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ENERGY SERVICES

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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD R. BEARDMORE
Professional Engineer
No. 14444
Exp. 12/31/2025

3-24-23

A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL

50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

△ REVISIONS:

DATE:
3/24/2023

JOB NO.
696521

DRAWN BY:
Author

SHEET NO.
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Autodesk Docs/Blackwell (Griffin Riley)/Blackwell MEP R22.rvt

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ARCHITECT D 24"x 36"

MECHANICAL SYMBOLS LEGEND

	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)		CHILLED HOT SUPPLY
	WASTE LINE ABOVE EARTH (W.)		CHILLED HOT RETURN
	WASTE LINE IN EARTH (W.)		UNION
	CLEAN OUT		FLEXIBLE PIPE CONNECTION
	FLUSH FLOOR CLEAN OUT		MANUAL DAMPER
	FLUSH GRADE CLEAN OUT		BACKDRAFT DAMPER
	FLOOR DRAIN AND TYPE		AUTOMATIC DAMPER
	ROOF DRAIN		FIRE DAMPER
	OVERFLOW ROOF DRAIN		FIRE/SMOKE DAMPER
	ROOF DRAIN AND TYPE		SMOKE DAMPER
	VENT LINE (V.)		GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
	DOMESTIC COLD WATER SUPPLY (DCW)		VOLUME EXTRACTOR AND TURNING VANES
	DOMESTIC HOT WATER SUPPLY (DHW)		RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
	DOMESTIC HOT WATER RETURN (DHW R)		SUPPLY AIR DUCT SECTION UP AND DOWN
	HOSE BIBB AND MOUNTING HEIGHT		FLEXIBLE DUCT CONNECTION
	WALL HYDRANT		ROUND OR RECTANGULAR DUCT
	FIRE LINE/STANDPIPE		FLEXIBLE DUCT
	DRAIN LINE		THERMOSTAT
	NATURAL GAS LINE		REFRIGERANT LIQUID/SUCTION
	RISE & DROP IN PIPE WITH CUT-OFF VALVE		ACCESS DOOR
	REDUCER		ABOVE FINISHED FLOOR
	CHECK VALVE		EXHAUST AIR
	STOP VALVE		OUTSIDE AIR
	BALANCING VALVE/AUTOFLOW VALVE		RETURN AIR
	PLUG VALVE		SUPPLY AIR
	2-WAY CONTROL VALVE OR SOLENOID VALVE		VENT BELOW SLAB
	3-WAY CONTROL VALVE OR SOLENOID VALVE		VENT THRU ROOF
	PRESSURE REDUCING VALVE		CONNECT NEW TO EXISTING
	STRAINER		LOCKABLE GUARD
	CHILLED WATER SUPPLY		VARIABLE FREQUENCY DRIVE
	CHILLED WATER RETURN		EUH
	HOT WATER SUPPLY		DSS, COOLING ONLY
	HOT WATER RETURN		DSS, HEATING/COOLING

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.

ELECTRICAL SYMBOLS LEGEND

	CONDUIT CONCEALED IN CEILING OR WALL (1 HOT, 1 NEUTRAL, 1 GROUND UNLESS NOTED OTHERWISE)		LOCKABLE GUARD
	CONDUIT CONCEALED IN FLOOR SLAB		JUNCTION BOX
	EXPOSED CONDUIT		SWITCH - SINGLE POLE
	HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES		SWITCH - 3-WAY
	GROUND WIRE		SWITCH - 4-WAY
	GROUNDING ROD		SWITCH - MOTION
	SINGLE RECEPTACLE		CEILING MOUNTED, MOTION SENSING SWITCH
	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)		LIGHT FIXTURE AND TYPE
	DUPLEX RECEPTACLE WITH USB OUTLETS		EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
	SWITCHED DUPLEX RECEPTACLE		FIXTURE ON LIFE SAFETY BRANCH OF EMERGENCY SYSTEM
	FOURPLEX RECEPTACLE		LIGHT FIXTURE (WALL MOUNTED)
	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)		EXIT LIGHT (CEILING OR WALL MOUNTED)
	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE		FLUSH PANELBOARD (LIGHT & RECEPTACLES)
	TELE/DATA OUTLET		SURFACE PANELBOARD (LIGHT & RECEPTACLES)
	PUSHBUTTON		DISTRIBUTION PANEL OR SWITCHBOARD
	VARIABLE FREQUENCY DRIVE		DEVICE LOCATED ABOVE COUNTER
	OVERRIDE TIMER		ABOVE FINISHED FLOOR
	PHOTOCELL		DIMMER
	MOTOR		MOTION SENSING
	FUSIBLE SWITCH (BUSSMAN SSU)		INDICATES EXISTING DEVICE
	DISCONNECT SWITCH (D.S.)		ELECTRIC DRINKING FOUNTAIN
	COMBINATION MOTOR STARTER (CMS)		NIGHTLIGHT FIXTURE, WIRED HOT
	RELAY		WEATHERPROOF
	THERMOSTAT		ARC FAULT CIRCUIT INTERRUPTER
			CONNECT NEW TO EXISTING

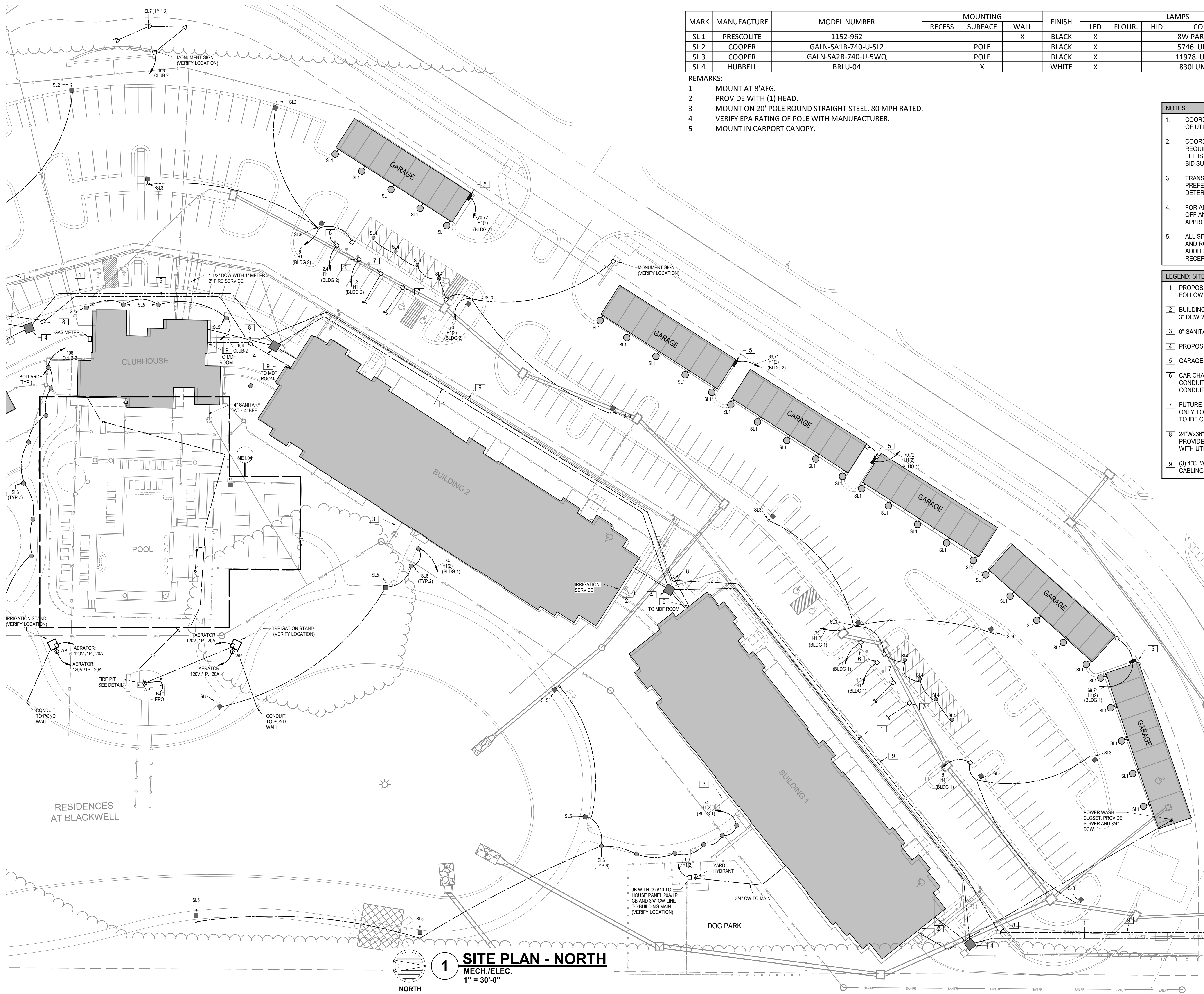
NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS. * 4x4 BACKBOX WITH SINGLE GANG PLASTER RING AND A 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

NFPA SYMBOLS LEGEND

	SMOKE DETECTOR
	SMOKE DETECTOR WITH SOUNDER BASE
	SMOKE DETECTOR WITH ISOLATOR BASE
	HEAT DETECTOR
	DUCT DETECTOR
	ADDRESSABLE MANUAL PULL STATION
	DOOR HOLDER
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	TEST STATION
	MR101C SHUTDOWN RELAY, SPDT WIRED
	AV (WALL MOUNTED) 24 VDC
	STROBE
	BELL ANNUNCIATOR
	HORN/SPEAKER
	FIRE ALARM CONTROL PANEL
	FIREMAN'S PHONE
	AREA RESCUE CALL STATION
	AREA RESCUE MASTER STATION
	SIGNAL ZAM
	CONTROL ZAM
	DETECTOR ZAM
	MONITOR MODULE
	RELAY IAM
	GRAPHIC COMMAND CENTER
	REMOTE FIRE ALARM AUDIO
	REMOTE ANNUNCIATOR WITH AUDIO
	ANNUNCIATOR
	FIRE SMOKE DAMPER
	NAC POWER EXTENDER

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

ALL SYMBOLS SHOWN MAY NOT APPEAR ON THIS PROJECT



MARK	MANUFACTURE	MODEL NUMBER	MOUNTING			FINISH	LAMPS				REMARKS	
			RECESS	SURFACE	WALL		LED	FLOUR.	HID	CODE		QUANTITY
SL 1	PRESCOLITE	1152-962			X	BLACK	X			8W PAR 30 LED	1	1
SL 2	COOPER	GALN-SA1B-740-U-SL2		POLE		BLACK	X			5746LUM/44W	1	2, 3, 4
SL 3	COOPER	GALN-SA2B-740-U-5WQ		POLE		BLACK	X			11978LUM/82W	1	2, 3, 4
SL 4	HUBBELL	BRLU-04		X		WHITE	X			830LUM/15W	1	5

REMARKS:

- 1 MOUNT AT 8' AFG.
- 2 PROVIDE WITH (1) HEAD.
- 3 MOUNT ON 20' POLE ROUND STRAIGHT STEEL, 80 MPH RATED.
- 4 VERIFY EPA RATING OF POLE WITH MANUFACTURER.
- 5 MOUNT IN CARPORT CANOPY.

- | NOTES: | |
|--------|--|
| 1. | COORDINATE WITH CIVIL PLANS FOR EXACT LOCATIONS OF UTILITIES, SITE FEATURES AND GRADE. |
| 2. | COORDINATE WITH UTILITY PROVIDERS. INCLUDE ALL REQUIREMENTS AND FEES WITHIN THE BID WORK. IF NO FEE IS AVAILABLE, PROVIDE AN ALLOWANCE AND LIST ON BID SUBMISSION. |
| 3. | TRANSFORMER LOCATIONS ARE AS SUGGESTED AND PREFERRED. POWER COMPANY WILL MAKE FINAL DETERMINATION. |
| 4. | FOR ANY GAS SERVICES, PROVIDE STEEL RISER, SHUT-OFF AND APPROPRIATE PRV AT APPLIANCES IF APPROPRIATE. |
| 5. | ALL SITE LIGHTING IS #10 WIRE IN 1" MIN. PVC CONDUIT AND ROUTE THROUGH PHOTOCELL/TIMER. PROVIDE ADDITIONAL HOT LEG ON SAME CIRCUIT FOR POLE ABASE RECEPTACLE. |

- LEGEND: SITE
- | | |
|---|---|
| 1 | PROPOSED POWER PRIMARY - TELECOM TYPICALLY FOLLOWS THIS. |
| 2 | BUILDING WATER SERVICE:
3" CDW WITH 2" METER AND 4" FIRE. |
| 3 | 6" SANITARY AT = 5' BFF. |
| 4 | PROPOSED TRANSFORMER. |
| 5 | GARAGE SERVICE PANEL FED FROM HOUSE PANEL. |
| 6 | CAR CHARGING LOCATION WITH (2) #8, (1) #10 IN 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET. |
| 7 | FUTURE CAR CHARGING LOCATION WITH 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET. |
| 8 | 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLEING, VESITY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS |
| 9 | 3" 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLEING AT 36" MINIMUM BELOW GRADE |

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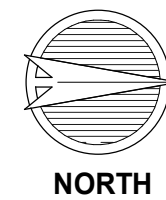
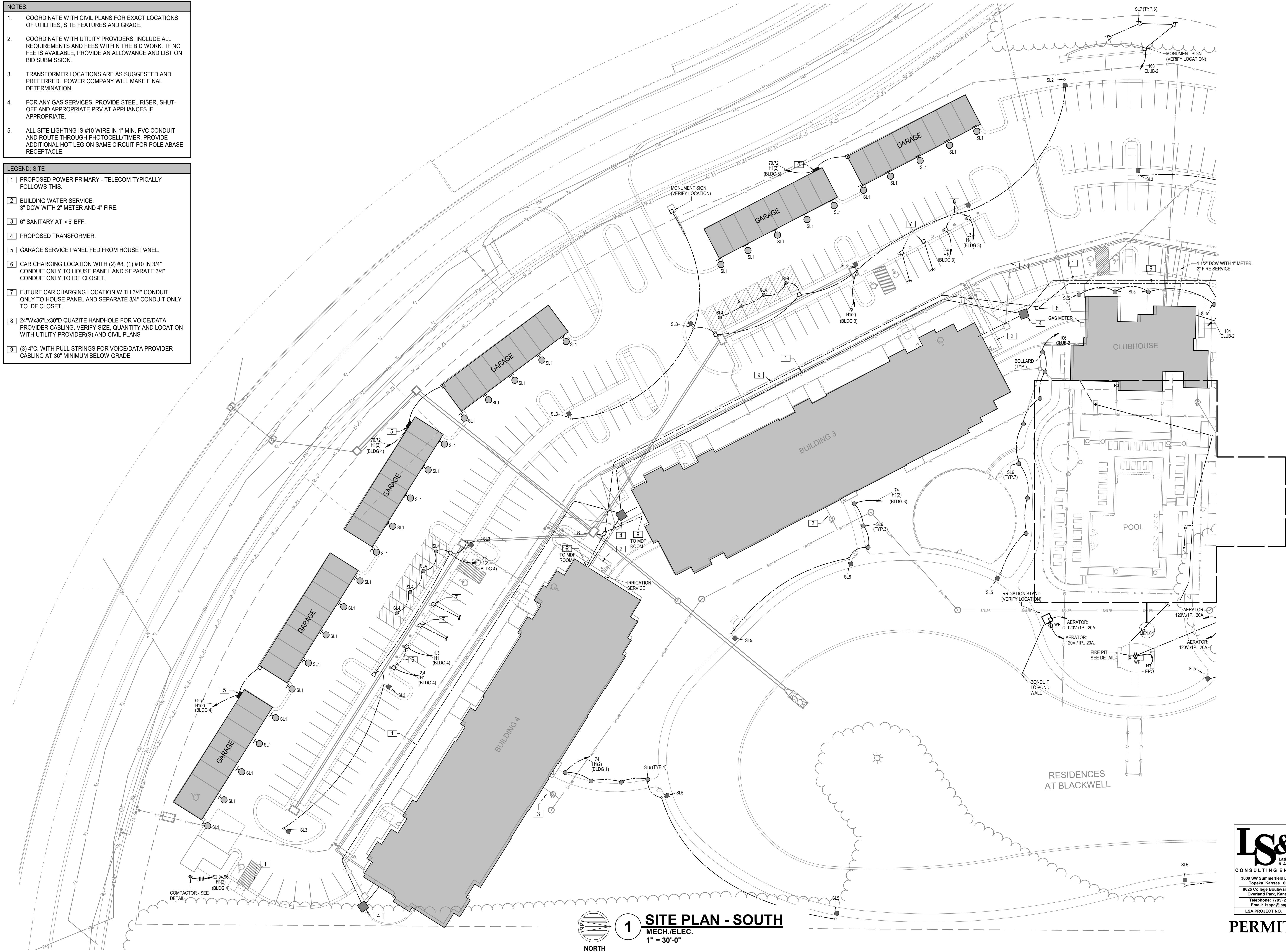
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- 8 24"Wx36"Lx30"D QUARTZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
- 9 (3) 4"C. WITH FULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE



1

SITE PLAN - SOUTH

MECH./ELEC.
1" = 30'-0"



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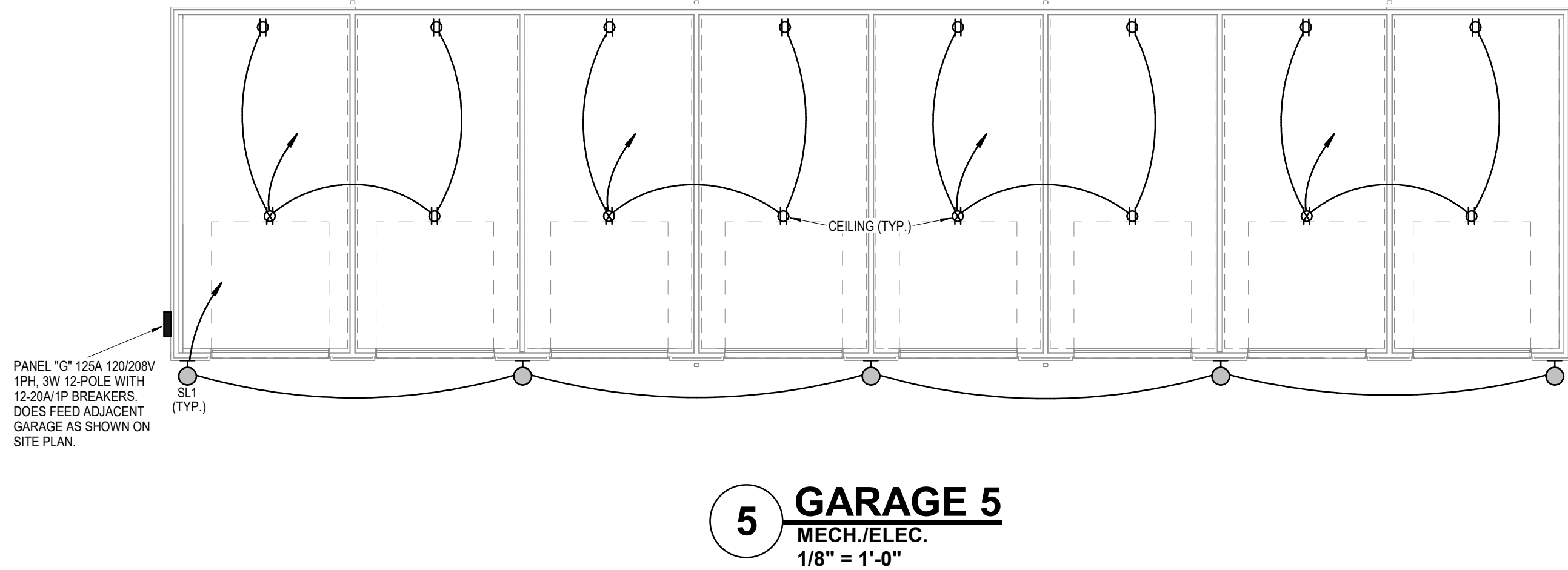
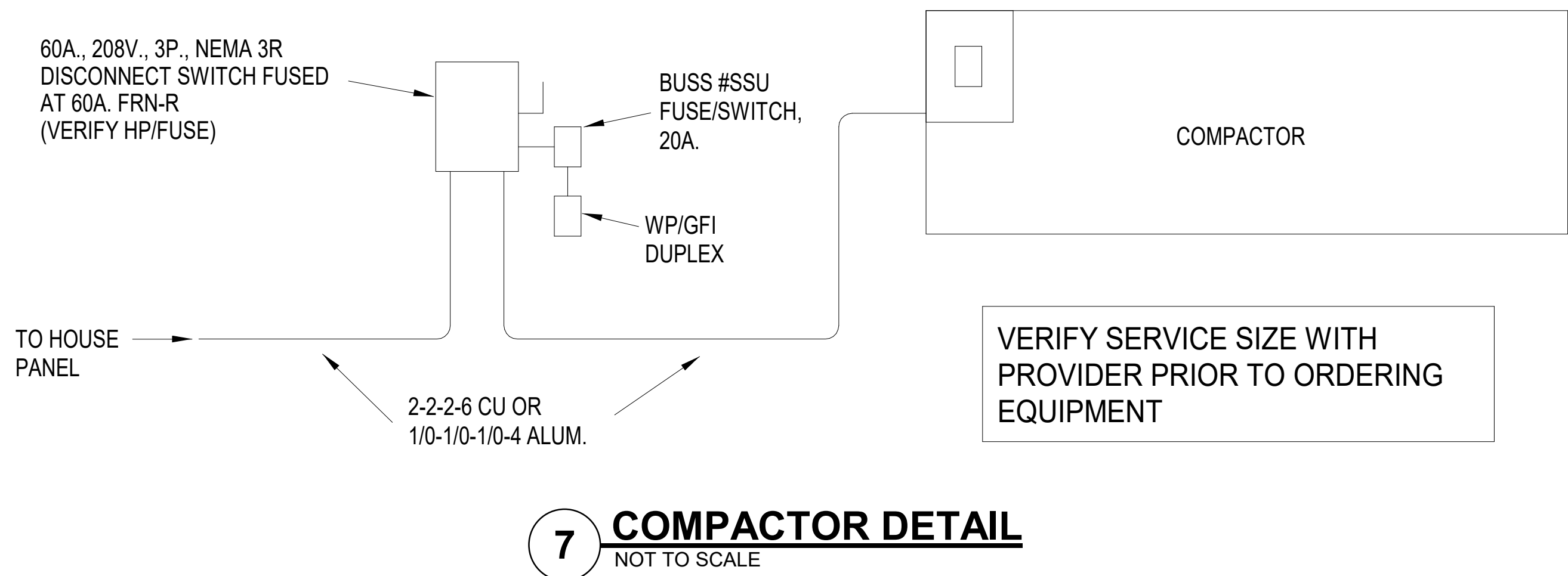
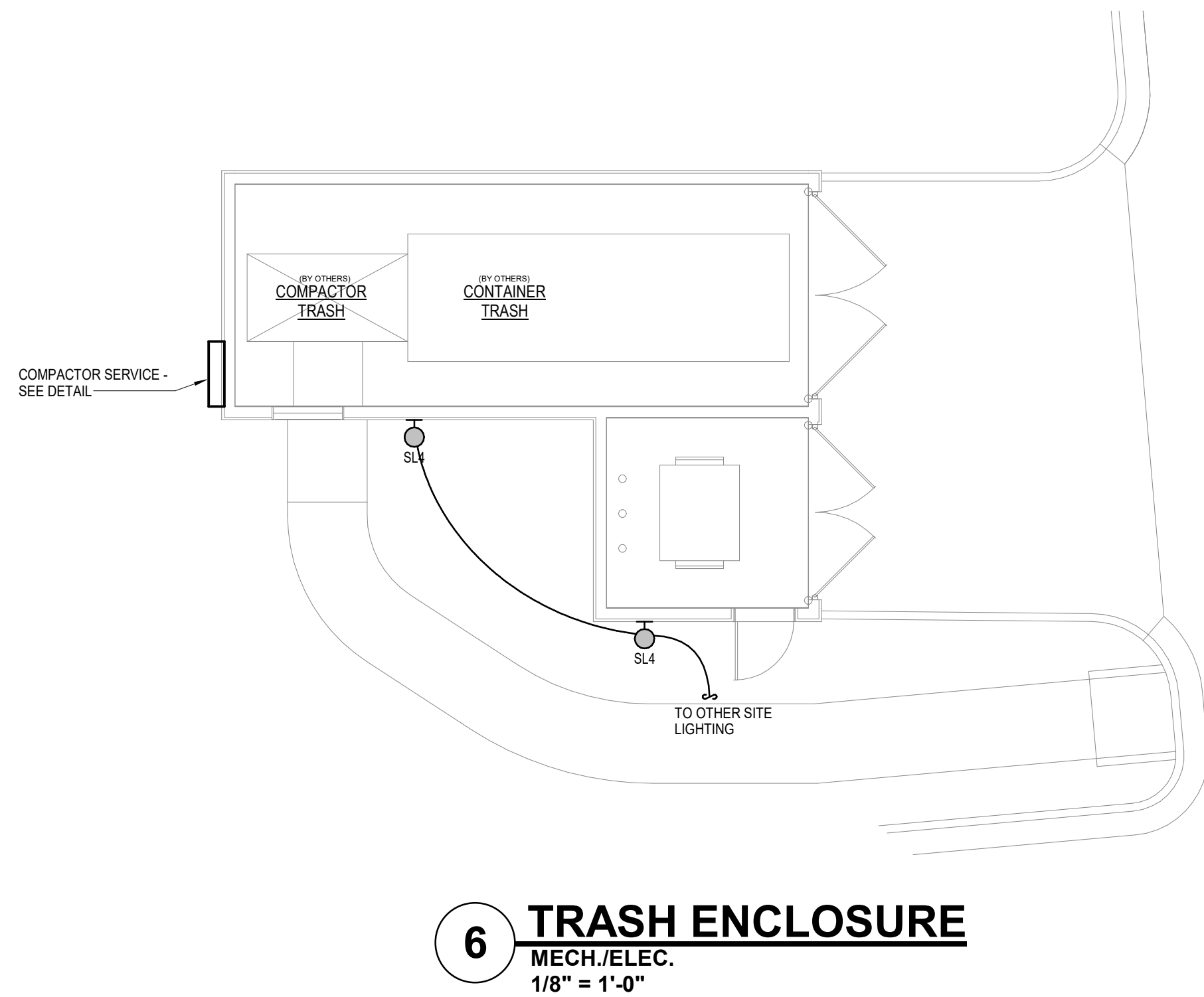
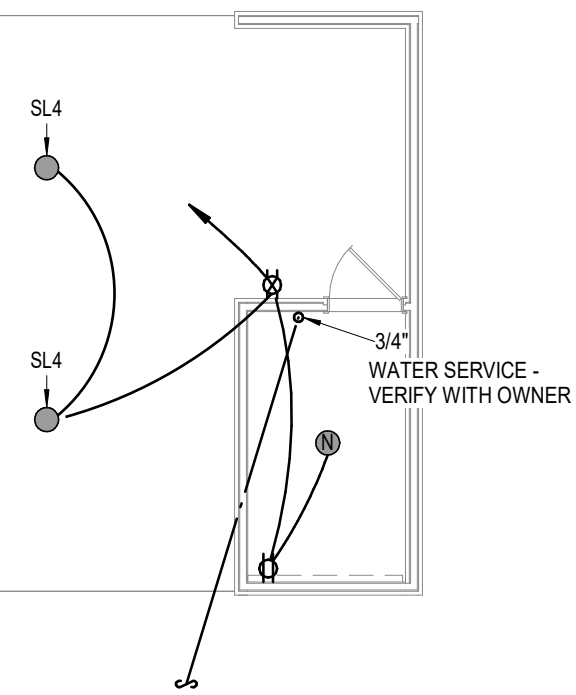
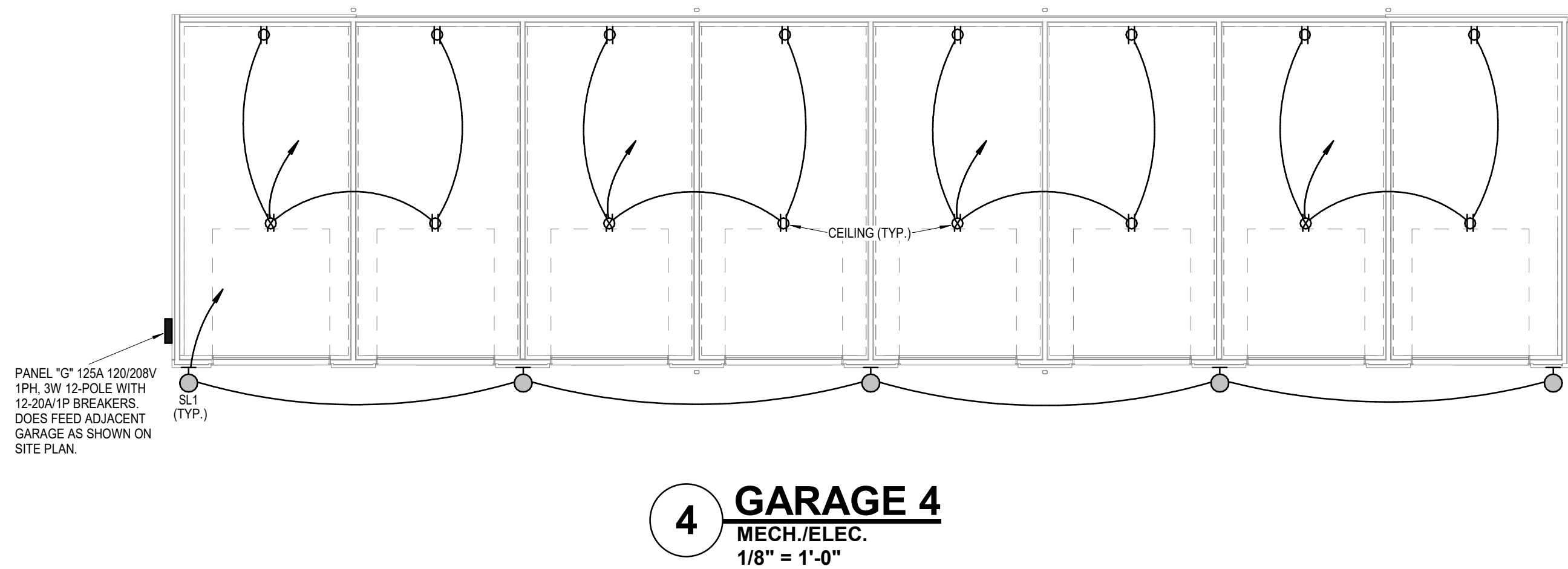
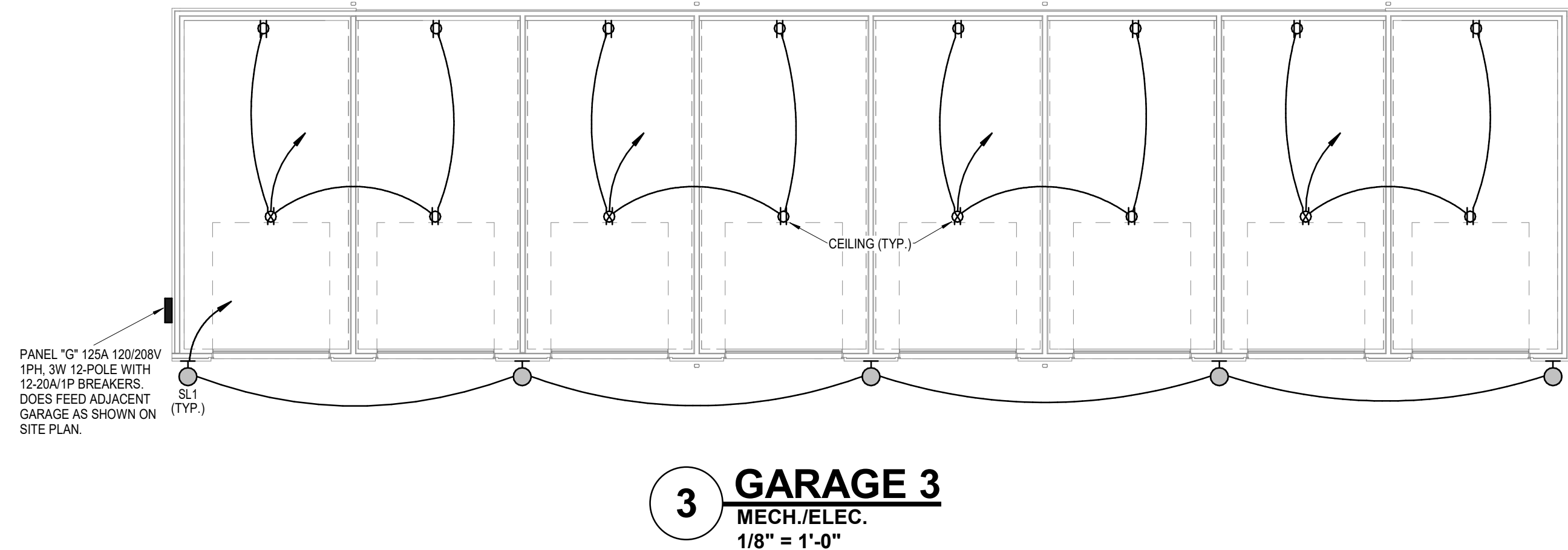
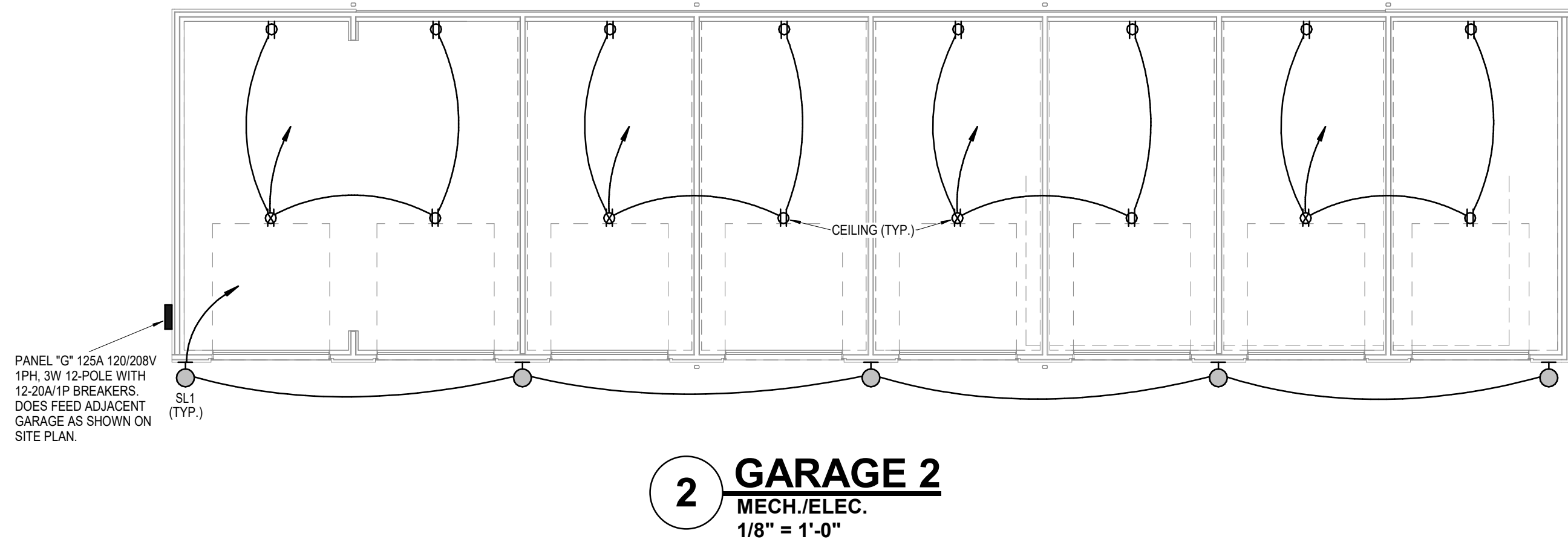
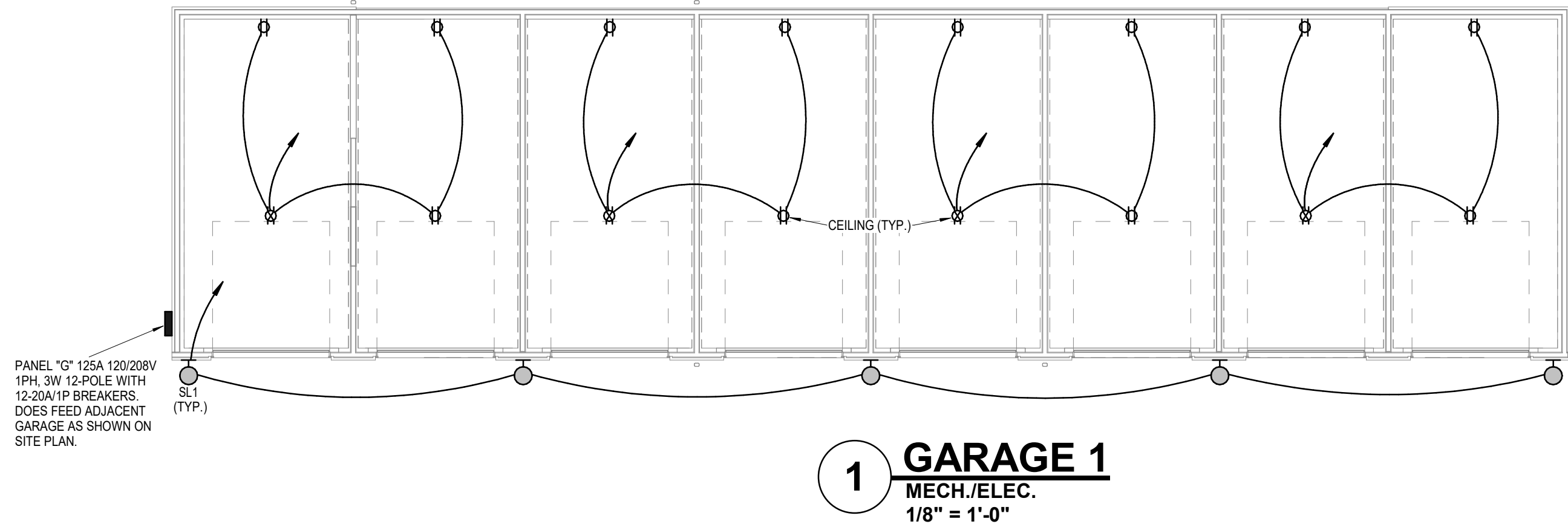
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- | LEGEND: | |
|---------|--------------------------------------|
| ① | CLASS 1 MANUAL STANDPIPE WITH VALVE |
| ② | 3/4" UP TO ROOF HYDRANT - SEE DETAIL |



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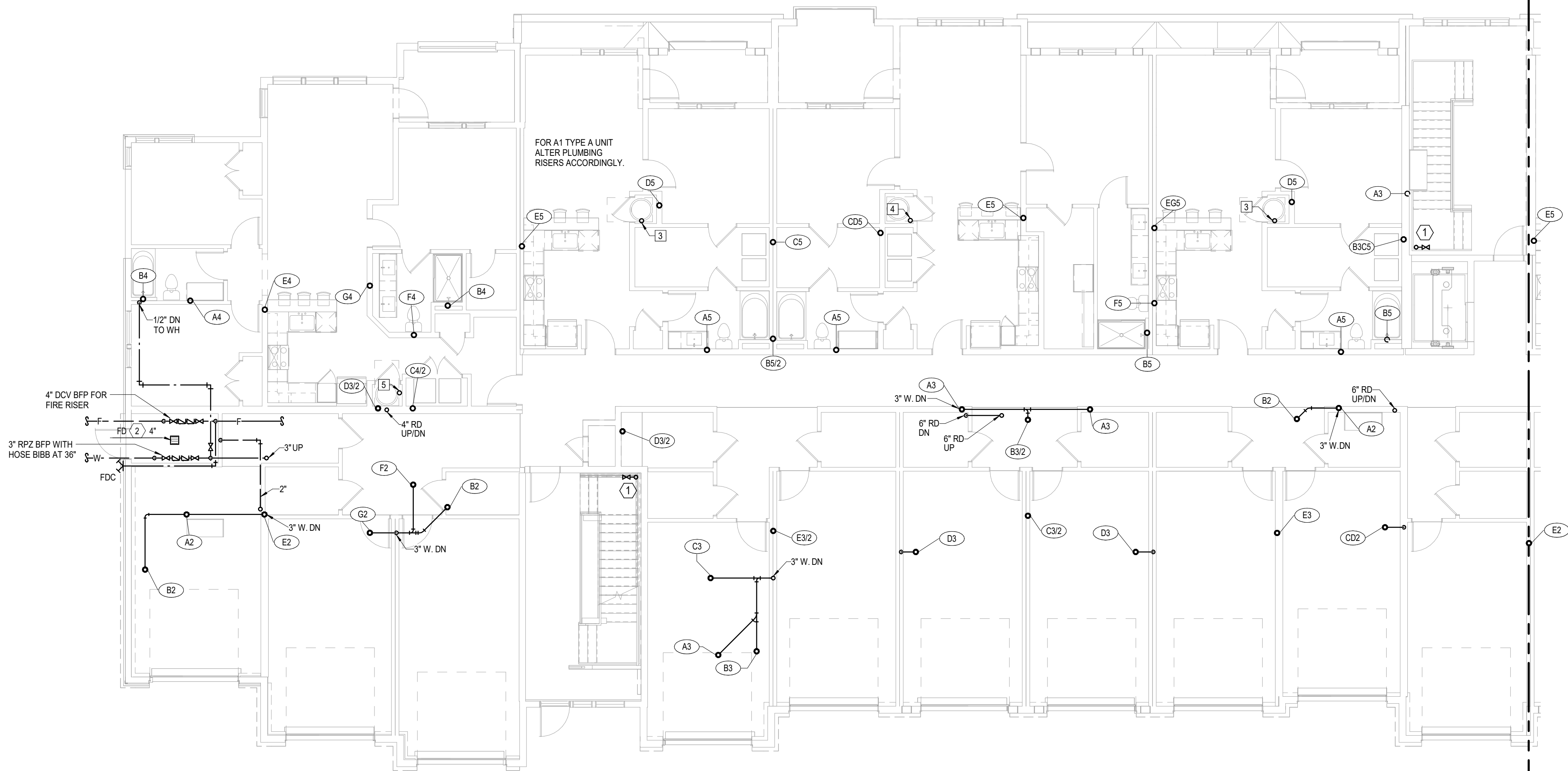

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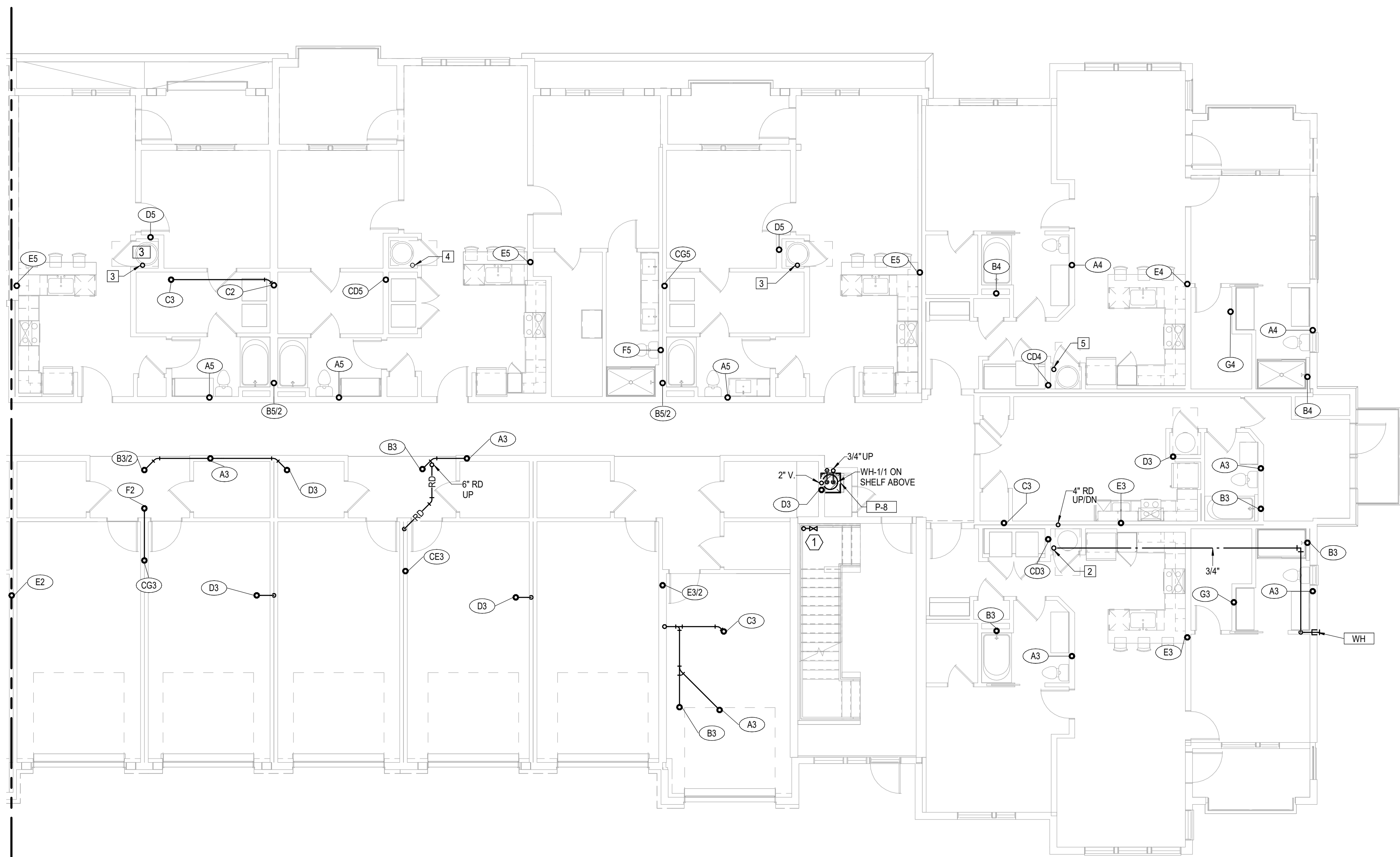


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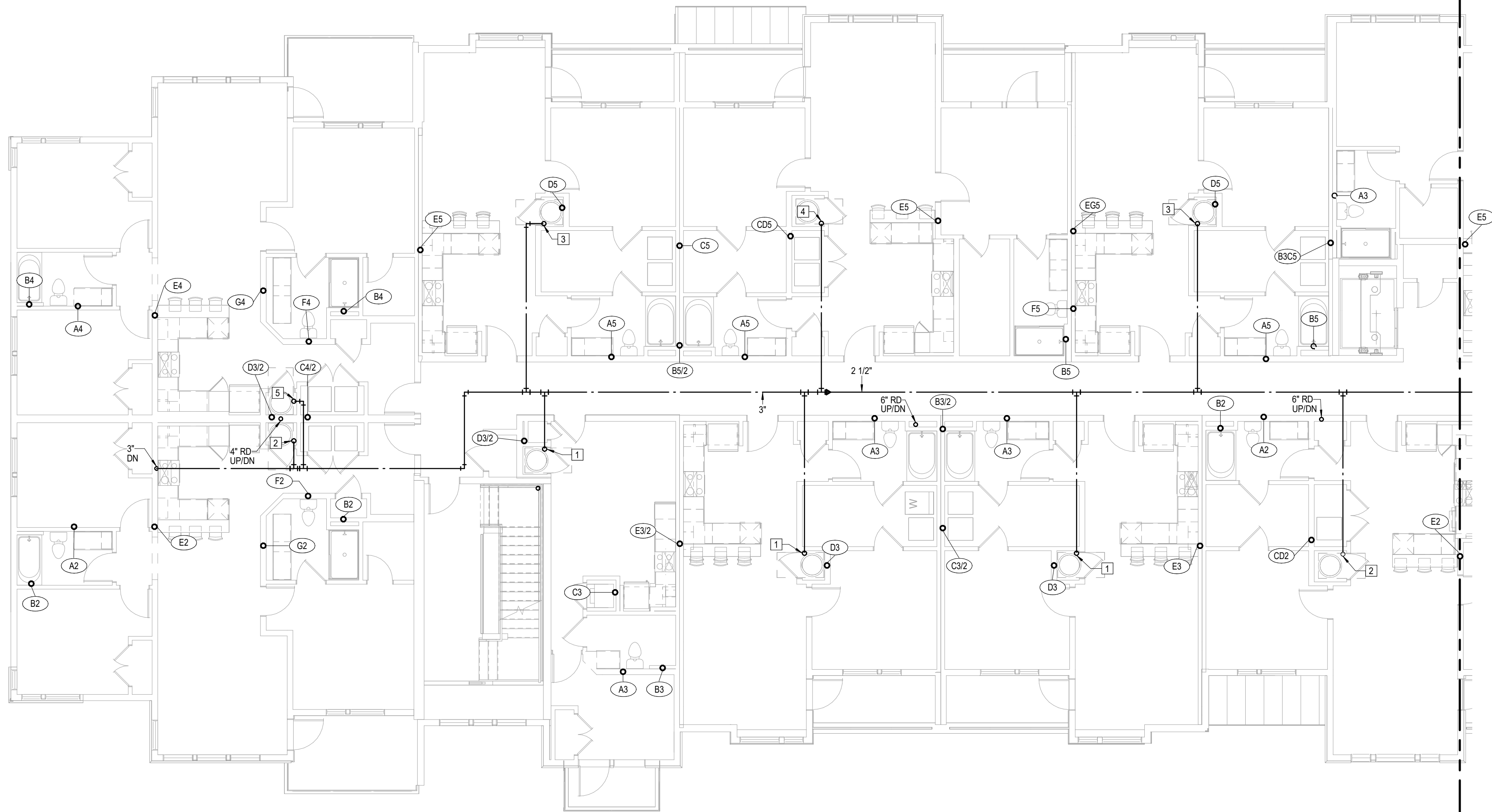
1 1ST FLOOR BUILDING PLAN - A
PLUMBING
1/8" = 1'-0"



2 1ST FLOOR BUILDING PLAN - B
PLUMBING
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 - ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 - ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
 - CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
 - THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 - ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 - SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 - ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS. DRAINS ARE 2" TYPE 1 U.N.O.
 - ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 - FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE. SEE ARCHITECTURAL CODE PLAN.

- LEGEND:**
- ① CLASS 1 MANUAL STANDPIPE WITH VALVE
 - ② 3/4" UP TO ROOF HYDRANT - SEE DETAIL



1 2ND FLOOR BUILDING PLAN - A
PLUMBING
1/8" = 1'-0"



2 2ND FLOOR BUILDING PLAN - B
PLUMBING
1/8" = 1'-0"

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- LEGEND:
- 1 CLASS 1 MANUAL STANDPIPE WITH VALVE
 - 2 3/4" UP TO ROOF HYDRANT - SEE DETAIL



- | LEGEND: | |
|---------|--------------------------------------|
| ① | CLASS 1 MANUAL STANDPIPE WITH VALVE |
| ② | 3/4" UP TO ROOF HYDRANT - SEE DETAIL |



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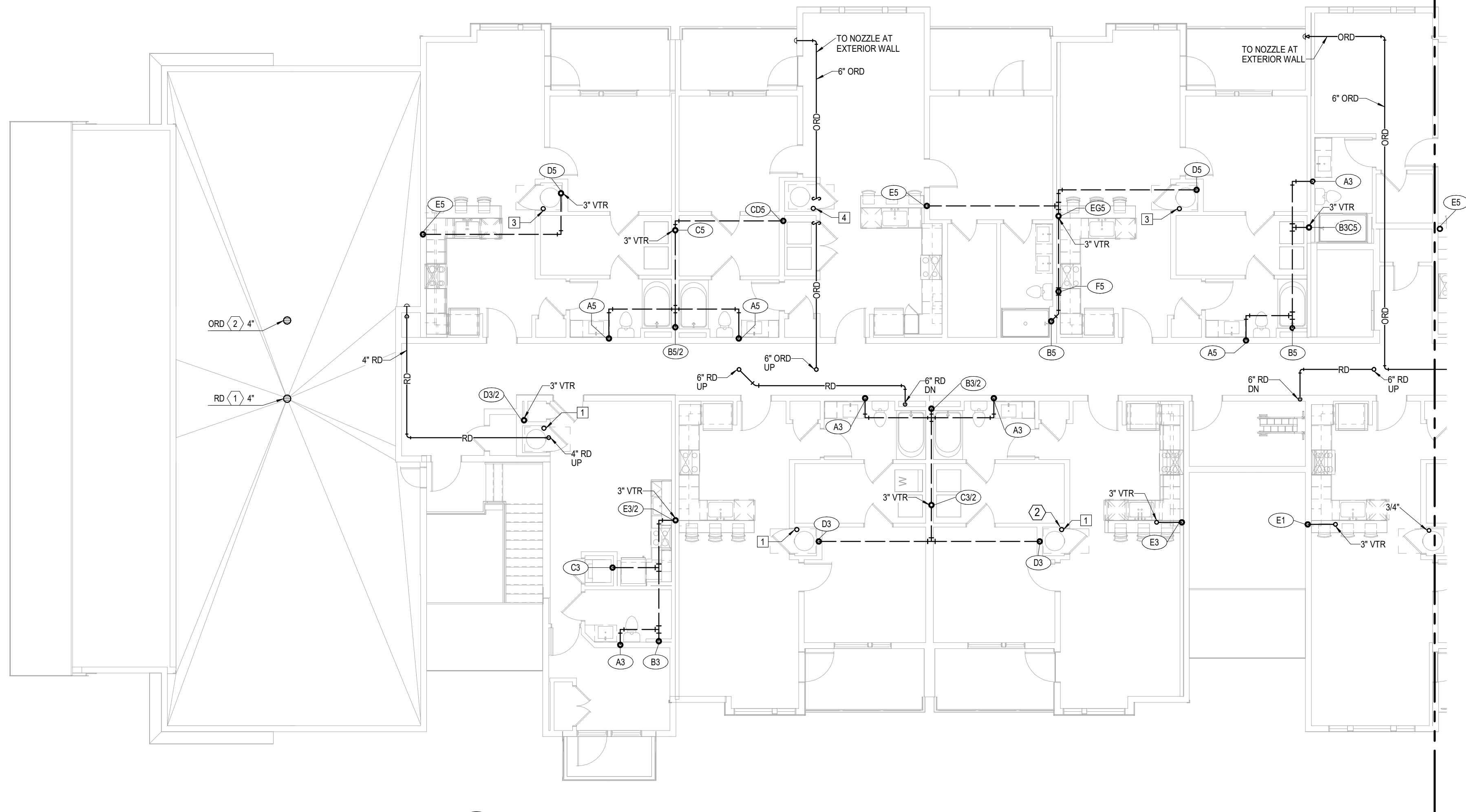

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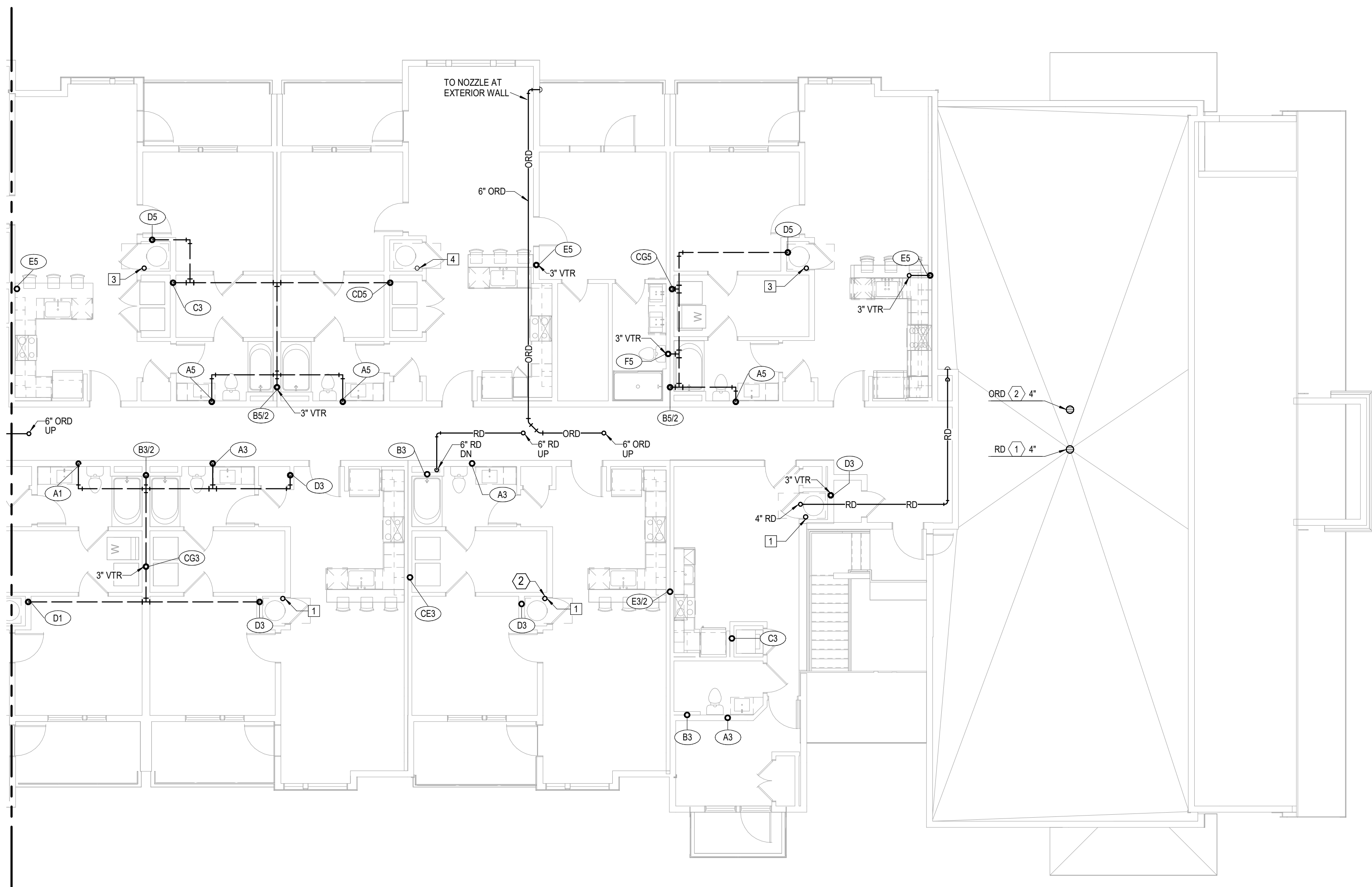


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1 4TH FLOOR BUILDING PLAN -B
PLUMBING
1/8" = 1'-0"



2 4TH FLOOR BUILDING PLAN -B
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LEGEND:	
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②	3/4" UP TO ROOF HYDRANT - SEE DETAIL

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5.

CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6.

THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
7.

ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8.

SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
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- LEGEND:
- 1

CLASS 1 MANUAL STANDPIPE WITH VALVE
- 2

3/4" UP TO ROOF HYDRANT - SEE DETAIL

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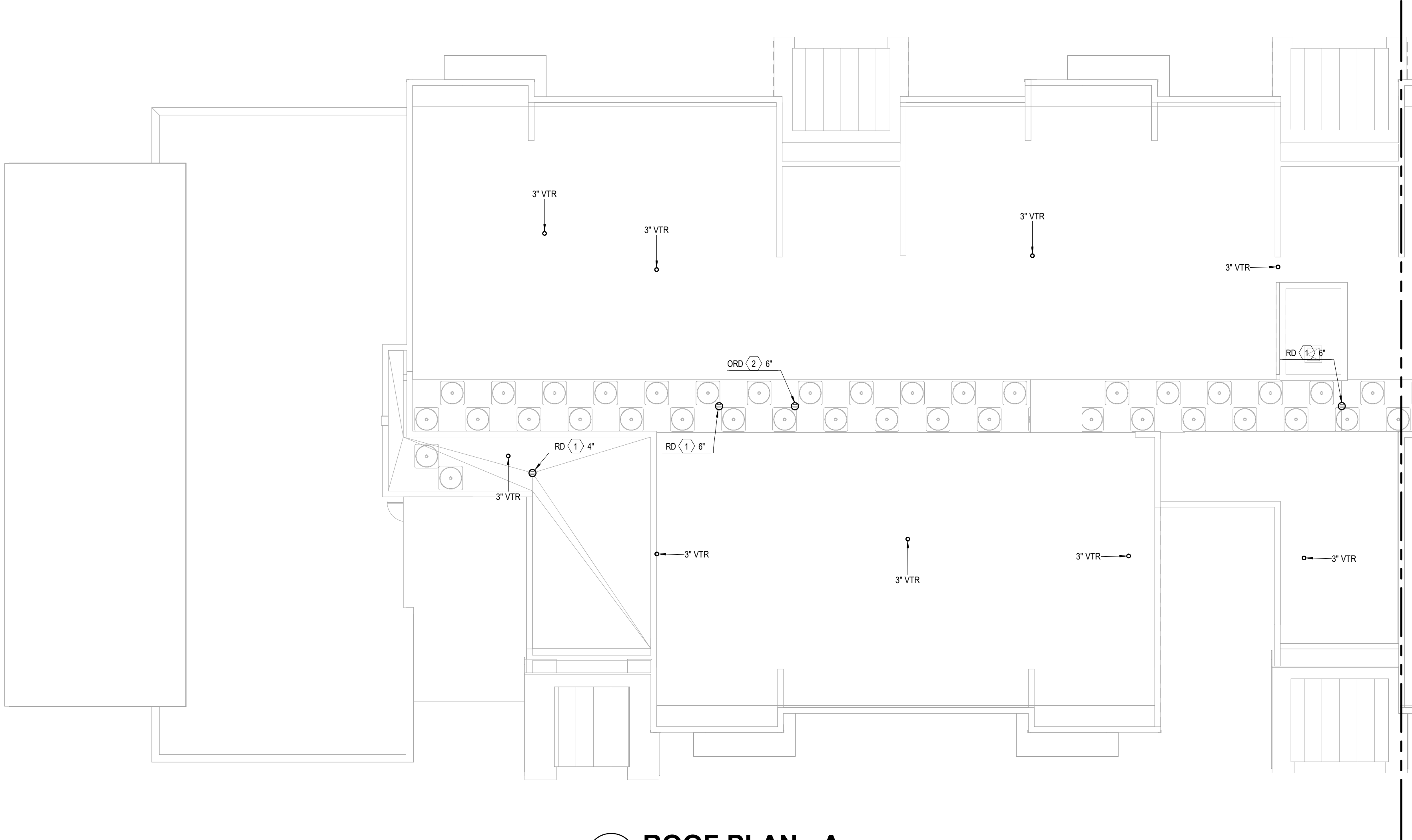
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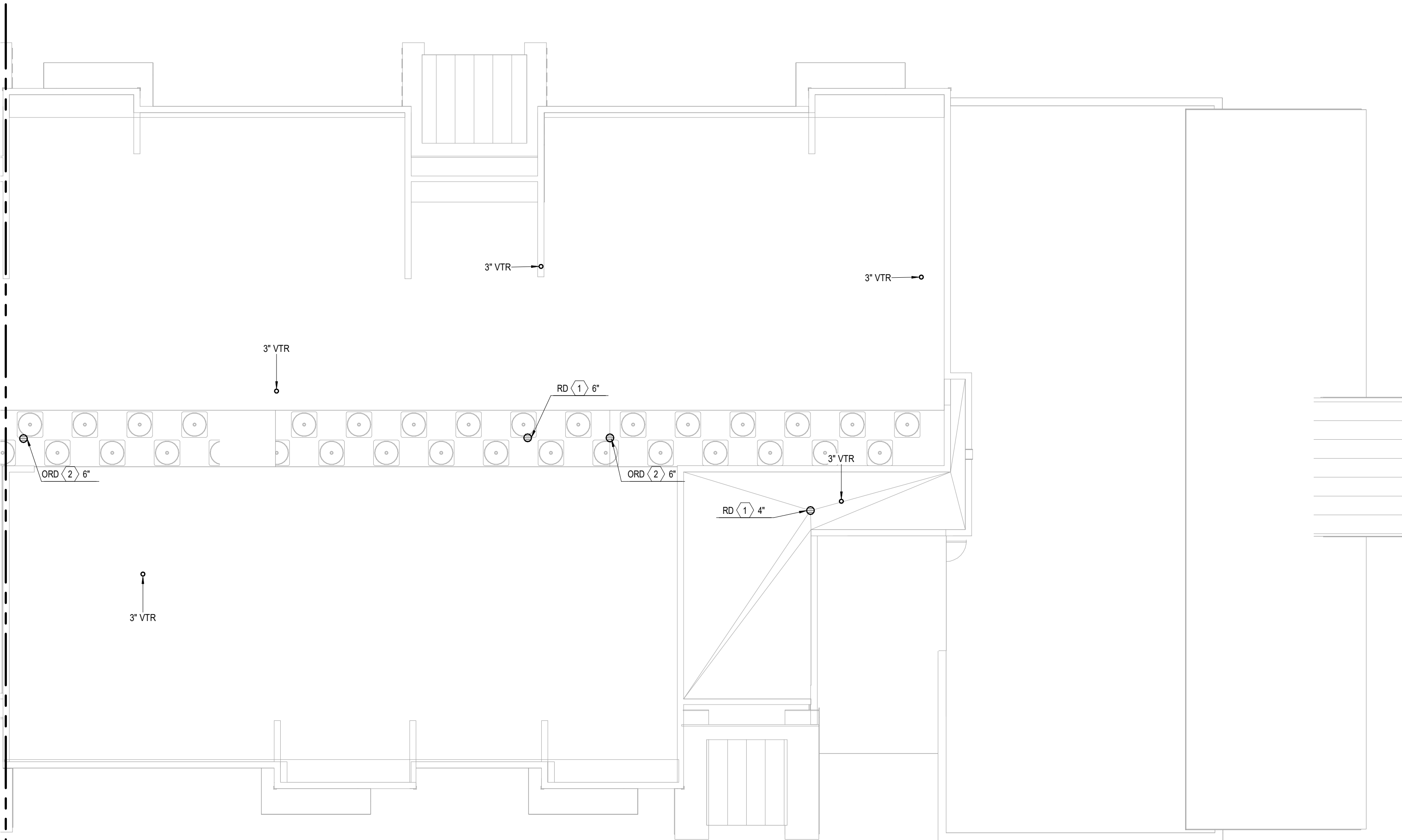
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1 **ROOF PLAN - A**
PLUMBING
1/8" = 1'-0"



2 **ROOF PLAN - B**
PLUMBING
1/8" = 1'-0"



- | LEGEND: | |
|---------|--------------------------------------|
| ① | CLASS 1 MANUAL STANDPIPE WITH VALVE |
| ② | 3/4" UP TO ROOF HYDRANT - SEE DETAIL |



3-24-23

**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO

 DRAWING RELEASE LOG

△ REVISIONS:



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3/24/2023
JOB NO.
696521
DRAWN BY:
Author
SHEET NO.



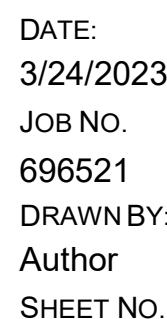
- | LEGEND: | |
|---------|--------------------------------------|
| ① | CLASS 1 MANUAL STANDPIPE WITH VALVE |
| ② | 3/4" UP TO ROOF HYDRANT - SEE DETAIL |



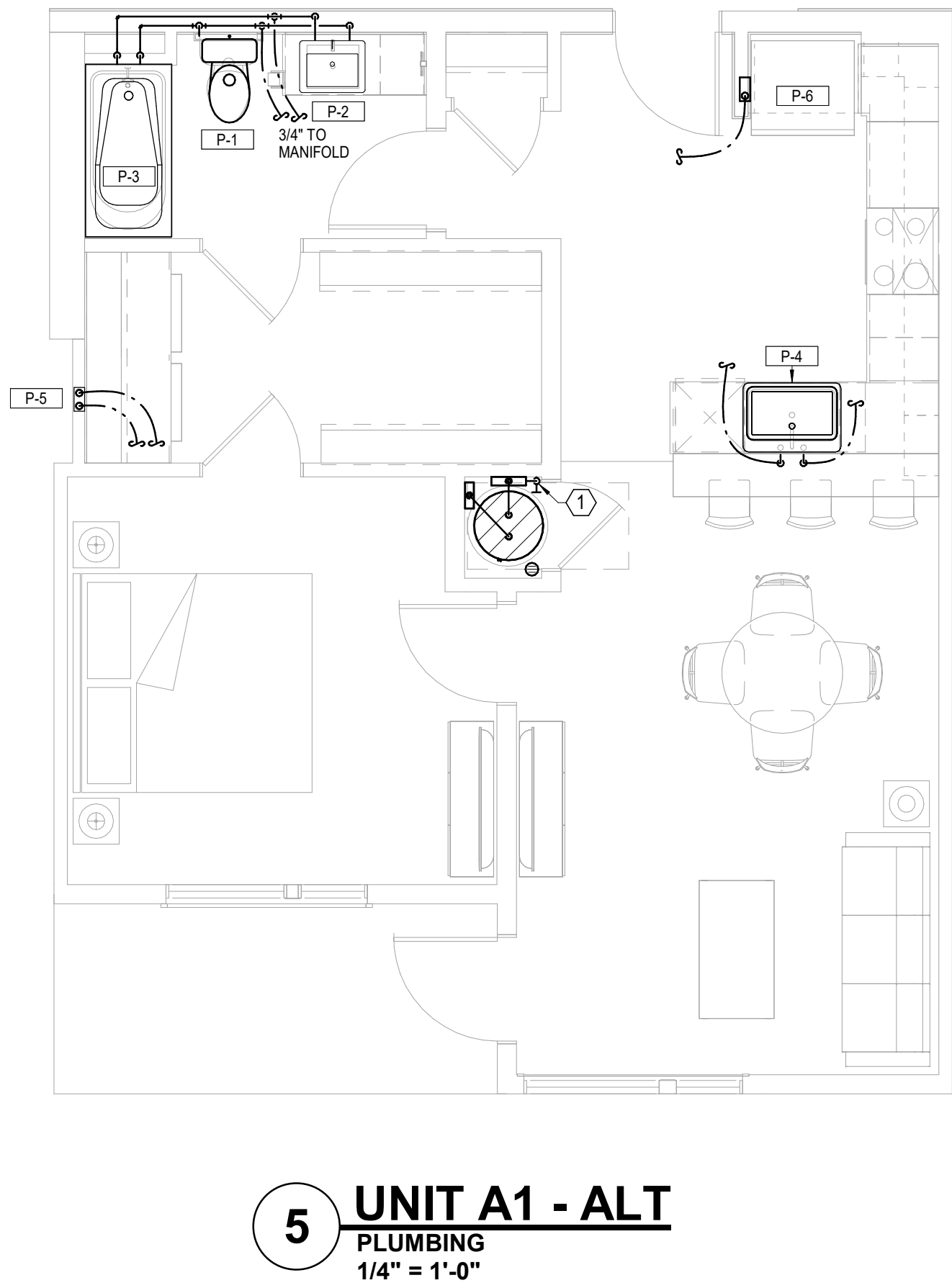
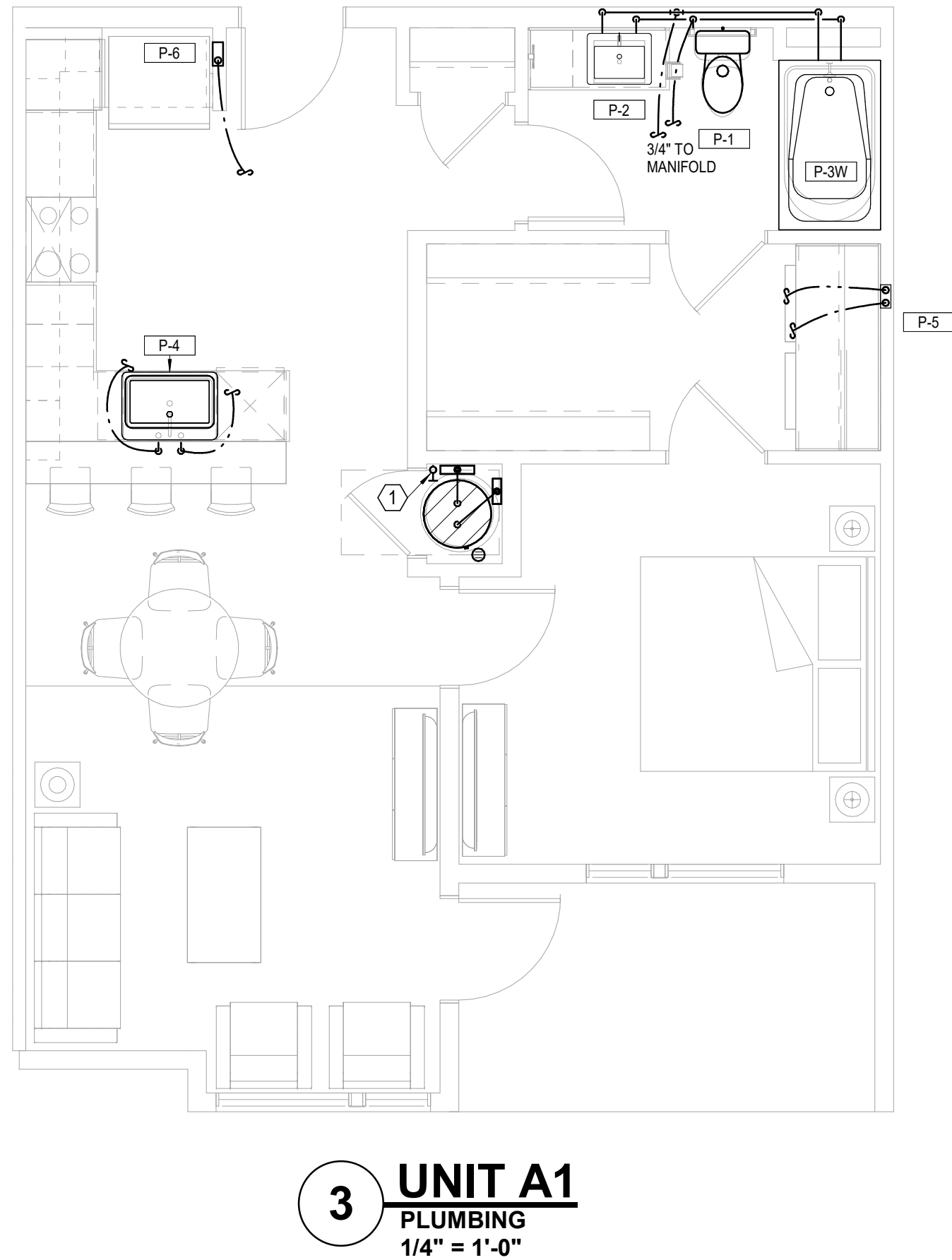
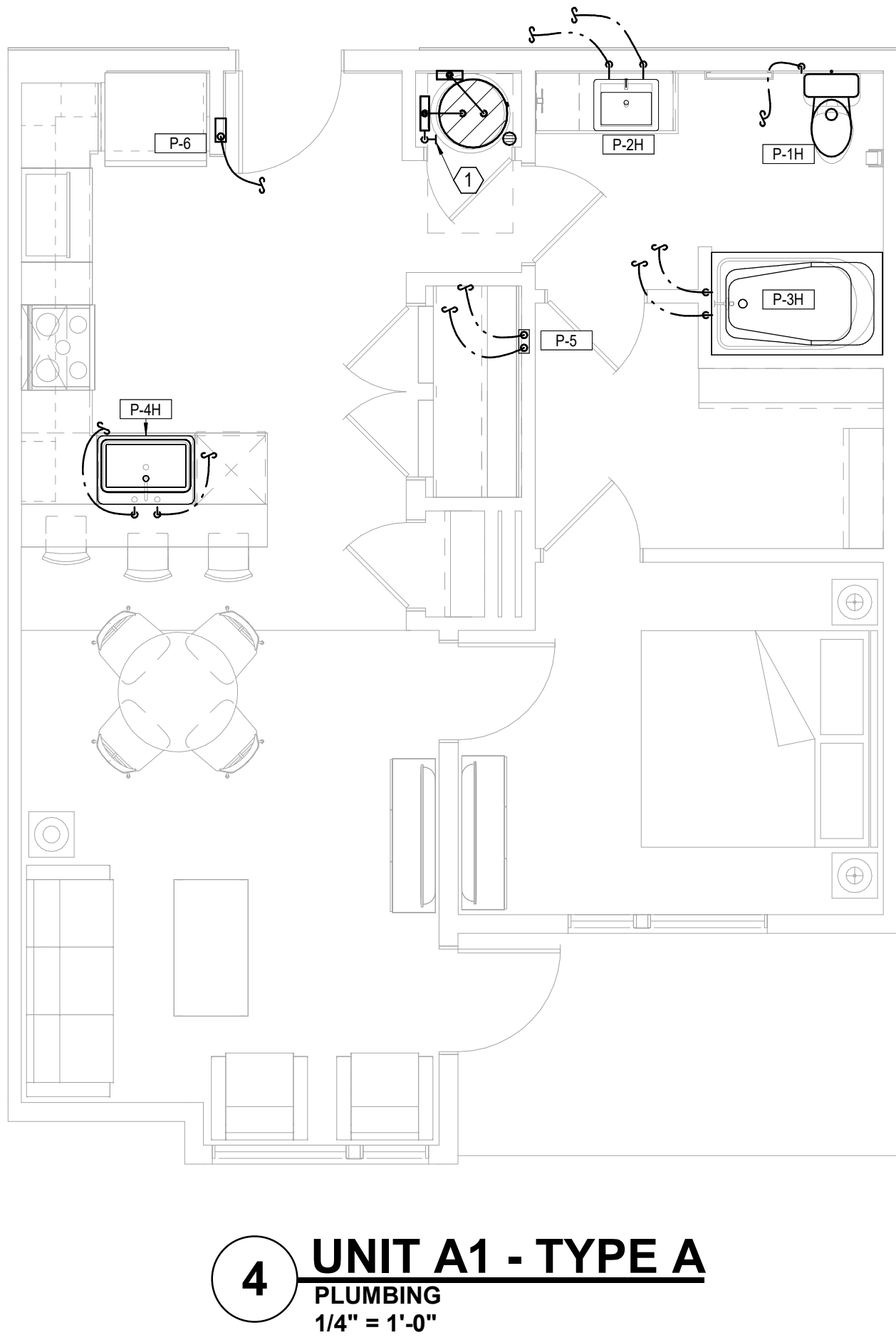
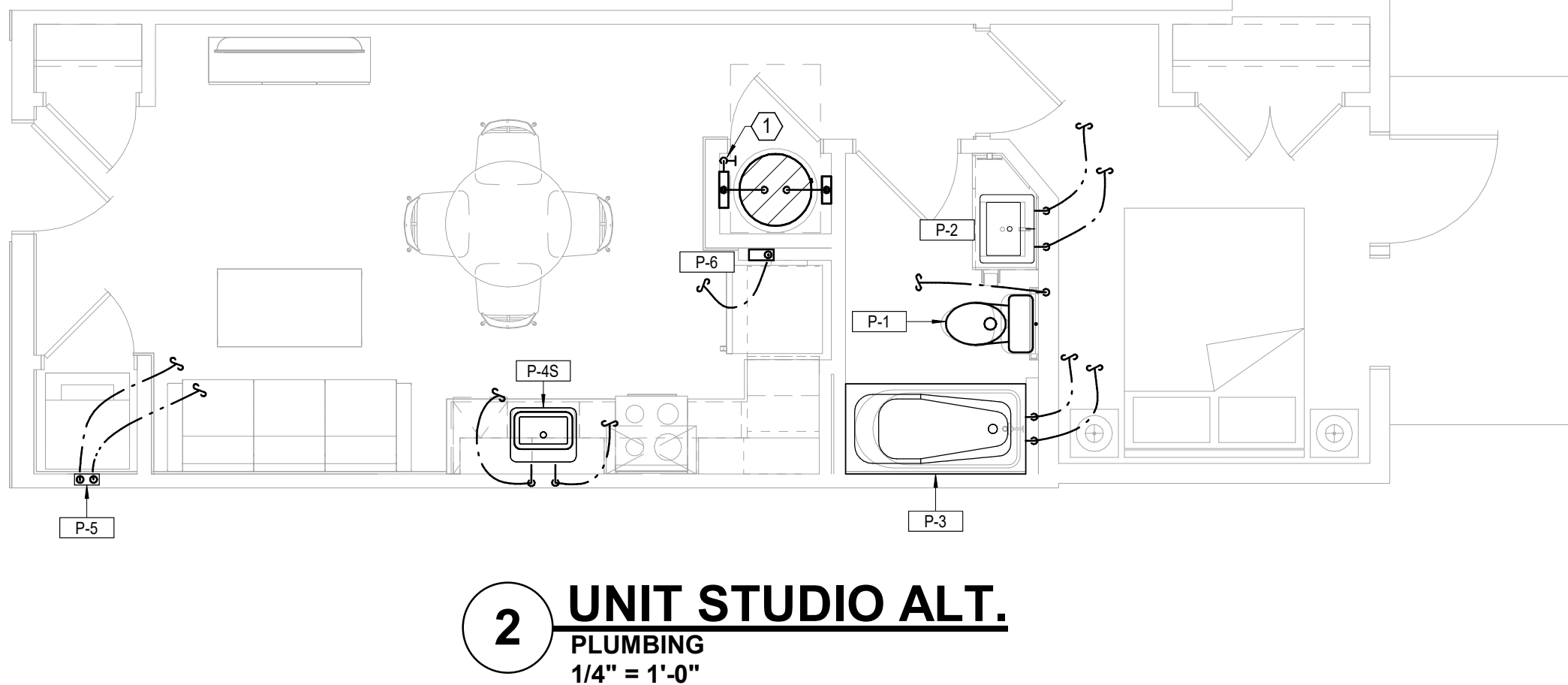
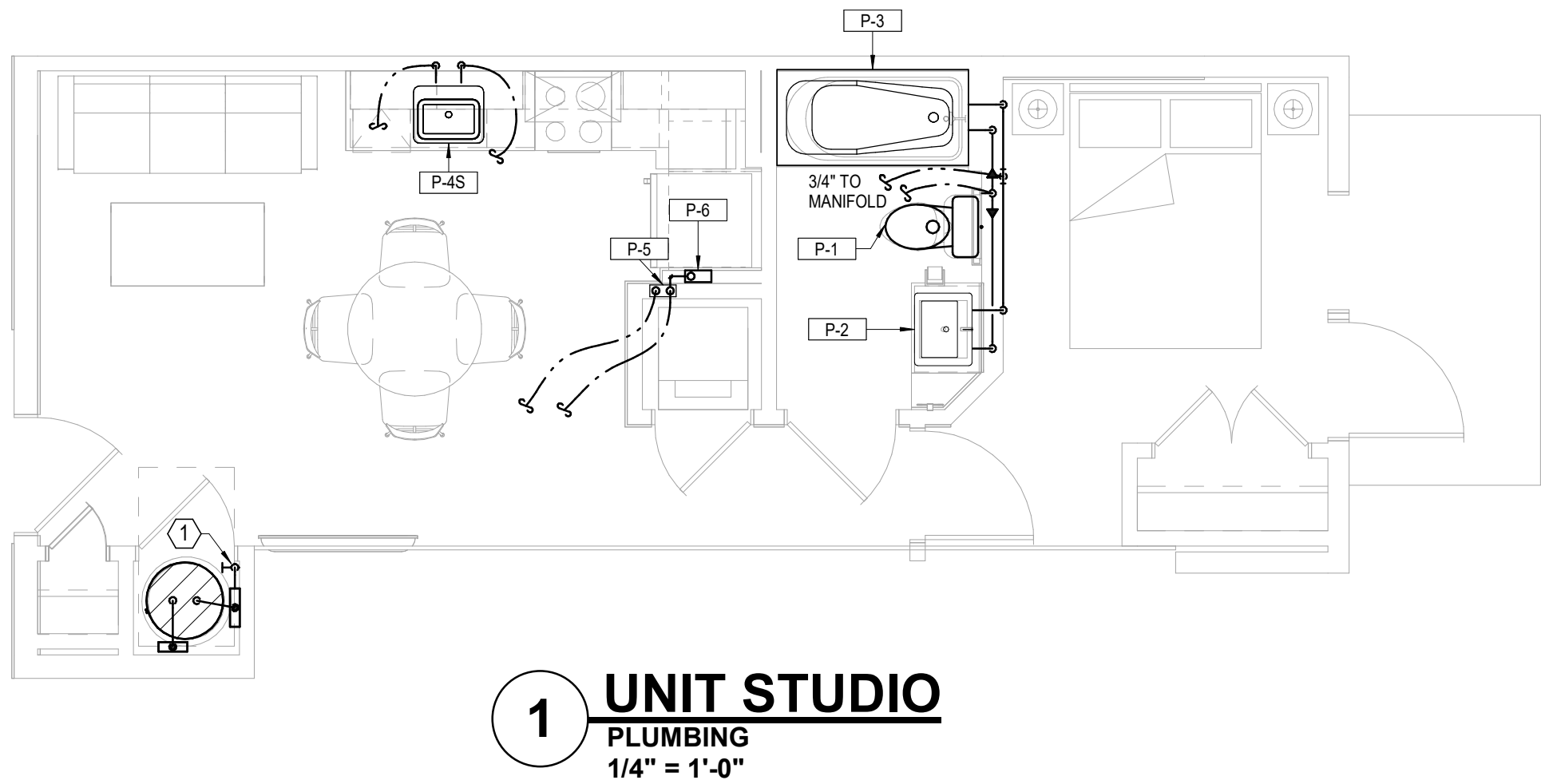
**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO



△ REVISIONS:

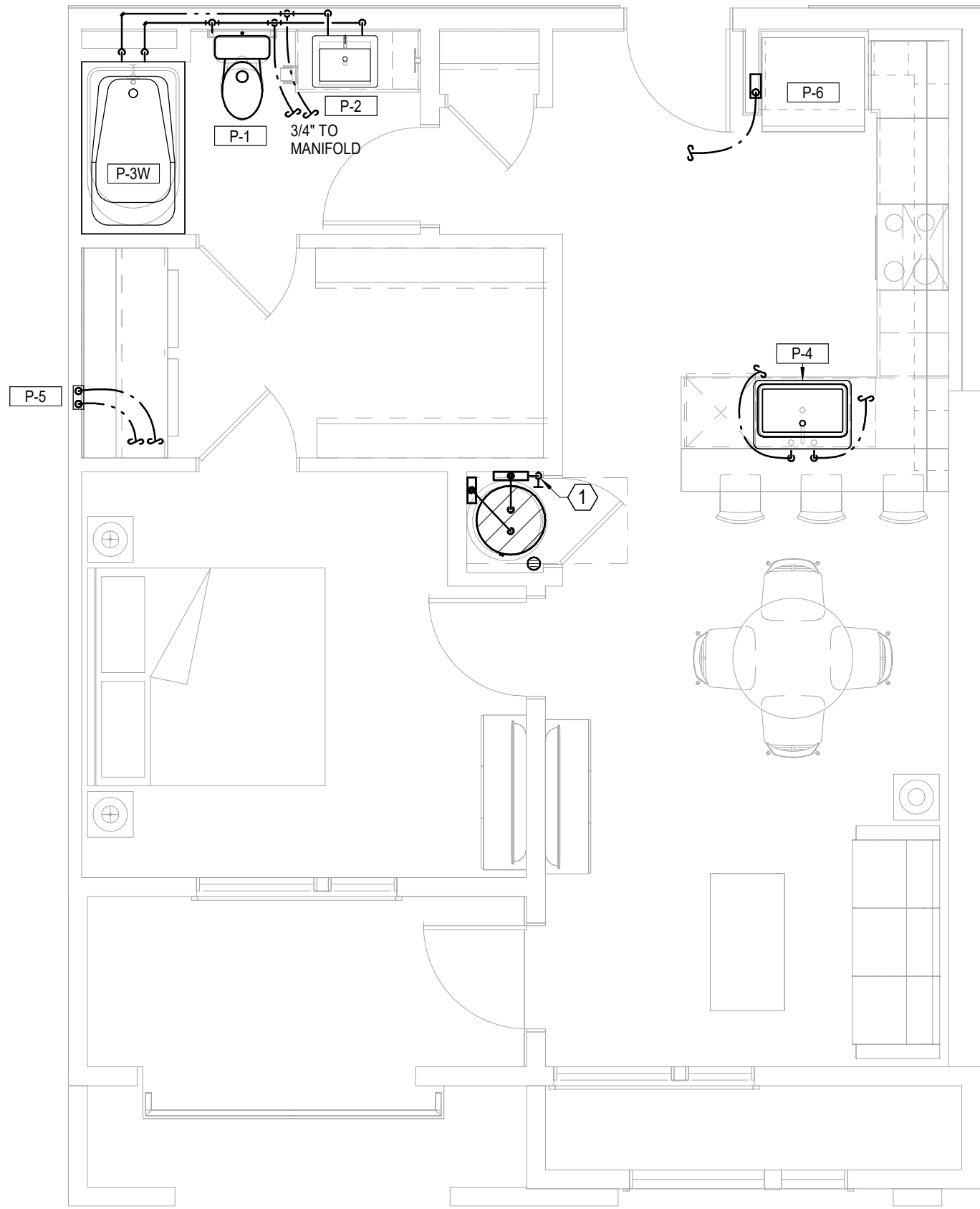


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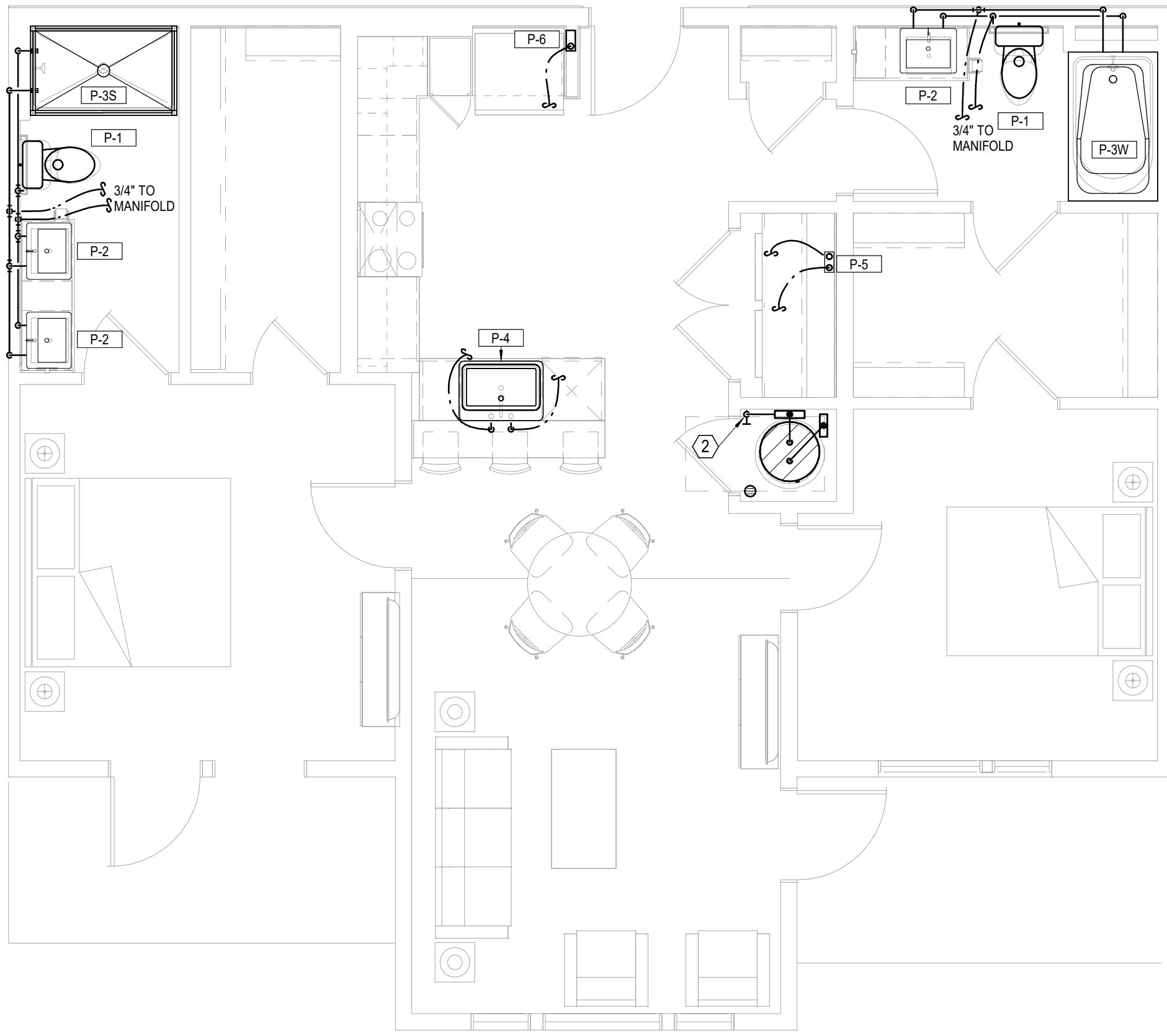


- UNIT PLUMBING NOTES:
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 2. PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
 3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
 4. PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
 5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
 6. P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.
 7. SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY.

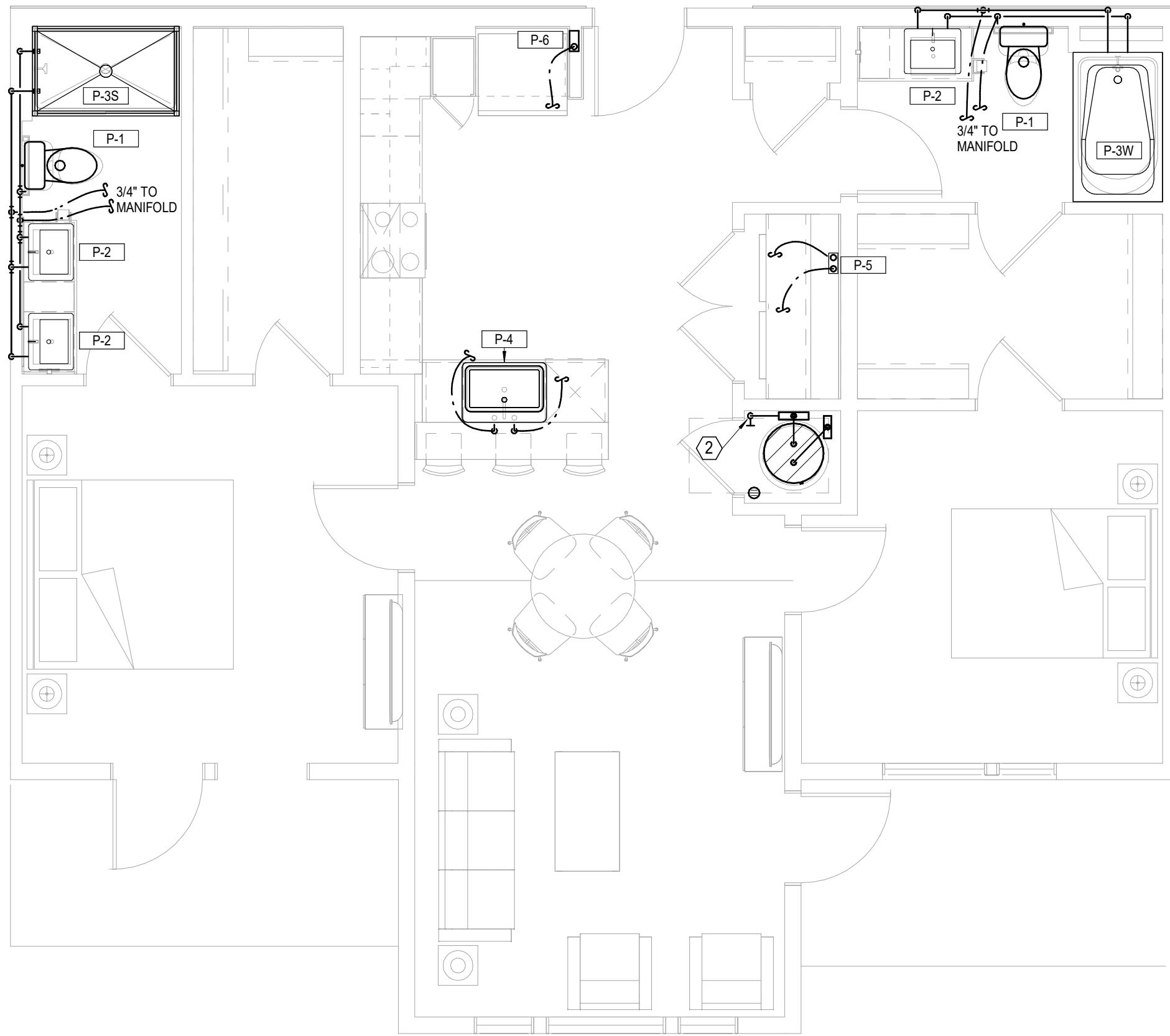
- LEGEND:
- ① 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
 - ② 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



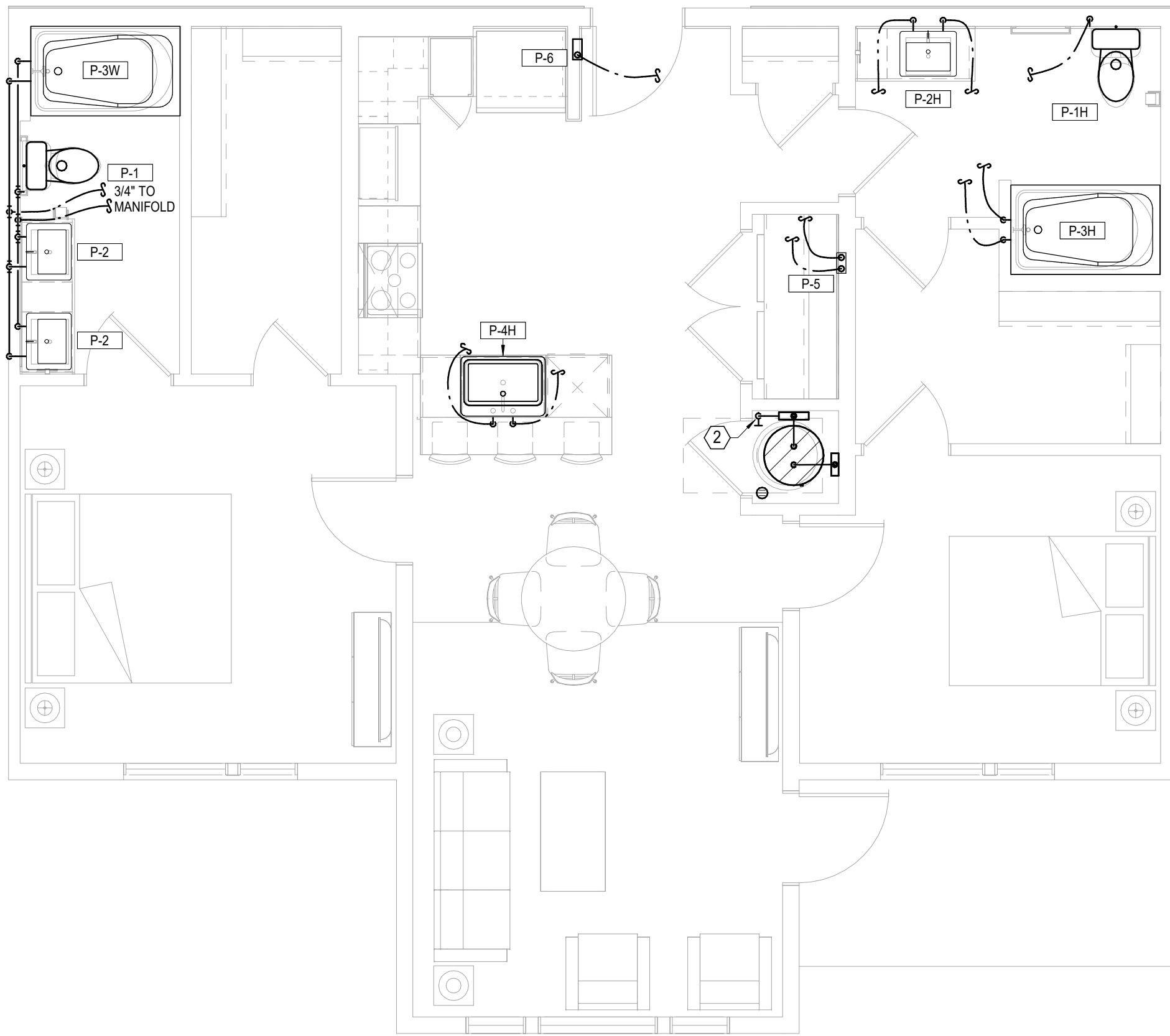
1 **UNIT A2**
PLUMBING
1/4" = 1'-0"



2 **UNIT B2**
PLUMBING
1/4" = 1'-0"



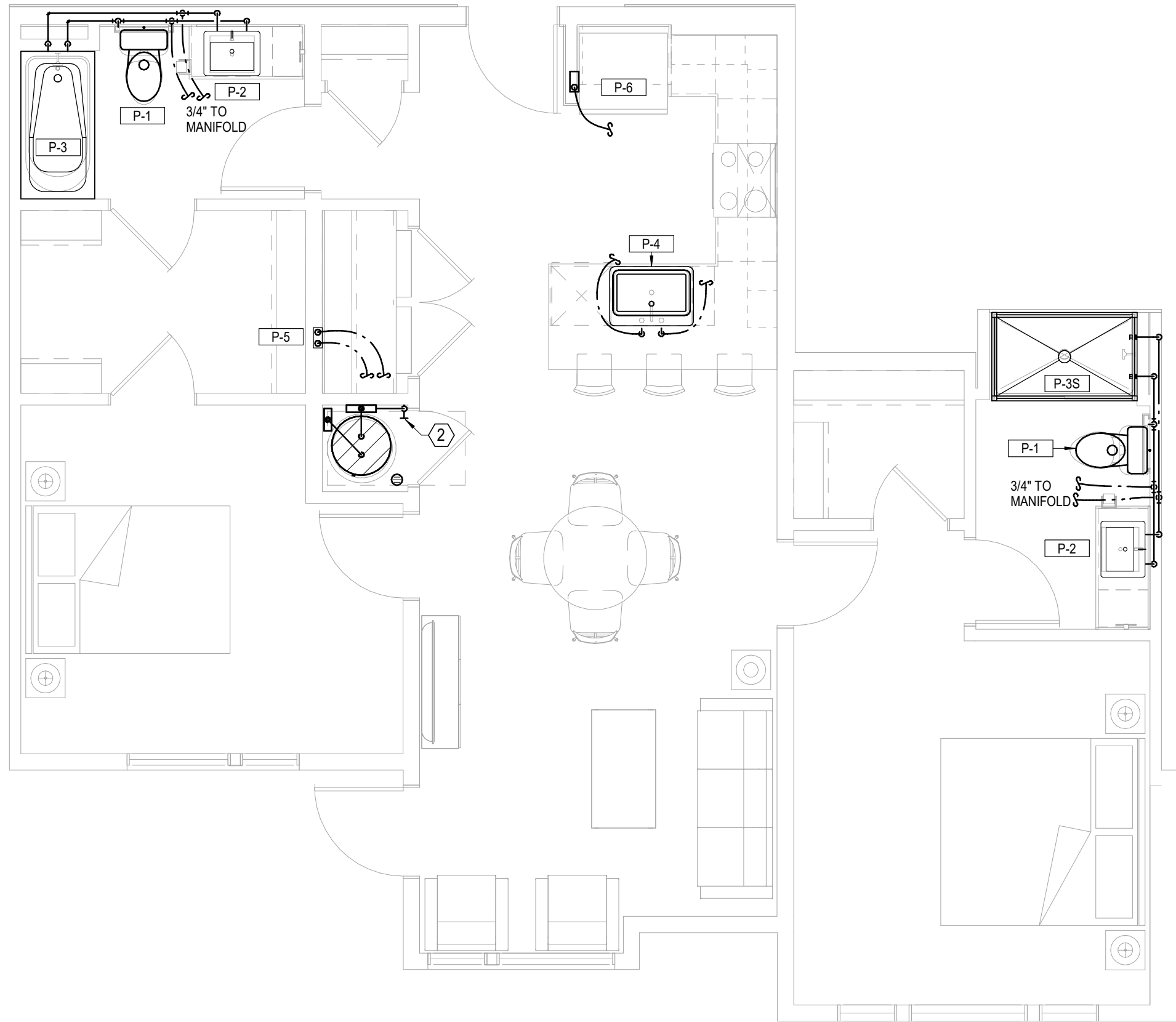
3 **UNIT B2 - ALT 1&2**
PLUMBING
1/4" = 1'-0"



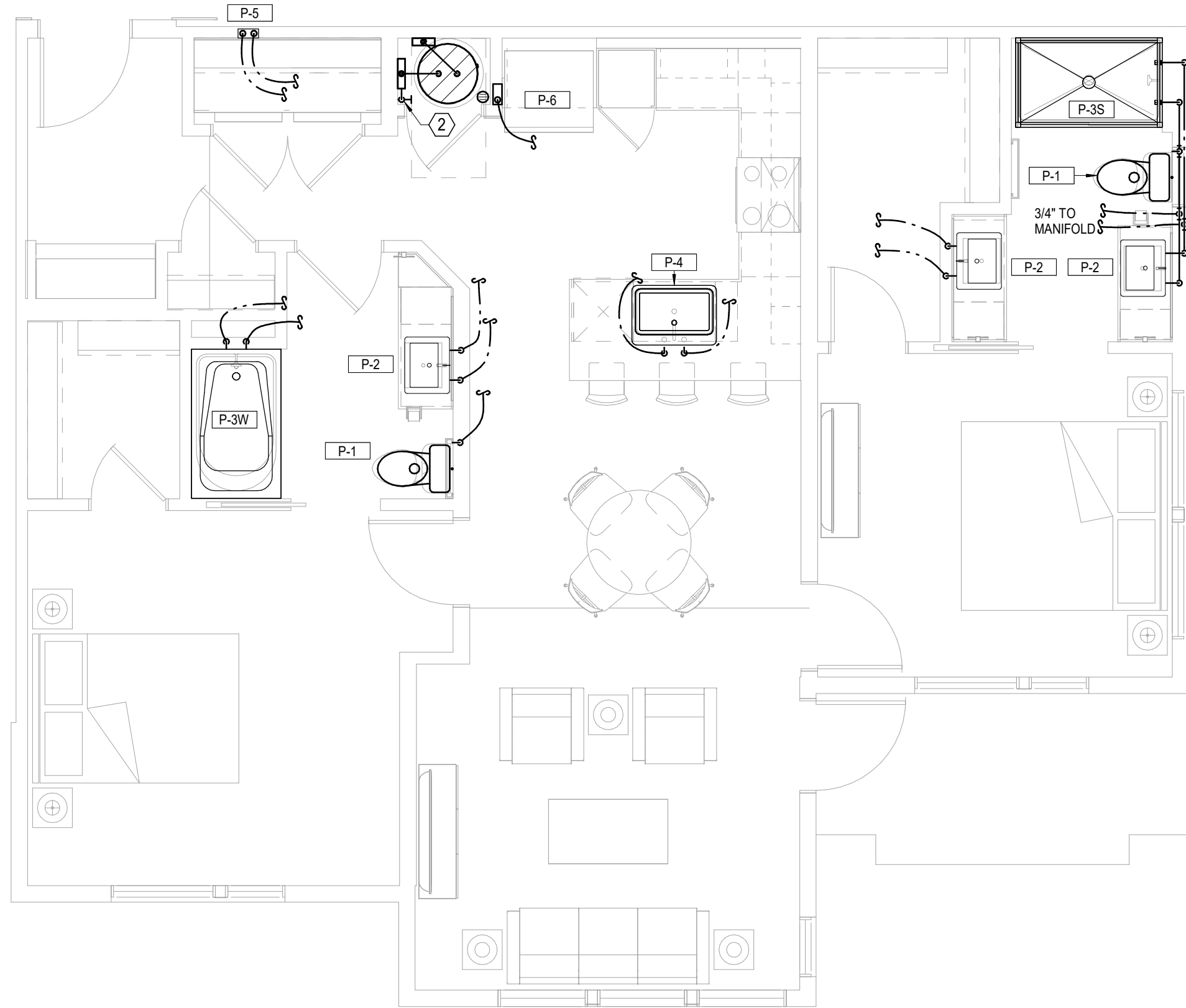
4 **UNIT B2 - TYPE A**
PLUMBING
1/4" = 1'-0"

- UNIT PLUMBING NOTES:**
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 2. PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
 3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
 4. PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
 5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
 6. P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.
 7. SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY.

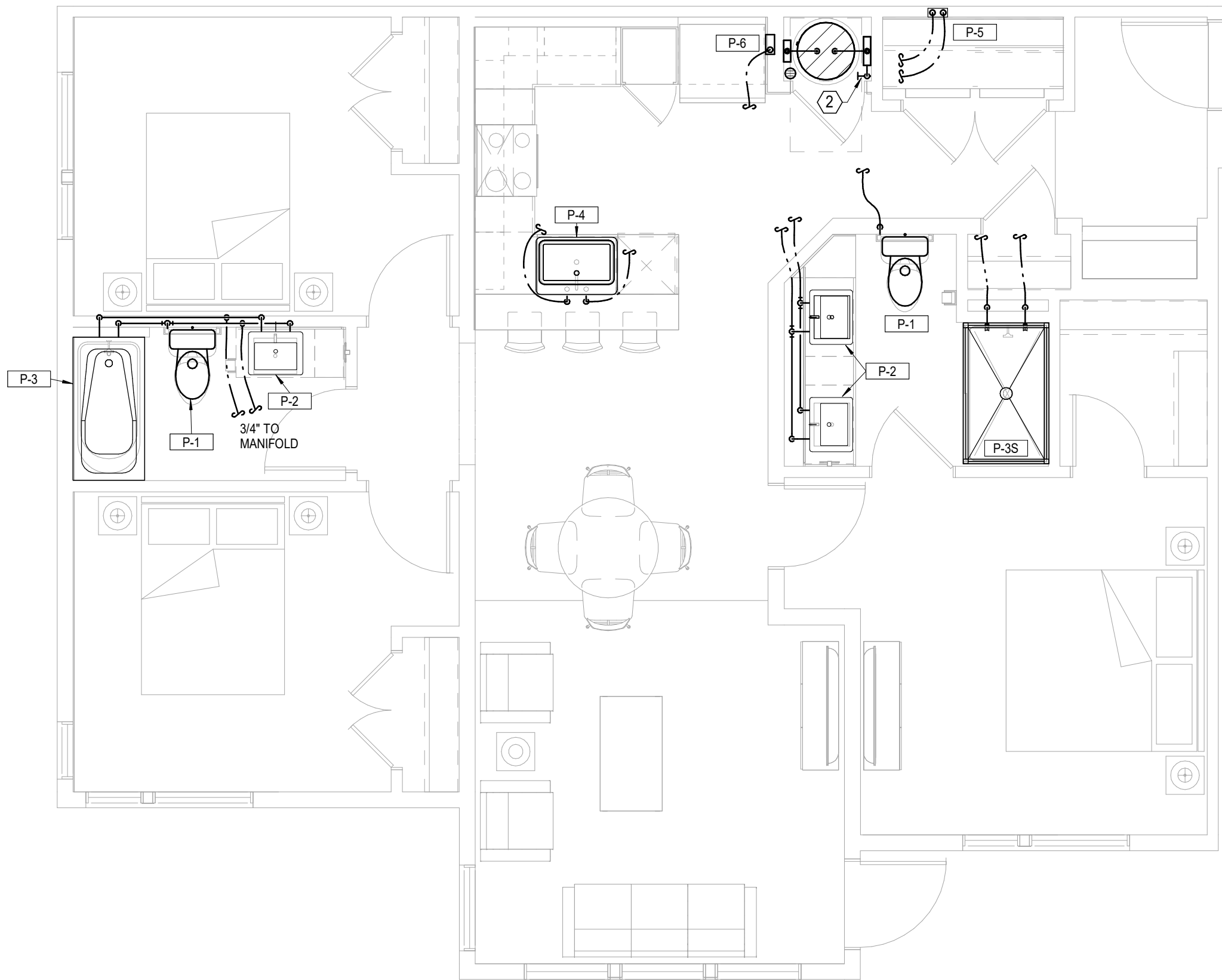
- LEGEND:**
- ① 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
 - ② 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



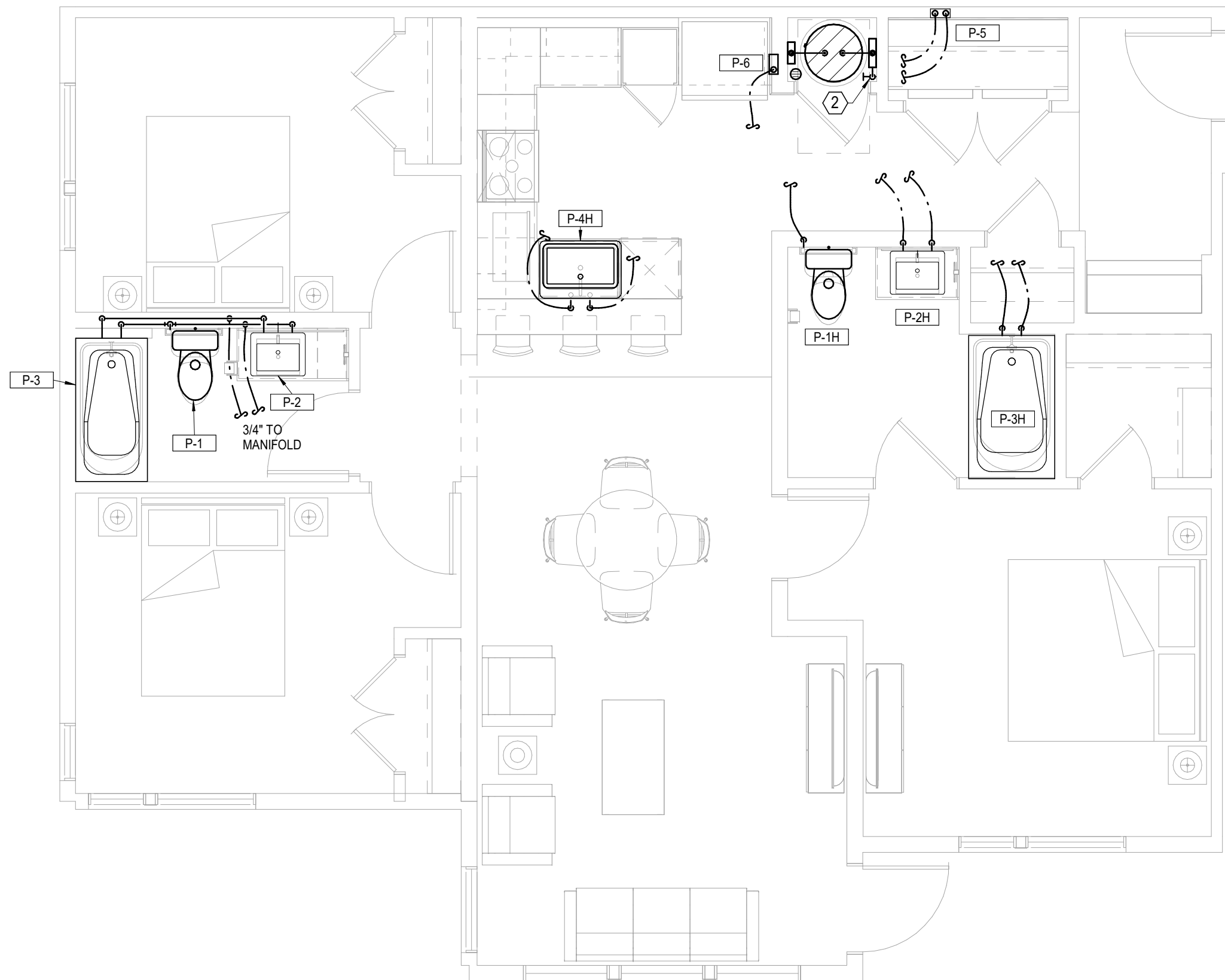
1 UNIT B3
PLUMBING
1/4" = 1'-0"



2 UNIT B4
PLUMBING
1/4" = 1'-0"



3 UNIT C1
PLUMBING
1/4" = 1'-0"



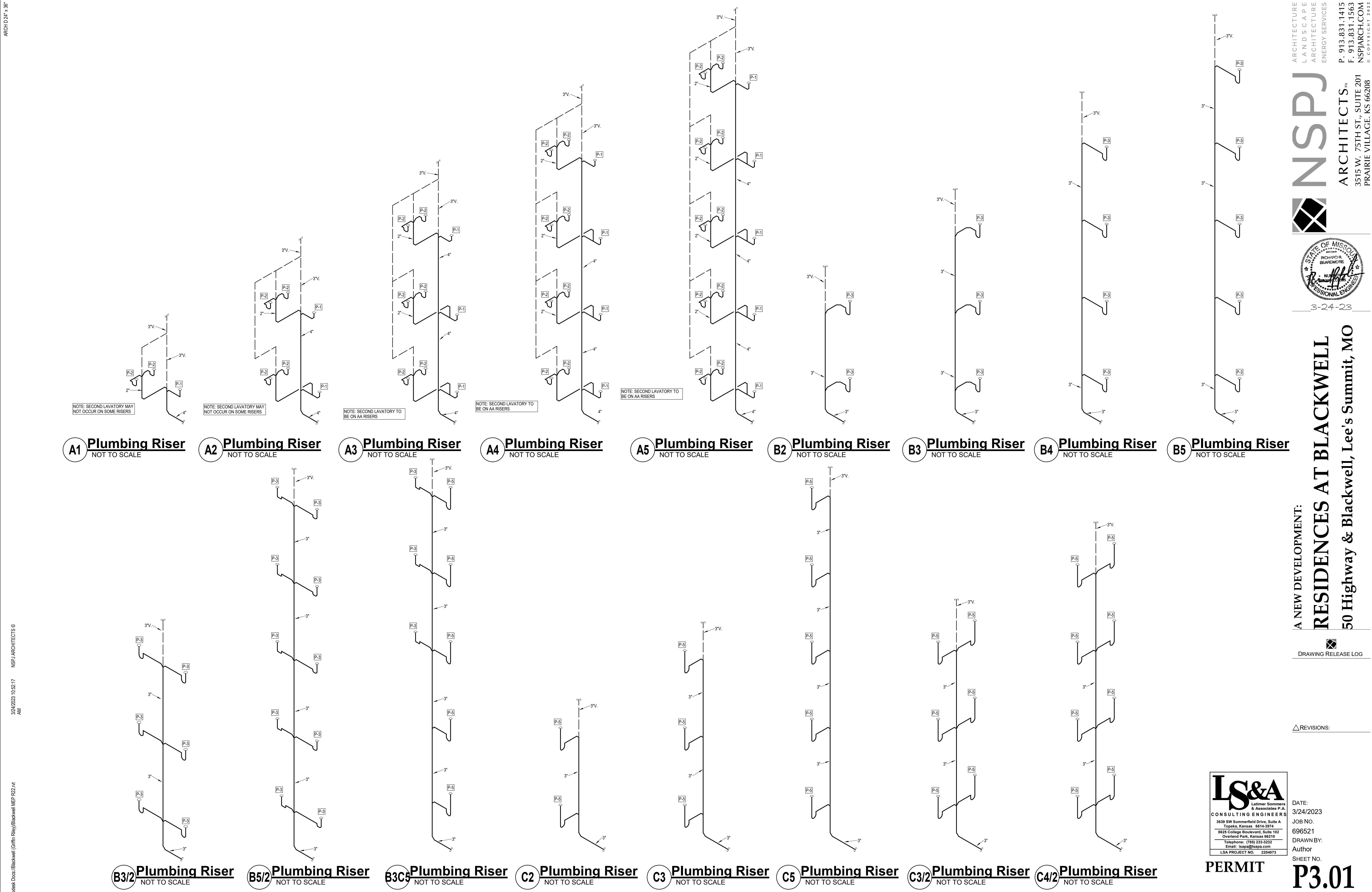
4 UNIT C1 - TYPE A
PLUMBING
1/4" = 1'-0"

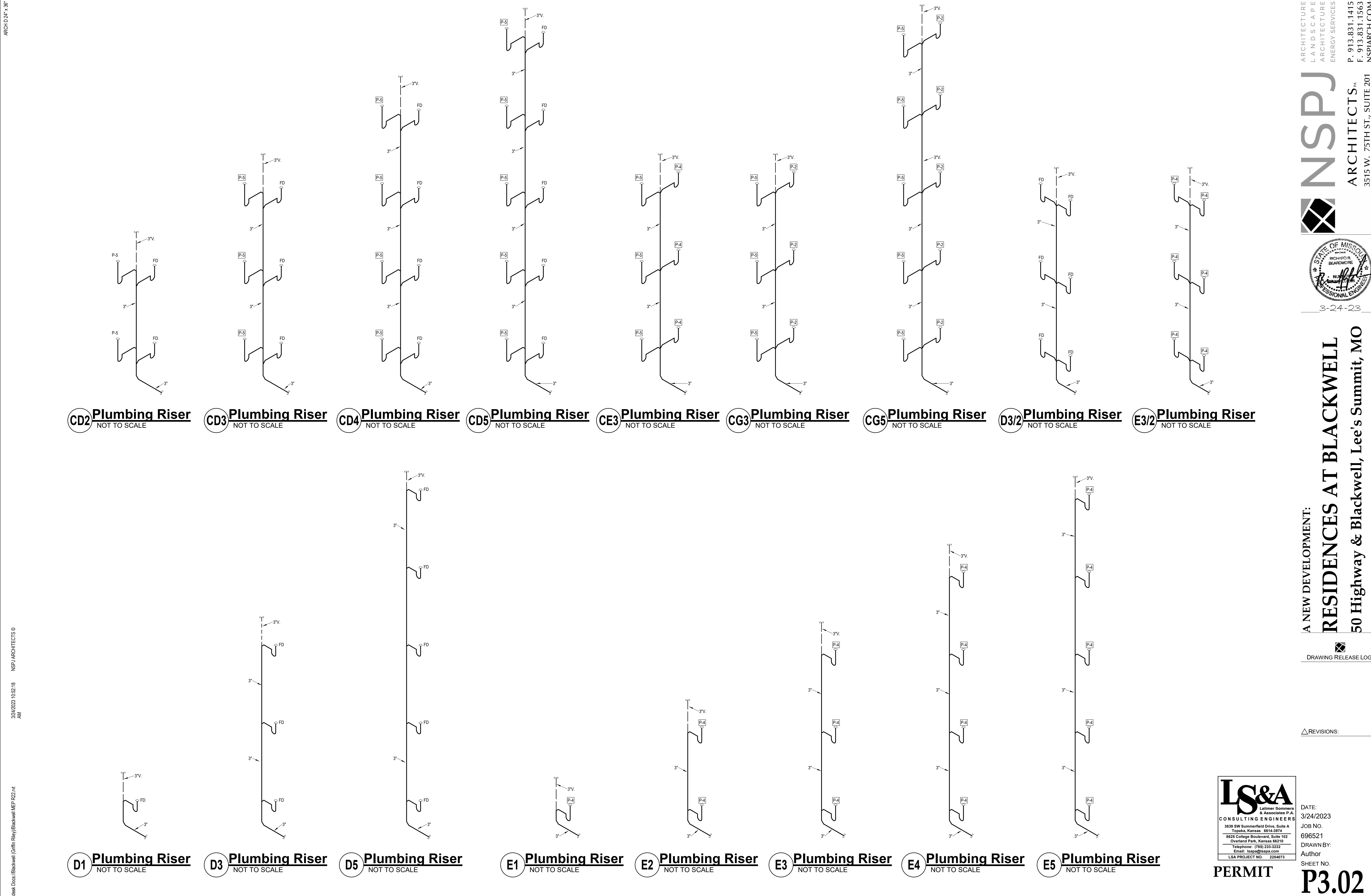
- UNIT PLUMBING NOTES:**
- ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 - PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
 - CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
 - PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
 - ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD.
 - P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.
 - SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY.

- LEGEND:**
- 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
 - 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



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A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
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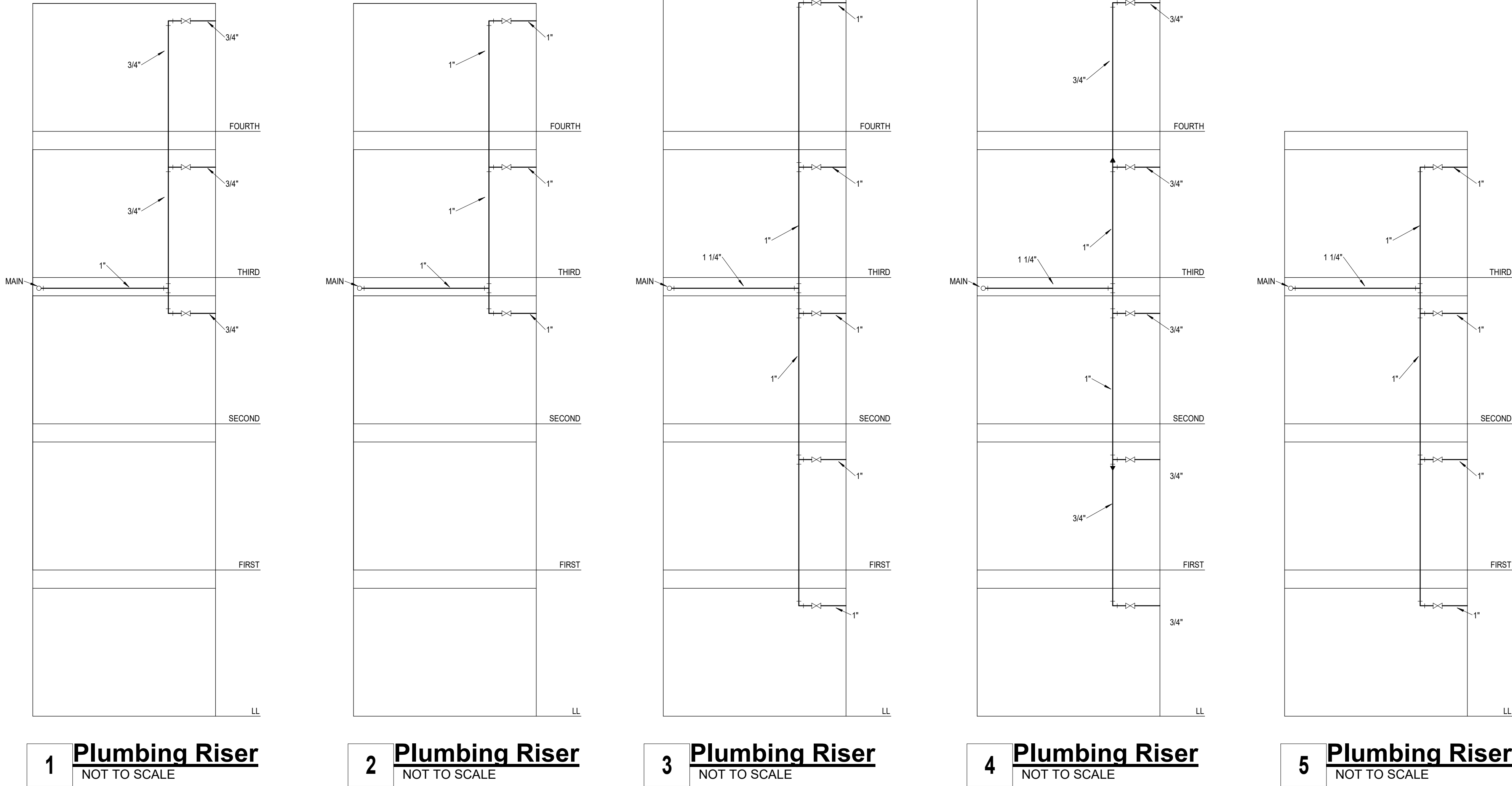
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LSA PROJECT NO. 2204073

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STATE OF MISSOURI
RICHARD P. BEARDMORE
PROFESSIONAL ENGINEER

3-24-23

DATE:
3/24/2023

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STATE OF MISSOURI
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PROFESSIONAL ENGINEER

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1

1ST FLOOR BUILDING PLAN - A

HVAC
1/8" = 1'-0"

2

1ST FLOOR BUILDING PLAN - B

HVAC
1/8" = 1'-0"

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.

2. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.

3. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.

4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.

5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

6. RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.

7. ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.

LEGEND:

① OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL

② CEILING RADIATION DAMPER AT MEMBRANE.

③ PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK.

12"x8" OA LOUVER WITH 7" DIA TO AHU

EUH-B

30x12 E LOW (FS)

AHU-H1 ON STAND/PLENUM

16"x8"

10x6 D 150

14"x7"

10x6 D 150

12"x6"

EUH-A

12x8 OA LOUVER

7"

10x6 D 150

10x6 D 150

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1
2ND FLOOR BUILDING PLAN - A
HVAC
1/8" = 1'-0"

2
2ND FLOOR BUILDING PLAN - B
HVAC
1/8" = 1'-0"

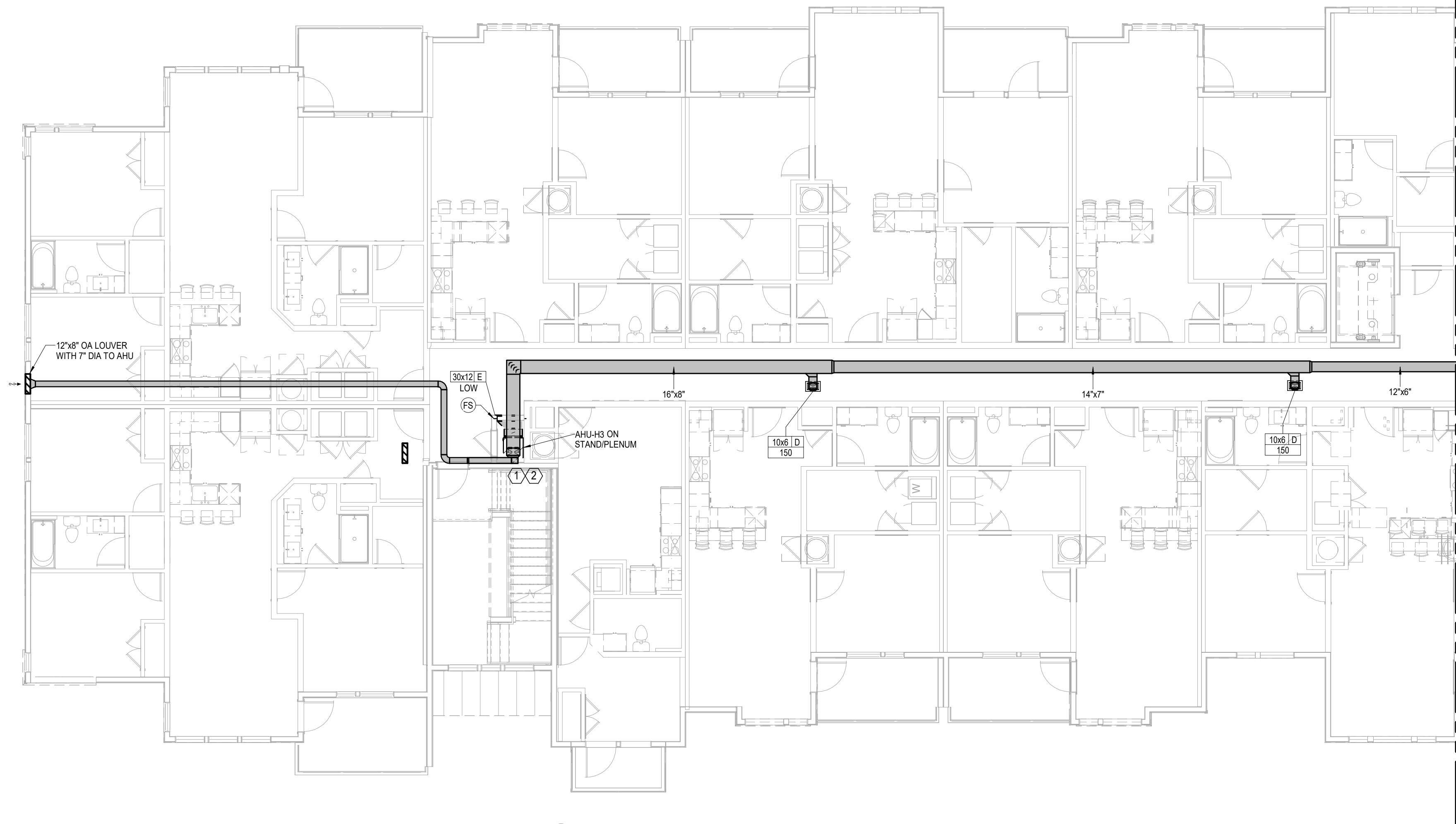
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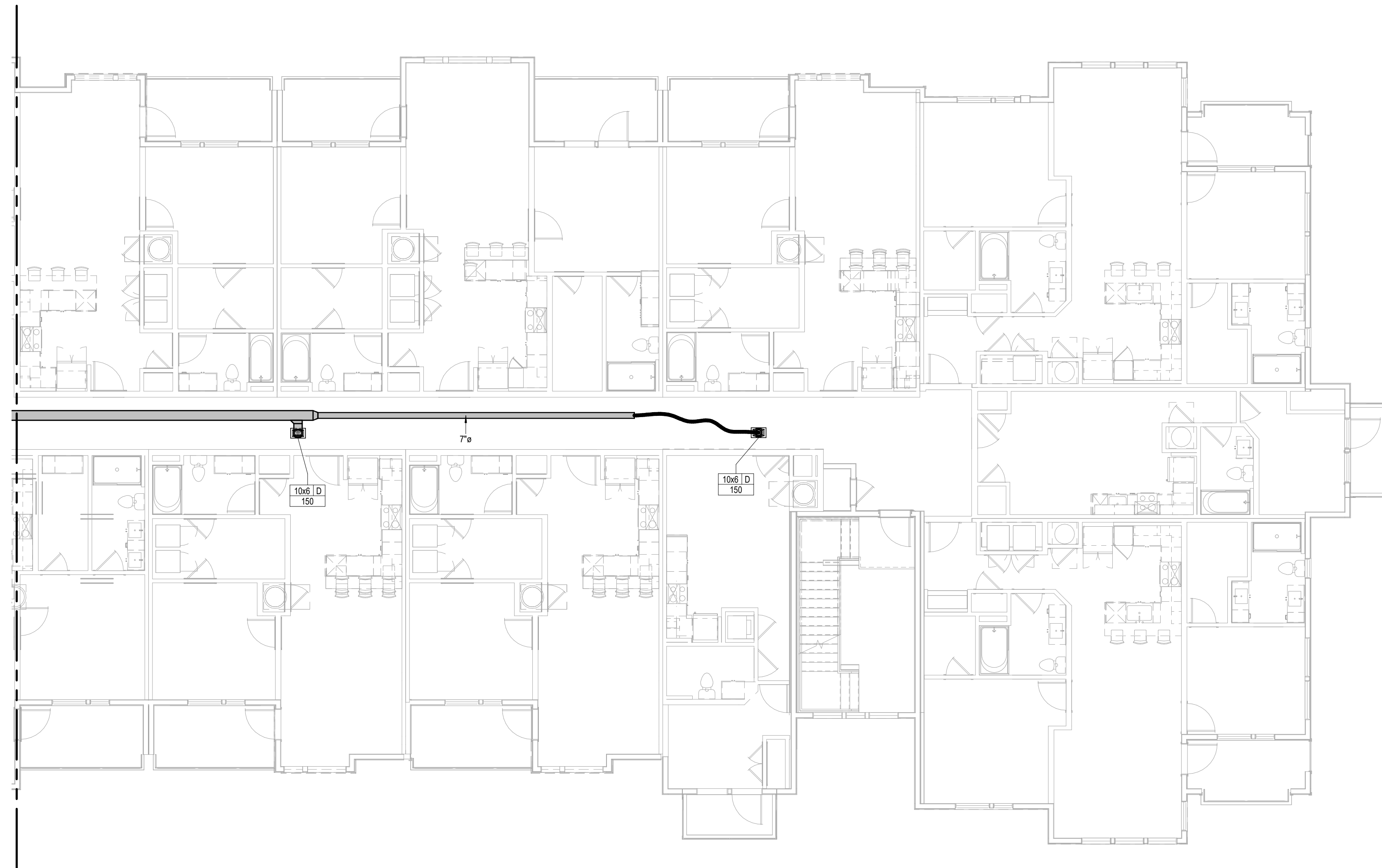
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Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
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8625 College Boulevard, Suite 102
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204073

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1 3RD FLOOR BUILDING PLAN - A
HVAC
1/8" = 1'-0"



2 **3RD FLOOR BUILDING PLAN - B**
HVAC
1/8" = 1'-0"

- | NOTES: | |
|--------|---|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR
PLACEMENT OF WORK PRIOR TO INSTALLATION
BEGINNING. |
| 2. | ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE
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| 3. | SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL
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| 4. | ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT. |
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| 6. | RECTANGULAR DUCT RUNS MAY BE CONVERTED TO
EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER
100 FT. |
| 7. | ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS. |

- | LEGEND: | |
|---------|--|
| ① | OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL |
| ② | CEILING RADIATION DAMPER AT MEMBRANE. |
| ③ | PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK. |



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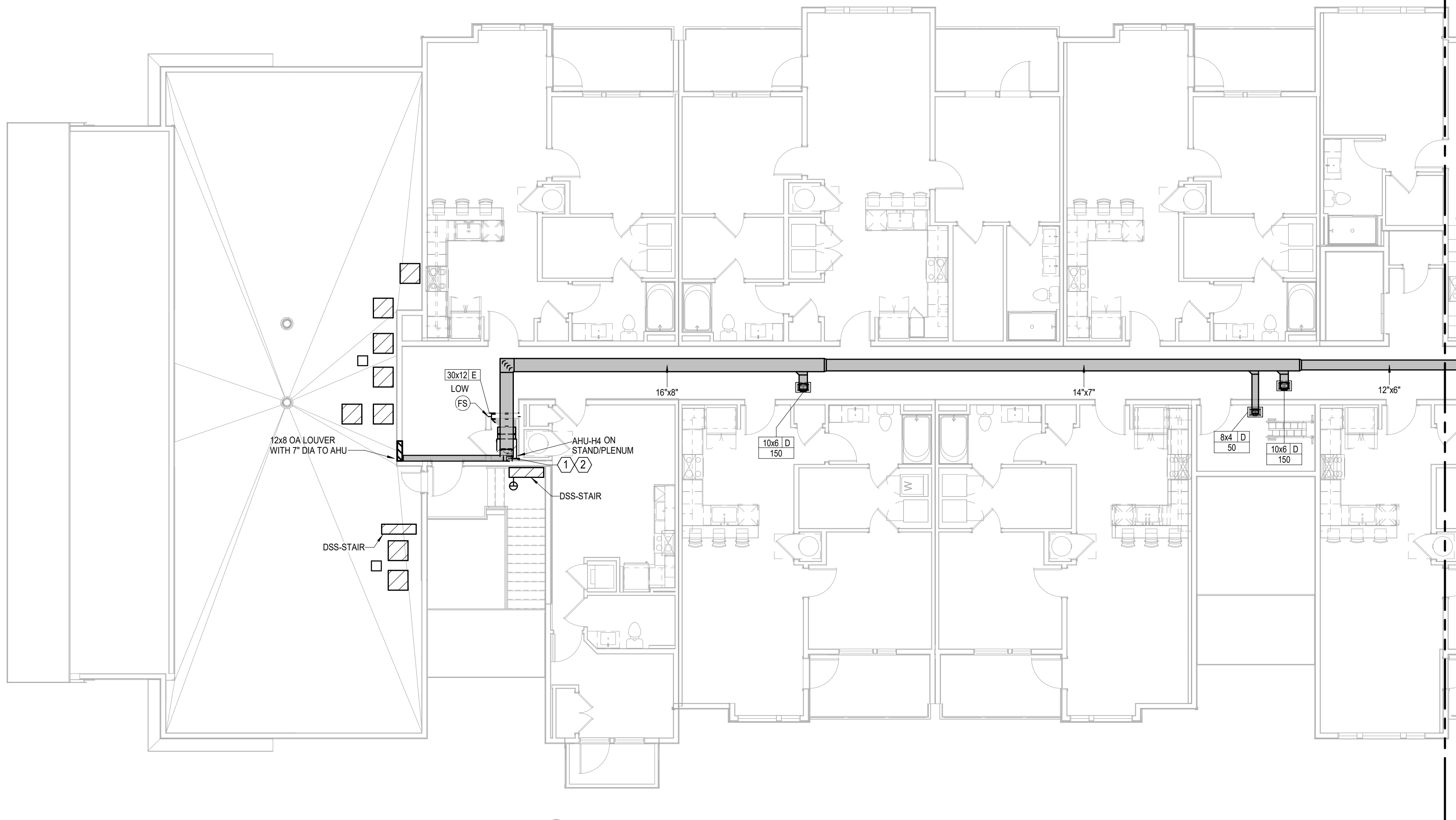
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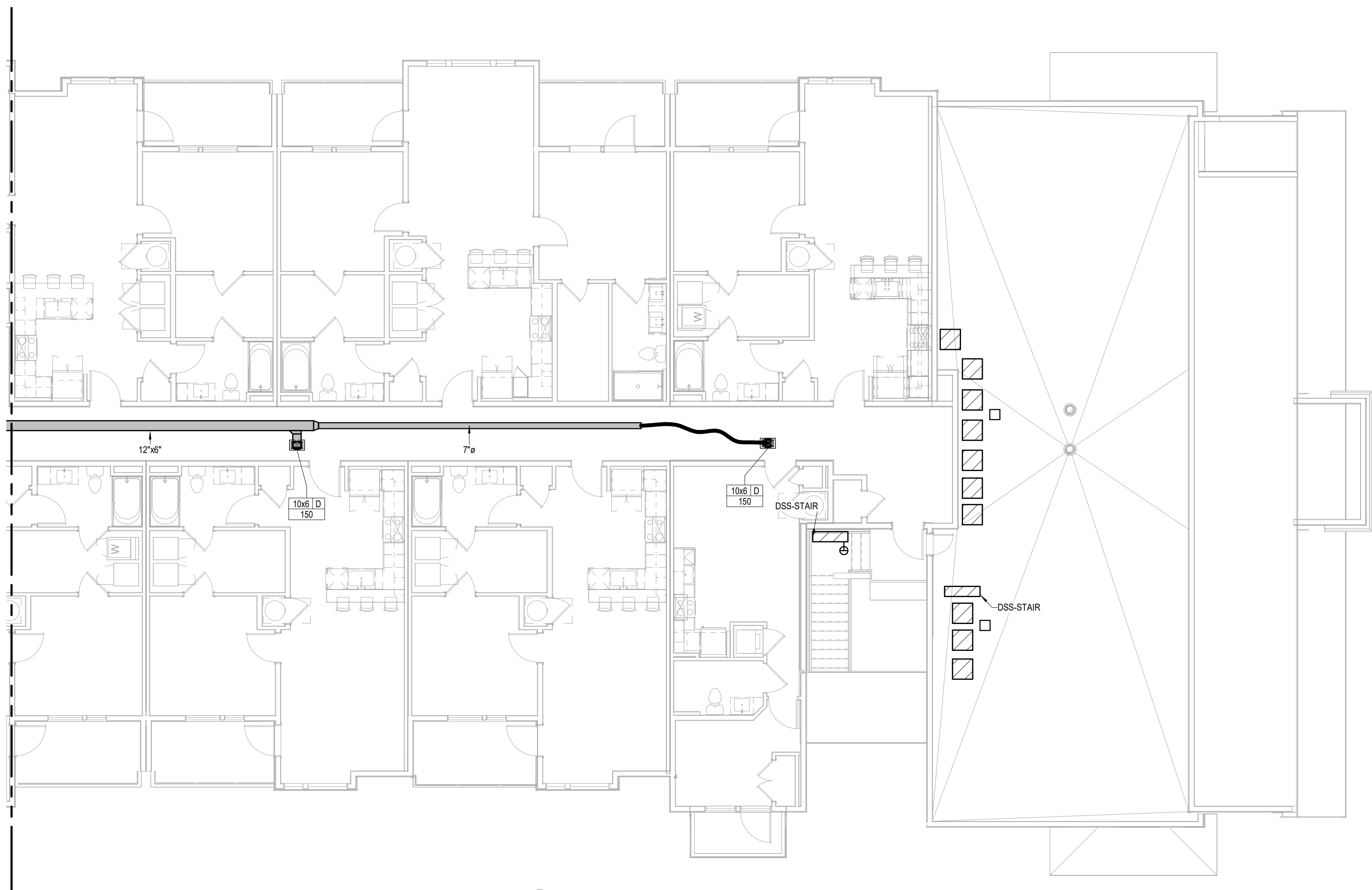
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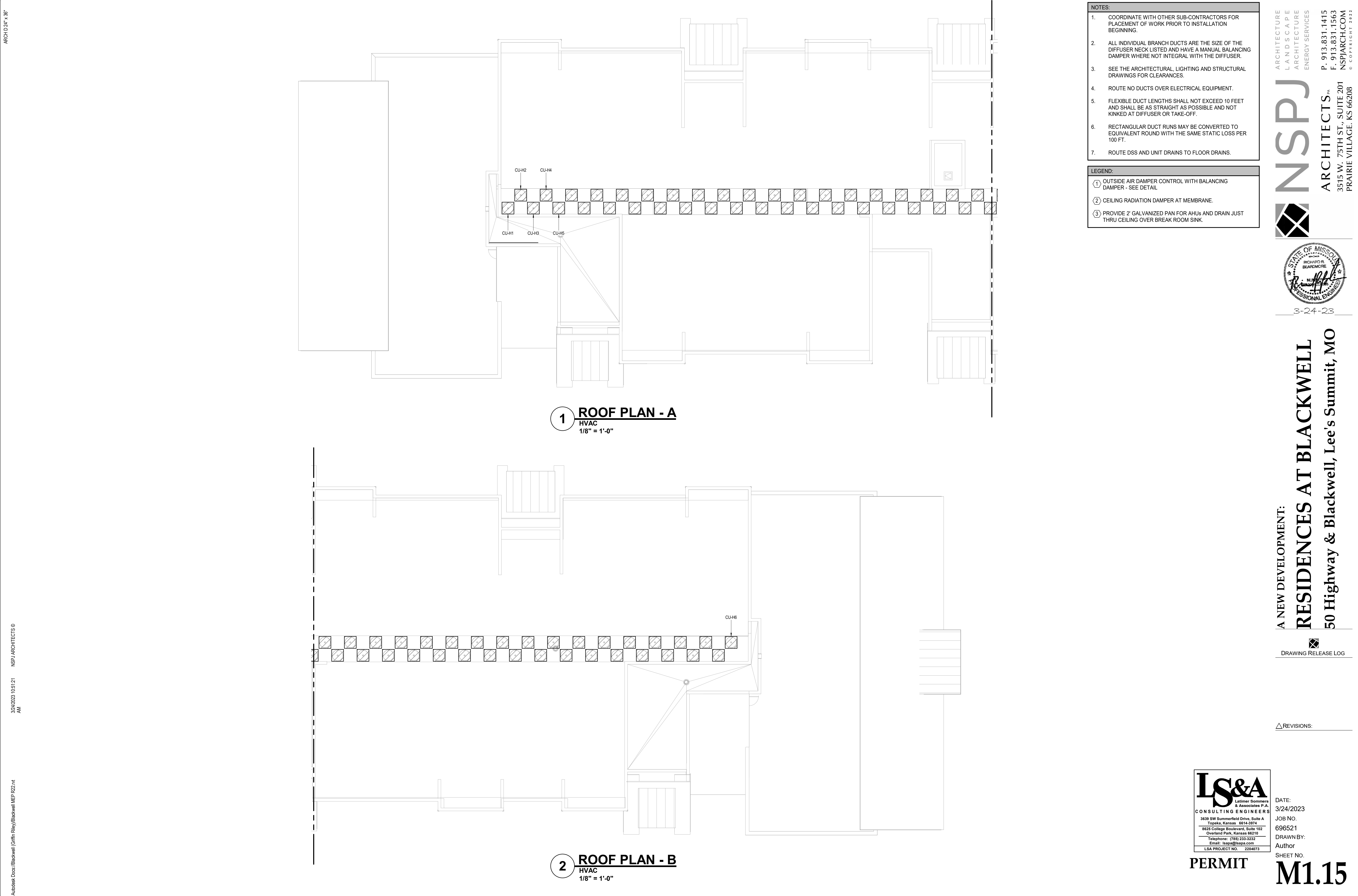


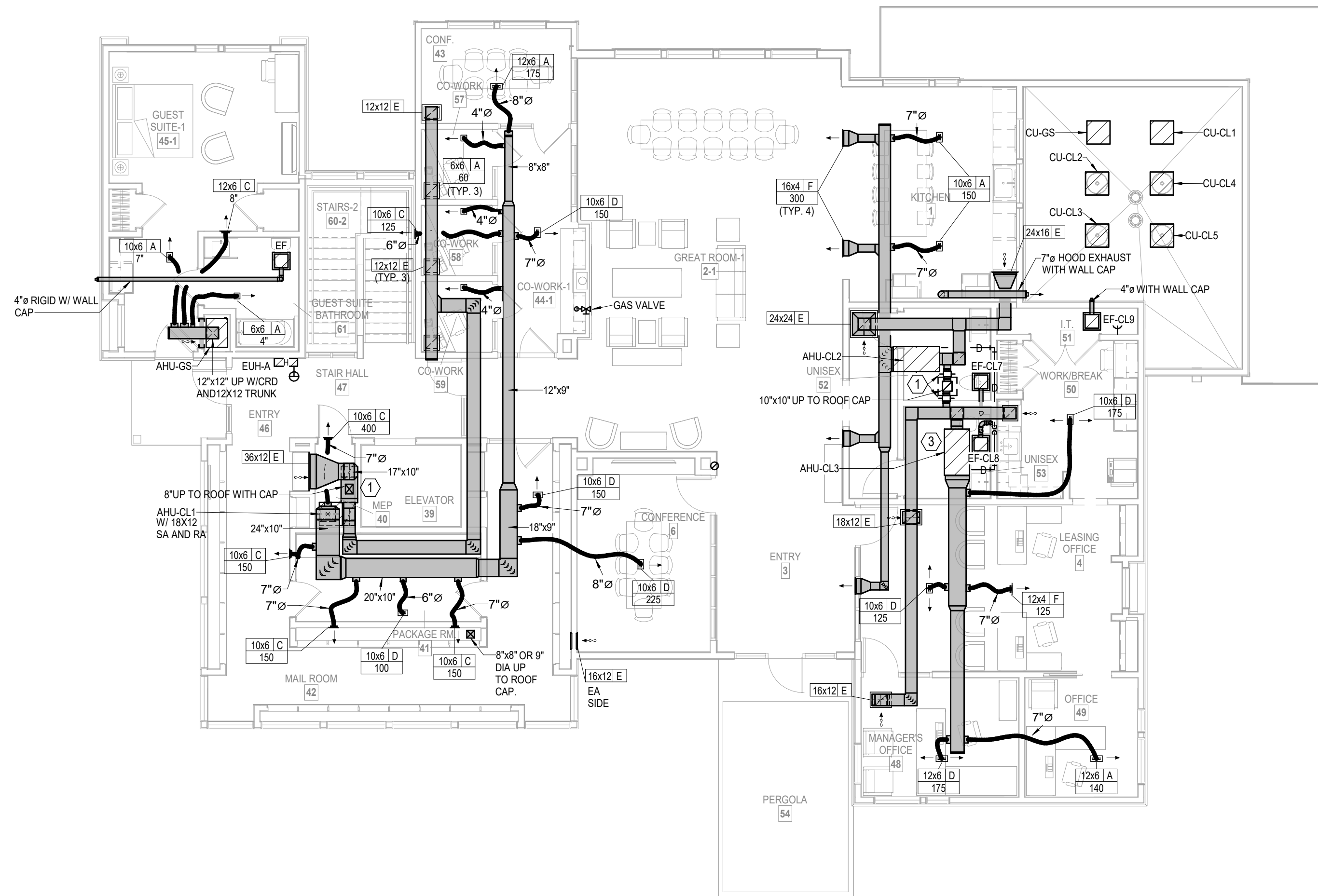
1 **4TH FLOOR BUILDING PLAN - A**
HVAC
1/8" = 1'-0"



2 **4TH FLOOR BUILDING PLAN - B**
HVAC
1/8" = 1'-0"

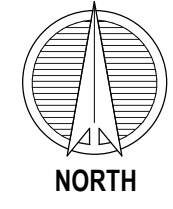
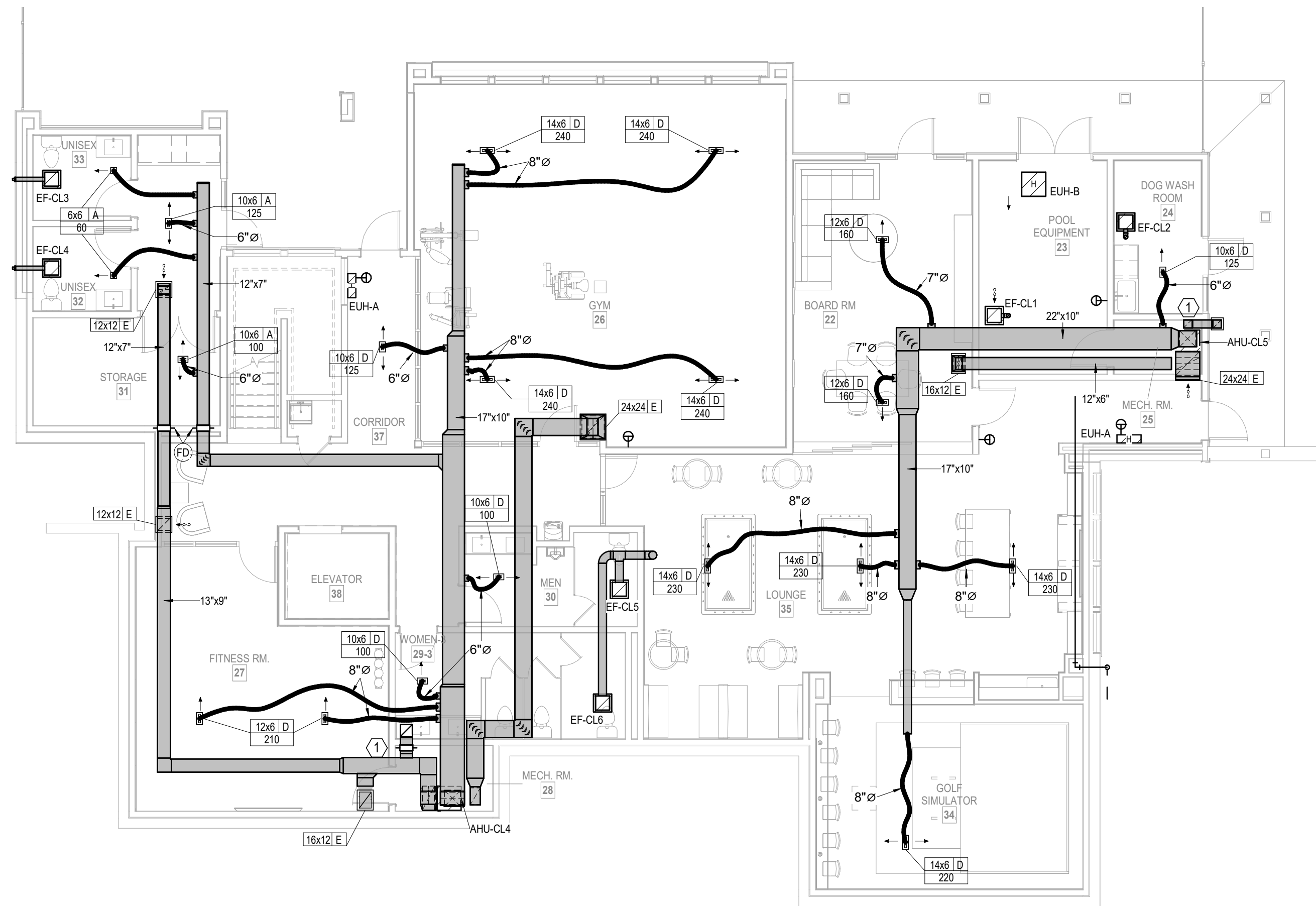
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2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6.	RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.
7.	ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.
LEGEND:	
①	OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL
②	CEILING RADIATION DAMPER AT MEMBRANE.
③	PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK.





1 1ST FLOOR CLUBHOUSE PLAN

HVAC
1/8" = 1'-0"



2 LOWER LEVEL CLUBHOUSE

HVAC
1/8" = 1'-0"

- | NOTES: | |
|--------|---|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING. |
| 2. | ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER. |
| 3. | SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES. |
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| 6. | RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT. |
| 7. | ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS. |

- | LEGEND: | |
|---------|--|
| ① | OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL |
| ② | CEILING RADIATION DAMPER AT MEMBRANE. |
| ③ | PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK. |

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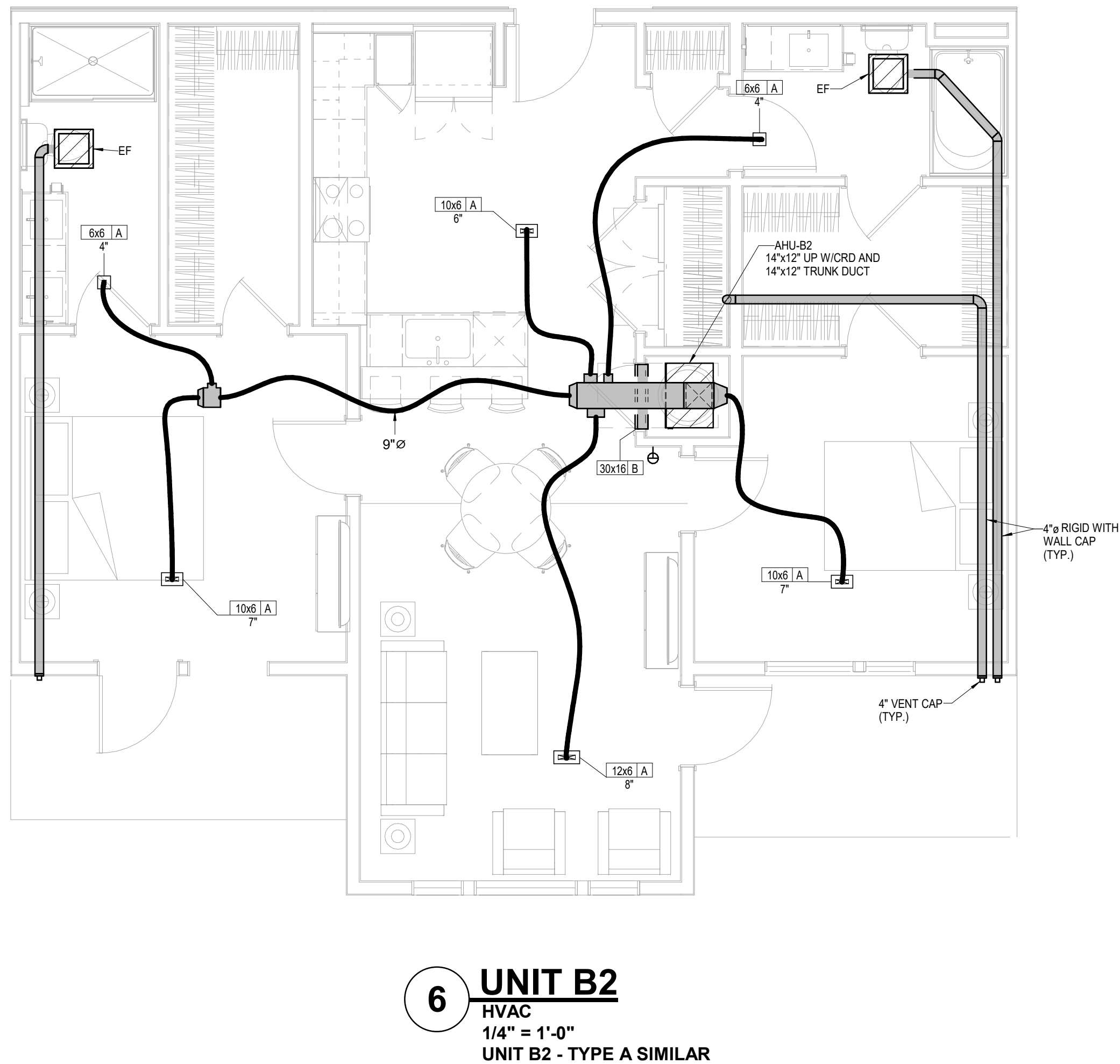
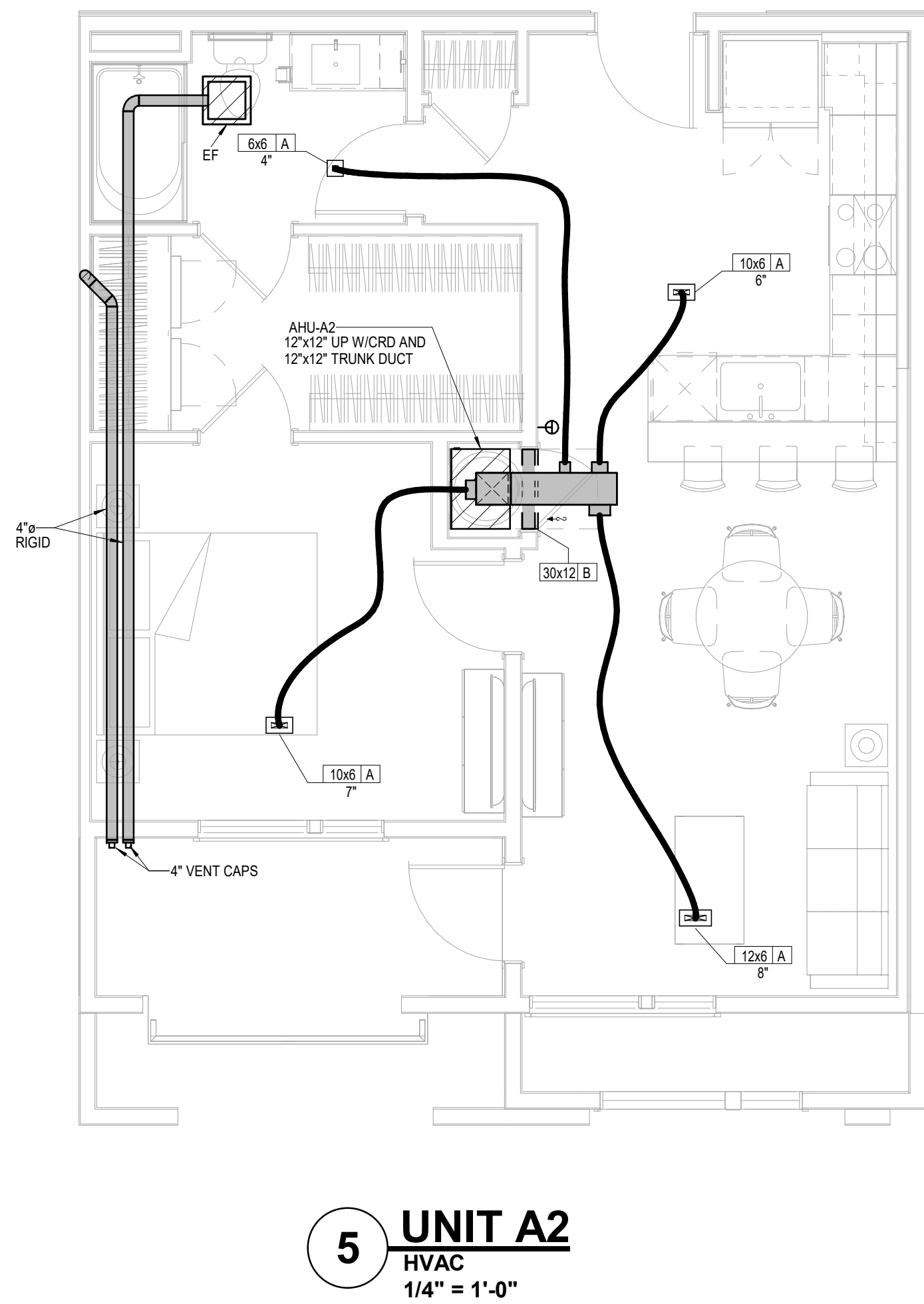
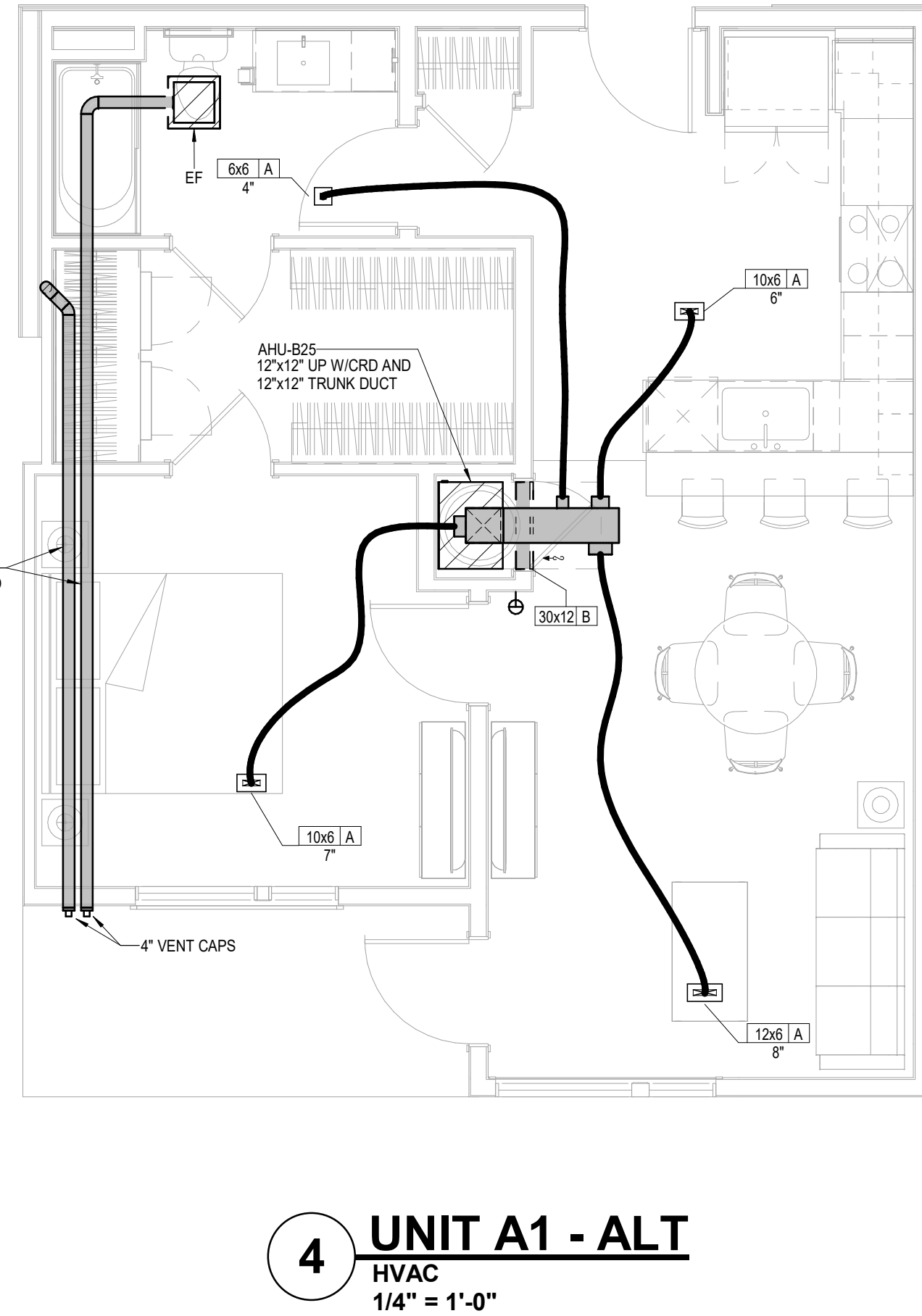
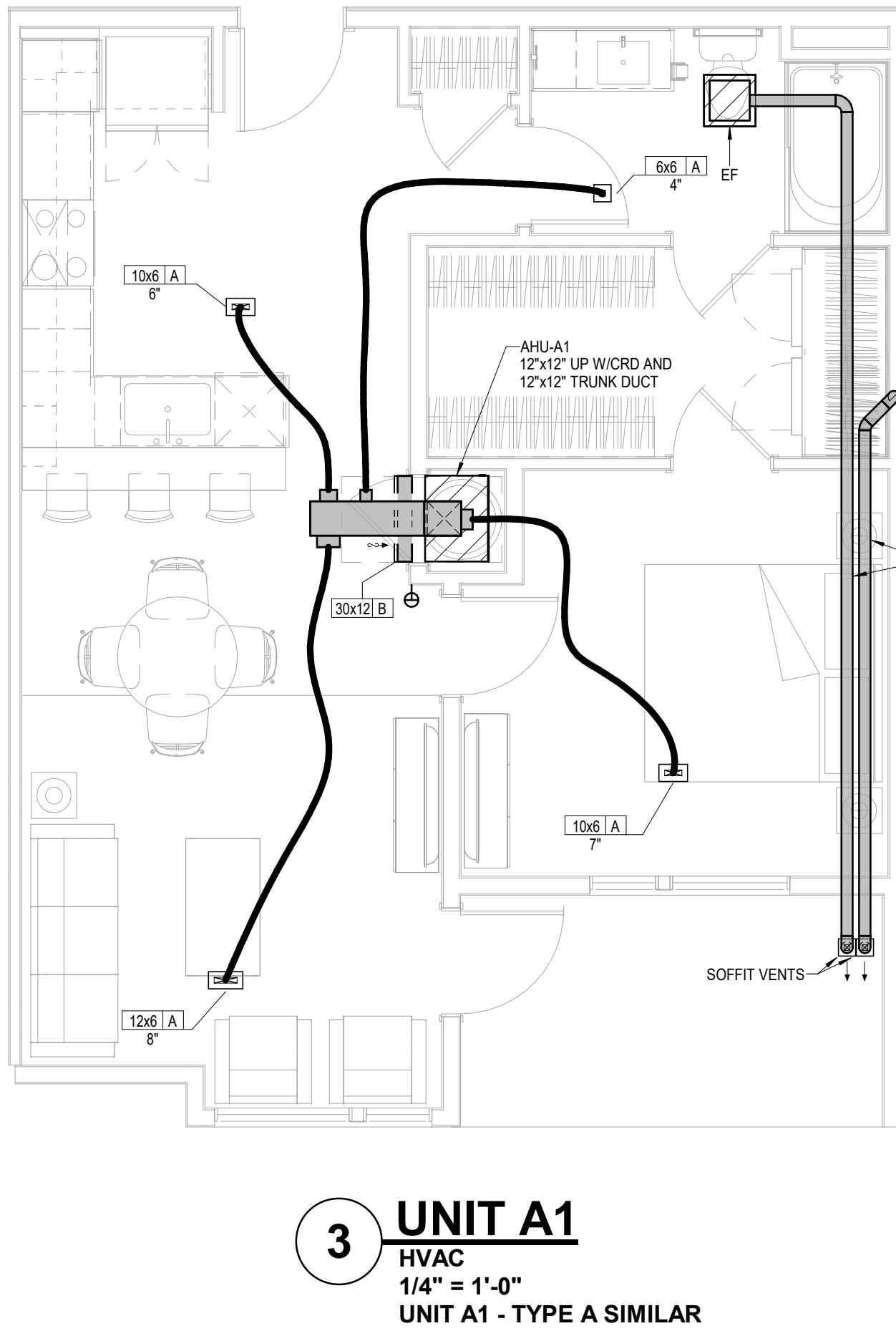
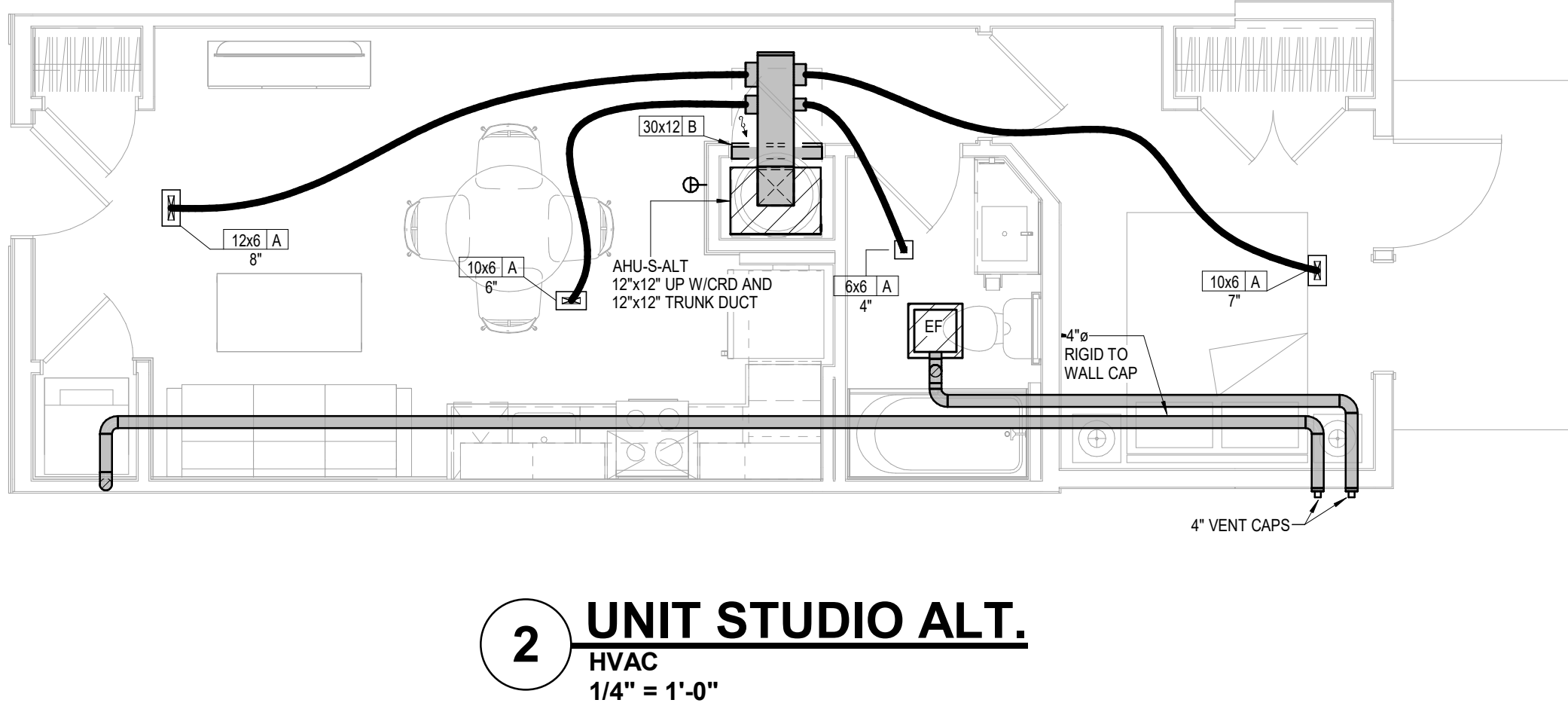
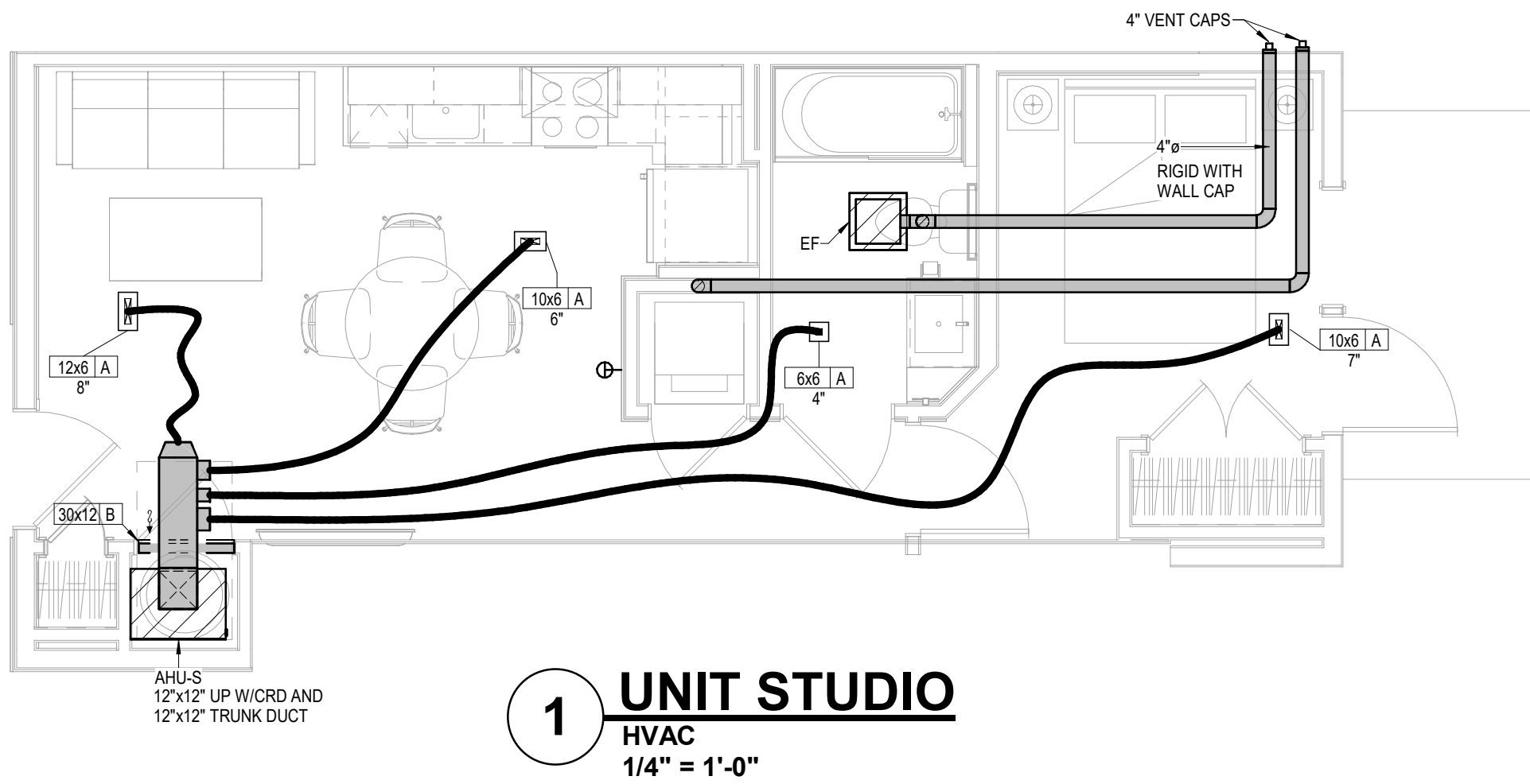
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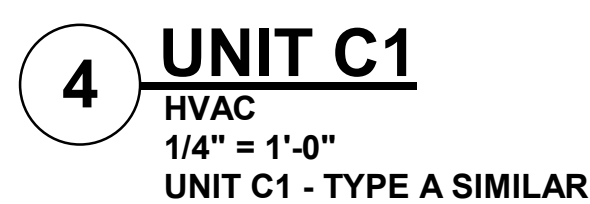
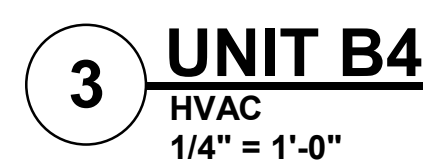
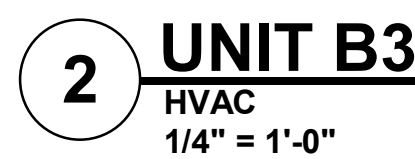
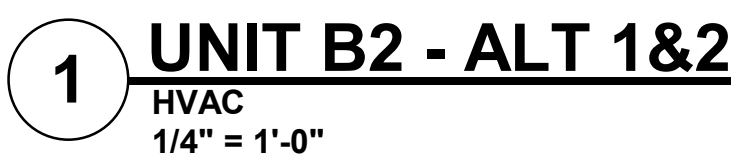
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MI.16



- UNIT MECHANICAL NOTES:**
- ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 - PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
 - ALL CONDENSING UNITS ARE ROOF MOUNTED.
 - MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 - PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 - GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 - MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
 - ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 - EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 - USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS, POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 - TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 - TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 - DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



- ## A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

 DRAWING RELEASE LOG

△ REVISIONS:

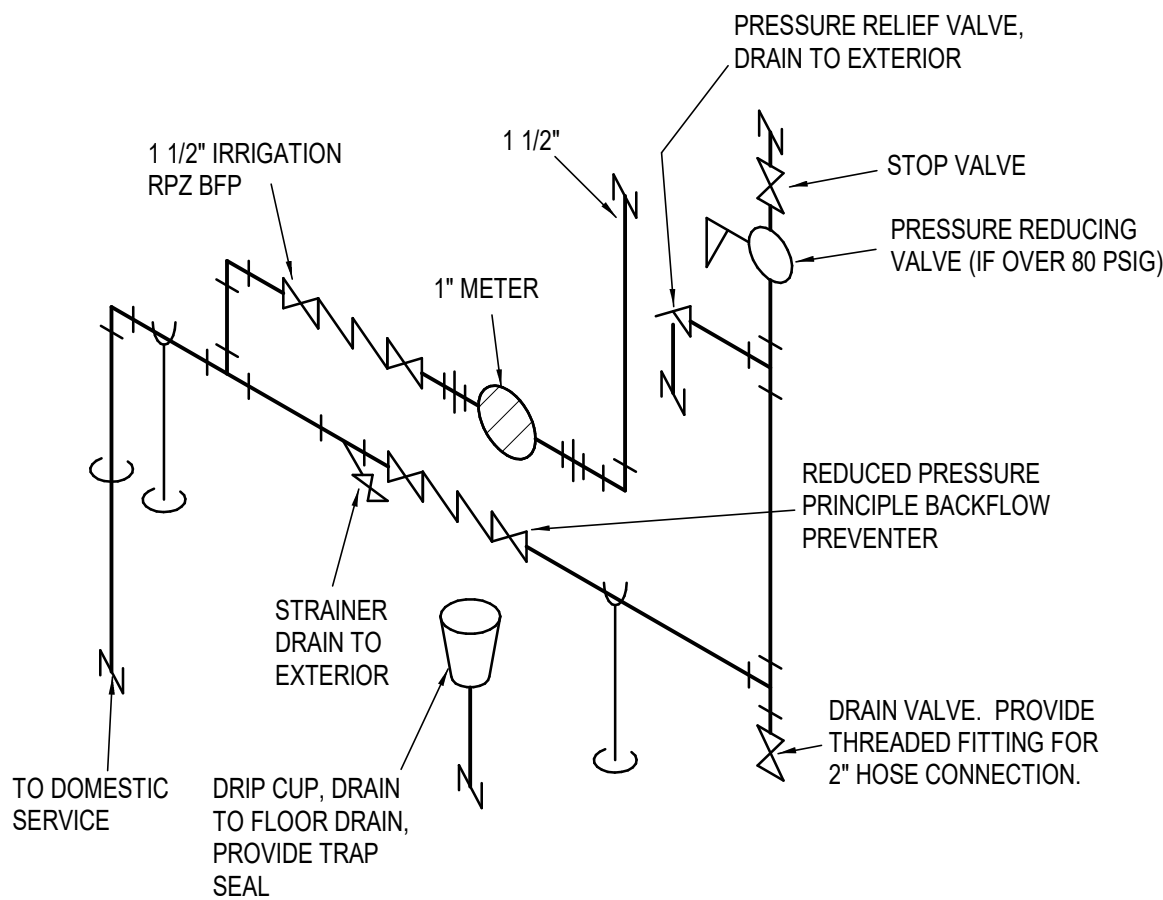
LS&A
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& Associates P.C.
CONSULTING ENGINEER
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Topeka, Kansas 6614-3974
8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204073

DATE:
3/24/2023
JOB NO.
696521
DRAWN BY:
Author
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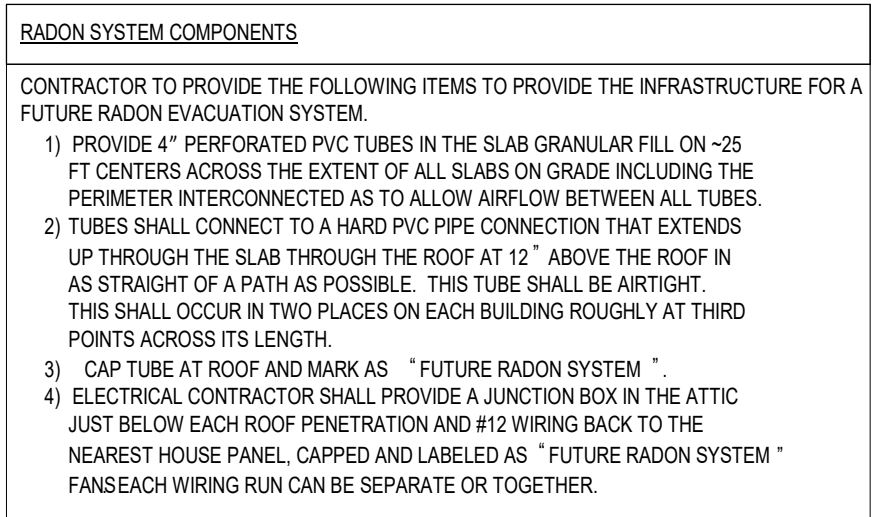
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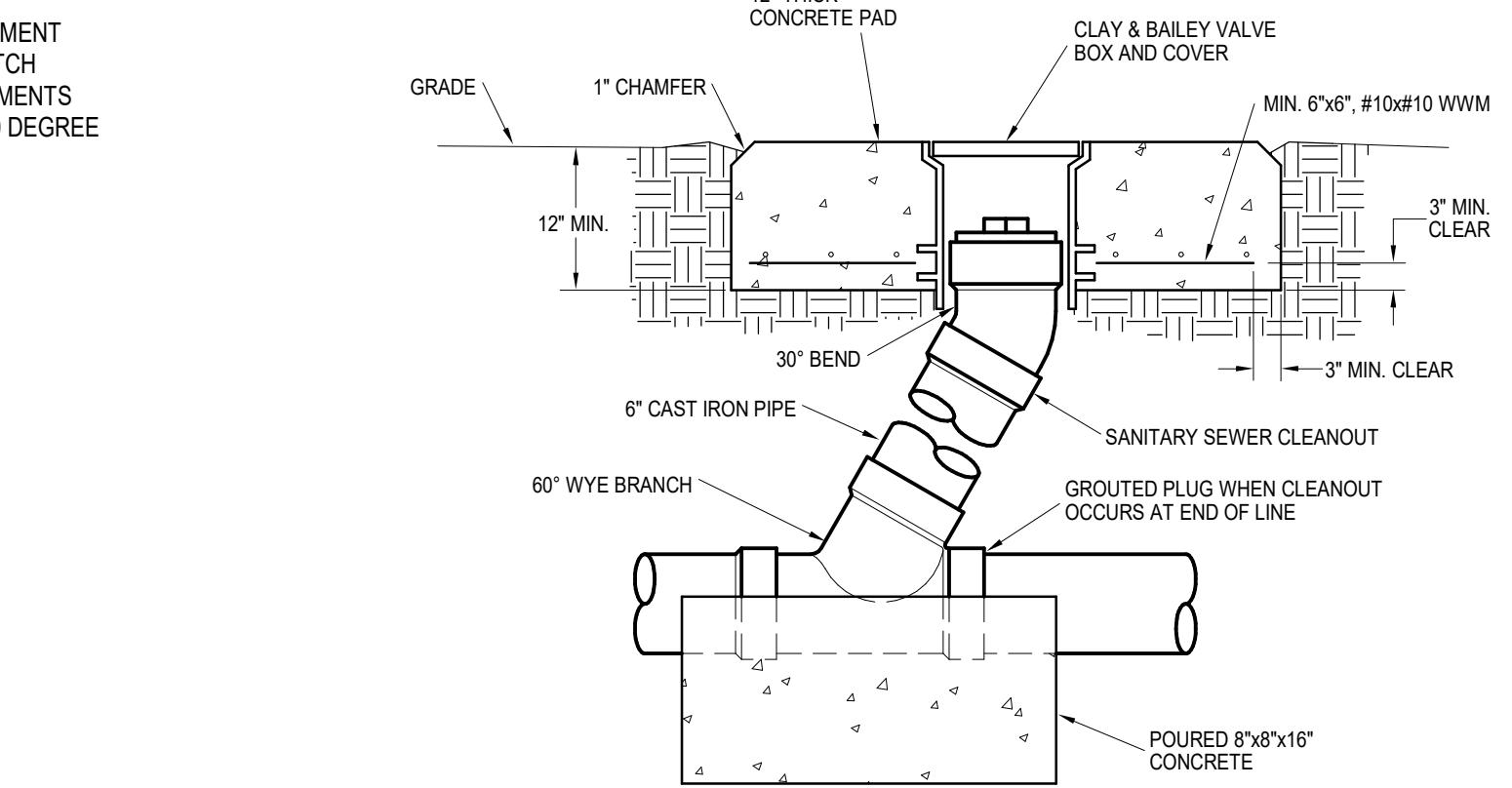
ARCH D 24" x 36" 3/24/2023 10:51:42 AM NSPJ ARCHITECTS © Autodesk Docs/Blackwell (Griffin Riley)/Blackwell MEP P22.rvt



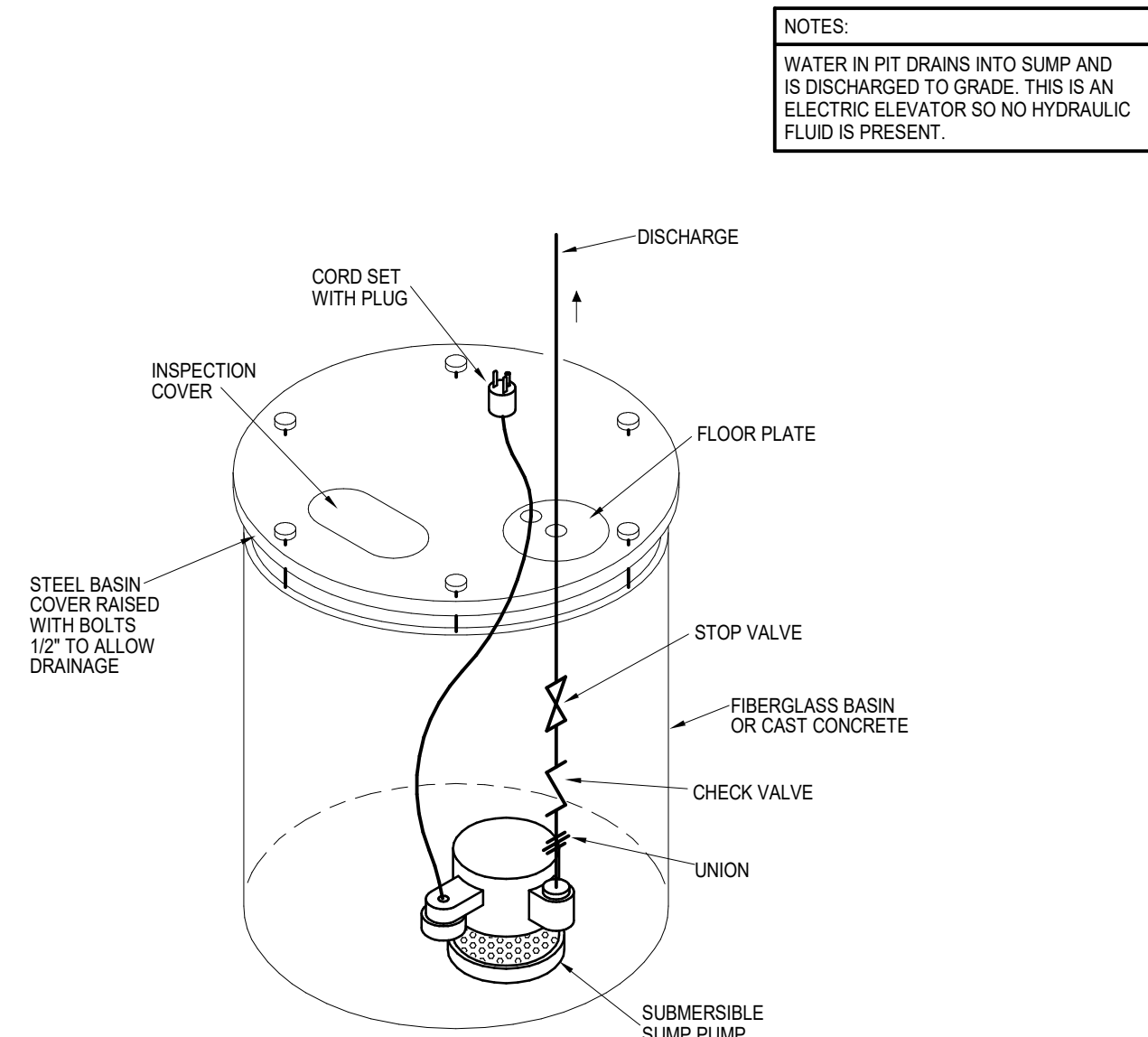
1 DOMESTIC WATER RISER
NOT TO SCALE



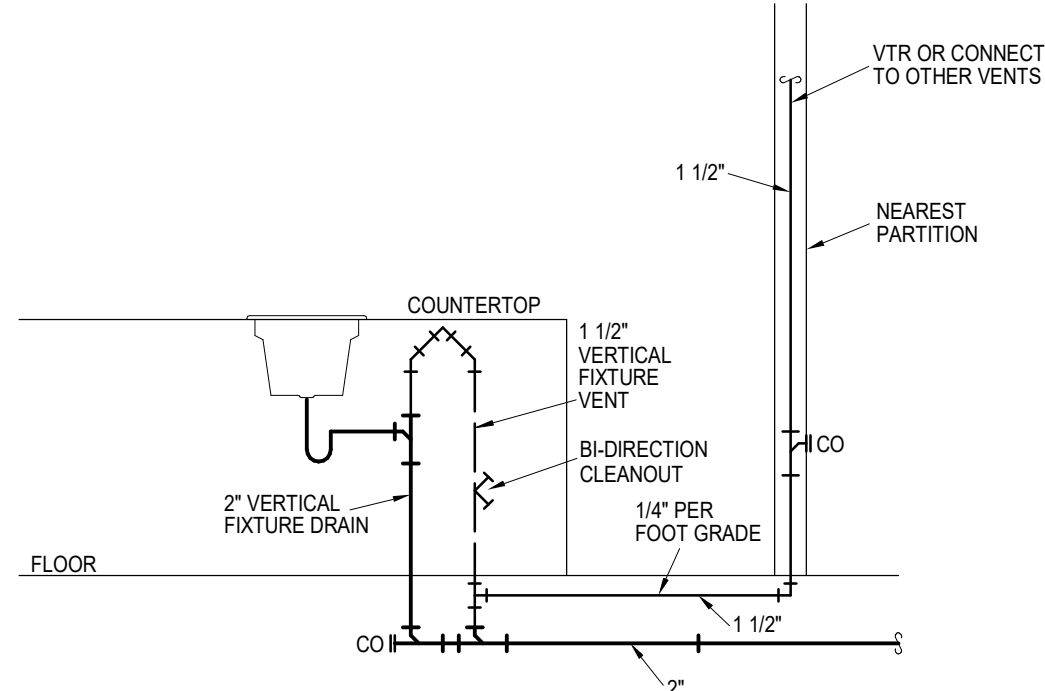
4 FIRE SUPPRESSION ENTRANCE DETAIL
NOT TO SCALE



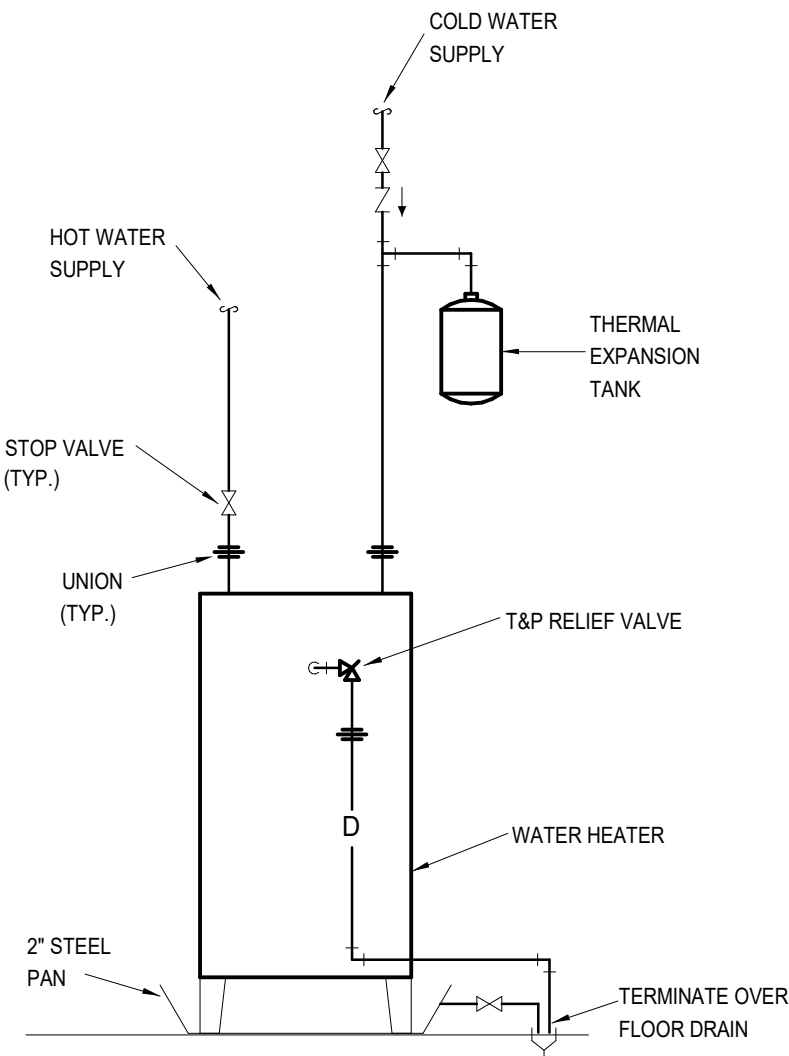
9 FLUSH GRADE CLEANOUT DETAIL
NOT TO SCALE



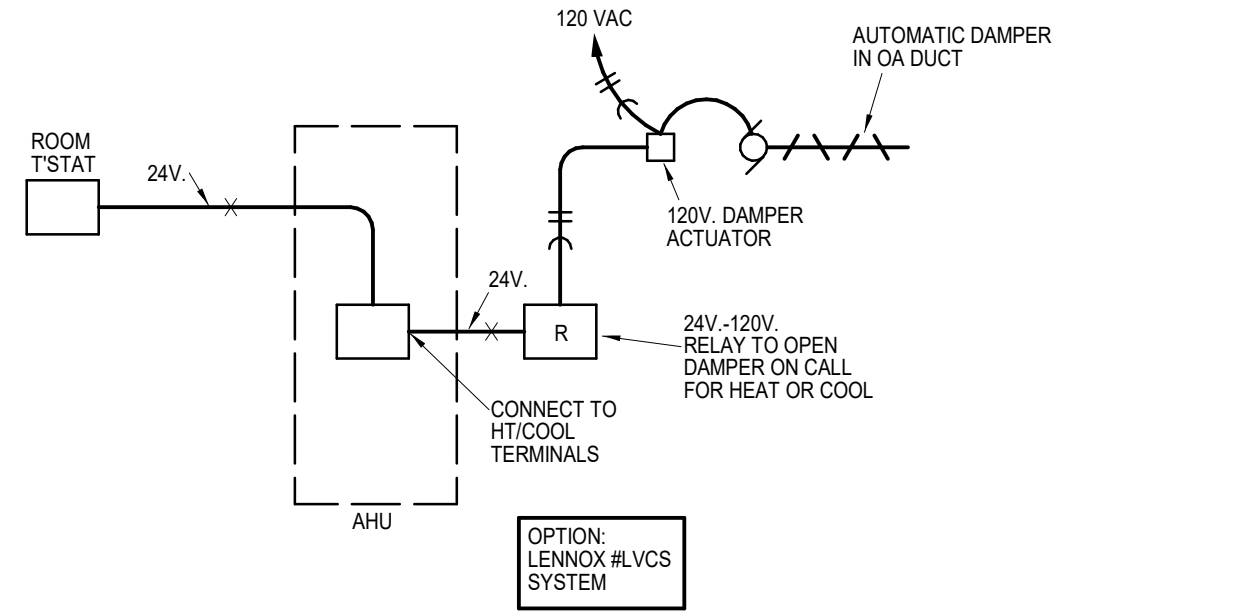
8 ELEVATOR SUMP PUMP DETAIL
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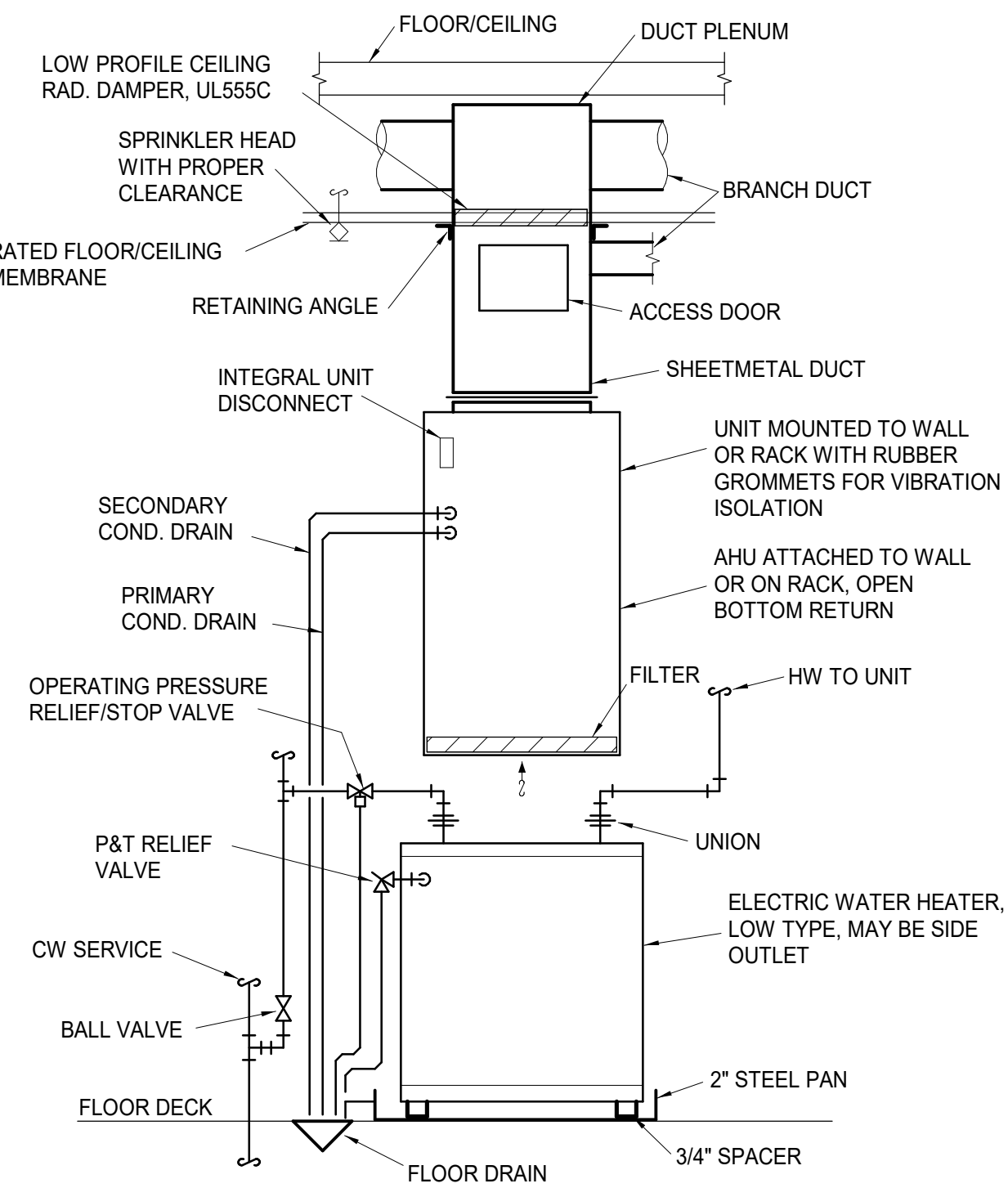
6 ISLAND VENT DETAIL
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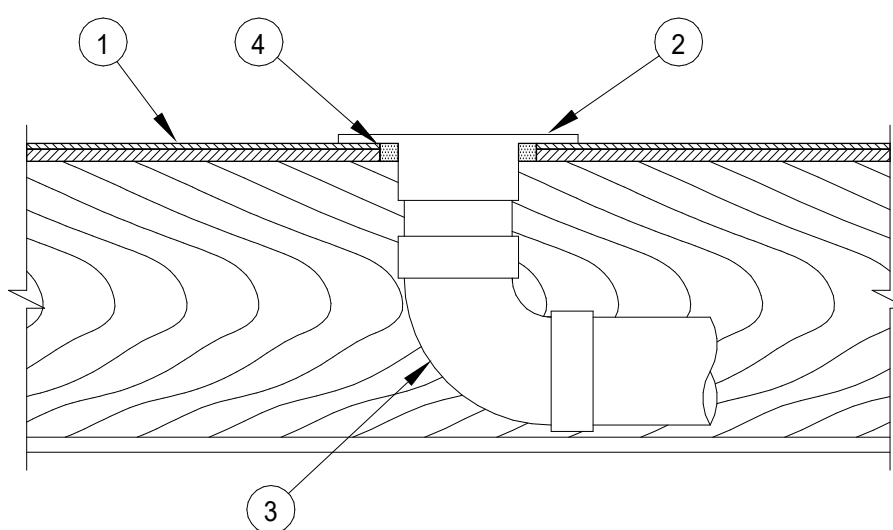
7 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE COMMON AREA



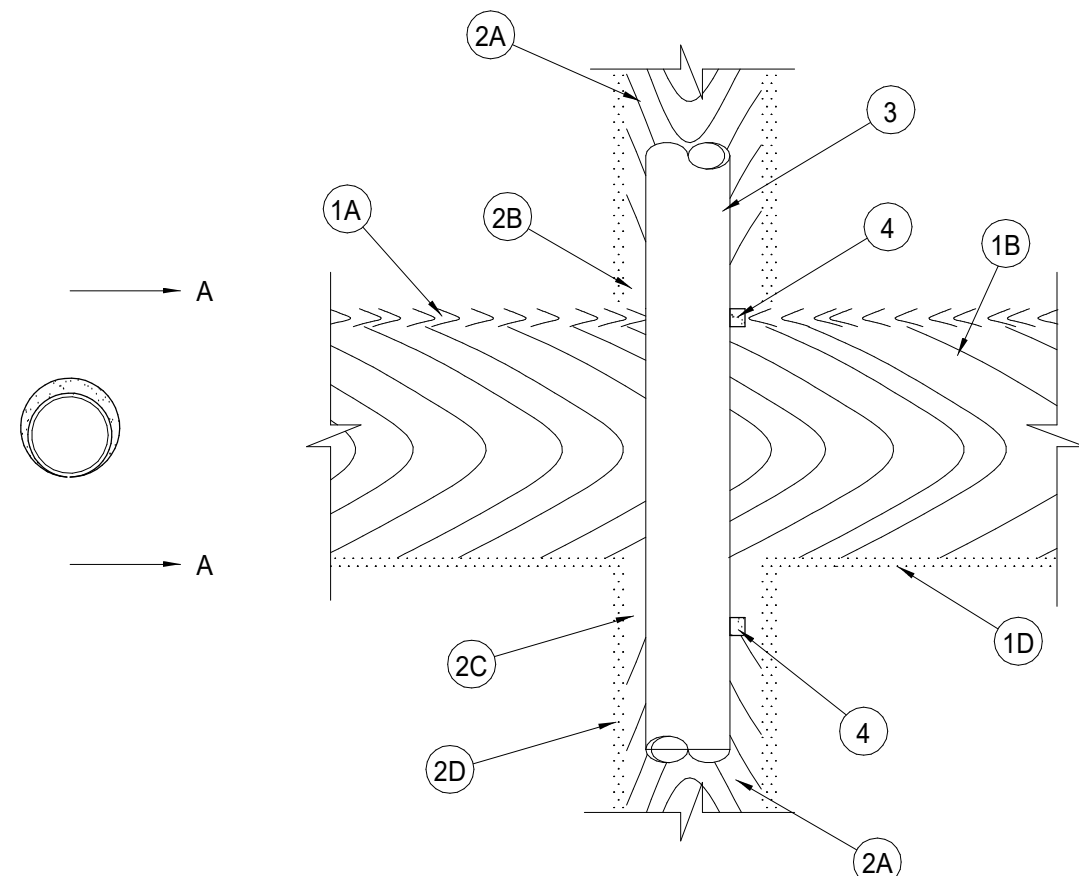
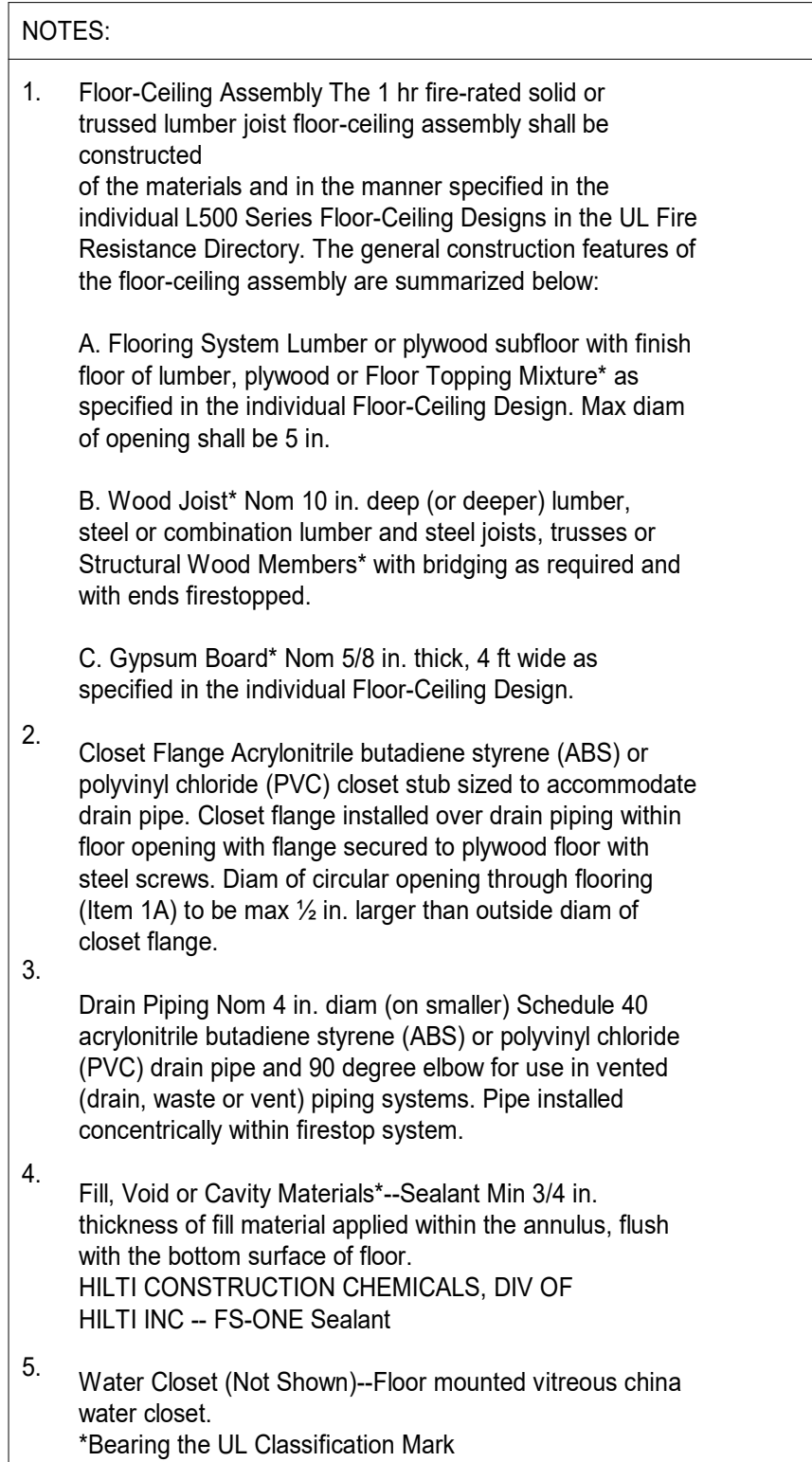
5 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE



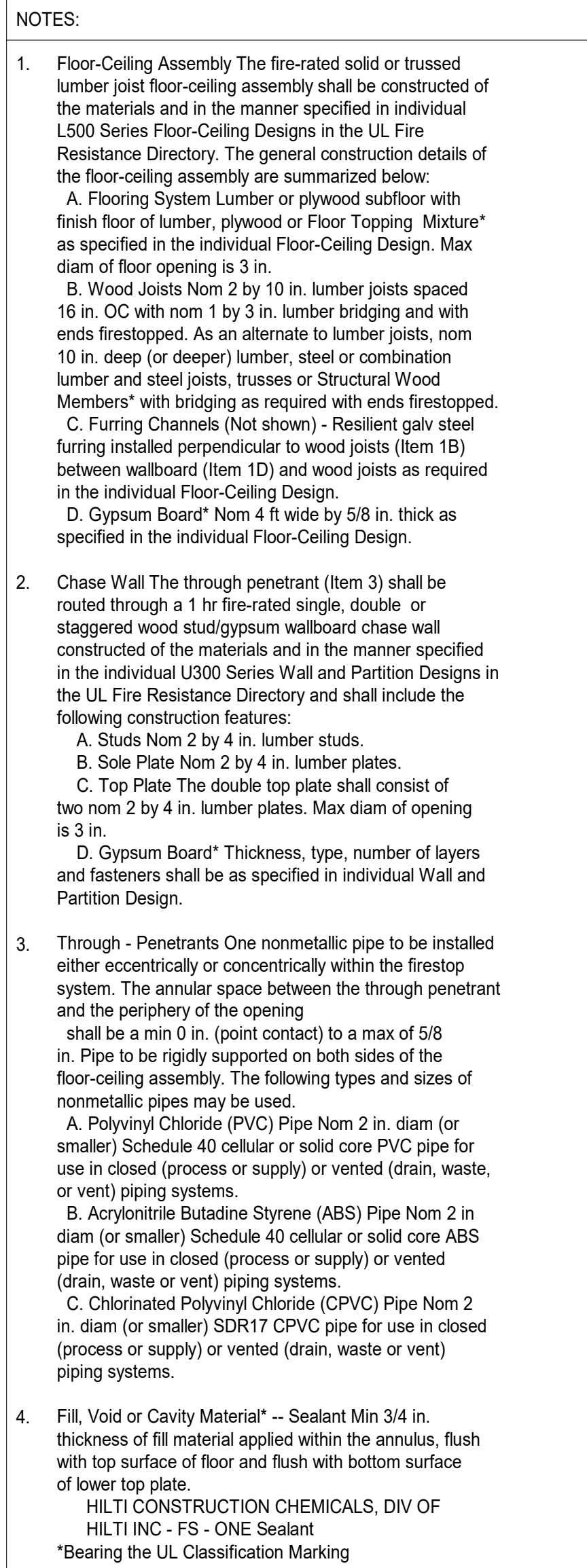
3 MECHANICAL CLOSET DETAIL
NOT TO SCALE



8 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-2203



9 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-2142



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DATE: 3/24/2023
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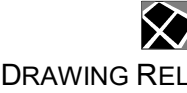
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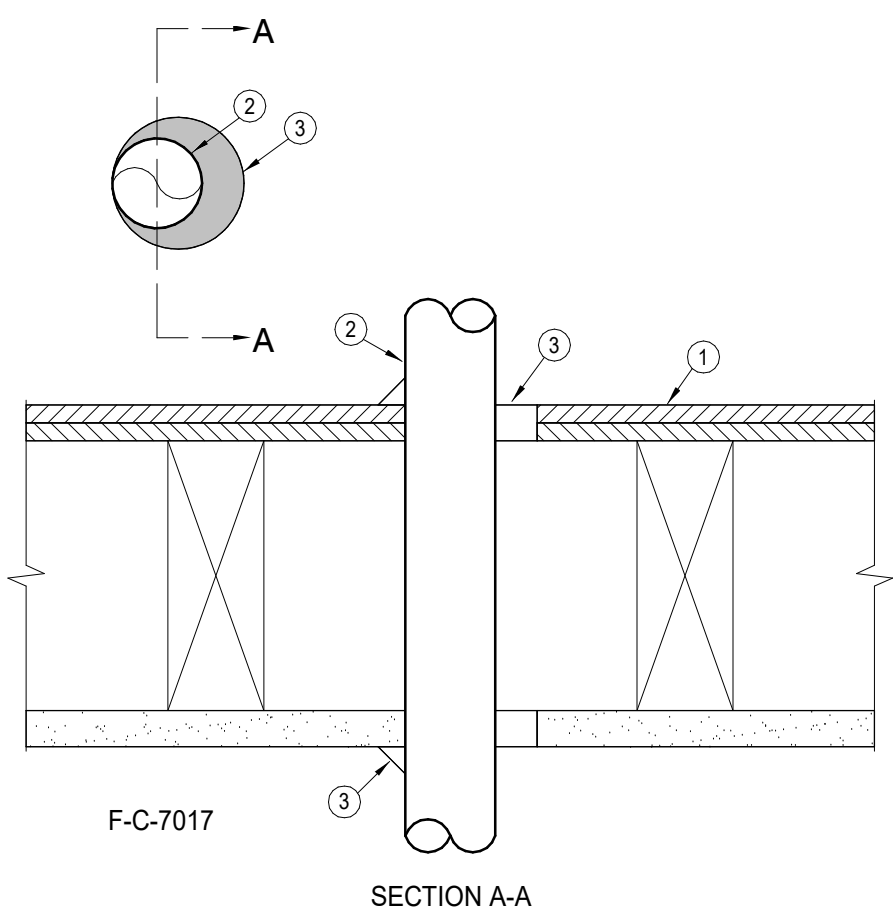
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A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

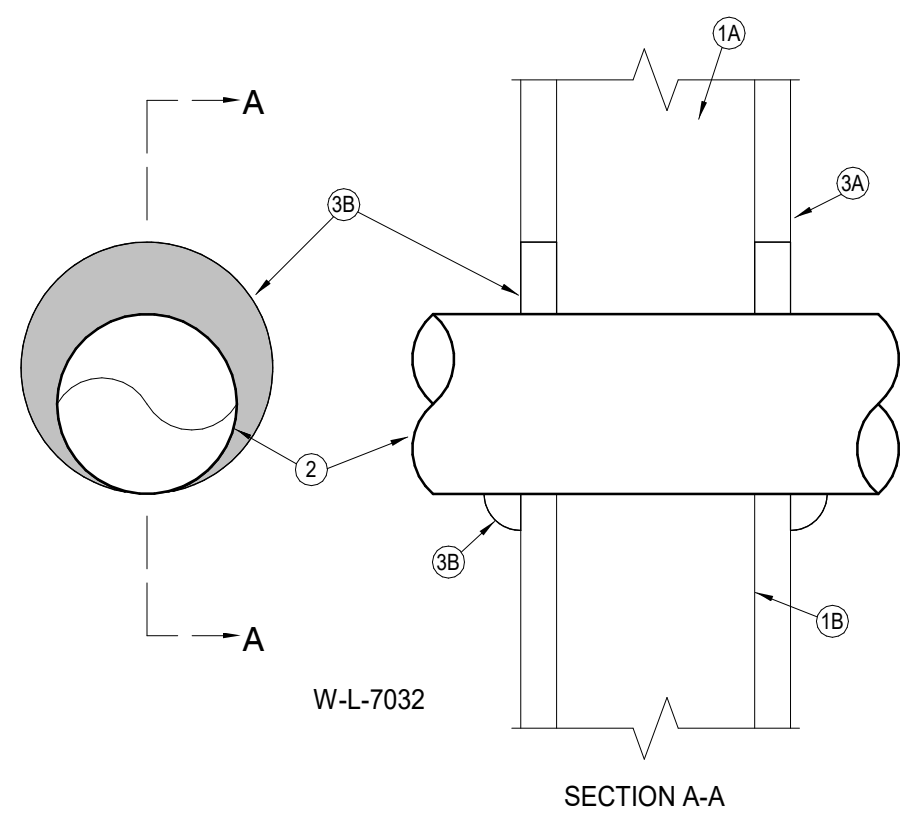


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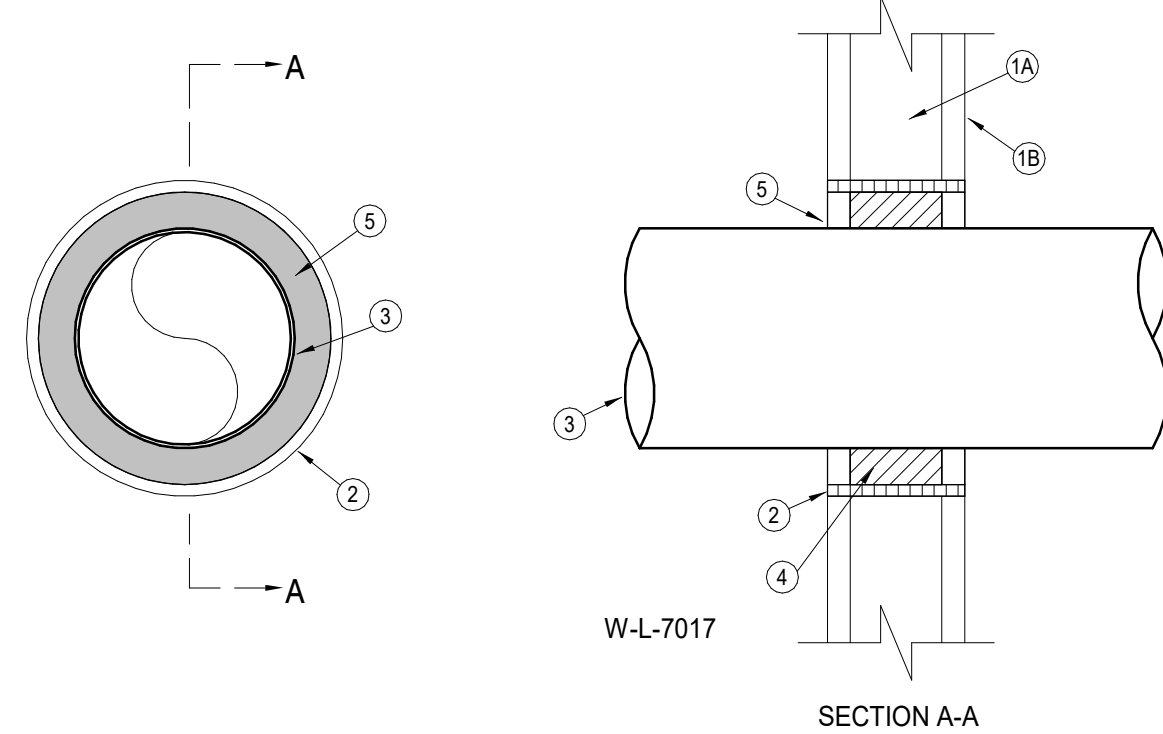
REVISIONS:



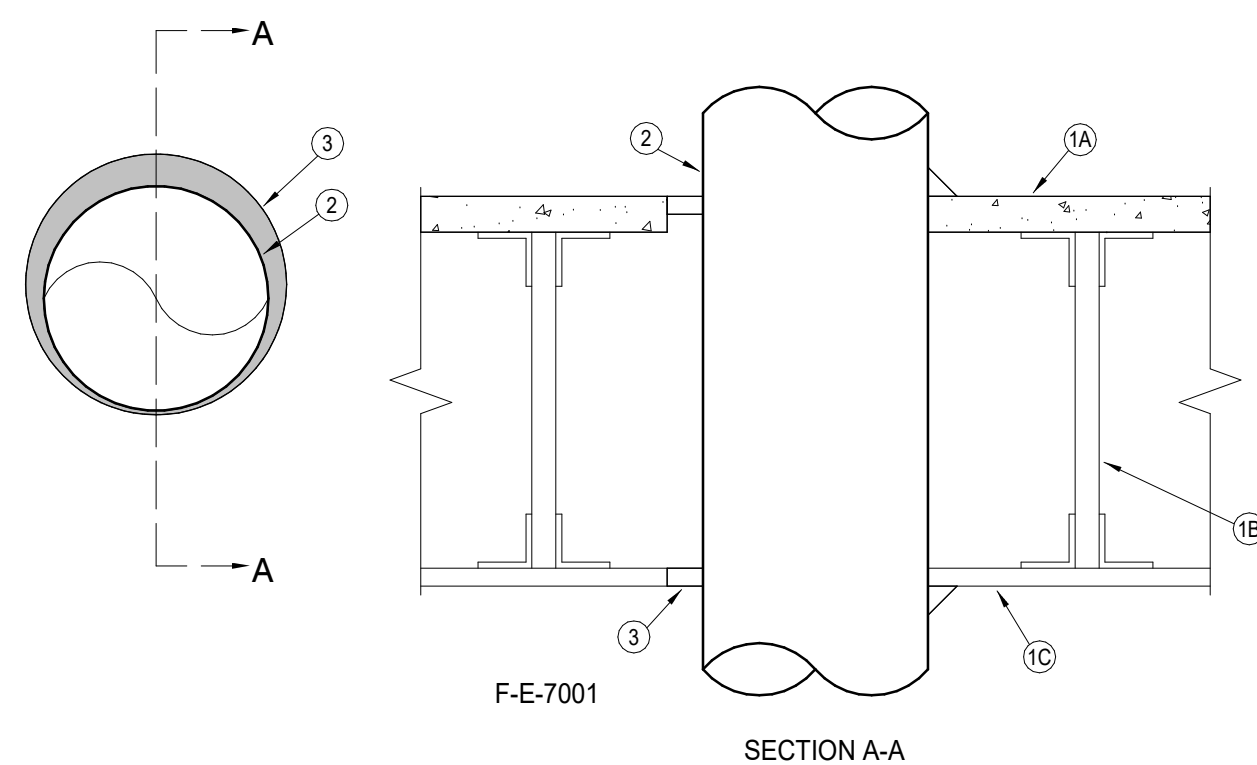
FIRE STOP SYSTEM F-C-7017 DETAIL



FIRE STOP SYSTEM W-L-7032 DETAIL



FIRE STOP SYSTEM W-L-7017 DETAIL



FIRE STOP SYSTEM F-E-7001 DETAIL

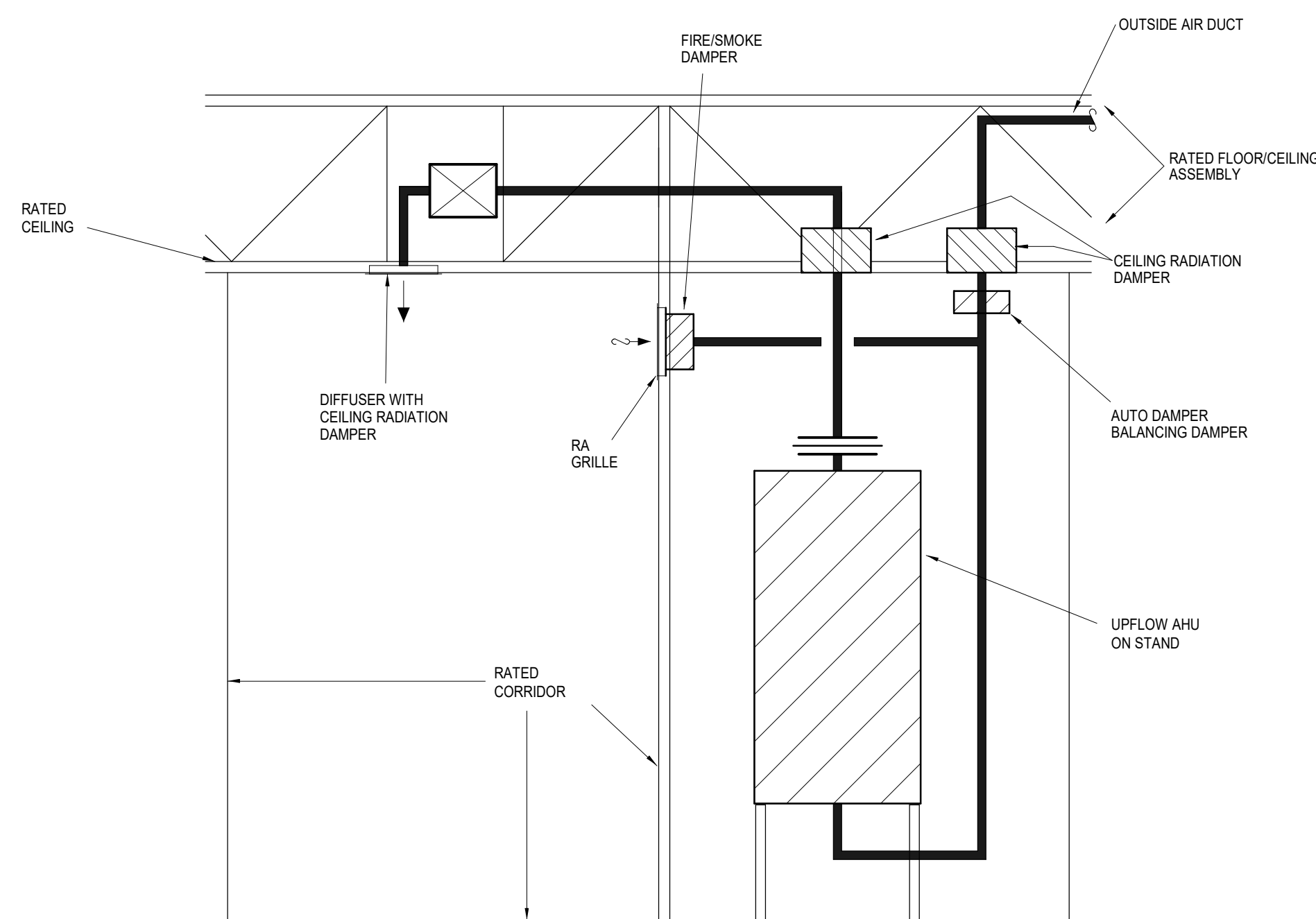
- LEGEND:**
- ① FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTION OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:
- A. FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. DIAMETER OF OPENING IS 5" (127mm).
- B. WOOD JOISTS - NOM 10" (254mm) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS WITH BRIDGING AS REQUIRED AND WITH ENDS FIRE-PROTECTED.
- C. GYPSUM BOARD - NOM 4" (102mm) THICKNESS BY 5/8" (16mm) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).
- ② CHASE WALL (OPTIONAL, NOT SHOWN): THE DUCT (ITEM 2) MAY BE ROUTED THROUGH WITH A FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/STUDS BOARD CHASE WALL, HAVING A FIRE RATING CONSISTENT WITH THAT OF THE FLOOR-CEILING ASSEMBLY. THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - NOM 2" BY 6" (51mm BY 152mm) OR DOUBLE NOM 2" BY 4" (51mm BY 102mm) LUMBER STUDS.
- B. SOLE PLATE - NOM 6" BY 6" (51mm BY 152mm) OR PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED.
- C. TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2" BY 6" (51mm BY 152mm) OR TWO SETS OF PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED. MAX OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).
- D. GYPSUM BOARD - THICKNESS TYPE, NUMBER OR LAYERS AND FASTENERS SHALL AS BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.
- ③ STEEL DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRST STEP SYSTEM. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (0mm) (POINT CONTACT) TO MAX 2" (51mm) DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY.
- ④ FILL VOID OR CAVITY MATERIALS - CAULK OR SEALANT - MIN 3/4" (19mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE. MIN. 5/8" (16mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. MIN 1/2" (13mm) DIAMETER BEAD OF CAULK APPLIED AT THE DUCT/FLOOR OR SOLE PLATE INTERFACE AT POINT CONTACT ON BOTH SIDES OF ASSEMBLY AND AT THE DUCT/CEILING OR TOP PLATE INTERFACE AT POINT CONTACT LOCATION ON BOTTOM SIDE OF ASSEMBLY.
- 3M COMPANY - FIREDEAM 150, 3P, 25WB+CAULK OR FB-3000 W/ SEALANT.
- * BEARING THE UL CLASSIFICATION MARK.

- LEGEND:**
- ① WALL ASSEMBLY - THE 1HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD OR STEEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 LUMBER SPACED MAX 16" O.C. STEEL STUDS TO BE MIN 3/12" WIDE AND SPACED MAX 24" O.C.
 - B. GYPSUM BOARD* - ONE LAYER OF MIN 5/8" THICK WALL BOARD AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAMETER OF OPENING IS 7".
 - ② STEEL VENT DUCT - NOM 6" DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. AN ANNUAL SPACE OF MIN. 0" (POINT CONTACT) TO MAX. 1" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - ③ FILL VOID OR CAVITY MATERIAL - CAULK OR SEALANT - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD, A MIN. 1/2" DIAMETER BEAD OF SEALANT SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF WALL ASSEMBLY.
- 3M COMPANY - CP 25WB-CAULK OR FB-300 WT SEALANT
- * BEARING THE UL CLASSIFICATION MARKING.

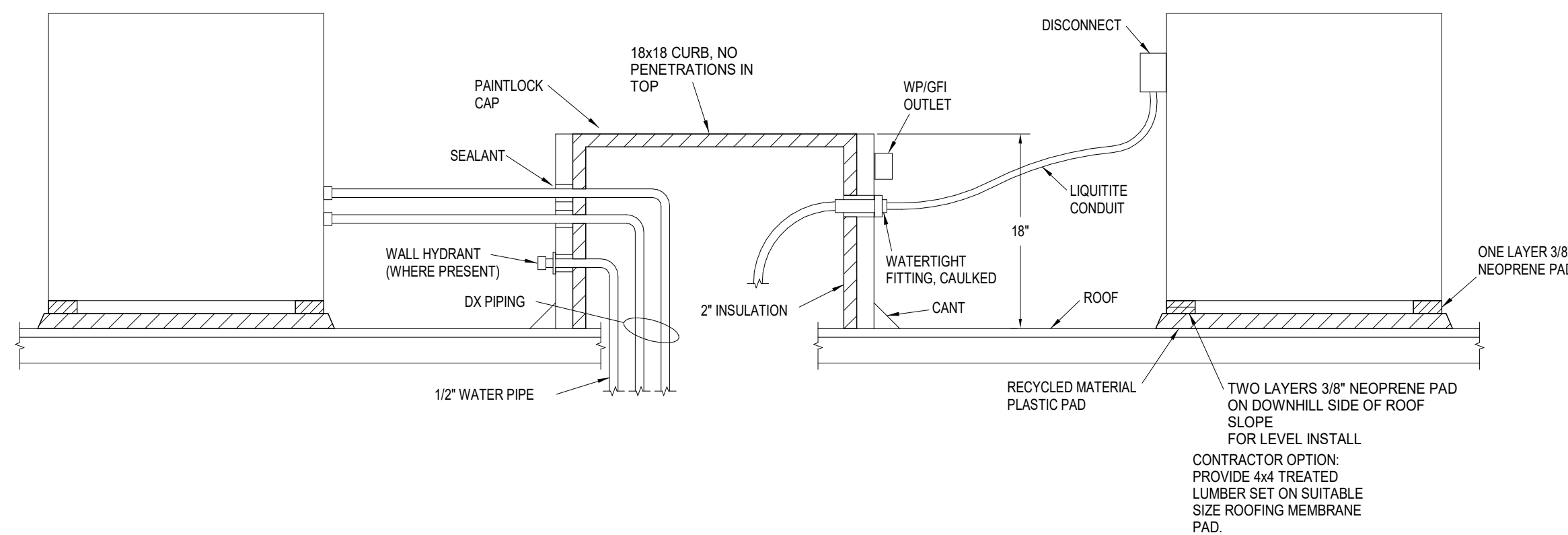
- LEGEND:**
- ① WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL I3000 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - WALL FORMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2" BY 4" LUMBER SPACED 16" O.C. STEEL STUDS TO BE MIN. 2 1/2" WIDE AND SPACED MAX. 24" O.C.
 - B. GYPSUM BOARD - ONE LAYER OF NOM 5/8" THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAMETER OF OPENING IS 8 5/8"
 - ② METALLIC SLEEVE - NOM 8" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST INTO WALL ASSEMBLY WITH JOINT COMPOUND AND INSTALLED FLUSH WITH WALL SURFACES.
 - ③ AIR DUCT - NOM 8" DIAMETER (OR SMALLER) PREFABRICATED NO. 28 MSG GALVANIZED SHEET METAL DUCT. A MIN. 1/2" TO MAX. 1 1/2" ANNUAL SPACE IS REQUIRED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
 - ④ FORMING MATERIAL - FOAMED PLASTIC FORMING MATERIAL, FOAMED INTO OPENING AS A PERMANENT FORM. FORMING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CF810, CF812 OR CF511 FOAM SEALANT.
 - ⑤ FILL, VOID OR CAVITY MATERIAL - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT
- *BERATING THE UL CLASSIFICATION MARK

- LEGEND:**
- | | |
|---|---|
| ① | FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED CONCRETE AND STEEL JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL G500 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:
A. FLOORING - NORMAL OR LIGHTWEIGHT CONCRETE AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 1" (279mm).
B. JOISTS - STEEL JOISTS OR STRUCTURAL STEEL MEMBERS* AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN.
C. GYPSUM BOARD* - MIN. 5/8" (16mm) THICK, SCREW-ATTACHED TO FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 1" (279mm). |
| ② | STEEL VENT DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT OR NOM 10" (254mm) DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT. DIAMETER OF OPENINGS TO BE MAX. 1" (25mm) LARGER THAN OUTSIDE DIAMETER OF DUCT. DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY IN OPENING. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (POINT CONTACT) TO MAX. 1" (O TO MAX 25mm). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY. |
| ③ | FL. VOID OR CAVITY MATERIALS - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF FL. MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN. 5/8" (16mm) THICKNESS OF APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4" (6mm) BEAD OF FL. MATERIAL APPLIED AT THE DUCT/FLOOR INTERFACE AT POINT CONTACT LOCATION. THE TOP SURFACE OF FLOOR AND AT THE DUCT/CEILING INTERFACE AT POINT CONTACT LOCATION ON THE LOWER SURFACE OF CEILING. |
- 3M COMPANY - CP 25WB-IC 15WB+CAULK OR FB-3000 WT SEALANT.
- * BEARING THE UL CLASSIFICATION MARKING.

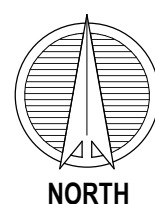
1 FIRE STOP SYSTEM DETAILS



2 CORRIDOR AHU DETAIL - WALL RETURN



3 ROOF MOUNTED CONDENSING UNIT DETAIL



3-24-23

**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO

A NEW DEVELOPMENT:

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△ REVISIONS

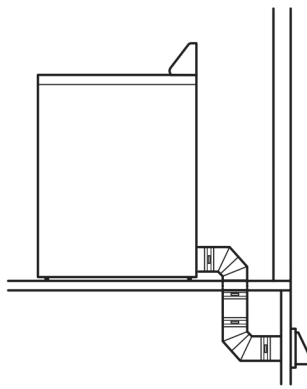


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TOP LOAD DRYER

Special provisions for mobile home installations:
The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



- Determine vent path:
- Select route that will provide straightest and most direct path outdoors.
 - Plan installation to use fewest number of elbows and turns.
 - When using elbows or making turns, allow as much room as possible.
 - Bend vent gradually to avoid kinking.
 - Use as few 90° turns as possible.

- Determine vent length and elbows needed for best drying performance:
- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
NOTE: Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
 - Shorten life of dryer.
 - Reduce performance, resulting in longer drying times and increased energy usage.

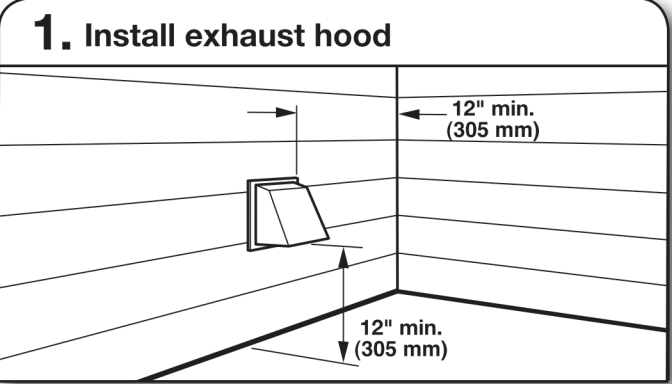
The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

Vent System Chart			
Number of 90° turns or elbows	Type of vent	Box/louvered hoods	Angled hoods
0	Rigid metal	64 ft. (20 m)	58 ft. (17.7 m)
1	Rigid metal	54 ft. (16.5 m)	48 ft. (14.6 m)
2	Rigid metal	44 ft. (13.4 m)	38 ft. (11.6 m)
3	Rigid metal	35 ft. (10.7 m)	29 ft. (8.8 m)
4	Rigid metal	27 ft. (8.2 m)	21 ft. (6.4 m)

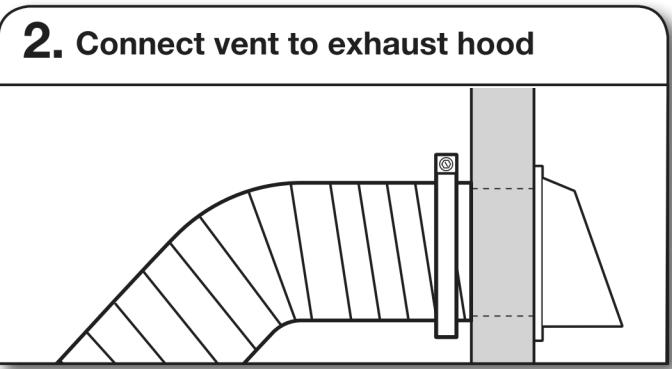
Vent System Chart
(29" Wide Long Vent WED/WGD4870 and WED/WGD4975 Models Only)

Number of 90° turns or elbows	Type of vent	Box/louvered or angled hoods
0	Rigid metal	160 ft. (48.8 m)
1	Rigid metal	150 ft. (45.7 m)
2	Rigid metal	140 ft. (42.7 m)
3	Rigid metal	130 ft. (39.6 m)
4	Rigid metal	120 ft. (36.6 m)
5	Rigid metal	110 ft. (33.5 m)

INSTALL VENT SYSTEM



Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.



Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.



Ceiling Radiation Damper
3 Hour Rated
For Use in Static Systems
Models 5680 Submittal

Filename: Prefco Submittal 5680 Rev 27/12/14

Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 3 hours or less. Standard fire dampers (1 1/2 & 3 hr.) do not provide the required protection.

Standard Construction

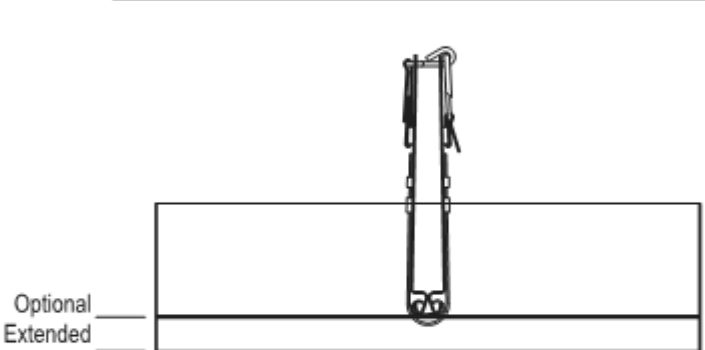
- **Frame**
21 GA Galvanized Steel
- **Blades - Full Length Hinge**
21 GA Galvanized Steel
- **Closure Springs**
Stainless Steel
- **Fusible Link - UL-33**
UL Listed 212F (standard) 165 F (optional)
McCabe Link (optional)
- **Insulation (blade)**
Ceramic Fiber

Model 5680 meets or complies with the following as a ceiling radiation damper.

- **NFPA Standards**
- **All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code**

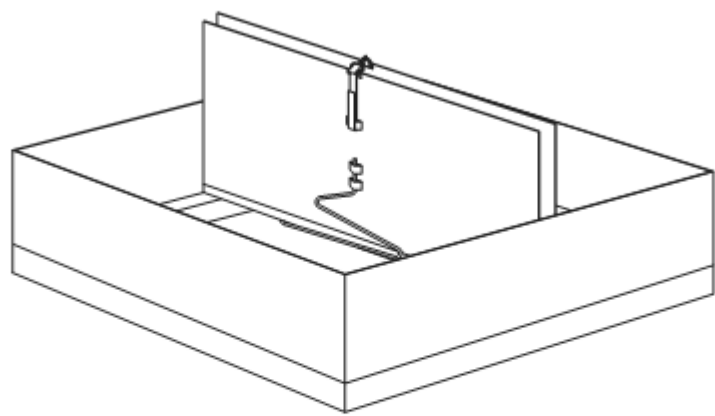
- UL 555C Listing 3 Hour - File #R7365
- CA State Fire Marshall - #3225-1518-103

High Free Area Design
Optional Volume Control Device (5965)

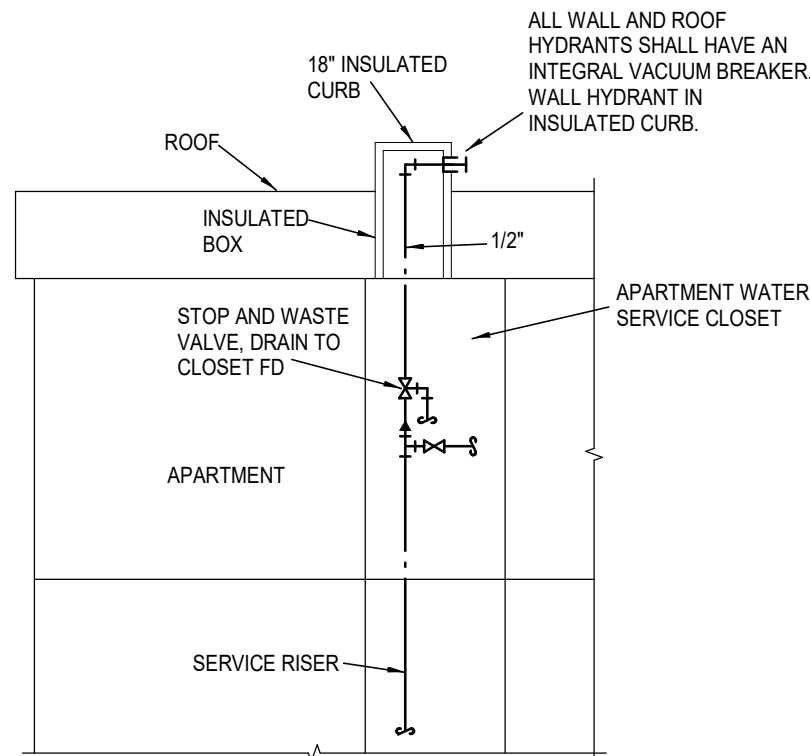


Standard Sizes (duct)	
Minimum	4 1/2" x 4 1/2"
Maximum	24" wide or 30" long - 576 sq. in. total max.

- NOTES:
- Dampers are fabricated 3/16" under ordered diameter for clearance
 - Approved for use in any UL Fire Resistance Directory Series Designs
 - For 2 hour rating, refer to Model 5660

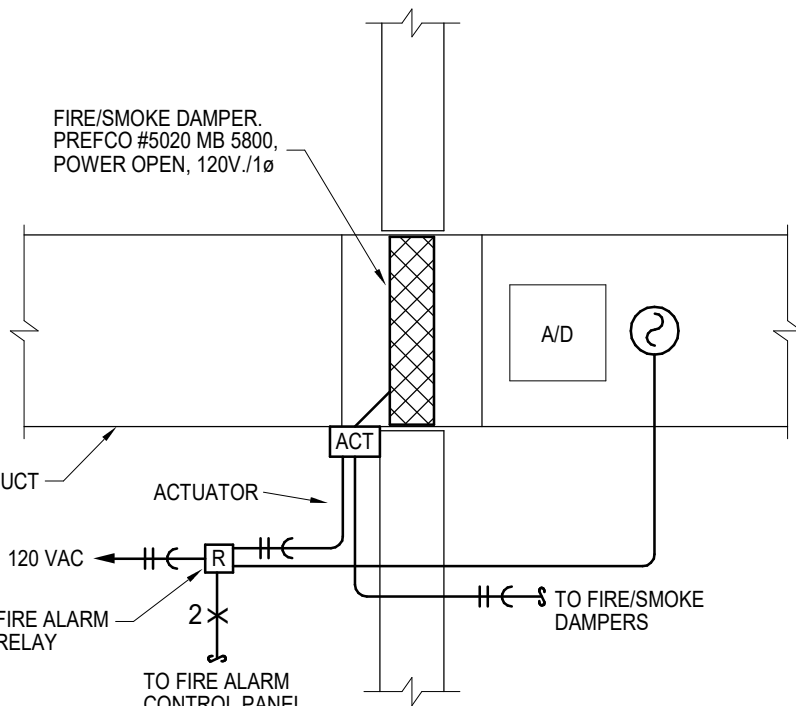


A dim. is always width of blades

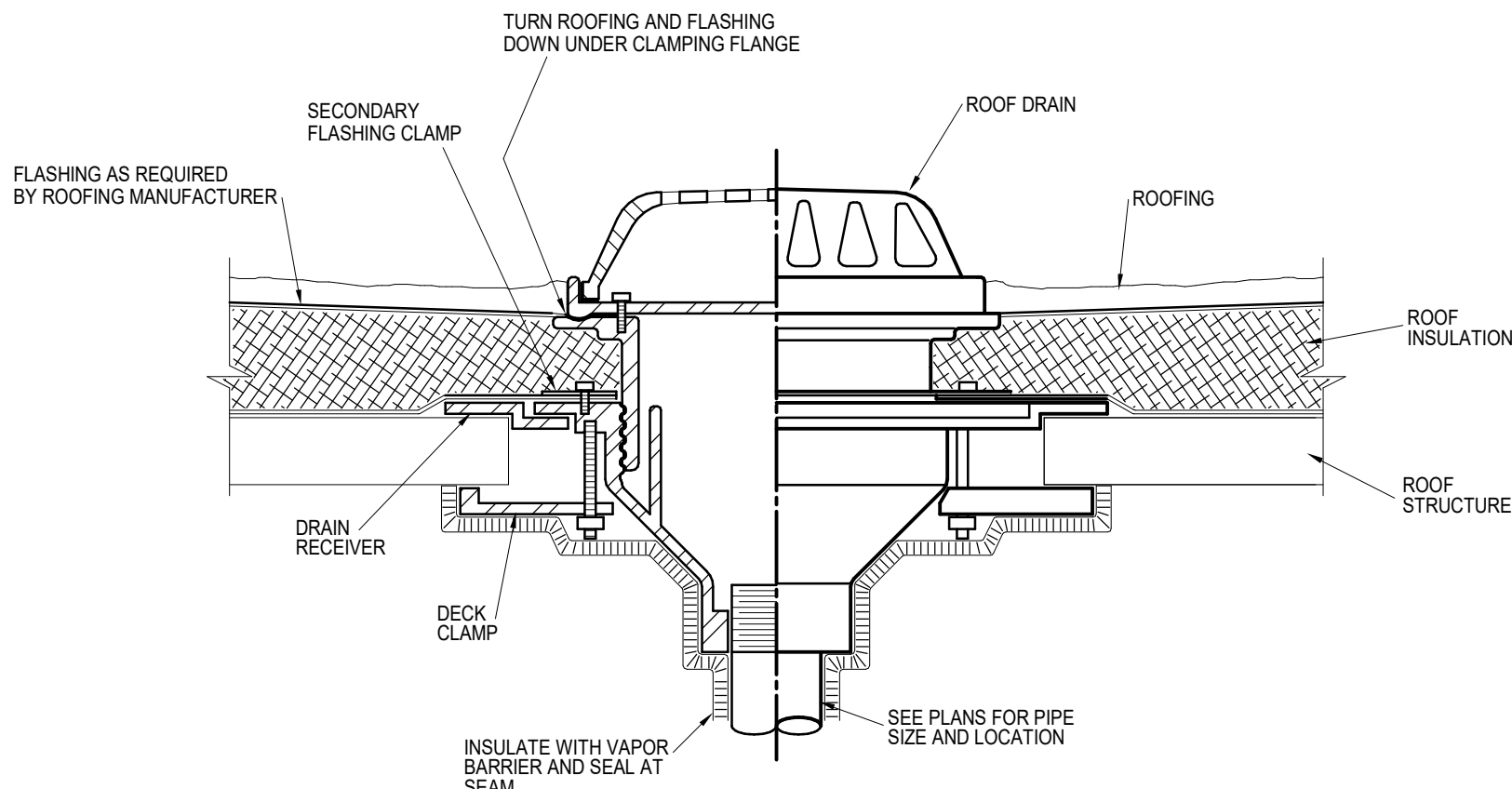


IMPORTANT: HYDRANT MUST BE DRAINED DURING FREEZING TEMPERATURES.

5 ROOF WATER HYDRANT DETAIL
NOT TO SCALE



1 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



3 ROOF DRAIN DETAIL
NOT TO SCALE



3-24-23



DRAWING RELEASE LOG

REVISIONS:



DATE:
3/24/2023
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MP1.03

ARCH D 24" x 36"

PLUMBING FIXTURE SCHEDULE													
Mark	Item	Model	Description	Individual Connections				Accessories					
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
P-1, P-1P	Water Closet, Tank Type	Proflo #1201WH with PFTS2000wh	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic closed front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Provide open front seat at public restrooms.	3" or 4"	2"	1/2"		2	1				3
P-1H, P-1HP	Accessible Water Closet, Tank Type	Proflo #1203WH with PFTS2000WH	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Provide open front seat at public restrooms.	3" or 4"	2"	1/2"		2	1				3
P-2	Lavatory, Undermount	Gerber 12-790 with Peerless P136-M	22" x 17" oval vitreous china undermount lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, brushed nickel finish.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1	1	
P-2P	Accessible Lavatory, Countertop	Proflo #PF20174BS with Peerless #PFL11011MBN	20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish.	2"	1 1/2" or 2"	1/2"	1/2"	2, 4	1		1, 2	1	1
P-3	Tub/Shower	Sterling # 71171110-0 Peerless #PTT88775	60" x 30" reinforced resin tub basin with slip-resistant bottom, turn and lock drain outlet. Pressure-balanced single lever handle valve, 2.2 gpm with large head, satin nickel showerhead, turn and lift drain fitting and diverter spout.	2"	2"	1/2"	1/2"						3
P-3W	Tub/Shower	Sterling # 71101110-0 Peerless #PTT88775	60" x 36" reinforced resin tub basin with slip-resistant bottom, turn and lock drain outlet. Pressure-balanced single lever handle valve, 2.2 gpm with large head, satin nickel showerhead, turn and lift drain fitting and diverter spout.	2"	2"	1/2"	1/2"						3
P-3S	60" Shower	Sterling # 721811X0 and Peerless #PTT88775	60" x 36" reinforced resin stall with slip-resistant bottom. Provide pressure balanced 2.2 gpm valve with large head, satin nickel, lever handle. See Arch for door.	2"	2"	1/2"	1/2"						3
P-4	Kitchen Sink	PROFLO #PFSR332274 with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 8" deep. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		1	2	1
P-4S	Kitchen Sink - Small	PROFLO #PFUC307A with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 24" x 20" x 9" deep. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		1	2	1
P-4H	Accessible Kitchen Sink	Elkay #GECR3321 with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 6" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearances.	2"	2"	1/2"	1/2"	1	1		1, 2	2	1
P-5	Washer Box	Guy Gray #WB200HATM	Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers.	2"	2"	1/2"	1/2"	1			3		
P-6	Water Outlet Box	Guy Gray #MIB2haab	Recessed non-metallic with angle quarter turn stop.			1/2"		1					
P-7	Single Bowl Sink	Elkay #DLFR191810PD, with Peerless #P7948LF	Stainless steel under-mount 18 ga single bowl 19" x 18" x 10-1/8" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearances.	2"	2"	1/2"	1/2"	1	1		2	2	3
P-8	Janitor's Sink	Fiat #MSB-2424	24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout and wall shileds.	2" or 3"	2"	1/2"	1/2"				2		2
P-9	Dog Wash	Flying Pig Grooming FP702, with FPTU-ACC and Striem Sidekick	6'-10"x 2'-6" Stainless steel dog wash with ADA cling on ramp.Discharge directly to floor drain.With Striem Sidekick solids interceptor.	2"	2"	1/2"	1/2"	2		1	1	1	
Supplies	1 - Flexible braided stainless steel 2 - Flexible braided compression hose. 3 - Sloan Royal 186 1.0 gpf diaphragm type. 4 - Provide tempering valve below sink set at 110 deg 5-5 Sloan #8111 1.6 gpf diaphragm type sensor-activated flush valve.												
Stops	1 - Angle handle compression												
Carrier	1 - Steel tube floor-mounted in-wall carrier with arms 2 - Cast iron floor mount adjustable carrier for water closet												
P-Trap	1 - PVC with deep escutcheon 2 - Protective trap/supply covers 3 - deep seal PVC trap and 30" standpipe.												
Drain	1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece. 3 - Chrome drain cover.												
Other	1 - Provide trap and supply guard if exposed. 2 - Hose and bracket, mop hanger and hose rack. 3 - Open front seat in public restrooms 4 - Provide Watts Tempering valve, max 110 Deg. F.												

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HVAC SYSTEM SCHEDULE																				
MARK APARTMENTS	MFGR	NOM TON	MODEL	CFM	AHU									MFGR	OUTDOOR UNIT					NOTES
					OA CFM	E.S.P.	HP	SMBH	TMBH	HEAT CAP	ELEC	FLA	OCP		MODEL	ELEC	FLA	OCP	SEER	
GS, S UNITS	GOODMAN	1 1/2	AWST1905	550		0.5	0.2	12.4	17.4	3.7 KW	208/1	20	30	GOODMAN	GSX14018	208/1	14	20	14.0	
A UNITS	GOODMAN	2	AWST2408	750		0.5	0.2	17.2	22.8	5.6 KW	208/1	31	40	GOODMAN	GSX14024	208/1	14	25	14.0	
B AND C UNITS	GOODMAN	2 1/2	AWST3010	950		0.5	0.33	21	28.8	7.5 KW	208/1	39	50	GOODMAN	GSX14030	208/1	15	30	14.0	
COMMON AREAS																				
AHU - H1 THRU H6	GOODMAN	1 1/2	ARUF-24C14	600	80	0.5	0.2	12.4	17.4	5.6 KW	208/1	31	40	GOODMAN	GSX14018	208/1	15	30.0	14.0	
AHU - CL3	GOODMAN	2.5	ARUF31B14	1000-1100	130	0.4	0.33	21.0	28.2	7.2 KW	208/1	37	50	GOODMAN	GSX14030	13.8	25	14.0	14.0	
AHU - CL1, CL2, CL5	GOODMAN	4	ARUF47D14	1400-1600	250	0.4	0.5	32	45	10.8 KW	208/1	55	70	GOODMAN	GSX14048	21.2	45	14.0	14.0	
AHU - CL4	GOODMAN	5	ARUF61D14	1750-1980	250	0.4	0.75	40	57	14.4 KW	208/1	73	90	GOODMAN	GSX14-060	208/1	26.3	50	14.0	
DSS STAIR	FUJITSU	2	ASU24RLF	700	0	0			22	25 MBH	208/1	W/HP		FUJITSU	AOU24RXLFW1	208-240/1	15.5	25	19	WALL STAT, LOW AMB

COOLING EAT = 80/67/95
PROVIDE EACH UNIT WITH FILTER AND RACK, SINGLE POINT BREAKER, T'STAT. SEE SPECS.
UNLESS OTHERWISE SHOWN, TSTAT IS INSTALLED BEHIND RETURN AIR GRILL.

DRAIN SCHEDULE								
MARK	APPLICATION	MFG	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SHAPE	ACCESSORIES
APT FD	FLOOR	SIoux CHIEF	842	ABS/PVC	3"	PVC	6" SQUARE	
APT FD	FLOOR - WOOD	SIoux CHIEF	822	ABS/PVC	3"	PVC	6" SQUARE	2
FD-1	FLOOR	ZURN	ZN-415S	COATED CAST IRON	3"	NICKEL BRONZE	6" SQUARE	1, 2
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE	1, 2, 3, 4

- NOTES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD DECK FLOOR
3 - INTERNAL STRAINER
4 - WITH TRAP GUARD

EXHAUST FAN SCHEDULE									
MARK	MFG	MODEL	CFM	ESP	FAN HP	ELECTRICAL			CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCP	
APT EF	BROAN	LP50100DC	80	0.1	Fr.	120/1	1	15	(3) #12 WALL 1, 2
CL2, CL3, CL4, CL7, CL8	GREENHECK	SP-A110	75	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL5, CL9	GREENHECK	SP-A190	150	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL6	GREENHECK	SP-A200	210	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL1	GREENHECK	SP-A390	300	0.25	Fr.	120/1	3	15	(3) #12 ceiling 1, 2

- NOTES:
1-CEILING GRILLE
2-BD DAMPER, DS, SPEED CONTROLLER, WALL/ROOF CAP

AIR TERMINAL DEVICE SCHEDULE						
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A140, A190	WHITE	YES	GYP BD	WITH CRD
B	AIR MATE	170	WHITE	NO	GYP BD	
C	AIR MATE	240 VO	WHITE	YES	GYP BD	
D	PRICE	620DAL/N/L/A/B12	WHITE	YES	GYP BD	WITH CRD
E	PRICE	635DAL/N/L/A/B12	WHITE	YES	GYP BD	
E1	PRICE	635/L/A/B12	WHITE	YES	GYP BD	WITH CRD

WATER HEATER SCHEDULE										
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/ AMPS	INPUT	EFFICIENCY/ PF	GALLONS STORAGE	GPH RECOVERY @ 80° RISE	FLUE TYPE	NOTES
CL1, CL2	A.O. SMITH	ENL-40	ELEC	208/1/22	4.5 KW	0.95	38	23	N/A	1, 2, 3
1/1	A.O. SMITH	EJC-10	ELEC	120/1/13	1.6 KW	N/A	9	8	N/A	1
TYP APT	A.O. SMITH	ENL-40	ELEC	208/1/22	4.5 KW	0.95	38	23	N/A	1, 2

- NOTES
1- PROVIDE ASME P&T VALVE
2- PROVIDE EXPANSION TANK
3- PROVIDE ANODE RODS, DRAIN VALVE

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MFGR	MODEL	KW	MBH	CFM	ELECTRICAL				CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCP	WIRING	
EUH - A	BERKO	FRC-4024F	3.0	10.2	100	240-1	14.4	20	(3) #12	WALL, 2, 4, 5
EUH-B	BERKO	HUHAA-320	3.0	10.2	100	240-1	14.4	20	(3) #12	WALL, 2, 4, 5
NOTES:	1-SURFACE MOUNTING SLEEVE/BOX 2-SEMI-RECESSED 3-FULLY RECESSED 4-DISCONNECT 5-INTEGRAL T'STAT									

- NOTES:
1-SURFACE MOUNTING SLEEVE/BOX
2-SEMI-RECESSED
3-FULLY RECESSED
4-DISCONNECT
5-INTEGRAL T'STAT

LS&A

Latimer Sommers & Associates P.A.
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204073

DATE:
3/24/2023
JOB NO.
696521
DRAWN BY:
Author
SHEET NO.

PERMIT

MP1.04

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LANDSCAPE
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ENERGY SERVICES

ARCHITECTSSM
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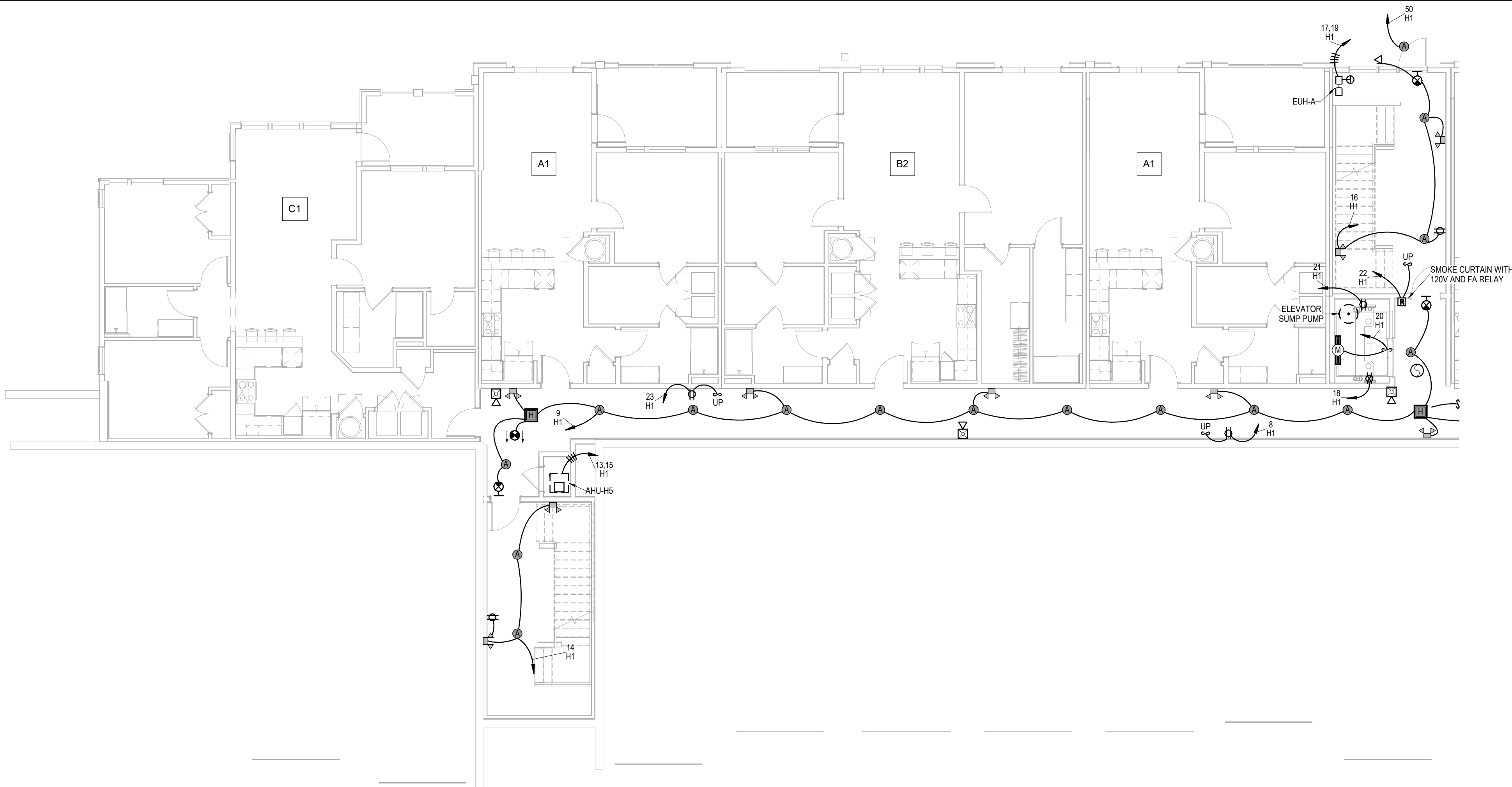
3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

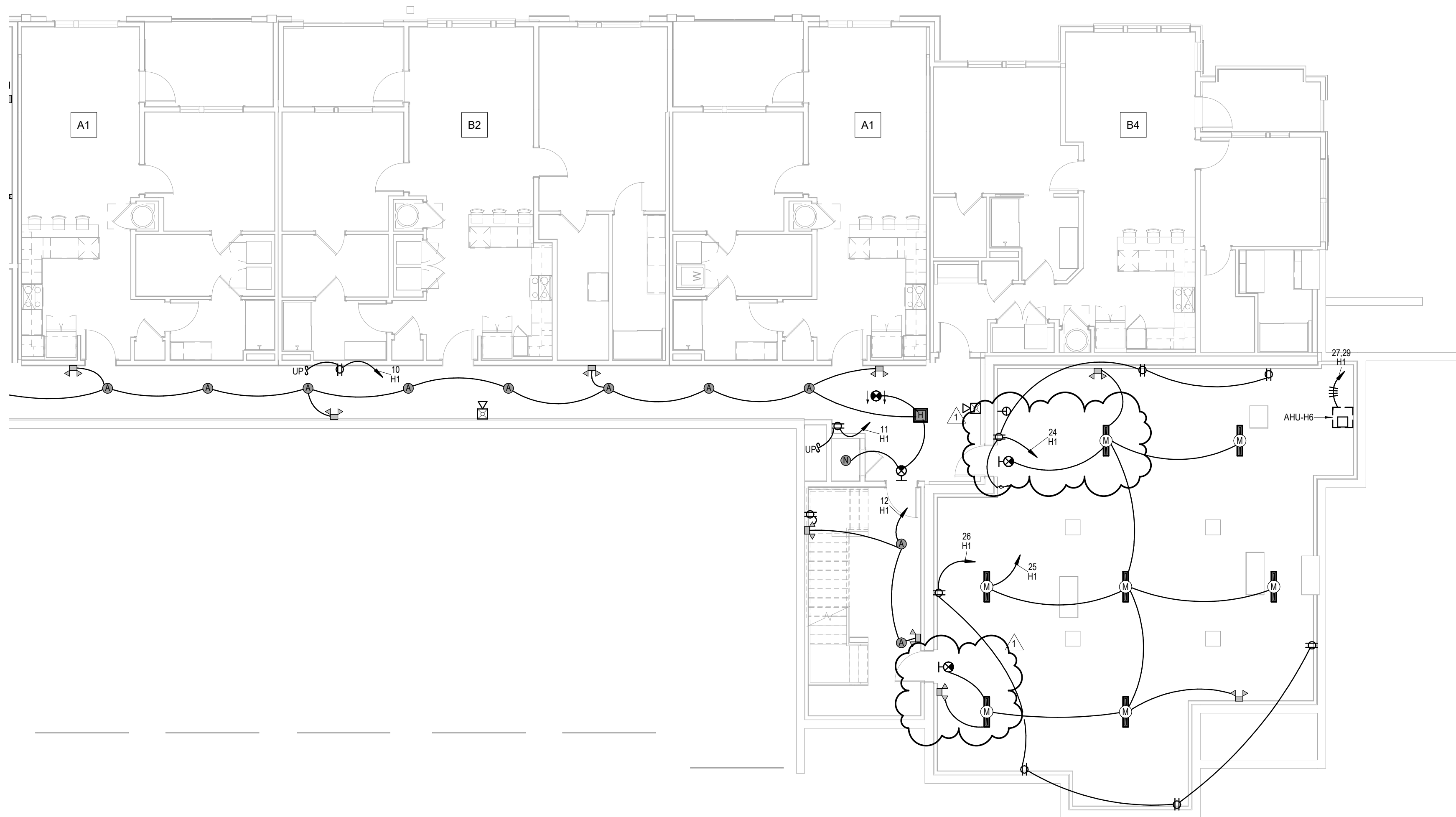


DRAWING RELEASE LOG

REVISIONS:



1 LOWER LEVEL BUILDING PLAN - A
ELECTRICAL
1/8" = 1'-0"



2 LOWER LEVEL BUILDING PLAN - B
ELECTRICAL
1/8" = 1'-0"

- NOTES:
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 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
 - REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS, SMOKE DETECTORS AND OTHER ITEMS NEEDING FIRE ALARM CONNECTION.
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4-28-2023

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

△ REVISIONS:
1 4-28-2023 Addendum #2

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LSA PROJECT NO. 2204073

PERMIT

DATE:
3/24/2023
JOB NO.
696521
DRAWN BY:
Author
SHEET NO.

E1.10



-
- A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the name "RICHARD R. BEARDMORE" is printed. Below the name, it says "NUMBER 000000000" and "EXPIRATION DATE 08/2009". A handwritten signature is scrawled across the center of the seal.
- 3-24-23

**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO**

DRAWING RELEASE LOG

△ REVISIONS:

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& Associates P.A.
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LSA PROJECT NO. 2204073

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E1.11

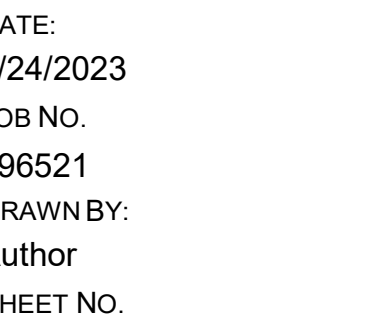


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- 3-24-23

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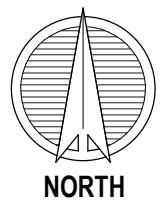
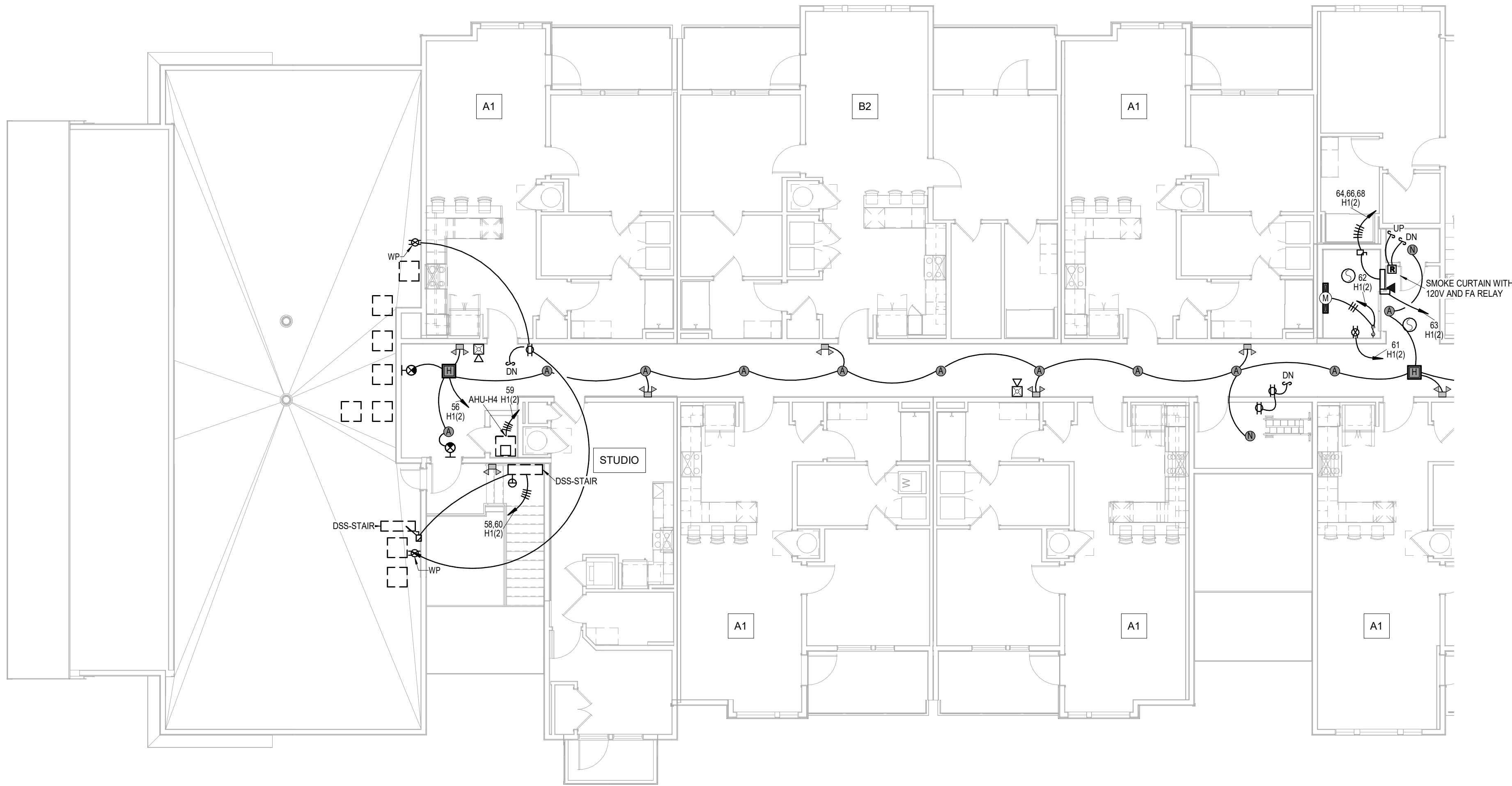
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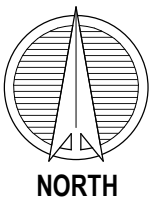
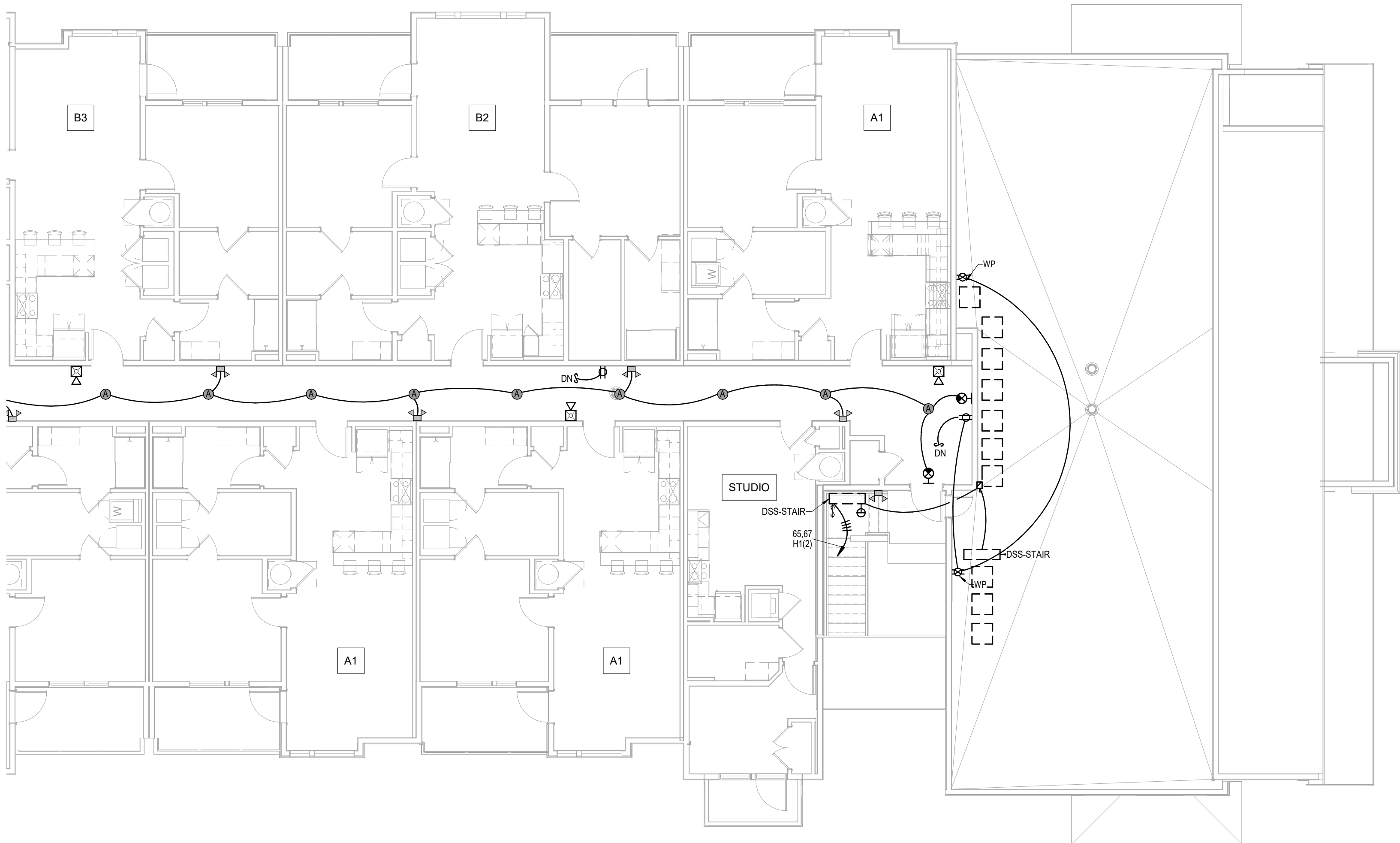


PERMIT

E1.12



1 4TH FLOOR BUILDING PLAN - A
ELECTRICAL
1/8" = 1'-0"



2 4TH FLOOR BUILDING PLAN - B
ELECTRICAL
1/8" = 1'-0"

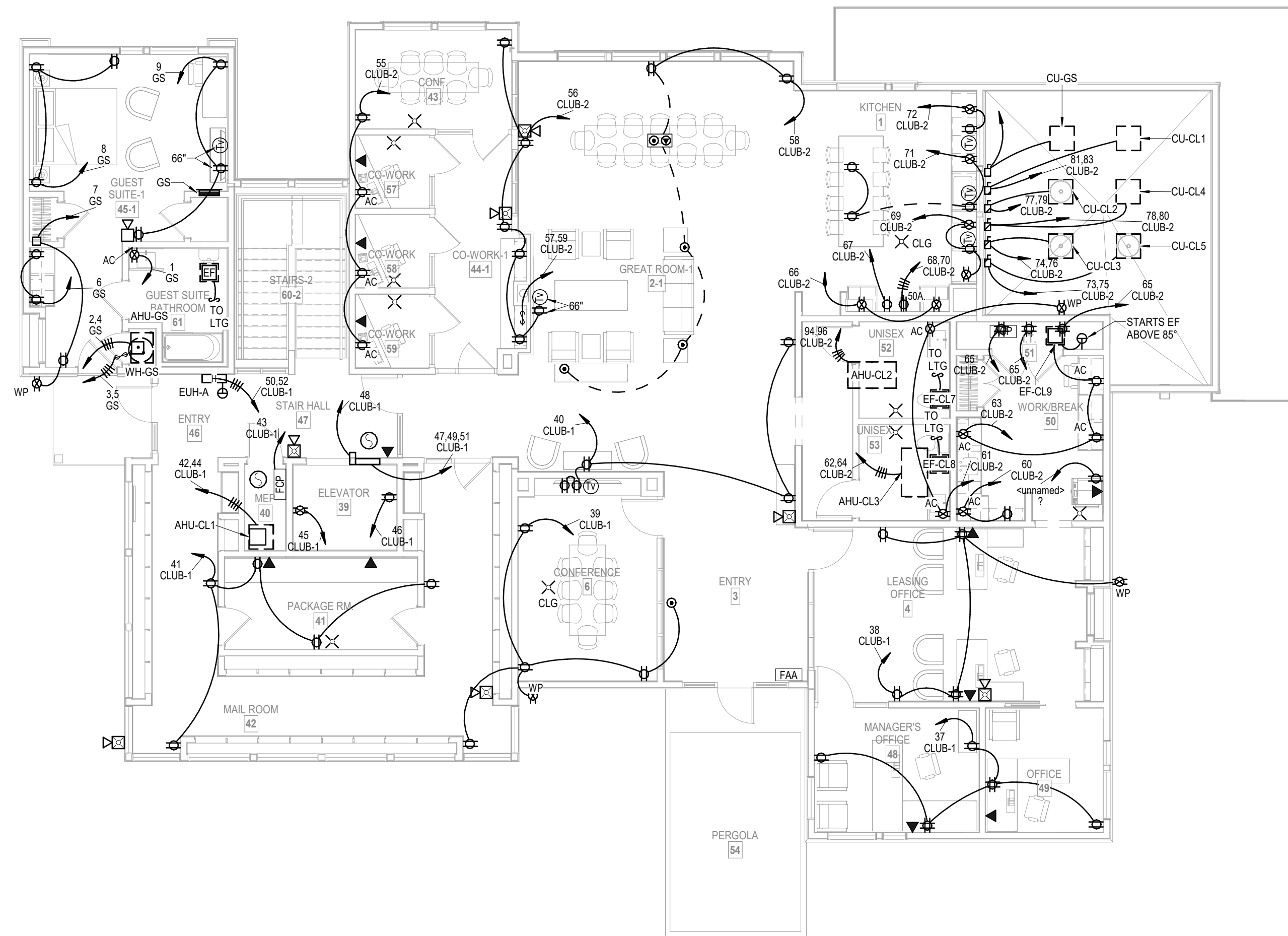
- NOTES:**
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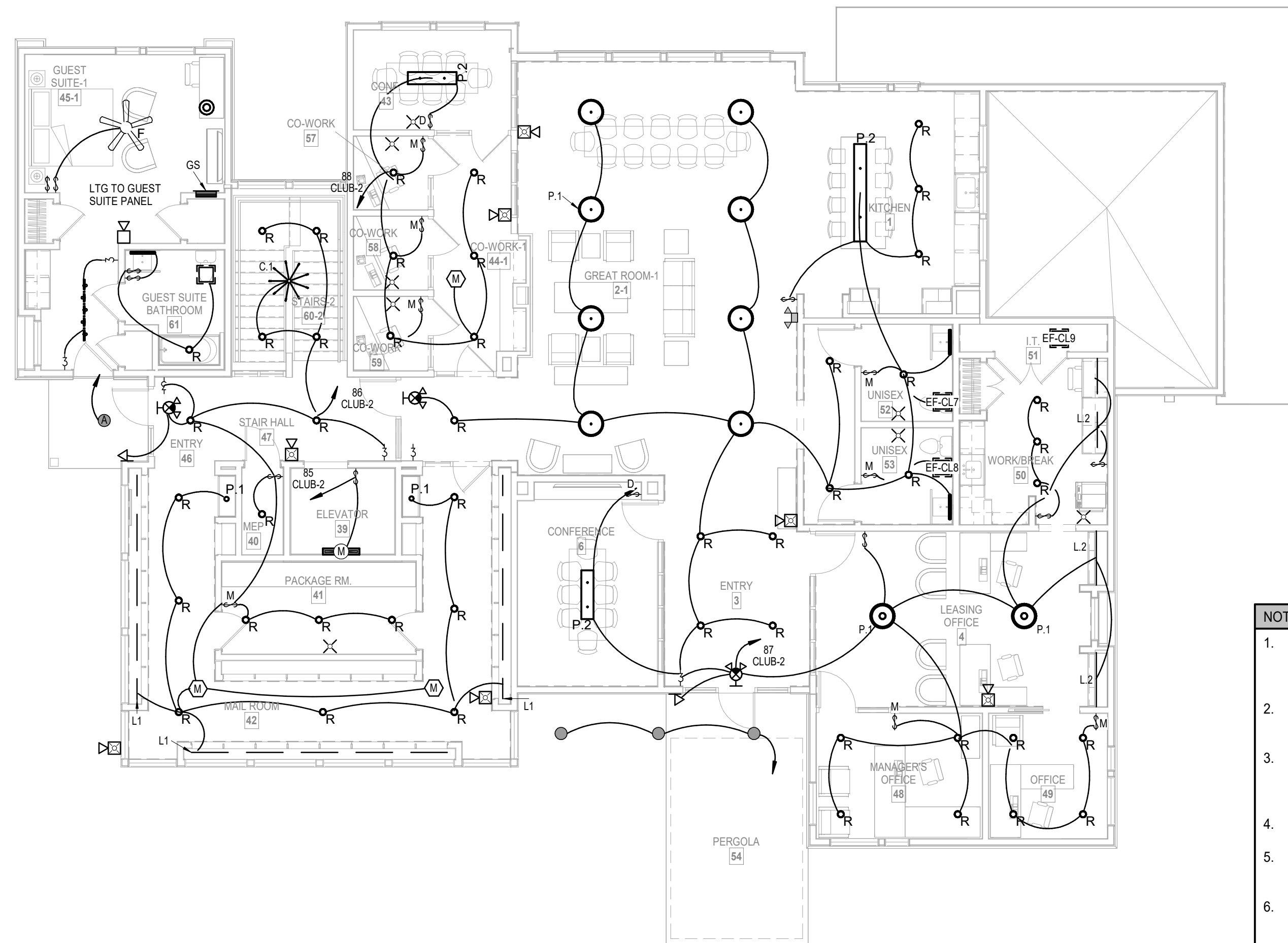
NORTH

SHEET NO.

SHEET NO.

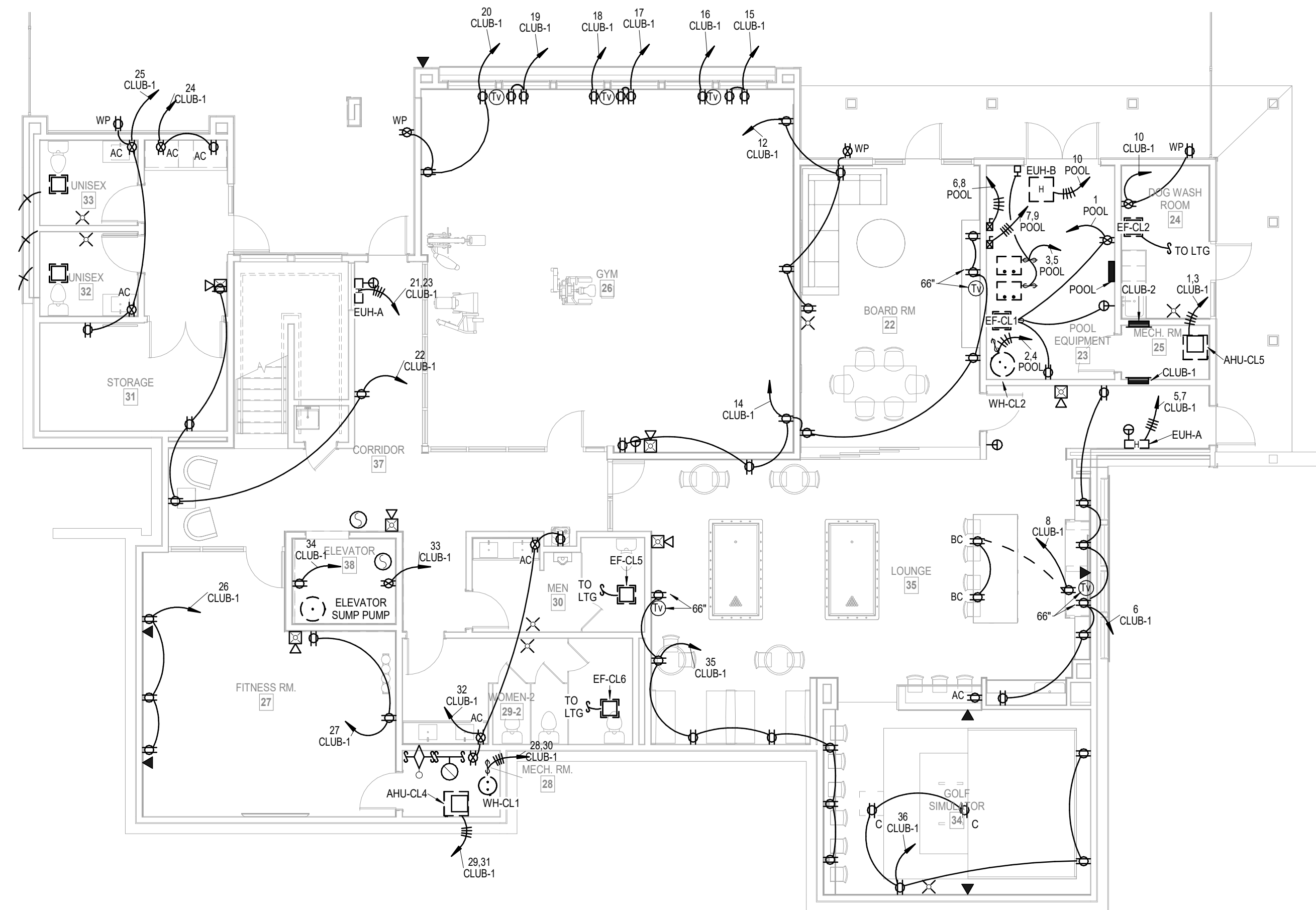


1 1ST FLOOR CLUBHOUSE PLAN
POWER
1/8" = 1'-0"

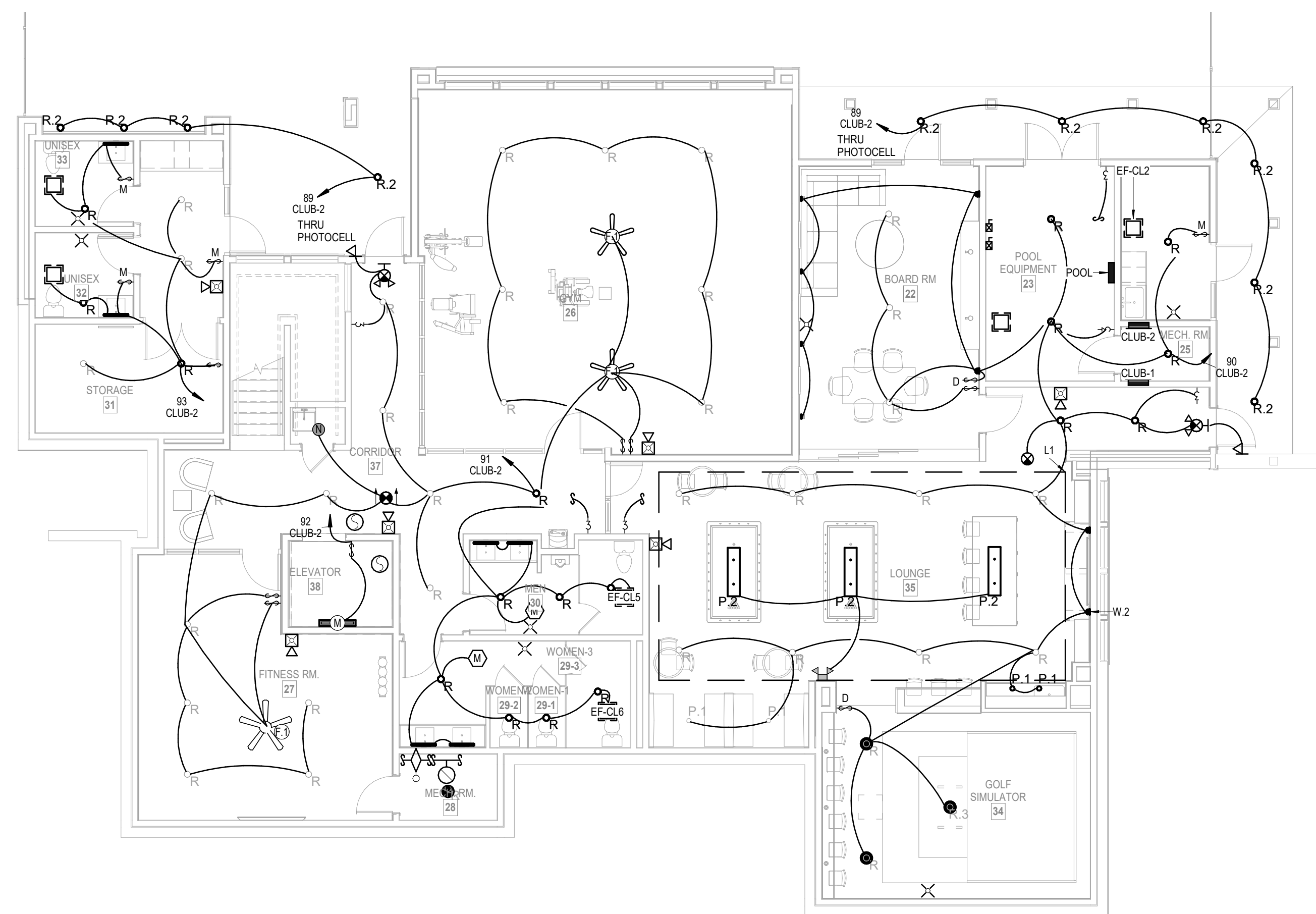


3 1ST FLOOR CLUBHOUSE PLAN
LIGHTING
1/8" = 1'-0"

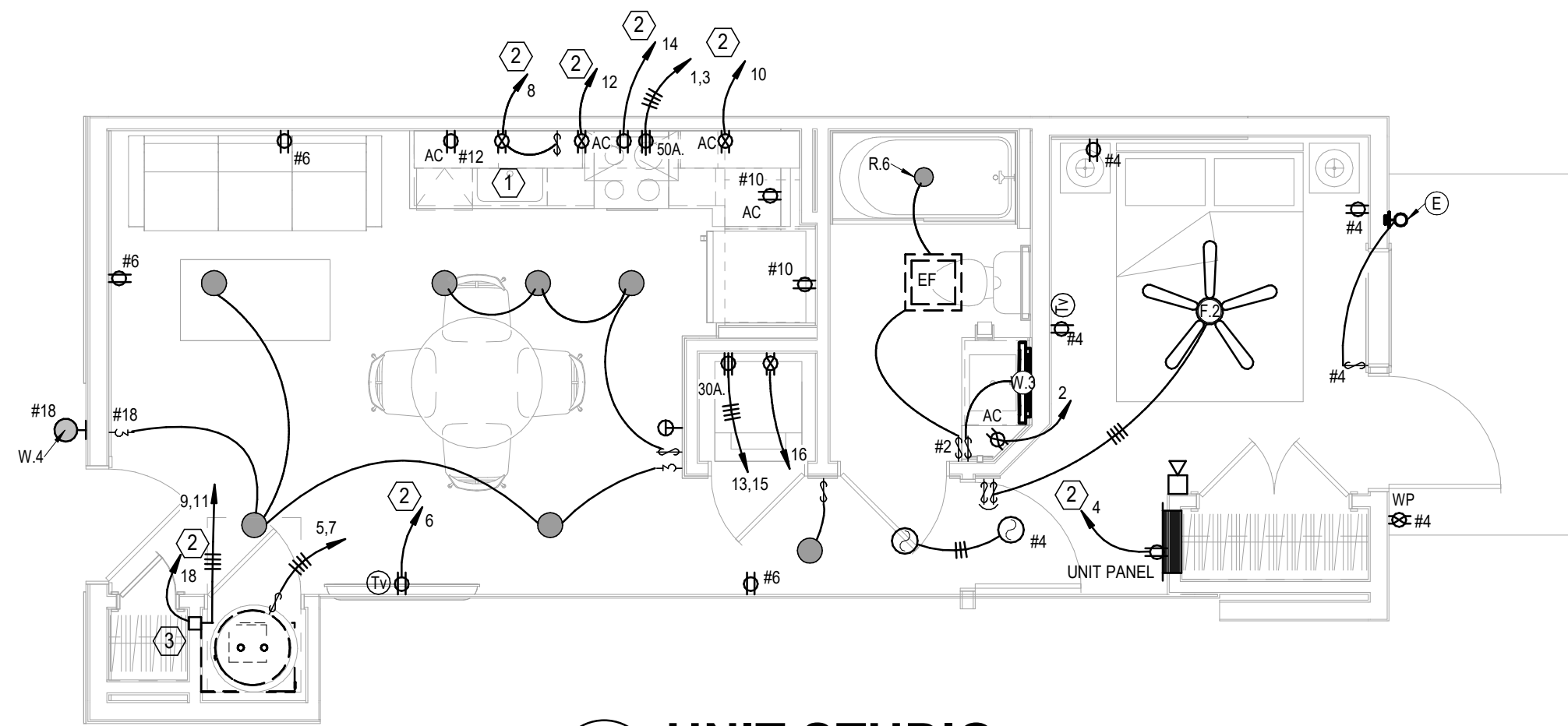
- | NOTES: | |
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| 2. | SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM. |
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| 9. | SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY. |



2 LOWER LEVEL CLUBHOUSE

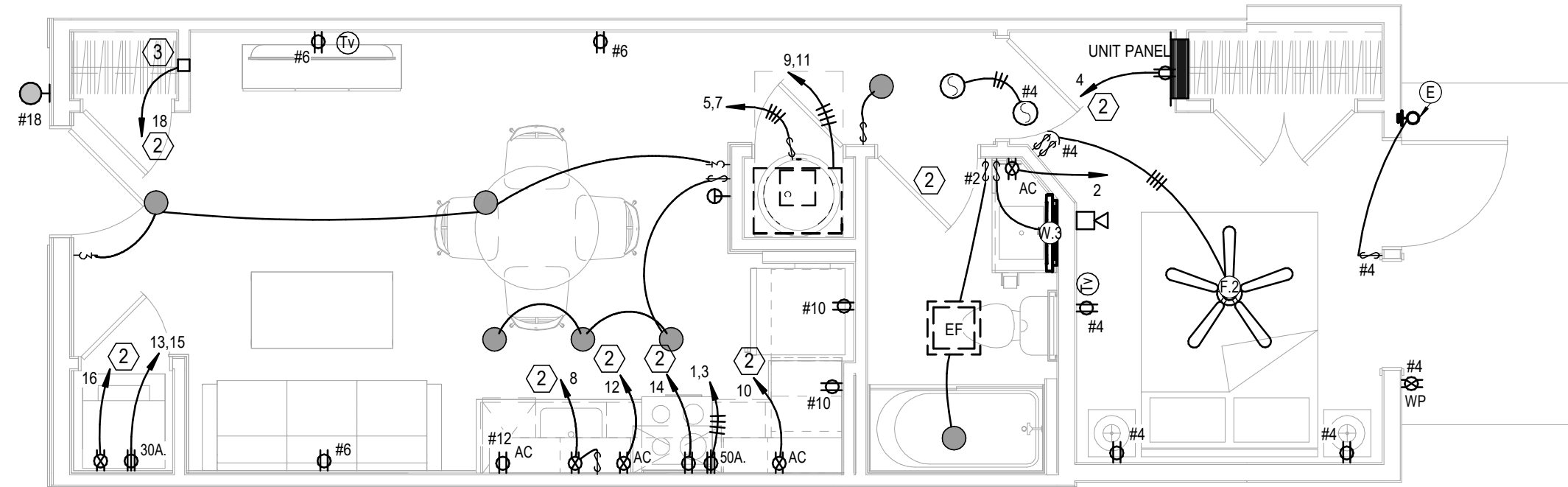


4 LOWER LEVEL CLUBHOUSE



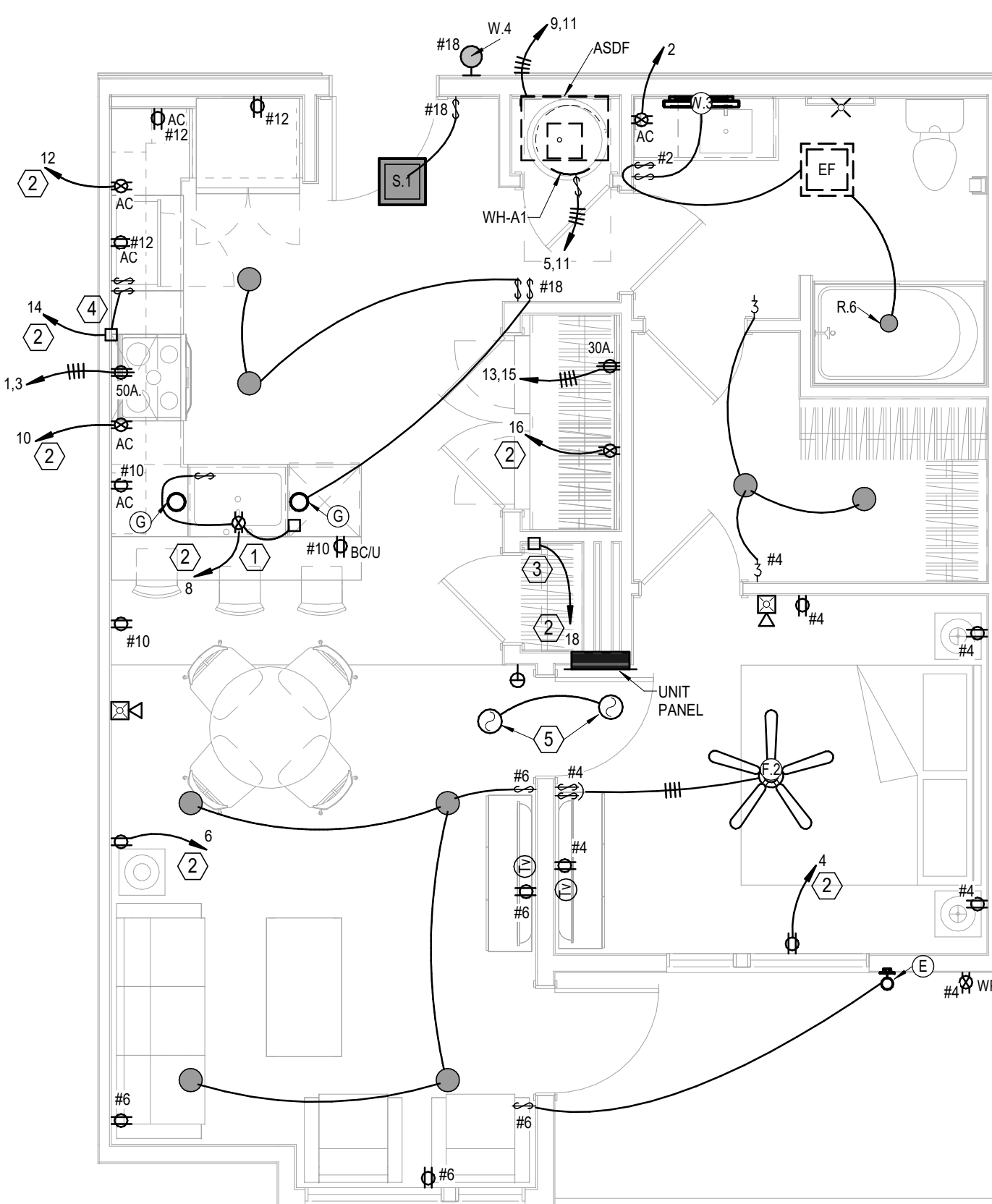
1 UNIT STUDIO

ELECTRICAL
1/4" = 1'-0"

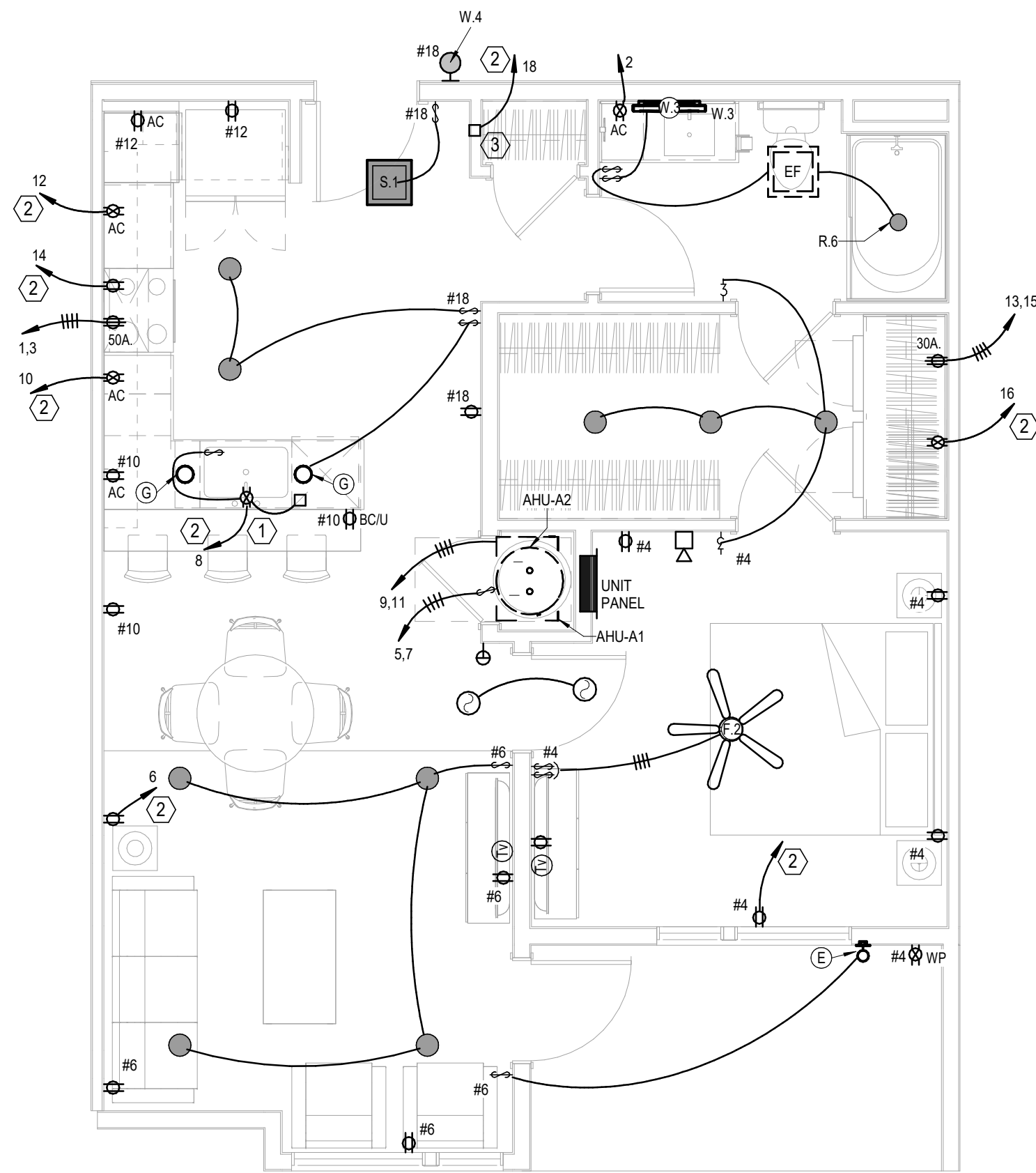


2 UNIT STUDIO ALT

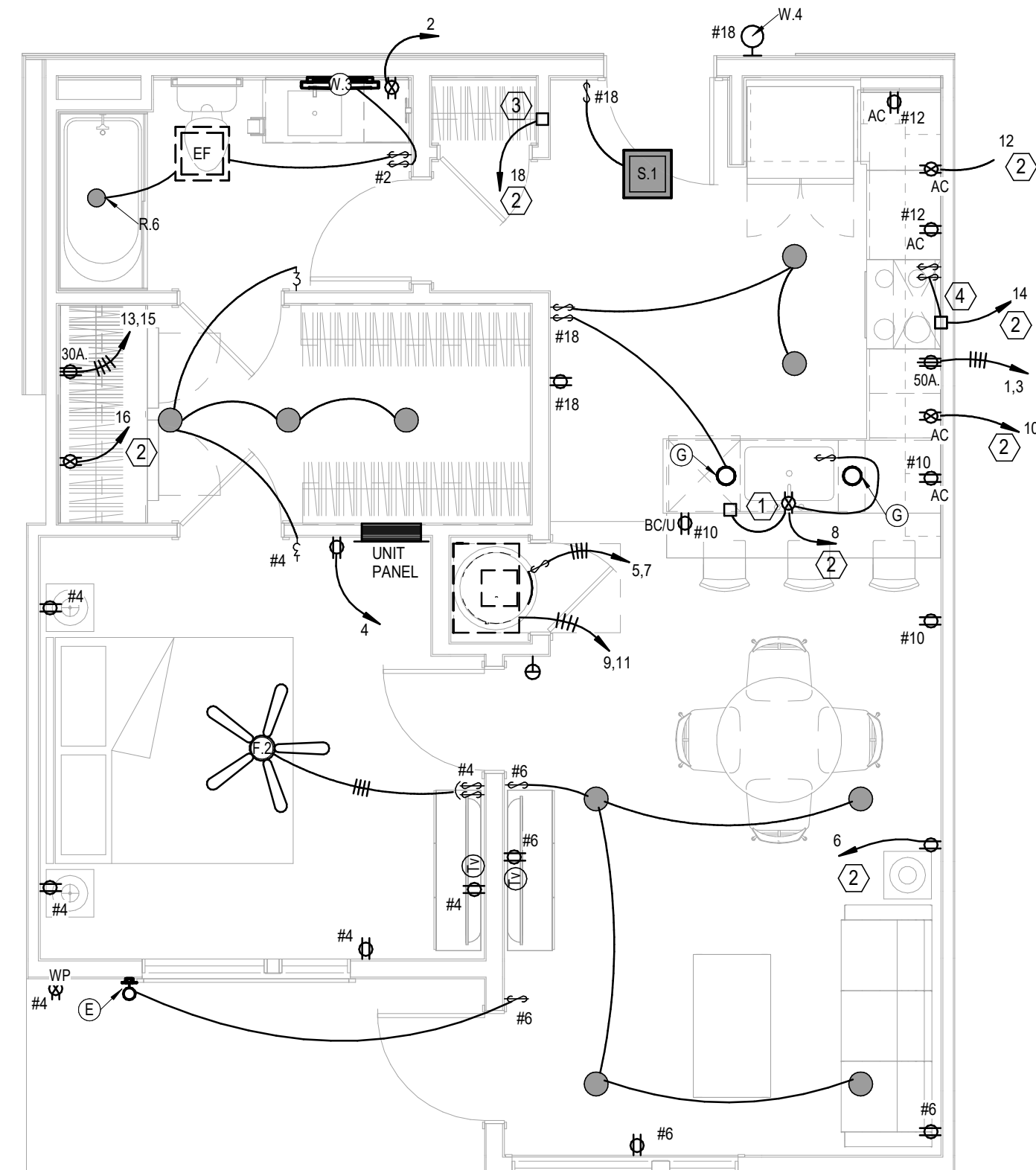
ELECTRICAL
1/4" = 1'-0"



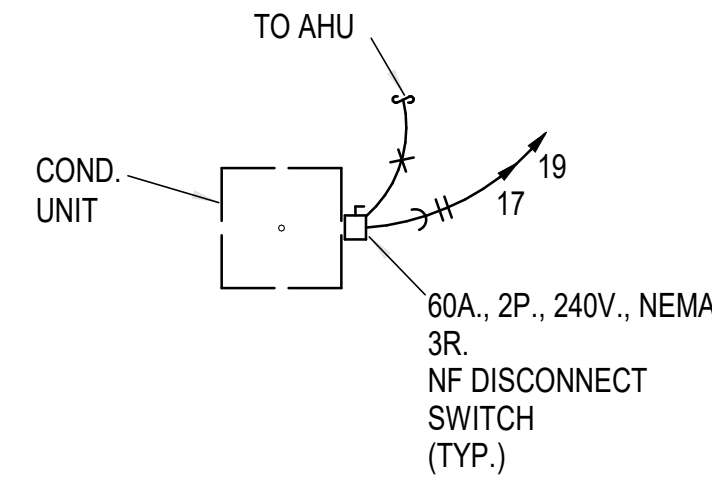
4 **UNIT A1 - TYPE A**
ELECTRICAL
1/4" = 1'-0"



3 **UNIT A1**
ELECTRICAL
1/4" = 1'-0"



5 **UNIT A1 - ALT**
ELECTRICAL
1/4" = 1'-0"



6 TYPICAL COND. UNIT DETAIL

- | NOTES: | |
|--------|--|
| 1. | HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF, VERIFY WITH ARCHITECT. |
| 2. | CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX. |
| 3. | GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT. INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS. |
| 4. | THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU. |
| 5. | ⊙ = 120V. SMOKE ALARM WITH BATTERY BACK - UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER. |
| 7. | ALL ARC - FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES. |
| 8. | PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS. |
| 9. | FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY. |
| 10. | ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE. |
| 11. | ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE. |
| 12. | ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MM RECEPTACLES AT 66" (VERIFY). |
| 13. | SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS. |
| 14. | BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT. |
| 15. | SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY. |
| 16. | ALL UNIT CAN LIGHTS ARE TYPE R.1 UNLESS NOTED OTHERWISE. |
| 17. | SEE ARCH UNIT PLANS FOR DIMENSIONED REFLECTED CEILING PLANS. |

- | LEGEND: | |
|---------|--|
| ① | SWITCHED RECEPTACLE FOR GARBAGE DISPOSER.
CONTINUE CIRCUIT TO DISHWASHER. |
| ② | PROVIDE ARC-FAULT BREAKER IN PANEL. |
| ③ | TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE
DETAIL. |
| ④ | SWITCHES FOR OVERHEAD MW FAN & LIGHT. |
| ⑤ | SMOKE ALARM TO HAVE STROBES. |

A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO


DRAWING RELEASE LOG

△ REVISIONS:

LS&A
Latimer Sommers
& Associates P.A.
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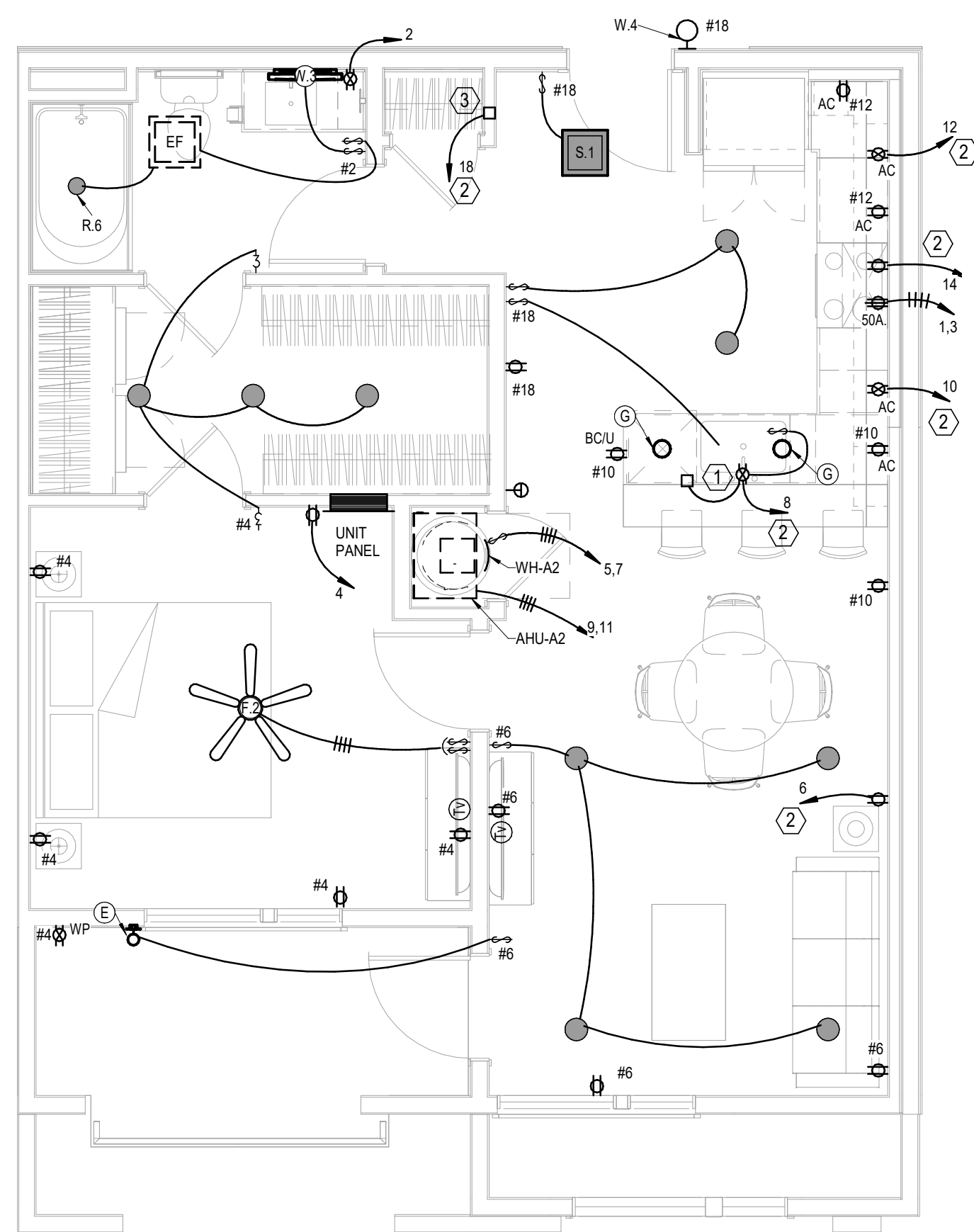
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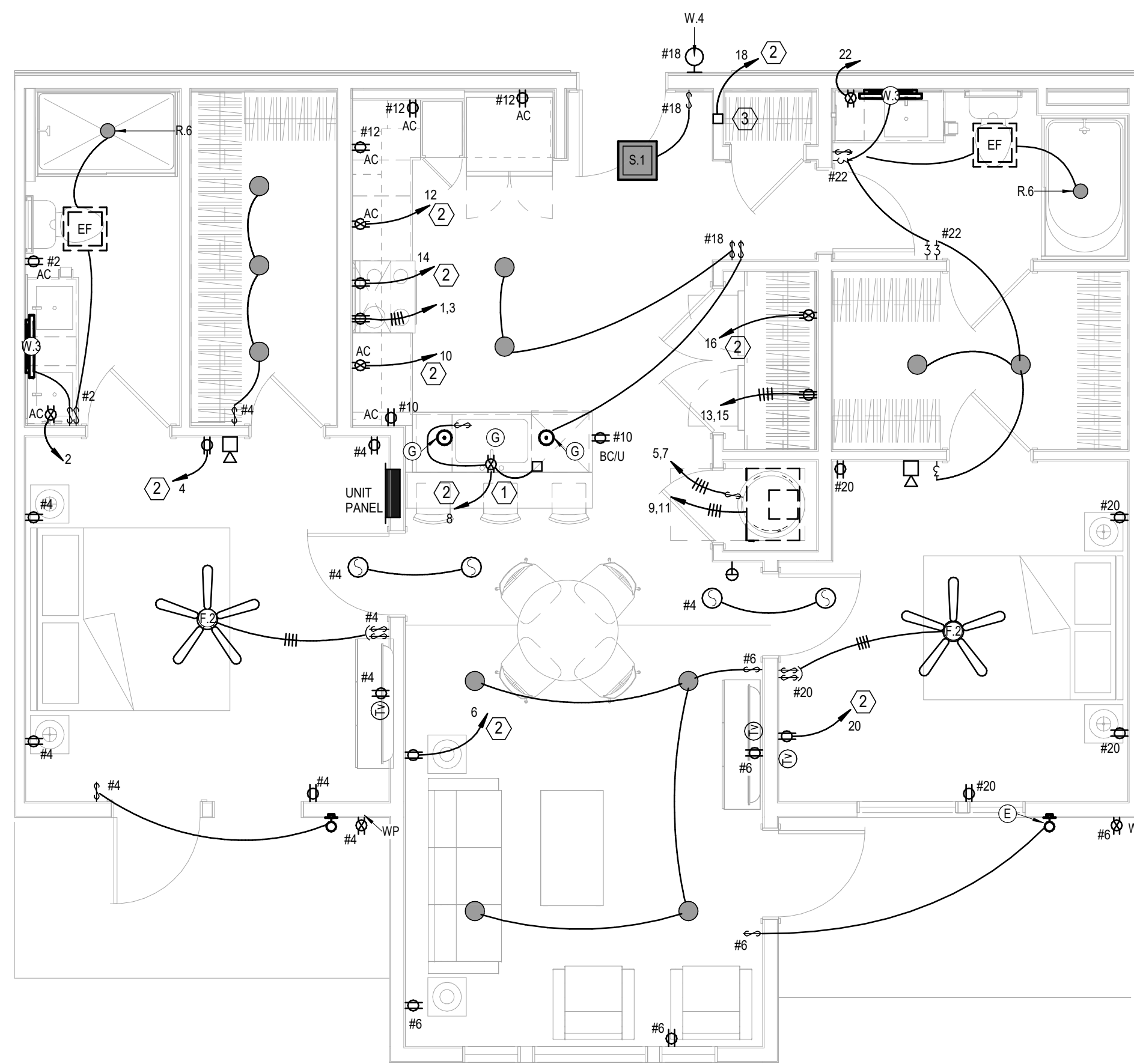
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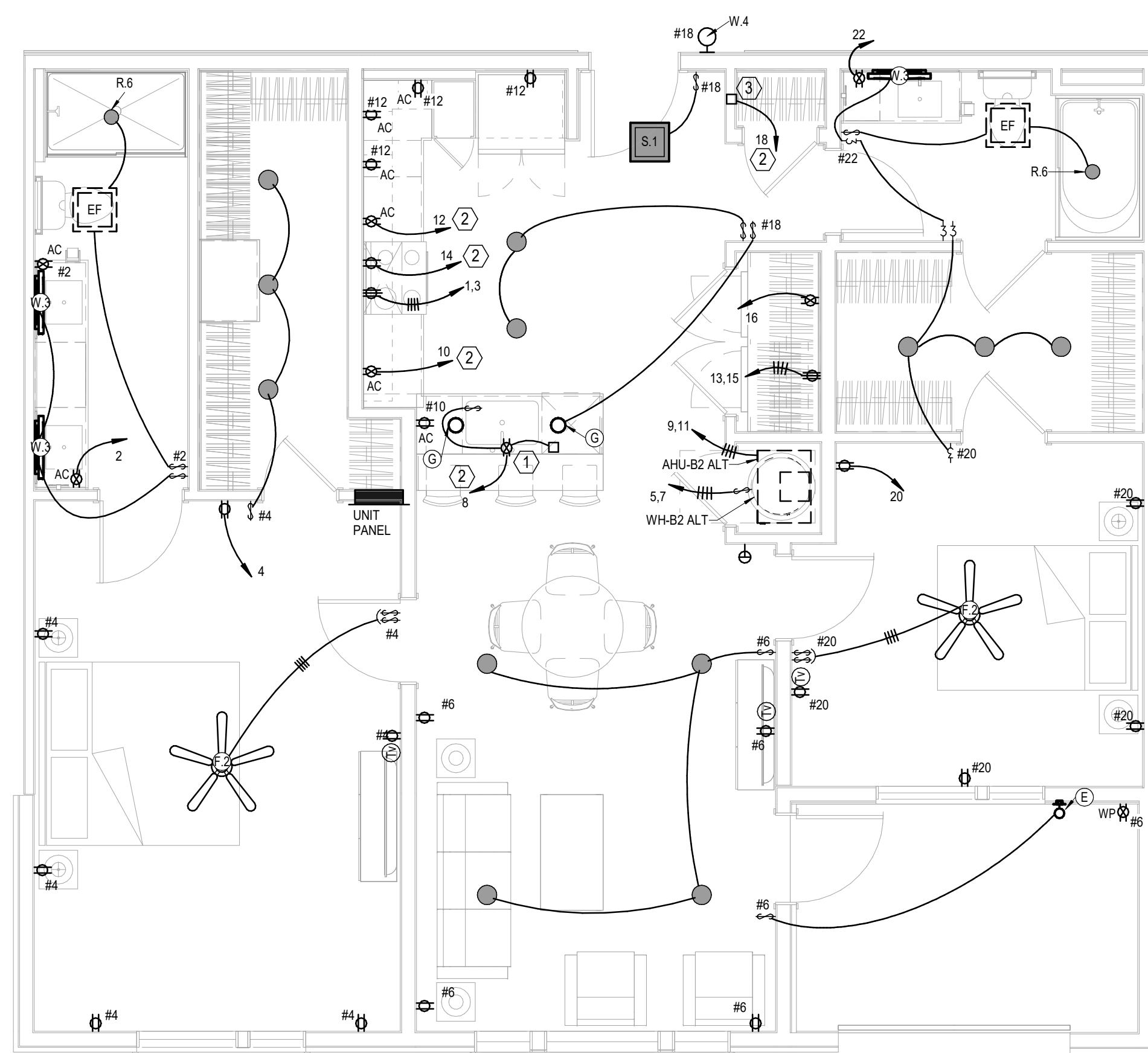
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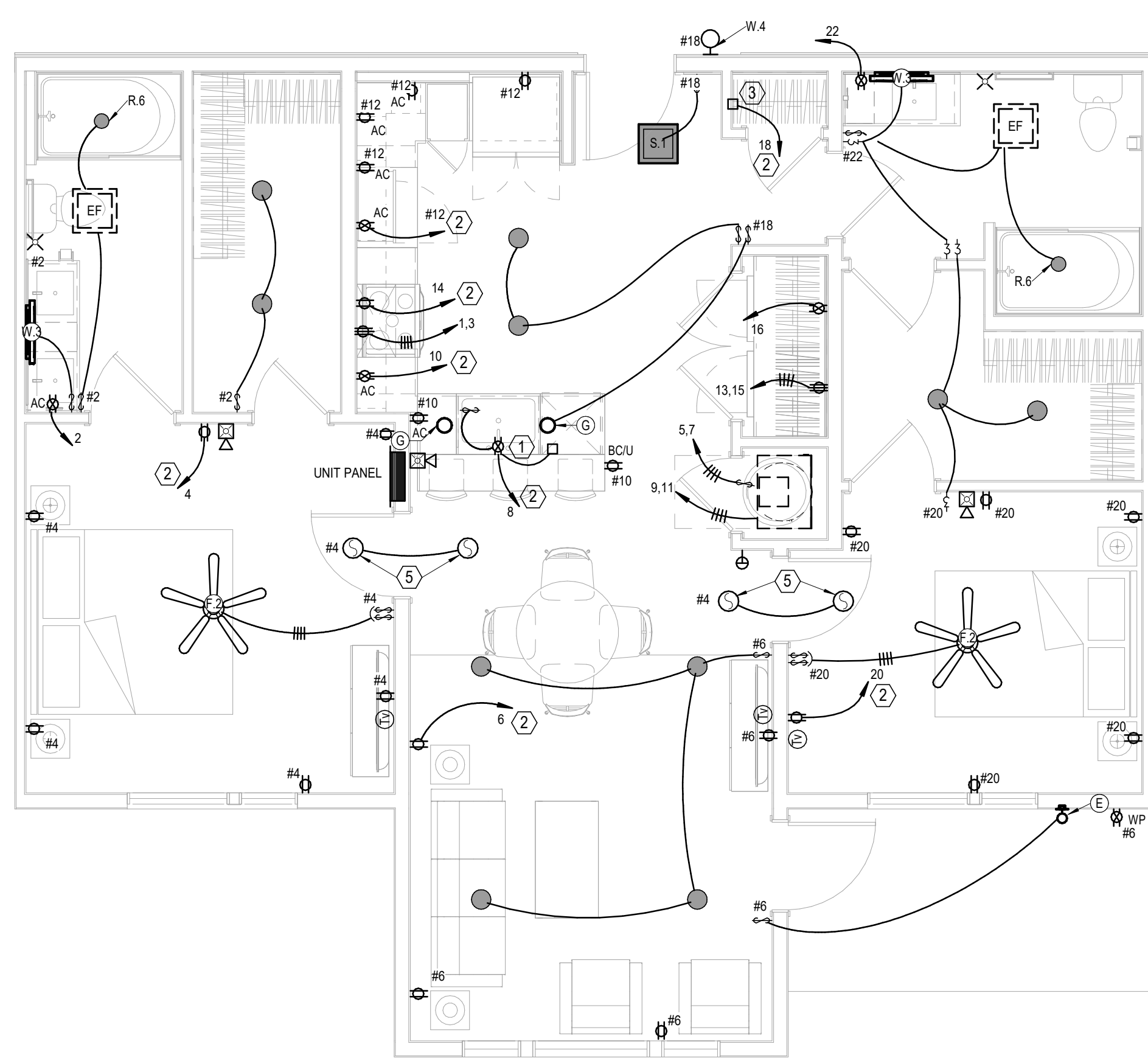
1 **UNIT A2**
ELECTRICAL
1/4" = 1'-0"



2 **UNIT B2**
ELECTRICAL
1/4" = 1'-0"



3 UNIT B2 - ALT 1&2
ELECTRICAL
1/4" = 1'-0"



4 UNIT B2 - TYPE A
ELECTRICAL
1/4" = 1'-0"

- | NOTES: | |
|--------|---|
| 1. | HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF. VERIFY WITH ARCHITECT. |
| 2. | CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX. |
| 3. | GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT. INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS. |
| 4. | THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU. |
| 6. | ⊗ = 120V. SMOKE ALARM WITH BATTERY BACK - UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER. |
| 7. | ALL ARC - FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES. |
| 8. | PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED VOLTAGE MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 18 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 2" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS. |
| 9. | FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY. |
| 10. | ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE. |
| 11. | ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE. |
| 12. | ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY). |
| 13. | SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS. |
| 14. | BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT. |
| 15. | SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY. |
| 16. | ALL UNIT CAN LIGHTS ARE TYPE R.1 UNLESS NOTED OTHERWISE. |
| 17. | SEE ARCH UNIT PLANS FOR DIMENSIONED REFLECTED CEILING PLANS. |

- | LEGEND: | |
|---------|---|
| ① | SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. |
| ② | PROVIDE ARC-FAULT BREAKER IN PANEL. |
| ③ | TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL. |
| ④ | SWITCHES FOR OVERHEAD MW FAN & LIGHT. |

A NEW DEVELOPMENT:

**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO

 DRAWING RELEASE LOG

△ REVISIONS

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ARCHD 24", 36"

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NSPJ ARCHITECTS ©

1

UNIT B3

ELECTRICAL

1/4" = 1'-0"

2

UNIT B4

ELECTRICAL

1/4" = 1'-0"

3

UNIT C1

ELECTRICAL

1/4" = 1'-0"

4

UNIT C1 - TYPE A

ELECTRICAL

1/4" = 1'-0"

NOTES:

1. HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF. VERIFY WITH ARCHITECT.

2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.

3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.

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7. ALL ARC - FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.

8. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.

9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.

10. ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE.

11. ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.

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13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.

14. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

15. SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY.

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LEGEND:

① SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.

② PROVIDE ARC-FAULT BREAKER IN PANEL.

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④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.

⑤ SMOKE ALARM TO HAVE STROBES.

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PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI

BEARDMORE

PROFESSIONAL ENGINEER

3-24-23

A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL

50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

REVISIONS:

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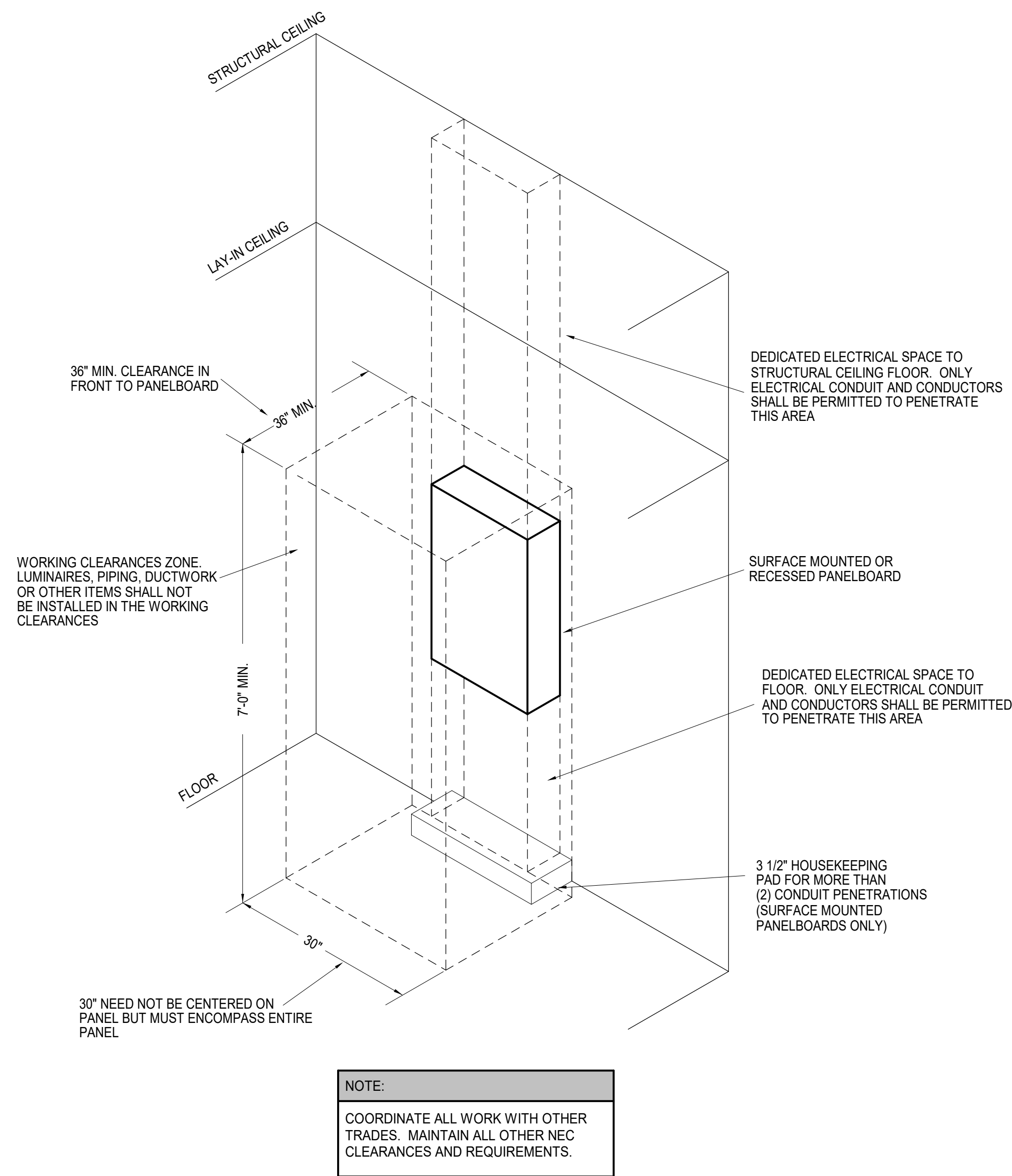
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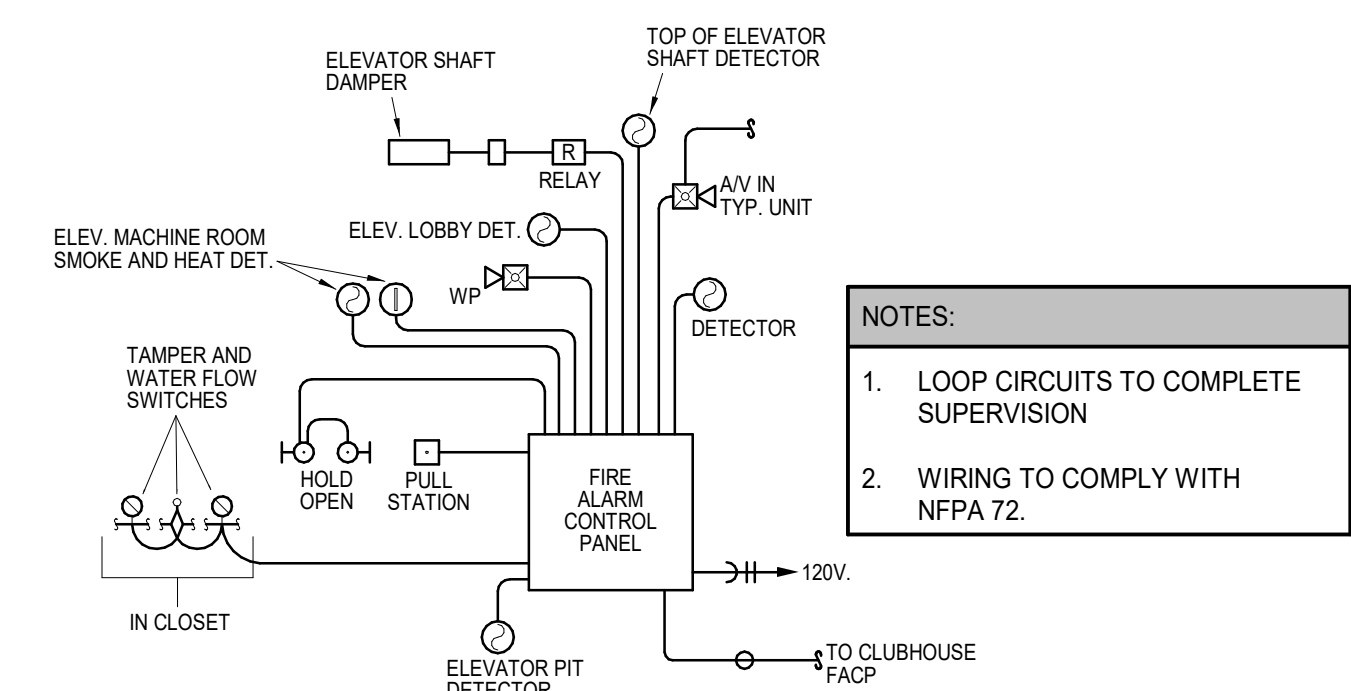
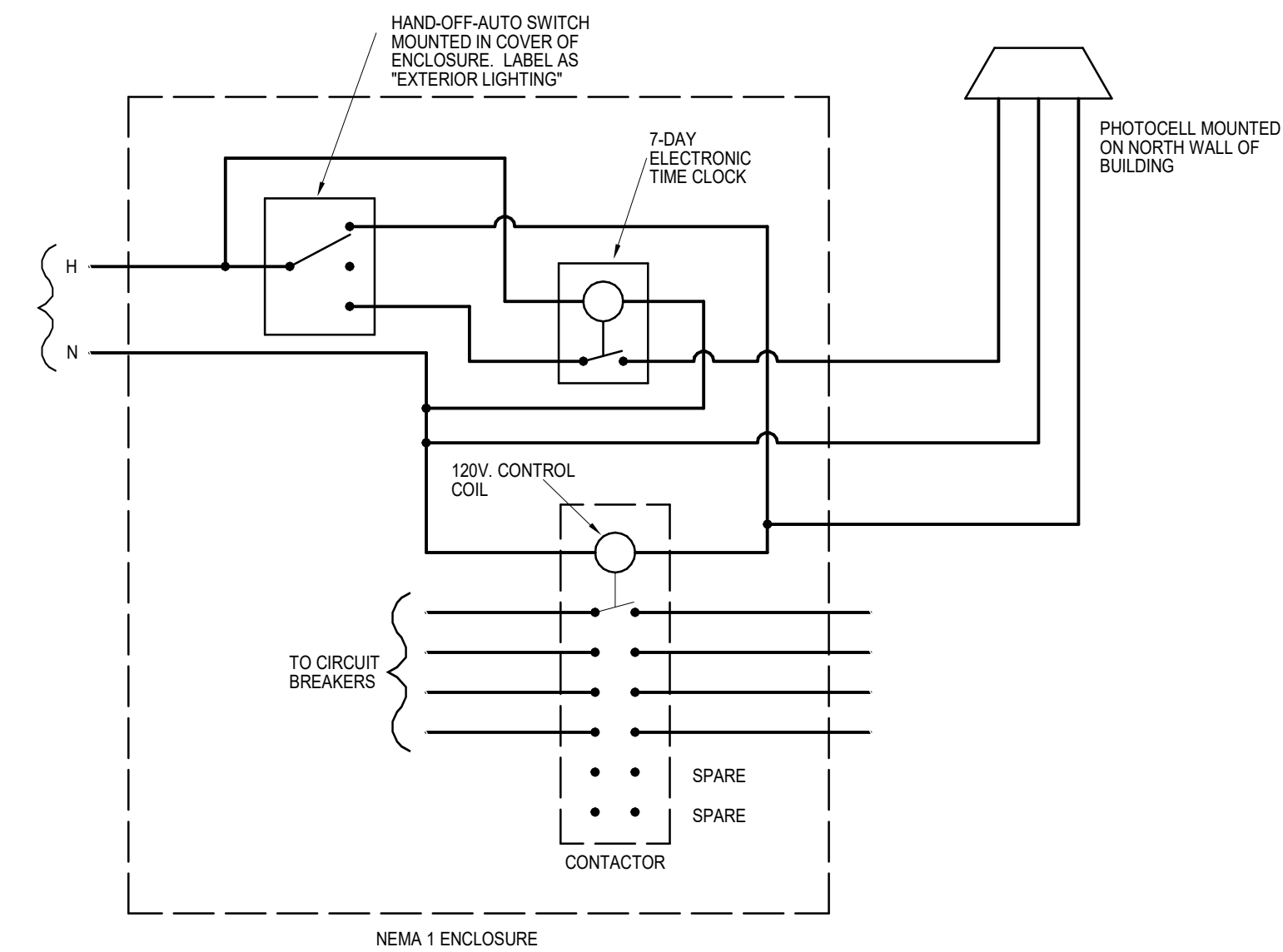
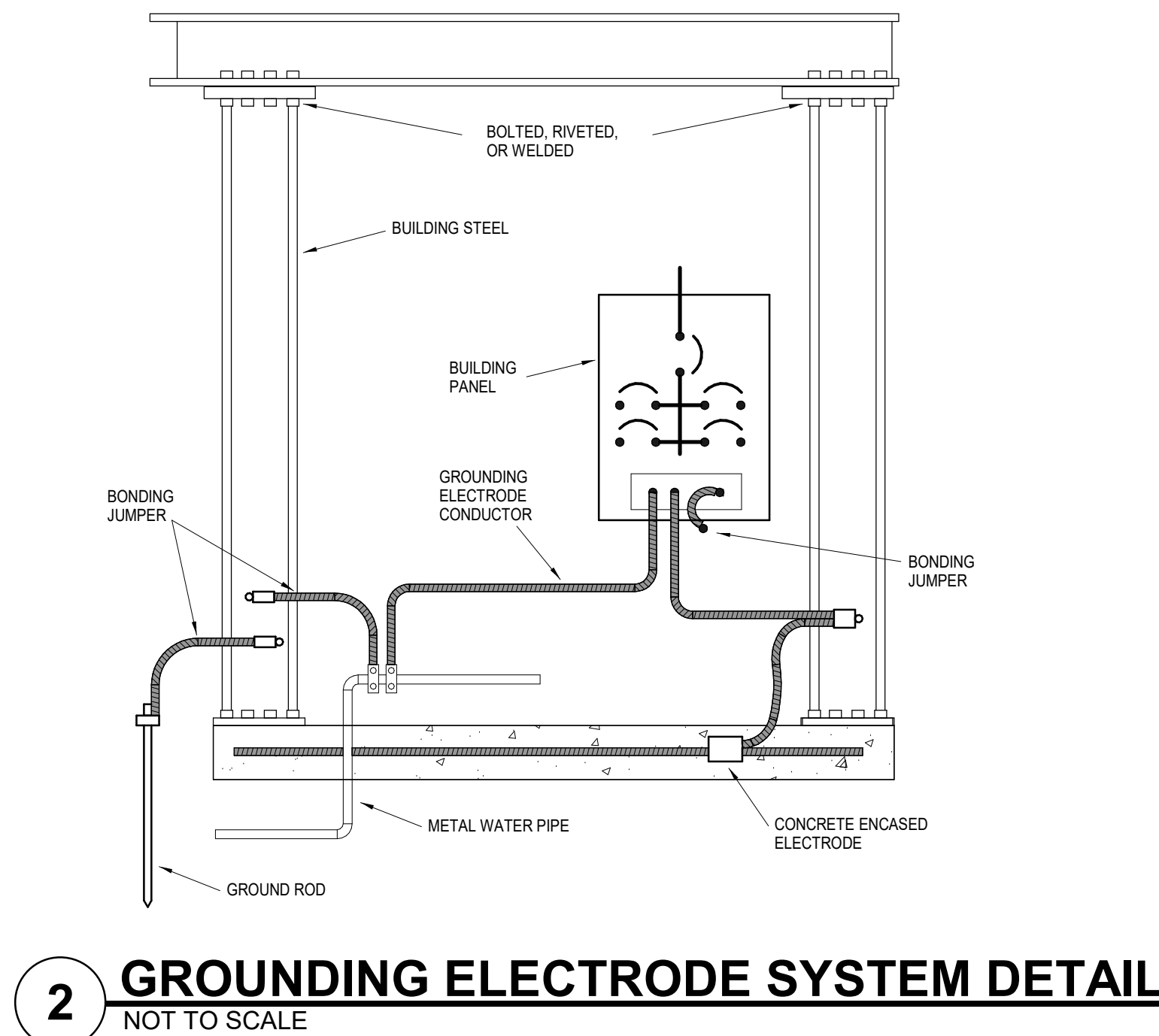
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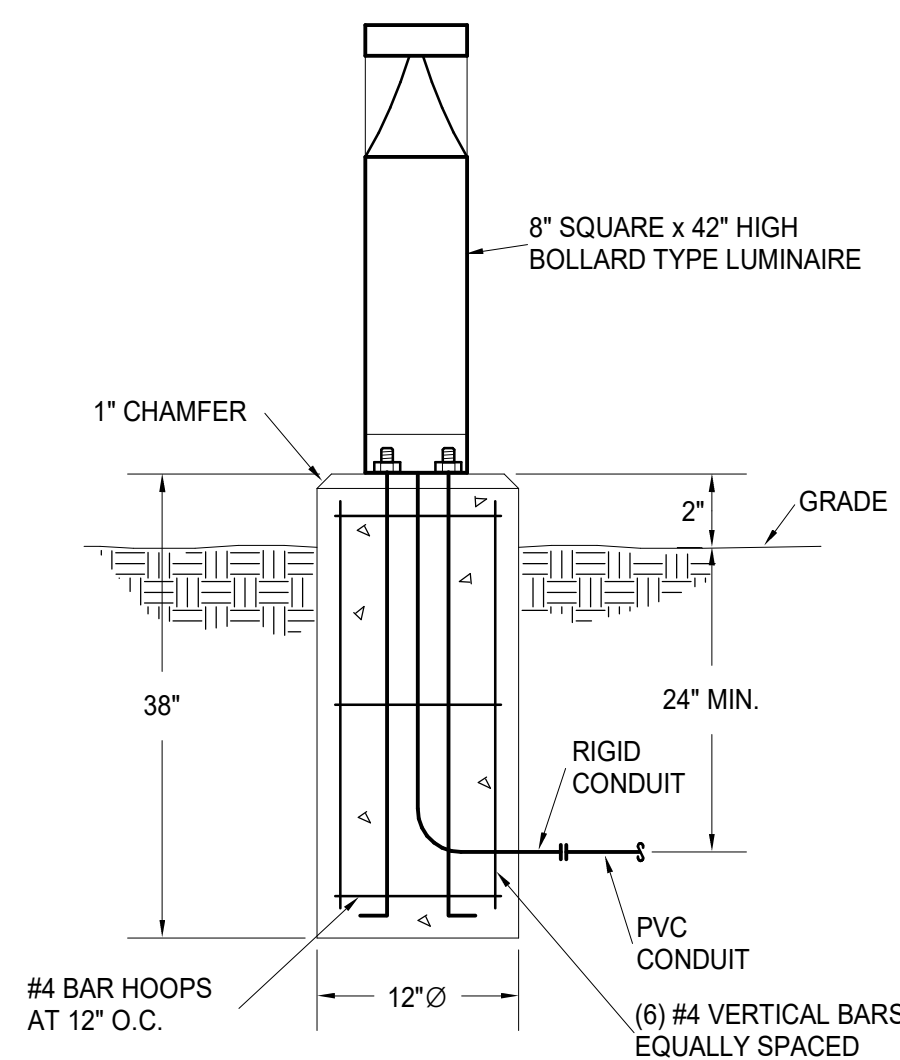
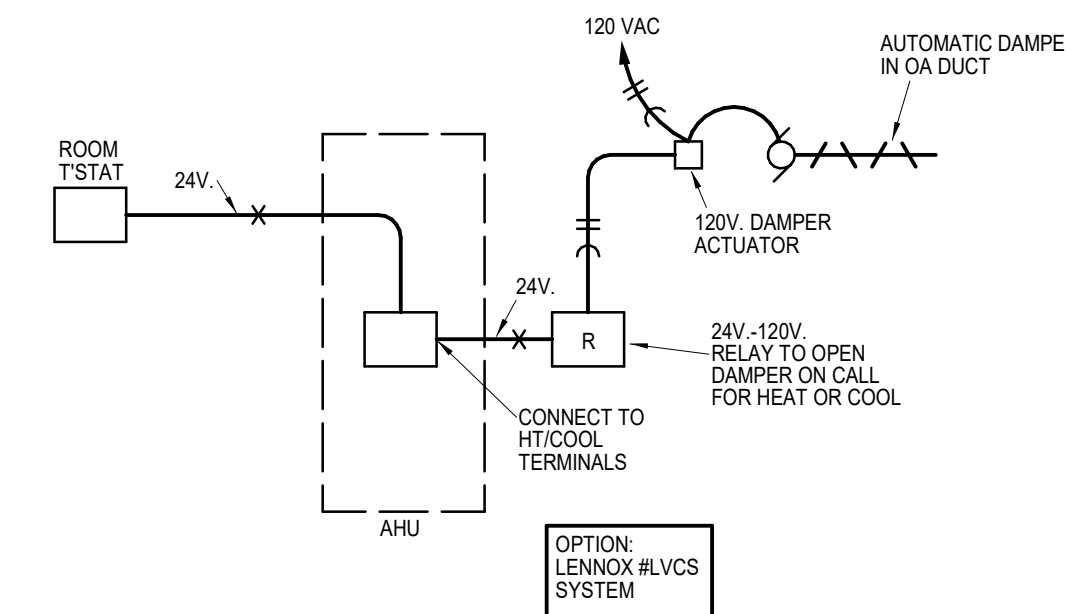
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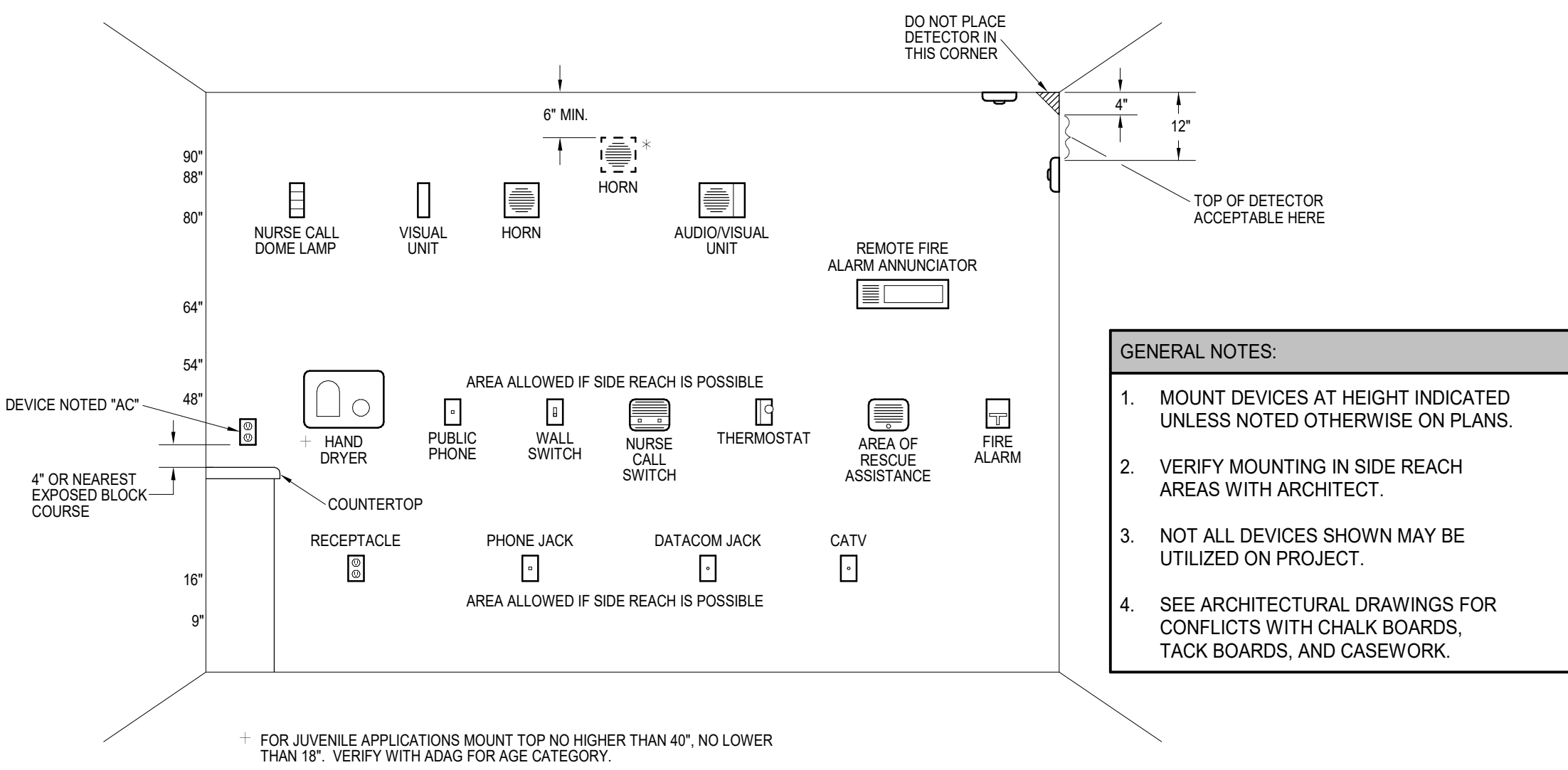
1 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



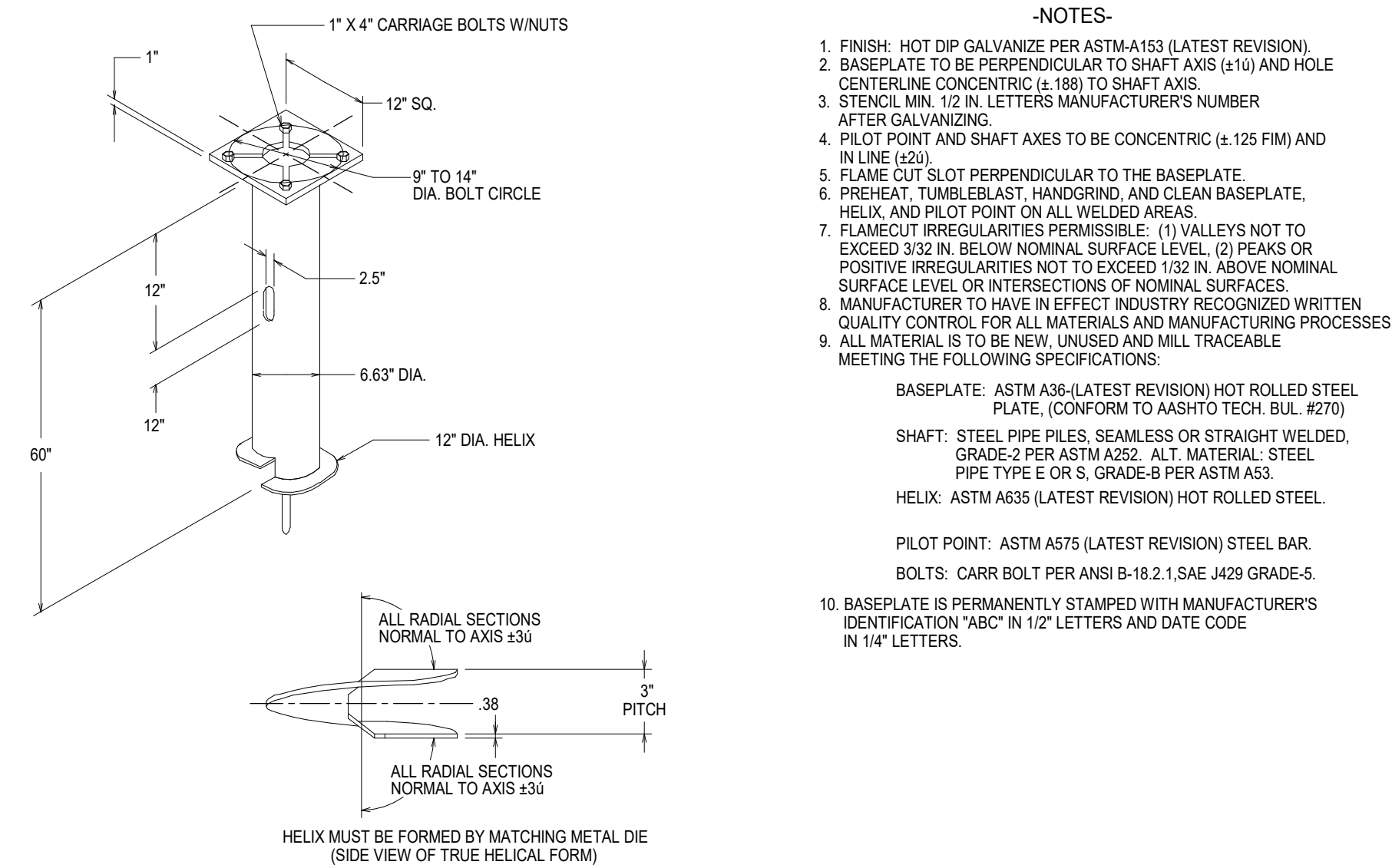
3 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



6 LIGHT BOLLARD
NOT TO SCALE



7 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



8 LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE

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A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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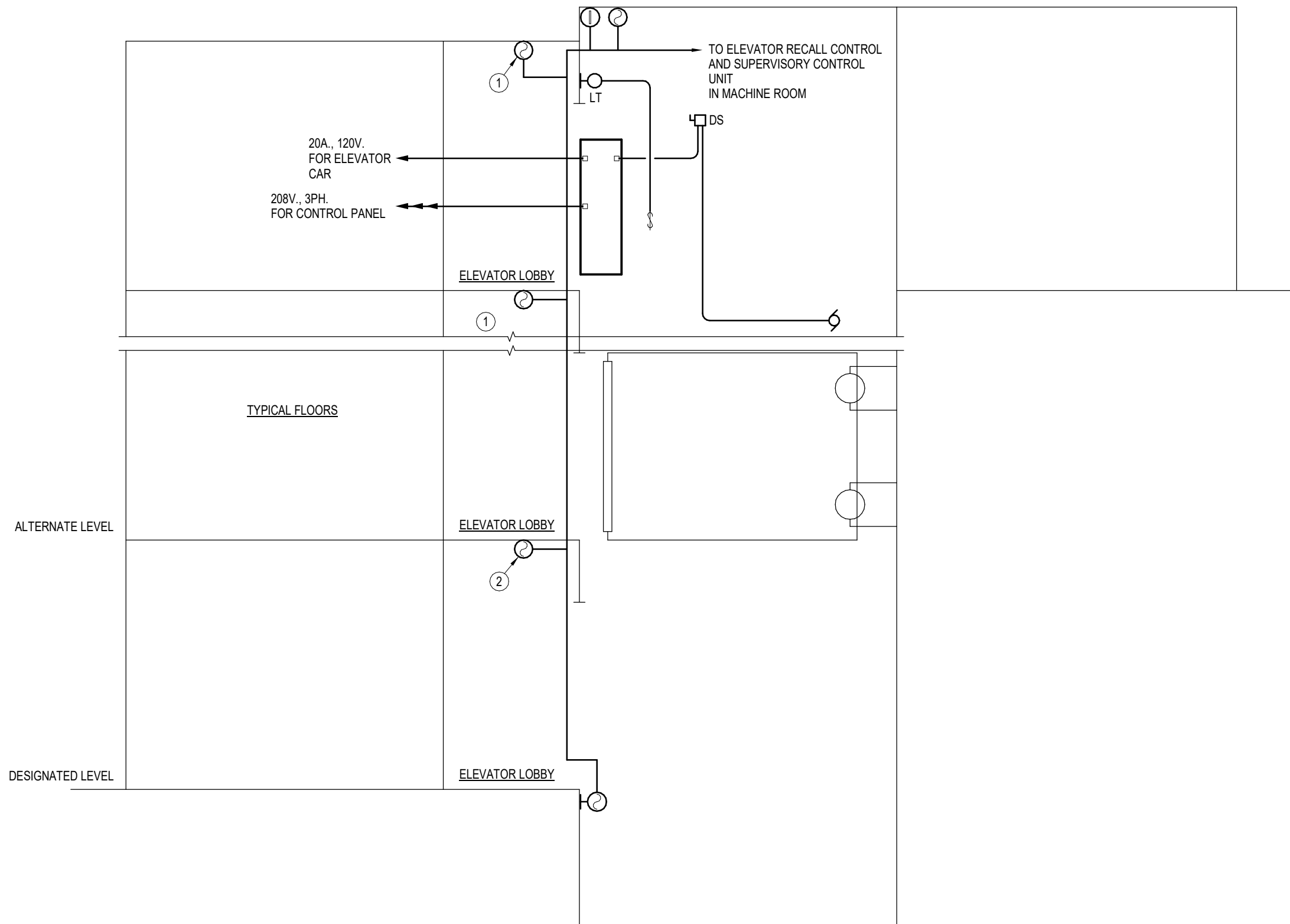
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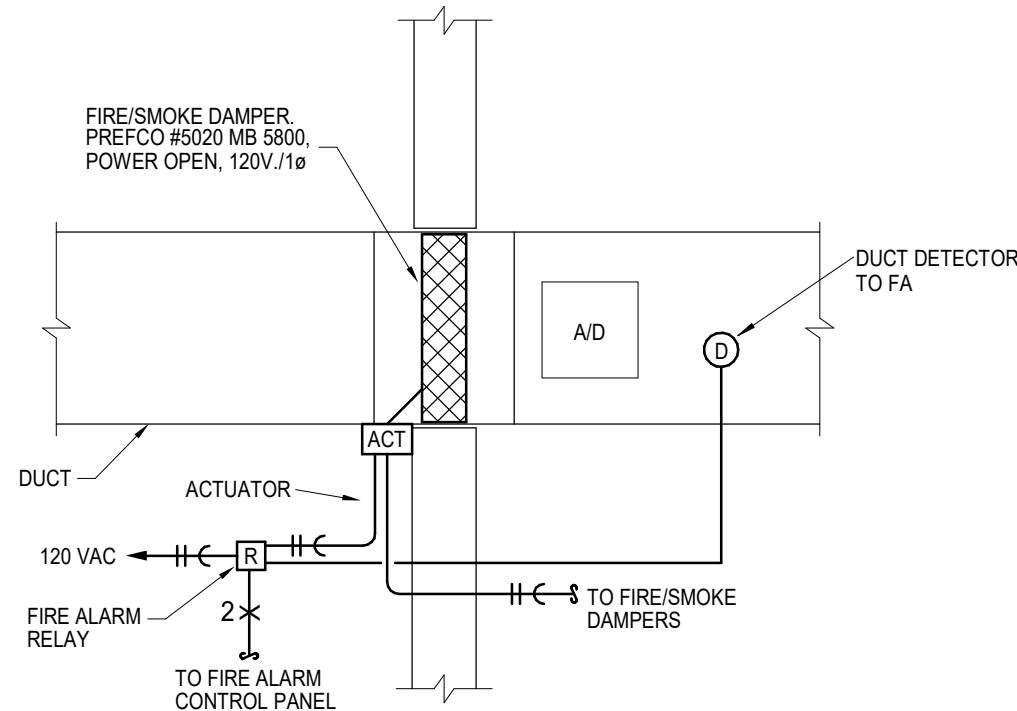
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PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD BEARDMORE
Professional Engineer
3-24-23

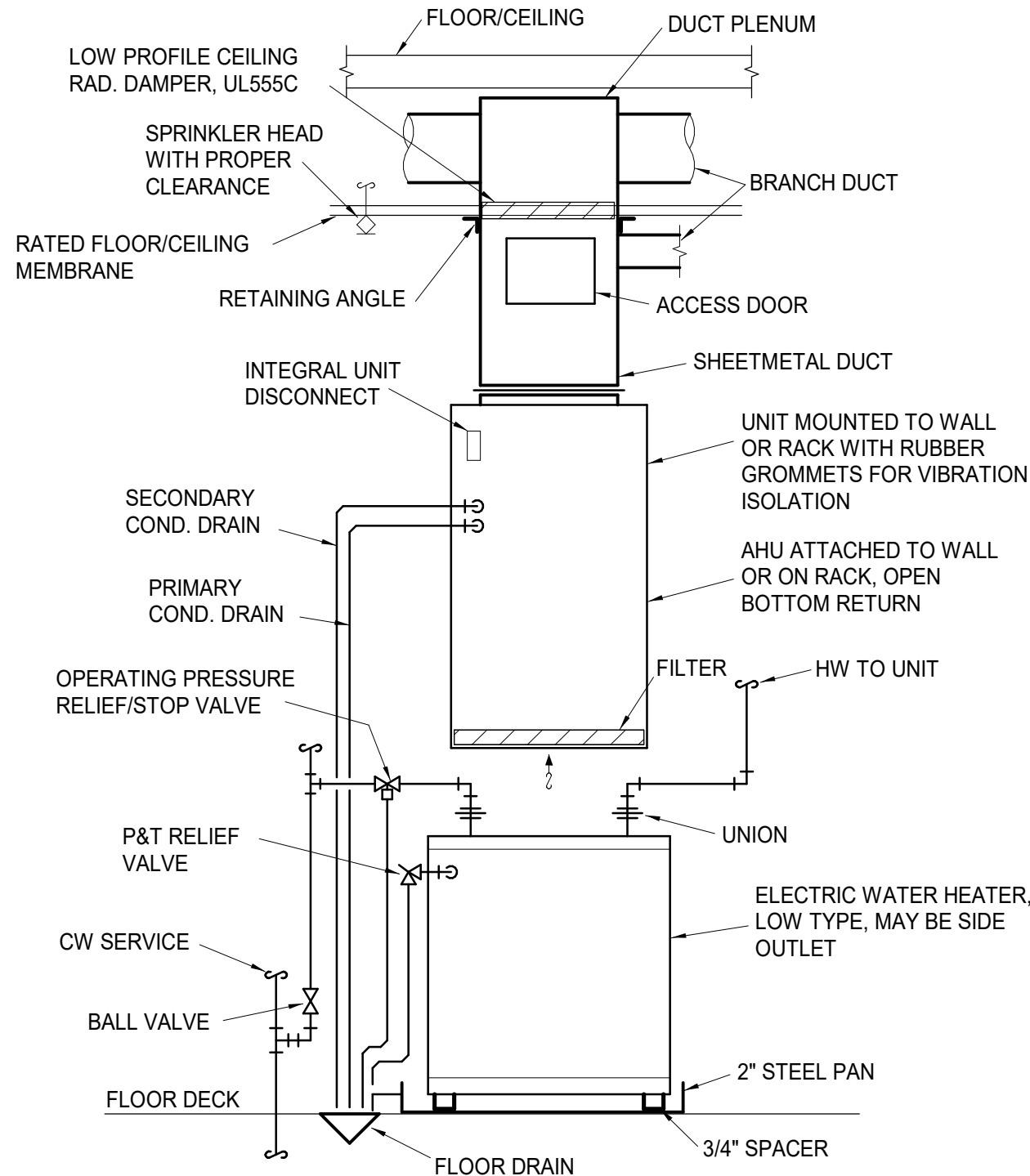


SYMBOLS LEGEND:	
①	HEAT DETECTOR
②	SMOKE DETECTOR
⚡	SPRINKLER

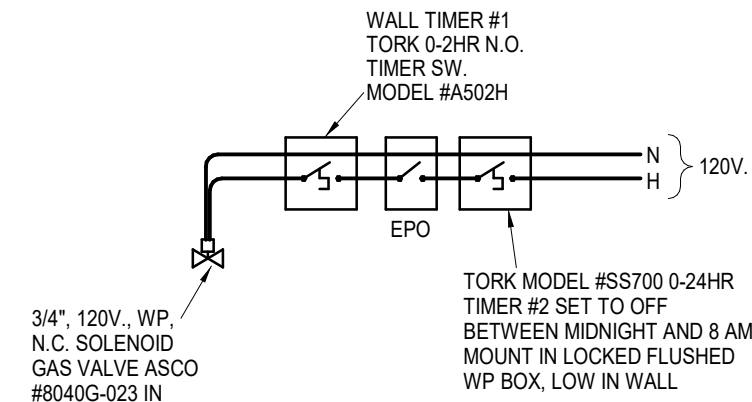
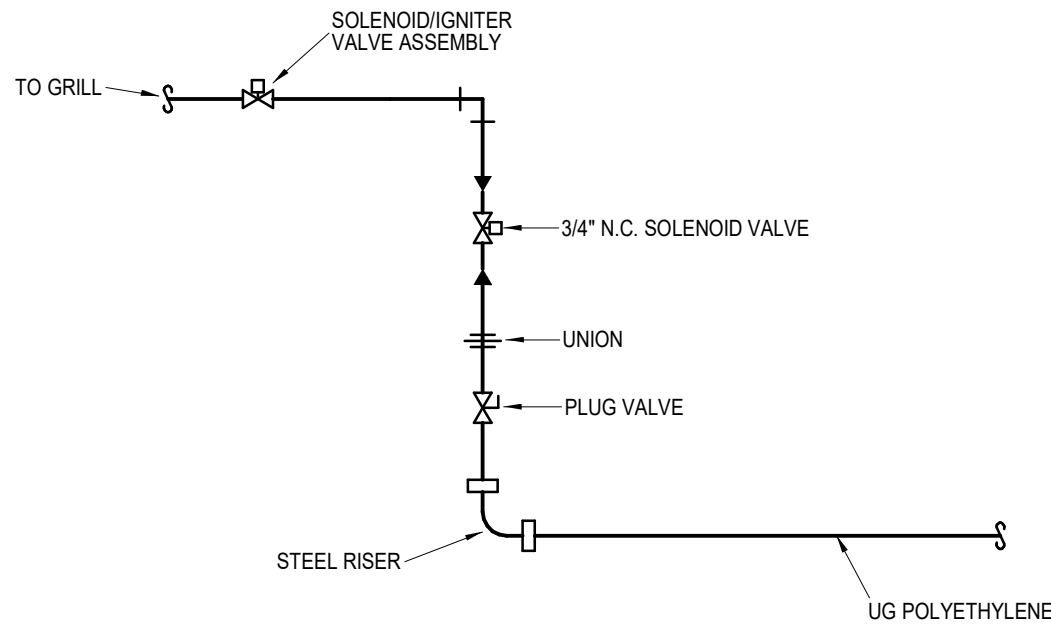




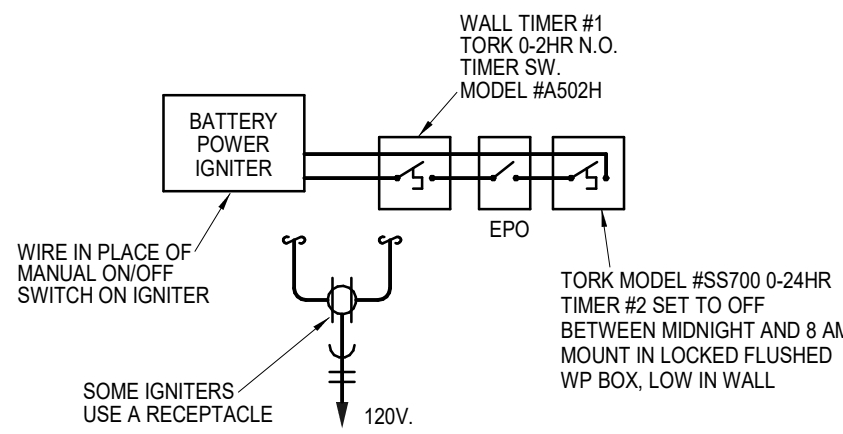
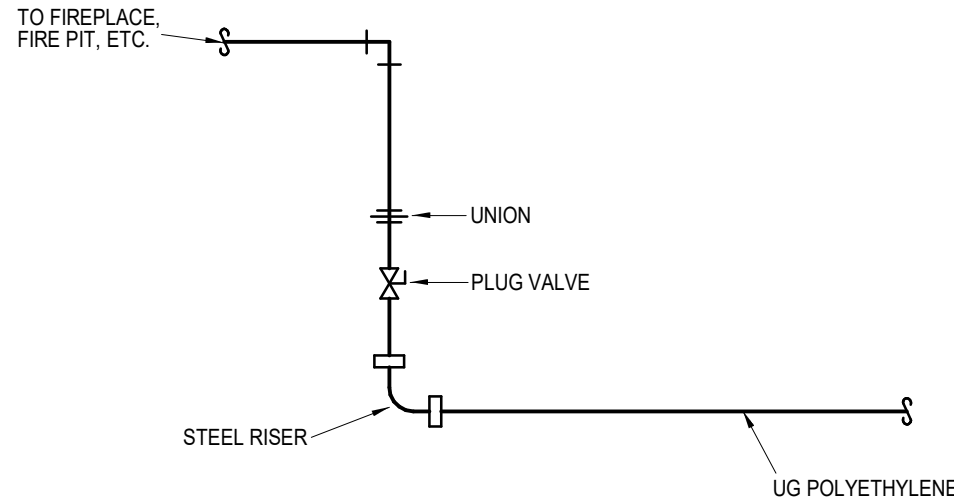
1 FIRE/SMOKE DAMPER DETAIL ELEC
NOT TO SCALE



2 MECHANICAL CLOSET DETAIL
NOT TO SCALE



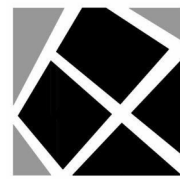
CONTROL SCHEMATIC
(GRILL)



CONTROL SCHEMATIC
(FIRE PIT)

3 GAS GRILL/FIRE PIT DETAIL
NOT TO SCALE

LUMINAIRE SCHEDULE							
MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Disk Light	ASD	ASD-LDS-6D1530-WH-12 CONFIRM WITH OWNER	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
B							
C.1	Club Stair Pendant	Confirm with Owner/Arch					
D							
E	Patio Sconce	Confirm with Owner/Arch					
F.1	Typical Unit Fan	Confirm with Owner/Arch					
F.1	Typical Unit Fan	Confirm with Owner/Arch					
G	Kitchen Pendant	Confirm with Owner/Arch		wall	br. Nickel	1-13W 3000K LED	
H	Decroative Corridor/Unit	Confirm with Owner/Arch				1-10W LED	
J	Not used						
K	Not used						
L.1	Club Tape Light	Confirm with Owner/Arch					
L.1	Club Tape Light	Confirm with Owner/Arch					
M	Strip Light	Lithonia	CSVT-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	surface	white	4000 Lumen 3500K LED	With Battery
N	Mechanical Closet / Storage	Satco	62/1312	surface	white	16.5W LED 4000K 1050LM	with built in motion
P.1	Club Pendant	Confirm with Owner/Arch					
P.1	Club Pendant	Confirm with Owner/Arch					
R	Club Puck Light	Confirm with Owner/Arch					
R.1	Puck Light	Confirm with Owner/Arch					
R.3	Puck Light	Confirm with Owner/Arch					
S.1	Unit Entry Light	Confirm with Owner/Arch					
S.1	Club Directional Spot Light	Confirm with Owner/Arch					
T.1	Guest Suite Track Light	Confirm with Owner/Arch					
W.1	Club Vanity	Confirm with Owner/Arch					
W.2	Club Sconce	Confirm with Owner/Arch					
W.3	Unit Vanity	Confirm with Owner/Arch					
W.4	Unit Entry Light	Confirm with Owner/Arch					
X1	Exit	Progress	PETPE-UR-30-RC	surface	white/red	1.5W LED	
X2	Exit w/heads	Progress	PECUE-UR-30-RC	surface	white/red	1.5W LED	
X3	Dual-Head Emergency	NICOR	EML7	surface	std	700 lumen	
X4	Exterior Remote Head	Progress	PERHC-SG-OD-30	surface	std	1W LED	



3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



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E3.03

Unit Load Calculation			
Unit: B2/B4			VA
1050	square feet at 3 VA per sq. ft.		3150
2 small appliance circuits			3000
Range			8000
Microwave			1000
Washer			1500
Dryer			4400
Water Heater			4500
Dishwasher			740
Disposer			850
Total general load			27140
NEC 220-84 Calculation			
First 10 KVA at 100%			10000
Remainder at 40%			6856
Heater Load	5600	65%	3640
Total load			20496
Load for unit service Amp @ 208 volt/1			99
Connected Load			32740

Unit Load Calculation				VA
Unit: C1				
1175	square feet at 3	VA per sq. ft.		3525
2	small appliance circuits			3000
Range				8000
Microwave				1000
Washer				1500
Dryer				4400
Water Heater				4500
Dishwasher				740
Disposer				850
Total general load				27515
NEC 220-84 Calculation				
First 10 KVA at 100%				10000
Remainder at 40%				7006
Heater Load	7200	65%		4680
Total load				21686
Load for unit service Amp @ 208 volt/1				104
Connected Load				34715

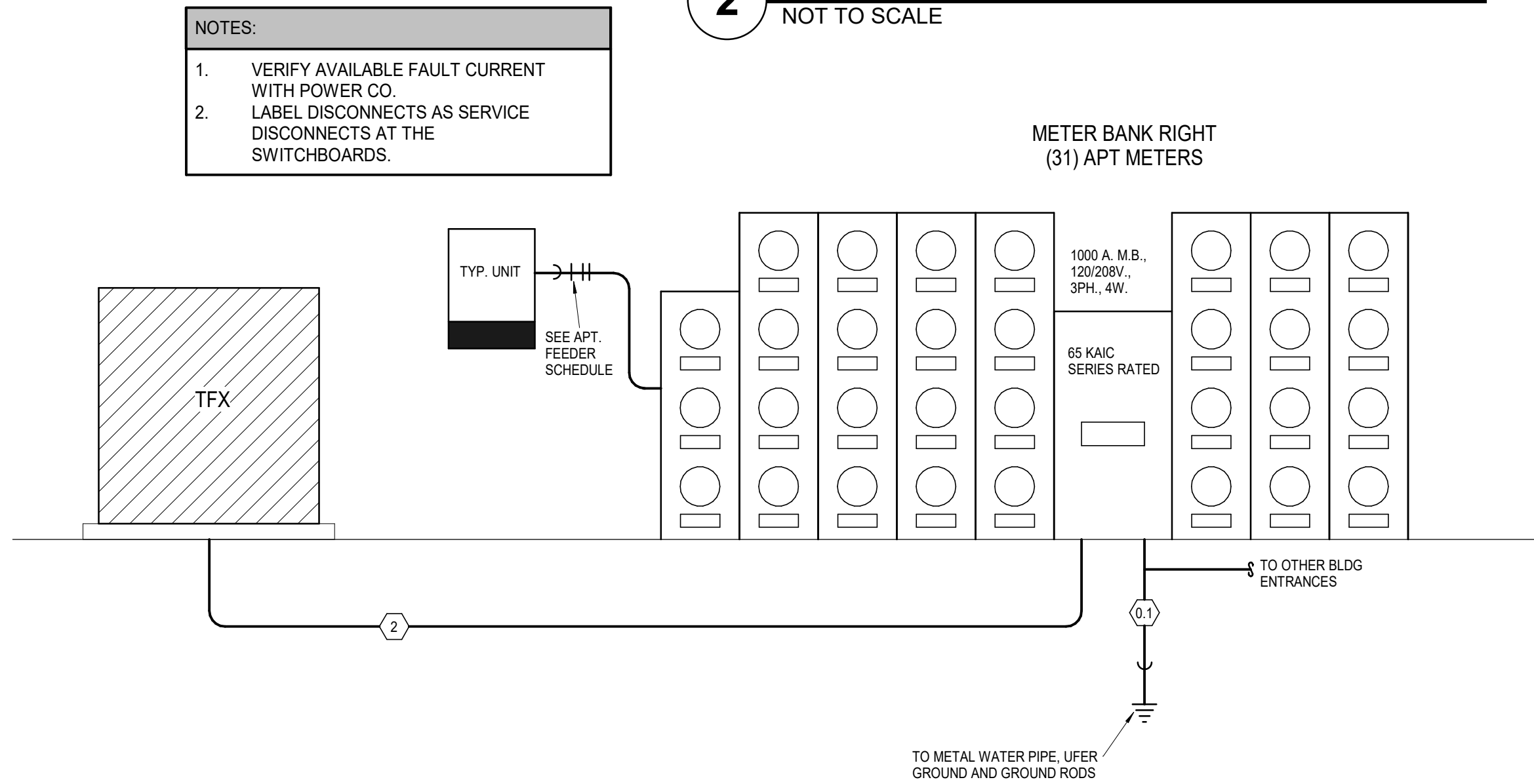
Multi-Family Building Load Analysis			
Building:		LEFT	
Unit Quantity	Unit Type	Connected Load - VA	Total KVA
3	S	28950	86.9
17	A1/A2	31690	538.7
5	B2	32740	163.7
1	B2-ALT	33070	33.1
	B3	32575	0.0
	B4	32740	0.0
6	C1	34715	208.3
	Total Building KVA		1030.6
	Total Units		32
	Diversity per NEC Table 230.84		0.31
	Diversified KVA		319.5
	Amps @ 208 V Three Phase		887
	House Load - Amps		300
	Total Demand - Amps		1187

ELECTRICAL PANEL SCHEDULE						
PANEL: B AND C UNITS			POLES: 24		MOUNTING: FLUSH	
BUS: 125A.		MAINS: MLO		VOLTAGE: 120/240		PHASE/WIRE : 1 Ph 3 Wire
CIRCUIT NUMBERS	DESCRIPTION	AMPS	POLES	KAIC: 10K		QUANTITY
1, 3	RANGE	40	2			1
5, 7, 13, 15	WATER HEATER, DRYER	30	2			2
9, 11	AHU	50	2			1
17, 19	CONDENSING UNIT	30	2			1
2, 22	LIGHTS AND RECEPTACLES	20	1			2
4 THRU 20 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1			9
21	SPARE	20	1			1

NOTES:

1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.
2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.

Diagram illustrating the electrical service configuration for the building, showing the transformer (TFX), the 400A 208V 3P NEMA 3R DS fused disconnect (FRN-R), and the distribution panels (Panel Club-1, Panel Club-2, and Panel Pool) with their respective ratings (400A, 400A, and 100A).



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50 Highway & Blackwell, Lee's Summit, MO

STATE OF MISSOURI
 RICHARD R. BEARDMORE
 LICENSE NO. 19967
 PROFESSIONAL ENGINEER
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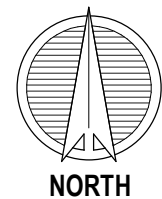
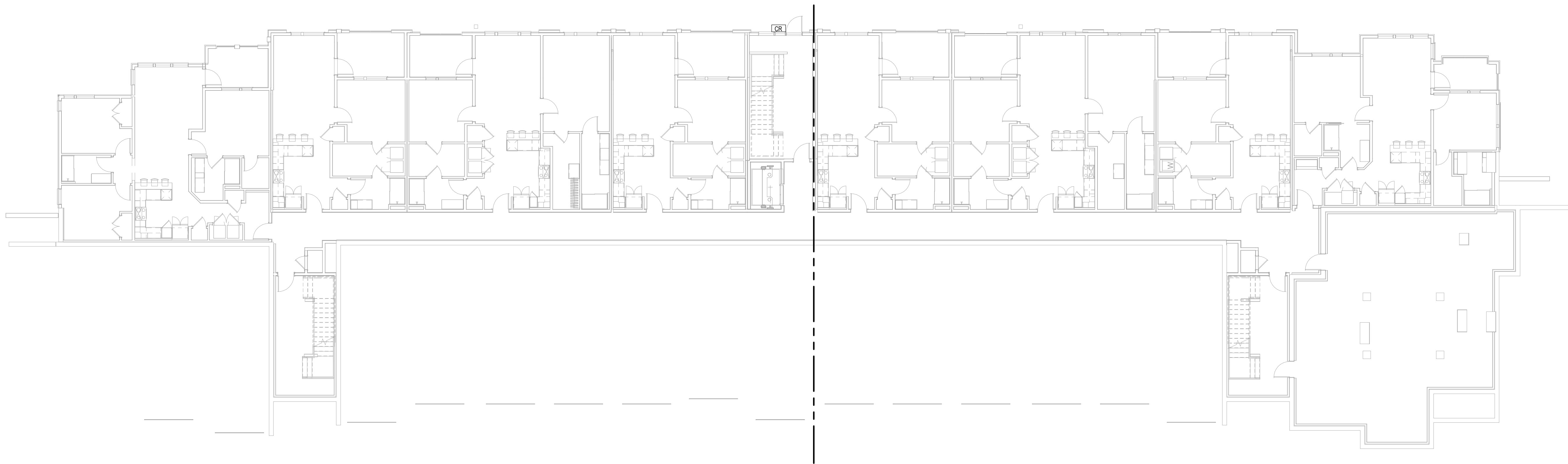


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LEGEND:	
①	PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

NOTES:	
1.	ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



1

LOWER LEVEL BUILDING - TELECOM

TELECOM
3/32" = 1'-0"



3-24-23

A NEW DEVELOPMENT:

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50 Highway & Blackwell, Lee's Summit, MO



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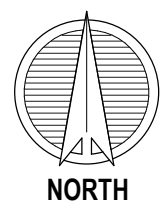
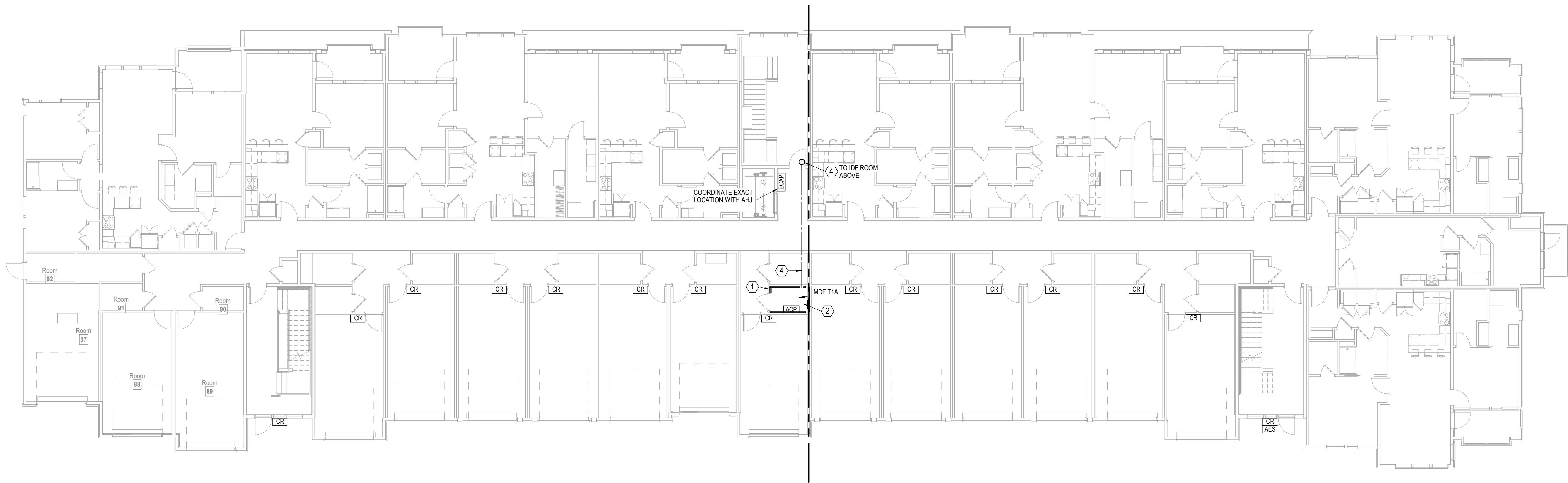
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696521
DRAWN BY:
Author
SHEET NO.

T1.10



1 1ST FLOOR BUILDING PLAN
TELECOM
3/32" = 1'-0"

LEGEND:	
①	PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.
NOTES:	
1.	ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



3-24-23

A NEW DEVELOPMENT:
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50 Highway & Blackwell, Lee's Summit, MO



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△ REVISIONS:



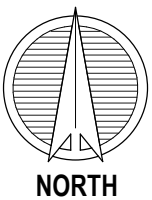
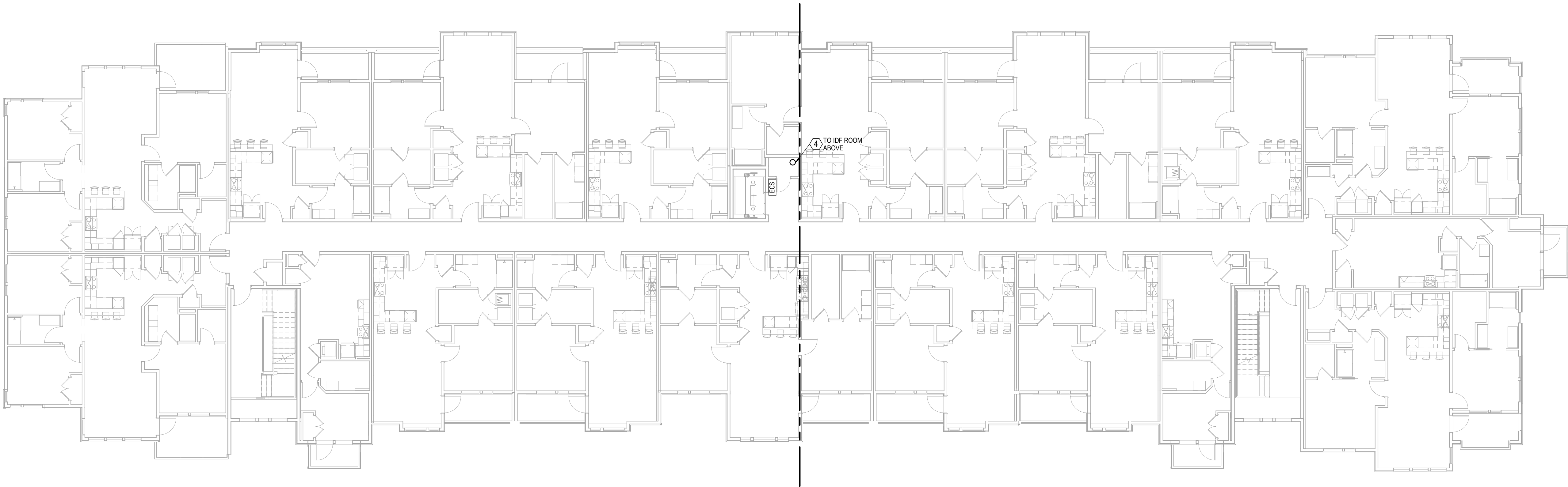
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SHEET NO.

T1.11

LEGEND:	
①	PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

NOTES:	
1.	ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



1 2ND FLOOR BUILDING PLAN
TELECOM
3/32" = 1'-0"



3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



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△ REVISIONS:

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T1.12

LEGEND:

1

PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.

2

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.

3

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.

4

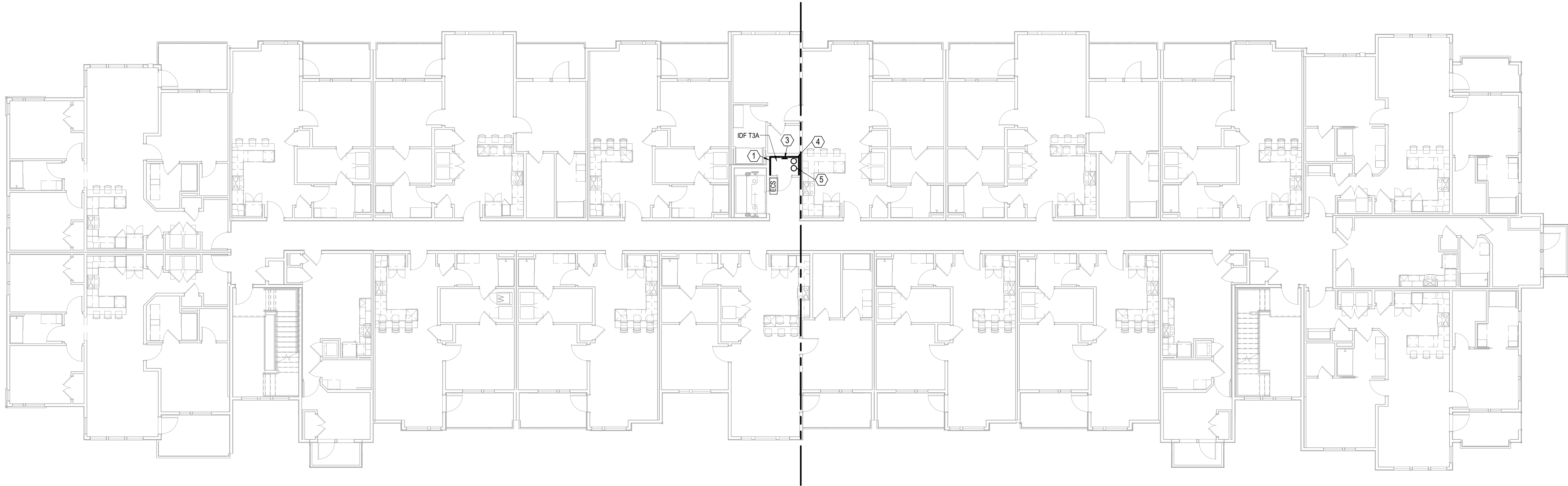
(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.

5

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

NOTES:

1. ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO IDF T3A



1

3RD FLOOR BUILDING PLAN

TELECOM

3/32" = 1'-0"

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ARCHITECTS[™]
3515 W. 75TH ST., SUITE 201
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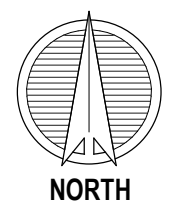
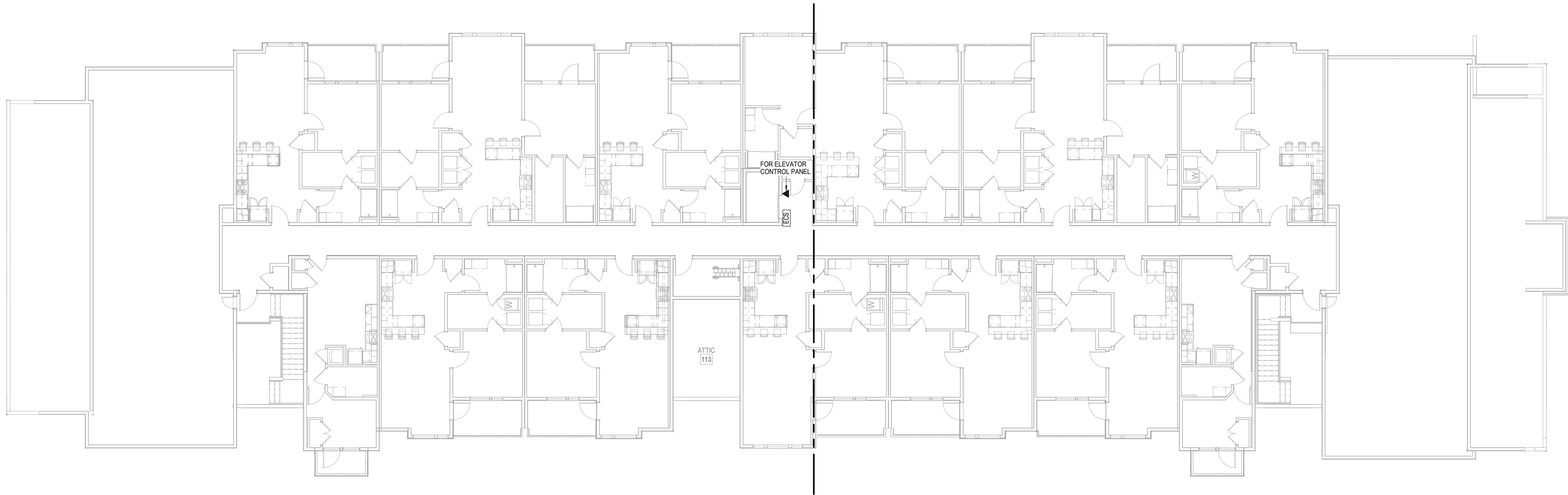
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T1.13



1 4TH FLOOR BUILDING PLAN
TELECOM
3/32" = 1'-0"

LEGEND:	
①	PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

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50 Highway & Blackwell, Lee's Summit, MO



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T1.14



The floor plan includes the following areas:

- UNISEX**: Rooms 31, 32, and 33.
- STORAGE**: Room 31.
- CORRIDOR**: Room 37.
- ELEVATOR**: Room 38.
- FITNESS RM.**: Room 27.
- MEN**: Room 30.
- WOMEN-3**: Rooms 29-3 and 29-1.
- WOMEN-2**: Room 29-2.
- MECH. RM.**: Room 28.
- GYM**: Room 26.
- VERIFY EXACT LOCATION AND QUANTITY WITH FINAL FITNESS LAYOUT.**: Three locations indicated by arrows pointing to specific equipment in the gym area.
- COORDINATE EXACT LOCATION WITH AHJ**: Indicated near the elevator area.
- BOARD RM.**: Room 22.
- LOUNGE**: Room 35.
- GOLF SIMULATOR**: Room 34.
- VERIFY EXACT LOCATION AND QUANTITY WITH FINAL GOLF SIMULATOR LAYOUT.**: Two locations indicated by arrows pointing to the simulator area.
- POOL EQUIPMENT**: Room 23.
- DOG WASH ROOM**: Room 24.
- MECH. RM.**: Room 25.
- TV**: Multiple locations marked with "TV" and dimensions like "66\"".
- CR**: Corridor or Restroom area.
- ECAP**: Emergency Call Point located near the elevator.

-
- 3-24-23

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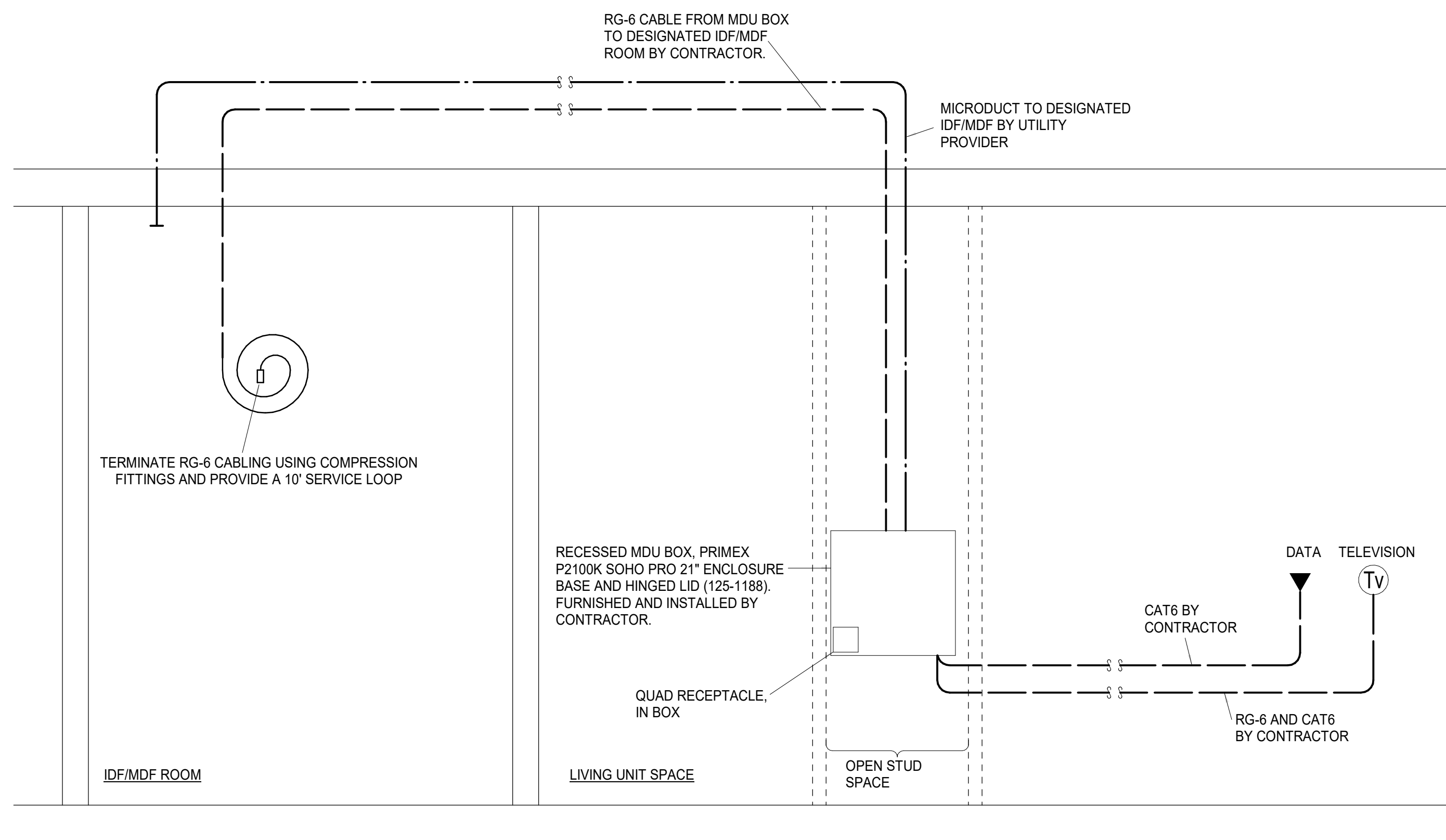
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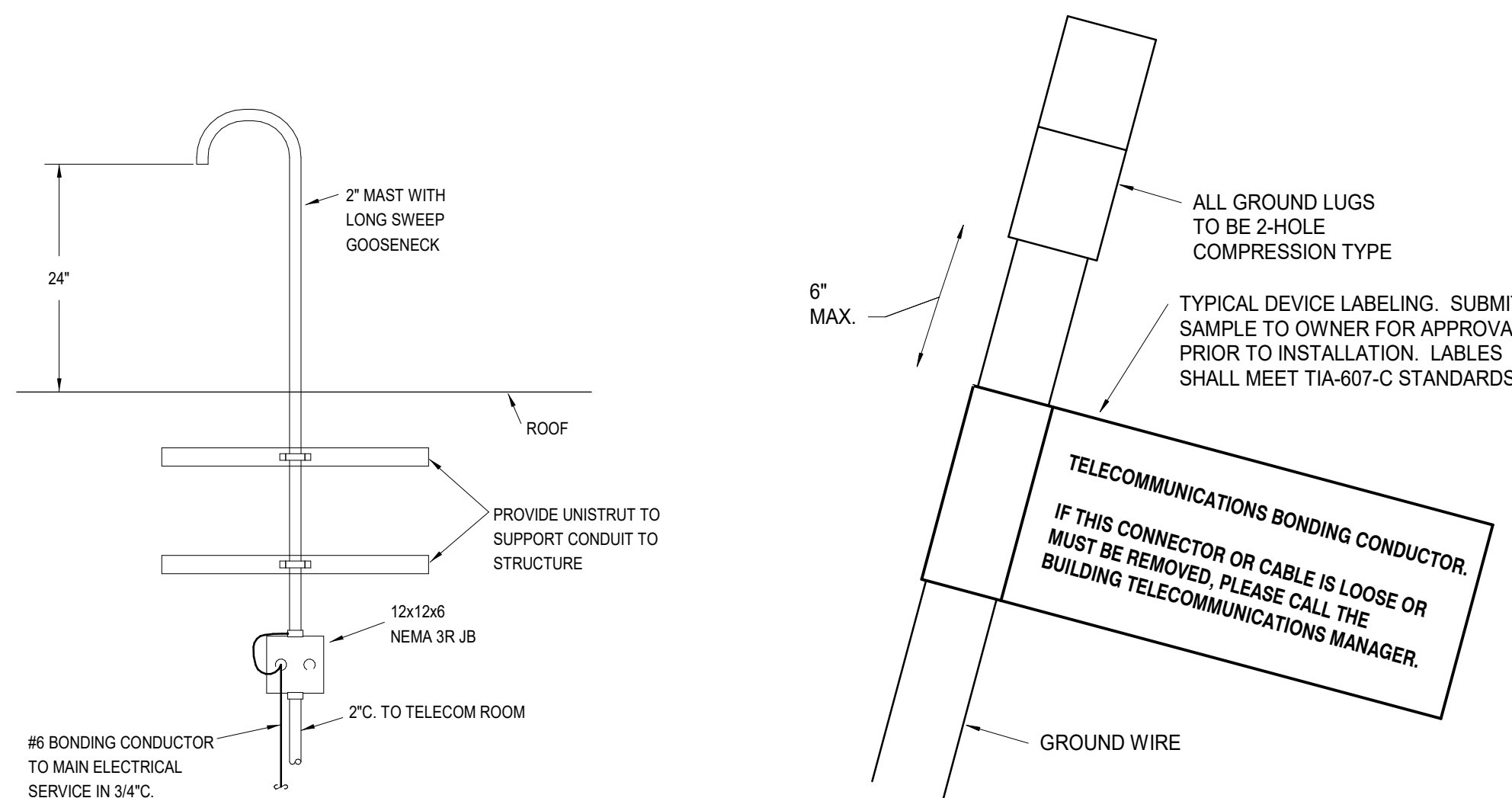
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1 TYPICAL APARTMENT RISER DIAGRAM1



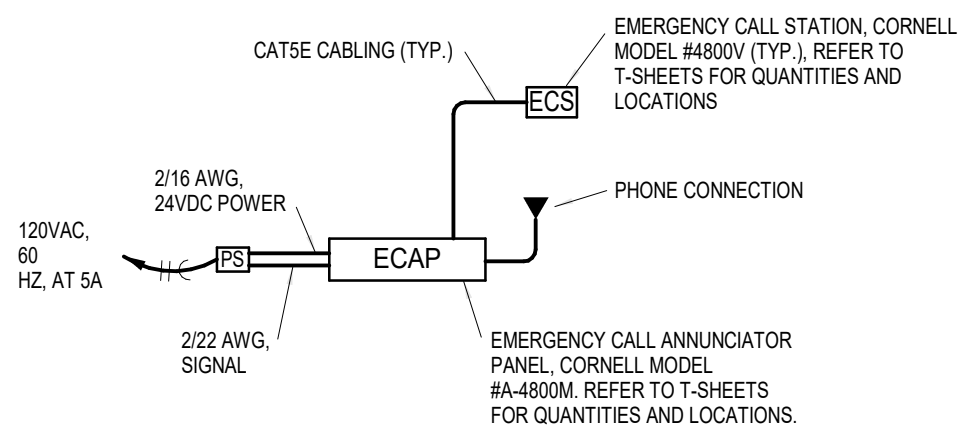
3 WEATHERHEAD DETAIL

4 GROUND WIRE DETAIL

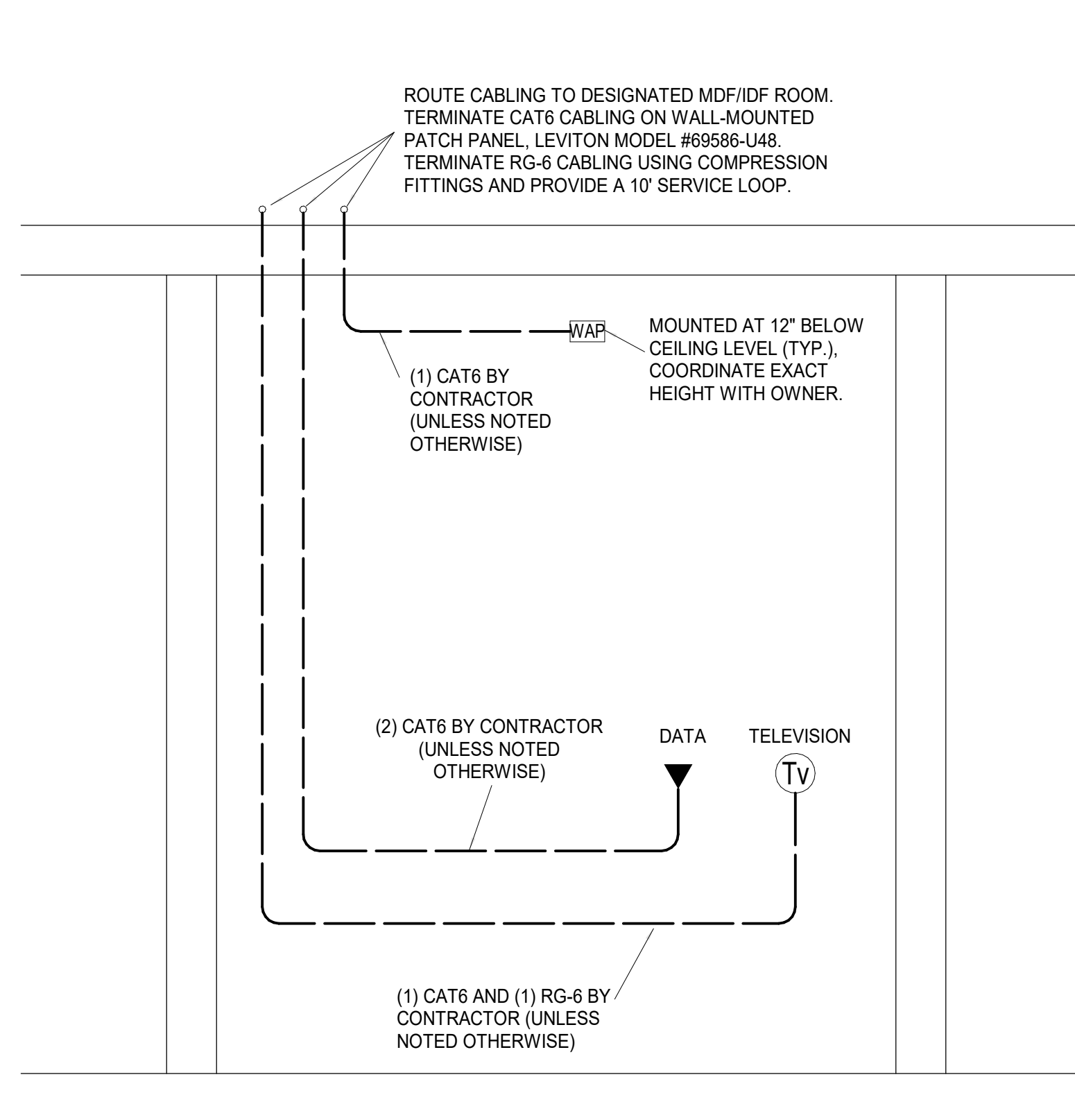
TWO-WAY COMMUNICATION SYSTEM SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
EGAP	CORNELL	A-4800M	EMERGENCY CALL ANNUNCIATOR PANEL	1, 4
ECS	CORNELL	4800V	EMERGENCY CALL STATION	2, 4
PS	CORNELL	B-5248A	POWER SUPPLY	3

REMARKS

- 1 - PROVIDE POWER SUPPLIES AS REQUIRED. PROVIDE WITH STI MODEL #STI-7521 NEMA 4X CLEAR ENCLOSURE WITH THUMB LOCK.
- 2 - PROVIDE WITH DOUBLE GANG BACKBOX AND STI MODEL #STI-7511E CLEAR ENCLOSURE WITH THUMB LOCK.
- 3 - VERIFY SIZE OF POWER SUPPLY WITH LAYOUT OF THE SYSTEM.
- 4 - VERIFY LOCATION WITH AHJ.



5 TWO-WAY COMMUNICATION DIAGRAM
NOT TO SCALE



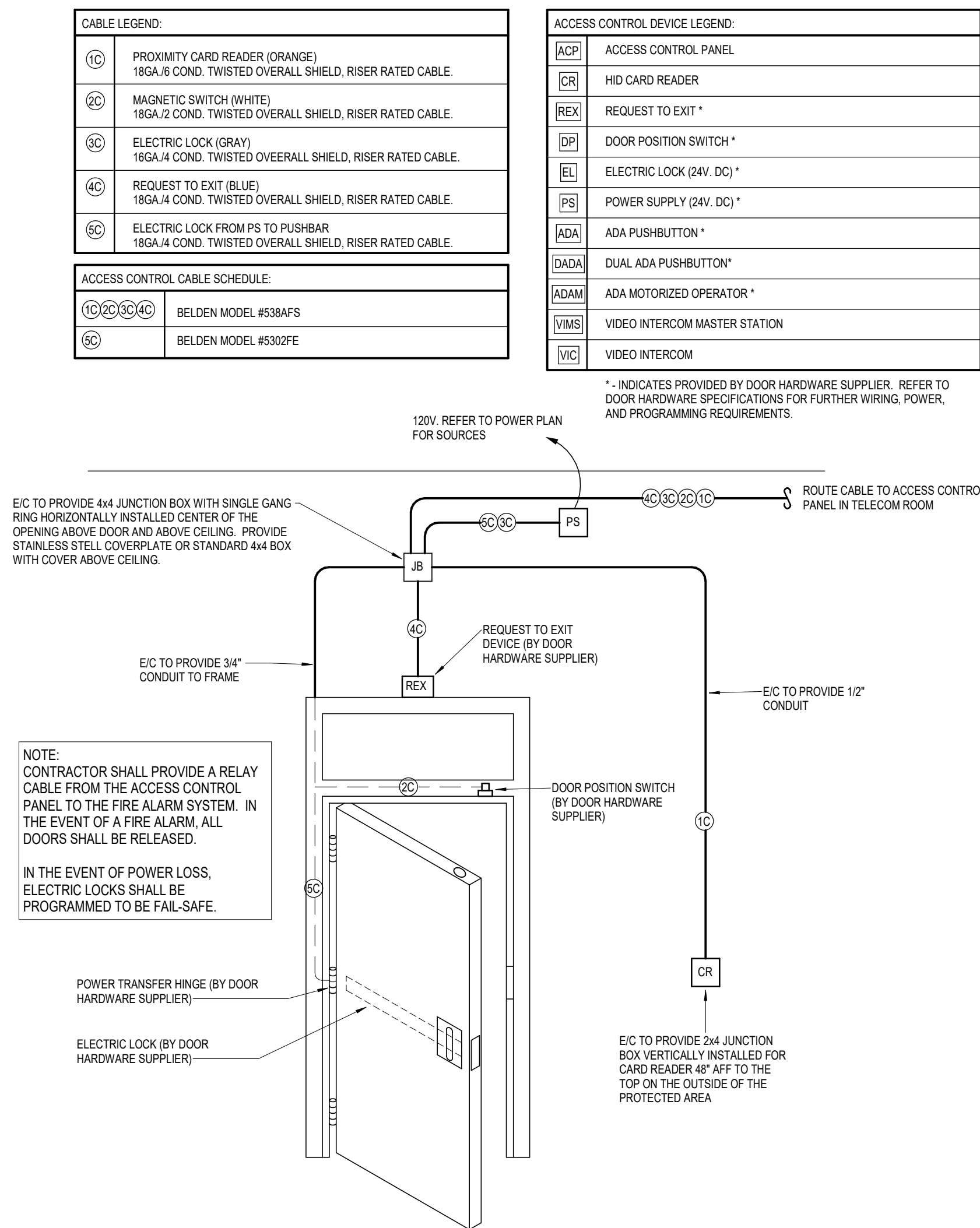
2 TYPICAL COMMON/OFFICE AREA RISER DIAGRAM

NOTES:

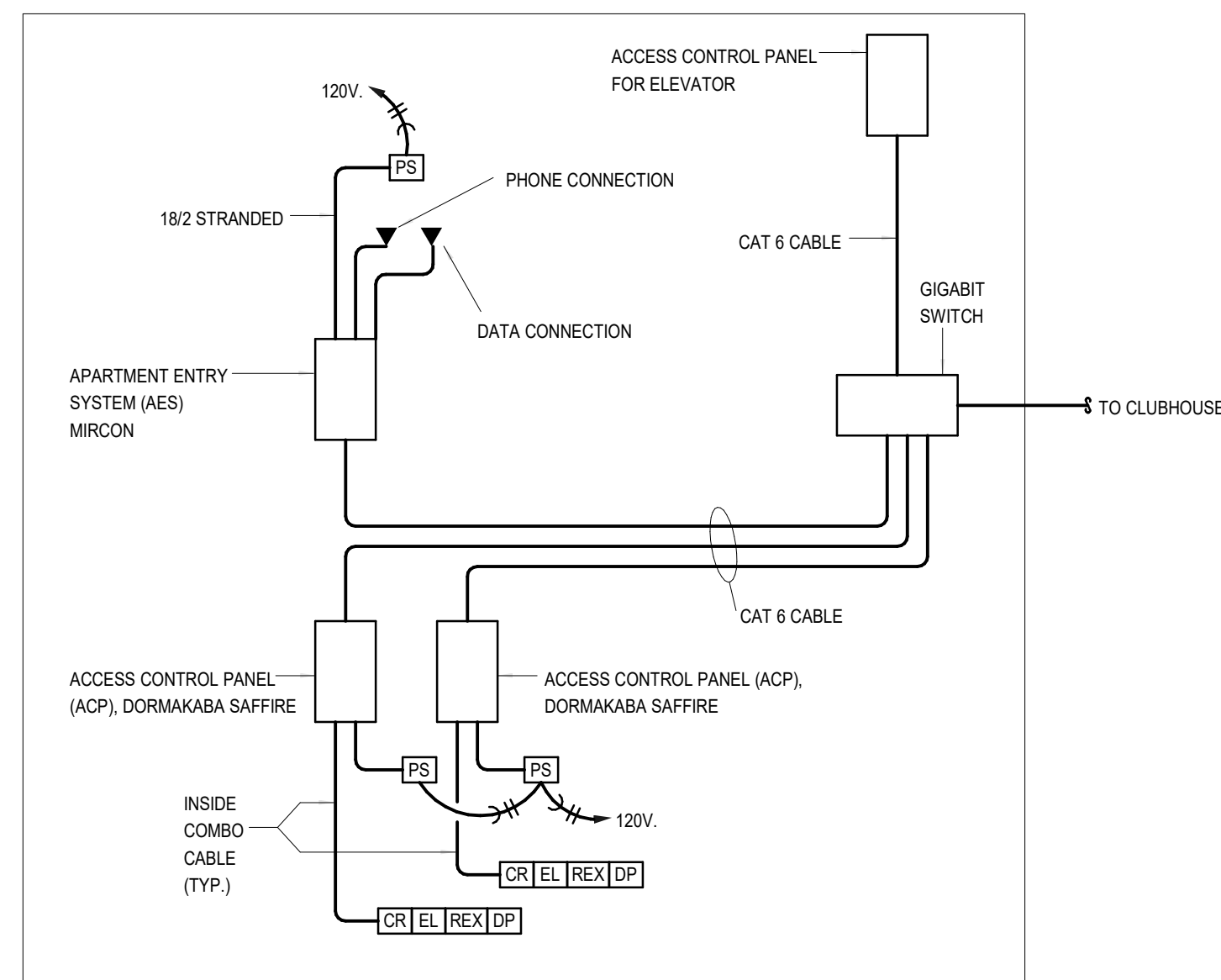
1. DISTRIBUTED ANTENNA SYSTEM: IF BUILDING DOES NOT MEET INTERNATIONAL FIRE CODE (IFC) 510 REQUIREMENTS, CONTRACTOR SHALL INSTALL AND CERTIFY A COMPLIANT IN-BUILDING PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM (DAS) ALSO CALLED AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ER RCS). THE SYSTEM SHALL INCLUDE, BUT NOT LIMITED TO ALL EQUIPMENT, MATERIALS, LABOR, DOCUMENTATION AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE, OPERATIONAL, PUBLIC SAFETY DAS OR ER RCS. ALL WORK TO BE CONDUCTED OR SUPERVISED BY A QUALIFIED SYSTEM INTEGRATOR WITH EXPERIENCE DESIGNING, TESTING, INSTALLING, CERTIFYING AND MAINTAINING EMERGENCY RESPONDER RADIO COVERAGE SYSTEMS. A PRELIMINARY TEST OF EXISTING, UNAMPLIFIED IN-BUILDING RADIO FREQUENCY (RF) SIGNAL COVERAGE SHALL BE CONDUCTED AT 80% CONSTRUCTION COMPLETION PRIOR TO DESIGN AND INSTALLATION OF SYSTEM. TESTING SHALL BE CONDUCTED WITH THE TEST EQUIPMENT AND ANALYTICAL SOFTWARE VERSIONS AVAILABLE. CONTRACTOR SHALL PROVIDE \$3,000 ALLOWANCE FOR TESTING AND \$25,000 ALLOWANCE FOR SYSTEM INSTALL.



3-24-23



6 TYPICAL ACCESS DOOR DETAIL



7 TYPICAL ACCESS CONTROL PANEL DETAIL

ACCESS CONTROL CABLE SCHEDULE				
MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
(1C)(2C)(3C)(4C)	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
(5C)	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
(6C)	CSC	759218	OUTSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1

REMARKS

- 1 - PROVIDED AND INSTALLED BY E/C.
- 2 - E/C TO ROUTE CABLE FROM DEVICE AND LEAVE A 8'-0" SERVICE LOOP AT THE BURGLAR ALARM PANEL. PROVIDE A 24" SERVICE LOOP AT DEVICE. PROVIDE A MECHANICALLY PRINTED LABEL ON EACH END OF EACH CABLE FOR REFERENCE.
- 3 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

SECURITY SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
[CR]	DORMAKABA	SAFFIRE	CARD READER	
[ACP]	DORMAKABA	SAFFIRE	ACCESS CONTROL PANEL	1
[AES]	MIRCON		APARTMENT ENTRY SYSTEM	
	HID		FOBs	1

REMARKS:

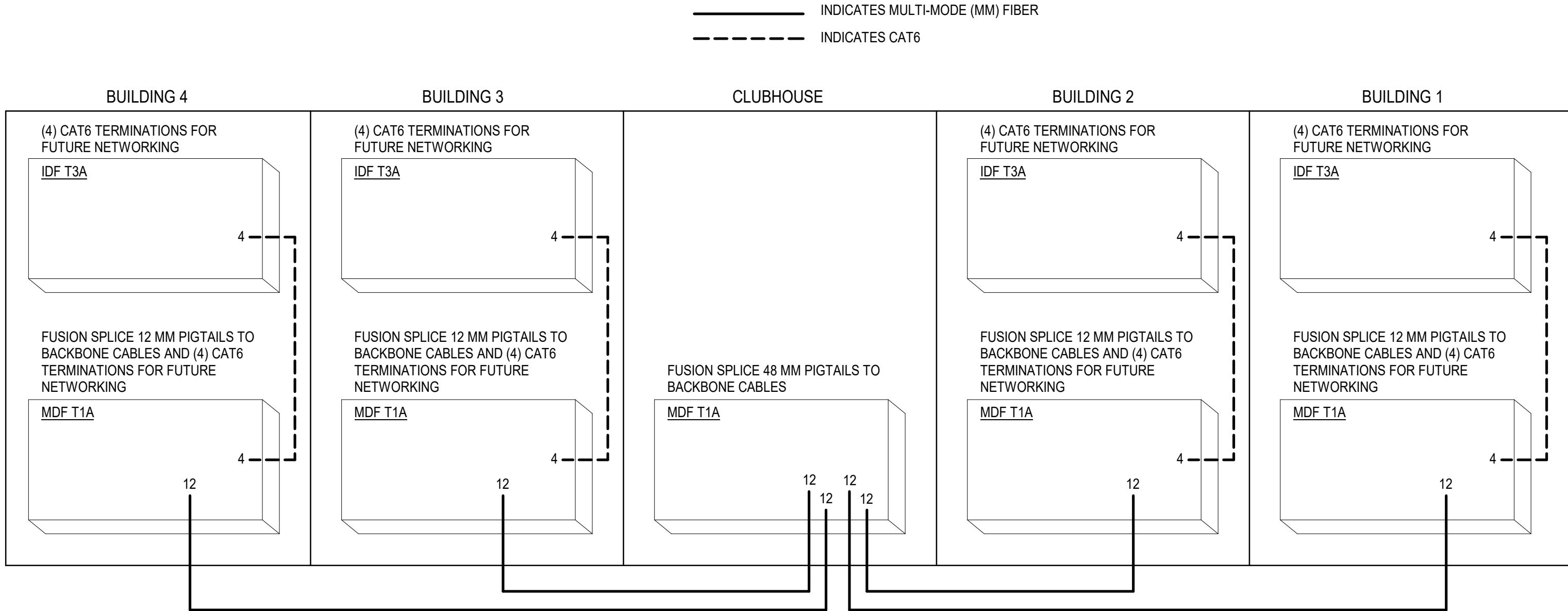
- 1 - VERIFY QUANTITY WITH OWNER



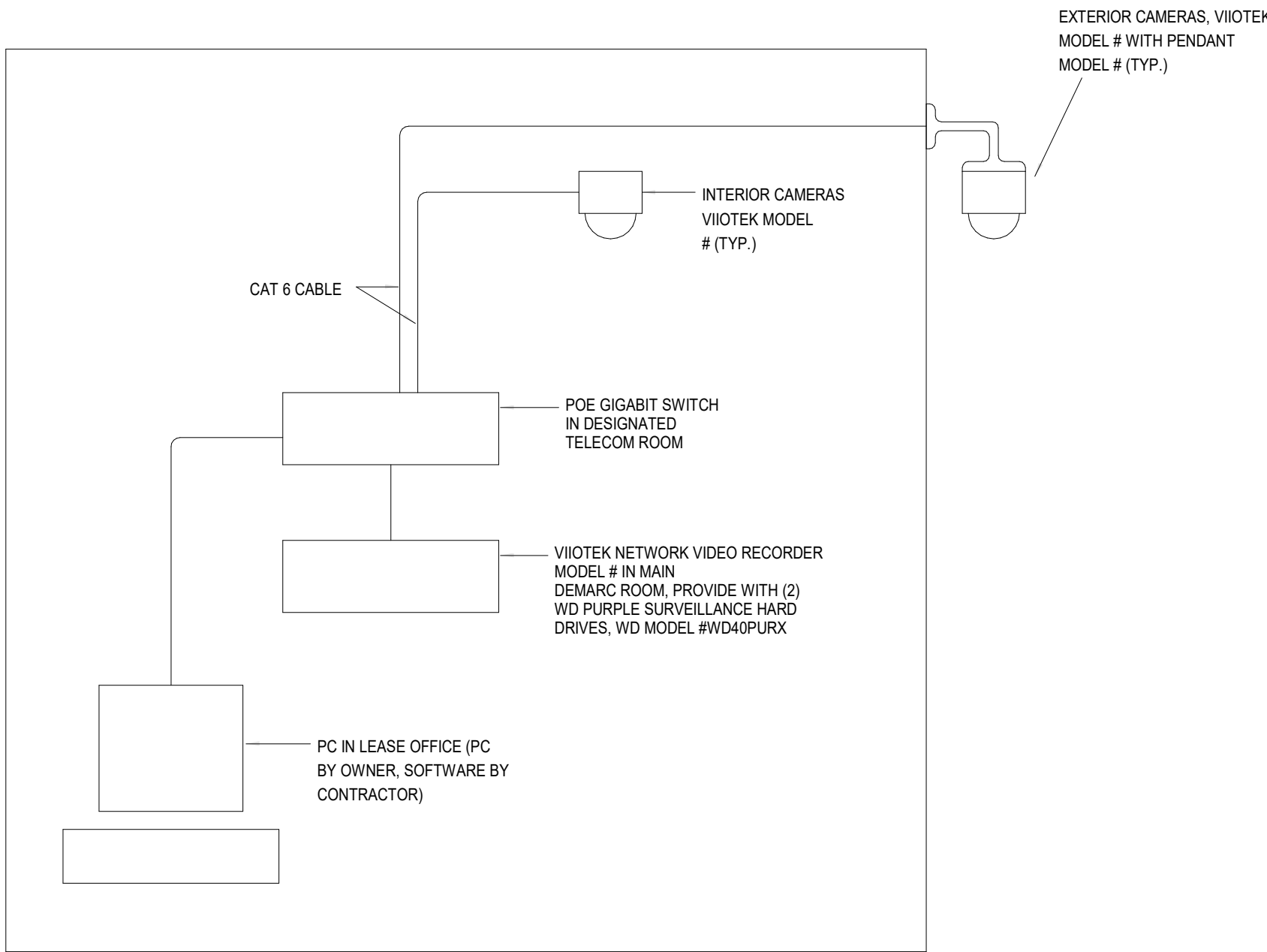
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1 **BACKBONE CABLE TERMINATION DETAIL**
NOT TO SCALE



2 **TYPICAL SECURITY CAMERA DETAIL**
NOT TO SCALE