

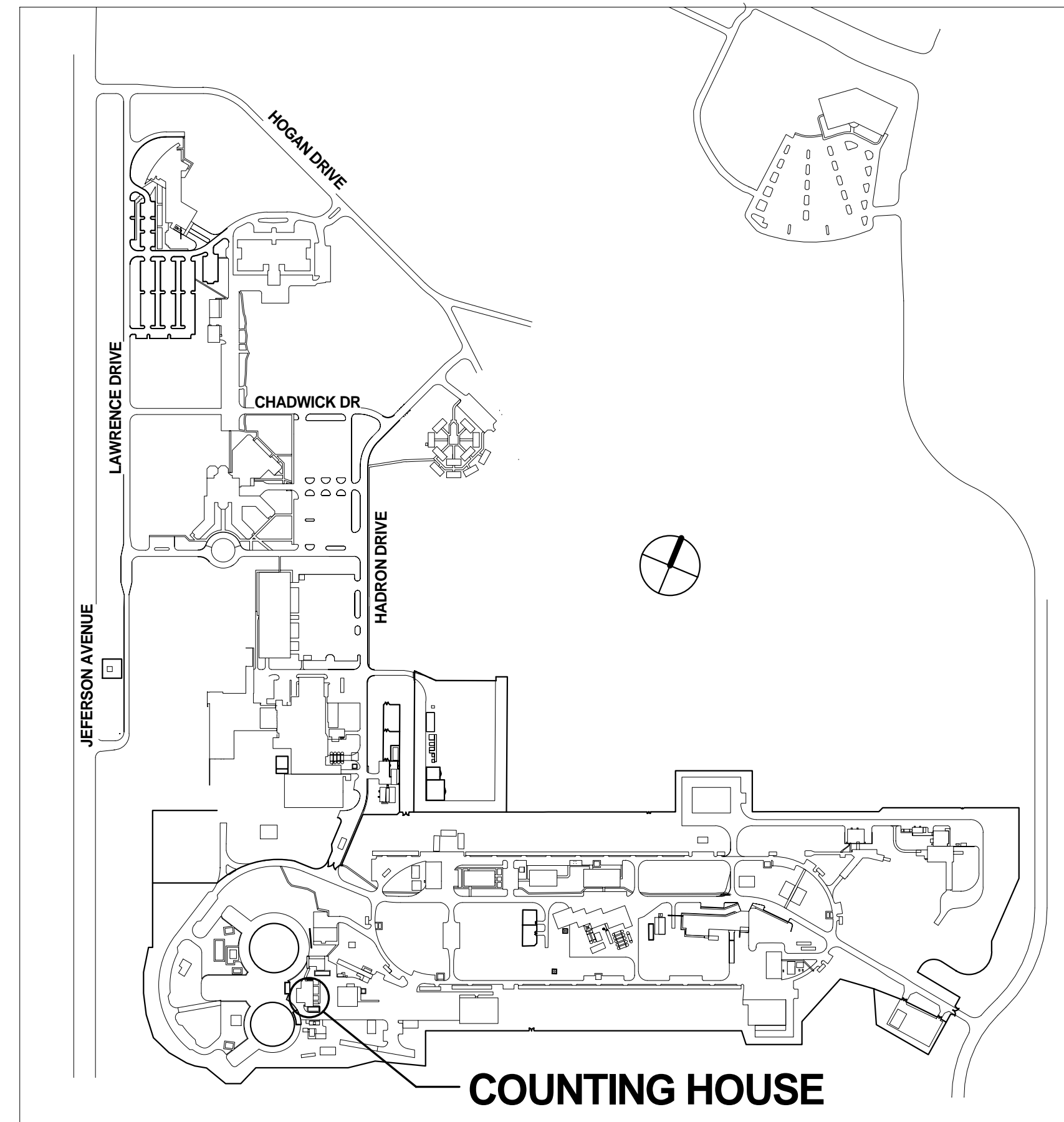
SHEET INDEX			
GRP	SHEET	DRAWING NUMBER	TITLE
0	G0.0		TITLE SHEET
1	A0.1		SITE REFERENCE - LIST OF ADDITIVE ALTERNATES
1	A1.1		DEMOLITION FIRST FLOOR
1	A1.2		DEMOLITION SECOND FLOOR
1	A1.3		REMODEL FIRST FLOOR PLAN
1	A1.4		REMODEL SECOND FLOOR PLAN
1	A1.5		DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN
1	A1.6		DEMOLITION SECOND FLOOR REFLECTED CEILING PLAN
1	A1.7		REMODEL FIRST FLOOR REFLECTED CEILING PLAN
1	A1.8		REMODEL SECOND FLOOR REFLECTED CEILING PLAN
1	A1.9		SCHEDULES
1	A2.1		EXTERIOR ELEVATIONS
1	A2.2		EXTERIOR ELEVATIONS
1	A3.1		ROOF DEMOLITION PLAN
1	A3.2		ROOF PLAN
1	A3.3		ROOF DETAILS
1	A3.4		ROOF DETAILS
1	A3.5		ROOF DETAILS
1	A4.1		BUILDING SECTIONS
1	A5.1		DETAILS
2	S1.1		FOUNDATION PLAN
2	S1.2		SECOND FLOOR/LOW ROOF FRAMING PLAN
2	S1.3		ROOF FRAMING PLAN
2	S3.1		SECTIONS
2	S5.1		TYPICAL DETAILS
3	P0.1		PLUMBING SCHEDULES, NOTES, AND LEGEND
3	P1.1		FIRST FLOOR PLAN - PLUMBING - DEMOLITION - BASE BID + ADDITIVE ALTERNATE 4
3	P1.2		SECOND FLOOR PLAN - PLUMBING - DEMOLITION - BASE BID + ADDITIVE ALTERNATE 4
3	P2.1		FIRST FLOOR PLAN - PLUMBING - NEW WORK - ADDITIVE ALTERNATE 4
3	P2.2		SECOND FLOOR PLAN - PLUMBING - ADDITIVE ALTERNATE 4
3	SP0.1		FIRE RISER, LEGEND AND GENERAL NOTES
3	SP1.1		FLOOR PLANS - SPRINKLER - DEMOLITION - ADDITIVE ALTERNATE 5
3	SP2.1		SECOND FLOOR PLAN - SPRINKLER - NEW WORK - ADDITIVE ALTERNATE 5
4	M0.1		LEGEND, ABBREVIATIONS AND GENERAL NOTES
4	M0.2		MECHANICAL SCHEDULES
4	M0.3		MECHANICAL SCHEDULES
4	M1.1		FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - BASE BID
4	M1.2		SECOND FLOOR PLAN - MECHANICAL - DEMOLITION - BASE BID
4	M1.3		FIRST AND SECOND FLOOR PLAN - DEMOLITION - ADDITIVE ALTERNATE
4	M1.4		ROOF PLAN - DEMOLITION - BASE BID
4	M2.1		FIRST AND SECOND FLOOR PLAN - MECHANICAL - NEW WORK - BASE BID
4	M2.2		FIRST AND SECOND FLOOR PLAN - MECHANICAL - NEW WORK - ADD ALTERNATE NO.5
4	M2.3		FIRST AND SECOND FLOOR PLAN - MECHANICAL - NEW WORK - PIPING - ADD ALTERNATE NO.5
4	M2.4		ROOF PLAN - MECHANICAL
4	M2.5		ENLARGED PLAN - MECHANICAL - NEW WORK
4	M3.1		MECHANICAL DETAILS
4	M3.2		FIRE STOP DETAILS
4	M3.3		FIRE STOP DETAILS
4	M3.4		VRF SYSTEM PIPING SCHEMATIC - ADD ALTERNATE NO.5
5	E0.1		ELECTRICAL LEGEND AND ABBREVIATIONS
5	E1.1		FIRST FLOOR PLAN - DEMOLITION - BASE BID
5	E1.2		SECOND FLOOR PLAN - DEMOLITION - BASE BID
5	E1.3		FIRST FLOOR PLAN - DEMOLITION - ADD ALTERNATE
5	E1.4		SECOND FLOOR PLAN - DEMOLITION - LIGHTING - ADD ALTERNATE
5	E1.5		SECOND FLOOR PLAN - DEMOLITION - POWER AND AUXILIARY SYSTEMS - ADD ALTERNATE
5	E2.1		FIRST FLOOR PLAN - NEW WORK - LIGHTING - BASE BID
5	E2.2		ROOF PLAN - HVAC POWER - BASE BID
5	E2.3		FIRST FLOOR PLAN - NEW WORK - LIGHTING - ADD ALTERNATE
5	E2.4		SECOND FLOOR PLAN - NEW WORK - LIGHTING - ADD ALTERNATE
5	E2.5		FIRST FLOOR PLAN - NEW WORK - HVAC POWER - ADD ALTERNATE
5	E2.6		SECOND FLOOR PLAN - NEW WORK - POWER - ADD ALTERNATE
5	E2.7		SECOND FLOOR PLAN - NEW WORK - HVAC POWER
5	E2.8		ROOF PLAN - HVAC POWER - ADD ALTERNATE
5	E3.1		FIRST FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS - ADD ALTERNATE
5	E3.2		SECOND FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS - ADD ALTERNATE
5	E3.3		ROOF PLAN - LIGHTNING PROTECTION SYSTEM

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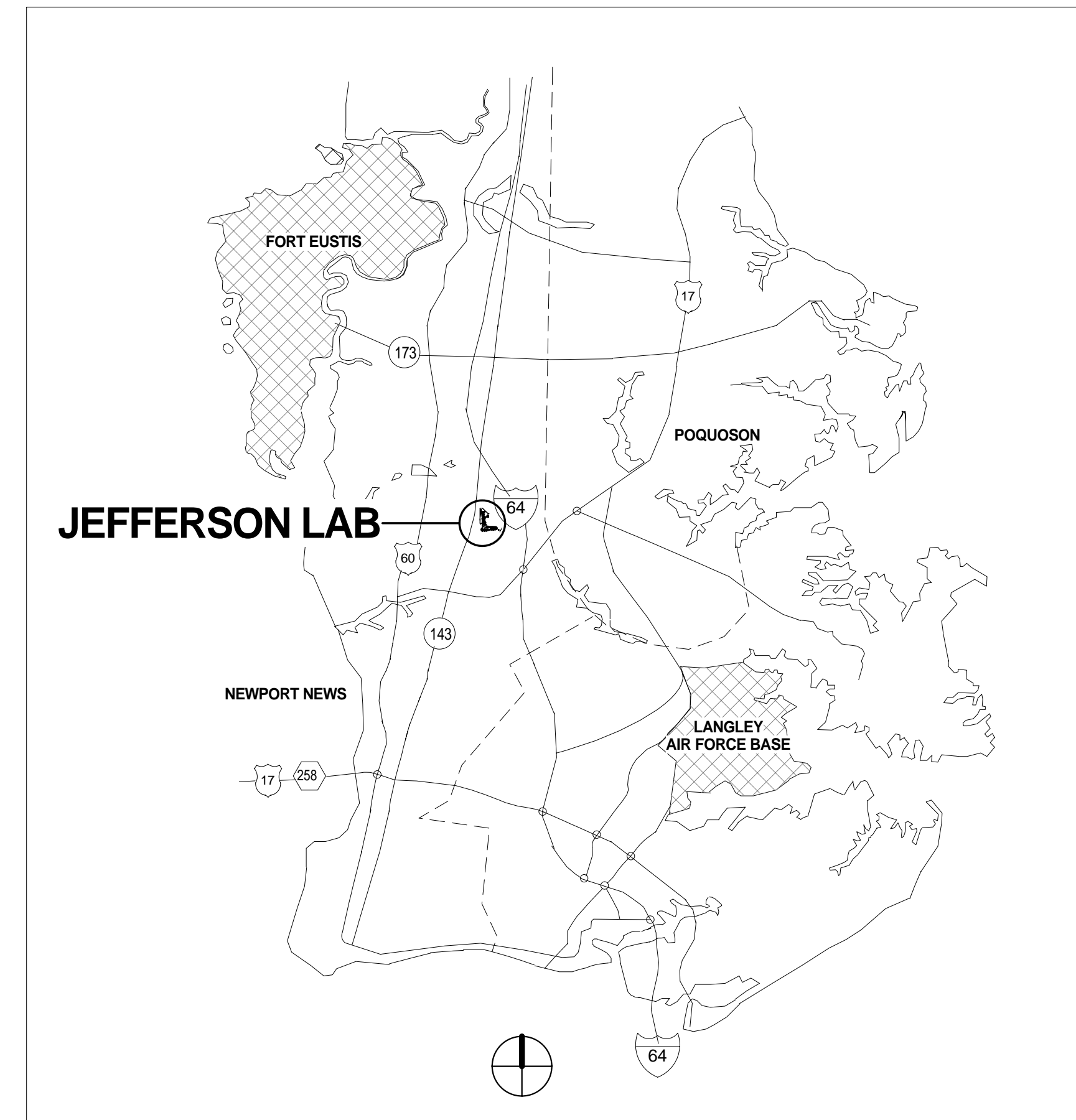
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Jefferson Lab

Thomas Jefferson National Accelerator Facility
NEWPORT NEWS, VIRGINIA 23606
UNITED STATES DEPARTMENT OF ENERGY
JSA 11-C1987: TASK ORDER #002 - COUNTING HOUSE RENOVATIONS



LOCATION MAP



VICINITY MAP

JEFFERSON SCIENCE ASSOCIATES, LLC

OWNER CONTACTS:
JEFFERSON LAB:
12000 JEFFERSON AVENUE
NEWPORT NEWS, VA 23606
DESIGN PROJECT MANAGER:
CHRISTINE SNETTER
757-269-7318

COUNTING HOUSE REN.
TITLE SHEET

SCALE	DRAWING NUMBER	SHEET	REV
		G0.0	

LIST OF ADDITIVE ALTERNATES

BASE BID:

- A) REPLACEMENT OF EXISTING HVAC UNITS WITH CRAC UNITS SERVING ONLY THE FIRST FLOOR COMPUTER/CONTROL AREAS
- B) BUILDING ENCLOSURE AND ROOF FOR THESE CRAC UNITS
- C) ROOFING REPLACEMENT INCLUDING PROVISIONS FOR ROOF MOUNTED CONDENSING UNIT EQUIPMENT RAILS PROVIDED FOR EQUIPMENT UNDER BOTH THE BASE BID AND PROPOSED ALTERNATE(S).
- D) DEMOLITION OF ROOF-TOP HVAC SYSTEM FOR SECOND FLOOR ALONG WITH ASSOCIATED DUCTWORK (CURRENTLY NOT UTILIZED).
- E) SECOND FLOOR WINDOW REPLACEMENT
- F) NEW EXTERIOR DOOR WEATHERSTRIP AND ADD DRIP AT DOOR SHOE
- G) INSTALL FIRE RATED PENETRATIONS AT SECOND FLOOR PENETRATIONS
- H) LANDSCAPE REMOVAL AND CLEAN-UP
- I) ELECTRICAL MODIFICATIONS/ADDITIONS TO SUPPORT THE INSTALLATION OF NEW CRAC UNITS UNDER BASE BID. ELECTRICAL INFRASTRUCTURE (LARGE PANELS, ETC) NEEDED FOR PURPOSED SECOND FLOOR IMPROVEMENTS.
- J) BUILDING DDC SYSTEM UPGRADES NECESSARY TO ACCOMMODATE BASE BID AND INFRASTRUCTURE FOR SECOND FLOOR BUILD OUT.
- K) REPAINT ALL PAINTED SURFACES ON FIRST FLOOR
- L) REPLACE ALL CEILING PANELS ON FIRST FLOOR
- M) INSTALL NEW VGT ON FIRST FLOOR AT EXISTING VGT LOCATIONS
- N) REPLACE DAMAGED COMPUTER FLOOR TILES (20% MAX) AND PROVIDE PERFORATED PANELS AT LOCATIONS SHOWN ON MECH PLANS.

ADDITIVE ALTERNATE 1: LIGHTING UPGRADES, CHANGE TO TO LED LIGHTS AND ADD OCCUPANCY CONTROLS FIRST FLOOR

ADDITIVE ALTERNATE 2: WHOLE BUILDING FIRE ALARM REPLACEMENT.

ADDITIVE ALTERNATE 3: ELEVATOR REBUILD (SEE SPECIFICATIONS)

ADDITIVE ALTERNATE 4: RESTROOM REFURBISHMENT, BOTH FLOORS

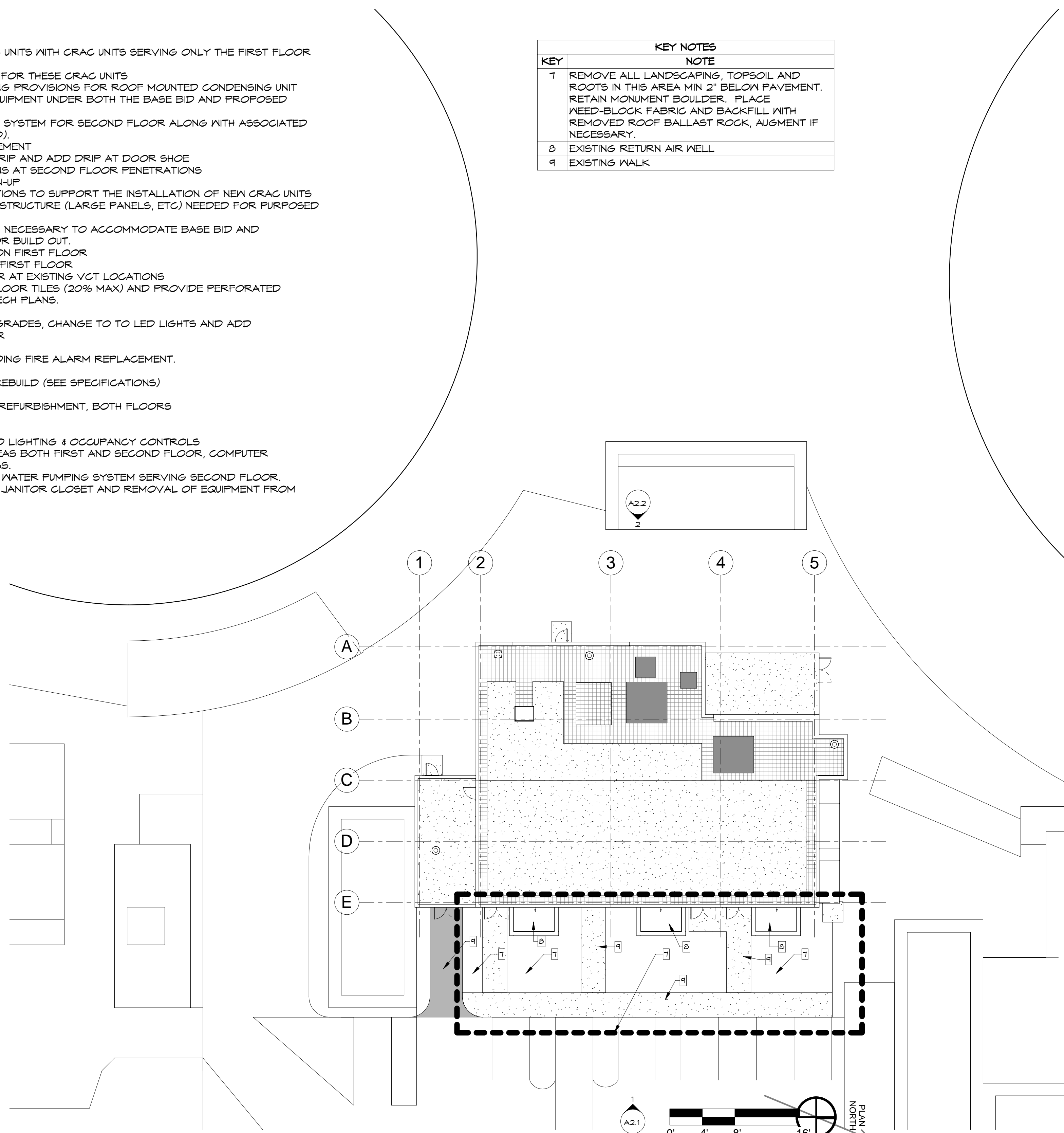
ADDITIVE ALTERNATE 5:

- A) SECOND FLOOR BUILD-OUT W/LED LIGHTING & OCCUPANCY CONTROLS
- B) VRF HVAC FOR ALL COMMON AREAS BOTH FIRST AND SECOND FLOOR, COMPUTER CONTROL ROOMS, AND OFFICE AREAS.
- C) DEMOLITION OF EXISTING CHILLED WATER PUMPING SYSTEM SERVING SECOND FLOOR.
- D) REFURBISHMENT OF FIRST FLOOR JANITOR CLOSET AND REMOVAL OF EQUIPMENT FROM CLOSET.

KEY	NOTE
1	REMOVE ALL LANDSCAPING, TOPSOIL AND ROOTS IN THIS AREA MIN 2" BELOW PAVEMENT. RETAIN MONUMENT BOULDER. PLACE WEED-BLOCK FABRIC AND BACKFILL WITH REMOVED ROOF BALLAST ROCK, AUGMENT IF NECESSARY.
8	EXISTING RETURN AIR WELL
9	EXISTING WALK



GOOGLE EARTH IMAGE



1 DEMOLITION SITE PLAN
1/16" = 1'-0"

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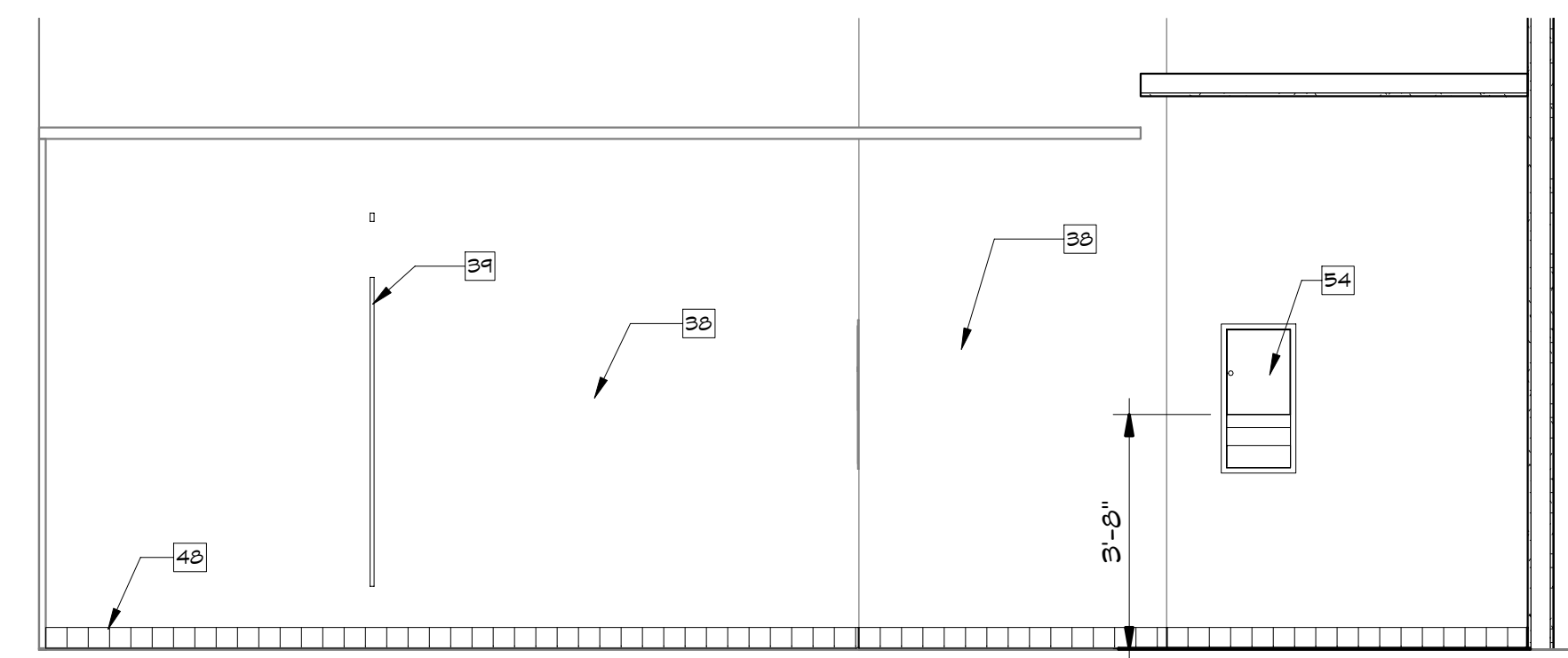
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REVISIONS				
JEFFERSON LAB		RANCORN WILDMAN Architects, PLC		
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SME CHECKED		CHECKED	NCR	02/29/2012
FM&L APPROVED		APPROVED		Approver
United States Department of Energy		Newport News, VA		

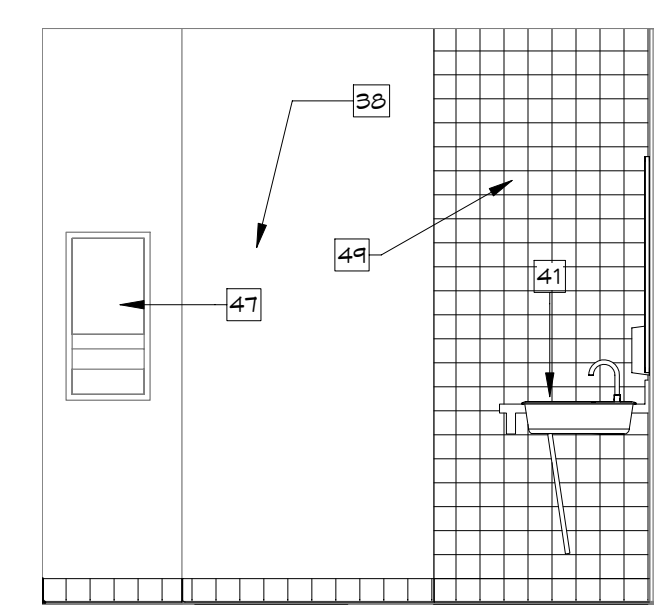
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**COUNTING HOUSE REN.
SITE REFERENCE - LIST OF ADDITIVE
ALTERNATES**

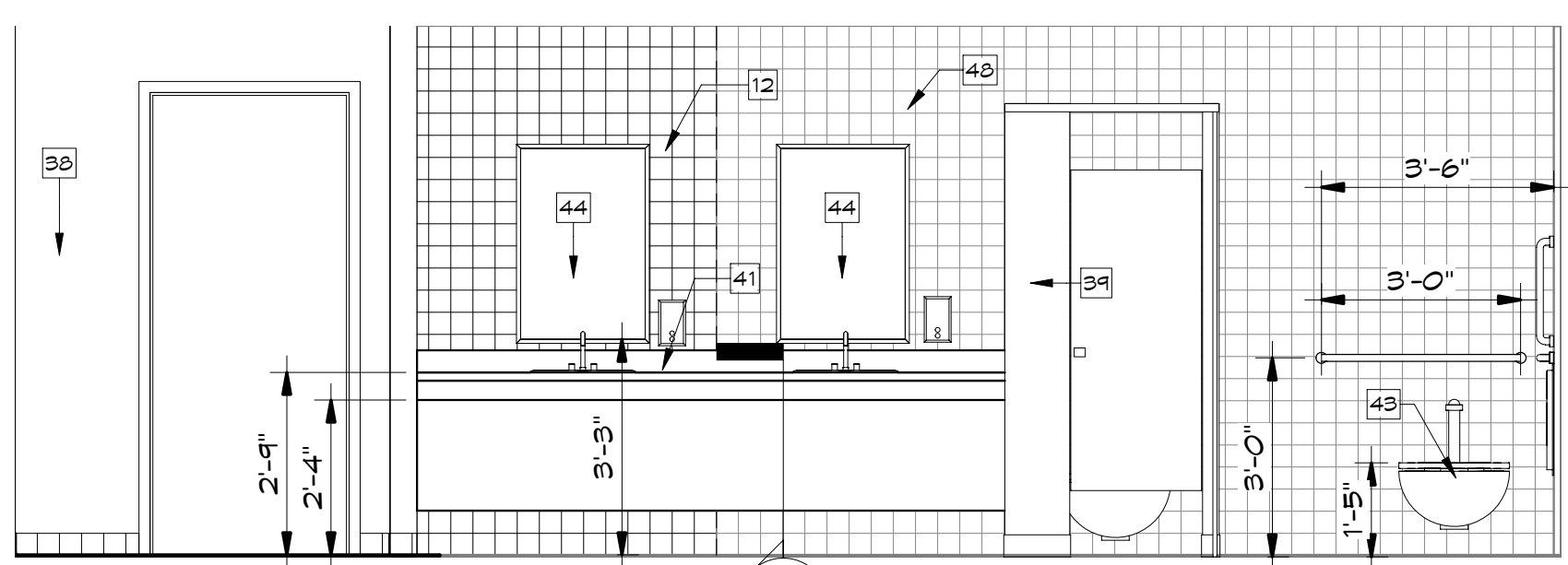
SCALE	DRAWING NUMBER	SHEET	REV
1/16" = 1'-0"		A01	



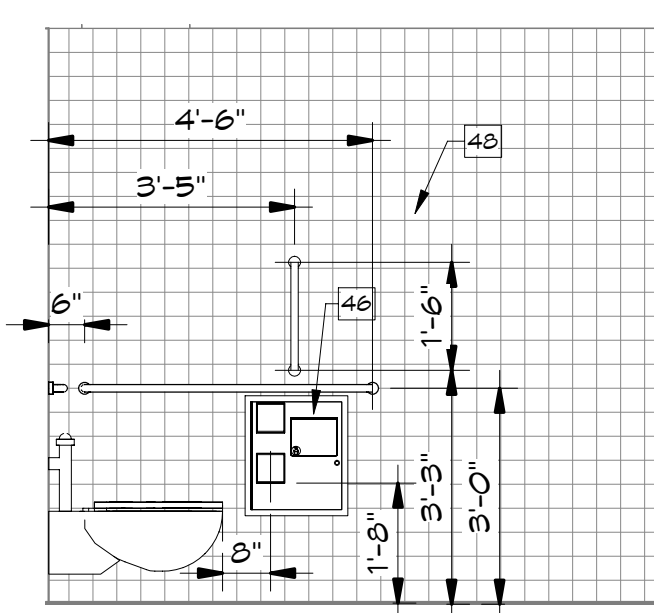
5 LADIES - B
A1.4 3/8" = 1'-0"



4 LADIES - C
A1.4 3/8" = 1'-0"



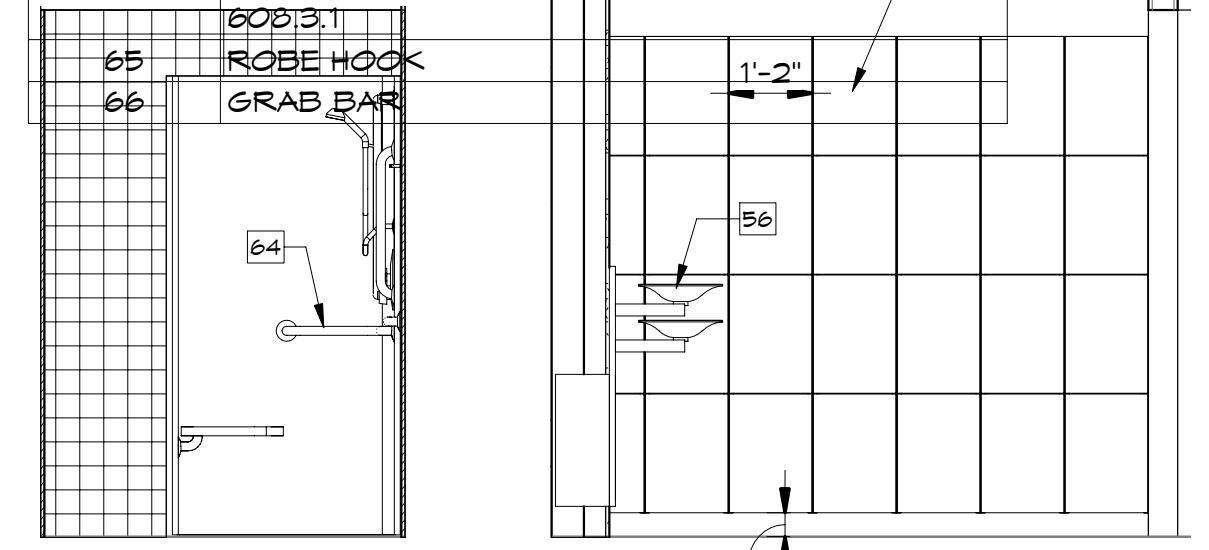
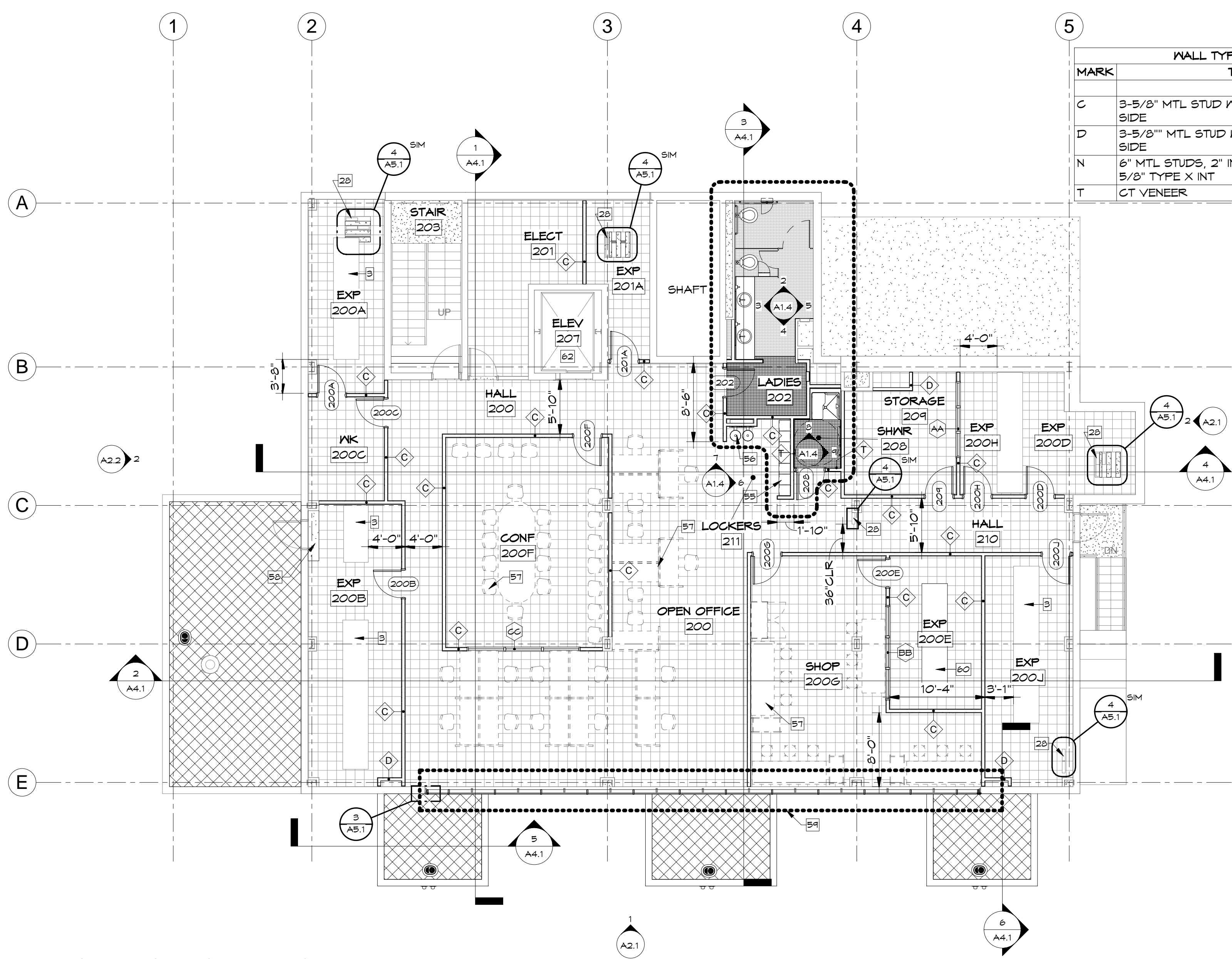
3 LADIES - D
A1.4 3/8" = 1'-0"



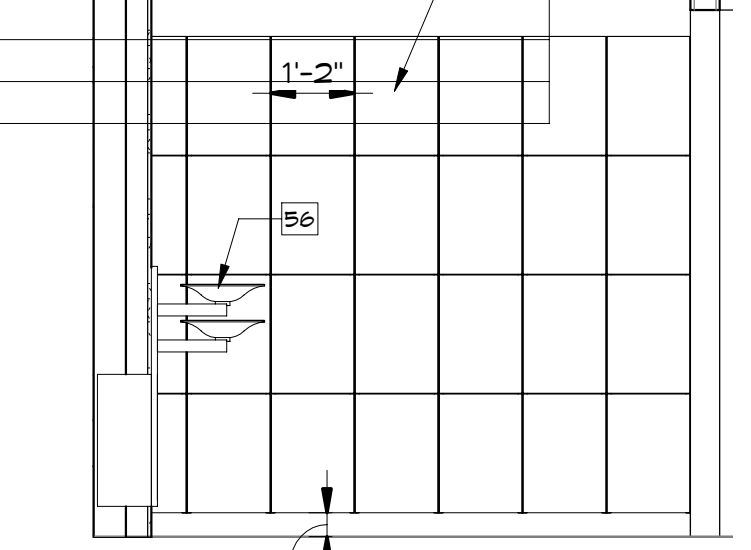
2 LADIES - A
A1.4 3/8" = 1'-0"

KEY NOTES	
KEY	NOTE
3	EXISTING DATA RACK TO REMAIN
12	REMOVE EXISTING WINDOW SYSTEM FOR REPLACEMENT. PROTECT BUILDING FROM WEATHER AS REQUIRED.
28	EXISTING CABLE TRAY TO REMAIN
38	NEW PAINT
39	NEW TOILET PARTITION
41	NEW SOLID-SURFACE COUNTER TOP, APRON AND BACKSPASH WITH SELF-RIMMING SINK. PROVIDE SUPPORT BRACES @ 48" MAX O.C. WITH REMOVABLE APRON PANEL.
43	NEW TOILET
44	NEW MIRROR
46	NEW COMBINATION TOILET PAPER DISPENSER AND S.N.DISPOSAL
47	EXISTING PAPER TOWEL DISPENSER TO REMAIN
48	REFURBISH EXISTING CERAMIC TILE
49	NEW CERAMIC TILE
54	NEW PAPER TOWEL DISPENSER
55	NEW LOCKERS
56	NEW DRINKING FOUNTAIN
57	FURNITURE BY OTHERS
58	PROVIDE 12" H CONG STEP
59	NEW STOREFRONT GLAZING SYSTEM
60	SPACE FOR DATA RACKS BY OTHERS
62	SEE SPECIFICATIONS FOR ELEVATOR IMPROVEMENT ALTERNATE
64	MANUFACTURED ACCESSIBLE SHOWER FULLY MEETING ANSI a117.1-2003 SECTIONS 602.2.1.5.2

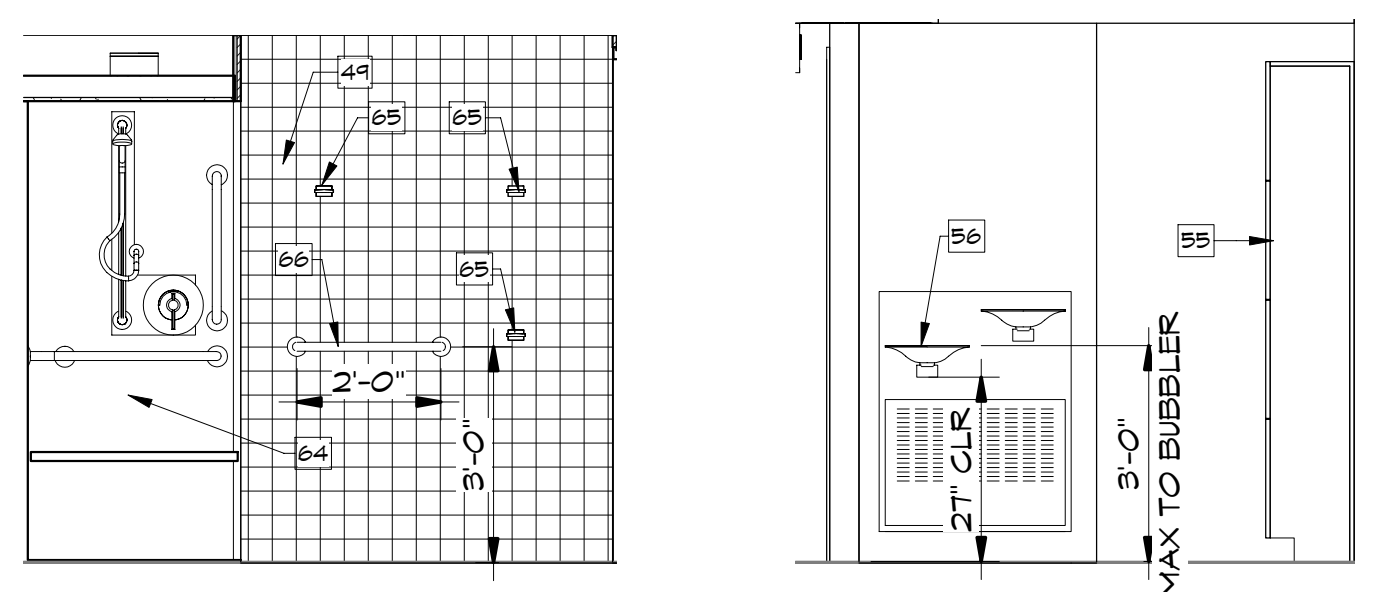
WALL TYPE KEY	
MARK	TYPE
C	3-5/8" MTL STUD W/ 5/8" GYP BD EACH SIDE
D	3-5/8" MTL STUD W/ 5/8" GYP BD EXP SIDE
N	6" MTL STUDS, 2" INSUL PNL EXT, R-19, 5/8" TYPE X INT
T	GT VENEER



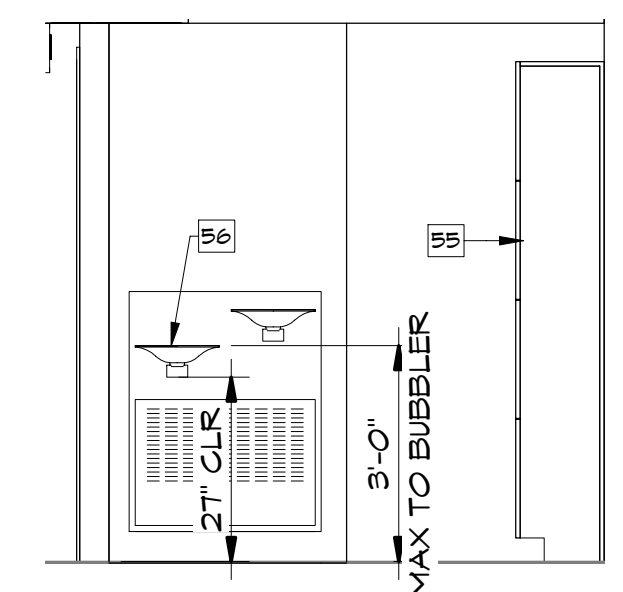
8 SHOWER 3
A1.4 3/8" = 1'-0"



6 LOCKERS
A1.4 3/8" = 1'-0"



9 SHOWER 4
A1.4 3/8" = 1'-0"



7 DRINKING FOUNTAIN
A1.4 3/8" = 1'-0"

1 REMODEL SECOND FLOOR
A1.4 1/8" = 1'-0"

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SME CHECKED		CHECKED	NCR	02/29/2012
FM&L APPROVED		APPROVED		Approver
United States Department of Energy				Newport News, VA



COUNTING HOUSE REN. REMODEL SECOND FLOOR PLAN

SCALE	DRAWING NUMBER	SHEET	REV
As indicated		A1.4	

1 2 3 4 5 6

A

B

C

D

A

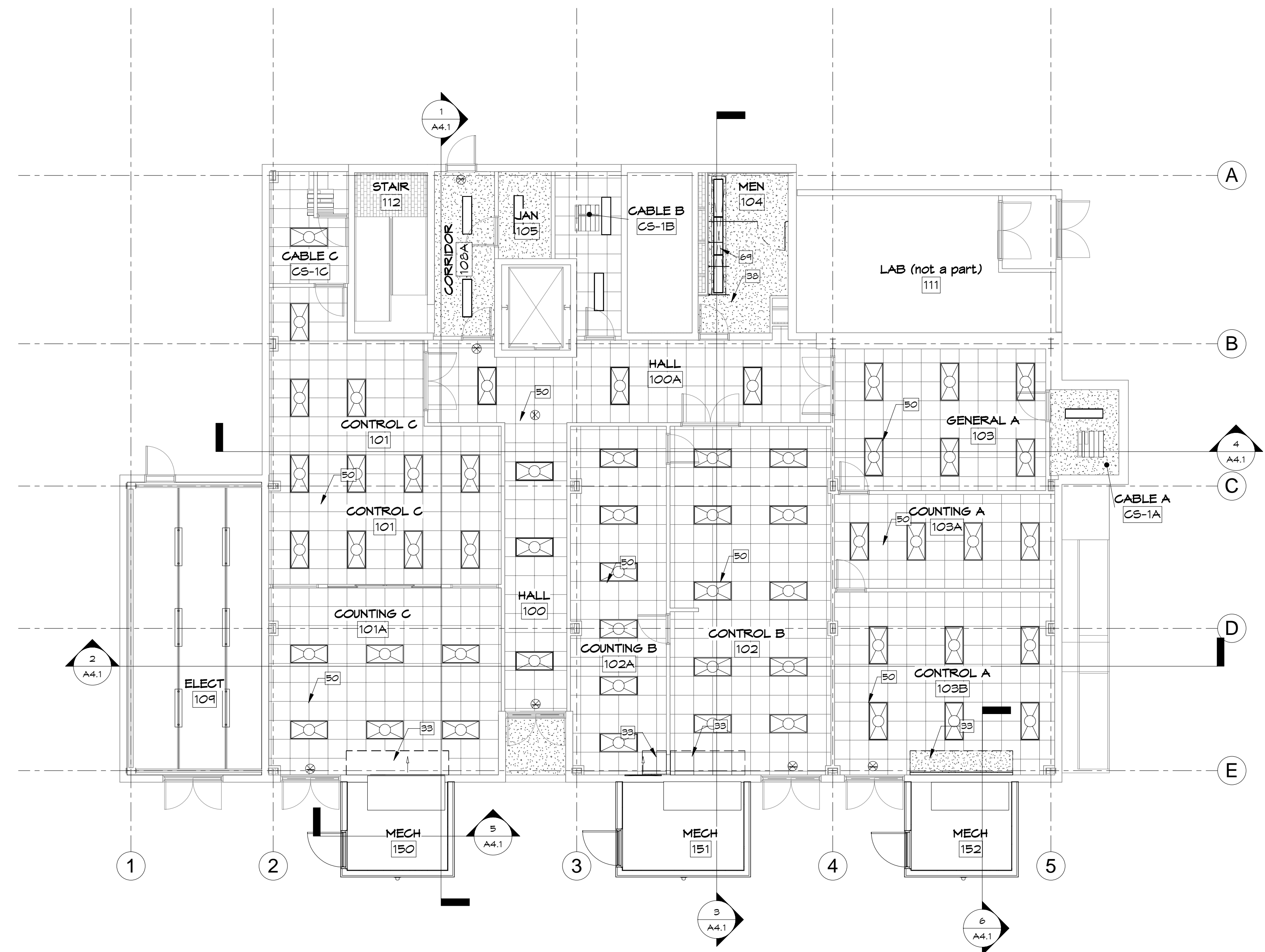
B

C

D

KEY NOTES	
KEY	NOTE
33	REPAIR CEILING GRID AND REPLACE CEILING PANELS AT PREVIOUS RETURN AIR AREA
38	NEW PAINT
50	EXISTING SUSPENDED ACOUSTIC CEILING, REPLACE TILES IN EXISTING GRID. ALLOW 20% GRID REPLACEMENT IN BASE BID
69	REPLACE EXISTING EGG-CRATE DIFFUSER WITH NEW CHROME-COATED PARABOLIC GRID

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SME CHECKED		CHECKED	DATE
FM&L APPROVED		APPROVED	DATE
United States Department of Energy		Newport News, VA	

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COUNTING HOUSE REN. REMODEL FIRST FLOOR REFLECTED CEILING PLAN

1 REMODEL FIRST FLOOR REFLECTED CEILING PLAN
 1/8" = 1'-0"

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		A1.7	

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1 2 3 4 5 6

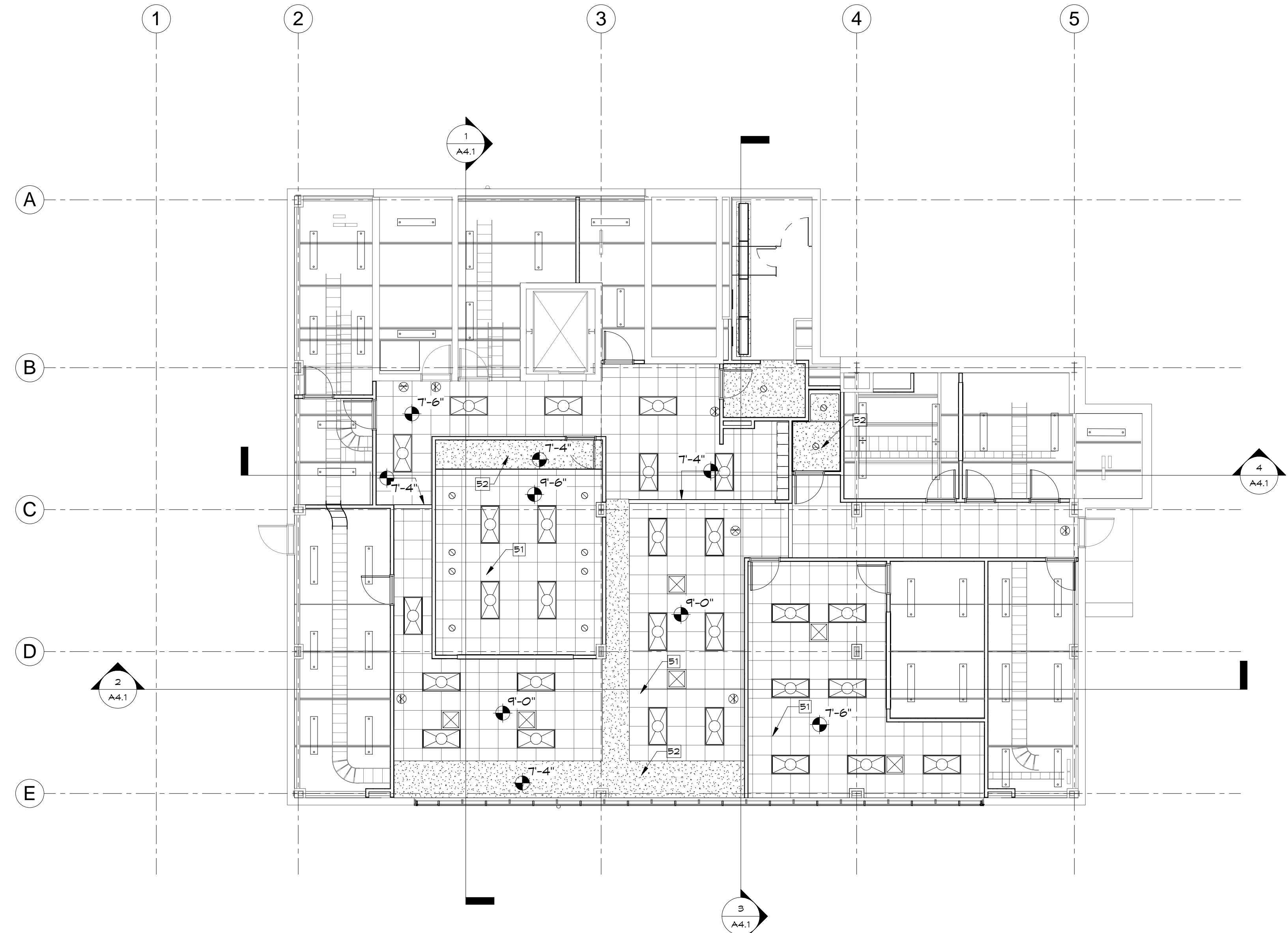
1 2 3 4 5 6

A
B
C
D

KEY NOTES	
KEY	NOTE
B1	NEW SUSPENDED ACOUSTIC PANEL CEILING GRID AND PANELS
B2	NEW 5/8" TYPE X GYP BD CEILING OVER METAL JOIST FRAMING

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1 REMODEL SECOND FLOOR REFLECTED CEILING PLAN
A1.8 1/8" = 1'-0"

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REMODEL SECOND FLOOR
REFLECTED CEILING PLAN

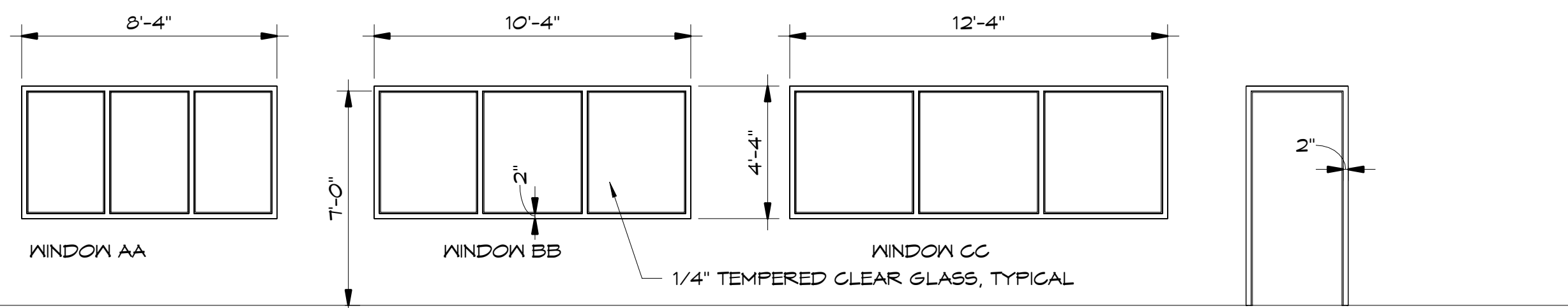
SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		A1.8	

2/29/2012 11:37:44 AM

1 2 3 4 5 6

DOOR SCHEDULE									
MARK	EXISTING	PAIR	WIDTH	HEIGHT	Thickness	FRAME TYPE	HDNR	REMARKS	
101A	Yes	Yes	6'-0"	T-0"	1 3/4"	HM	7	REPLACE WEATHERSTRIPPING, ADD SHOE DRIP	
102	Yes	Yes	6'-0"	T-0"	1 3/4"	HM	7	REPLACE WEATHERSTRIPPING, ADD SHOE DRIP	
103B	Yes	Yes	6'-0"	T-0"	1 3/4"	HM	7	REPLACE WEATHERSTRIPPING, ADD SHOE DRIP	
150			3'-8"	T-0"	1 3/4"	HM	1		
151			3'-8"	T-0"	1 3/4"	HM	1		
152			3'-8"	T-0"	1 3/4"	HM	1		
200A			3'-0"	T-0"	1 3/4"	HM	4		
200B			3'-0"	T-0"	1 3/4"	HM	4		
200C			3'-0"	T-0"	1 3/4"	HM	5		
200D			3'-0"	T-0"	1 3/4"	HM	4		
200E			3'-0"	T-0"	1 3/4"	HM	4		
200F			3'-0"	T-0"	1 3/4"	HM	5		
200G			3'-0"	T-0"	1 3/4"	HM	4		
200H			3'-0"	T-0"	1 3/4"	HM	4		
200J			3'-0"	T-0"	1 3/4"	HM	4		
201A			3'-0"	T-0"	1 3/4"	HM	4		
202			3'-0"	T-0"	1 3/4"	HM	6		
208			3'-0"	T-0"	1 3/4"	HM	2		
209			3'-0"	T-0"	1 3/4"	HM	3		

FINISH SCHEDULE						
NUMBER	NAME	FLOOR	WALL	CEILING	BASE	COMMENTS
100	HALL	VCT	PAINT	ACP	RESILIENT	
100A	HALL	VCT	PAINT	ACP	RESILIENT	
101	CONTROL C	ACCESS FLOOR	PAINT	ACP	RESILIENT	
101A	COUNTING C	ACCESS FLOOR	PAINT	ACP	RESILIENT	
102	CONTROL B	ACCESS FLOOR	PAINT	ACP	RESILIENT	
102A	COUNTING B	ACCESS FLOOR	PAINT	ACP	RESILIENT	
103	GENERAL A	ACCESS FLOOR	PAINT	ACP	RESILIENT	
103A	COUNTING A	ACCESS FLOOR	PAINT	ACP	RESILIENT	
103B	CONTROL A	ACCESS FLOOR	PAINT	ACP	RESILIENT	
104	MEN	CERAMIC TILE	CT/PAINT	PAINT	COVERED CT	
105	JAN	SEALED CONG	PAINT	PAINT	COVERED CT	
108A	CORRIDOR	SEALED CONG	PAINT	ACP	RESILIENT	
109	ELECT	SEALED CONG	--	--	--	--
111	LAB (not a part)	--	--	--	--	--
112	STAIR	SEALED CONG	PAINT	PAINT	PAINT	
150	MECH	SEALED CONG	PAINT	PAINT	RESILIENT	
151	MECH	SEALED CONG	PAINT	PAINT	RESILIENT	
152	MECH	SEALED CONG	PAINT	PAINT	PAINT	
200	OPEN OFFICE	CARPET	PAINT	--	RESILIENT	
200	HALL	CARPET	PAINT	ACP/PAINT GWB	RESILIENT	
200A	EXP	VCT	PAINT	EXPOSED	RESILIENT	
200B	EXP	VCT	PAINT	EXPOSED	RESILIENT	
200C	WK	VCT	PAINT	EXPOSED	RESILIENT	
200D	EXP	VCT	PAINT	EXPOSED	RESILIENT	
200E	EXP	VCT	PAINT	EXPOSED	RESILIENT	
200F	CONF	CARPET	PAINT	ACP/PAINT GWB	RESILIENT	
200G	SHOP	VCT	PAINT	ACP	RESILIENT	
200H	EXP	VCT	PAINT	EXPOSED	RESILIENT	
200J	EXP	VCT	PAINT	EXPOSED	RESILIENT	
201	ELECT	VCT	PAINT	EXPOSED	RESILIENT	
201A	EXP	VCT	PAINT	EXPOSED	RESILIENT	
202	LADIES	CERAMIC TILE	CT/PAINT	PAINT	COVERED CT	
203	STAIR	SEALED CONG	PAINT	PAINT	--	
207	ELEV	VCT	MFR	MFR	MFR	
208	SHWR	MFR/CT	MFR/CT	PAINT	COVERED CT	
209	STORAGE	VCT	PAINT	EXPOSED	RESILIENT	
210	HALL	VCT	PAINT	ACP	RESILIENT	
211	LOCKERS	VCT	PAINT	ACP	RESILIENT	
CS-1A	CABLE A	ACCESS FLOOR	PAINT	PAINT	RESILIENT	
CS-1B	CABLE B	ACCESS FLOOR	PAINT	ACP	RESILIENT	
CS-1C	CABLE C	ACCESS FLOOR	PAINT	ACP	RESILIENT	



HM FRAMES

1/4" = 1'-0"

FLOORING
CFT CERAMIC FLOOR TILE:
 CFT 1 DAL TILE D138, GOLDEN GRANITE (FIELD AND BASE)
 CFT 2 DAL TILE D209, NAVY SPECKLE (ACCENT)
 GROUT- LATICRETE, 85, ALMOND
 PATTERN- DAL TILE NO. 3009

CMT CERAMIC WALL TILE:
 CMT 1 DAL TILE SEMI-GLOSS K165, ALMOND (FIELD AND BASE)
 CMT 2 DAL TILE SEMI-GLOSS O144, ARTISAN BROWN 5% RANDOM

NOTE:
VCT VINYL COMPOSITION TILE:
 VCT 1 ARMSTRONG 51810, WASHED LINEN (FIELD)
 VCT 2 ARMSTRONG 51878, GOLDEN (ACCENT)
 VCT 3 ARMSTRONG 51946, GENTIAN BLUE (ACCENT)

CPT CARPET:
 CPT 1 BIGELO, BARRIER ISLAND II, BLUE LAGOON - 07583

RESILIENT BASE:
 MATCH JOHNSONITE 80 FAWN

WALLS: (MATCH THE FOLLOWING COLORS)
 PNT PAINT :
 PNT 1 SHERWIN WILLIAMS, SPANISH WHITE, #05 WALLS THROUGHOUT

HOLLOW METAL FRAMES AND HOLLOW METAL DOORS:
 INTERIOR
 PNT 2 MATCH BASE COLOR
 EXTERIOR
 MATCH INSULATED METAL PANEL ACCENT COLOR

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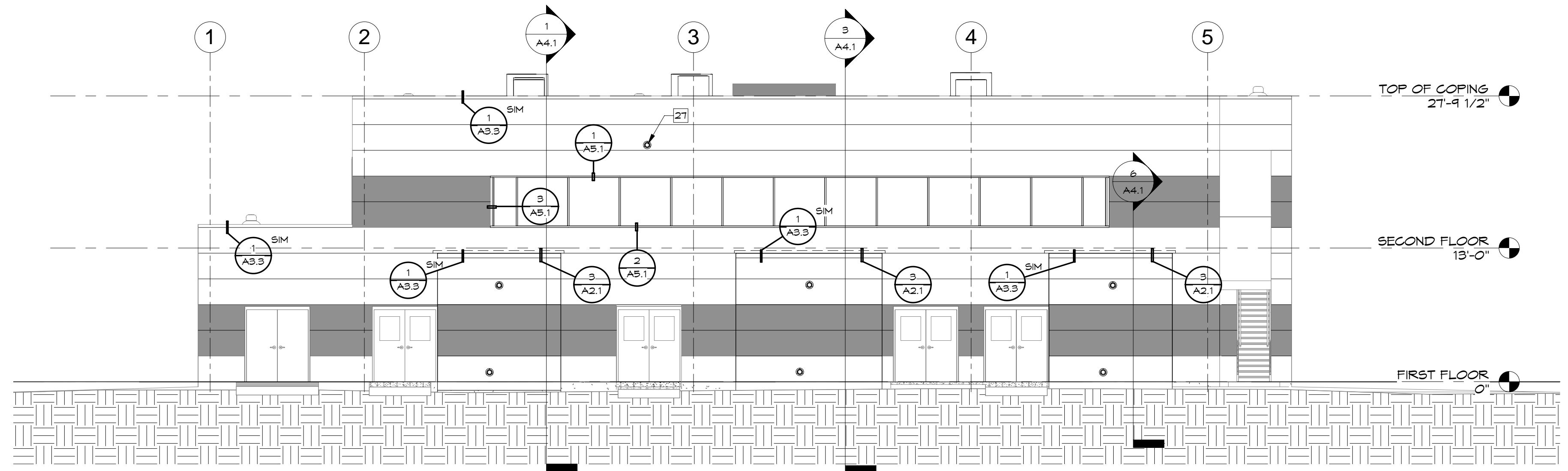
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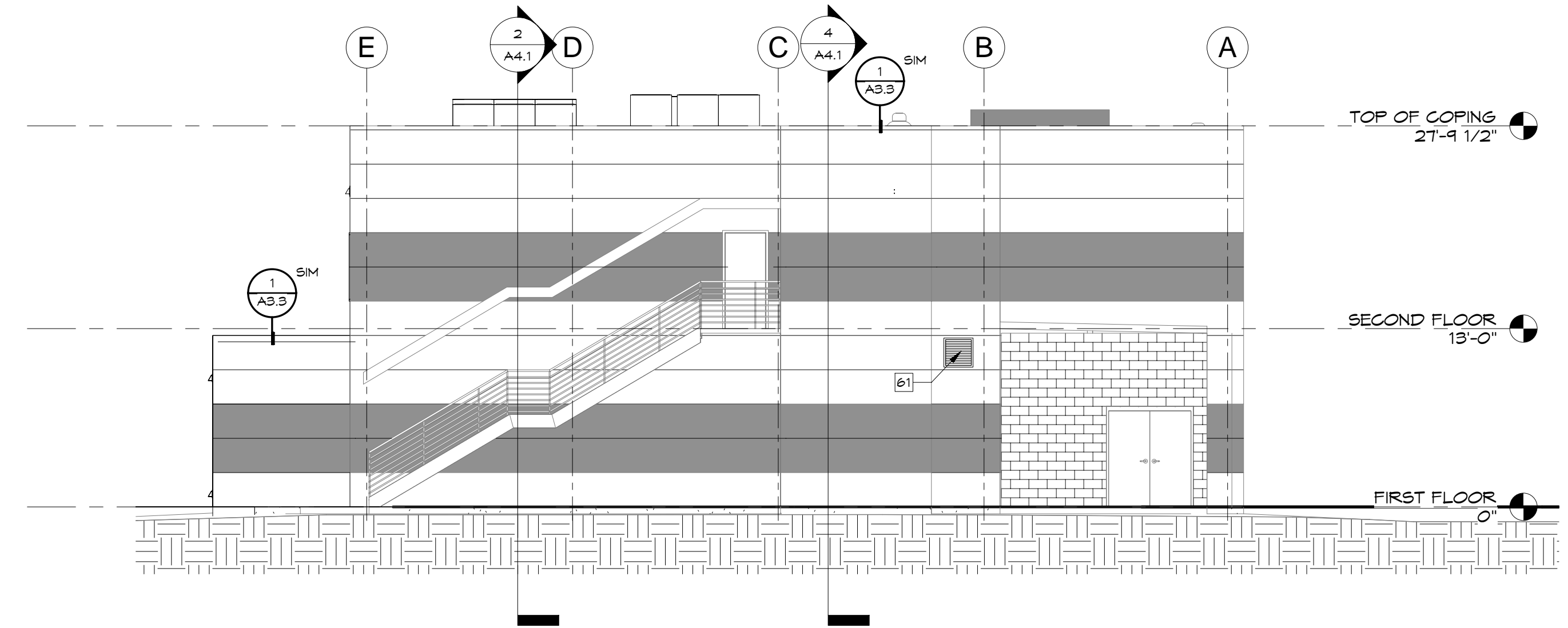
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 SCHEDULES**

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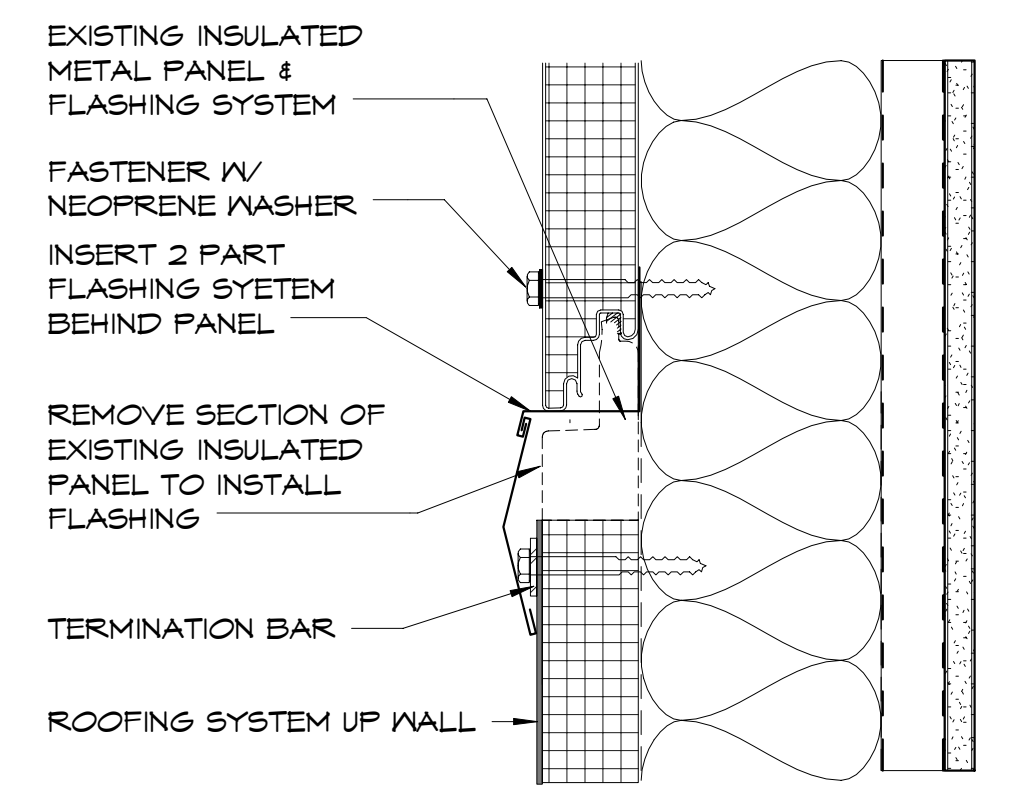
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1 EAST BUILDING ELEVATION
1/8" = 1'-0"



2 NORTH BUILDING ELEVATION
1/8" = 1'-0"



3 FLASHING AT EXIST WALL
3" = 1'-0"

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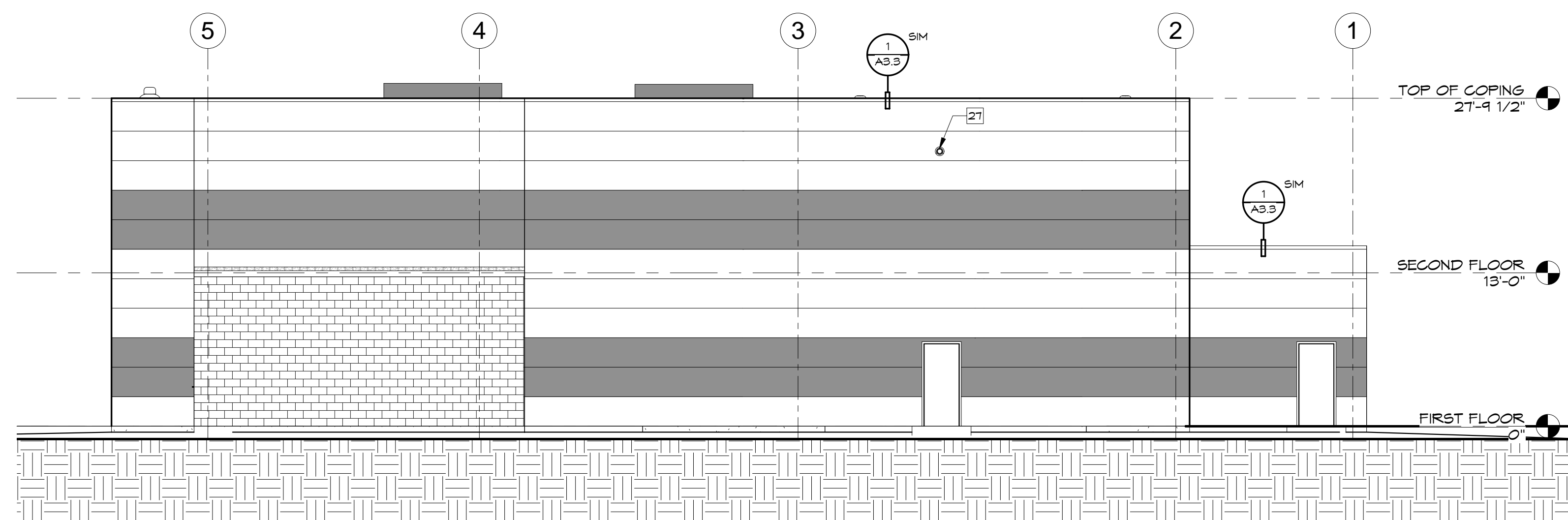
**COUNTING HOUSE REN.
EXTERIOR ELEVATIONS**

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As indicated		A2.1	

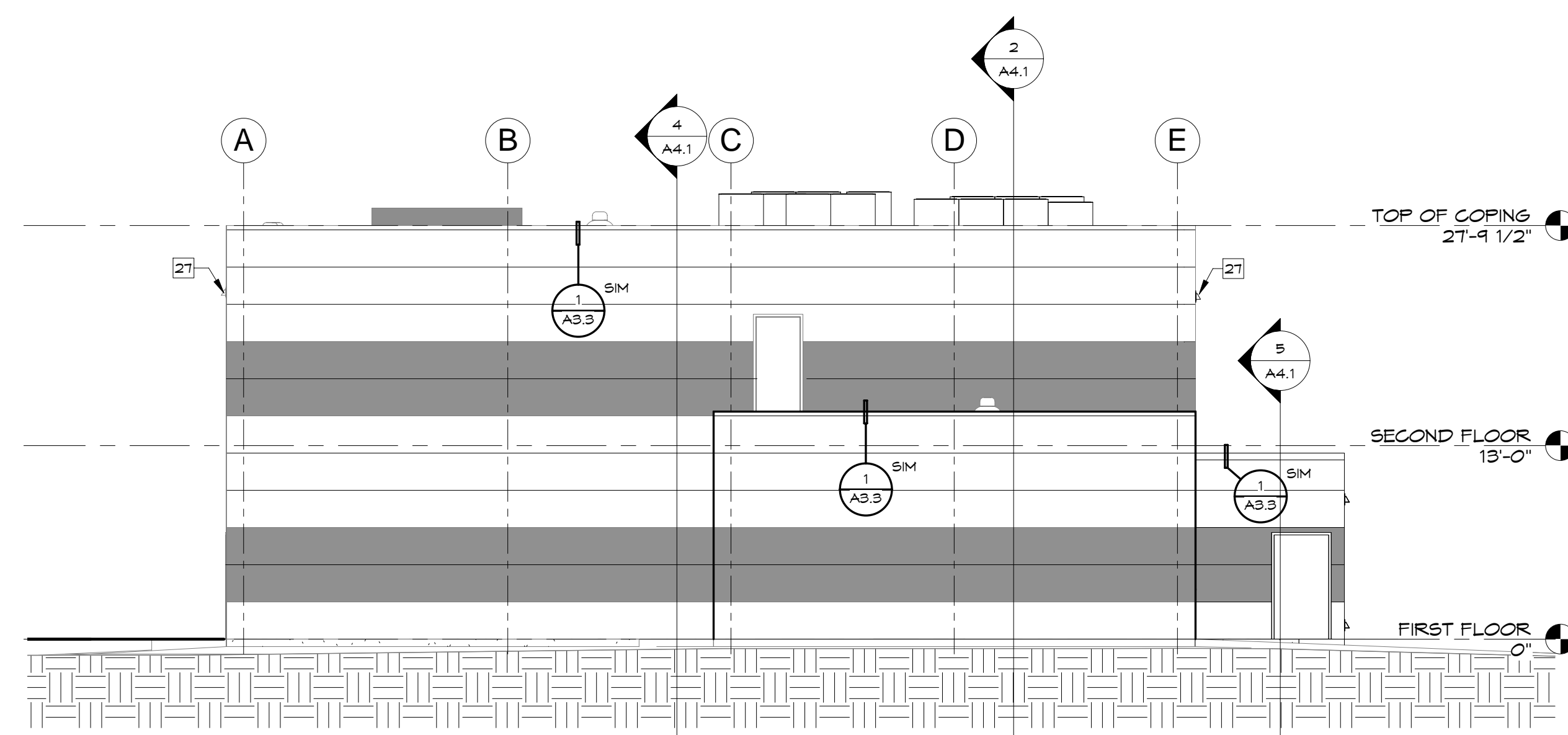
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WEST BUILDING ELEVATION
1/8" = 1'-0"



SOUTH BUILDING ELEVATION
1/8" = 1'-0"

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**COUNTING HOUSE REN.
EXTERIOR ELEVATIONS**

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		A2.2	

1 2 3 4 5 6

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KEY NOTES	
KEY	NOTE
19	EXISTING ROOFING TO REMAIN
20	EXISTING ROOFING, BALLAST, LIGHTNING PROTECTION, AND ROOF COPING TO BE REPLACED

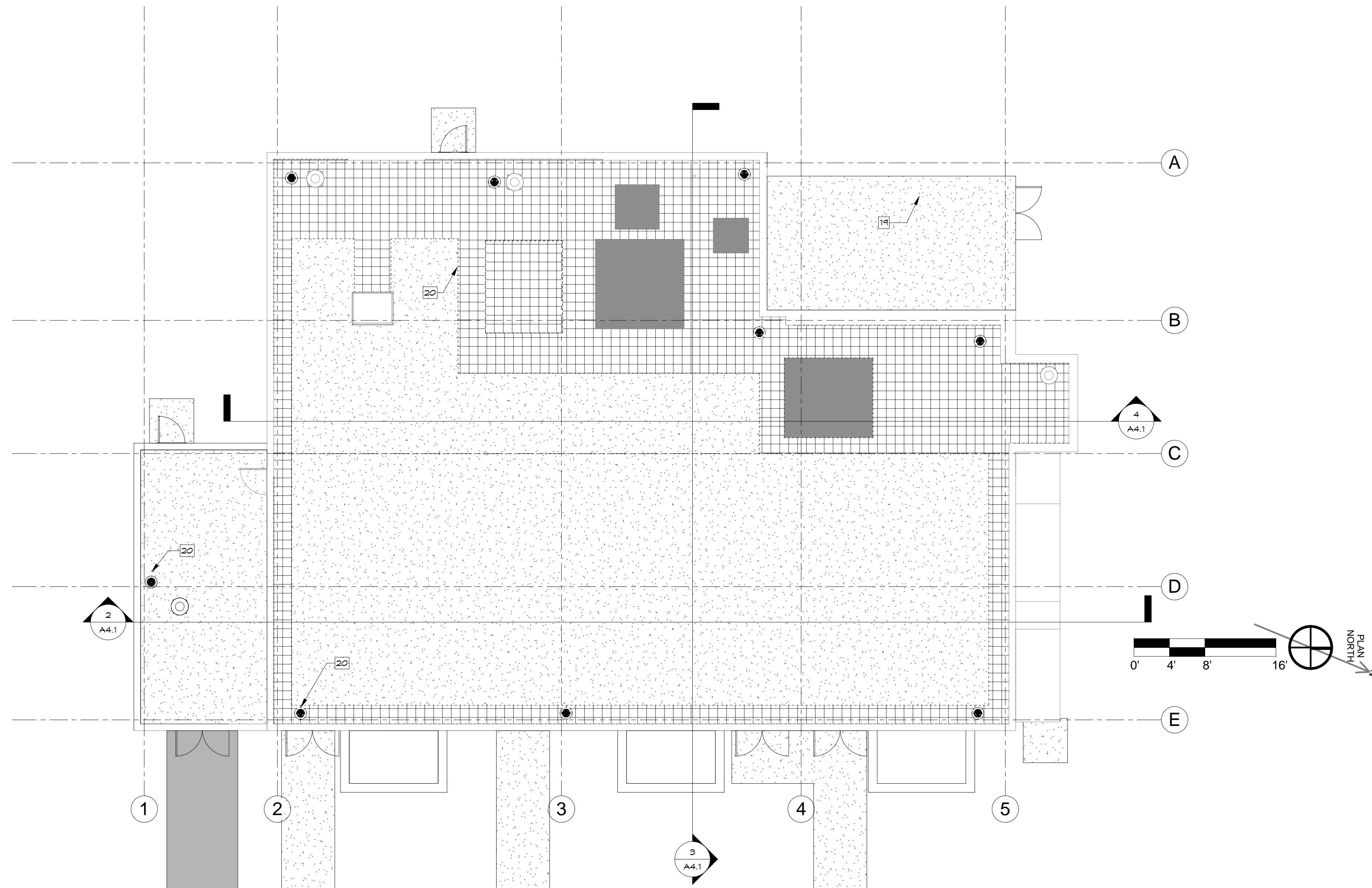
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**COUNTING HOUSE REN.
ROOF DEMOLITION PLAN**

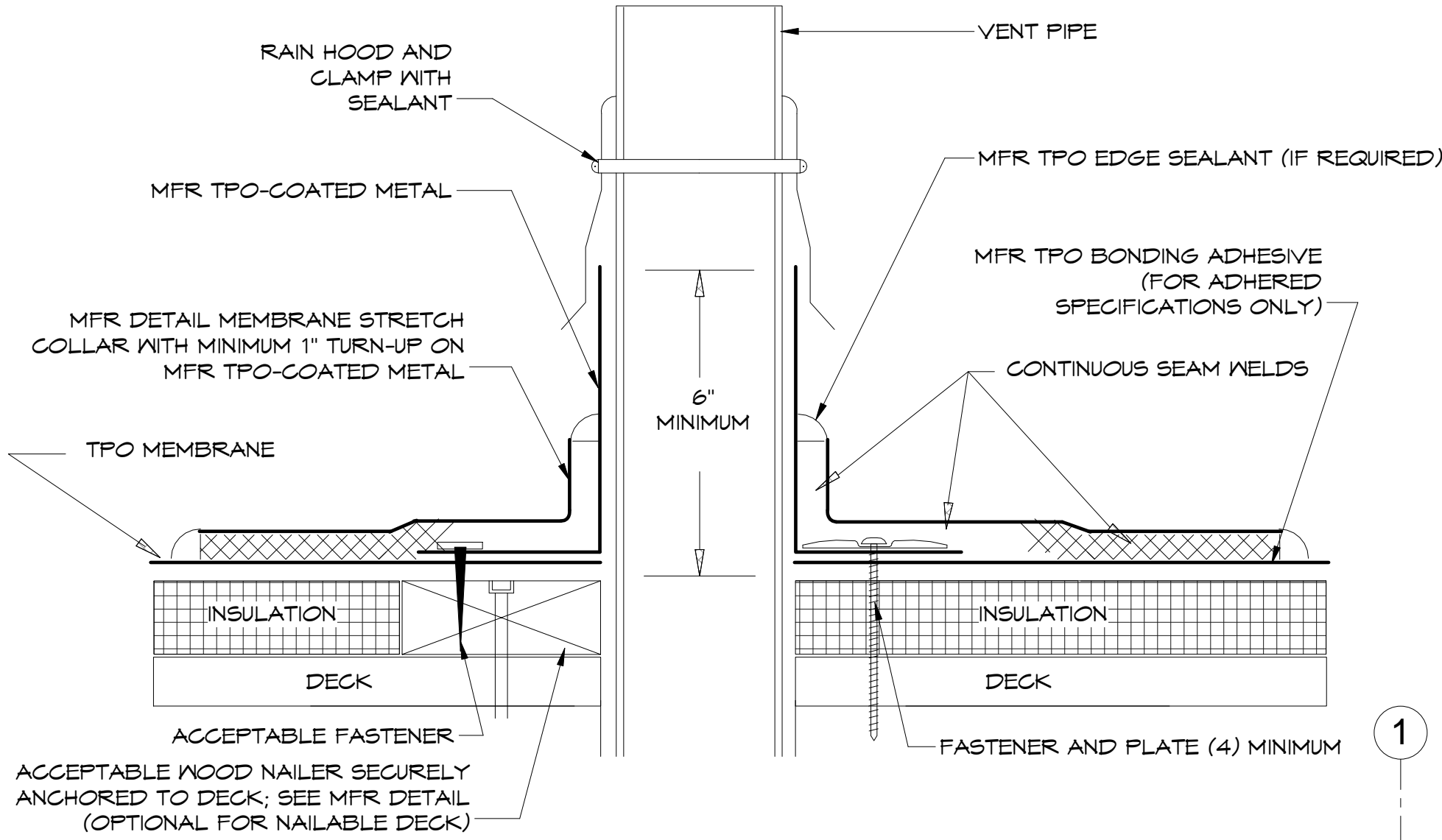
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1 ROOF DEMOLITION PLAN
A3.1 1/8" = 1'-0"

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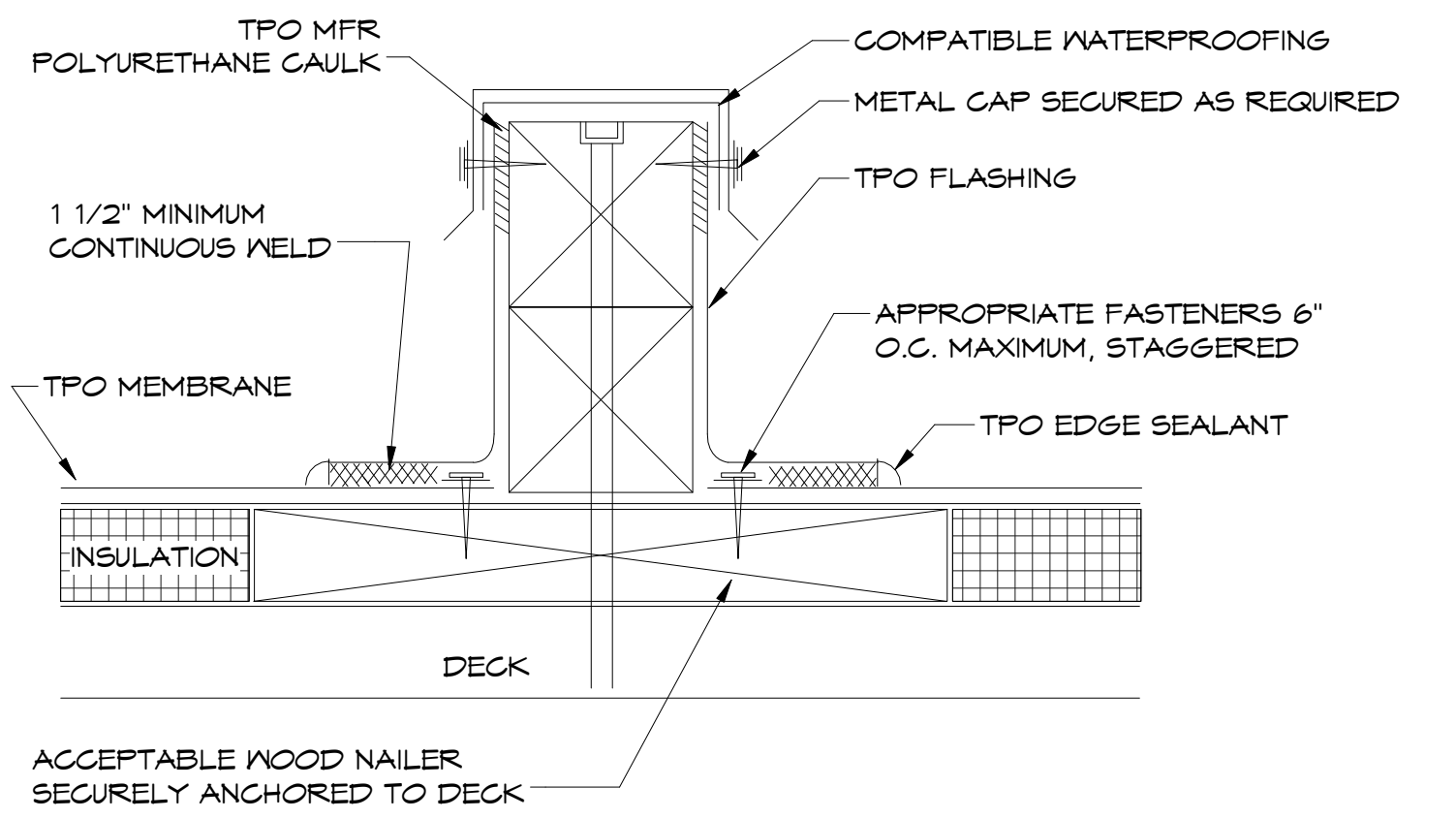
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KEY NOTES	
KEY	NOTE
19	EXISTING ROOFING TO REMAIN
20	EXISTING ROOFING, BALLAST, LIGHTNING PROTECTION, AND ROOF COPING TO BE REPLACED
21	ROOF CRICKET FOR POSITIVE DRAINAGE, TYP
22	EXISTING ROOF HATCH
24	PROVIDE 3/4" PLYWOOD COVER AT EXISTING MECH CURB OVER 2XFRAMING AND COVER WITH NEW INSULATION AND ROOFING
25	EXISTING ELEVATOR OVER RUN, PROVIDE NEW ROOFING
26	EXISTING ROOF EQUIPMENT PENETRATION. PROVIDE ROOFING TIE-IN AND FLASHING
27	NEW DOWNSPOUT BOOT FOR OVERFLOW
63	NEW ROOF OVER INSULATION, ROOF DECK, AND JOISTS PER STR, SEE SPECIFICATIONS
70	NEW AIR HOOD PER MECH

NOTES: VENT PIPE (WARM)
 1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
 2. MFR TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
 3. IF PENETRATION TEMPERATURE IS GREATER THAN 150°F, CONTACT THE MFR TECHNICAL SERVICES DEPARTMENT.
 4. LEFT SIDE SHOWS NAILER OPTION; RIGHT SIDE SHOWS ATTACHMENT TO DECK. EITHER OPTION REQUIRES A MINIMUM OF 4 FASTENERS.

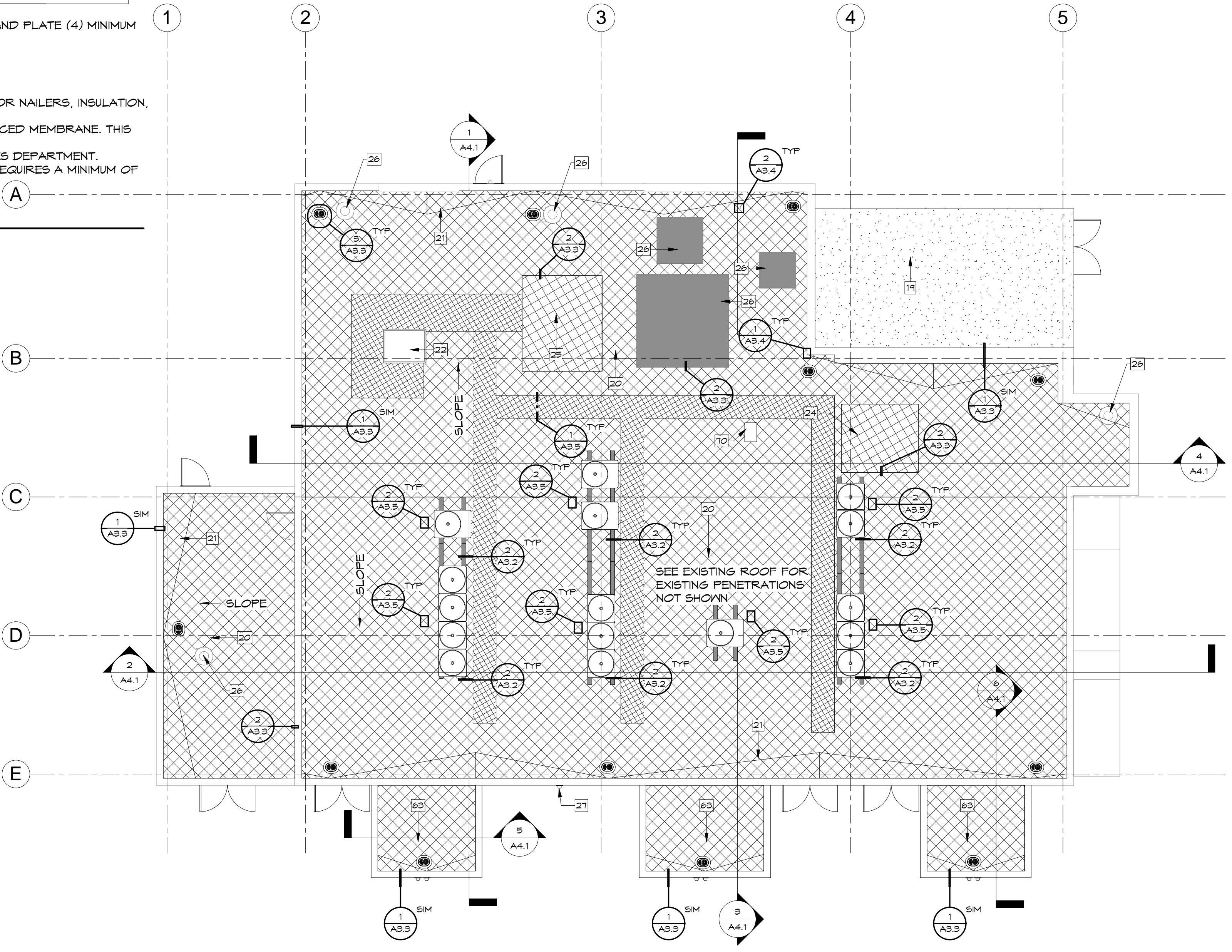
3 TPO - VENT PIPE (WARM)
 6" = 1'-0"



NOTES: SUPPORT - HEAVY
 1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
 2. MFR TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY-CUT MEMBRANE.
 3. SPECIFIER/APPLICATOR MUST DETERMINE APPROPRIATE EQUIPMENT SUPPORT TO BE USED.

2 TPO - EQ SUPPORT
 12" = 1'-0"

1 REMODEL ROOF PLAN
 1/8" = 1'-0"



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COUNTING HOUSE REN. ROOF PLAN

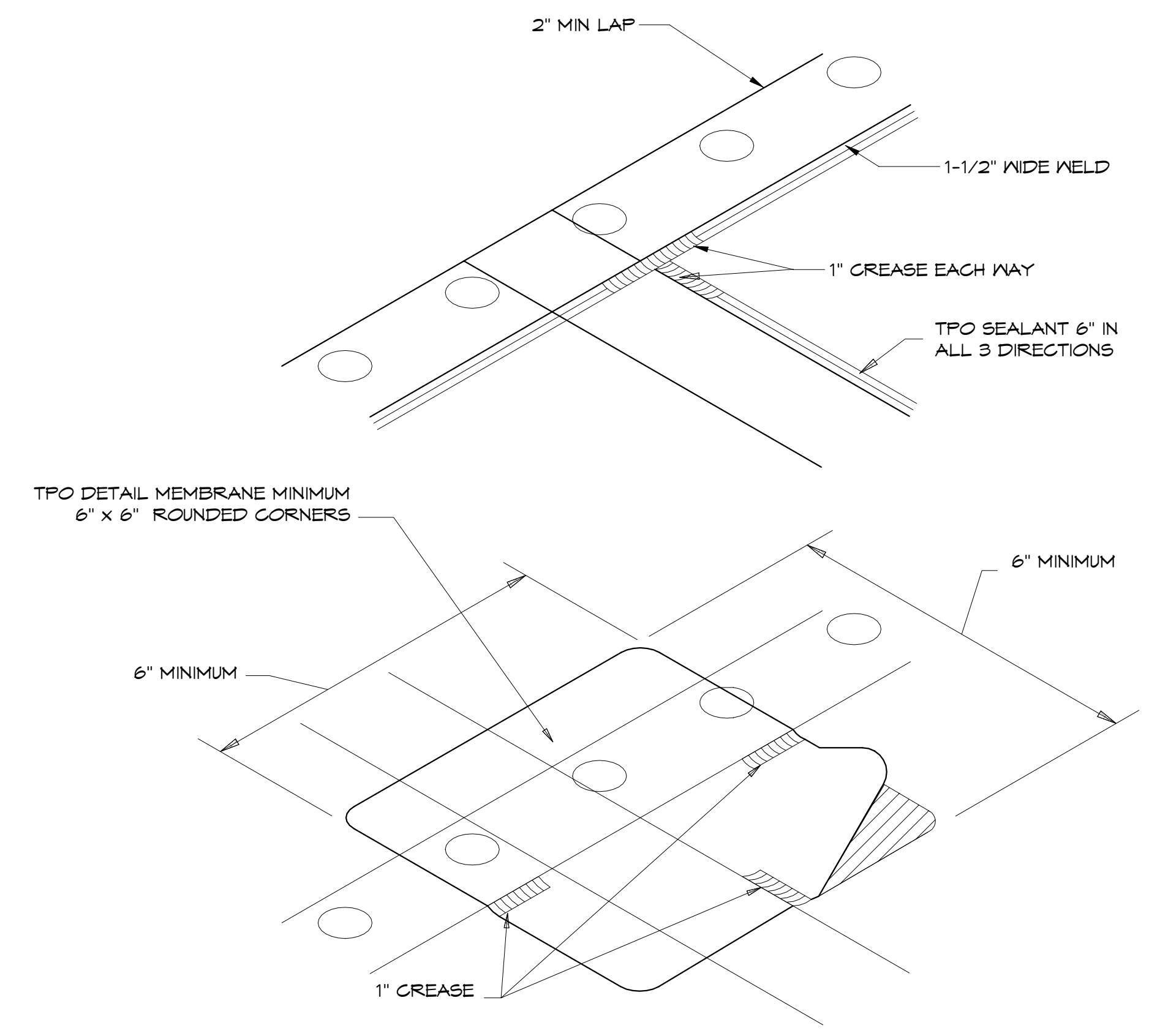
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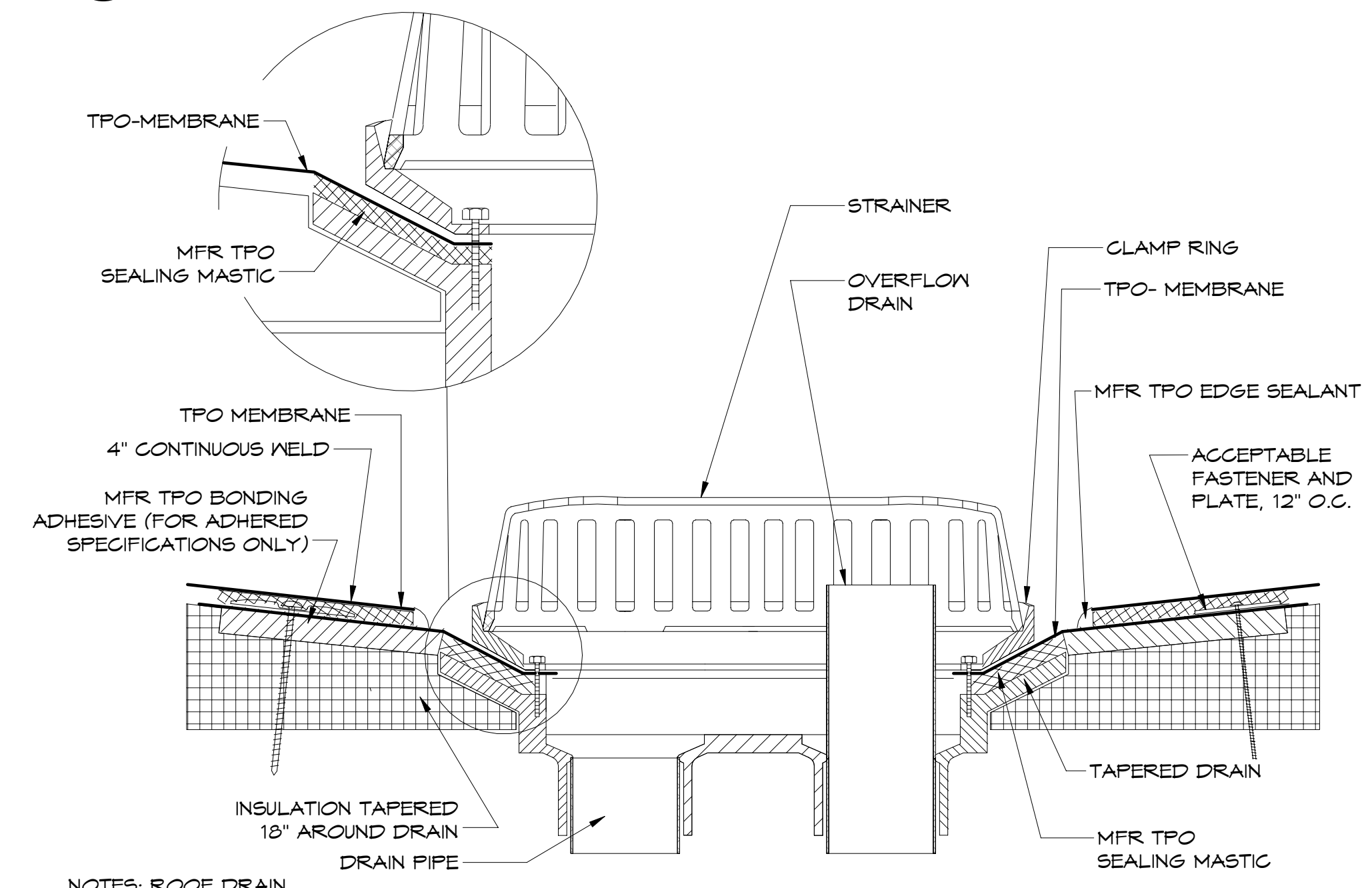
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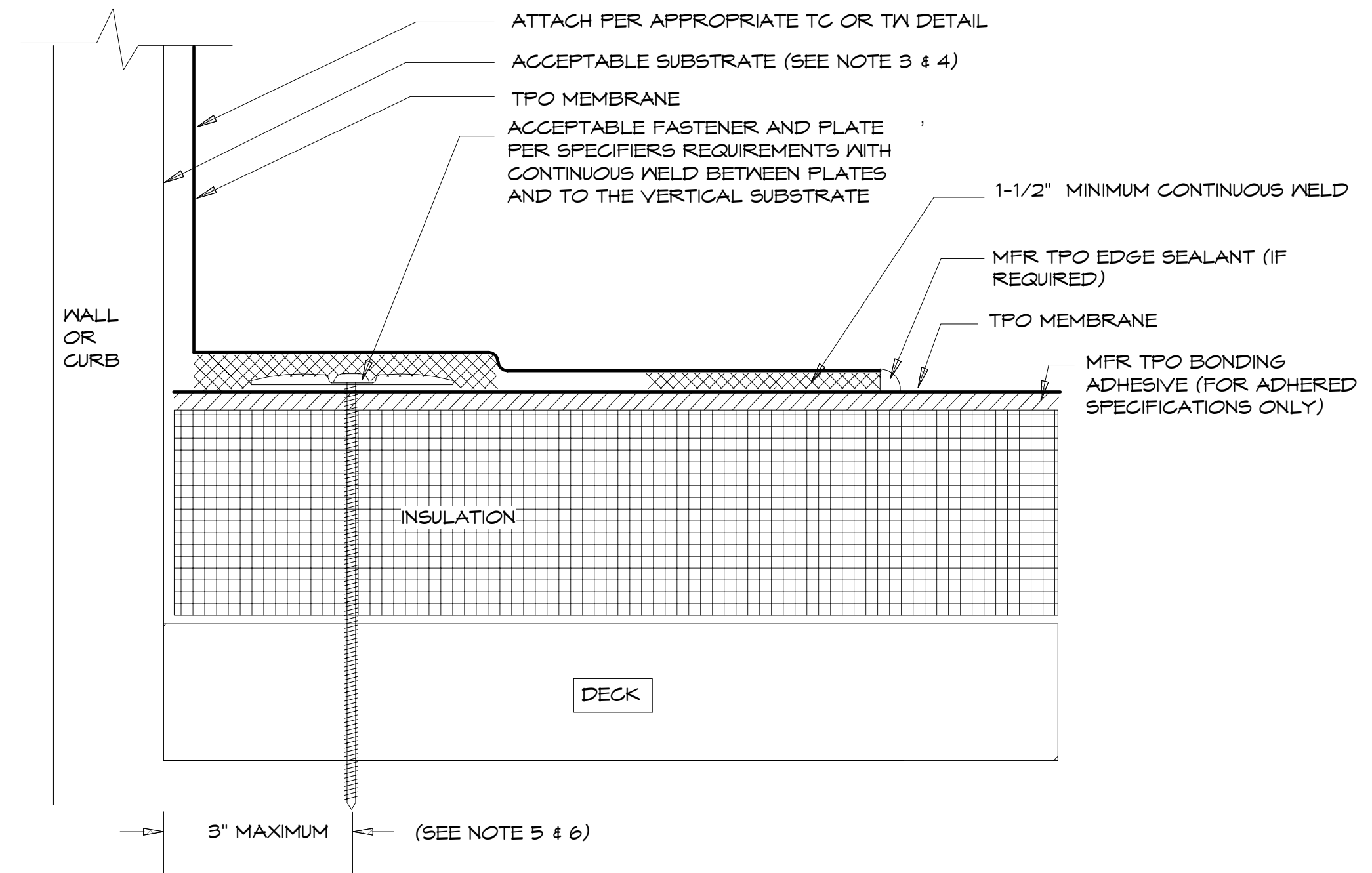
NOTE: TPO SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE, THIS INCLUDES FACTORY-CUT MEMBRANES.

4 TPO - FIELD SEAM INTERSECTION
6" = 1'-0"



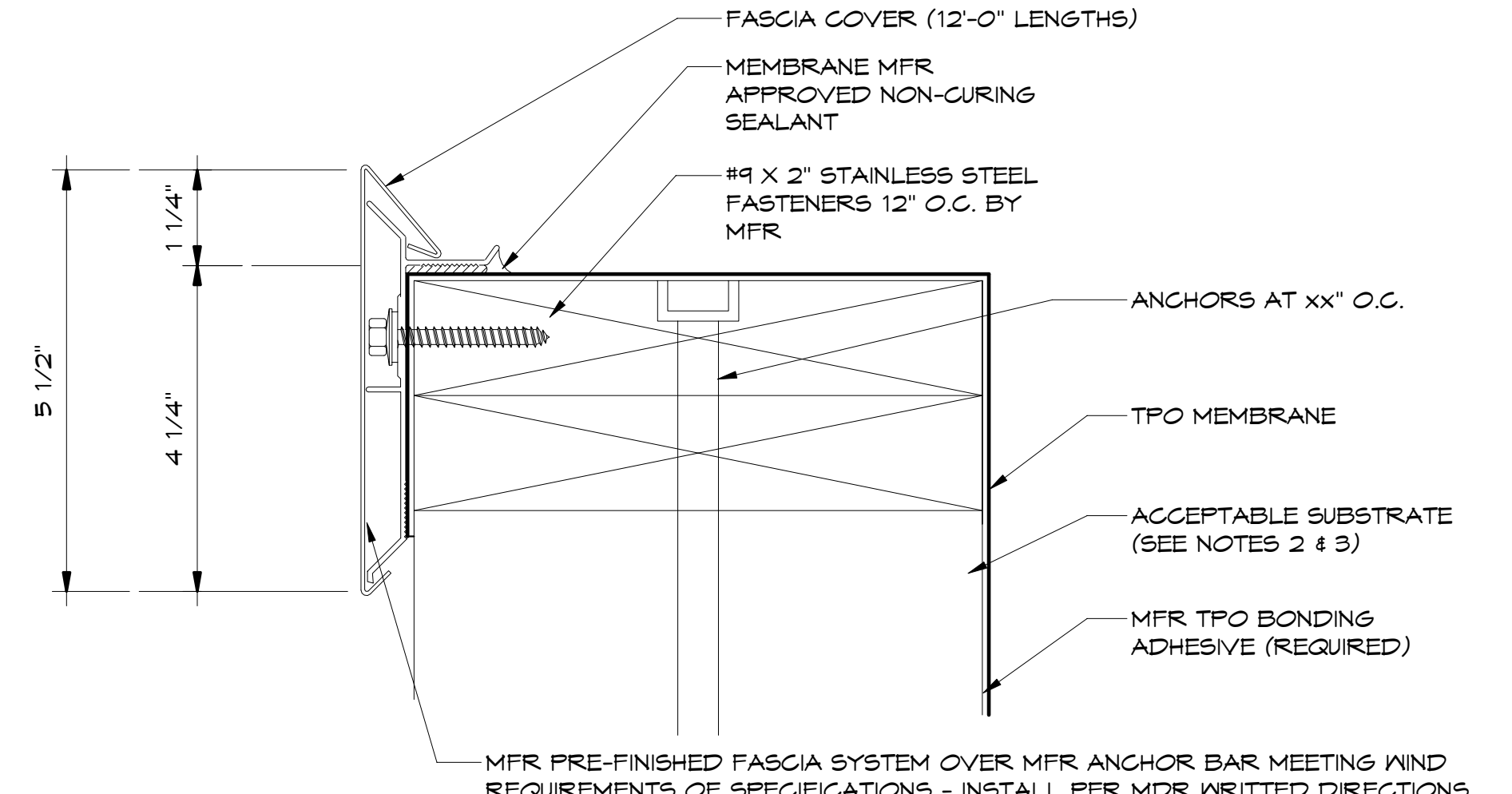
NOTES: ROOF DRAIN
 1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
 2. MFR TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.
 3. FIELD MEMBRANE SEAMS MUST NOT RUN THROUGH DRAIN BOWL.
 4. ALL MEMBRANE CUTS MUST BE ROUNDED TO PREVENT TEARING.
 5. REPLACE ANY BROKEN COMPONENTS (DRAINS, RINGS, BOLTS, ETC.)
 6. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.
 7. INSULATION MUST BE COMPATIBLE WITH MFR TPO BONDING ADHESIVE.

3 TPO - ROOF DRAIN & OVERFLOW
6" = 1'-0"



NOTES: BASE TIE-IN (FASTENER AND PLATE)
 1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENT FOR NAILERS, INSULATION, ETC.
 2. MFR TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS AND CUT EDGES.
 3. IN NEW CONSTRUCTION, ACCEPTABLE SUBSTRATES INCLUDE EXTERIOR GRADE PLYWOOD, POURED OR PRECAST CONCRETE, CEMENT BLOCK OR MASONRY WALLS. CONTACT MFR TECHNICAL SERVICES FOR OTHER SUBSTRATES.
 4. ON REROOFING PROJECTS, AN ACCEPTABLE ASPHALT BARRIER SHOULD BE INSTALLED OVER THE EXISTING FLASHING TO FULLY DIVORCE THE JM TPO REINFORCED FLASHING MEMBRANE FROM ANY INCOMPATIBLE MATERIALS.
 5. APPROVED FASTENER MUST BE WITHIN 3" OF VERTICAL SUBSTRATE. MEMBRANE AREAS BETWEEN AND BEHIND THE PLATE MUST BE WELDED SOLID ALL THE WAY TO THE VERTICAL SUBSTRATE.
 6. IF THE BACK EDGE OF THE INSEAM PLATE IS GREATER THAN 2" FROM THE VERTICAL SUBSTRATE, THE WALL FLASHING MUST BE ADHERED UTILIZING MFR TPO BONDING ADHESIVE.
 7. REFER TO ADDITIONAL MFR DETAIL WHERE FASTENER CAN NOT BE INSTALLED WITHIN 3" OF VERTICAL SUBSTRATE.
 8. INSULATION MUST BE COMPATIBLE WITH MFR TPO BONDING ADHESIVE.

2 TPO - BASE TIE-IN (FASTENER AND PLATE)
6" = 1'-0"



NOTES: PRE-MANUFACTURED PARAPET EDGE
 1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
 2. IN NEW CONSTRUCTION, ACCEPTABLE SUBSTRATES INCLUDE EXTERIOR GRADE PLYWOOD, POURED OR PRECAST CONCRETE, CEMENT BLOCK OR MASONRY WALLS. CONTACT MFR TECHNICAL SERVICES FOR OTHER SUBSTRATES.
 3. ON REROOFING PROJECTS, A MFR APPROVED ASPHALT BARRIER SHOULD BE INSTALLED OVER THE EXISTING FLASHINGS TO FULLY DIVORCE THE MFR TPO FLASHING MEMBRANE FROM ANY INCOMPATIBLE MATERIALS TO AVOID MEMBRANE DISCOLORATION.

1 TPO - MFR PARAPET EDGE
6" = 1'-0"

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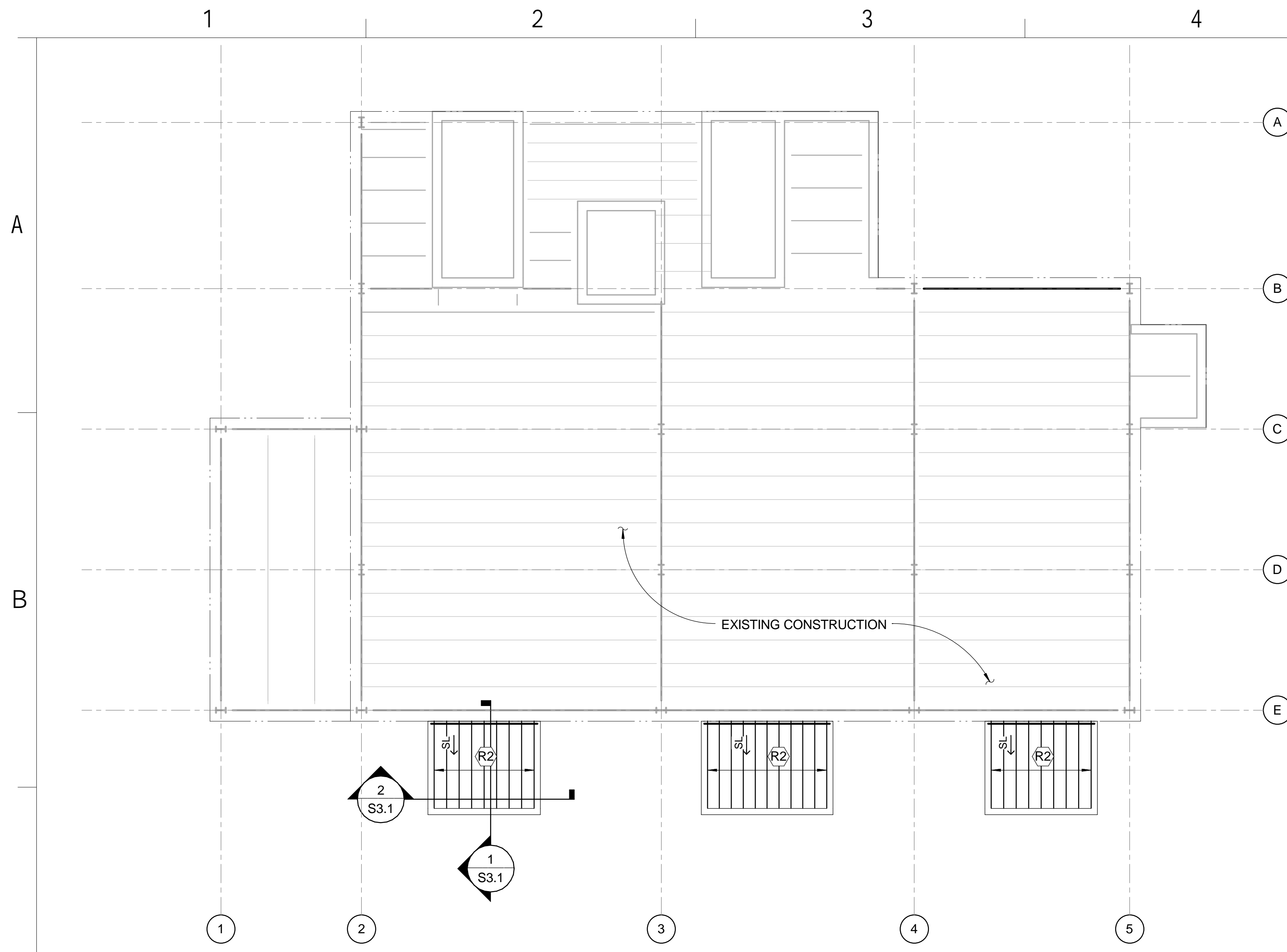
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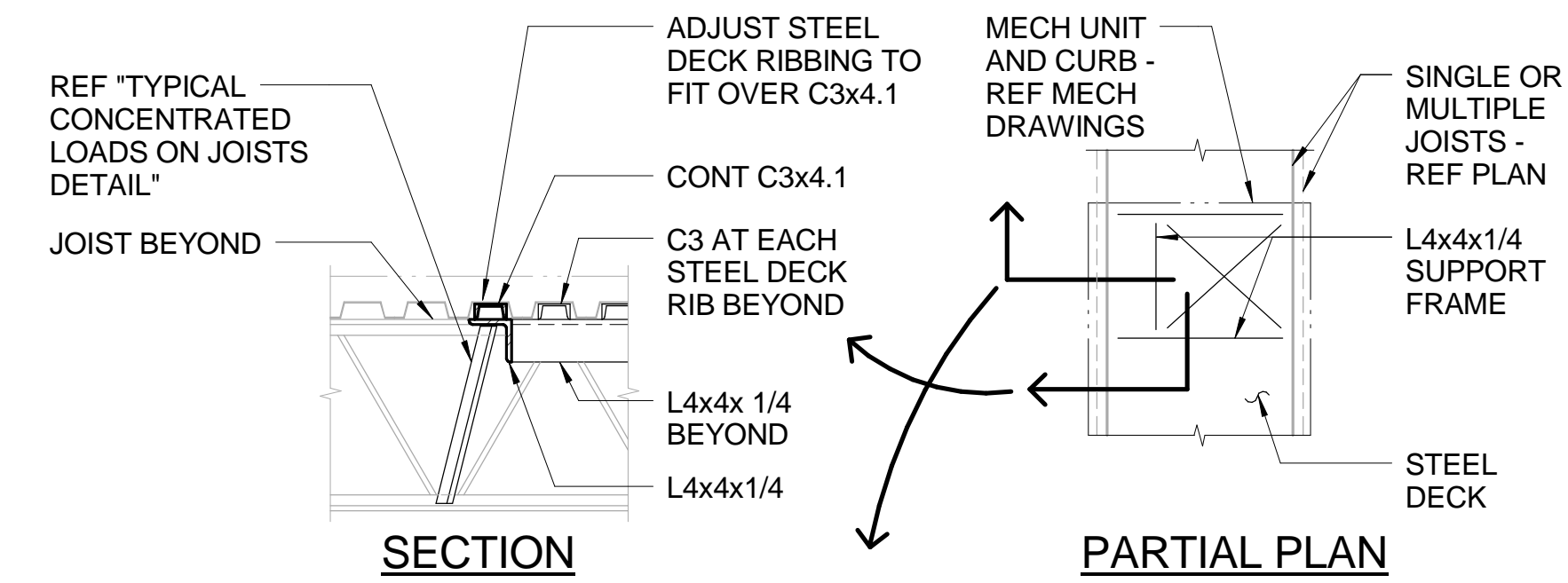
COUNTING HOUSE REN. ROOF DETAILS

SCALE	DRAWING NUMBER	SHEET	REV
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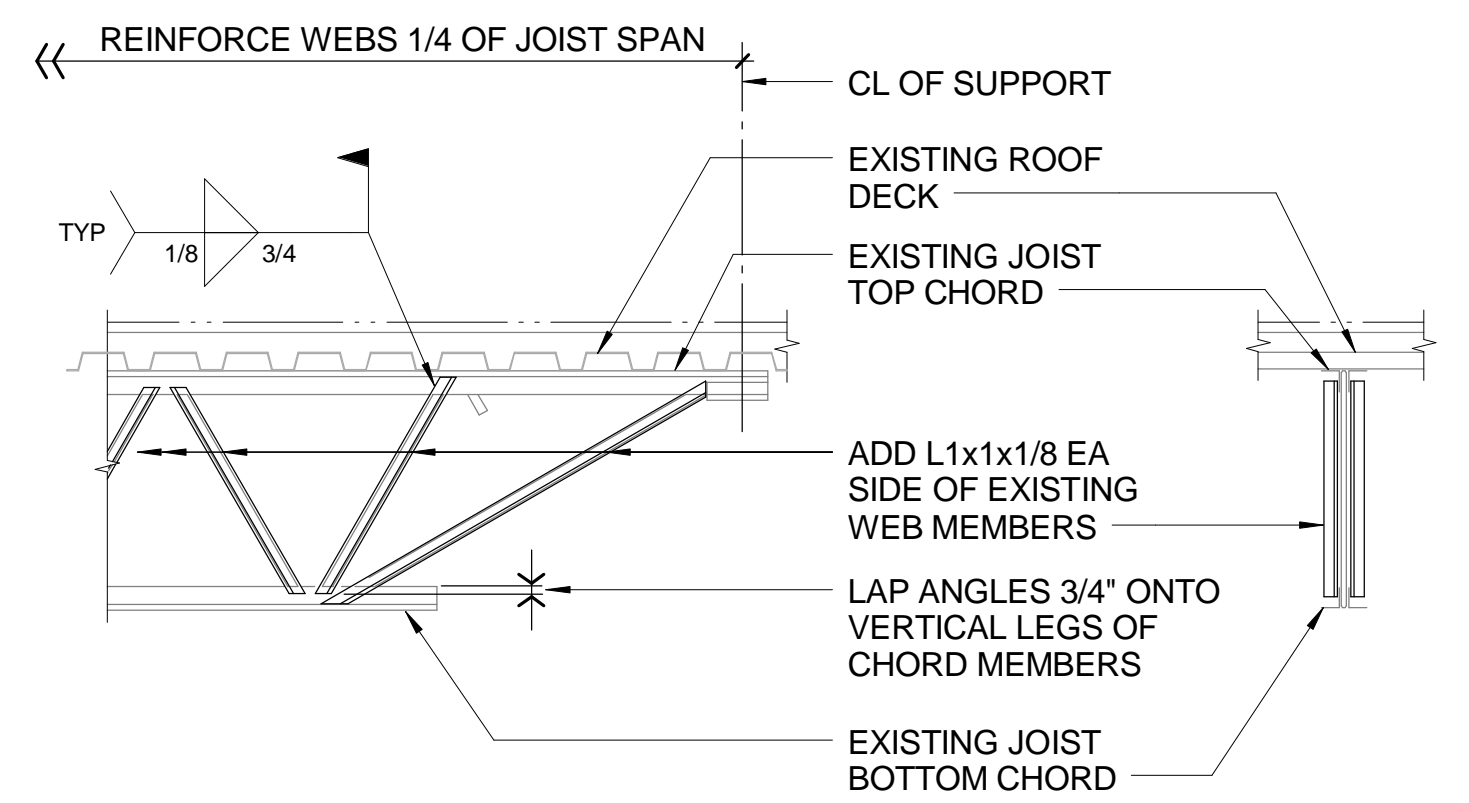
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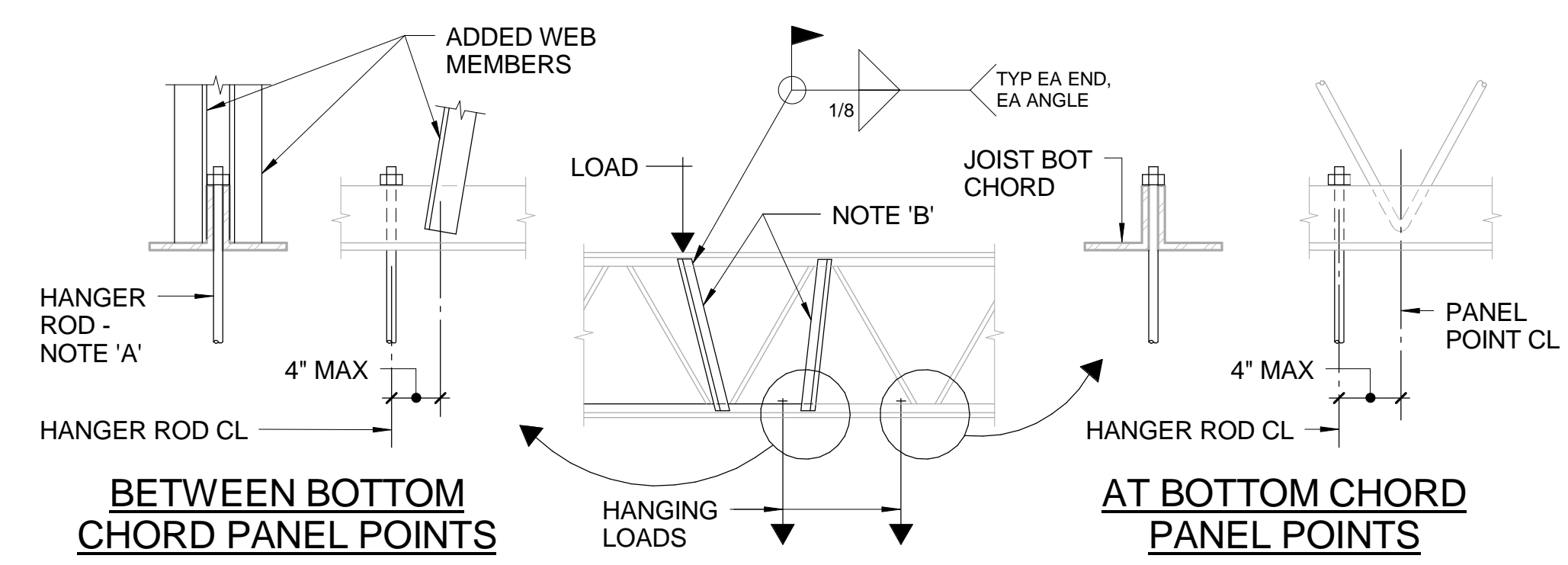
ROOF FRAMING PLAN NOTES	
R1	REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
R2	600S162-54 ROOF JOISTS SHALL BE EQUALLY SPACED NOT TO EXCEED 16" OC TO SUPPORT ROOF SHEATHING. JOISTS SHALL BE UNPUNCHED SECTIONS.
R3	VERIFY ALL DIMENSIONS AND WEIGHTS OF MECHANICAL EQUIPMENT AND OPENINGS AND PROVIDE THIS INFORMATION ON THE STRUCTURAL STEEL SHOP DRAWINGS.
R4	REFER TO "TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAILS" AND "TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS" ON THIS SHEET.
R5	REINFORCE JOIST WEBS AT THIS END OF SPAN. REFER TO "TYPICAL EXISTING JOIST STRENGTHENING DETAIL" ON THIS SHEET.



TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAILS
NTS



TYPICAL EXISTING JOIST STRENGTHENING DETAIL
NTS



TYPICAL DETAIL AT CONCENTRATED LOADS ON JOISTS
NTS
NOTE: THIS DETAIL IS FOR ALL LOADS WHICH EXCEED 50#.

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SME CHECKED		CHECKED		EHI
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**COUNTING HOUSE REN.
SECOND FLOOR/LOW ROOF FRAMING PLAN**

SCALE	DRAWING NUMBER	SHEET	REV
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PLUMBING FIXTURE SCHEDULE ①

NO.	FIXTURE	MANUFACTURER	MODEL NUMBER	MATERIAL	SIZE	MOUNTING HEIGHT	SUPPLY & DRAIN FITTING	SUPPLY STOPS	TRAP	PIPE ROUGH-IN SIZES				REMARKS
										W	V	HW	CW	
P-1	WATER CLOSET	KOHLER	K-4330	VITREOUS CHINA	ELONGATED	15" TO RIM	SLOAN REGAL III	-	-	4"	2"	-	1"	SEAT: K-4670-SC
P-1A	WATER CLOSET (HANDICAP)	KOHLER	K-4330	VITREOUS CHINA	ELONGATED	②	SLOAN REGAL III	-	-	4"	2"	-	1"	SEAT: K-4670-SC
P-2	LAVATORY (HANDICAP)	KOHLER	K-2146-4	VITREOUS CHINA	20-1/4"x17-1/2"	COUNTERTOP	FAUCET: 420-E2805CP DRAIN: 155A	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/2"	2"	1/2"	1/2"	③④
P-3	URINAL	KOHLER	K-4489-T	VITREOUS CHINA	-	②	SLOAN REGAL 186-05	-	-	2"	2"	-	3/4"	
P-3A	URINAL (HANDICAP)	KOHLER	K-4489-T	VITREOUS CHINA	-	②	SLOAN REGAL 186-05	-	-	2"	2"	-	3/4"	
P-4	SHOWER (HANDICAP)	AQUATIC-LASCO	1363 BF5	GELCOAT SURFACE	⑤	-	SYMMONS I-25-F5B-X	INTEGRAL W/ CONTROL	DEEP SEAL	2"	SEE PLANS	1/2"	1/2"	⑥⑦
P-5	ELEC. WATER COOLER (BI-LEVEL)	HALSEY TAYLOR	OVL-II SER-Q	STAINLESS STEEL	-	27" TO LOWER APRON	-	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/4"	2"	-	1/2"	

NOTES:

- ① ALL FIXTURES TO BE LOW CONSUMPTION AND VANDAL RESISTANT.
- ② WHERE CONNECTING TO EXIST. ROUGH-INS AND FIXTURE SUPPORT, MAINTAIN EXISTING MOUNTING HEIGHT.
- ③ FAUCET BY CHICAGO, DRAIN BY McGUIRE.
- ④ PROVIDE TRUEBRO UNDERSINK PIPE COVER KIT MOD. NO. 102E-Z FOR ALL EXPOSED PIPING BELOW COUNTER.
- ⑤ INTERIOR DEMENSIONS 36" x 36" x 74-1/4".
- ⑥ INSTALL CENTER LINE OF CONTROL @ 48", TOP OF SLIDE BAR @ 72".
- ⑦ COMPLETE W/ HANDRAILS, FOLD UP SEAT, AND DRAIN.

LEGEND

- EXIST. EXISTING
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FL FIXTURE MARK
- RD ROOF DRAIN
- V VENT
- WCO WALL CLEANOUT
- EXISTING COLD WATER PIPING (CW)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- EXISTING HOT WATER PIPING
- D — DRAIN PIPING (D)
- RL — EXISTING RAIN LEADER (RL)
- J — EXISTING SANITARY WASTE PIPING
- J — SANITARY WASTE PIPING (W)
- V --- VENT PIPING (V)
- E — PIPE CAP
- — PIPE UP
- — PIPE DOWN
- ▶— DIRECTION OF FLOW IN PIPE
- — BALL VALVE
- ◀ —▶ — EXISTING GATE VALVE
- ▭ NEW WORK
- ▭ EXISTING TO BE REMOVED
- ▭ EXISTING TO REMAIN
- ① NEW WORK
- ① DEMOLITION NOTE
- REMOVE EXISTING TO THIS POINT
- POINT OF CONNECTION FOR NEW WORK

PLUMBING DRAIN AND EQUIPMENT SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	REMARKS
FLOOR DRAIN	J.R. SMITH	2005Y (A)-U-NB-PO75	W/ DEEP SEAL TRAP, TRAP GUARD, AND 3/4" TRAP PRIMER CONNECTION
ROOF DRAIN	J.R. SMITH	1010-R-C-U-AD	W/ ALUMINUM DOME
TRAP GUARD	PROSET SYSTEMS	T25630-F-P	-
BACKFLOW PREVENTER (BFP-I)	WILKINS	975XL	SERVES COLD WATER MAKE UP TO MECHANICAL EQUIPMENT

GENERAL NOTES

1. PIPING SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
2. PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR LATERAL PIPE MOVEMENT.
3. EXERCISE DUE CAUTION INSTALLING RUNOUTS AND BRANCH PIPING FROM MAINS TO ALLOW FOR EXPANSION MOVEMENT.
4. EXACT LOCATION OF NEW FLOOR DRAINS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.
5. ARRANGE ABOVE CEILING PIPING TO CLEAR DUCTWORK, CONDUITS, LIGHT FIXTURES, ETC., AND ALLOW FOR PIPE HANGERS AND ACCESS TO VALVES.
6. FLOOR DRAINS SHALL BE SET FLUSH, LEVEL WITH FINISHED FLOOR.



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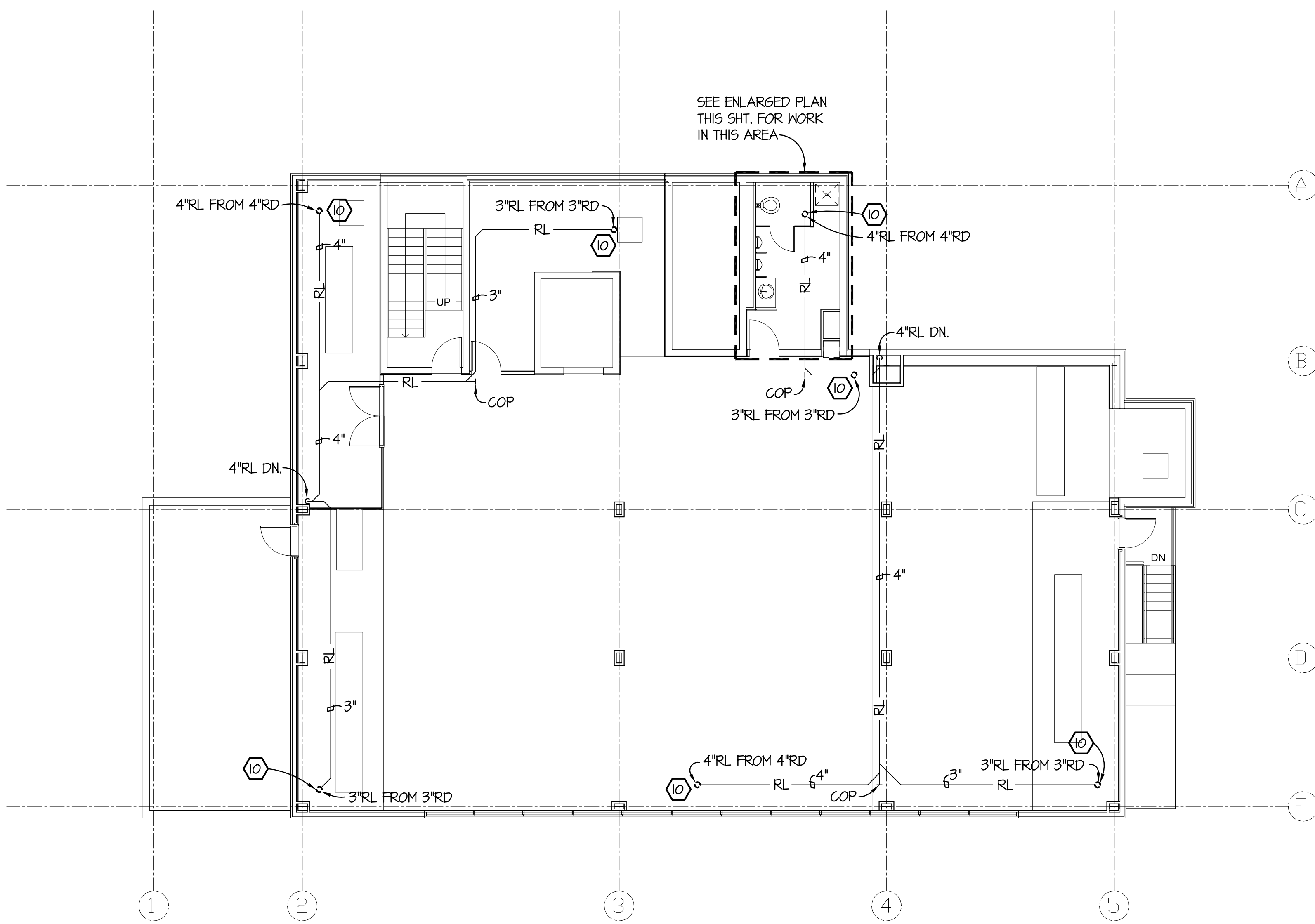


COUNTING HOUSE REN.
PLUMBING SCHEDULES, NOTES AND LEGEND

SCALE	DRAWING NUMBER	SHEET	REV
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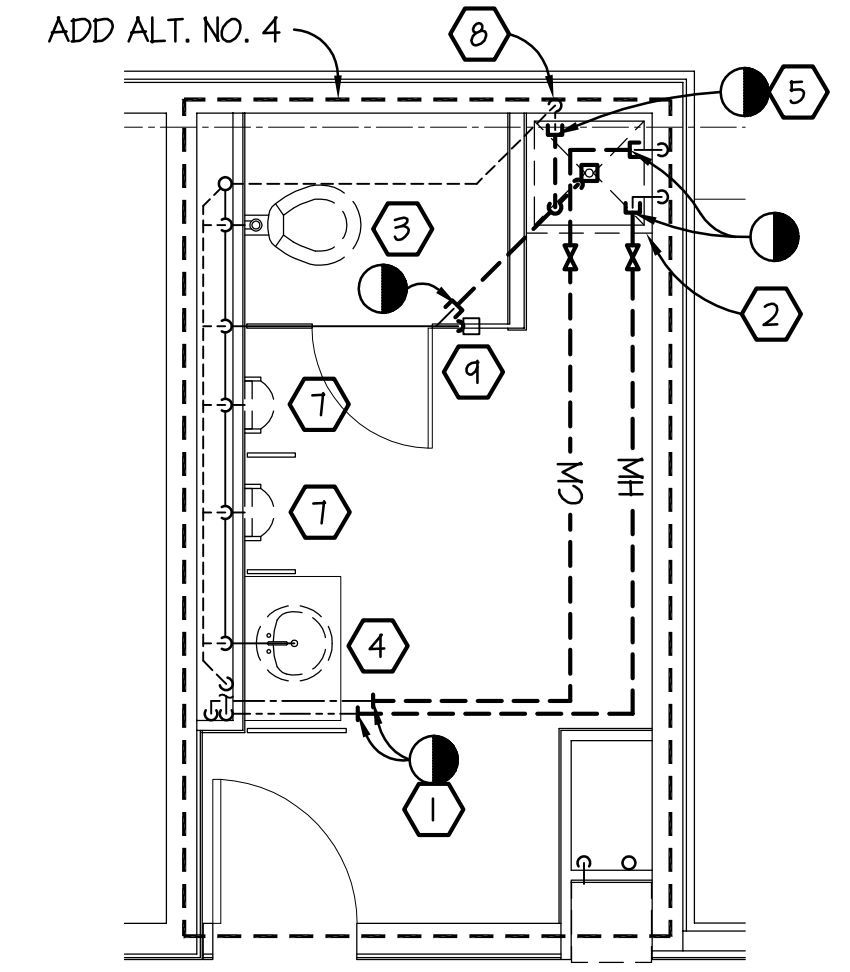


SECOND FLOOR PLAN - PLUMBING - DEMOLITION - BASE BID

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

(FOR DEMOLITION NOTES SEE SHEET P1.1)

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.



ENLARGED PLAN - ADD ALT. NO. 4

SCALE: 1/4" = 1'-0"

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SECOND FLOOR PLAN - PLUMBING - DEMOLITION - BASE BID + ADD ALT. NO. 4

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		P1.2	

1 2 3 4 5 6

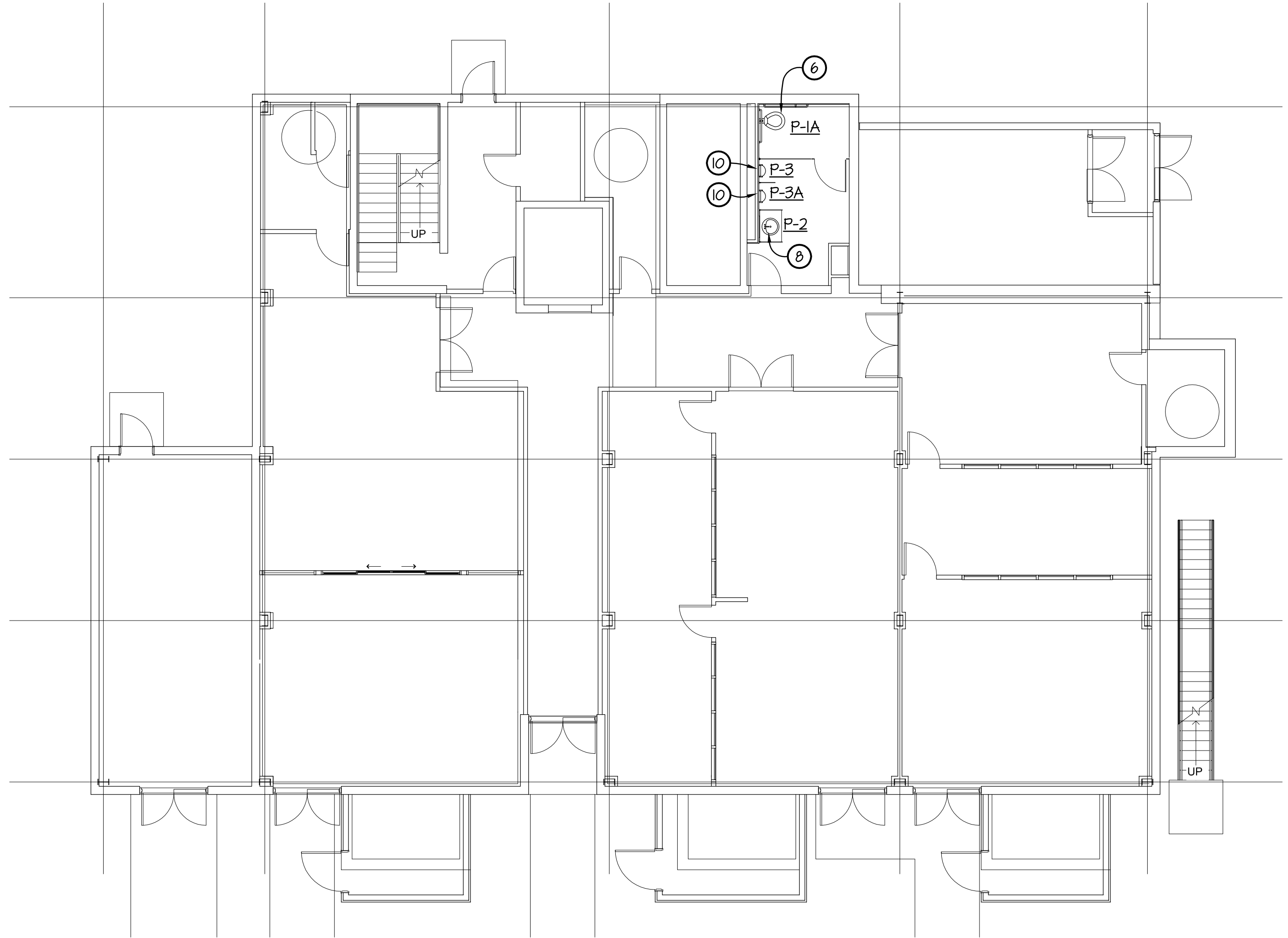
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SECOND FLOOR PLAN - PLUMBING - DEMOLITION - ADD ALT. NO.4

SCALE: 1/8" = 1'-0"
FOR NEW WORK NOTES SEE SHEET P2.2

1 2 3 4 5 6



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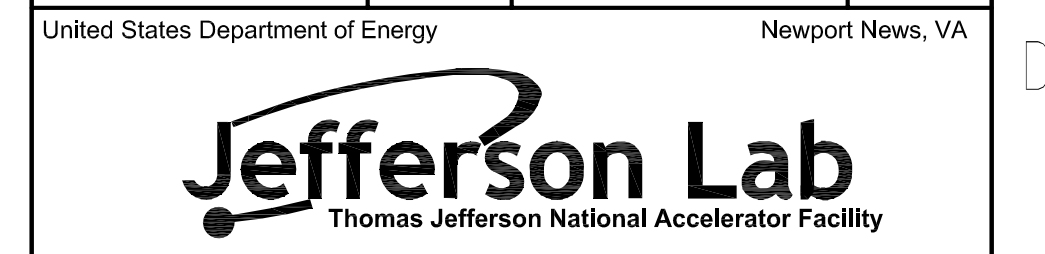
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TELEPHONE: (757) 396-6415 FAX: (757) 396-6413
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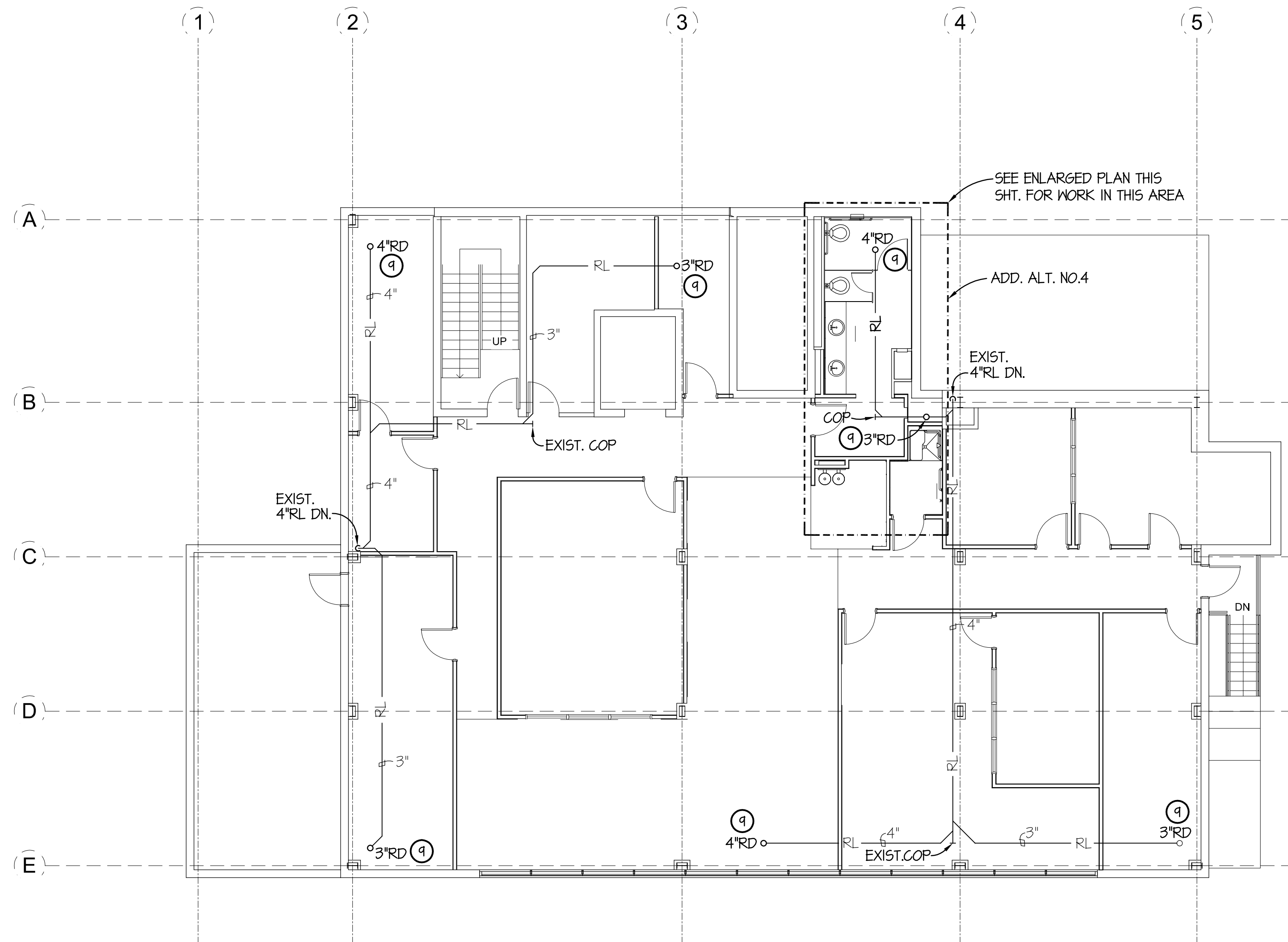
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SME CHECKED		CHECKED	MWT	
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COUNTING HOUSE REN.
FIRST FLOOR PLAN - PLUMBING - NEW WORK - ADDITIVE ALTERNATE NO.4

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		P2.1	

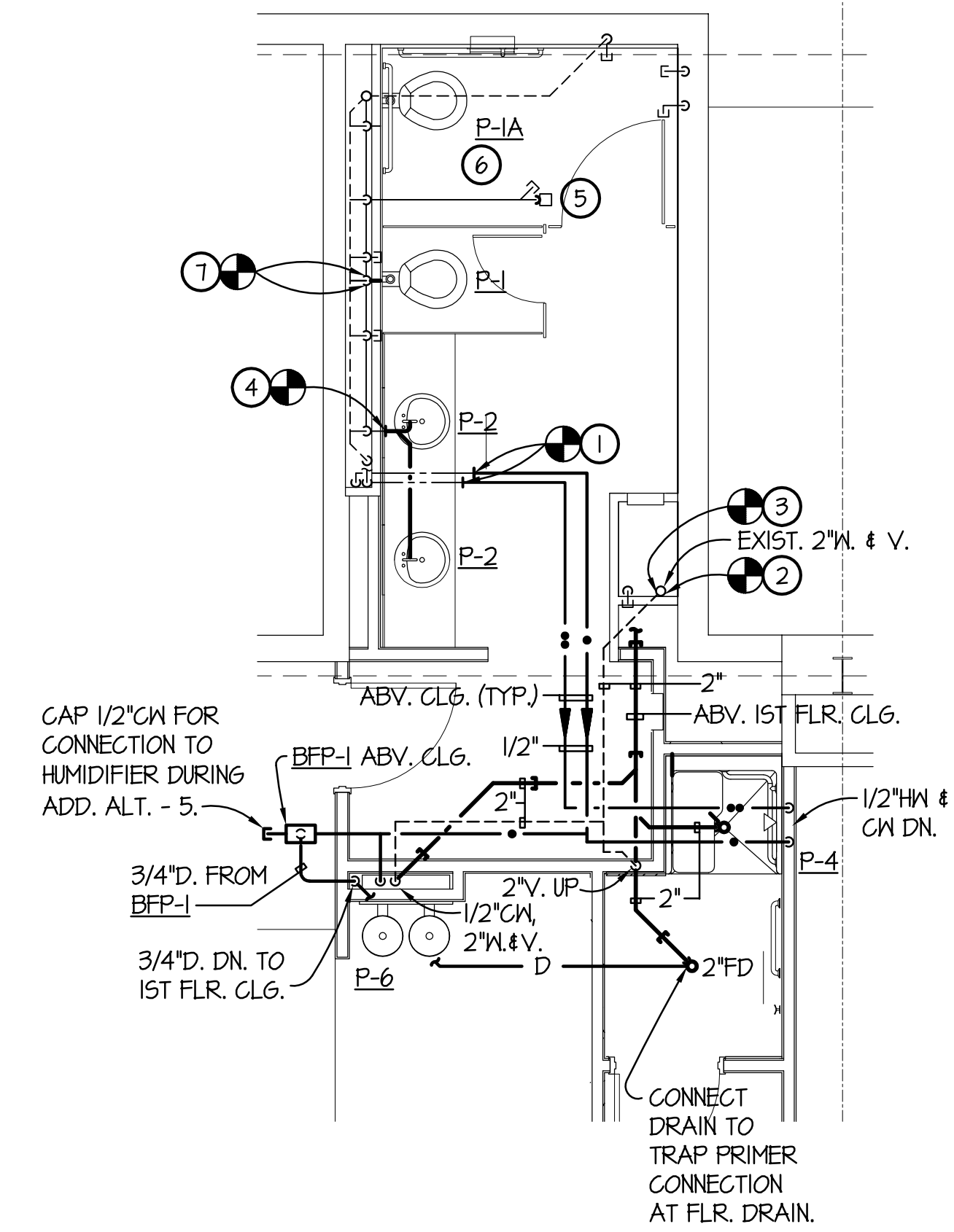


SECOND FLOOR PLAN - PLUMBING - NEW WORK - BASE BID

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

NEW WORK NOTES

- ① CONNECT TO EXISTING 1/2" HOT AND COLD WATER PIPING ABOVE CEILING.
- ② CONNECT TO EXISTING 2" WASTE PIPING INSIDE WALL.
- ③ CONNECT TO EXISTING 2" VENT PIPING INSIDE WALL.
- ④ CONNECT TO EXISTING 1-1/2" WASTE PIPING AT WALL. CONNECT TO EXISTING 1/2" HOT AND COLD WATER ROUGH-INS. BRANCH 1/2" HOT AND COLD WATER TO EACH NEW P-2 LAVATORY
- ⑤ EXISTING 3" FLOOR DRAIN AND WASTE PIPING.
- ⑥ PROVIDE NEW WATER CLOSET. CONNECT TO EXISTING WASTE AND COLD WATER ROUGH-INS.
- ⑦ PROVIDE NEW WATER CLOSET, WASTE AND COLD WATER ROUGH-INS AND FIXTURE SUPPORT.
- ⑧ PROVIDE NEW LAVATORY. CONNECT TO EXISTING HOT AND COLD WATER AND WASTE ROUGH-INS.
- ⑨ PROVIDE NEW ROOF DRAIN AND CONNECT TO EXISTING RAIN LEADER PIPING.
- ⑩ PROVIDE NEW URINAL. CONNECT TO EXISTING WASTE AND COLD WATER ROUGH-INS.



ENLARGED PLAN - ADD. ALT. NO.4

SCALE: 1/4" = 1'-0"

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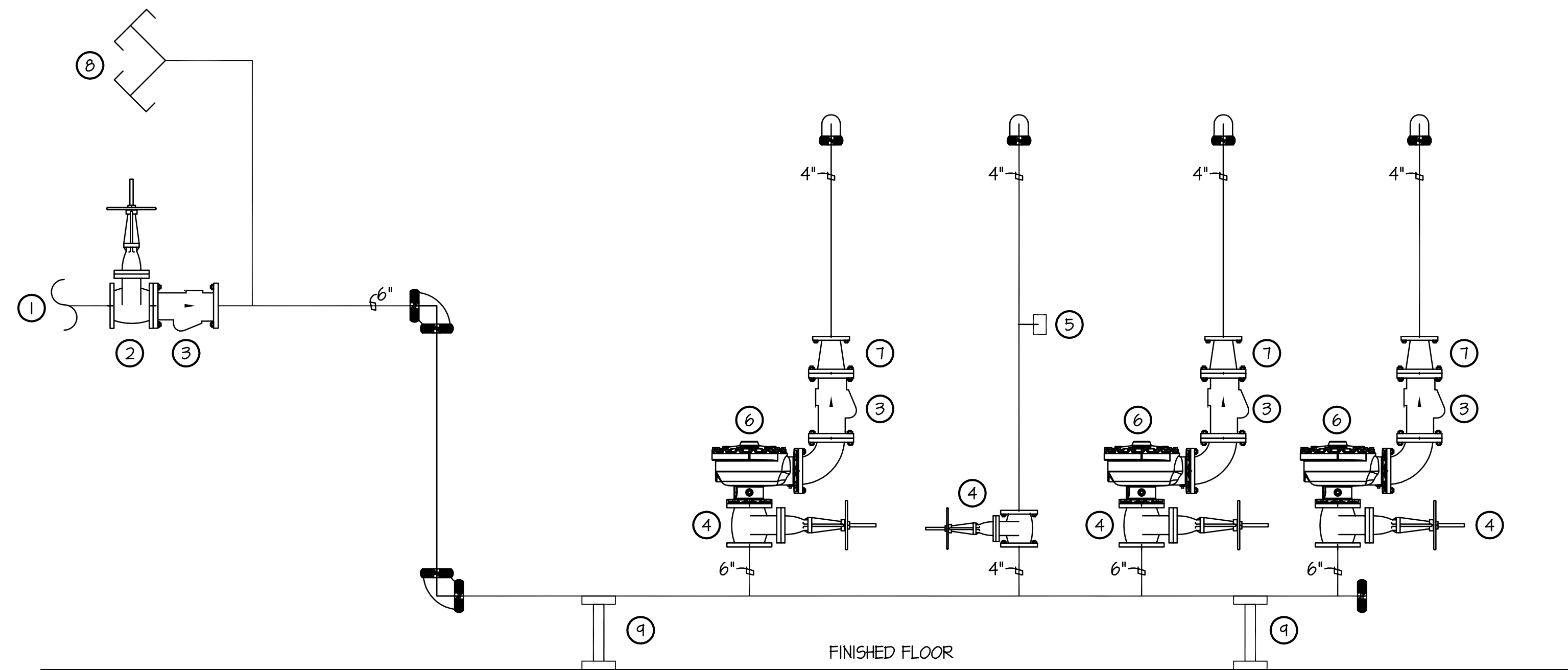
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COUNTING HOUSE REN.
SECOND FLOOR PLAN - PLUMBING - NEW WORK -
BASE BID + ADD ALT. NO.4

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		P2.2	



RISER NOTES AND LIST:

- ① 6" FIRE MAIN
- ② SUPERVISED OS&Y VALVE
- ③ CHECK VALVE
- ④ OS&Y VALVE W/ TAMPER SWITCH
- ⑤ FLOW SWITCH
- ⑥ DELUGE VALVE
- ⑦ 6x4 CONG. REDUCER
- ⑧ FIRE DEPARTMENT CONNECTION
- ⑨ PIPE STAND

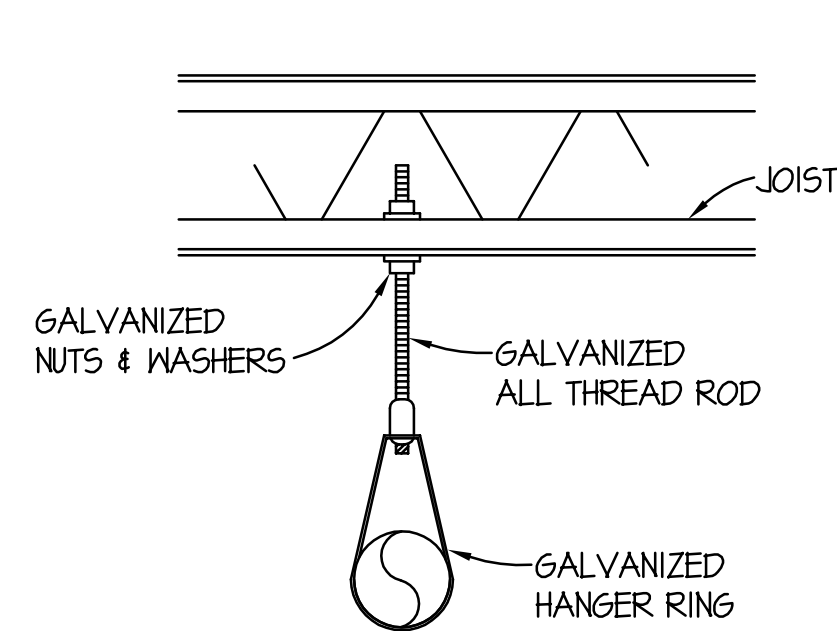
NOTE: FIRE RISER TO REMAIN. NO WORK REQUIRED.

EXISTING FIRE RISER DETAIL

NOT TO SCALE

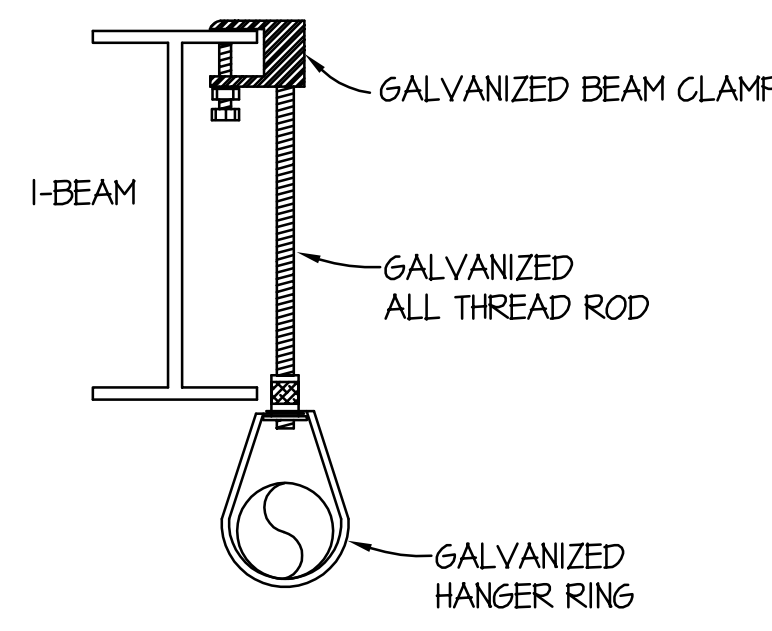
WATER FLOW TEST DATA

STATIC PRESSURE:	75 P.S.I.
RESIDUAL PRESSURE:	54 P.S.I.
GPM FLOWING:	1500 G.P.M.
DATE TAKEN:	8/1992



HANGER DETAIL

NOT TO SCALE



PIPE HANGER DETAIL @ I-BEAM

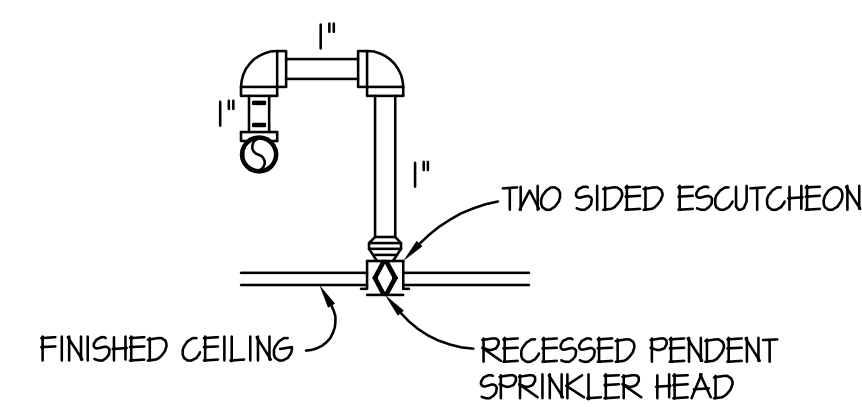
NOT TO SCALE

LEGEND

- ②'-0" CENTERLINE ELEVATION ABOVE FINISHED FLOOR
- ← PIPE DOWN
- ⋈ EXISTING OS&Y VALVE
- < EXISTING CHECK VALVE
- F - EXISTING SPRINKLER PIPING
- - - EXISTING PIPING TO BE REMOVED
- 1" NEW 1" SPRINKLER PIPE
- 1/4" NEW 1-1/4" SPRINKLER PIPE
- 1/2" NEW 1-1/2" SPRINKLER PIPE
- PENDENT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SPRINKLER HEAD TO BE REMOVED
- ⑤ NODE POINT
- REMOVE EXISTING TO THIS POINT
- ⊕ POINT OF CONNECTION FOR NEW WORK
- ⓧ DEMOLITION NOTE

ABBREVIATIONS

- EXIST. EXISTING
- F FIRE PROTECTION PIPING



TYPICAL SWING JOINT DETAIL

NOT TO SCALE

GENERAL NOTES

1. ALL MATERIALS AND DEVICES INSTALLED IN THIS FIRE SPRINKLER SYSTEM SHALL COMPLY WITH THE INSTALLATION STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION 2007 EDITION 13.
2. ALL SPRINKLER PIPE HANGERS SHALL BE LISTED AND APPROVED IN ACCORDANCE WITH NFPA 13, PIPE SUPPORT.
3. THE FIRE SPRINKLER SYSTEM SHALL BE SIZED HYDRAULICALLY PER NFPA 13 AND CALCULATED 20/934 SQ FT.
4. THE SPRINKLER DENSITY CLASSIFICATIONS SHALL BE APPLIED TO THE SPACE AS FOLLOW:
 - LIGHT HAZARD FOR OPEN OFFICE AREAS AND CONFERENCE ROOMS
 - ORDINARY HAZARD GROUP II FOR STORAGE AREAS AND WORKROOMS
 - ORDINARY HAZARD GROUP I FOR THE NEW MECHANICAL ROOM
5. A CURRENT WATER FLOW TEST IS REQUIRED.
6. UTILIZE UPRIGHT HEADS IN EXPOSED AREAS. UTILIZE PENDENT HEADS IN CENTER OF TILE UTILIZED IN AREAS WITH CEILINGS.
7. AN EXISTING 4" FLOOR CONTROL VALVE IS LOCATED IN STAIRWELL.

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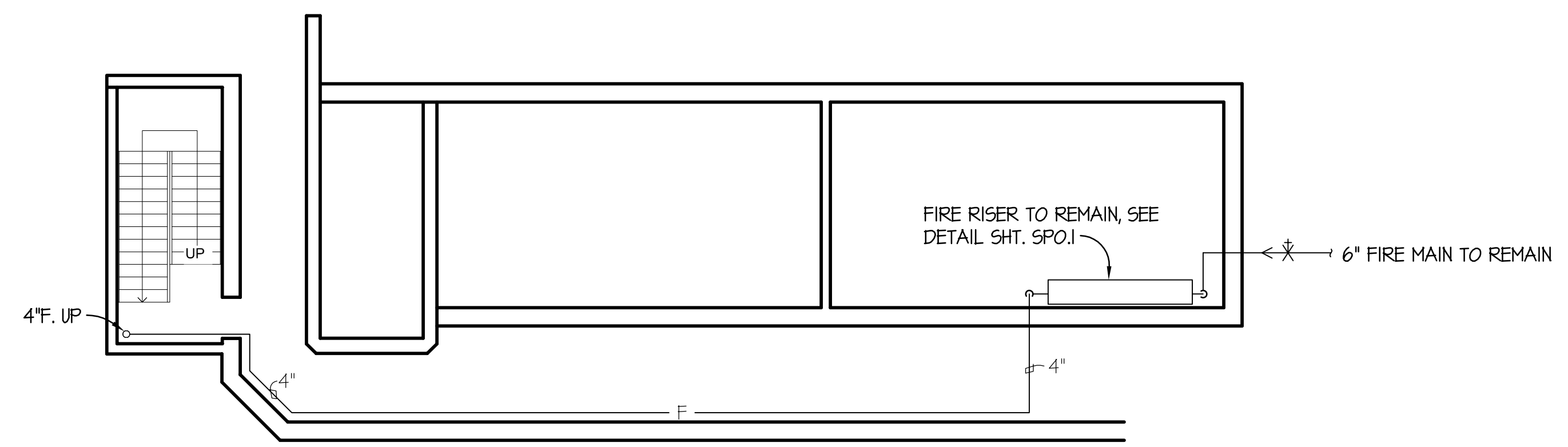


COUNTING HOUSE REN.
FIRE RISER, LEGEND, AND GENERAL NOTES

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		SP0.1	

1 2 3 4 5 6

A



DEMOLITION NOTES

(THIS SHEET ONLY)

- ① REMOVE SPRINKLER HEAD.
- ② REMOVE SPRINKLER PIPING TO LIMITS INDICATED.

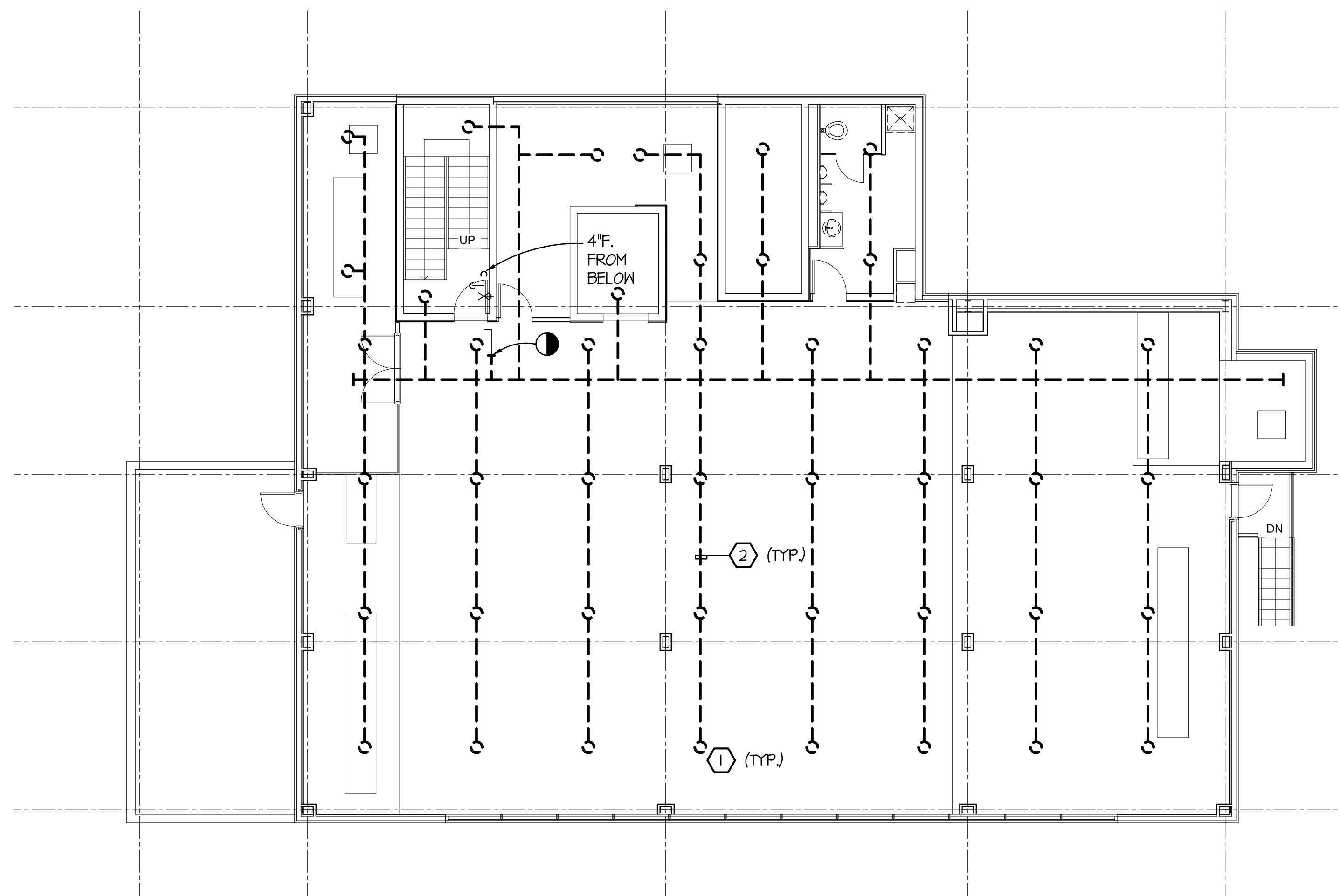
LOWER LEVEL PLAN - SPRINKLER - DEMOLITION - ADD ALTERNATE NO.5

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

B

C

D



SECOND FLOOR PLAN - SPRINKLER - DEMOLITION - ADD ALTERNATE NO.5

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

1 2 3 4 5 6



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Newport News, VA

Jefferson Lab
Thomas Jefferson National Accelerator Facility

COUNTING HOUSE REN.
FLOOR PLANS - SPRINKLER - DEMOLITION - ADDITIVE ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		SP1.1	

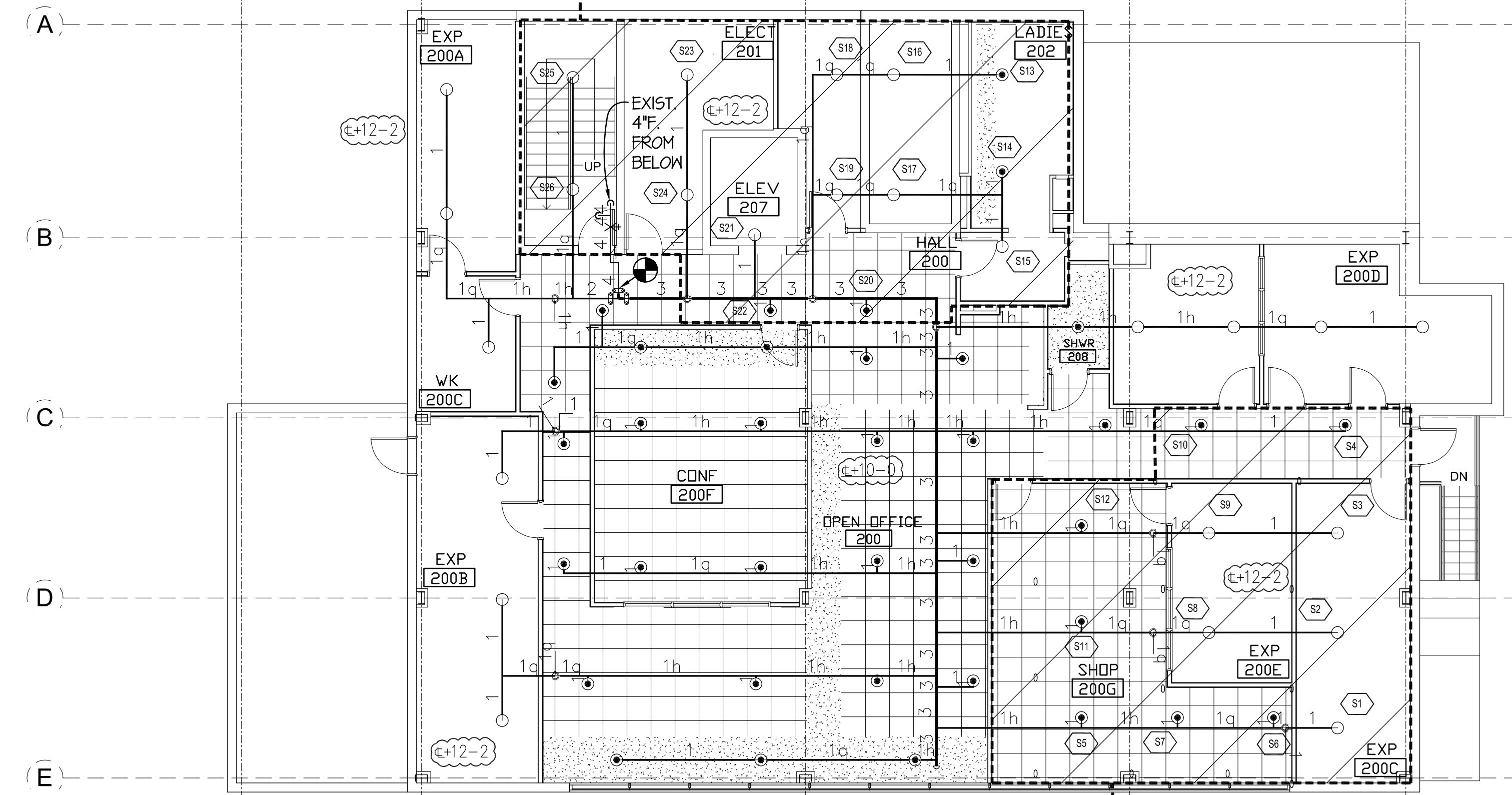


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HYDRAULICALLY CALCULATED AREA	
HAZARD: ORD 1, STAIRS	SAFETY: 11.9 PSI
SPRINKLER'S FLOWING: 14	AVAILABLE @ SOURCE: 12.0 PSI
DENSITY/AREA: 10/130 SQ FT	TOTAL WATER WHOSE: 616.2 GPM
REQ'D @ SOURCE: 60.1 PSI	@ BOR: 366.2 gpm @ 60.5 PSI

HYDRAULICALLY CALCULATED AREA	
HAZARD: ORD 2, EXP 200C	SAFETY: 1.2 PSI
SPRINKLER'S FLOWING: 12	AVAILABLE @ SOURCE: 7.21 PSI
DENSITY/AREA: 20/130 SQ FT	TOTAL WATER WHOSE: 543.4 GPM
REQ'D @ SOURCE:	343.4 gpm @ 65.4 PSI

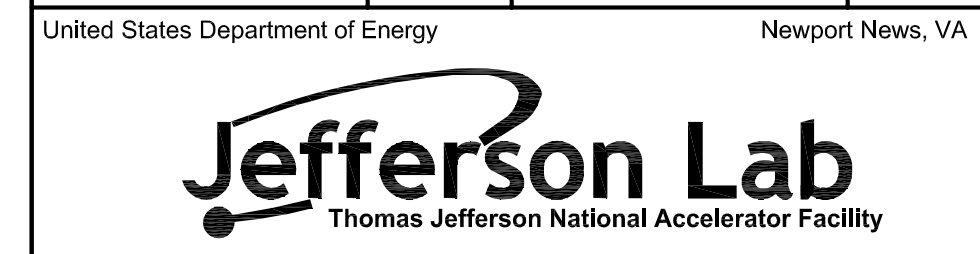


SECOND FLOOR PLAN - SPRINKLER - NEW WORK - ADD ALTERNATE NO.5

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

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COUNTING HOUSE REN.
SECOND FLOOR PLAN - SPRINKLER - NEW WORK -
ADDITIVE ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		SP2.1	

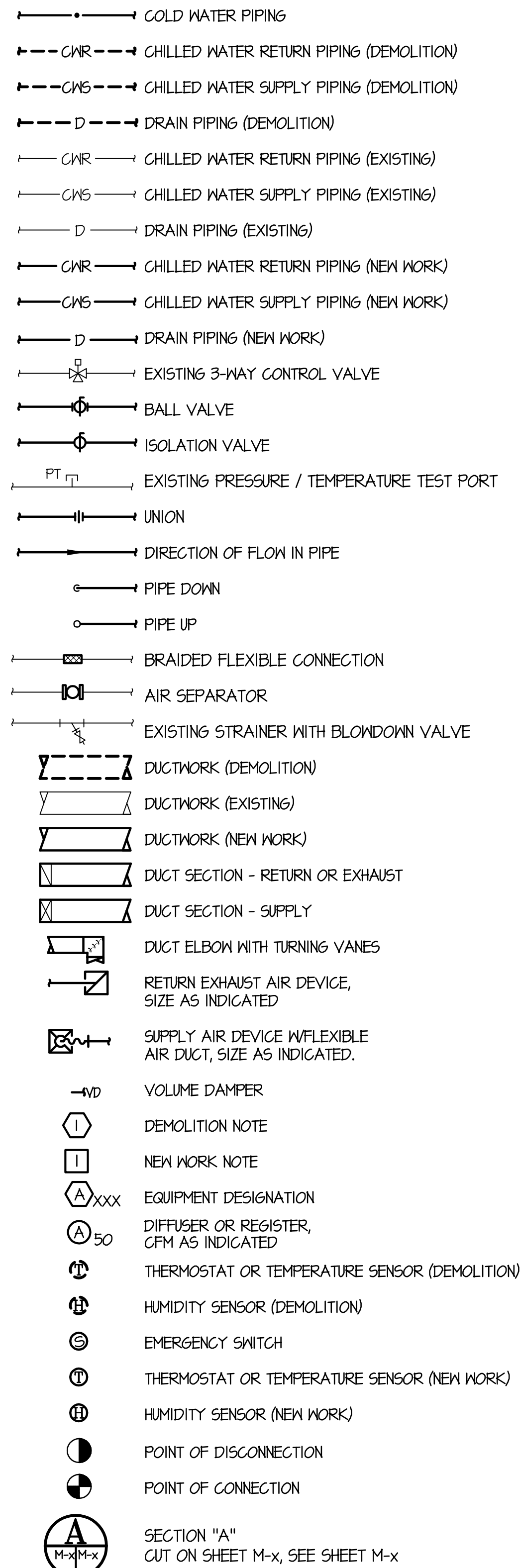
GENERAL NOTES:

- DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. INCREASE DUCT SIZES BY THICKNESS OF LINER AS APPLICABLE.
- DUCT DIMENSIONS MAY BE MODIFIED AS APPROVED BY ENGINEER.
- SEAL AROUND AND MAKE AIRTIGHT ALL DUCTS AND PIPES PENETRATING INSULATED WALLS.
- COORDINATE LOCATION OF ALL DUCTWORK, SUPPLY AND RETURN DEVICES, EXHAUST FANS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED EQUIPMENT WITH LIGHT FIXTURES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE BUILDING.
- ALL GRILLES AND REGISTERS TO HAVE A MINIMUM FREE AREA OF 70%.
- ARRANGE PIPING AND DUCTWORK PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, CONDUIT, LIGHTS, ETC., ALLOWING SPACE FOR HANGERS, INSULATION, ETC.
- ALL PIPING, VALVES, DUCTWORK, ETC., SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- PIPING ARRANGEMENTS ARE DIAGRAMMATIC.
- PIPING PASSING THROUGH WATERPROOF MEMBRANES SHALL BE MADE WATERTIGHT. PROVIDE FLASHING COLLARS AS REQUIRED.

GENERAL DEMOLITION NOTES:

- CONTRACTOR SHALL VISIT JOB SITE TO DETERMINE EXTENT OF WORK INVOLVED PRIOR TO BIDDING THE PROJECT.
- WHERE EQUIPMENT IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF EQUIPMENT, INCLUDING CURBS, SUPPORTS, GUYS, ANCHORS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO EQUIPMENT UNLESS OTHERWISE NOTED. OWNER MAINTAINS THE OWNERSHIP OF ALL ITEMS TAGGED OR IDENTIFIED.
- WHERE PIPING IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF PIPING, INCLUDING VALVES, FITTINGS INSULATION, SUPPORTS, HANGERS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE PIPING. PIPING IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET, FITTING AND VALVE. REMOVE PIPING AS INDICATED AND SPECIFIED.
- WHERE DUCTWORK IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF DUCTWORK, INCLUDING FITTINGS, INSULATION, SUPPORTS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE DUCTWORK. DUCTWORK IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET AND FITTING. REMOVE DUCTWORK AS INDICATED AND SPECIFIED.

LEGEND:



ABBREVIATIONS:

ACC-CH-x	AIR COOLED CHILLER DESIGNATION	KW	KILOWATT
AHU-CH-x	AIR HANDLING UNIT DESIGNATION	LAT	LEAVING AIR TEMPERATURE
BS-CH-x	BRANCH SELECTOR DESIGNATION	LBS	POUNDS
CFM	CUBIC FEET PER MINUTE	MAX.	MAXIMUM
CU-CH-x	CONDENSING UNIT DESIGNATION	MBH	THOUSANDS BRITISH THERMAL UNITS PER HOUR
CWR	CHILLED WATER RETURN	MCA	MINIMUM CIRCUIT AMPACITY
CWS	CHILLED WATER SUPPLY	MIN.	MINIMUM
CRAC-CH-x	COMPUTER ROOM AIR CONDITIONING UNIT DESIGNATION	MOP	MAXIMUM OVER CURRENT PROTECTION
CSF	CHEMICAL SHOT FEEDER	NG	NOISE CRITERIA
°F	DEGREES FAHRENHEIT	NO.	NUMBER
ΔP	PRESSURE DROP	OA	OUTSIDE AIR
D.	CONDENSATE DRAIN	OU-CH-x	VRF OUTDOOR UNIT DESIGNATION
dB	DECIBELS	PH	PHASE
DB	DRY BULB	RA	RETURN AIR
DDC	DIRECT DIGITAL CONTROL	RL	RAIN LEADER
DN	DOWN	RL	REFRIGERANT LIQUID
EA.	EACH	RHG	REFRIGERANT GAS
EAT	ENTERING AIR TEMPERATURE	RH	RELIEF HOOD
EF	EXHAUST FAN	RH	RELATIVE HUMIDITY
EF-CH-x	EXHAUST FAN DESIGNATION	RTU-CH-x	ROOFTOP UNIT DESIGNATION
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
EUH-CH-x	ELECTRICAL UNIT HEATER DESIGNATION	SAF-CH-x	SUPPLY AIR FAN DESIGNATION
ENH-CH-x	ELECTRICAL WALL HEATER DESIGNATION	SCU-CH-I	CONDENSING UNIT DESIGNATION FOR 100% OUTSIDE AIR UNIT
ENT	ENTERING WATER TEMPERATURE	SENS.	SENSIBLE
FA	FACE AREA	SS-CH-I	100% OUTSIDE AIR INDOOR UNIT DESIGNATION
FLA	FULL LOAD AMP	TYP.	TYPICAL
GPM	GALLONS PER MINUTE	V	VOLTS
HP	HORSEPOWER	VRF	VARIABLE REFRIGERANT FLOW
HR	HOUR	VRF-CH-x	VRF SYSTEM DESIGNATION
HUM	HUMIDITY	W	WATTS
HUM-CH-x	HUMIDIFIER DESIGNATION	WB	WET BULB
IN WG	INCHES WATER GAUGE	WC	WATER COLUMN
IU-CH-x	VRF INDOOR UNIT DESIGNATION	WH	WATER HEATER

DESIGN DATA TABLE:

	CRAC-CH-1,2,3	CRAC-4	VRF-CH-X	100% OUTSIDE AIR UNIT
SYSTEM	HVAC SYSTEM REFRIGERANT			
DESIGN WORKING PRESSURE (PSIG)	230	230	446.3	446.3
DESIGN WORKING TEMPERATURE (°F)	110	110	125	125
SYSTEM FLUID	R-407C	R-407C	R-410A	R-410A
DESIGN CODE USED	INTERNATIONAL MECHANICAL CODE, 2009			
FLUID CATEGORY	REFRIGERANT			
PIPING MATERIAL	NITROGEN FILLED ACR TUBING			
FABRICATION ORGANIZATION	INSTALLATION CONTRACTOR	DAIKIN	AAON	
DESIGN ORGANIZATION	THOMPSON CONSULTING ENGINEERS			
JOINT EXAMINATION REQUIREMENTS	VISUAL AND MANUFACTURER RECOMMENDED EXTERNAL SOAP SOLUTION			
TESTING REQUIREMENTS	NITROGEN GAS TO DESIGN PRESSURE OF CONDENSING UNIT. RECOMMENDED BY MANUFACTURER. DOCUMENT ON PRESSURE TEST FORM			

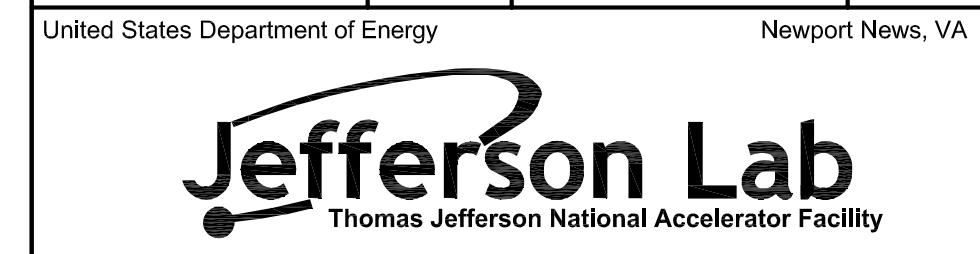


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COUNTING HOUSE REN.
LEGEND, ABBREVIATIONS AND GENERAL NOTES

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M0.1	

COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	EVAPORATOR SECTION										UNIT NO.	CONDENSER FAN SECTION			SELECTION BASED ON "LIEBERT"		REMARKS			
	CFM	ESP (IN. WG)	FAN HP	E.A.T. (% RH)		NET CAPACITY (MBH)		REHEAT KW	HUMIDIFIER LBS/HR	ELECTRICAL (VOLTS PH FLA)		NO.	FLA (EA.)	VOLTS	PH	INDOOR		OUTDOOR		
CRAC-CH-1	9,000	0.2	5.0	72.0	50%	103.0	218.5	25.0	22	480	3	54.5	CU-CH-1	4	7.6	480	3	DS070	TCDV415A	① ③ ④ ⑤
CRAC-CH-2	7,500	0.2	3.0	72.0	50%	154.2	179.5	25.0	22	480	3	53.9	CU-CH-2	3	5.9	480	3	DS053	TCDV308A	① ③ ④ ⑤
CRAC-CH-3	7,500	0.2	3.0	72.0	50%	154.2	179.5	25.0	22	480	3	53.9	CU-CH-3	3	5.9	480	3	DS053	TCDV308A	① ③ ④ ⑤
CRAC-CH-4	3,750	0.5	3.0	72.0	50%	77.9	90.4	11.5	10	480	3	31.3	CU-CH-4	3	17.4	480	3	MMD96E	PFH096A	① ② ③ ④ ⑤

REMARKS: ① CONDENSING UNIT AMBIENT DESIGN @ 100° F. ⑤ REFRIGERANT SHALL BE R-407C.
 ② UNIT SHALL HAVE FRONT SUPPLY AND REAR RETURN.
 ③ PROVIDE CONDENSATE PUMP.
 ④ REFER TO SPECIFICATIONS FOR UNIT FEATURES.

VRF INDOOR HEAT PUMP SCHEDULE

UNIT NO.	DESCRIPTION	TOTAL CFM	COOLING			HEATING			dB(A)	UNIT WEIGHT (LBS.)	ELECTRICAL			SELECTION BASED ON "DAIKIN"	REMARKS
			EAT DB(°F)	WB(°F)	TOTAL (MBH)	EAT DB(°F)	TOTAL (MBH)	VOLTS			PH	MCA			
IU-CH-1	CEILING RECESSED 4-WAY BLOW	320	79.0	67.3	17.1	60.9	15.3	33	53	230	1	0.1	FXFQ18MVJJ	① TO ⑥	
IU-CH-2	ROUND FLOW CEILING RECESSED 4-WAY BLOW	560	79.0	67.3	17.1	60.9	15.3	33	55	230	1	0.4	FXFQ18PVJJ	① TO ⑥	
IU-CH-3	ROUND FLOW CEILING RECESSED 4-WAY BLOW	780	76.2	64.1	20.5	66.0	20.2	34	61	230	1	0.5	FXFG24PVJJ	① TO ⑥	
IU-CH-4	CEILING SUSPENDED 1-WAY BLOW	410	76.2	64.1	11.1	66.0	12.0	42	55	230	1	0.8	FXHQ12MVJJ	① TO ⑥	
IU-CH-5	CEILING SUSPENDED 1-WAY BLOW	710	76.2	64.1	22.1	66.0	25.5	44	80	230	1	1.0	FXHQ24MVJJ	① TO ⑥	
IU-CH-6	CONCEALED DUCTED	335	75.0	57.3	7.5	70.0	10.1	34	55	230	1	0.6	FXMQ12PVJJ	① TO ⑥	
IU-CH-7	CEILING RECESSED 4-WAY BLOW	320	80.2	68.8	7.1	60.9	6.4	31	42	230	1	0.8	FXZQ07MTVJJ	① TO ⑥	
IU-CH-8	CEILING RECESSED 4-WAY BLOW	320	76.2	64.1	8.2	66.6	8.3	32	42	230	1	0.8	FXZQ09MTVJJ	① TO ⑥	
IU-CH-9	CEILING RECESSED 4-WAY BLOW	444	76.2	63.8	14.7	66.6	15.2	41	42	230	1	0.9	FXZQ18MTVJJ	① TO ⑥	
IU-CH-10	CEILING SUSPENDED 1-WAY BLOW	830	76.2	64.1	33.3	66.6	37.5	46	90	230	1	1.4	FXHQ36MVJJ	① TO ⑥	

REMARKS: ① REFER TO PLANS FOR OUTSIDE AIR CFM REQUIREMENTS.
 ② SELECTION BASED ON HIGH SPEED FAN SETTINGS.
 ③ PROVIDE WITH WASHABLE FILTERS.
 ④ PROVIDE "SIMPLIFIED-BRC2A71" WALL MOUNTED THERMOSTAT.
 ⑤ ALL CONTROL WIRING BY MECHANICAL CONTRACTOR.
 ⑥ PROVIDE WITH INTEGRAL CONDENSATE LIFT MECHANISM.

100% OUTSIDE AIR SPLIT SYSTEM VENTILATION UNIT SCHEDULE

UNIT NO.	TOTAL CFM	FAN DATA			ELECTRIC HEATING COIL DATA				HOT GAS REHEAT DATA			DX COOLING COIL DATA						INDOOR UNIT ELECTRICAL				CONDENSING UNIT				SELECTION BASED ON "AAON"	REMARKS						
		OA CFM	ESP (IN.WC)	HP	FAN RPM	CAPACITY (MBH)	KW	EAT (°F)	LAT (°F)	TOTAL (MBH)	EAT (°F)DB	LAT (°F)WB	MIN. COIL FA (SF)	TOTAL (MBH)	SENS (MBH)	EAT (°F)DB	(°F)DB	(°F)DB	(°F)DB	APD (IN.WC)	UNIT WEIGHT (LBS.)	VOLTS	PH	MCA	MOP			UNIT NO.	NO. OF COMPRESSORS	ELECTRICAL		UNIT WEIGHT (LBS.)	
SS-CH-1	850	850	1.5	2	1693	53.9	21	15	73.8	17	53.6	72.5	3.5	66.1	34.9	95	78	53.5	53.4	0.25	658	208	3	63	70	SCU-CH-1	2	208	3	31	40	544	① TO ⑤

REMARKS: ① REFER TO SPECIFICATIONS FOR OPTIONS AND FEATURES. ③ COOLING CAPACITY INDICATED IS NET. ⑤ PROVIDE UNIT WITH SCR HEATING CAPACITY CONTROL.
 ② PROVIDE INDOOR UNIT WITH SINGLE POINT POWER CONNECTION. ④ REFRIGERANT TYPE R-410A.



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COUNTING HOUSE REN.
MECHANICAL SCHEDULES

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M0.2	

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	NECK SIZE	FACE SIZE	DESCRIPTION	MATERIAL	FINISH	VOLUME DAMPER	SHAPE	MAXIMUM Δ P	MAXIMUM NC	SELECTION BASED ON "PRICE"	REMARKS
(A)	8"φ	-	ROUND FLOOR REGISTER	FIRE RATED POLYMER	WHITE	YES	ROUND	0.046"	<20	RFTD	(1)
(B)	6"φ	24" x 24"	LOUVERED FACED CEILING DIFFUSER	ALUMINUM	WHITE	NO	SQUARE	0.1"	20	A5CD	(2)(3)
(C)	8"φ	24" x 24"	LOUVERED FACED CEILING DIFFUSER	ALUMINUM	WHITE	NO	SQUARE	0.1"	20	A5CD	(2)(3)
(D)	15"φ	24" x 24"	PERFORATED CEILING DIFFUSER	ALUMINUM	WHITE	NO	SQUARE	0.045"	30	PDC	(2)(3)
(X)											
(1)	16" x 16"	24" x 24"	CEILING RETURN GRILLE 45° DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	530FF	(2)(4)
(2)	22" x 22"	24" x 24"	EGG GRATE RETURN GRILLE	STEEL	WHITE	NO	SQUARE	0.03"	<20	SERIES 80	(2)

REMARKS: (1) COORDINATE DIFFUSER INSTALLATION REQUIREMENTS WITH FLOOR SYSTEM PANELS.
 (2) REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES. FOR ACOUSTIC CEILING, PROVIDE WITH 24" x 24" PANEL SUITABLE FOR MOUNTING IN LAY-IN GRID. FOR DRYWALL CEILING, PROVIDE WITH FULL FACE AND SURFACE MOUNT FRAME.
 (3) PROVIDE 4-CONE TYPE DIFFUSER.
 (4) PROVIDE WITH 1" FILTER.

VRF BRANCH SELECTOR SCHEDULE

UNIT NO.	VOLTS	PH	AMPS	WEIGHT (LBS.)	SELECTION BASED ON "DAIKIN"	REMARKS
B5-CH-1	230	1	0.1	26	B5VQ36PVJJ	(1)
B5-CH-2	230	1	0.1	26	B5VQ60PVJJ	(1)
B5-CH-3	230	1	0.1	33	B5VQ96PVJJ	(1)

REMARKS: (1) ALL CONTROL WIRING BY MECHANICAL CONTRACTOR.

VRF OUTDOOR UNIT SCHEDULE

UNIT NO.	OUTSIDE AIR (°F)DB		CAPACITY (MBH)		NO. STEPS CAPACITY	REFRIGERANT	COMPRESSOR				CONDENSER FAN		ELECTRICAL			UNIT WEIGHT (LBS)	SELECTION BASED ON "DAIKIN"	REMARKS
	SUMMER	WINTER	COOLING	HEATING			NO.	KW	V	PH	NO.	KW (EACH)	V	PH	MCA			
OJ-CH-1	95.0	47.0	286.7	291.6	MODULATING	R-410A	6	22.7	460	3	3	0.75	460	3	61.3	1610	REYQ336PBYD	(1)(2)(3)(5)
OJ-CH-2	95.0	47.0	265.9	291.1	MODULATING	R-410A	6	22.7	460	3	3	0.75	460	3	61.3	1610	REYQ336PBYD	(1)(2)(4)(5)

REMARKS: (1) THREE CIRCUITS UNIT.
 (2) TRIPLE UNIT: CONDENSER FAN AND ELECTRICAL DATA FOR (1) REMQ 96 AND (2) REMQ 120.
 (3) ADDITIONAL SYSTEM REFRIGERANT CHARGE = 20.2 LBS BASED ON PIPING LENGTH OF 1000 FEET. REFRIGERANT CHARGE BASED ON PIPING SIZE AND LENGTH PER PIPING SCHEMATIC ON M3.4.
 (4) ADDITIONAL SYSTEM REFRIGERANT CHARGE = 13.4 LBS BASED ON PIPING LENGTH OF 526 FEET. REFRIGERANT CHARGE BASED ON PIPING SIZE AND LENGTH PER SCHEMATIC ON M3.4.
 (5) CONTRACTOR SHALL PROVIDE ADDITIONAL REFRIGERANT CHARGE AS NEEDED ON ACTUAL INSTALLED PIPING SIZE AND LENGTH. CONTRACTOR SHALL INSTALL PIPING SIZE PER MANUFACTURER'S RECOMMENDATION.



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COUNTING HOUSE REN.
MECHANICAL SCHEDULES

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M0.3	

1 2 3 4 5 6

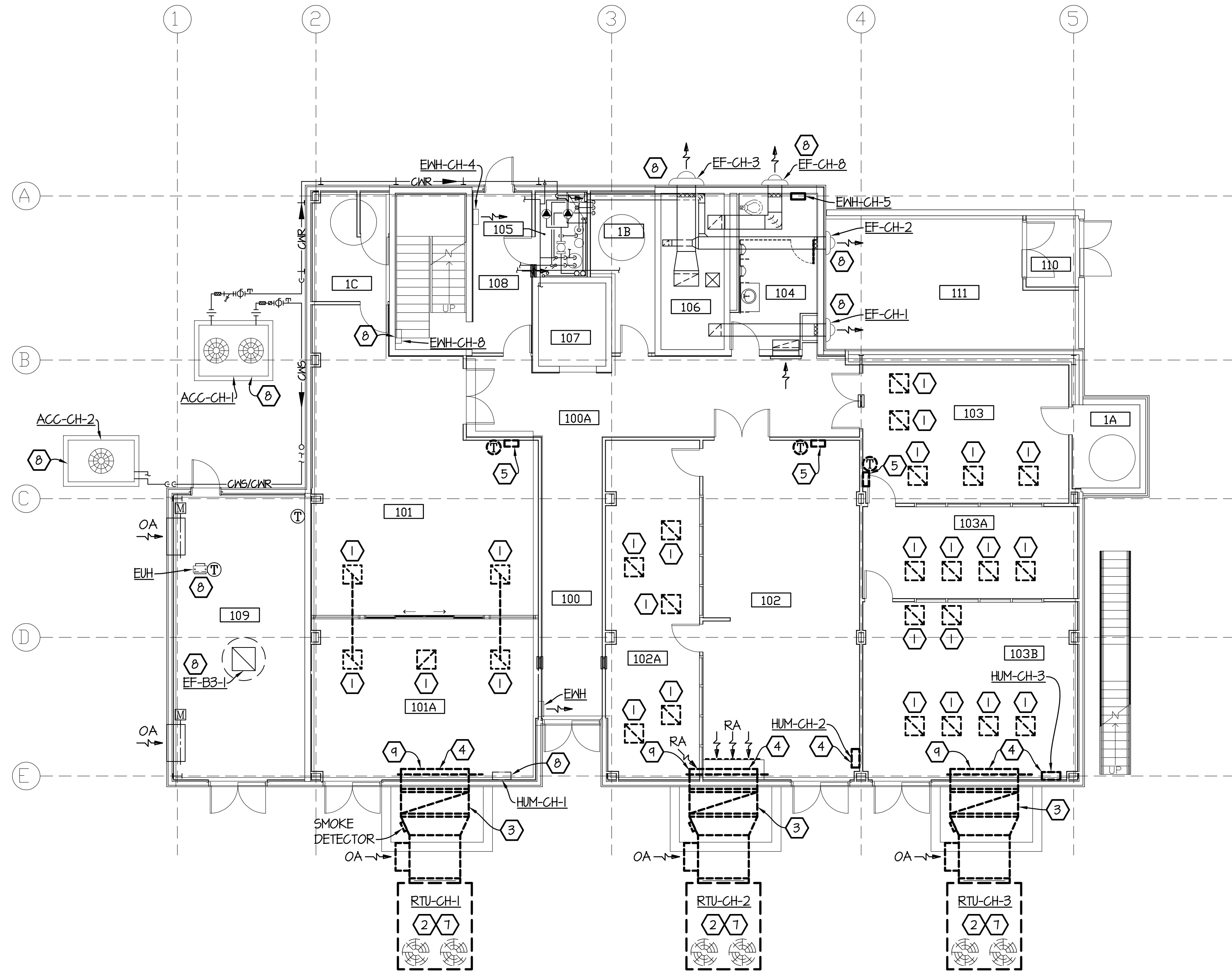
DEMOLITION NOTES: (THIS DRAWING ONLY)

- ① REMOVE CEILING MOUNTED RETURN AIR GRILLE.
- ② REMOVE PACKAGED AIR CONDITIONING UNIT COMPLETE INCLUDING EQUIPMENT SUPPORTS AND FOUNDATIONS.
- ③ REMOVE DUCTWORK COMPLETE INCLUDING ALL SUPPORTS.
- ④ REMOVE DUCT MOUNTED HUMIDIFIER AND ALL ASSOCIATED CONTROLLERS. CAP SUPPLY WATER PIPING AT BRANCH CONNECTION TO MAIN.
- ⑤ REMOVE WALL MOUNTED DDC EQUIPMENT CONTROLLER.
- ⑥ REMOVE WALL MOUNTED TEMPERATURE / HUMIDITY SENSOR.
- ⑦ DISCONNECT EXISTING EMERGENCY INTERLOCK WIRING AND RETAIN FOR REUSE. REFER TO ELECTRICAL DRAWINGS FOR FURTHER DETAILS.
- ⑧ EXISTING EQUIPMENT TO REMAIN.
- ⑨ REMOVE SMOKE DETECTOR COMPLETE. REFER TO ELECTRICAL DRAWINGS FOR FURTHER DETAILS.



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FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - BASE BID
SCALE: 1/8" = 1'-0"

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FIRST FLOOR PLAN - MECHANICAL - DEMOLITION -
BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M1.1	

1 2 3 4 5 6

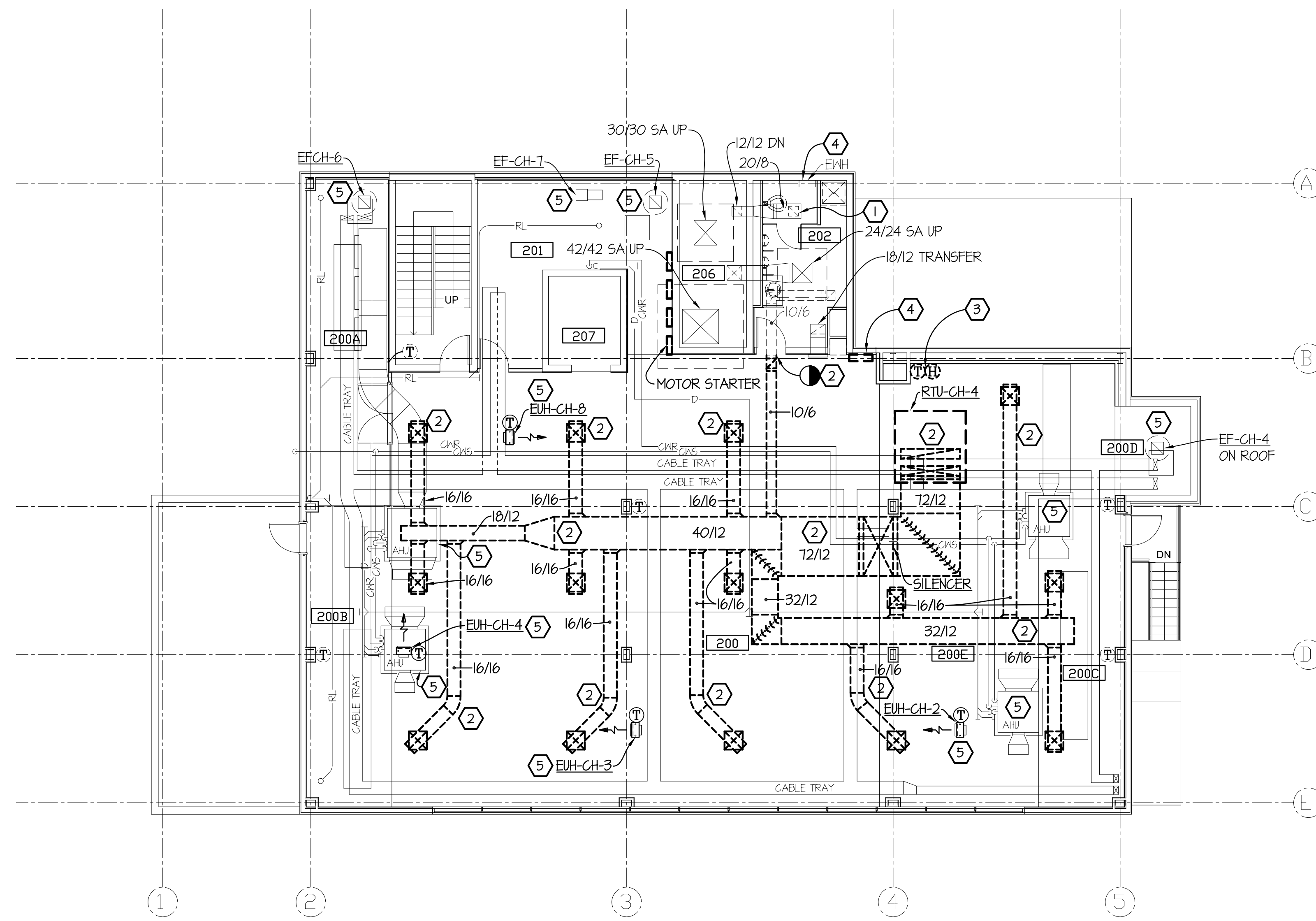
DEMOLITION NOTES: (THIS DRAWING ONLY)

- ① REMOVE CEILING MOUNTED RETURN AIR GRILLE (ADD ATL. NO.4).
- ② REMOVE DUCTWORK COMPLETE INCLUDING HANGERS, SUPPORTS AND SUPPLY AIR DIFFUSERS.
- ③ REMOVE THERMOSTAT/ HUMIDISTAT COMPLETE SERVING ROOF MOUNTED HEAT PUMP AIR CONDITIONING UNIT (RTU-CH-4).
- ④ REMOVE WALL MOUNTED CONTROL PANEL ASSOCIATED WITH RTU-CH-4.
- ⑤ MECHANICAL EQUIPMENT TO REMAIN.
- ⑥ REMOVE ELECTRIC WALL HEATER COMPLETE (ADD ALT. NO.4).



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COUNTING HOUSE REN.
SECOND FLOOR PLAN - MECHANICAL - DEMOLITION
- BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M1.2	

SECOND FLOOR PLAN - MECHANICAL - DEMOLITION - BASE BID

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

DEMOLITION NOTES:

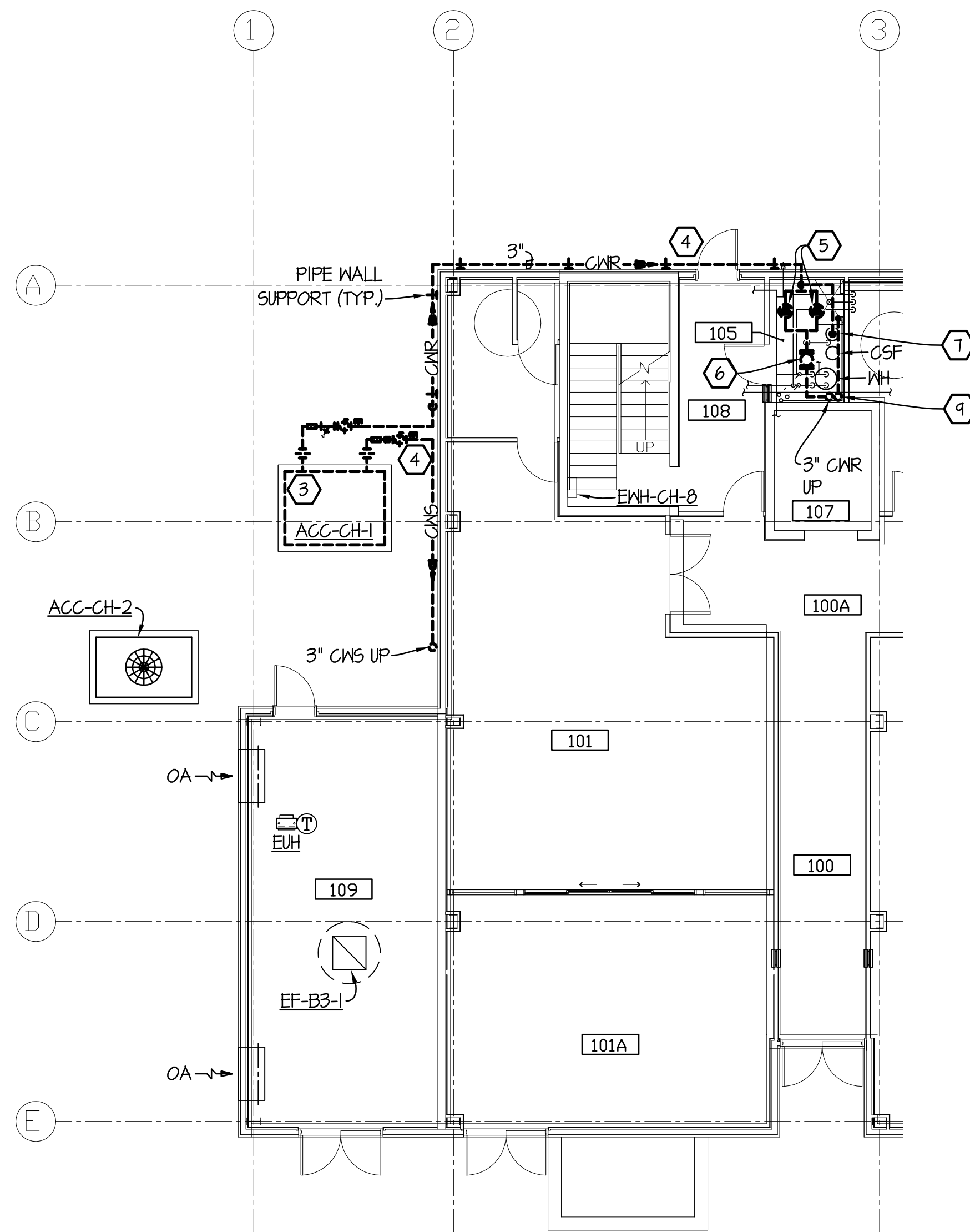
(THIS DRAWING ONLY)

- ① REMOVE CEILING MOUNTED RETURN AIR GRILLE (ADD ALT. NO.4).
- ② REMOVE DUCTWORK COMPLETE INCLUDING HANGERS, SUPPORTS AND SUPPLY AIR DIFFUSERS.
- ③ REMOVE AIR COOLED CHILLER COMPLETE.
- ④ REMOVE CHILLED WATER PIPING AND ALL ASSOCIATED WALL MOUNTED SUPPORTS AND HANGERS COMPLETE. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PATCHING REQUIREMENTS.
- ⑤ REMOVE INLINE CHILLED WATER PUMP AND ALL ASSOCIATED HANGERS AND SUPPORTS COMPLETE.
- ⑥ REMOVE AIR SEPARATOR COMPLETE INCLUDING ALL ASSOCIATED HANGERS AND SUPPORTS.
- ⑦ REMOVE EXPANSION TANK COMPLETE INCLUDING ALL SUPPORTS.
- ⑧ REMOVE CHILLED WATER PIPING COMPLETE INCLUDING ALL HANGERS AND SUPPORTS.
- ⑨ REMOVE CONDENSATE DRAIN PIPING. COMPLETE INCLUDING ALL HANGERS AND SUPPORTS.
- ⑩ REMOVE ELECTRIC UNIT HEATER COMPLETE INCLUDING ALL HANGERS AND SUPPORTS.
- ⑪ REMOVE AIR HANDLING UNIT COMPLETE INCLUDING ALL HANGERS AND SUPPORTS.
- ⑫ REMOVE MECHANICAL EQUIPMENT STARTER.
- ⑬ REMOVE THERMOSTAT/ TEMPERATURE SENSOR SERVING AIR HANDLING UNIT.



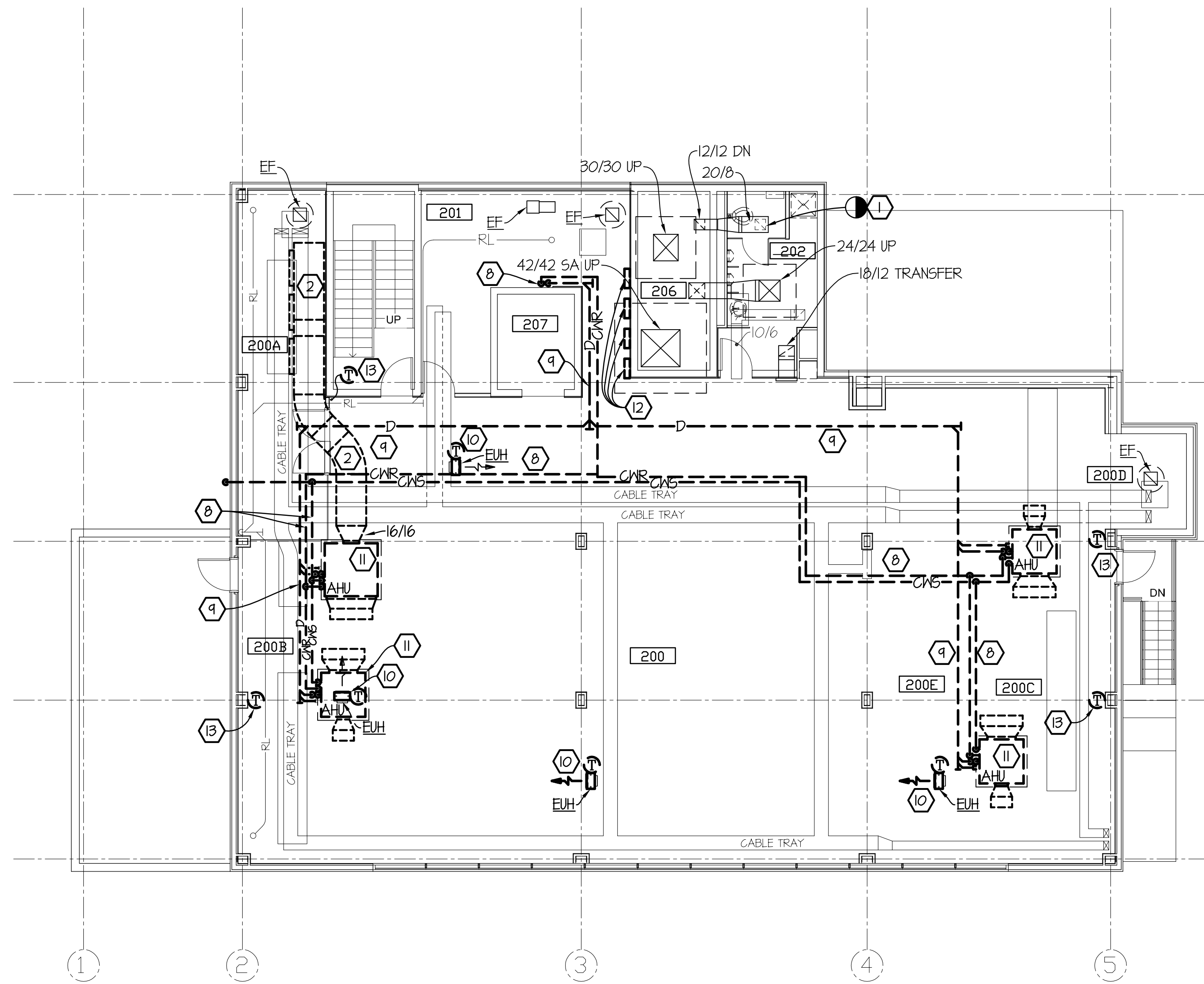
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**PARTIAL FIRST FLOOR PLAN - DEMOLITION
ADD ALTERNATE NO.5**

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



SECOND FLOOR PLAN - DEMOLITION - ADD ALTERNATE NO.5

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

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COUNTING HOUSE REN.
FIRST AND SECOND FLOOR PLAN - DEMOLITION -
ADDITIVE ALTERNATE

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M1.3	

1 2 3 4 5 6

A

B

C

D

A

B

C

D

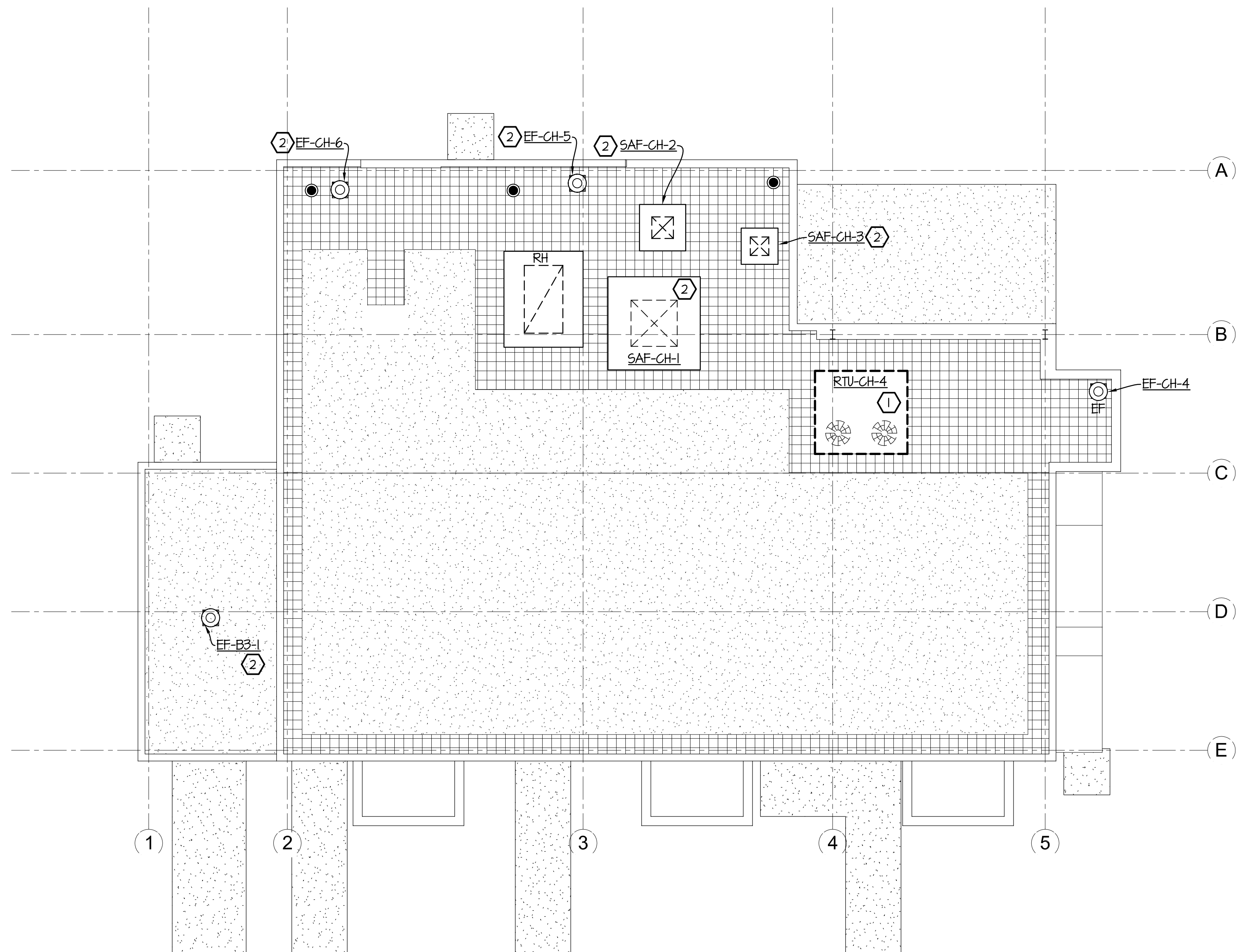
DEMOLITION NOTES: (THIS DRAWING ONLY)

- ① REMOVE ROOF MOUNTED HEAT PUMP COMPLETELY INCLUDING ROOF CURBS AND ASSOCIATED CONDENSATE DRAIN PIPING.
- ② MECHANICAL EQUIPMENT TO REMAIN.



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ROOF PLAN - DEMOLITION - BASE BID

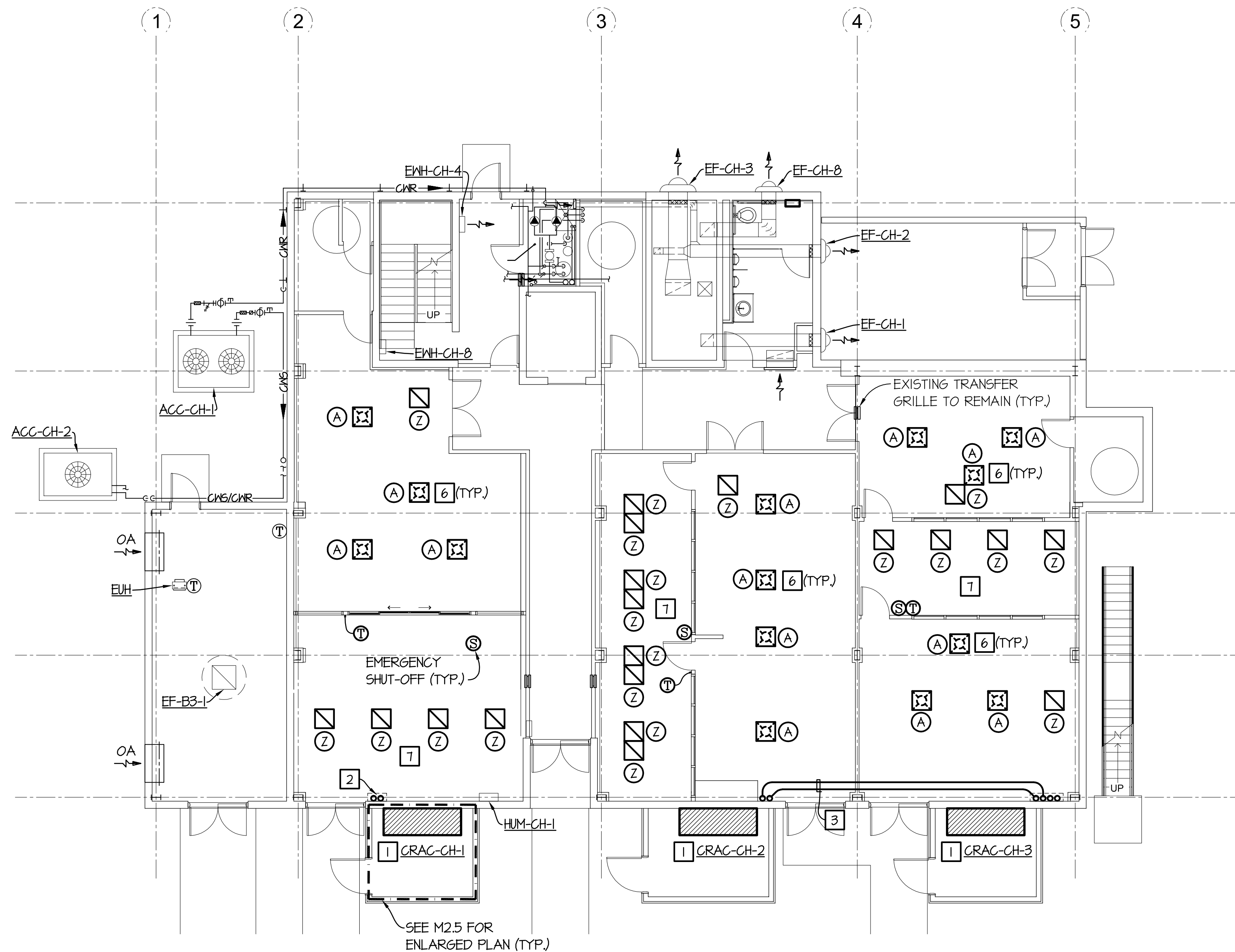
SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M1.4	

ROOF PLAN - MECHANICAL - DEMOLITION - BASE BID
SCALE: 1/8" = 1'-0"

1 2 3 4 5 6

SECOND FLOOR PLAN - MECHANICAL - NEW WORK - BASE BID

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



FIRST FLOOR PLAN - MECHANICAL - NEW WORK - BASE BID

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

NEW WORK NOTES: (THIS DRAWING ONLY)

- 1 NEW PACKAGED COMPUTER ROOM AIR CONDITIONER, LOCATE IN CONDITIONED MECHANICAL ROOM. CONNECT UNIT SUPPLY AIR TO EXISTING UNDER FLOOR AIR DISTRIBUTION PLENUM.
- 2 RUN REFRIGERANT PIPING UP THROUGH CHASE. REFER TO ARCHITECTURAL DRAWINGS FOR CHASE DETAILS.
- 3 RUN REFRIGERANT PIPING THROUGH CEILING PLENUM.
- 4 RUN REFRIGERANT PIPING CLEAR OF ALL CABLE TRAY SYSTEMS. DO NOT OBSTRUCT ACCESS TO CABLE TRAY.
- 5 REFRIGERANT PIPING UP THROUGH ROOF. REFER TO DRAWING M3.1 FOR PIPE PORTAL DETAILS.
- 6 EXACT PLACEMENT OF FLOOR REGISTER SHALL BE COORDINATED W/FURNITURE ARRANGEMENT. COORDINATE DIFFUSER INSTALLATION W/FLOOR SYSTEM PANELS.
- 7 RELOCATE EXISTING PERFORATED FLOOR TILES TO ALIGN THE ENTIRE FACE OF THE "COLD SIDE" OF THE COMPUTER EQUIPMENT.



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FIRST AND SECOND FLOOR PLAN - MECHANICAL -
NEW WORK - BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M2.1	

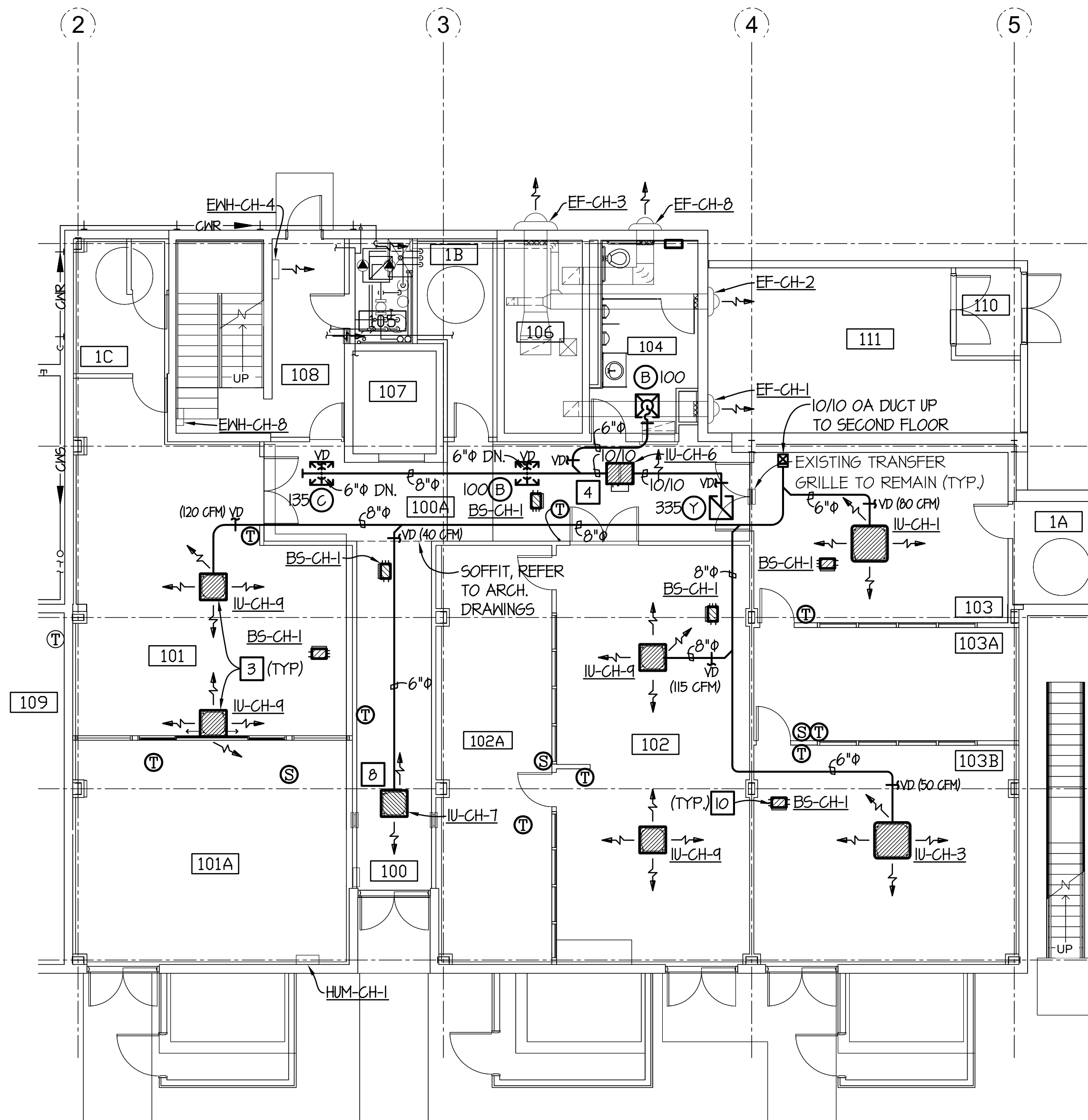
NEW WORK NOTES: (THIS DRAWING ONLY)

- 1 VARIABLE REFRIGERANT FLOW BRANCH SELECTOR UNITS AS SCHEDULED.
- 2 DUCT DOWN INTO NEW DUCT CHASE. REFER ARCHITECTURAL PLANS FOR CHASE CONSTRUCTION DETAILS.
- 3 VARIABLE REFRIGERANT FLOW FOUR WAY CASSETTES AS SCHEDULED.
- 4 VARIABLE REFRIGERANT FLOW CEILING CONCEALED DUCTED UNITS AS SCHEDULED.
- 5 VARIABLE REFRIGERANT FLOOR ONE WAY CEILING SUSPENDED UNIT AS SCHEDULED.
- 6 MAINTENANCE AND ACCESS SPACE.
- 7 NEW COMPUTER ROOM AIR CONDITIONER, CONCEALED ABOVE CEILING. MOUNT CONDENSING UNIT ON ROOF AND ROUTE REFRIGERANT LINES ABOVE CEILING.
- 8 VARIABLE REFRIGERANT FLOW TWO WAY BLOW UNIT.
- 9 INTERLOCK CONTROL DAMPER TO OPEN WITH 95-CH-1 WHEN UNIT ENABLES.

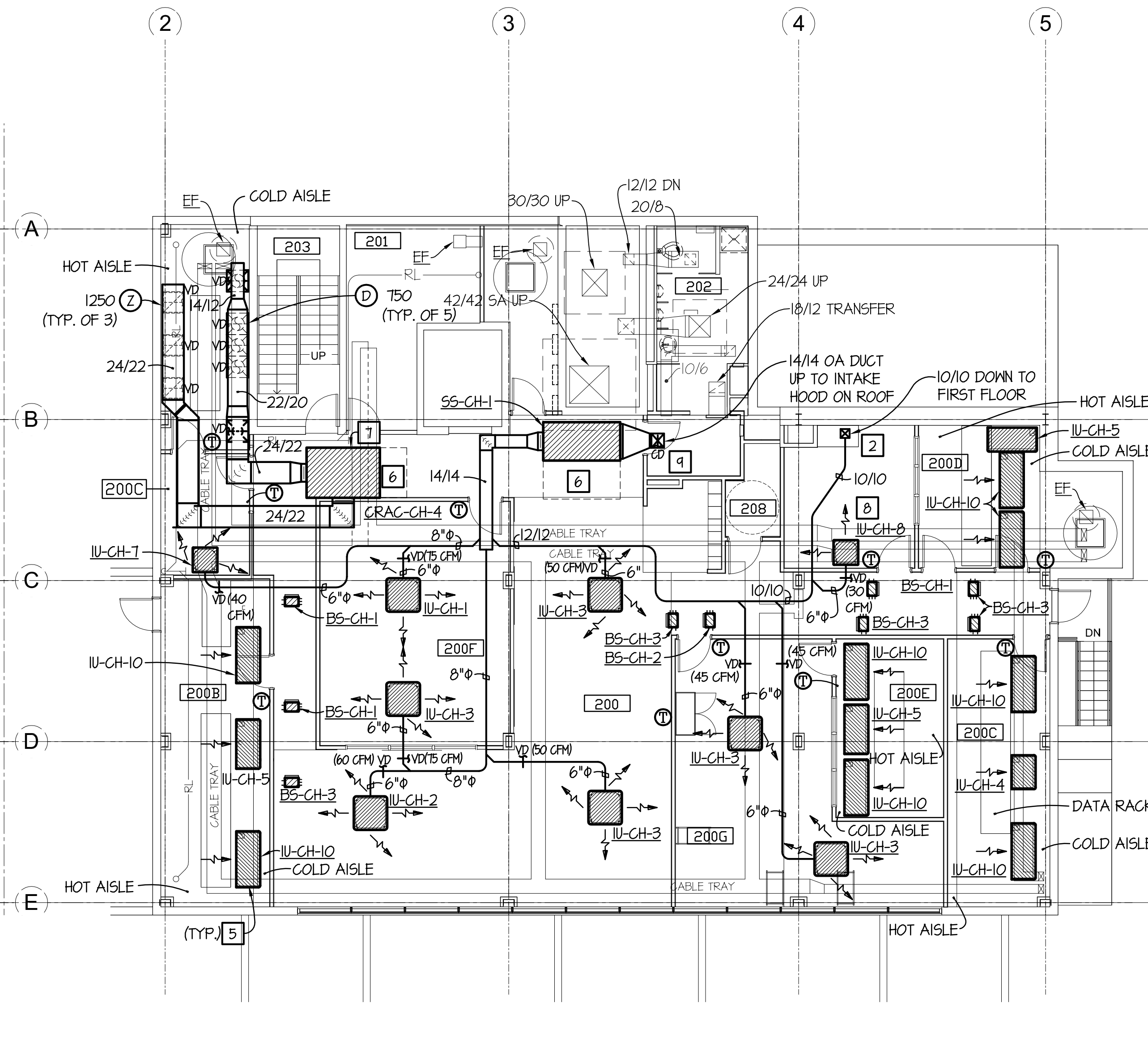


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**FIRST FLOOR PLAN - MECHANICAL - NEW WORK
ADD ALTERNATE NO.5**
SCALE: 1/8" = 1'-0"



**SECOND FLOOR PLAN - MECHANICAL - NEW WORK
ADD ALTERNATE NO.5**
SCALE: 1/8" = 1'-0"

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COUNTING HOUSE REN.
FIRST FLOOR PLAN - MECHANICAL - NEW WORK - ADD ALTERNATE NO. 5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M2.2	



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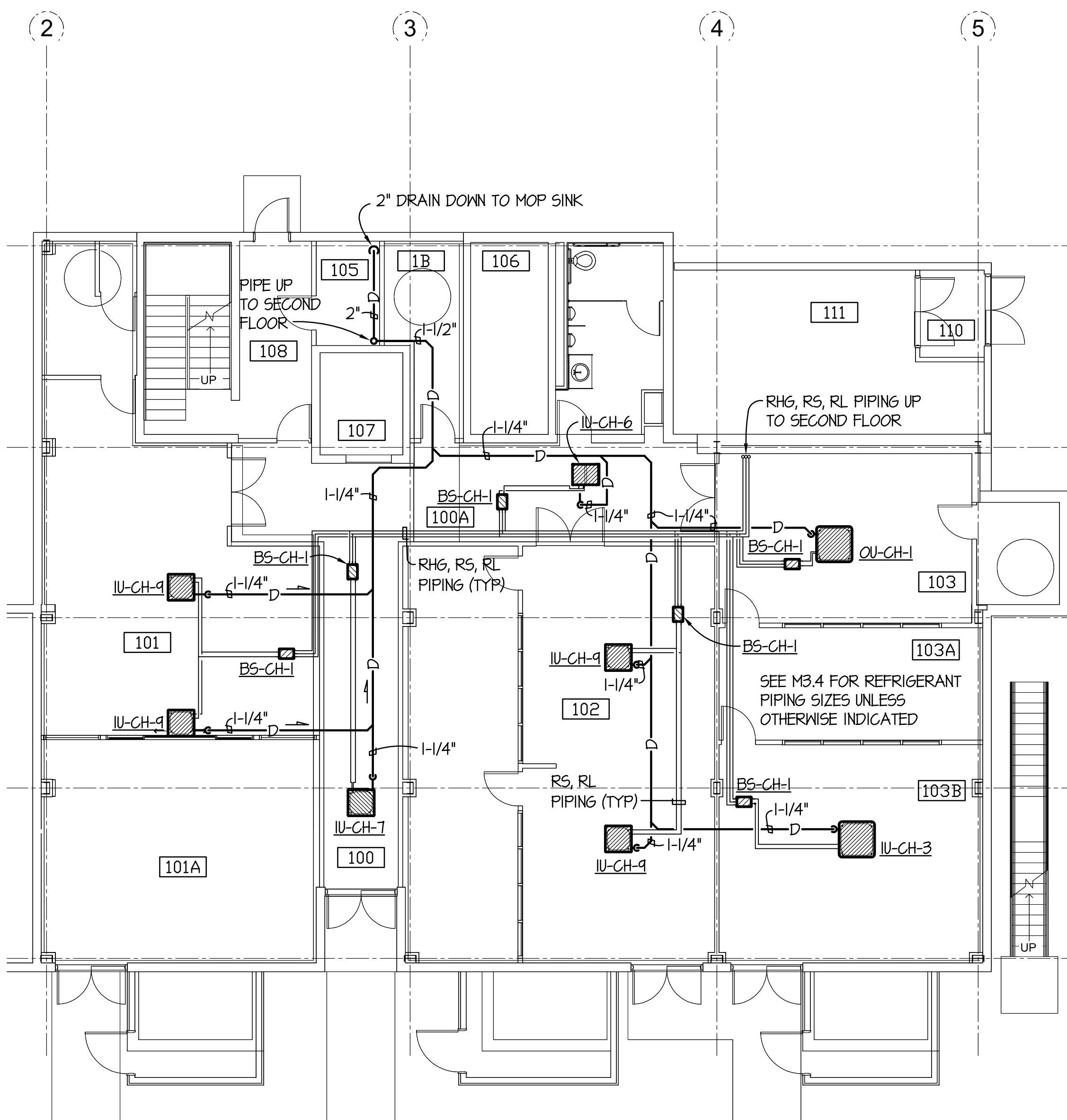
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GENERAL NOTES: (THIS DRAWING ONLY)

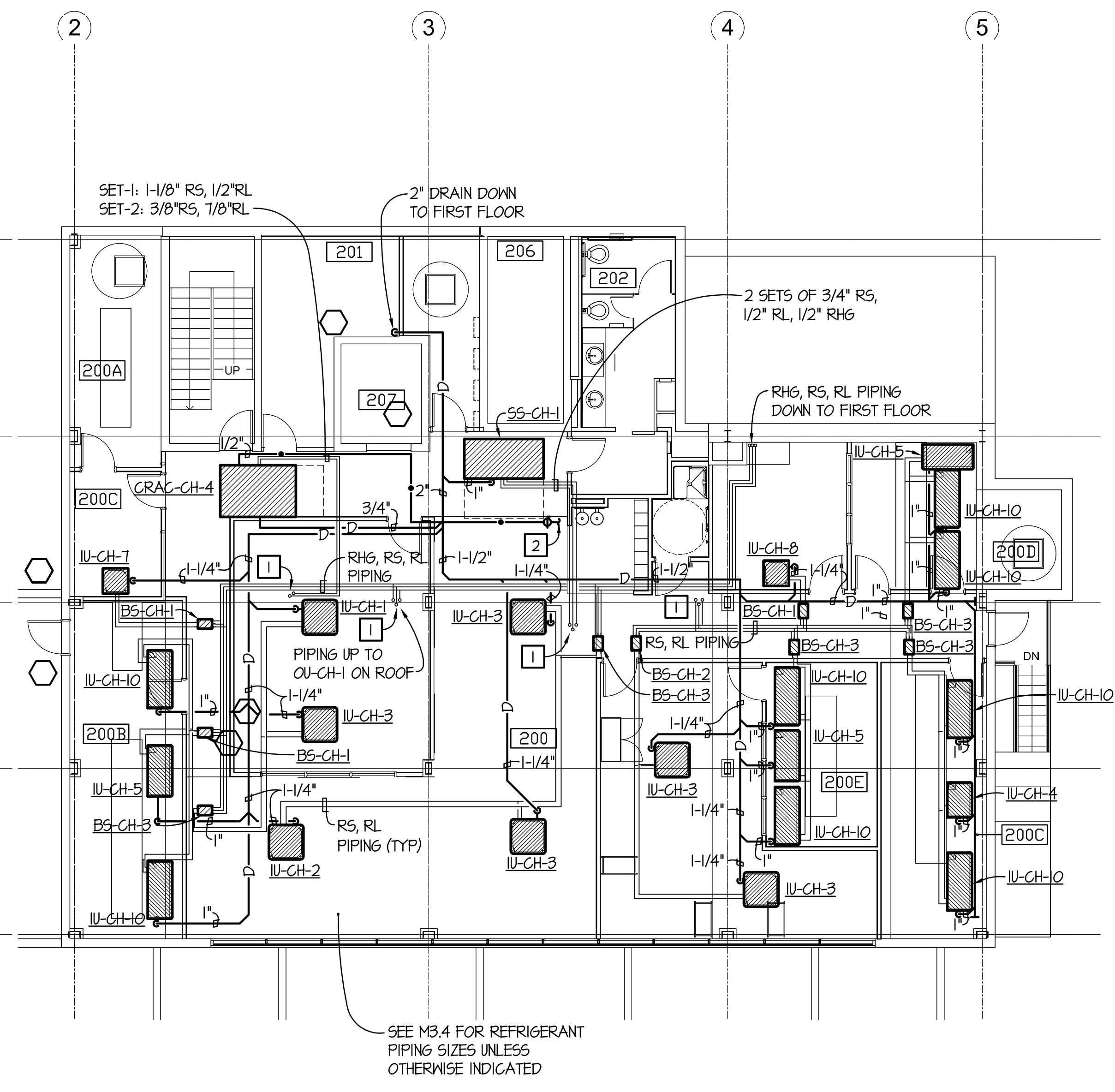
1. RUN VARIABLE FLOW REFRIGERANT PIPING CLEAR OF ALL CABLE TRAY SYSTEMS. DO NOT OBSTRUCT ACCESS TO CABLE TRAY.
2. REFER TO DRAWING M3.4 FOR REFRIGERANT PIPING SIZES.

NEW WORK NOTES: (THIS DRAWING ONLY)

1. REFRIGERANT PIPING UP THROUGH ROOF. REFER TO DRAWING M3.1 FOR THE PIPE PORTAL DETAILS.
2. REFER TO PLUMBING DRAWING P2.2 FOR CONTINUATION.



FIRST FLOOR PLAN - MECHANICAL - NEW WORK PIPING - ADD ALTERNATE NO.5
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN - MECHANICAL - NEW WORK PIPING - ADD ALTERNATE NO.5
SCALE: 1/8" = 1'-0"

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COUNTING HOUSE REN.
FIRST FLOOR PLAN - MECHANICAL - NEW WORK - PIPING - ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M2.3	

1 2 3 4 5 6

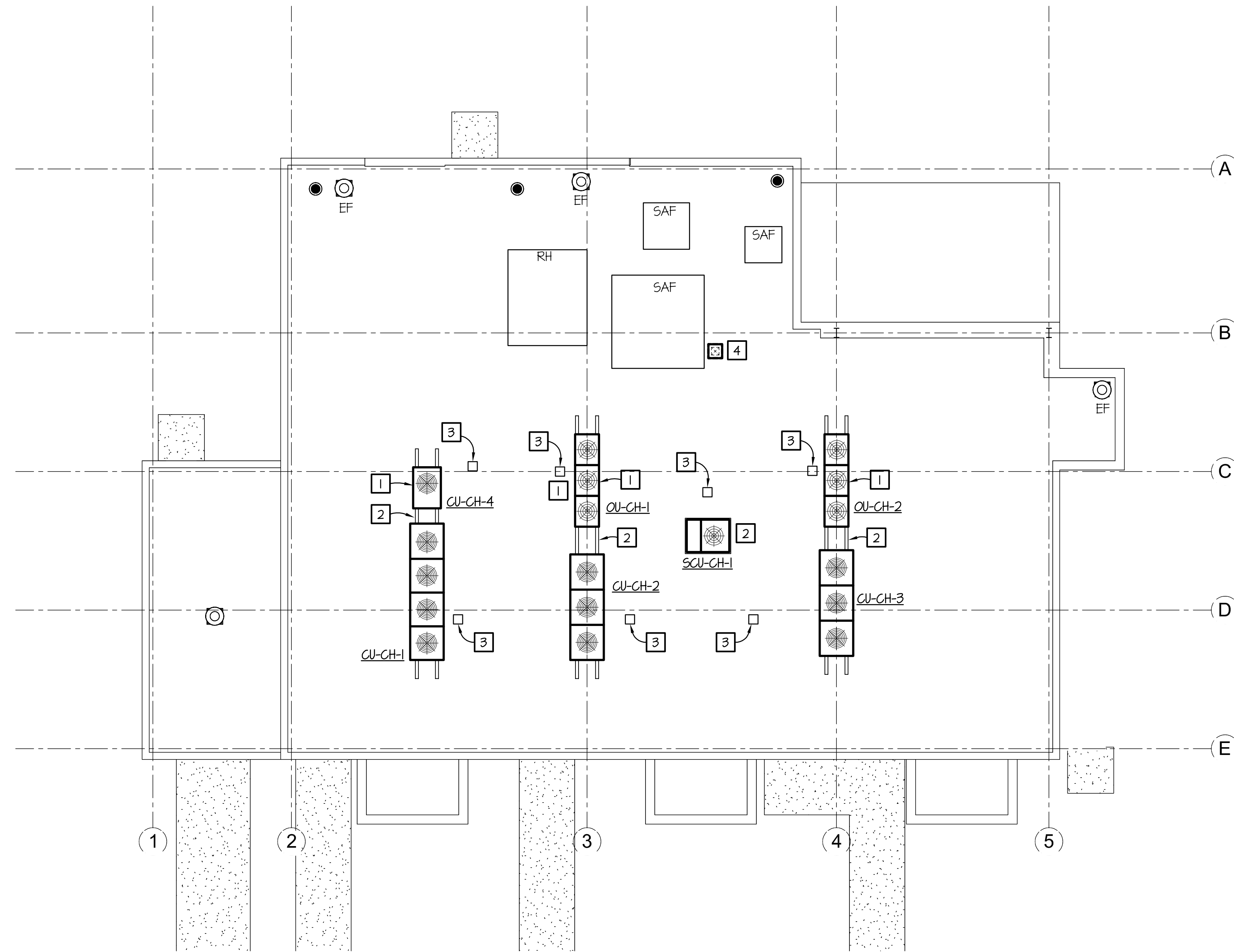
NEW WORK NOTES: (THIS DRAWING ONLY)

- 1 PROVIDE PIPING UNDER ADD ALTERNATE NO. 5.
- 2 PROVIDE EQUIPMENT RAILS TO SUPPORT CONDENSING UNITS UNDER BASE BID.
- 3 PROVIDE PIPE/CONDUIT PORTAL UNDER BASE BID.
- 4 PROVIDE OUTSIDE AIR INTAKE HOOD CURB. PROVIDE OUTSIDE AIR INTAKE HOOD, CURB AND CAP UNDERNEATH UNDER BASE BID.



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ROOF PLAN - MECHANICAL - NEW WORK
SCALE: 1/8" = 1'-0"

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ROOF PLAN - MECHANICAL - NEW WORK

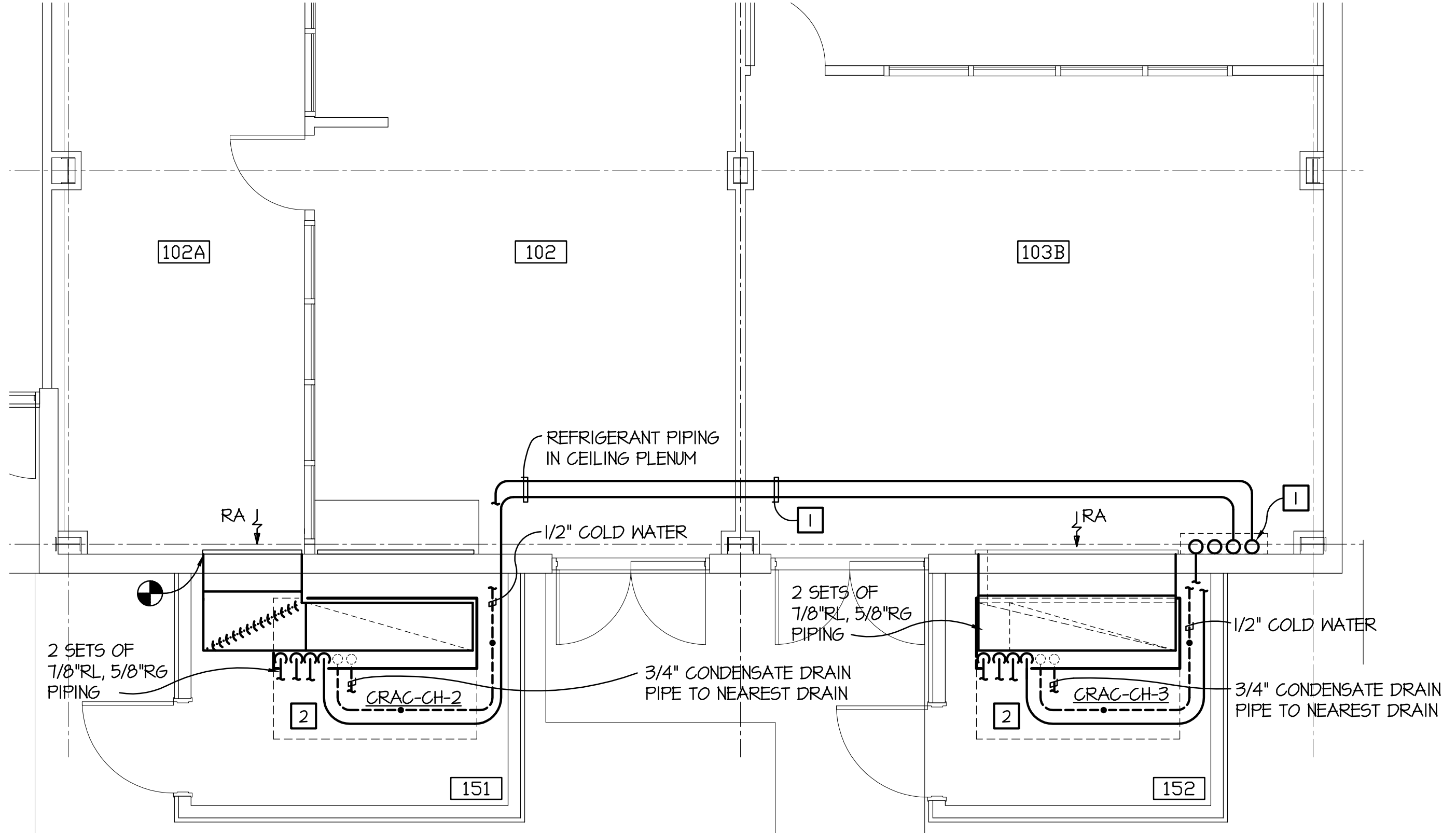
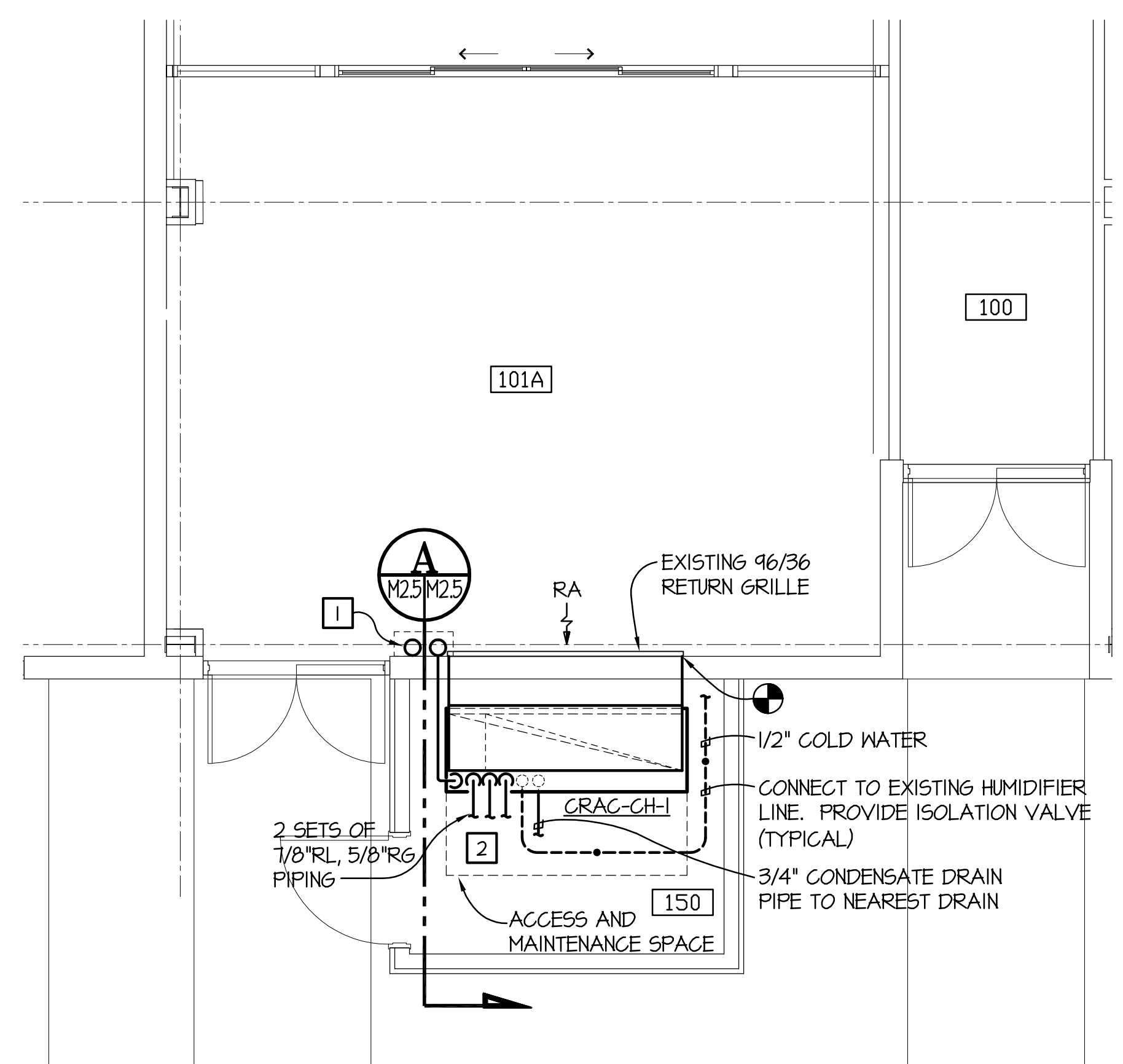
SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M2.4	

1 2 3 4 5 6



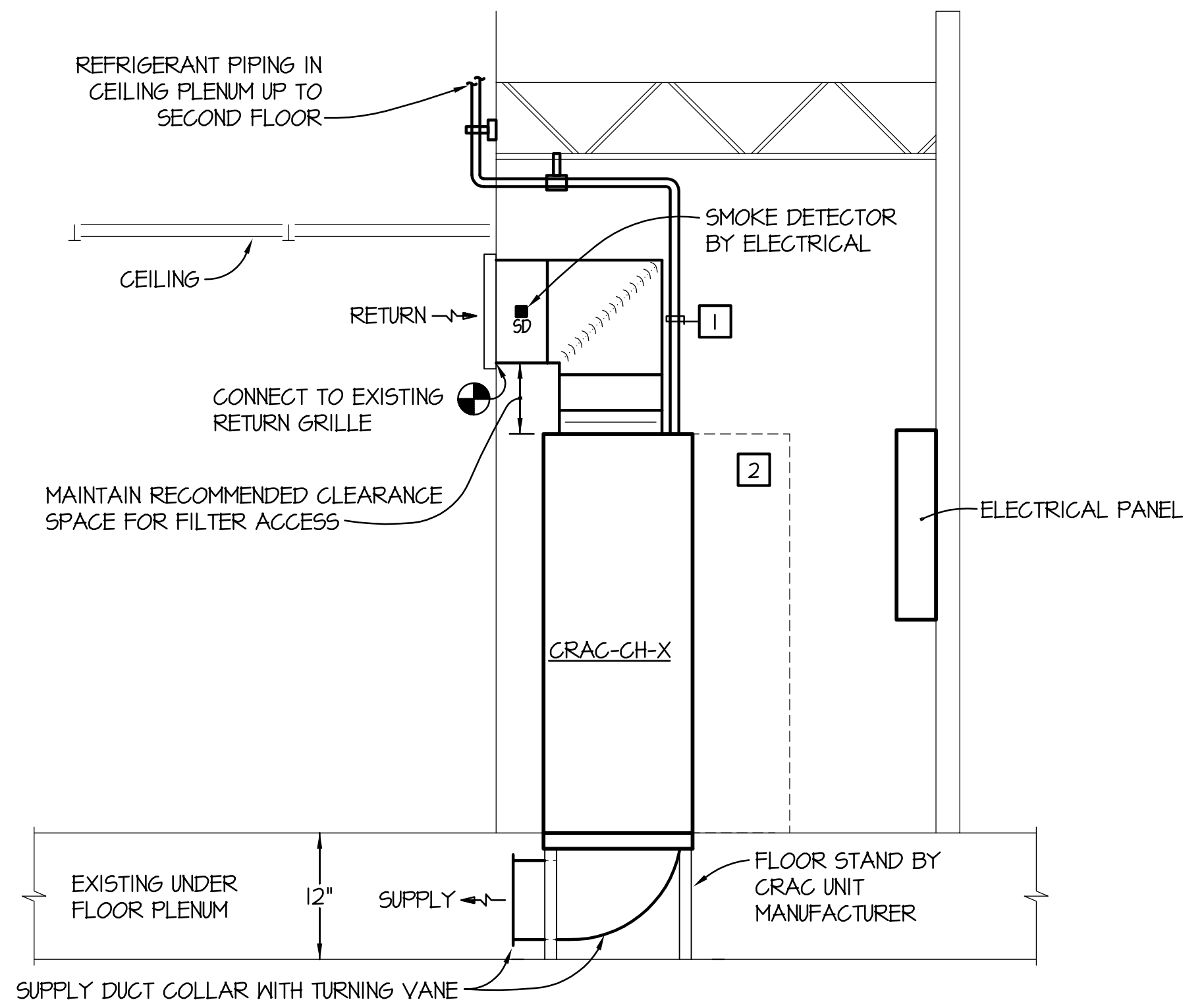
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ENLARGED PLANS - MECHANICAL - NEW WORK

SCALE: 1/4" = 1'-0"



NEW WORK NOTES: (THIS SHEET ONLY)

- 1 PROVIDE REFRIGERANT PIPING SIZE PER MANUFACTURER'S RECOMMENDATIONS.
- 2 ACCESS AND MAINTENANCE SPACE.

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02/29/12

REV.	ZONE	DESCRIPTION	APPR.	DATE

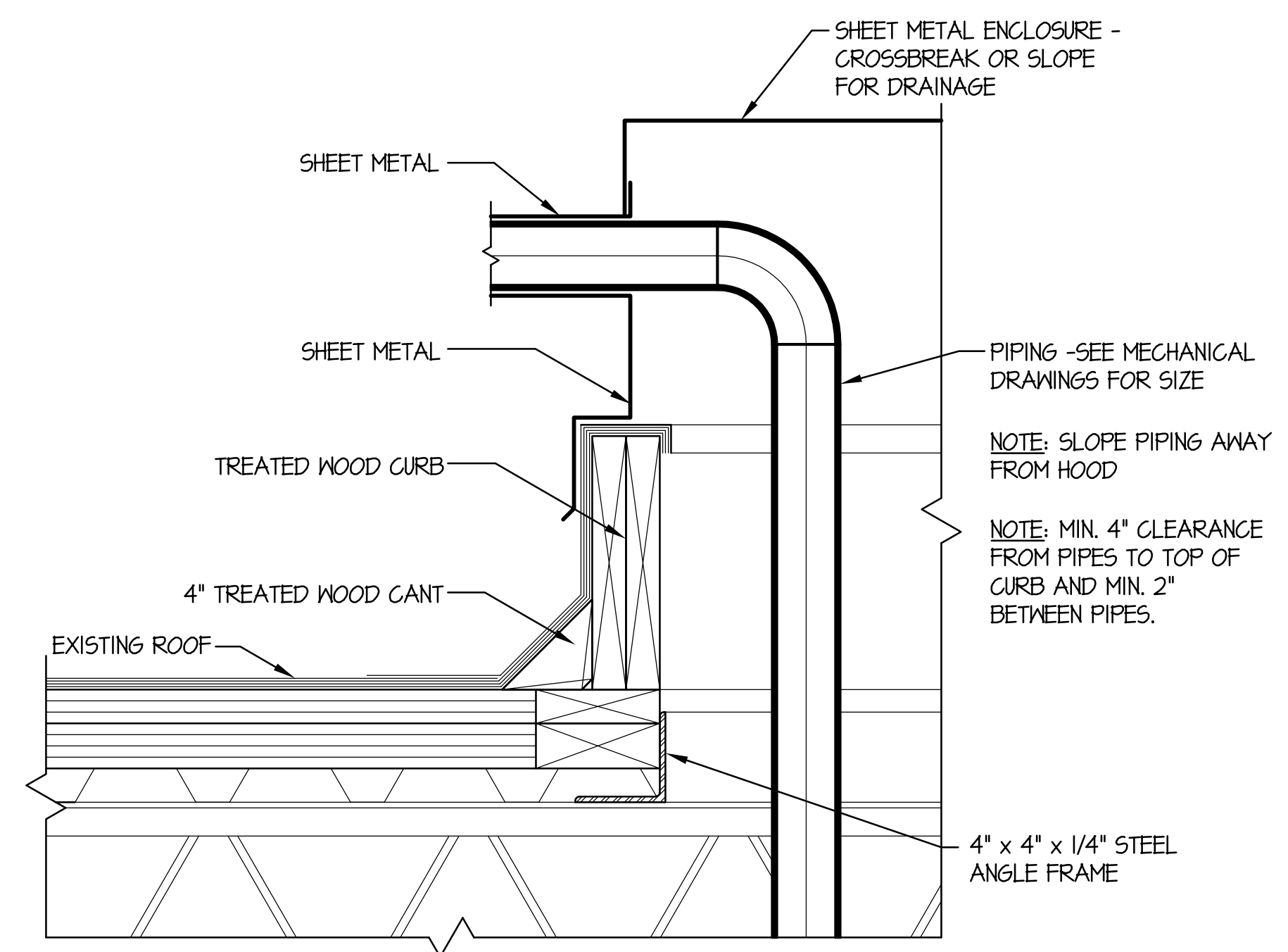
JEFFERSON LAB					RANCORN WILDMAN Architects, PLC	
USER CHECKED	DATE	DESIGNER	MINH	DATE		
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SME CHECKED		CHECKED	MWT			
FM&L APPROVED		APPROVED				

United States Department of Energy Newport News, VA

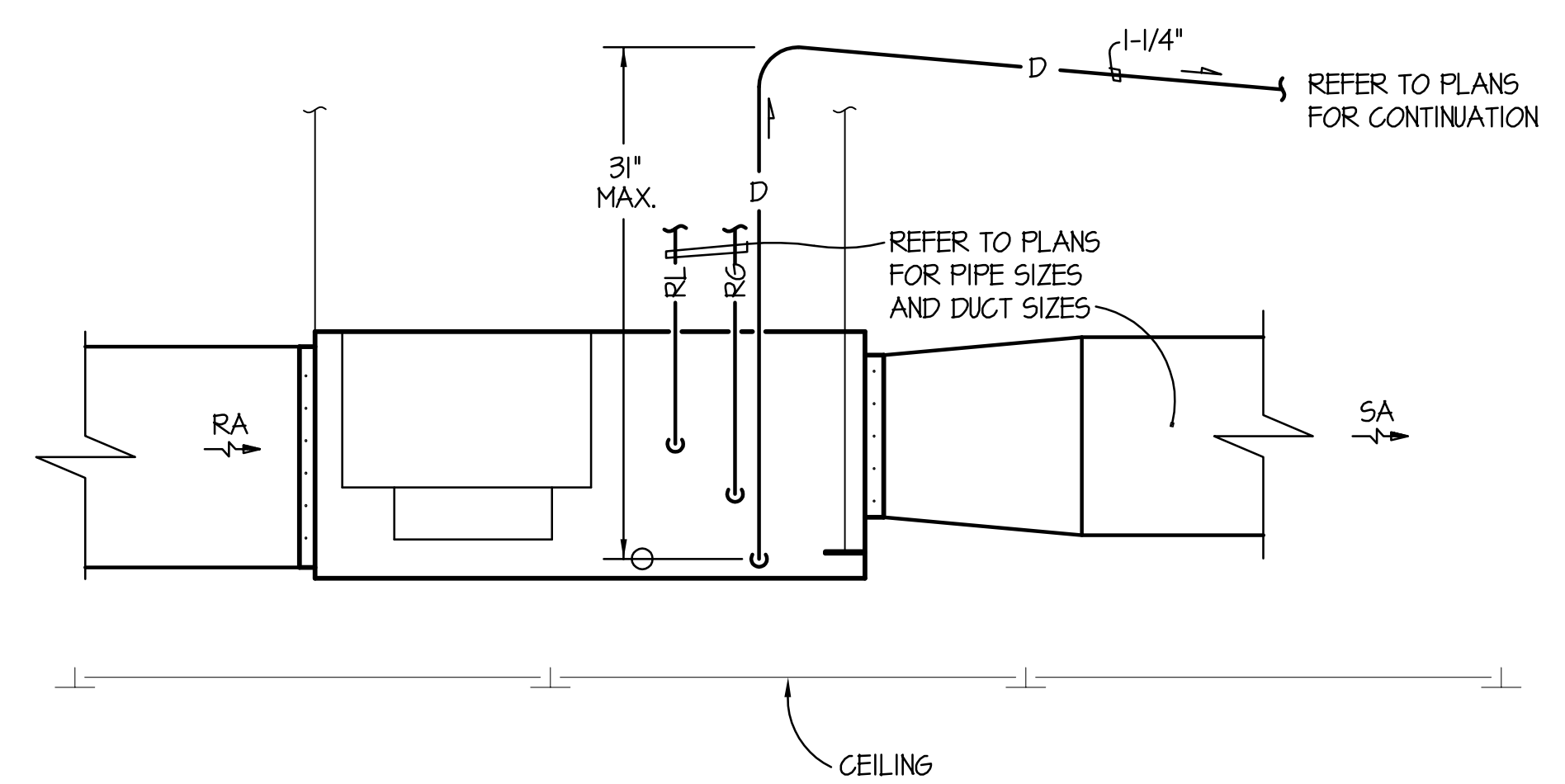


COUNTING HOUSE REN.
ENLARGED PLANS - MECHANICAL -
NEW WORK

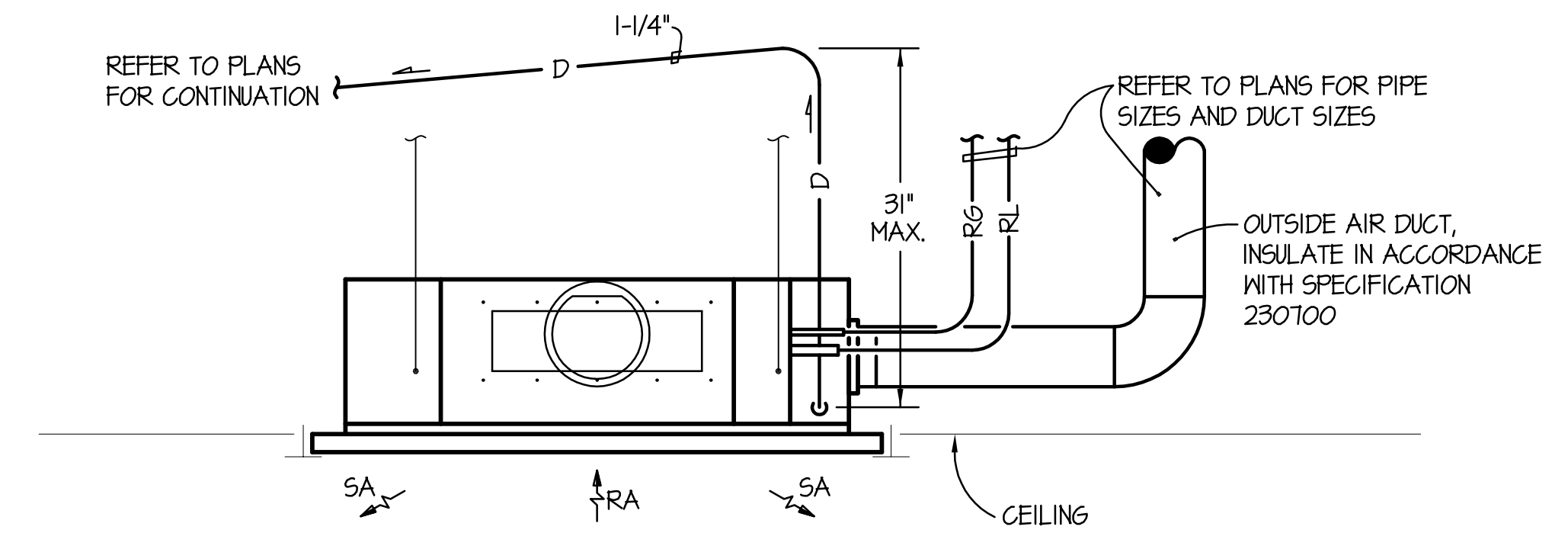
SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M2.5	



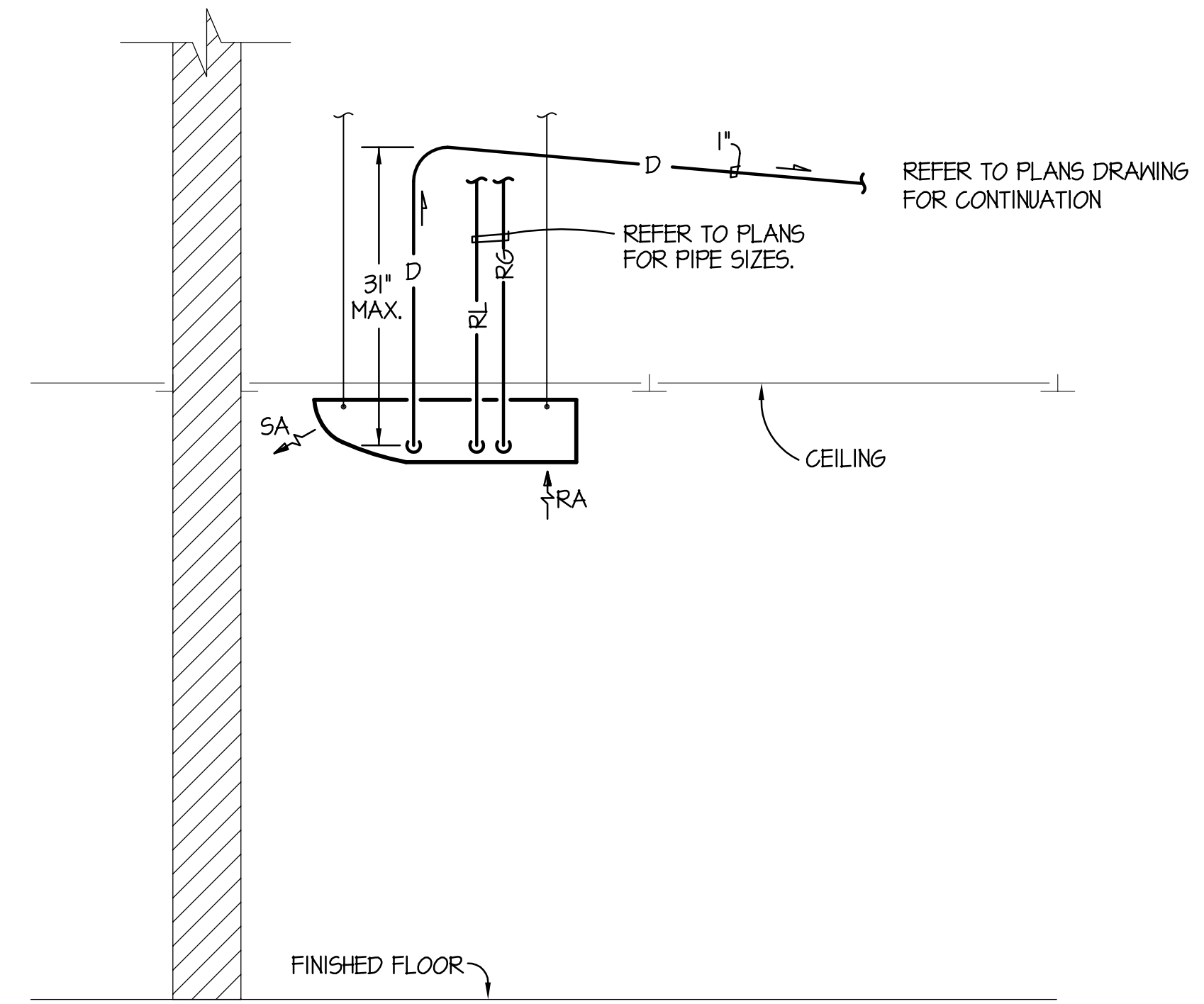
TYPICAL PIPING THROUGH ROOF
NOT TO SCALE



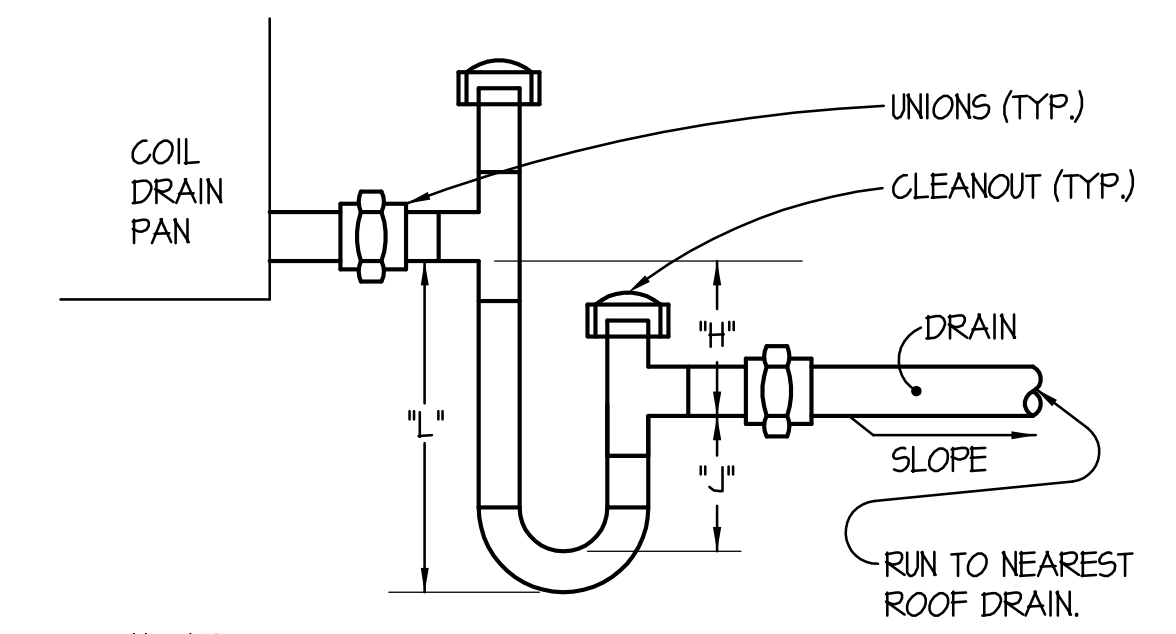
CONCEALED-DUCTED SPLIT SYSTEM DETAIL
NOT TO SCALE



CEILING RECESSED 4-WAY BLOW SPLIT SYSTEM DETAIL
NOT TO SCALE



CEILING SUSPENDED 1-WAY BLOW SPLIT SYSTEM DETAIL
NOT TO SCALE



COIL CONDENSATE TRAP DETAIL
NOT TO SCALE
(55-CH-1)

NOTES:
1. "H" = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1".
2. "J" = HALF OF H.
3. "L" = H + J + PIPE DIAMETER + INSULATION.
4. SIZE TRAP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

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SME CHECKED		CHECKED	MWT	
FM&L APPROVED		APPROVED		

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Thomas Jefferson National Accelerator Facility

COUNTING HOUSE REN.
MECHANICAL DETAILS

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M3.1	

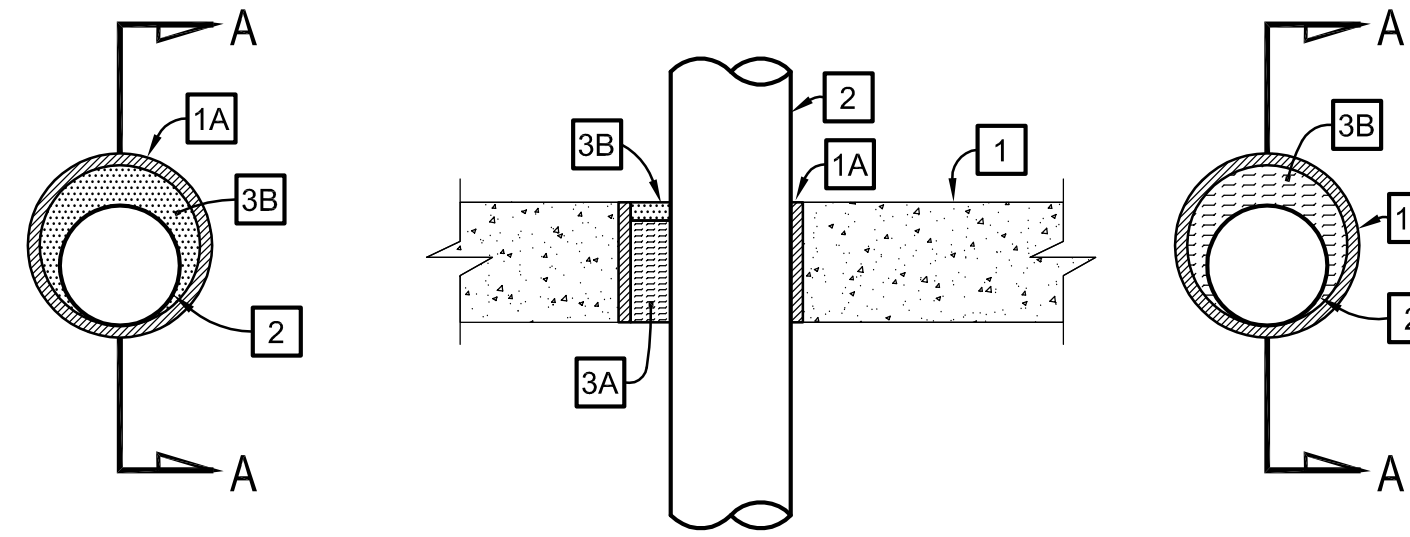
DESIGN BASED ON TREMCO, INC.
SYSTEM NO. C-AJ-1302
 AUGUST 2008
 F RATINGS - 2 AND 3 HR (SEE ITEM 3)
 T RATING - 0 HR
 (UL/CUL)



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 WILDMAN
 Architects
 PLC**

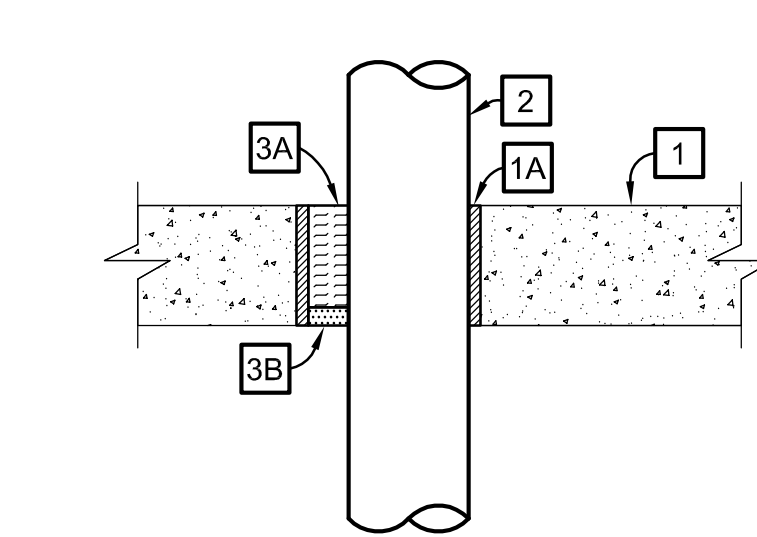
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UNINSULATED METALLIC PIPE FIRESTOP DETAIL



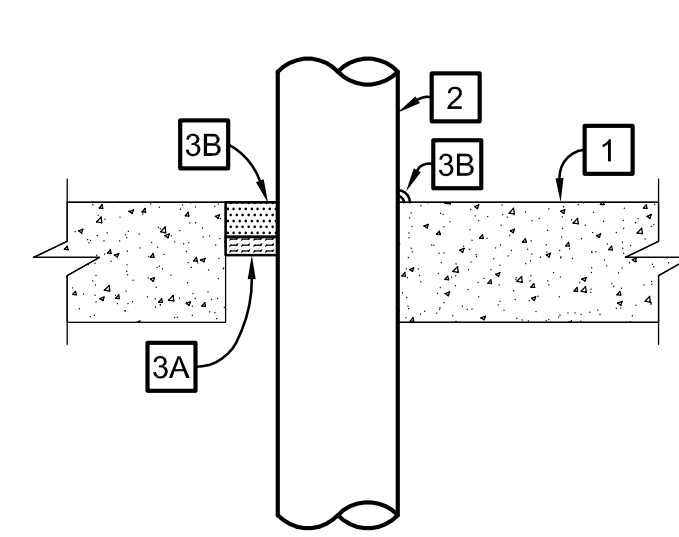
SECTION A-A

CONFIGURATION A



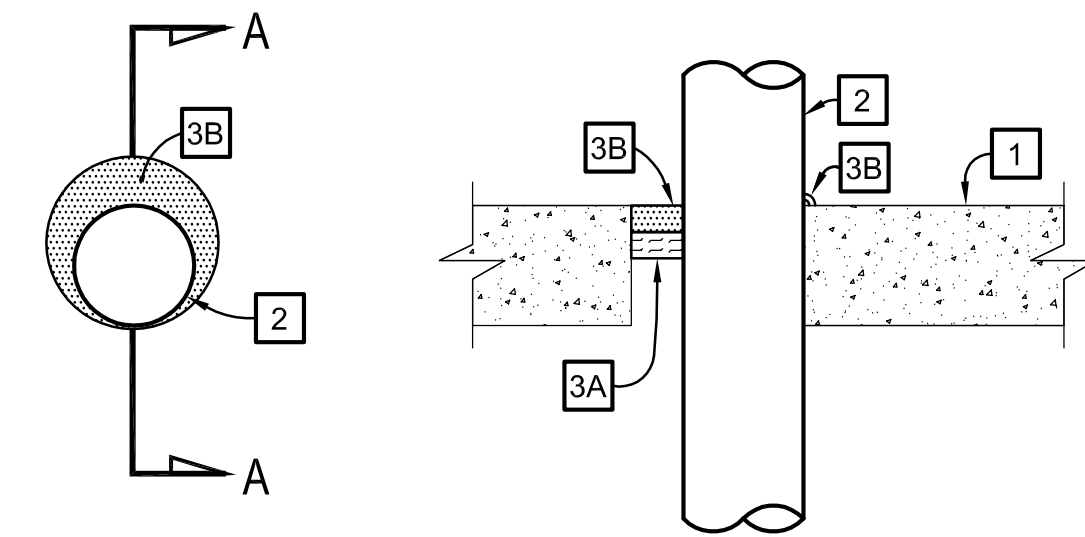
SECTION A-A

CONFIGURATION C



SECTION A-A

CONFIGURATION B



SECTION A-A

CONFIGURATION D

1 FLOOR OR WALL ASSEMBLY -- MIN 4-1/2 IN. THICK REINFORCED LIGHT-WEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. THE MIN THICKNESS OF THE WALL IS DEPENDENT UPON THE FIRESTOP CONFIGURATION AS SHOWN IN ITEM 3. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. IF THE FIRESTOP SYSTEM IS INSTALLED WITHIN A HOLLOW-CORE PRECAST CONCRETE UNIT, MAX DIAM OF OPENING SHALL BE 7 IN. OTHERWISE, MAX DIAM OF OPENING IS 15-1/4 IN.

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A METALLIC SLEEVE -- (OPTIONAL) --NOM 14 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES. AS AN OPTION, SLEEVE MAY EXTEND MAXIMUM 2" ABOVE TOP SURFACE OF FLOOR OR BEYOND ONE OR BOTH SURFACES OF WALL. THE USE OF THE STEEL SLEEVE IS DEPENDENT UPON THE FIRESTOP CONFIGURATION AS SHOWN IN ITEM 3.

2 THROUGH PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRIC ALLY OR ECCENTRIC ALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THROUGH PENETRANT AND THE FIRESTOP CONFIGURATION AS SHOWN IN ITEM 3. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A STEEL PIPE -- NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B IRON PIPE -- NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C CONDUIT -- NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.

D COPPER TUBING -- NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E COPPER PIPE -- NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3 FIRESTOP SYSTEM -- THE F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MIN THICKNESS OF THE WALL, TYPE AND MAX NOM DIAM OF THE THROUGH PENETRANT, MIN AND MAX ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM AND THE FIRESTOP CONFIGURATION AS SHOWN IN THE TABLE BELOW:

Min Thickness of Wall, In	Type of Through Penetrant	Max Nom Diam of through Penetrant In	Use of Steel Sleeve	Min, Max Annular In	Firestop Configuration	F Rating Hr
4-3/4	Steel Pipe & Iron Pipe	12	Optional	0,2	A	3
4-3/4	Steel Conduit, Copper Tube & Copper Pipe	6	Optional	0,2	A	3
4-3/4	Steel EMT	4	Optional	0,2	A	3
4-1/2	Steel Pipe & Iron Pipe	12	Not Applicable	0,2	B	2
4-1/2	Steel Conduit, Copper Tube & Copper Pipe	6	Not Applicable	0,2	B	2
4-1/2	Steel EMT	4	Not Applicable	0,2	B	2
5-1/4	Steel Pipe & Iron Pipe	8	Optional	0,2	C	3
5-1/4	Steel Conduit, Copper Tube, Copper Pipe & Steel EMT	4	Optional	0,2	C	3
4-1/2	Steel Pipe & Iron Pipe	8	Not Applicable	0,7/8	D	2
4-1/2	Steel Conduit, Copper Tube, Copper Pipe & Steel EMT	4	Not Applicable	0,7/8	D	2

THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

CONFIGURATION A

A. PACKING MATERIAL -- MIN 4-1/4 IN THICKNESS OF 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR TOP END OF SLEEVE OR FROM BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS OR ENDS OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL * -- CAULK -- MIN 1/4 IN. OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR TOP END OF SLEEVE OR WITH BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS OR ENDS OF SLEEVE.

TREMCO - TREMstop Intumescent Acrylic, TREMstop 1A+, or Fyre Cault

CONFIGURATION B

A. PACKING MATERIAL -- FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL * -- CAULK -- MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS. A MIN 1/4 IN. BEAD OF FILL MATERIAL SHALL BE APPLIED AT POINT CONTACT LOCATION ON TOP SURFACE OF FLOOR AND BOTH SURFACES OF WALL OR HOLLOW-CORE PRECAST CONCRETE UNITS.

TREMCO - TREMstop Intumescent Acrylic, TREMstop 1A+, or Fyre Caulk

CONFIGURATION C

A. PACKING MATERIAL -- MIN 3-3/4 IN. THICKNESS OF 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL SHALL BE RECESSED 3/4 IN. FROM BOTTOM OF FLOOR OR BOTH SURFACES OF WALL OR ENDS OF SLEEVE, TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL AT BOTTOM OF FLOOR.

B. FILL, VOID OR CAVITY MATERIAL * -- CAULK -- MIN 3/4 IN. OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL or ends of sleeve.

TREMCO - TREMstop Intumescent Acrylic, TREMstop 1A+, or Fyre Caulk

CONFIGURATION D

A. PACKING MATERIAL -- FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL * -- CAULK -- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNITS. A MIN 1/4 IN. BEAD OF FILL MATERIAL SHALL BE APPLIED AT POINT CONTACT LOCATION ON TOP SURFACE OF FLOOR AND BOTH SURFACES OF WALL OR HOLLOW-CORE PRECAST CONCRETE UNITS.

TREMCO - TREMstop Intumescent Acrylic, TREMstop 1A+ or Fyre Caulk

NOTE: FOR ANY CONFIGURATION WHERE FYRE CAULK IS USED, THE MAXIMUM F RATION IS 2 HOUR.

* BEARING THE UL CLASSIFICATION MARK

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SME CHECKED		CHECKED	MWT	
FM&L APPROVED		APPROVED		

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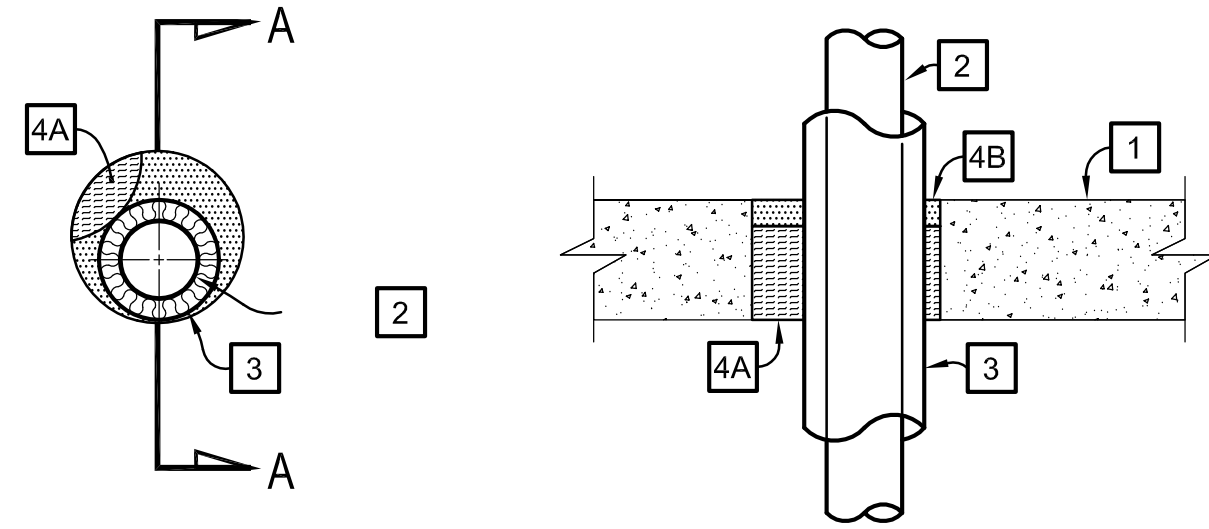


COUNTING HOUSE REN.
 FIRE STOP DETAILS

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M3.2	

DESIGN BASED ON TREMCO, INC.
SYSTEM NO. C-AJ-5121
 AUGUST 2008
 F RATINGS - 2 AND 3 HR (SEE ITEM 1B)
 T RATING - 1, 1-1/4 AND 1-1/2 HR (SEE ITEM 1A AND 4B)
 (UL/CUL)

INSULATED METALLIC PIPE FIRESTOP DETAIL



SECTION A-A

1 FLOOR OR WALL ASSEMBLY -- MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. IF THE FIRESTOP SYSTEM IS INSTALLED WITHIN A HOLLOW-CORE PRECAST CONCRETE UNIT, MAX. DIAM OF OPENING SHALL BE 7 IN. OTHERWISE, SEE TABLE UNDER ITEM 4B FOR MAX DIAM OF OPENING.

1A SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

METALLIC SLEEVE - (OPTIONAL, NOT SHOWN) - CYLINDRICAL SLEEVE FABRICATED FROM MIN NO. 30 GAUGE (0.016 IN. OR 0.4 MM) GALV SHEET STEEL AND HAVING A MIN. 2" IN. (51 MM) LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF SLEEVE TO BE EQUAL TO THE THICKNESS OF THE FLOOR OR WALL. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUT OUTS IN THE FLOOR OR WALL. SLEEVE ALSO MAY BE CONSTRUCTED OF NOMINAL 18 IN. DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL. THE ENDS OF THE STEEL SLEEVE SHALL BE FLUSH WITH EACH SURFACE OF THE FLOOR OR WALL. WHEN SLEEVE IS USED, T RATING OF FIRESTOP SYSTEM IS 1 HR.

2 THROUGH PENETRANTS -- ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRIC ALLY OR ECCENTRIC ALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. SEE TABLE UNDER ITEM 4B FOR MAX SIZES OF PIPES THAT MAY BE USED. THE FOLLOWING TYPES OF METALLIC PIPES OR TUBING MAY BE USED:

- A** STEEL PIPE -- SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B** IRON PIPE -- CAST OR DUCTILE IRON PIPE.
- C** COPPER TUBING -- TYPE L (OR HEAVIER) COPPER TUBING.
- D** COPPER PIPE -- REGULAR (OR HEAVIER) COPPER PIPE.

3 PIPE COVERING* -- NOM 1, 2 OR 3 IN. THICK (SEE TABLE UNDER ITEM 4B) HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. SEE TABLE UNDER ITEM 4B FOR ANNULAR SPACE REQUIRED WITHIN THE FIRESTOP SYSTEM.

SEE PIPE AND EQUIPMENT COVERING -- MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

4 FIRESTOP SYSTEM -- THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

- A** PACKING MATERIAL -- MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING, TO THE MIN THICKNESS SPECIFIED IN THE TABLE UNDER ITEM 4B, AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNIT AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- B** FILL, VOID OR CAVITY MATERIAL* -- CAULK -- FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL AND HOLLOW-CORE PRECAST CONCRETE UNIT. MIN THICKNESS OF FILL MATERIAL SPECIFIED IN TABLE BELOW.

TREMCO - TREMstop Intumescent Acrylic, TREMstop 1A+ OR Fyre Caulk

NOTE: WHEN FYRE CAULK IS USED, THE F RATING IS LIMITED TO 2 HR.

R Rating Hr	T Rating Hr	Max Pipe Diam, In.		Pipe Covering Thick, In.	Packing Material Thick, In.	Max Open Diam, In.	Fill Mtl Thick In.	Annular space, In.
		Copper	Steel, Iron					
2	1	4	6	1	4	8-5/8	1/2	1/2 to 1-3/8
3	1-1/2	4	6	2	3-1/2	10-5/8	1	1/2 to 1-3/8
2	1	6	8	3	3-1/2	18-3/4	1	1-3/4 to 2

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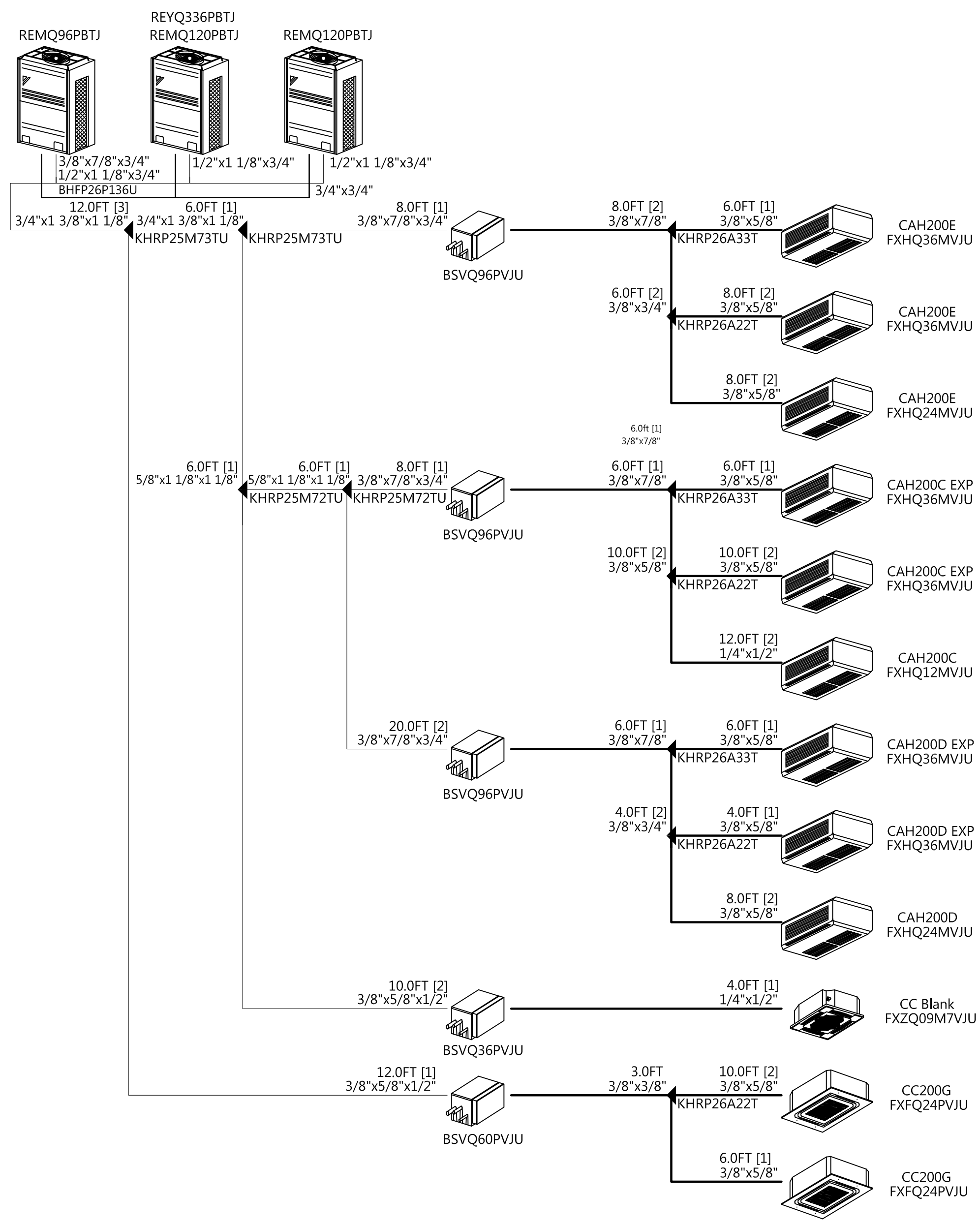
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JEFFERSON LAB		RANCORN WILDMAN Architects, PLC		
USER CHECKED	DATE	DESIGNER	MINH	DATE
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SME CHECKED		CHECKED	MWT	
FM&L APPROVED		APPROVED		

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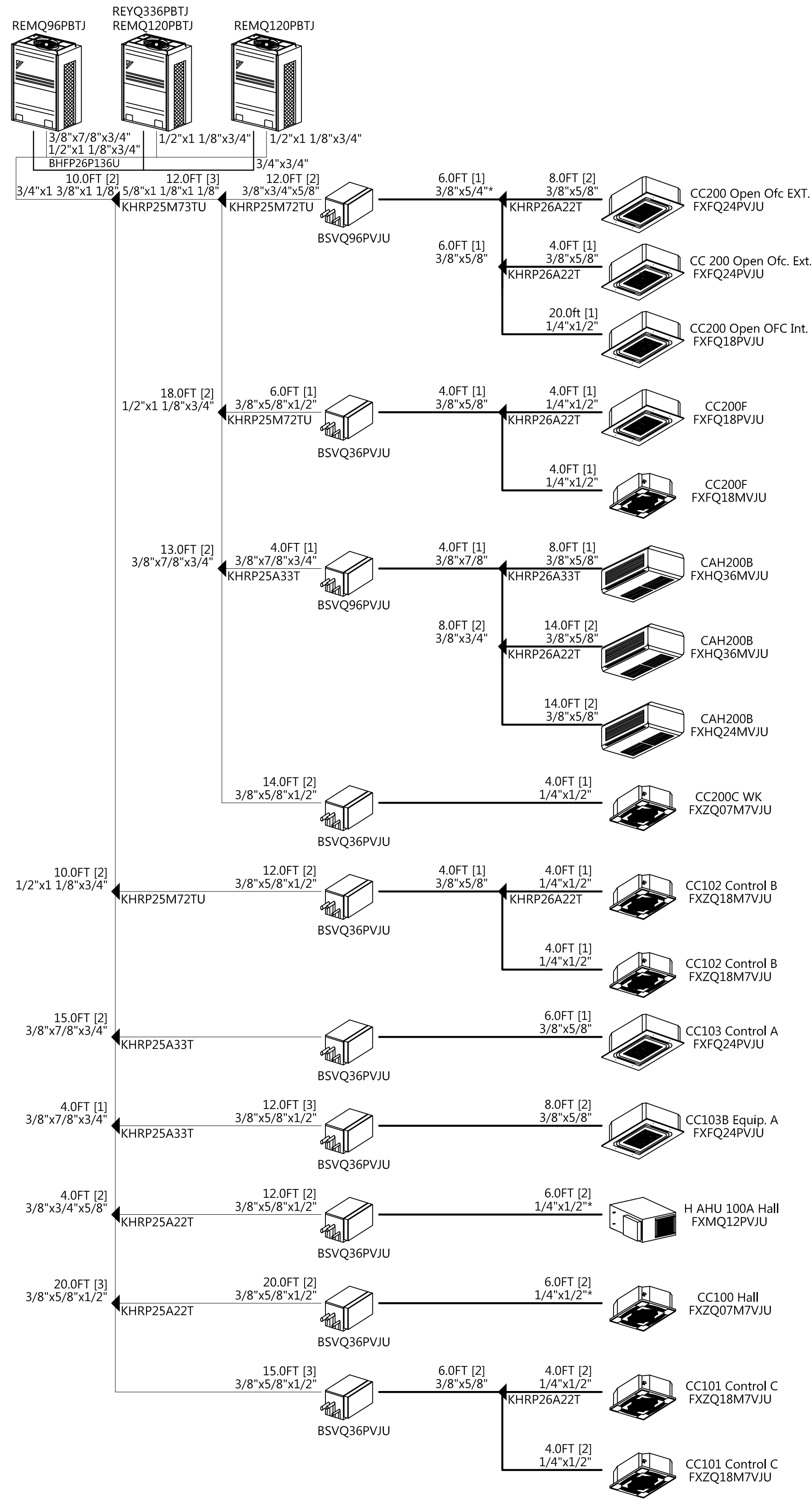
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 Thomas Jefferson National Accelerator Facility

COUNTING HOUSE REN.
 FIRE STOP DETAILS

SCALE	DRAWING NUMBER	SHEET	REV
NTS		M3.3	



VRF-CH-1 SYSTEM PIPING SCHEMATIC -
ADD ALTERNATE NO. 5
 NOT TO SCALE



VRF-CH-2 SYSTEM PIPING SCHEMATIC -
ADD ALTERNATE NO. 5
 NOT TO SCALE



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ESH&Q CHECKED		DRAWN	MAC	
SME CHECKED		CHECKED	MWT	
FM&L APPROVED		APPROVED		






































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COUNTING HOUSE REN.
 VRF SYSTEM PIPING SCHEMATIC - ADD ALTERNATE
 NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		M3.4	

ELECTRICAL LEGEND

-  RECESSED LIGHTING FIXTURE.
-  EXIT LIGHTING FIXTURE, PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADING INDICATES NUMBER OF FACES LIT.
-  2' X 4' FLUORESCENT LIGHTING FIXTURE.
-  1' X 4' FLUORESCENT LIGHTING FIXTURE.
-  EXISTING TRACK LIGHTING SYSTEM
-  EMERGENCY LIGHTING FIXTURE WITH BATTERY BACKUP
-  WALL MOUNTED LIGHTING FIXTURE, HEIGHT AS NOTED.
- S SINGLE-POLE SWITCH, 20A, 120/277V, A.C., MOUNT +42" A.F.F., U.O.N.
- Ss THREE-WAY SWITCH, MOUNT +42" A.F.F., U.O.N.
- SMP WALL SWITCH OCCUPANCY SENSOR; SENSOR SWITCH CAT. #MSD-PDT-5A, OR APPROVED EQUAL.
- SdL SINGLE POLE, 20-AMP, 0-10 VOLT FLUORESCENT DIMMER SWITCH, SYNERGY CAT. #15DBC120/277WH
- Sd EXISTING DIMMER SWITCH
-  PROVIDE LINE VOLTAGE OCCUPANCY SENSOR; SENSOR SWITCH CATALOG #CMR-PDT-10, OR APPROVED EQUAL. MOUNT ON CEILING WHERE INDICATED ON PLANS.
-  LIGHTING FIXTURE TYPE INDICATOR
-  ROOM NUMBER INDICATOR
-  DUPLEX RECEPTACLE, 20A, 120V, MOUNT +18" TO A.F.F. TOP OF RECEPTACLE, U.O.N. IF CENTER SHADED, MOUNT +6" ABOVE SINK, COUNTER TOP OR BACKSPLASH. "GFI" WHEN USED INDICATES GROUND FAULT INTERRUPTER. "WP" WHEN USED INDICATES WEATHERPROOF WHILE IN USE. SUBSCRIPT "4" INDICATES TWO DUPLEX RECEPTACLES IN A TWO GANG BOX.
-  120V, "GFI" TYPE DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEHIND THE ENCLOSURE.
-  PANELBOARD, 208Y/120 VOLT
-  PANELBOARD, 480Y/277 VOLT
-  EXISTING SWITCHBOARD
-  ELECTRICAL CONNECTION TO MOTOR STARTER
-  ELECTRICAL CONNECTION TO EQUIPMENT
-  JUNCTION BOX
-  EXISTING EMERGENCY SHUT-OFF PUSH BUTTON STATION
-  DRY TYPE TRANSFORMER
-  DISCONNECT SWITCH, 480V, U.O.N.: 3P = NUMBER OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NONFUSED). PROVIDE IN NEMA 1 ENCLOSURE IF INSTALLED INDOORS AND IN NEMA 3R ENCLOSURE STAINLESS STEEL IF INSTALLED OUT OF DOORS
-  CONSTRUCTION NOTE INDICATOR
-  DEMOLITION NOTE INDICATOR
-  BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2#12 CONDUCTORS & #12 GND IN 1/2" CONDUIT U.O.N. TICK MARKS, WHEN SHOWN, INDICATE NUMBER OF CONDUCTORS IF OTHER THAN THREE: (T) INDICATES GROUNDING CONDUCTOR. REFER TO PANEL SCHEDULES FOR EXACT CONDUCTOR SIZES.
-  HOMERUNS TO PANEL. PANEL & CIRCUIT DESIGNATIONS AS INDICATED.
-  CONDUIT RUN CONCEALED ABOVE CEILING, IN WALL, BELOW FLOOR SLAB OR UNDERGROUND.
-  VISUAL FIRE ALARM DEVICE, MOUNT 6'-8" A.F.F. SUBSCRIPT "15" INDICATES CANDELA LEVEL. SUBSCRIPT "M" WHEN USED INDICATES DEVICE IN A SURFACE METAL OUTLET BOX.
-  FIRE ALARM SMOKE DETECTOR, SURFACE MOUNTED ON CEILING.
-  FIRE ALARM HEAT DETECTOR, SURFACE MOUNTED ON CEILING.
-  VISUAL FIRE ALARM DEVICE, MOUNT 6'-8" A.F.F. SUBSCRIPT "15" INDICATES CANDELA LEVEL.
-  EXISTING FIRE ALARM BELL/VISUAL DEVICE
-  FIRE ALARM PULL STATION, MOUNT +42" A.F.F.
-  REMOTE FIRE ALARM NOTIFICATION STATION
-  FIRE ALARM DUCT SMOKE DETECTOR
-  EXISTING COMMUNICATION OUTLET.
-  NEW COMMUNICATION OUTLET WITH COVERPLATE. PROVIDE SINGLE GANG OUTLET BOX WITH 1" CONDUIT AND BUSHINGS. TERMINATE CONDUIT 6" ABOVE LAY-IN TILE CEILING, U.O.N. SUBSCRIPT "4" INDICATES NUMBER OF COMMUNICATION CABLE HOMERUNS TO BE PROVIDED BY OWNER. COORDINATE THIS WORK WITH THE OWNER. MOUNT OUTLET +18" A.F.F., U.O.N.
-  EXISTING TELEPHONE OUTLET.

ABBREVIATIONS

- A AMPERE
- AC ALTERNATING CURRENT
- ACC AIR COOLED CHILLER
- A.F.F. ABOVE FINISHED FLOOR
- A.F.G. ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- BKR BREAKER
- C CONDUIT
- CH COUNTING HOUSE
- CKT CIRCUIT
- CRAC COMPUTER ROOM AIR CONDITIONING
- CU CONDENSING UNIT
- CU-CH CONDENSING UNIT DESIGNATION
- E.C. EMPTY CONDUIT
- EUH ELECTRIC UNIT HEATER
- GFI GROUND FAULT INTERRUPTER
- GND. GROUND
- HUM HUMIDIFIER
- IU INDOOR UNIT
- IU-A VRF INDOOR UNIT DESIGNATION
- KAIC KILO AMPERE INTERRUPTING CAPACITY
- LED LIGHT EMITTING DIODE
- M.C.B. MAIN CIRCUIT BREAKER
- M.L.O. MAIN LUGS ONLY
- MTD. MOUNTED
- N.E.C. NATIONAL ELECTRICAL CODE
- NO NUMBER
- OU OUTDOOR UNIT
- OU-CH VRF OUTDOOR UNIT DESIGNATION
- PNL PANEL
- RTU ROOF TOP UNIT
- RECEPT. RECEPTACLE
- SCU-CH CONDENSING UNIT DESIGNATION FOR 100% OUTSIDE AIR UNIT
- SS-CH 100% OUTDOOR AIR INDOOR UNIT DESIGNATION
- TYP. TYPICAL
- UH UNIT HEATER
- U.O.N. UNLESS OTHERWISE NOTED
- V VOLT
- VRF VARIABLE REFRIGERANT FLOW
- WP WEATHERPROOF
- XFMR TRANSFORMER
- Y NYE

△ LIGHT FIXTURE SCHEDULE					
SYM	MANUFACTURER'S CATALOG No.	VOLT	LAMPS	MOUNTING	REMARKS
1	LITHONIA VAP59LEDASY	120/277	59WLED/4100K	PENDANT	SEET NOTE 2,3
2	LITHONIA VAP59LEDASY	120/277	59WLED/4100K	SURFACE	SEET NOTE 3
3	LITHONIA 2VLT448LADPLP840	120/277	47LED/4000K	RECESSED	
4	LITHONIA 2VLT448LADPLP840	120/277	47LED/4000K	RECESSED	SEET NOTE 3
5	OMEGA OM6LED2727R6LED40KWDCS	120/277	27LED/4000K	RECESSED	
6	CAPRI CFR6V18QUPSH17P	120/277	(2) CFQ18W/G24Q	RECESSED	
7	MCPHILBEN 55L112/27R	120/277	LED	CEILING	SEET NOTE 1
8	MCPHILBEN 55L212/27R	120/277	LED	CEILING	SEET NOTE 1
9	MCPHILBEN CCTXL1RWH	120/277	LED	WALL	SEET NOTE 4
10	MCPHILBEN CT6N	120/277	WITH FIXTURE	WALL	SEET NOTE 5
11	LITHONIA 2VLT448LADPLP840	120/277	LED	WALL	SEET NOTE 6

LIGHTING FIXTURE SCHEDULE NOTES:

- GENERAL:**
MATCH MOUNTING HARDWARE AND FRAME WITH THE CEILING TYPE OR CONSTRUCTION IN WHICH FIXTURE IS TO BE INSTALLED, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- SPECIFIC:**
- PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADING INDICATES NUMBER OF FACES LIT.
 - PENDANT MOUNT 9'-0" ABOVE FINISHED FLOOR, U.O.N.
 - CONNECT LIGHTING FIXTURE FOR ON/OFF CONTROL OPTION (NO DIMMING).
 - REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
 - WALL MOUNT 7'-0" A.F.F.
 - WALL MOUNT 6'-0" A.F.F. FIELD VERIFY LOCATION WITH ARCHITECT.

GENERAL NOTES:

- COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INCLUDING EXACT POINT OF ELECTRICAL CONNECTION. MAKE ADJUSTMENTS TO CONDUIT ROUTING, PLACEMENT OF DISCONNECTS AND STARTERS AS REQUIRED.
- ELECTRICAL EQUIPMENT INSTALLED OUT OF DOORS SHALL BE NEMA RATED FOR THE APPLICATION.
- ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX UNLESS OTHERWISE NOTED.
- IN AREAS WHERE NO OTHER TRADES ARE INVOLVED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING CEILING TILES AS REQUIRED TO INSTALL NEW CONDUIT AND BRANCH CIRCUITRY. REINSTALL EXISTING CEILING TILES AFTER COMPLETION OF WORK. REPLACE ANY AND ALL CEILING TILES DAMAGED DURING THIS PROJECT WITH NEW TILES TO MATCH EXISTING TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- BEFORE BEGINNING ANY WORK, VERIFY THE WORKING CONDITION OF ALL EXISTING ITEMS THAT ARE SCHEDULED FOR REMOVAL AND REINSTALLATION. NOTIFY THE OWNER IN WRITING OF ANY EXISTING DEFECTIVE MATERIAL OR EQUIPMENT. AFTER THE REINSTALLATION OF ALL MATERIAL AND EQUIPMENT BY THIS PROJECT, RE-VERIFY ITS WORKING CONDITION. REPLACE ANY MATERIAL OR EQUIPMENT FOUND DEFECTIVE, WHICH WAS NOT DEFECTIVE PRIOR TO REMOVAL AT NO COST TO THE OWNER.
- VERIFY ALL CIRCUITS SAVED DURING DEMOLITION FOR REUSE AS TO WIRE SIZE AND POINT OF ORIGIN.
- DEMOLITION WORK IS BASED ON A REVIEW OF EXISTING BUILDING DRAWINGS AND NON-INVASIVE FIELD INVESTIGATION. MAKE NECESSARY ADJUSTMENTS TO THE WORK TO MEET THE INTENT OF THE PROJECT WHEN HIDDEN SITE CONDITIONS ARE ENCOUNTERED REFLECTING DIFFERENT CONDITIONS THAN INDICATED ON DRAWINGS.



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ELECTRICAL LEGEND, SCHEDULE AND ABBREVIATIONS

SCALE	DRAWING NUMBER	SHEET	REV
NTS		E01	

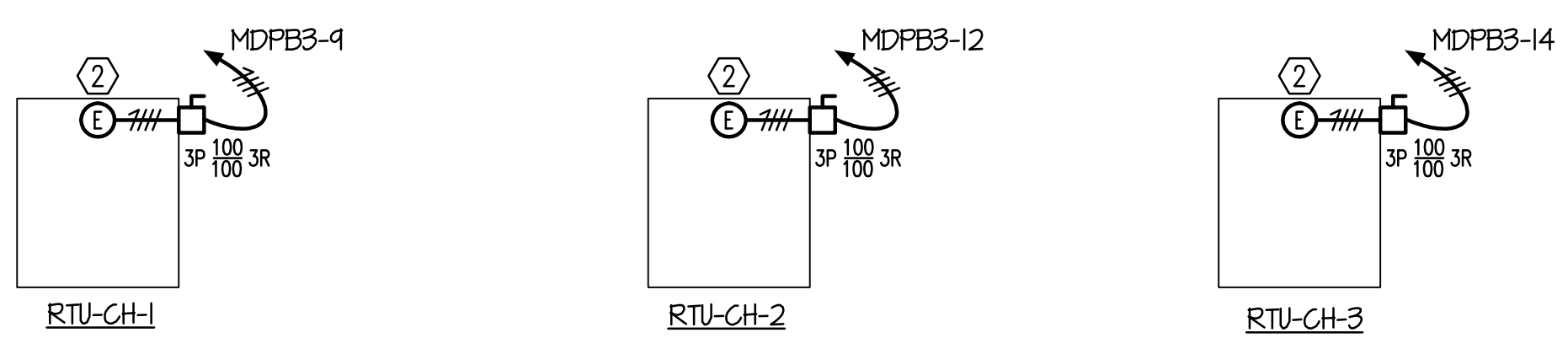
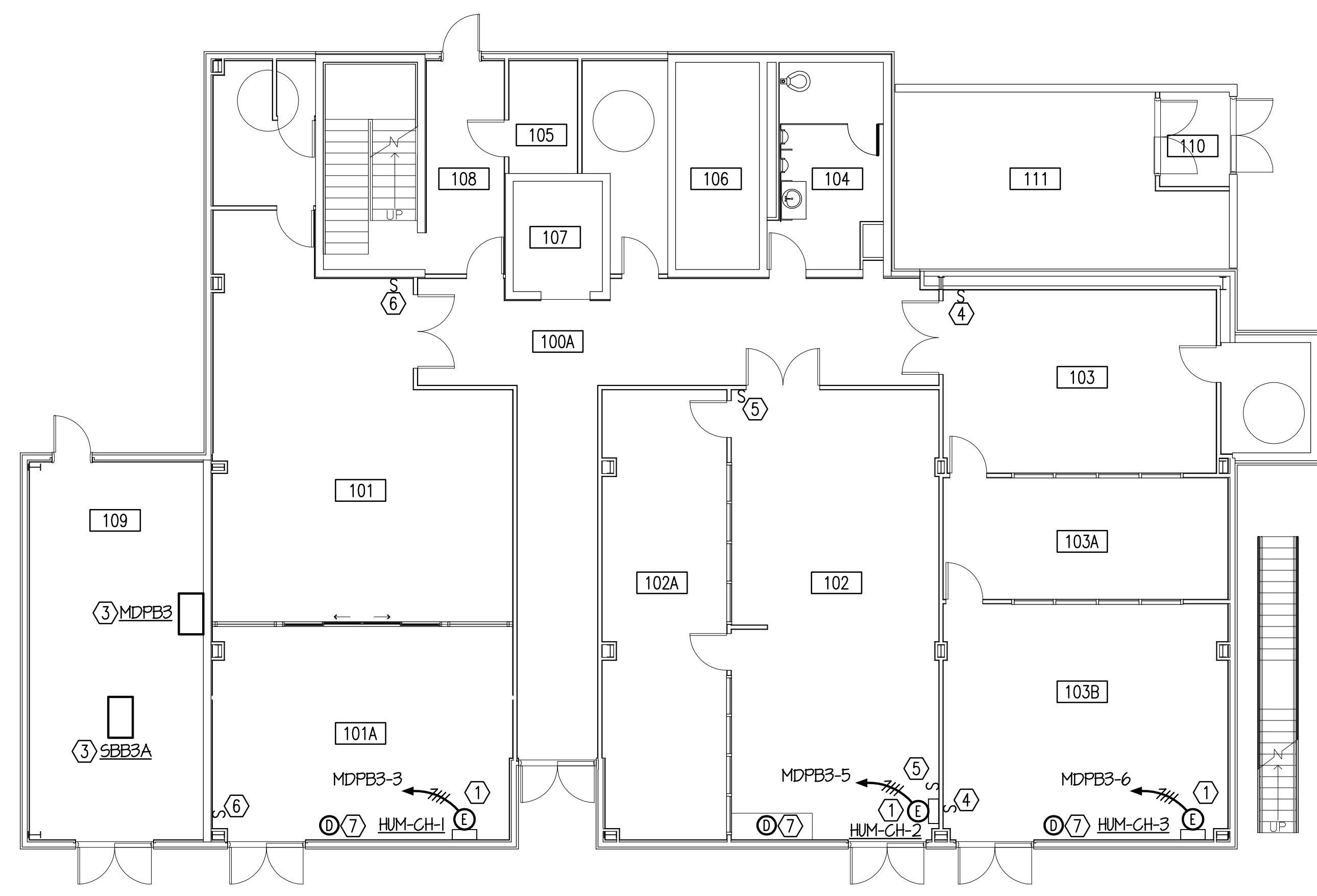
1 2 3 4 5 6

A

B

C

D



FIRST FLOOR PLAN - DEMOLITION - BASE BID

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

DEMOLITION NOTES: (THIS SHEET ONLY)

- ① REMOVE ELECTRICAL CONNECTION TO HUMIDIFIER CONTROL PANEL. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO SWITCHBOARD "MDPB3".
- ② REMOVE ELECTRICAL CONNECTION TO "RTU". REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO SWITCHBOARD "MDPB3".
- ③ EXISTING SWITCHBOARD TO REMAIN.
- ④ SINGLE POLE EMERGENCY SHUT-OFF SWITCH FOR "RTU-GH-3" TO REMAIN FOR REUSE. SAVE CONDUIT AND CONTROL CONDUCTORS FOR REUSE.
- ⑤ SINGLE POLE EMERGENCY SHUT-OFF SWITCH FOR "RTU-GH-2" TO REMAIN FOR REUSE. SAVE CONDUIT AND CONTROL CONDUCTORS FOR REUSE.
- ⑥ SINGLE POLE EMERGENCY SHUT-OFF SWITCH FOR "RTU-GH-1" TO REMAIN FOR REUSE. SAVE CONDUIT AND CONTROL CONDUCTORS FOR REUSE.
- ⑦ REMOVE FIRE ALARM DUCT SMOKE DETECTOR WITH SAMPLING TUBES LOCATED IN RAISED FLOOR SYSTEM AND SAVE FOR REUSE. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO POINT OF ORIGIN.

1 2 3 4 5 6



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FIRST FLOOR PLAN - DEMOLITION - BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
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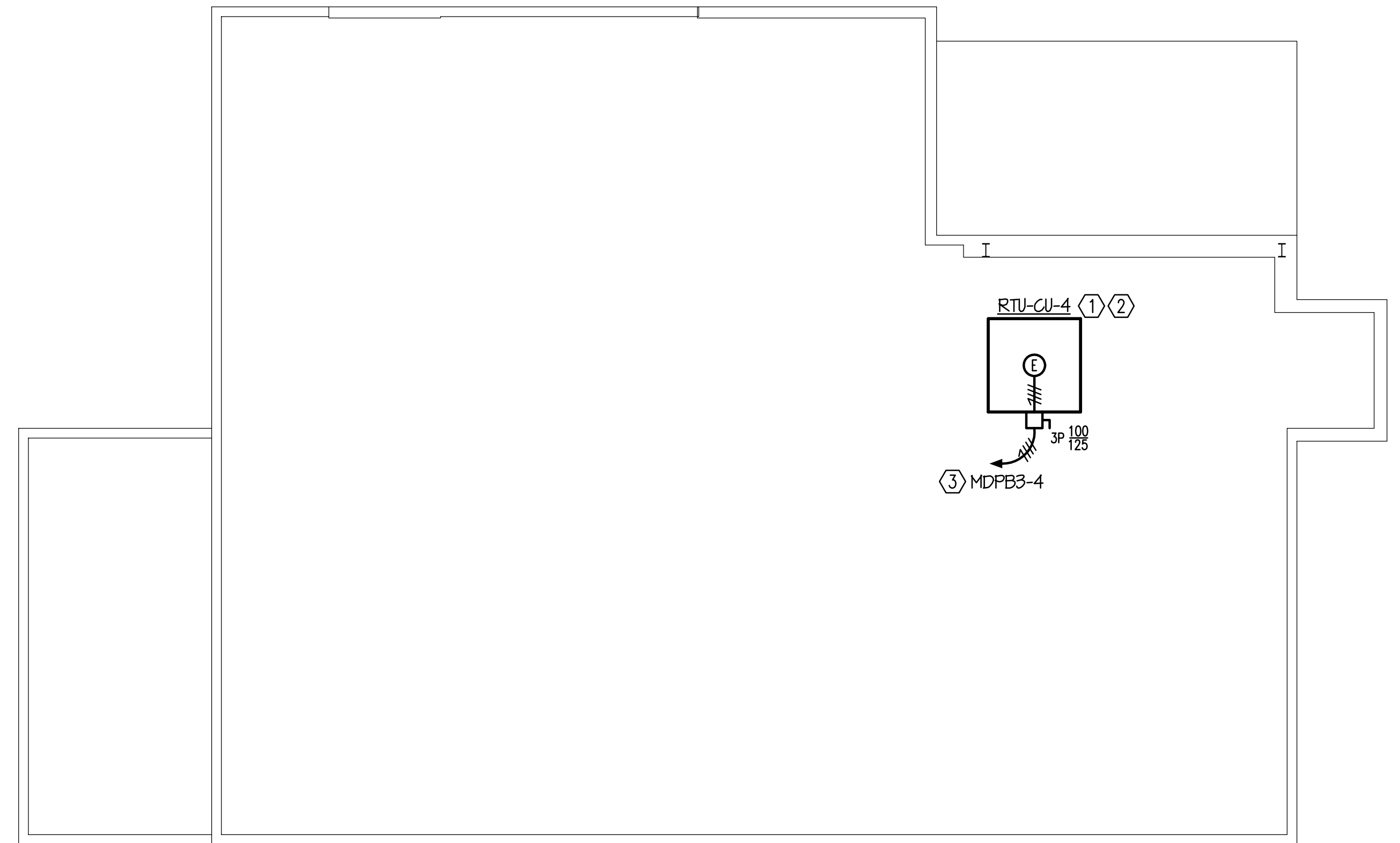
1 2 3 4 5 6

A

B

C

D



ROOF PLAN - DEMOLITION - BASE BID

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

DEMOLITION NOTES (THIS SHEET ONLY)

- ① REMOVE ELECTRICAL CONNECTION TO "RTU". REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO SWITCHBOARD "MDPB3". REMOVE LIGHTNING PROTECTION AIR TERMINAL. SAVE UPSTREAM AND DOWNSTREAM LIGHTNING PROTECTION COPPER GROUND CONDUCTOR FOR REUSE.
- ② MAINTAIN CONTINUITY OF THE EXISTING LIGHTNING PROTECTION SYSTEM BY PROVIDING A BARE COPPER CONDUCTOR (#32 STRANDS OF 17 GAUGE, 7/16" DIAMETER, BRAIDED SMOOTH TWIST, 65,000 CIRCULAR MILS), TWO PARALLEL CLAMPS AND CONNECT TO EXISTING COPPER CONDUCTOR SAVED BY DEMOLITION NOTE #1.
- ③ REFER TO DRAWING SHEET E1.1 FOR LOCATION OF SWITCHBOARD "MDPB3".



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ROOF PLAN - DEMOLITION - BASE BID

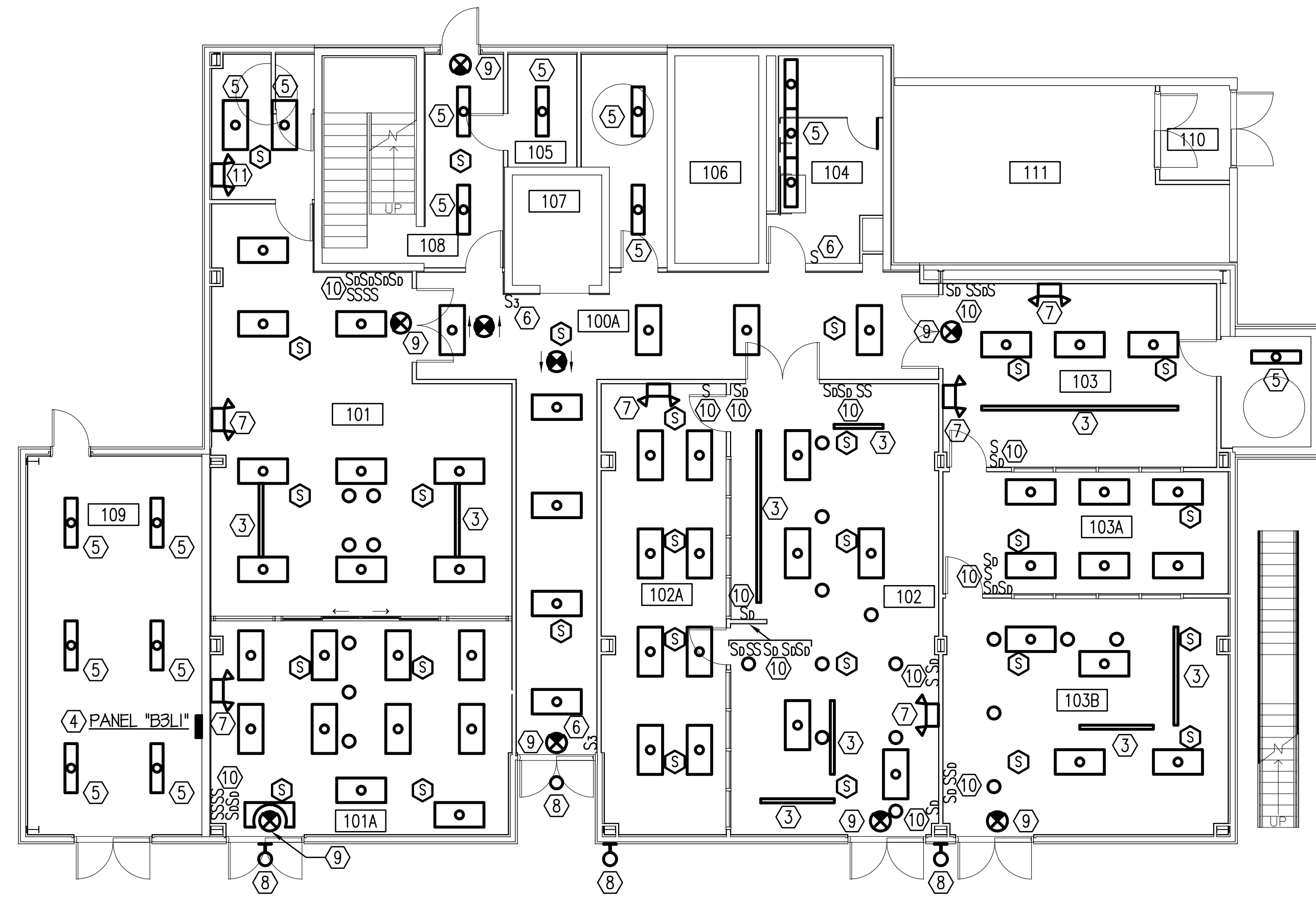
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1/8" = 1'-0"		E1.2	

1 2 3 4 5 6



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FIRST FLOOR PLAN - DEMOLITION - ADD ALTERNATE NO.1 ① ②

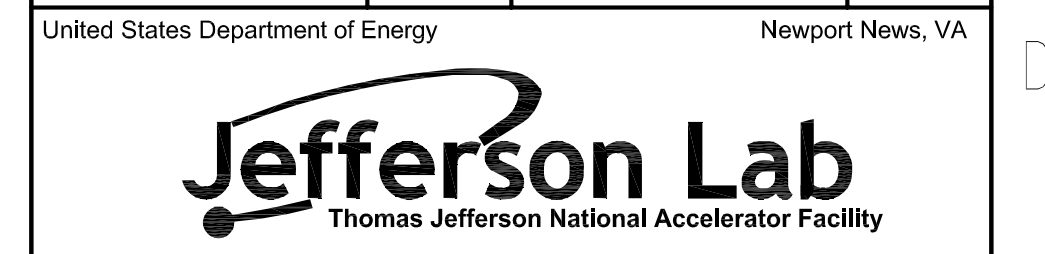
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES: (THIS SHEET ONLY)

- ① REMOVE ALL LIGHTING FIXTURES INDICATED ON THE ABOVE FLOOR PLAN, U.O.N. REMOVE ALL BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NOT OTHER DEVICE EXIST.
- ② REMOVE ALL CEILING MOUNTED FIRE ALARM SMOKE DETECTORS INDICATED ON THE ABOVE FLOOR PLAN AND SAVE FOR REUSE. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ③ REMOVE CEILING MOUNTED TRACK LIGHTING SYSTEM AND LIGHTING FIXTURES. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NO OTHER DEVICE EXIST.
- ④ PANEL TO REMAIN.
- ⑤ REMOVE LIGHT FIXTURE. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑥ REMOVE LIGHT SWITCH. SAVE OUTLET BOX AND BRANCH CIRCUIT CONDUCTORS FOR REUSE.
- ⑦ REMOVE ALL WALL MOUNTED LIGHTING FIXTURES WITH BATTERY BACKUP. REMOVE ALL BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NOT OTHER DEVICE EXIST.
- ⑧ LIGHTING FIXTURE AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO REMAIN.
- ⑨ REMOVE WALL MOUNTED EXIT LIGHT. REMOVE BRANCH CIRCUIT CONDUCTORS. SAVE OUTLET BOX AND CONDUIT FOR REUSE.
- ⑩ REMOVE INDICATED DIMMER AND LIGHT SWITCHES. REMOVE SWITCH LEG CONDUCTORS. OUTLET BOXES AND SWITCH LEG CONDUITS TO REMAIN. PROVIDE BLANK COVERPLATES ON EXISTING OUTLET BOXES.
- ⑪ WALL MOUNTED LIGHTING FIXTURES WITH BATTERY BACKUP AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO REMAIN.

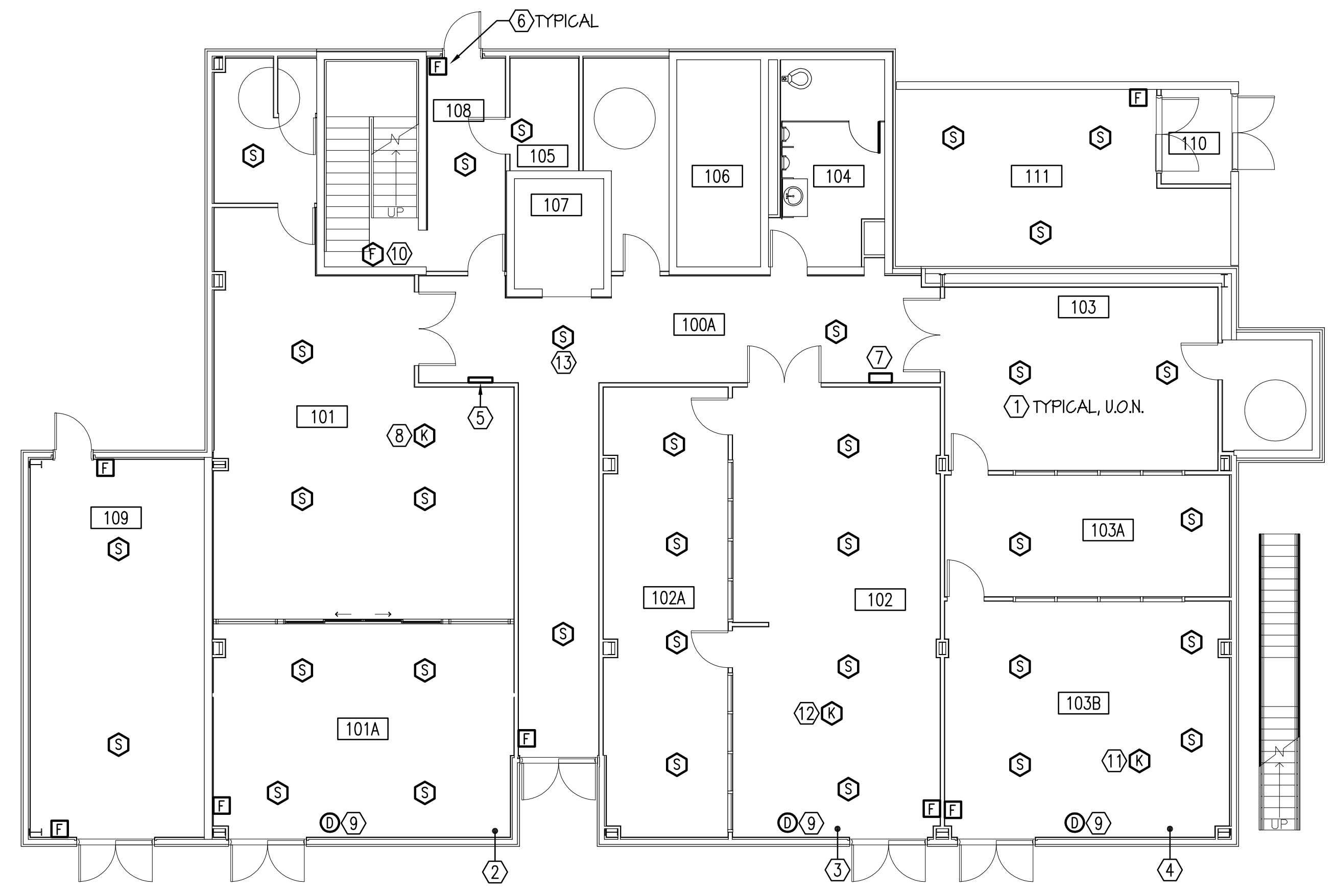
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FIRST FLOOR PLAN - DEMOLITION - ADD
ALTERNATE NO.1

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.3	



**FIRST FLOOR PLAN - DEMOLITION - FIRE ALARM SYSTEM
- ADD ALTERNATE NO.2**

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

DEMOLITION NOTES: (THIS SHEET ONLY)

- ① REMOVE CEILING MOUNTED FIRE ALARM SMOKE DETECTOR. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ② REMOVE A TOTAL OF EIGHT (8) FIRE ALARM SMOKE DETECTORS LOCATED IN SPACE 101 AND 101A RAISED FLOOR SYSTEM. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ③ REMOVE TOTAL OF EIGHT (8) FIRE ALARM SMOKE DETECTORS LOCATED IN SPACE 102 AND 102A RAISED FLOOR SYSTEM. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ④ REMOVE TOTAL OF EIGHT (8) FIRE ALARM SMOKE DETECTORS LOCATED IN SPACE 103, 103A AND 103B RAISED FLOOR SYSTEM. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑤ REMOVE FIRE ALARM GRAPHIC ANNUNCIATOR PANEL AND SAVE FOR REUSE. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE. REMOVE 120-VOLT POWER CONNECTION TO FIRE ALARM GRAPHIC ANNUNCIATOR PANEL. REMOVE SURFACE METAL RACEWAY AND CONDUCTORS TO DUPLEX RECEPTACLE LOCATED BELOW THE FIRE ALARM GRAPHIC ANNUNCIATOR PANEL.
- ⑥ REMOVE FIRE ALARM PULL STATION. SAVE OUTLET BOX AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑦ FIRE ALARM TERMINAL CABINET TO REMAIN.
- ⑧ HALL "C" FIRE ALARM REMOTE ANNUNCIATOR STATION MOUNTED ON CONTROL CONSOLE TO REMAIN. SAVE HOMERUN CONDUIT AND CONDUCTORS BACK TO FIRE ALARM GRAPHIC ANNUNCIATOR PANEL FOR REUSE.
- ⑨ REMOVE DUCT DETECTOR WITH SAMPLING TUBES LOCATED IN RETURN AIR DUCT. SAVE FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑩ REMOVE AND REPLACE INITIATING DEVICE INTERFACE MODULE SERVING SPRINKLER SYSTEM TAMPER AND FLOW DEVICES WITH SIEMENS "TRI-D" MODULE. CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS.
- ⑪ HALL "A" FIRE ALARM REMOTE ANNUNCIATOR STATION MOUNTED ON CONTROL CONSOLE TO REMAIN. SAVE HOMERUN CONDUIT AND CONDUCTORS BACK TO FIRE ALARM GRAPHIC ANNUNCIATOR PANEL FOR REUSE.
- ⑫ HALL "B" FIRE ALARM REMOTE ANNUNCIATOR STATION MOUNTED ON CONTROL CONSOLE TO REMAIN. SAVE HOMERUN CONDUIT AND CONDUCTORS BACK TO FIRE ALARM GRAPHIC ANNUNCIATOR PANEL FOR REUSE.
- ⑬ REMOVE ELEVATOR LOBBY CEILING MOUNTED FIRE ALARM SMOKE DETECTOR. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.



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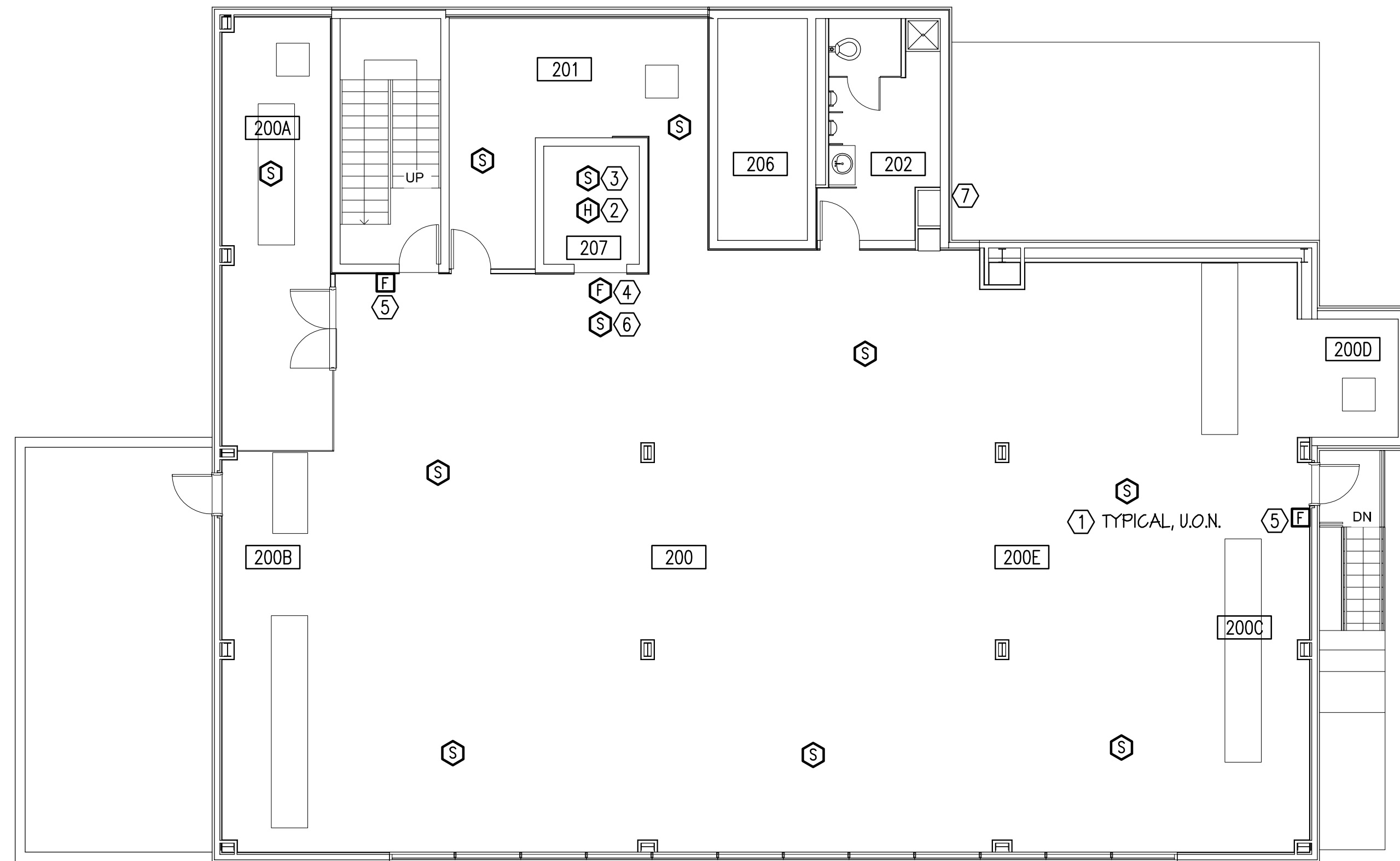
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FIRST FLOOR PLAN - DEMOLITION - FIRE ALARM
SYSTEM - ADD ALTERNATE NO.2

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.4	



**SECOND FLOOR PLAN - DEMOLITION - FIRE ALARM SYSTEM
- ADD ALTERNATE NO.2**

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

DEMOLITION NOTES

- ① REMOVE CEILING MOUNTED FIRE ALARM SMOKE DETECTOR. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ② REMOVE FIRE ALARM HEAT DETECTOR MOUNTED IN ELEVATOR SHAFT. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ③ REMOVE FIRE ALARM SMOKE DETECTOR MOUNTED IN ELEVATOR SHAFT. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ④ REMOVE AND REPLACE INITIATING DEVICE INTERFACE MODULE SERVING SPRINKLER SYSTEM TAMPER AND FLOW DEVICES WITH SIEMENS "TRI-D" MODULE. CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS.
- ⑤ REMOVE FIRE ALARM PULL STATION. SAVE OUTLET BOX AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑥ REMOVE ELEVATOR LOBBY CEILING MOUNTED FIRE ALARM SMOKE DETECTOR. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑦ REMOVE AND REPLACE INITIATING DEVICE INTERFACE MODULE SERVING EXISTING EXHAUST FAN "EF-CH-1" WITH SIEMENS "TRI-R" MODULE. CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS.



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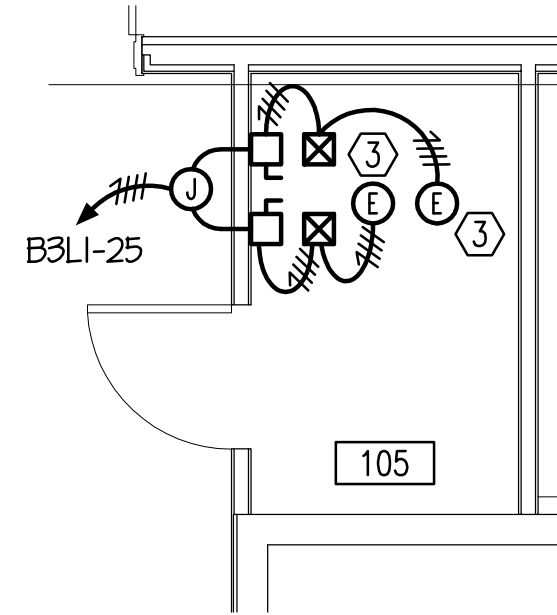
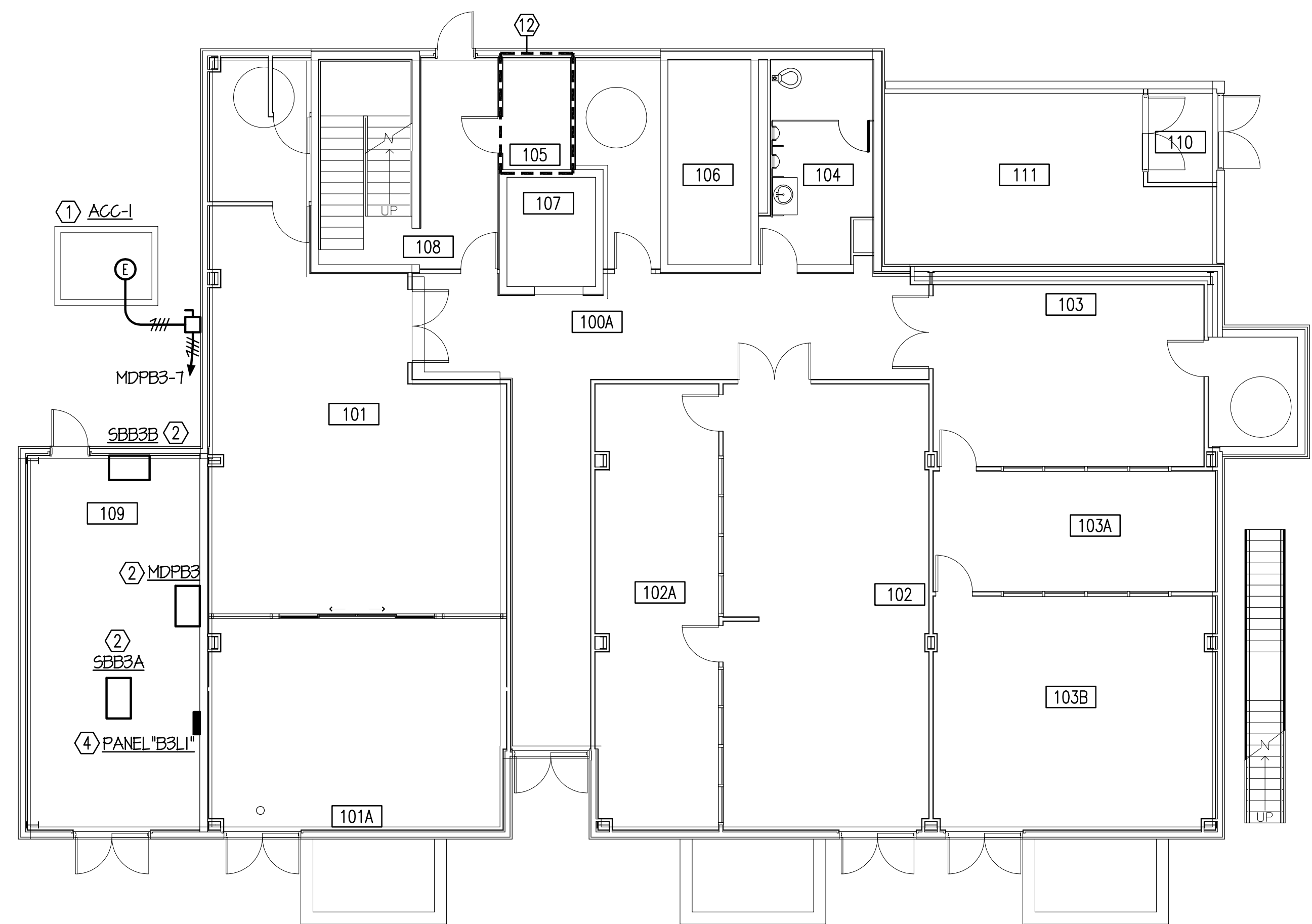
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SME	CHECKED		CHECKED						
FM&L	APPROVED		APPROVED						

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SECOND FLOOR PLAN - DEMOLITION - FIRE ALARM SYSTEM - ADD ALTERNATE NO.2

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.5	



**ENLARGED ROOM 105 PLAN -
DEMOLITION - ADD ALTERNATE NO.5**
SCALE: 1/4" = 1'-0"

FIRST FLOOR PLAN - DEMOLITION - POWER - ADD ALTERNATE NO.5
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES: (THIS SHEET ONLY)

- ① REMOVE ELECTRICAL CONNECTION TO "ACC-1". REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO SWITCHBOARD "MDPB3". SEAL CONDUIT PENETRATIONS THROUGH EXTERIOR WALL.
- ② EXISTING SWITCHBOARD TO REMAIN.
- ③ REMOVE ELECTRICAL CONNECTION TO PUMP AND STARTER. REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO INDICATED PANEL.
- ④ EXISTING PANEL TO REMAIN.

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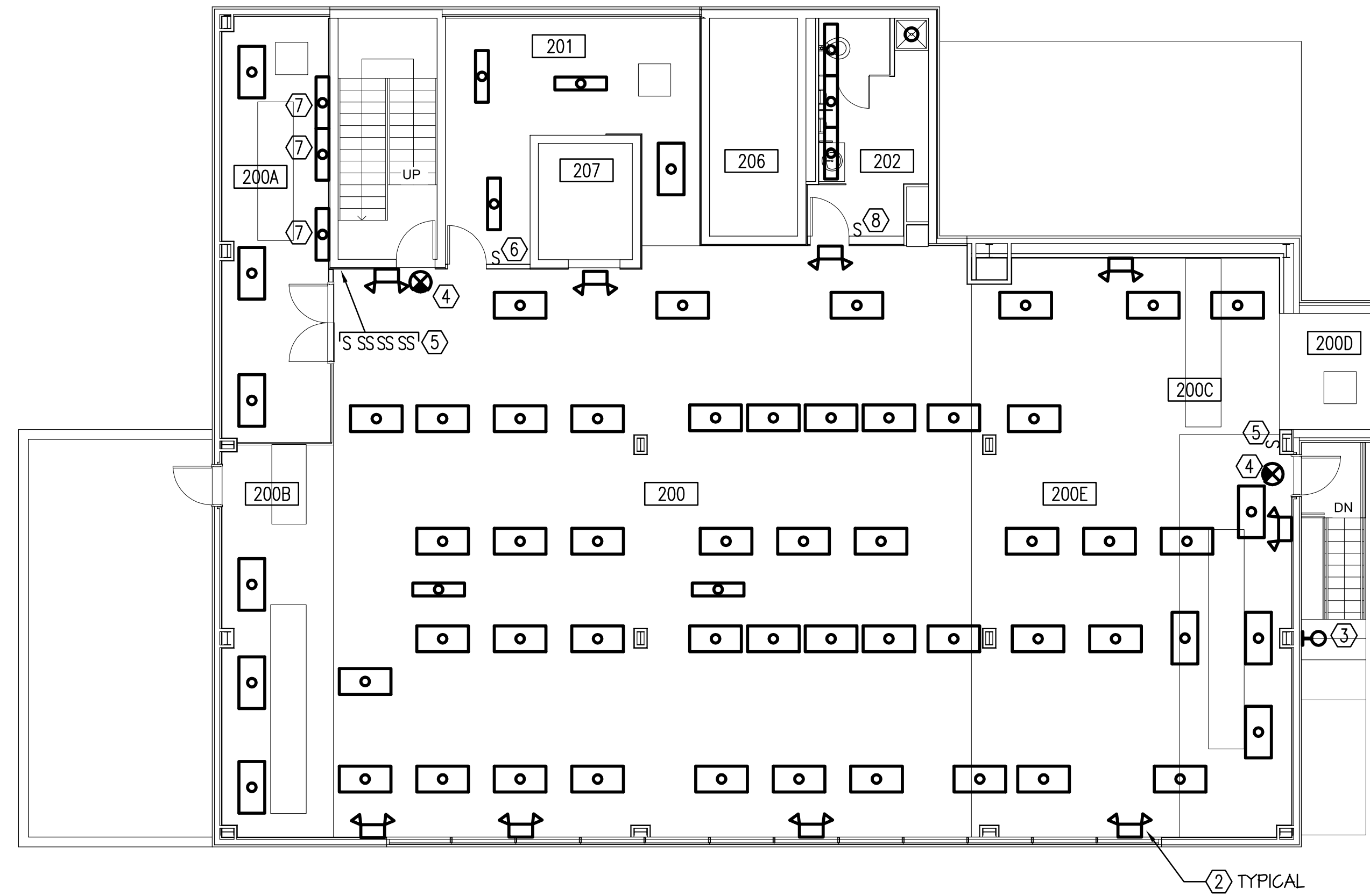
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FIRST FLOOR PLAN - DEMOLITION - POWER - ADD
ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.6	



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SECOND FLOOR PLAN - DEMOLITION - LIGHTING - ADD ALTERNATE NO.5 ①

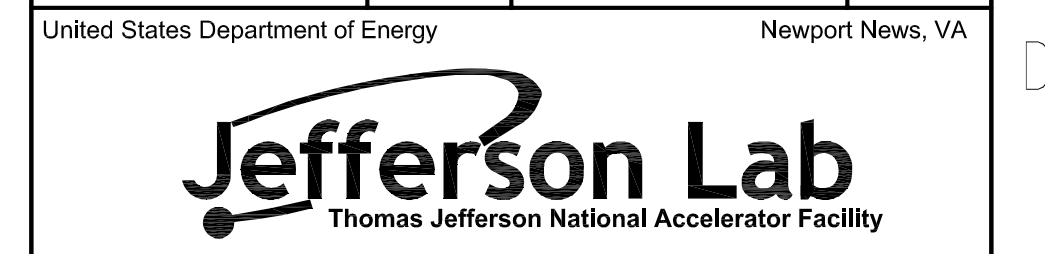
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES: (THIS SHEET ONLY)

- ① REMOVE ALL LIGHTING FIXTURES INDICATED ON THE ABOVE FLOOR PLAN, U.O.N. REMOVE ALL BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NOT OTHER DEVICE EXIST.
- ② REMOVE WALL MOUNTED LIGHTING FIXTURE WITH BATTERY BACKUP. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NOT OTHER DEVICE EXIST.
- ③ WALL MOUNTED LIGHTING FIXTURE AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO REMAIN.
- ④ REMOVE WALL MOUNTED EXIT LIGHT. REMOVE BRANCH CIRCUIT CONDUCTORS. SAVE OUTLET BOX AND CONDUIT FOR REUSE.
- ⑤ REMOVE INDICATED LIGHT SWITCHES AND SWITCH LEG CONDUCTORS. OUTLET BOXES AND SWITCH LEG CONDUIT TO REMAIN. PROVIDE BLANK COVERPLATE ON EXISTING OUTLET BOXES.
- ⑥ REMOVE LIGHT SWITCH AND SWITCH LEG CONDUCTORS. OUTLET BOX AND SWITCH LEG CONDUIT TO REMAIN FOR REUSE.
- ⑦ REMOVE ALL WALL MOUNTED LIGHTING FIXTURE. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE TO REMAIN OR POINT OF ORIGIN IF NOT OTHER DEVICE EXIST.
- ⑧ REMOVE LIGHT SWITCH, SWITCH OUTLET BOX, CONDUIT AND CONDUCTORS.

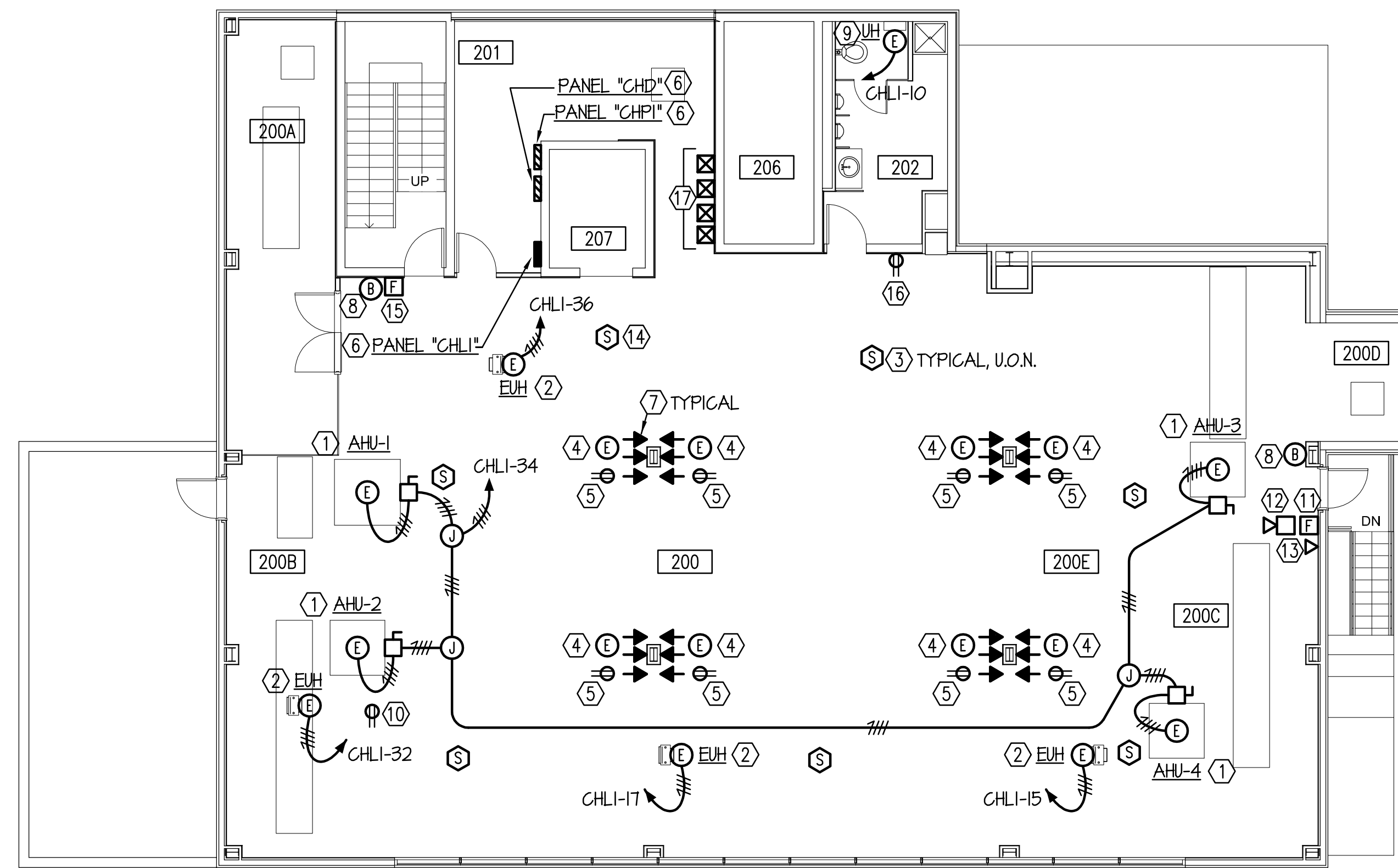
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SECOND FLOOR PLAN - DEMOLITION - LIGHTING -
ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.7	



SECOND FLOOR PLAN - DEMOLITION - POWER AND AUXILIARY SYSTEMS - ADD ALTERNATE NO.5

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

DEMOLITION NOTES (THIS SHEET ONLY)

- ① REMOVE ELECTRICAL CONNECTION TO "AHU". REMOVE DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO INDICATED PANEL.
- ② REMOVE ELECTRICAL CONNECTION TO "EUH". REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO INDICATED PANEL.
- ③ REMOVE CEILING MOUNTED SMOKE DETECTOR AND SAVE FOR REUSE. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ④ REMOVE ELECTRICAL CONNECTION TO MODULAR FURNITURE SYSTEM. REMOVE BRANCH CIRCUIT CONDUCTORS BACK TO PANEL "CHD". REMOVE EXPOSED CONDUIT. ABANDON CONCEALED CONDUIT IN PLACE. PROVIDE BLANK COVERPLATE ON EXISTING OUTLET BOX.
- ⑤ REMOVE RECEPTACLE. REMOVE BRANCH CIRCUIT CONDUCTORS BACK TO PANEL "CHPI". PROVIDE BLANK COVERPLATE ON EXISTING OUTLET BOX.
- ⑥ PANEL TO REMAIN.
- ⑦ REMOVE COMMUNICATION OUTLET. REMOVE COMMUNICATION CABLES BACK TO POINT OF ORIGIN. PROVIDE BLANK COVERPLATE ON EXISTING OUTLET BOX. COORDINATE THIS WORK WITH THE OWNER.
- ⑧ EMERGENCY PUSH-BUTTON SHUT-OFF SWITCH FOR "AHU-1" AND DATA EQUIPMENT TO REMAIN FOR REUSE. SAVE CONDUIT AND CONTROL CONDUCTORS FOR REUSE.
- ⑨ REMOVE ELECTRICAL CONNECTION TO WALL HEATER. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO INDICATED PANEL.
- ⑩ REMOVE RECEPTACLE SERVING PENDANT MOUNTED TELEVISION. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS BACK TO PANEL "CHPI". COORDINATE REMOVAL OF TELEVISION WITH THE OWNER.
- ⑪ REMOVE FIRE ALARM PULL STATION AND SAVE FOR REUSE. REMOVE FIRE ALARM BRANCH CIRCUIT CONDUCTORS TO ABOVE CEILING AND SAVE FOR REUSE. ABANDON CONDUIT IN PLACE.
- ⑫ REMOVE FIRE ALARM BELL/VISUAL DEVICE AND SAVE FOR REUSE. REMOVE FIRE ALARM BRANCH CIRCUIT CONDUCTORS TO ABOVE CEILING AND SAVE FOR REUSE. ABANDON CONDUIT IN PLACE.
- ⑬ REMOVE AND RELOCATE SURFACE MOUNTED TELEPHONE OUTLET AND HOMERUN CONDUIT AND CONDUCTORS TO ACCOMMODATE THE INSTALLATION OF NEW WALL. COORDINATE THIS WORK WITH OWNER.
- ⑭ REMOVE CEILING MOUNTED ELEVATOR LOBBY SMOKE DETECTOR AND SAVE FOR REUSE. SAVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS FOR REUSE.
- ⑮ EXISTING FIRE ALARM PULL STATION TO REMAIN.
- ⑯ REMOVE RECEPTACLE. REMOVE BRANCH CIRCUIT CONDUCTORS BACK TO PANEL "CHPI".
- ⑰ REMOVE STARTERS FOR AHU-1, 2, 3 AND 4. COORDINATE THIS WORK WITH MECHANICAL CONTRACTOR.



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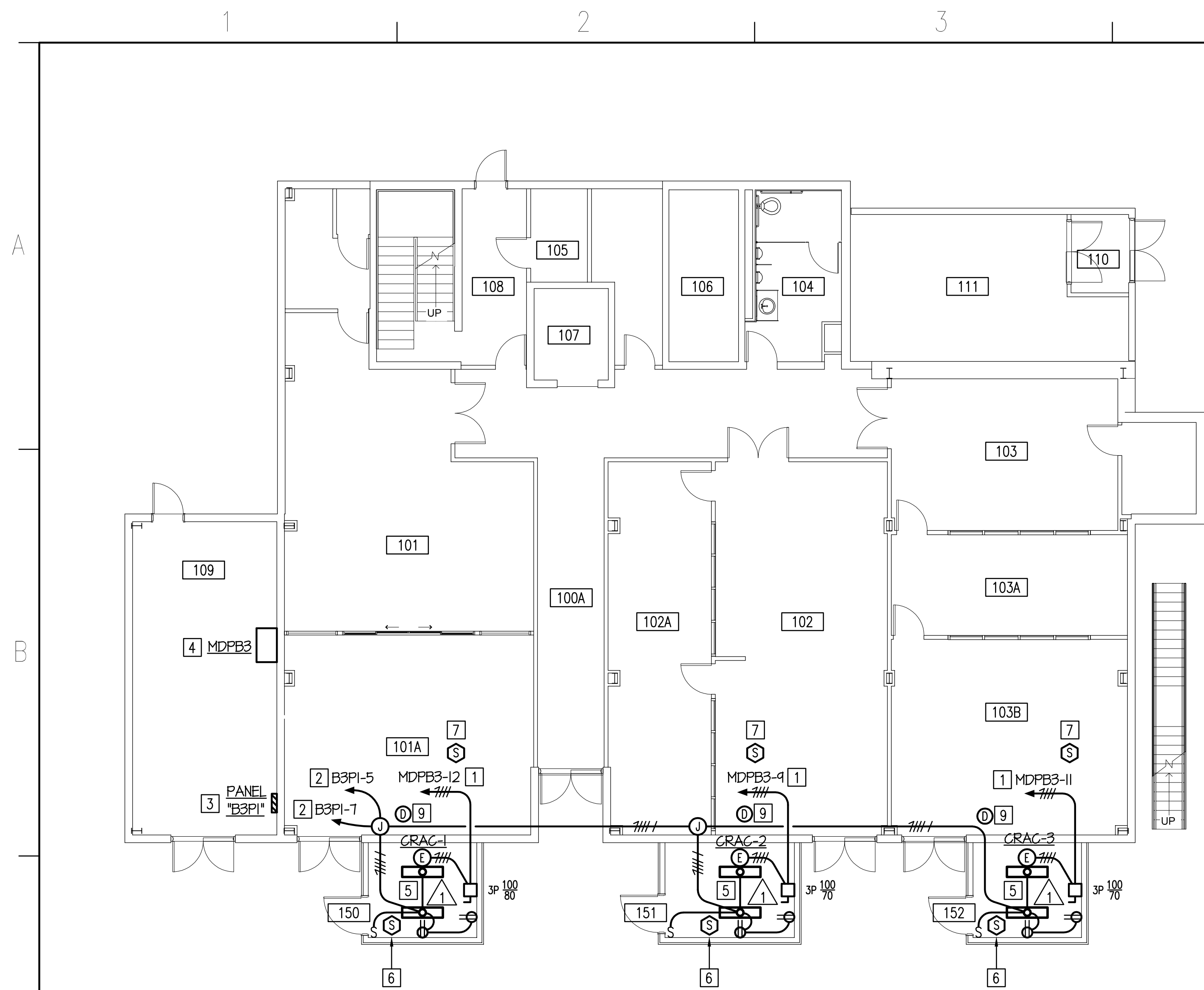
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SECOND FLOOR PLAN - DEMOLITION - POWER AND AUXILIARY SYSTEMS - ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E1.8	



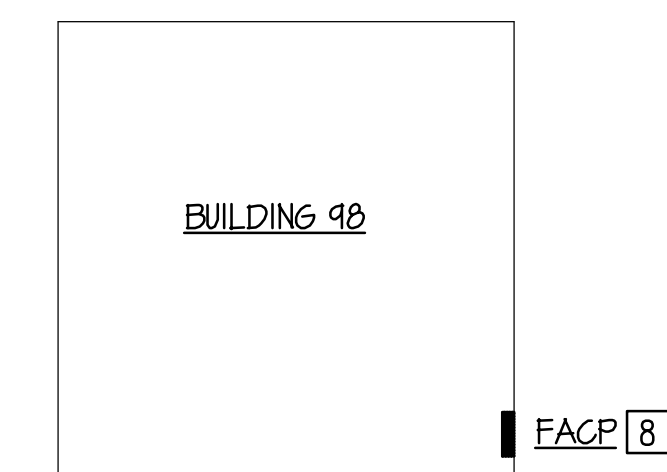
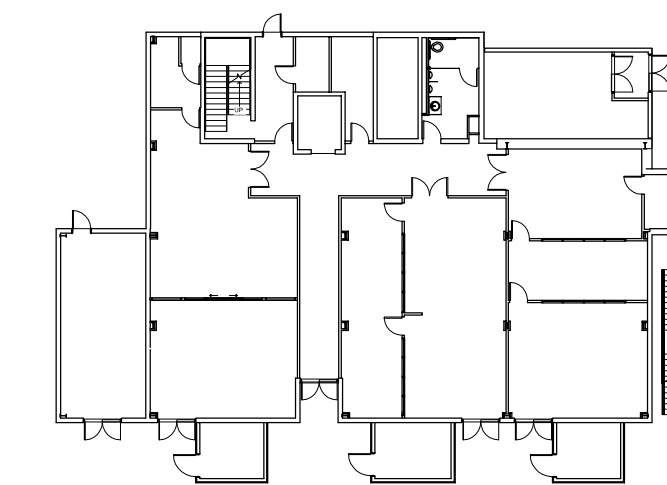
FIRST FLOOR PLAN - NEW WORK - BASE BID

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 PROVIDE 3 #1 AND 1 #6 GND. IN 1-1/2" CONDUIT. RUN HOMERUN CONDUIT AND CONDUCTORS CONCEALED ABOVE LAY-IN TILE CEILING. TERMINATE AT EXISTING SWITCHBOARD "MDPB3", SPARE 125-AMP, 3-POLE CIRCUIT BREAKER SAVE DURING DEMOLITION.
- 2 RUN HOMERUN CONDUIT AND CONDUCTORS CONCEALED ABOVE CEILING. TERMINATE AT EXISTING PANEL "B3PI", SPARE 20-AMP, 1-POLE CIRCUIT BREAKER.
- 3 EXISTING PANEL TO REMAIN.
- 4 EXISTING SWITCHBOARD TO REMAIN.
- 5 CONNECT LIGHTING FIXTURE TO HOMERUN "B3PI-5". CONNECT RECEPTACLES TO HOMERUN "B3PI-7".
- 6 PROVIDE FIRE ALARM SMOKE DETECTOR, SIEMENS #ILI-I WITH MOUNTING BASE #DB-35. SURFACE MOUNT ON BOTTOM OF UPPER CHORD OF JOIST. PROVIDE FIRE ALARM CABLES (18/2 SOLID COPPER, TWISTED, SHIELDED, PLENUM AND "FPLR" RATED FIRE ALARM CABLE) IN 1/2" CONDUIT. CONNECT TO EXISTING SMOKE DETECTOR INDICATED BY NEW WORK NOTE #7.
- 7 EXISTING CEILING MOUNTED FIRE ALARM SMOKE DETECTOR.
- 8 EXISTING SIEMENS "MXL" FIRE ALARM CONTROL PANEL. PROGRAM FIRE ALARM CONTROL PANEL TO REFLECT THE ADDITION OF THE THREE NEW SMOKE DETECTORS. ASSIGN ROOM 150 SMOKE DETECTOR TO LOOP 54, SPARE MODULE SUB-ADDRESS #1. ASSIGN ROOM 151 SMOKE DETECTOR TO LOOP 54, SPARE MODULE SUB-ADDRESS #17. ASSIGN ROOM 152 SMOKE DETECTOR TO LOOP 54, SPARE MODULE SUB-ADDRESS #20.
- 9 REINSTALL FIRE ALARM DUCT SMOKE DETECTOR SAVED DURING DEMOLITION. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE NEW SAMPLING TUBES. PROVIDE FIRE ALARM CABLES (2-CONDUCTOR, 18-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE) IN 1/2" CONDUIT. CONNECT TO EXISTING CEILING MOUNTED SMOKE DETECTOR. INDICATED BY NEW WORK NOTE #7.

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PARTIAL SITE PLAN - BASE BID

SCALE: 1/32" = 1'-0"

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FIRST FLOOR PLAN - NEW WORK - BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.1	

PANEL "CHL4" 225 AMP 480Y/277V, 3Ø, 4W, M.C.B., SURFACE MTD.

LOAD SERVED	LOAD (AMPS)			CKT. BKR. KAIC	WIRE SIZE	CKT. NO.	PHASE			CKT. NO.	WIRE SIZE	CKT. BKR. KAIC	WIRE SIZE	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C					A	B	C	
OU-CH-2	62			25	90	3	1			2	12	25	20	7.6			CU-CH-1
		62				3			4					7.6			
			62			5			6						7.6		
OU-CH-1	62				90	3	7			8	12		20	5.9			CU-CH-2
		62				9			10					5.9			
			62			11			12					5.9			
CU-CH-4	17.4				25	10	13			14	12		20	5.9			CU-CH-3
		17.4				15			16					5.9			
			17.4			17			18					5.9			
SPARE	-				20	-	19			20	-		20	-			SPARE
		-				21			22	-		20	-				SPARE
			-			23			24	-		20	-				SPARE
SPACE	-				-	-	25			26	-		-				SPACE
SPACE		-			-	-	27			28	-		-				SPACE
SPACE			-		-	-	29			30	-		-				SPACE
SPACE	-				-	-	31			32	-		-				SPACE
SPACE		-			-	-	33			34	-		-				SPACE
SPACE			-		-	-	35			36	-		-				SPACE
SPACE	-				-	-	37			38	-		-				SPACE
SPACE		-			-	-	39			40	-		-				SPACE
SPACE			-		-	-	41			42	-		-				SPACE

PANEL "CHP2" 200 AMP 208Y/120V, 3Ø, 4W, M.C.B., SURFACE MTD.

LOAD SERVED	LOAD (AMPS)			CKT. BKR. KAIC	WIRE SIZE	CKT. NO.	PHASE			CKT. NO.	WIRE SIZE	CKT. BKR. KAIC	WIRE SIZE	LOAD (AMPS)			LOAD SERVED
	A	B	C				A	B	C					A	B	C	
SCU-CH-1	31			10	40	8	1			2	12	10	20	12			RECEPTACLES ROOMS 200 & 200G
		31				3			4	12		20	12				RECEPTACLES ROOMS 200C & 200E
			31			5			6	12		20		5			RECEPTACLES ROOM 200
SS-CH-1	63				70	4	7			8	12		20	5			RECEPTACLES ROOM 200
		63				9			10	12		20		5			RECEPTACLES ROOM 200
			63			11			12	12		20		5			RECEPTACLES ROOM 200
IU-CU & BS-CH UNITS	10				20	12	13			14	12		20	5			RECEPTACLES ROOM 200
IU-CU & BS-CH UNITS		10				15			16	12		20		5			RECEPTACLES ROOM 200
IU-CU & BS-CH UNITS			7.5			17			18	12		20		5			RECEPTACLES ROOM 200G
IU-CU & BS-CH UNITS	7.5					19			20	12		20		5			RECEPTACLES ROOM 200G
IU-CU & BS-CH UNITS		2				21			22	12		20		5			RECEPTACLES ROOM 200G
IU-CU & BS-CH UNITS			2			23			24	12		20		5			RECEPTACLES ROOM 200G
★ LIGHTS RM 208	2					25			26	12		20		5			RECEPTACLES ROOM 200G
SPARE		-				27			28	12		20		5			RECEPTACLES ROOM 200G
SPARE			-			29			30	12		20		5			RECEPTACLES ROOM 200G
SPARE						31			32	12		20		5			RECEPTACLES ROOM 200G
SPARE						33			34	12		20		10			FIRE ALARM POWER PANEL
SPARE						35			36	-		20		-			SPARE
SPD	1					37			38	-		20		-			SPARE
		1				39			40	-		20		-			SPARE
			1			41			42	-		20		-			SPARE

★ PROVIDE "GFCI" TYPE CIRCUIT BREAKER



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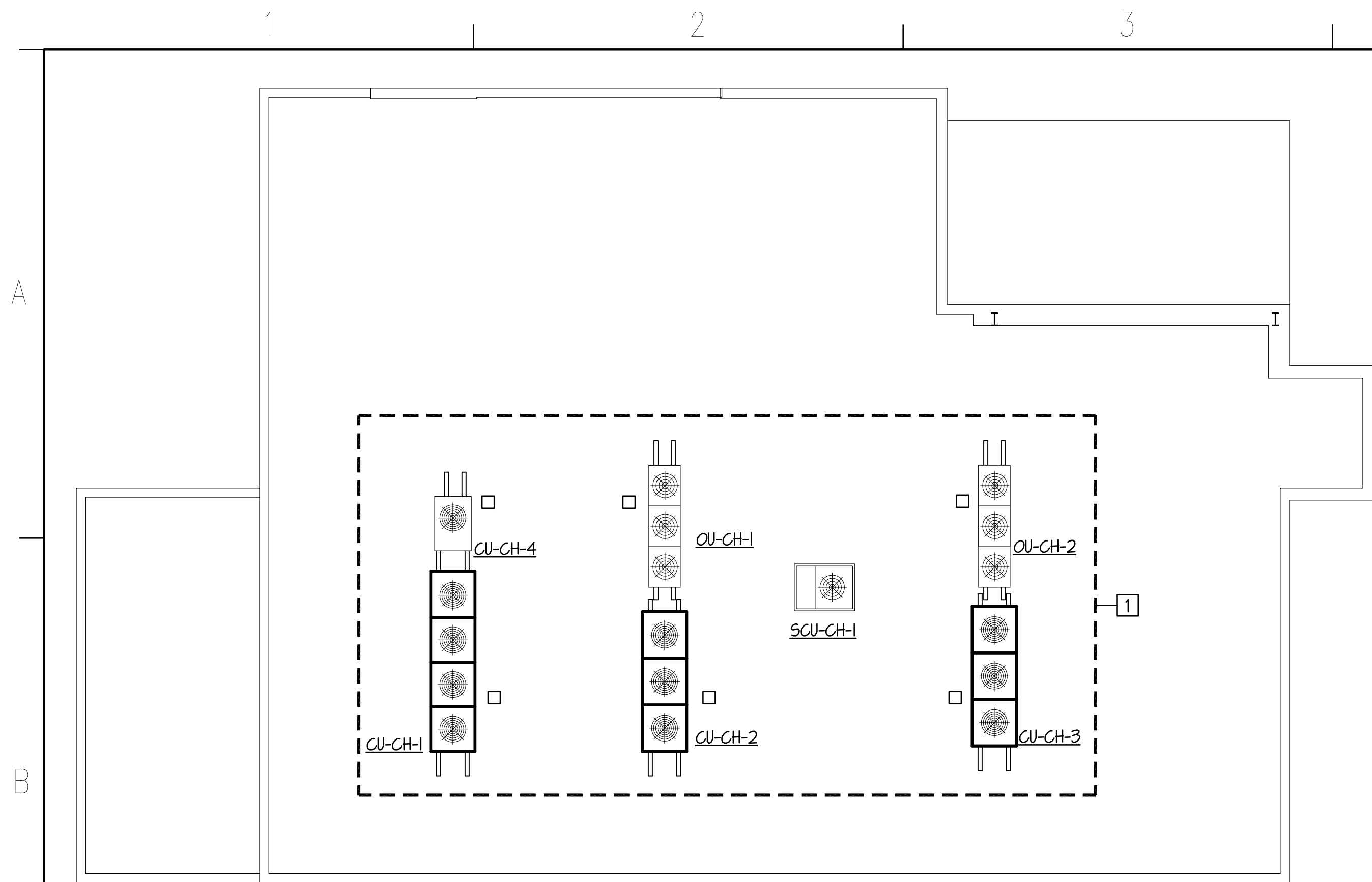
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PANELBOARD SCHEDULES

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.10	

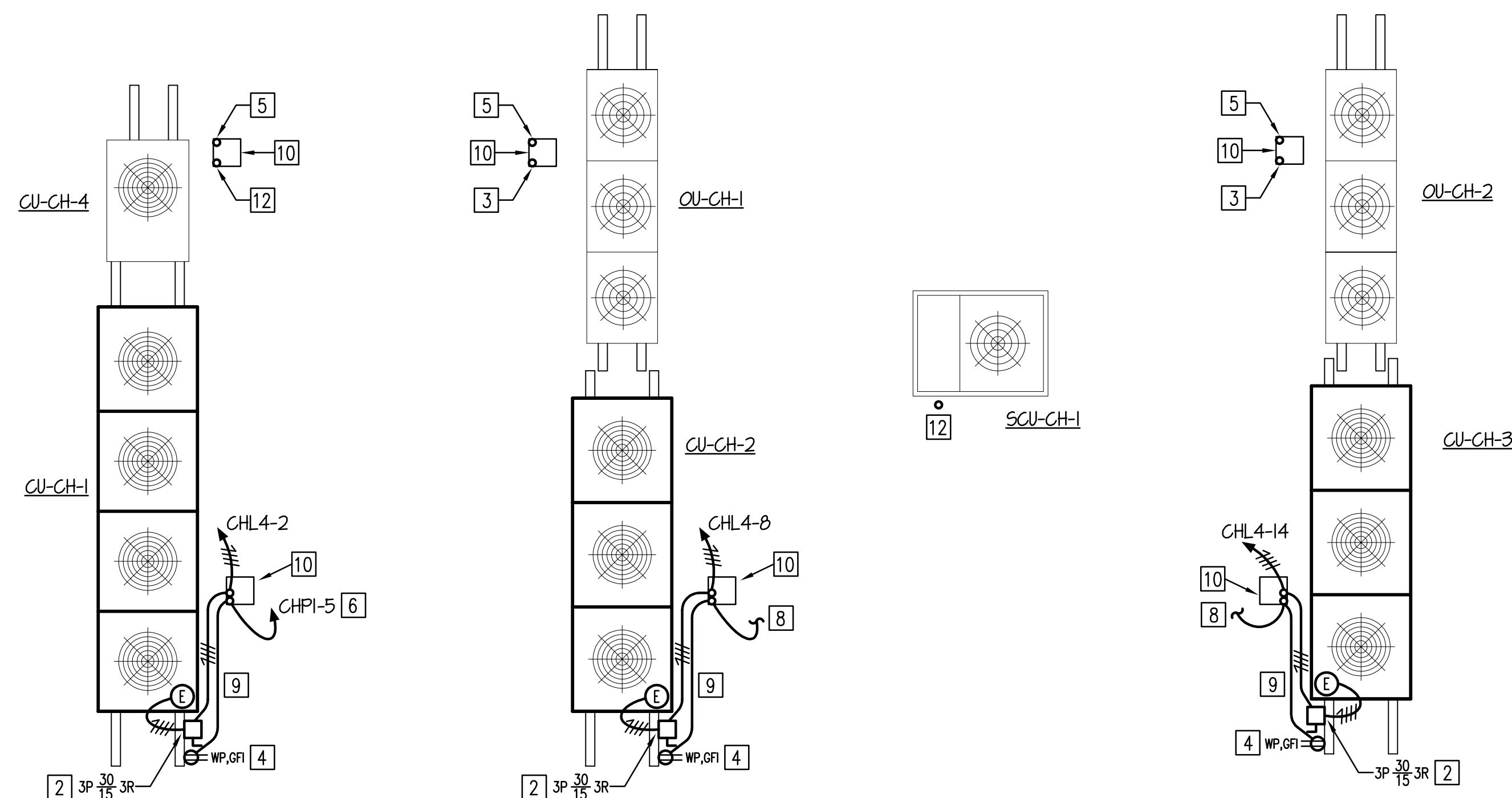


NEW WORK NOTES: (THIS SHEET ONLY)

- 1 REFER TO "ENLARGED PLAN - HVAC POWER - BASE BID" ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 2 MOUNT DISCONNECT SWITCHES ON CONDENSING UNIT SUPPORT RAILING SYSTEM USING SUPERSTRUT A-1200-5 CHANNEL OR APPROVED EQUAL.
- 3 PROVIDE 1-1/4" CONDUIT WITH FULL WIRE FOR FUTURE CONNECTION CONDENSING UNIT. STUB-UP CONDUIT 12" ABOVE PIPE/CONDUIT PORTAL AND CAP. TERMINATE CONDUIT WITH FULL WIRE BELOW ROOF IN A JUNCTION BOX.
- 4 MOUNT RECEPTACLE ON CONDENSING UNIT SUPPORT RAILING SYSTEM.
- 5 PROVIDE 1/2" CONDUIT WITH FULL WIRE FOR FUTURE CONNECTION RECEPTACLE. STUB-UP CONDUIT 12" ABOVE ROOF AND CAP. TERMINATE CONDUIT BELOW ROOF IN A JUNCTION BOX.
- 6 TERMINATE HOMERUN AT EXISTING PANEL "CHPI", SPARE 20-AMP, 1 POLE CIRCUIT BREAKER #15.
- 7 EXISTING PANEL REUSED.
- 8 CONNECT TO HOMERUN "CHPI-15".
- 9 MOUNT CONDUITS ON CONDENSING UNIT SUPPORT RAILING SYSTEM.
- 10 PIPE/CONDUIT PORTAL PROVIDED BY MECHANICAL CONTRACTOR.
- 11 PROVIDE NEW PANEL. REFER TO PANELBOARD SCHEDULE ON DRAWING SHEET E2.10 FOR ADDITIONAL INFORMATION. PROVIDE 4 #4/0 AND 1 #4 GROUND IN 2-1/2" CONDUIT. TERMINATE AT EXISTING SWITCHBOARD "SBB3A", SPARE 225-AMP, 3-POLE SPARE BREAKER #6. REFER TO DRAWING SHEET E1.1 FOR LOCATION OF "SBB3A".
- 12 PROVIDE 1" CONDUIT WITH FULL WIRE FOR FUTURE CONNECTION CONDENSING UNIT. STUB-UP CONDUIT 12" ABOVE PIPE/CONDUIT PORTAL AND CAP. TERMINATE CONDUIT WITH FULL WIRE BELOW ROOF IN A JUNCTION BOX.

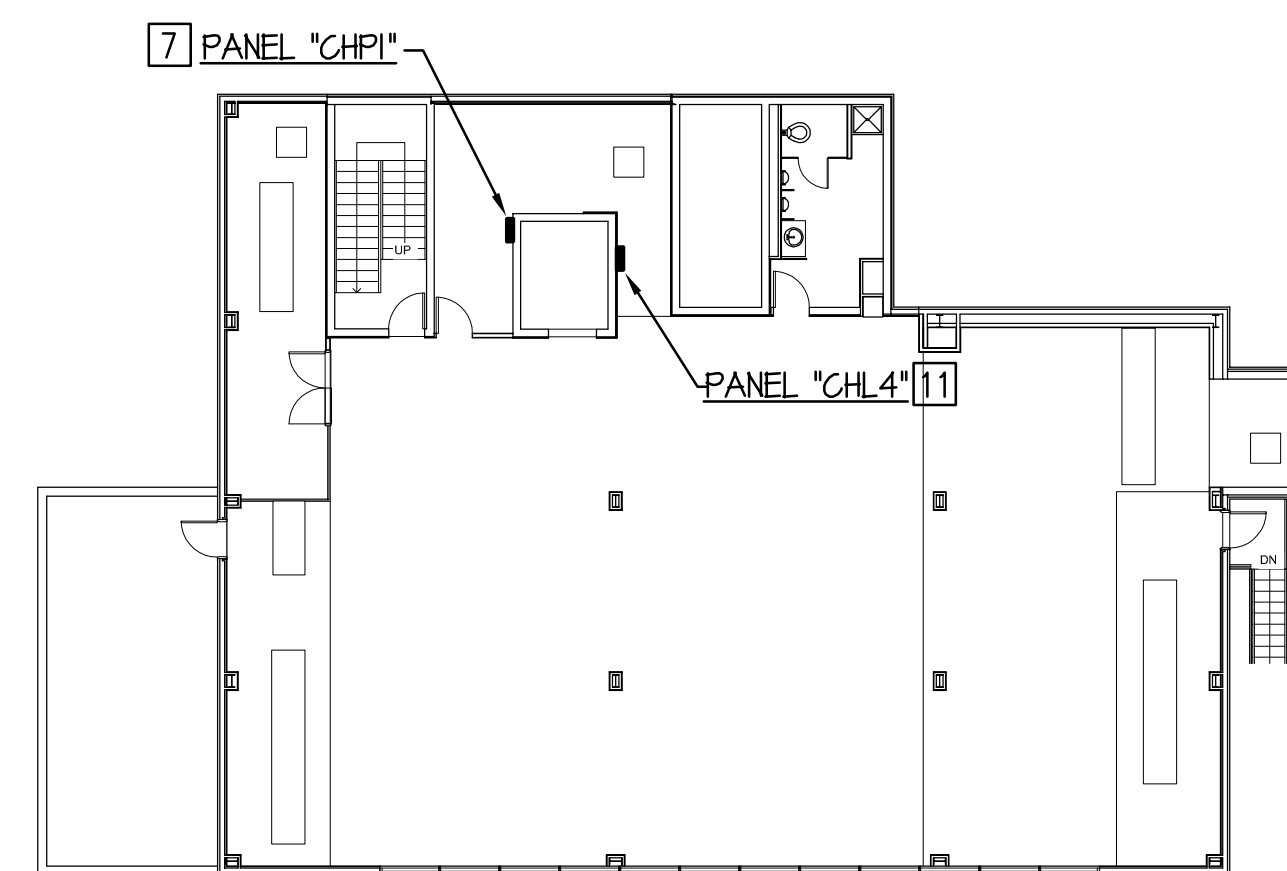
ROOF PLAN - NEW WORK - HVAC POWER - BASE BID

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



ENLARGED PLAN - NEW WORK - HVAC POWER - BASE BID

SCALE: 1/4" = 1'-0"



SECOND FLOOR PLAN - NEW WORK - POWER - BASE BID

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



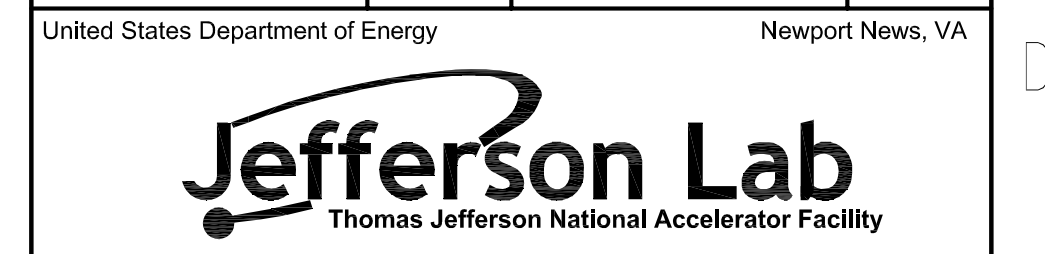
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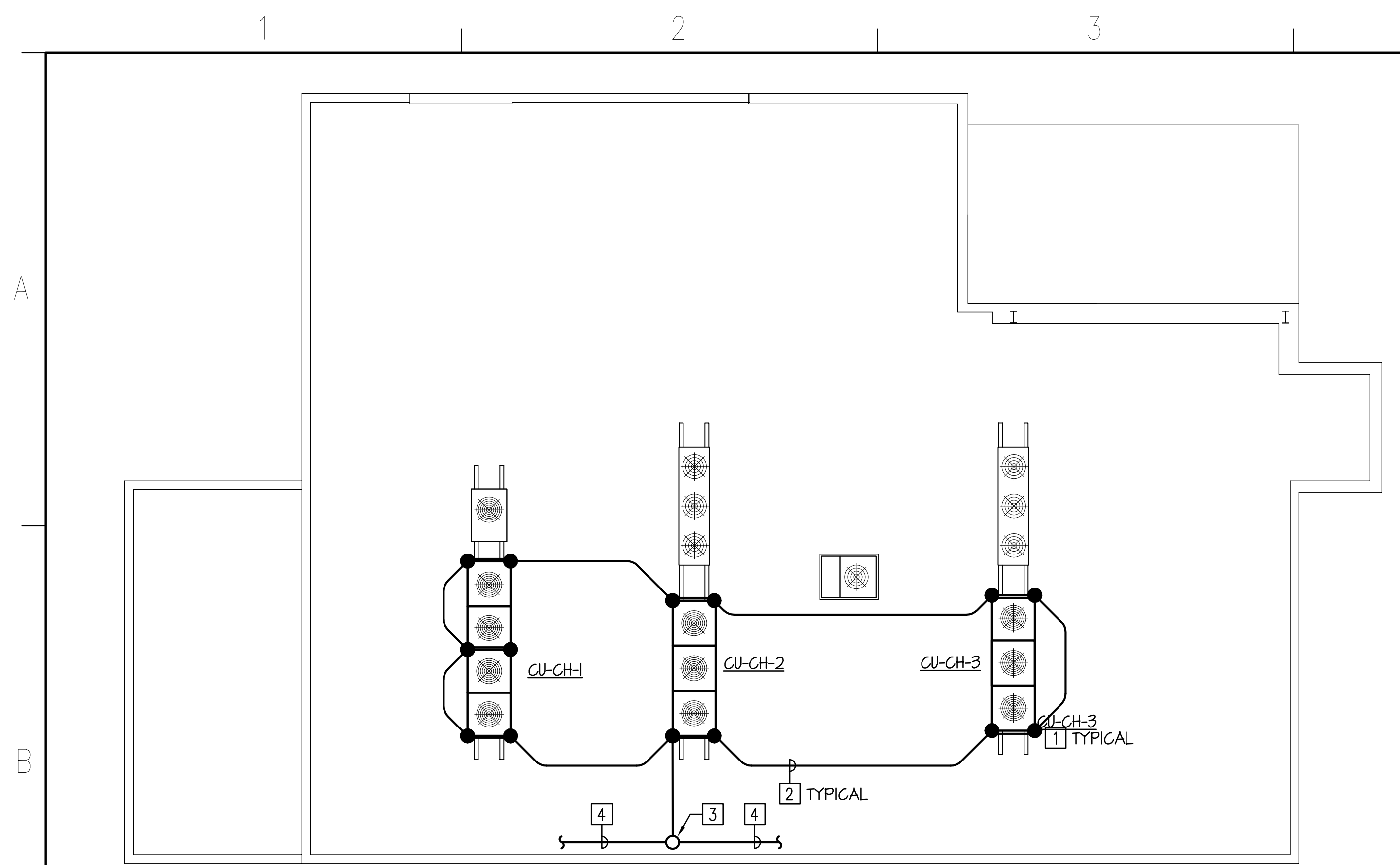
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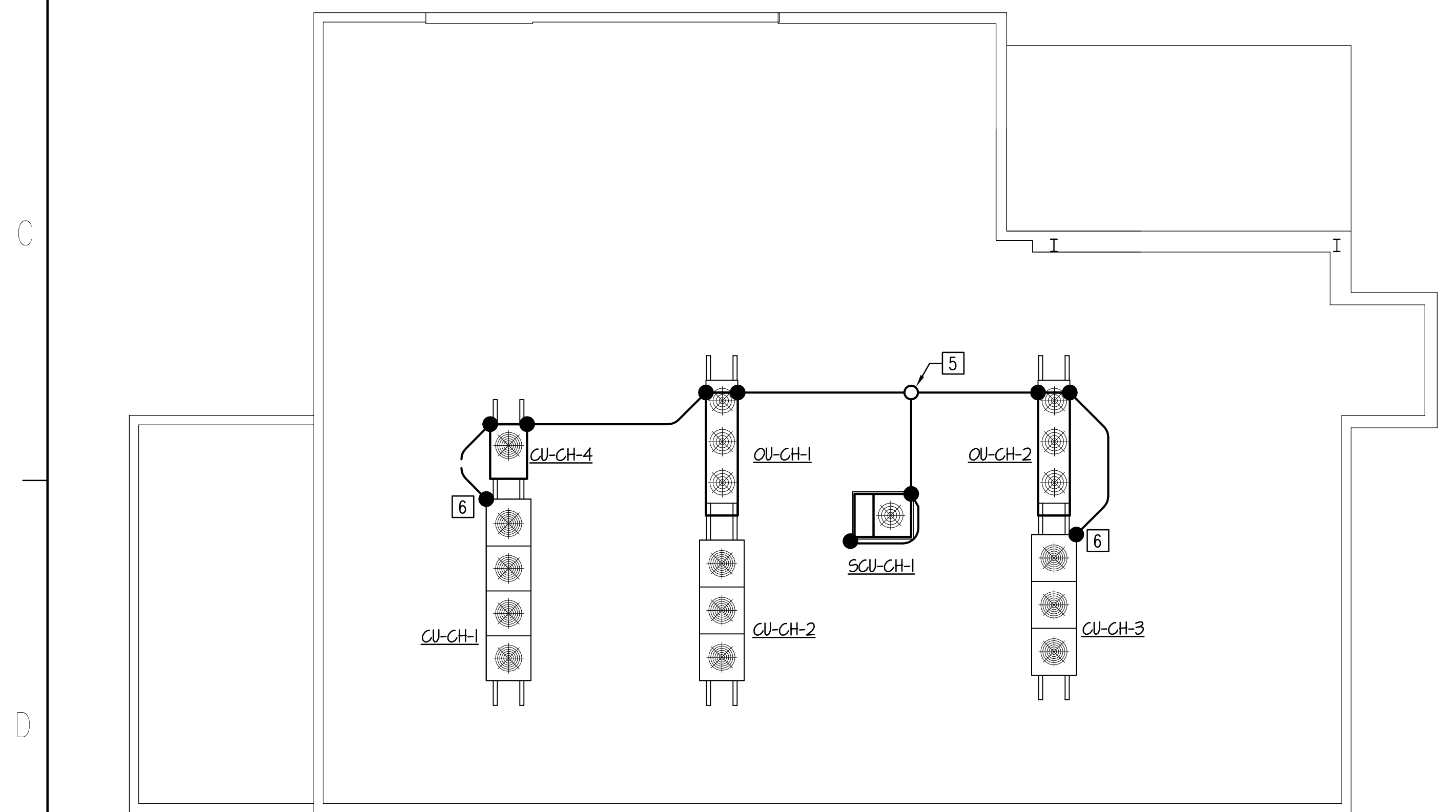
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ROOF PLAN - NEW WORK - HVAC POWER - BASE BID

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.2	



ROOF PLAN - NEW WORK - LIGHTNING PROTECTION - BASE BID

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



ROOF PLAN - NEW WORK - LIGHTNING PROTECTION - ADD ALTERNATE NO.5

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 LIGHTNING PROTECTION AIR TERMINAL. MOUNT ON THE UNIT.
- 2 LIGHTNING PROTECTION GROUND CONDUCTOR. PROVIDE BARE COPPER CONDUCTOR (#32 STRANDS OF 17 GAUGE, 1/16" DIAMETER, BRAIDED SMOOTH TWIST, 65,000 CIRCULAR MILS).
- 3 CONNECT TO EXISTING LIGHTNING PROTECTION GROUND CONDUCTOR USING LIGHTNING PROTECTION PARALLEL CLAMP.
- 4 EXISTING LIGHTNING PROTECTION GROUND CONDUCTOR.
- 5 PROVIDE LIGHTNING PROTECTION PARALLEL CLAMP.
- 6 EXISTING LIGHTNING PROTECTION AIR TERMINAL PROVIDED UNDER BASE BID.

LEGEND:

- LIGHTNING PROTECTION AIR TERMINAL
- LIGHTNING PROTECTION GROUND CONDUCTOR
- CONNECTION TO EXISTING GROUND CONDUCTOR.



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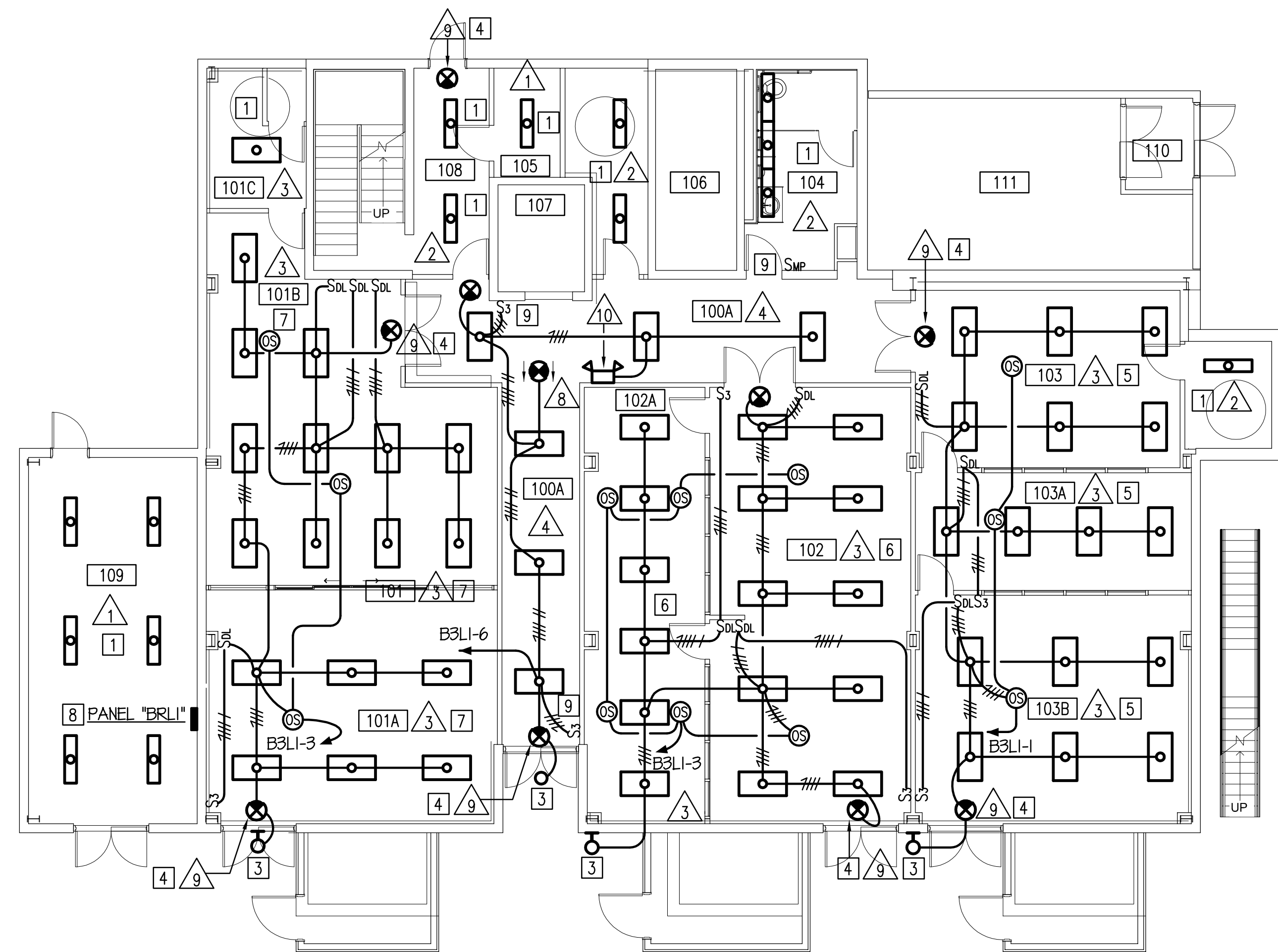
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ROOF PLAN - NEW WORK - LIGHTNING PROTECTION SYSTEM - BASE BID AND ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.3	



FIRST FLOOR PLAN - NEW WORK - LIGHTING - ADD ALTERNATE NO. 2

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 CONNECT LIGHTING FIXTURE TO EXISTING BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION.
- 2 ALL EXIT LIGHTING FIXTURES ARE TYPE "T", U.O.N.
- 3 EXISTING LIGHT FIXTURE REUSED. CONNECT TO INDICATED CIRCUIT.
- 4 MOUNT EXIT LIGHT FIXTURE ON EXISTING OUTLET BOX. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT SAVED DURING DEMOLITION.
- 5 MOUNT ALL NEW LIGHT SWITCHES AND 0-10 VOLT DIMMERS INDICATED IN THIS ROOM IN EXISTING LIGHT SWITCH OUTLET BOXES SAVED DURING DEMOLITION. INTERLOCK ALL CEILING MOUNTED OCCUPANCY SENSORS IN ROOM 102 AND 102A.
- 6 MOUNT ALL NEW LIGHT SWITCHES AND 0-10 VOLT DIMMERS INDICATED IN THIS ROOM IN EXISTING LIGHT SWITCH OUTLET BOXES SAVED DURING DEMOLITION. INTERLOCK ALL CEILING MOUNTED OCCUPANCY SENSORS IN ROOM 103, 103A AND 103B.
- 7 MOUNT ALL NEW LIGHT SWITCHES AND 0-10 VOLT DIMMERS INDICATED IN THIS ROOM IN EXISTING LIGHT SWITCH OUTLET BOXES SAVED DURING DEMOLITION. INTERLOCK ALL CEILING MOUNTED OCCUPANCY SENSORS IN ROOM 101, 101A, AND 101B.
- 8 EXISTING PANEL REUSED.
- 9 MOUNT LIGHT SWITCH IN EXISTING OUTLET BOX SAVED DURING DEMOLITION.



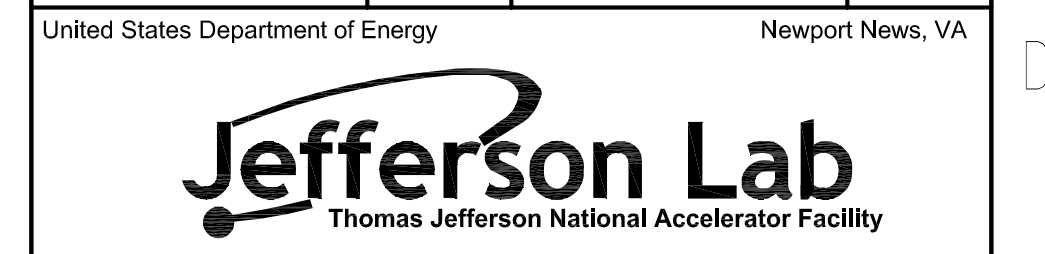
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PROJECT NUMBER: 1301

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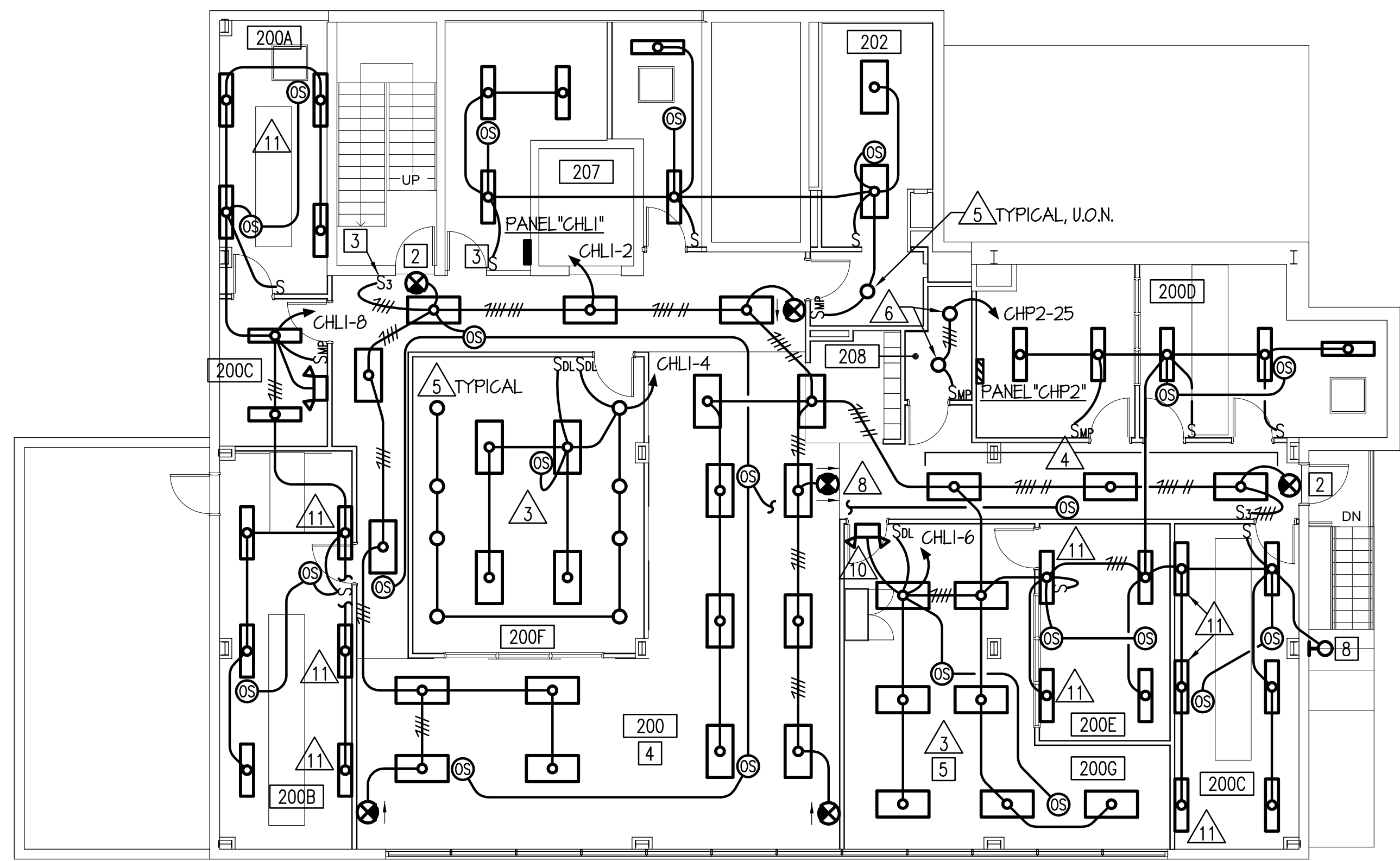
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FIRST FLOOR PLAN - NEW WORK - LIGHTING - ADD
ALTERNATE NO. 1

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.4	



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SECOND FLOOR PLAN - NEW WORK - LIGHTING - ADD ALTERNATE NO.5

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

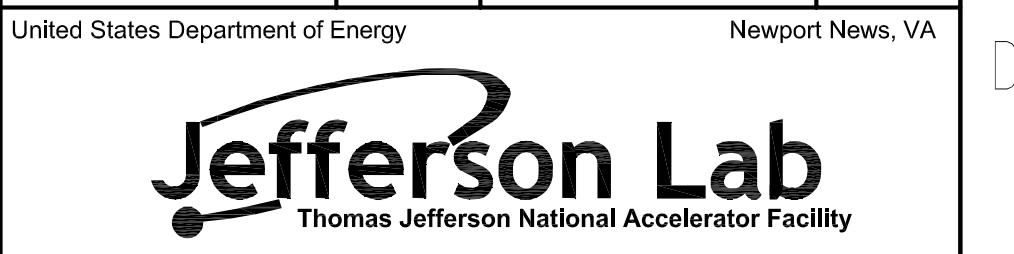
NEW WORK NOTES: (THIS SHEET ONLY)

- 1 ALL EXIT LIGHTING FIXTURES ARE TYPE "1", U.O.N.
- 2 MOUNT EXIT LIGHT FIXTURE ON EXISTING OUTLET BOX. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT SAVED DURING DEMOLITION.
- 3 MOUNT LIGHT SWITCH IN EXISTING OUTLET BOX SAVED DURING DEMOLITION. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT SAVED DURING DEMOLITION.
- 4 INTERLOCK ALL CEILING MOUNTED OCCUPANCY SENSORS IN ROOM 200.
- 5 INTERLOCK ALL CEILING MOUNTED OCCUPANCY SENSORS IN THIS ROOM.
- 6 EXISTING PANEL REUSED.
- 7 ALL 1' X 4' LIGHTING FIXTURE ARE TYPE "1", U.O.N.
- 8 EXISTING LIGHTING FIXTURE REUSED. CONNECT TO INDICATED CIRCUIT.

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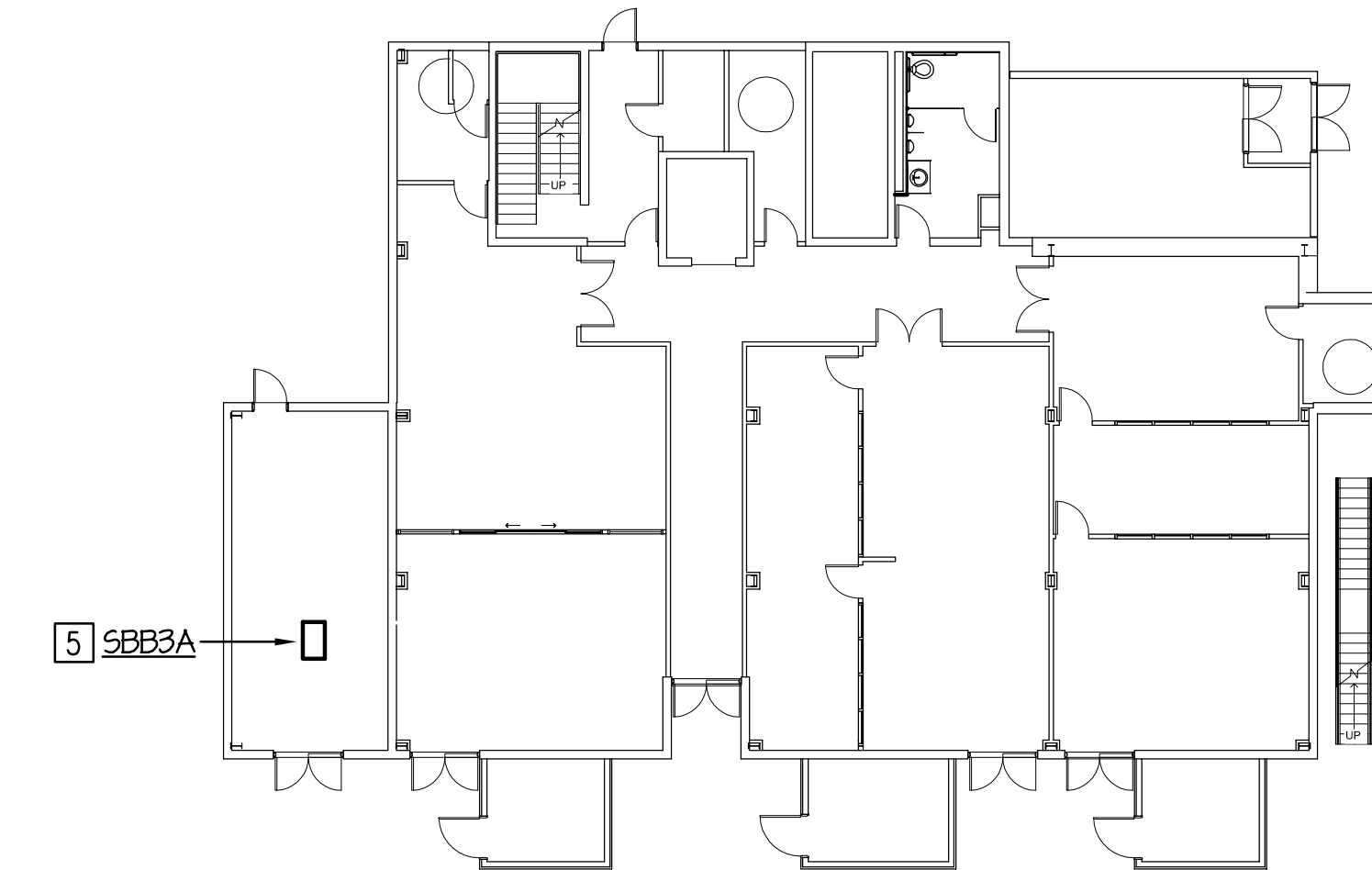
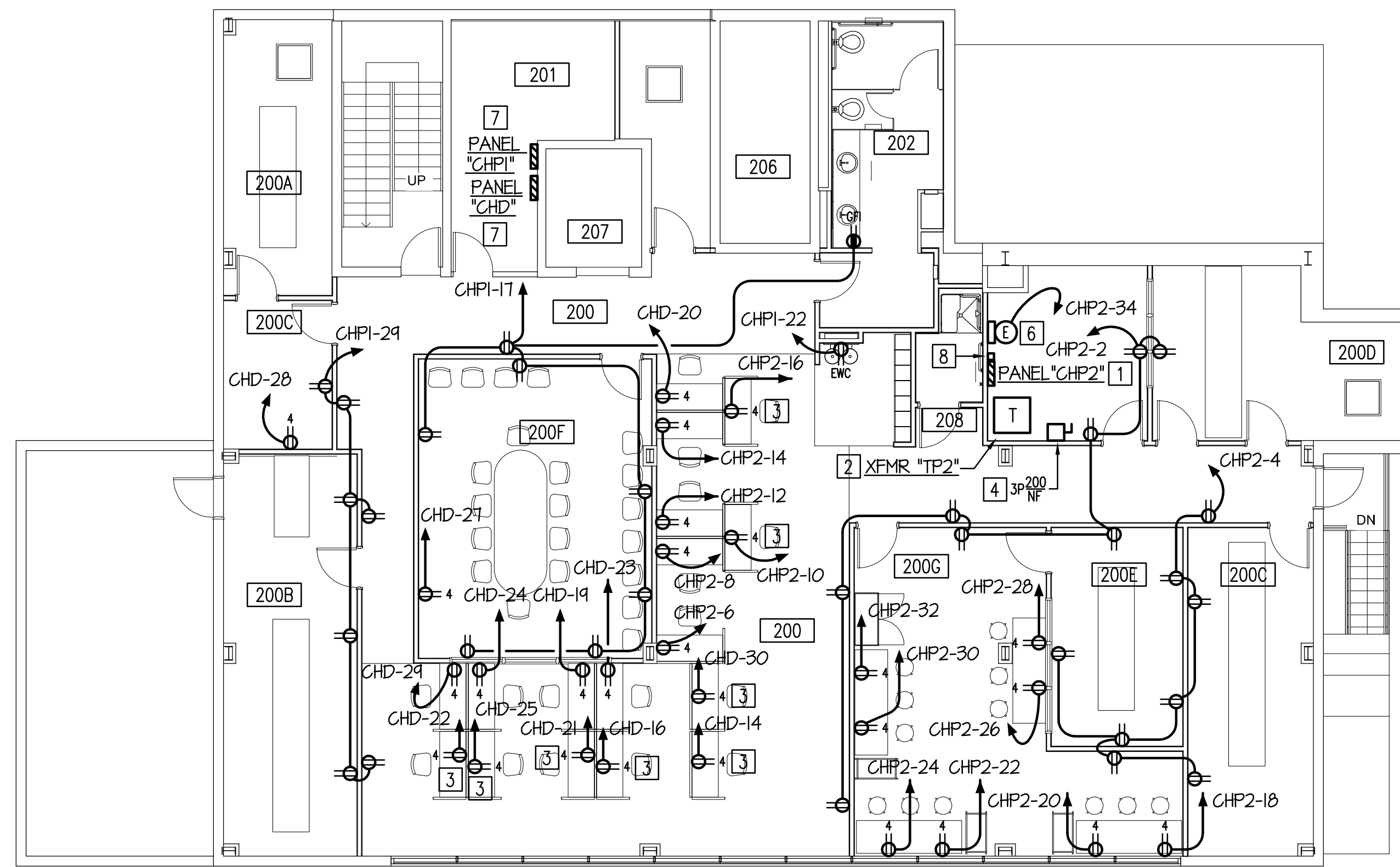
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SECOND FLOOR PLAN - NEW WORK - LIGHTING -
ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.5	



SECOND FLOOR PLAN - NEW WORK - POWER - ADD ALTERNATE NO.5

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 PROVIDE NEW PANEL. REFER TO PANELBOARD SCHEDULE ON DRAWING SHEET E2.10 FOR ADDITIONAL INFORMATION. PROVIDE 5 #3/0 AND 1 #6 GROUND IN 2-1/2" CONDUIT BETWEEN THIS PANEL AND NEW TRANSFORMER "TP2".
- 2 NEW TRANSFORMER "TP2". PROVIDE 75 KVA, K4 RATED, 480V-DELTA PRIMARY, 208Y/120V-WYE SECONDARY DRY TYPE TRANSFORMER. PROVIDE #4 GROUNDING ELECTRODE TO BUILDING STEEL. PROVIDE 4" CONCRETE HOUSEKEEPING PAD. EXCEED DIMENSIONS OF EQUIPMENT BY 4" ON ALL SIDES. CHAMFER ALL EXPOSED EDGES
- 3 MOUNT RECEPTACLE IN CASEWORK. FINAL LOCATION TO BE FIELD VERIFIED BY ARCHITECT. RUN BRANCH CIRCUIT CONDUIT AND CONDUCTORS CONCEALED INSIDE CASEWORK AND NEW WALL AND TERMINATE IN INDICATED PANEL.
- 4 PROVIDE 3 #3 AND 1 #8 GROUND IN 1-1/4" CONDUIT BETWEEN DISCONNECT SWITCH AND TRANSFORMER "TP2". PROVIDE 3 #3 AND 1 #8 GROUND IN 1-1/4" CONDUIT BETWEEN DISCONNECT SWITCH AND NEW 100-AMP, 3-POLE CIRCUIT BREAKER IN SWITCHBOARD "SBB3A". REFER TO "FIRST FLOOR PLAN - NEW WORK - POWER - ADD ALTERNATE NO.5" ON THIS SHEET FOR LOCATION OF SWITCHBOARD "SBB3A". INSTALL HOMERUN CONDUIT CONCEALED ABOVE FIRST FLOOR CEILING.
- 5 EXISTING 2000-AMP, 408Y/277-VOLT, 3-PHASE, 4-WIRE, 50 KAIC, GE "AVI" SERIES SWITCHBOARD "SBB3A". PROVIDE TWO 100-AMP, 3-POLE CIRCUIT BREAKERS. MOUNT IN EXISTING 3-POLE SPACES.
- 6 PROVIDE ELECTRICAL CONNECTION TO FIRE ALARM AUXILIARY POWER SUPPLY PANEL.
- 7 EXISTING PANEL REUSED.
- 8 PROVIDE DISTRIBUTION PANEL SURGE PROTECTION DEVICE "SPD" IN ACCORDANCE WITH SPECIFICATION SECTION 264313. PROVIDE 2 #10 & 1 #10 GND. IN 1/2" CONDUIT. CONNECT DEVICE TO CIRCUIT BREAKER INDICATED IN PANEL "CHP2".

**FIRST FLOOR PLAN - NEW WORK - POWER
ADD ALTERNATE NO.5**

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



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FIRST AND SECOND FLOOR PLANS - NEW WORK - POWER - ADD ALTERNATE 5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.6	

1 2 3 4 5 6

A

B

C

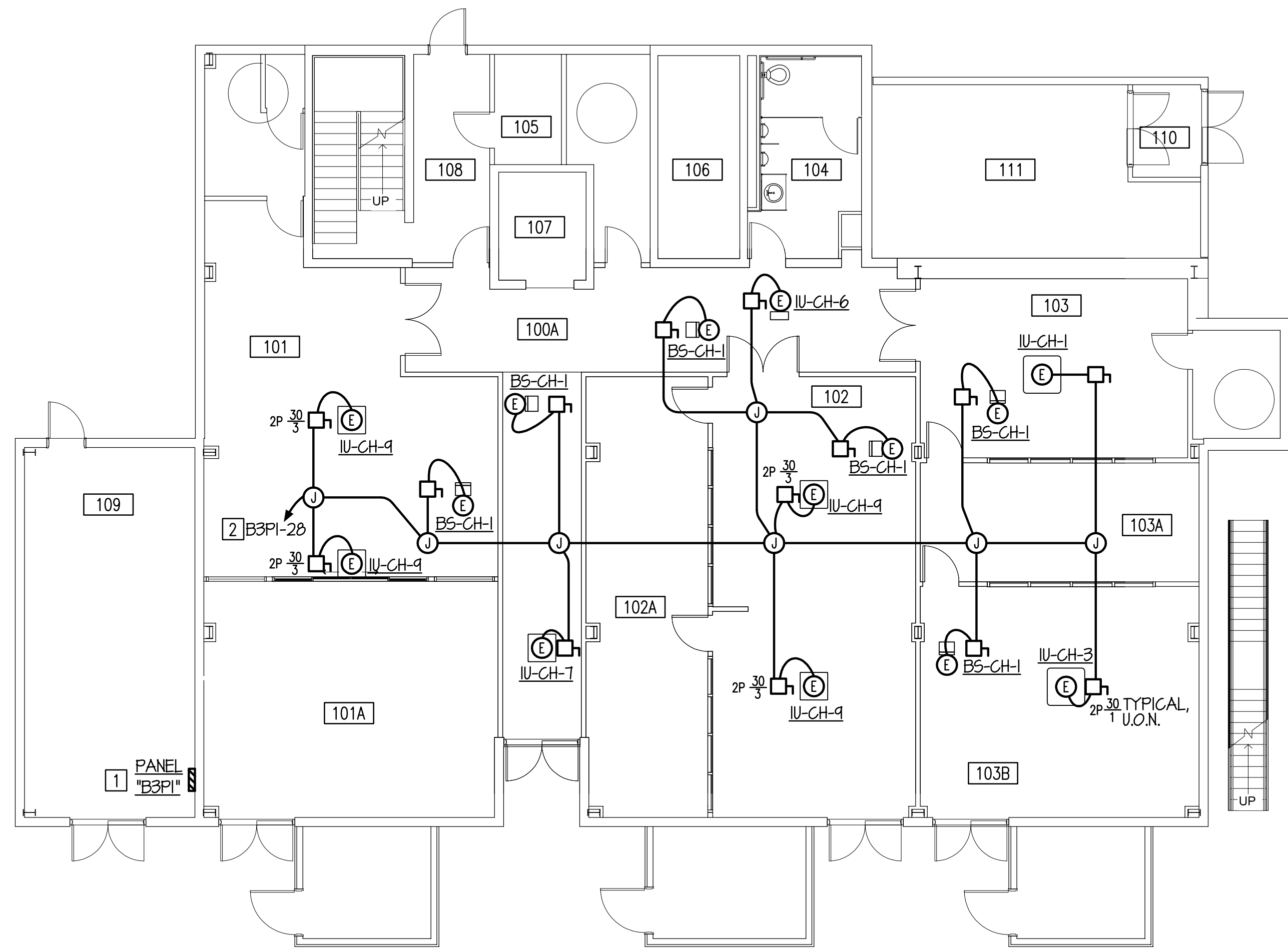
D

A

B

C

D



FIRST FLOOR PLAN - NEW WORK - HVAC POWER - ADD ALTERNATE NO.5

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 EXISTING PANEL TO REMAIN. PROVIDE ONE (1) 20-AMP, 2-POLE CIRCUIT BREAKER. MOUNT IN 2-POLE SPACE #28. PANEL "B3PI" IS 100-AMP, 208Y/120-VOLT, 3-PHASE, 4-WIRE, GE "A" SERIES.
- 2 TERMINATE IN NEW 20-AMP, 2-POLE CIRCUIT BREAKER PROVIDED BY NEW WORK NOTE #1.

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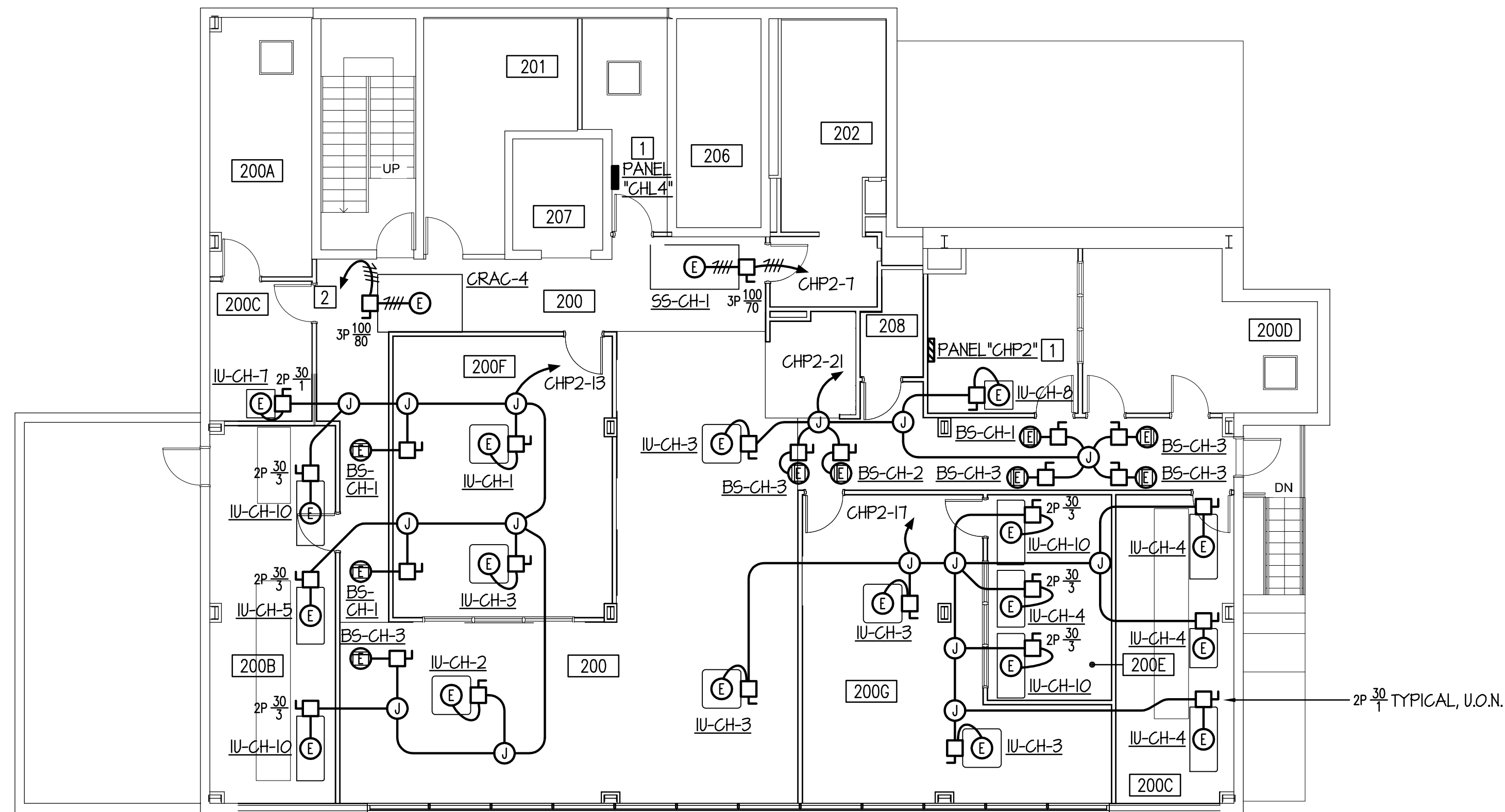
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FIRST FLOOR PLAN - NEW WORK - HVAC POWER -
ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.7	

1 2 3 4 5 6



SECOND FLOOR PLAN - NEW WORK - HVAC POWER - ADD ALTERNATE NO.5

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1] PROVIDE NEW PANEL. REFER TO PANELBOARD SCHEDULE ON THIS DRAWING SHEET E2.10 FOR ADDITIONAL INFORMATION.
- 2] PROVIDE 3 #3 AND 1 #8 GROUND IN 1-1/4" CONDUIT. TERMINATE AT EXISTING SWITCHBOARD "SBB3A", NEW 100-AMP, 3-POLE CIRCUIT BREAKER PROVIDE BY NEW WORK NOTE 5 ON DRAWING SHEET E2.6



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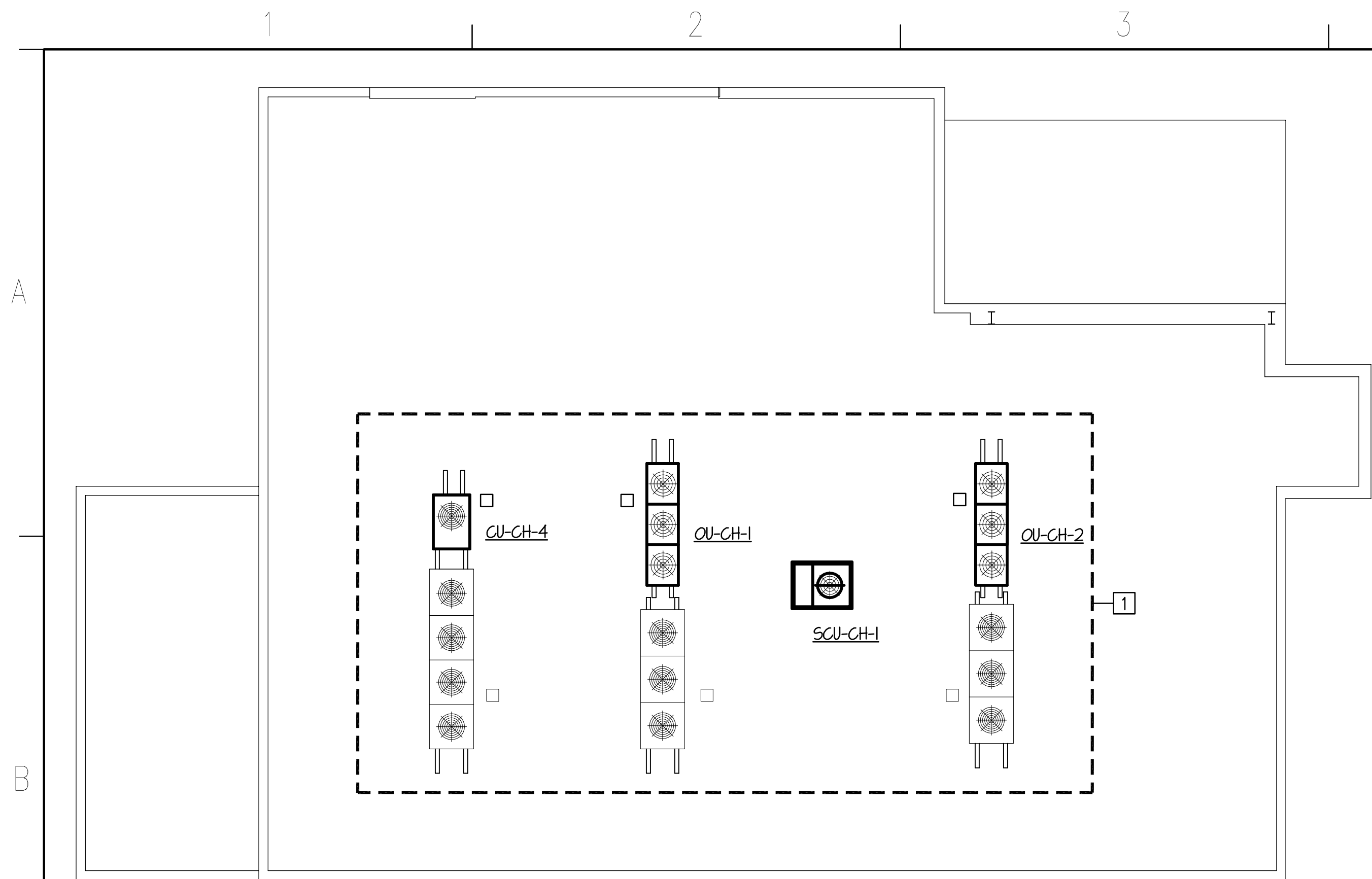
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SECOND FLOOR PLAN - NEW WORK - HVAC POWER
- ADD ALTERNATE NO.5

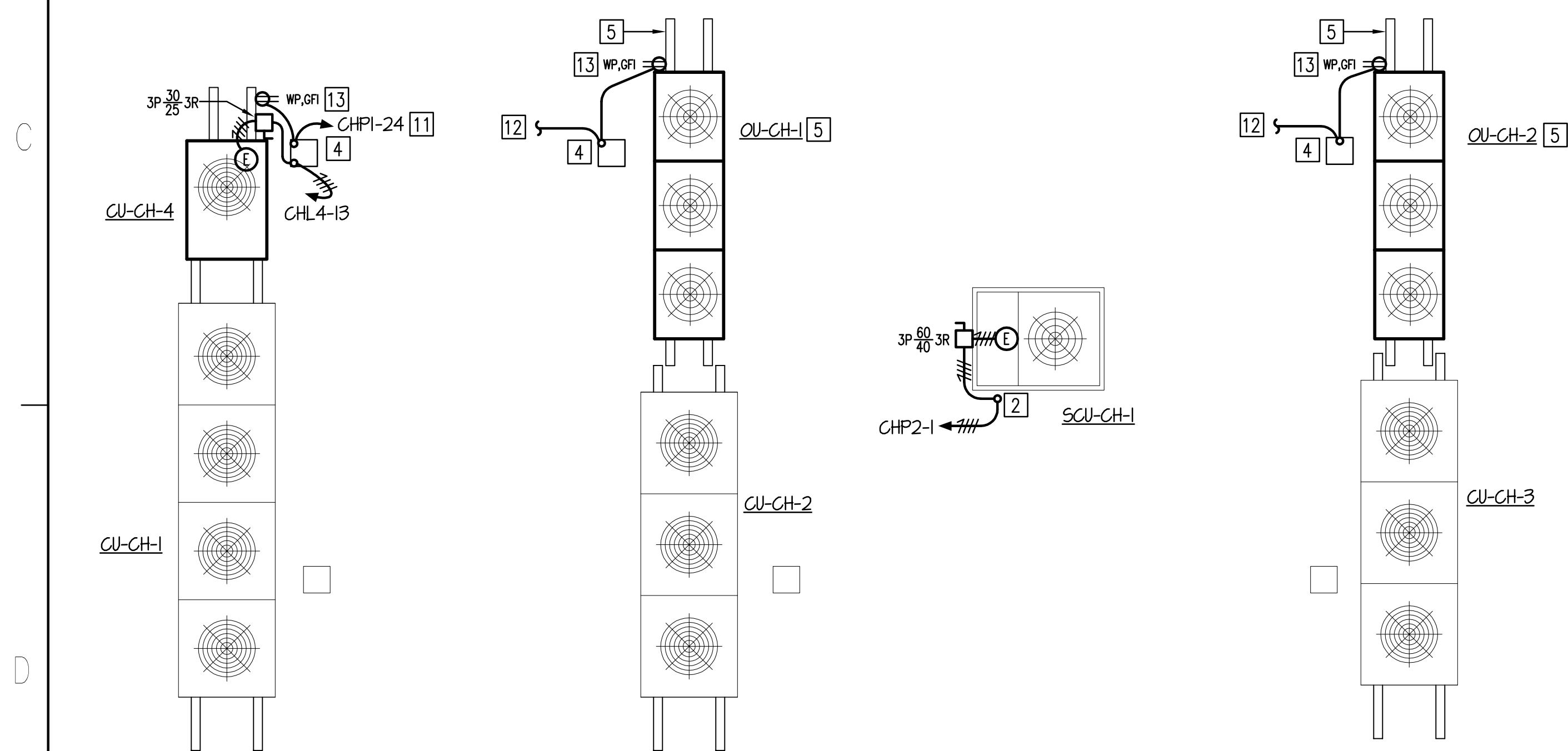
SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.8	



- NEW WORK NOTES:** (THIS SHEET ONLY)
- 1 REFER TO "ENLARGED PLAN - HVAC POWER - ADD ALTERNATE NO.5" ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - 2 USE EXISTING 1" CONDUIT SLEEVE PROVIDED UNDER BASE BID.
 - 3 REFER TO DRAWING SHEET E2.8 FOR LOCATION OF PANEL "CHP2" AND "CHL4".
 - 4 EXISTING PIPE/CONDUIT PORTAL PROVIDED UNDER BASE BID.
 - 5 REFER TO "DISCONNECT SWITCHES MOUNTING DETAIL" ON THIS SHEET FOR ELECTRICAL CONNECTIONS TO CH-OU-2 AND CH-OU-3.
 - 6 PROVIDE 3 #3 AND 1 #8 GROUND IN 1-1/4" CONDUIT. TERMINATE AT INDICATED PANEL VIA EXISTING 1-1/4" CONDUIT SLEEVE PORTAL PROVIDED UNDER BASE BID.
 - 7 PROVIDE 3 #3 AND 1 #8 GROUND IN 1-1/4" CONDUIT.
 - 8 PROVIDE NEMA 3R WIRING TROUGH.
 - 9 PROVIDE 3 #10 AND 1 #10 GROUND IN 1/2" CONDUIT.
 - 10 MOUNT DISCONNECT SWITCHES AND WIRING TROUGH ON CONDENSING UNIT SUPPORT RAILING SYSTEM USING SUPERSTRUT A-1200-5 CHANNEL OR APPROVED EQUAL.
 - 11 TERMINATE HOMERUN AT EXISTING PANEL "CHPI", SPARE 20-AMP, 1 POLE CIRCUIT BREAKER #24 VIA EXISTING 1/2" CONDUIT SLEEVE PORTAL PROVIDED UNDER BASE BID.
 - 12 CONNECT TO HOMERUN "CHPI-24" VIA EXISTING 1/2" CONDUIT SLEEVE PORTAL PROVIDED UNDER BASE BID.
 - 13 MOUNT RECEPTACLE ON CONDENSING UNIT SUPPORT RAILING SYSTEM.

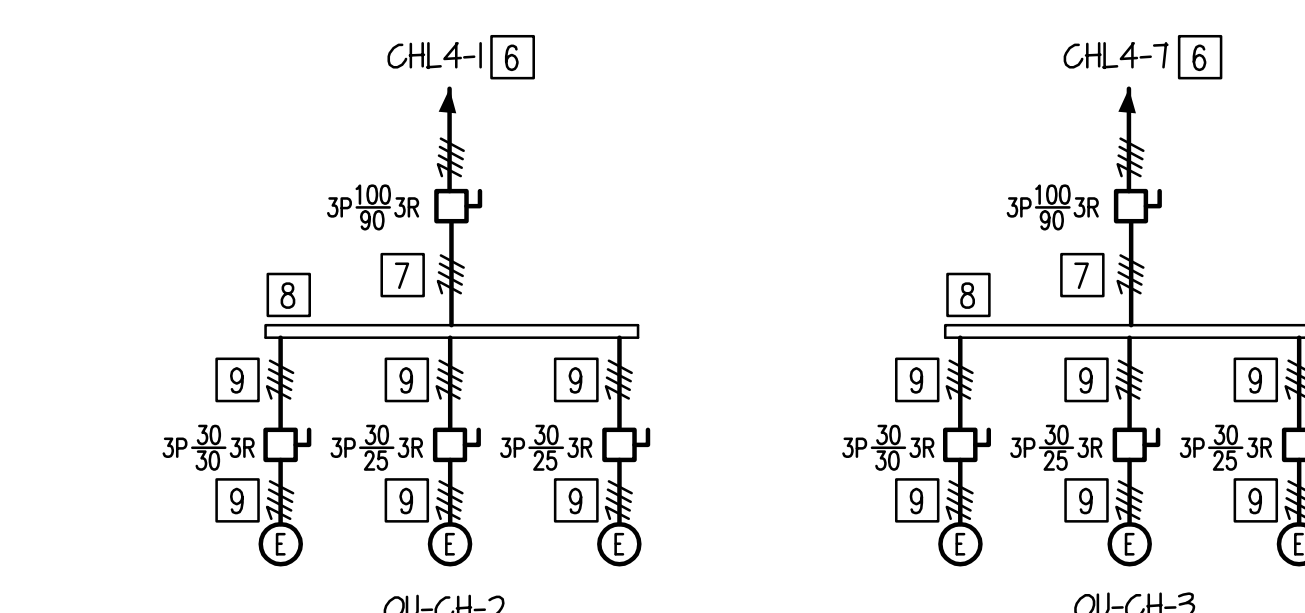
ROOF PLAN - HVAC POWER - ADD ALTERNATE NO.5

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



ENLARGED PLAN - HVAC POWER - ADD ALTERNATE NO.5

SCALE: 1/4" = 1'-0"



DISCONNECT SWITCHES MOUNTING DETAIL

NO TO SCALE



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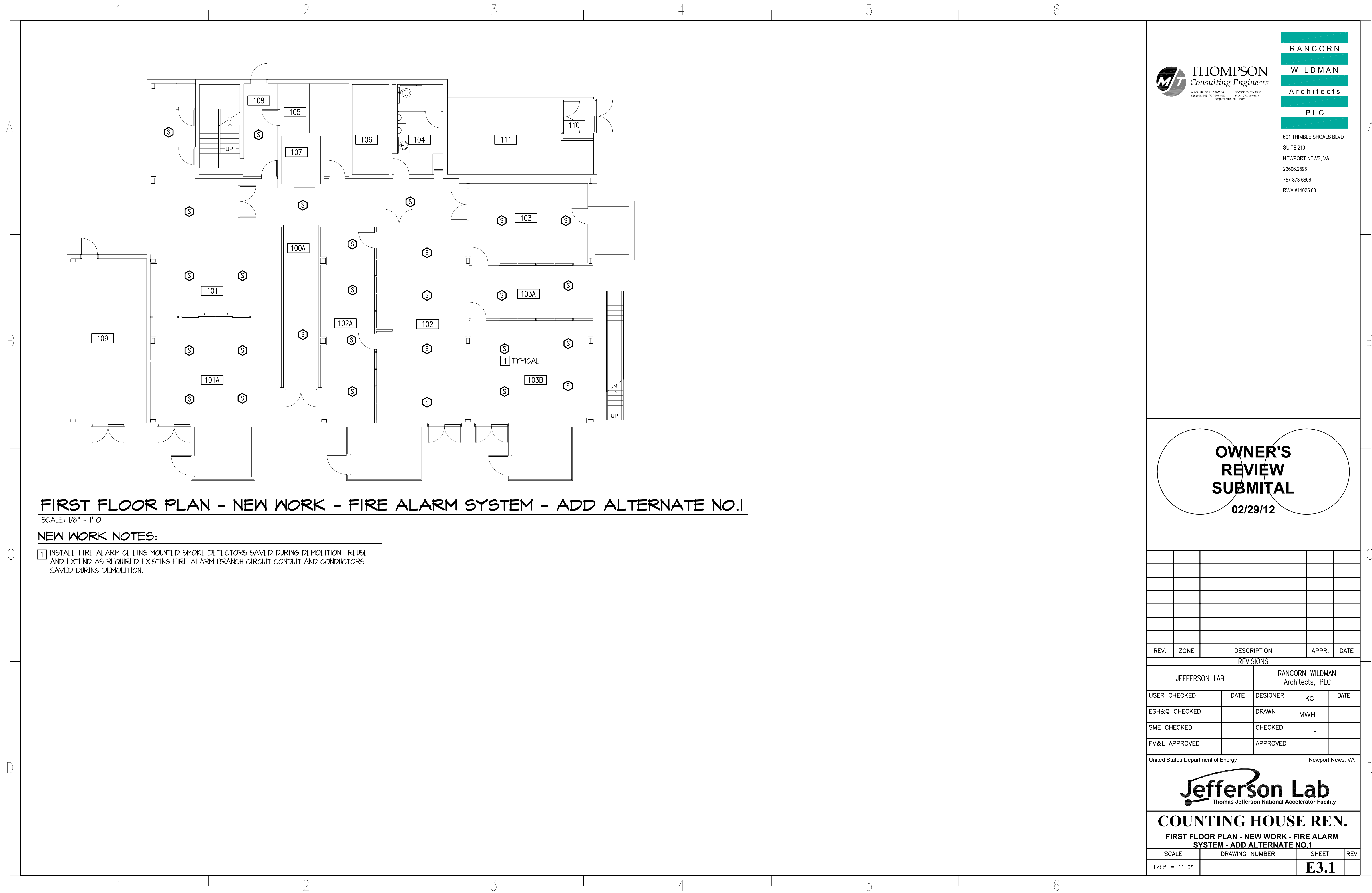
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ROOF PLAN - HVAC POWER - ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E2.9	



FIRST FLOOR PLAN - NEW WORK - FIRE ALARM SYSTEM - ADD ALTERNATE NO.1

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

NEW WORK NOTES:

- 1 INSTALL FIRE ALARM CEILING MOUNTED SMOKE DETECTORS SAVED DURING DEMOLITION. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION.



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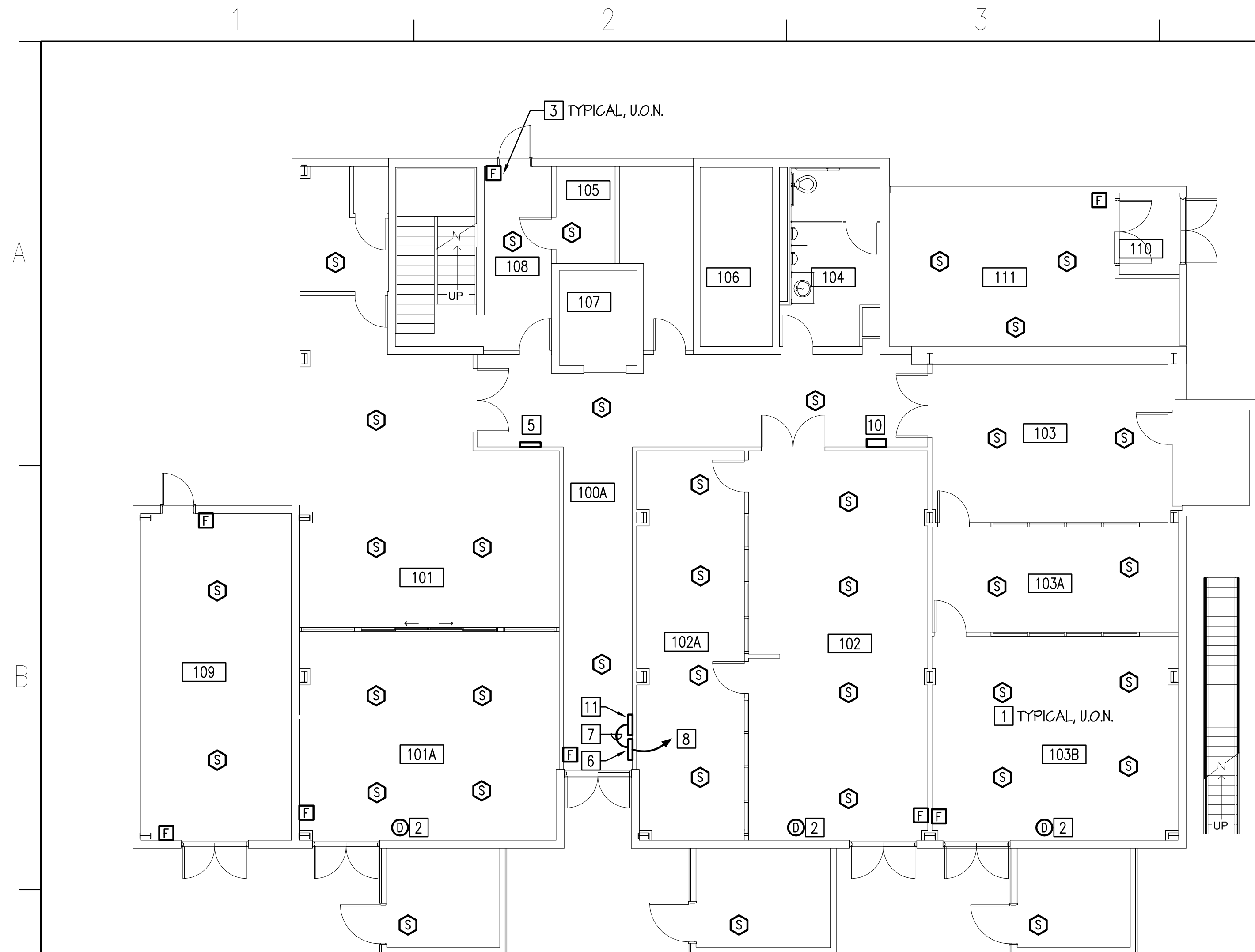
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FIRST FLOOR PLAN - NEW WORK - FIRE ALARM SYSTEM - ADD ALTERNATE NO.1

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E3.1	

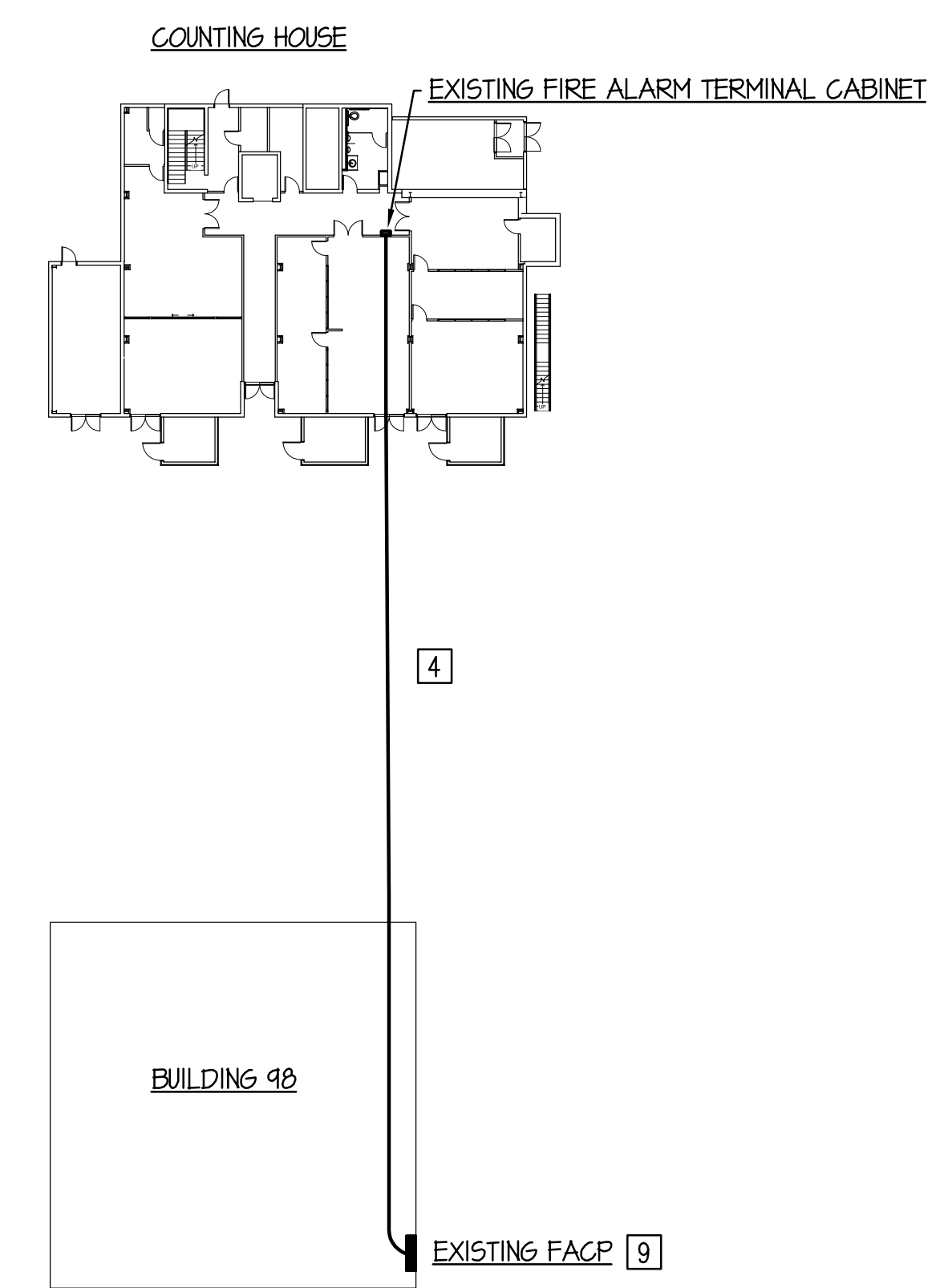


FIRST FLOOR PLAN - NEW WORK - FIRE ALARM SYSTEM - ADD ALTERNATE NO.2

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

NEW WORK NOTES:

- 1] PROVIDE NEW CEILING MOUNTED FIRE ALARM SMOKE DETECTOR, SIEMENS "FP-11". REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO NEW SMOKE DETECTOR.
- 2] PROVIDE NEW FIRE ALARM DUCT SMOKE DETECTOR, SIEMENS "AD2-XHR" WITH SAMPLING TUBES. MOUNT IN RETURN AIR DUCT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION. PROVIDE FIRE ALARM CABLE (2-CONDUCTOR, 18-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE) IN 1/2" CONDUIT. TERMINATE AT EXISTING FIRE ALARM TERMINAL CABINET.
- 3] PROVIDE NEW FIRE ALARM FULL STATION, SIEMENS "MS1-20B". MOUNT ON EXISTING OUTLET BOX AND CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION.
- 4] REMOVE EXISTING FIRE ALARM CABLES (BETWEEN EXISTING FIRE ALARM TERMINAL CABINET AND EXISTING SIEMENS "MXL" FIRE ALARM CONTROL PANEL) AND SAVE FOR REUSE. REINSTALL CABLES ALONG WITH THE NEW FIRE ALARM CABLES INDICATED BY NEW WORK NOTE 8 IN EXISTING UNDERGROUND CONDUIT.
- 5] PROVIDE JUNCTION BOX WITH BLANK COVERPLATE TO SPLICE AND EXTEND EXISTING FIRE ALARM GRAPHIC ANNUNCIATOR BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO GRAPHIC ANNUNCIATOR PANEL INDICATED BY NEW WORK NOTE 6. PAINT JUNCTION BOX TO MATCH WALL COLOR. PROVIDE THREE INTELLIGENT RELAY MODULES (SIEMENS "TRI-R") FOR HALL "A", "B" AND "C" FIRE ALARM REMOTE ANNUNCIATOR STATIONS. MOUNT EACH RELAY IN A JUNCTION BOX ABOVE CEILING. CONNECT RELAYS TO NEW "MOD-16" CARD PROVIDED BY NEW WORK NOTE 6.
- 6] LOCATE EXISTING FIRE ALARM GRAPHIC ANNUNCIATOR PANEL ON THIS WALL. REMOVE EXISTING "PAX-3" BOARD AND REPLACE WITH ONE SIEMENS "MO1-1" MODULE, ONE SIEMENS "PS-5A" POWER SUPPLY MODULE AND TWO SIEMENS "MOD-16" BOARDS. MOUNT NEW EQUIPMENT INSIDE EXISTING GRAPHIC ANNUNCIATOR PANEL USING STAND-OFFS MOUNTED TO EXISTING BACKPLATE. ALL RESISTORS CURRENTLY WIRED TO THE LED'S NEED TO BE REMOVED FOR PROPER "MOD-16" OPERATION.
- 7] PROVIDE 2" CONDUIT WITH TWO FIRE ALARM CABLES (ONE 24-VOLT, 2-CONDUCTOR, 14-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE AND ONE M-NET, 2-CONDUCTOR, 18-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE).
- 8] PROVIDE 1" CONDUIT WITH TWO FIRE ALARM CABLES (ONE 24-VOLT, 2-CONDUCTOR, 14-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE AND ONE M-NET, 2-CONDUCTOR, 18-AWG, TWISTED, SHIELDED, SOLID COPPER, PLENUM AND "FPLR" RATED CABLE). TERMINATE CONDUIT AT EXISTING FIRE ALARM TERMINAL CABINET INDICATED BY NEW WORK NOTE 10. TERMINATE FIRE ALARM CABLES AT EXISTING SIEMENS "MXL" FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 98.
- 9] EXISTING SIEMENS "MXL" FIRE ALARM CONTROL PANEL REUSED. REMOVE AND REPLACE "XLD-1" CARD SERVING FIRE ALARM LOOPS 51, 52, 53 AND 54 WITH A SIEMENS "ALD-21" CARD. ADDRESSES FOR THE NEW "ALD-21" CARD WILL BE 51 AND 52. PROGRAMING OF THE FIRE ALARM CONTROL PANEL WILL BE DONE BY "BFFE INTERNATIONAL", INCLUDING NCC GRAPHICS COMPUTERS.
- 10] EXISTING FIRE ALARM TERMINAL CABINET. REFER TO "PARTIAL SITE PLAN - ADD ALTERNATE NO.2" ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 11] PROVIDE NEW REMOTE COMMAND CENTER PANEL, SIEMENS "RCC-1".



PARTIAL SITE PLAN - ADD ALTERNATE NO.2

SCALE: 1/32" = 1'-0"

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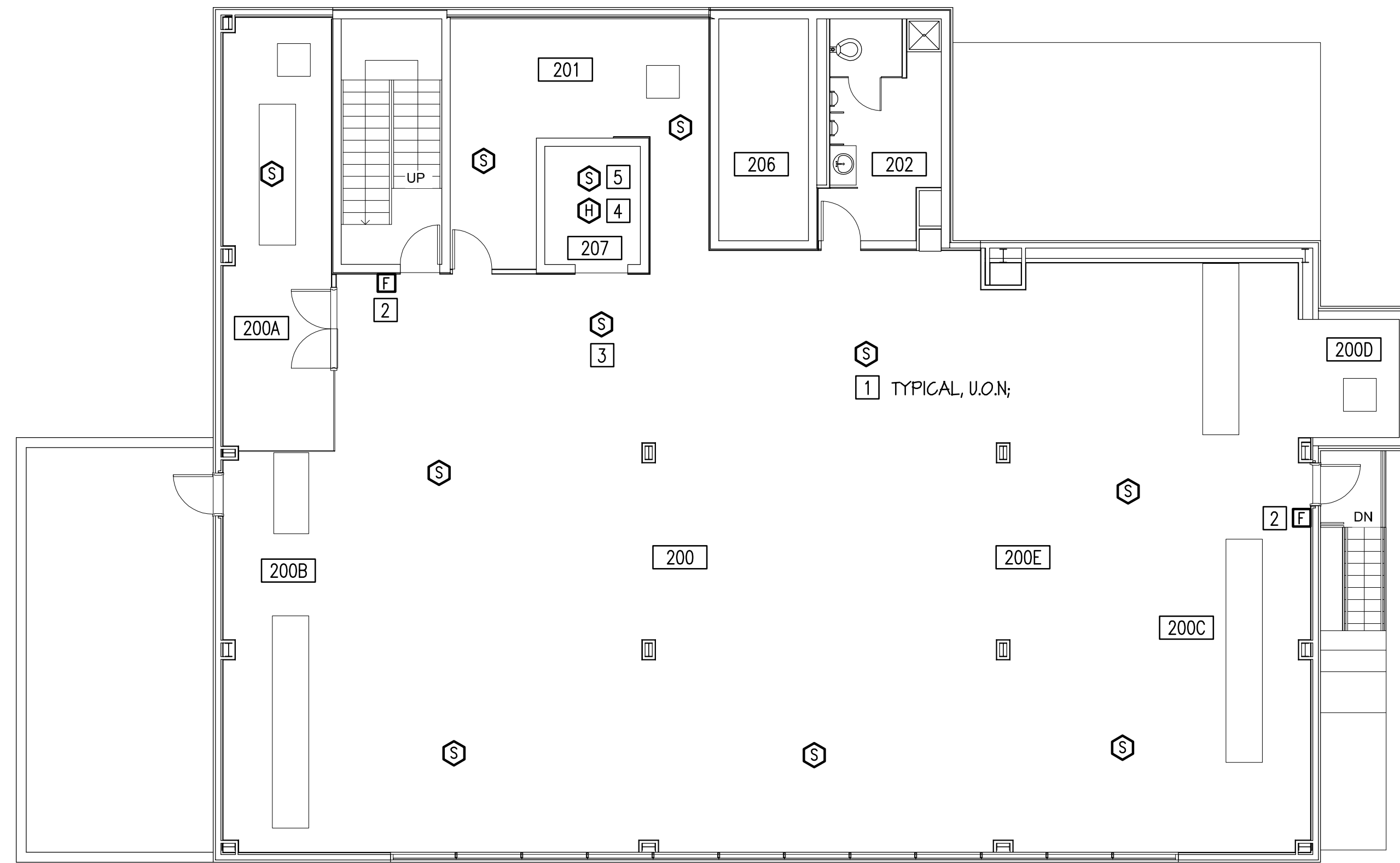
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**FIRST FLOOR PLAN - NEW WORK - FIRE ALARM
SYSTEM - ADD ALTERNATE NO.2**

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E3.2	



**SECOND FLOOR PLAN - NEW WORK - FIRE ALARM SYSTEM
- ADD ALTERNATE NO.2**

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

NEW WORK NOTES:

- 1 PROVIDE NEW CEILING MOUNTED FIRE ALARM SMOKE DETECTOR, SIEMENS "FP-II". REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO NEW SMOKE DETECTOR.
- 2 PROVIDE NEW FIRE ALARM PULL STATION, SIEMENS "MSI-20B". MOUNT ON EXISTING OUTLET BOX AND CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION.
- 3 PROVIDE NEW CEILING MOUNTED ELEVATOR FIRE ALARM SMOKE DETECTOR, SIEMENS "FP-II". REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO NEW SMOKE DETECTOR.
- 4 PROVIDE NEW CEILING FIRE ALARM HEAT DETECTOR, SIEMENS "FPT-II". MOUNT IN ELEVATOR SHAFT. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO NEW HEAT DETECTOR.
- 5 PROVIDE NEW CEILING FIRE ALARM SMOKE DETECTOR, SIEMENS "PT-II". MOUNT IN ELEVATOR SHAFT. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO NEW SMOKE DETECTOR.



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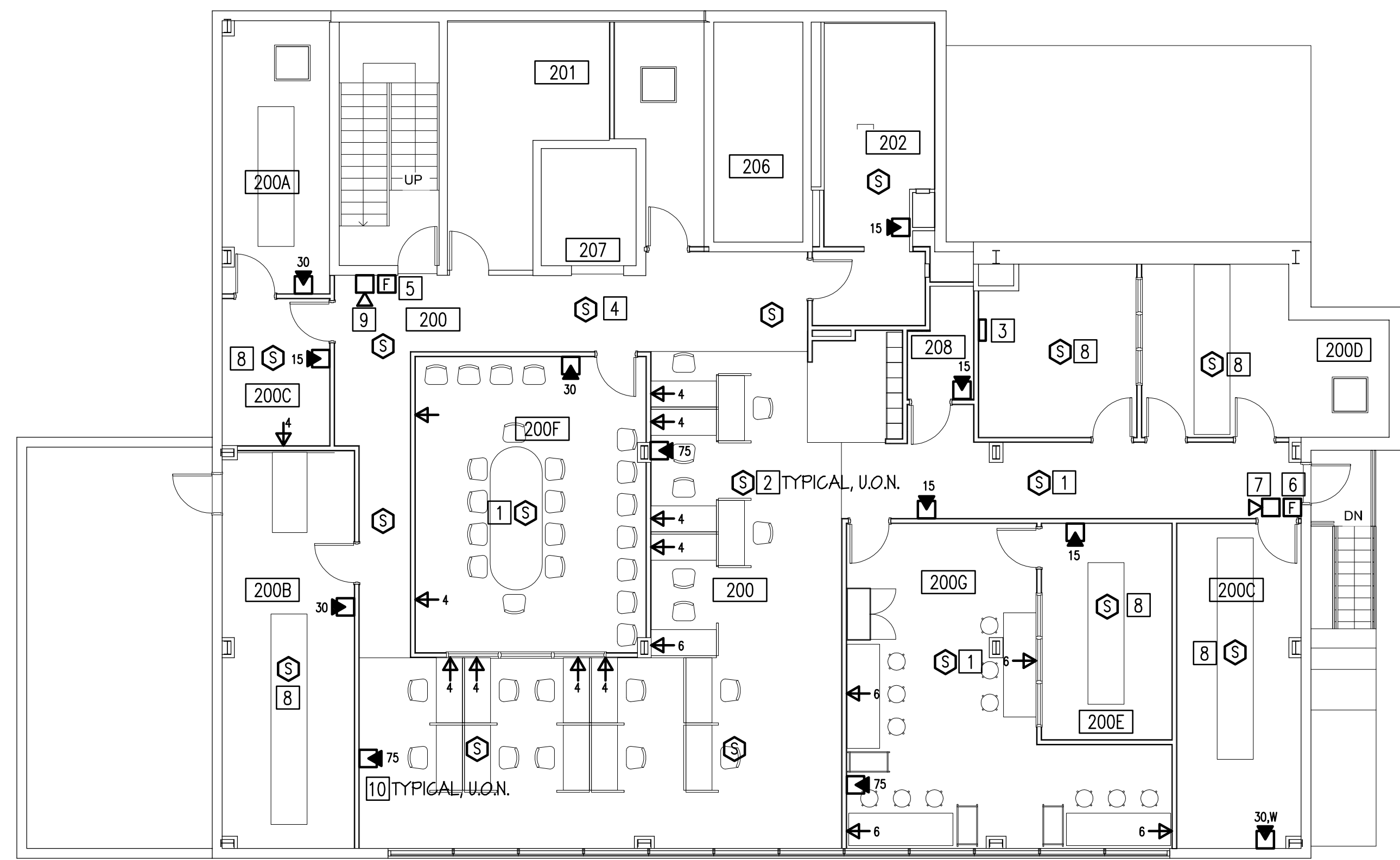
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SECOND FLOOR PLAN - NEW WORK - FIRE ALARM SYSTEM - ADD ALTERNATE NO.2

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E3.3	

1 2 3 4 5 6



**SECOND FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS
- ADD ALTERNATE NO.5**

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

NEW WORK NOTES: (THIS SHEET ONLY)

- 1 PROVIDE NEW CEILING MOUNTED FIRE ALARM SMOKE DETECTOR, SIEMENS "FP-II". REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO SMOKE DETECTOR.
- 2 REINSTALL EXISTING FIRE ALARM SMOKE DETECTOR SAVED DURING DEMOLITION. MOUNT ON NEW CEILING. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO SMOKE DETECTOR.
- 3 PROVIDE FIRE ALARM AUXILIARY POWER SUPPLY PANEL, SIEMENS "PAD 3". CONNECT ALL NEW FIRE ALARM VISUAL DEVICES TO THE PANEL. CONNECT "PAD 3" INPUT SIGNAL TO EXISTING FIRE ALARM BELL/VISUAL DEVICE.
- 4 REINSTALL EXISTING ELEVATOR FIRE ALARM SMOKE DETECTOR SAVED DURING DEMOLITION. MOUNT ON NEW CEILING. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO SMOKE DETECTOR.
- 5 EXISTING FIRE ALARM FULL STATION.
- 6 REINSTALL EXISTING FIRE ALARM FULL STATION SAVED DURING DEMOLITION ON A NEW SURFACE MOUNTED OUTLET BOX, SIEMENS "SB-5R". INSTALL FIRE ALARM CABLES IN SURFACE METAL RACEWAY (WIREMOLD TOO SERIES OR APPROVED EQUAL). CONVERT RACEWAY TO EMT CONDUIT ABOVE CEILING AND CONNECT TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION. PAINT SURFACE METAL RACEWAY TO MATCH WALL COLOR.
- 7 REINSTALL EXISTING FIRE ALARM BELL/VISUAL DEVICE SAVED DURING DEMOLITION IN A SURFACE MOUNTED OUTLET BOX. PROVIDE SURFACE METAL RACEWAY (WIREMOLD TOO SERIES OR APPROVED EQUAL). CONVERT RACEWAY TO EMT CONDUIT ABOVE CEILING. CONNECT THIS DEVICE TO EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION. PAINT RACEWAY TO MATCH WALL COLOR.
- 8 PROVIDE NEW FIRE ALARM SMOKE DETECTOR, SIEMENS "FP-II". MOUNT ON BOTTOM OF UPPER CHORD OF JOIST. REUSE AND EXTEND AS REQUIRED EXISTING FIRE ALARM BRANCH CIRCUIT CONDUIT AND CONDUCTORS SAVED DURING DEMOLITION AND CONNECT TO SMOKE DETECTOR.
- 9 EXISTING FIRE ALARM BELL/VISUAL DEVICE.
- 10 PROVIDE NEW FIRE ALARM VISUAL ONLY DEVICE, SIEMENS "ZR-MG-R". CONNECT TO NEW FIRE ALARM AUXILIARY POWER SUPPLIER PANEL, SIEMENS "PAD3" PROVIDED BY NEW WORK NOTE 3.

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Jefferson Lab
Thomas Jefferson National Accelerator Facility

COUNTING HOUSE REN.
SECOND FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS - ADD ALTERNATE NO.5

SCALE	DRAWING NUMBER	SHEET	REV
1/8" = 1'-0"		E3.4	

1 2 3 4 5 6