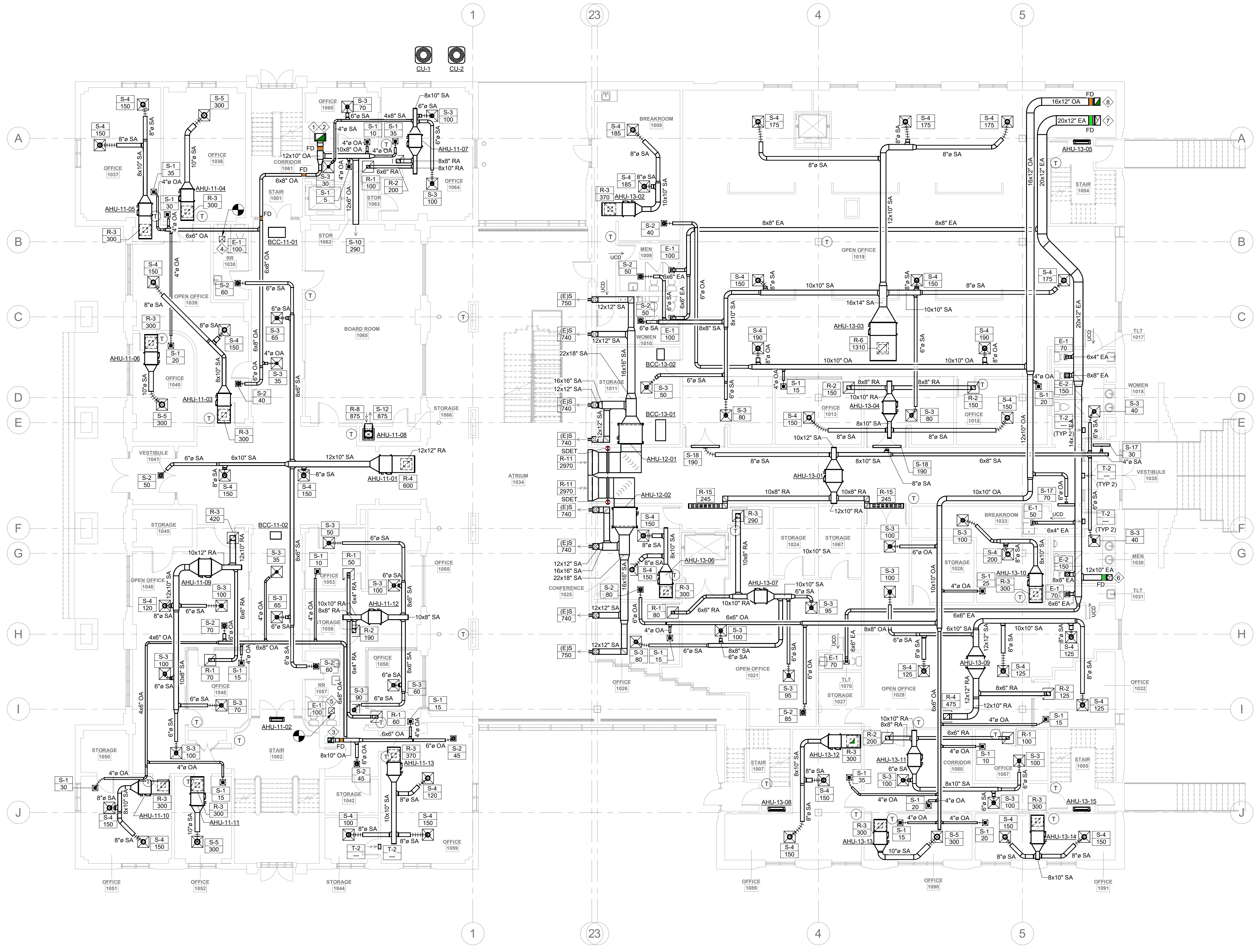
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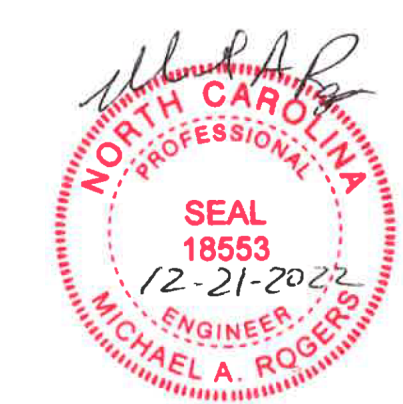
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DRAWING NAME
MECHANICAL 1ST FLOOR PLAN

DRAWING NO. **M1.1**
Drawn By: EBZ Checked By: MAR



1 1ST FLOOR MECHANICAL PLAN
M1.1
1/8" = 1'-0"

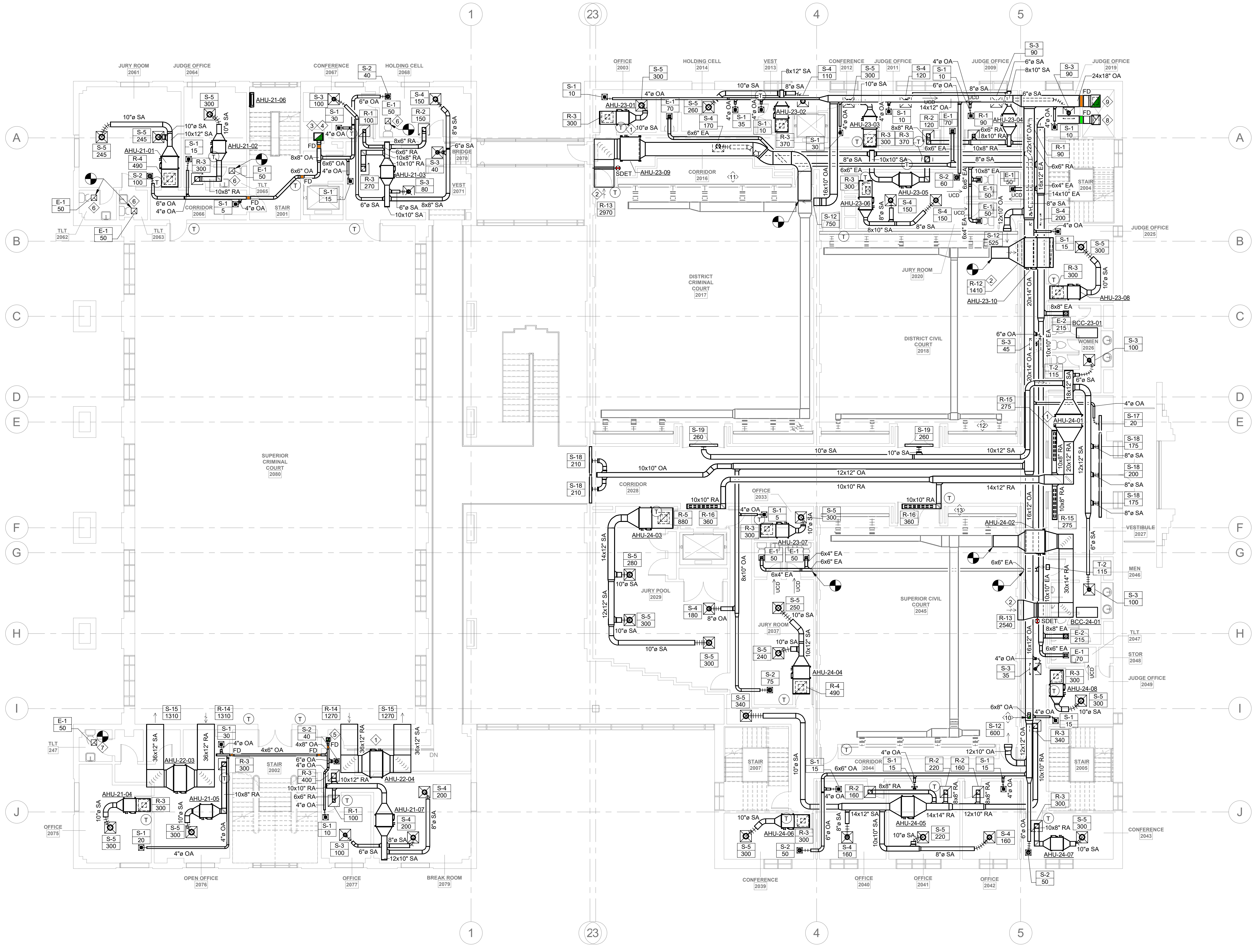


GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- PROVIDE ACCESS PANEL IN WALL ABOVE CEILING TO PROVIDE PROPER CLEARANCE FOR UNITS ELECTRICAL CONNECTIONS.
- RETURN GRILLE TO BE MOUNTED ABOVE CEILING IN COURT ROOM.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 20"x16" OA DUCT FROM FIRST FLOOR. TRANSITION TO 18"x16" AFTER TAP AND ROUTE UP TO THIRD FLOOR.
- 8"x8" OA DUCT FROM FIRST FLOOR. TRANSITION TO 6"x6" AFTER TAP AND ROUTE UP TO THIRD FLOOR.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE-2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE-3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 20"x18" EA DUCT DOWN FROM MECHANICAL MEZZANINE. TRANSITION TO 20"x12" AFTER TAP AND ROUTE DOWN TO FIRST FLOOR.
- 26"x20" OA DUCT DOWN FROM MECHANICAL MEZZANINE. TRANSITION TO 16"x12" AFTER TAP AND ROUTE DOWN TO FIRST FLOOR.
- ROUTE 6"x8" OA DUCT UP TO JUST BELOW ROOF TO PROVIDE OUTSIDE AIR TO RECORDS 3026 ON THIRD FLOOR MEZZANINE.
- BALANCE AT 51 CFM/F. (TYP 3).
- BALANCE AT 24 CFM/F. (TYP 3).
- BALANCE AT 50 CFM/F. (TYP 3).



1 2ND FLOOR MECHANICAL PLAN
 1/8" = 1'-0"
 0 8' 16' 24'

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

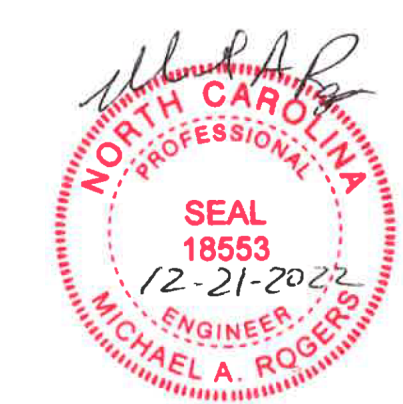
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| NO. | DATE | DESCRIPTION |
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DRAWING NAME
MECHANICAL 2ND FLOOR PLAN

DRAWING NO. **M1.2**
 Drawn By: EBZ Checked By: MAR



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 Devita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST SUPPLY AND RETURN AIR SECTIONS.

PLAN NOTES:

- CONNECT DUCTWORK TO EXISTING WOODEN LOUVER. BLANK OFF MIDDLE SECTION OF LOUVER TO SEPARATE SUPPLY AND RETURN AIR SECTIONS.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 18"x16" OA DUCT UP FROM CHASE.
- 6"x6" OA DUCT UP FROM CHASE.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE.2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE.3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 20"x18" EA DUCT DOWN THROUGH CHASE. INSTALL FIRE DAMPER IN DUCTWORK AT LID OF CHASE.
- 26"x20" OA DUCT DOWN THROUGH CHASE. INSTALL FIRE DAMPER IN DUCTWORK AT LID OF CHASE.
- EXISTING LOUVER TO REMAIN. CONTRACTOR TO VERIFY CONDITION AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY LOUVER IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW FOR EQUIPMENT.
- 8"x6" OA DUCT DOWN TO SECOND FLOOR PLAN.
- REWORK OR RELOCATE EXISTING EQUIPMENT, PIPING, AND OTHER ITEMS ALONG WALL TO ACCOMMODATE INSTALLATION OF NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
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REVISIONS

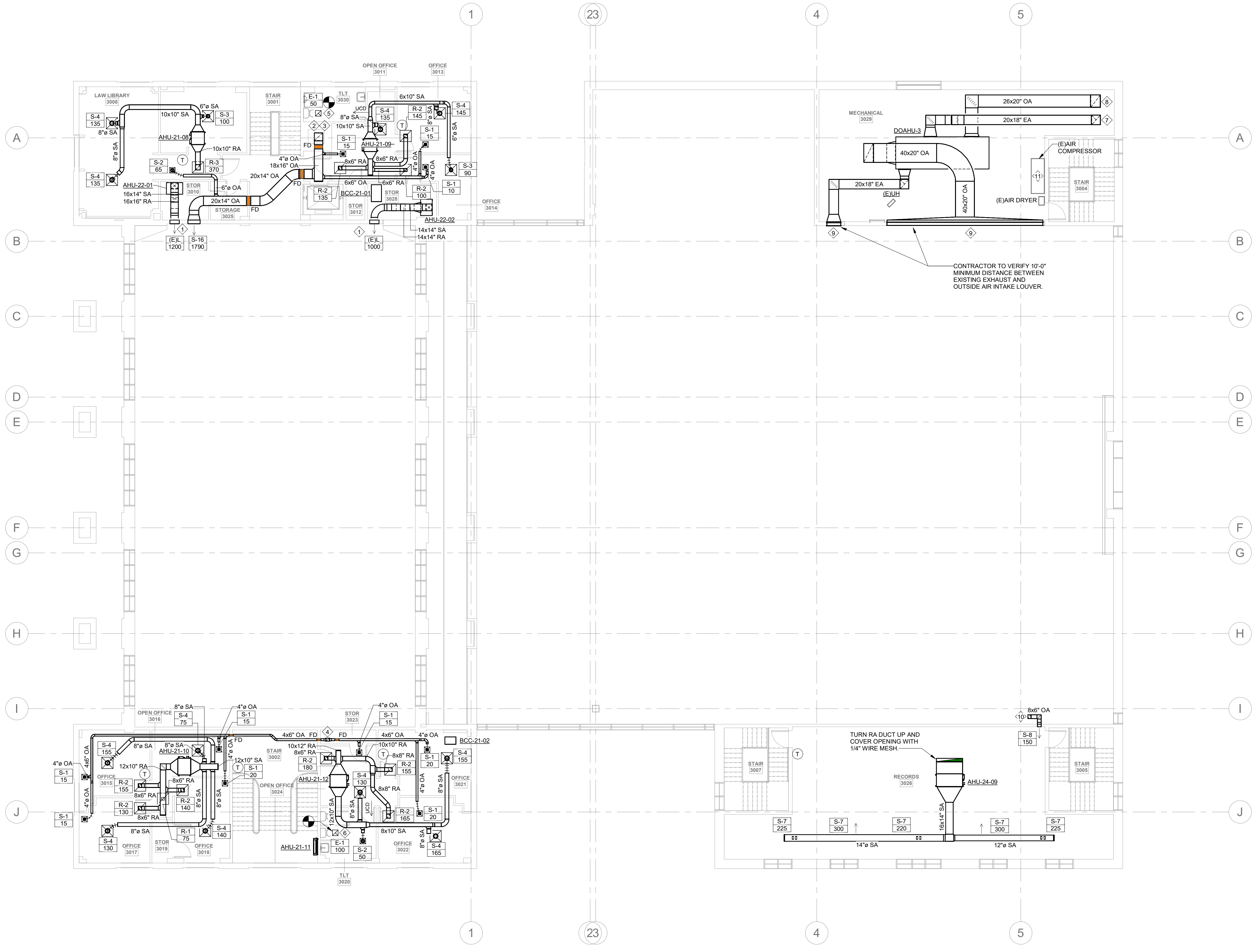
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DRAWING NAME
MECHANICAL 3RD FLOOR AND MEZZANINE PLAN

DRAWING NO.
M1.3

Drawn By: EBZ Checked By: MAR



1 3RD FLOOR MECHANICAL PLAN
 1/8" = 1'-0"
 0 8 16 24



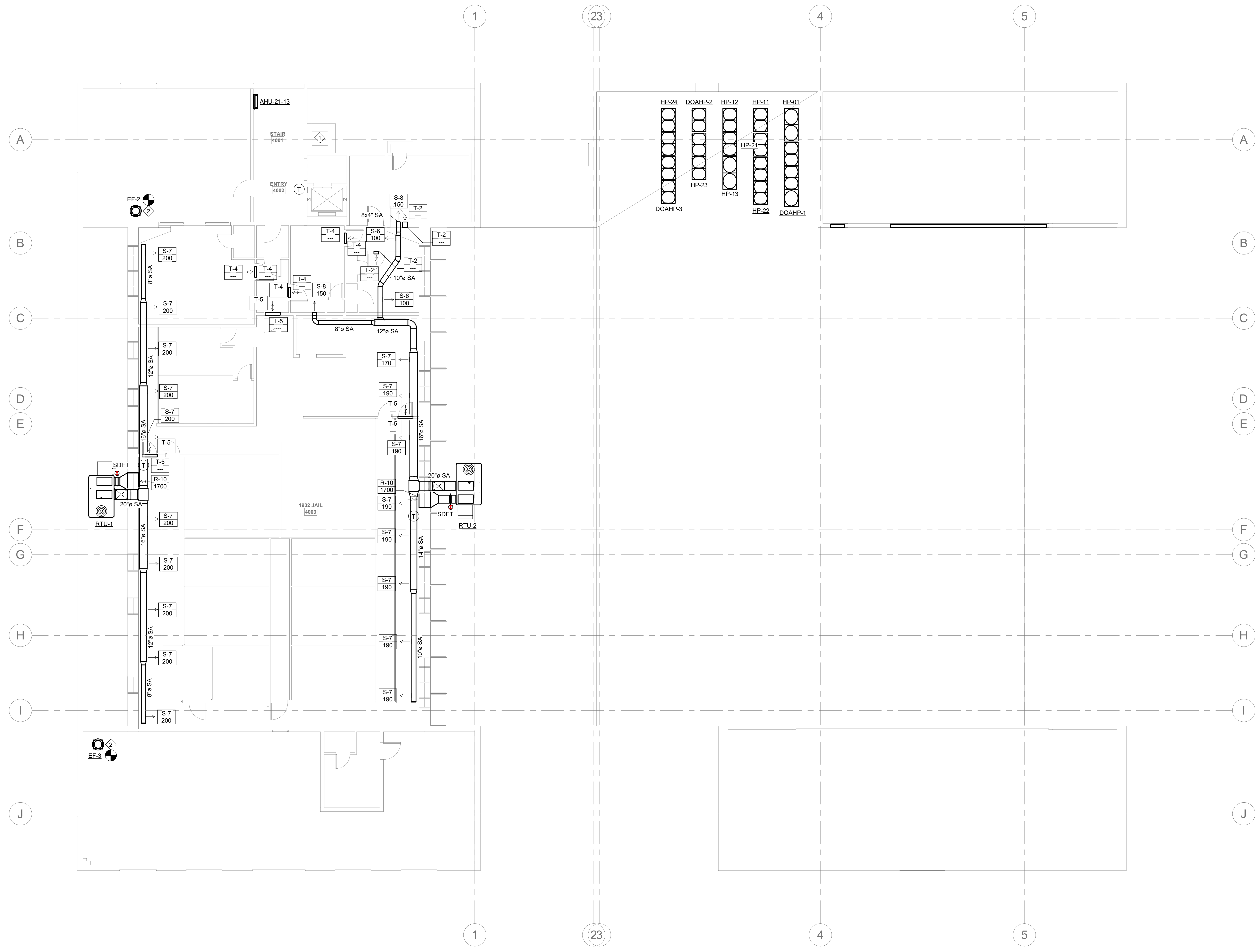
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 Devita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- EXHAUST FAN TO BE INSTALLED AT EXISTING RESTROOM GRAVITY VENT LOCATION AND CONNECT TO EXISTING EXHAUST SYSTEM. CONTRACTOR TO VERIFY CONDITION OF EXISTING EXHAUST AIR DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON FAN SCHEDULE. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.



PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
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DRAWING NAME
MECHANICAL 4TH FLOOR AND ROOF PLAN

DRAWING NO.
M1.4

Drawn By: EBZ Checked By: MAR

1 4TH FLOOR MECHANICAL PLAN
 M1.4
 1/8" = 1'-0"
 0 8' 16' 24'

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 1 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EJAHU-3-1982 AND MAKE UP AIR FAN (EJFB-3-1982 CURRENTLY SERVING THE KITCHEN (NOT IN USE).
2. INSTALL DOAHP-2-2022 ON THE ROOF. WILL REQUIRE NEW SUPPORT STRUCTURE.
3. INSTALL NEW DOAHP-2-2022 TO SERVE THE BASEMENT JAIL SPACE IS TO BE 100% OUTSIDE AIR.
4. REPLACE EXISTING AIR INTAKE LOUVERS WITH INTAKE AND EXHAUST AIR LOUVERS AS DIRECTED.
5. ROUTE NEW SUPPLY AIR AND EXHAUST AIR DUCTWORK TO SERVE THE JAIL BAYS.
6. REPLACE THE CELL CEILING GRILLS AND DAYROOM SUPPLY GRILLS WITH ANTI-LIGATURE SECURITY GRILLS.
7. DEMO AND REMOVE GREASE DUCT FOR KITCHEN HOOD UP TO 1ST FLOOR PENETRATION. NOTE THAT THE DUCT ABOVE MAY HAVE GREASE. LIQUID TIGHT TEMPORARY CAP AT BOTTOM OF DUCT IS REQUIRED.
8. ACCESS TO WORK WITHIN THE JAIL SPACE MUST BE COORDINATED WITH THE OWNER TO ENSURE SAFETY.
9. REWORK OR RELOCATE EXISTING EQUIPMENT, PIPING, AND OTHER ITEMS ALONG WALL TO ACCOMMODATE INSTALLATION OF NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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PROJECT INFORMATION:

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130 S QUEEN ST,
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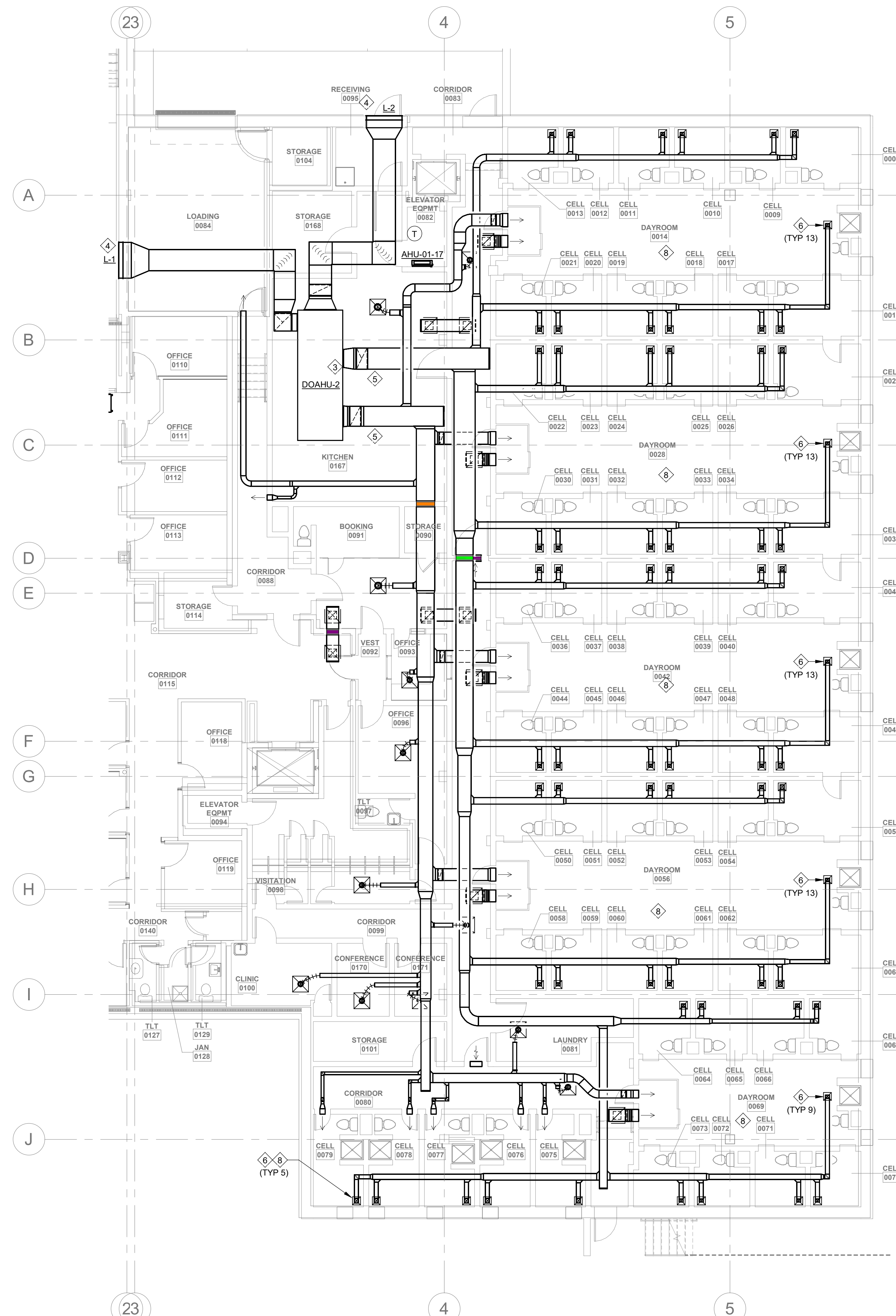
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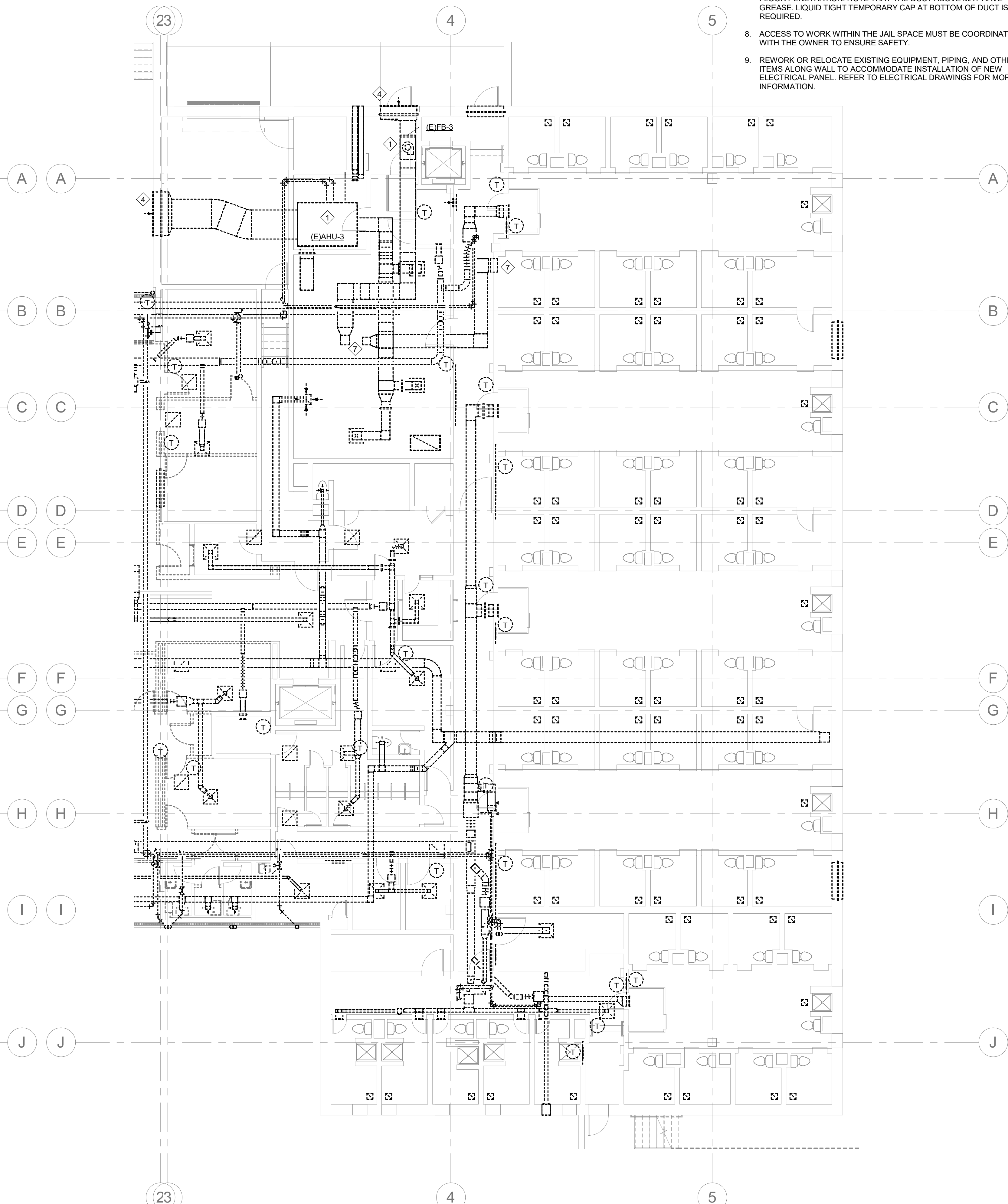
DRAWING NAME
PHASE 1 MECHANICAL BASEMENT PLANS

DRAWING NO.
M-PH1.0

Drawn By: EBZ Checked By: MAR



1 PHASE 1 BASEMENT MECHANICAL PLAN
 M-PH1.0 1/8" = 1'-0"
 0 8' 16' 24'



2 PHASE 1 BASEMENT DEMO PLAN
 M-PH1.0 1/8" = 1'-0"
 0 8' 16' 24'

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 1 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-3-1982 AND MAKE UP AIR FAN (E/FB-3-1982 CURRENTLY SERVING THE KITCHEN (NOT IN USE).
2. INSTALL DOAHP-2-2022 ON THE ROOF. WILL REQUIRE NEW SUPPORT STRUCTURE.
3. INSTALL NEW DOAHP-2-2022 TO SERVE THE BASEMENT JAIL. SPACE IS TO BE 100% OUTSIDE AIR.
4. REPLACE EXISTING AIR INTAKE LOUVERS WITH INTAKE AND EXHAUST AIR LOUVERS AS DIRECTED.
5. ROUTE NEW SUPPLY AIR AND EXHAUST AIR DUCTWORK TO SERVE THE JAIL BAYS.
6. REPLACE THE CELL CEILING GRILLS AND DAYROOM SUPPLY GRILLS WITH ANTI-LIGATURE SECURITY GRILLS.
7. DEMO AND REMOVE GREASE DUCT FOR KITCHEN HOOD UP TO 1" FLOOR PENETRATION. NOTE THAT THE DUCT ABOVE MAY HAVE GREASE. LIQUID TIGHT TEMPORARY CAP AT BOTTOM OF DUCT IS REQUIRED.
8. ACCESS TO WORK WITHIN THE JAIL SPACE MUST BE COORDINATED WITH THE OWNER TO ENSURE SAFETY.
9. REWORK OR RELOCATE EXISTING EQUIPMENT, PIPING, AND OTHER ITEMS ALONG WALL TO ACCOMMODATE INSTALLATION OF NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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 NC Firm License # C-0819

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

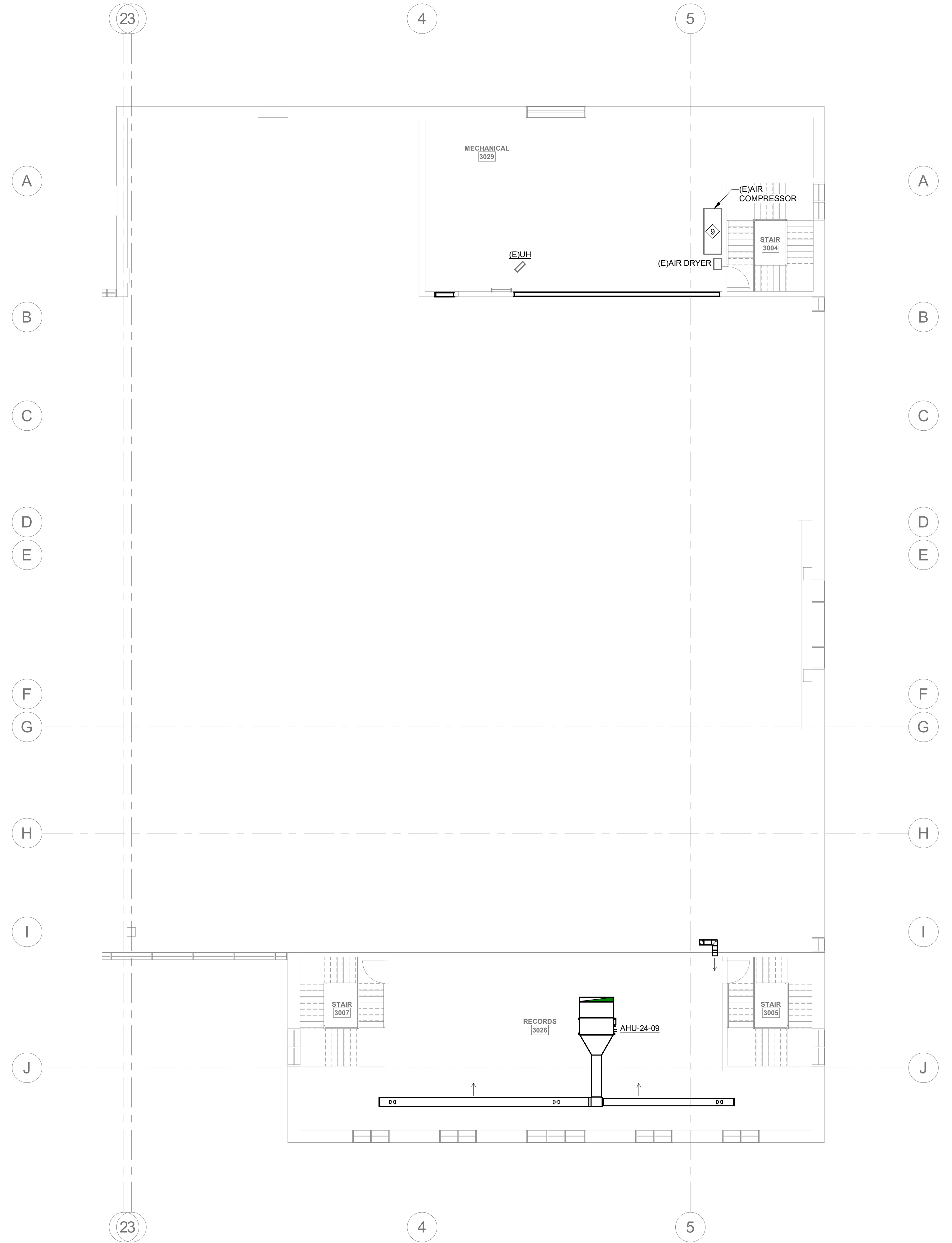
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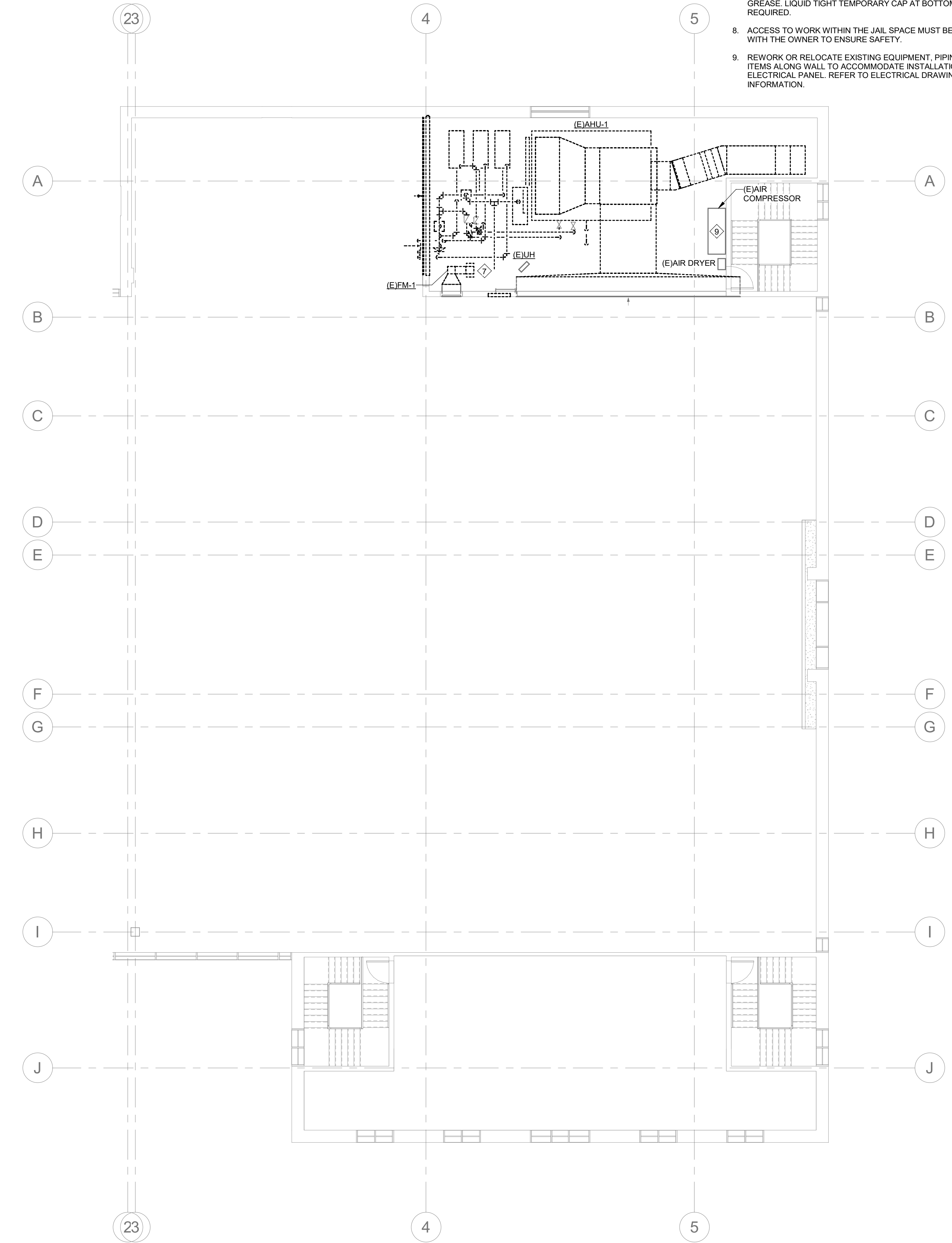
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DRAWING NAME
PHASE 1 MECHANICAL 3RD FLOOR AND MEZZANINE PLANS

DRAWING NO.
M-PH1.3
 Drawn By: EBZ Checked By: MAR



1 PHASE 1 3RD FLOOR MECHANICAL PLAN
 M-PH1.3 1/8" = 1'-0"
 0 8 16 24



2 PHASE 1 3RD FLOOR DEMO PLAN
 M-PH1.3 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 1 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EJAHU-3-1982 AND MAKE UP AIR FAN (EJFB-3-1982 CURRENTLY SERVING THE KITCHEN (NOT IN USE).
2. INSTALL DOAHP-2-2022 ON THE ROOF. WILL REQUIRE NEW SUPPORT STRUCTURE.
3. INSTALL NEW DOAHP-2-2022 TO SERVE THE BASEMENT JAIL SPACE IS TO BE 100% OUTSIDE AIR.
4. REPLACE EXISTING AIR INTAKE LOUVERS WITH INTAKE AND EXHAUST AIR LOUVERS AS DIRECTED.
5. ROUTE NEW SUPPLY AIR AND EXHAUST AIR DUCTWORK TO SERVE THE JAIL BAYS.
6. REPLACE THE CELL CEILING GRILLS AND DAYROOM SUPPLY GRILLS WITH ANTI-LIGATURE SECURITY GRILLS.
7. DEMO AND REMOVE GREASE DUCT FOR KITCHEN HOOD UP TO 1' FLOOR PENETRATION. NOTE THAT THE DUCT ABOVE MAY HAVE GREASE. LIQUID TIGHT TEMPORARY CAP AT BOTTOM OF DUCT IS REQUIRED.
8. ACCESS TO WORK WITHIN THE JAIL SPACE MUST BE COORDINATED WITH THE OWNER TO ENSURE SAFETY.
9. REWORK OR RELOCATE EXISTING EQUIPMENT, PIPING, AND OTHER ITEMS ALONG WALL TO ACCOMMODATE INSTALLATION OF NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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PROJECT NUMBER: 22175-03
 CONSULTANT:

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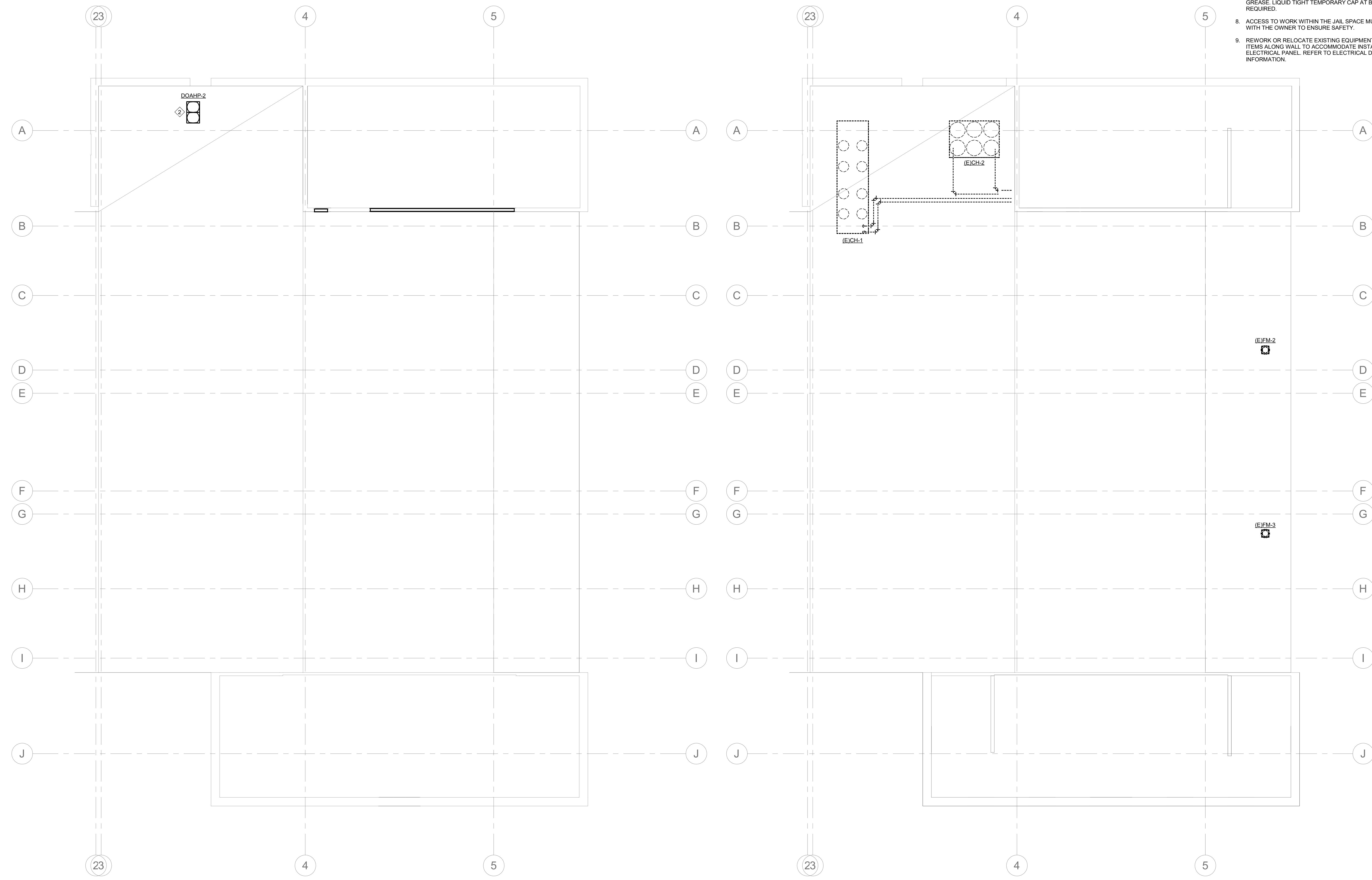
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DRAWING NAME
PHASE 1 MECHANICAL 4TH FLOOR AND ROOF PLANS

DRAWING NO.
M-PH1.4
 Drawn By: EBZ Checked By: MAR



1 PHASE 1 ROOF MECHANICAL PLAN
 M-PH1.4 1/8" = 1'-0"
 0 8 16 24

2 PHASE 1 ROOF DEMO PLAN
 M-PH1.4 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EAHU-2-1982 AND EXHAUST FAN (EJFB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E)CH-2-1982. ((E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED)
3. INSTALL DOAHP-1-2022, HP-01-2022, HP-11-2022, HP-21-2022, AND HP-22-2022 ON THE ROOF.
4. INSTALL NEW DOAHU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
5. INSTALL NEW OA DUCTS SERVING THE BASEMENT AND UP IN SHAFTS TO SERVE UPPER FLOORS.
6. INSTALL NEW VRF SYSTEM SERVING THE 1932 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE SUPERIOR CRIMINAL COURT, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
7. DEMOLISH AND REMOVE EXISTING ROOFTOP UNITS SERVING THE 1932 JAIL.
8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.



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CONSULTANT:

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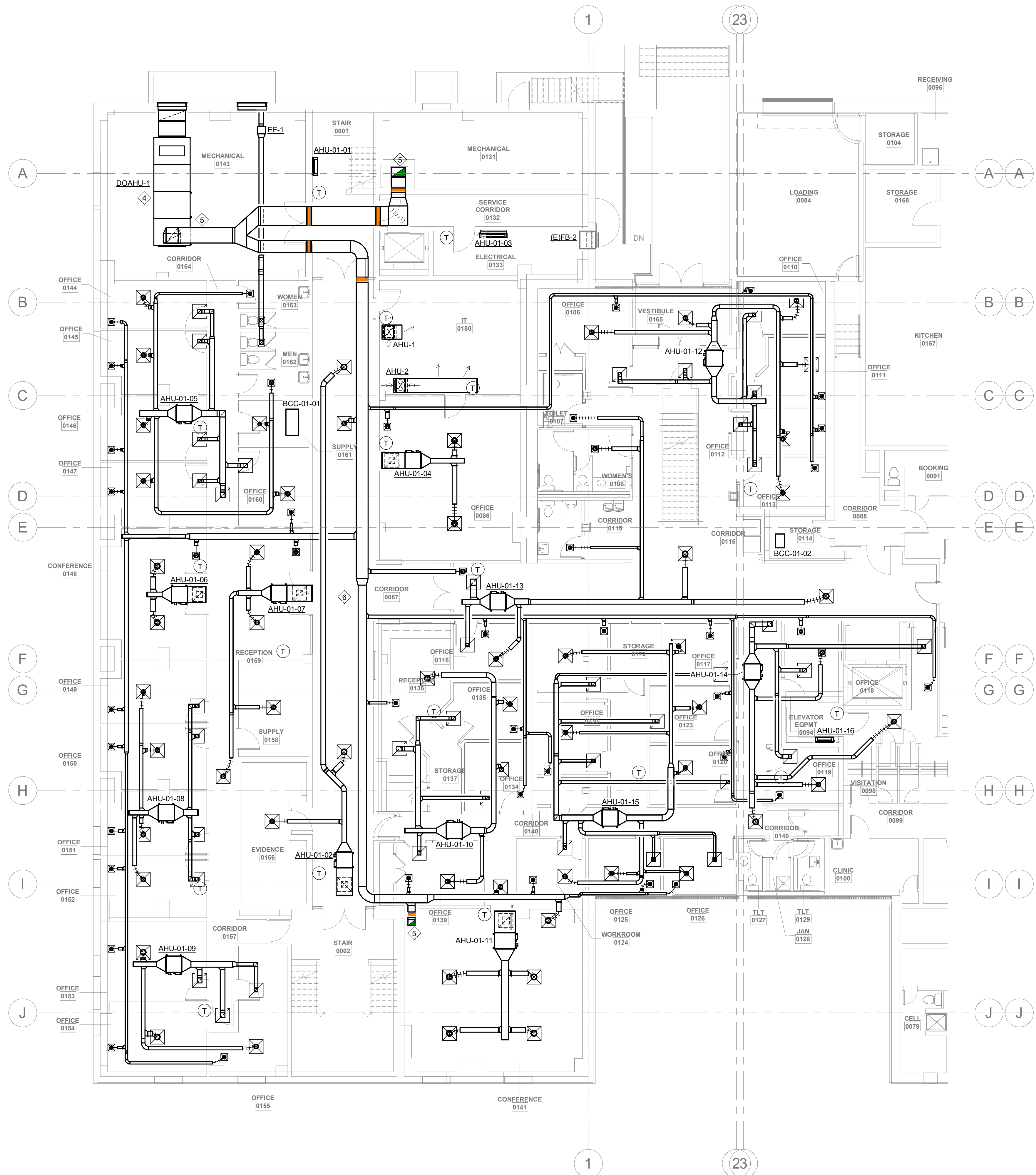
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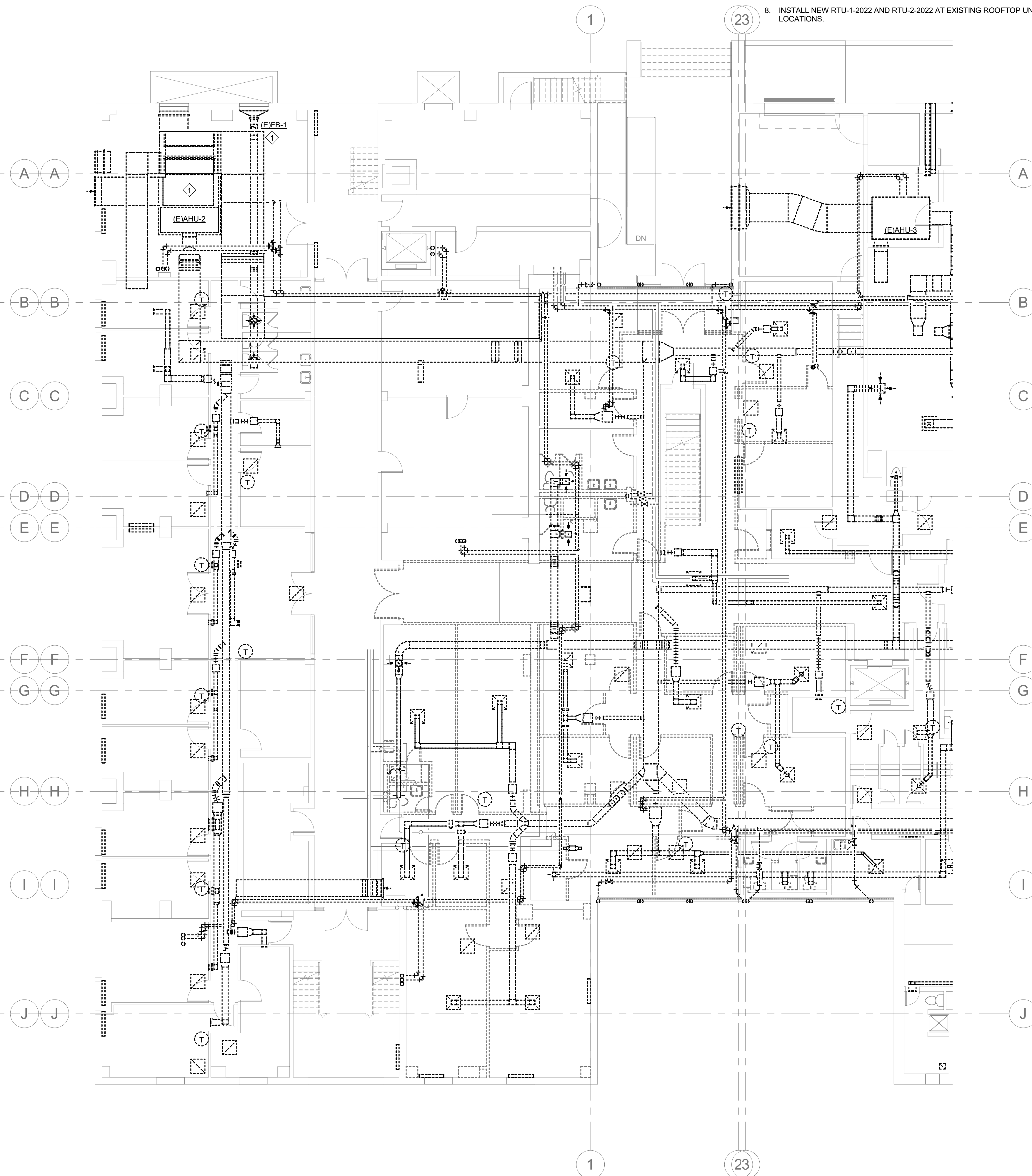
DRAWING NAME
PHASE 2 MECHANICAL BASEMENT PLANS

DRAWING NO.
M-PH2.0

Drawn By: EBZ Checked By: MAR



1 PHASE 2 BASEMENT MECHANICAL PLAN
M-PH2.0 1/8" = 1'-0"



2 PHASE 2 BASEMENT DEMO PLAN
M-PH2.0 1/8" = 1'-0"

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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-2-1982 AND EXHAUST FAN (E/FB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E)CH-2-1982. ((E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED)
3. INSTALL DOAHP-1-2022, HP-01-2022, HP-11-2022, HP-21-2022, AND HP-22-2022 ON THE ROOF.
4. INSTALL NEW DOAHU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
5. INSTALL NEW OA DUCTS SERVING THE BASEMENT AND UP IN SHAFTS TO SERVE UPPER FLOORS.
6. INSTALL NEW VRF SYSTEM SERVING THE 1932 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE SUPERIOR CRIMINAL COURT, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
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8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.



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PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

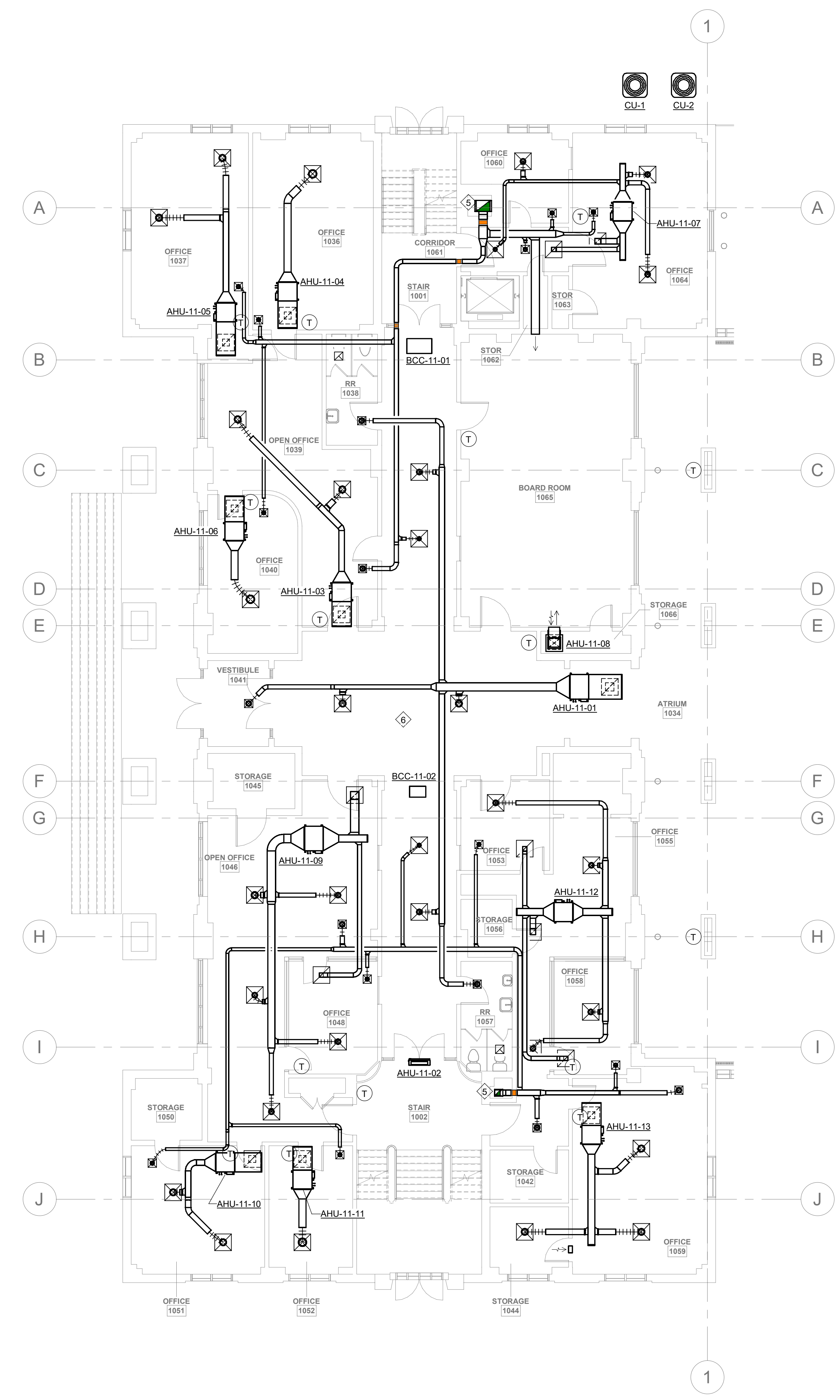
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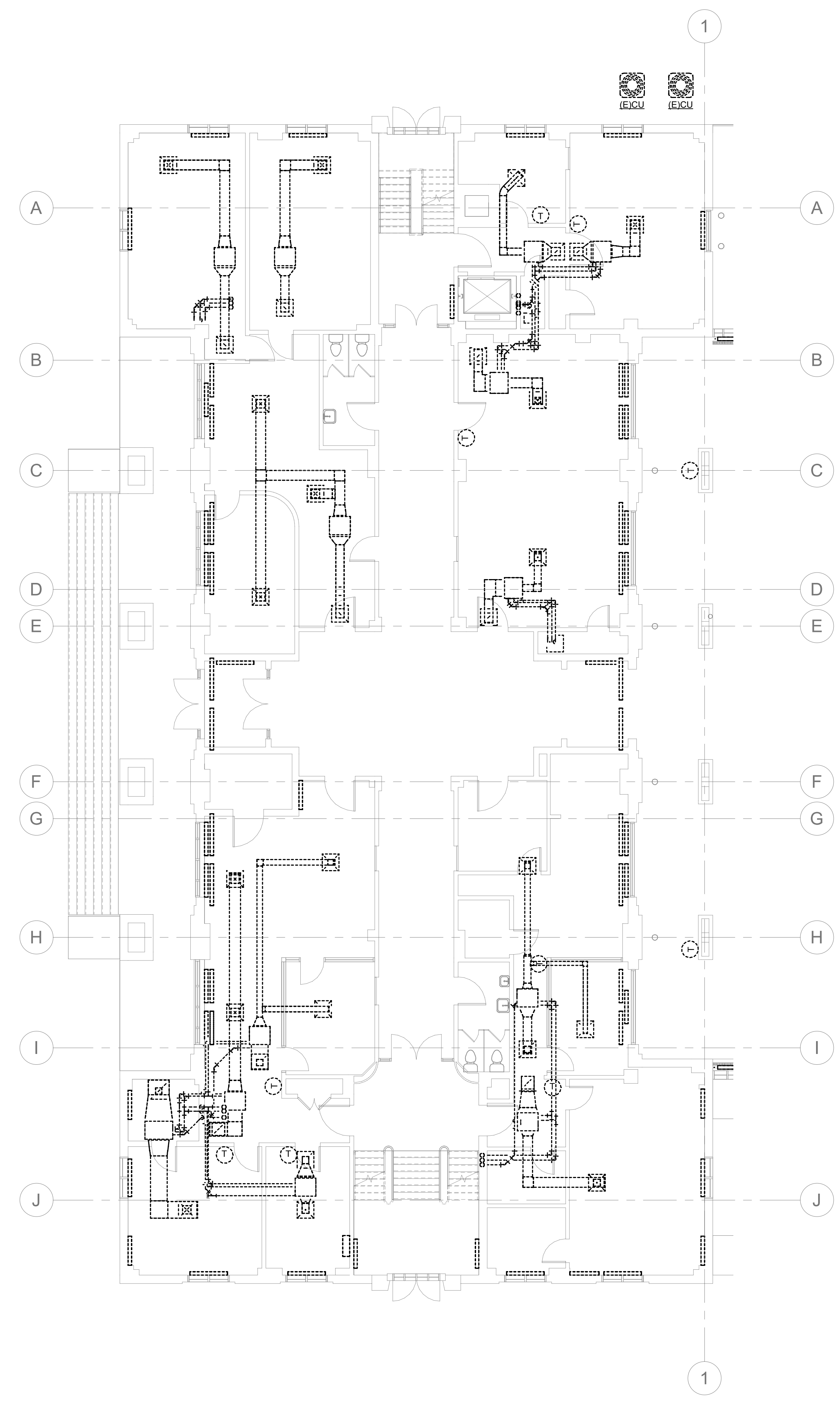
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DRAWING NAME
 PHASE 2 MECHANICAL
 1ST FLOOR PLANS

DRAWING NO.
M-PH2.1
 Drawn By: EBZ Checked By: MAR



1 PHASE 2 1ST FLOOR MECHANICAL PLAN
 M-PH2.1 1/8" = 1'-0"
 0 8 16 24



2 PHASE 2 1ST FLOOR DEMO PLAN
 M-PH2.1 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E)AHU-2-1982 AND EXHAUST FAN (E)FB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E)CH-2-1982. ((E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED)
3. INSTALL DOAHP-1-2022, HP-01-2022, HP-11-2022, HP-21-2022, AND HP-22-2022 ON THE ROOF.
4. INSTALL NEW DOAHU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
5. INSTALL NEW OA DUCTS SERVING THE BASEMENT AND UP IN SHAFTS TO SERVE UPPER FLOORS.
6. INSTALL NEW VRF SYSTEM SERVING THE 1932 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE SUPERIOR CRIMINAL COURT, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
7. DEMOLISH AND REMOVE EXISTING ROOFTOP UNITS SERVING THE 1932 JAIL.
8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.



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 DeVita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

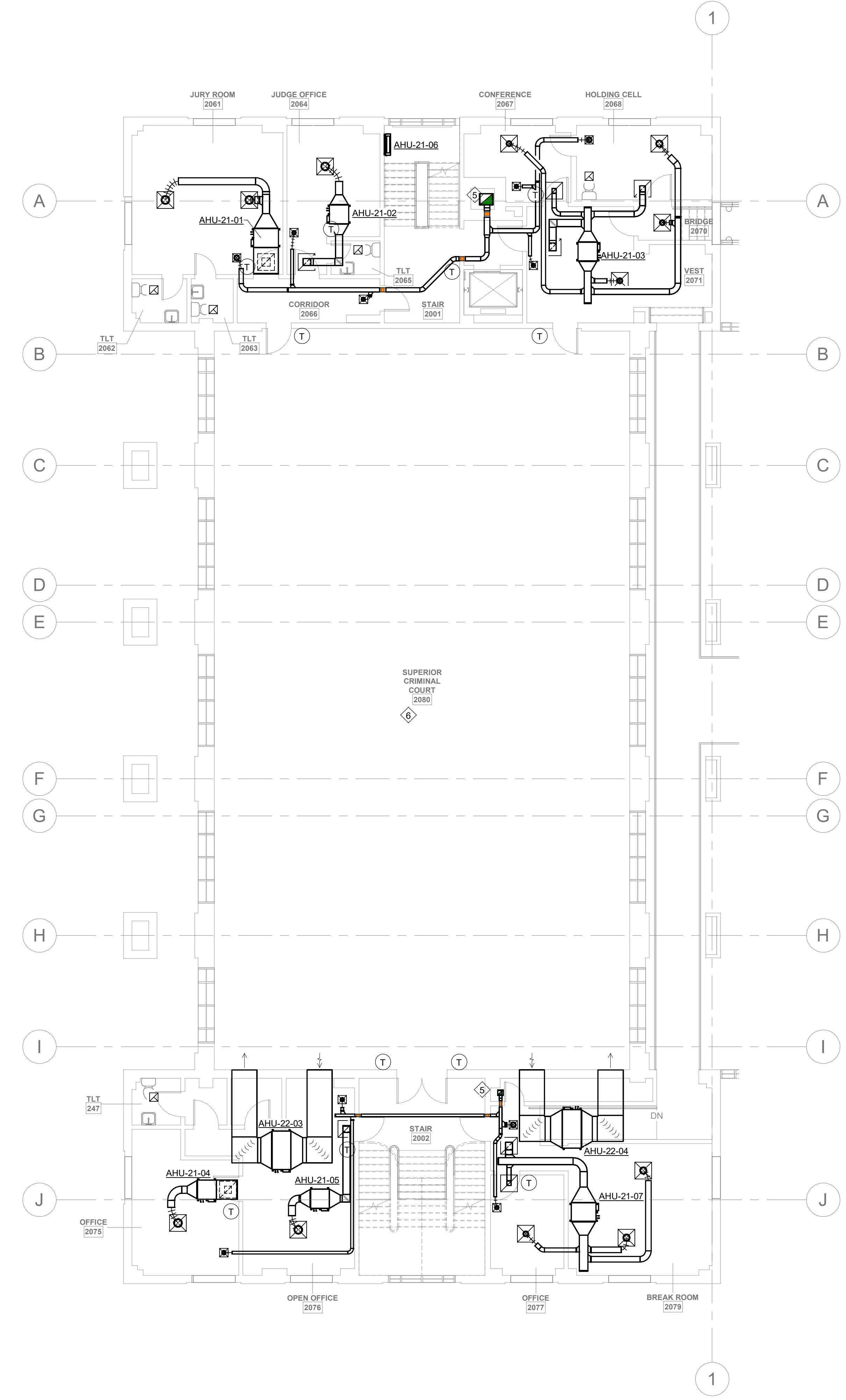
REVISIONS

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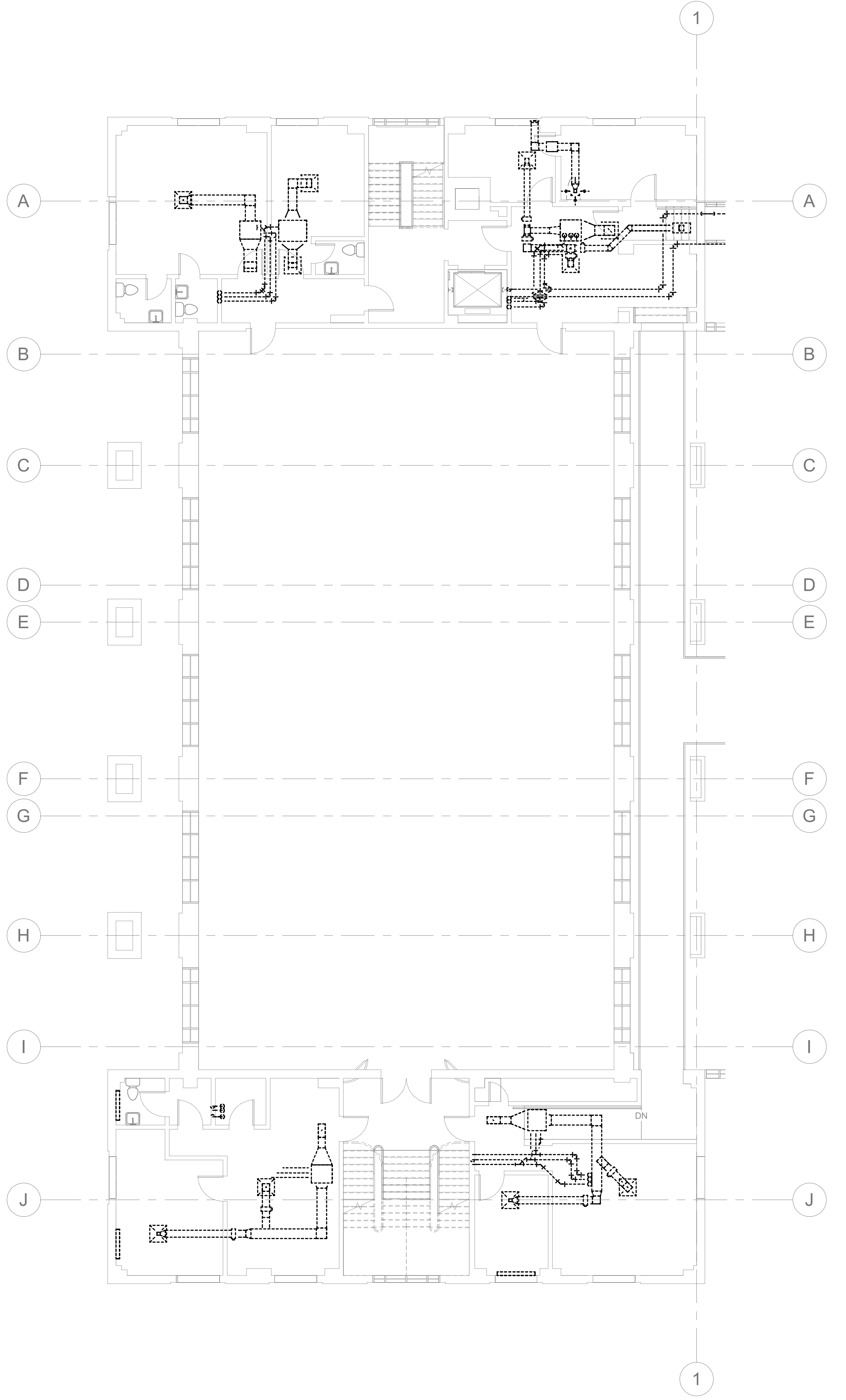
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DRAWING NAME
PHASE 2 MECHANICAL 2ND FLOOR PLANS

DRAWING NO.
M-PH2.2
 Drawn By: EBZ Checked By: MAR



1 PHASE 2 2ND FLOOR MECHANICAL PLAN
 M-PH2.2 1/8" = 1'-0"
 0 8 16 24'



2 PHASE 2 2ND FLOOR DEMO PLAN
 M-PH2.2 1/8" = 1'-0"
 0 8 16 24'

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PHASING PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E)AHU-2-1982 AND EXHAUST FAN (E)FB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E)CH-2-1982. ((E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED)
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PROJECT NUMBER: 22175-03
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PROJECT INFORMATION:

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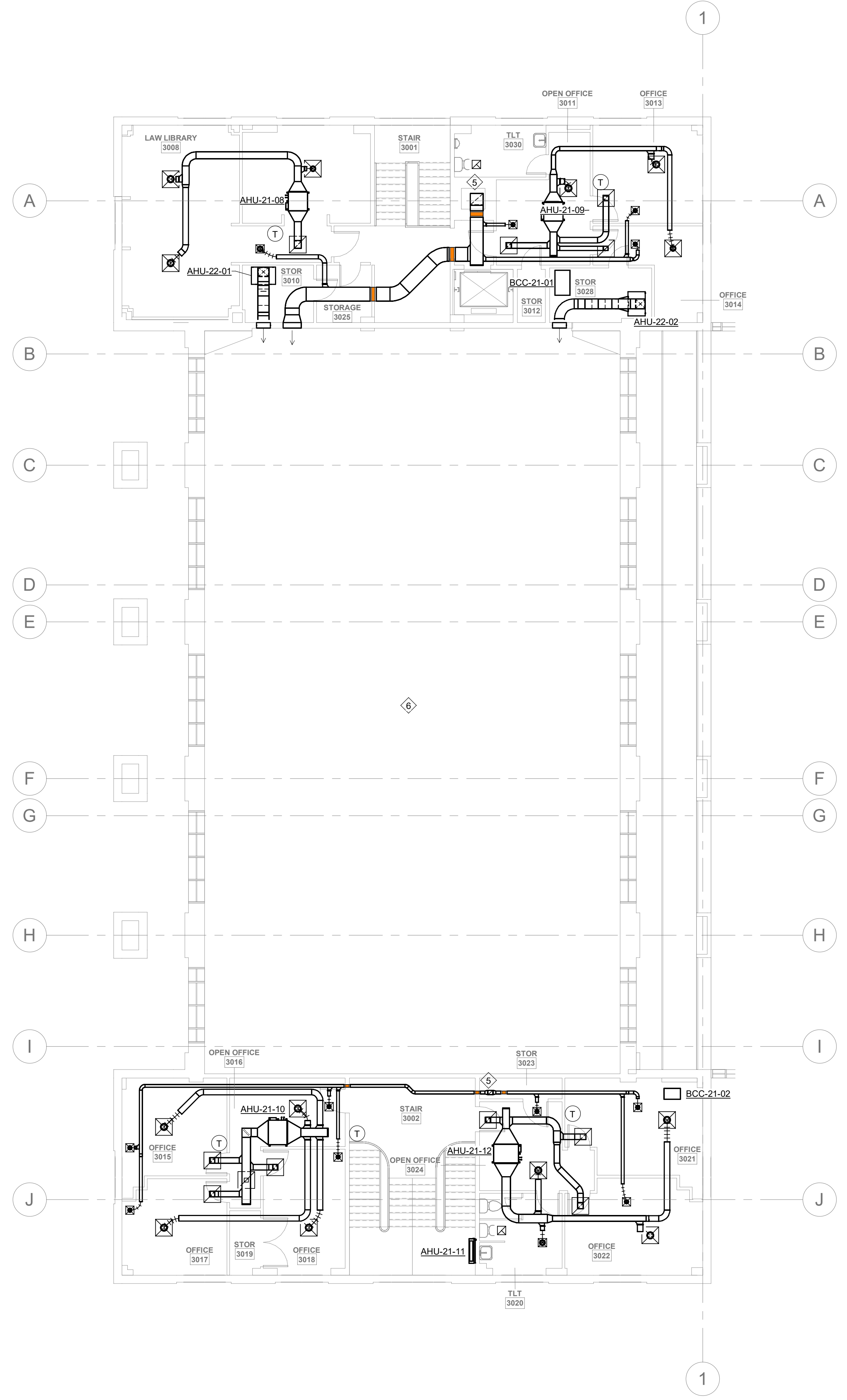
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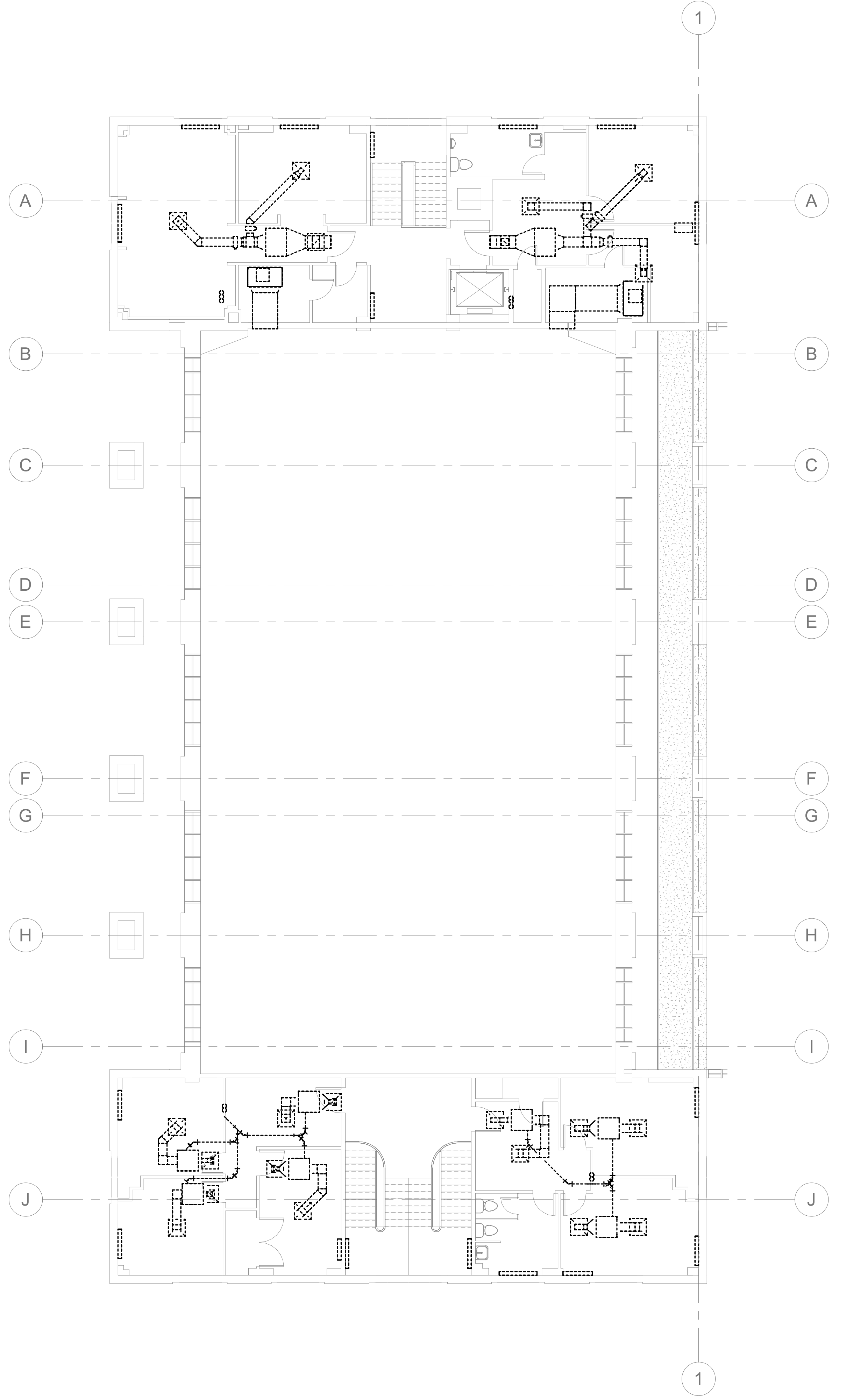
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DRAWING NAME
PHASE 2 MECHANICAL 3RD FLOOR AND MEZZANINE PLANS

DRAWING NO.
M-PH2.3
 Drawn By: EBZ Checked By: MAR



1 PHASE 2 3RD FLOOR MECHANICAL PLAN
 M-PH2.3 1/8" = 1'-0"
 0 8 16 24



2 PHASE 2 3RD FLOOR DEMO PLAN
 M-PH2.3 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-2-1982 AND EXHAUST FAN (E/FB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E)CH-2-1982. ((E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED)
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PROJECT INFORMATION:

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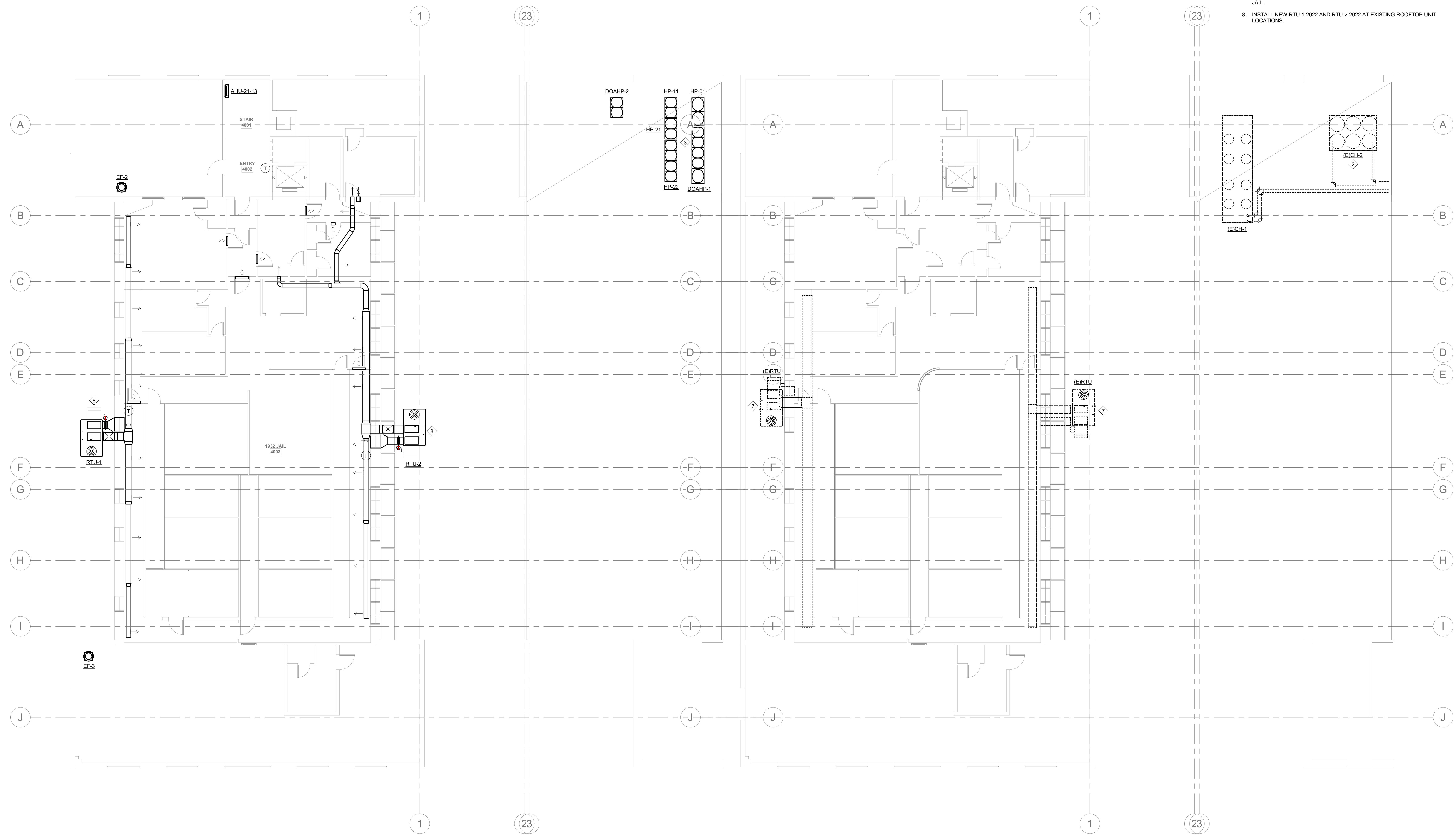
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DRAWING NAME
PHASE 2 MECHANICAL 4TH FLOOR AND ROOF PLANS

DRAWING NO.
M-PH2.4
 Drawn By: EBZ Checked By: MAR



1 PHASE 2 4TH FLOOR AND ROOF MECHANICAL PLAN
 M-PH2.4 1/8" = 1'-0"
 0 8 16 24

2 PHASE 2 4TH FLOOR AND ROOF DEMO PLAN
 M-PH2.4 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 3 PLAN NOTES:

1. INSTALL HP-12-2022, HP-13-2022, HP-23-2022, AND HP-24-2022 ON THE ROOF. WILL REQUIRE NEW SUPPORT STRUCTURE.
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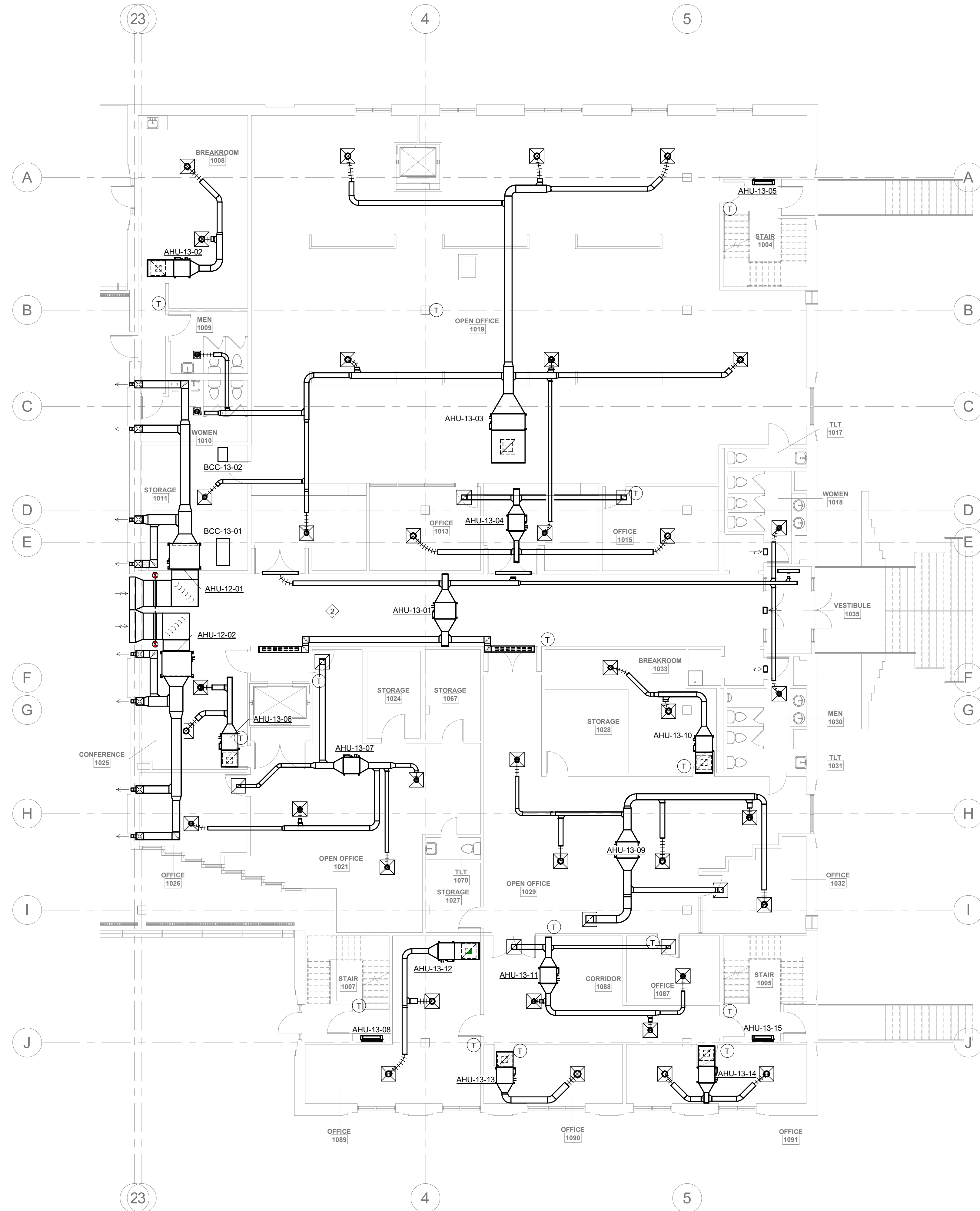
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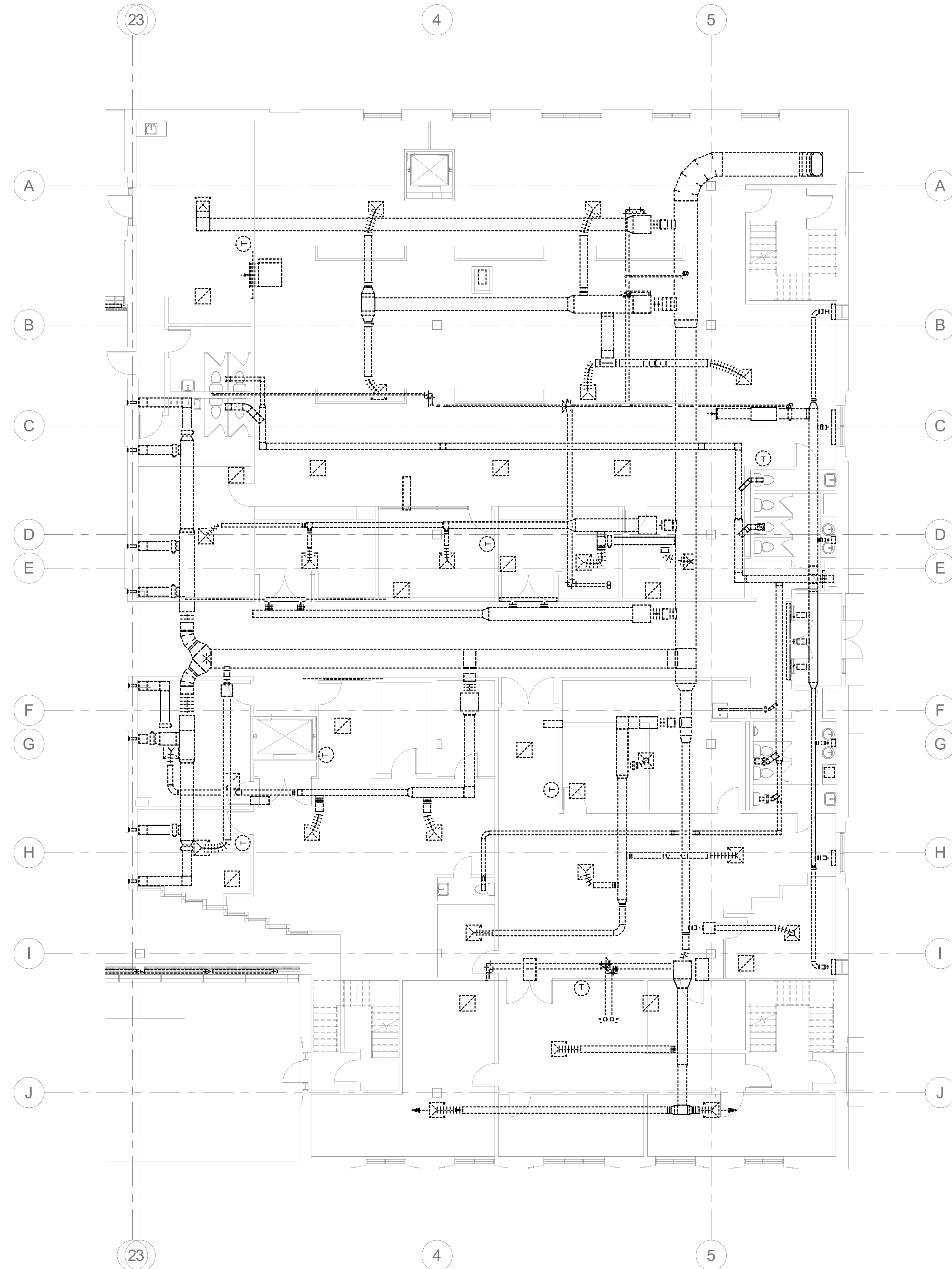
DRAWING NAME
**PHASE 3 MECHANICAL
1ST FLOOR PLANS**

DRAWING NO.
M-PH3.1

Drawn By: EBZ Checked By: MAR



1 PHASE 3 1ST FLOOR MECHANICAL PLAN
M-PH3.1 1/8" = 1'-0"



2 PHASE 3 1ST FLOOR DEMO PLAN
M-PH3.2 1/8" = 1'-0"

GENERAL PHASING NOTES:

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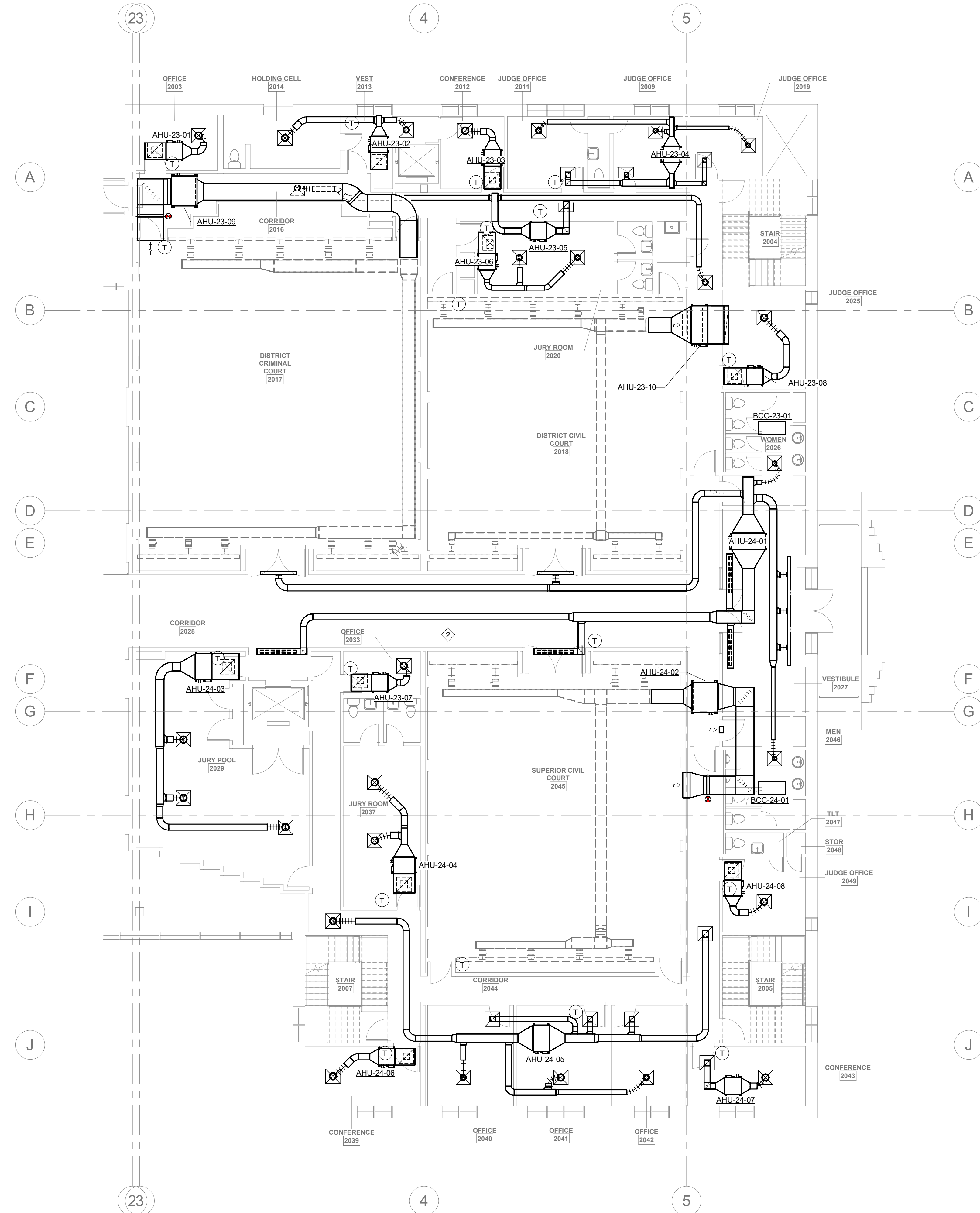
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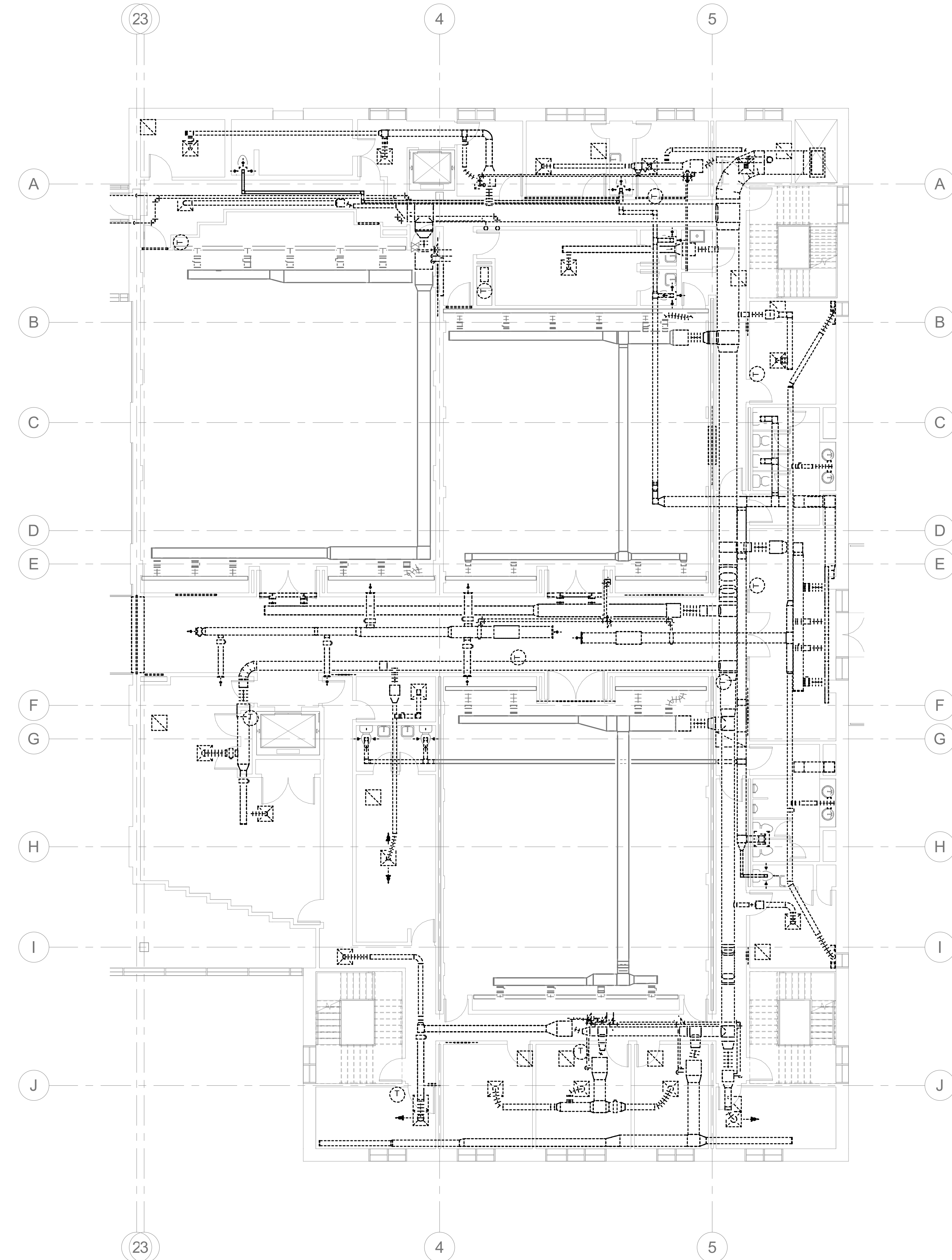
DRAWING NAME
**PHASE 3 MECHANICAL
2ND FLOOR PLANS**

DRAWING NO.
M-PH3.2

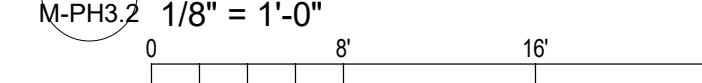
Drawn By: EBZ Checked By: MAR



1 PHASE 3 2ND FLOOR MECHANICAL PLAN
M-PH3.2 1/8" = 1'-0"



2 PHASE 3 2ND FLOOR DEMO PLAN
M-PH3.2 1/8" = 1'-0"



GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
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PHASE 3 PLAN NOTES:

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PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

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COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

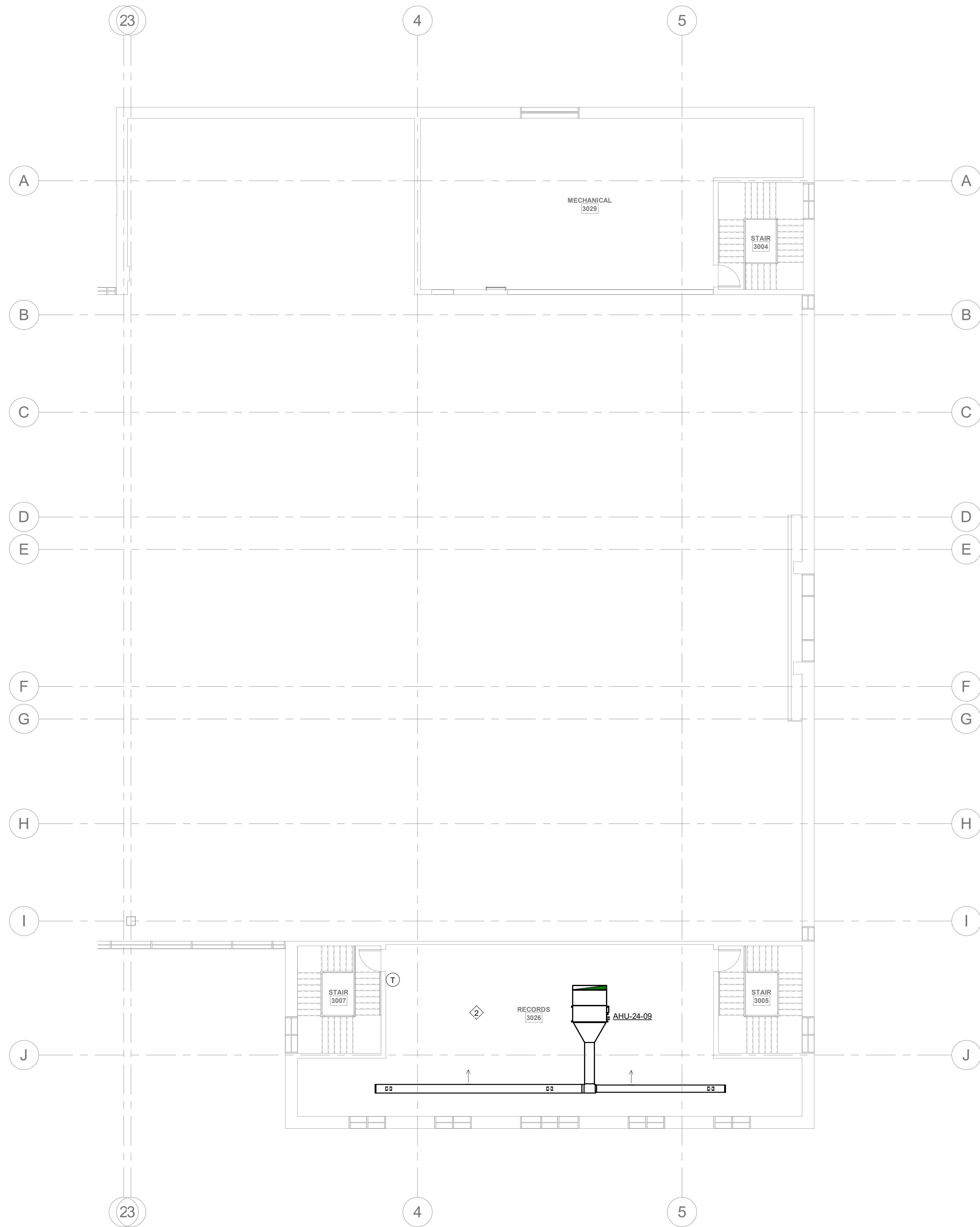
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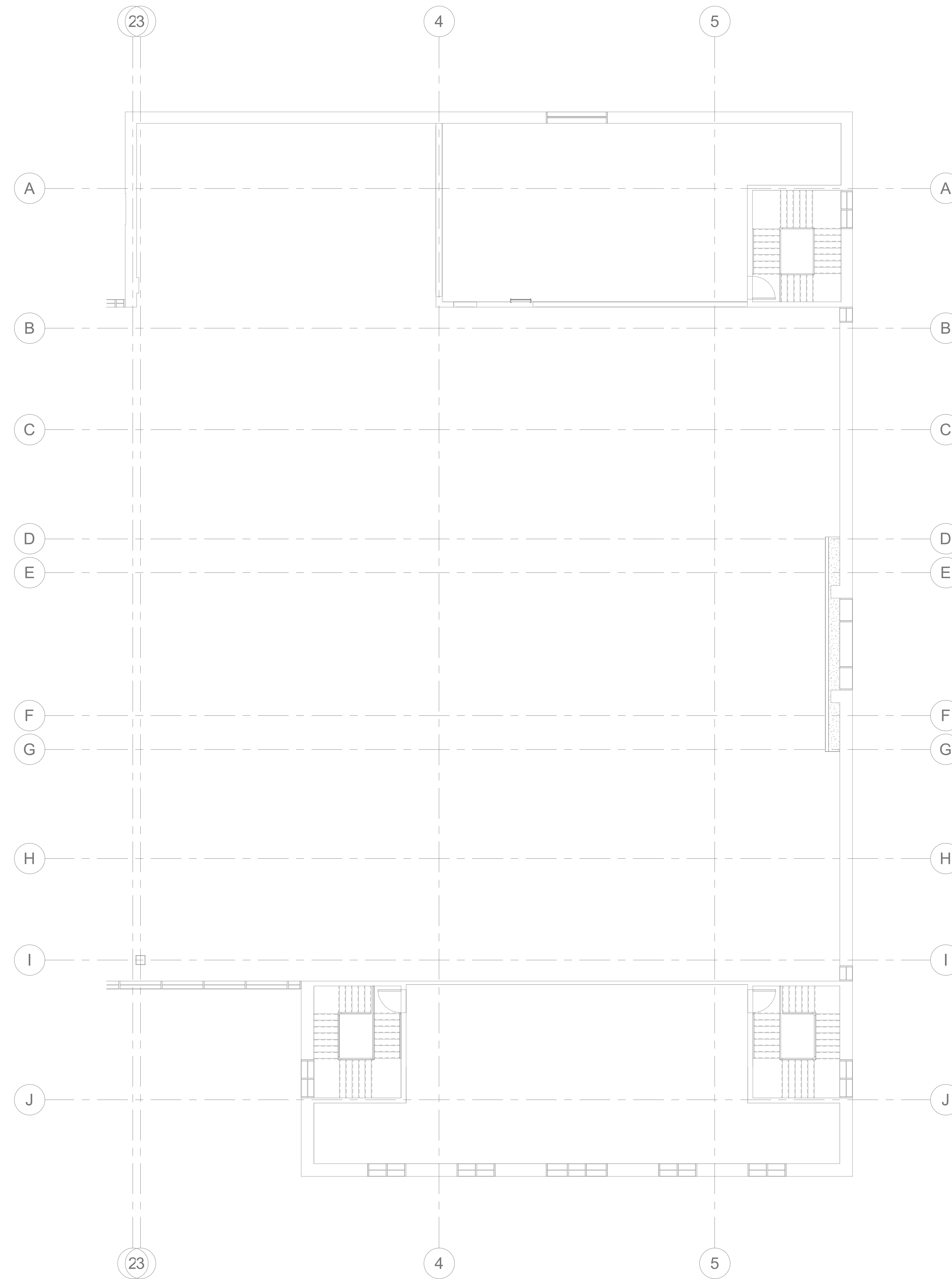
DRAWING NAME
**PHASE 3 MECHANICAL
3RD FLOOR AND
MEZZANINE PLANS**

DRAWING NO.
M-PH3.3

Drawn By: EBZ Checked By: MAR



1 PHASE 3 3RD FLOOR MECHANICAL PLAN
M-PH3.3 1/8" = 1'-0"



2 PHASE 3 3RD FLOOR DEMO PLAN
M-PH3.3 1/8" = 1'-0"

GENERAL PHASING NOTES:

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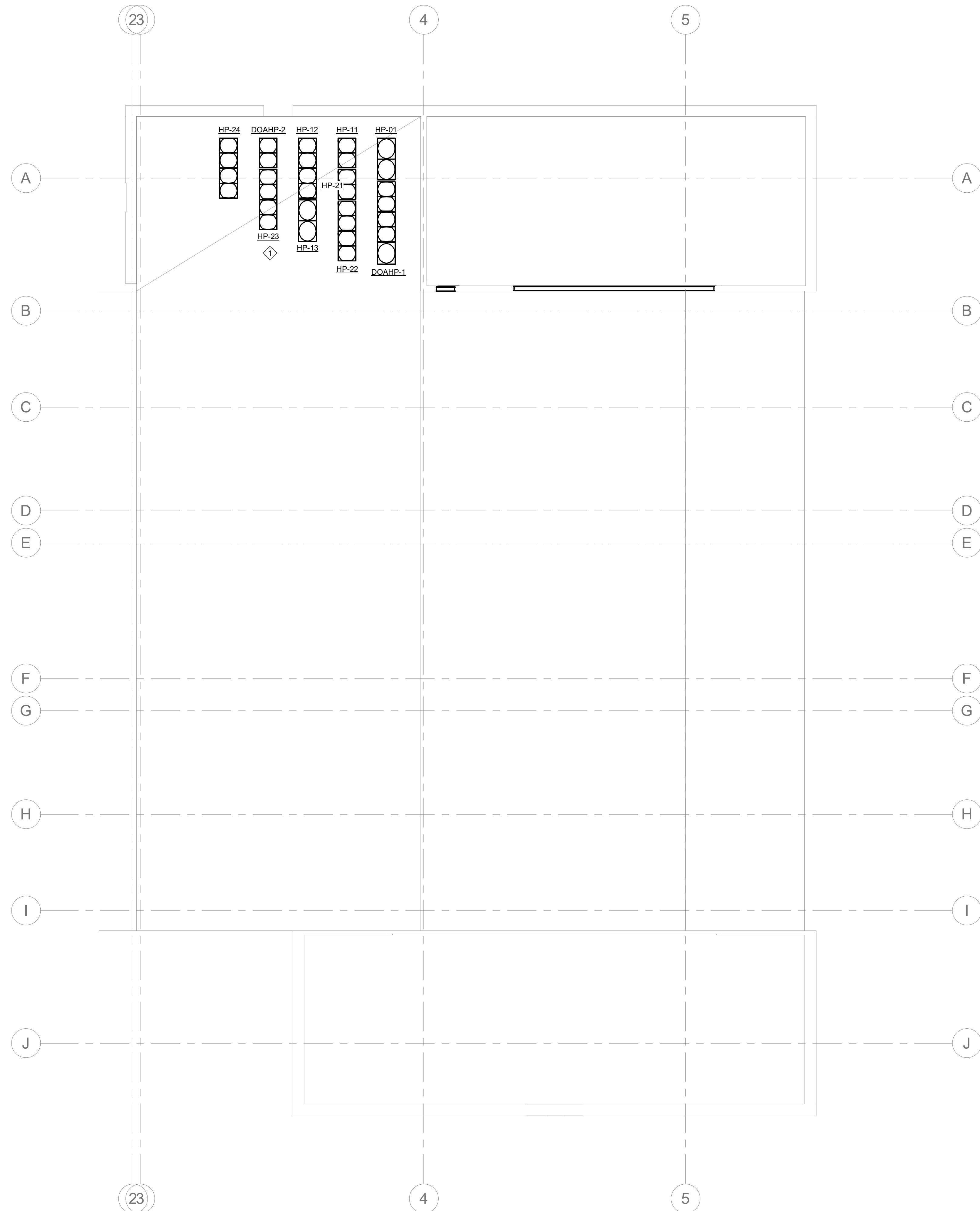
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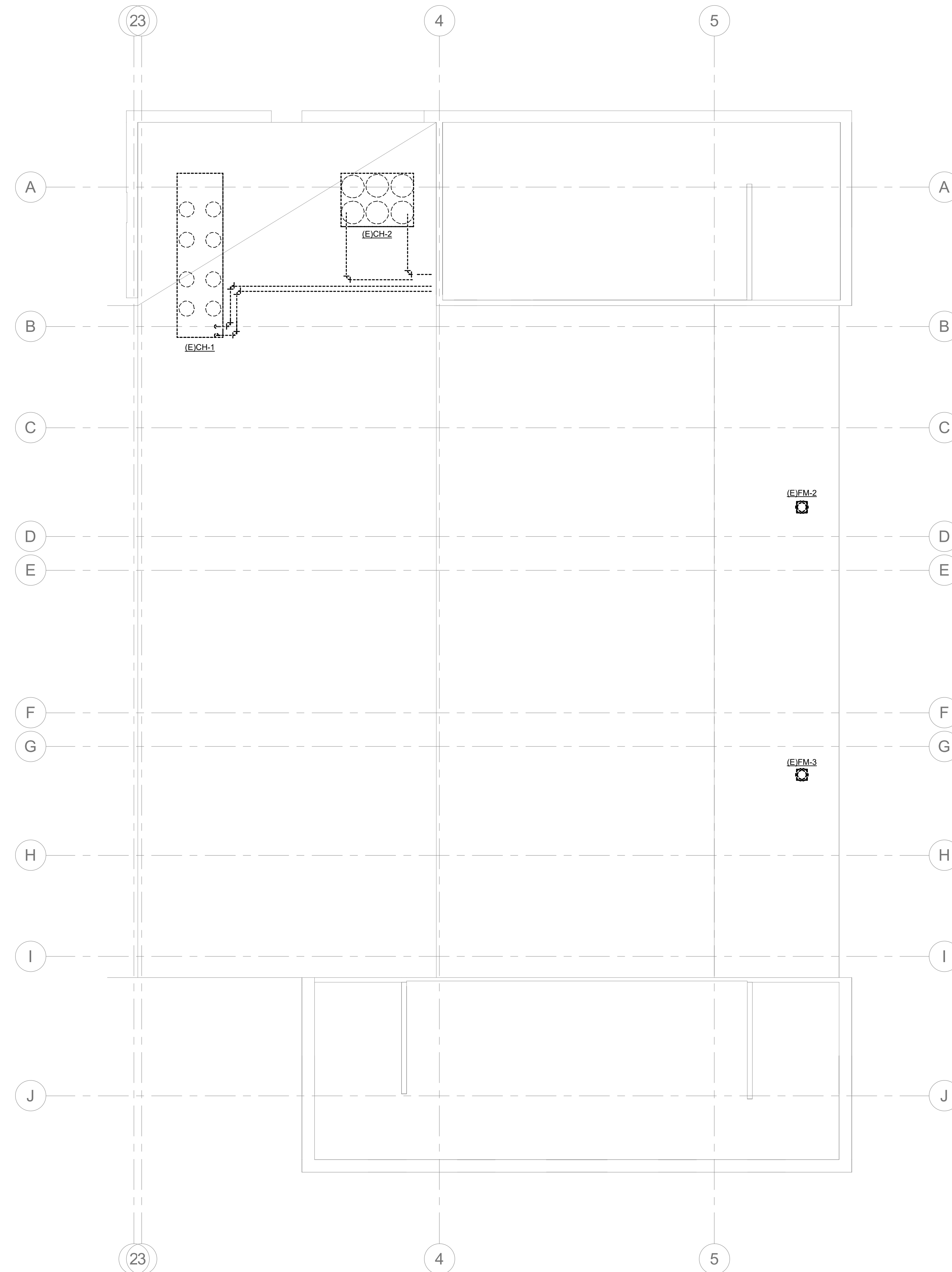
DRAWING NAME
**PHASE 3 MECHANICAL
4TH FLOOR AND ROOF
PLANS**

DRAWING NO.
M-PH3.4

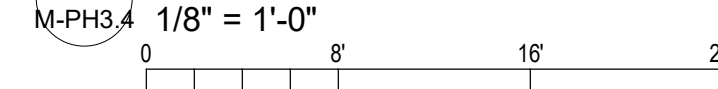
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1 PHASE 3 ROOF MECHANICAL PLAN
M-PH3.4 1/8" = 1'-0"



2 PHASE 3 ROOF DEMO PLAN
M-PH3.4 1/8" = 1'-0"



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PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E)AHU-1-1982. TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E)CH-1-1982.
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
4. INSTALL NEW DOAHP-3-2022 TO SERVE THE 1982 WING IN MECHANICAL PENTHOUSE (3029).
5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.



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PROJECT NUMBER: 22175-03

PROJECT INFORMATION:

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REVISIONS

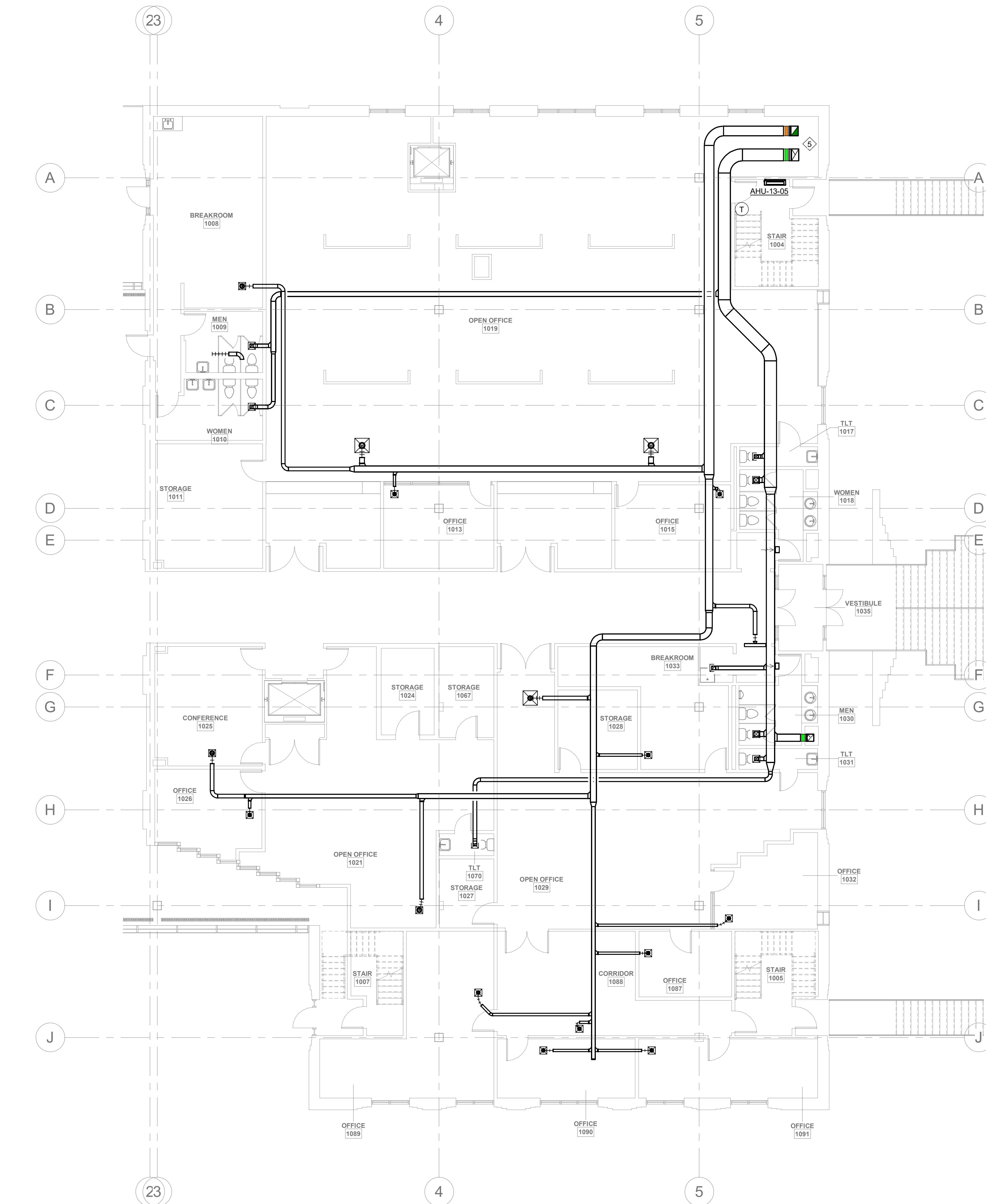
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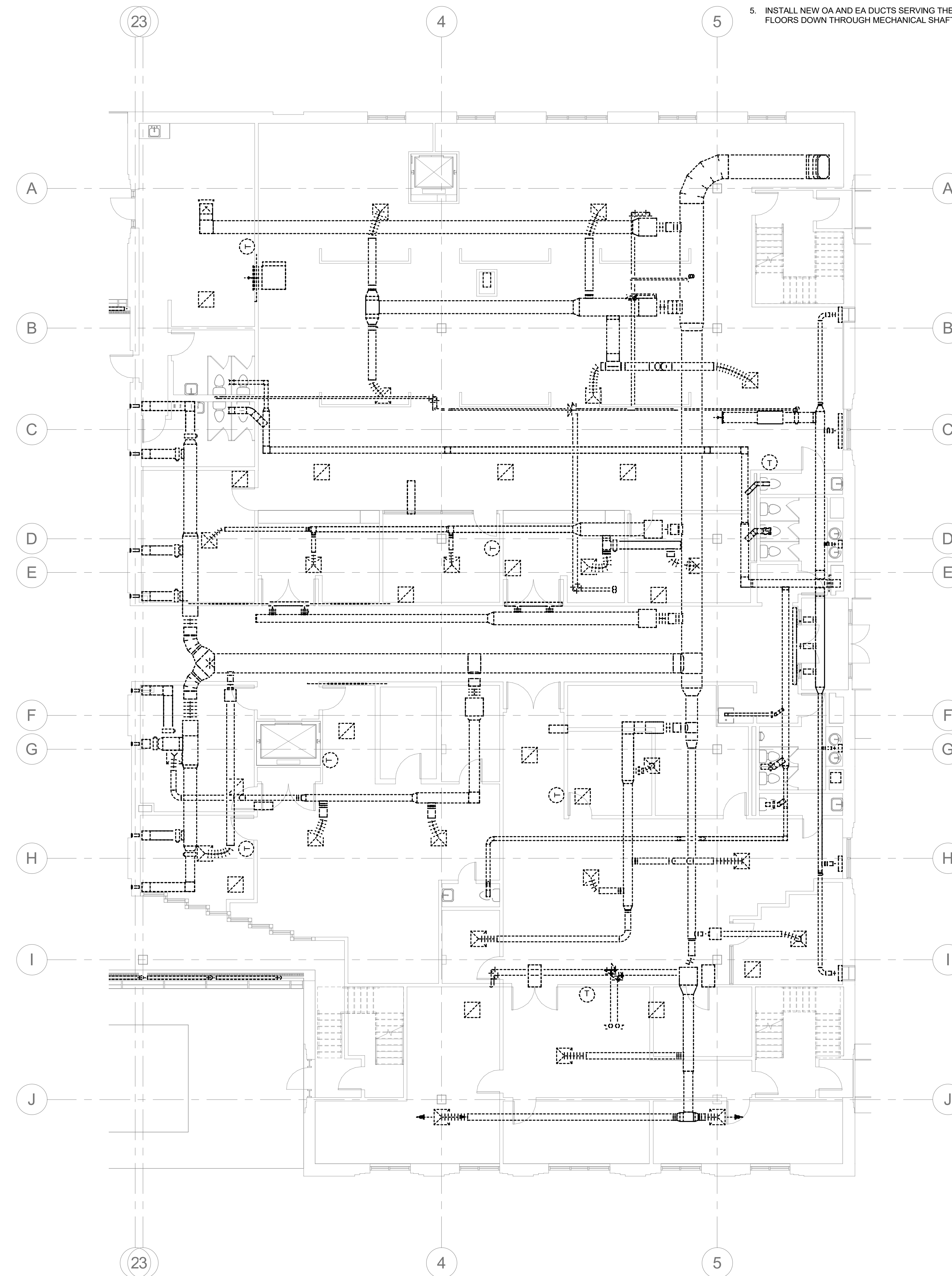
DRAWING NAME
**PHASE 4 MECHANICAL
 1ST FLOOR PLANS**

DRAWING NO.
M-PH4.1

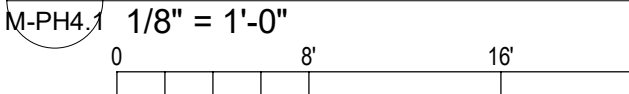
Drawn By: EBZ Checked By: MAR



1 PHASE 4 1ST FLOOR MECHANICAL PLAN
 M-PH4.1
 1/8" = 1'-0"



2 PHASE 4 1ST FLOOR DEMO PLAN
 M-PH4.1
 1/8" = 1'-0"



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PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EAHU-1-1982). TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E)CH-1-1982.
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
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5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.



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 CONSULTANT:

PROJECT INFORMATION:

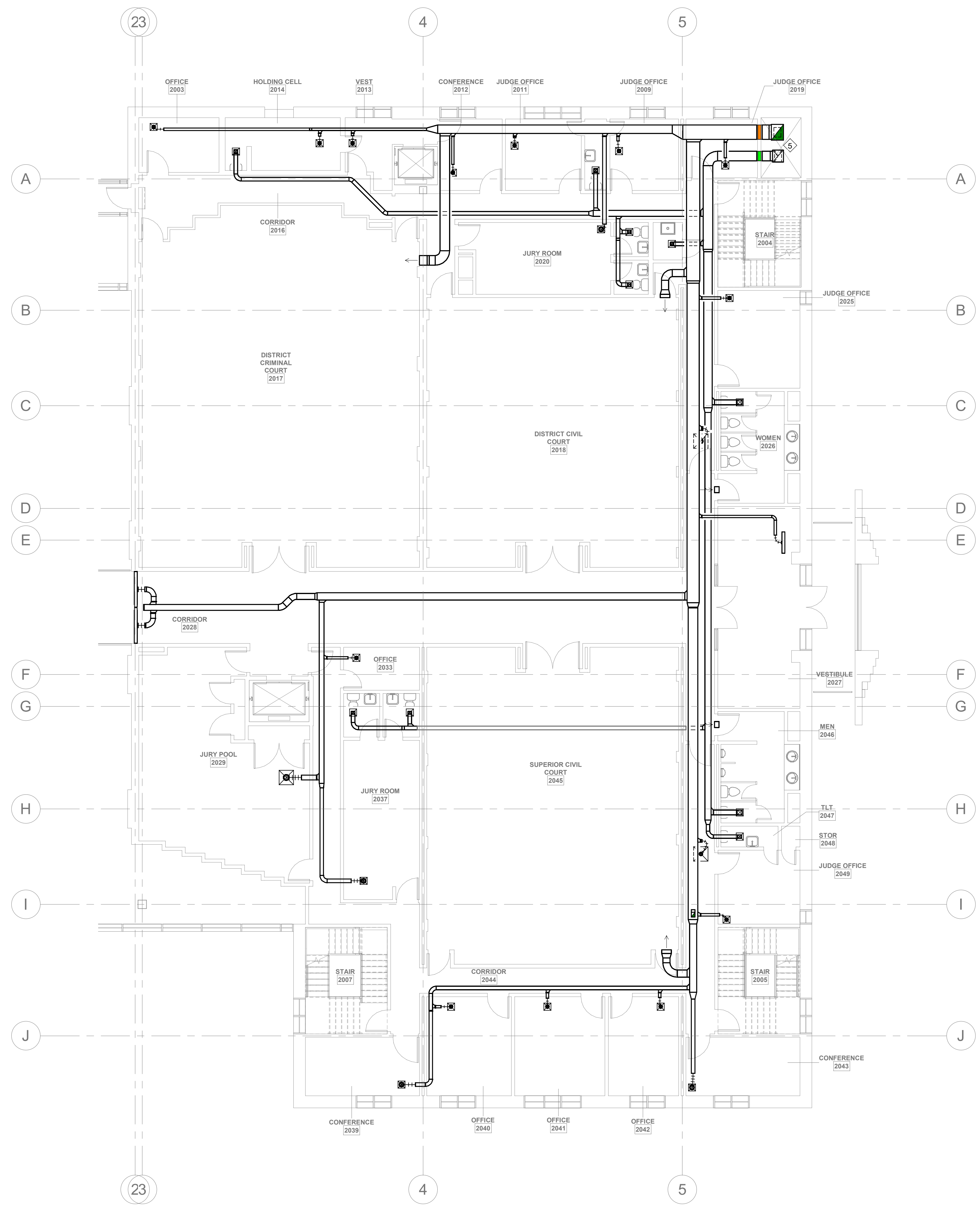
LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
| | | |

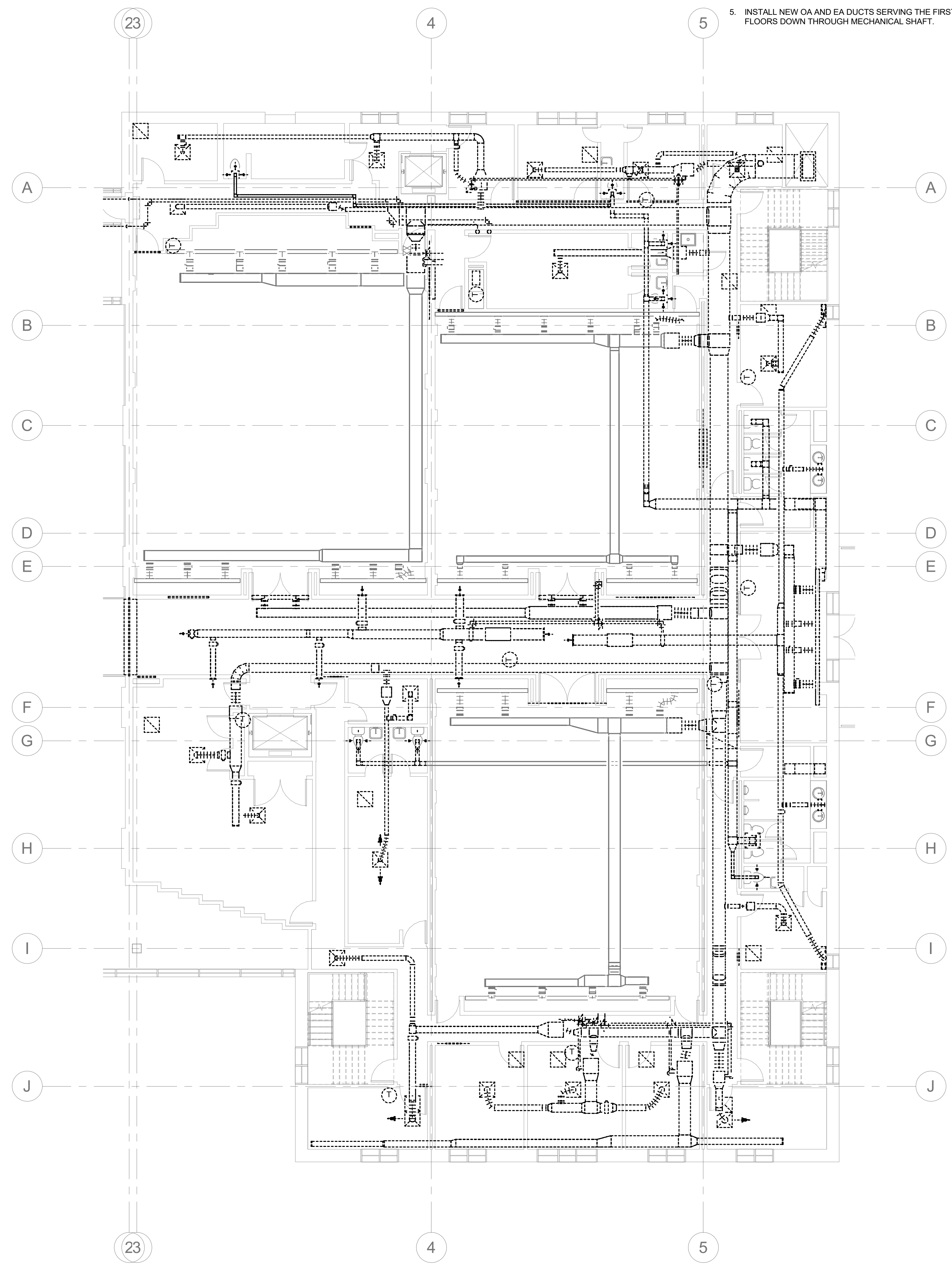
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DRAWING NAME
PHASE 4 MECHANICAL 2ND FLOOR PLANS

DRAWING NO.
M-PH4.2
 Drawn By: EBZ Checked By: MAR



1 PHASE 4 2ND FLOOR MECHANICAL PLAN
 M-PH4.2 1/8" = 1'-0"
 0 8 16 24



2 PHASE 4 2ND FLOOR DEMO PLAN
 M-PH4.2 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-1-1982). TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E)CH-1-1982.
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
4. INSTALL NEW DOAHP-3-2022 TO SERVE THE 1982 WING IN MECHANICAL PENTHOUSE (3029).
5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.



DEVITA
 ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
 877.4.DEVITA • corp@devitainc.com
 DeVita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

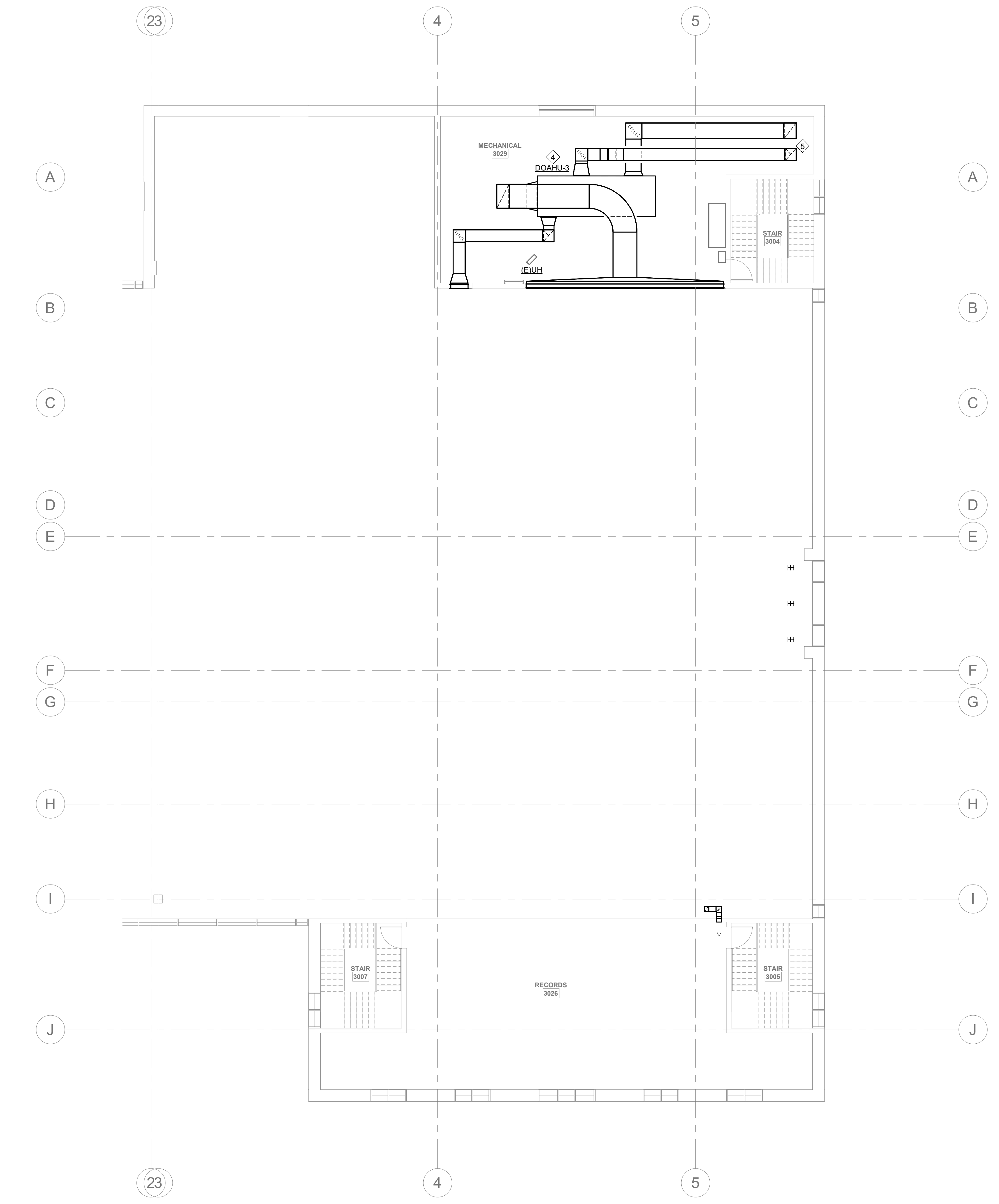
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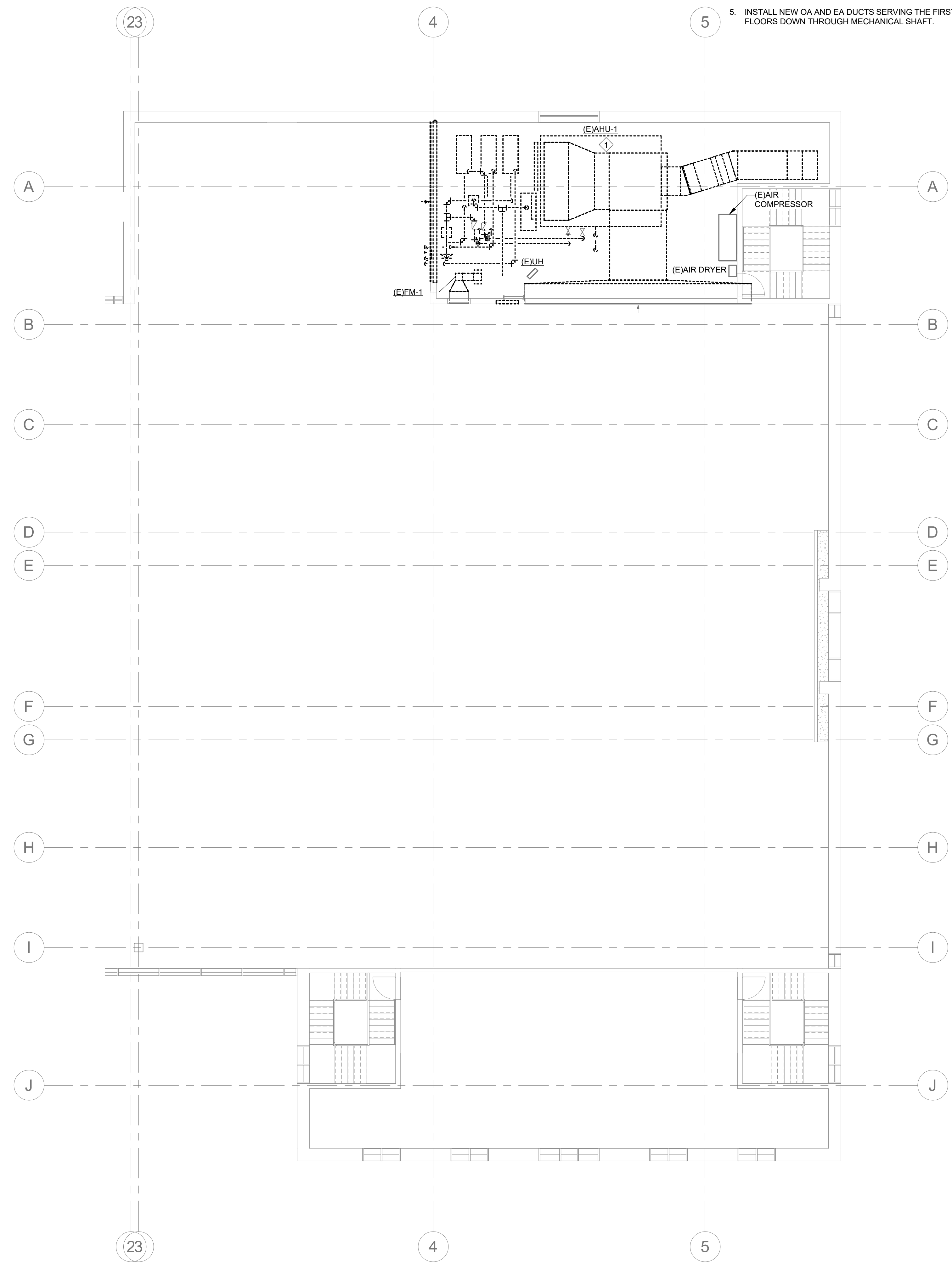
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DRAWING NAME
PHASE 4 MECHANICAL 3RD FLOOR AND MEZZANINE PLANS

DRAWING NO.
M-PH4.3
 Drawn By: EBZ Checked By: MAR



1 PHASE 4 3RD FLOOR MECHANICAL PLAN
 M-PH4.3 1/8" = 1'-0"
 0 8 16 24



2 PHASE 4 3RD FLOOR DEMO PLAN
 M-PH4.3 1/8" = 1'-0"
 0 8 16 24

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 4 PLAN NOTES:

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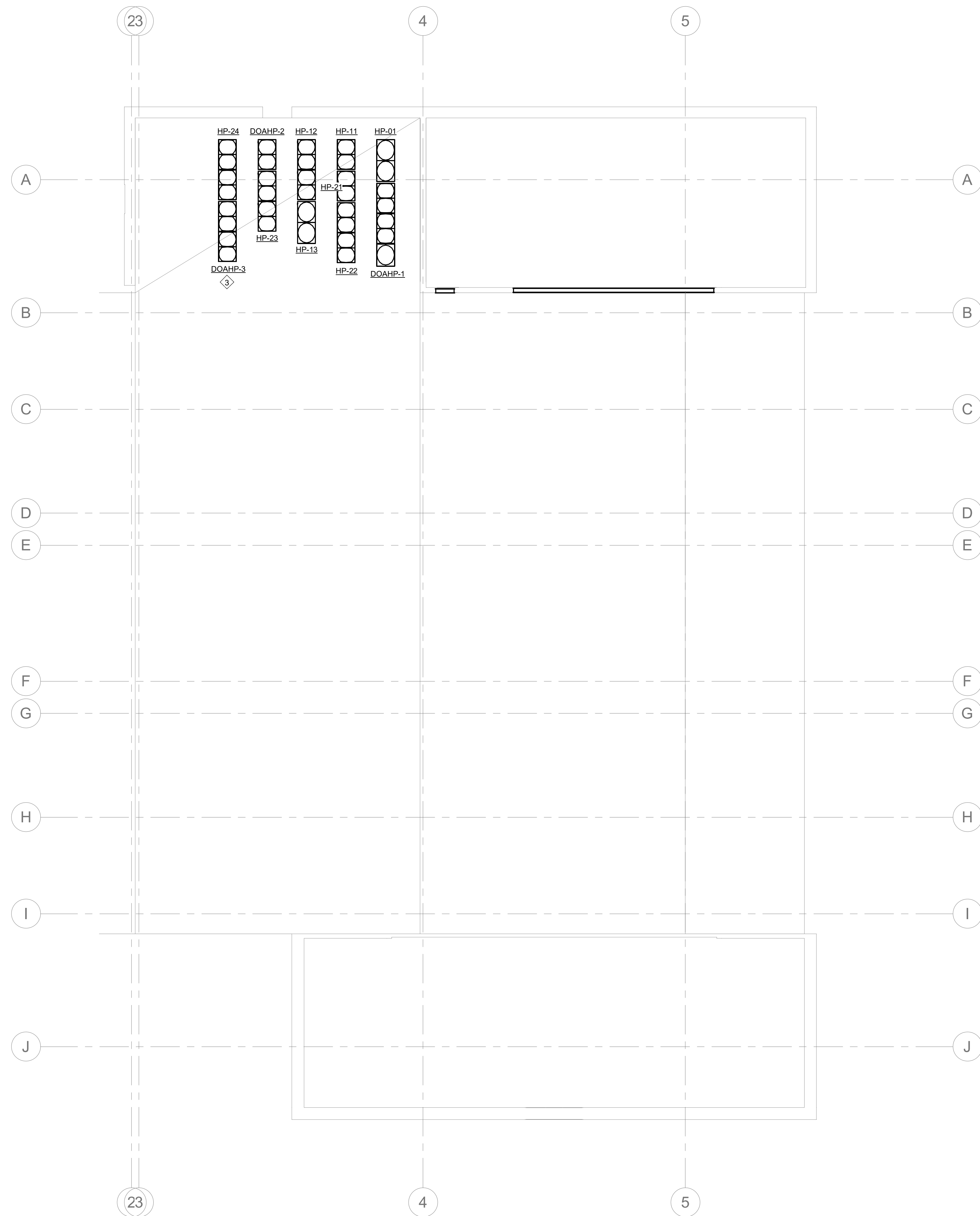
| NO. | DATE | DESCRIPTION |
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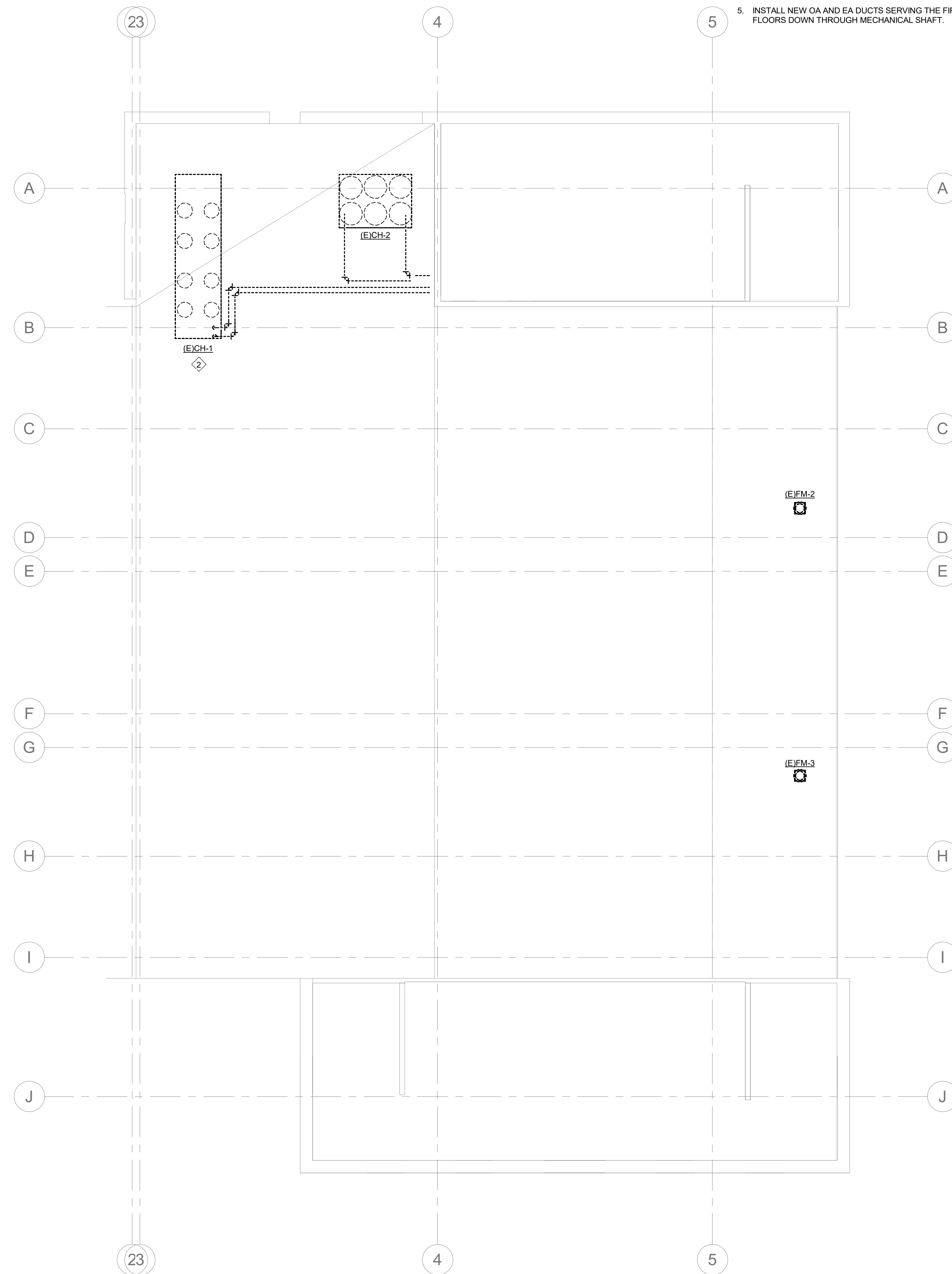
DRAWING NAME
**PHASE 4 MECHANICAL
 4TH FLOOR AND ROOF
 PLANS**

DRAWING NO.
M-PH4.4

Drawn By: EBZ Checked By: MAR



1 PHASE 4 ROOF MECHANICAL PLAN
 M-PH4.4 1/8" = 1'-0"
 0 8 16 24



2 PHASE 4 4TH FLOOR DEMO PLAN
 M-PH4.4 1/8" = 1'-0"
 0 8 16 24



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DRAWING NAME
**PLUMBING LEGENDS
 AND NOTES**

DRAWING NO.
P0.1

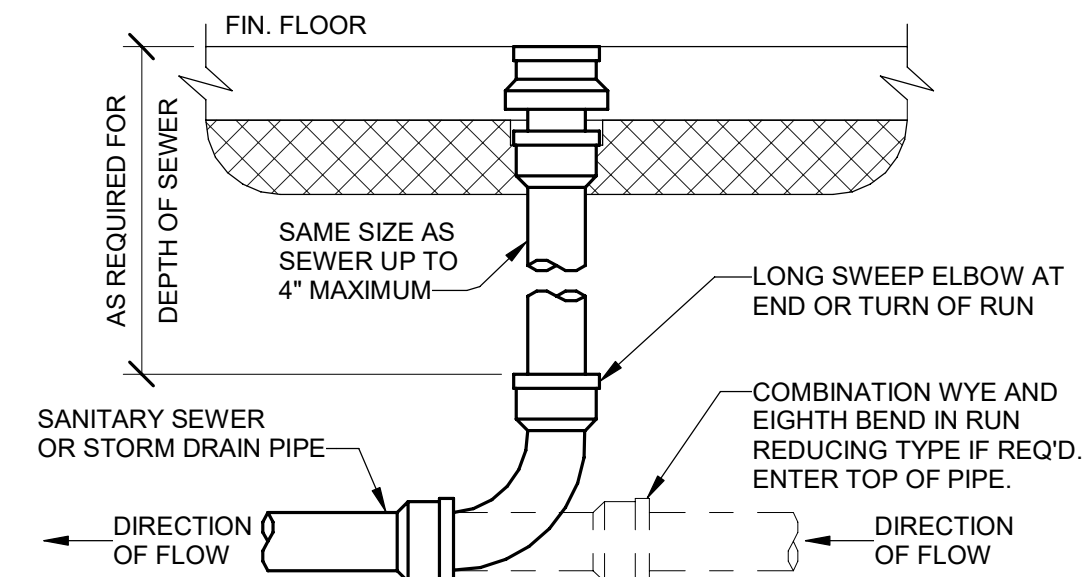
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PLUMBING GENERAL NOTES

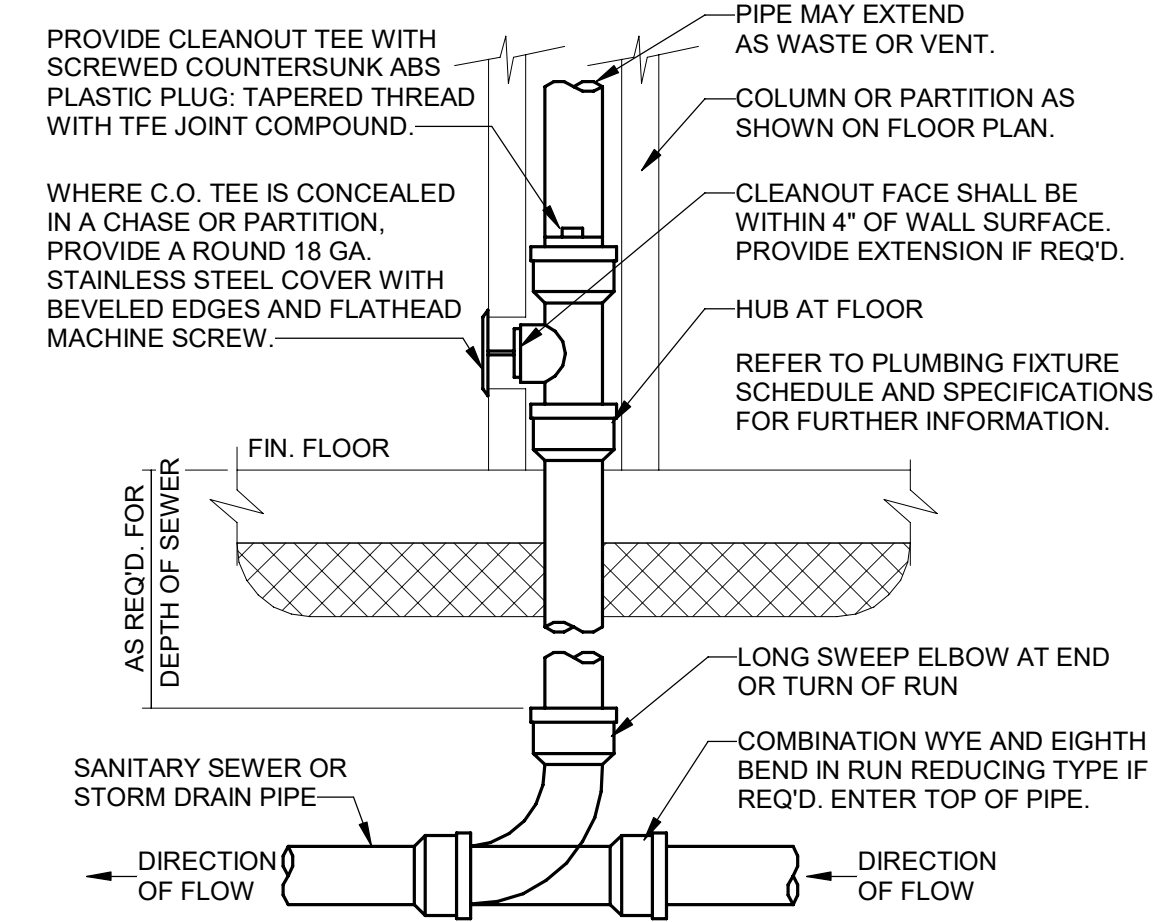
- CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AND HEALTH REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES AND PERMITS REQUIRED.
- CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROVIDE EXTENDED GUARANTEES FOR EQUIPMENT SUCH AS WATER HEATERS WHEN REQUIRED.
- SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL PLUMBING FIXTURES & MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE PREMISES AT AND ADJACENT TO PROPOSED WORK. VERIFY EXISTING PIPE SIZES, LOCATION AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO BID.
- DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATION OF PIPING, FIXTURES, ETC. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL COOPERATE FULLY WITH OWNER IN SCHEDULING AND MAKING CONNECTIONS TO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST POSSIBLE INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC., OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
- MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.
- CONTRACTOR SHALL FURNISH ACCESS PANELS, TO BE INSTALLED BY THE GENERAL CONTRACTOR, AS REQUIRED FOR PLUMBING INSTALLATIONS, FOR ACCESS TO VALVES AND DEVICES.
- ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
- ALL DOMESTIC HOT WATER AND COLD WATER PIPING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS USING "NO-LEAD" SOLDER. DOMESTIC WATER PIPING BELOW CONCRETE SLAB SHALL BE TYPE "K" SOFT COPPER. NO SOLDER JOINTS ARE ALLOWED BELOW CONCRETE SLAB. COPPER PIPING PASSING UNDER AND THROUGH CONCRETE SLAB OR WALLS SHALL BE PROTECTED WITH A PROTECTIVE SHEATHING OR WRAPPING TO PREVENT CORROSION TO THE COPPER PIPING.
- VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL.
- PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH SERVICE JACKET ON ALL DOMESTIC WATER PIPING. DOMESTIC COLD WATER PIPE INSULATION SHALL HAVE A CONTINUOUS VAPOR BARRIER.
- ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL TO PREVENT FREEZE DAMAGE.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND INVERT AT THE POINT OF CONNECTION TO THE SEWER SYSTEM BEFORE DETERMINING FINAL ROUTING OF SOIL, WASTE AND VENT PIPING.
- ALL SOIL, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT NO HUB CAST IRON WITH HEAVY DUTY S.S. NO HUB COUPLINGS AND NO HUB CAST IRON FITTINGS. ENSURE FITTING STOP BOSS DOES NOT INTERFERE WITH HEAVY DUTY COUPLINGS. PROVIDE 3M FIRE BARRIER CAULK CP-25 GAULKING, OR U.L. APPROVED EQUAL, AT ANY PENETRATION OF FIRE RATED ASSEMBLIES.
- ALL SOIL, WASTE AND VENT PIPING SHALL BE UNIFORMLY GRADED AND SHALL HAVE A SLOPE OF NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN 3" IN DIA.
- NUMBER OF PLUMBING FIXTURES REQUIRED SHALL BE IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE 403 AND COORDINATED WITH ARCHITECTURAL DRAWINGS. ACCESSIBLE DESIGN REQUIREMENTS SHALL BE IN ACCORDANCE WITH ICC (ANSI) A117.1.
- CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING, LOOP AROUND, CONNECTION NECESSARY TO MAINTAIN SERVICE TO AREAS OUTSIDE THIS PROJECT SCOPE, AND TO ACCOMPLISH PHASING AS OUTLINED IN CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SCOPE EXISTING BELOW FLOOR WASTE PIPE AS REQUIRED TO DETERMINE LOCATION TO PERFORM NEW WORK AS INDICATED.
- CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON COLD WATER PIPING SERVING FLUSH VALVES, WASHER BOXES, SOLENOIDS AND QUICK CLOSING VALVES.

| PLUMBING SYMBOLS LEGEND | |
|-------------------------|---|
| PIPING LEGEND | |
| | DOMESTIC COLD WATER - CW |
| | FILTERED WATER - FW |
| | EXISTING DOMESTIC COLD WATER - (E)CW |
| | DOMESTIC HOT WATER - HW - 110°F |
| | DOMESTIC HOT WATER - HW - 140°F |
| | EXISTING DOMESTIC HOT WATER - (E)HW |
| | DOMESTIC HOT WATER RETURN - HWR |
| | DOM. HOT WATER RETURN - 140°F |
| | EXISTING HOT WATER RETURN - (E)HWR |
| | TEMPERED WATER - TW |
| | VENT PIPING ABOVE FLOOR - V |
| | EXISTING VENT PIPING ABOVE FLOOR - (E)V |
| | SANITARY SEWER PIPING - SS |
| | EXISTING SANITARY SEWER PIPING - (E)SS |
| | GREASE PIPING - GW |
| | EXISTING GREASE LADEN PIPING - (E)GW |
| | STORM DRAIN PIPING - ST |
| | EXISTING STORM DRAIN PIPING - (E)ST |
| | OVERFLOW (EMERGENCY) STORM DRAIN PIPING - OST |
| | EXISTING OVERFLOW (EMERGENCY) STORM DRAIN PIPING - (E)OST |
| | CONDENSATE DISCHARGE PIPING - CD |
| | EXISTING CONDENSATE DISCHARGE PIPING - (E)CD |
| | FIRE PROTECTION PIPING - F |
| | EXISTING FIRE PROTECTION PIPING - (E)F |
| | NATURAL GAS PIPING - G |
| | EXISTING NATURAL GAS PIPING - (E)G |
| | COMPRESSED AIR PIPING - CA |
| | EXISTING COMPRESSED AIR PIPING - (E)CA |
| | OIL PIPING - O |
| | SODA/BEER PIPING CHASE |
| SYMBOL LEGEND | ABBREVIATIONS |
| | A AMPS |
| | AFF ABOVE FINISHED FLOOR |
| | BFF BELOW FINISHED FLOOR |
| | BFP BACKFLOW PREVENTER |
| | BOP BOTTOM OF PIPE |
| | BTU BRITISH THERMAL UNIT |
| | CD CONDENSATE DRAIN PIPING |
| | CFH CUBIC FEET PER HOUR |
| | CO CLEANOUT |
| | CTE CONNECT TO EXISTING |
| | CW COLD WATER (DOMESTIC) |
| | CWFU COLD WATER FIXTURE UNIT |
| | DFU DRAINAGE FIXTURE UNIT |
| | DN DOWN |
| | ECO EXTERIOR CLEANOUT |
| | ELEV ELEVATION |
| | EWIC ELECTRIC WATER COOLER |
| | E / EX EXISTING |
| | FCO FLOOR CLEANOUT |
| | FD FLOOR DRAIN |
| | FLA FULL LOAD AMPS |
| | FOG FATS, OIL, AND GREASE |
| | FPWH FROSTPROOF WALL HYDRANT |
| | FPM FEET PER MINUTE |
| | FPS FEET PER SECOND |
| | FS FLOOR SINK |
| | FT FOOT / FEET |
| | G GAS PIPING |
| | GAL GALLON |
| | GPD GALLONS PER DAY |
| | GPH GALLONS PER HOUR |
| | GPM GALLONS PER MINUTE |
| | HB HOSE BIBB |
| | HD HUB DRAIN |
| | HP HORSE POWER |
| | HW HOT WATER (DOMESTIC) |
| | HWFU HOT WATER FIXTURE UNIT |
| | Hz HERTZ |
| | IN INCH / INCHES |
| | INV INVERT |
| | KW KILOWATT |
| | MBH THOUSAND BRITISH THERMAL UNITS |
| | MAX MAXIMUM |
| | MIN MINIMUM |
| | NC NORMALLY CLOSED |
| | NO NORMALLY OPEN |
| | NTS NOT TO SCALE |
| | PRV PRESSURE REDUCING VALVE |
| | RD ROOF DRAIN |
| | RL ROOF LEADER |
| | RPM REVOLUTIONS PER MINUTE |
| | RPZ REDUCED PRESSURE ZONE |
| | SD STORM DRAIN |
| | SG SPECIFIC GRAVITY |
| | SS SANITARY SEWER |
| | SQFT SQUARE FEET |
| | TD TRENCH DRAIN |
| | TDH TOTAL DYNAMIC HEAD |
| | TMV THERMOSTATIC MIXING VALVE |
| | TOP TOP OF PIPE |
| | TP TRAP PRIMER |
| | V VOLTS |
| | VB VACUUM BREAKER |
| | VTR VENT THRU ROOF |
| | WC WATER COLUMN |
| | WCO WALL CLEAN OUT |
| | WH WALL HYDRANT |
| | WHA WATER HAMMER ARRESTER |
| | WSFU WATER SUPPLY FIXTURE UNIT |

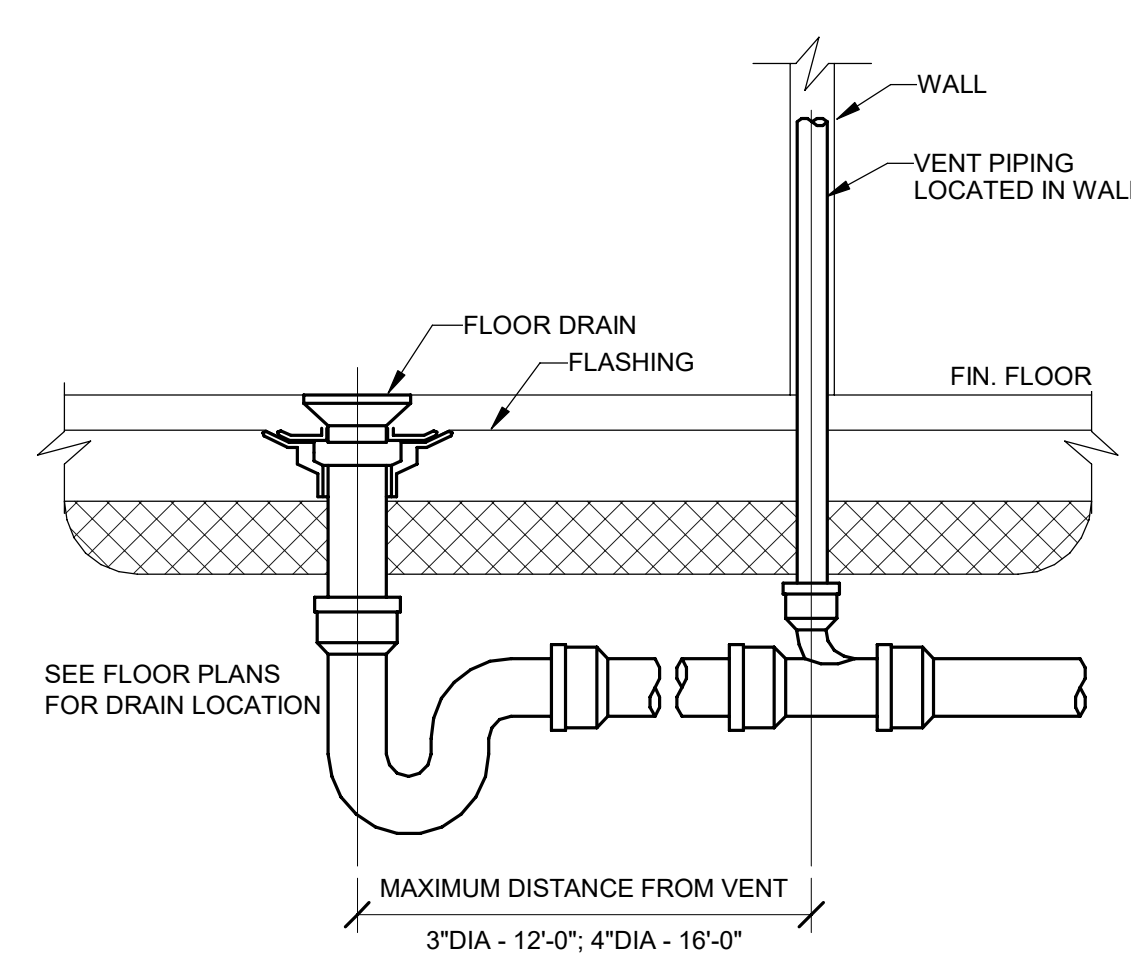
(NOT ALL SYMBOLS ARE USED)



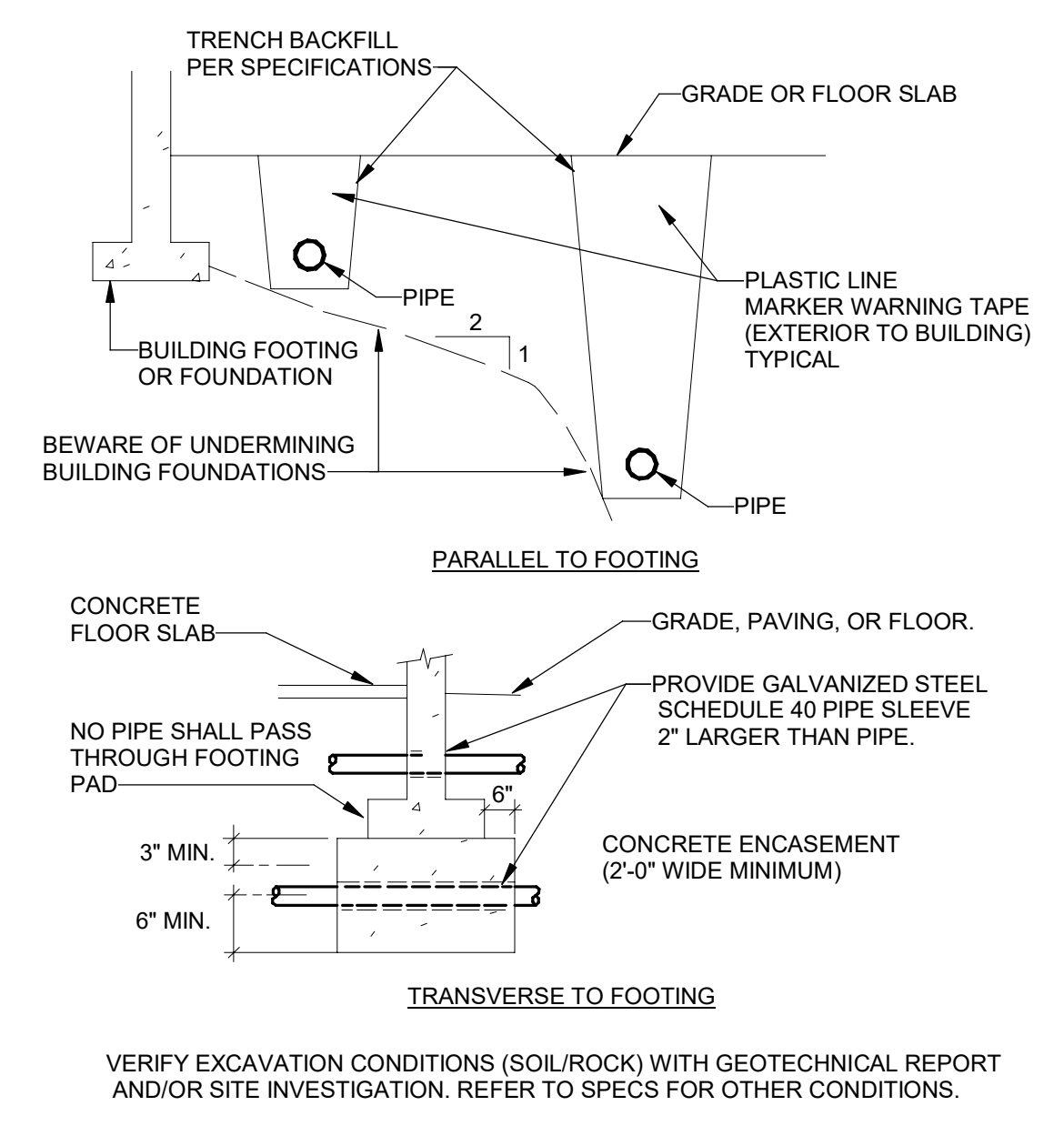
1 FLOOR CLEANOUT SLAB ON GRADE - FCO
NOT TO SCALE



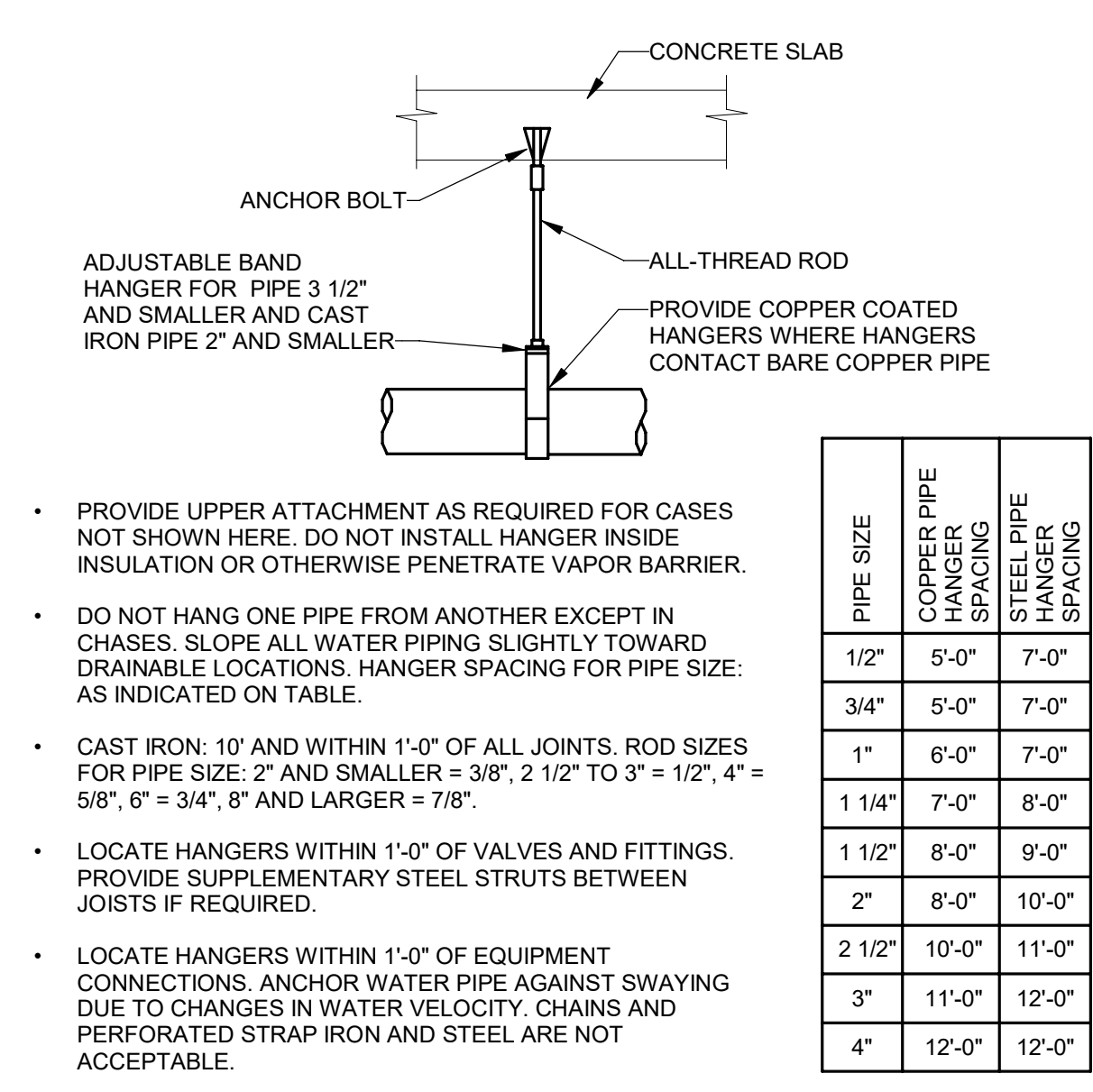
2 WALL CLEANOUT SLAB ON GRADE - WCO
NOT TO SCALE



3 FLOOR DRAIN SLAB ON GRADE - FD
NOT TO SCALE



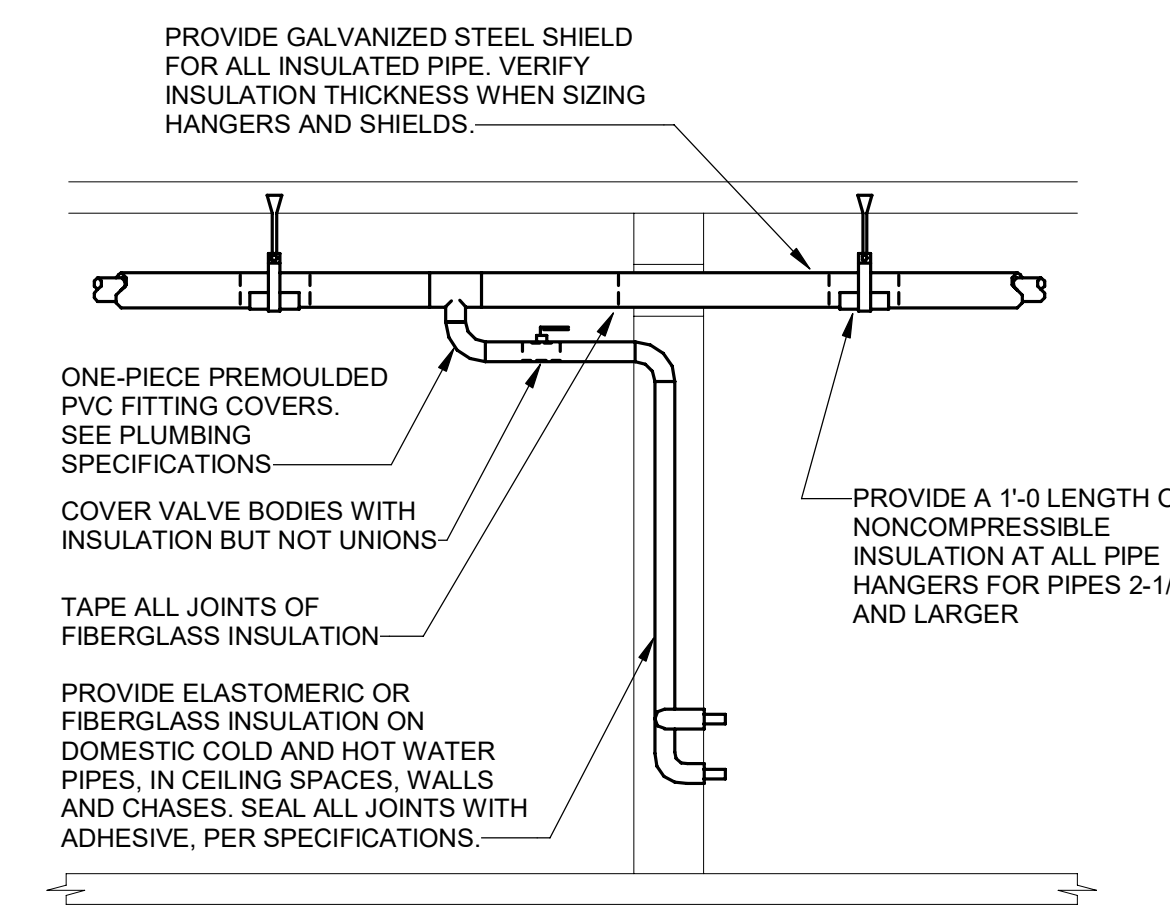
4 PIPE AND TRENCH LOCATION
NOT TO SCALE



5 PIPE HANGER - ANCHOR
NOT TO SCALE

| PIPE SIZE | COPPER PIPE HANGER SPACING | IRON PIPE HANGER SPACING |
|-----------|----------------------------|--------------------------|
| 1/2" | 5'-0" | 7'-0" |
| 3/4" | 5'-0" | 7'-0" |
| 1" | 6'-0" | 7'-0" |
| 1 1/4" | 7'-0" | 8'-0" |
| 1 1/2" | 8'-0" | 9'-0" |
| 2" | 8'-0" | 10'-0" |
| 2 1/2" | 10'-0" | 11'-0" |
| 3" | 11'-0" | 12'-0" |
| 4" | 12'-0" | 12'-0" |

- PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
- DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE AS INDICATED ON TABLE.
- CAST IRON: 10' AND WITHIN 1'-0" OF ALL JOINTS. ROD SIZES FOR PIPE SIZE: 2" AND SMALLER = 3/8", 2 1/2" TO 3" = 1/2", 4" = 5/8", 6" = 3/4", 8" AND LARGER = 7/8".
- LOCATE HANGERS WITHIN 1'-0" OF VALVES AND FITTINGS. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
- LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE.
- DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODE AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF AS REQUIRED BY LOCAL AUTHORITIES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.



6 PIPE INSULATION - ANCHOR
NOT TO SCALE

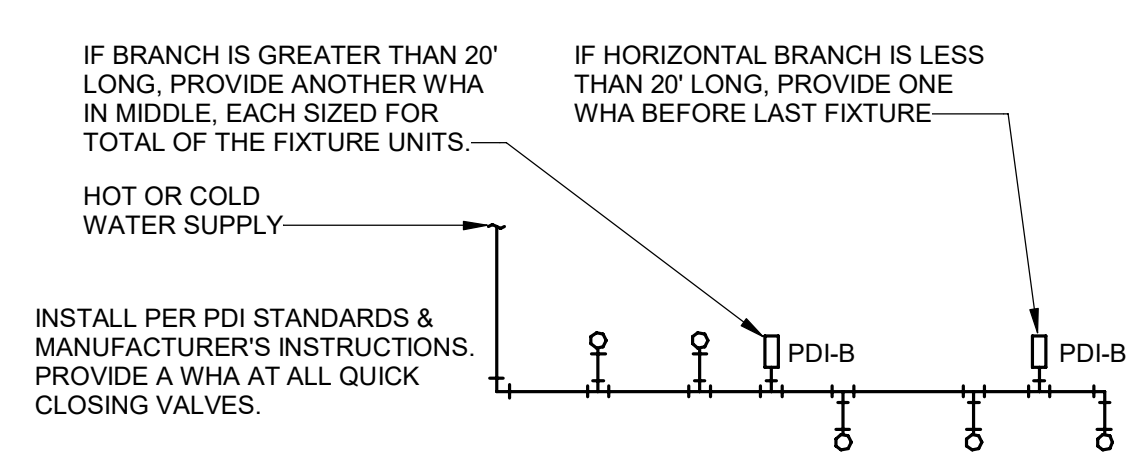
| PLUMBING FIXTURE & CONNECTION SCHEDULE | | | | | | | | | | |
|--|----------------------------------|---------------------|----------------------|----------------|--------|--------|------------------------------|--|--|--|
| MARK | TYPE | DOMESTIC COLD WATER | DOM. HOT WATER 110°F | SANITARY SEWER | TRAP | VENT | MANUFACTURER | MAKE/MODEL | DESCRIPTION | |
| P1A | WATER CLOSET (ADA) FLOOR MOUNTED | 1" | - | 3" | - | 2" | AMERICAN STANDARD | MADERA 3481.001 | RIGHT HEIGHT, FLOOR MTD FLOOR DISCHARGE, WHITE VITREOUS CHINA, 16.5 HEIGHT 1.28 GPF, ELONGATED BOWL, WHITE OPEN FRONT HEAVY DUTY ELONGATED SEAT, SELF-SUSTAINING CHECK HINGES MODEL 5901.100SS, FLUSH VALVE - SENSOR BATTERY, SLOAN REGAL MODEL 111-SFSM-1.28, EXPOSED TOP SPUD CONNECTION | |
| P1 | WATER CLOSET WALL MOUNTED | 1" | - | 3" | - | 2" | AMERICAN STANDARD | AFWALL 2294.011EC | WALL MOUNTED ELONGATED ADA RETROFIT-SET FOR 16.5" HEIGHT 1.28 GPF, ELONGATED BOWL, WHITE OPEN FRONT HEAVY DUTY ELONGATED SEAT, SELF-SUSTAINING CHECK HINGES MODEL 5901.100SS, FLUSH VALVE - SENSOR BATTERY, SLOAN REGAL MODEL 111-SFSM-1.28, EXPOSED TOP SPUD CONNECTION, PROVIDE WITH NEW VERTICAL CLOSET CARRIER, SINGLE OR BACK TO BACK AS REQUIRED, EQUAL TO JR SMITH. | |
| P2 | WALL HUNG LAVATORY (ADA) | 1/2" | 1/2" | 1-1/4" | 1-1/4" | 2" | AMERICAN STANDARD | LUCERNE 0355.912 | WALL HUNG, VITREOUS CHINA, 4" CENTERS, CONCEALED ARMS, PROVIDE AND INSTALL FLOOR MOUNTED CARRIER EQUAL TO JR SMITH 0700-27 SERIES FAUCET: SENSOR - SLOAN MODEL EAF 150-BAT-CP-1.0GPM-LAM-IR-IQ-FCT ADA, PROVIDE WITH UNDER-LAV SLOAN MIX-135-A THERMOSTATIC MIXING VALVE, MEETING ASSE 1070. SET TEMPERATURE AT 105 DEGREES. | |
| P3 | COUNTERTOP LAVATORY (ADA) | 1/2" | 1/2" | 1-1/4" | 1-1/4" | 2" | SOLID SURFACE INTEGRAL BOWLS | BY OTHERS | INTEGRAL BOWL PROVIDED AND INSTALLED BY OTHERS | |
| P4 | WATER COOLER | 1/2" | - | 1-1/2" | 1-1/2" | 1-1/2" | ELKAY | EZH20 LMABFTLBSLWK | WALL MOUNTED, FILTERED 8GPH, STAINLESS STEEL BOWL, W/ STAINLESS STEEL CABINET, ANTIMICROBIAL, MECHANICAL BUBBLER PUSHBAR ACTIVATION, HANDS FREE BOTTLE FILLER INCLUDE APRON TO MAKE ADA COMPLIANT | |
| P5 | EXISTING MOP SINK | 1/2" | 1/2" | 3" | 3" | 1-1/2" | - | - | EXISTING MOP BASIN AND FAUCET, CLEAN TO LIKE NEW CONDITION, PROVIDE 2 SPLASH GUARDS, REPAIR HOSE LEAK, CLEAN DEBRIS FROM DRAIN, PROVIDE INLINE CHECKS ON CW AND HW SUPPLIES ABOVE CEILING. | |
| HB1 | HOSE BIBB | 1/2" | - | - | - | - | WOODFORD | MODEL 26 | FIELD TESTABLE, BACKFLOW PROTECTED WALL FAUCET, POLISH CHROME PLATED, LOOSE KEY | |
| P6 | WALL HUNG LAVATORY | 1/2" | 1/2" | 1 1/4" | - | 2 | GERBER | WEST POINT SPACE SAVER MODEL 12-364 OR EQUAL | 14" X 12" WALL HUNG, VITREOUS CHINA, 4" CENTERS, WALL HANGER. FAUCET: SENSOR - SLOAN MODEL EAF 150-BAT-CP-1.0GPM-LAM-IR-IQ-FCT ADA, PROVIDE WITH UNDER-LAV SLOAN MIX-135-A THERMOSTATIC MIXING VALVE, MEETING ASSE 1070. SET TEMPERATURE AT 105 DEGREES. | |

| CLEANOUT SCHEDULE | | | | | | |
|-------------------|-----------|--------------|---------|------------------------------------|------------------|---------------|
| MARK | DUTY TYPE | MANUFACTURER | MODEL | CLEANOUT TYPE | FULL LINE (SIZE) | DUTY LOCATION |
| FCO | FLOOR | ZURN | ZN-1400 | HEAVY DUTY C. I. TOP W/BRONZE PLUG | 4" | GENERAL |
| WCO | WALL | ZURN | Z-1446 | CAST BRONZE W/STAIN. STEEL COVER | 4" | GENERAL |

NOTES:
A. APPROVED EQUALS: J.R. SMITH, JOSAM.
*ALL EQUIPMENT FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

| DRAIN SCHEDULE | | | | | | | |
|----------------|-----------|--------------|----------|-------------------------|-----------------|------------------|-------|
| MARK | DUTY TYPE | MANUFACTURER | MODEL | DRAIN GRATE TYPE | DRAIN BODY SIZE | P-TRAP PIPE SIZE | NOTES |
| FD-1 | FLOOR | ZURN | ZN 415 S | 6" SQUARE NICKEL BRONZE | SEE PLAN | SEE PLAN | A |

NOTES:
A. PROVIDE ALL FLOOR DRAINS WITH SURE-SEAL TRAP GUARD & DEEP SEAL TRAPS.



| SINGLE/DOUBLE FIXTURE | | | MULTIPLE FIXTURES | | |
|-----------------------|------------|-------------------|-------------------------|------|------|
| PDI UNITS | CONN. SIZE | FIXTURE UNIT LOAD | FIXTURE UNIT TABULATION | | |
| A | 1/2" | 1-11 | VALVE WATER CLOSET | 10 | -- |
| B | 3/4" | 12-32 | TANK WATER CLOSET | 5 | -- |
| C | 1" | 33-60 | URINAL | 5 | -- |
| D | 1" | 61-113 | LAVATORY / SINK | 1.5 | 1.5 |
| E | 1" | 114-154 | JANITOR'S SINK | 2.25 | 2.25 |
| F | 1" | 155-330 | SHOWER/BATHTUB/DF | 2 | 2 |

- FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON & O-RING CONSTRUCTION, WHICH MUST MEET STANDARD PDI-WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN VERTICAL POSITION, BUT NEVER UPSIDE DOWN.
- INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO WHA WHERE REQUIRED BY LOCAL CODE.

7 WATER HAMMER ARRESTERS - WHA
NOT TO SCALE



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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:
PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST, KINSTON, NC 28501

| REVISIONS | | |
|-----------|------|-------------|
| NO. | DATE | DESCRIPTION |
| | | |

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DRAWING NAME
PLUMBING SCHEDULES & DETAILS

DRAWING NO. **P0.2**
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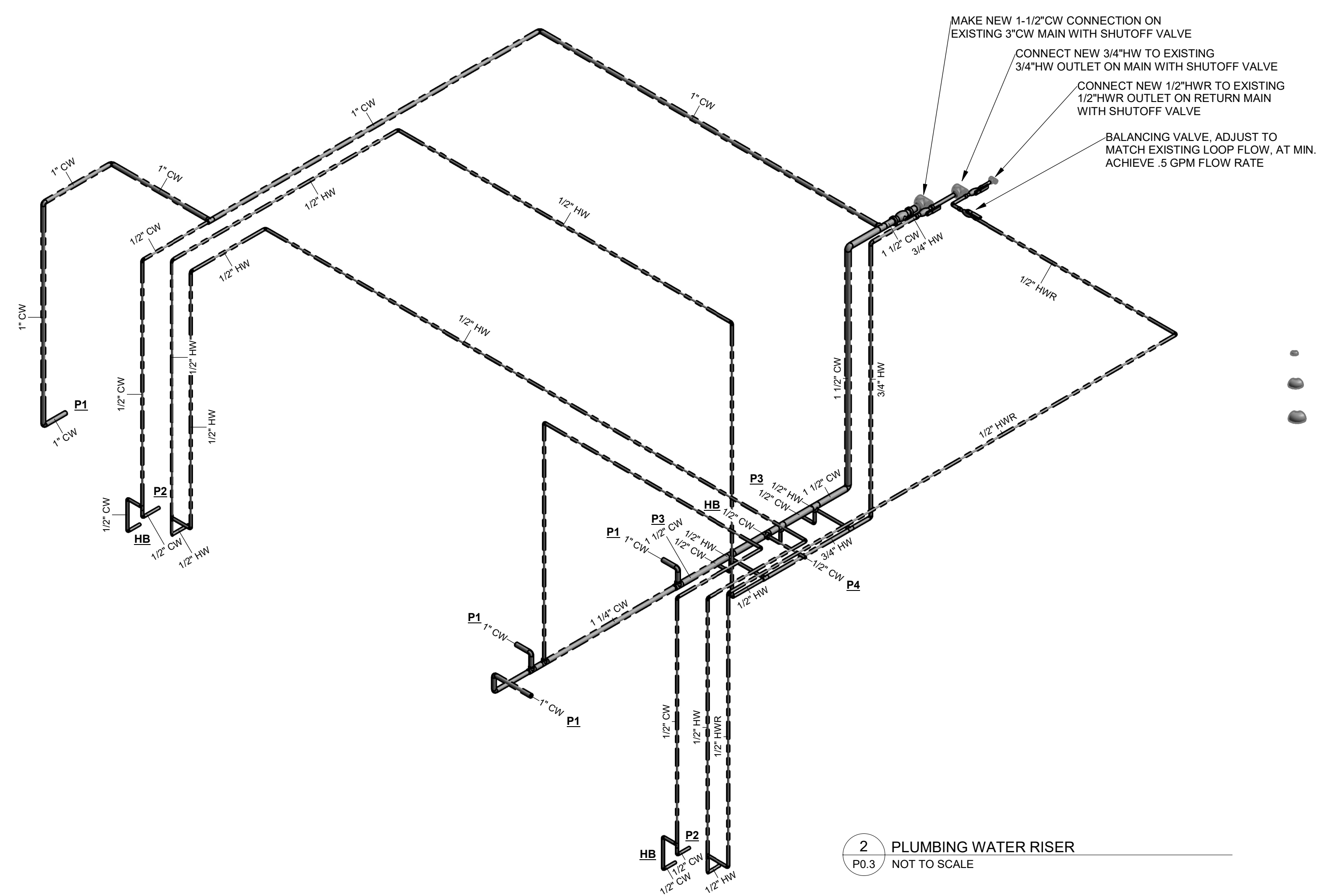
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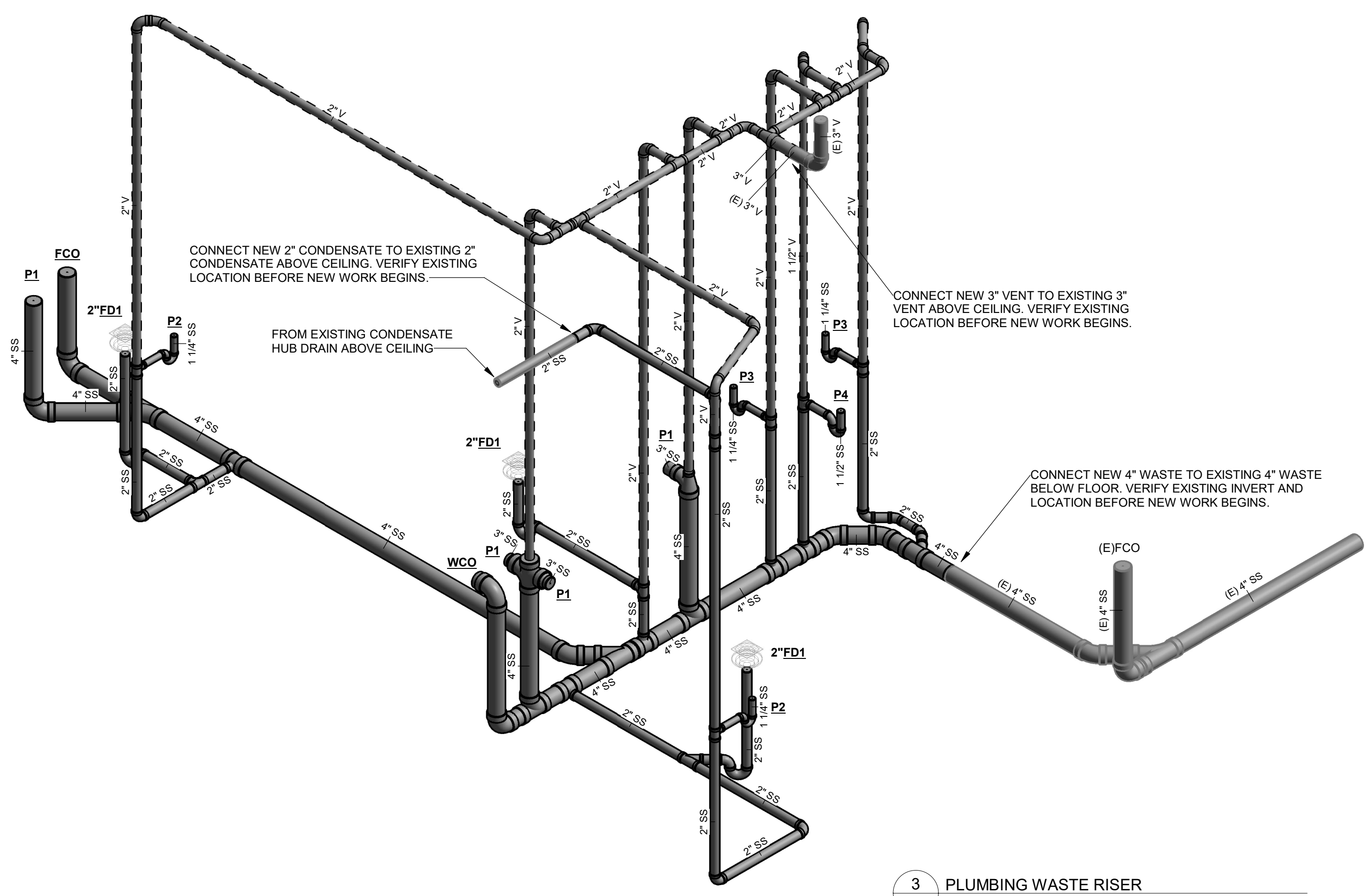
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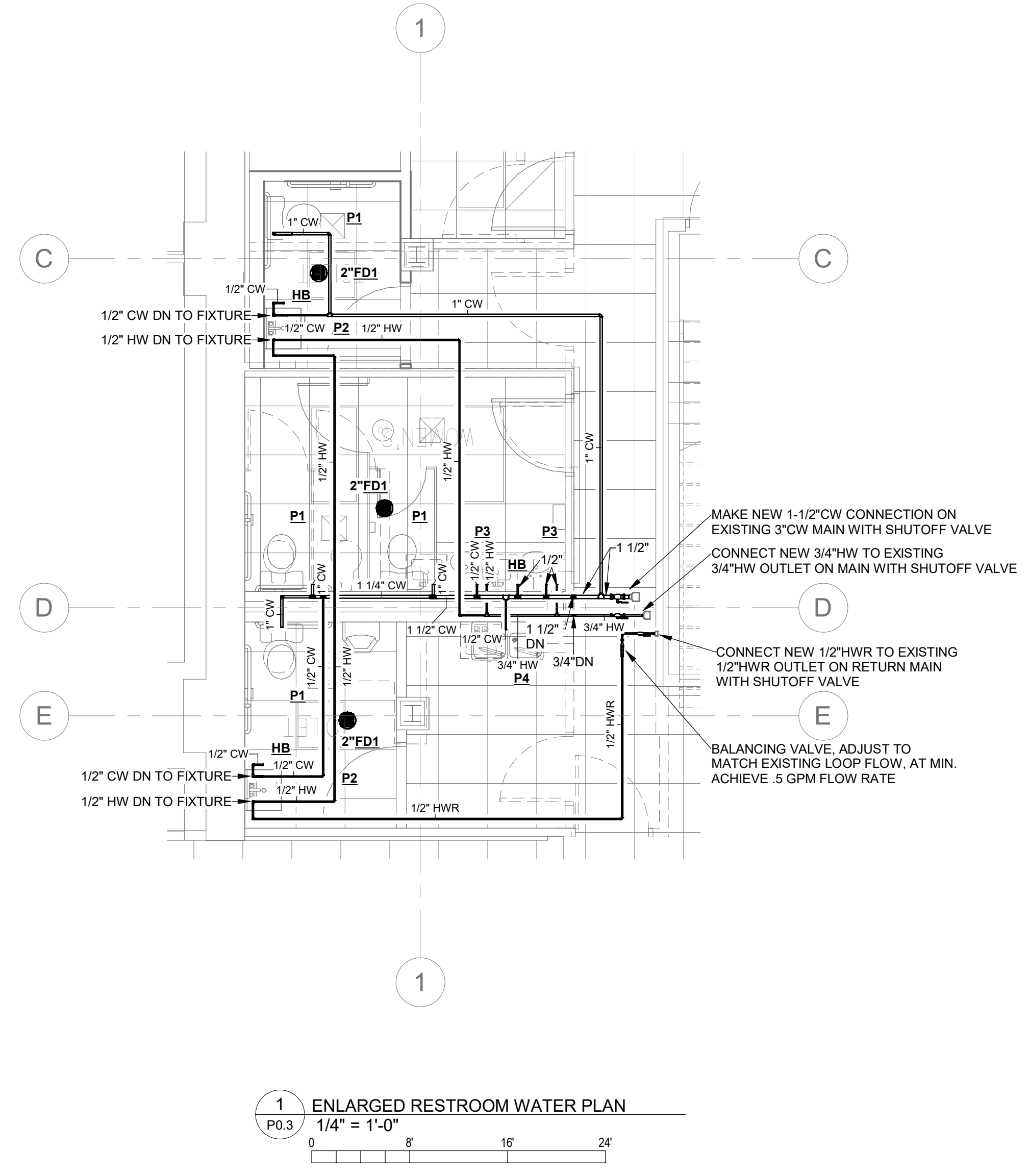
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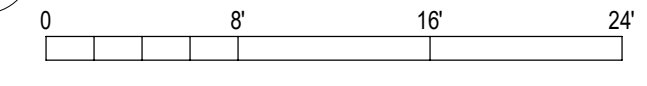
2 PLUMBING WATER RISER
P0.3 NOT TO SCALE



3 PLUMBING WASTE RISER
P0.3 NOT TO SCALE



1 ENLARGED RESTROOM WATER PLAN
1/4\"/>



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DRAWING NAME
PLUMBING RISERS & ENLARGED PLAN

DRAWING NO.
P0.3

Drawn By: DRB Checked By: MAR



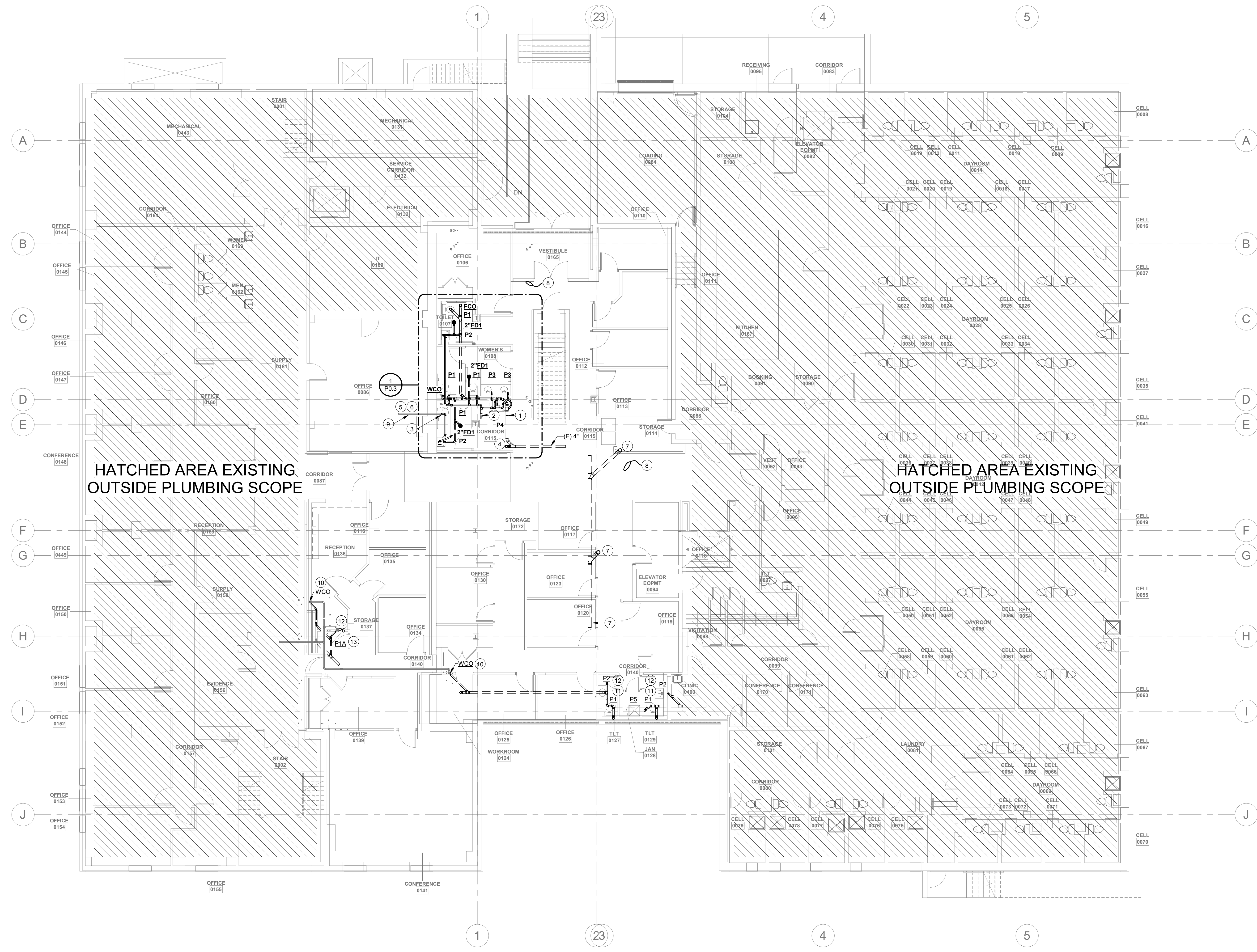
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GENERAL NOTES:

- A. SEE WASTE AND WATER RISERS FOR PIPE SIZING.
- B. COORDINATE VERTICAL STORM AND STACK LOCATIONS WITH WALL FRAMING, G.C. AND ARCHITECTURAL SHEETS.
- C. RECONNECT ALL CONDENSATE DRAINS AS SHOWN. ANY UNFORSEEN CONDENSATE DRAINS SHALL BE RECONNECTED TO NEW WASTE PIPING. MAINTAIN REQUIRED AIR GAPS.
- D. COORDINATE PLACEMENT AND INSTALLATION OF ALL DRAINS AND ASSOCIATED UNDERGROUND PIPING WITH EXISTING STRUCTURAL FOOTINGS AND FOUNDATION. COORDINATE ALL PIPING ELEVATIONS AND DRAIN LOCATIONS WITH FOOTING INVERTS AND CLEARANCES INDICATED IN DETAIL 4/P.2.
- E. MAINTAIN WALL RATING AT ALL PIPE PENETRATIONS AS REQUIRED.
- F. SEE DEMOLITION PLAN FOR ADDITIONAL INFORMATION ON EXISTING CONDITIONS.

KEYED NOTES: #

- (NOT ALL KEYED NOTES MAY APPLY TO THIS SHEET)
- 1. CONNECT NEW 4" WASTE TO EXISTING 4" WASTE BELOW FLOOR. VERIFY EXISTING INVERT AND LOCATION BEFORE NEW WORK BEGINS.
 - 2. CONNECT NEW 3" VENT TO EXISTING 3" VENT ABOVE CEILING. VERIFY EXISTING LOCATION BEFORE NEW WORK BEGINS.
 - 3. CONNECT NEW 2" CONDENSATE TO EXISTING 2" CONDENSATE ABOVE CEILING. VERIFY EXISTING LOCATION BEFORE NEW WORK BEGINS.
 - 4. REMOVE AND RESET/OR REPLACE EXISTING FLOOR CLEANOUT FOR INSTALLATION OF NEW FLOORING. COORDINATE WITH G.C.
 - 5. SEE ENLARGED PLAN FOR WATER PIPING.
 - 6. SEE WASTE RISER FOR PIPE SIZES.
 - 7. EXISTING STORM PIPING TO REMAIN UNDISTURBED.
 - 8. EXISTING CW, HW, AND HWR PIPING. FIELD VERIFY EXACT LOCATION.
 - 9. EXISTING 2" CONDENSATE.
 - 10. INSTALL NEW WALL CLEANOUT AT EXISTING WALL WASTE STUB OUT. ADJUST PIPE AS REQUIRED. COORDINATE WALL REMOVAL WITH G.C. AS REQUIRED. PATCH WALL TO EXISTING CONDITIONS.
 - 11. INSTALL NEW WALL HUNG TOILET ON EXISTING CARRIER. PROVIDE ADAPTER AS REQUIRED. ADJUST CW ROUGH-IN FOR NEW FLUSH VALVE AS REQUIRED.
 - 12. INSTALL NEW WALL HUNG LAVATORY. ADJUST WASTE, CW AND HW AS REQUIRED. ENSURE ADEQUATE WALL BLOCKING IS PROVIDED. IF NOT, INSTALL BLOCKING. COORDINATE WALL REMOVAL WITH G.C.
 - 13. INSTALL NEW FLOOR MOUNTED TOILET ON EXISTING WASTE ROUGH-IN. COORDINATE NEW FIXTURE ROUGH-IN WITH EXISTING CONDITIONS. ADJUST CW ROUGH-IN FOR NEW FLUSH VALVE AS REQUIRED.



HATCHED AREA EXISTING
OUTSIDE PLUMBING SCOPE

HATCHED AREA EXISTING
OUTSIDE PLUMBING SCOPE

1 BASEMENT PLUMBING PLAN
 P1.0
 1/8" = 1'-0"
 0 8 16 24

**LENOIR COUNTY
 COURTHOUSE HVAC &
 BASEMENT
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**PLUMBING BASEMENT
 PLAN**

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