



Coastal Plains Engineering, P.A.

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THE VILLAGE AT HUNTER'S RUN

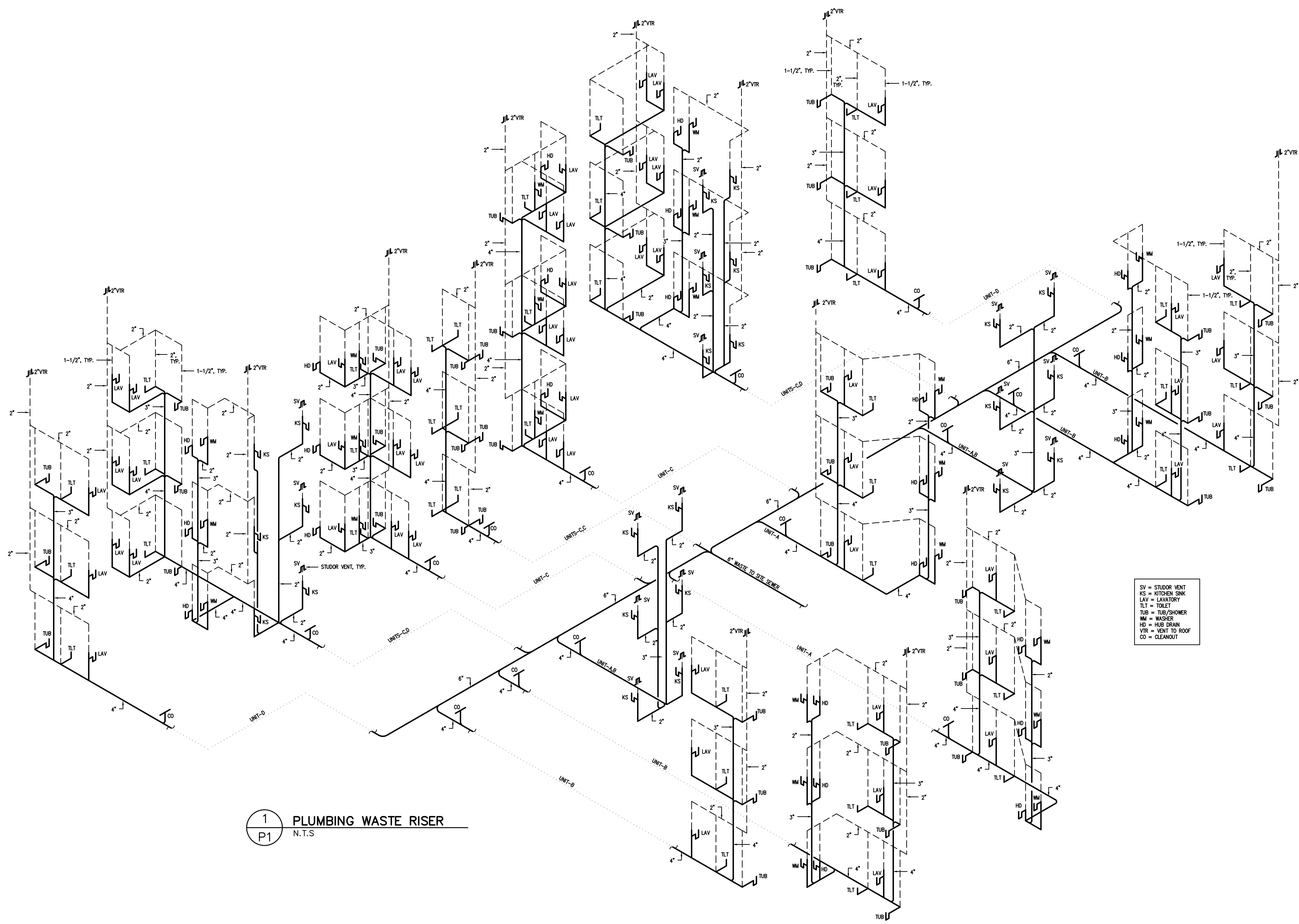
PEMBROKE, NORTH CAROLINA

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PROJECT NO: 2018-039
DRAWN BY: CSL:MJL
DATE: MAR. 2018
REVISIONS:

SHEET NO:
P-1

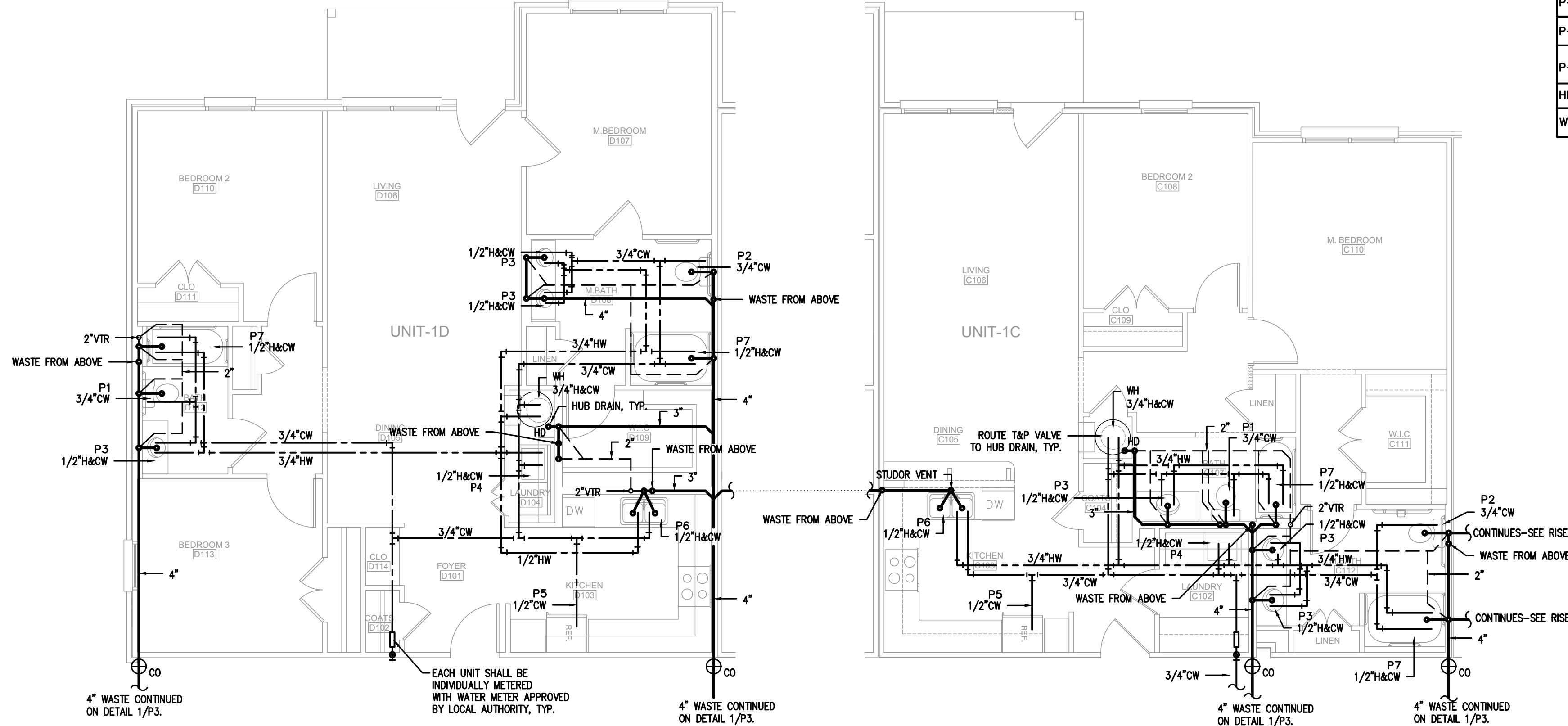


SV = STUDDOR VENT
KS = KITCHEN SINK
LAV = LAVATORY
TLT = TOILET
TUB = TUB/SHOWER
WM = WASHER
HD = HUB DRAIN
VIR = VENT TO ROOF
CO = CLEANOUT

1 PLUMBING WASTE RISER
P1 N.T.S.

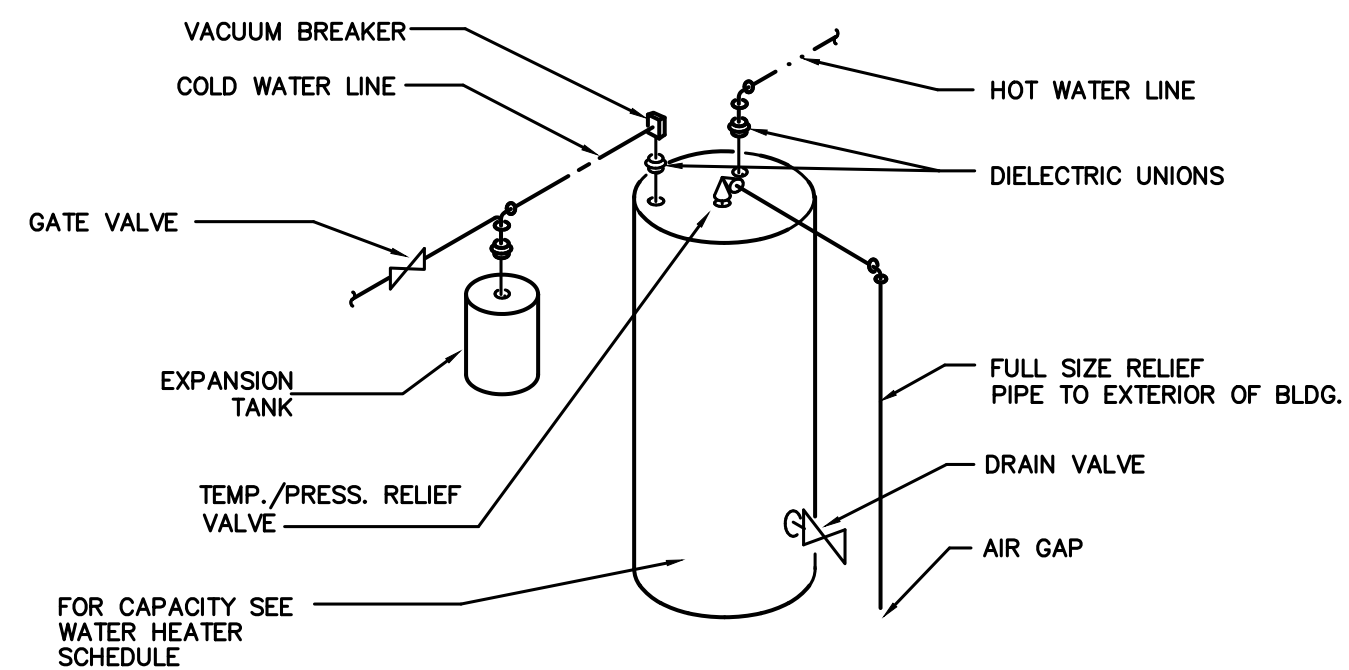


SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	AMERICAN STD.	2898.012	WATER CLOSET (TANK), FLOOR-TYPE	CHURCH 380TL, TOILET SEAT	3/4" C.W.	3"	2"	
P-2	AMERICAN STD.	2998.012	WATER CLOSET (TANK), FLOOR-TYPE HANDICAPPED	CHURCH 380TL, TOILET SEAT	3/4" C.W.	3"	2"	
P-3	AMERICAN STD.	0490.011	OVAL LAVATORY, COUNTER TOP	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-4	OATEY		WASHER SERVICE BOX		1/2" C.W.	2"	1-1/2"	
P-5	OATEY		ICE MAKER SERVICE BOX		1/2" C.W.			
P-6	ELKAY	LR3322	KITCHEN SINK	DELTA MODEL 400 FAUCET, W/SPRAYER	1/2" H.W./C.W.	2"	1-1/2"	
P-7	DELTA	****	SHOWER HEAD	DELTA ****	1/2" H.W./C.W.	2"	1-1/2"	
HB	WOODFORD		HOSE BIB, OUTDOOR FREEZEPROOF	-	1/2" C.W.	-	-	
WH	STATE	EN6-36-DOLS	36 GAL., ELECTRIC 4500W	3/4" T & P RELIEF VALVE	3/4" H.W./C.W.	-	-	SEE PLAN FOR LOCATION LOWBOY WH, 33-1/2" HIGH



1 PLUMBING PLAN - UNIT D
3/16"=1'-0"
P2

2 PLUMBING PLAN - UNIT C
3/16"=1'-0"
P2



6 WATER HEATER DETAIL
P2 N.T.S.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 1/8" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER PIPING SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. PVC/PEX MAY BE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

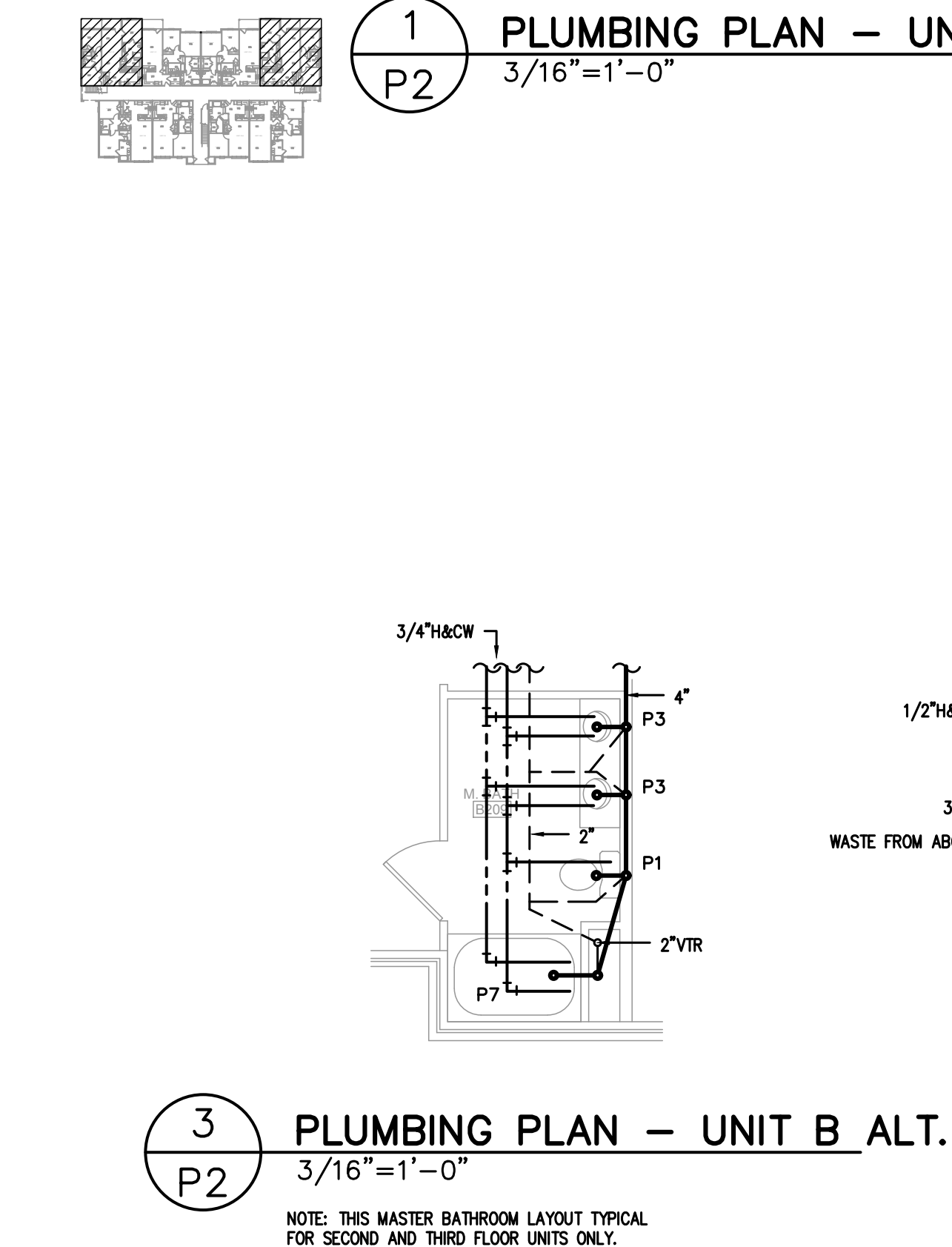
THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

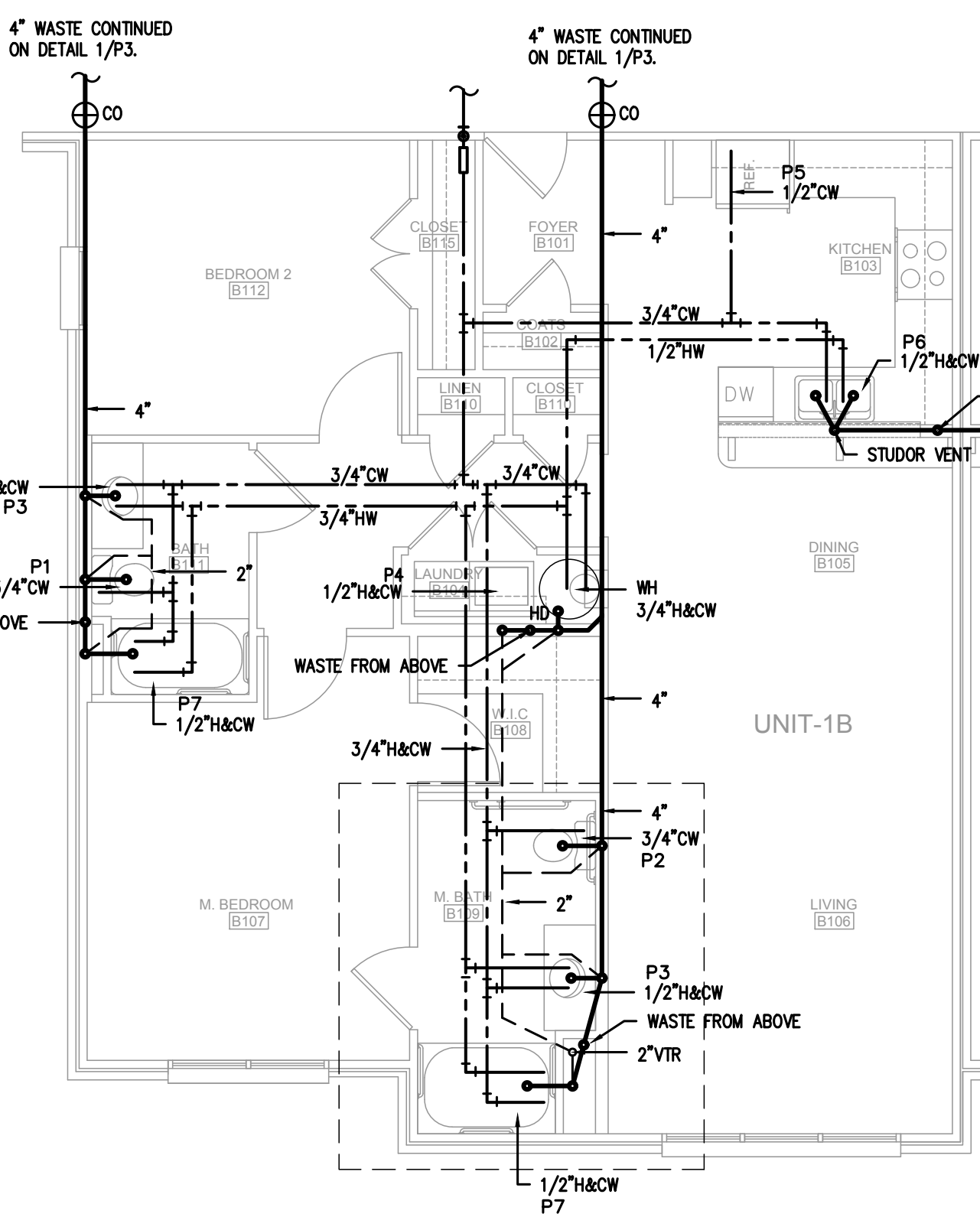
ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.

7 PLUMBING NOTES
P2 N.T.S.

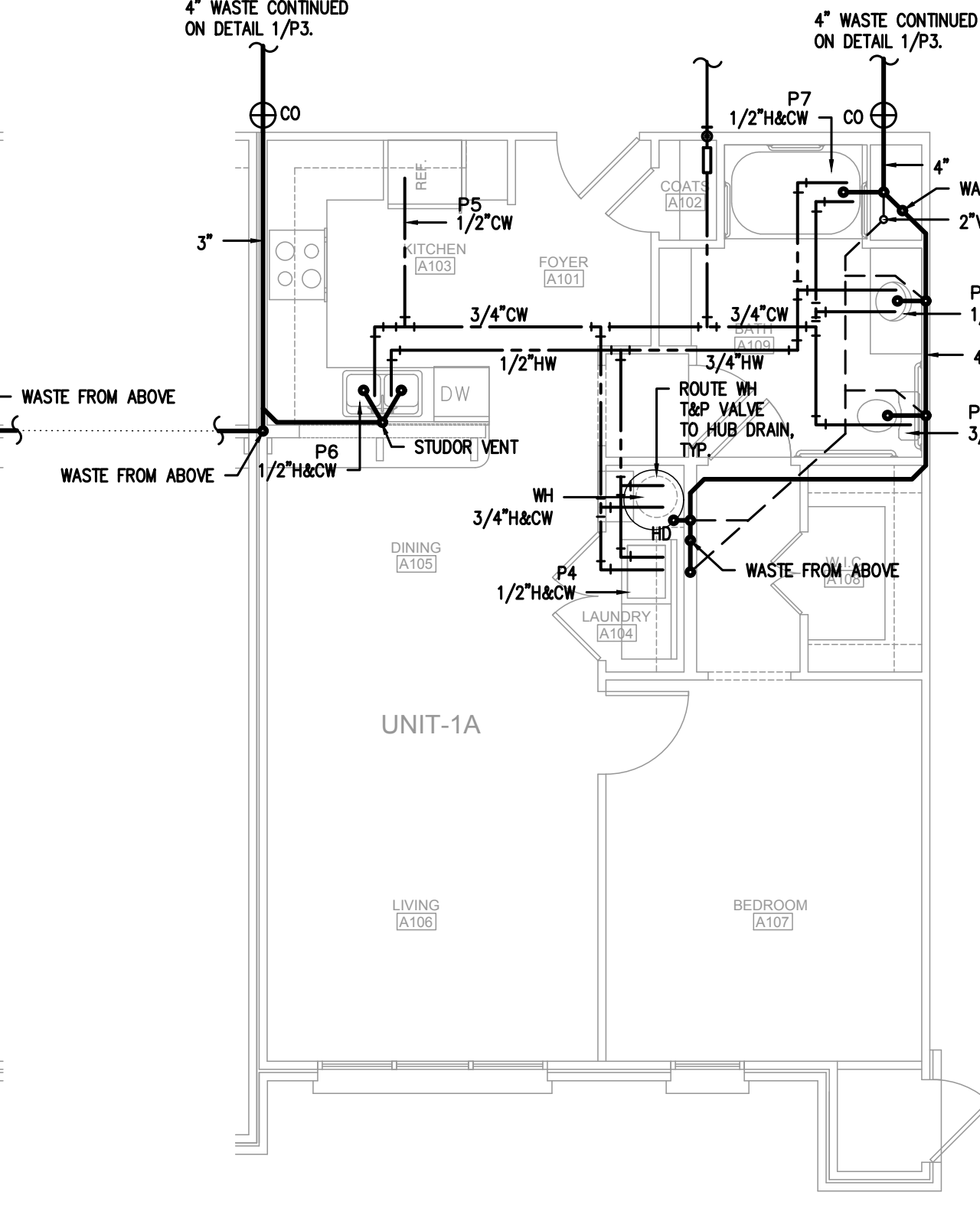
GENERAL PLUMBING SYMBOLS	
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	TEE
	ELBOW
	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
	ROOF DRAIN PIPING



3 PLUMBING PLAN - UNIT B ALT.
3/16"=1'-0"
P2
NOTE: THIS MASTER BATHROOM LAYOUT TYPICAL FOR SECOND AND THIRD FLOOR UNITS ONLY.



4 PLUMBING PLAN - UNIT B
3/16"=1'-0"
P2



5 PLUMBING PLAN - UNIT A
3/16"=1'-0"
P2

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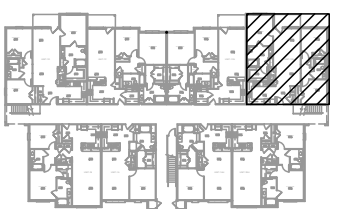
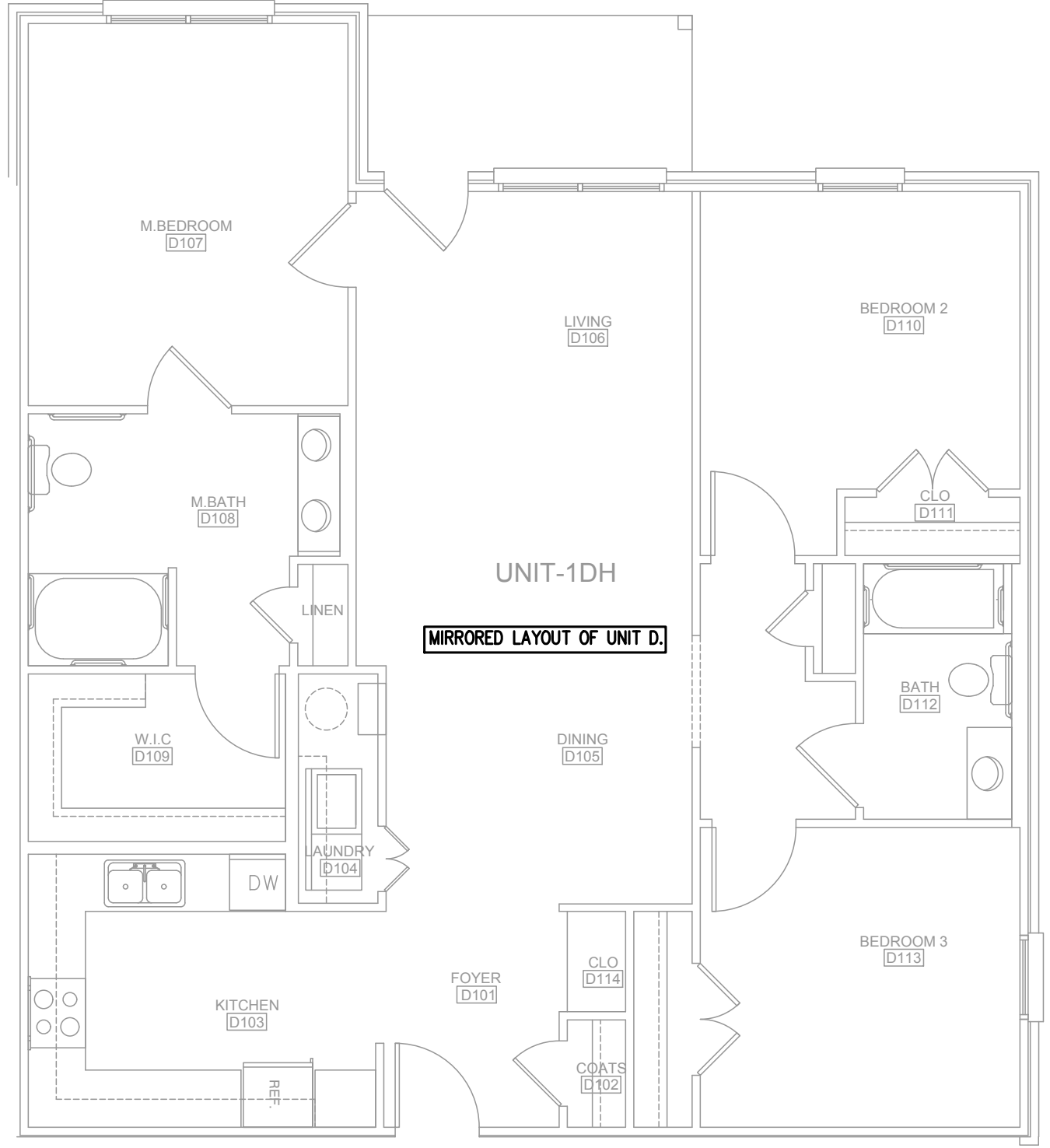
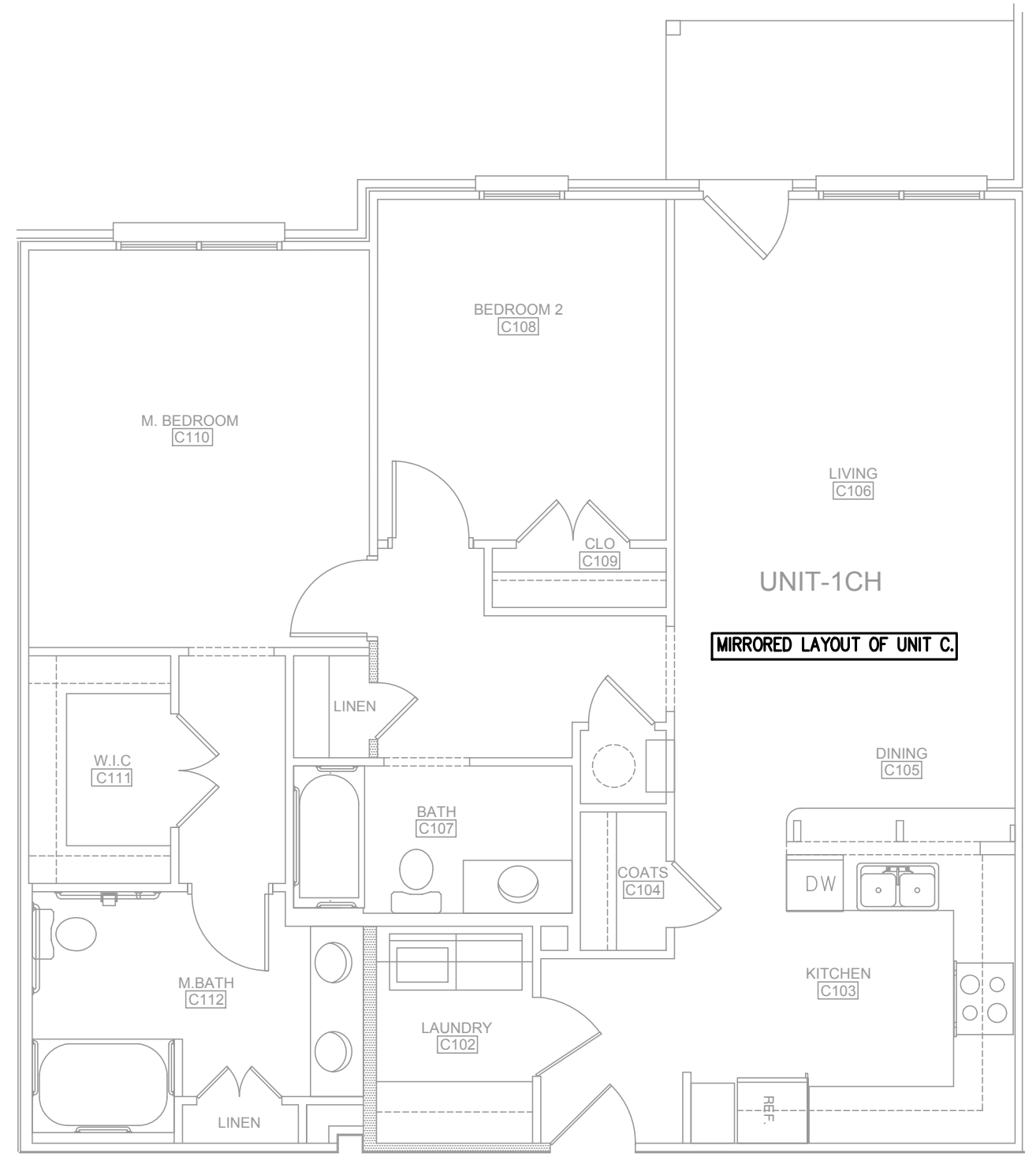
THE VILLAGE AT HUNTER'S RUN
PEMBROKE, NORTH CAROLINA

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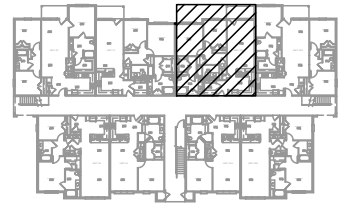
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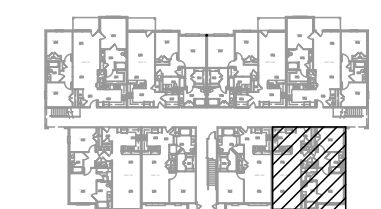
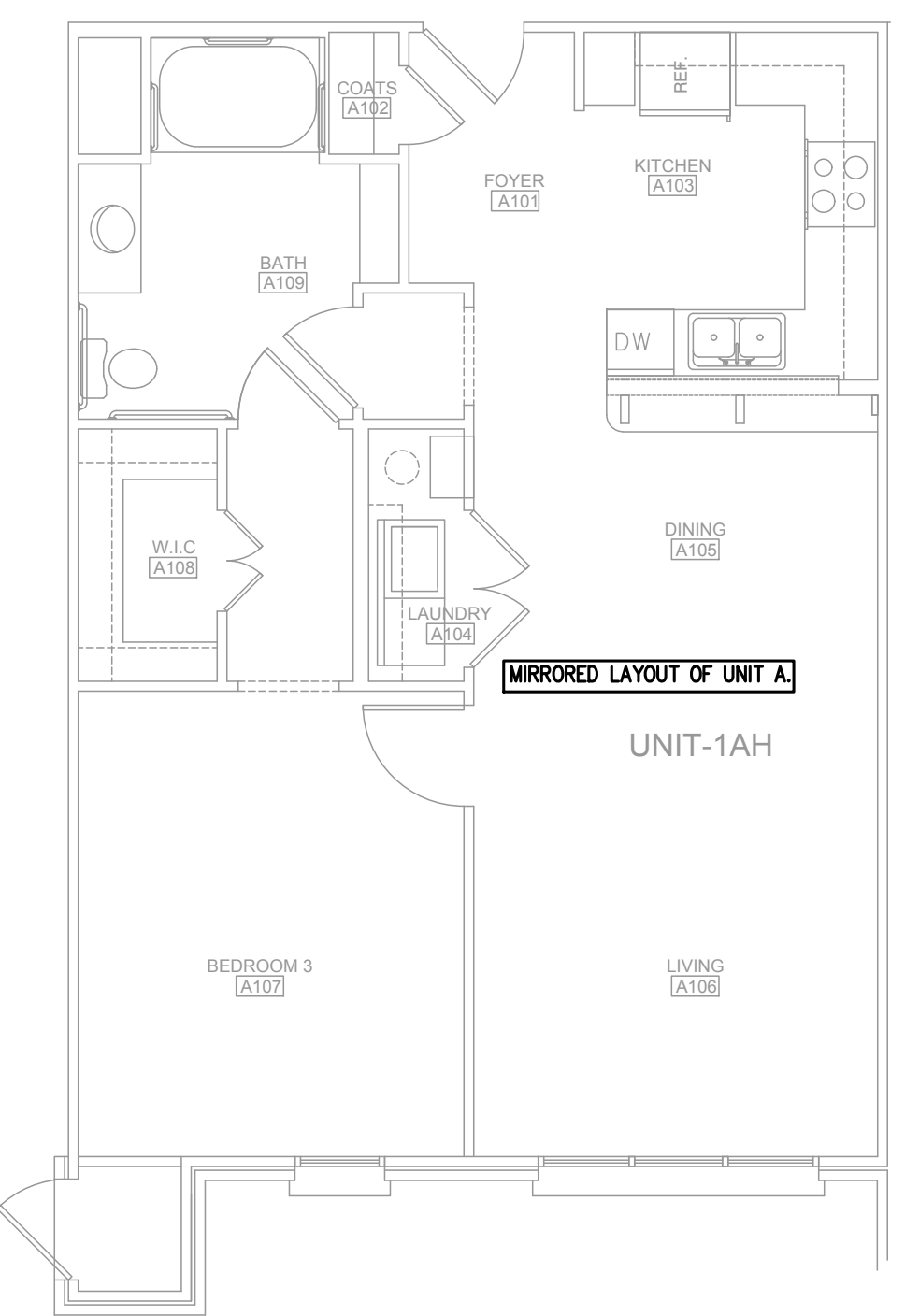
1 PLUMBING PLAN - UNIT CH
P3 3/16"=1'-0"

NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.



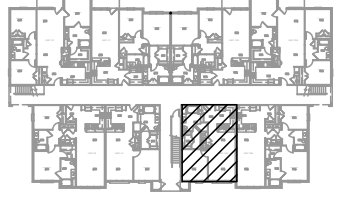
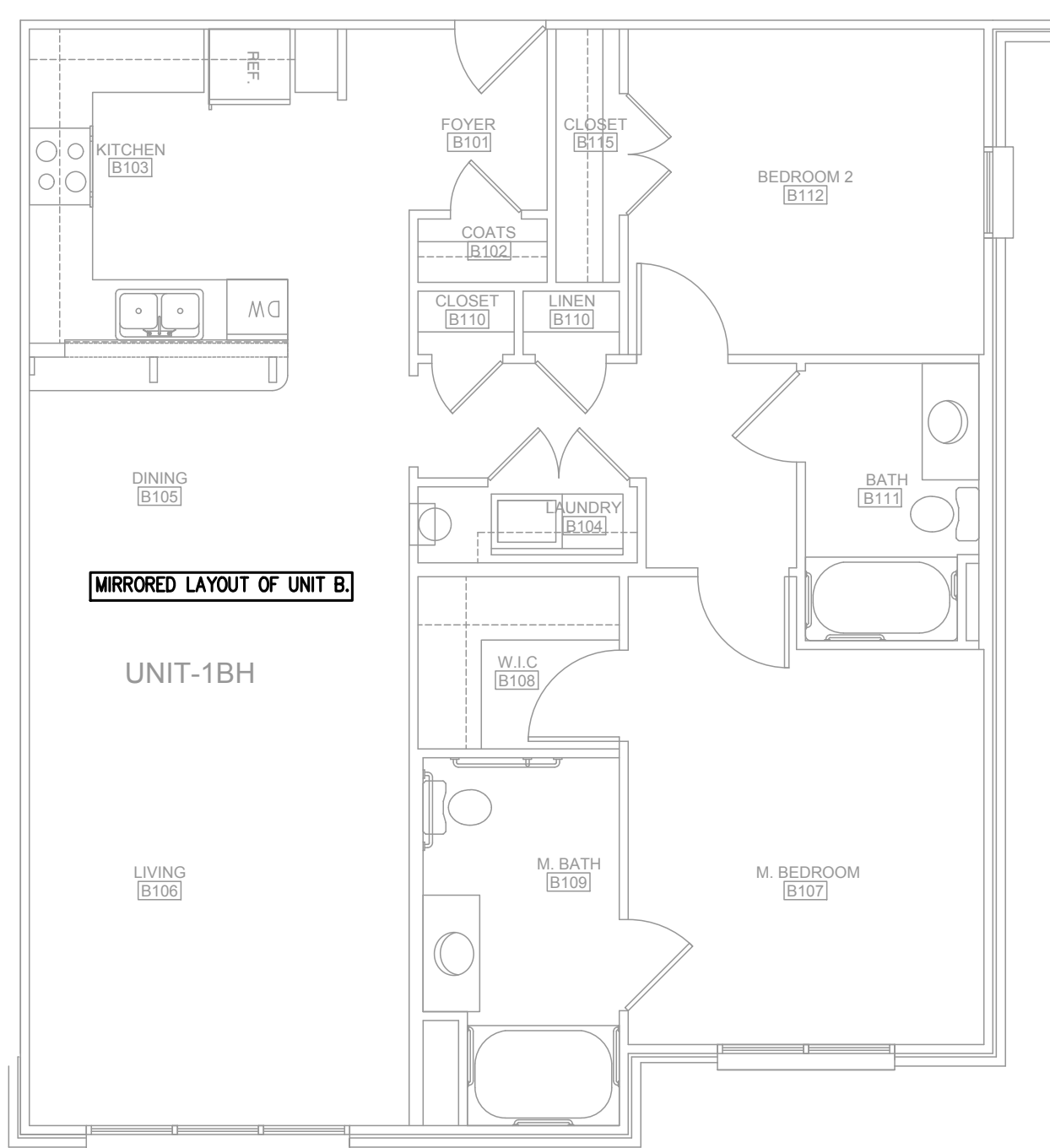
2 PLUMBING PLAN - UNIT DH
P3 3/16"=1'-0"

NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.



3 PLUMBING PLAN - UNIT AH
P3 3/16"=1'-0"

NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.



4 PLUMBING PLAN - UNIT BH
P3 3/16"=1'-0"

NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.

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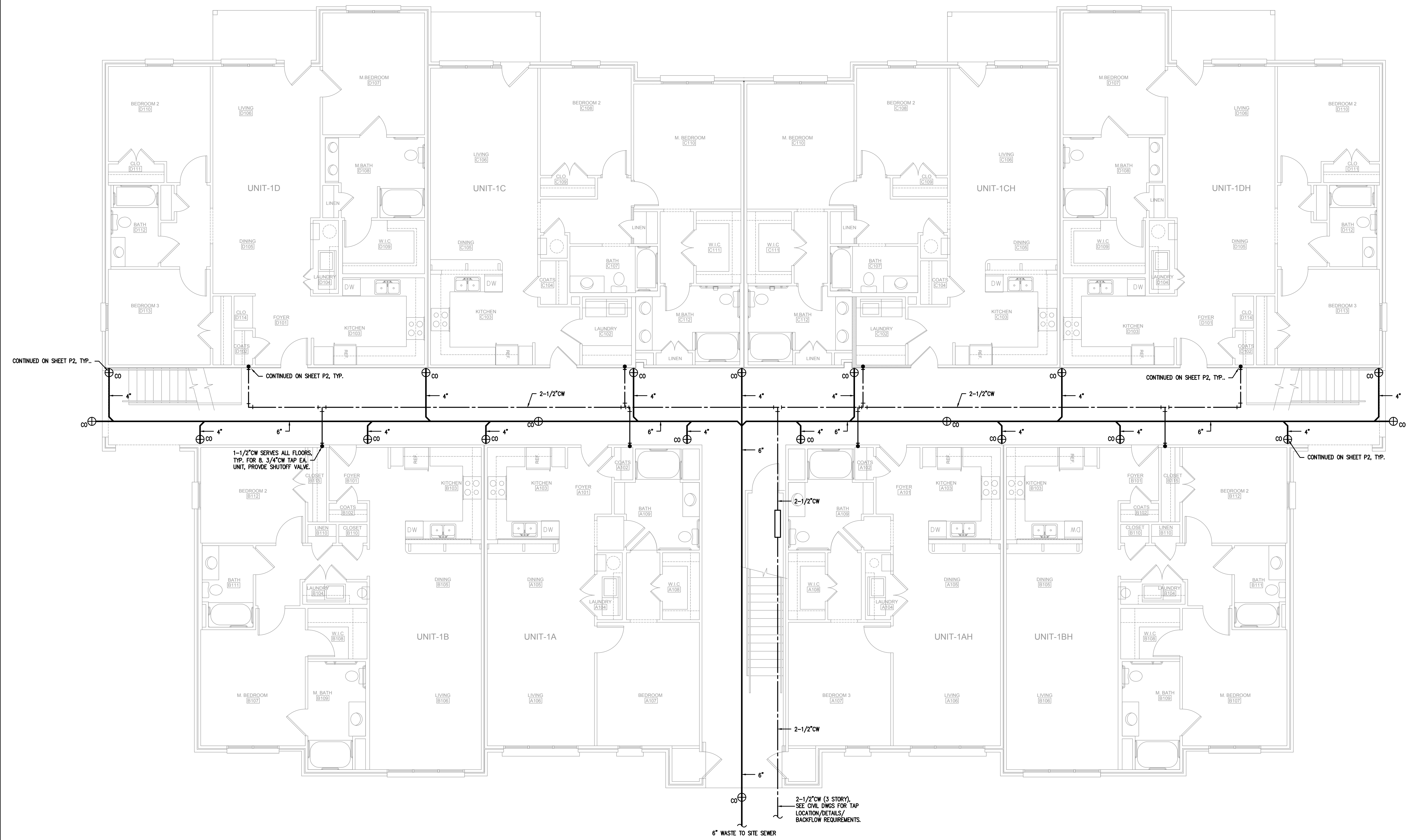
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1 PLUMBING PLAN - BUILDING OVERALL
P4 3/16" = 1'-0"



HEAT PUMP SCHEDULE

EQUIPMENT INFO			COOLING CAPACITIES		HEATING CAPACITIES		COMPRESSOR/CONDENSER SECTION				ELECTRICAL INFORMATION				MISCELLANEOUS INFORMATION					
TAG	TYPE	LOCATION	NOM. TONS	NOM. COOLING	MIN. SEER	UNIT CAPACITY	MIN. HSPF	NO. OF COMPR.	COMPRESSOR AMPS RLA	CONDENSER FAN AMPS RLA	NO. OF FANS	FAN HP	UNIT VOLTS	UNIT PHASE	MCA	MOCF	WIRE SIZE (DU. 75 C)	MANUFACTURER/MODEL	DIMENSIONS	WEIGHT
HP-1A, 2A & 3A	SPLIT-SYSTEM HEATPUMP	GROUND	1.5	18,000	14.00	17,000	8.2	1	9.0	0.54	1	1/12	240	1	12.0	20	#12	TRANE / 4TWR4018G1000A	30" X 30"	141 LBS
HP-1B, 2B, 3B, 1C, 2C, 3C, 1D & 2D	SPLIT-SYSTEM HEATPUMP	GROUND	2.0	24,000	14.00	22,500	8.2	1	10.9	0.64	1	1/8	240	1	14.0	25	#10	TRANE / 4TWR4024G1000A	41" X 37"	163 LBS
HP-3D	SPLIT-SYSTEM HEATPUMP	GROUND	2.5	30,000	14.00	26,800	8.2	1	12.8	0.77	1	1/8	240	1	17.0	25	#10	TRANE / 4TWR4030G1000A	41" X 37"	216 LBS

AIR HANDLING UNIT SCHEDULE

EQUIPMENT INFO			INDOOR FAN SECTION				ELECTRICAL INFORMATION				MISCELLANEOUS INFORMATION						
TAG	TYPE	NOM. TONS	SUPPLY CFM	ESP IN WG	FAN TYPE	FAN HP	FAN RPM	FAN FLA	HEAT STRIPS	UNIT VOLTS	UNIT PHASE	MOCF	MCA	WIRE SIZE (DU. 75 C)	MANUFACTURER/MODEL	DIMENSIONS	WEIGHT
AHU-1A, 2A & 3A	SPLIT-SYSTEM AIR HANDLER	1.5	600	0.61	DIRECT	1/3	825	2.0	4.8KW	240	1	30	28.0	#10	TRANE / TAM4A0A18S11SD	49" X 17"	113 LBS
AHU-1B, 2B, 3B, 1C, 2C, 3C, 1D & 2D	SPLIT-SYSTEM AIR HANDLER	2.0	800	0.62	DIRECT	1/4	1075	1.3	4.8KW	240	1	30	27.0	#10	TRANE / TAM4A0A24S11SD	49" X 17"	116 LBS
AHU-3D	SPLIT-SYSTEM AIR HANDLER	2.5	1000	0.66	DIRECT	1/3	1075	1.7	4.8KW	240	1	30	27.0	#10	TRANE / TAM4A0A30S11SD	49" X 17"	117 LBS

EXHAUST & MAKEUP FAN SCHEDULE

EQUIPMENT INFO			FAN INFORMATION				ELECTRICAL INFORMATION				MFG & MODEL	REMARKS						
TAG	TYPE	LOCATION	EXHAUST CFM	MAKEUP CFM	ESP IN WG	FAN DRIVE	SONES	RPM	FAN FLA	FAN HP	FAN WATT	UNIT VOLTS	UNIT PHASE	MOCF	MCA	WIRE SIZE (DU. 75 C)	MFG & MODEL	REMARKS
EF-1	TOILET EXHAUST	CEILING	75	0.125	DIRECT	2.0	950	-	-	54	120	1	-	-	-	#12	GREENHECK / SP-B70-QD OR EQUAL	

GRILLE/RETURN SCHEDULE

TAG	CFM	AIR PATTERN	FACE SIZE	NECK SIZE	SERVICE	MFG & MODEL	REMARKS
(A)	0-100	4-WAY	12X6	10X4	SUPPLY	TITUS 300R OR EQUAL	SURFACE; OFF WHITE; ALUM.
(B)	800-1000	LOUVERED	22X22	20X20	RETURN	TITUS PAR OR EQUAL	SURFACE; OFF WHITE; ALUM.; FILTER

2
M1 HVAC NOTES
N.T.S.

TRAP PRIMERS SHALL BE USED FOR CONDENSATE REMOVAL.

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA.

DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED.

ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-8.0 INTERNAL INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW.

VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW.

PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT.

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2012 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT.

SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER.

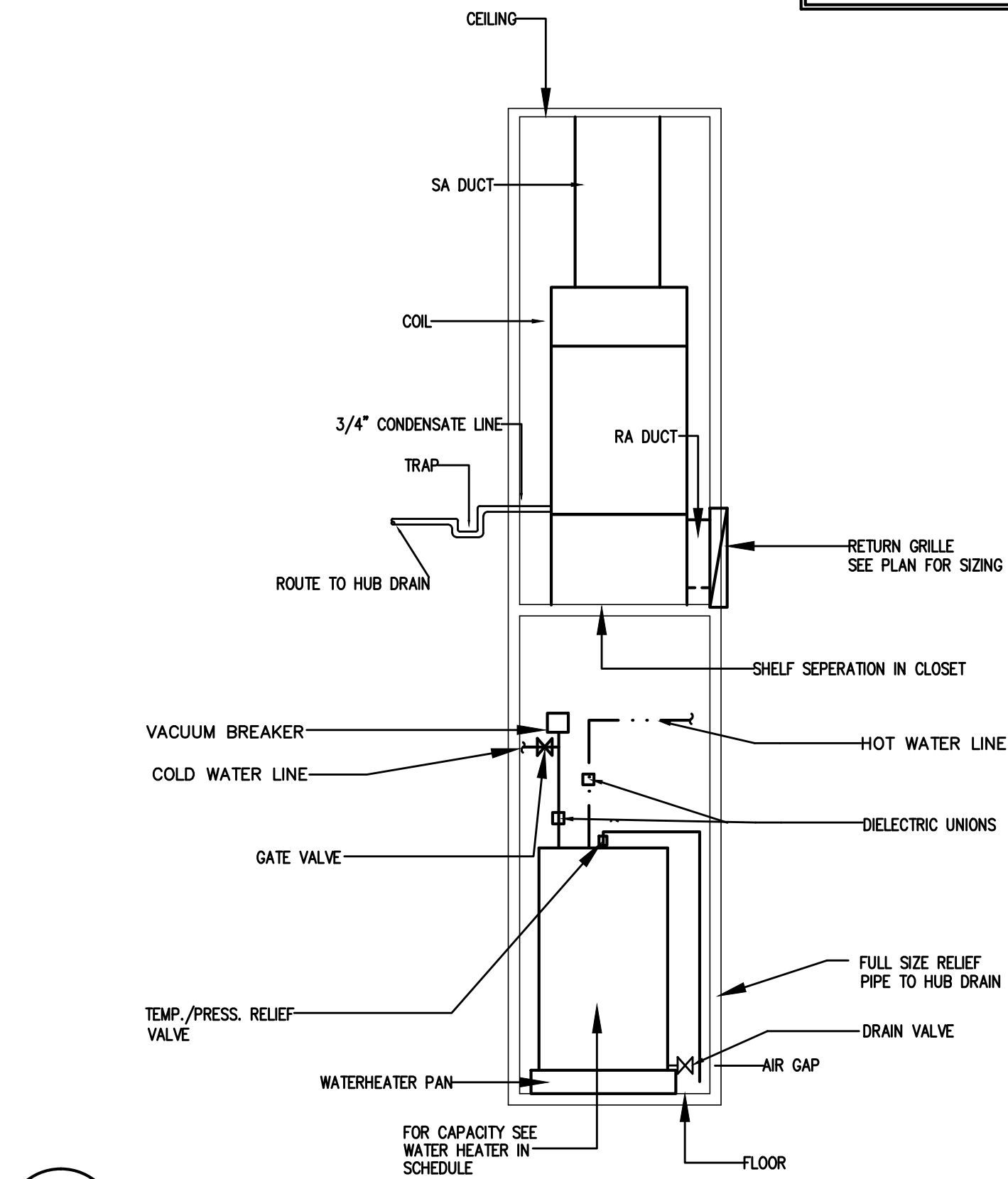
ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

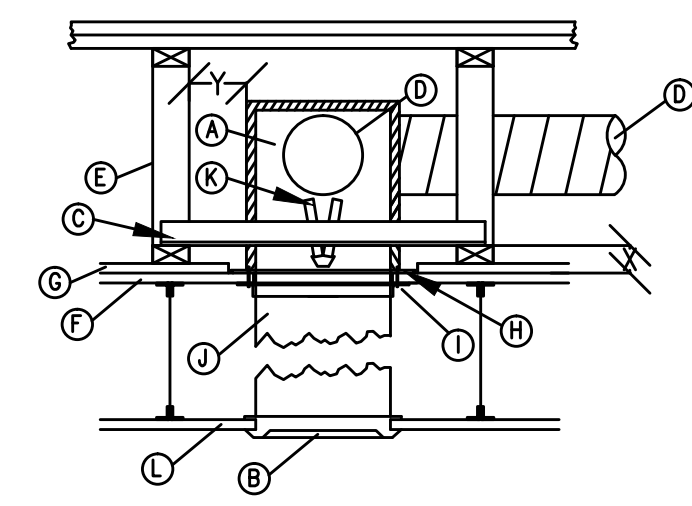
MECH CONTRACTOR SHALL FURNISH A TEST AND BALANCE REPORT FOR THE ENGINEER'S REVIEW. HVAC COMPLIANCE CERTIFICATION CANNOT BE ISSUED WITHOUT THIS REPORT.

Coastal Plains Engineering, P.A.
 FORM # C-003
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 www.coastalplainseng.com



7
M1 COMBINATION HVAC/WATERHEATER CLOSET
N.T.S.

- A FIBERGLASS DUCTBOARD PLENUM
- B STEEL FRAME GRILLE/DIFFUSER, 26 GA. (0.55) MIN. SEE NOTE 3
- C 3/4"x3/4"x16 GA. (19x19x1.61) OR 1 1/2"x1 1/2"x22 GA. (38x38x0.85) SUPPORT ANGLE (2 SIDES), SEE NOTES 1&2
- D FLEX DUCT UL CLASSIFIED AIR DUCT (CLASS 0 OR 1)
- E WOOD TRUSS (REFER TO SPECIFIC UL DESIGN NO.)
- F 5/8" (16) GYPSUM WALLBOARD (REFER TO SPECIFIC UL DESIGN NO.)
- G RC CHANNEL
- H SUB-FRAME WITH PLASTER FLANGE
- I 1"x1"x22 GA. (25x25x0.85) RETAINING ANGLE (MIN.) ON ALL 4 SIDES
- J AIR DUCT
- K CEILING DAMPER (1 OR 2 BLADES, OR CURTAIN TYPE)
- L LAY-IN CEILING



END VIEW WITH DUCT

- ATTACH 3/4"x3/4"x16 GA. (19x19x1.61) OR 1 1/2"x1 1/2"x22 GA. (38x38x0.85) SUPPORT ANGLES TO SUB-FRAME WITH A MINIMUM OF TWO #8 SCREWS OR 3/16" (5) DIA. STEEL POP RIVETS OR SPOT WELDS EACH SIDE. DISTANCE FROM BOTTOM OF ANGLE TO BOTTOM OF PLASTER FLANGE (X) SHOULD BE THE COMBINED THICKNESS OF THE WOOD TRUSS MEMBER AND THE RC CHANNEL. MAKE SURE FASTENERS DO NOT INTERFERE WITH DAMPER OPERATION.
- INSTALL ASSEMBLY BETWEEN TRUSSES AS SHOWN IN END VIEW AND ATTACH SUPPORT ANGLES TO TRUSS LOWER MEMBERS USING 1 1/4" (32) LONG TYPE S STEEL SCREWS OR SIMILAR. SEE DETAIL B FOR ALTERNATE SUPPORT ANGLE ATTACHMENT METHOD. MIN. CLEARANCE (DIM. Y) BETWEEN DAMPER ASSEMBLY AND WOOD TRUSS IS 2" (51).
- THE GRILLE/DIFFUSER FRAME SHALL BE 26 GAUGE (0.55) MIN. STEEL AND SHALL BE ATTACHED WITH A MIN. OF TWO #8x1 1/4" (32) MIN. SCREWS THROUGH THE CEILING MATERIAL AND INTO THE PLASTER FLANGE.



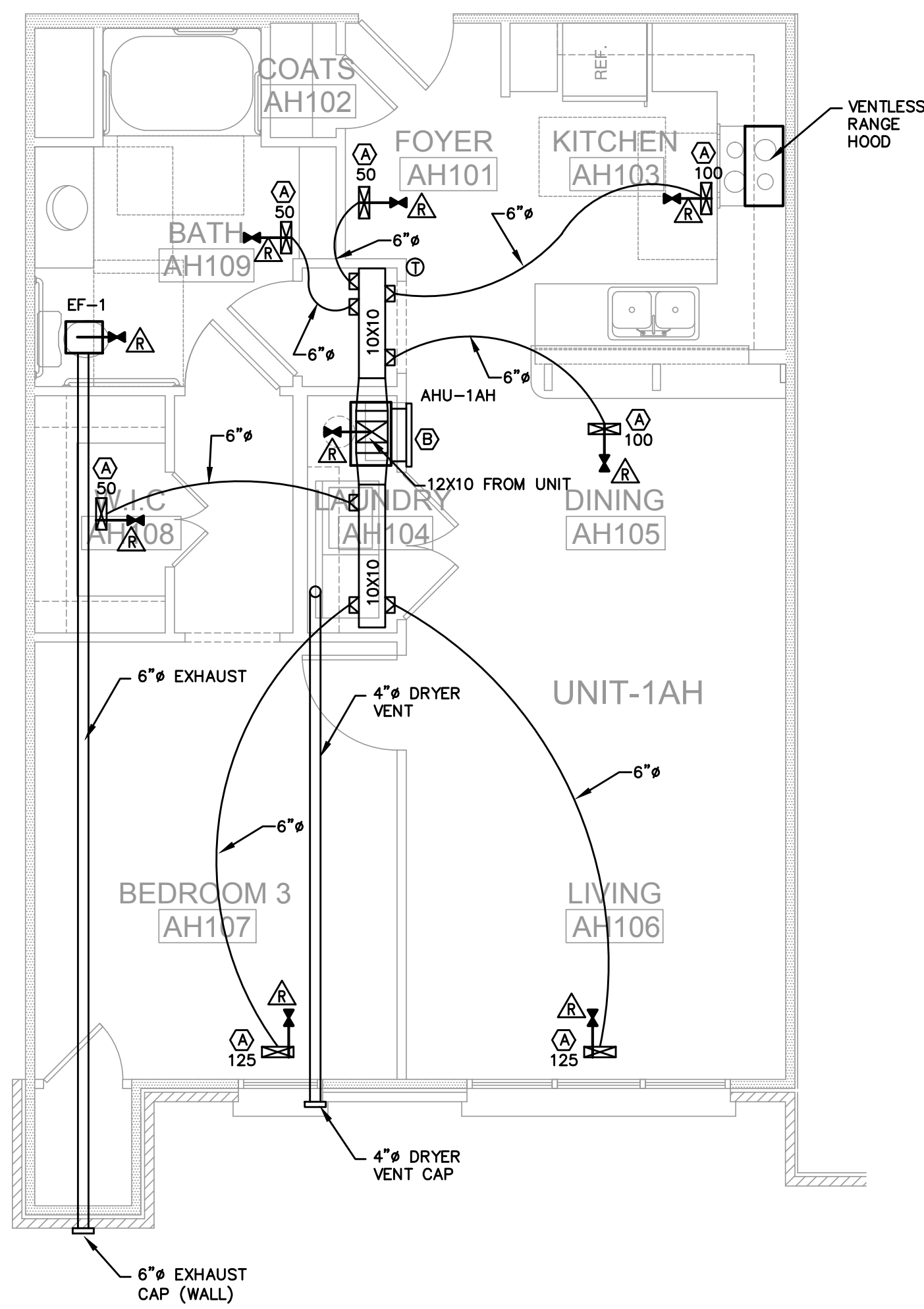
1
M1 OVERALL PLAN
SCALE: 1/8"=1'-0"

HUNTERS RUN APARTMENTS
 PEMBROKE, NORTH CAROLINA

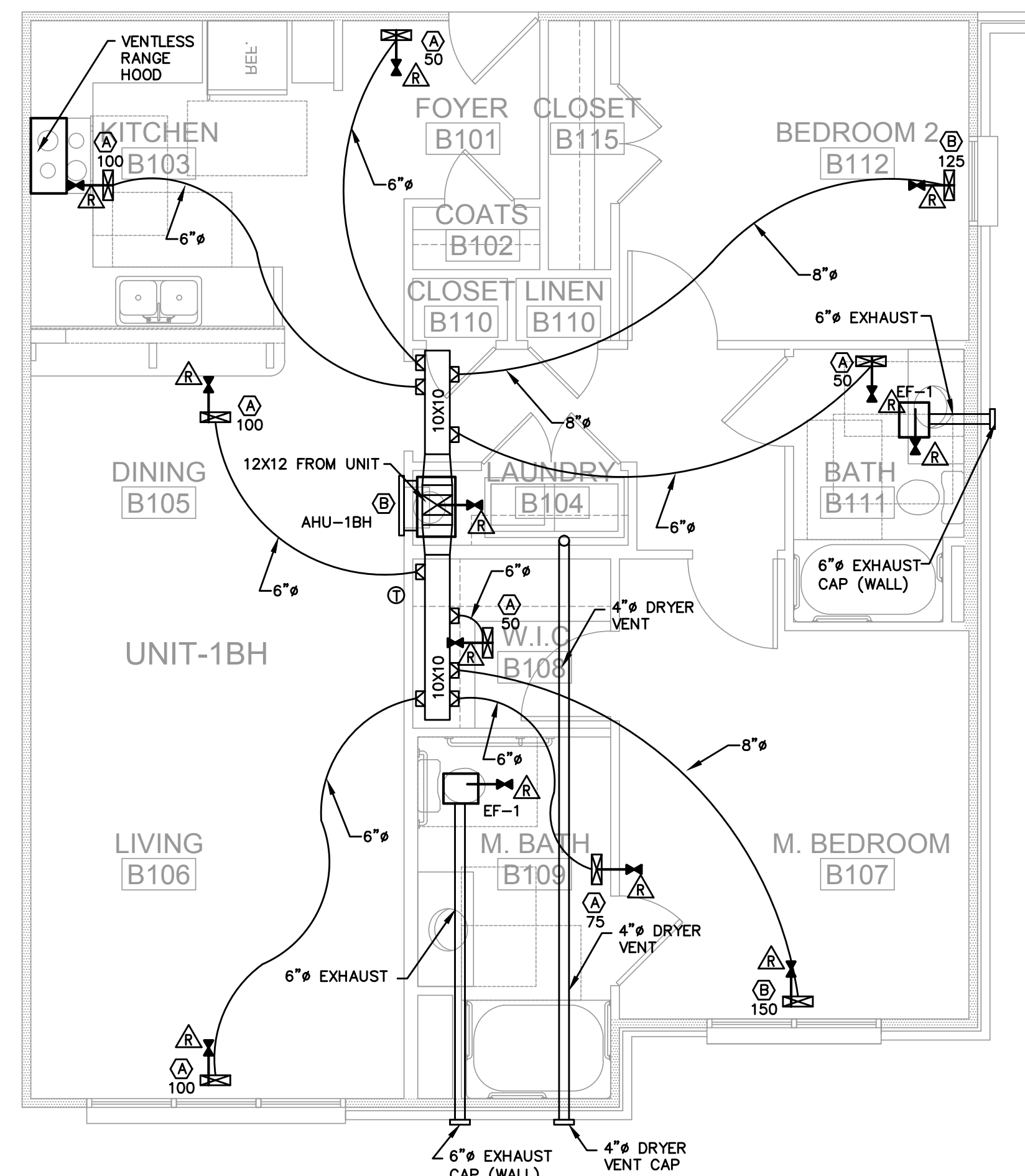
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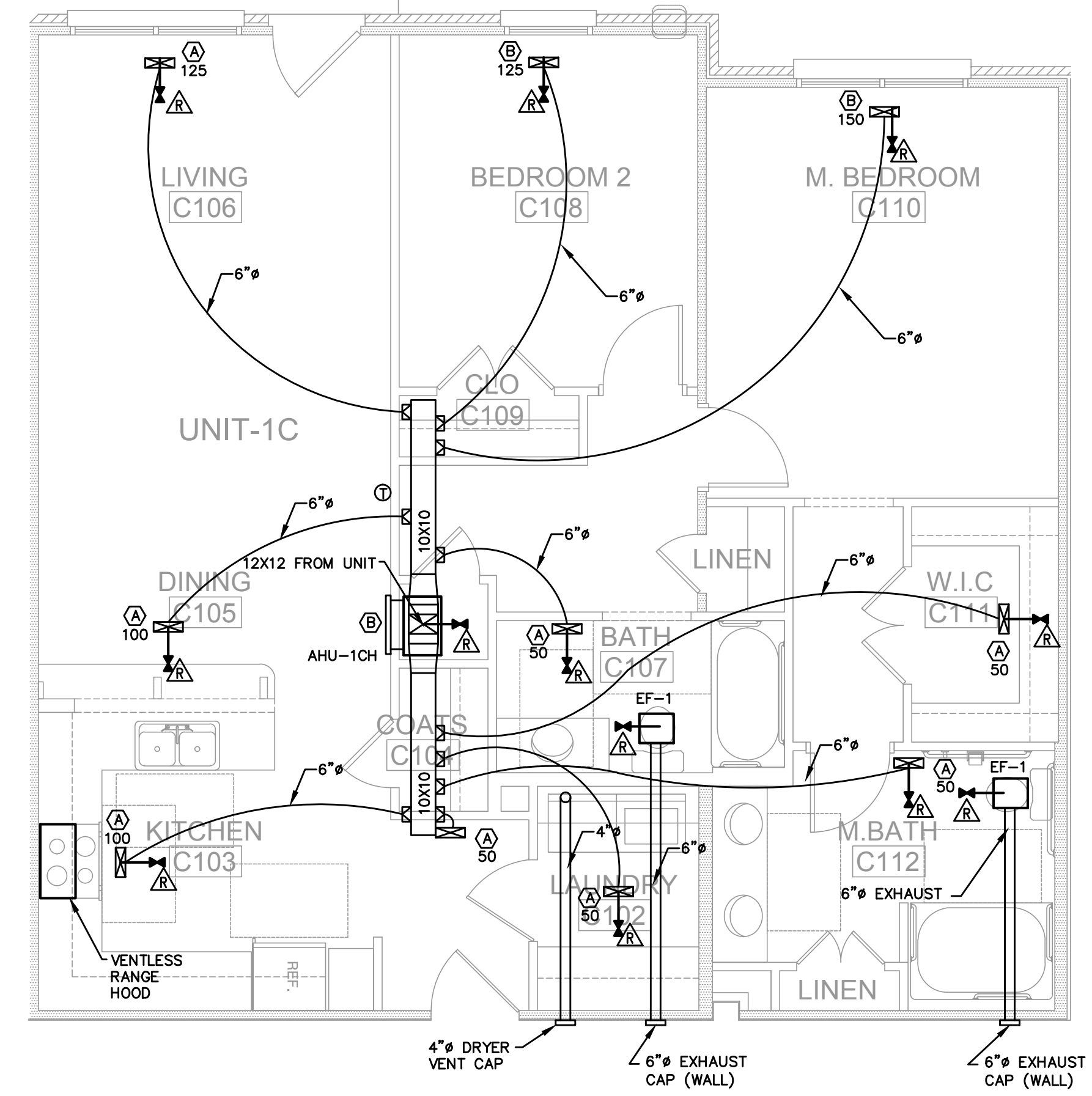
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M1



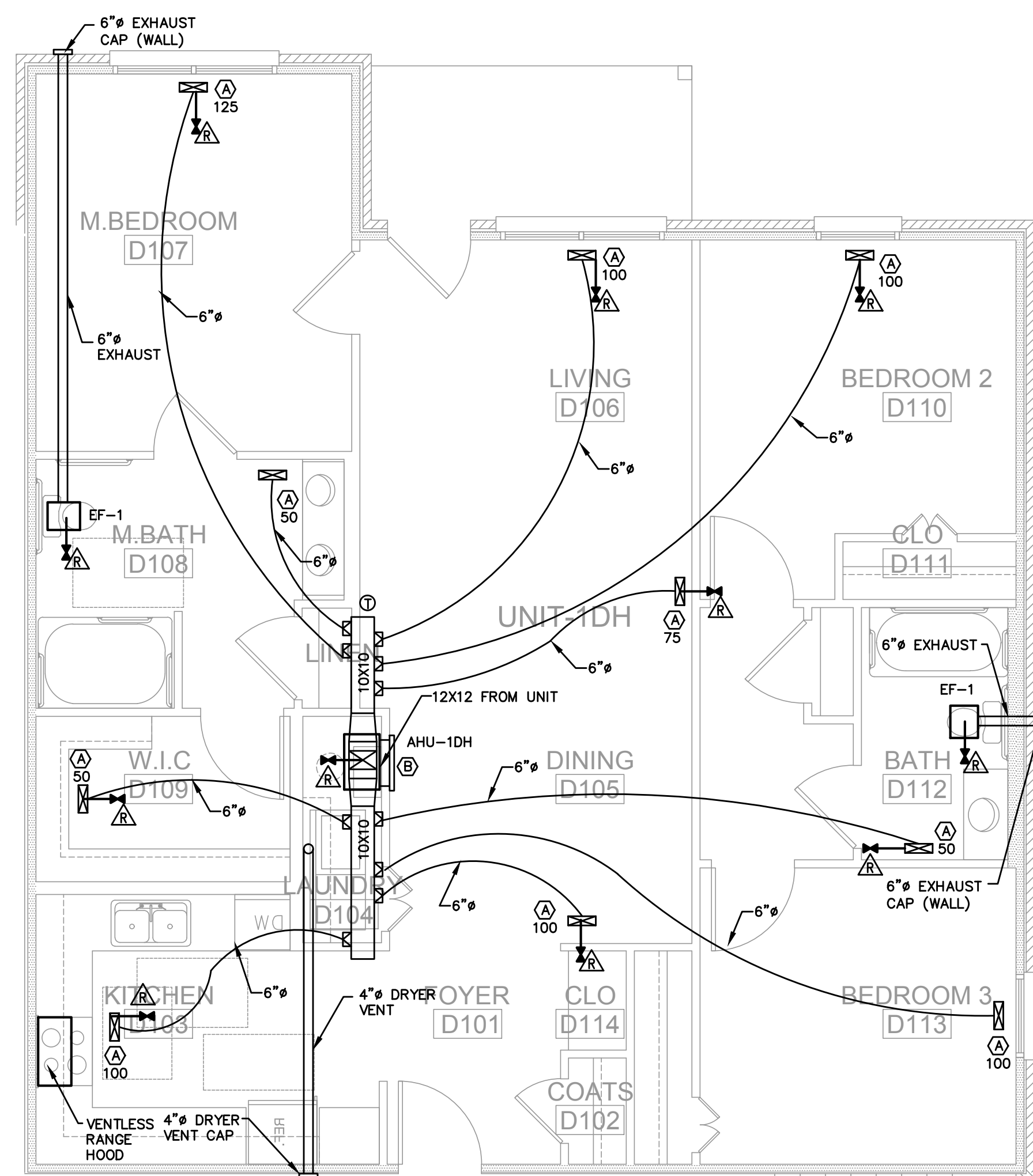
1
M2 1 BEDROOM - 1, 2 & 3 FLOORS
SCALE: 1/4"=1'-0"



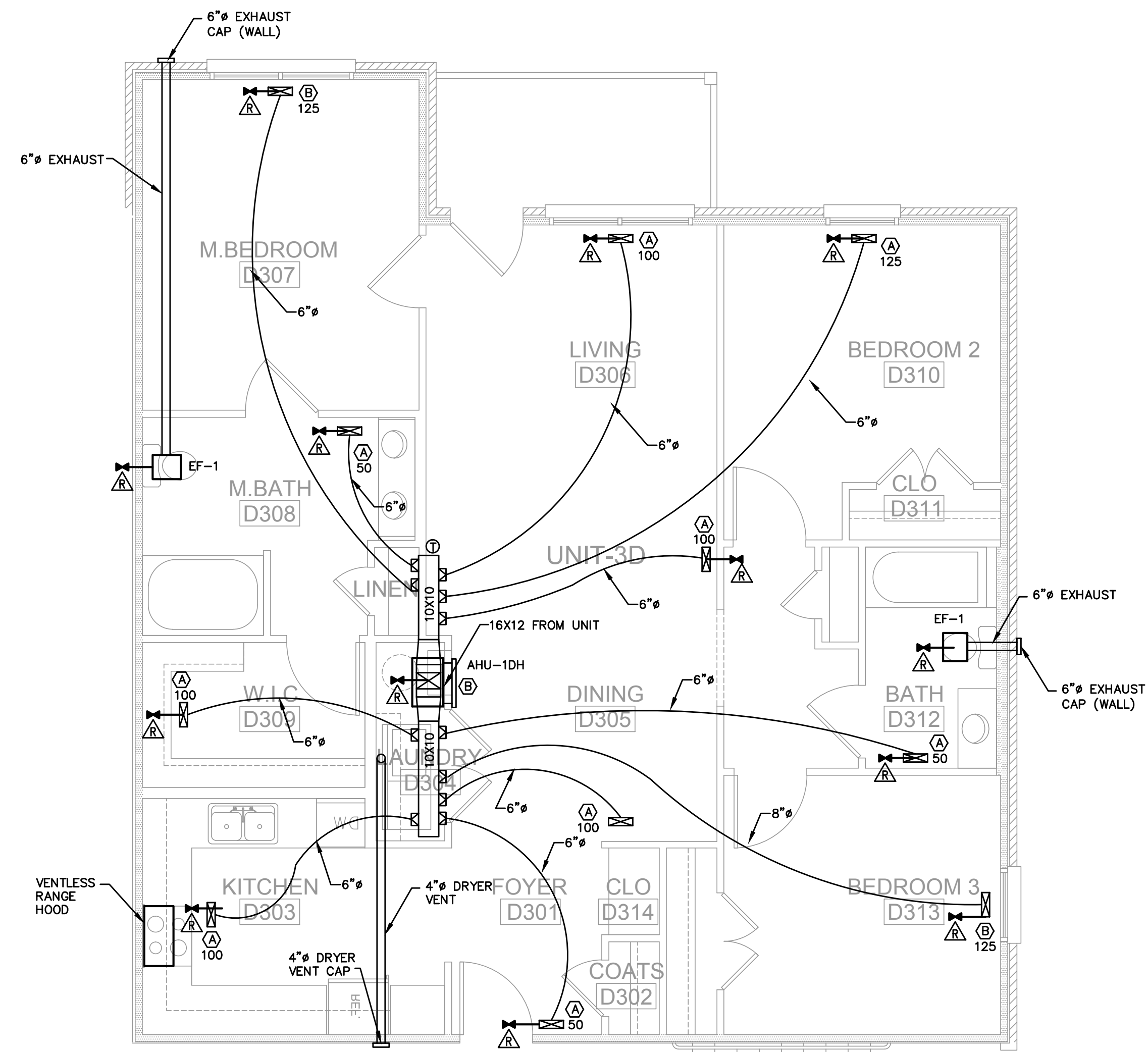
2
M2 2 BEDROOM - 1, 2 & 3 FLOORS
SCALE: 1/4"=1'-0"



3
M2 2 BEDROOM - 1, 2 & 3 FLOORS
SCALE: 1/4"=1'-0"



4
M2 3 BEDROOM - 1 & 2 FLOORS
SCALE: 1/4"=1'-0"



5
M2 3 BEDROOM - 3RD FLOOR
SCALE: 1/4"=1'-0"



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HUNTERS RUN
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PEMBROKE, NORTH CAROLINA

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PROJECT NO: 2018-039
 DRAWN BY: J. PARRISH
 DATE: 4/5/18
 REVISIONS:

SHEET NO:
 M2



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THE VILLAGE AT HUNTER'S RUN
PEMBROKE, NORTH CAROLINA

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PROJECT NO: 2018-039
DRAWN BY: CSL:MLJ
DATE: MAR. 2018
REVISIONS:

SHEET NO:
E-1

PANELBOARD SCHEDULE PP4. TYPE OF PANEL: CIRCUIT BREAKER. MOUNTING: FLUSH. VOLTAGE: 120/240, 1PH 3W. BUS SIZE (AMPS): 125 A. MAIN SWITCH: MLO. POLES: 3PSN. TOTAL SPACE REQUIRED: 42. NOTES: FIRST & SECOND FLR UNIT-D. FEEDER: SEE RISER DIAGRAM. AMPS INTERRUPTING RATING 14 KA. MANUFACTURER: SQUARE D OR EQ.

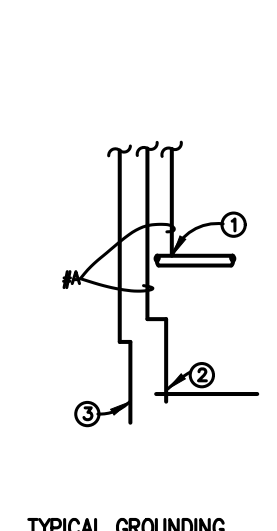
PANELBOARD SCHEDULE PP4. TYPE OF PANEL: CIRCUIT BREAKER. MOUNTING: FLUSH. VOLTAGE: 120/240, 1PH 3W. BUS SIZE (AMPS): 125 A. MAIN SWITCH: MLO. POLES: 3PSN. TOTAL SPACE REQUIRED: 42. NOTES: THIRD FLR UNIT-D ONLY. FEEDER: SEE RISER DIAGRAM. AMPS INTERRUPTING RATING 14 KA. MANUFACTURER: SQUARE D OR EQ.

PANELBOARD SCHEDULE PP3. TYPE OF PANEL: CIRCUIT BREAKER. MOUNTING: FLUSH. VOLTAGE: 120/240, 1PH 3W. BUS SIZE (AMPS): 125 A. MAIN SWITCH: MLO. POLES: 3PSN. TOTAL SPACE REQUIRED: 42. NOTES: UNIT-C. FEEDER: SEE RISER DIAGRAM. AMPS INTERRUPTING RATING 14 KA. MANUFACTURER: SQUARE D OR EQ.

PANELBOARD SCHEDULE PP2. TYPE OF PANEL: CIRCUIT BREAKER. MOUNTING: FLUSH. VOLTAGE: 120/240, 1PH 3W. BUS SIZE (AMPS): 125 A. MAIN SWITCH: MLO. POLES: 3PSN. TOTAL SPACE REQUIRED: 42. NOTES: UNIT-B. FEEDER: SEE RISER DIAGRAM. AMPS INTERRUPTING RATING 14 KA. MANUFACTURER: SQUARE D OR EQ.

PANELBOARD SCHEDULE PP1. TYPE OF PANEL: CIRCUIT BREAKER. MOUNTING: FLUSH. VOLTAGE: 120/240, 1PH 3W. BUS SIZE (AMPS): 125 A. MAIN SWITCH: MLO. POLES: 3PSN. TOTAL SPACE REQUIRED: 42. NOTES: UNIT-A. FEEDER: SEE RISER DIAGRAM. AMPS INTERRUPTING RATING 14 KA. MANUFACTURER: SQUARE D OR EQ.

ROOM MOUNTING FLUSH. FED FROM UTILITY. VOLTAGE 240/120V 2P 3W. BUS AMPS 60. AIC 14,000. MAIN BKR 60. LUGS STANDARD. NEUTRAL 100%. NOTE: TABLE WITH CKT #, CIRCUIT DESCRIPTION, LOAD KVA, and TOTAL CONNECTED KVA BY PHASE.



TYPICAL GROUNDING

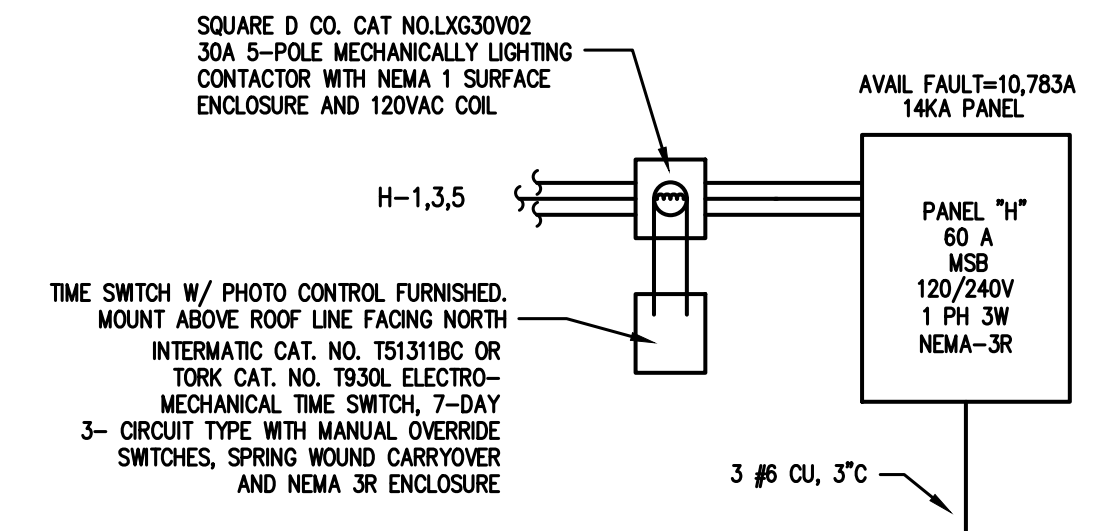
GROUNDING ELECTRODE DETAILS

GROUNDING ELECTRODE CONDUCTORS SHALL BE #8 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC

- ① CONNECT TO METALIC WATER PIPE AS REQ'D.
- ② #8 COPPER GROUND PLACED TO BLDG STEEL
- ③ 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.

ALL BLDG SERVICES SHALL BE CONNECTED TO THE SAME GROUNDING ELECTRODE PER NEC 250.58

A=#8 CU (PANEL H)



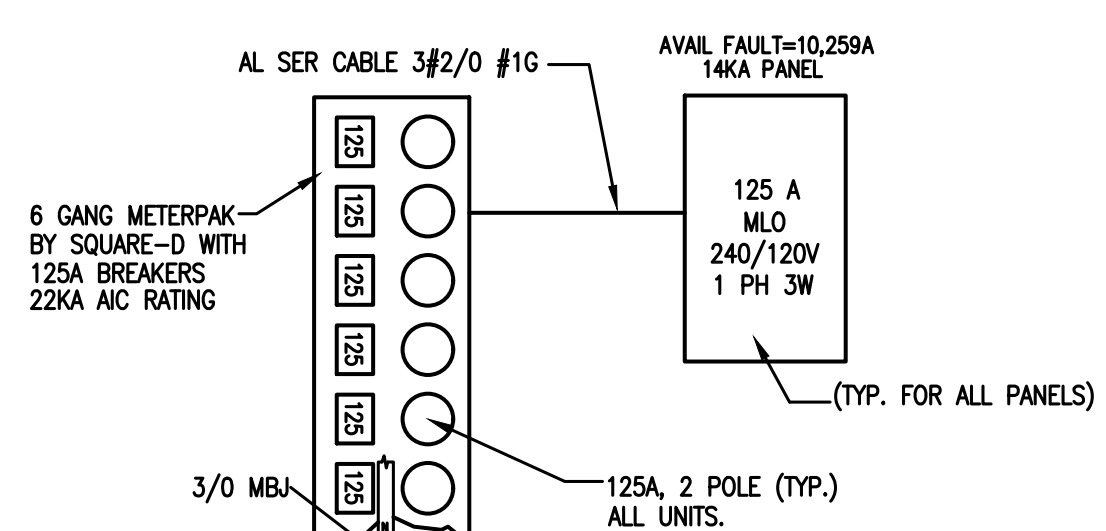
TIME SWITCH W/ PHOTO CONTROL FURNISHED. MOUNT ABOVE ROOF LINE FACING NORTH. INTERMATIC CAT. NO. TS1311BC OR TORK CAT. NO. T830L ELECTRO-MECHANICAL TIME SWITCH, 7-DAY 3-CIRCUIT TYPE WITH MANUAL OVERRIDE SWITCHES, SPRING WOUND CARRYOVER AND NEMA 3R ENCLOSURE.

AVAILABLE FAULT CALCULATIONS 150'-0" 1 RUN OF 3 #3 TO 100KVA PADMOUNTED TRANSFORMER 1.8KZ 13,229A AT METER

827 SF X 3VA X 3 UNITS
1141 SF X 3VA X 3 UNITS
1500 X 2 X 6 UNITS (SM. APP.)
1500 X 1 X 6 UNIT (LAUNDRY)
44,712 VA
3000 + (41,712 X .21)
11,760 VA
6 X 4500 X .75 (WH)
6 X 5000 X .47 (DRYER)
21,000 VA (6 RANGES)
6 X 1200 X (.75) DW
3 X 8,432 VA (HEAT)
3 X 8,904 VA (HEAT)
127,518 VA CONNECTED LOAD
531 A LOAD

ALL BLDG SERVICES SHALL BE CONNECTED TO THE SAME GROUNDING ELECTRODE PER NEC 250.58

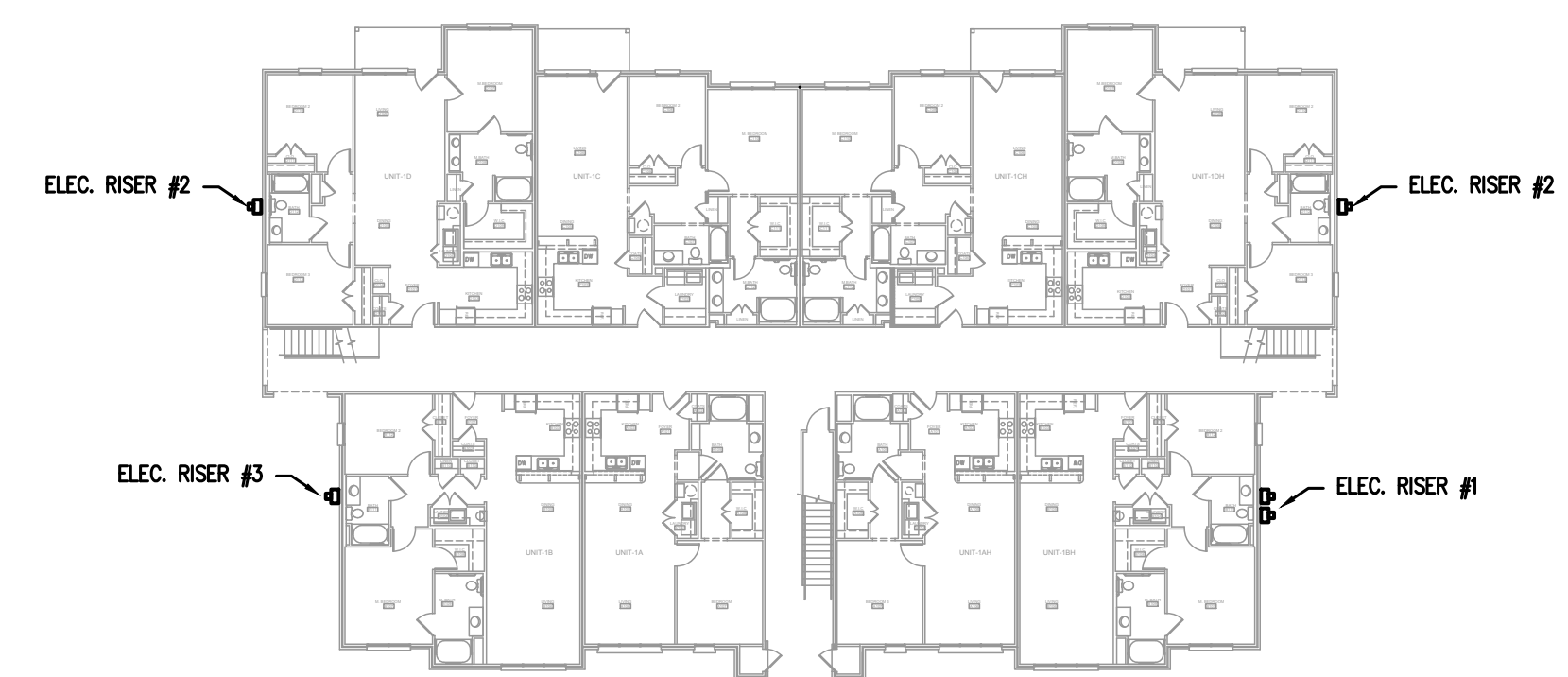
AVAILABLE FAULT CALCULATIONS 150'-0" 1 RUN OF 3 #600 TO 100KVA PADMOUNT TRANSFORMER 1.8KZ 13,229A AT METER



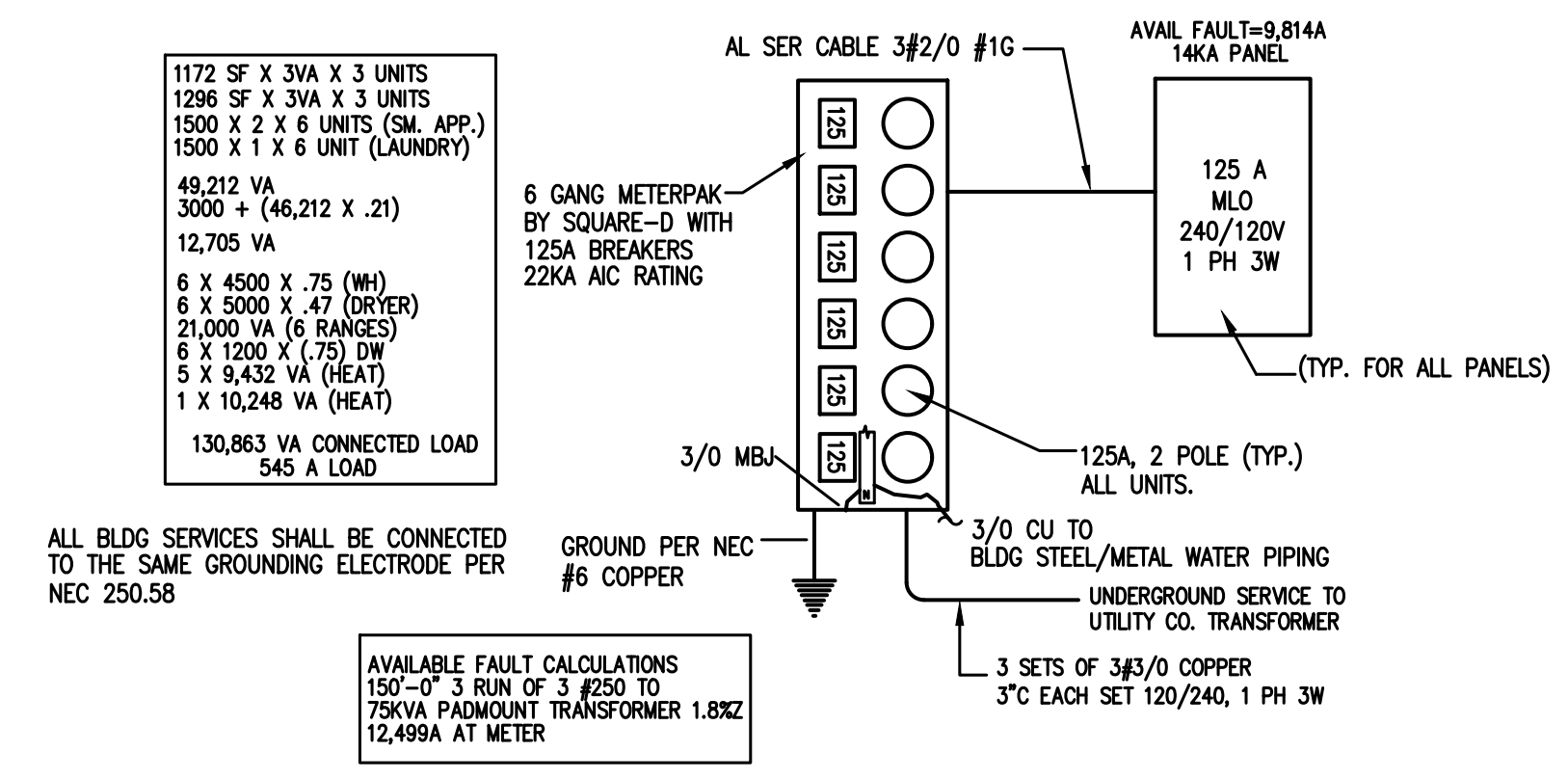
GROUND PER NEC #6 COPPER

AVAILABLE FAULT CALCULATIONS 150'-0" 1 RUN OF 3 #600 TO 100KVA PADMOUNT TRANSFORMER 1.8KZ 13,229A AT METER

1 ELECTRIC RISER-SERVICE #1
N.T.S.

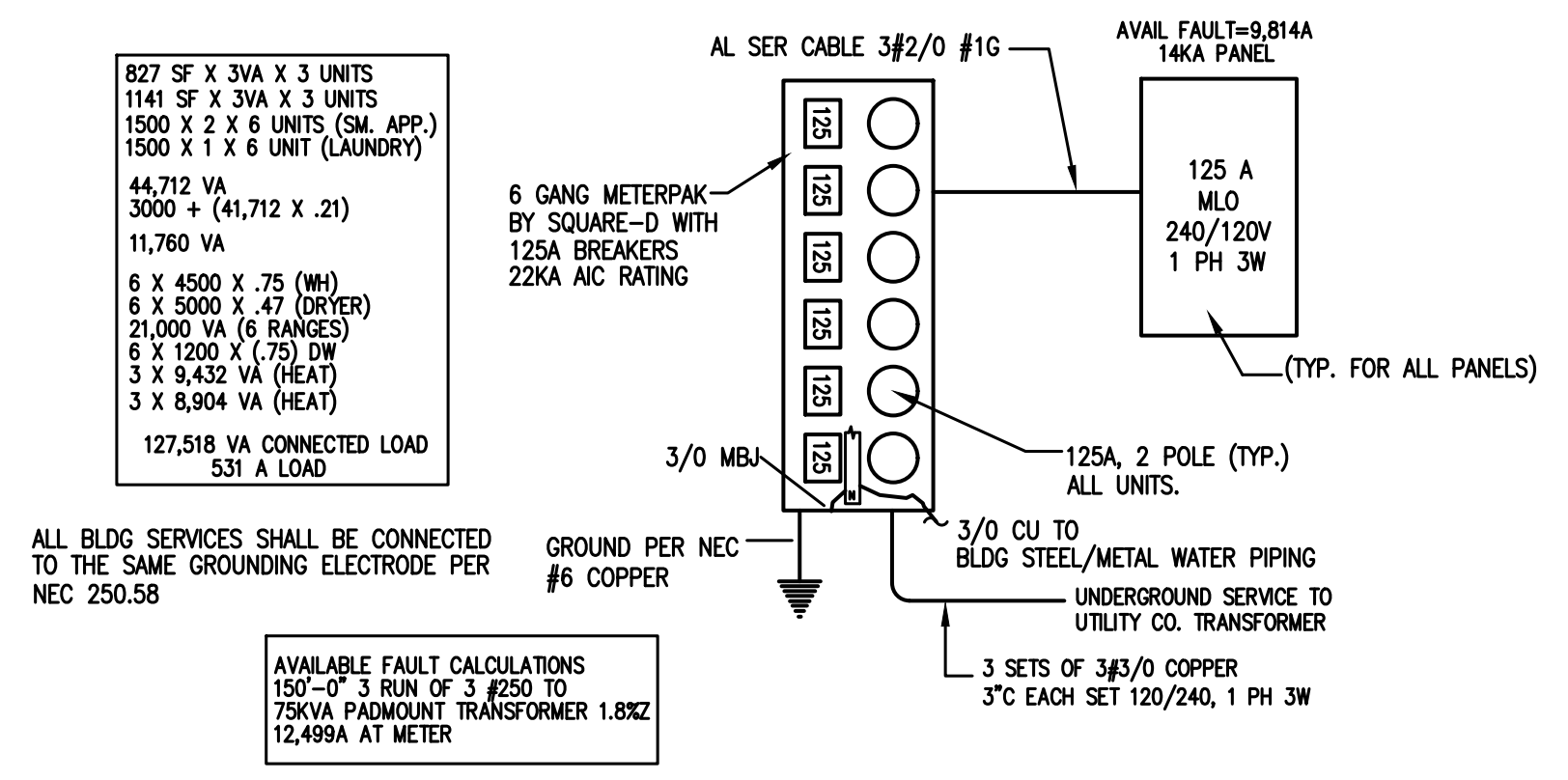


KEY PLAN - N.T.S.



ALL BLDG SERVICES SHALL BE CONNECTED TO THE SAME GROUNDING ELECTRODE PER NEC 250.58

AVAILABLE FAULT CALCULATIONS 150'-0" 3 RUN OF 3 #250 TO 75KVA PADMOUNT TRANSFORMER 1.8KZ 12,499A AT METER



ALL BLDG SERVICES SHALL BE CONNECTED TO THE SAME GROUNDING ELECTRODE PER NEC 250.58

AVAILABLE FAULT CALCULATIONS 150'-0" 3 RUN OF 3 #250 TO 75KVA PADMOUNT TRANSFORMER 1.8KZ 12,499A AT METER

2 ELECTRIC RISER-SERVICE #2
N.T.S.

3 ELECTRIC RISER-SERVICE #3
N.T.S.

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E-2



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DATE: MAR. 2018
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SHEET NO:
E-3

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN OR THWN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUTE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUDTIGHT OR WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUDTIGHT OR WATERTIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

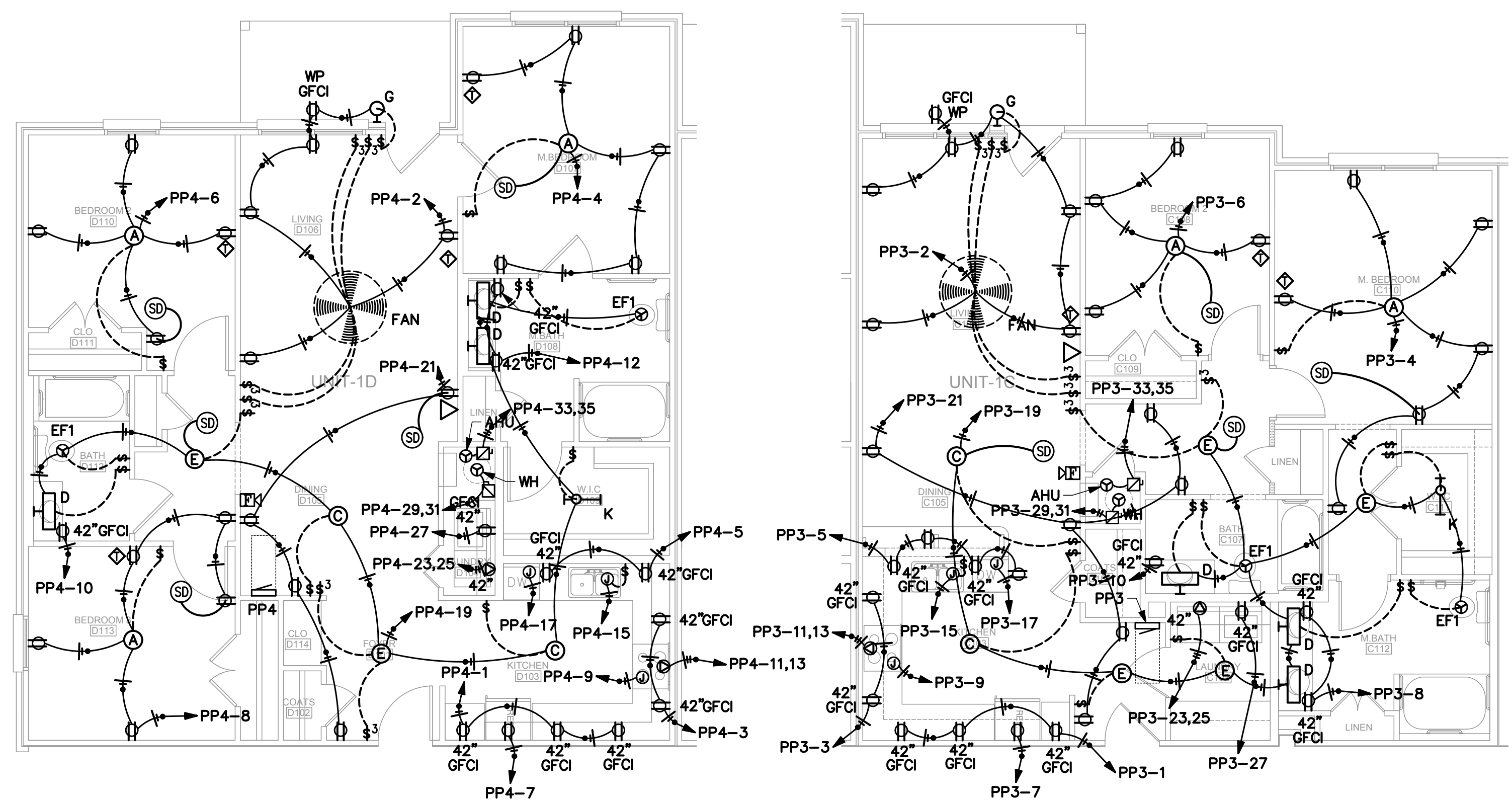
ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

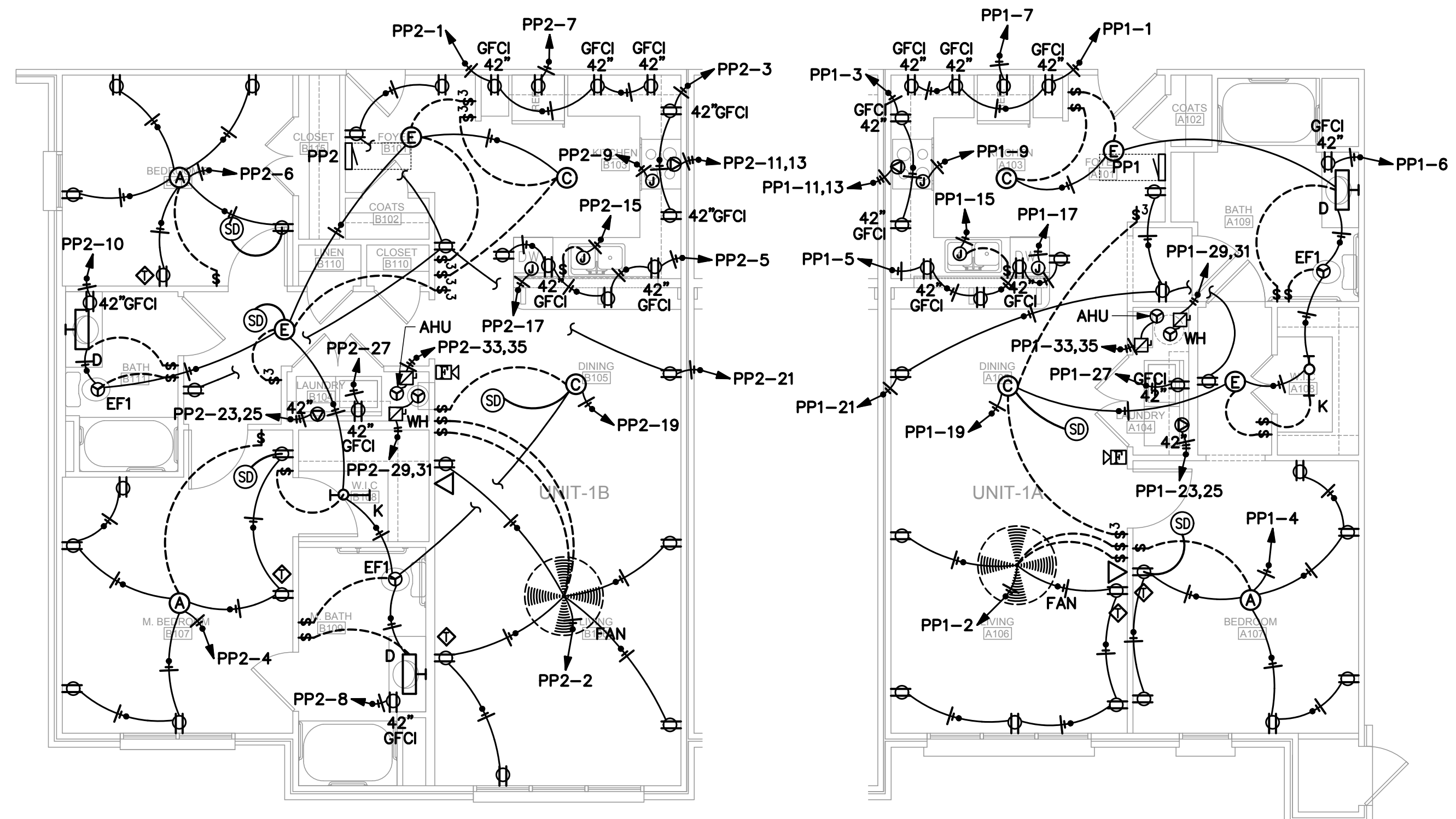
RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY.

6 ELECTRICAL NOTES
E3 N.T.S.



1 ELECTRICAL PLAN - UNIT D
E3 3/16"=1'-0"

2 ELECTRICAL PLAN - UNIT C
E3 3/16"=1'-0"



3 ELECTRICAL PLAN - UNIT B ALT.
E3 3/16"=1'-0"

4 ELECTRICAL PLAN - UNIT B
E3 3/16"=1'-0"

5 ELECTRICAL PLAN - UNIT A
E3 3/16"=1'-0"

ELECTRICAL SYMBOLS	
	TYPICAL WALL RECEPTACLE
	110 V - 42" AFF
	HALF HOT AND HALF SWITCHED
	WEATHERPROOF RECEPTACLE
	220 V OUTLET
	FLOOR OUTLET
	CEILING RECEPTACLE
	TYPICAL SWITCH
	3 WAY OR MORE (SEE PLAN)
	DIMMER SWITCH
	TV JACK
	PHONE JACK
	SMOKE DETECTOR
	PULL STATION
	HORN/STROBE
	ELECTRIC PANEL
	FIRE ALARM CONTROL PANEL
	DISCONNECT
	PHOTOCELL CONTROL
	LIGHT FIXTURES

- STROBE ONLY, TYP.
- HORN ONLY, TYP.
- STROBE/HORN, TYP.
- SMOKE DETECTOR, TYP.
- HEAT DETECTOR, TYP.

NOTE:
THIS RECEPTACLE LAYOUT IS INTENDED TO MEET THE SPACING REQUIREMENTS OF THE CURRENT NEC. COORDINATE WITH AHU FIELD PERSONNEL AT ROUGH-IN TO VERIFY.

*ALL 15a AND 20a BRANCH CIRCUIT SHALL BE "ARC FAULT CIRCUIT INTERRUPTING" TYPE.



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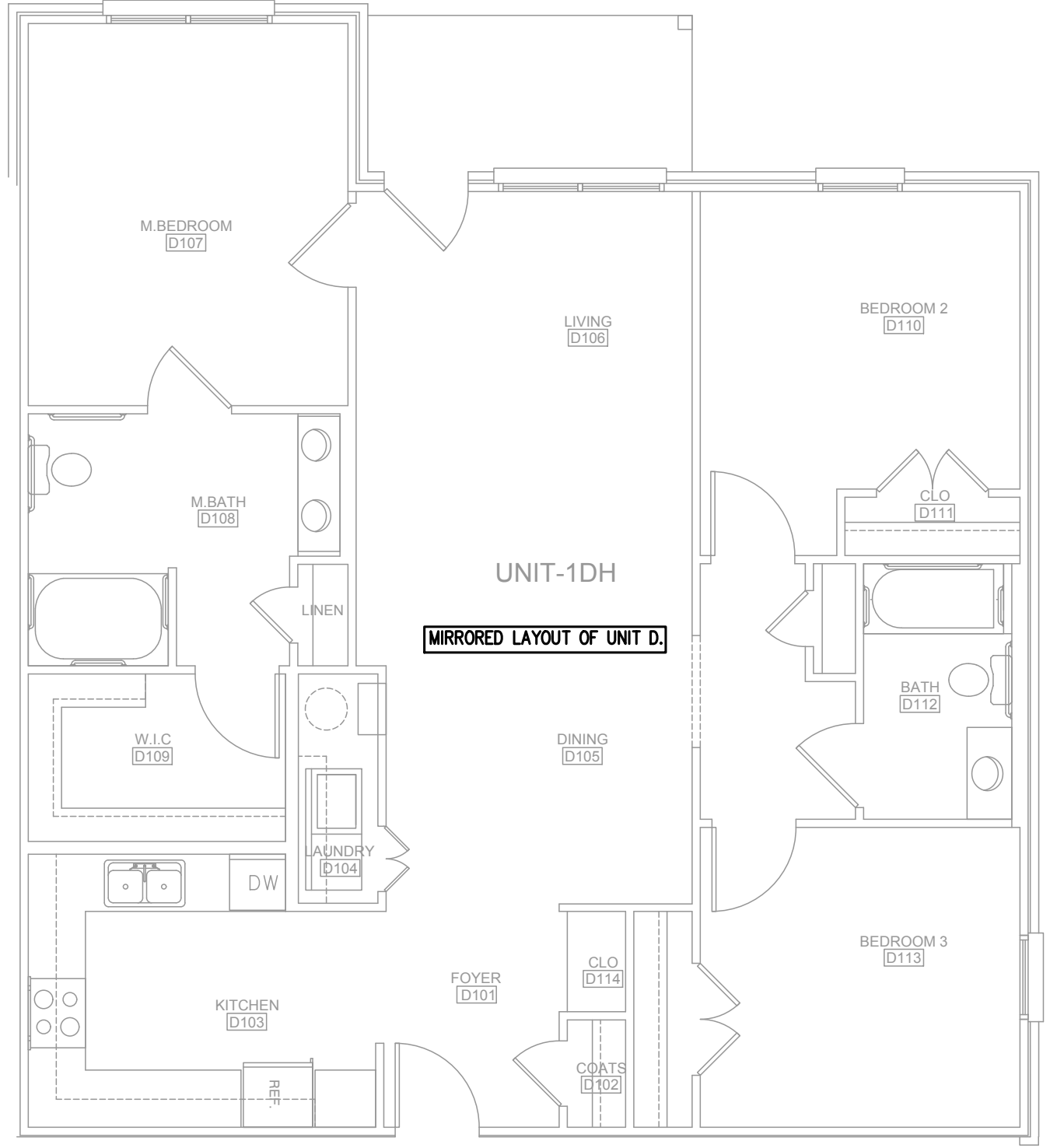
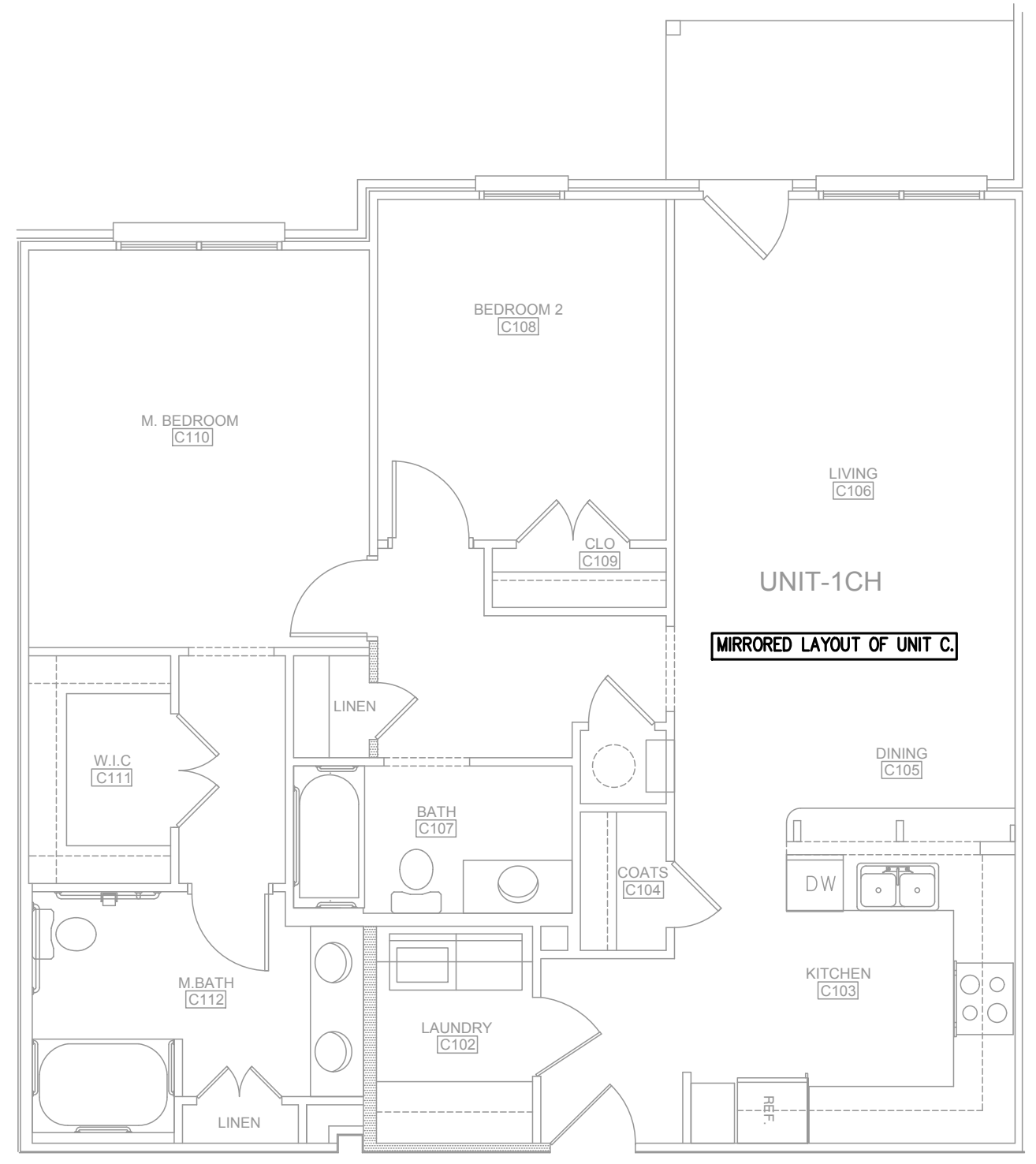
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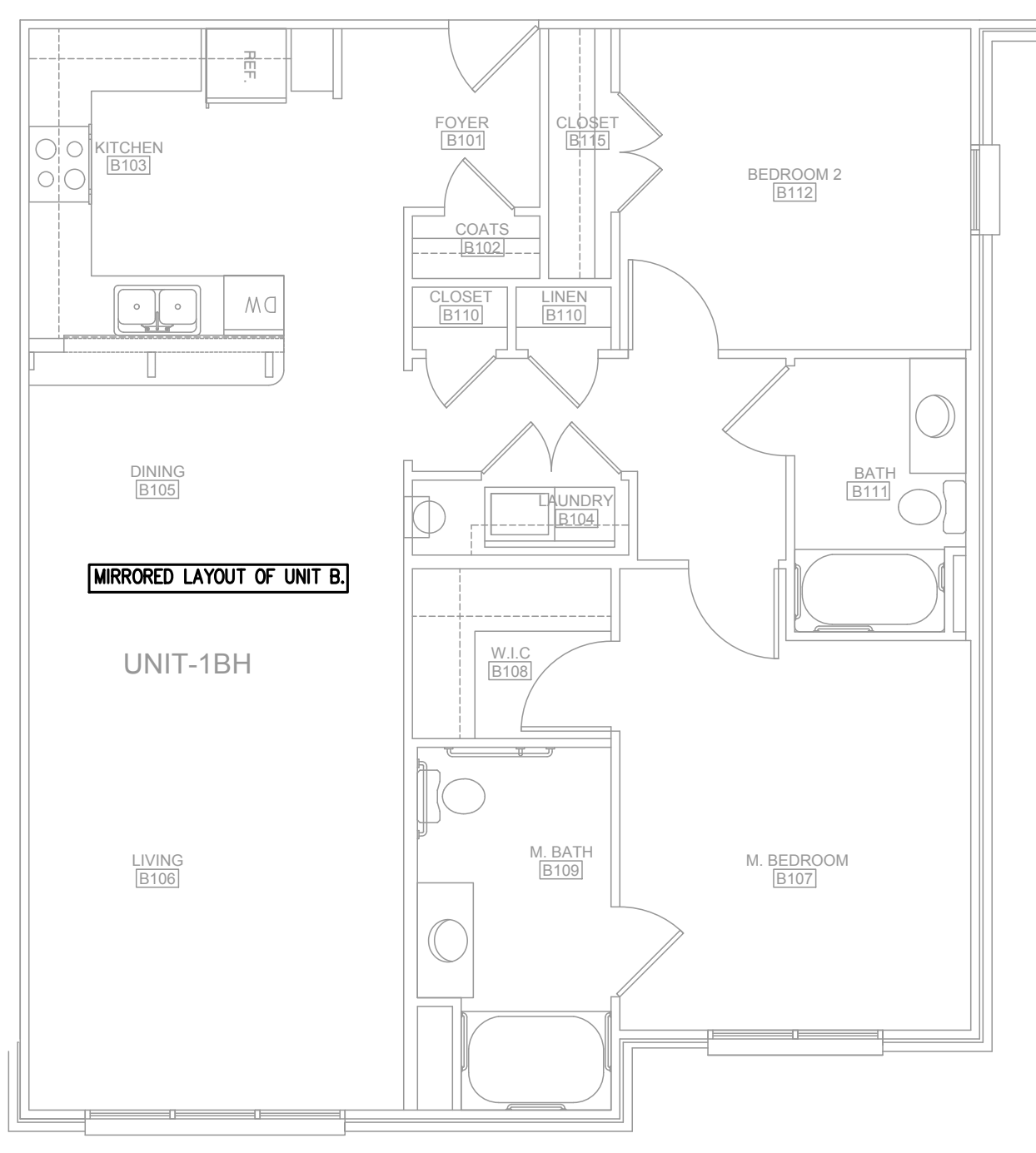
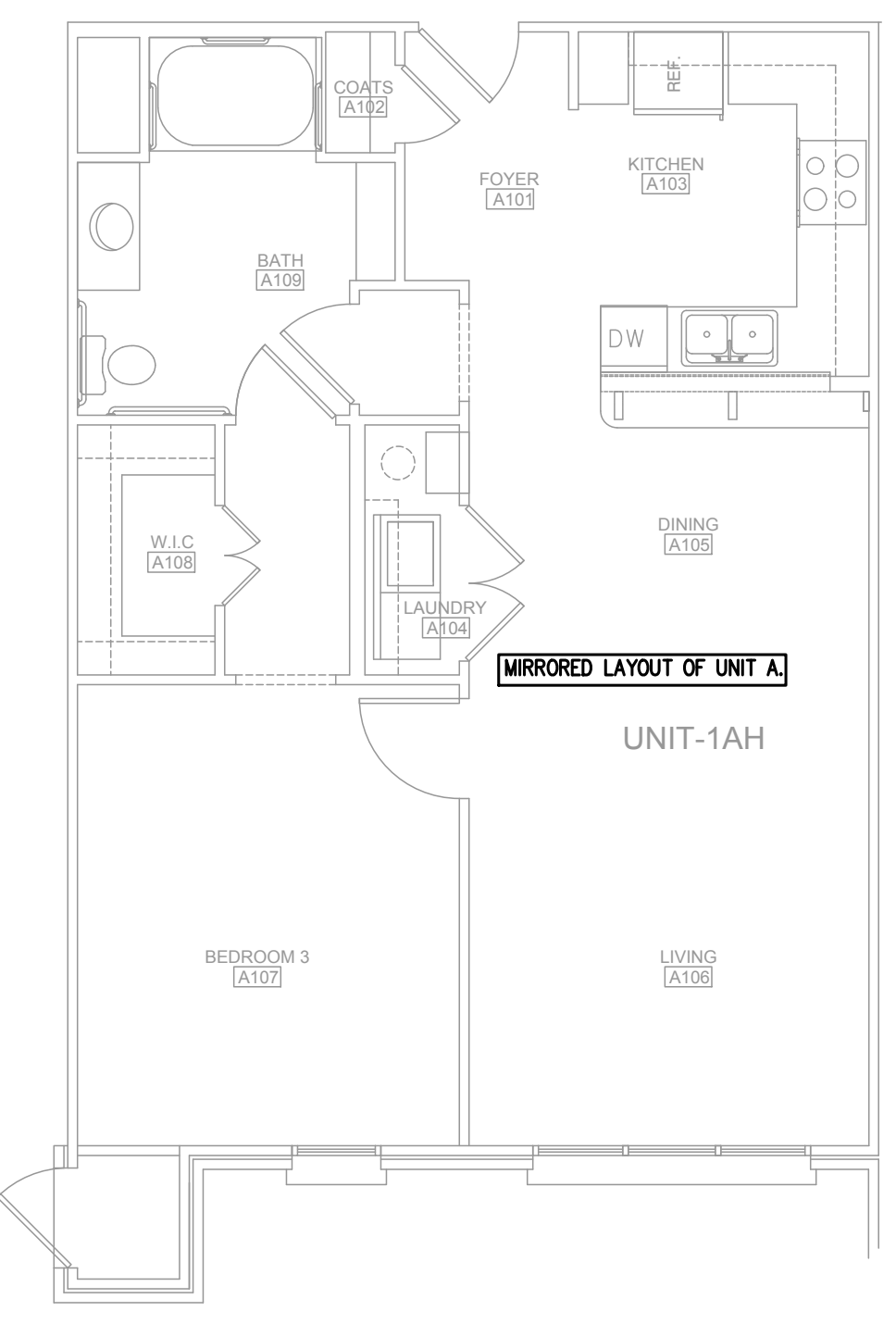
LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS
A	○	(2) 60W	CEILING MTD. INCANDESCENT FIXTURE	CEILING	PROGRESS P4961-30	120	120V 1P 2W
C	○	(1)	CEILING MTD. INCANDESCENT FIXTURE	CEILING	PROGRESS P3735-10	225	120V 1P 2W
D	⌋	(2)	WALL BRACKET FIXTURE	WALL	PROGRESS P3362-10	200	120V 1P 2W
E	○	(2)	CEILING MTD. INCANDESCENT FIXTURE	CEILING	PROGRESS P3412-10	150	120V 1P 2W
EMER	⌋		INJECTION MOLDED EMER. LIGHT, 1.5 HR BATT.	CEILING	LITHONIA 6ELM2	3	120V 1P 2W
EMER-EXIT	⊗	(1)	COMBINATION EXIT/EMERGENCY UNIT W/DUAL SEALED-BEAM REMOTE HEADS	CEILING	LITHONIA LHQM S W 1 R 120/277 ELA NX H0606	3	120V 1P 2W
EXIT	⊗	(1)	LED EXIT FIXTURE, BURNISHED ALUM. HOUSING, 1.5 HR BATT.	CEILING	LITHONIA LES SERIES	3	120V 1P 2W
FAN	⊗	(4)	CEILING FAN	CEILING		300	120V 1P 2W
G	○	(1)	WALL MTD. INCANDESCENT FIXTURE	WALL	PROGRESS 5817-31	60	120V 1P 2W
H	□	(1) LED	CEILING MTD. LED FIXTURE	CEILING	ATLAS NO. VN1256LED OR EQUAL	56	120V 1P 2W
K	⌋	(2)	2'-0" FLUORESCENT STRIP FIXTURE	CEILING	LITHONIA C 2 17 120 GB10IS	34	120V 1P 2W



1
E4 **ELECTRICAL PLAN - UNIT CH**
 3/16"=1'-0"
 NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.

2
E4 **ELECTRICAL PLAN - UNIT DH**
 3/16"=1'-0"
 NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.



3
E4 **ELECTRICAL PLAN - UNIT AH**
 3/16"=1'-0"
 NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.

4
E4 **ELECTRICAL PLAN - UNIT BH**
 3/16"=1'-0"
 NOTE: HANDICAP UNITS ARE FIRST FLOOR ONLY.

- ⌋ STROBE ONLY, TYP.
- ⌋ HORN ONLY, TYP.
- ⌋ STROBE/HORN, TYP.
- ⊗ SMOKE DETECTOR, TYP.
- ⊗ HEAT DETECTOR, TYP.

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THE VILLAGE AT HUNTER'S RUN

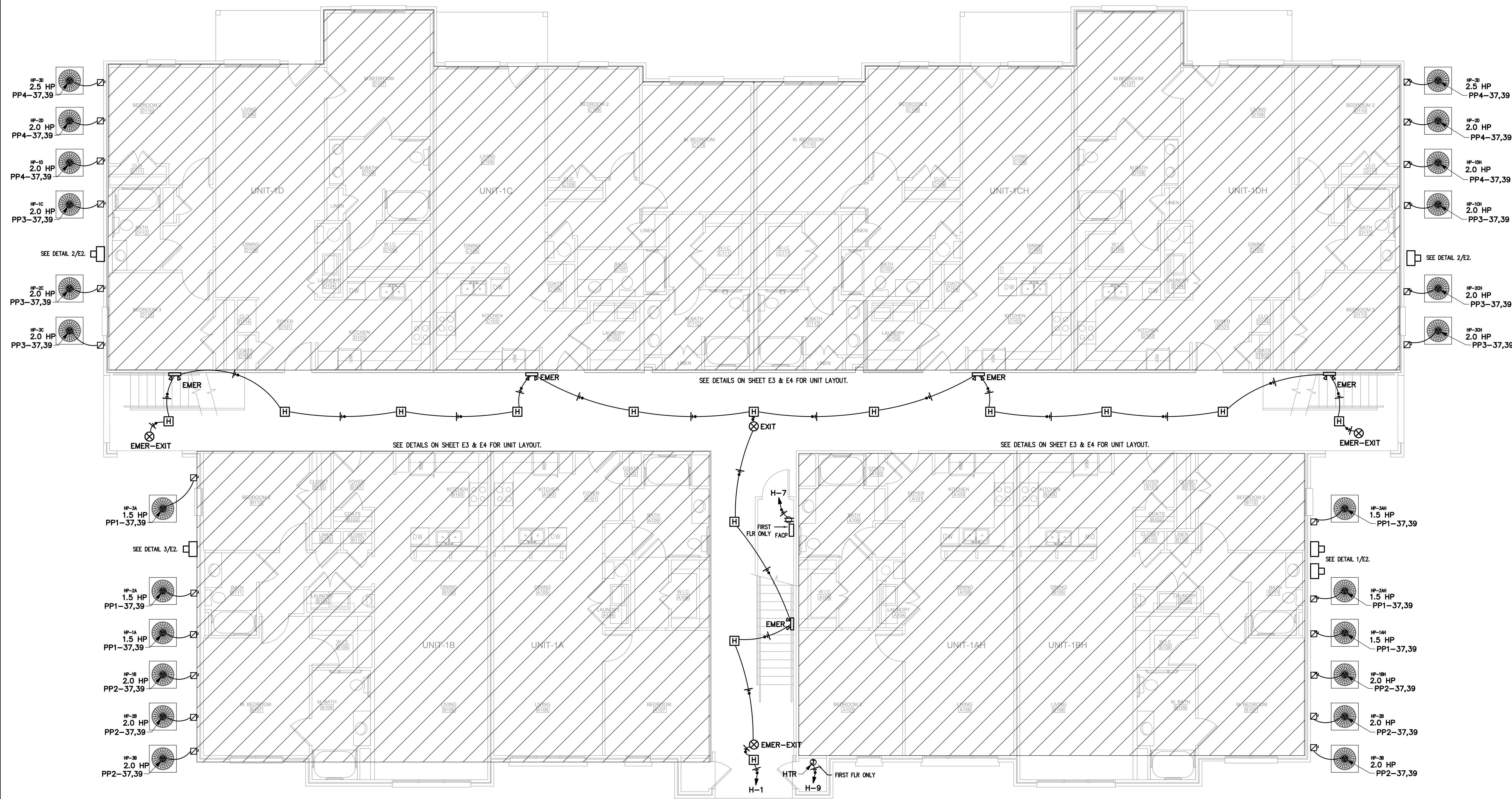
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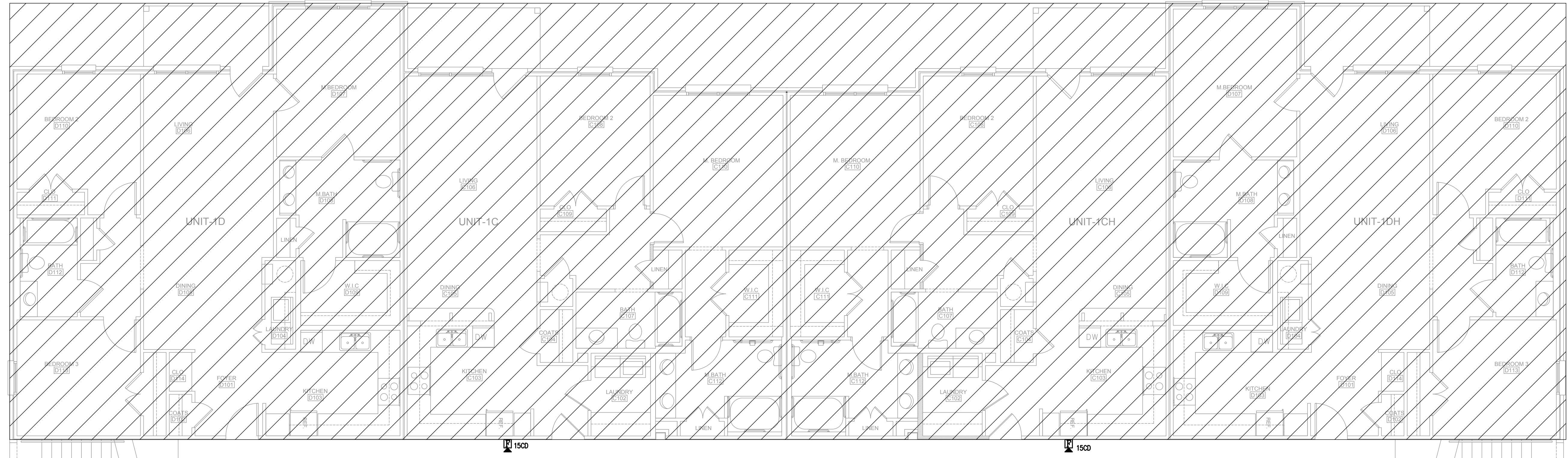
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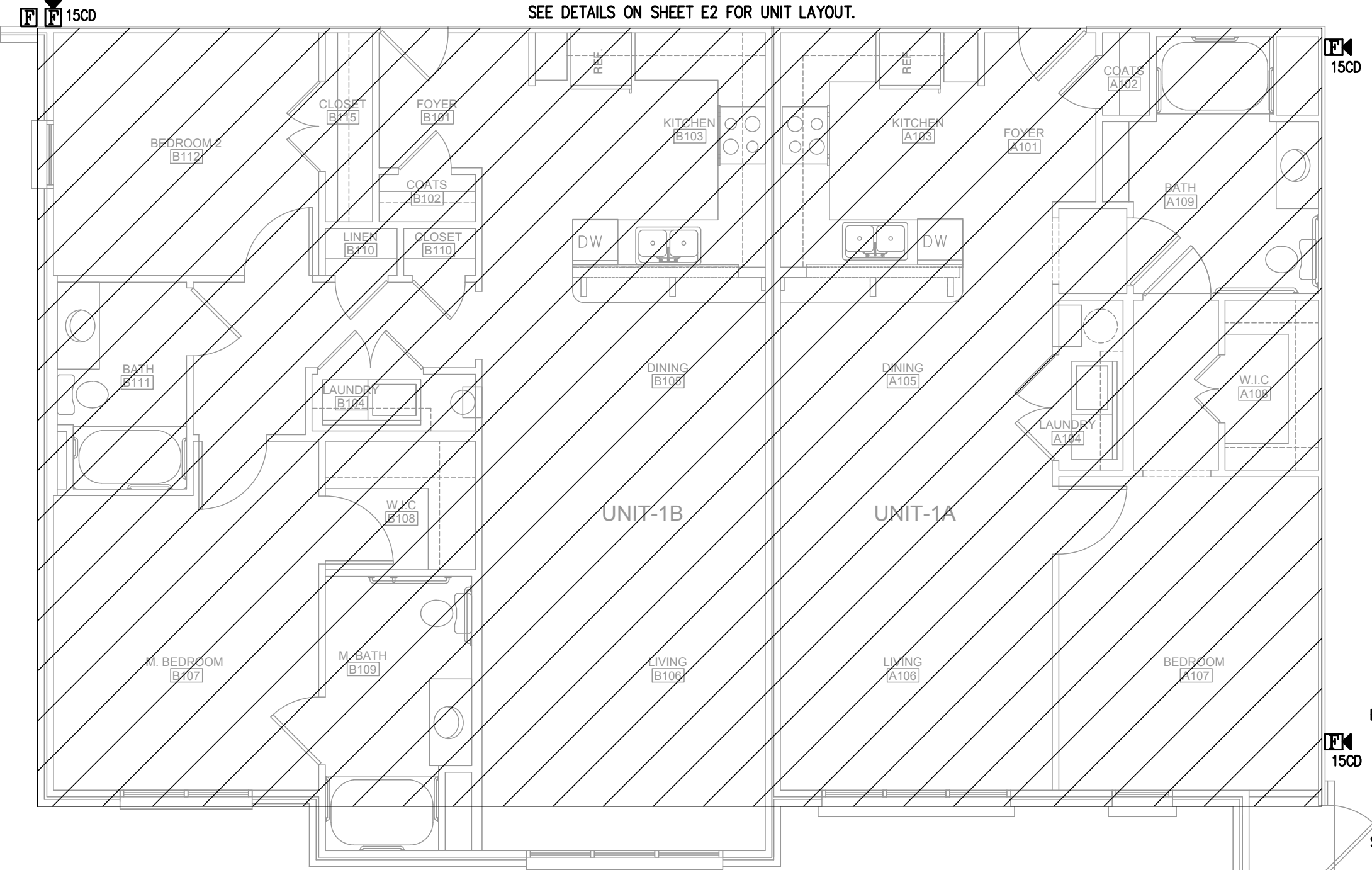
1
E5 ELECTRICAL PLAN - TYP. ALL FLOORS
3/16"=1'-0"



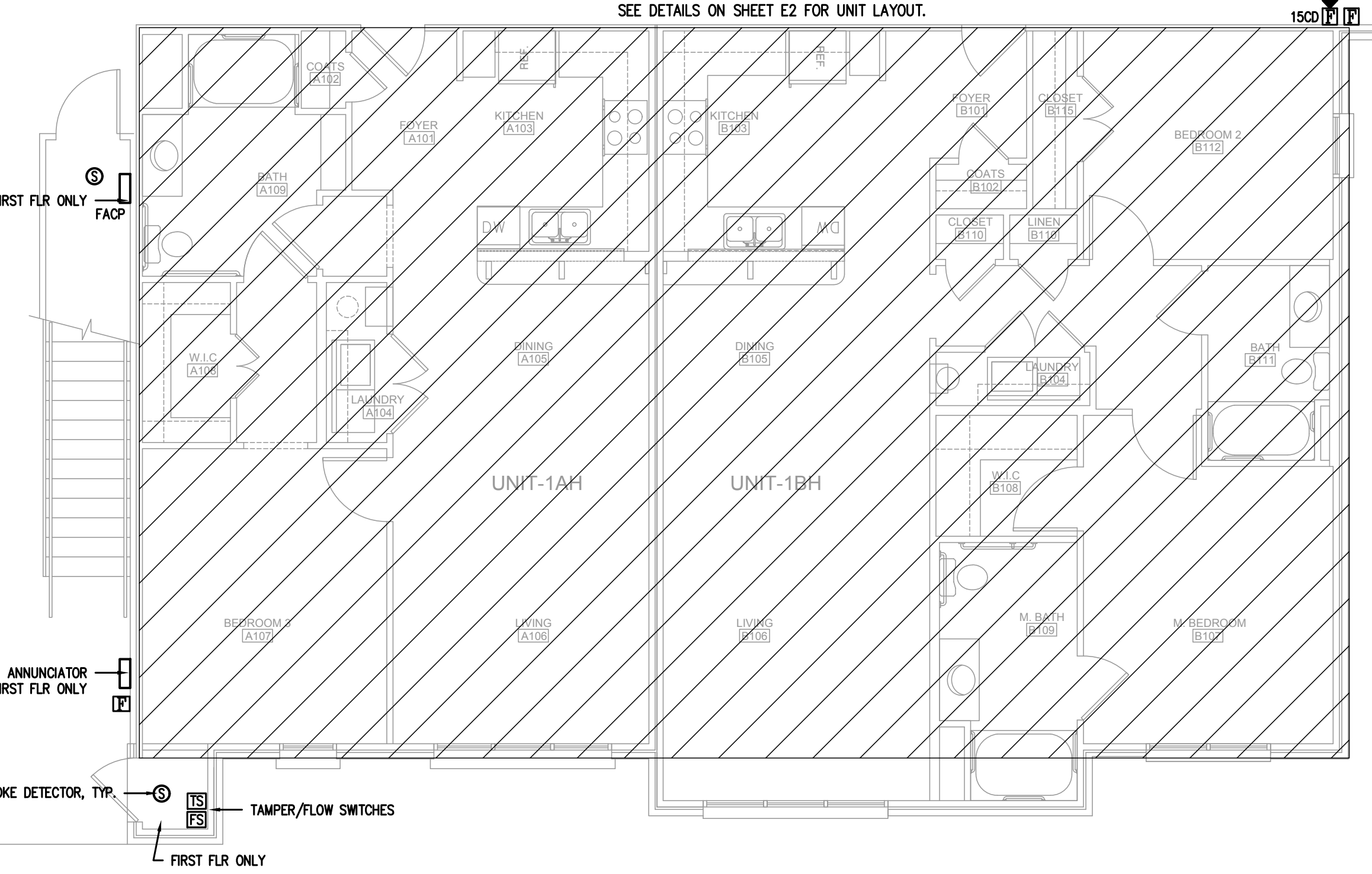
SEE DETAILS ON SHEET E2 FOR UNIT LAYOUT.



SEE DETAILS ON SHEET E2 FOR UNIT LAYOUT.



SEE DETAILS ON SHEET E2 FOR UNIT LAYOUT.



1
FA1 FIRE ALARM PLAN - TYP. ALL FLOORS
3/16"=1'-0"

- STROBE ONLY, TYP.
- HORN ONLY, TYP.
- STROBE/HORN, TYP.
- SMOKE DETECTOR, TYP.
- PULLSTATION, TYP.

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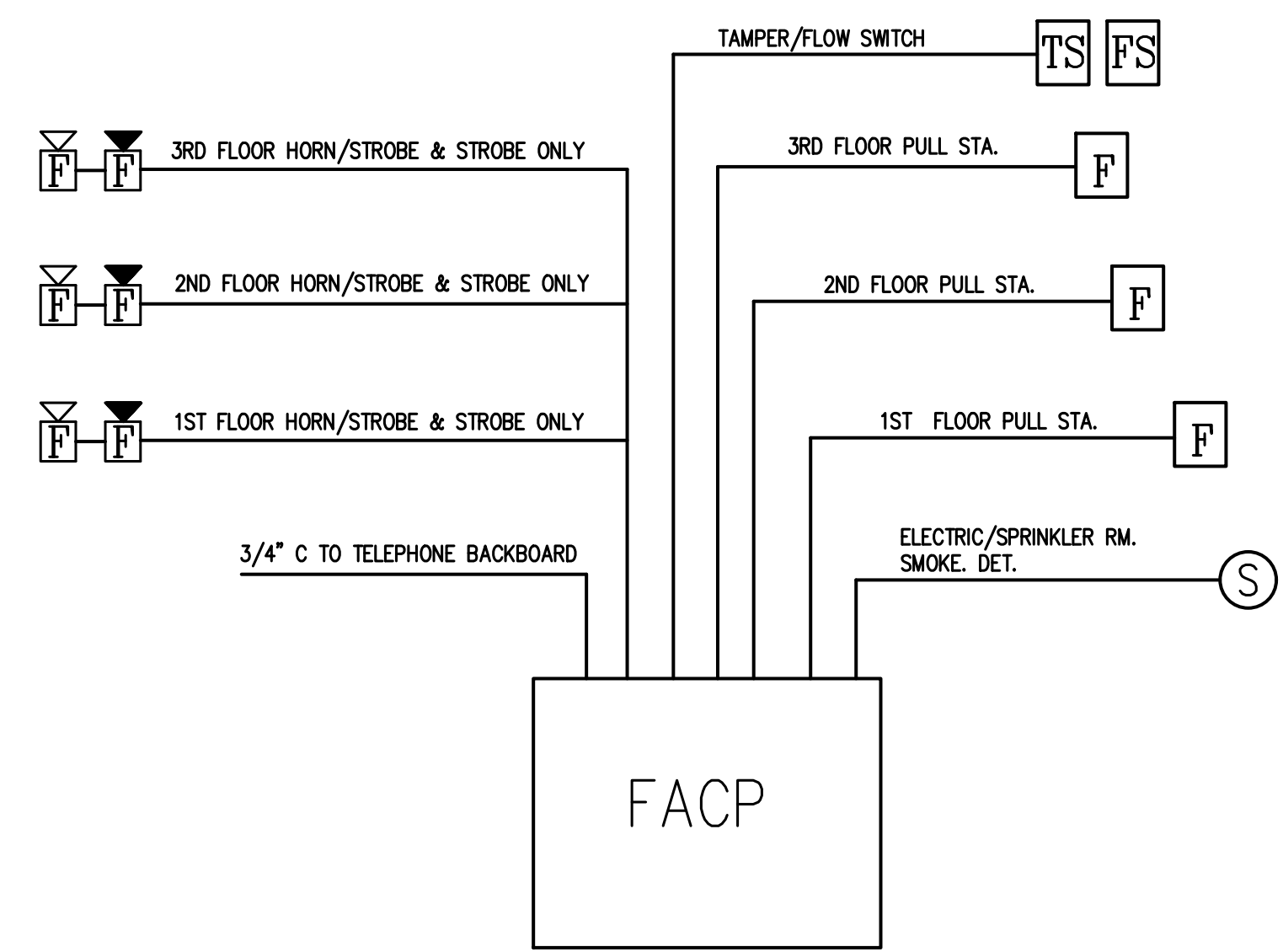
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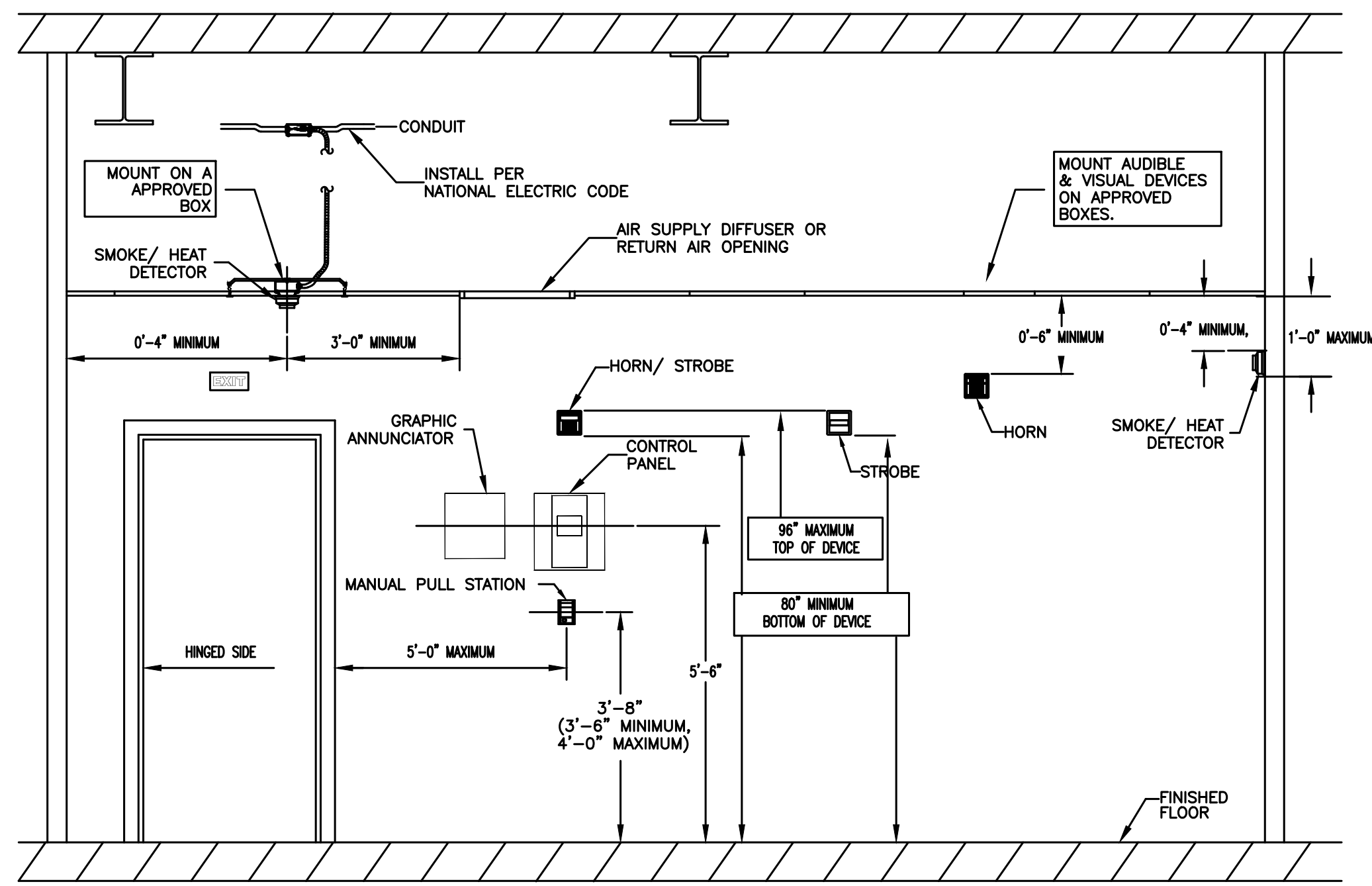
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FA-1



1 FACP RISER
FA2 N.T.S.

NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS



FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 FIRE ALARM SYSTEM AC POWER FAILURE														
2 FIRE ALARM SYSTEM LOW BATTERY														
3 OPEN CIRCUIT														
4 GROUND FAULT														
5 NOTIFICATION APPLIANCE CIRCUIT SHORT														
6 BREEZEWAY MANUAL PULL STATIONS														
7 SMOKE DETECTOR AT FACP														
8 SPRINKLER TAMPER SWITCH														
9 SPRINKLER WATER FLOW IN BUILDING														
10 -														
11 -														

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THE VILLAGE AT HUNTER'S RUN
 PEMBROKE, NORTH CAROLINA

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