

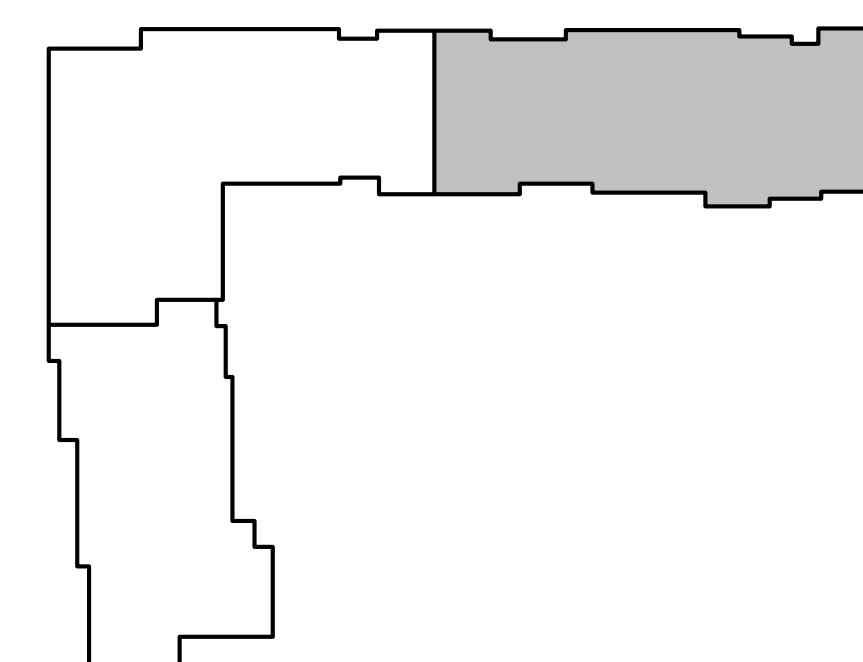
- NOTES:**
1.  ARE TYPE "X2" UNLESS NOTED OTHERWISE.
 2.  ALL STAR LIGHTS ARE TYPE "X4" UNLESS NOTED OTHERWISE.
 3.  ARE TYPE "X1" UNLESS NOTED OTHERWISE.
 4.  ARE TYPE "X2" UNLESS NOTED OTHERWISE.
 5.  ARE TYPE "X6" UNLESS NOTED OTHERWISE.
 6.  STAIR LIGHTS ARE TYPE "P" U.N.O.
 7. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
 8. SEE UNIT PLANS FOR FURTHER WORK.
 9. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT.
 10. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
 11. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
 12. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
 13. "DIP-1" DENOTES DISTRIBUTION PANEL.

LEGEND:

① TO LIGHTING CONTROL PANEL



1 BLDG 2-C, PARTIAL THIRD FLOOR PLAN
1/8"=1'-0" ELECTRICAL



KEY PLAN
NO SCALE



LS&A
Lutimer Sommer
& Associates, P.C.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
E-Mail: lsapa@lsapa.com
LSA PROJECT NO. 2154009

The Signature at West Pryor

2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



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www.trjarchitects.com

DATE: 7.15.2021

REVISIONS

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TR i PROJECT NO 20-001

SHEET NO. _____

E121

BLDG 2-C, PARTIAL THIRD FLOOR
PLAN - ELECTRICAL



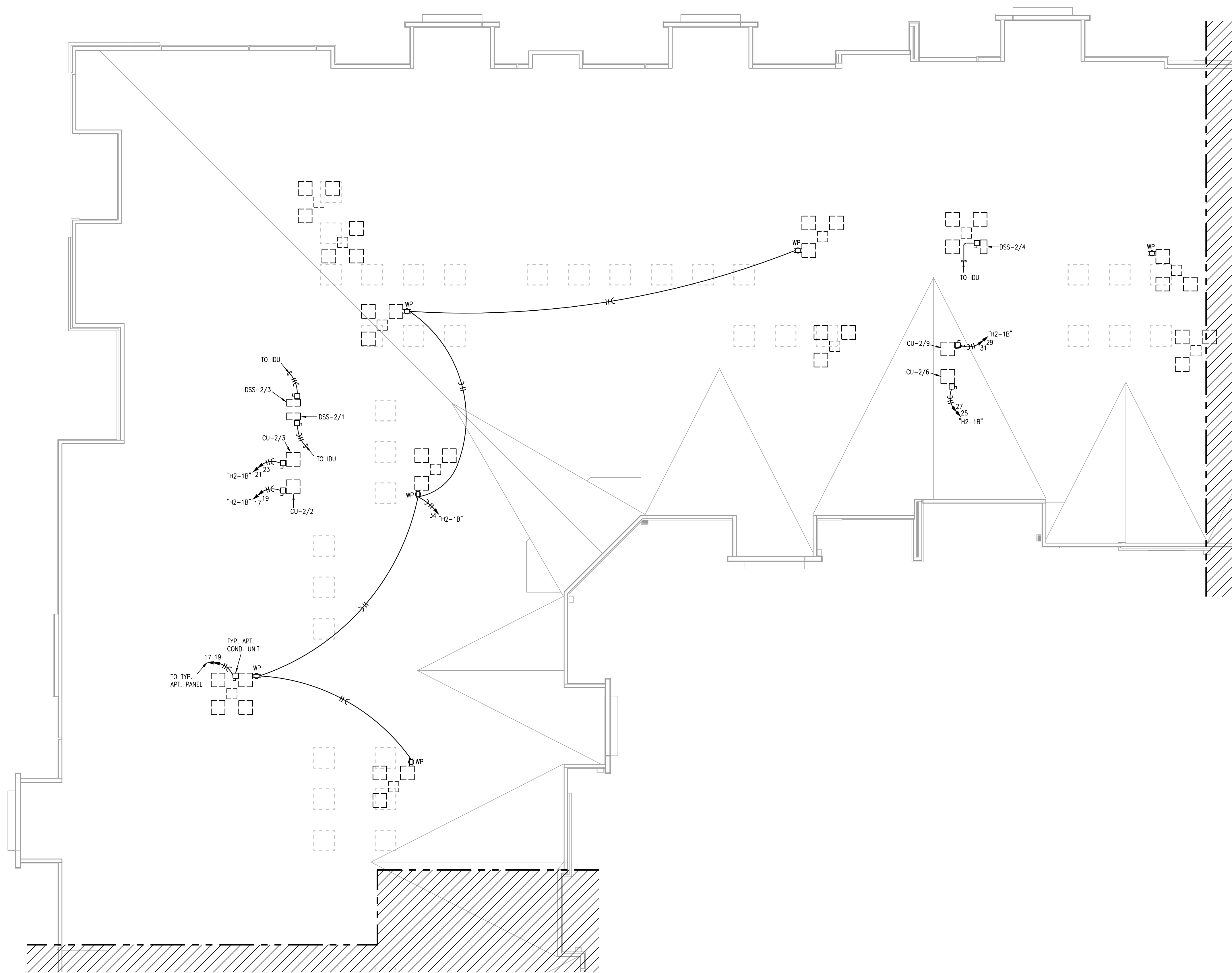
LEGEND:

① TO LIGHTING CONTROL PANEL.



LS&A
Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104008

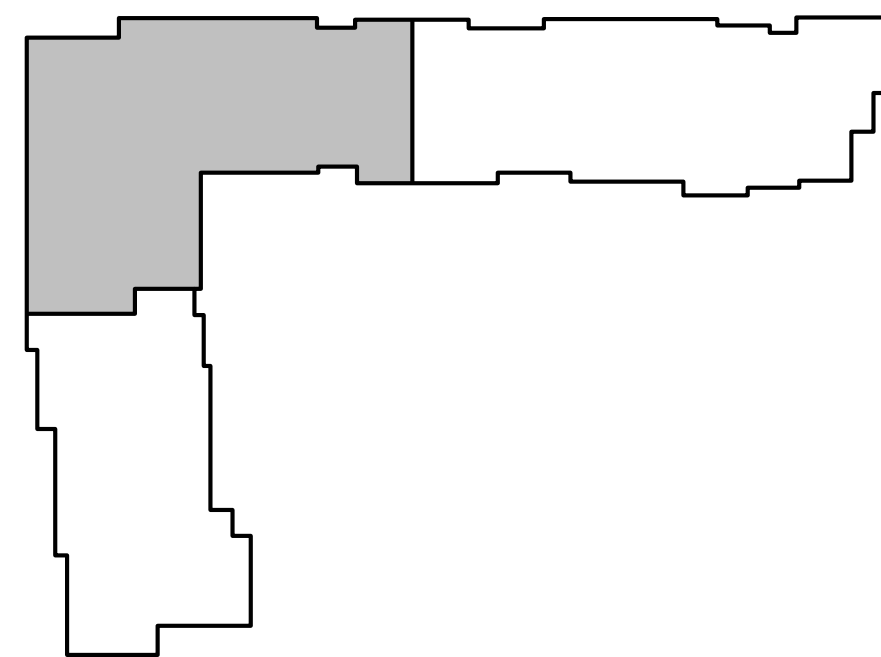




1 BLDG 2-B, PARTIAL ROOF PLAN
1/8"=1'-0" ELECTRICAL

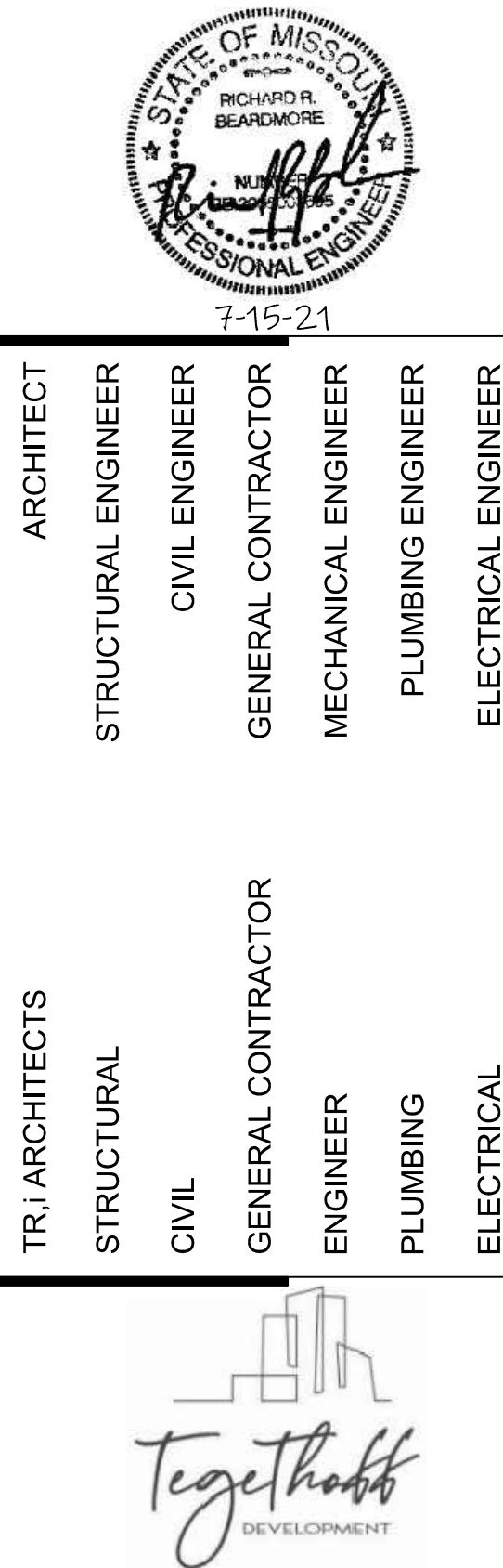
- NOTES:
1. ALL ARE TYPE "A2" UNLESS NOTED OTHERWISE.
 2. ALL STAIR LIGHTS ARE TYPE "A" UNLESS NOTED OTHERWISE.
 3. ALL ARE TYPE "X1" UNLESS NOTED OTHERWISE.
 4. ALL ARE TYPE "X2" UNLESS NOTED OTHERWISE.
 5. ALL ARE TYPE "X5" UNLESS NOTED OTHERWISE.
 6. ALL STAIR LIGHTS ARE TYPE "P" U.N.O.
 7. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
 8. SEE UNIT PLANS FOR FURTHER WORK.
 9. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT.
 10. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
 11. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
 12. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
 13. DENOTES DISTRIBUTION PANEL.

LEGEND:
 TO LIGHTING CONTROL PANEL.



KEY PLAN
NO SCALE

LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsaspa@lsaspa.com
LSA PROJECT NO. 2104008



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DATE: 7.15.2021

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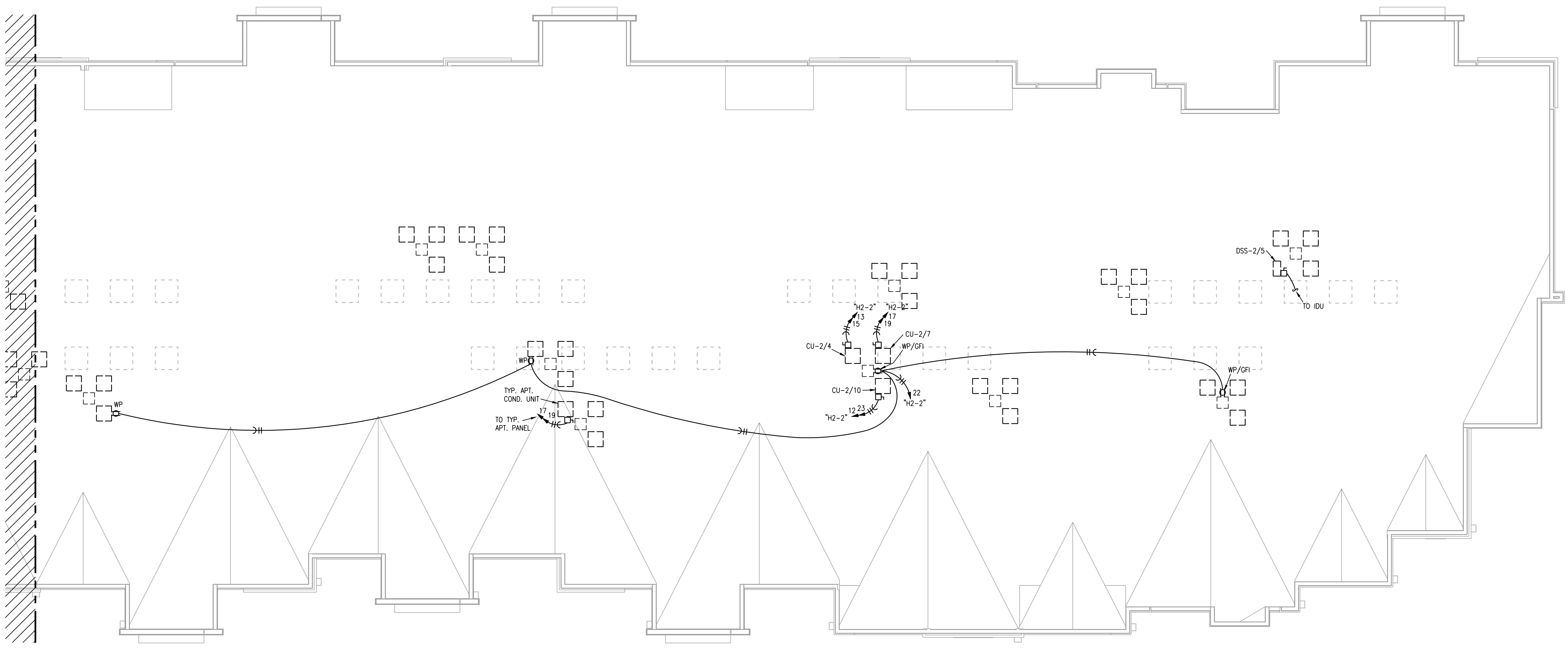
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TR,I PROJECT NO. 20-001

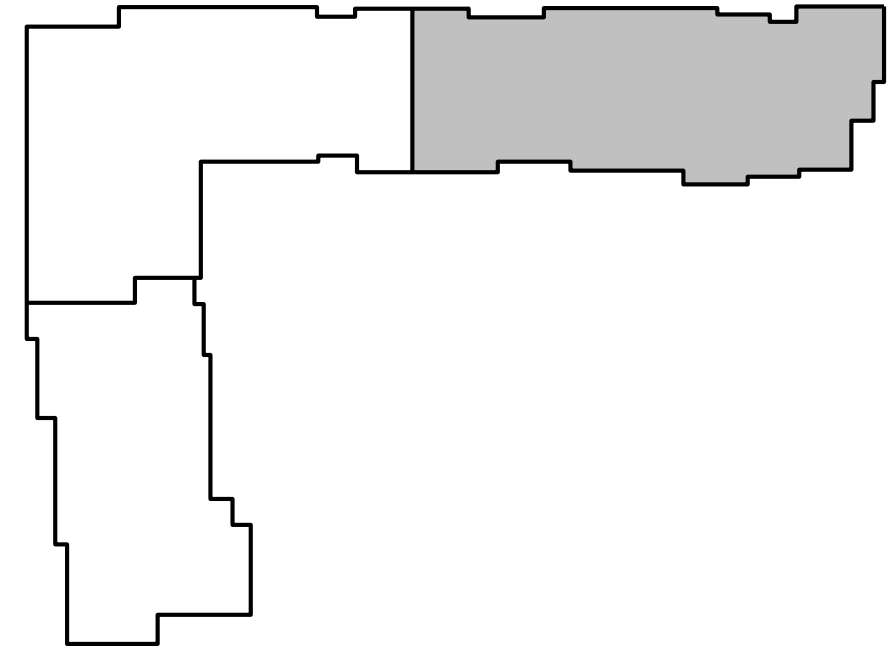
SHEET NO.

E123

BLDG 2-B, PARTIAL ROOF PLAN -
ELECTRICAL



1 BLDG 2-C, PARTIAL ROOF PLAN
1/8"=1'-0"
ELECTRICAL



KEY PLAN
NO SCALE

LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsaa.com
LSA PROJECT NO. 2104008

- NOTES:
1. ALL ARE TYPE "A2" UNLESS NOTED OTHERWISE.
 2. ALL STAIR LIGHTS ARE TYPE "A" UNLESS NOTED OTHERWISE.
 3. ALL ARE TYPE "X1" UNLESS NOTED OTHERWISE.
 4. ALL ARE TYPE "X2" UNLESS NOTED OTHERWISE.
 5. ALL ARE TYPE "X5" UNLESS NOTED OTHERWISE.
 6. ALL STAIR LIGHTS ARE TYPE "P" U.N.O.
 7. CONNECT FIRE/SMOKE DAMPERS SHOWN ON MECHANICAL PLANS TO 120V. AND FIRE ALARM RELAY TO SHUT UPON SMOKE DETECTION IN CORRIDORS.
 8. SEE UNIT PLANS FOR FURTHER WORK.
 9. LIGHTS AT APT. ENTRY DOORS CONNECT TO APT. HOT CIRCUIT.
 10. ALL AHU'S HAVE AUTO DAMPER/THERMOSTAT SYSTEM TO WIRE. SEE HVAC PLANS.
 11. EXIT SIGNS SHALL BE READILY VISIBLE TO OCCUPANTS.
 12. EXTERIOR LIGHTING TO BE ROUTED THRU PHOTOCELL.
 13. DENOTES DISTRIBUTION PANEL.
- LEGEND:
- TO LIGHTING CONTROL PANEL.

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LEE'S SUMMIT, MISSOURI 64081

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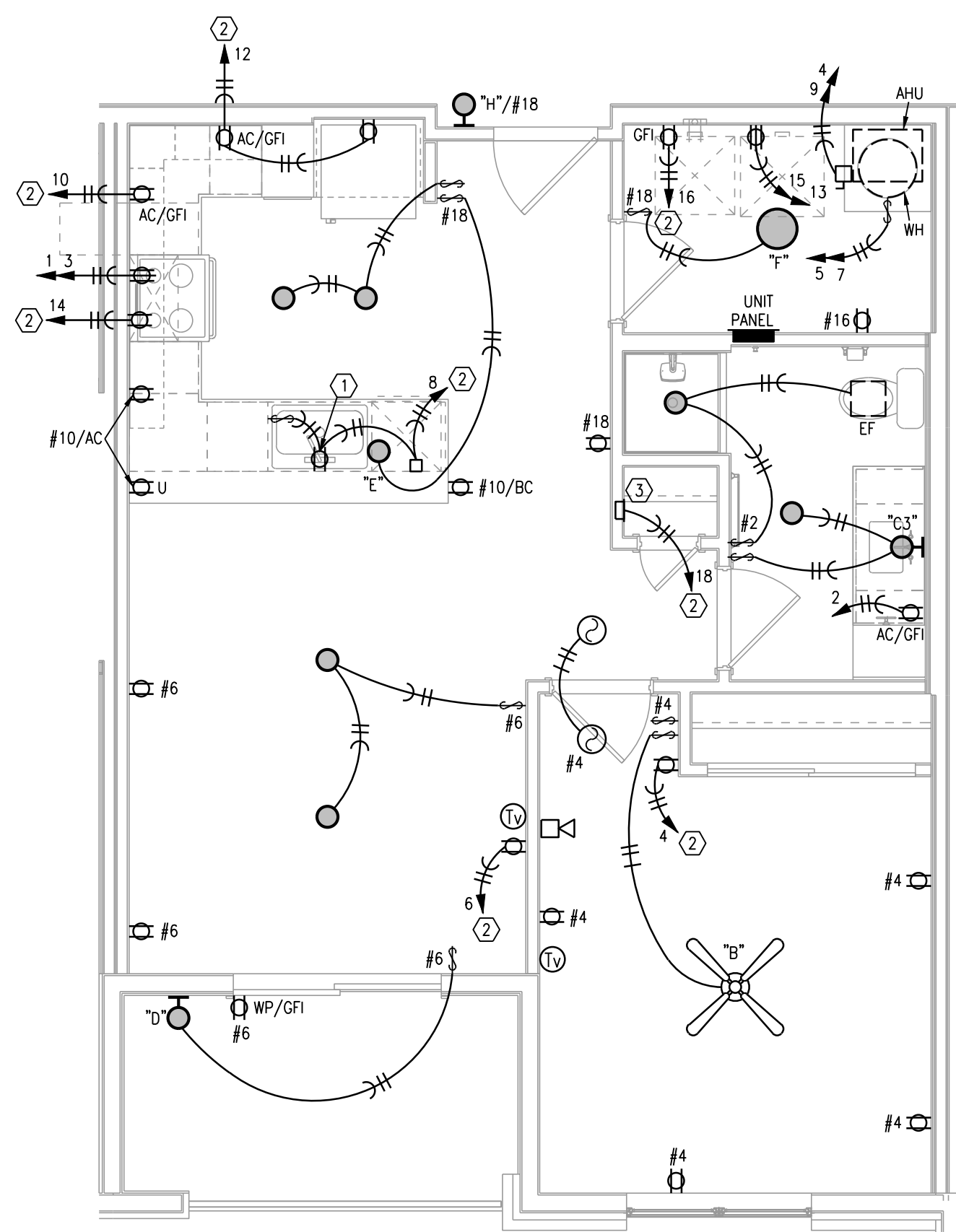
DATE: 7.15.2021

REVISIONS

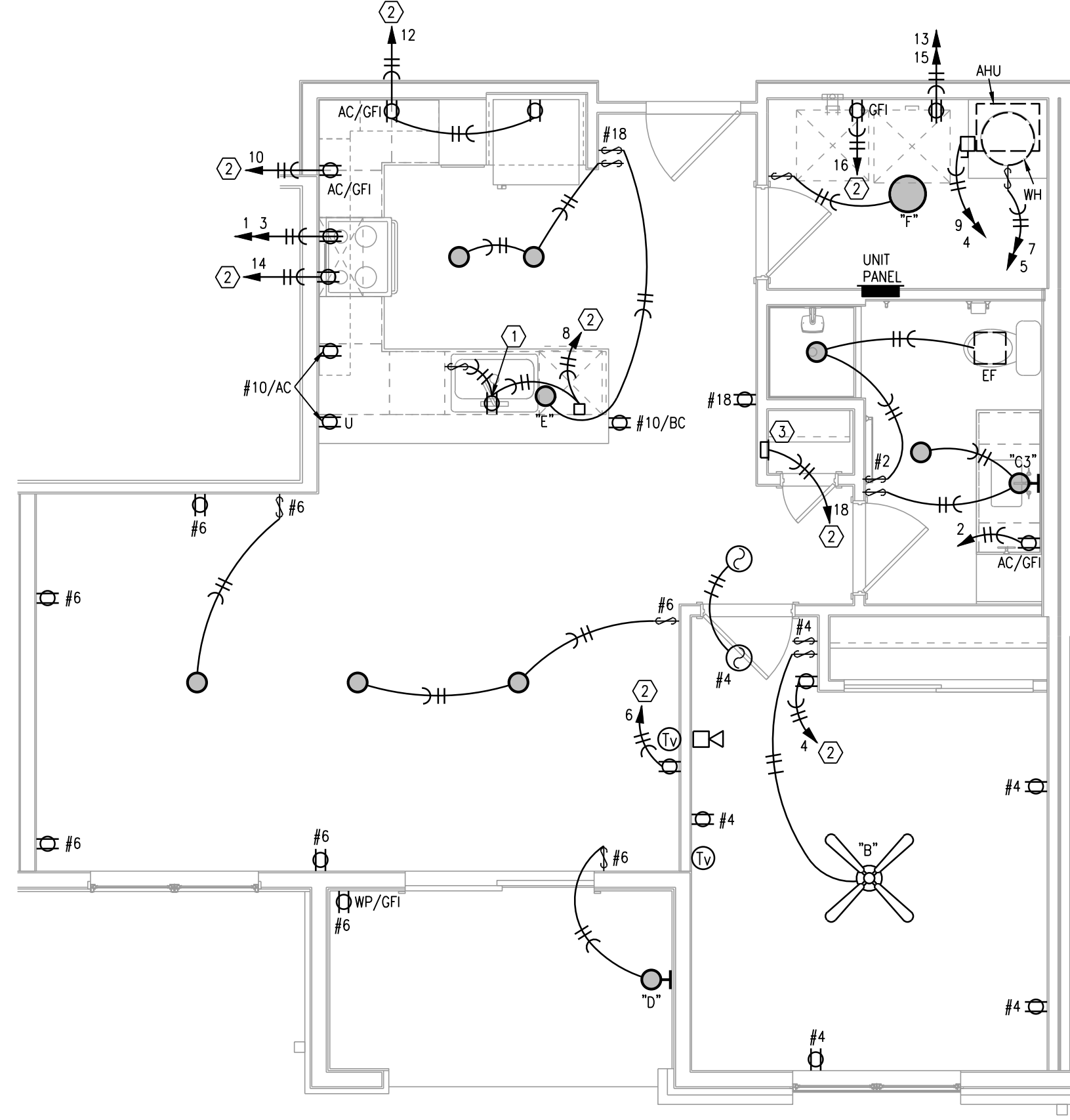
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TR,I PROJECT NO. 20-001
SHEET NO.

E124
BLDG 2-C, PARTIAL ROOF PLAN -
ELECTRICAL

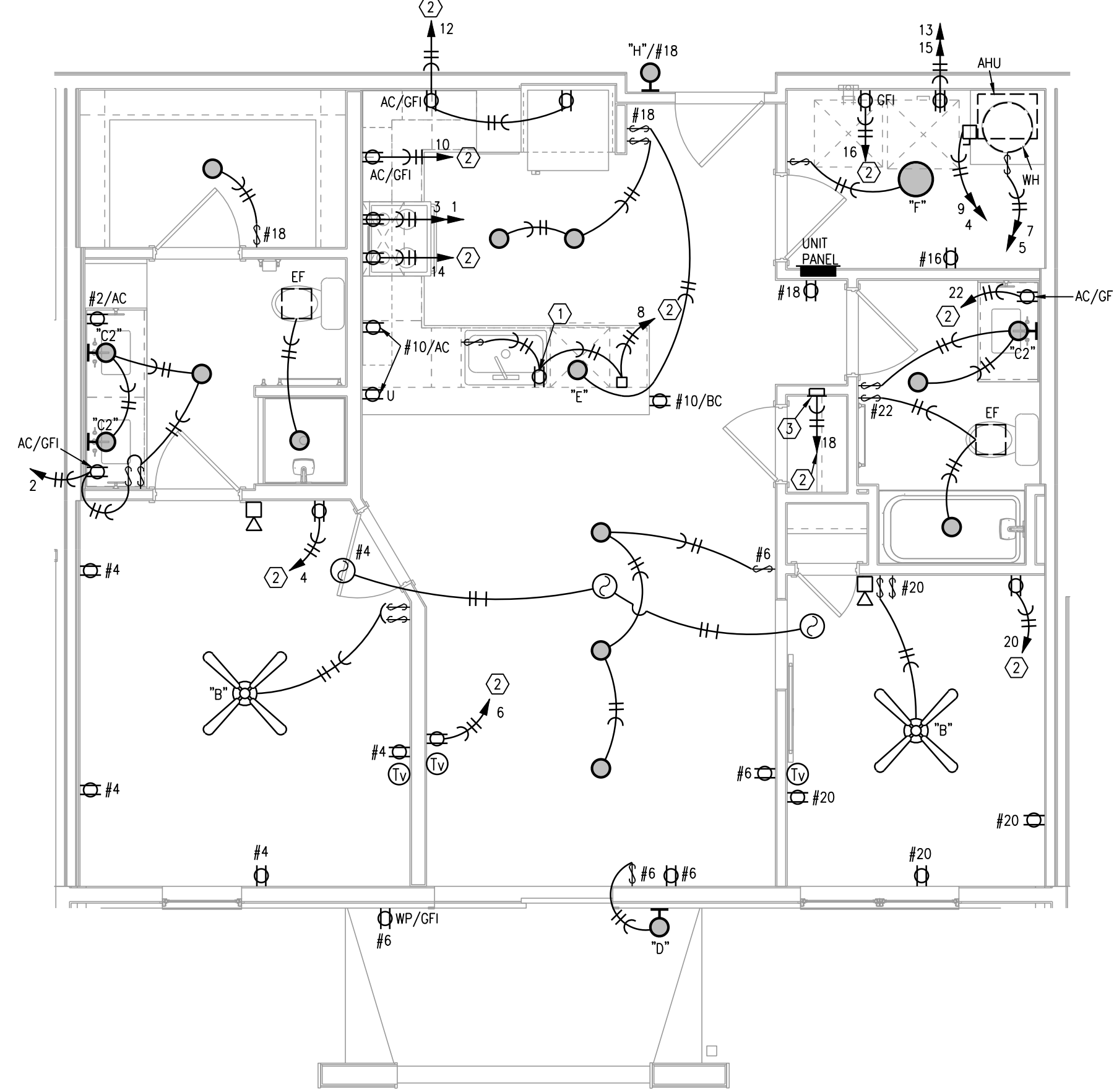
NOTES:
SEE INTERIORS CEILING PLANS FOR LIGHTING PLACEMENT.



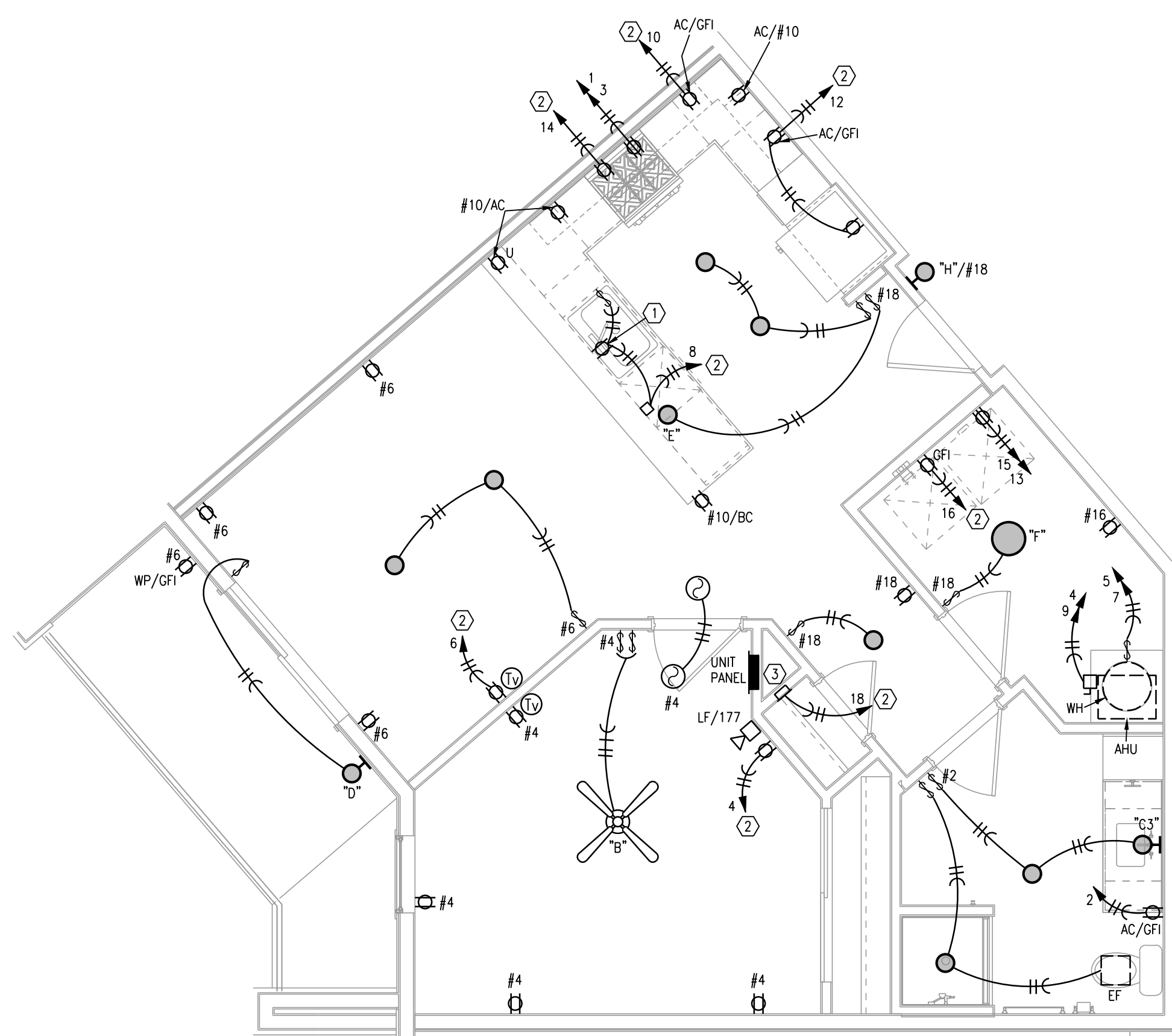
1 TYPICAL UNIT PLAN - A1
1/4"=1'-0"
(UNITS A1-1, A1-2 SIMILAR)
ELECTRICAL



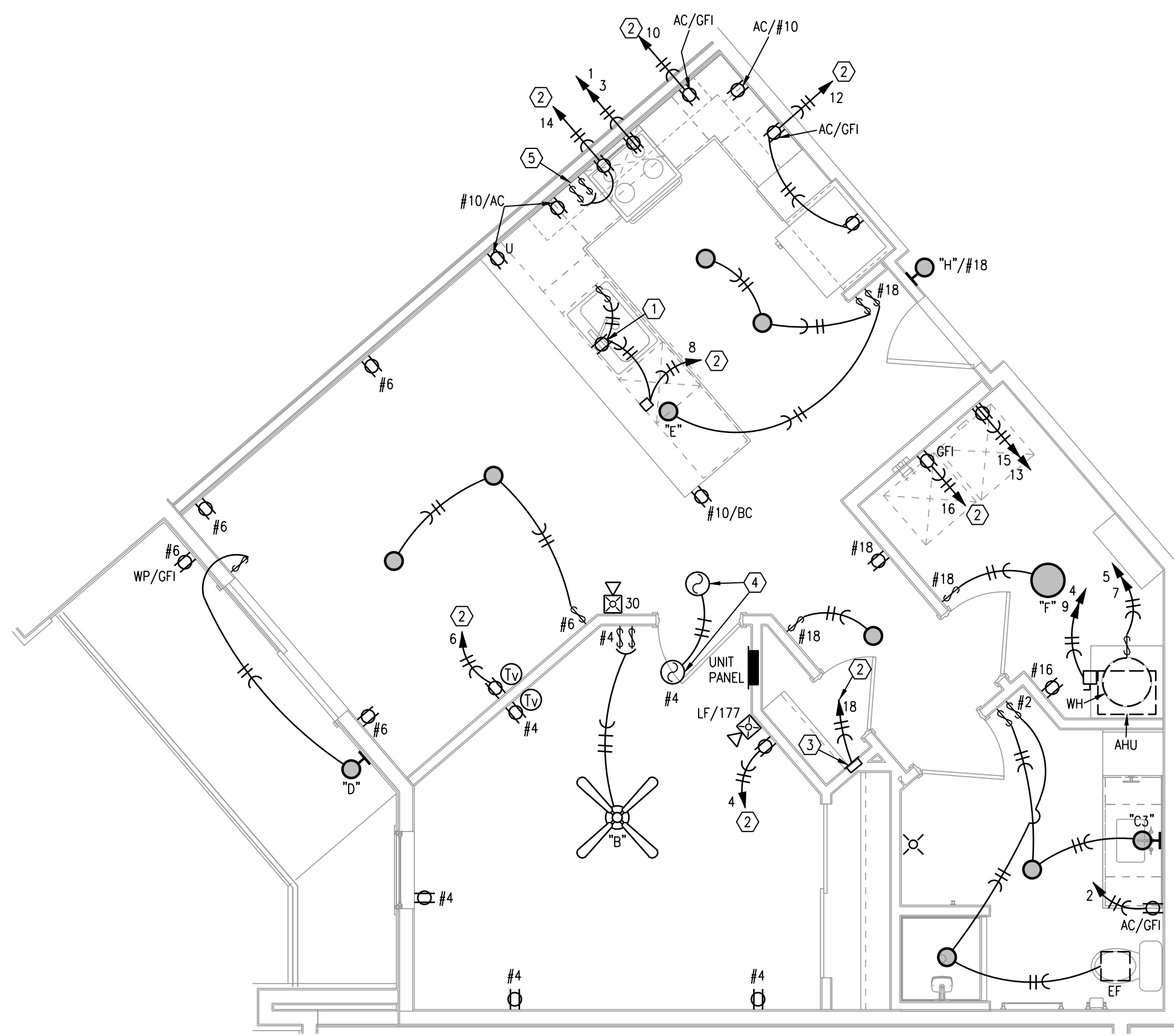
2 TYPICAL UNIT PLAN - A2
1/4"=1'-0"
ELECTRICAL



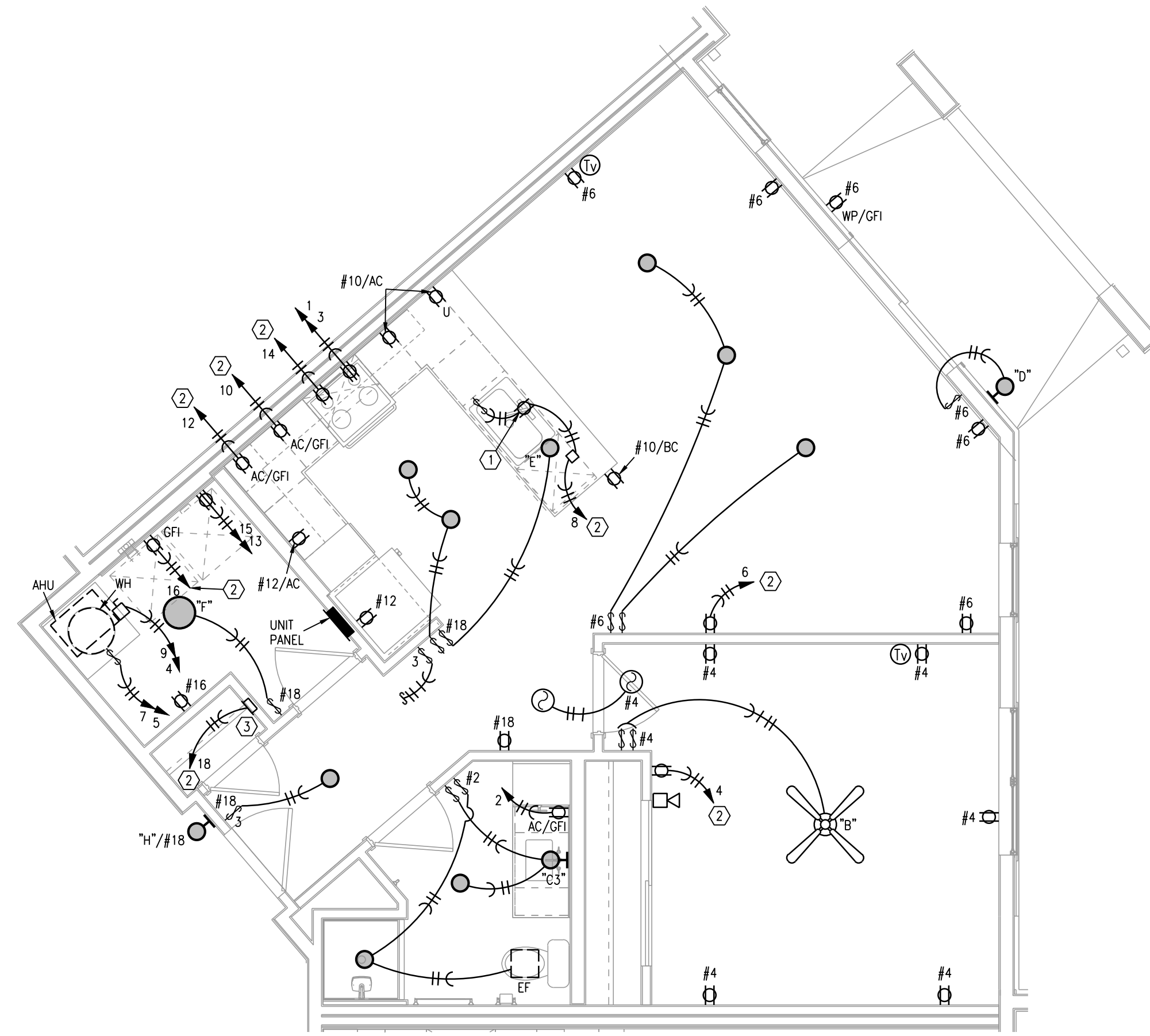
3 TYPICAL UNIT PLAN - A3
1/4"=1'-0"
ELECTRICAL



4 TYPICAL UNIT PLAN - A4
1/4"=1'-0"
ELECTRICAL



5 TYPICAL UNIT PLAN - A4 TYPE A
1/4"=1'-0"
ELECTRICAL



6 TYPICAL UNIT PLAN - A5
1/4"=1'-0"
ELECTRICAL

- NOTES:
1. ENTRY FIXTURE IN HALLWAYS ARE WIRED TO UNIT CIRCUIT. MOUNT AT 72" AFF. VERIFY WITH ARCHITECT.
 2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 3. CENTER ISLAND/PENINSULA PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY. LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 4. 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.
 5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 6. $\odot$ = 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, COMPACT AND STANDARD FLUORESCENT LAMPS/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 ANNUAL SPACE NOT EXCEED 1/8".
 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 & (1) #10 AND 50A. RECEPTACLE.
 11. ALL WATER HEATERS SERVED BY (3) #10
 12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 14. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
 15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
 16. EXTERIOR RECEPTACLES SHALL BE ARLINGTON #DBVM1C RECESSED TYPE.
 17. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONS & SCHEDULE.
 18. MOUNT TOP BREAKER IN UNIT PANELS AT 48".

- LEGEND:
- 1 SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER.
 - 2 PROVIDE ARC-FAULT CIRCUIT BREAKER IN PANEL.
 - 3 TELE/TV DEMARK FLUSH BOX. PROVIDE WITH DUPLEX OUTLET. PROVIDE 1" CONDUIT FROM BOX TO ABOVE CEILING AND OUT TO CEILING IN THE HALLWAY. SEE DETAILS.
 - 4 SMOKE ALARM TO HAVE STROBES.
 - 5 CONNECT RANGE HOOD TO TWO SWITCHES ABOVE COUNTER TO CONTROL LIGHT AND FAN.

- ELECTRICAL SYMBOLS LEGEND:
- $\square$ DUPLEX RECEPTACLE.
 - $\square$ 120/240V. RECEPTACLE. 30A. FOR DRYER, 50A. FOR RANGE.
 - $\square$ RECEPTACLE HALF SWITCHED.
 - $\square$ USB CHARGING COMB. RECEPTACLE.
 - ∇ DATA OUTLET.
 - $\square$ COMBINATION CATV/DATA OUTLET.
 - AC ABOVE COUNTER
 - BC BELOW COUNTER
 - $\square$ LOW FREQUENCY HORN
 - $\circ$ TYPE "A" FIXTURE



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St. Louis, Missouri 63144
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DATE: 7.15.2021

REVISIONS

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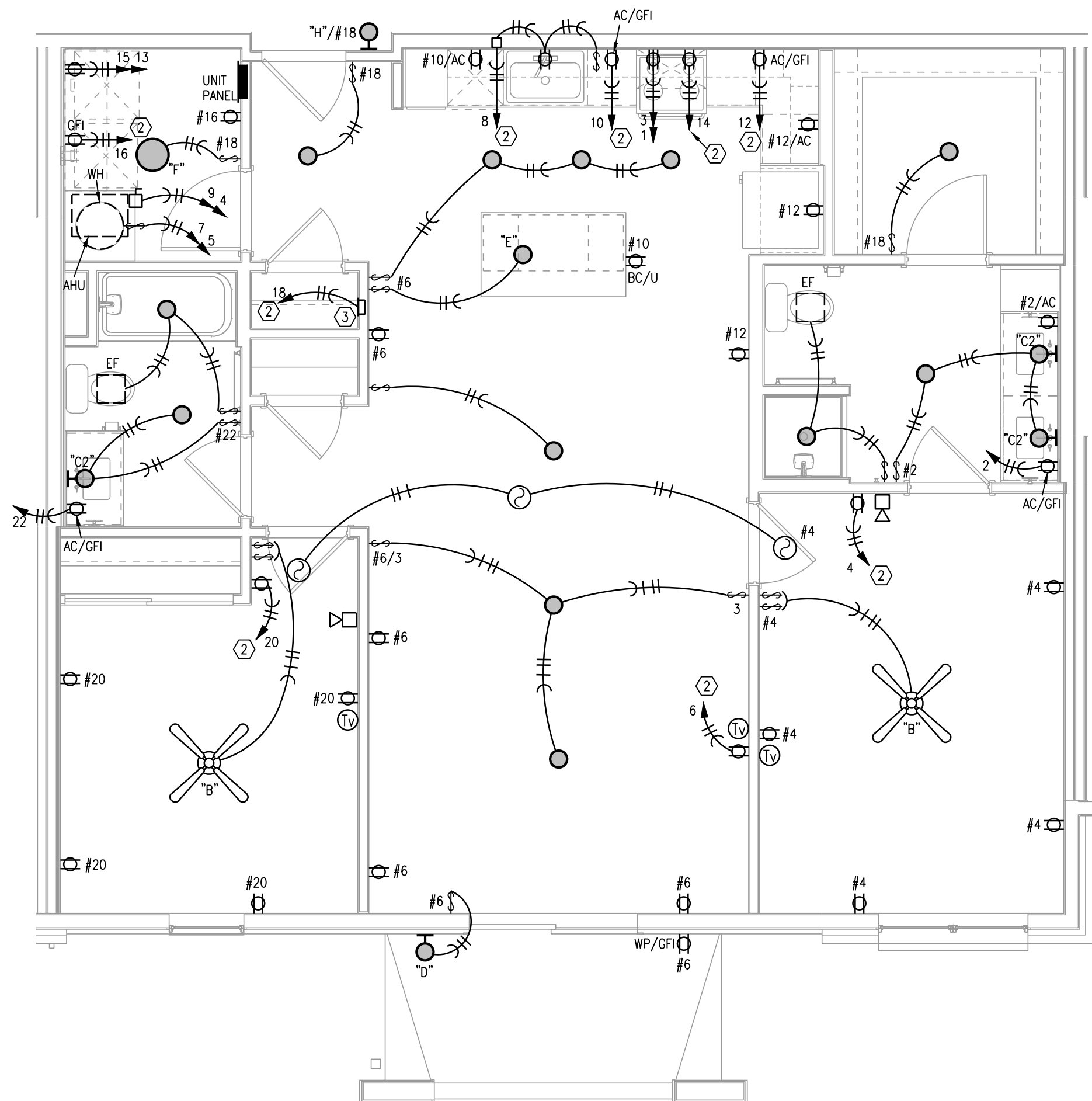
E201

TYPICAL UNIT PLANS - ELECTRICAL

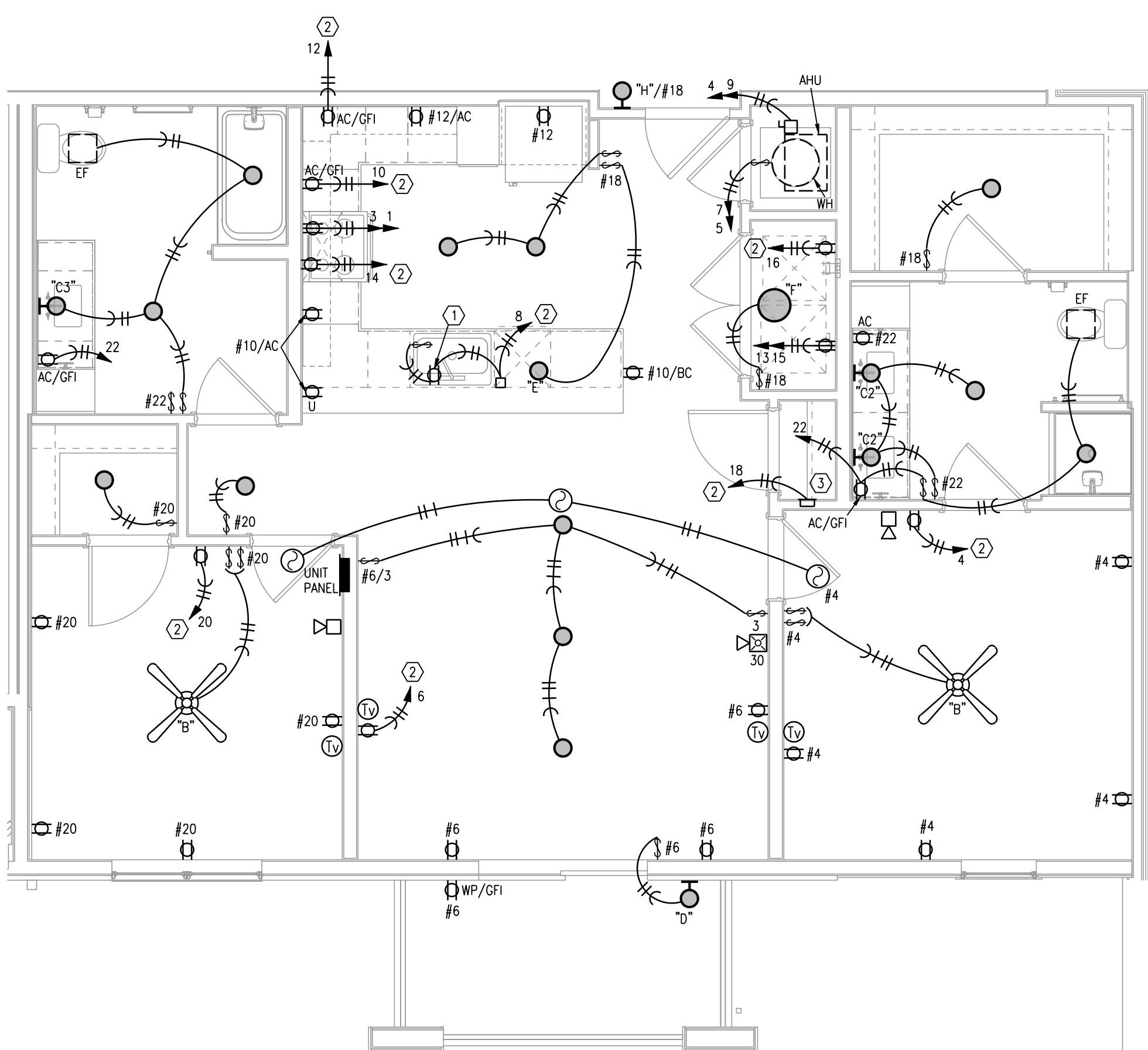


3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
Fax: (785) 233-0647
Email: lesp@lsaa.com
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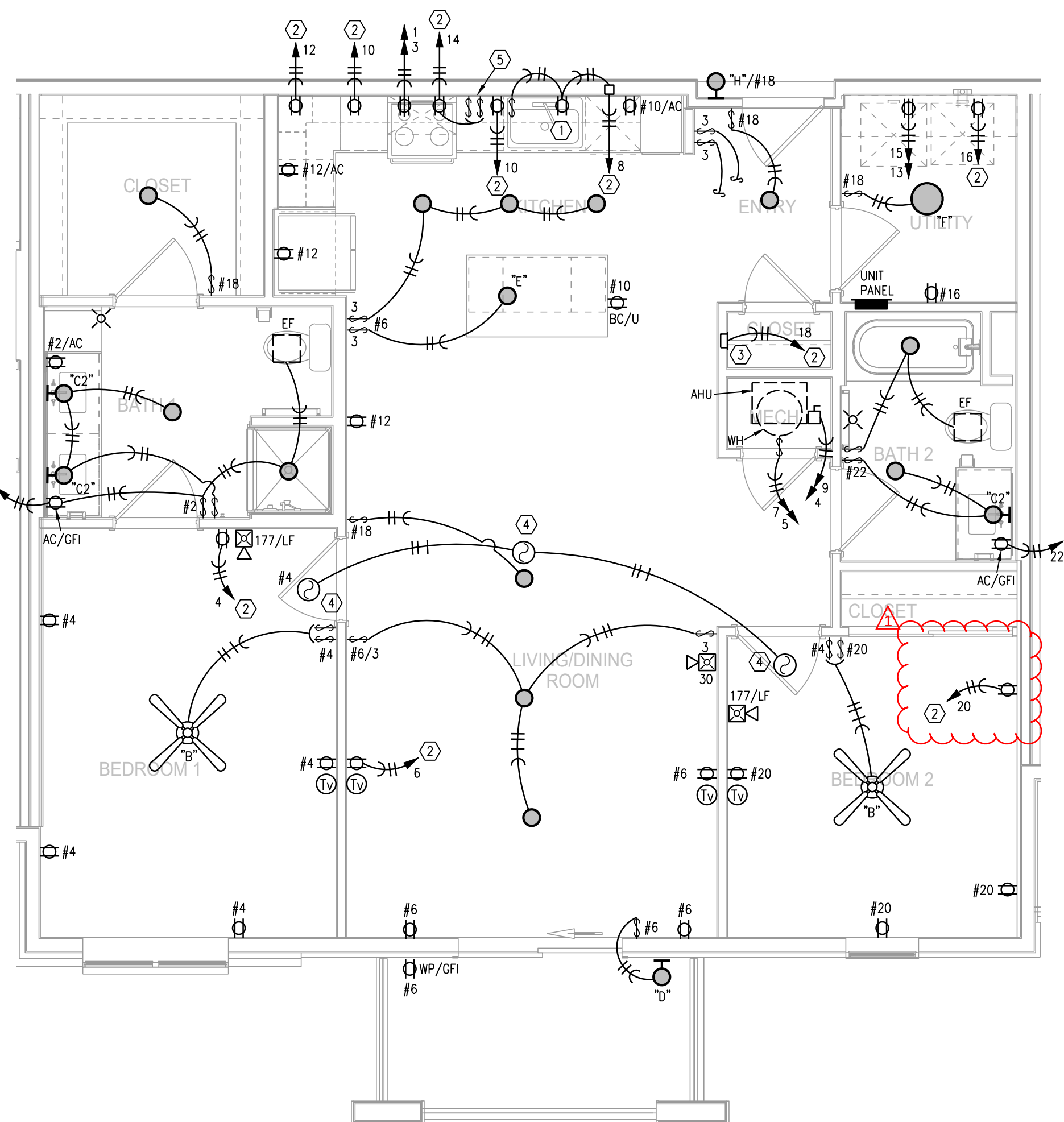
NOTES:
SEE INTERIORS CEILING PLANS FOR LIGHTING PLACEMENT.



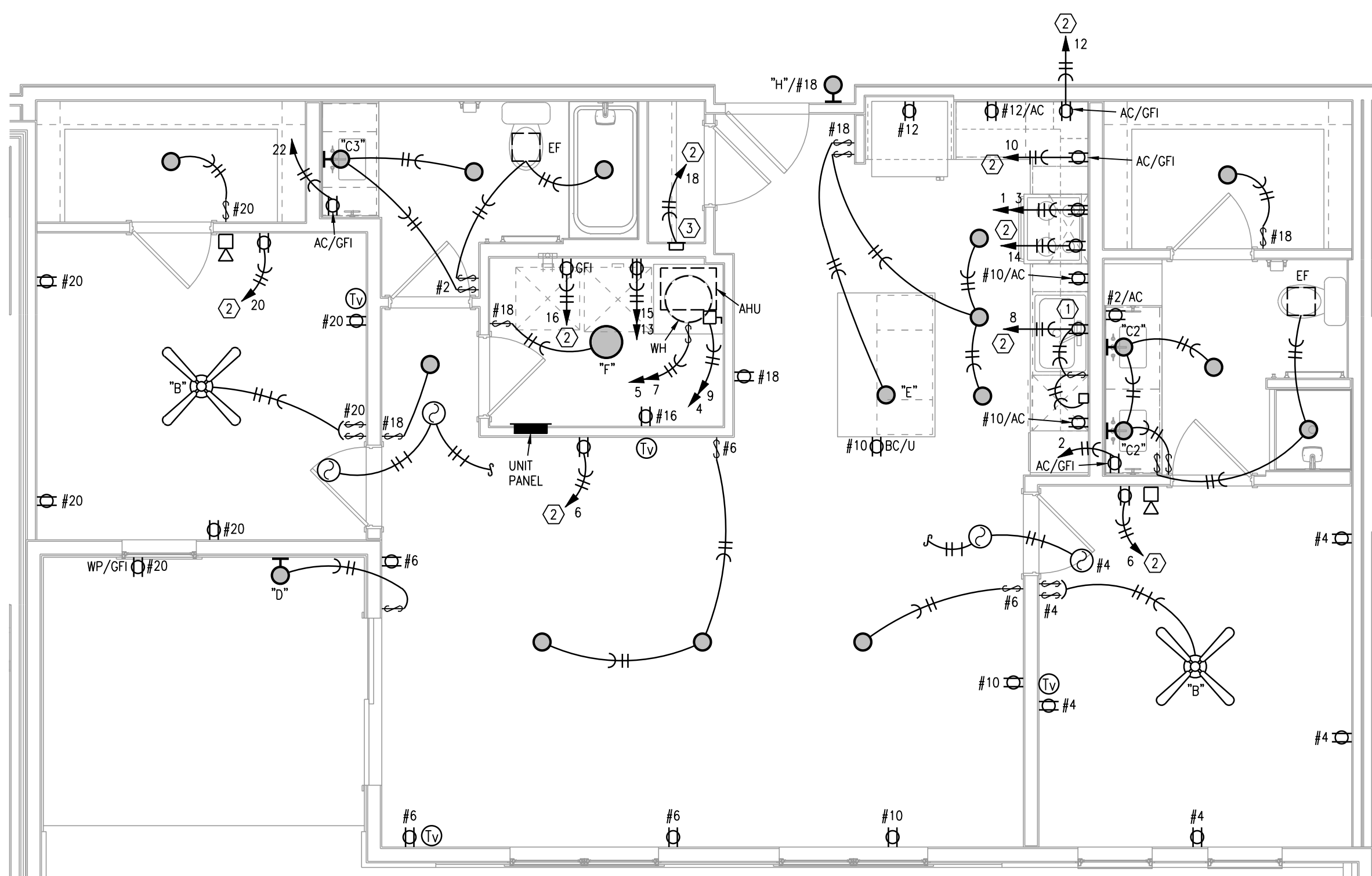
1 TYPICAL UNIT PLAN - B1
1/4"=1'-0" (UNITS B1-1, B1-2, B1-3 SIMILAR) ELECTRICAL



3 TYPICAL UNIT PLAN - B2
1/4"=1'-0" (UNITS B2-TYPE A, B2-TYPE B SIMILAR) ELECTRICAL



2 TYPICAL UNIT PLAN - B1 TYPE A
1/4"=1'-0" ELECTRICAL



4 TYPICAL UNIT PLAN - B3
1/4"=1'-0" (UNIT B3-1 SIMILAR) ELECTRICAL

- NOTES:
1. ENTRY FIXTURE IN HALLWAYS ARE WIRED TO UNIT CIRCUIT. MOUNT AT 72" AFF. VERIFY WITH ARCHITECT.
 2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 3. CENTER ISLAND/PENINSULA PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY. LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 4. 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.
 5. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
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 7. ALL ARC-FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT LAMPS/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".
 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 & (1) #10 AND 50A. RECEPTACLE.
 11. ALL WATER HEATERS SERVED BY (3) #10
 12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
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 16. EXTERIOR RECEPTACLES SHALL BE ARLINGTON #DBVM1C RECESSED TYPE.
 17. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONS & SCHEDULE.
 18. MOUNT TOP BREAKER IN UNIT PANELS AT 48".

- LEGEND:
- ① SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER.
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 - ③ TELE/TV DEMARK FLUSH BOX. PROVIDE WITH DUPLEX OUTLET. PROVIDE 1" CONDUIT FROM BOX TO ABOVE CEILING AND OUT TO CEILING IN THE HALLWAY. SEE DETAILS.
 - ④ SMOKE ALARM TO HAVE STROBES.
 - ⑤ CONNECT RANGE HOOD TO TWO SWITCHES ABOVE COUNTER TO CONTROL LIGHT AND FAN.

- ELECTRICAL SYMBOLS LEGEND:
- Ⓛ DUPLEX RECEPTACLE.
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 - Ⓛ RECEPTACLE HALF SWITCHED.
 - Ⓛ USB CHARGING COMB. RECEPTACLE.
 - ▼ DATA OUTLET.
 - Ⓛ COMBINATION CATV/DATA OUTLET.
 - AC ABOVE COUNTER
 - BC BELOW COUNTER
 - Ⓛ LOW FREQUENCY HORN
 - TYPE "A" FIXTURE



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LEE'S SUMMIT, MISSOURI 64081



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St. Louis, Missouri 63144
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DATE: 7.15.2021

REVISIONS 1

△ PERMIT REVIEW COMMENTS 08-17-21

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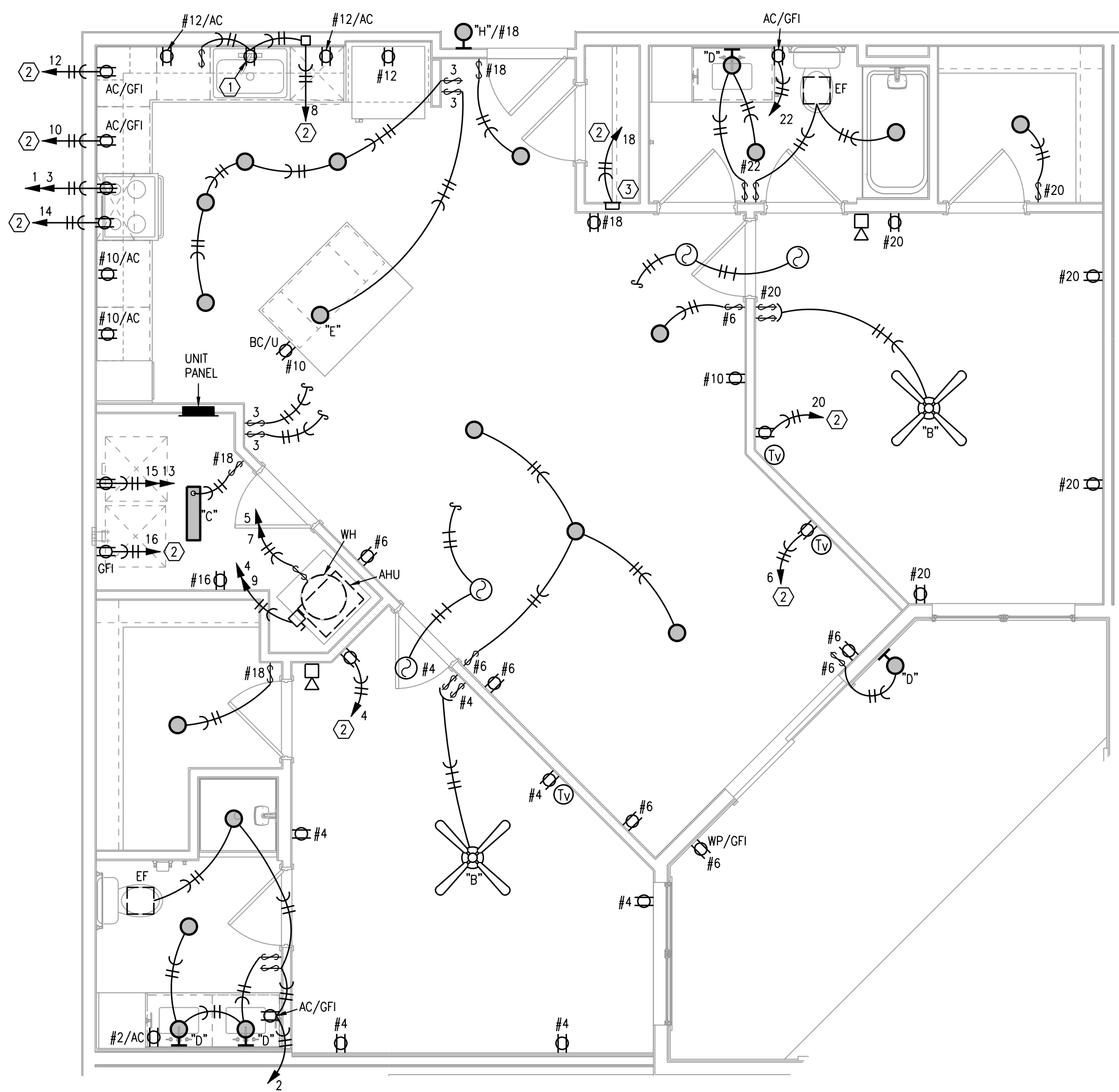
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E202

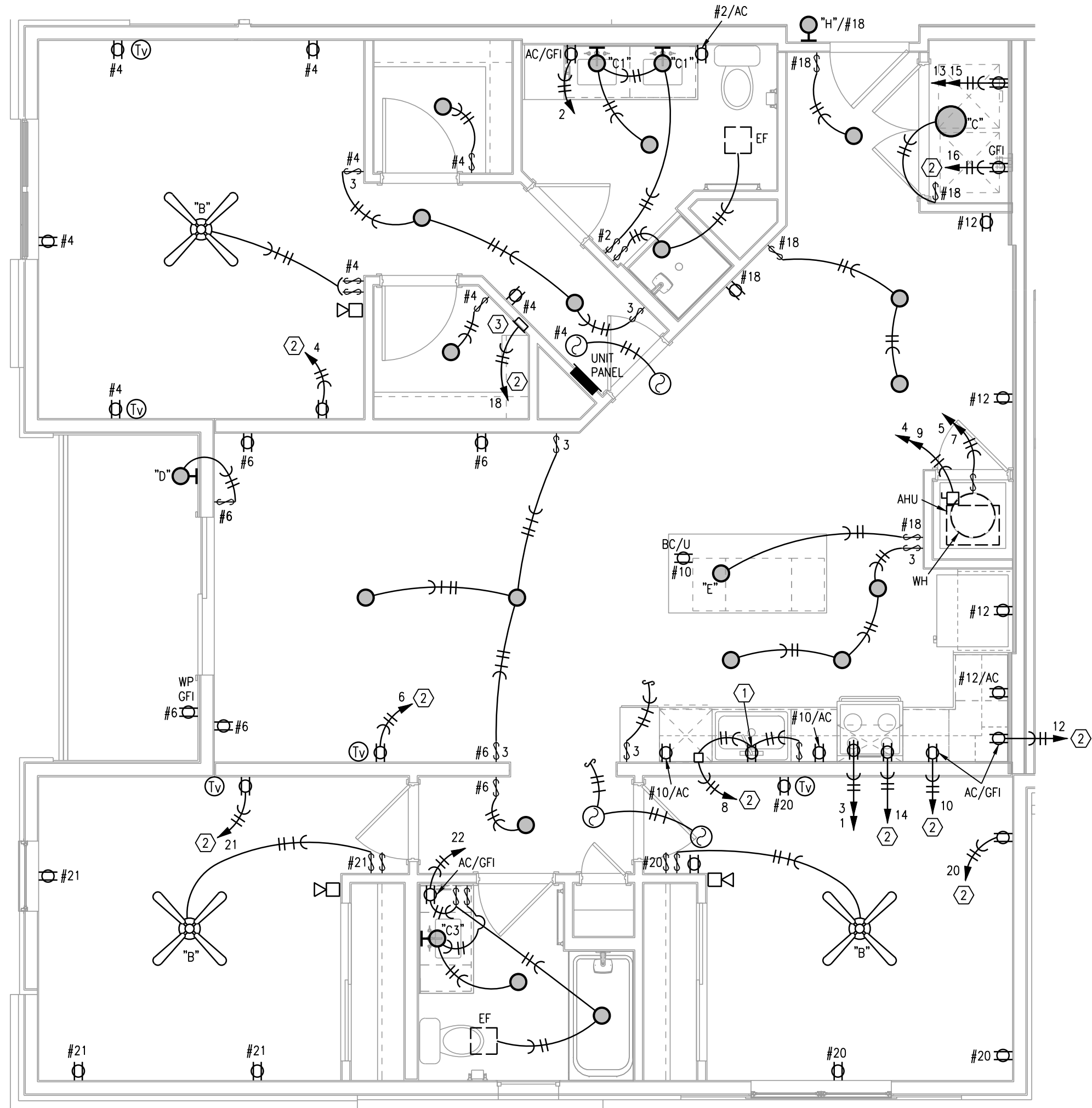
TYPICAL UNIT PLANS - ELECTRICAL



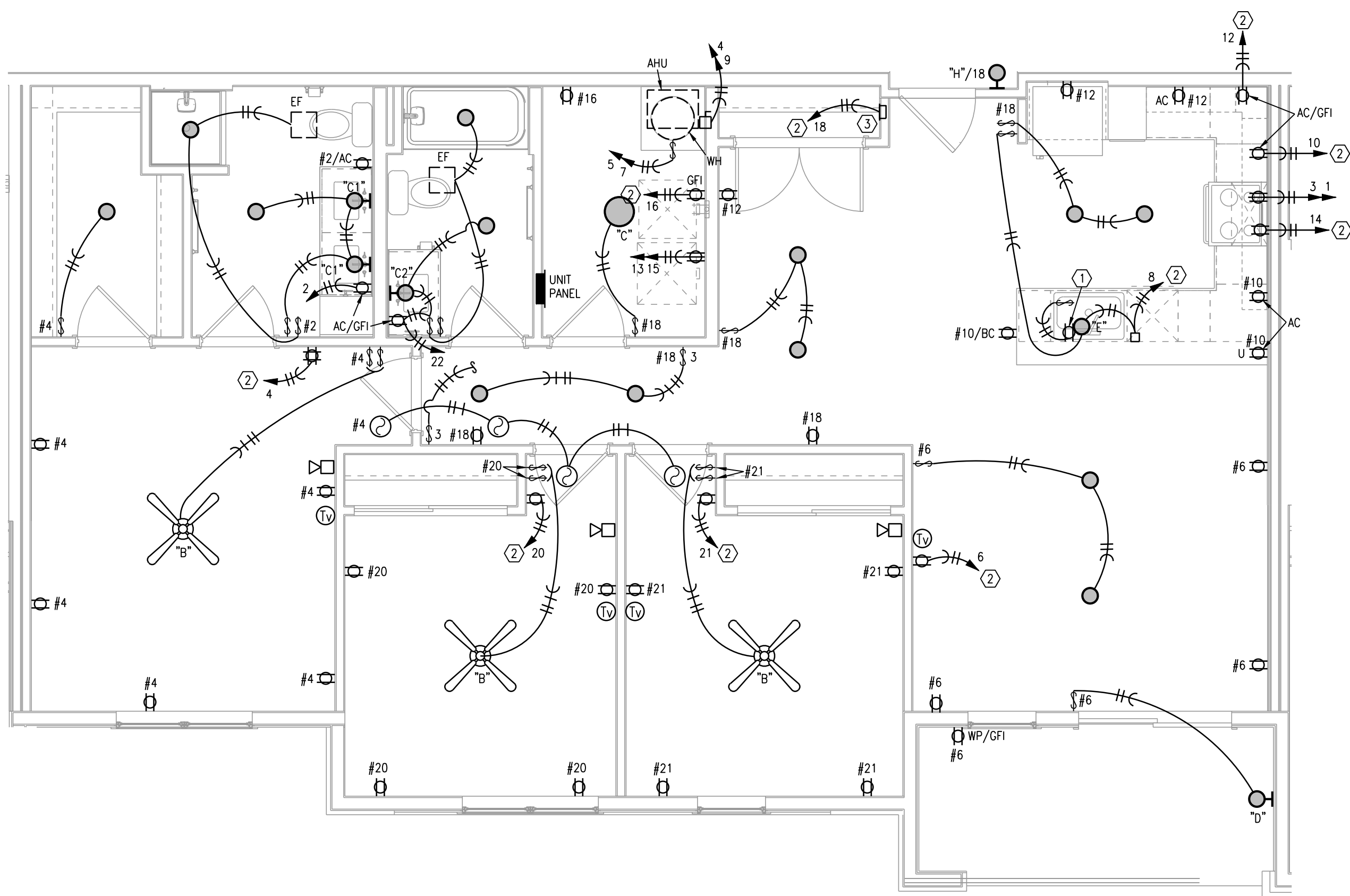
NOTES:
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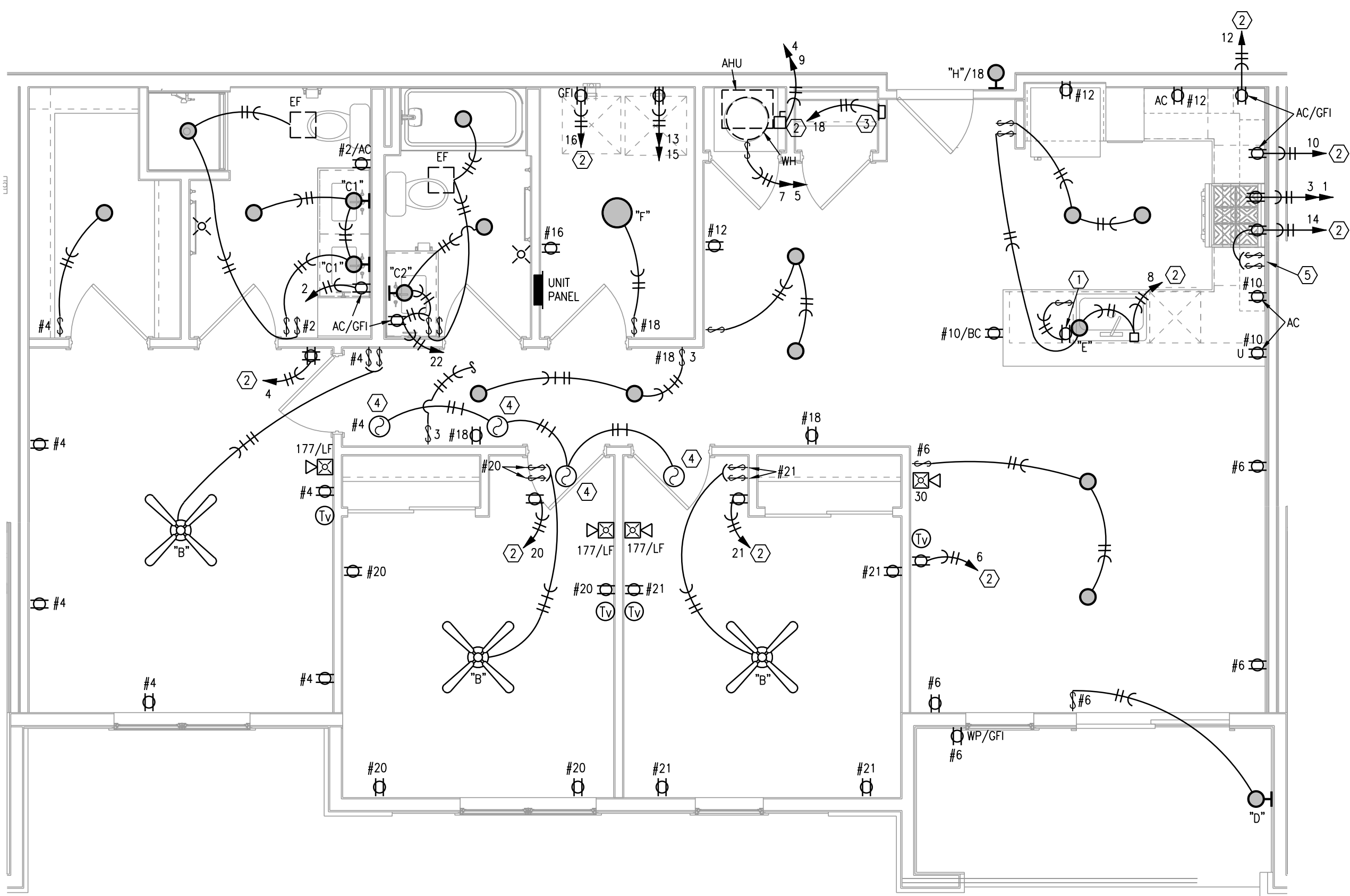
1 TYPICAL UNIT PLAN - B4
1/4"=1'-0" ELECTRICAL



2 TYPICAL UNIT PLAN - C1
1/4"=1'-0" (UNIT C1-1 SIMILAR) ELECTRICAL



3 TYPICAL UNIT PLAN - C2
1/4"=1'-0" (UNIT C2-1 SIMILAR) ELECTRICAL



4 TYPICAL UNIT PLAN - C2 TYPE A
1/4"=1'-0" ELECTRICAL

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1. ENTRY FIXTURE IN HALLWAYS ARE WIRED TO UNIT CIRCUIT. MOUNT AT 72" AFF. VERIFY WITH ARCHITECT.
 2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 3. CENTER ISLAND/PENINSULA PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY. LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
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 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 & (1) #10 AND 50A. RECEPTACLE.
 11. ALL WATER HEATERS SERVED BY (3) #10
 12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 14. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
 15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
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 18. MOUNT TOP BREAKER IN UNIT PANELS AT 48".

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- $\square$ DUPLEX RECEPTACLE.
 - Φ 120/240V. RECEPTACLE. 30A. FOR DRYER, 50A. FOR RANGE.
 - Φ_{SW} RECEPTACLE HALF SWITCHED.
 - Φ_U USB CHARGING COMB. RECEPTACLE.
 - ∇ DATA OUTLET.
 - $\Phi_{U/D}$ COMBINATION CATV/DATA OUTLET.
 - AC ABOVE COUNTER
 - BC BELOW COUNTER
 - $\square$ LOW FREQUENCY HORN
 - $\circ$ TYPE "A" FIXTURE



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The Signature at West Pryor

2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



181 Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63144
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T: 314-385-9750
www.triarchitects.com

DATE: 7.15.2021

REVISIONS

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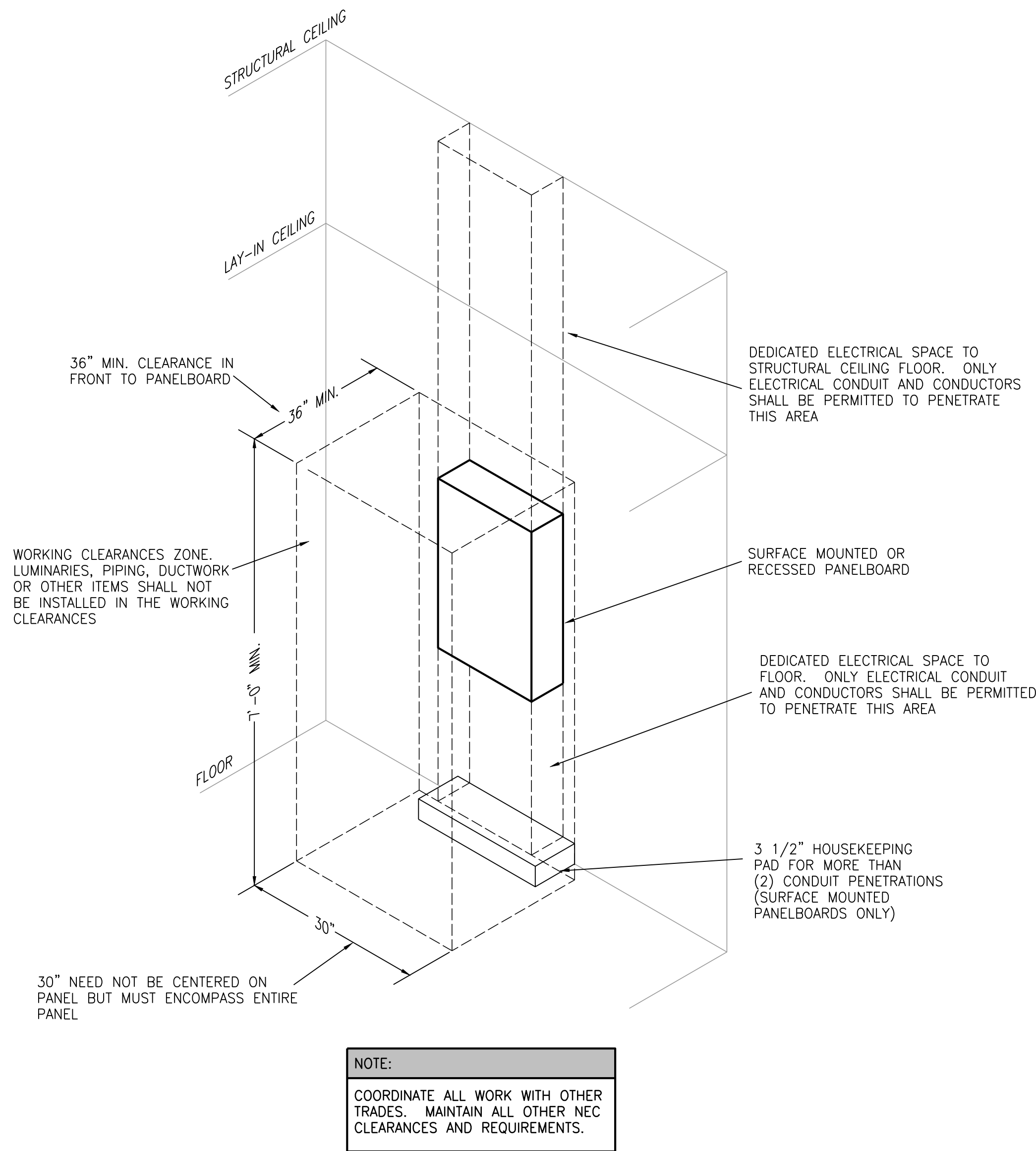
TR,I PROJECT NO. 20-001

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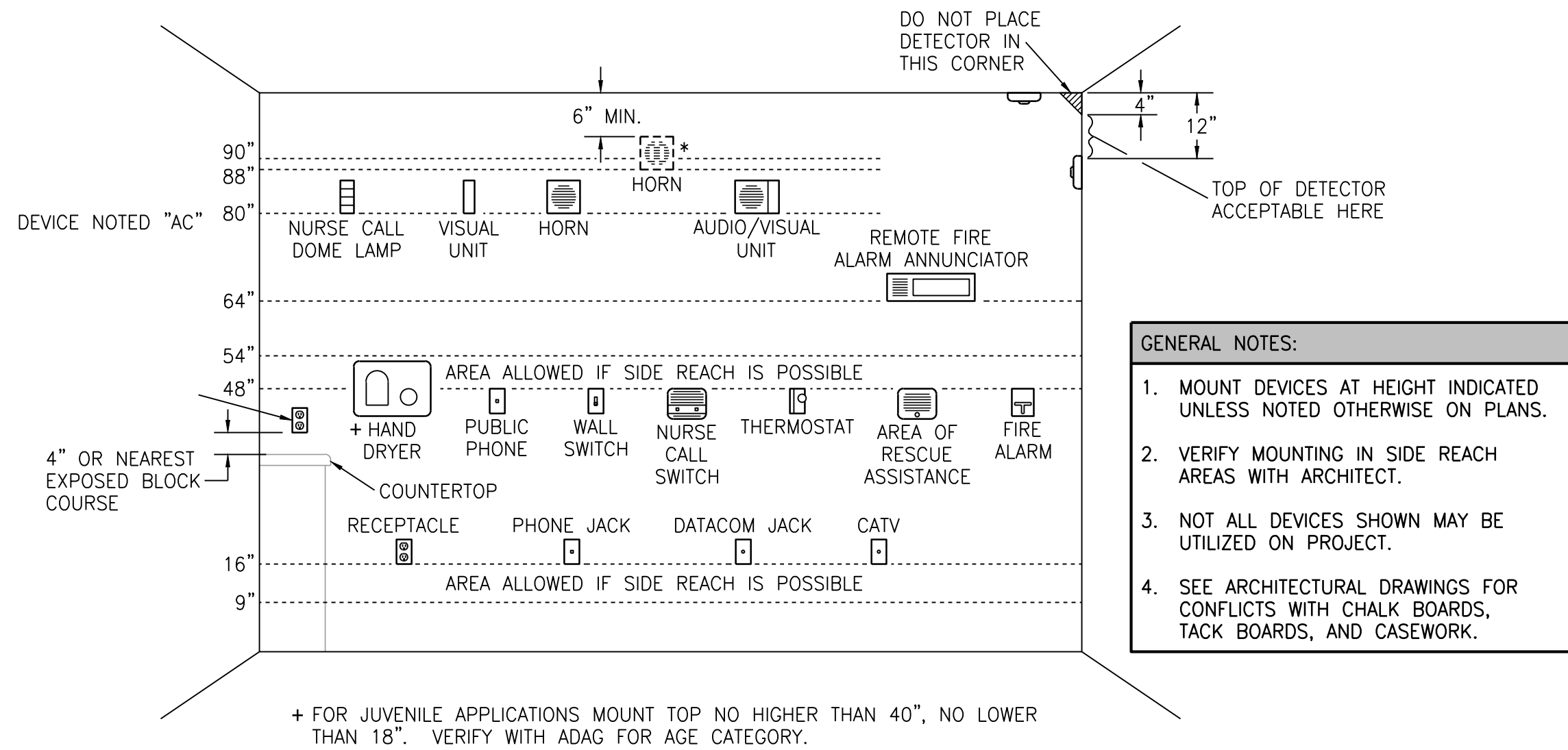
E203

TYPICAL UNIT PLANS - ELECTRICAL





1 **TYPICAL PANELBOARD INSTALLATION DETAIL**
NO SCALE



2 **ELECTRICAL DEVICE MOUNTING HEIGHTS**
NO SCALE

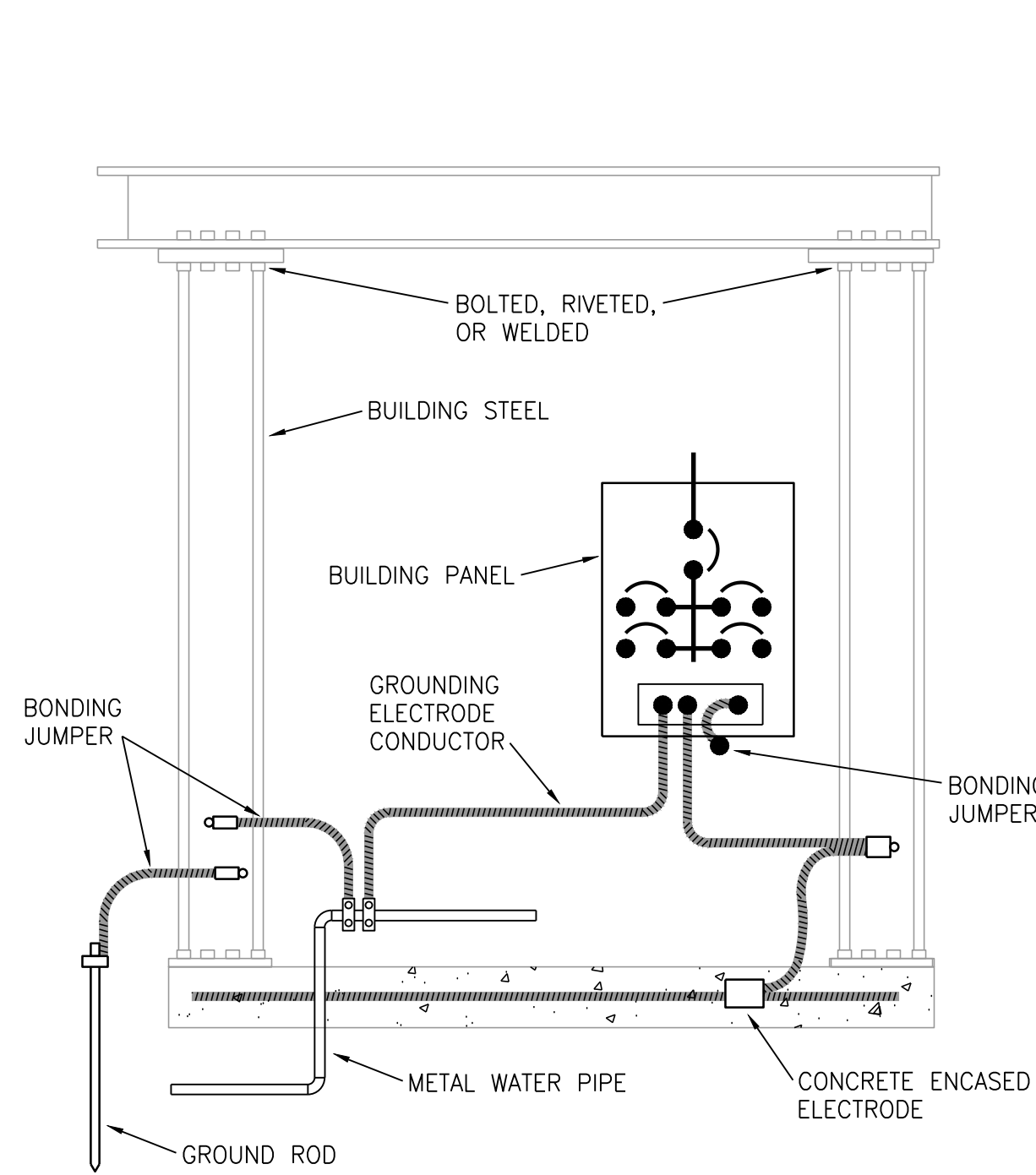
SECURITY SYMBOLS LEGEND	
[ACS]	ACCESS CONTROL SERVER
[ACWS]	ACCESS CONTROL WORK STATION
[CAM]	CAMERA WITH AUTO IRIS
[CAM-F]	CAMERA WITH FIXED IRIS
[CR]	CARD READER
[CVP]	COVE PANEL
[CVM]	COVE MASTER PANEL
[DPC]	DOOR POSITION CONTACT
[DS]	DURESS SWITCH
[ES]	ELECTRIC STRIKE
[GBD]	GLASS BREAK DETECTOR
[ISC]	INTELLIGENT SYSTEM CONTROLLER
[KBP]	KEY PAD
[KPD]	KEY BOARD
[ML]	MAG LOCK
[MD]	CAMERA WITH MOTION DETECTOR
[M]	MONITOR
[MD]	MOTION DETECTOR
[PTZ]	PAN, TILT, ZOOM CAMERA
[PBR]	PUSH BUTTON REQUEST TO EXIT
[R]	AUTO REQUEST TO EXIT
[R]	PUSHBAR REQUEST TO EXIT
[RIC]	RELAY INTERFACE CABINET

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

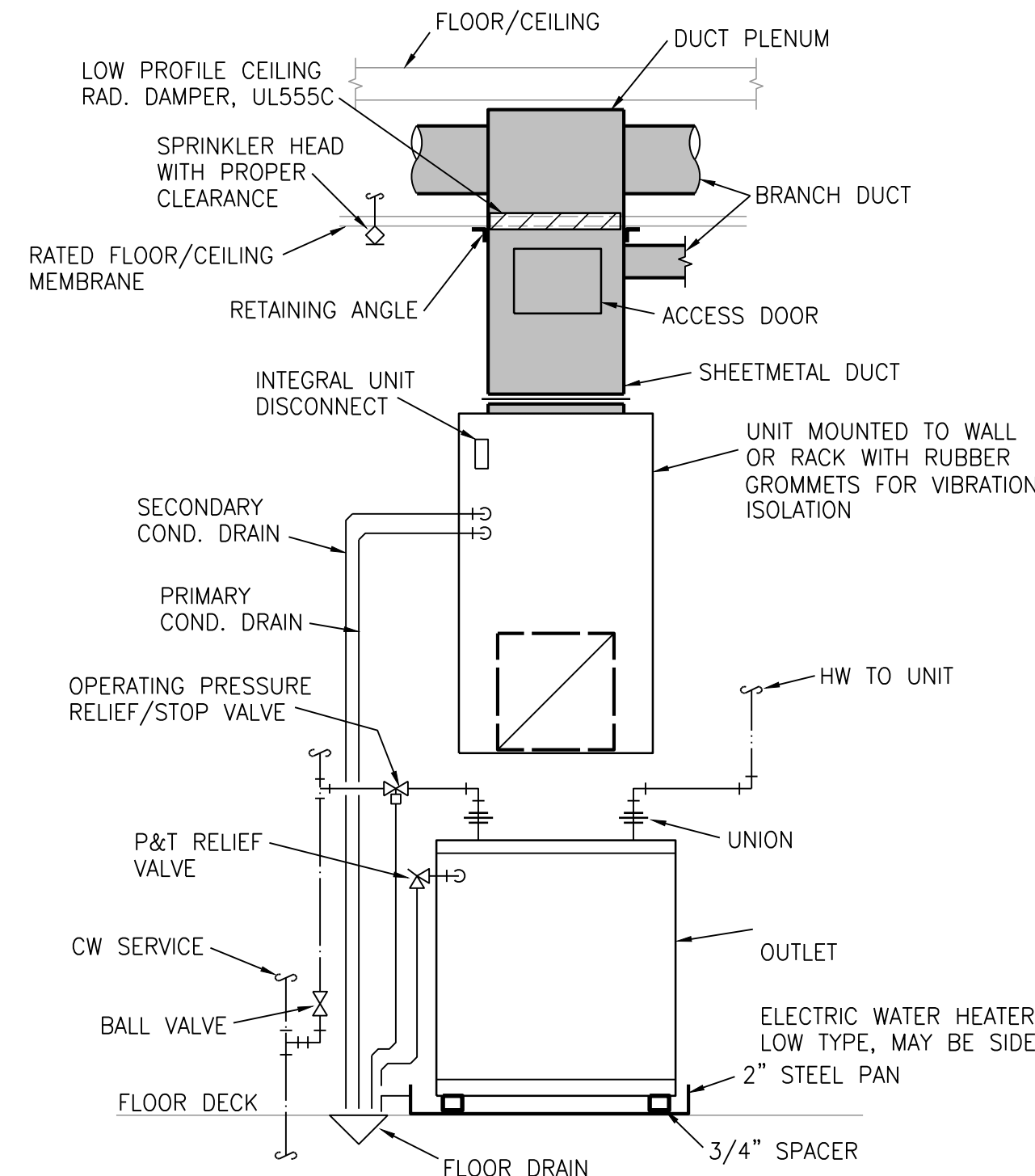
ELECTRICAL SYMBOLS LEGEND			
[C]	CONDUIT CONCEALED IN CEILING OR WALL	[L]	LIGHT FIXTURE AND TYPE
[F]	CONDUIT CONCEALED IN FLOOR SLAB	[FL]	FLUORESCENT LIGHT FIXTURE
[E]	EXPOSED CONDUIT	[ELB]	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
[H]	HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES	[EL]	EXIT LIGHT (CEILING OR WALL MOUNTED)
[G]	GROUND WIRE	[F]	FLUSH PANELBOARD
[GR]	GROUNDING ROD	[SP]	SURFACE PANELBOARD
[S]	SINGLE RECEPTACLE	[D]	DISTRIBUTION PANEL OR SWITCHBOARD
[D]	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)	[A/V]	A/V (WALL MOUNTED) 24 VDC
[U]	USB CHARGING RECEPTACLE	[S]	STROBE
[F]	FOURPLEX RECEPTACLE	[FDS]	FLOW DETECTOR/SWITCH
[D]	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)	[T]	TAMPER DETECTOR
[T]	TELE/DATA OUTLET *	[M]	ADDRESSABLE MANUAL PULL STATION
[P]	PUSHBUTTON	[S]	SMOKE DETECTOR
[M]	MOTOR	[H]	HEAT DETECTOR
[F]	FUSIBLE SWITCH (BUSSMAN SSU)	[H]	ELECTRIC DOOR HOLDER ON FIRE ALARM
[D]	DISCONNECT SWITCH (D.S.)	[FSD]	FIRE/SMOKE DAMPER
[CM]	COMBINATION MOTOR STARTER (CMS)	[FACP]	FIRE ALARM CONTROL PANEL
[R]	RELAY	[FAPP]	FIRE ALARM ANNUNCIATOR PANEL
[J]	JUNCTION BOX	[CAR]	AREA RESCUE CALL STATION
[T]	THERMOSTAT ELECTRIC	[AC]	DEVICE LOCATED ABOVE COUNTER
[S]	SWITCH - SINGLE POLE	[AFF]	ABOVE FINISHED FLOOR
[3, 4]	3-WAY, 4-WAY	[D]	DIMMER
[C]	COMBINATION TV AND DATA OUTLET	[EDF]	ELECTRIC DRINKING FOUNTAIN
		[GFI]	GROUND FAULT INTERRUPTER
		[NL]	NIGHTLIGHT FIXTURE, WIRED HOT
		[WP]	WEATHERPROOF

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. * 6x4 BACKBOX WITH SINGLE GANG PLASTER RING AND A 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

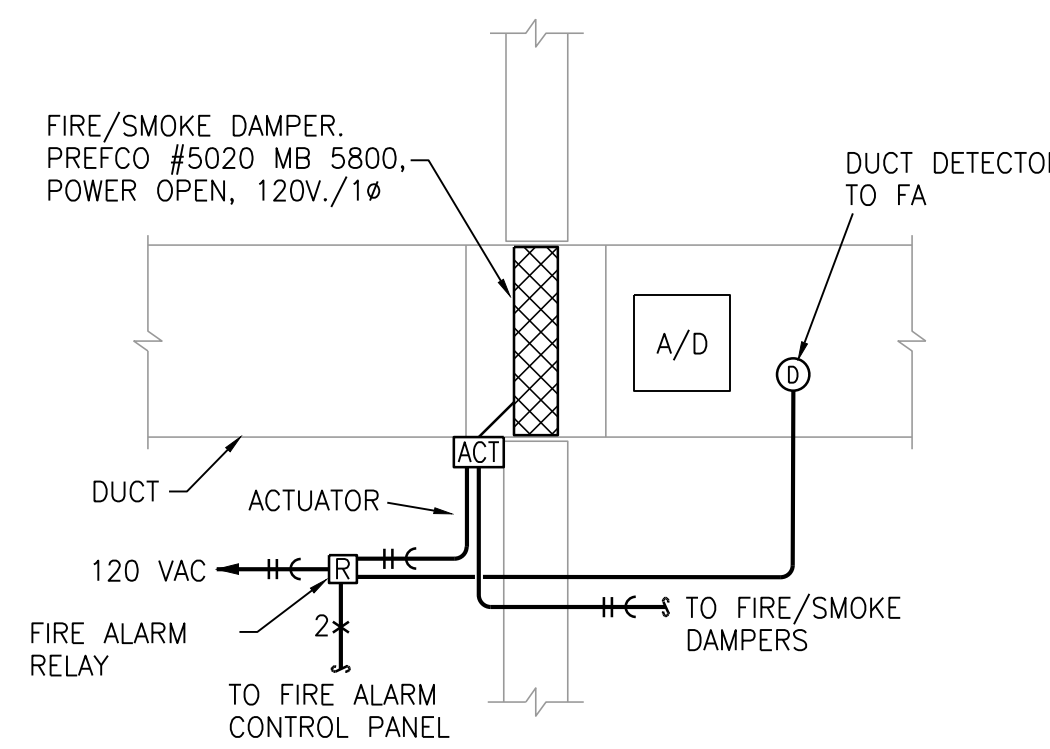
DEVICE MOUNTING NOTES:	
1. VISUAL UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.	
2. AUDIO UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.	
* TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.	
3. AUDIO/VISUAL UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.	
4. PULL STATION HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH).	
ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.	



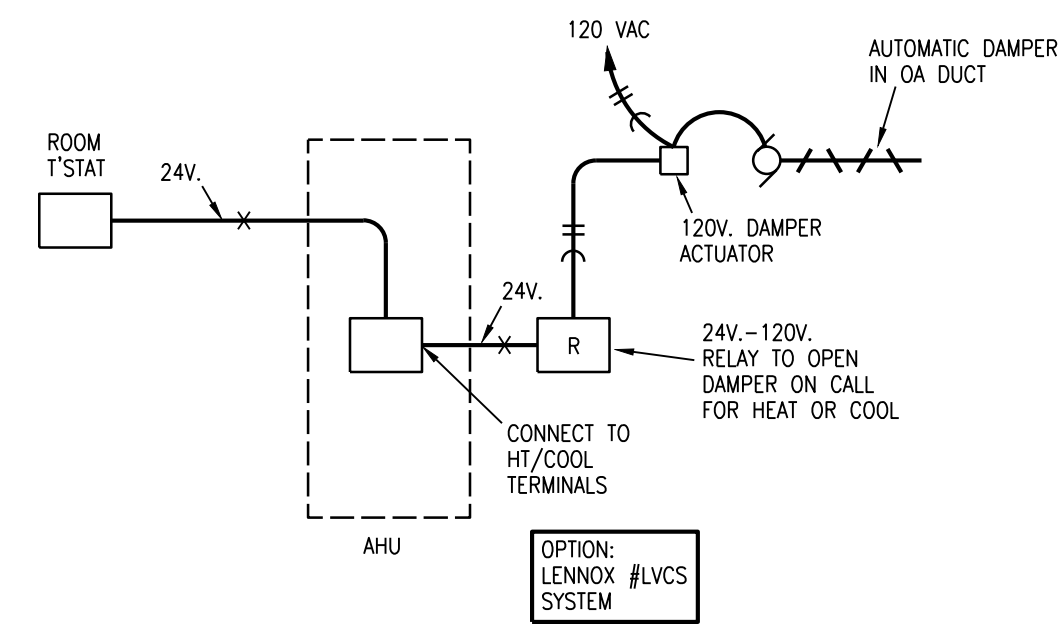
3 **GROUNDING ELECTRODE SYSTEM DETAIL**
NO SCALE



4 **MECHANICAL CLOSET DETAIL**
NO SCALE



5 **FIRE/SMOKE DAMPER DETAIL**
NO SCALE



6 **OUTSIDE AIR DAMPER CONTROL SCHEMATIC**
NO SCALE (TYP. FOR CORRIDOR UNITS)

LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsaa.com
LSA PROJECT NO. 210408

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TRI ARCHITECTS
1750 S. Brentwood Blvd.
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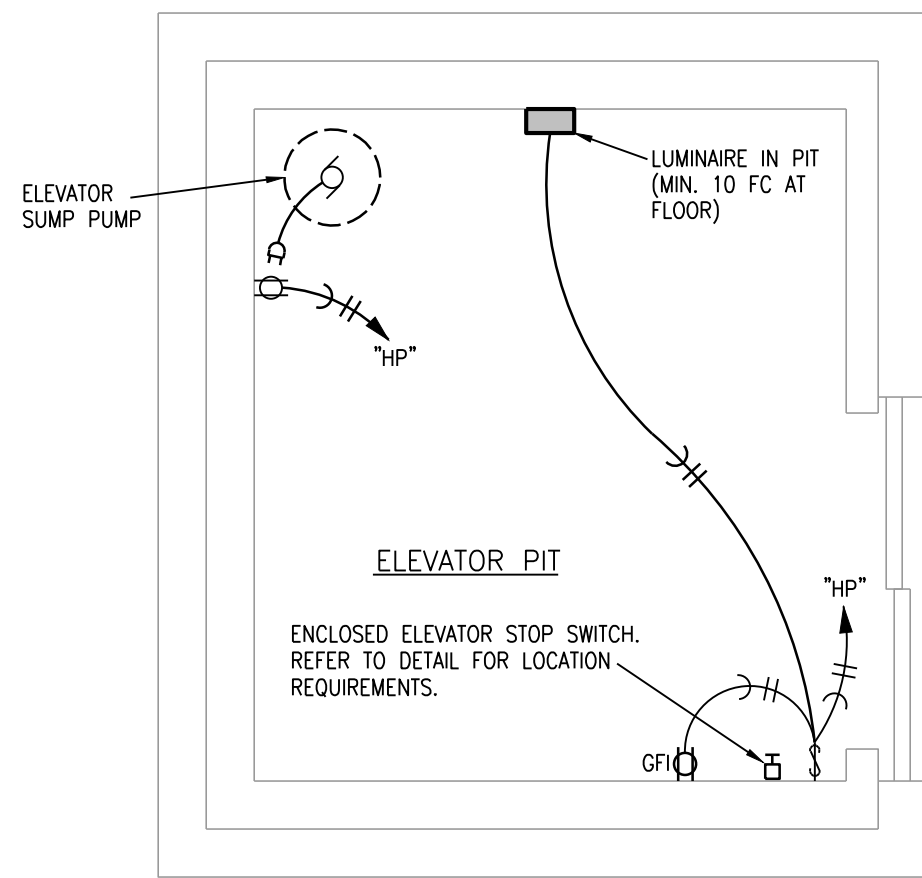
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REVISIONS

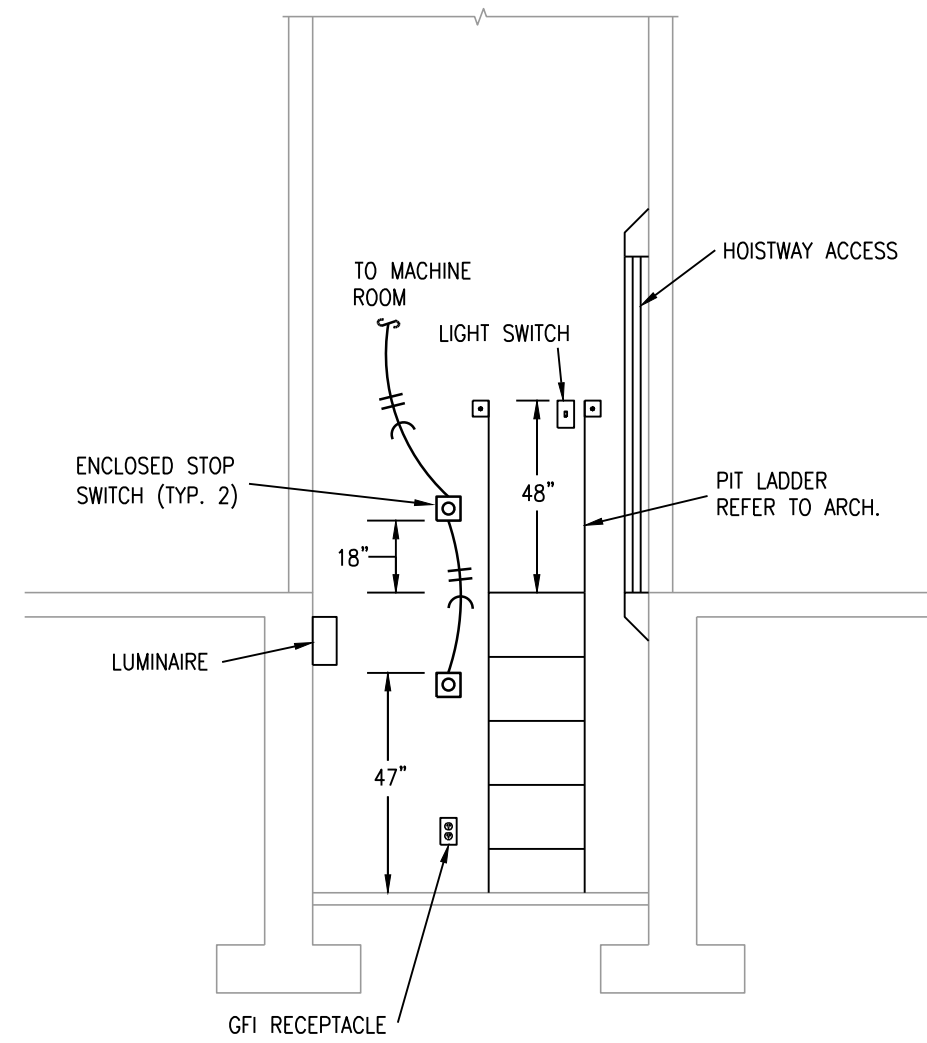
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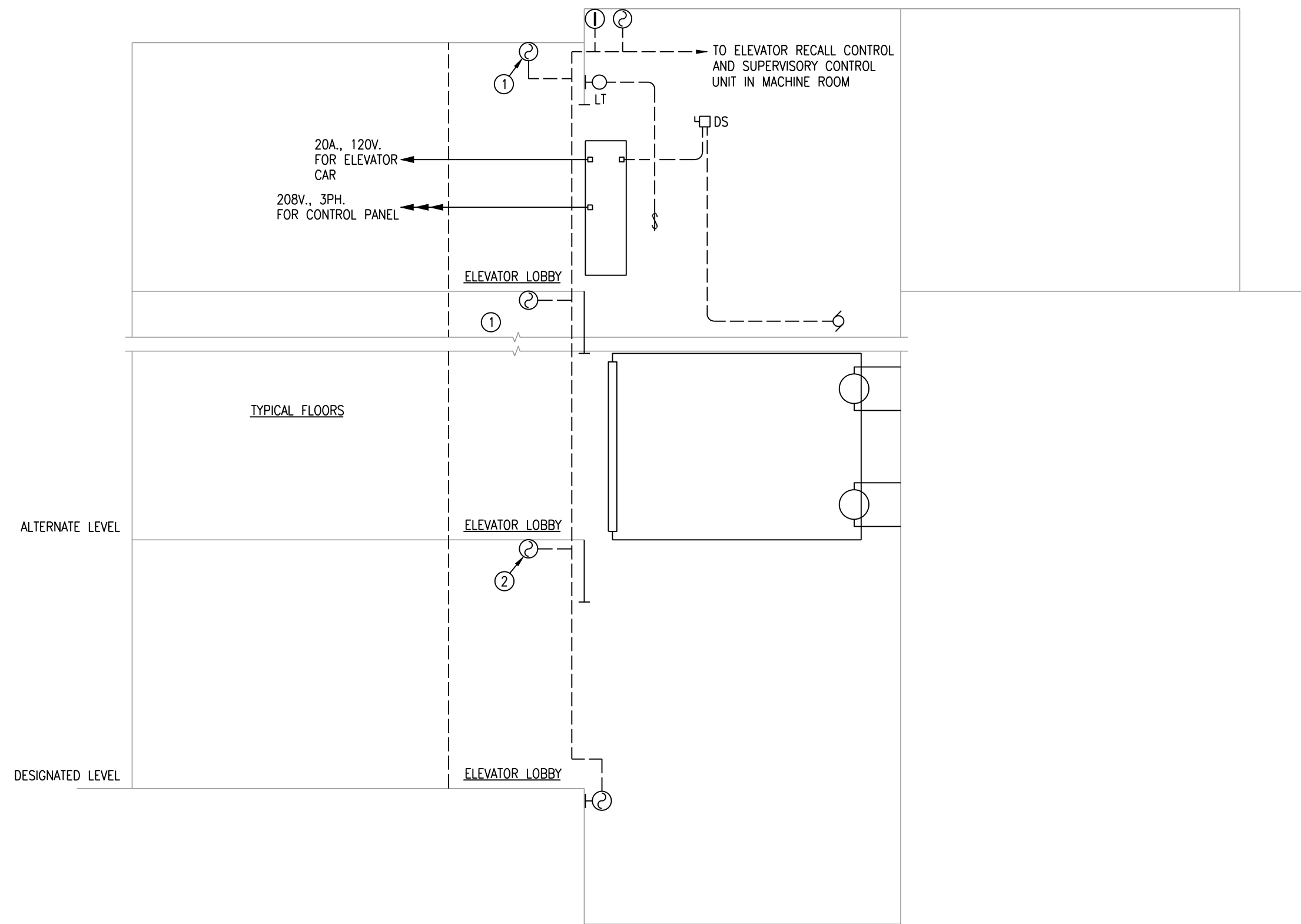
SHEET NO. **E301**
ELECTRICAL DETAILS



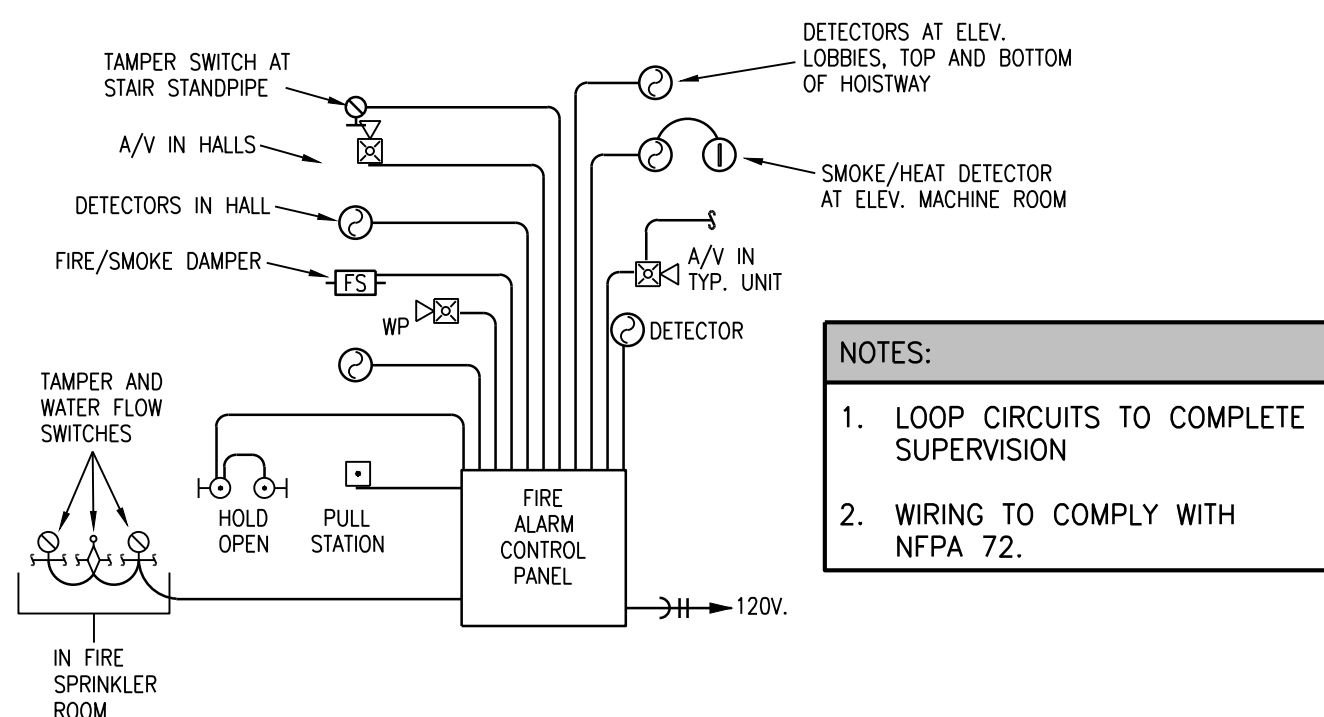
1 ELEVATOR PIT ELECTRICAL DETAIL
NO SCALE



2 ELEVATOR PIT DETAIL
NO SCALE

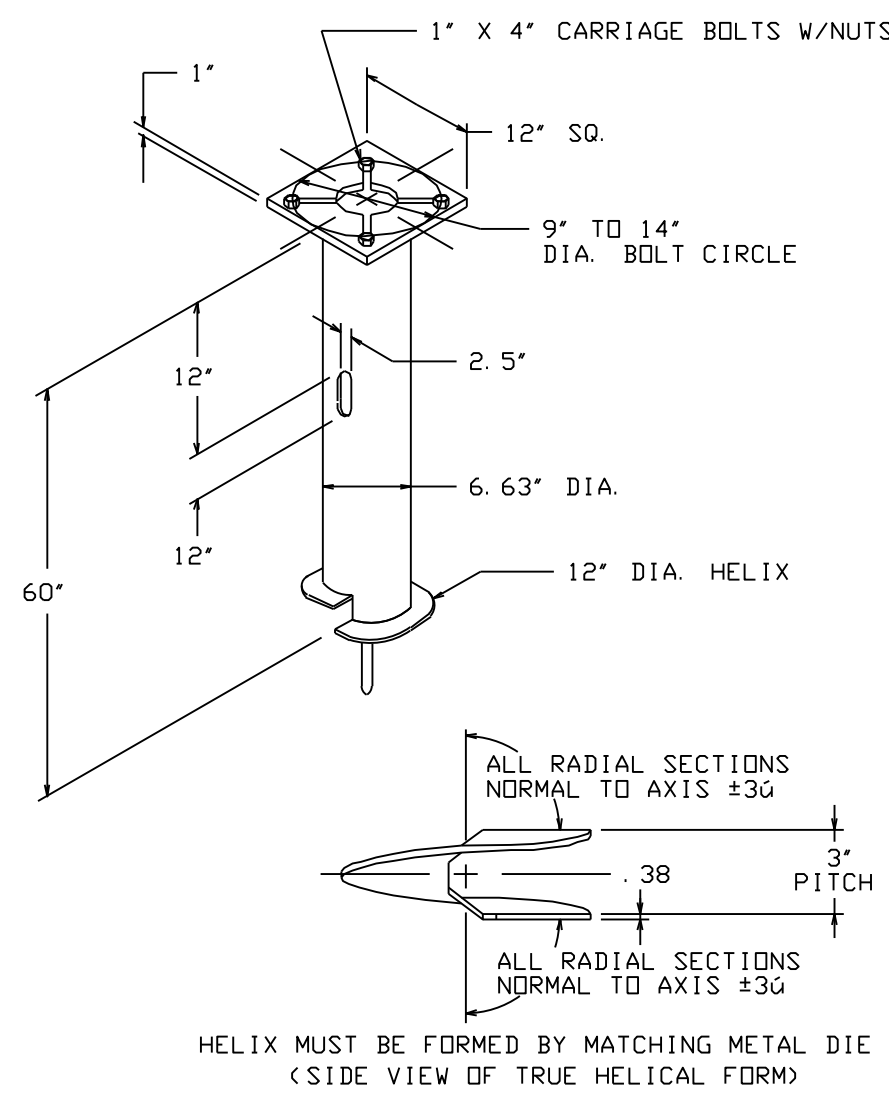


3 ELECTRIC ELEVATOR FIRE PROTECTION SYSTEM OPERATION DETAIL
NO SCALE



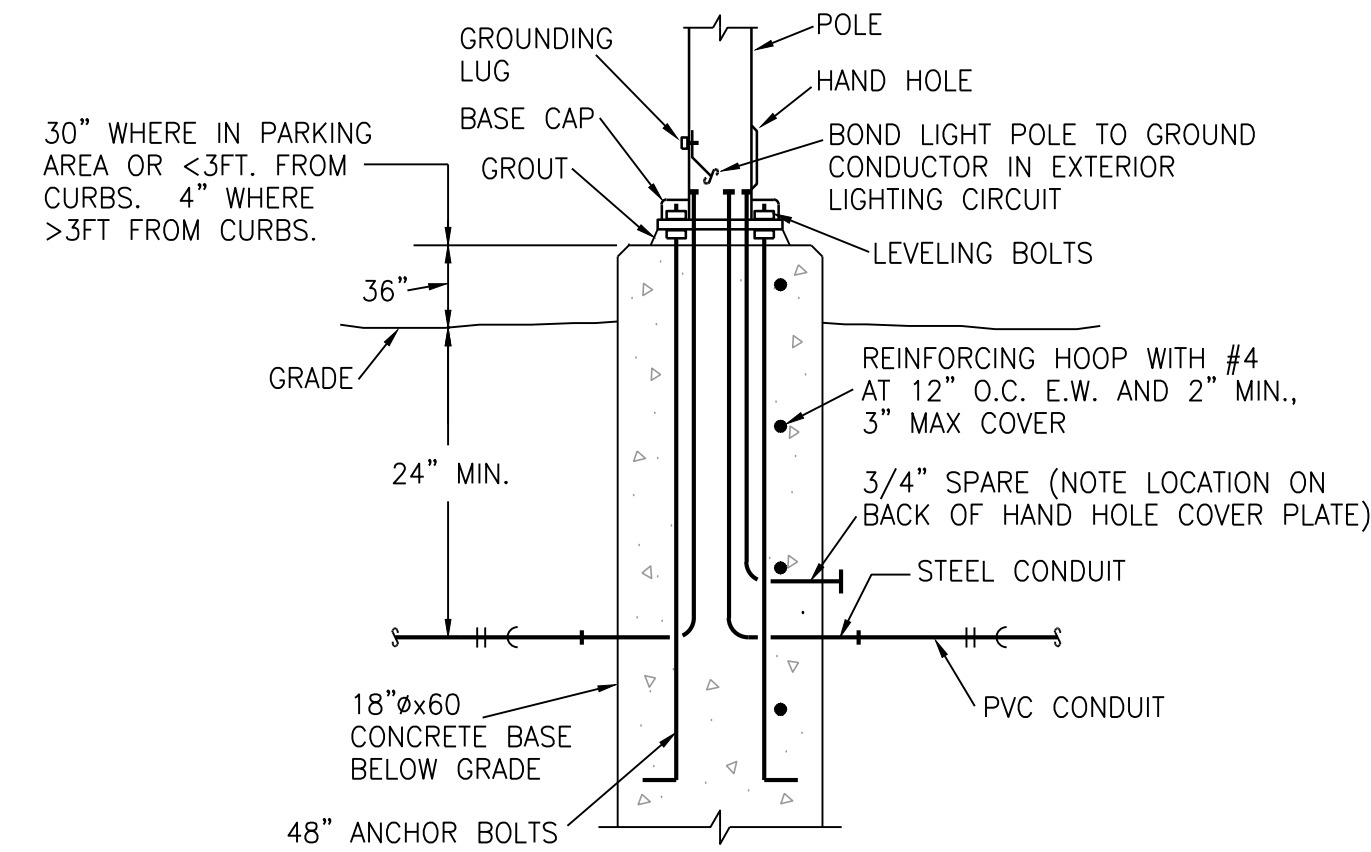
- NOTES:**
1. LOOP CIRCUITS TO COMPLETE SUPERVISION
 2. WIRING TO COMPLY WITH NFPA 72.

1 FIRE ALARM RISER DIAGRAM
NO SCALE

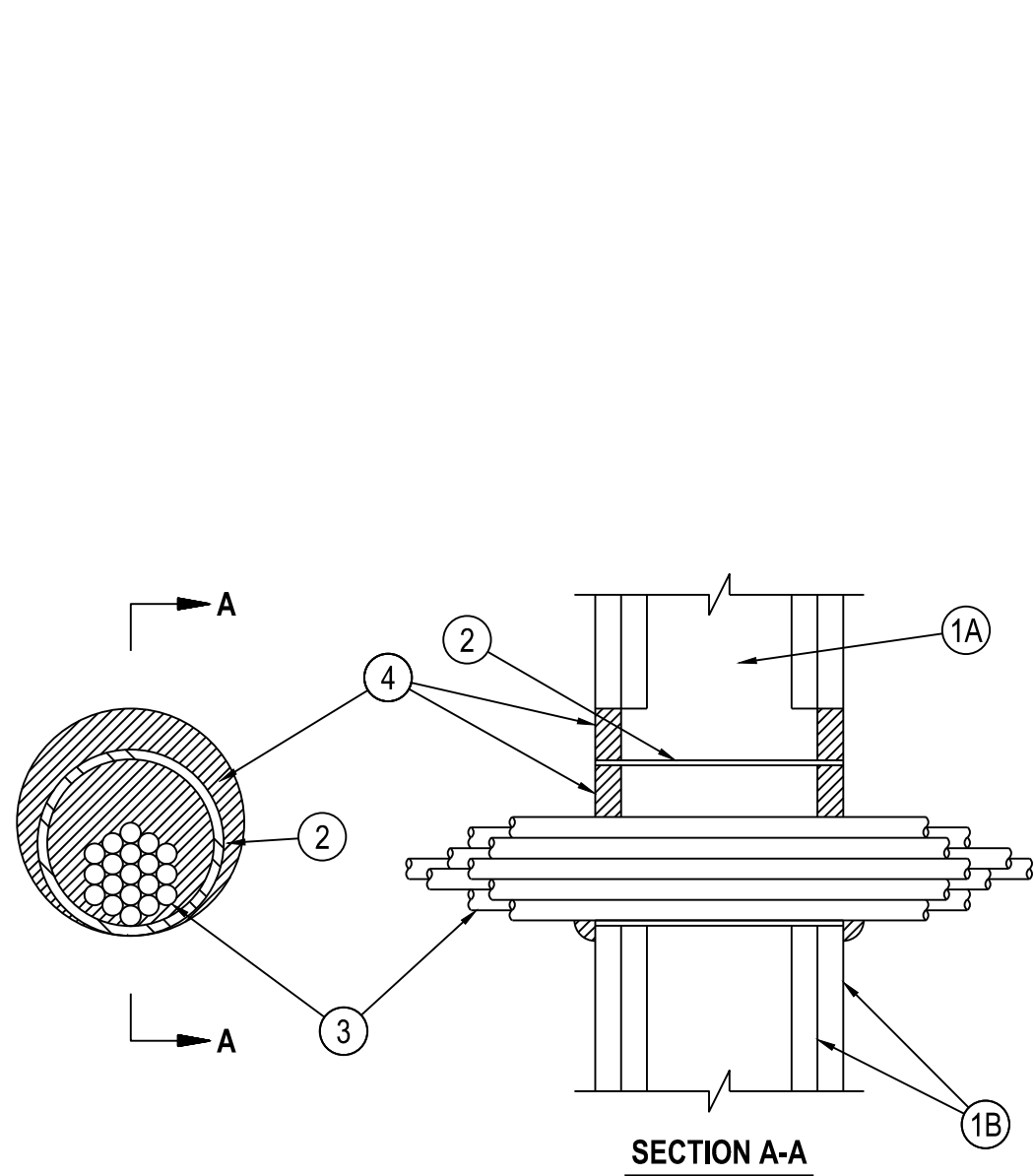


- NOTES-**
1. FINISH - HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION)
 2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (+10) AND HOLE CENTERLINE CONCENTRIC (+1.00) TO SHAFT AXIS
 3. STEEL W/IN 1/32 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING
 4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (+1.05 FIN) AND IN LINE (+2.0)
 5. FLAME CUT SLOTT PERPENDICULAR TO THE BASEPLATE (BREAKAT), TURNER-FAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS
 6. FLAMECUT IRREGULARITIES PROHIBITED. (1) VALLEYS NOT TO EXCEED 2/32 IN. BELOW NOMINAL SURFACE LEVEL. (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32 IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES
 7. MANUFACTURER TO HANG IN ELEVATOR INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES
 8. ALL MATERIAL IS TO BE NEW, UNLESS AND MILE TRACABLE MEETING THE FOLLOWING SPECIFICATIONS
 9. BASEPLATE: ASTM A36 (LATEST REVISION) HOT ROLLED STEEL PLATE, CONFORM TO AASHTO TECH. BUL. #2702
 10. SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED, GRADE-C PER ASTM A501, A.L.T. MATERIAL, STEEL PIPE TYPE E OR S, GRADE-B PER ASTM A53
 11. HELIX: ASTM A635 (LATEST REVISION) HOT ROLLED STEEL
 12. PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR
 13. BOLTS: CARR. BOLT PER ANSI B-18.2.1, SAE J429 GRADE-5
 14. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/32" LETTERS AND DATE CODE IN 1/4" LETTERS

5 LIGHT POLE FOUNDATION
NO SCALE
CAT. NO. C11242NG4VP

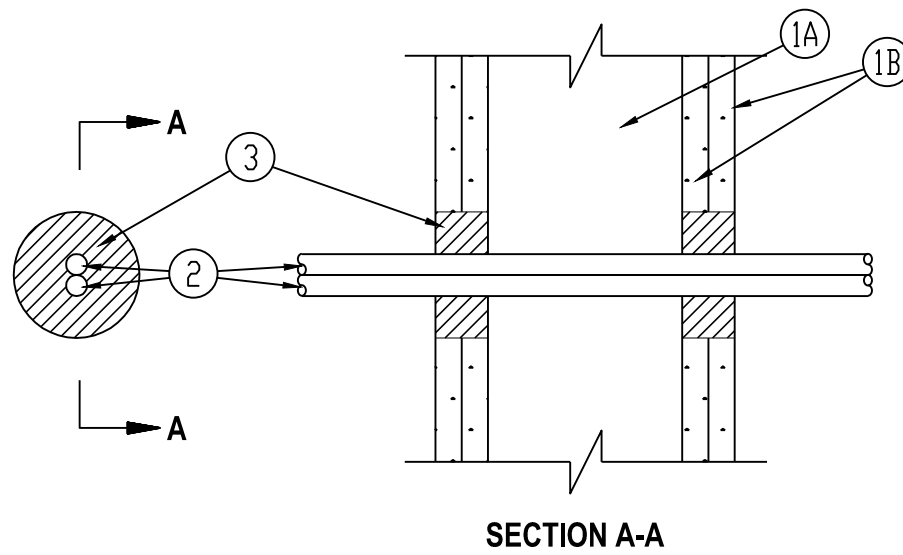


6 LIGHTING POLE BASE DETAIL
NO SCALE
LT-POLE6



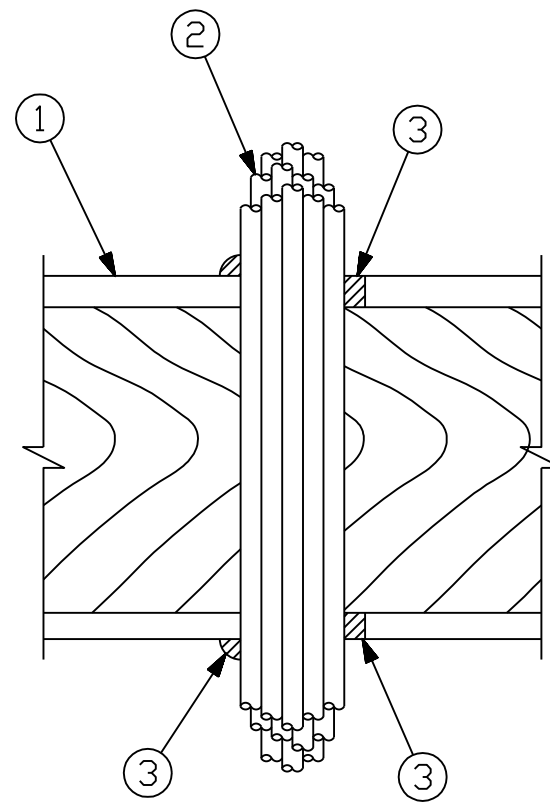
**1 FIRE RATED
PENETRATION DETAIL**
NO SCALE SYSTEM WL-3065

- NOTES AND LEGENDS:**
1. Wall Assembly -- The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 - B. Gypsum Board* -- Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
 2. Cables -- Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
 - B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 - C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 5/8 in. (16 mm).
 - D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
 - E. Through Penetrating Products** -- Max three copper conductor No. 8 AWG, Metal-Clad Cable.
 - F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
 - G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
 - H. Fire Resistive Cables* -- Max 1-1/4 in. (32 mm) diam single conductor or multi-conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
 3. Fill, Void or Cavity Material* -- Sealant or Putty -- Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
 - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC -- CP6015, CP606, FS-One Sealants or CP618 Putty
 - *Bearing the UL Classification Mark
 - **Bearing the UL Listing Mark



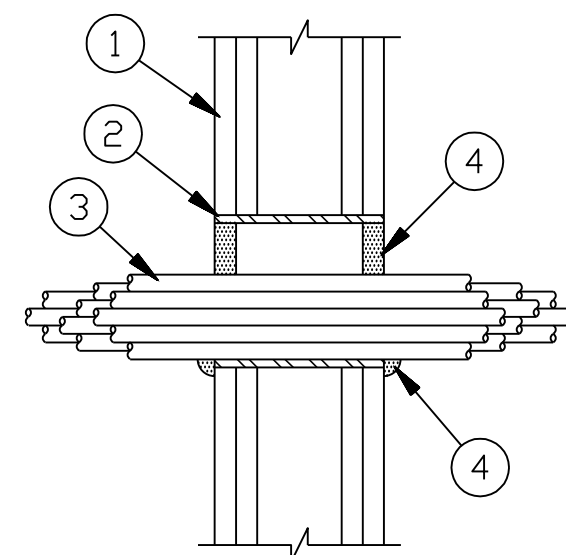
3 FIRE STOP DETAIL
NO SCALE SYSTEM W-L-3071

- NOTES AND LEGENDS:**
1. Wall Assembly -- The 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 may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly F Rating of the firestop system is 1/4 and 3/4 hr for 1 and 2 hr rated wall assemblies, respectively.
 2. Cables -- Max two 3/C with ground No. 2/0 AWG aluminum or copper type SER cable with polyvinylchloride (PVC) insulation. Cable to be rigidly supported on both sides of wall assembly. The annular space between the cables and the periphery of opening shall be min 1/2 in. to max 1-1/2 in.
 3. Fill, Void or Cavity Material* -- Sealant -- Installed to completely fill the annular space between the cables and gypsum wallboard on both sides of wall.
 - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC -- FS-One Sealant



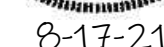
**2 FIRE RATED
PENETRATION DETAIL**
NO SCALE SYSTEM FC-3074

- NOTES AND LEGENDS:**
1. Floor-Ceiling Assembly -- The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual 1500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features 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 diam of opening shall be 3 in.
 - B. Wood Joists* -- Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 - C. Gypsum Board* -- Nom 4 ft wide by 5/8 in. 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.
 - Chase Wall -- (Optional, Not Shown) -- The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). 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 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.
 - B. Sole Plate -- Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
 - C. Top Plate -- The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in., or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
 - D. Gypsum Board* -- Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
 3. Cables -- Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 - B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.
 - C. Max 3/C with ground 2/0 AWG aluminum SER cable with PVC insulation and jacket.
 - D. Max 3/C No. 10 AWG copper conductor steel clad cable.
 - E. Max 24 fiber optic cable.
 - F. RG-59U coaxial cable.
 - G. CAT 5 data cable.
- Fill, Void or Cavity Materials*--Sealant -- Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subflooring or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations.
- HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC -- CP 606 Flexible Firestop Sealant
- *Bearing the UL Classification Mark



4 FIRE STOP DETAIL
NO SCALE SYSTEM W-L-3213

- NOTES AND LEGENDS:**
1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum board/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 Fire Resistance Directory and shall include the following construction features:
 - A. Studs -- Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide, fabricated from min 25 MSC galvanized steel, spaced max 24 in. OC.
 - B. Gypsum Board* -- Nom 5/8 in. thick with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max diameter of opening is 4 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 2. Non-Metallic Sleeve -- Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core polyvinyl chloride (PVC) pipe friction fit into wall flush with both surfaces of wall.
 3. Cables -- Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1-3/8 in. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. Max 500 KCMIL power cable.
 - B. Max 100 pair No. 24 AWG telephone cable with PVC insulation and jacket.
 - C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket and having a max OD of 3/4 in.
 - D. Max 3/C No. 8 AWG steel clad cable.
 - E. Max 3/C No. 8 AWG (with ground) with PVC insulation and jacket.
 - F. Multiple fiber optical communication cable with PVC jacket with a max OD of 3/8 in.
 - G. Max 3/4 in. diam copper ground cable with PVC jacket.
 4. Fill, Void or Cavity Material* -- Putty -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between cables/sleeve, a min 5/8 in. diam bead of fill material shall be applied at the cable/sleeve interface.
 - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC -- CP618 Putty Stick
 - *Bearing the UL Classification Mark



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MAR	OCF	SETS	NO. COND.	SIZE	SIZE GRD	CONDUIT
		1	1		3/0 CU	
1	225 A	1	4	300 KCMIL	#2	3
2	400 A	2	4	#4/0	#1	2
3	1200 A	4	4	500 KCMIL		3
4	1600 A	5	4	600 KCMIL		4
5	100 A	1	4	#1/0	#4	1

BASED ON ALUM SE TYPE CABLE		
MAIN BREAKER	SIZE COND.	MAX LENGTH (FT)
100A.	2-2-2-6	100
100A.	2-2-2-6	100
100A.	1-1-1-4	125
100A.	0-0-0-4	155
110A.	1-1-1-4	115
110A.	0-0-0-4	140
110A.	2/0-2/0-2/0-3	180
125A.	0-0-0-4	125
125A.	2/0-2/0-2/0-3	155
125A.	3/0-3/0-3/0-3	200

NOTE: ALL GEAR TO BE 65 KAC SERIES
RATED. KAIC TO BE VERIFIED WHEN POWER
COMPANY DESIGN IS COMPLETE. ALL GEAR TO
HAVE PERMANENT VISUAL PLAQUES NOTING
DISCONNECT POINTS ON FOR EACH BUILDING.



2100 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



DATE: 7.15.2021

REVISIONS

1 PERMIT REVIEW COMMENTS 08-17

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SHEET NO. _____

ELECTRICAL DISTRIBUTION RISER DIAGRAMS



Multi-Family Building Load Analysis				
Building: 1-1A, 1-1B				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
15	A1	31480	471.9	
5	A2, A4, A5	31870	159.4	
0	A3	32170	0.0	
24	B1, B2	33070	793.7	
15	B3, B4	33025	495.4	
7	C1	35600	249.2	
3	C2	35240	105.7	
Total Building KVA			2275.2	
Total Units			69	
Diversity per NEC Table 230.84			0.23	
Diversified KVA			523.3	
Amps @ 208 V Three Phase			1454	
House Load - Amps			300	
Total Demand - Amps			1754	

Multi-Family Building Load Analysis				
Building: 1-1B				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
9	A1	31480	283.1	
5	A2, A4, A5	31870	159.4	
0	A3	32170	0.0	
12	B1, B2	33070	396.8	
12	B3, B4	33025	396.3	
1	C1	35600	35.6	
3	C2	35240	105.72	
Total Building KVA			1377.0	
Total Units			42	
Diversity per NEC Table 230.84			0.26	
Diversified KVA			358.0	
Amps @ 208 V Three Phase			964	
House Load - Amps			350	
Total Demand - Amps			1344	

Multi-Family Building Load Analysis				
Building: 2-1A, B				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
12	A1	31480	377.5	
0	A2, A4, A5	31870	0.0	
3	A3	32170	96.5	
34	B1, B2	33070	1124.4	
3	B3, B4	33025	99.1	
3	C1	35600	106.8	
6	C2	35240	211.4	
Total Building KVA			2015.7	
Total Units			61	
Diversity per NEC Table 230.84			0.24	
Diversified KVA			483.8	
Amps @ 208 V Three Phase			1344	
House Load - Amps			300	
Total Demand - Amps			1644	

Multi-Family Building Load Analysis				
Building: 2-1 B				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
3	A1	31480	94.4	
0	A2, A4, A5	31870	0.0	
0	A3	32170	0.0	
19	B1, B2	33070	628.3	
3	B3, B4	33025	99.1	
3	C1	35600	106.8	
0	C2	35240	0.0	
Total Building KVA			928.6	
Total Units			28	
Diversity per NEC Table 230.84			0.33	
Diversified KVA			308.4	
Amps @ 208 V Three Phase			851	
House Load - Amps			300	
Total Demand - Amps			1151	

Multi-Family Building Load Analysis				
Building: 1-1A				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
6	A1	31480	188.8	
0	A2, A4, A5	31870	0.0	
0	A3	32170	0.0	
12	B1, B2	33070	396.8	
3	B3, B4	33025	99.1	
6	C1	35600	213.6	
0	C2	35240	0.0	
Total Building KVA			898.3	
Total Units			27	
Diversity per NEC Table 230.84			0.34	
Diversified KVA			305.4	
Amps @ 208 V Three Phase			848	
House Load - Amps			150	
Total Demand - Amps			998	

Multi-Family Building Load Analysis				
Building: 1-2				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
18	A1	31480	566.3	
6	A2, A4, A5	31870	191.2	
0	A3	32170	0.0	
3	B1, B2	33070	99.2	
3	B3, B4	33025	99.1	
6	C1	35600	213.6	
0	C2	35240	0.0	
Total Building KVA			1070.2	
Total Units			33	
Diversity per NEC Table 230.84			0.31	
Diversified KVA			331.8	
Amps @ 208 V Three Phase			922	
House Load - Amps			150	
Total Demand - Amps			1072	

Multi-Family Building Load Analysis				
Building: 2-1A				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
6	A1	31480	188.8	
0	A2, A4, A5	31870	0.0	
0	A3	32170	0.0	
3	B1, B2	33070	99.2	
3	B3, B4	33025	0.0	
6	C1	35600	213.6	
6	C2	35240	211.4	
Total Building KVA			713.0	
Total Units			21	
Diversity per NEC Table 230.84			0.37	
Diversified KVA			263.8	
Amps @ 208 V Three Phase			733	
House Load - Amps			150	
Total Demand - Amps			883	

Multi-Family Building Load Analysis				
Building: 2-2				
Unit Quantity	Unit Type	Connected Load - VA	Total KVA	
9	A1	31480	283.1	
0	A2, A4, A5	31870	0.0	
3	A3	32170	96.5	
15	B1, B2	33070	496.1	
0	B3, B4	33025	0.0	
0	C1	35600	0.0	
6	C2	35240	211.4	
Total Building KVA			1087.1	
Total Units			33	
Diversity per NEC Table 230.84			0.31	
Diversified KVA			337.0	
Amps @ 208 V Three Phase			936	
House Load - Amps			150	
Total Demand - Amps			1086	

Unit Load Calculation				
Unit: A1				
630 square feet at 3 VA per sq. ft.	VA	1890		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		25880		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	6352			
Heater Load	5600	65%	3640	
Total load		19922		
Load for unit service Amp @ 208 volt/1		96		
Connected Load		31480		

Unit Load Calculation				
Unit: B1, B2				
1160 square feet at 3 VA per sq. ft.	VA	3480		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		27470		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	6988			
Heater Load	5600	65%	3640	
Total load		20628		
Load for unit service Amp @ 208 volt/1		96		
Connected Load		33070		

Unit Load Calculation				
Unit: C2				
1250 square feet at 3 VA per sq. ft.	VA	3750		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		27740		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	7096			
Heater Load	7500	65%	4875	
Total load		21871		
Load for unit service Amp @ 208 volt/1		106		
Connected Load		35240		

Unit Load Calculation				
Unit: A2, A4, A5				
760 square feet at 3 VA per sq. ft.	VA	2280		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		26270		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	6506			
Heater Load	5600	65%	3640	
Total load		20148		
Load for unit service Amp @ 208 volt/1		97		
Connected Load		31870		

Unit Load Calculation				
Unit: B3, B4				
1145 square feet at 3 VA per sq. ft.	VA	3435		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		27425		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	6970			
Heater Load	5600	65%	3640	
Total load		20610		
Load for unit service Amp @ 208 volt/1		96		
Connected Load		33025		

Unit Load Calculation				
Unit: A3				
860 square feet at 3 VA per sq. ft.	VA	2580		
2 small appliance circuits		3000		
Range		8000		
Microwave		1000		
Washer		1500		
Dryer		4400		
Water Heater		4500		
Dishwasher		740		
Disposer		850		
Total general load		26570		
NEC 220-84 Calculation				
First 10 KVA at 100%	10000			
Remainder at 40%	6628			
Heater Load	5600	65%	3640	
Total load		20268		
Load for unit service Amp @ 208 volt/1		97		
Connected Load		32170		

Unit Load Calculation				
Unit: C1				
1370 square feet at 3 VA per sq. ft.	VA	4110		
2 small appliance circuits		3000		

ELECTRICAL PANEL SCHEDULE															
PANEL H-12		LOCATION										MOUNTING SURFACE			
BUS 225 A		MAINS		ML-0		VOLTAGE		120/208		PHASE/WIRE		3/4		K&C 10	
				WATTS								WATTS			
DESCRIPTION	A	B	C	BRKR	WIRE	POLE	WIRE	BRKR	A	B	C	DESCRIPTION			
AHU-11	4105			50	8	1	2	12	20	500		POWER/LTG			
		4105			8	3	4	12	20		200	IDF			
AHU-16			4185	50	8	5	6	12	20			400	LTG		
	4105				8	7	8	12	20	800		POWER			
AHU-19			4160	50	8	9	10	12	20		600	POWER			
			4160		8	11	12	12	20			400	POWER/LTG		
CJ-1/1	1460			25	10	13	14	12	20	600		POWER			
		1460			10	15	16	12	20		200	IDF			
CJ-1/6			1460	25	10	17	18	12	20			400	LTG		
	1460				10	19	20	12	20	400		LTG			
CJ-1/9		1460		25	10	21	22	12	20		800	POWER			
			1460		10	23	24	12	20			OSS-1/3			
EJH-A	1250			20	12	25	26	10	2P	1350		LTG			
		1250			12	27	28	10		500					
EJH-A			1250	20	12	29	30	10	20			1520	WH-1/3		
	1250				12	31	32								
EJH-A		1250		20	12	33	34								
			1250		12	35	36								
OSS-1/2	1350			25	10	37	38								
		1350		2P	10	39	40								
					41	42									
CONNECTED LOAD WATTS	16740	17390	17610									FEEDER LOAD WATTS			
CONNECTED LOAD-AMPS	156	145	148									FEEDER LOAD-AMPS			
CONTINUOUS LOAD												FEEDER WIRE			
PEACE/PLEAS												FEEDER OCP			
NON-CONTINUOUS LOAD															
OTHER DIVERSIFIED LOAD															

ELECTRICAL PANEL SCHEDULE															
PANEL H1-1B		LOCATION								MOUNTING SURFACE					
BUS	400 A	MAINS	MLO	WATTS		VOLTAGE		120/208	PHASE/WIRE:		3/4	KMC 10			
DESCRIPTION	A	B	C	BRKR	WIRE		POLE	WIRE	BRKR	A	B	C	DESCRIPTION		
AHU-1/2		5930		70	6	1	2	12	20	1250			ELUHA		
			5930	2P	6	3	4	12	2P		1250				
AHU-1/3			5930	70	6	5	6	10	20			1350	DSS-1/4		
		5930		2P	6	7	8	10	2P	1350					
AHU-1/4			4160	50	8	9	10	10	25		1250		ELUHA		
			4160	2P	8	11	12	12	2P			1250			
AHU-1/7		4160		50	8	13	14	12	20	600			POWER		
			4160	2P	8	15	16	12	20		600		POWER		
AHU-1/10			4160	50	8	17	18	12	20				400 LTG		
		4160		2P	8	19	20	12	20	250			FACP (HLO)		
CU-1/2			2740	50	8	21	22	12	20		400		MDF		
			2740	2P	8	23	24	12	20				400 MDF		
CU-1/3		2740		50	8	25	26	12	20	400			POWER		
	M		2740	2P	8	27	28	12	20		400		POWER		
CU-1/4			1460	25	10	29	30	12	20				400 LTG		
		1460		25	10	31	32	12	20	500			ELEV SUMP PUMP		
CU-1/7			1460	25	10	33	34	12	20		250		ELEV PIT		
			1460	2P	10	35	36	12	20				400 LTG		
CU-1/10		1460		25	10	37	38	12	20	400			LTG		
			1460	2P	10	39	40	12	20		400		LTG		
DSS-1/1			1350	25	10	41	42	12	20			600	POWER		
		1350		2P	10	43	44	12	20	600			POWER		
EUHA			1250	20	12	45	46	12	20		500		ELEVATOR CAB		
			1250	2P	12	47	48	12	20			250	ELEV TOP		
EUHA		1250		20	12	49	50	6	60	4800			ELEVATOR		
			1250	2P	12	51	52	6			4800				
					53	54	6	3P				4800			
CONNECTED LOAD-WATTS	48750	45110	41170											FEEDER LOAD WATTS	
CONTINUOUS LOAD	406	376	343											FEEDER LOAD AMPS	
RECEPTACLES														FEEDER WIRE	
NON-CONTINUOUS LOAD														FEEDER OCP	
OTHER DIVERSIFIED LOAD														400 A	

[illegible]

ELECTRICAL PANEL SCHEDULE													
PANEL: H1-1A		LOCATION				MOUNTING SURFACE							
BUS: 225 A		MAINS		MEO		VOLTAGE		120/208		PHASEWIRE		3/4	
		A		B		C		WATTS		BANK		A	
DESCRIPTION		A		B		C		WATTS		BANK		A	
AHU-1/5	4160			4160	2P	50	8	1	2	12	20	600	POWER
AHU-1/8				4160	2P	50	8	3	4	12	20	600	POWER
AHU-1/11				4160	2P	50	8	5	6	12	20	400	LTG
				4160	2P	50	8	7	8	12	20	400	DF
				4160	2P	50	8	9	10	12	20	400	DF
				4160	2P	50	8	11	12	12	20	600	POWER
CU-1/5	1460				2P	25	10	13	14	12	20	250	LTG
CU-1/8				1460	2P	25	10	15	16	12	20	600	POWER
CU-1/11				1460	2P	25	10	17	18	12	20	200	LTG
				1460	2P	25	10	19	20	12	20	600	POWER
				1460	2P	25	10	21	22	12	20	400	LTG
EUH-A	1250				2P	20	12	23	24	12	20	400	LTG
				1250	2P	20	12	25	26				
				1250	2P	20	12	27	28				
EUH-A				1250	2P	20	12	29	30				
				1250	2P	20	12	31	32				
DSS-1/5				1350	2P	25	10	33	34				
				1350	2P	25	10	35	36				
				1350	2P	25	10	37	38				
				1350	2P	25	10	39	40				
				1350	2P	25	10	41	42				
CONNECTED LOAD-WATTS	15590	15840	15440									FEEDER LOAD-WATTS	
CONNECTED LOAD-AMPS	139	132	129									FEEDER LOAD-AMPS	
CONTINUOUS LOAD												FEEDER WIRE	
RECEPTACLES												FEEDER OCP	
NON-CONTINUOUS LOAD													
OTHER DIVERSIFIED LOAD													

0.5

ELECTRICAL PANEL SCHEDULE																	
PANEL H2-2						LOCATION:				MOUNTING SURFACE:							
BUS: 225 A		MAINS:		MLO		VOLTAGE:		120/208		POLE		PHASE/WIRE:		3/4		KALC: 10	
		WATTS															
DESCRIPTION		A	B	C	BRKR	WIRE		WIRE	BRKR	A	B	C	DESCRIPTION				
AHU-2/4		4160			50	#	1	2	12	20	600					POWER	
			4160		2P	#	3	4	12	20		600				POWER	
AHU-2/7				4160	50	2P	#	5	6	12	20			250		POWER/LTG	
		4160			2P	#	7	8	12	20	600					POWER	
AHU-2/10				4160	50	2P	#	9	10	12	20		600			POWER	
					4160	2P	#	11	12	12	20			600		POWER	
CJ-2/4		1400			25	10	13	14	12	20	500					LTG	
			1400		2P	10	15	16	12	20		500				LTG	
CJ-2/7				1400	25	2P	10	17	18	12	20			500		LTG	
		1400			2P	10	19	20	12	20	500					LTG	
CJ-2/10				1400	25	2P	10	21	22	12	20		800			POWER	
					1400	2P	10	23	24	12	20			500		LTG	
OSS-2/5		1350			25	10	25	26	12	20		200				#	
			1350		2P	10	27	28	12	20			200			#	
EJH-A				1250	20	2P	12	29	30								
					1250	2P	12	31	32								
EJH-B				4368	60	8	33	34									
					4368	2P	8	35	36								
								37	38								
								39	40								
								41	42								
CONNECTED LOAD-WATTS			10240		19658		18708					FEEDER LOAD-WATTS					
CONNECTED LOAD-AMPS			135		164		156					FEEDER LOAD-AMPS					
CONTINUOUS LOAD																	
RECIPROCALLS																	
NON-CONTINUOUS LOAD																	
OTHER DIVERSIFIED LOAD																	
		@ 0.5															

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ELECTRICAL PANEL SCHEDULE													
PANEL: H2-1B				LOCATION:				MOUNTING SURFACE:					
BUS: 225 A		MAINS:	M.O.	VOLTAGE:		120/208		PHASE/WIRE:		3/4		KALC: 10	
		WATTS				POLE		WATTS					
DESCRIPTION	A	B	C	BRKR	WIRE		WIRE	BRKR	A	B	C	DESCRIPTION	
BLH-A	1250			20	12 55	56			500			LIGHTING	
		1250		2P	12 57	58				500		LIGHTING	
BLH-C				20	12 59	60					600	POWER	
BLH-C		850		20	12 61	62			600			POWER	
WM-2/4			1500	25	10 63	64				400		POWER	
					05	66					400	POWER	
					07	68			800			POWER	
					09	70				400		POWER	
					11	72					800	POWER	
					13	74			500			POWER	
					15	76				400		POWER	
					17	78					400	POWER	
					19	80			600			POWER	
					21	82				400		POWER	
					23	84							
					25	86							
					27	88							
					29	90							
					31	92							
					33	94							
					35	96							
CONNECTED LOAD-WATTS	5100	4910	3050						FEEDER LOAD-WATTS				
CONNECTED LOAD-AMPS	43	41	25						FEEDER LOAD-AMPS				
CONTINUOUS LOAD									FEEDER WIRE				
NON-CONTINUOUS LOAD									FEEDER OCP				
OTHER DIVERSIFIED LOAD													

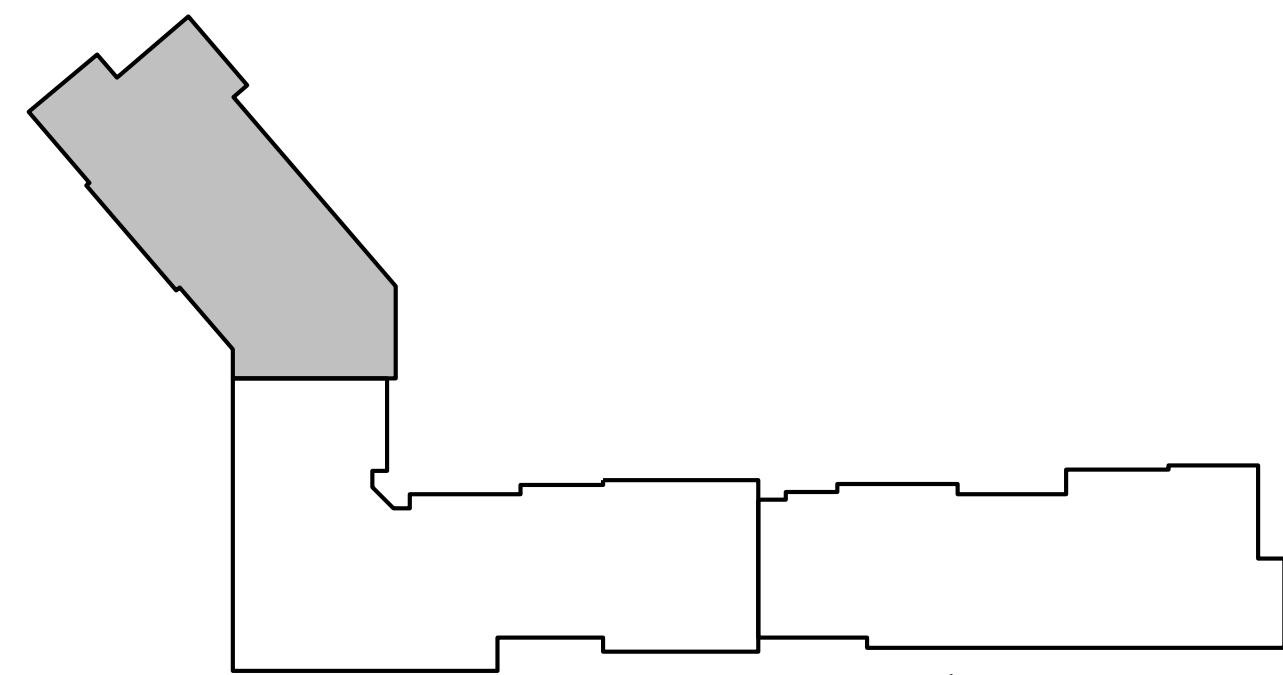
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LS&A
Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com

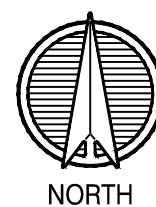
LSA PROJECT NO. 2104008



1 BLDG 1-A, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" HVAC NORTH



KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104008

- NOTES:
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

- LEGEND:
- ① OUTSIDE AIR CONTROL AND BALANCING DAMPER.
 - ② DUCT WITH CRD AT RATED MEMBRANE.
 - ③ ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
 - ④ 16x8 TYPE 'E' GRILLES, ONE HIGH, ONE LOW FOR RA PATH IN STUD SPACE. LINE SPACE WITH METAL.

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
7-15-21

ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

TRI ARCHITECTS
STRUCTURAL
CIVIL
GENERAL CONTRACTOR
ENGINEER
PLUMBING
ELECTRICAL

Together
DEVELOPMENT

The Signature at West Pryor

2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



TRI Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63114
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T: 314-385-9750
www.triarchitects.com

DATE: 7.15.2021

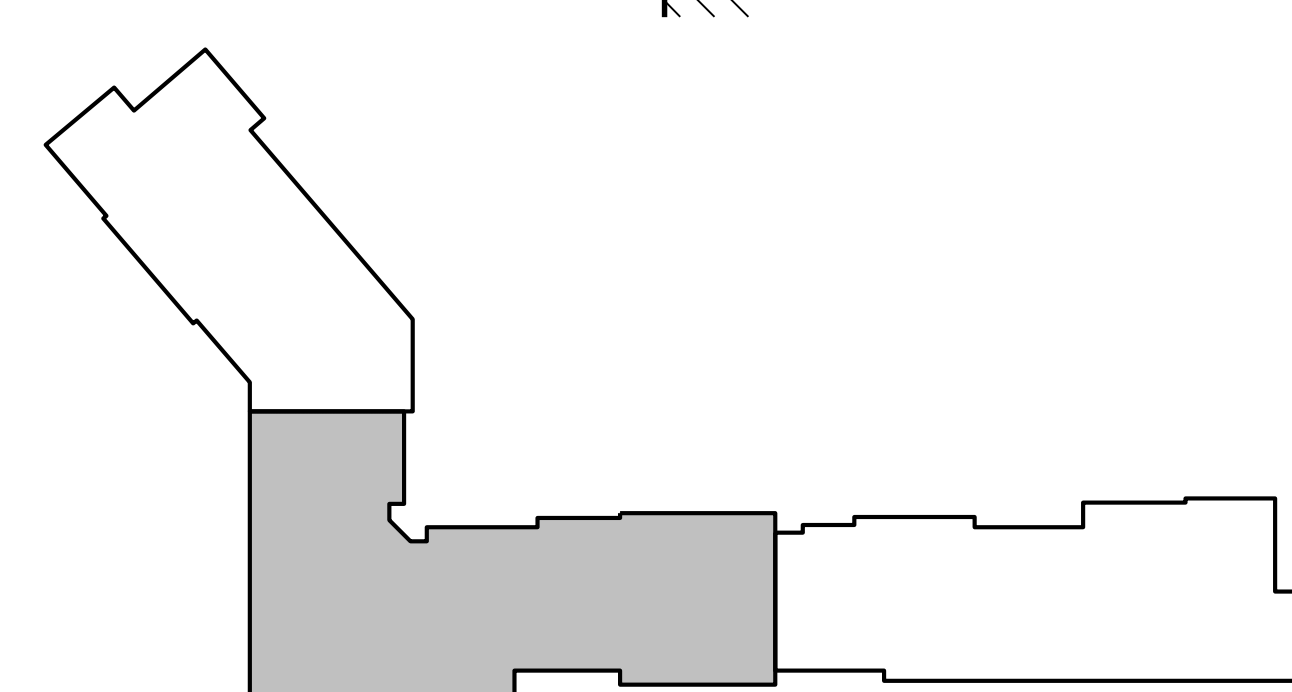
REVISIONS

DWG BY CAD/RRB

TR,I PROJECT NO. 20-001

SHEET NO.

M101
BLDG 1-A, PARTIAL FIRST FLOOR
PLAN - HVAC



LEGEND:	
①	OUTSIDE AIR CONTROL AND BALANCING DAMPER.
②	DUCT WITH CRD AT RATED MEMBRANE.
③	ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
④	16x8 TYPE "E" GRILLES, ONE HIGH, ONE LOW FOR RA PATH IN STUD SPACE. LINE SPACE WITH METAL.

LS&A
Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com

LSA PROJECT NO. 2104008

TRI
ARCHITECTS

TRI Architects
1790 S. Brentwood Blvd.
St. Louis, Missouri 63144
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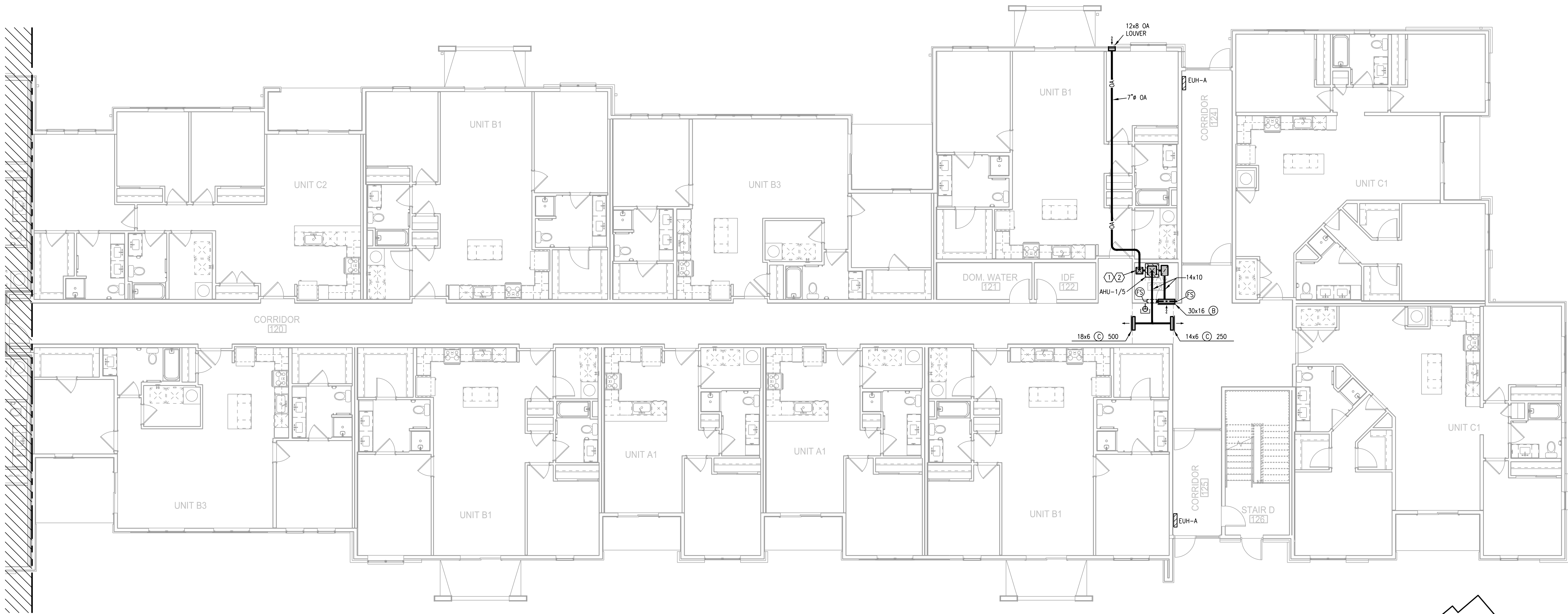
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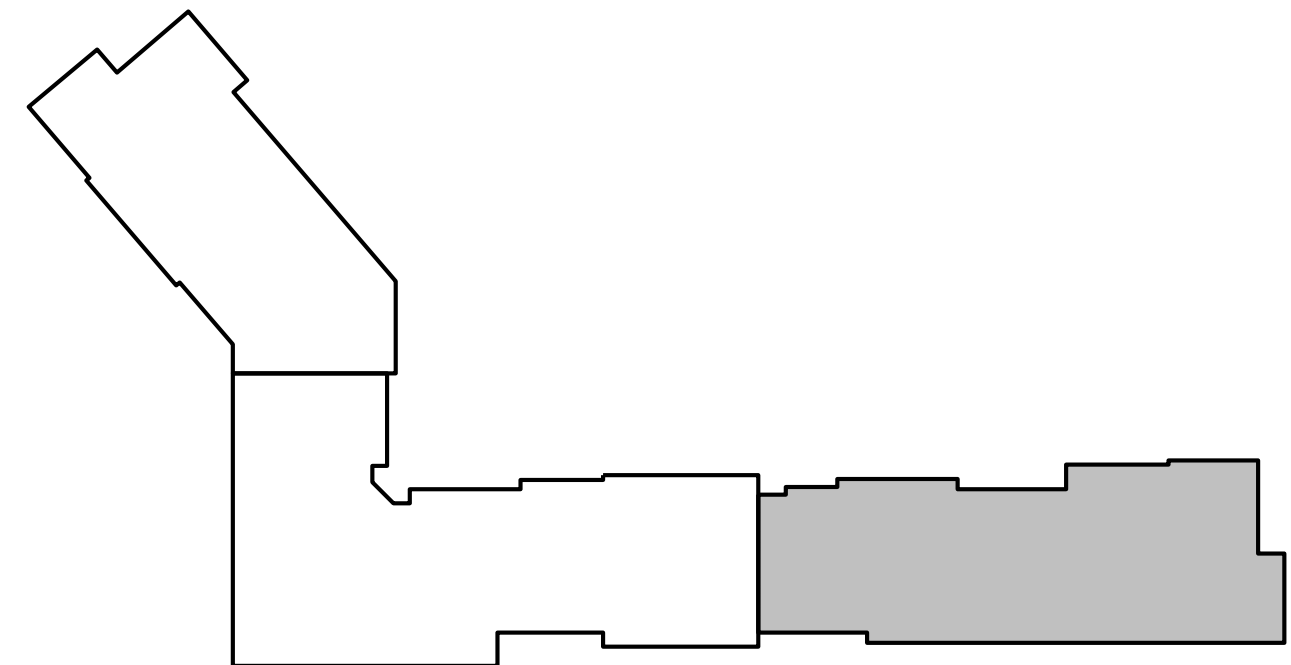
TR,i PROJECT NO. 20-

SHEET NO. _____

M102
BLDG 1-B, PARTIAL FIRST FLOOR
PLAN - HVAC



1 BLDG 1-C, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" HVAC NORTH



KEY PLAN
NO SCALE NORTH

LS&A
Lattimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@aol.com
LSA PROJECT NO. 210408

- NOTES:
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

- LEGEND:
- ① OUTSIDE AIR CONTROL AND BALANCING DAMPER.
 - ② DUCT WITH CRD AT RATED MEMBRANE.
 - ③ ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
 - ④ 16x8 TYPE "E" GRILLES, ONE HIGH, ONE LOW FOR RA PATH IN STUD SPACE. LINE SPACE WITH METAL.

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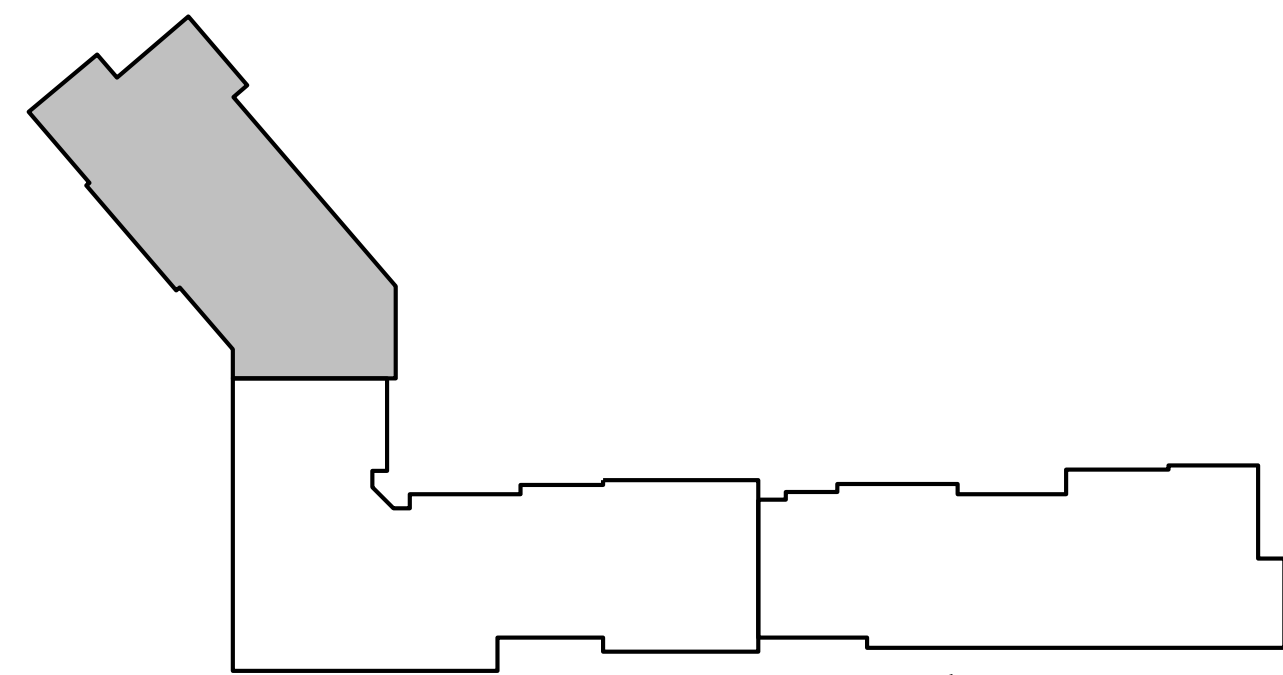
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SHEET NO.

M103
BLDG 1-C, PARTIAL FIRST FLOOR
PLAN - HVAC



1 BLDG 1-A, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" HVAC NORTH



KEY PLAN
NO SCALE NORTH

LS&A
Lattimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104008

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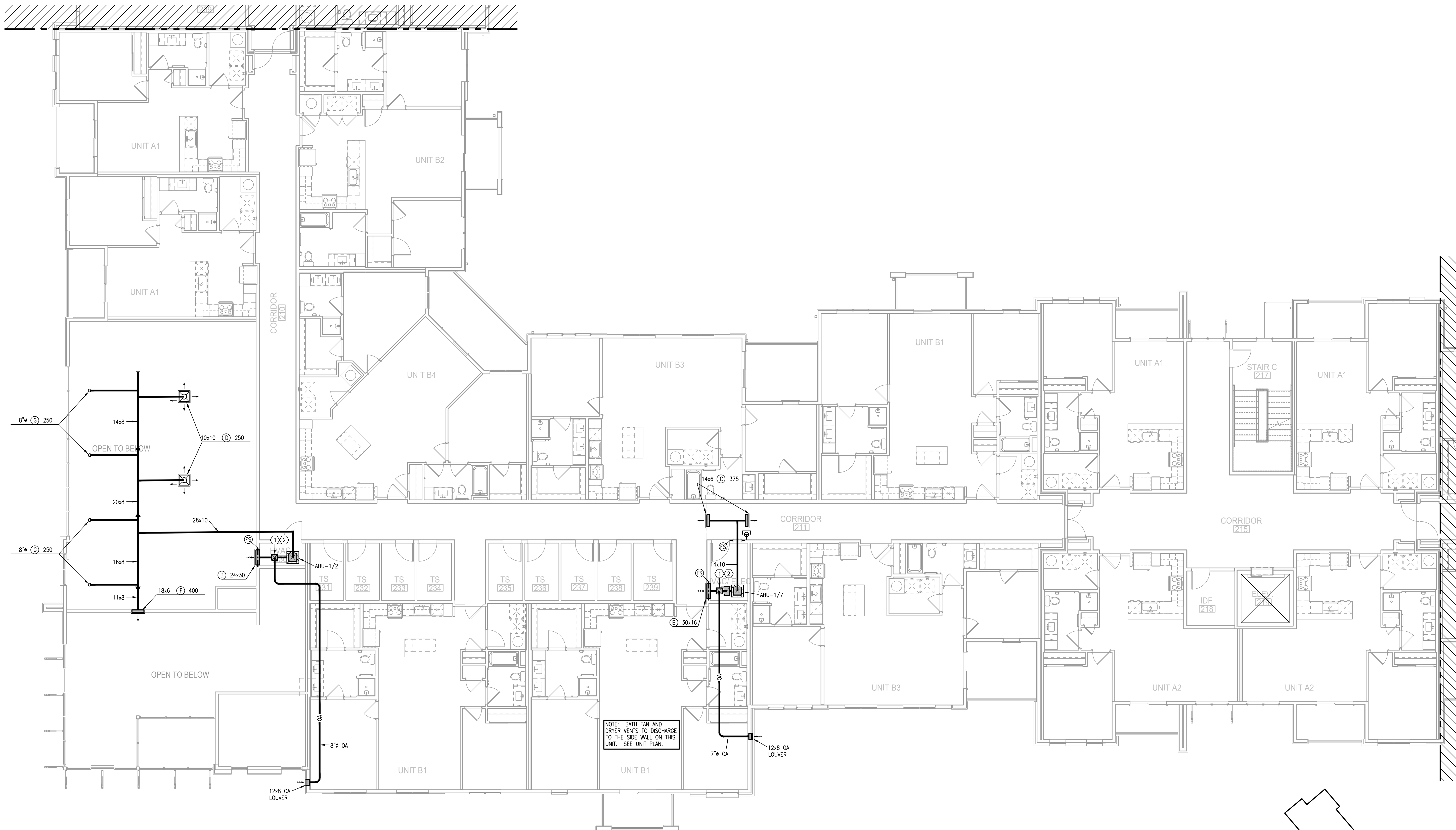
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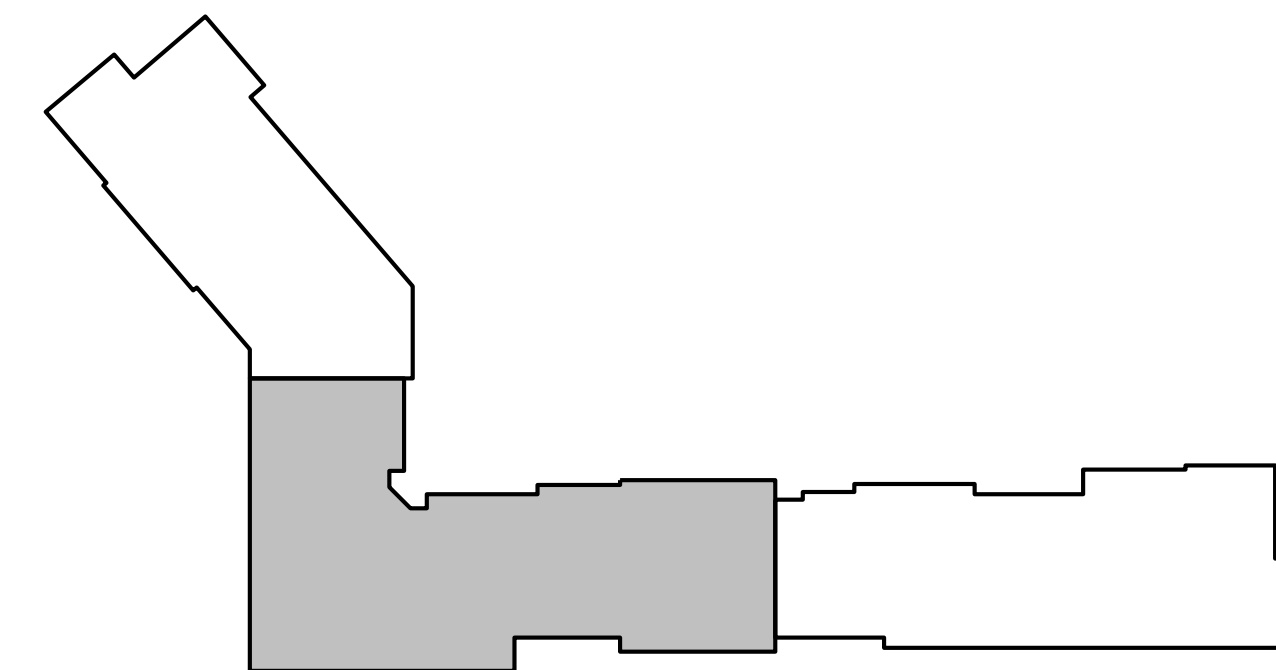
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SHEET NO.

M104
BLDG 1-A, PARTIAL SECOND
FLOOR PLAN - HVAC



1 BLDG 1-B, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" HVAC



KEY PLAN
NO SCALE



LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
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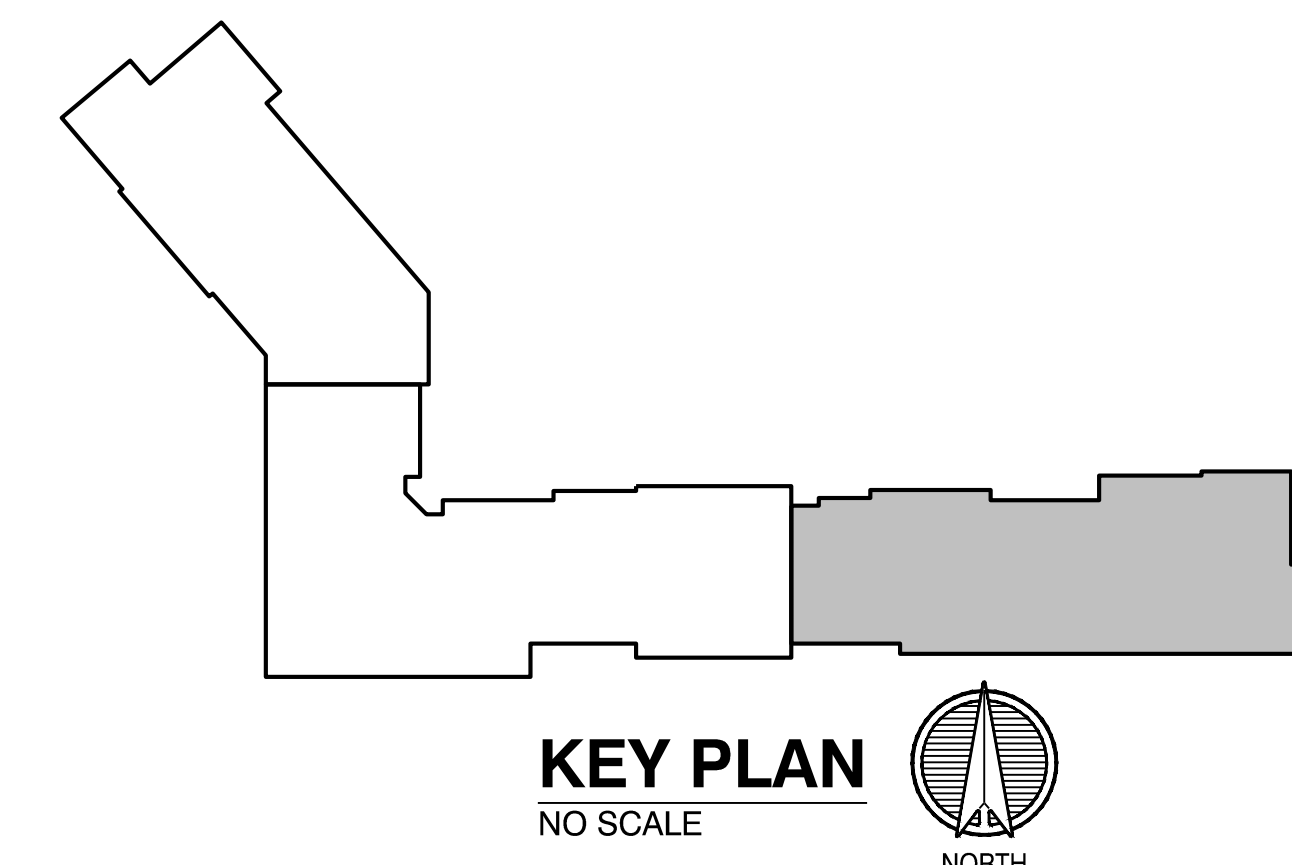
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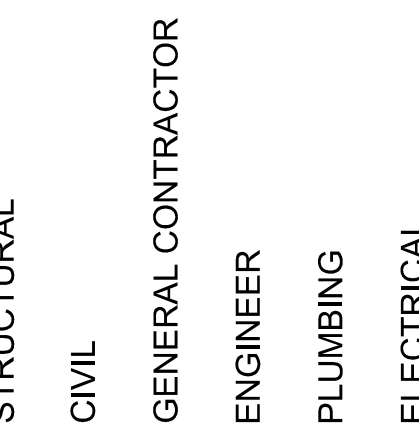
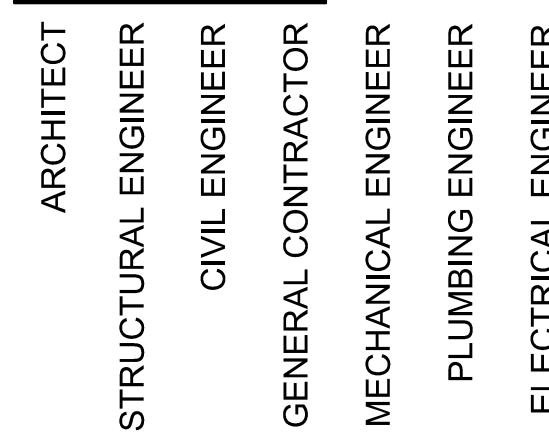
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SHEET NO.

M105
BLDG 1-B, PARTIAL SECOND
FLOOR PLAN - HVAC



LEGEND:	
①	OUTSIDE AIR CONTROL AND BALANCING DAMPER.
②	DUCT WITH CRD AT RATED MEMBRANE.
③	ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
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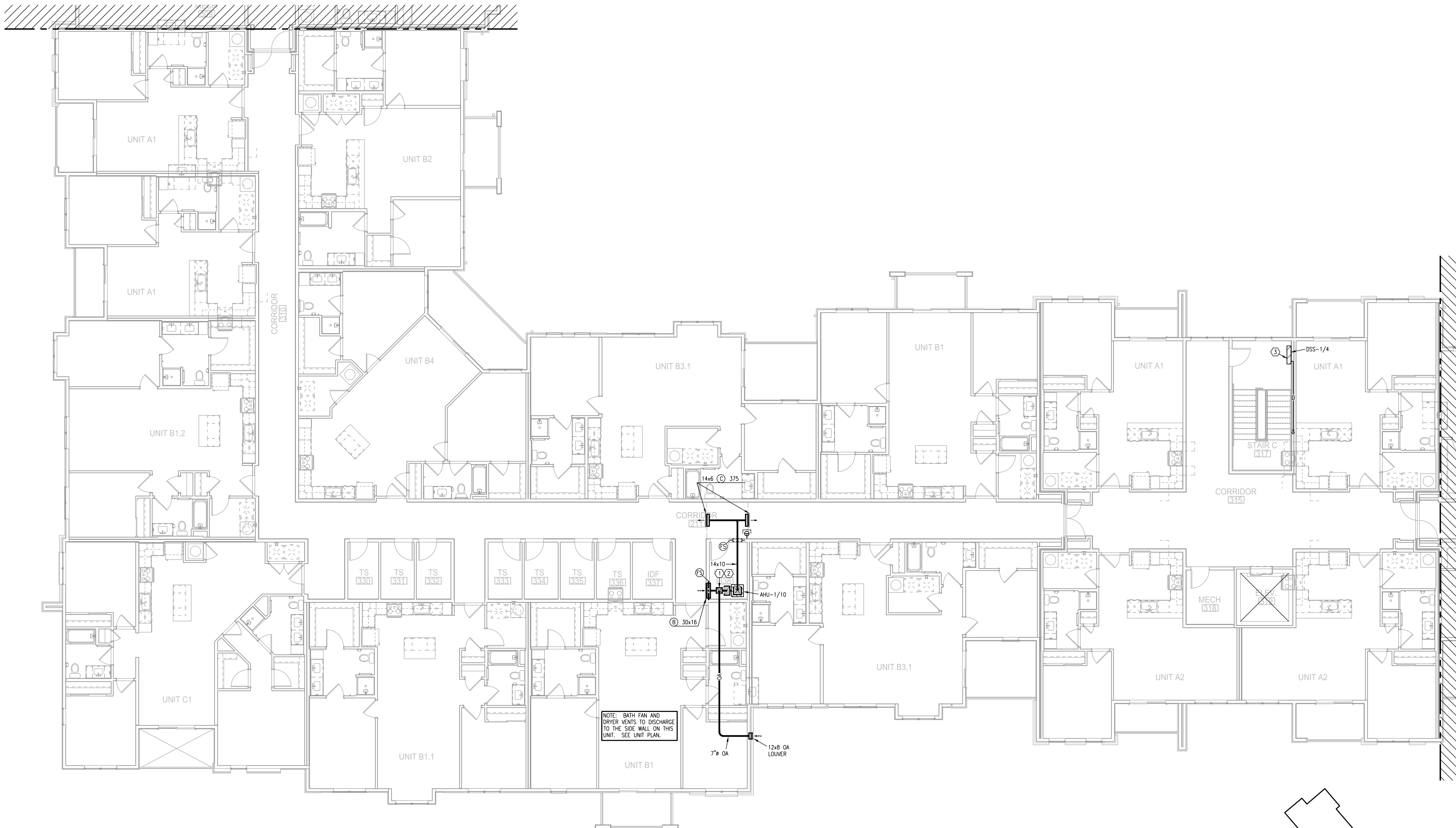
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SHEET NO.

M106

**BLDG 1-C, PARTIAL SECOND
FLOOR PLAN - HVAC**

LS&A
Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104008



1 BLDG 1-B, PARTIAL THIRD FLOOR PLAN
1/8"=1'-0" HVAC NORTH

KEY PLAN
NO SCALE NORTH

LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lepa@lsaa.com
LSA PROJECT NO. 210408

- NOTES:
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
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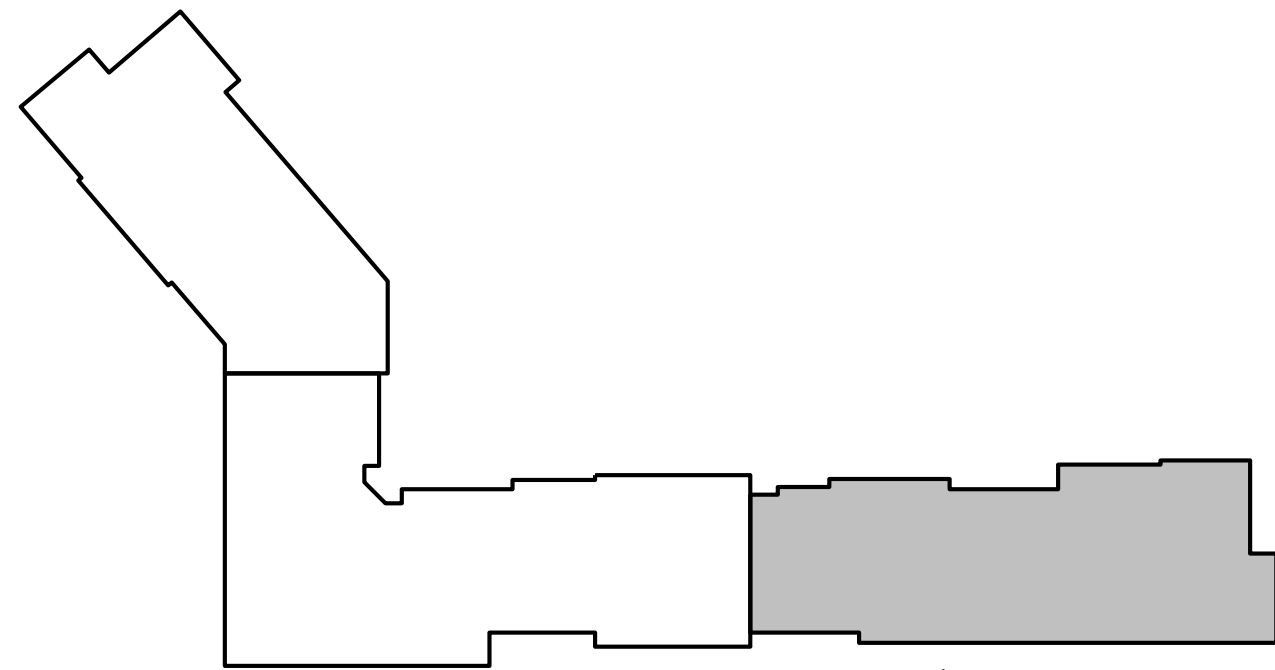
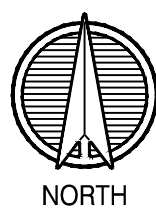
M108
BLDG 1-B, PARTIAL THIRD FLOOR
PLAN - HVAC



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1 BLDG 1-C, PARTIAL THIRD FLOOR PLAN
1/8"=1'-0"



KEY PLAN
NO SCALE



LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsaa.com
LSA PROJECT NO. 2104008

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STRUCTURAL ENGINEER
CIVIL ENGINEER
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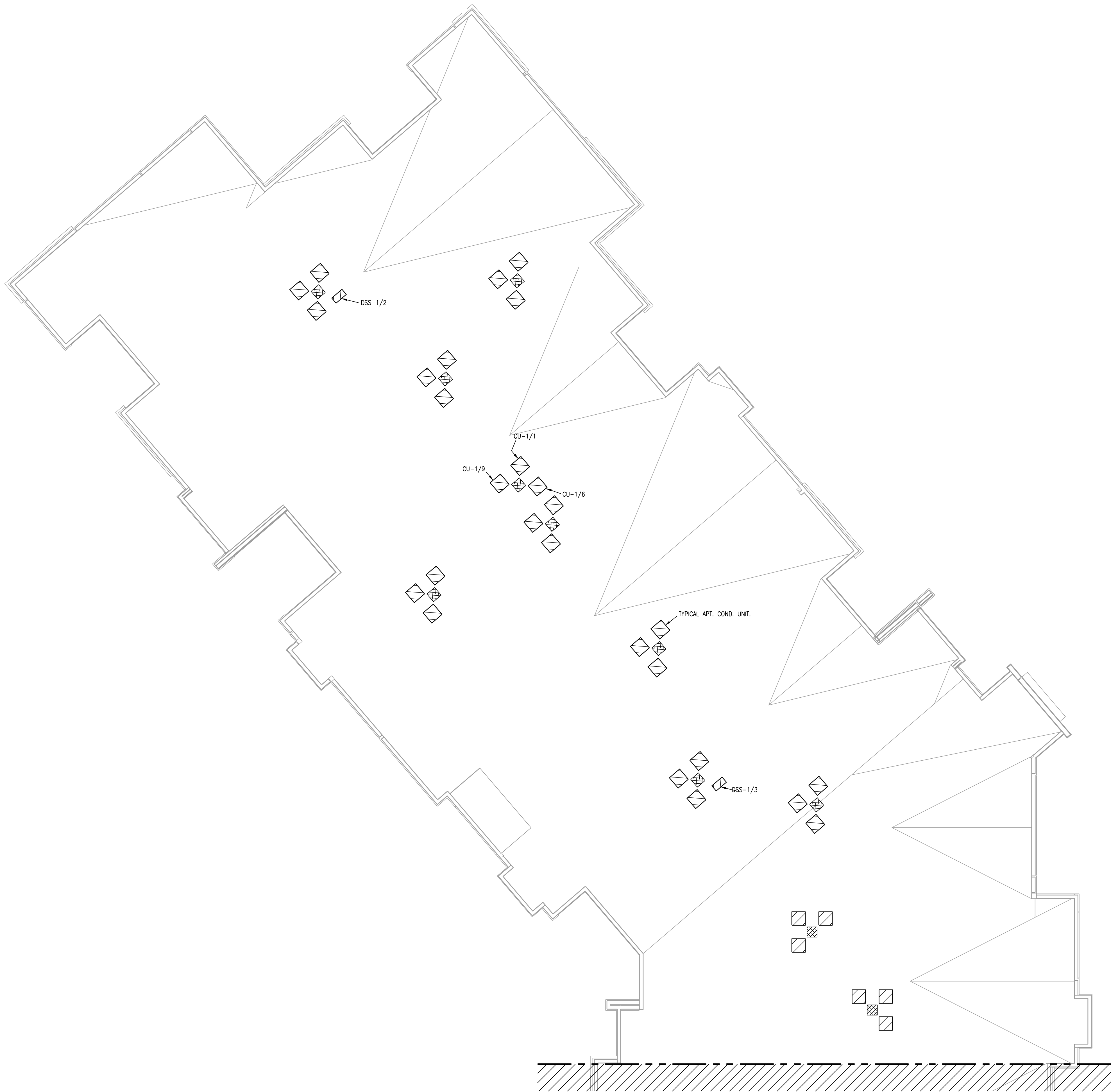
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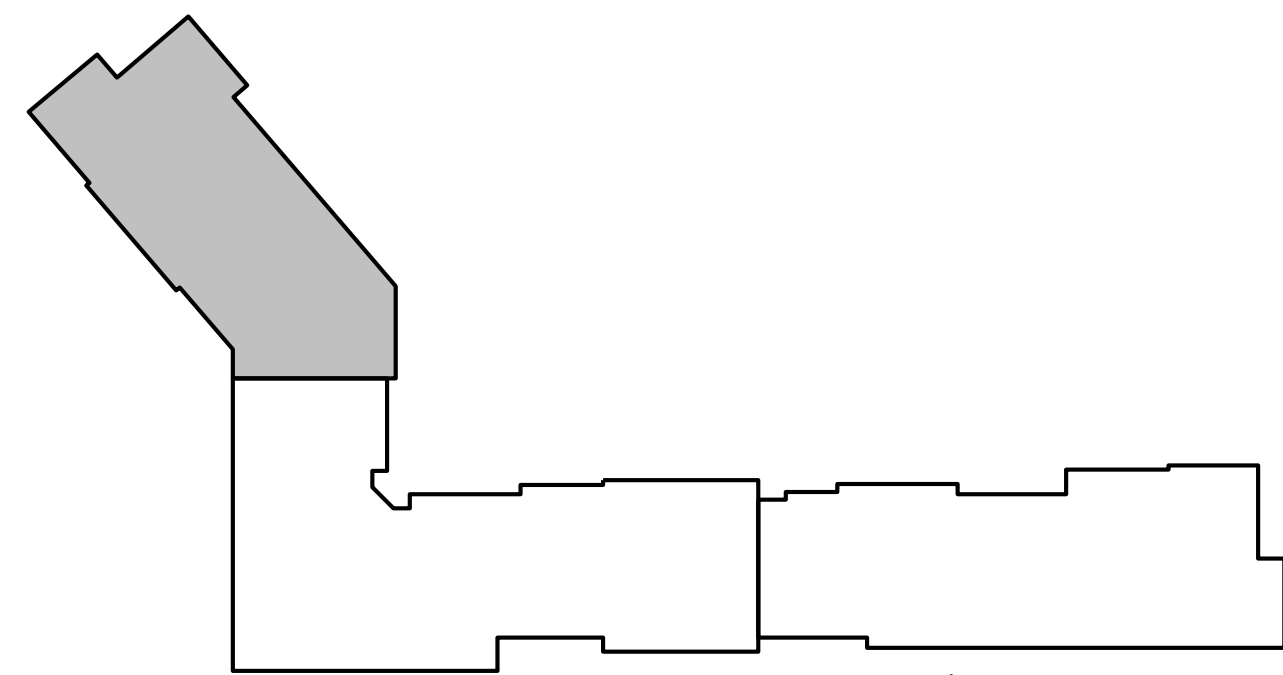
SHEET NO.

M109

BLDG 1-C, PARTIAL THIRD FLOOR
PLAN - HVAC



1 BLDG 1-A, PARTIAL ROOF PLAN
1/8"=1'-0"



KEY PLAN
NO SCALE



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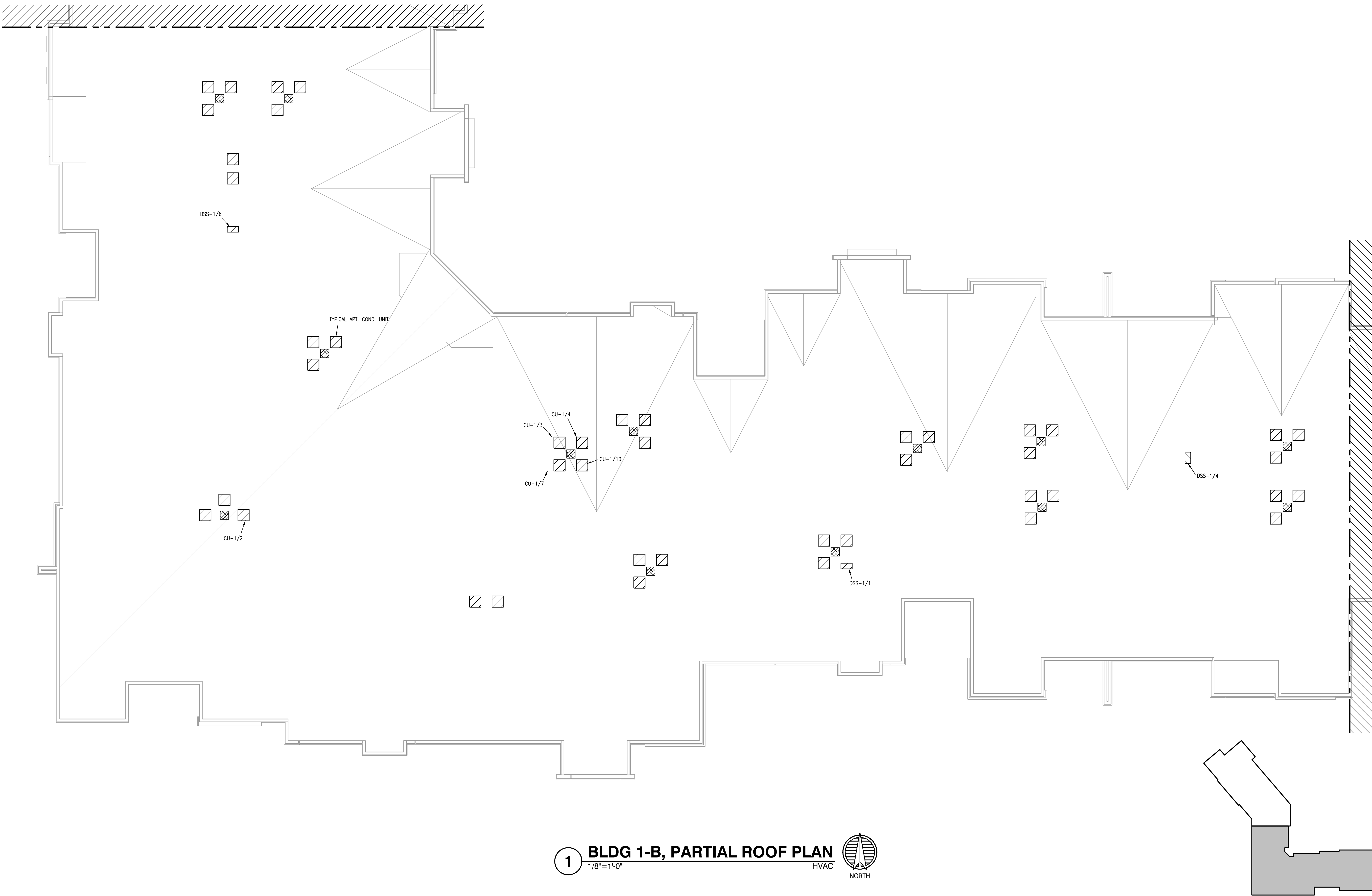
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SHEET NO.

M110
BLDG 1-A, PARTIAL ROOF PLAN -
HVAC

Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104008



1 BLDG 1-B, PARTIAL ROOF PLAN
1/8"=1'-0" HVAC



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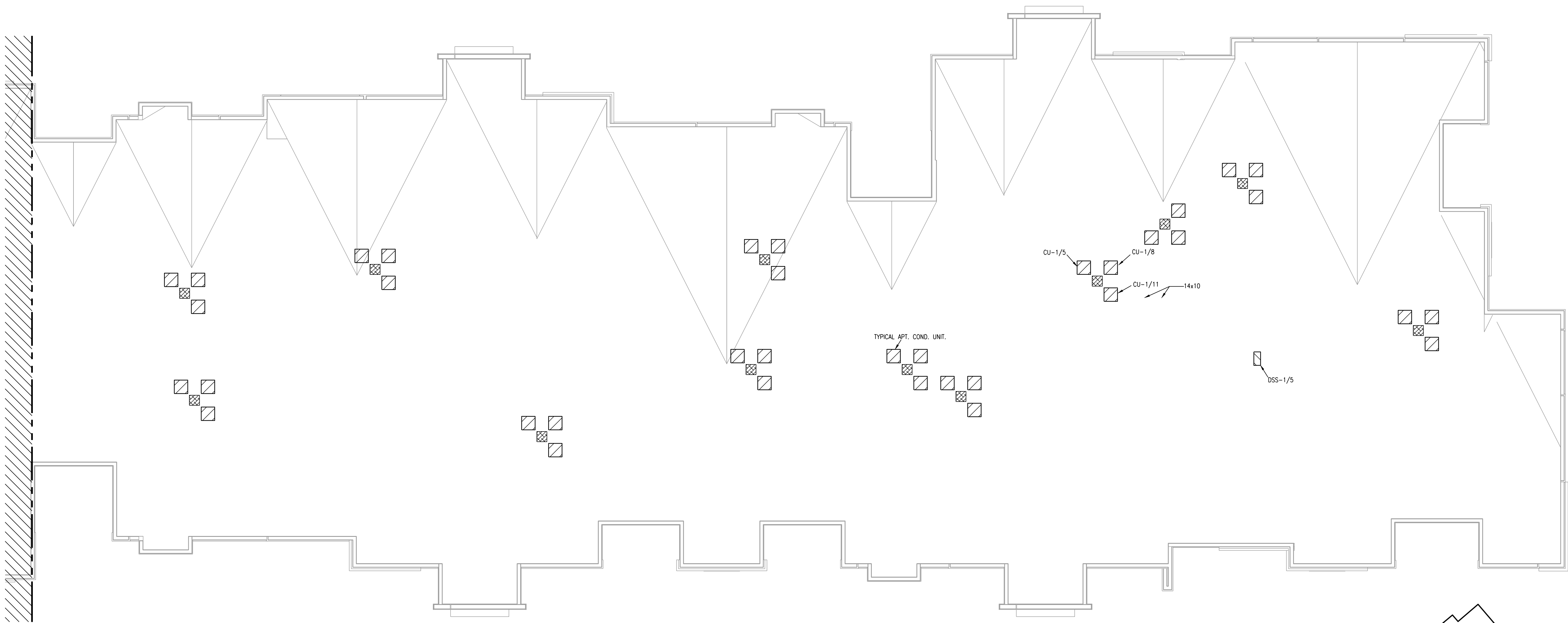
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SHEET NO.

M111
BLDG 1-B, PARTIAL ROOF PLAN -
HVAC



Latimer Sommers
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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
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1 BLDG 1-C, PARTIAL ROOF PLAN
1/8"=1'-0" HVAC NORTH

KEY PLAN
NO SCALE NORTH

LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
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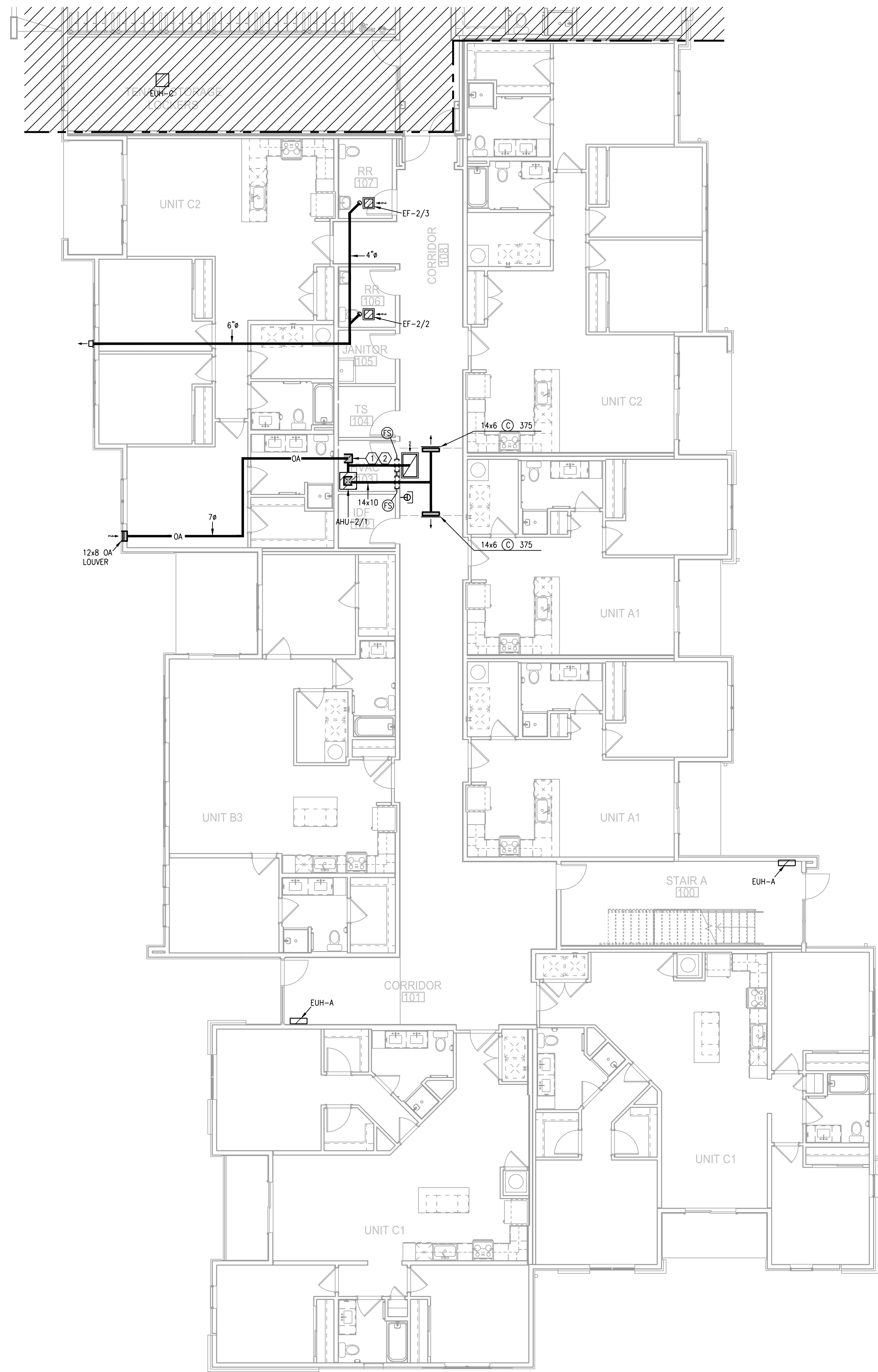
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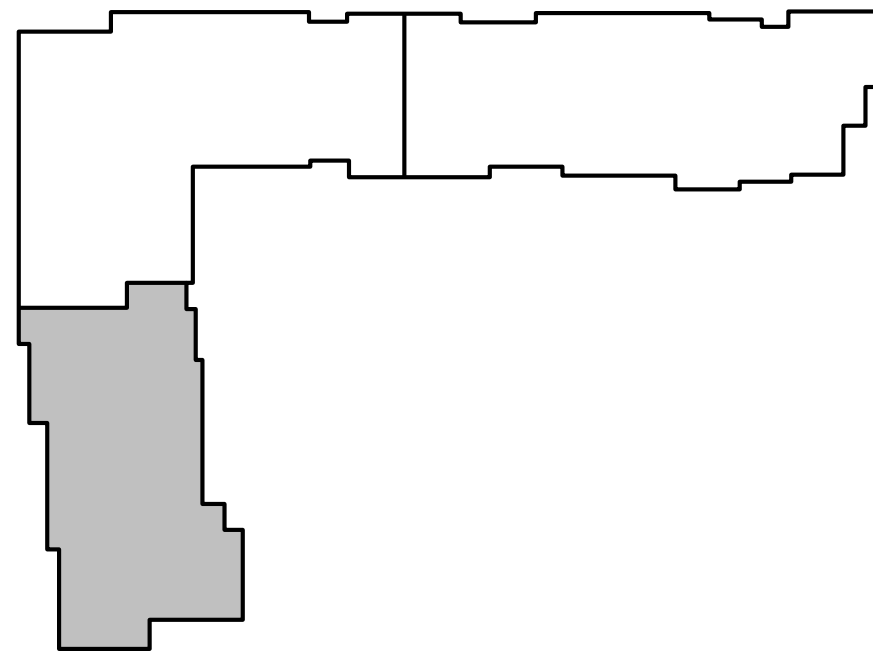
M112
BLDG 1-C, PARTIAL ROOF PLAN - HVAC



1 BLDG 2-A, PARTIAL FIRST FLOOR PLAN
1/8" = 1'-0" HVAC NORTH

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KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
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DATE: 7.15.2021

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TR,I PROJECT NO. 20-001

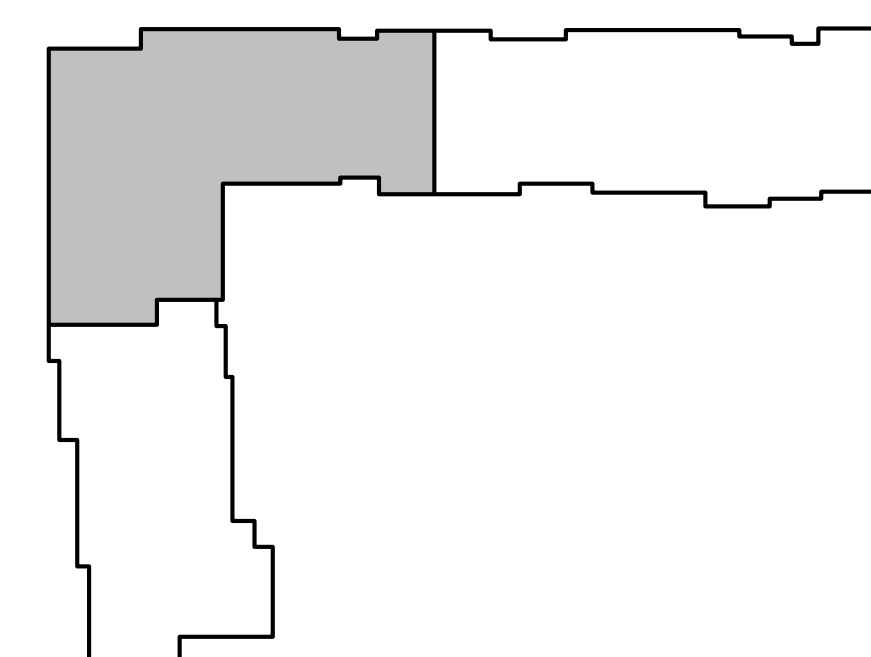
SHEET NO.

M113
BLDG 2-A, PARTIAL FIRST FLOOR
PLAN - HVAC

- 7-15-21

ARCHITECT	
STRUCTURAL ENGINEER	
CIVIL ENGINEER	
GENERAL CONTRACTOR	
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PLUMBING ENGINEER	
ELECTRICAL ENGINEER	

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- Tegethobbs
DEVELOPMENT

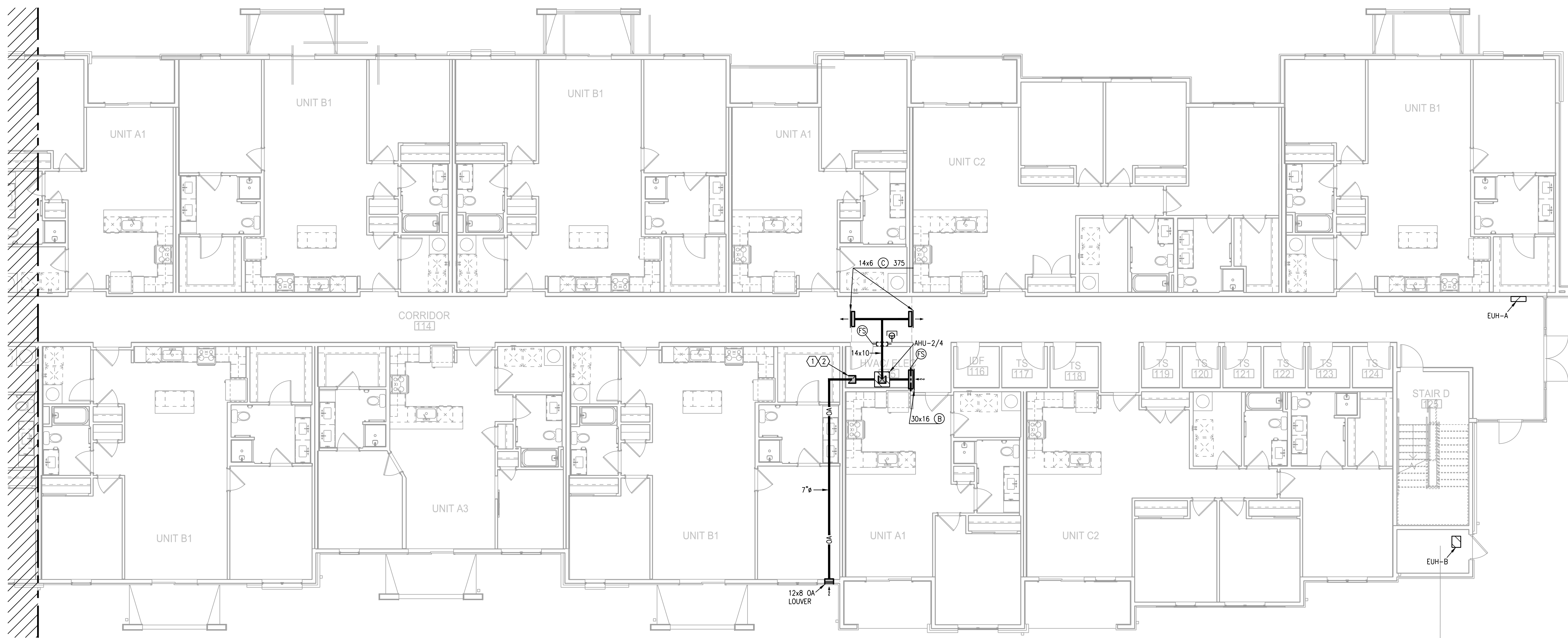


NORTH

LS&A
Lutimer Sommer
& Associates, P.C.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
E-Mail: lsapa@lsapa.com
LSA PROJECT NO. 2154009

BLDG 2-B, PARTIAL FIRST FLOOR
PLAN - HVAC





1 BLDG 2-C, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" HVAC NORTH

- NOTES:
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

- LEGEND:
- ① OUTSIDE AIR CONTROL AND BALANCING DAMPER.
 - ② DUCT WITH CRD AT RATED MEMBRANE.
 - ③ ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
 - ④ 16x8 TYPE "E" GRILLES, ONE HIGH, ONE LOW FOR RA PATH IN STUD SPACE. LINE SPACE WITH METAL.

KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104098

STATE OF MISSOURI
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7-15-21

ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
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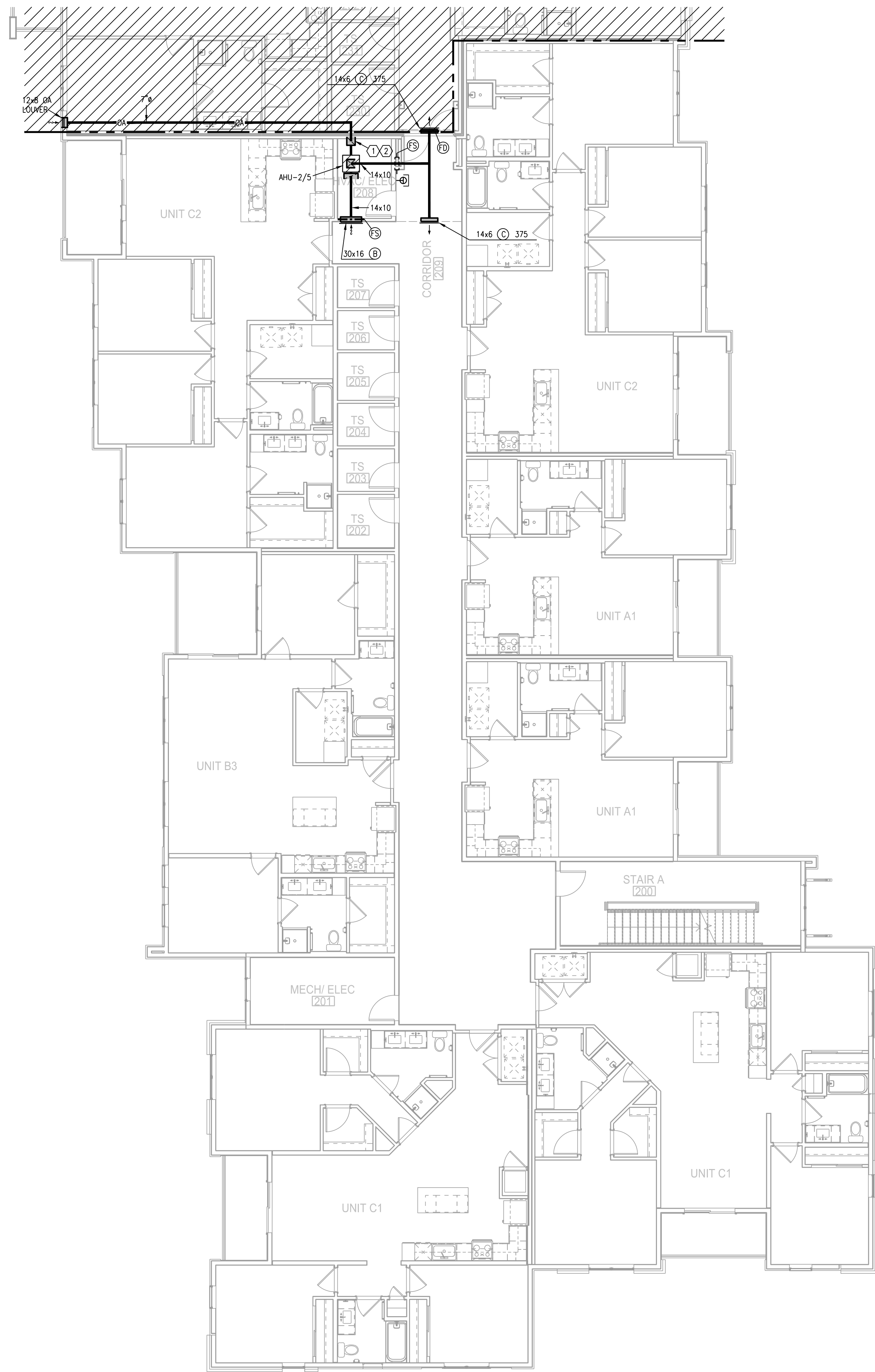
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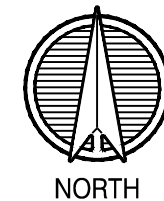
TR,I PROJECT NO. 20-001

SHEET NO.

M115
BLDG 2-C, PARTIAL FIRST FLOOR
PLAN - HVAC

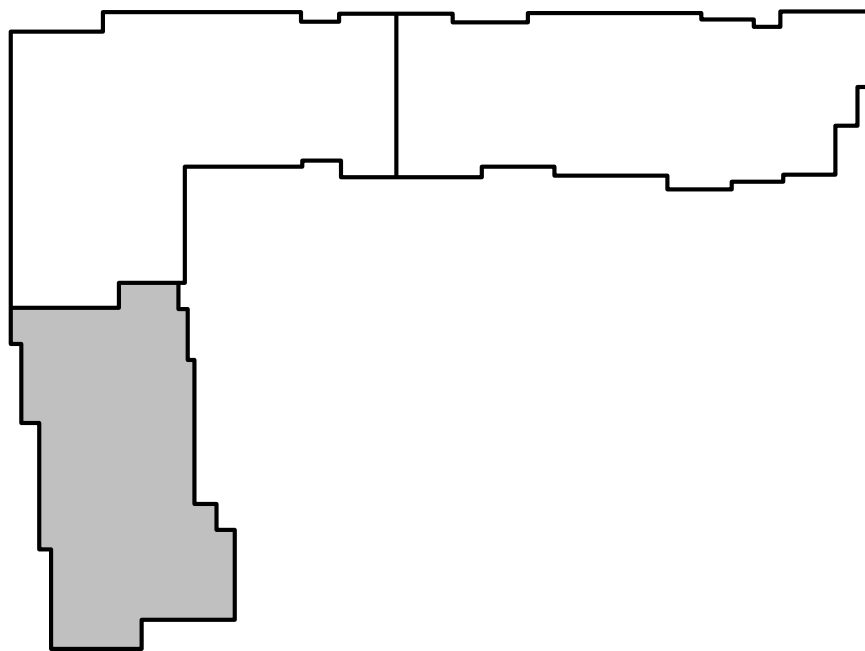


1 BLDG 2-A, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" HVAC



- NOTES:
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KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsaa.com
LSA PROJECT NO. 210408

STATE OF MISSOURI
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7-15-21

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STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
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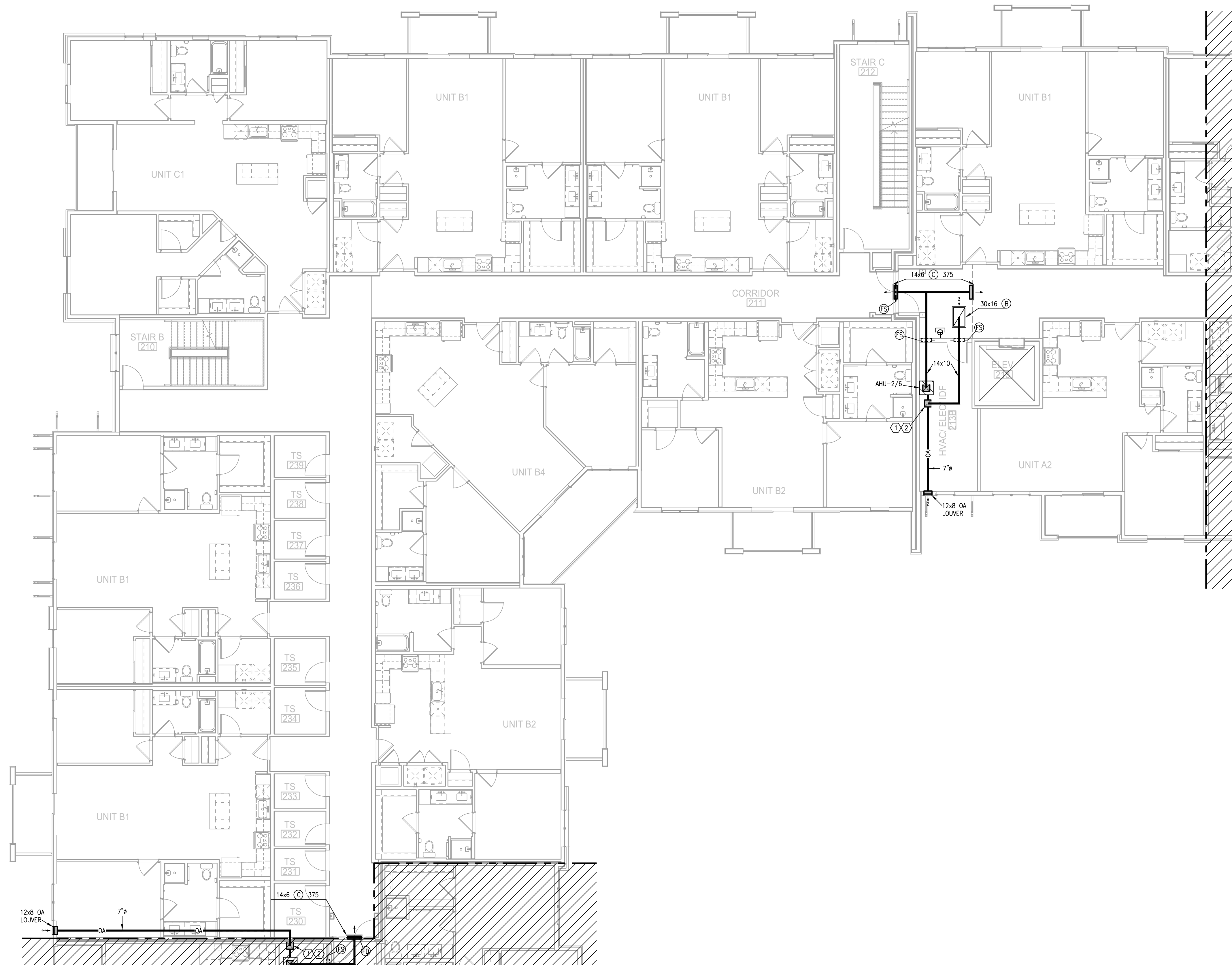
REVISIONS

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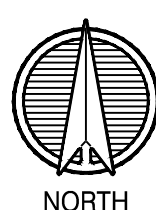
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SHEET NO.

M116
BLDG 2-A, PARTIAL SECOND
FLOOR PLAN - HVAC

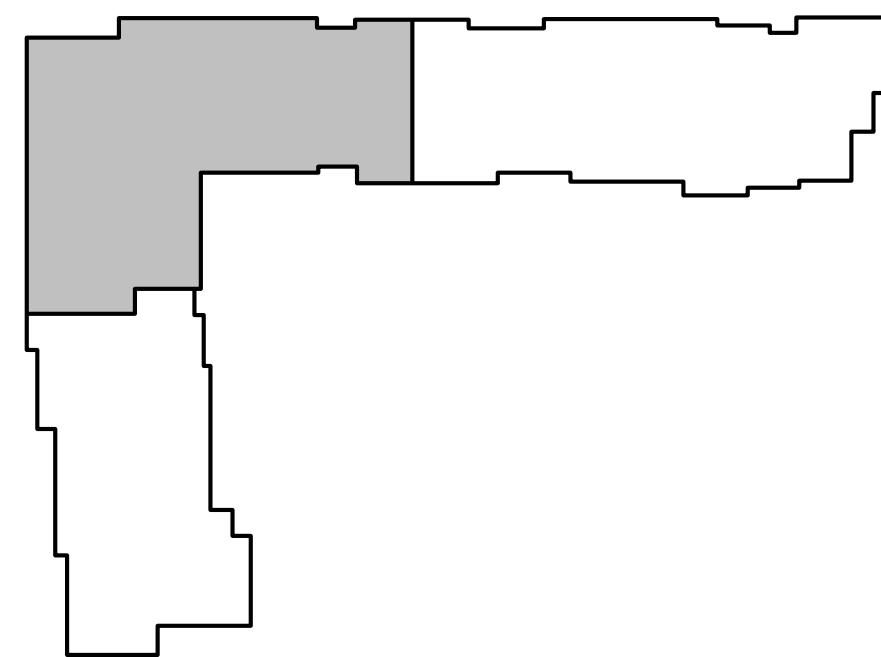


1 BLDG 2-B, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" HVAC



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KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 210408

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CIVIL ENGINEER
GENERAL CONTRACTOR
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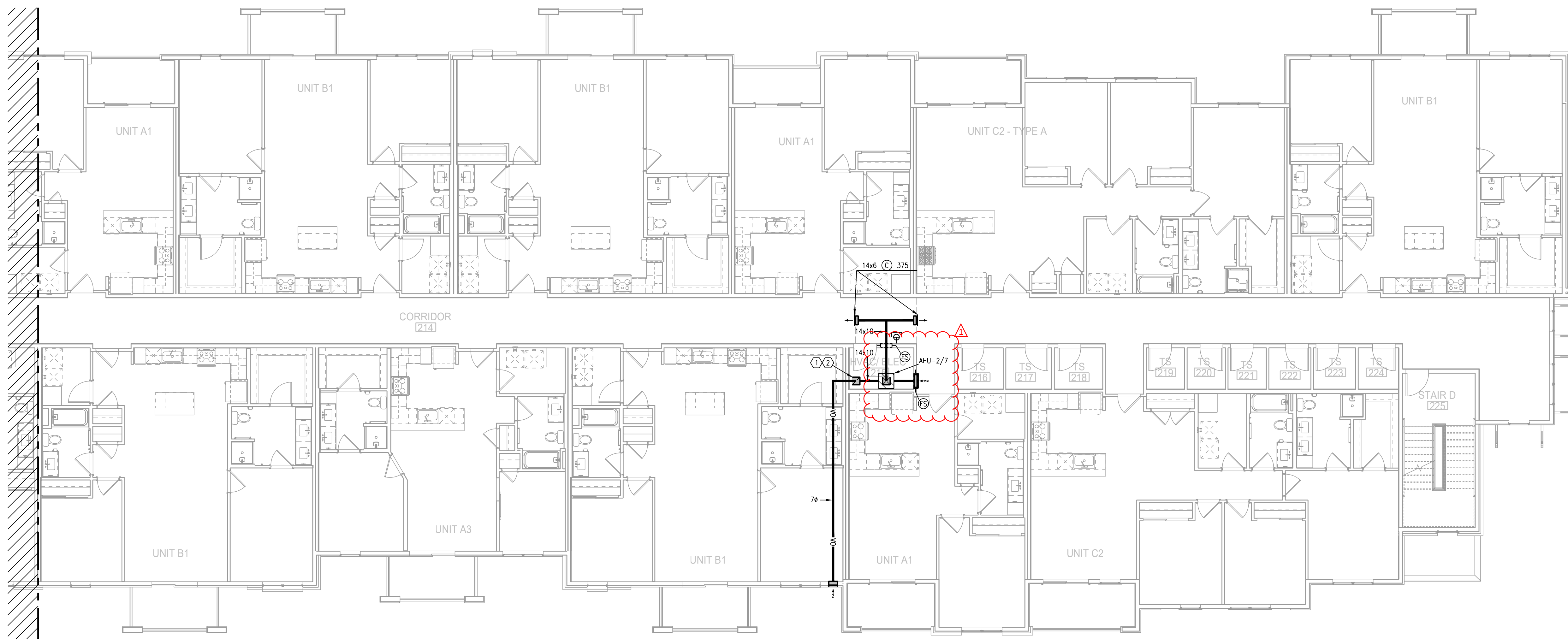
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M117

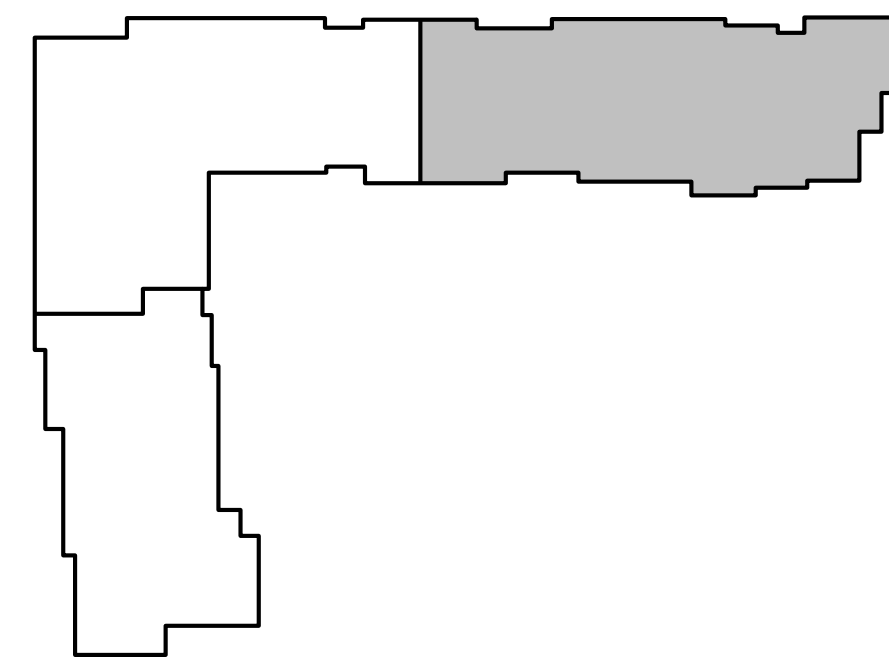
BLDG 2-B, PARTIAL SECOND
FLOOR PLAN - HVAC



1 BLDG 2-C, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" HVAC NORTH

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KEY PLAN
NO SCALE NORTH

LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsapa.com
LSA PROJECT NO. 2104008

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REVISIONS 2

△ PERMIT REVIEW COMMENTS 08-17-21

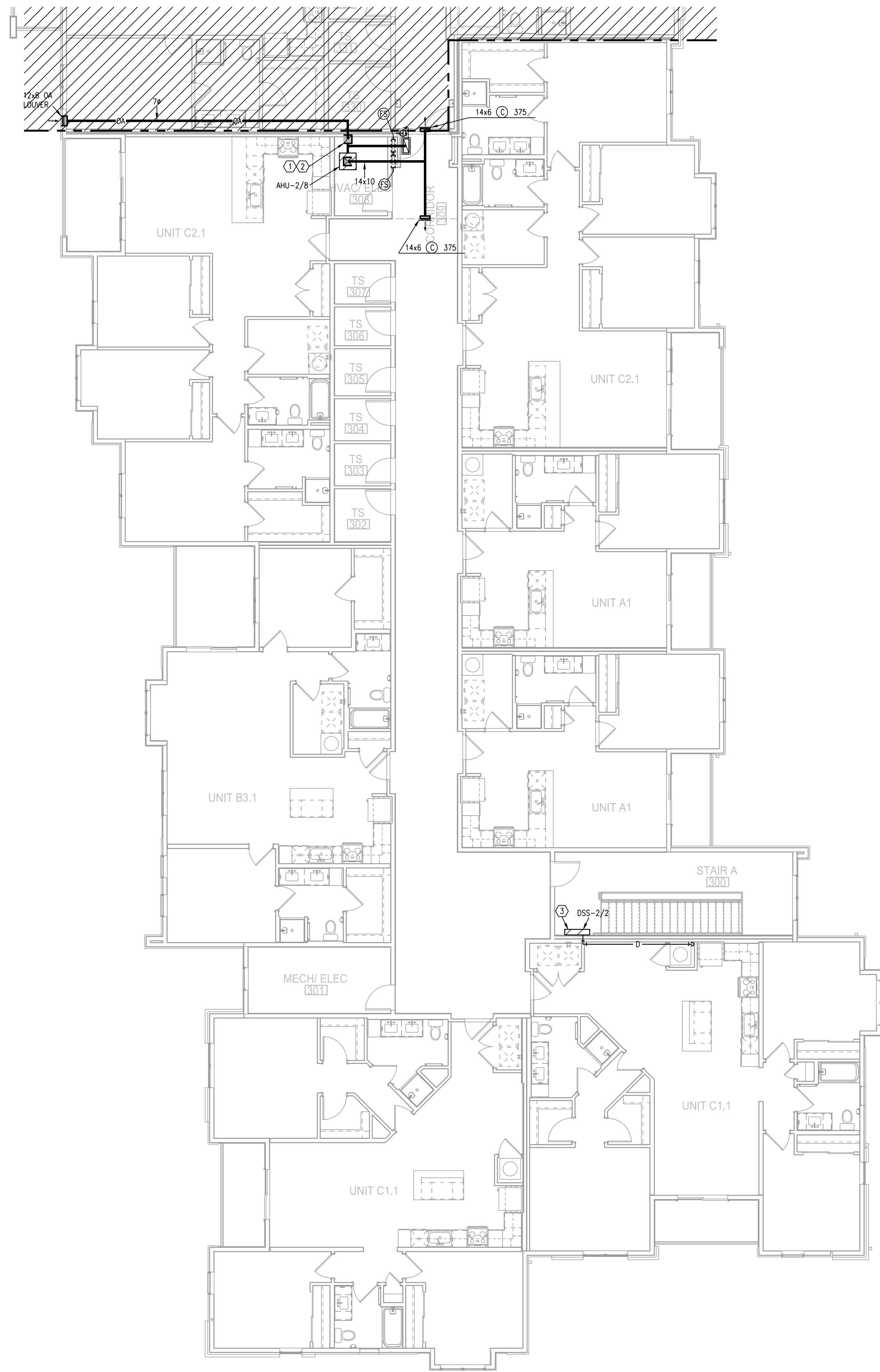
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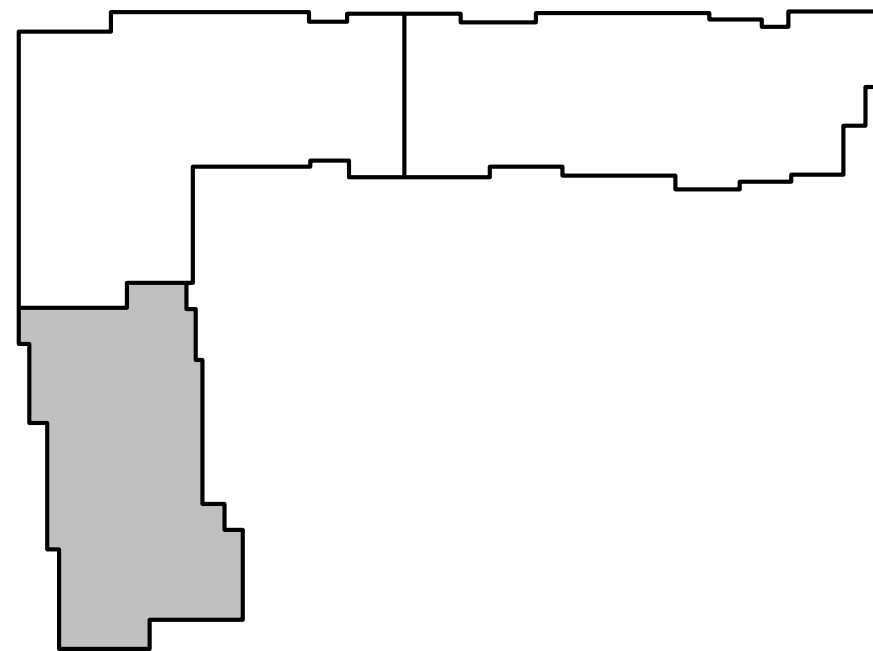
SHEET NO.

M118

BLDG 2-C, PARTIAL SECOND
FLOOR PLAN - HVAC



1 BLDG 2-A, PARTIAL THIRD FLOOR PLAN
1/8" = 1'-0" HVAC

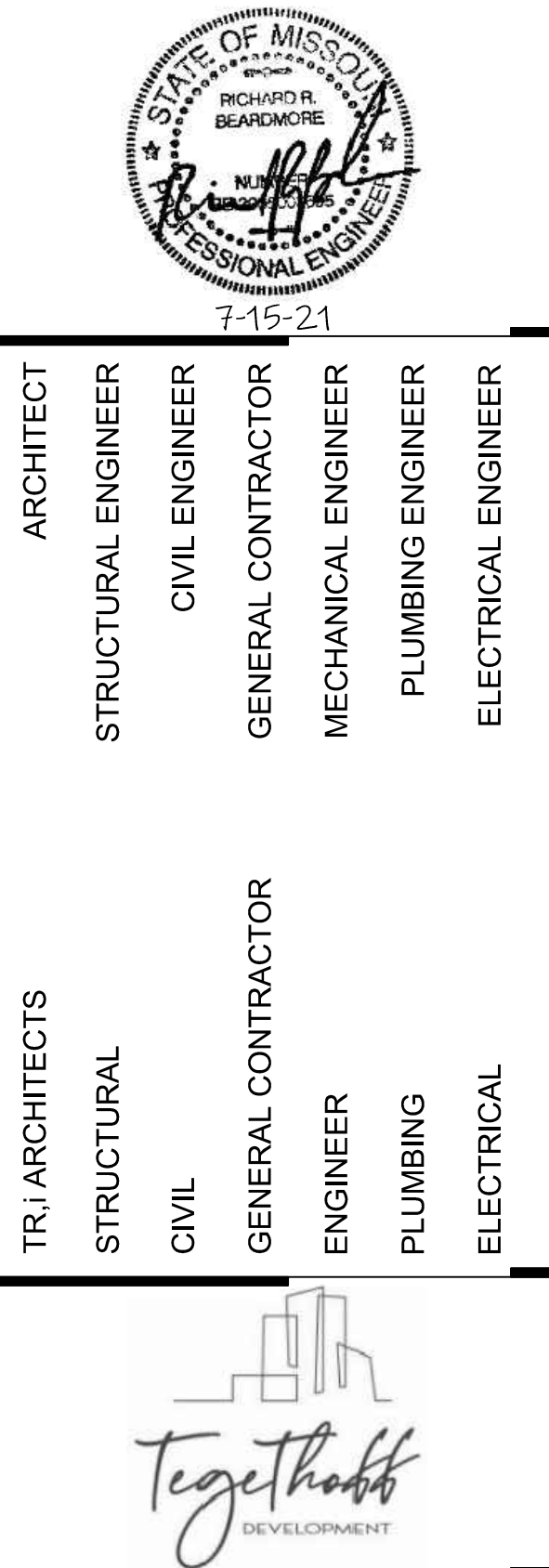


KEY PLAN
NO SCALE



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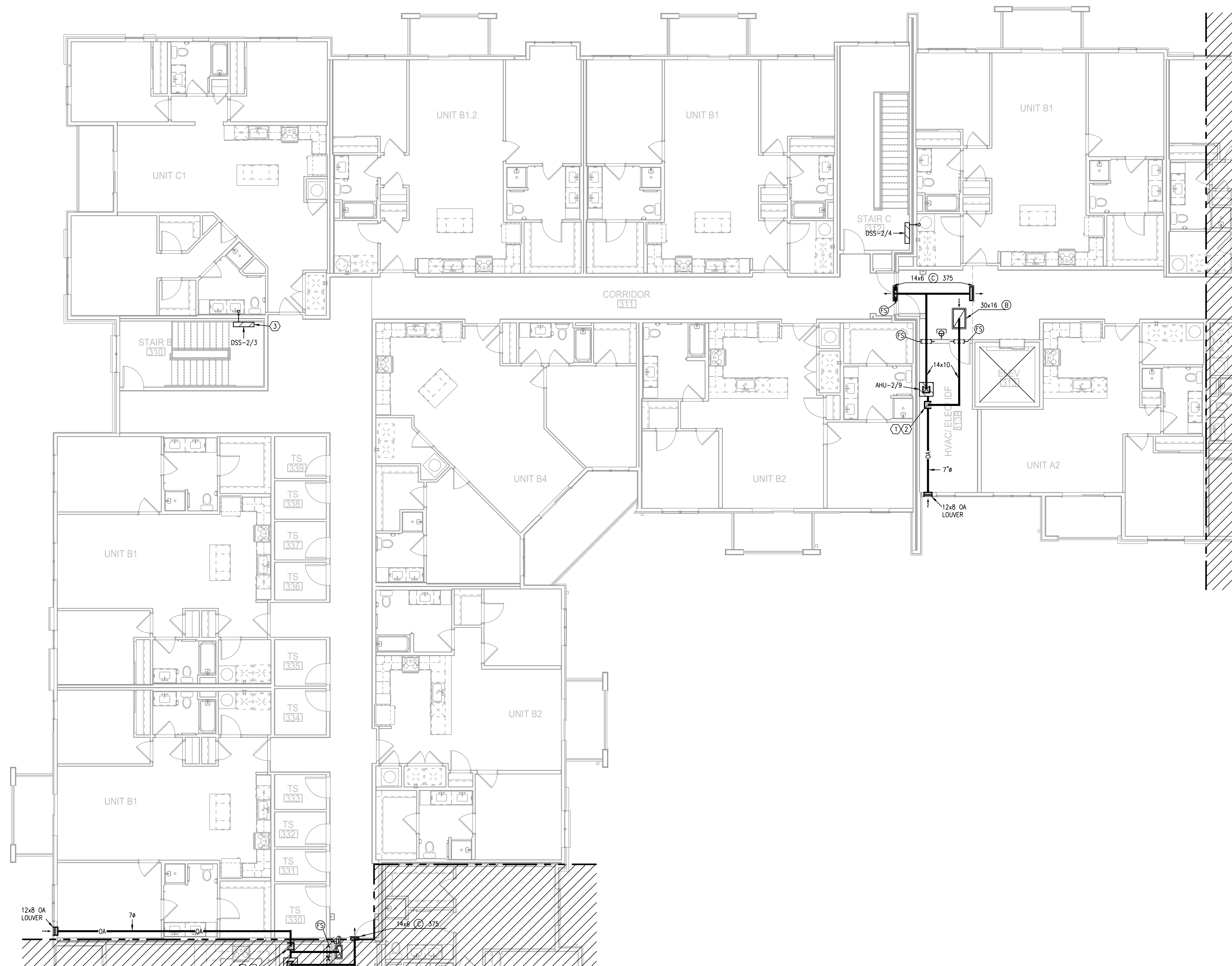
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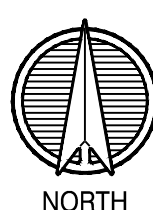
TR,I PROJECT NO. 20-001

SHEET NO.

M119
BLDG 2-A, PARTIAL THIRD FLOOR
PLAN - HVAC

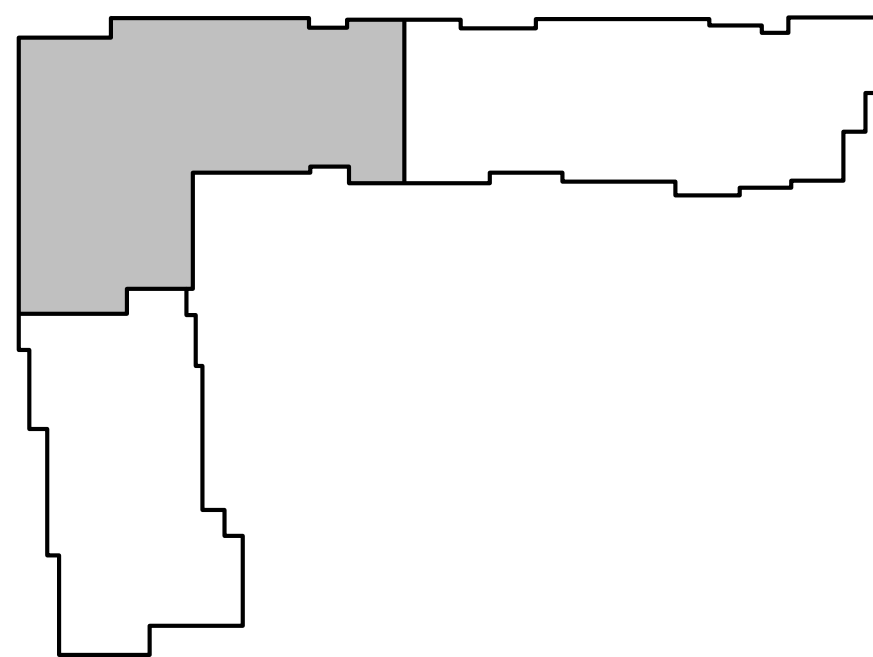


1 BLDG 2-B, PARTIAL THIRD FLOOR PLAN
1/8" = 1'-0" HVAC



- NOTES:
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KEY PLAN
NO SCALE



LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104008

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SHEET NO.

M120

BLDG 2-B, PARTIAL THIRD FLOOR
PLAN - HVAC



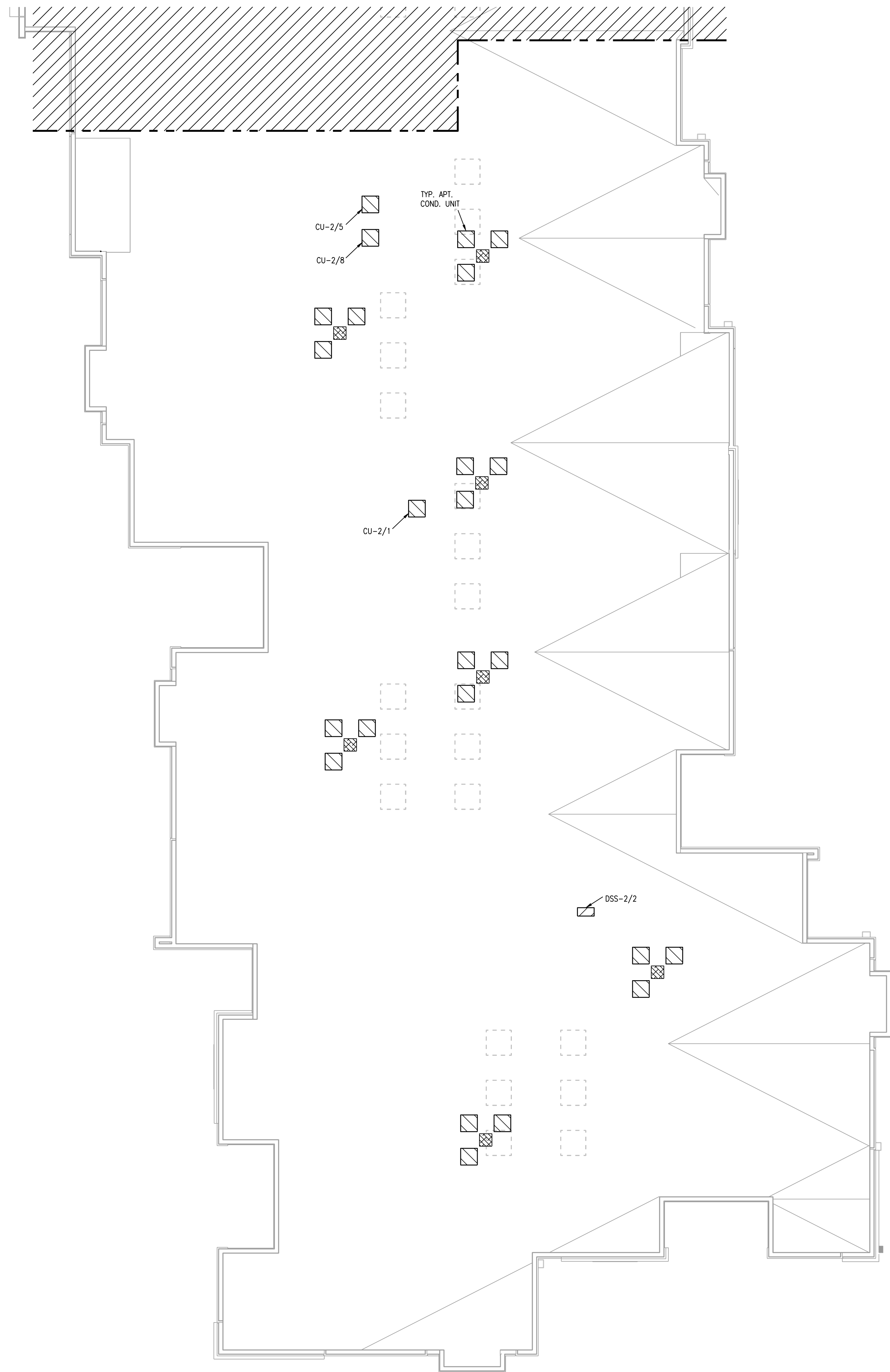
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Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lssapa@lsapa.com

LSA PROJECT NO. 2104008

BLDG 2-C, PARTIAL THIRD FLOOR
PLAN - HVAC

LEGEND:	
①	OUTSIDE AIR CONTROL AND BALANCING DAMPER.
②	DUCT WITH CRD AT RATED MEMBRANE.
③	ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
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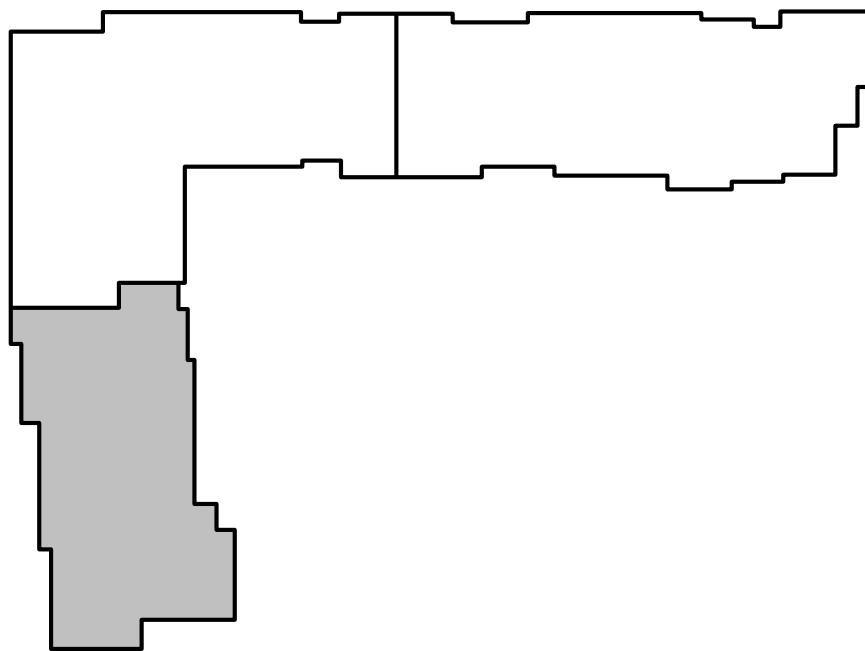
PLAN - HVAC



1 BLDG 2-A, PARTIAL ROOF PLAN
1/8" = 1'-0" HVAC

- NOTES:
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KEY PLAN
NO SCALE



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Telephone: (785) 233-3232
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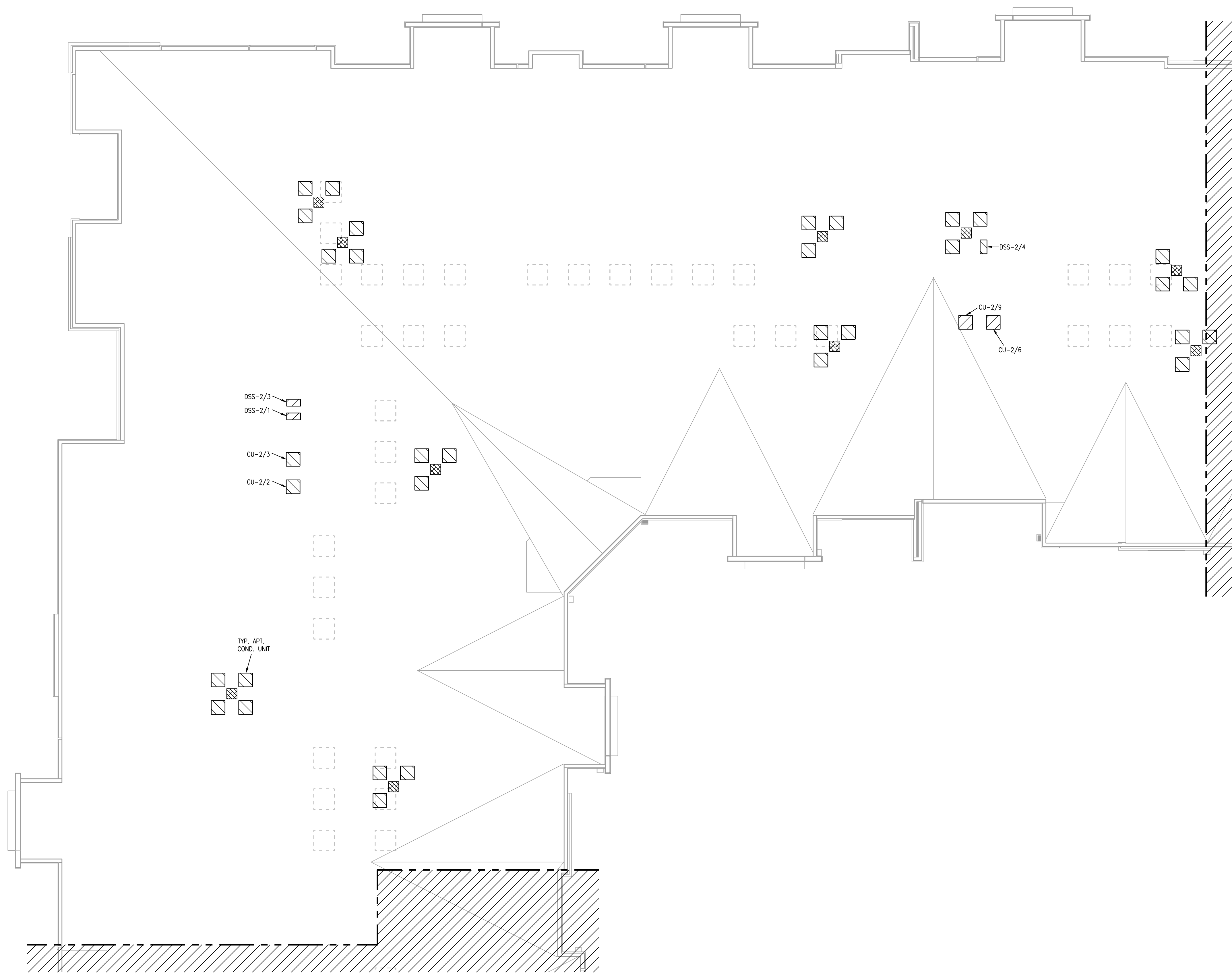
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SHEET NO.

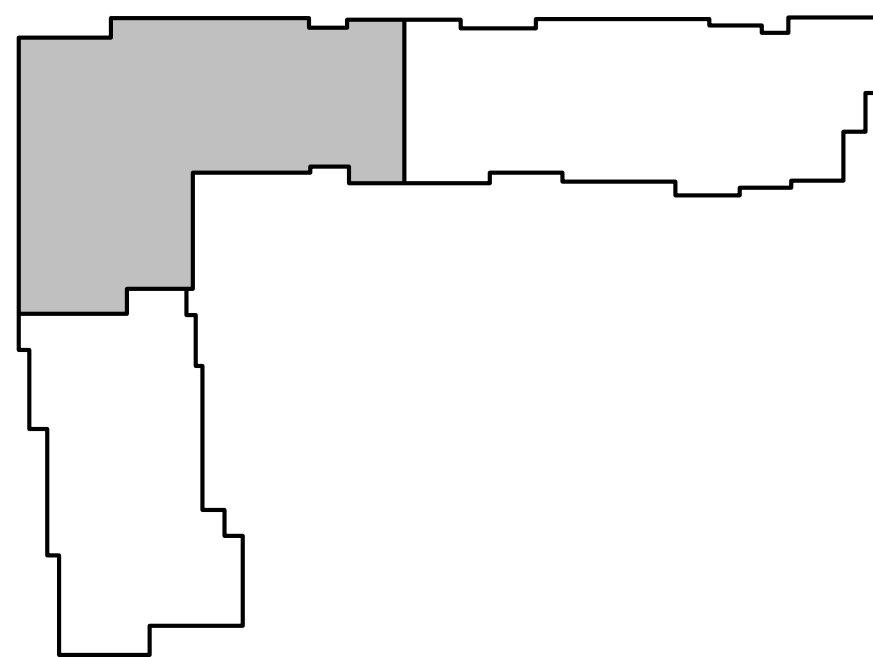
M122
BLDG 2-A, PARTIAL ROOF PLAN -
HVAC



1 BLDG 2-B, PARTIAL ROOF PLAN
1/8"=1'-0" HVAC NORTH

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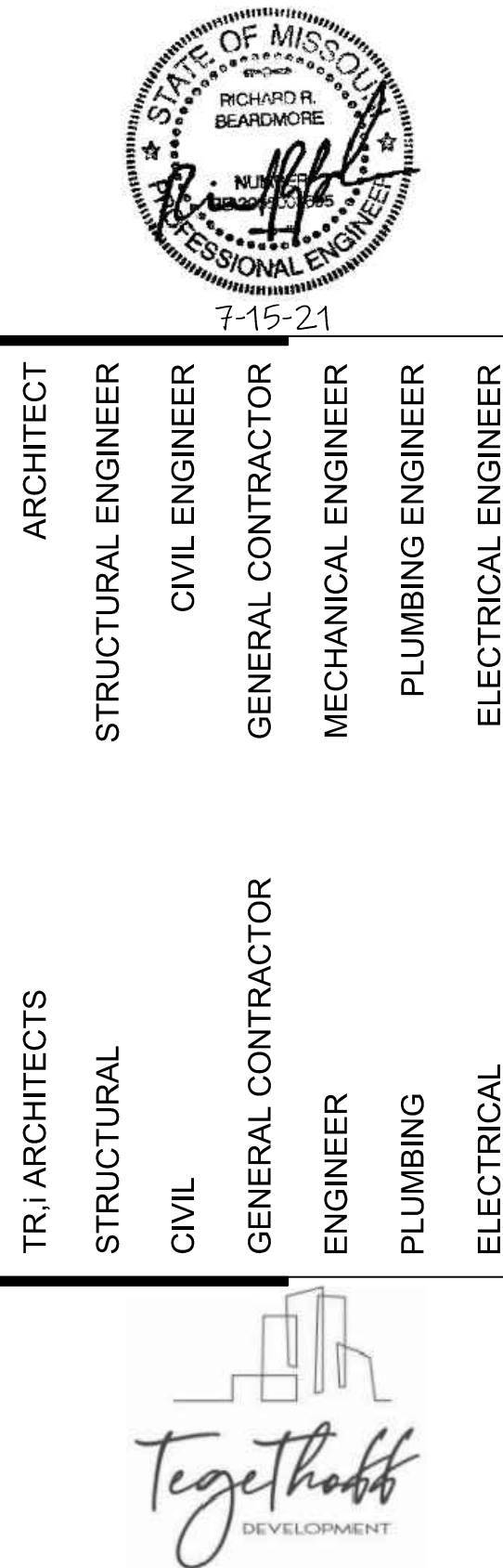
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KEY PLAN
NO SCALE



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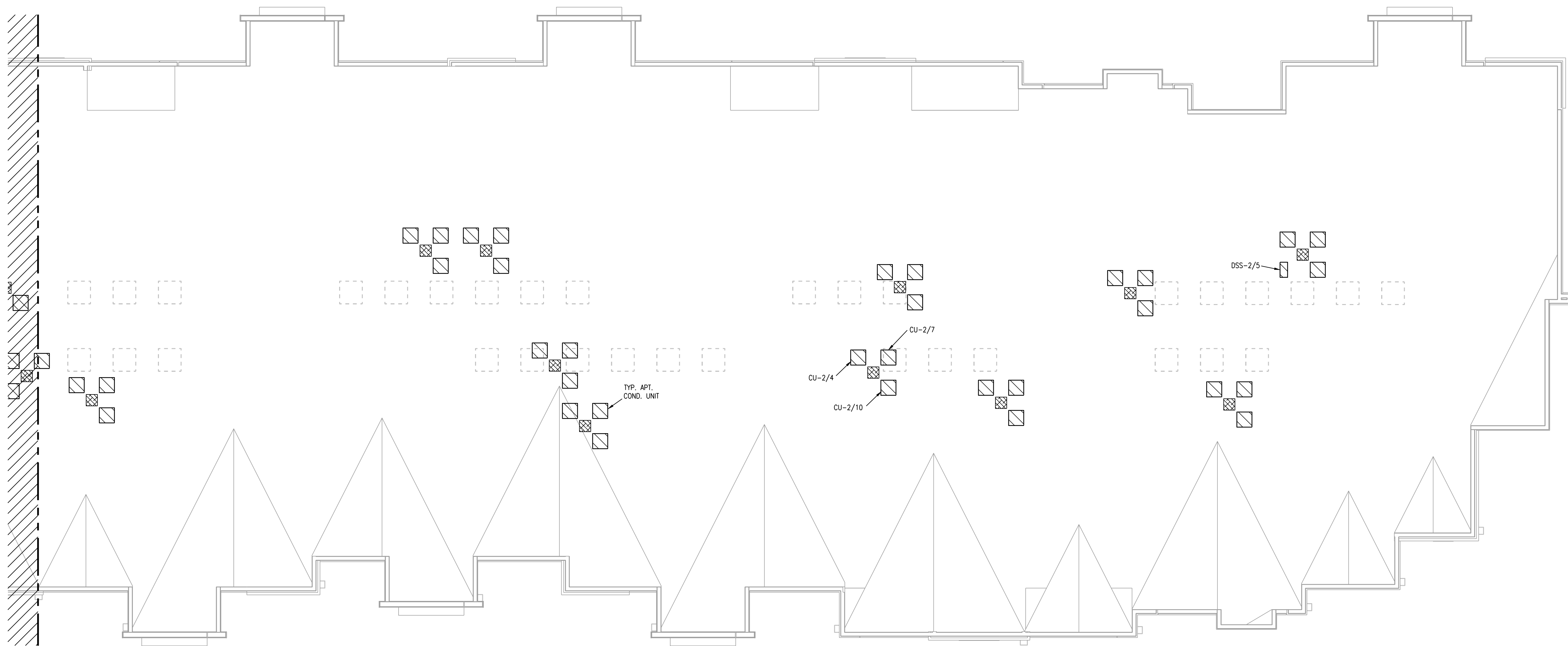
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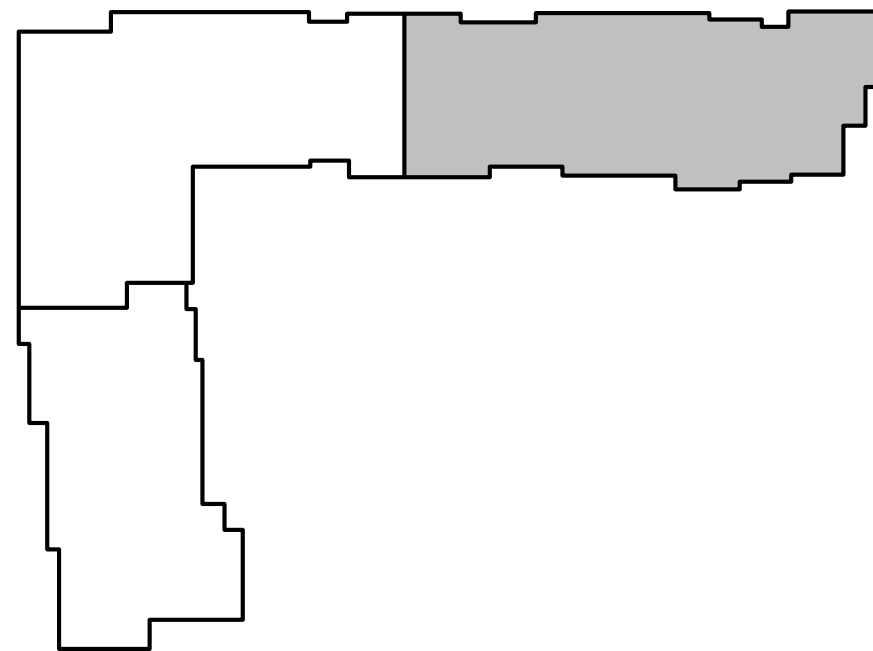
SHEET NO.

M123

BLDG 2-B, PARTIAL ROOF PLAN - HVAC



1 BLDG 2-C, PARTIAL ROOF PLAN
1/8"=1'-0" HVAC NORTH



KEY PLAN
NO SCALE NORTH

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Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@aol.com
LSA PROJECT NO. 2104008

- NOTES:
1. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 2. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 3. MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 4. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 5. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 8 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

- LEGEND:
- ① OUTSIDE AIR CONTROL AND BALANCING DAMPER.
 - ② DUCT WITH CRD AT RATED MEMBRANE.
 - ③ ROUTE COND. TO LAV TAILPIECE OR WASHER BOX.
 - ④ 16x8 TYPE "E" GRILLES, ONE HIGH, ONE LOW FOR RA PATH IN STUD SPACE. LINE SPACE WITH METAL.

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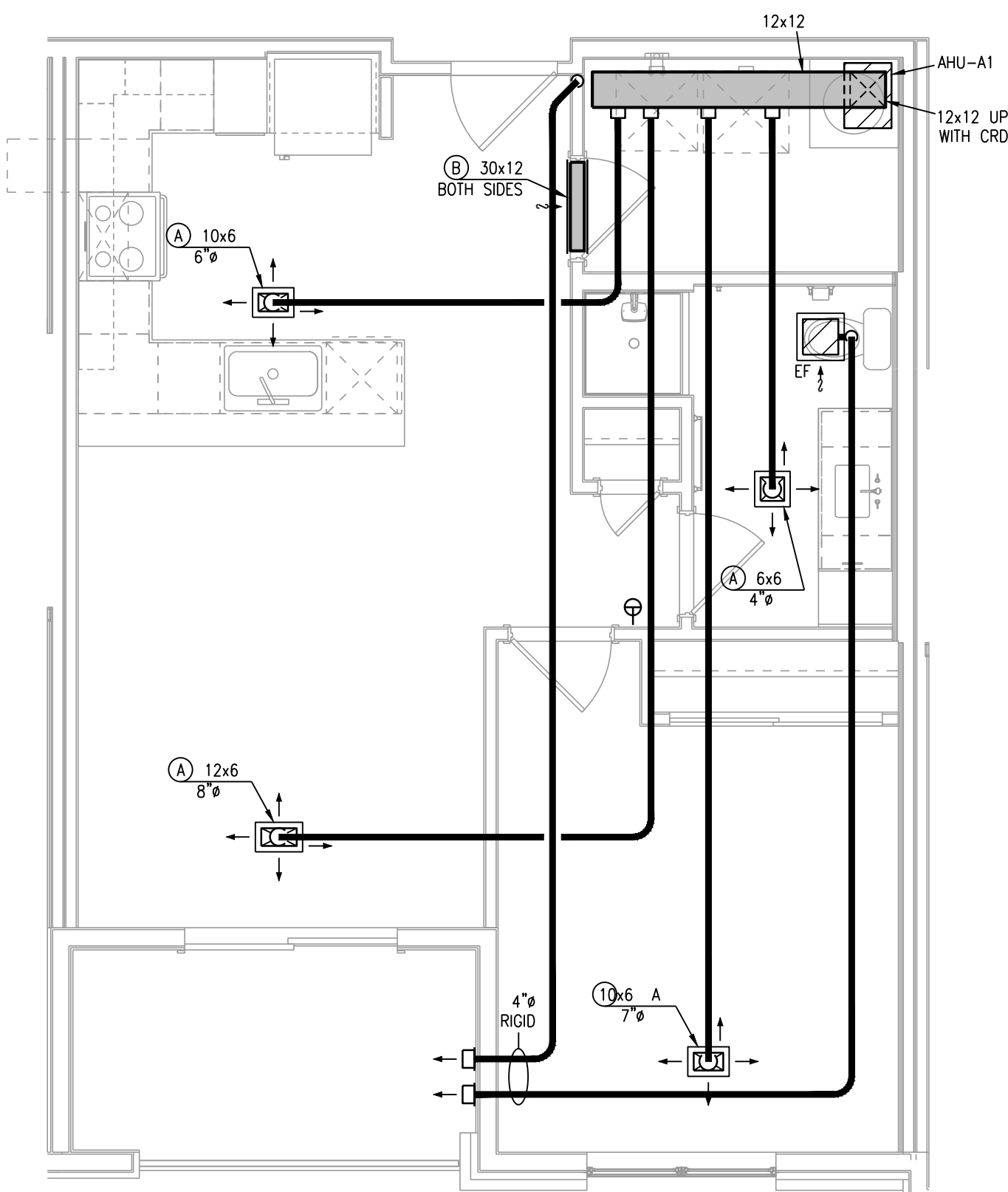
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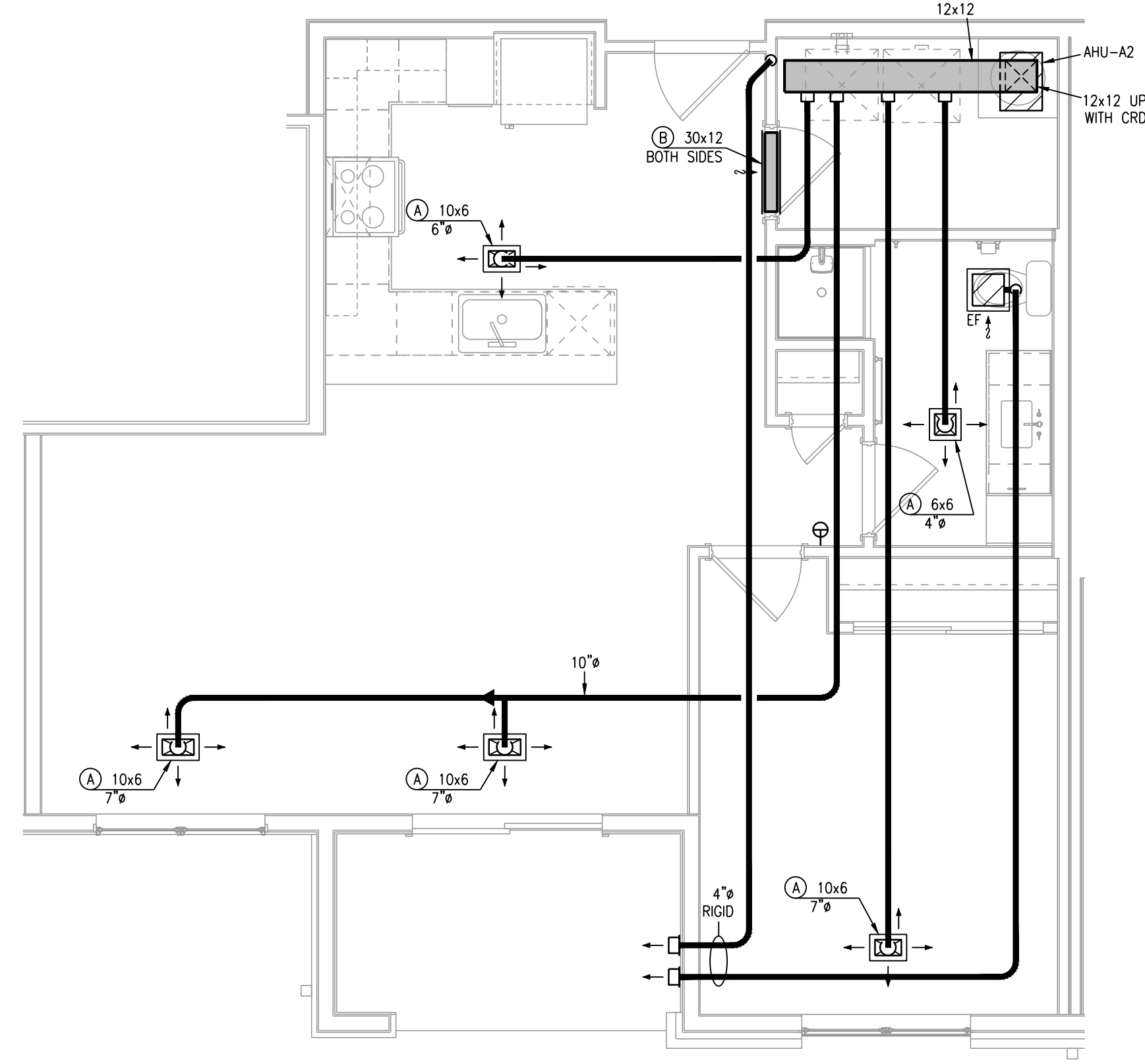
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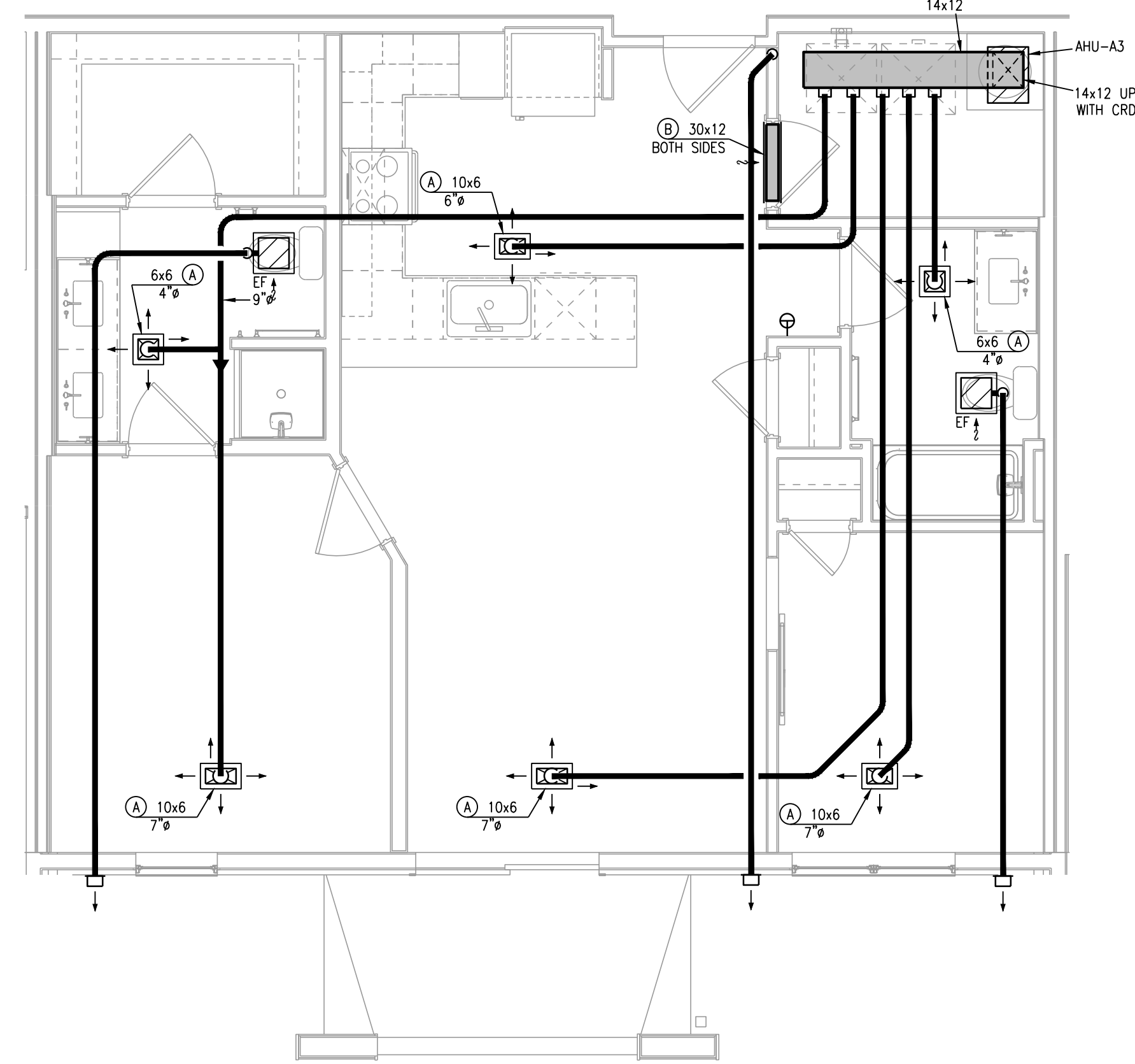
M124
BLDG 2-C, PARTIAL ROOF PLAN -
HVAC



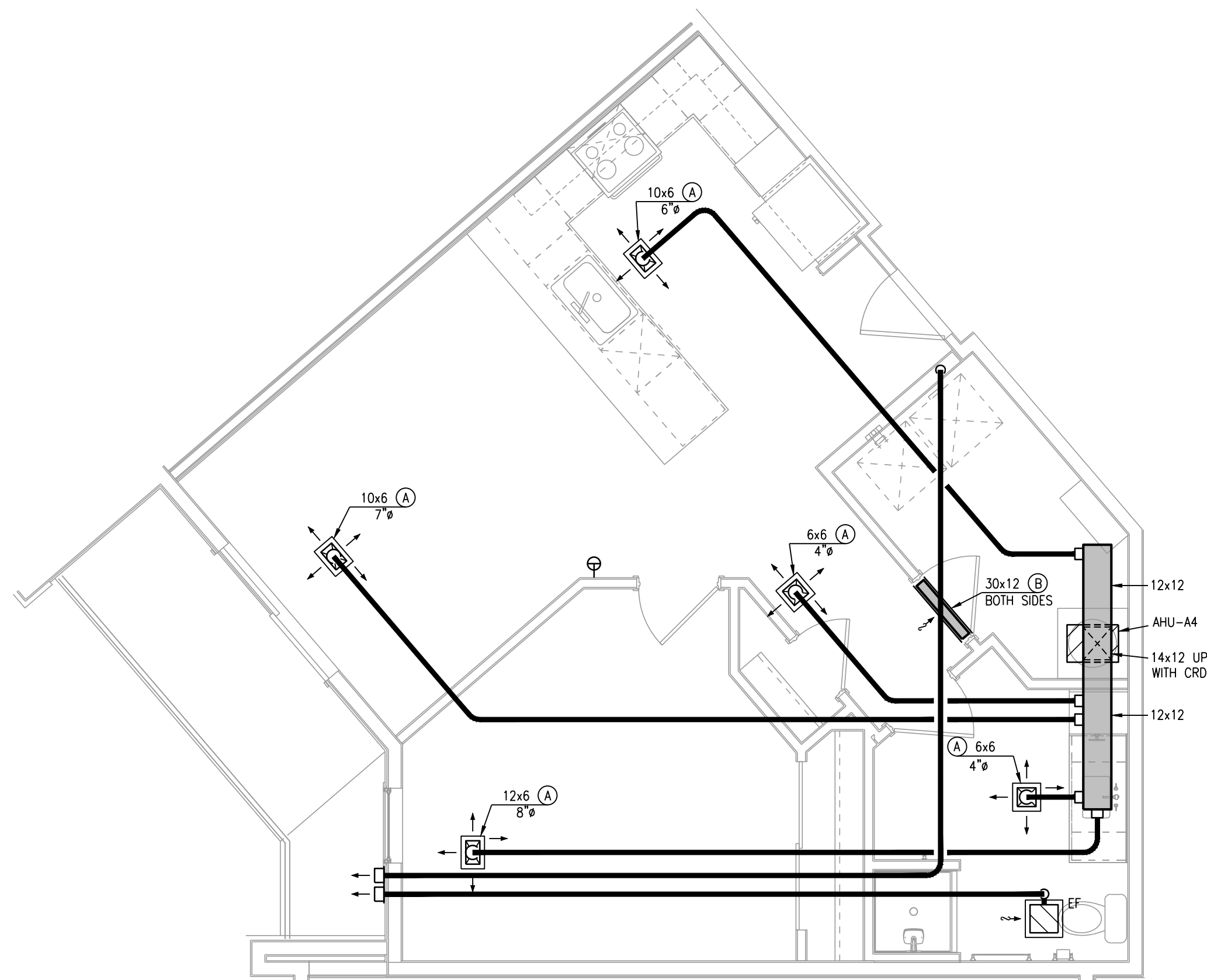
1 TYPICAL UNIT PLAN - A1
1/4"=1'-0" (UNITS A1-1, A1-2 SIMILAR) HVAC



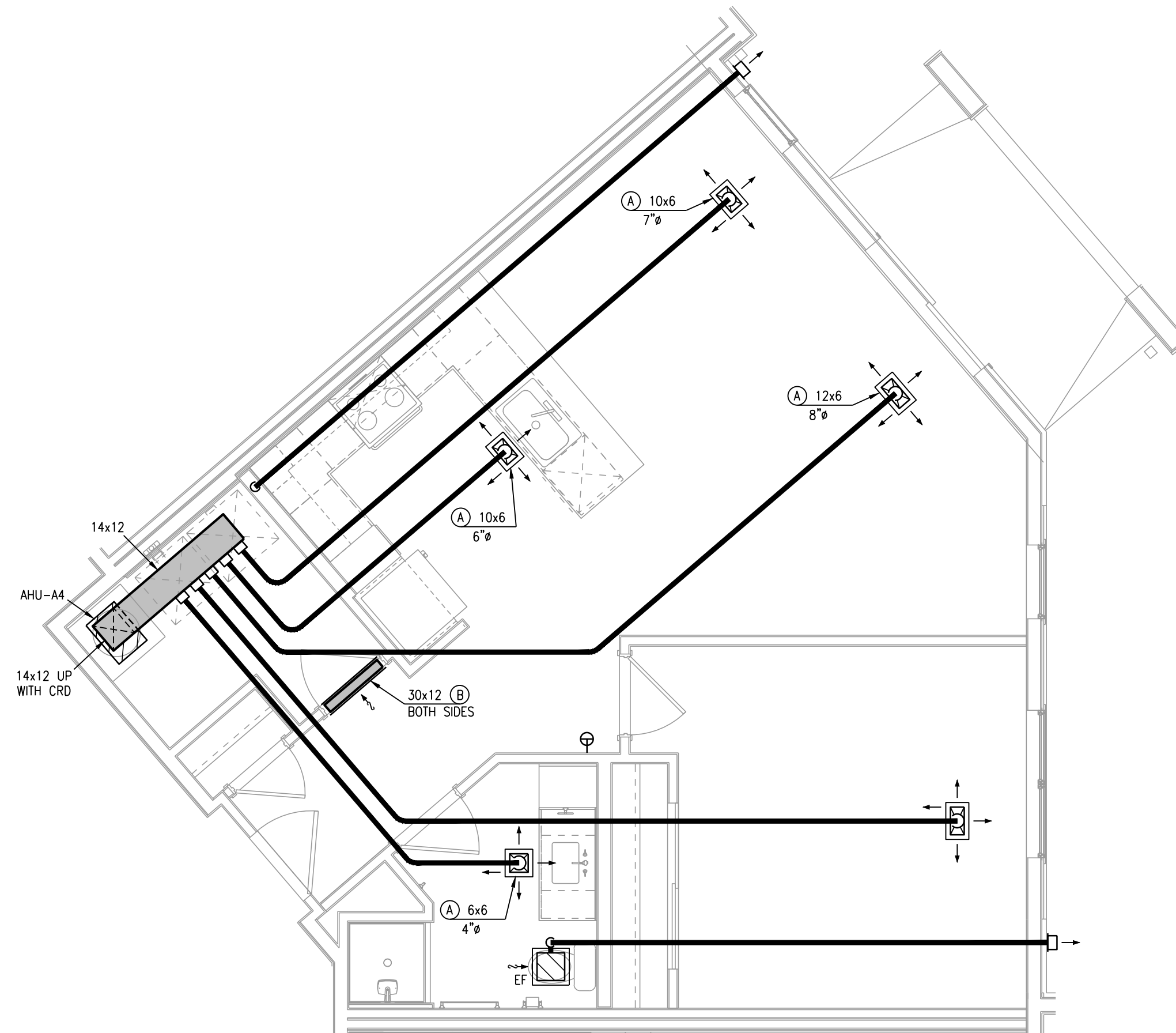
2 TYPICAL UNIT PLAN - A2
1/4"=1'-0" HVAC



3 TYPICAL UNIT PLAN - A3
1/4"=1'-0" HVAC



4 TYPICAL UNIT PLAN - A4
1/4"=1'-0" (TYPE A SIMILAR) HVAC



5 TYPICAL UNIT PLAN - A5
1/4"=1'-0" HVAC

- NOTES:
1. 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.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION.
 4. PROVIDE GUY GRAY MODEL DB350/DB30 DRYER VENT BOY AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 5. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 6. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
 7. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 8. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 9. EXHAUST FANS TO BE FIRE-RATED, HUMIDITY-SENSING TYPE, 80 CFM AT 0.1 ESP.
 10. USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC. INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.



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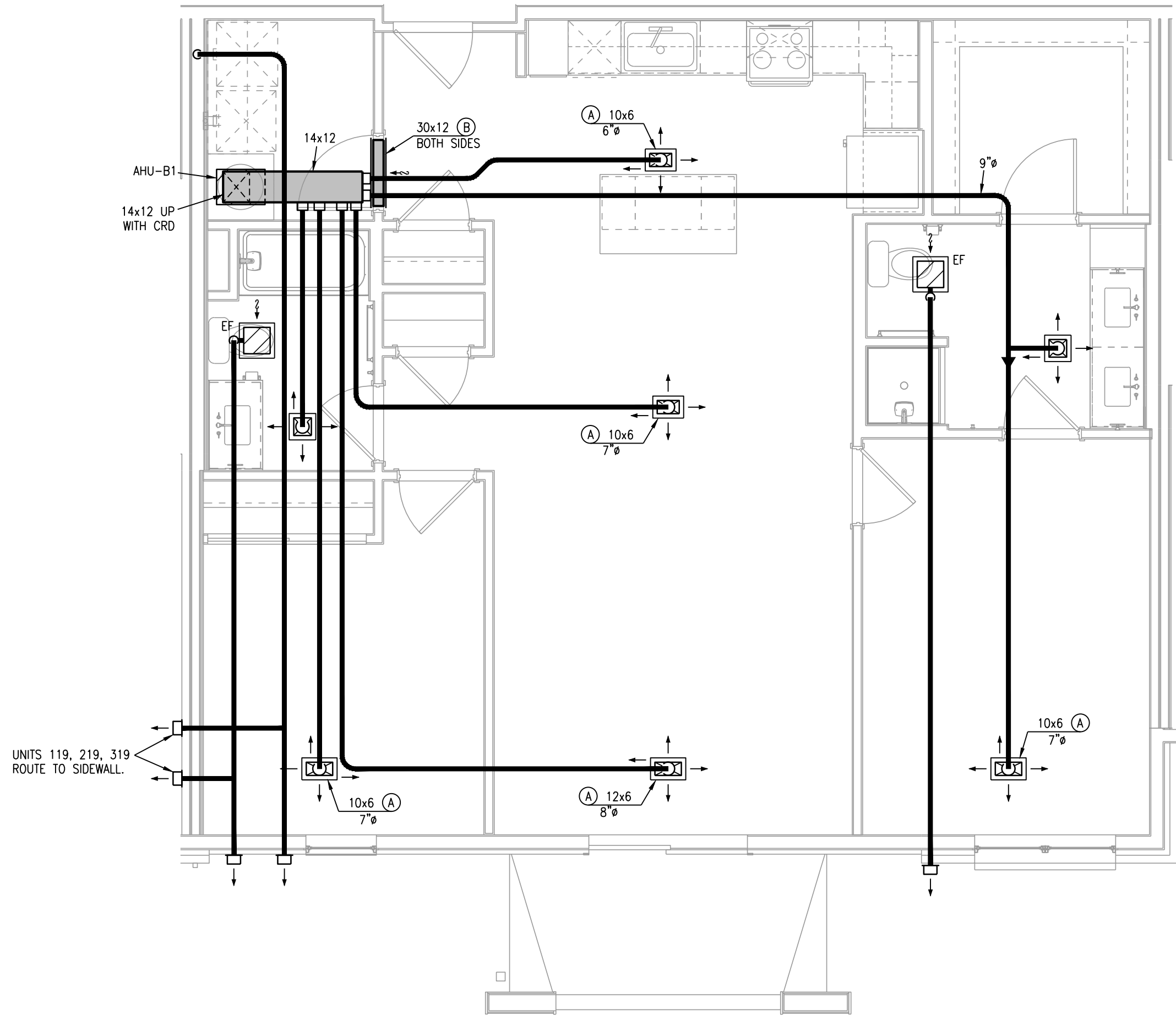
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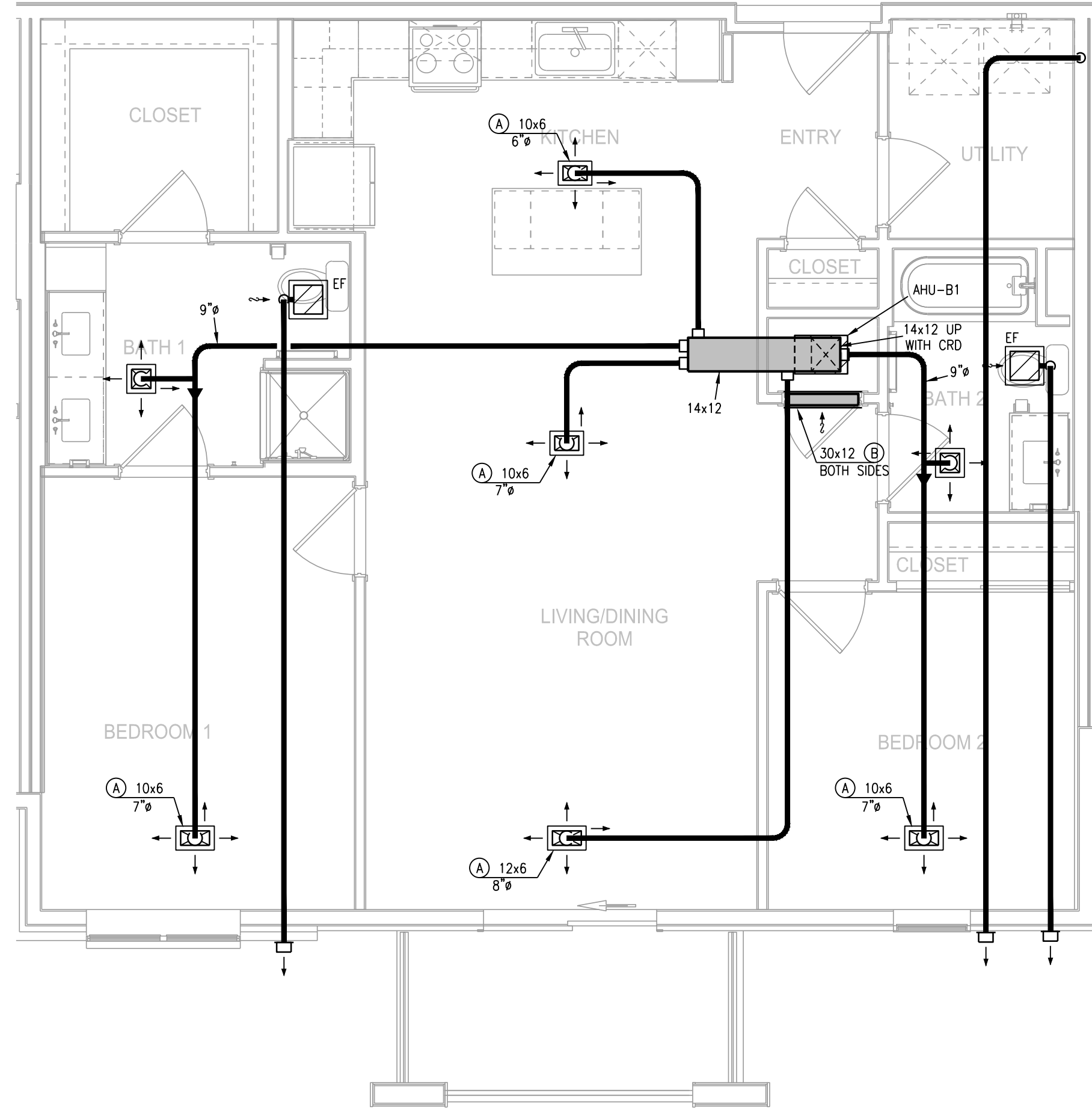
M201

TYPICAL UNIT PLANS - HVAC

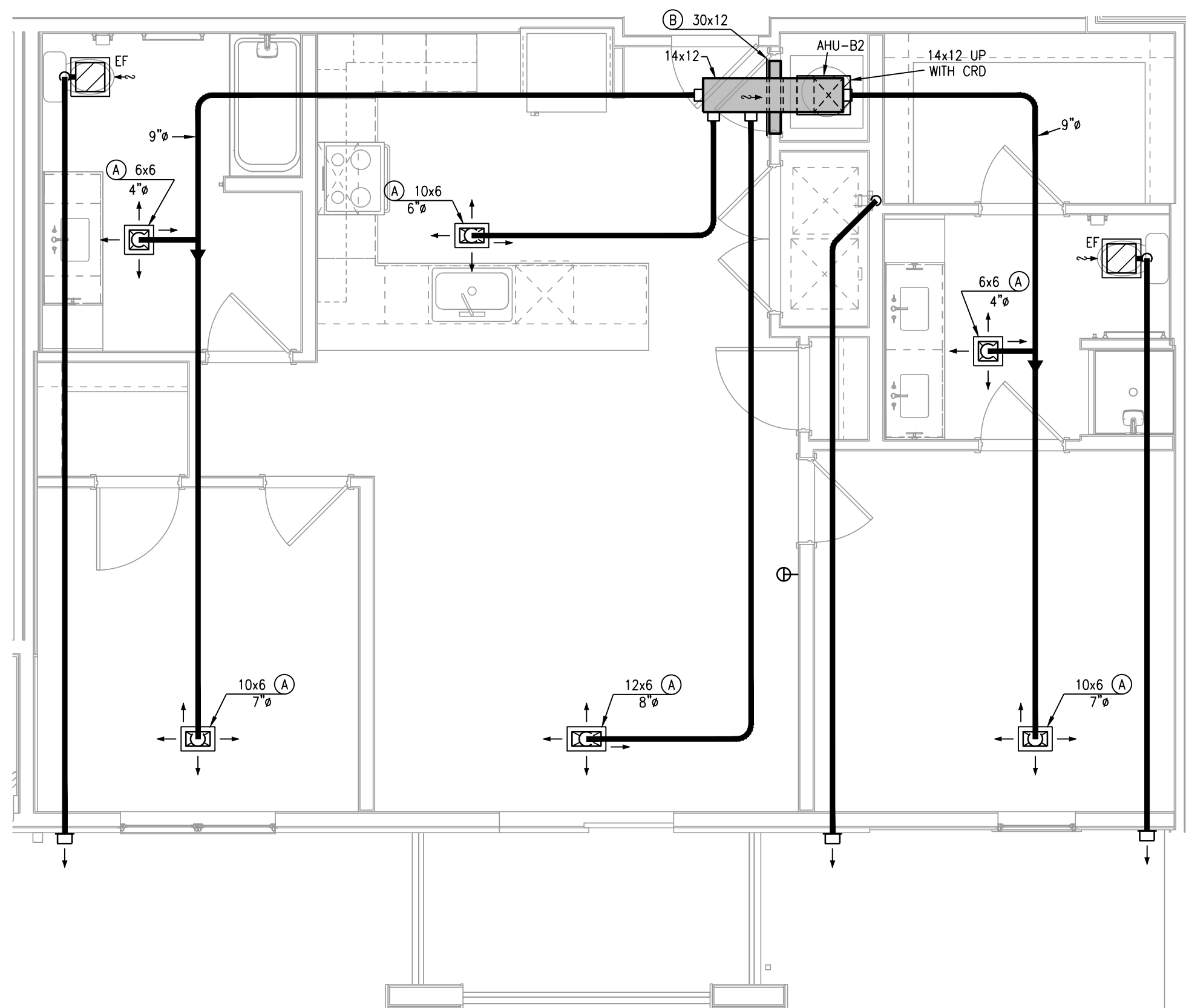




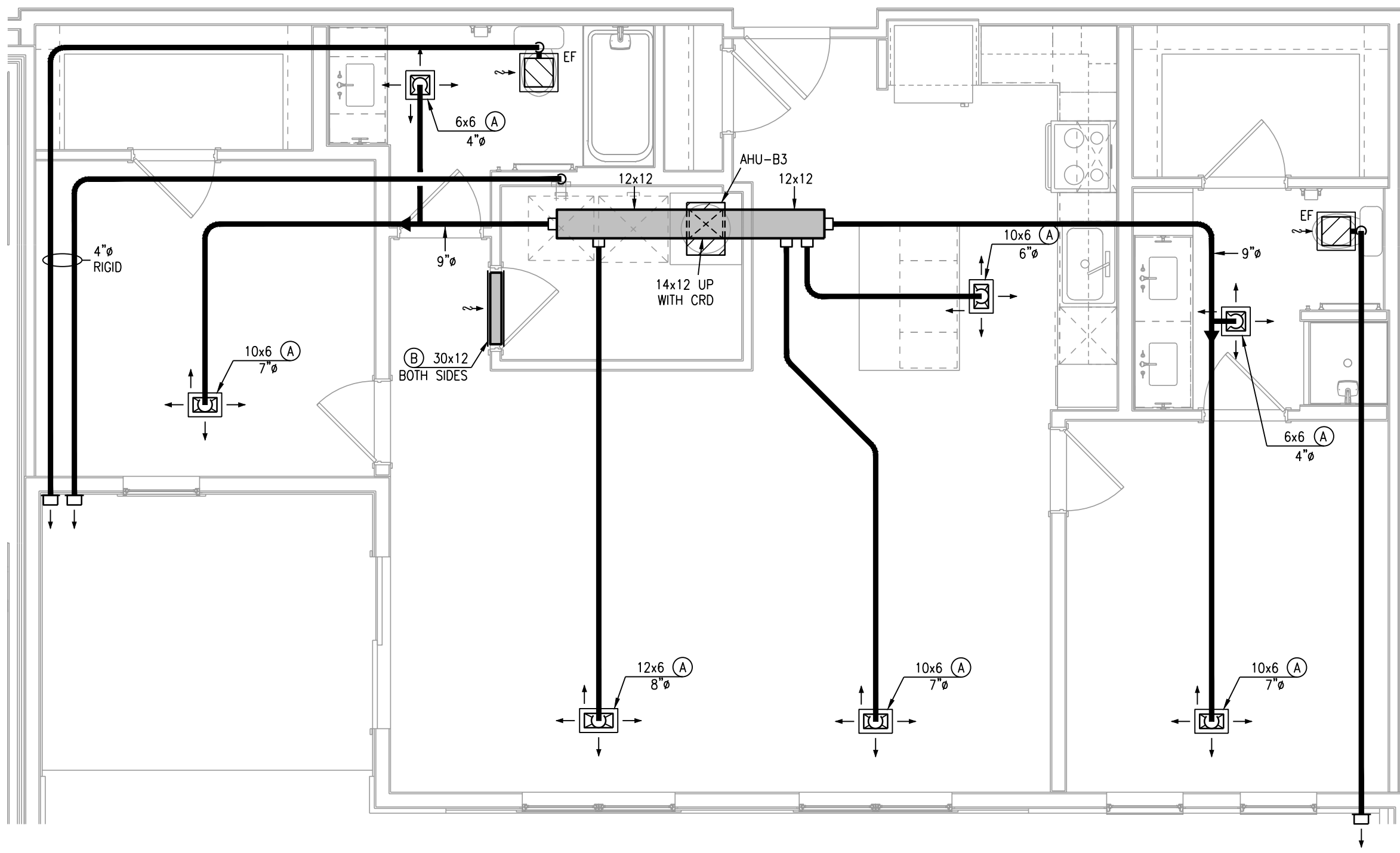
1 TYPICAL UNIT PLAN - B1
1/4"=1'-0" (UNITS B1-1, B1-2, B1-3 SIMILAR) HVAC



2 TYPICAL UNIT PLAN - B1 TYPE A
1/4"=1'-0" HVAC



3 TYPICAL UNIT PLAN - B2
1/4"=1'-0" (UNIT B2-TYPE A SIMILAR) HVAC



4 TYPICAL UNIT PLAN - B3
1/4"=1'-0" (UNIT B3-1 SIMILAR) HVAC

- NOTES:
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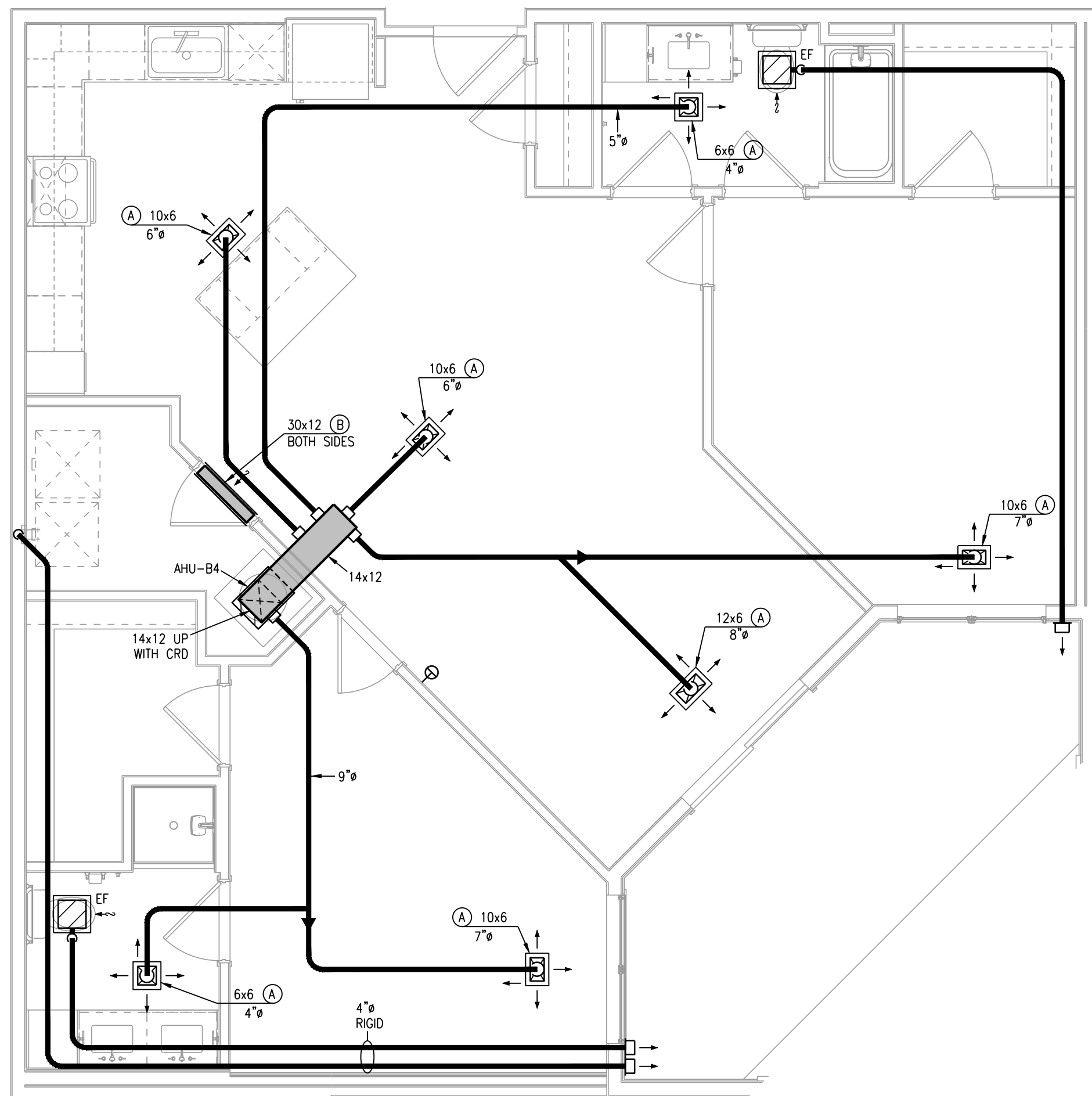
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M202

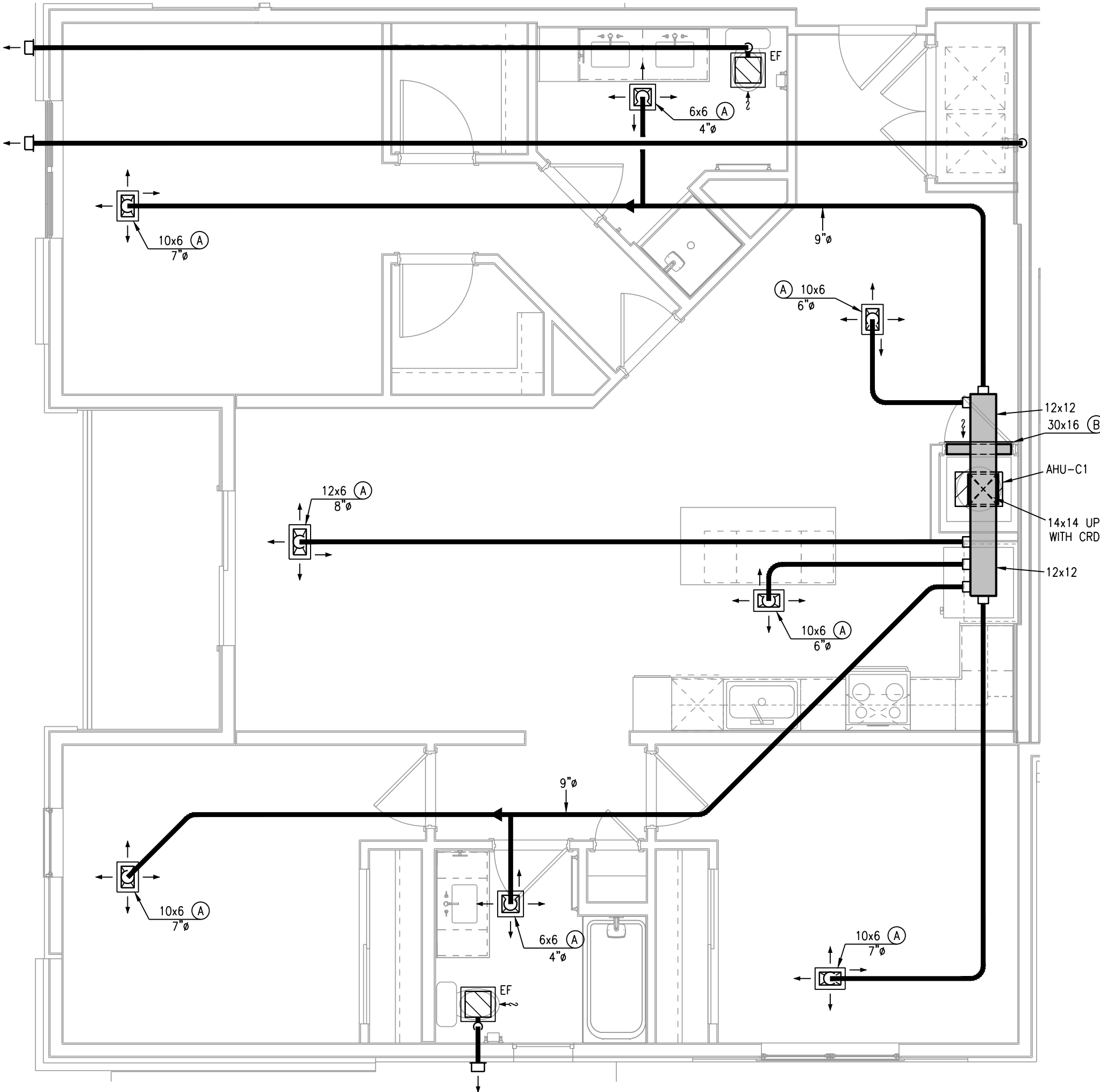
TYPICAL UNIT PLANS - HVAC



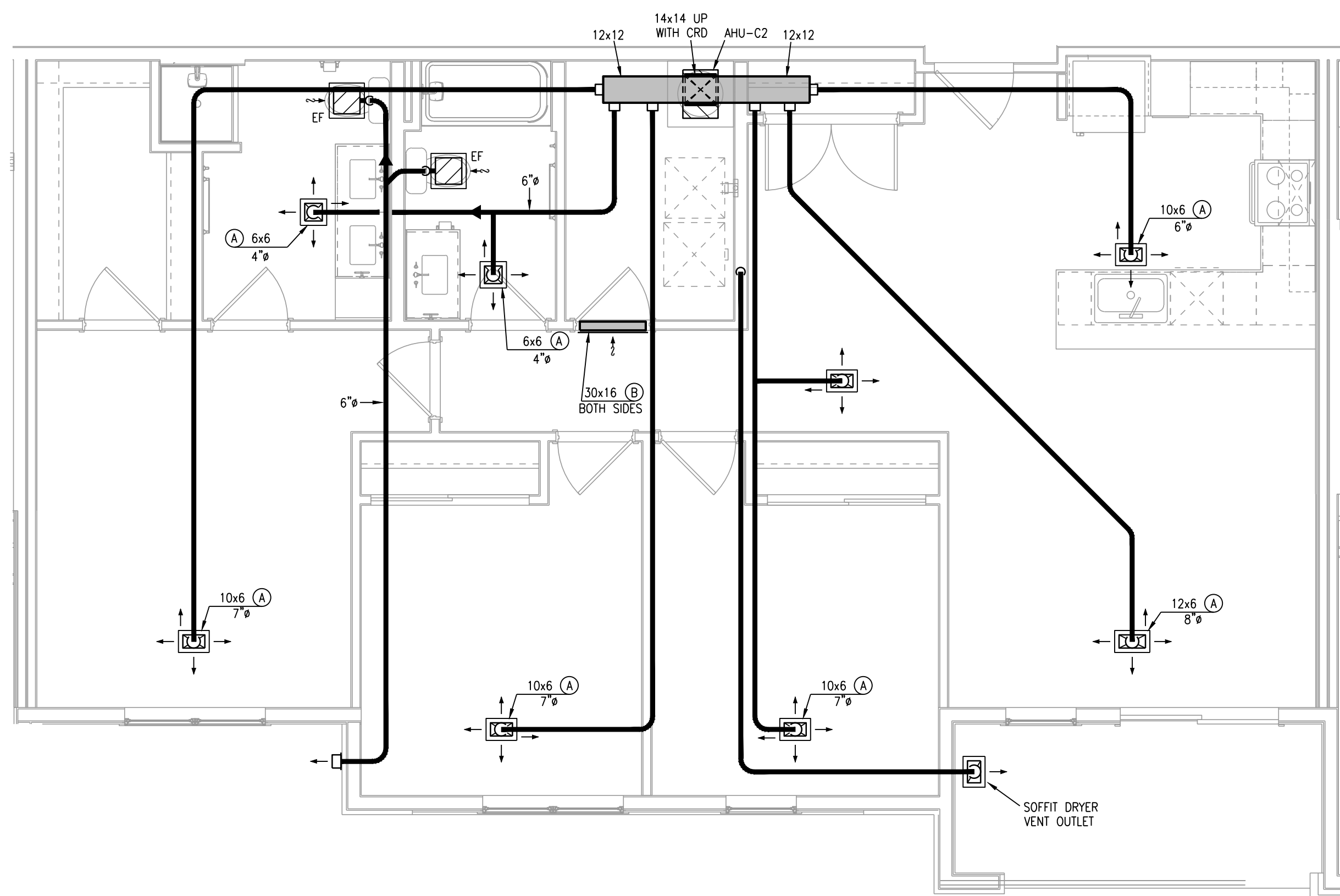
LSA PROJECT NO. 2104008



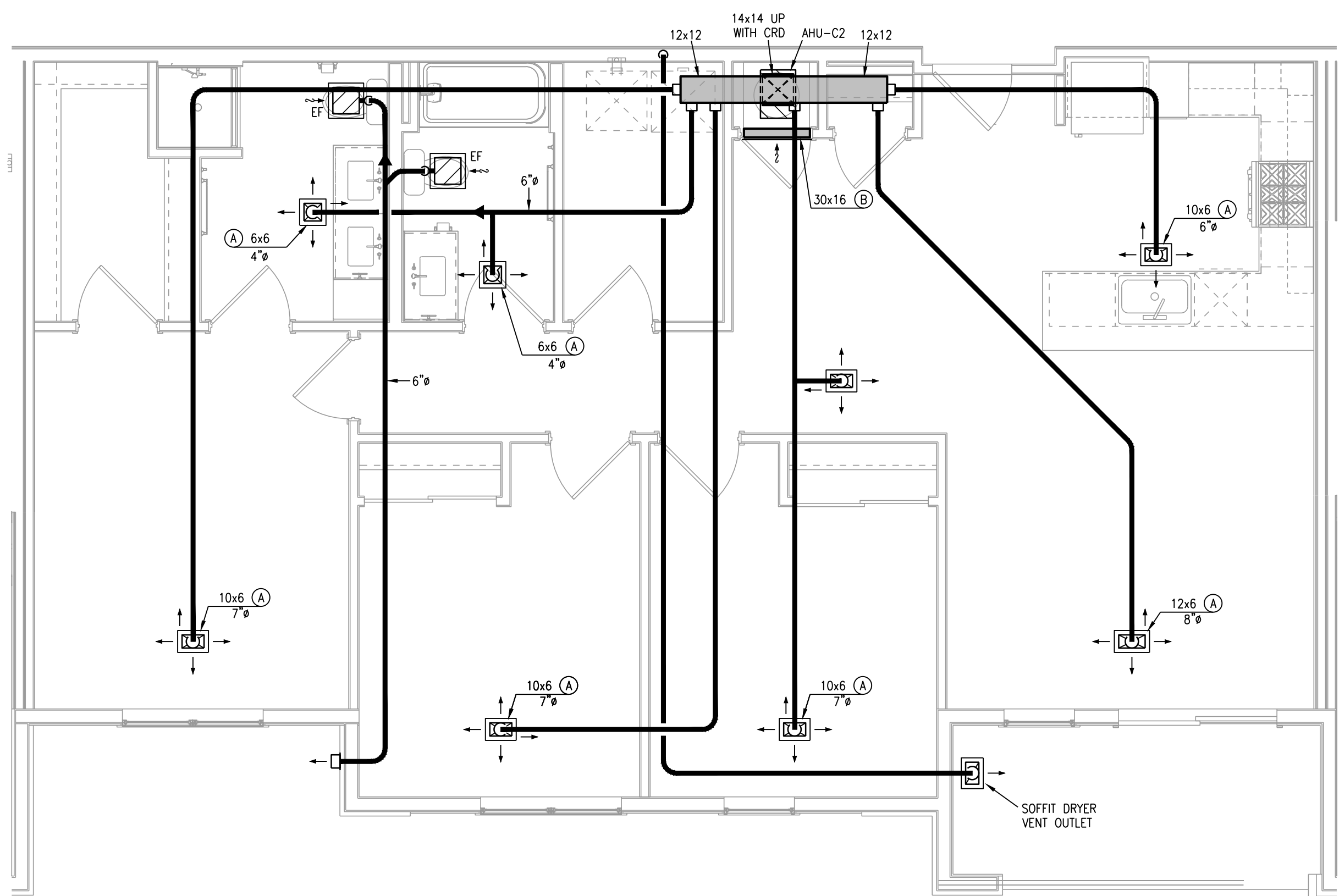
1 TYPICAL UNIT PLAN - B4
1/4" = 1'-0" HVAC



2 TYPICAL UNIT PLAN - C1
1/4" = 1'-0" (UNIT C1-1 SIMILAR) HVAC



3 TYPICAL UNIT PLAN - C2
1/4" = 1'-0" (UNIT C2-1 SIMILAR) HVAC



4 TYPICAL UNIT PLAN - C2 TYPE A
1/4" = 1'-0" HVAC

- NOTES:
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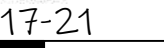
SHEET NO.

M203

TYPICAL UNIT PLANS - HVAC



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PROJECT NO. 00-004

RESULTS

ME000

MF202

MAINTENANCE BLDG - HVAC



W/G BY CAD/RRB

i PROJECT NO. 20-001

FEET NO

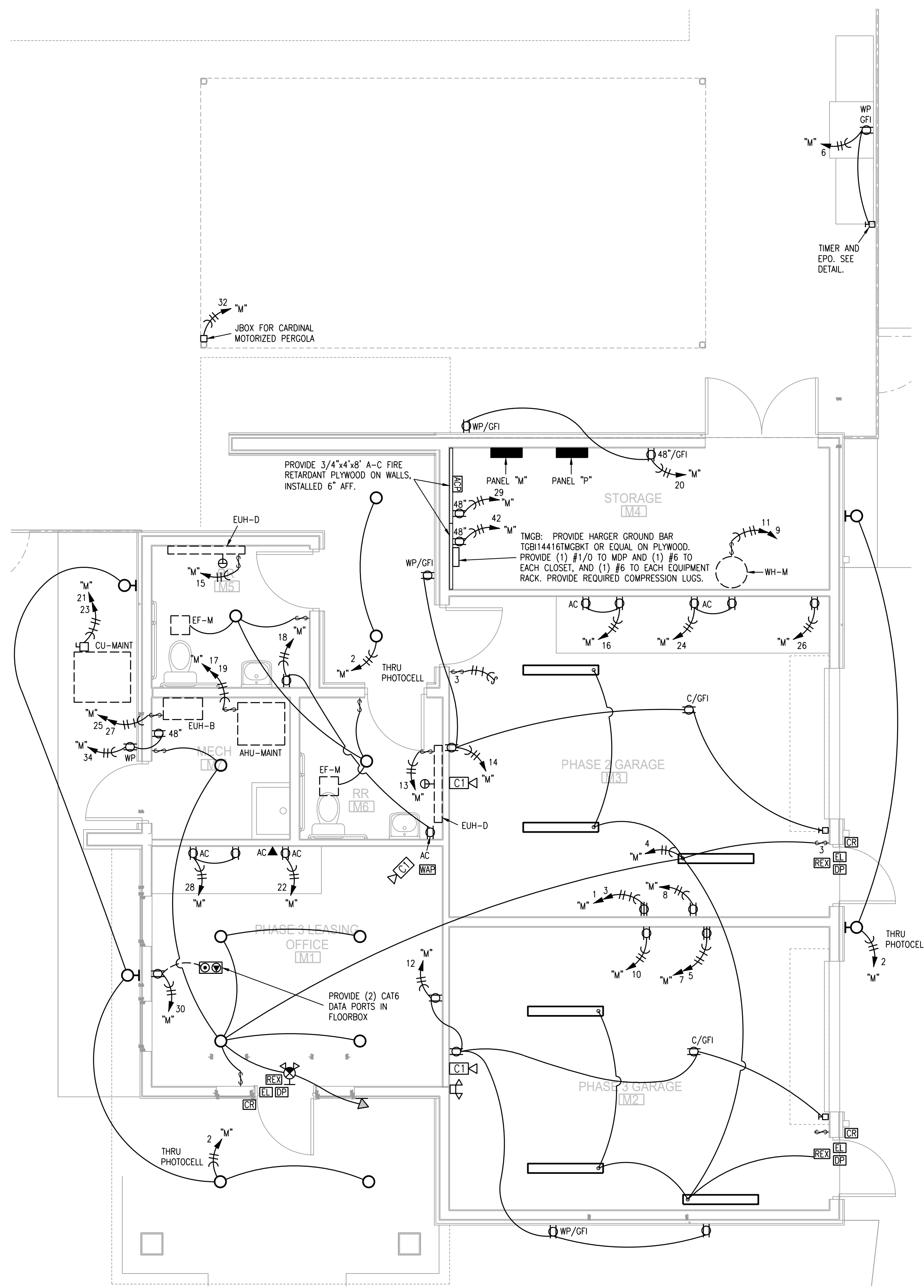
MG 202

MEZUZ

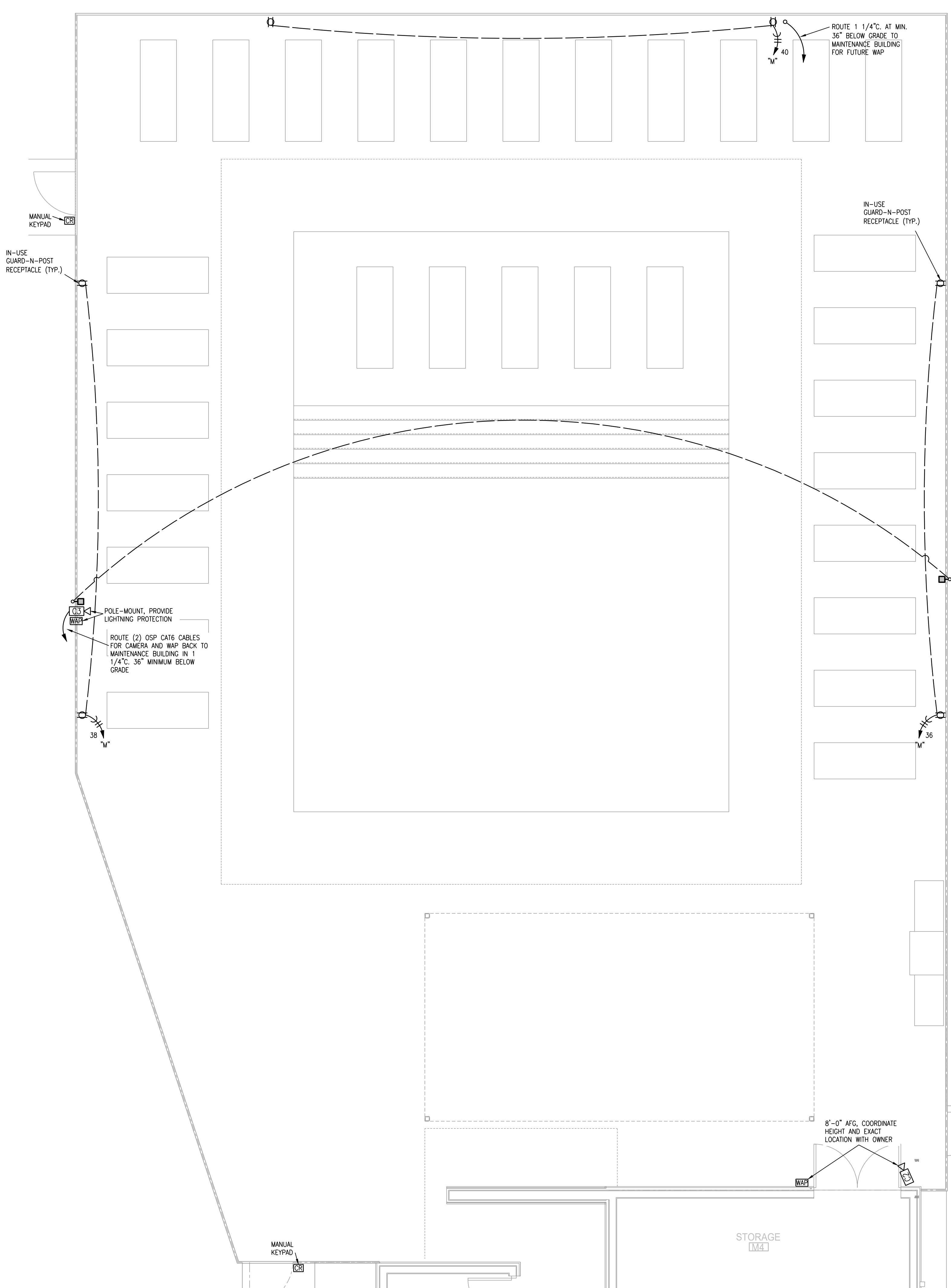
MAINTENANCE BLDG - HVAC

ALL CIRCUITING SHALL BE
(2) #12 & (1) #12 GRD.
UNLESS NOTED UNLESS.

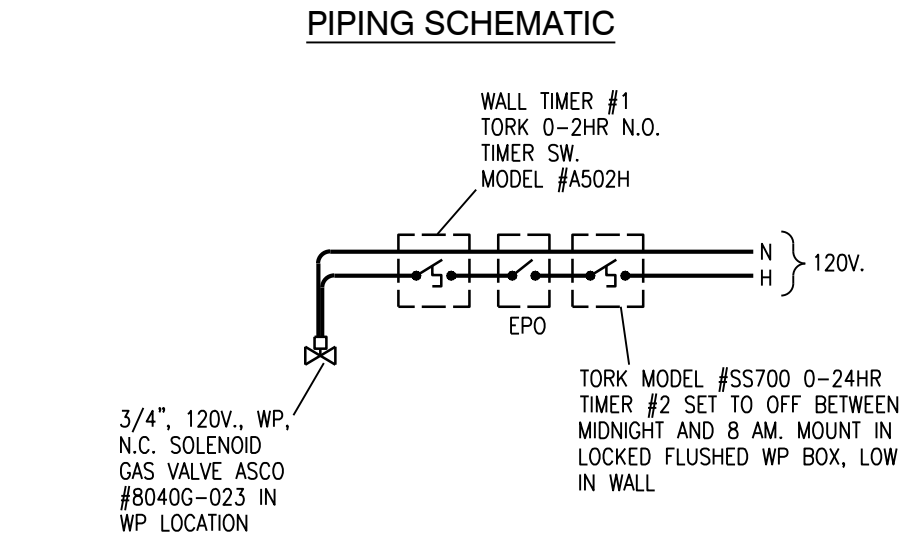
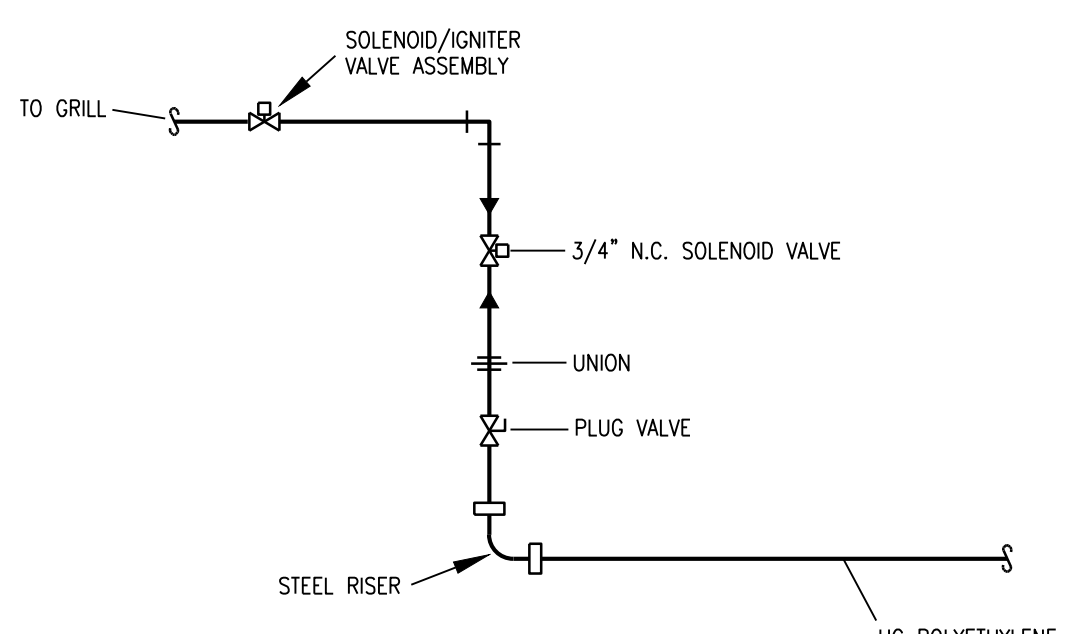
\$2500 ALLOWANCE FOR
LIGHTING AND FANS IN
COVERED SEATING



1 MAINTENANCE BLDG FLOOR PLAN
1/4"=1'-0" ELECTRICAL NORTH



2 MAINTENANCE BLDG FLOOR PLAN
1/4"=1'-0" ELECTRICAL NORTH



3 GAS CONTROL DETAIL
NO SCALE (GRILL)

LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lepa@lsand.com
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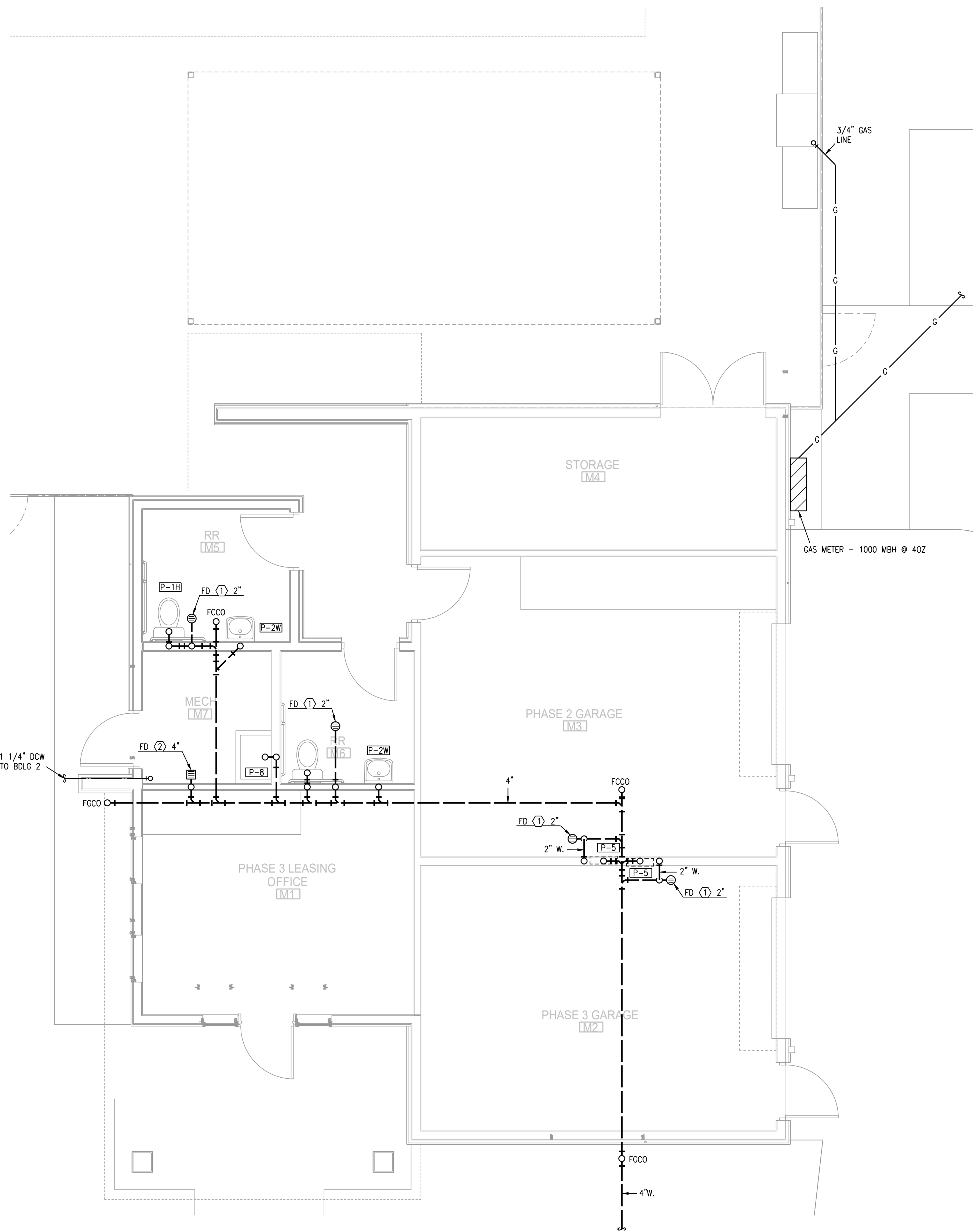
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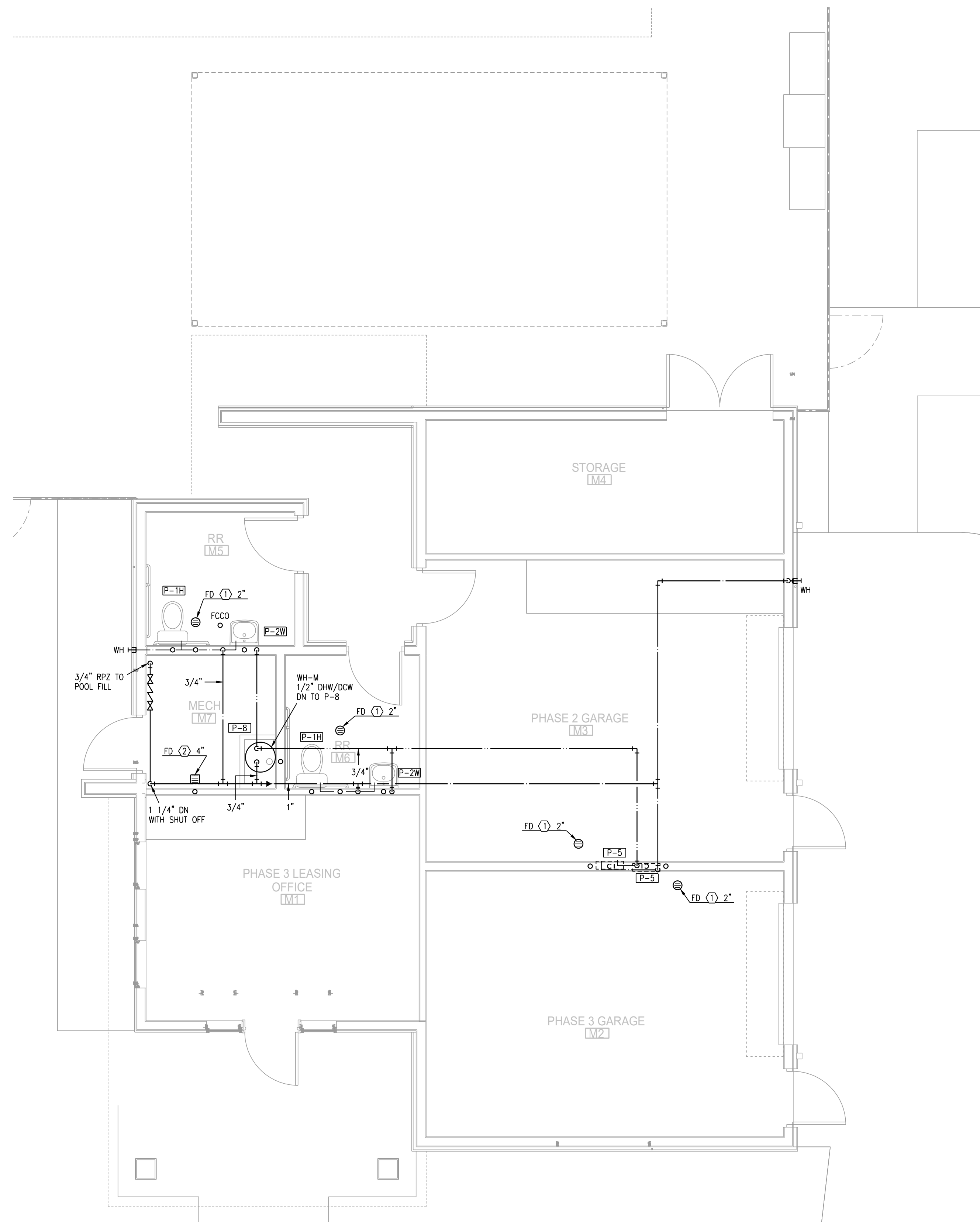
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SHEET NO.
ME203
MAINTENANCE BLDG -
ELECTRICAL



1 MAINTENANCE BLDG FLOOR PLAN
1/4"=1'-0" BELOW-GRADE PLUMBING



2 MAINTENANCE BLDG FLOOR PLAN
1/4"=1'-0" PLUMBING

LS&A
Latter Sommer
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lepa@lsa.com
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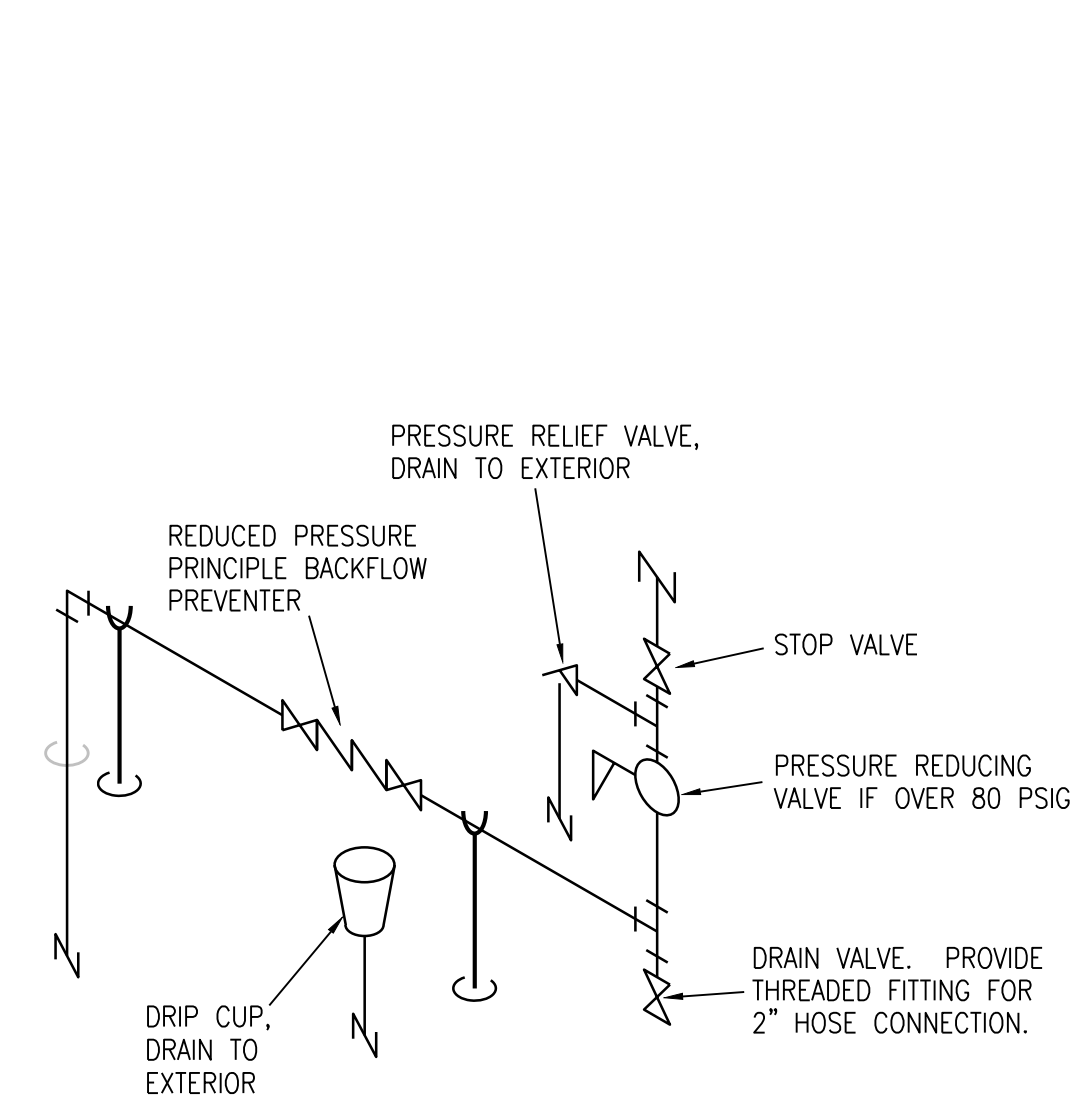
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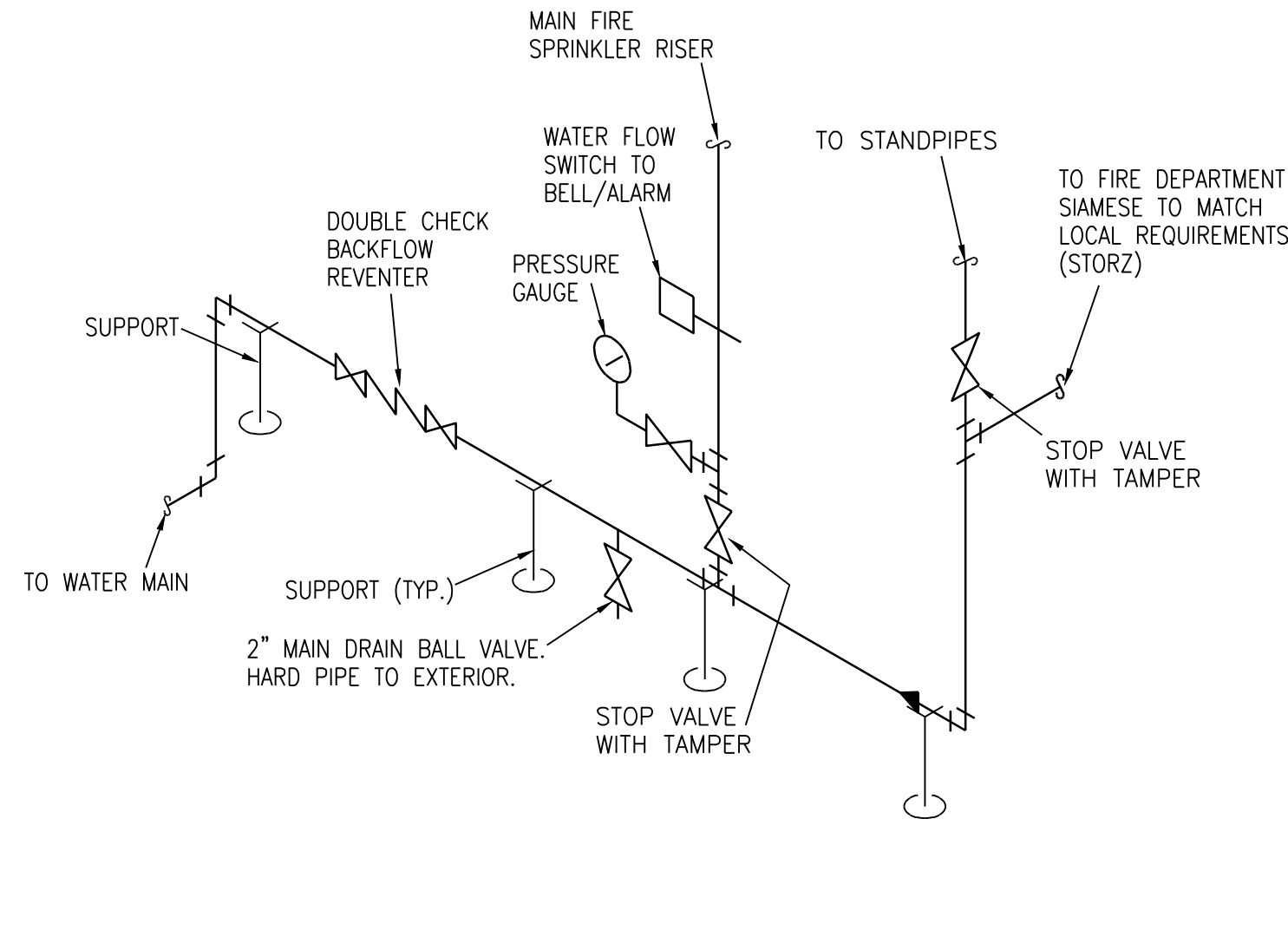
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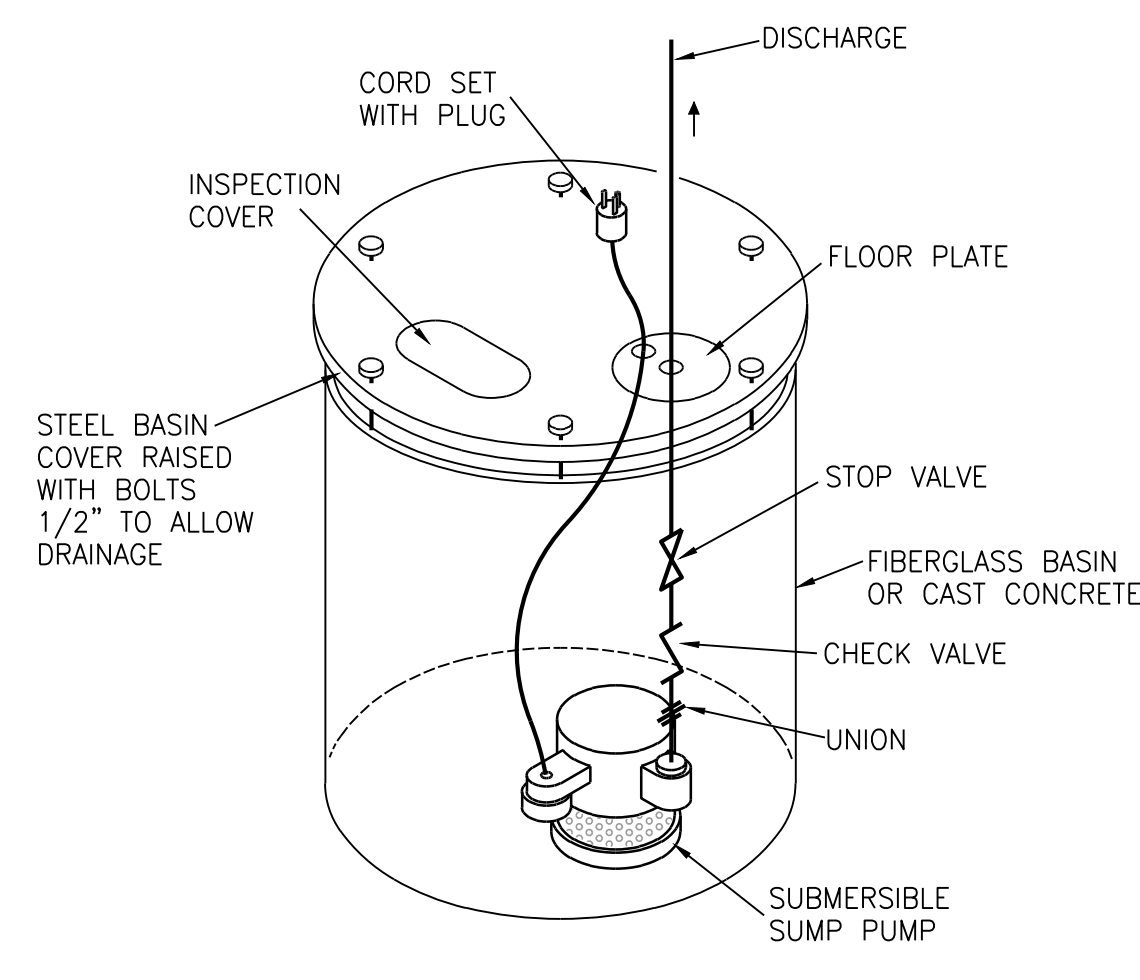
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ME201
MAINTENANCE BLDG - PLUMBING



1 DOMESTIC WATER RISER
NO SCALE



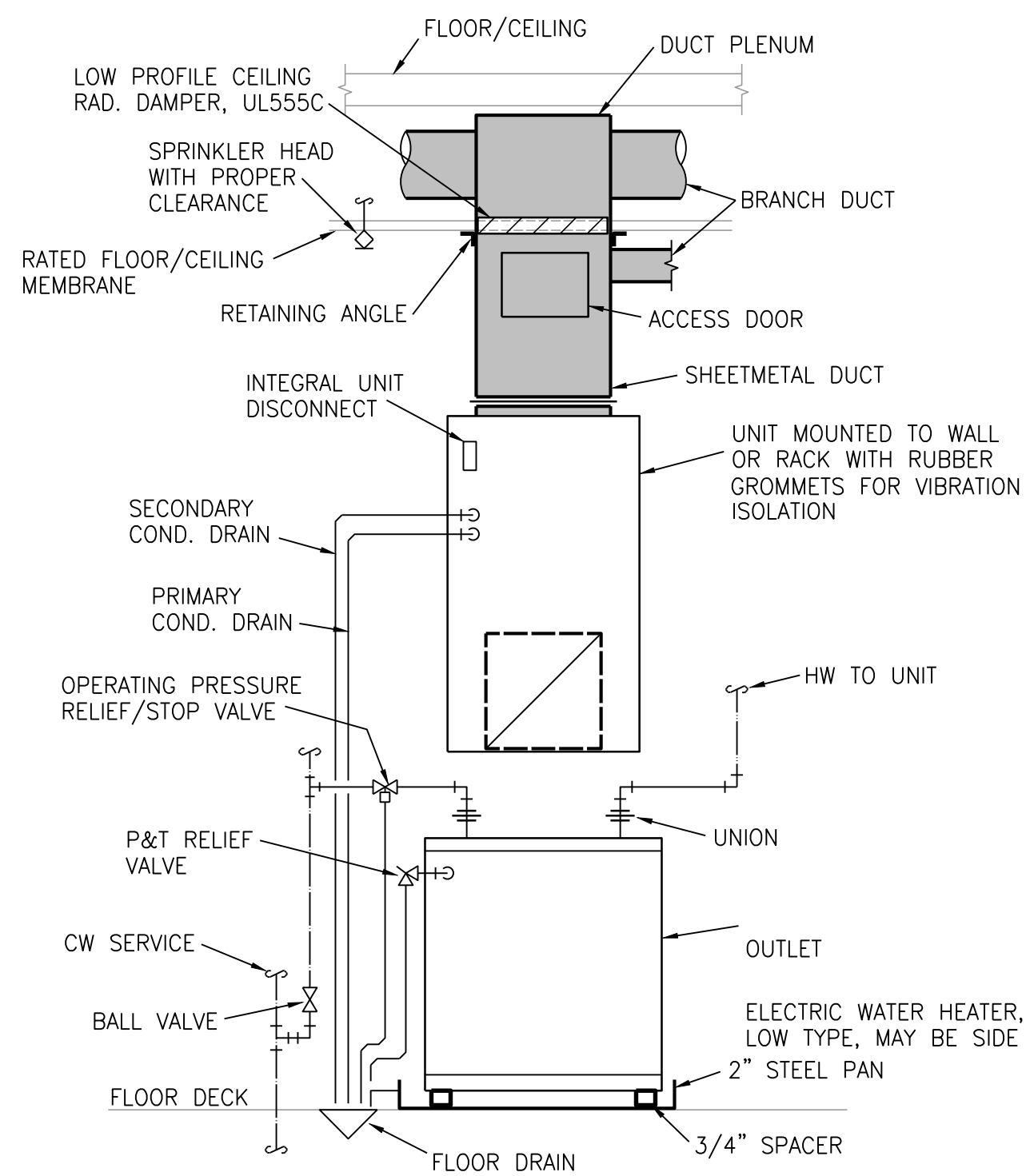
2 FIRE SUPPRESSION ENTRANCE RISER
NO SCALE



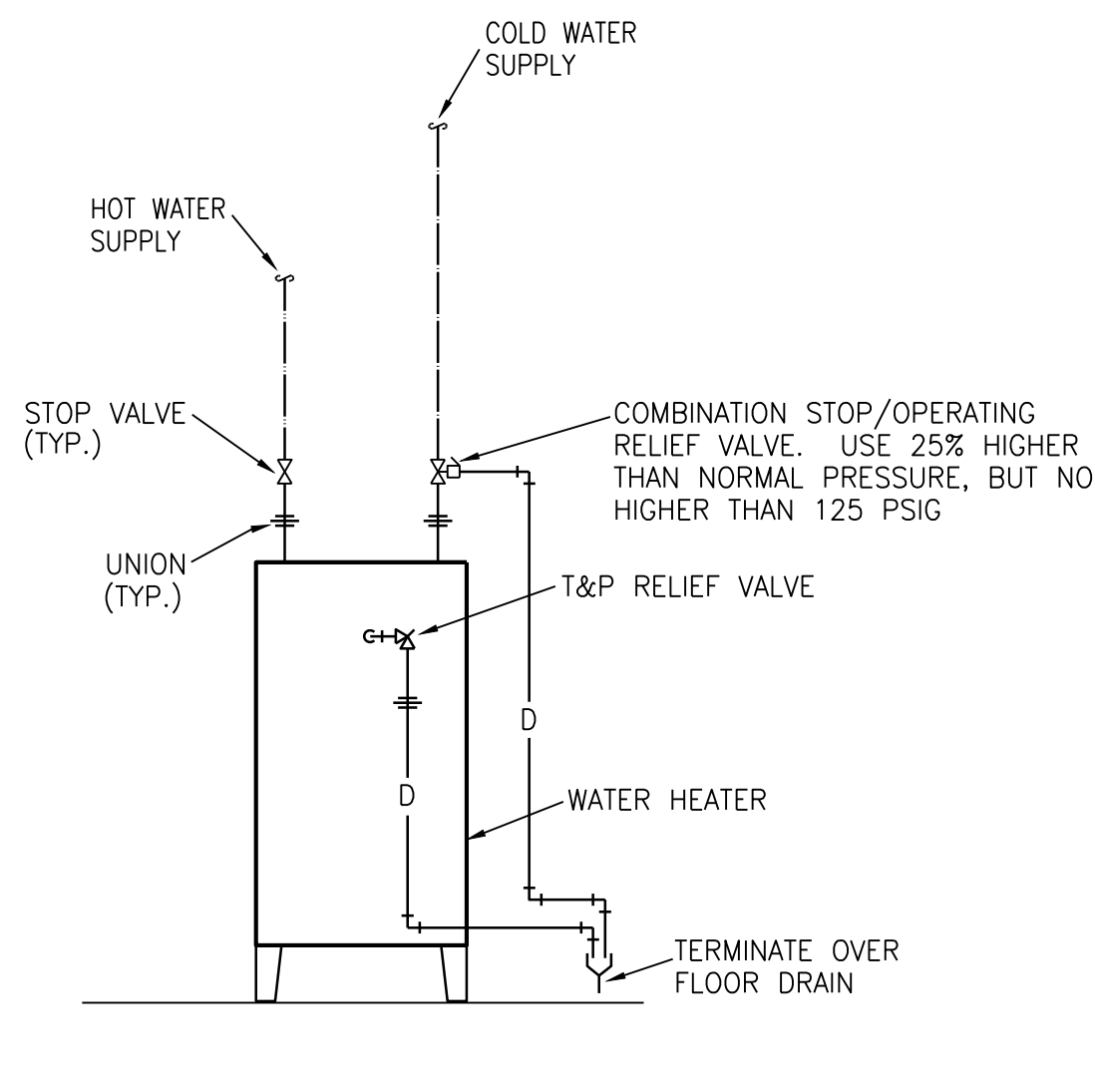
3 ELEVATOR SUMP PUMP DETAIL
NO SCALE

PLUMBING/MECHANICAL SYMBOLS LEGEND			
(P-1)	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)		MANUAL DAMPER
W	WASTE LINE ABOVE EARTH (W.)		BACKDRAFT DAMPER
W	WASTE LINE IN EARTH (W.)		AUTOMATIC DAMPER
CO	CLEAN OUT		FIRE DAMPER
FFCO	FLUSH FLOOR CLEAN OUT		FIRE/SMOKE DAMPER
FGCO	FLUSH GRADE CLEAN OUT		SMOKE DAMPER
2" (1) 10"	FLOOR DRAIN AND TYPE		GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
RD	ROOF DRAIN		VOLUME EXTRACTOR AND TURNING VANES
2" (1) 80"	ROOF DRAIN AND TYPE		RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
V	VENT LINE (V.)		SUPPLY AIR DUCT SECTION UP AND DOWN
	DOMESTIC COLD WATER SUPPLY (DCW)		FLEXIBLE DUCT CONNECTION
	DOMESTIC HOT WATER SUPPLY (DHW)		ROUND OR RECTANGULAR DUCT
	DOMESTIC HOT WATER RETURN (DHW-R)		FLEXIBLE DUCT
HB/36"	HOSE BIBB AND MOUNTING HEIGHT		THERMOSTAT
WH	WALL HYDRANT		REFRIGERANT LIQUID
F	FIRE LINE/STANDPIPE		REFRIGERANT SUCTION
D	DRAIN LINE	AD	ACCESS DOOR
G	NATURAL GAS LINE	AFT	ABOVE FINISHED FLOOR
R	RISE & DROP IN PIPE WITH CUT-OFF VALVE	EA	EXHAUST AIR
REDUCER	REDUCER	OA	OUTSIDE AIR
CV	CHECK VALVE	RA	RETURN AIR
SV	STOP VALVE	SA	SUPPLY AIR
BV	BALANCING VALVE	VBS	VENT BELOW SLAB
PV	PLUG VALVE	VTR	VENT THRU ROOF
2-WAY	2-WAY CONTROL VALVE OR SOLENOID VALVE		CONNECT NEW TO EXISTING
3-WAY	3-WAY CONTROL VALVE OR SOLENOID VALVE		LOCKABLE GUARD
PRV	PRESSURE REDUCING VALVE		
STR	STRAINER		
U	UNION		
FP	FLEXIBLE PIPE CONNECTION		

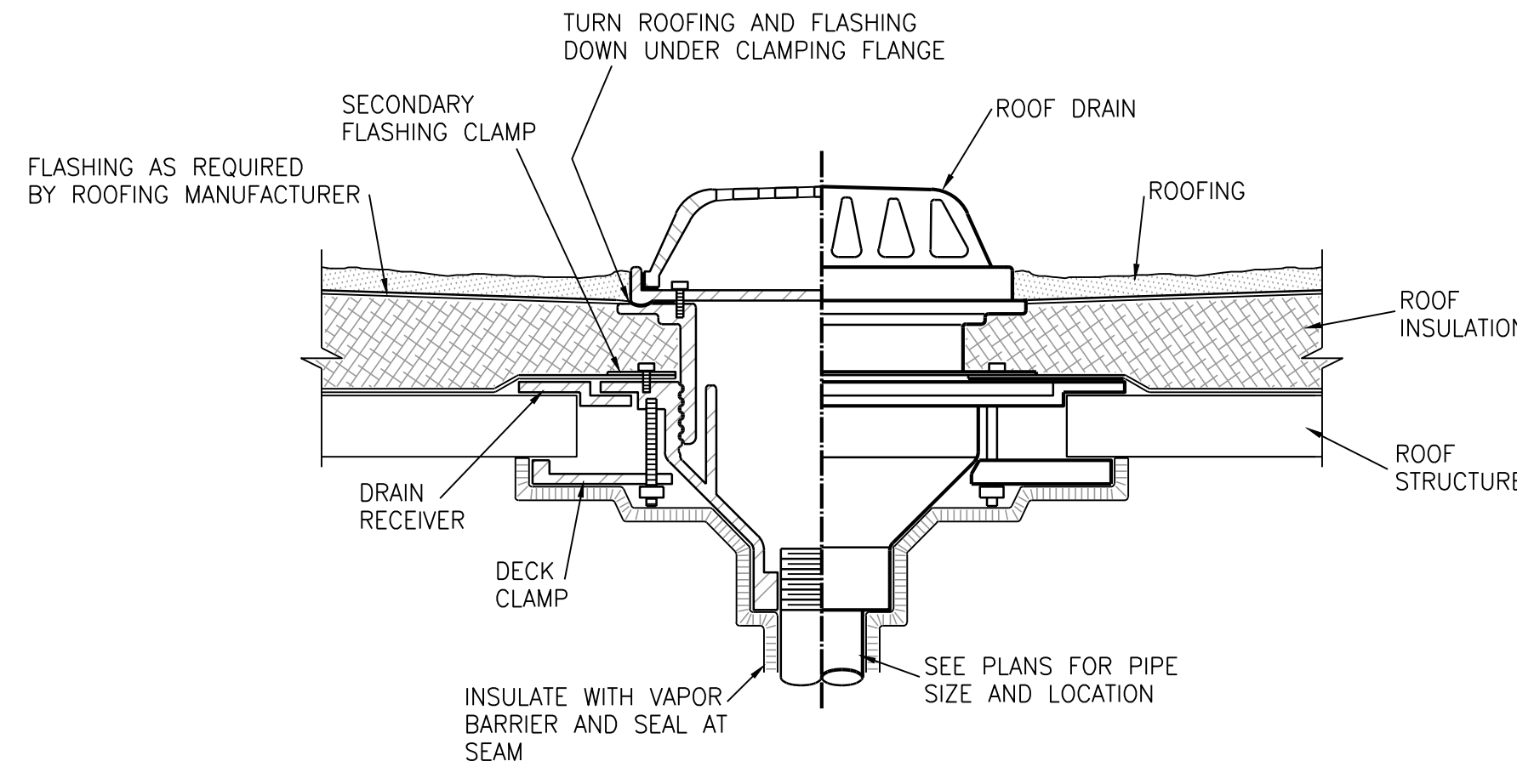
NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO ELECTRICAL SYMBOLS LEGEND FOR ELECTRICAL SYMBOLS THAT MAY BE SHOWN ON MECHANICAL PLANS.



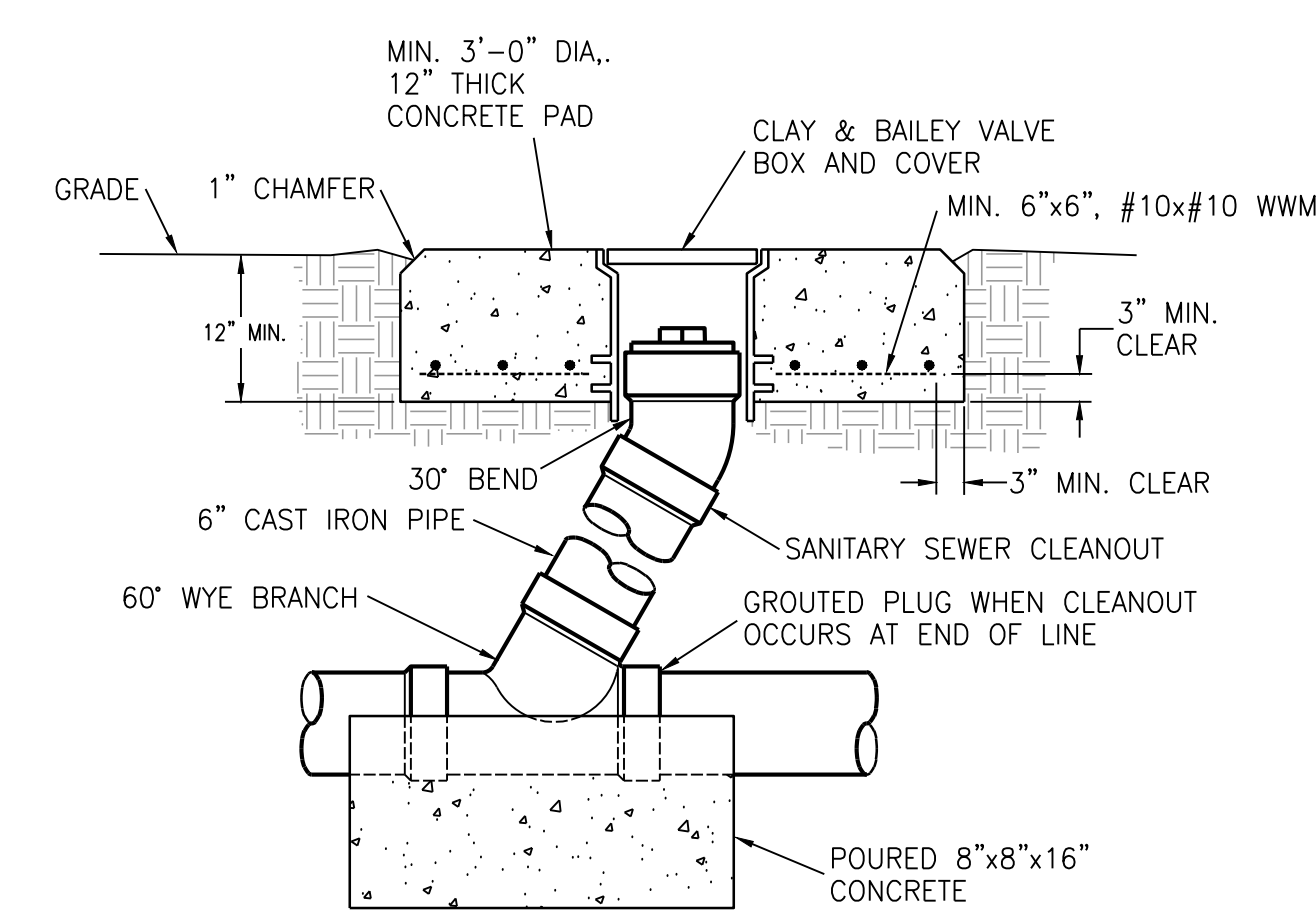
4 MECHANICAL CLOSET DETAIL
NO SCALE



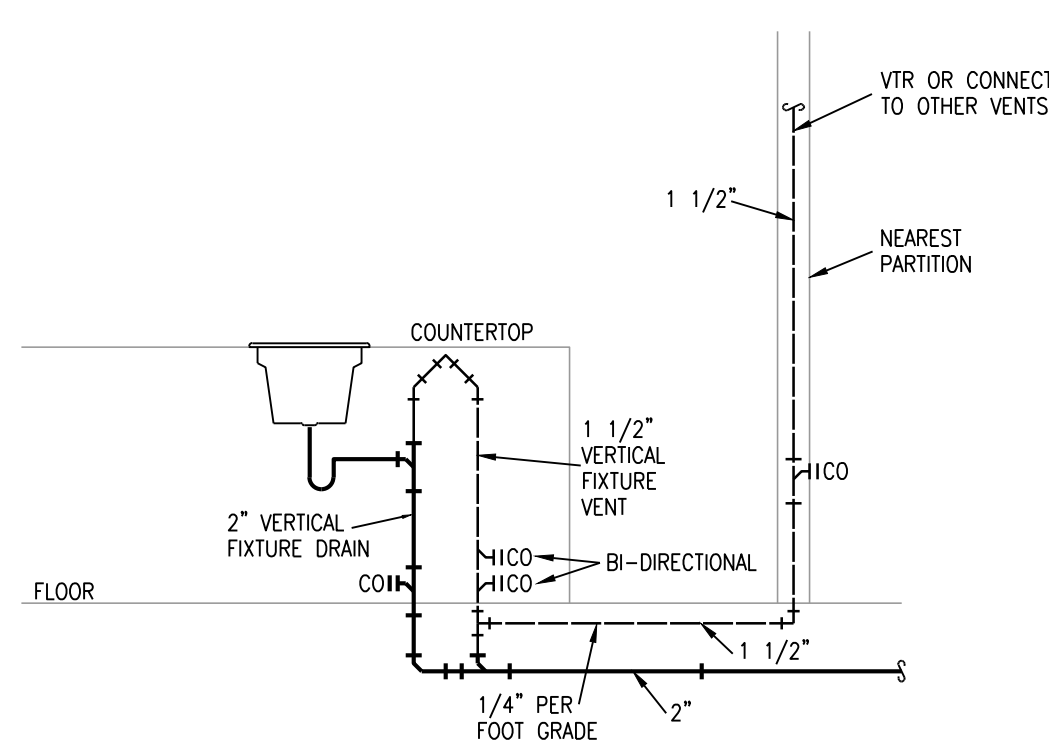
5 ELECTRIC WATER HEATER DETAIL
NO SCALE
COMMAND AREA



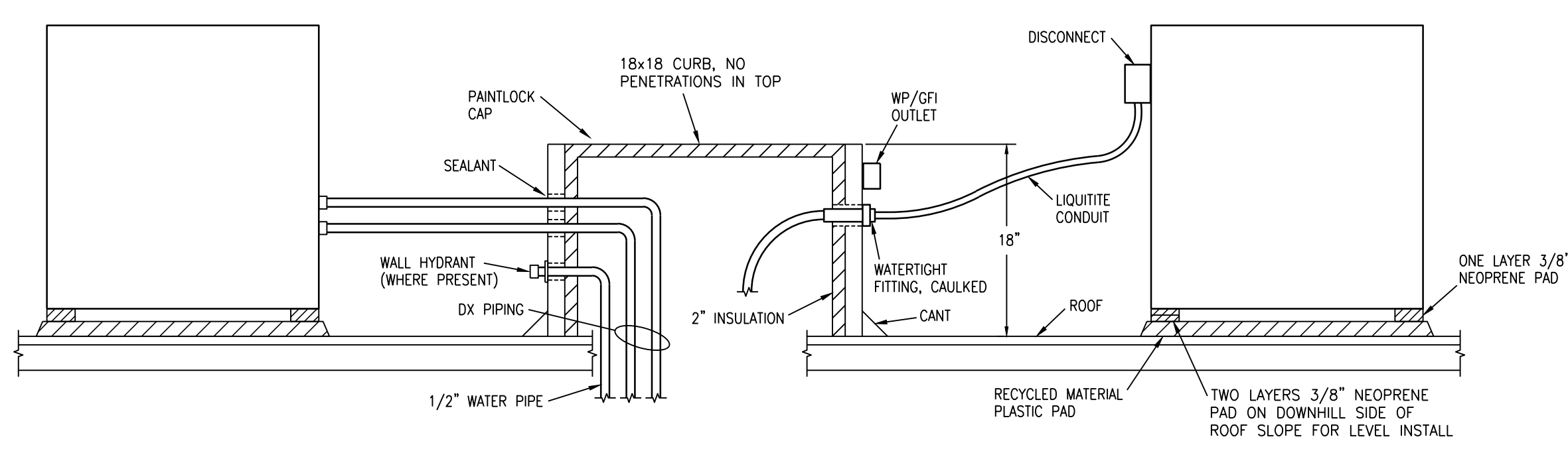
6 ROOF DRAIN DETAIL
NO SCALE



7 FLUSH GRADE CLEANOUT DETAIL
NO SCALE



8 ISLAND VENT DETAIL
NO SCALE



9 ROOF CURB DETAIL
NO SCALE

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CONSULTING ENGINEERS
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Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
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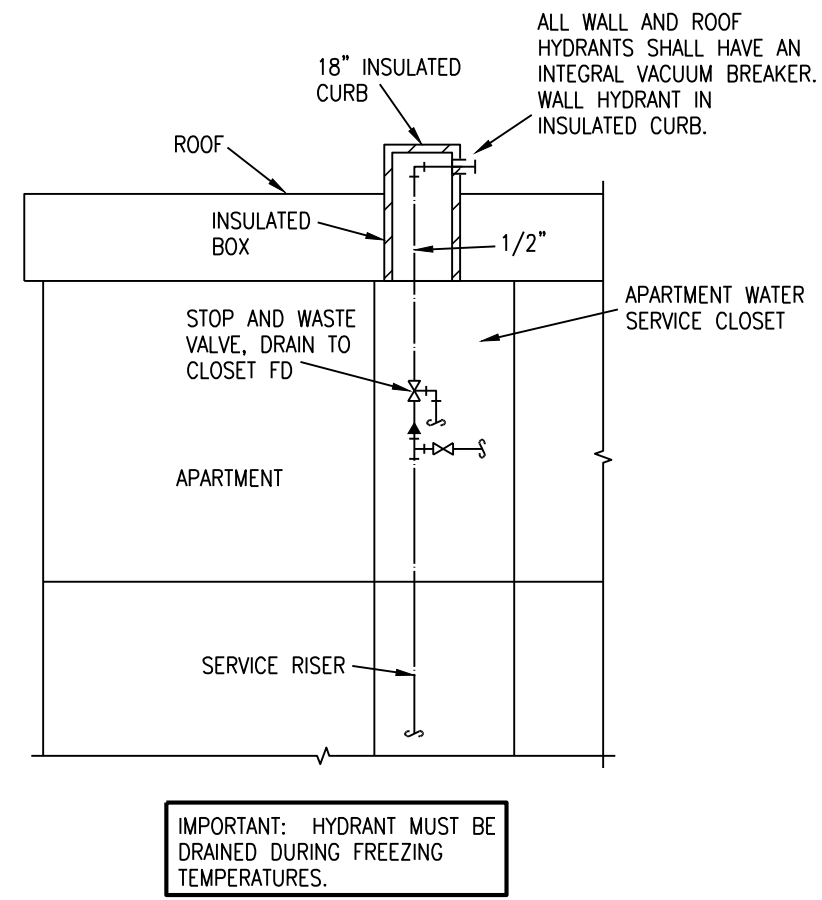
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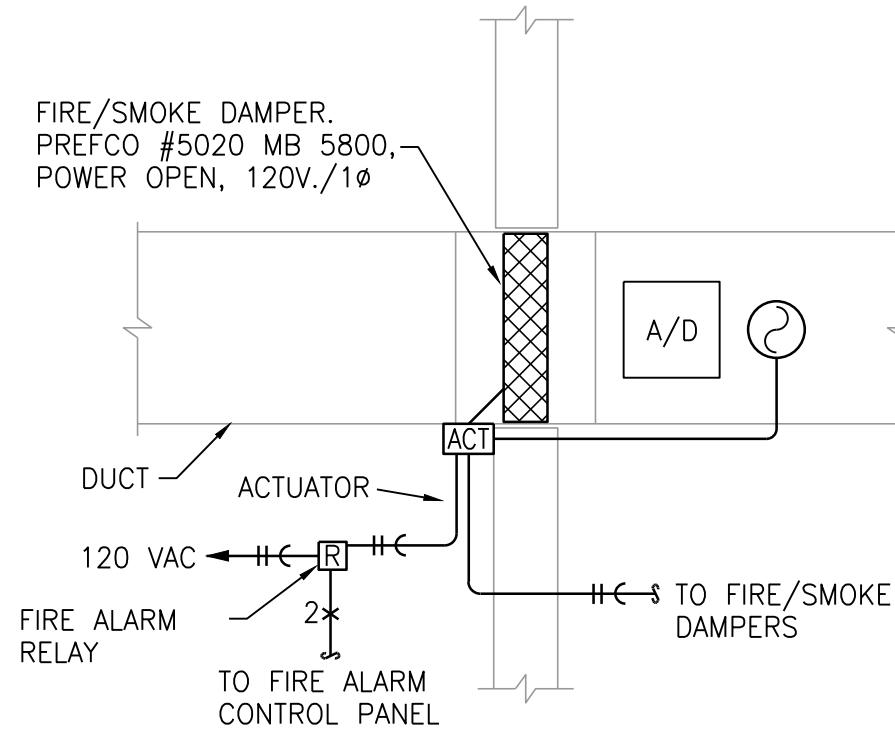
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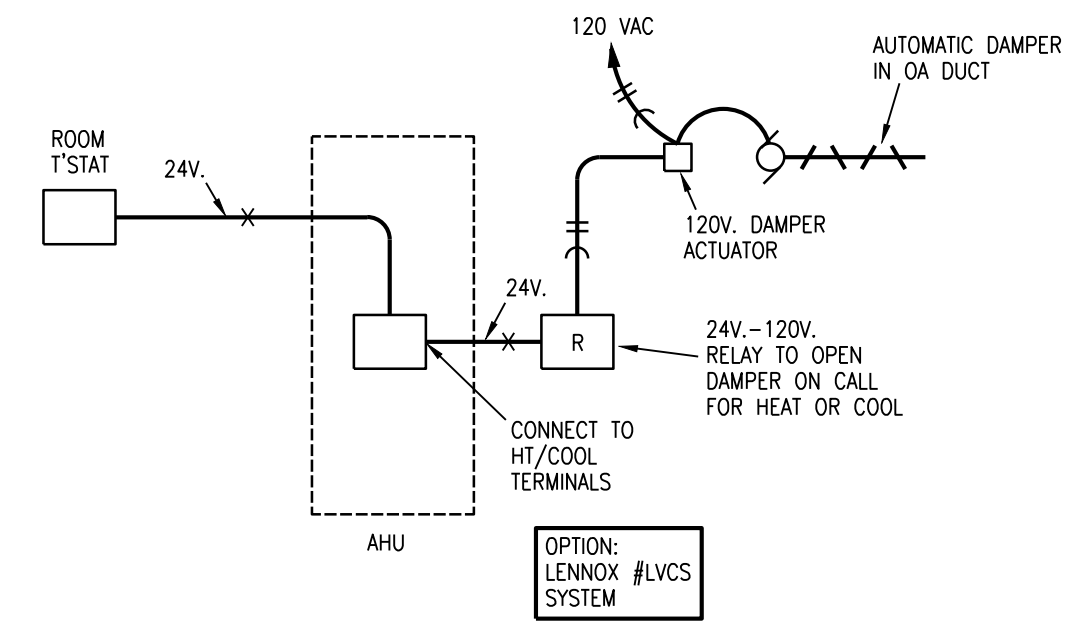
MECHANICAL DETAILS



1 ROOF HYDRANT DETAIL
NO SCALE



2 FIRE/SMOKE DAMPER DETAIL
NO SCALE



3 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NO SCALE (TYP. FOR CORRIDOR UNITS)



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

Filename: Prefco Submittal 5680 Rev 2/13/14

Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any flooring and reroofing 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)
 - McCauley 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 Marshal - #3225-1518-103

High Free Area Design
Optional Volume Control Device (5965)

Standard Sizes (duct)

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

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

Optional Extended Frame

A dim. is always width of blades

4 CEILING RADIATION DAMPER DETAIL
NO SCALE

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.

INSTALL VENT SYSTEM

1. Install exhaust hood

2. Connect vent to exhaust hood

STACKABLE 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.

INSTALL VENT SYSTEM

1. Install exhaust hood

2. Connect vent to exhaust hood

Vent System Chart, 27" Models

Number of 90° turns or elbows	Type of vent	Backflow/vented hoods	Angled hoods
0	Rigid metal	37 ft. (11.3 m)	35 ft. (10.7 m)
1	Rigid metal	32 ft. (9.7 m)	27 ft. (8.2 m)
2	Rigid metal	23 ft. (7.0 m)	19 ft. (5.8 m)

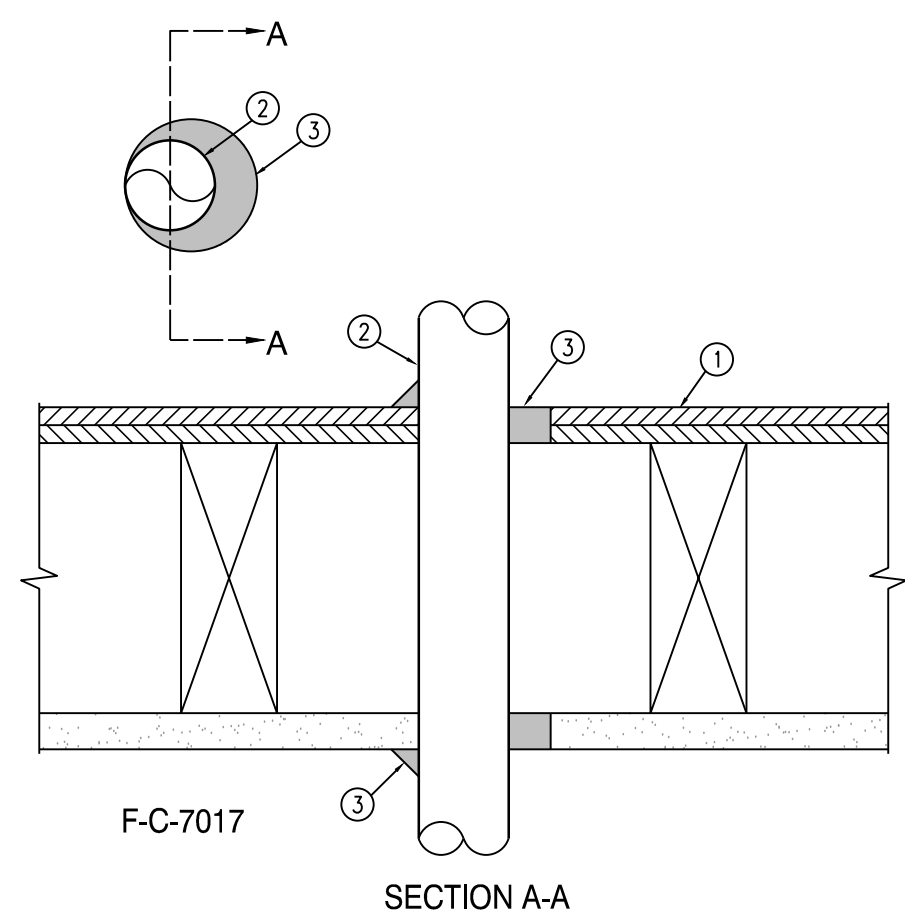
Vent System Chart, 24" Models

Number of 90° turns or elbows	Type of vent	Backflow/vented hoods	Angled hoods
0	Rigid metal	31 ft. (9.4 m)	30 ft. (9.1 m)
1	Rigid metal	23 ft. (7.0 m)	16 ft. (4.9 m)
2	Rigid metal	15 ft. (4.6 m)	15 ft. (4.6 m)

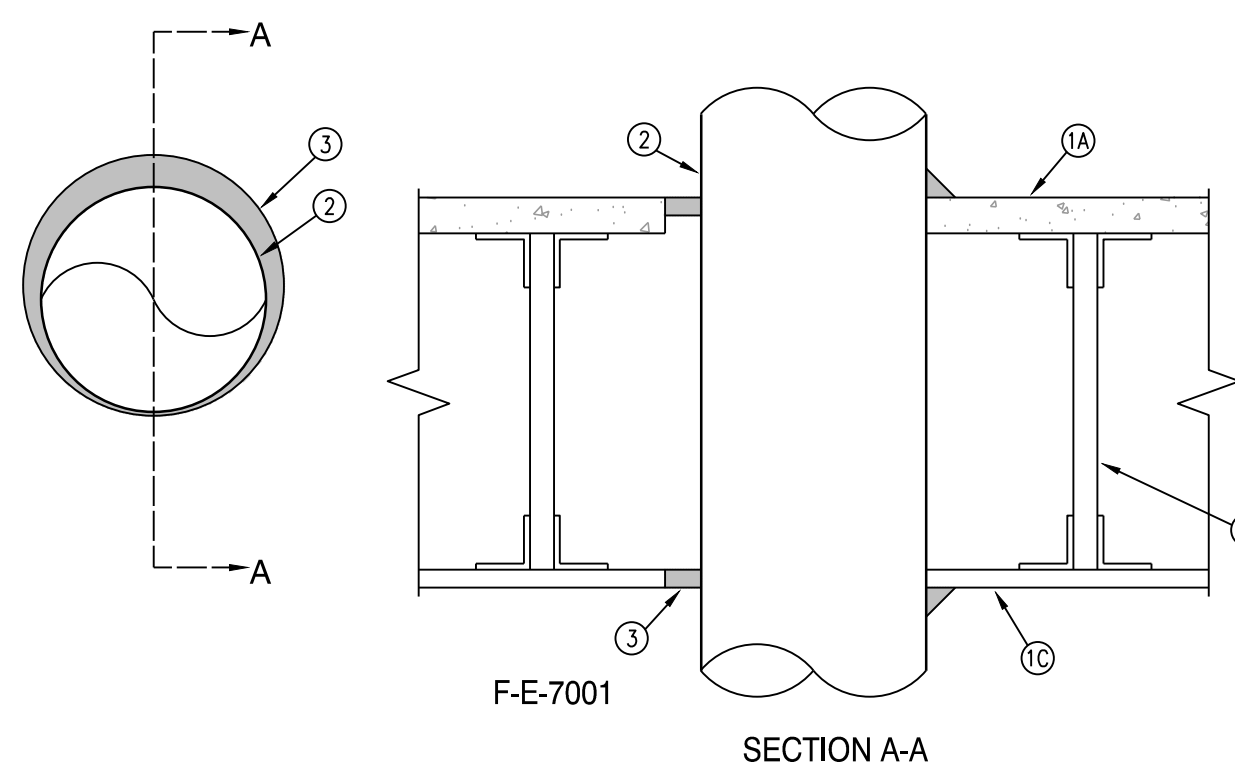
NOTES:

- Select route that will provide straightest and most direct path outdoors.
- When installation to use lowest 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.

5 DRYER VENT DETAIL
NO SCALE



6 FIRE STOP SYSTEM F-C-7017 DETAIL
NO SCALE



7 FIRE STOP SYSTEM F-E-7001 DETAIL
NO SCALE

LEGEND:

① FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 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 FIRESTOPPED.

C. GYPSUM BOARD* - NOM 4" (122mm) WIDE BY 5/8" (16mm) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FLOORING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).

D. GYPSUM BOARD* - THICKNESS TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

② CHASE WALL (OPTIONAL, NOT SHOWN) - THE DUCT (ITEM 2) MAY BE ROUTED THROUGH A FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM 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 2" 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 OF LAYERS AND FASTENERS SHALL 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 FIRESTOP 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 LOCATION ON THE TOP SIDE OF ASSEMBLY AND AT THE DUCT/CEILING OR TOP PLATE INTERFACE AT POINT CONTACT LOCATION ON BOTTOM SIDE OF ASSEMBLY.

3M COMPANY - FIREBAM 150+; CP 25WB+CAULK OR FB-3000 WT SEALANT.

* BEARING 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 SPECIFIED IN THE INDIVIDUAL C500 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:

A. FLOORING - NORMAL OR LIGHTWEIGHT CONCRETE AS SPECIFIED IN THE INDIVIDUAL C500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm).

B. JOISTS - STEEL JOISTS OR STRUCTURAL STEEL MEMBERS* AS SPECIFIED IN THE INDIVIDUAL C500 SERIES DESIGN.

C. GYPSUM BOARD* - MIN. 5/8" (16mm) THICK, SCREW-ATTACHED TO FLOORING CHANNELS AS SPECIFIED IN THE INDIVIDUAL C500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (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" (0 TO MAX 25mm). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

③ FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN. 5/8" (16mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4" (6mm) BEAD OF FILL MATERIAL APPLIED AT THE DUCT/FLOOR INTERFACE AT POINT CONTACT LOCATION ON 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+JC 15WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.

LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsaa.com
LSA PROJECT NO. 2104008

ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

TR,I ARCHITECTS
STRUCTURAL
CIVIL
GENERAL CONTRACTOR
ENGINEER
PLUMBING
ELECTRICAL

Together Development

The Signature at West Pryor

2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081

TR,I ARCHITECTS
1750 S. Brentwood Blvd.
St. Louis, Missouri 63144
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DATE: 7.15.2021

REVISIONS

DWG BY CAD/RRB
TR,I PROJECT NO. 20-001
SHEET NO. MP102
MECHANICAL DETAILS

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. WL-2186

F Ratings — 1 and 2 Hr (See Items 1 and 4)
T Ratings — 12 and 1 Hr (See Items 1 and 4)
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — 2 CFM/sq ft

WL 2186

SECTION A-A

1. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick gypsum board as required in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Sleeve** — (Optional) — Max 3 in. (76 mm) diam (or smaller) Schedule 40 cross-bred acetylene (PVC) tubing for use in closed (process or supply) piping systems. The tubing installed eccentrically or concentrically within the opening. The annular space between the tube and the steel sleeve or wall opening shall be equal to thickness of wall.

3. **Through Penetrant** — One nom 1 in. (25 mm) diam (or smaller) SDR 9 cross-bred acetylene (PVC) tubing for use in closed (process or supply) piping systems. The tubing installed eccentrically or concentrically within the opening. The annular space between the tube and the steel sleeve or wall opening shall be equal to thickness of wall.

4. **Fill, Void or Cavity Material*** — Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall opening periphery of opening to cover the exposed ends of the sleeve and to lap min 1/4 in. (6 mm) onto gypsum board on each side of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*Bearing the UL Classification Mark

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UL Classified
Underwriters Laboratories, Inc.
UL 1479 and CANULC 5115

System No. WL-1054

F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less Than 1 CFM/sq ft

WL 1054

SECTION A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/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 may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wide and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and steel orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/4 in. (89 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*Bearing the UL Classification Mark

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NOTES AND LEGENDS:

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 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 may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board* — One layer of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 8-5/8 in.

2. **Steel Sleeve** — Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast into wall assembly with joint compound and installed flush with wall surfaces.

3. **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

4. **Fill, Void or Cavity Material*** — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant

5. *Bearing the UL Classification Mark

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. WL-7017

F Rating — 1 AND 2 HR (SEE ITEM 1)
T Rating — 1 AND 2 HR (SEE ITEM 1)

1

SECTION A-A

1 FIRE STOP DETAIL
NO SCALE SYSTEM WL-7017

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. WL-2264

F Rating — 1 AND 2 HR (SEE ITEM 1)
T Rating — 1 AND 2 HR (SEE ITEM 1)

WL 2264

SECTION A-A

1. **Wall Assembly** — The 1 and 2 hr fire rated gypsum board/stud wall assemblies shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening shall be 1 in. (25 mm) larger than open pipe diam.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrations** — One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and periphery of opening shall be min 5/8 in. (16 mm), post contact to max 3/8 in. (10 mm). Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller). Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Chlorinated Polyethylene (CPE) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. Rigid Nonmetallic Conduit — Nom 2 in. (51 mm) diam (or smaller). Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NEC) 70.

D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed when pipes are used in closed (process or supply) piping systems.

3. **Fill, Void or Cavity Material*** — Caulk or Sealant — Min thickness of 5/8 in. (16 mm) of caulk applied within annulus between pipe or conduit and periphery of opening, flush with both surfaces of wall assembly. A. The post contact location between pipe or conduit and gypsum board, min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit gypsum board interface on both surfaces of wall assembly.

B. **NO COMPANY** — Fire Dam 150 — CP 250WB — IC 150WB — caulk or FR-3000 WFT sealant.

(Note: CP 250WB and Fire Dam 150 not suitable for use with CPVC pipes.)

*Bearing the UL Classification Mark

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3M Fire Protection Products
www.3m.com/firestop

WL-2264 • 1 of 1

Product Support Line
1-800-338-1867

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. WL-2344

F Rating — 2 Hr
T Rating — 2 Hr

WL 2344

SECTION A-A

1. **Wall Assembly** — The 2 hr fire-rated gypsum board/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 may consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board* — Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 3-1/2 in.

2. **Through Penetrations** — One nonmetallic pipe to be centered within the firestop system. A nom annular space of 3/8 to 1/2 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. Chlorinated Polyethylene (CPE) Pipe — Nom 4 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. **Firestop System** — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* — Wrap Strip — Two layers of nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip individually wrapped around the outer circumference of the pipe and slid into the annular space such that wrap strip extends 3/4 in. beyond both surfaces of wall. Butted ends in successive layers shall be offset. Wrap strip secured with glue, wire or tie wire.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP46E-EW451-3/4" Wrap Strip

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UL 1479 and CANULC 5115

System No. WL-7059

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 12 and 34 Hr (See Item 1)
FT Rating — 1 and 2 Hr (See Item 1)
FTI Rating — 12 and 34 Hr (See Item 1)

WL 7059

SECTION A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the steel stud (Item 2) shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a nom 6 in. (152 mm) wide and 12 in. (305 mm) higher than the width and height of the steel stud.

B. Wallboard, Gypsum* — 5/8 in. (16 mm) thick, 4 ft (122 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and steel orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 36 sq. in. (2320 sq. mm) max dimensions of 26-3/4 in. (679 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTI Ratings are 12 hr and 34 hr for 1 and 2 hr rated assemblies, respectively.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*Bearing the UL Classification Mark

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UL Classified
Underwriters Laboratories, Inc.
UL 1479 and CANULC 5115

System No. WL-7059

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 12 and 34 Hr (See Item 1)
FT Rating — 1 and 2 Hr (See Item 1)
FTI Rating — 12 and 34 Hr (See Item 1)

WL 7059

SECTION A-A

2. **Steel Stud** — Nom 2 in. by 12 in. (51 by 305 mm) (or smaller) No. 24 gauge (or heavier) steel stud to be installed eccentrically within the framed opening. The annular space shall be min 1 in. (25 mm) to max 1-3/4 in. (45 mm) Steel stud to be rigidly supported on both sides of wall assembly.

3. **Batts and Blankets*** — Max 1-1/2 in. (38 mm) thick glass fiber batt or blanket (min 3/4 in. or 12 kg/m³) jacketed on the outside with a foil-scrim kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). See Batts and Blankets — (BMY) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

4. **Fill, Void or Cavity Material*** — Sealant — Min 5/8 in. or 1-1/4 in. (16 or 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. If walls develop after the fill materials cure, the walls shall be sealed with additional fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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NOTES:

1. **Wall Assembly** — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 series wall and partition design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs: Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102mm) lumber spaced 16 in. (406mm) o.c. Steel studs to be min 3 1/2 in. (89mm) wide spaced max 24 in. (610mm) o.c.

B. Gypsum Board: The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual design in the UL fire resistance directory. Max diameter of opening is 5 in. (127mm).

The hourly f rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly f rating is 1 and 2 hr for 1 and 2 hr rated assemblies, respectively.

2. **Through Penetrations** — One nonmetallic pipe or conduit concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 3/4 in. (10mm) to max 5/8 in. (16mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types of sizes of nonmetallic pipes or conduits:

A. Polyvinyl Chloride (PVC) Pipe: Nom 4 in. (102mm) diameter (or smaller) schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Fire Retardant Polypropylene (FRPP) Pipe: Nom 4 in. (102mm) diameter (or smaller) schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

C. Rigid Nonmetallic Conduit: Nom 4 in. (102mm) diameter (or smaller) schedule 40 PVC conduit installed in accordance with the national electrical code (NFPA no. 70).

Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Materials — wrap strip: min 3/16 in. (5mm) thick intumescent material supplied in 2 1/2 in. (64mm) wide strips. Single layer of pre-cut wrap strip tightly wrapped around nonmetallic pipe and secured with the adhesive closure tab. Wrap strip to be slid into opening such that the outer edge of wrap strip extends approximately 5/8 in. (16mm) from both surfaces of wall.

B. Fill, Void or Cavity Material — Caulk or Sealant: Min 1/4 in. (6mm) diameter bead of sealant applied to gypsum board/wrap strip interface on both sides of wall.

U.L. SYSTEM NO. WL2551

F RATING = 1 AND 2 HR (SEE ITEM 1)
T RATING = 1 AND 2 HR (SEE ITEM 1)

2

SECTION A-A

2 FIRE STOP SYSTEM W-L-2551 DETAIL
NO SCALE

NOTES:

1. **Floor-Ceiling Assembly** The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features 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 diam of opening shall be 5 in.

B. Wood Joist* Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.

C. Gypsum Board* Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor-Ceiling Design.

2. **Closet Flange Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stud** sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Diam of circular opening through flooring (Item 1A) to be max 1/2 in. larger than outside diam of closet flange.

3. **Drain Piping** Nom 4 in. diam (or smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.

4. **Fill, Void or Cavity Material*** — Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with the bottom surface of floor.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant

*Bearing the UL Classification Mark

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. FC-2203

F Rating — 1 AND 2 HR (SEE ITEM 1)
T Rating — 1 AND 2 HR (SEE ITEM 1)

3

SECTION A-A

3 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-2203

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. FC-2142

F Rating — 1 AND 2 HR (SEE ITEM 1)
T Rating — 1 AND 2 HR (SEE ITEM 1)

4

SECTION A-A

4 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-2142

LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3332
FAX: (785) 233-0647
Email: lsas@aol.com
LSA PROJECT NO. 2104008

UL Classified
Underwriters Laboratories, Inc.
UL 1479

System No. WL-7059

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 12 and 34 Hr (See Item 1)
FT Rating — 1 and 2 Hr (See Item 1)
FTI Rating — 12 and 34 Hr (See Item 1)

WL 7059

SECTION A-A

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the steel stud (Item 2) shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a nom 6 in. (152 mm) wide and 12 in. (305 mm) higher than the width and height of the steel stud.

B. Wallboard, Gypsum* — 5/8 in. (16 mm) thick, 4 ft (122 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and steel orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 36 sq. in. (2320 sq. mm) max dimensions of 26-3/4 in. (679 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTI Ratings are 12 hr and 34 hr for 1 and 2 hr rated assemblies, respectively.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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System No. WL-7059

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 12 and 34 Hr (See Item 1)
FT Rating — 1 and 2 Hr (See Item 1)
FTI Rating — 12 and 34 Hr (See Item 1)

WL 7059

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HILTI CONSTRUCTION CHEMICALS

WATER HEATER SCHEDULE												
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/ AMPS	INPUT	EFFICIENCY PF	GALLONS STORAGE	GPH RECOVERY @ 80° RISE	FLUE TYPE	EXPANSION	CIRCULATOR GPM/HD	NOTES
TYP APT	A.O. SMITH	ECLN-40	ELEC	208/1/19	4.5 KW	0.95	38	23	N/A			1, 2, 3
WH-2/1, 2/2, 2/3, 2/4, 1/1, 1/2, 1/3, 1/4	A.O. SMITH	EMT-2.5	ELEC	120/1/13	1.4 KW	N/A	2.5	7	N/A	RELIEF V.		1, 2
WH-M	A.O. SMITH	ECLN-40	ELEC	208/1/19	4.5 KW	0.95	38	23	N/A			1, 2, 3

NOTES:
1- PROVIDE ASME P&T VALVE, DRAIN VALVE
2- PROVIDE COMBINATION STOP AND OPERATING PRESSURE RELIEF VALVE
3- LOW TYPE

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MFGR	MODEL	KW	MBH	CFM	ELECTRICAL				CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCB	WIRING	
EUH - A	BERKO	FRA-4024	3.0	10.2	100	208/1	12	20	(3) #12	WALL, 1, 4, 5
EUH - B	BERKO	HUAAA-1520	15.0	51.0	910	208/3	42	60	(2) #8 (1) #10	SUSPENDED, 4, 7
EUH - C	BERKO	SRG-1512	1.5	5.1	65	120/1	12	20	(3) #12	CEILING, 1, 4, 6
EUH - D	BERKO	QMKC2514W	1.0	3.4		120/1	8.3	20	(3) #12	FLOOR, 1, 4

NOTES:
1-SURFACE MOUNTED
2-SEMI-RECESSED
3-FULLY RECESSED
4-DISCONNECT
5-INTEGRAL TSTAT

PUMP SCHEDULE										
MARK	MFGR	MODEL	TYPE	MEDIUM	GPM	FT. HEAD	SUMP	HP	ELEC	NOTES
ELEV SUMP	ZOELLER	152	SUBMERSIBLE	WATER	50	15	2' X 2' DEEP	1.5	120/1	1, 2, 3

NOTES:
1. PLUG IN FLOAT CONTROL WITH 20 FT CORD, HIGH OIL SENSING, HIGH WATER LIGHTS/HORN CONTROL PANEL.
2. PROVIDE WITH SIMPLEX #940-0005 SWITCH AND CONTROL PANEL WITH PIGGYBACK CORD, ADJUSTABLE SETPOINTS.
3. PUMP MUST PROVIDE 90 GPM AT 15 FEET OF HEAD

DRAIN SCHEDULE									
MARK	APPLICATION	MFGR	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SHAPE	ACCESSORIES	
APT FD	FLOOR	SIOUX CHIEF	842	ABS/PVC	3"	NICKEL BRONZE	6" SQUARE	2	
FD-1	FLOOR	ZURN	ZN-416S	COATED CAST IRON	3"	NICKEL BRONZE	6" ROUND	1, 2	
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE	1, 2, 3	
RD-1	ROOF	SIOUX CHIEF	888	ABS/PVC	6"	POLY	DOME		
RD-2	ROOF	SIOUX CHIEF	888-STP2	ABS/PVC	6"	POLY	DOME	4	

ACCESSORIES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD CONSTRUCTION
3 - INTERNAL STRAINER
4 - 2" DAIH FOR OVERFLOW SERVICE

AIR TERMINAL DEVICE SCHEDULE						
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A190	WHITE	YES	GYP BD	
B	AIR MATE	170	WHITE	NO	GYP BD	
B1	AIR MATE	280 FF	WHITE	NO	GYP BD	
C	AIR MATE	240 YO	WHITE	YES	GYP BD	
D	PRICE	620DALN/LA/B12	WHITE	YES	GYP. BD.	W/CRD
E	PRICE	635N/LA/B12	WHITE	NO	GYP. BD.	
E1	PRICE	635DAL/LA/B12	WHITE	YES	GYP. BD.	

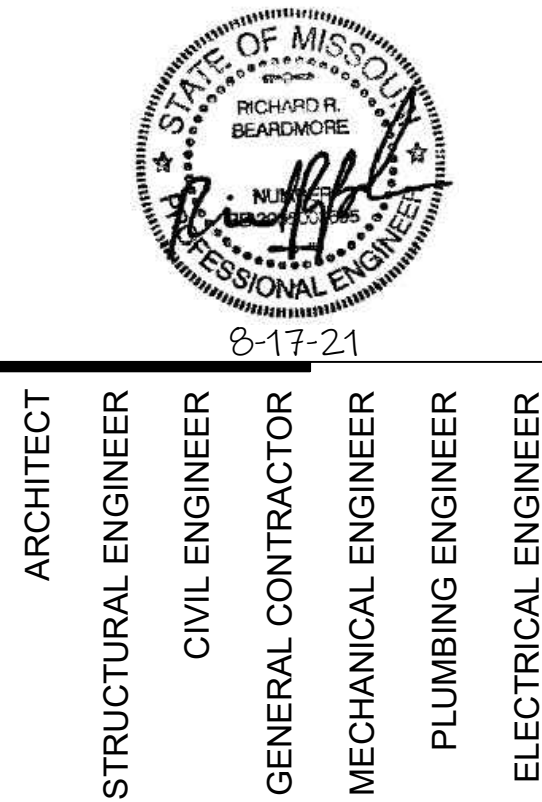
FAN SCHEDULE										
MARK	MFGR	MODEL	CFM	ESP	FAN HP	ELECTRICAL			CONFIGURATION	N - NOTES
						VOLTS/ S/ PH	FLA	OCB		
APT EF	AIR KING	FRAK80H	80	0.1	Fr.	120/1	1	15	(3) #12	ceiling, 1
EF-1/1 - 1/4, 2/1 - 2/3, M1, M2	AIR KING	FRAK80	80	0.1	Fr.	120/1	1	15	(3) #12	ceiling, 1

NOTES:
1-CEILING GRILLE, CRD, DS, WALL/ROOF CAP

HVAC SYSTEM SCHEDULE																			
MARK UNITS	MFGR	NOM TON	MODEL	CFM	OA CFM	AHU/RTU			ELEC	FLA	OCB	MFGR	OUTDOOR UNIT				NOTES		
						E.S.P.	HP	SMBH					MODEL	ELEC	FLA	OCB			
A1, A2, A4	GOODMAN	1 1/2	AWUF2408C14	600		0.5	0.2	12.4	17.4	5.6 KW	208/1	31	40	GOODMAN	GSX14018	208/1	14	20	14.0
A3, A5, B1, B2, B3, B4	GOODMAN	2	AWUF2408C14	750		0.5	0.2	17.2	22.8	6.4 KW	208/1	31	40	GOODMAN	GSX14024	208/1	14	25	14.0
C1, C2	GOODMAN	2 1/2	AWUF3010C14	950		0.5	0.33	20.6	27.4	7.5 KW	208/1	41	60	GOODMAN	GSX14030	208/1	15	30	14.0
COMMON AREAS																			
1/1, 1/4 - 1/11, 2/1, 2/2, 2/4 - 2/10	GOODMAN	2	ARUF25B14	800-800	100	0.5	0.33	17.0	23.2	7.5 KW	208/1	40	50	GOODMAN	GSX14025	208/1	14	25	14.0
1/3, 1/2	GOODMAN	5	ARUF61D14	1850-1950	285	0.5	0.75	41	57.5	11.4 KW	208/1	57	70	GOODMAN	GSX14-0601	208/1	26.3	50	14.0
2/2, 2/3	GOODMAN	4	ARUF47D14	1400-1600	250	0.4	0.5	32	45	11.4 KW	208/1	57	70	GOODMAN	GSX14-0481	208/1	21.2	45	14.0
MAINT	GOODMAN	4	ARUF47D14	1350	100	0.4	0.5	32	45	11.4 KW	208/1	57	70	GOODMAN	GSX14-0481	208/1	21.2	45	14.0
DSS-1/1 - 1/5, 2/1 - 2/5	FUJITSU	1 1/2	ASU18RLF	540	0	0			18	23 MBH	208-240/1 W/HP	FUJITSU	ASU18RLF	208-240/1	13	25	19	WALL STAT, LOW AMB	
DSS-1/6	FUJITSU	1 1/2	AU18RLFCC	400					18	21 MBH	208-240/1 W/HP	FUJITSU	AOU18RLFCC	208-240/1	7.7	20	20	WALL STAT, LOW AMB	

NOTE: PROVIDE LONG LINE ACCESSORY KIT ON ALL SPLIT SYSTEMS THAT EXCEED MFGR'S LIMITS

PLUMBING FIXTURE SCHEDULE														
Mark	Item	Model	Description	Individual Connections				Accessories						
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other	
P-1	Water Closet, Tank Type	ProFlo #PF1401T	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide molded wood closed front elongated white seat with integral bumpers, external check hinges with stainle	3" or 4"	2"	1"		2						
P-1H	Accessible Water Closet, Tank Type	ProFlo #1403T	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide molded wood closed front elongated white seat with integral bumpers, external check hinges with stainless st	3" or 4"	2"	1"		2						
P-2	Lavatory, Countertop	ProFlo #PF20174 with Pfister #LF-49-PEGS	20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish, 1.2 GPM, metal pop-up.	2"	1 1/2" or 2"	1/2"	1/2"	2	1			1	1	1 ON ACCESSIBLE UNITS
P-2W	Lavatory, Wall hung	ProFlo #PF5511VH with Pfister #LF-049-PEB	ADA compliant, wall hung, single hole 20"x18" oval vitreous china lavatory with overflow. Faucet is ADA compliant, 1.2 GPM.	2"	1 1/2" or 2"	1/2"	1/2"	2	1			1	1	
P-3	Bathtub	Aquatic Bath 260030 with Pfister 8P8-PESGS	60" x 36" x 15" tall non-slip basin and tub overflow and turn and lift stop with finish to match faucet. Pressure-balanced single handle Brushed nickel valve, 2.5 gpm showerhead, tub spout with pull-up diverter. Provide future grab bar blocking. Water	2"	2"	1/2"	1/2"					2, 4		
P-3S	Shower	Aquatic Bath 3636CPANNS with Pfister LG89-7FEK	36" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with surround, soap dishes. Pressure-balanced single handle valve, 2.5 gpm brushed nickel showerhead, drain to match.	2"	2"	1/2"	1/2"					2		
P-3SH	ADA Shower	Freedom Showers 38 1/2" x 37 1/2" with Pfister LG16-3RHK	ADA 38 1/2" x 37 1/2" white fiberglass reinforced plastic/acrylic non-slip basin with surround, soap dishes. Pressure-balanced single handle valve, 2.5 gpm brushed nickel showerhead, drain to match.	2"	2"	1/2"	1/2"					2		
P-4	Kitchen Sink	ProFlo #PFUC206 with Pfister #LG529-NES	Stainless steel under-mount 20 ga dual bowl 33" x 22" x 8" deep. Single handle faucet with pull-out sprayer. Evergrid Model E101 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1			2	2	
P-4H	Accessible Kitchen Sink	Elkay ELUHAD281655 with Delta 16968	bowl 33" x 22" x 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	
P-4C	Kitchen Sink	ProFlo #PFUC206 with PFISTER #LG529-NEB	Stainless steel under-mount 20 ga dual bowl 33" x 22" x 8" deep. Single handle faucet with pull-out sprayer. Evergrid Model E101 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1			2	2	
P-5	Washer Box	Guy Gray #WVB200HATM	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 #BIM877GTS	Recessed non-metallic with two angle quarter turn stops.			1/2"		1						
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, pall hook, 3/4" hose threaded spout.	2" or 3"	2"	1/2"	1/2"					2		2
P-9	Accessible Dual Height Fountain with Bottle Filler	Elkay #LZ5TL6WSLK	ADA wall-mounted water station including bubbler and bottle-filler, side and front push buttons.	2"	1 1/2" or 2"	1/2"		2	1			2		
Supplies	1 - Flexible braided stainless steel 2 - Flexible braided compression hose. 3 - Zum #ZER6003-CP 1.0 gpf diaphragm type. 4 - Provide tempering valve below sink set at 110 deg													
Stops	1 - Angle handle compression													
Carrier	1 - Steel tube floor-mounted in-wall carrier with arms													
P-Trap	1 - PVC with deep escutcheon 2 - PVC 3 - deep seal PVC trap and 30" standpipe.													
Drain	1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece.													
Other	1 - Provide trap and supply guard if exposed. 2 - Provide mop bracket, hose bracket, SS wall guards													



ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER



The Signature at West Pryor
2100 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



TRI Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63144
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T: 314-365-9750
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REVISIONS 2

△ PERMIT REVIEW COMMENTS 08-17-21

DWG BY CAD/RRB

TR, PROJECT NO. 20-001

SHEET NO.

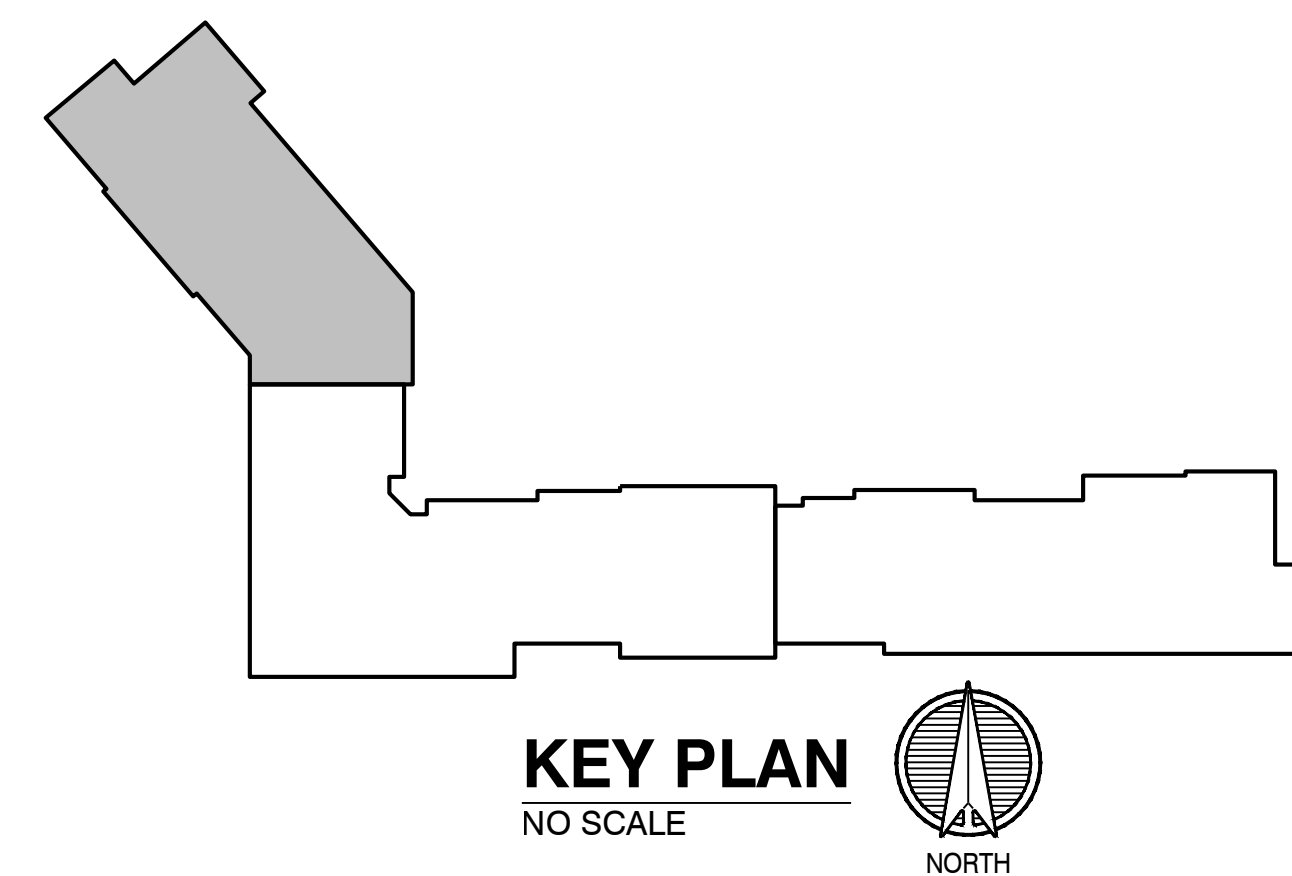
MP104
MECHANICAL SCHEDULES



LSA PROJECT NO. 2104008



1 BLDG 1-A, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" PLUMBING NORTH



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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6-17-21

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GENERAL CONTRACTOR
MECHANICAL ENGINEER
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2100 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



TRi Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63114
T: 314-365-9750
www.triarchitects.com
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REVISIONS 2

△ PERMIT REVIEW COMMENTS 08-17-21

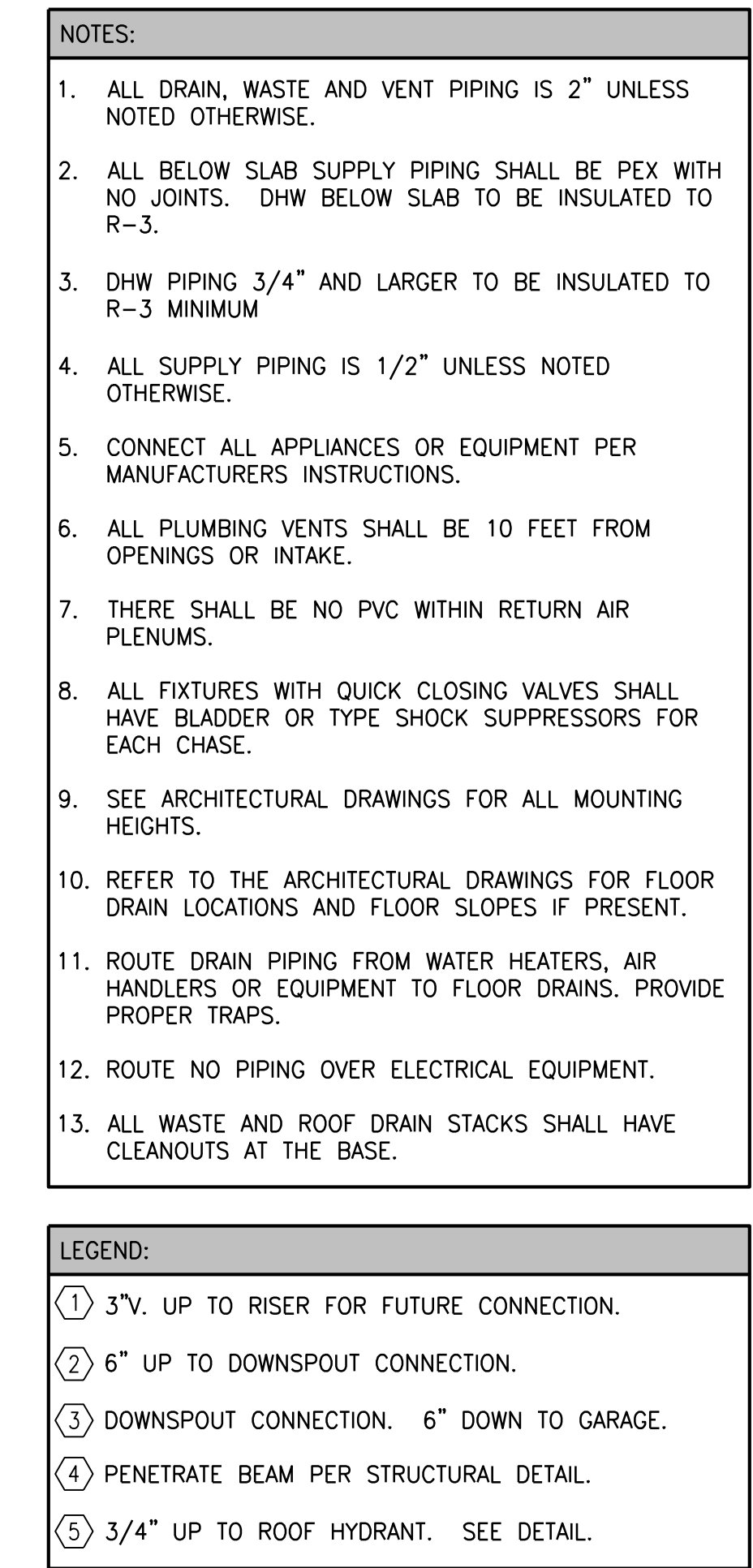
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TRi PROJECT NO. 20-001

SHEET NO.

P101
BLDG 1-A, PARTIAL FIRST FLOOR
PLAN - PLUMBING

LS&A
Latter Sommer
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lepa@lsa.com
LSA PROJECT NO. 2104008



The Signature at West Pryor

2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



TRJ Architects
1790 S. Brentwood Blvd.
St. Louis, Missouri 63144
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REVISIONS 

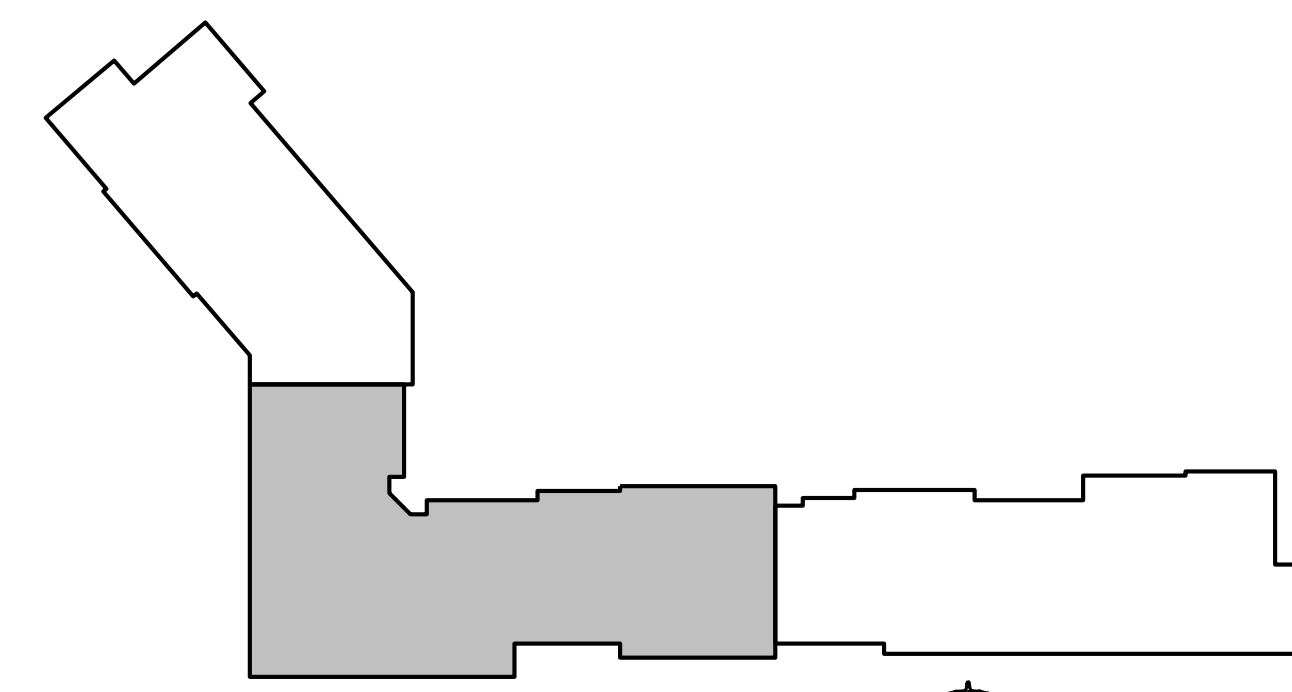
DWG BY	CAD/RRB
TR : PROJECT NO	20-001

SHEET NO.

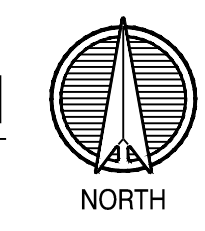
P102

**BLDG 1-B, PARTIAL FIRST FLOOR
PLAN - PLUMBING**

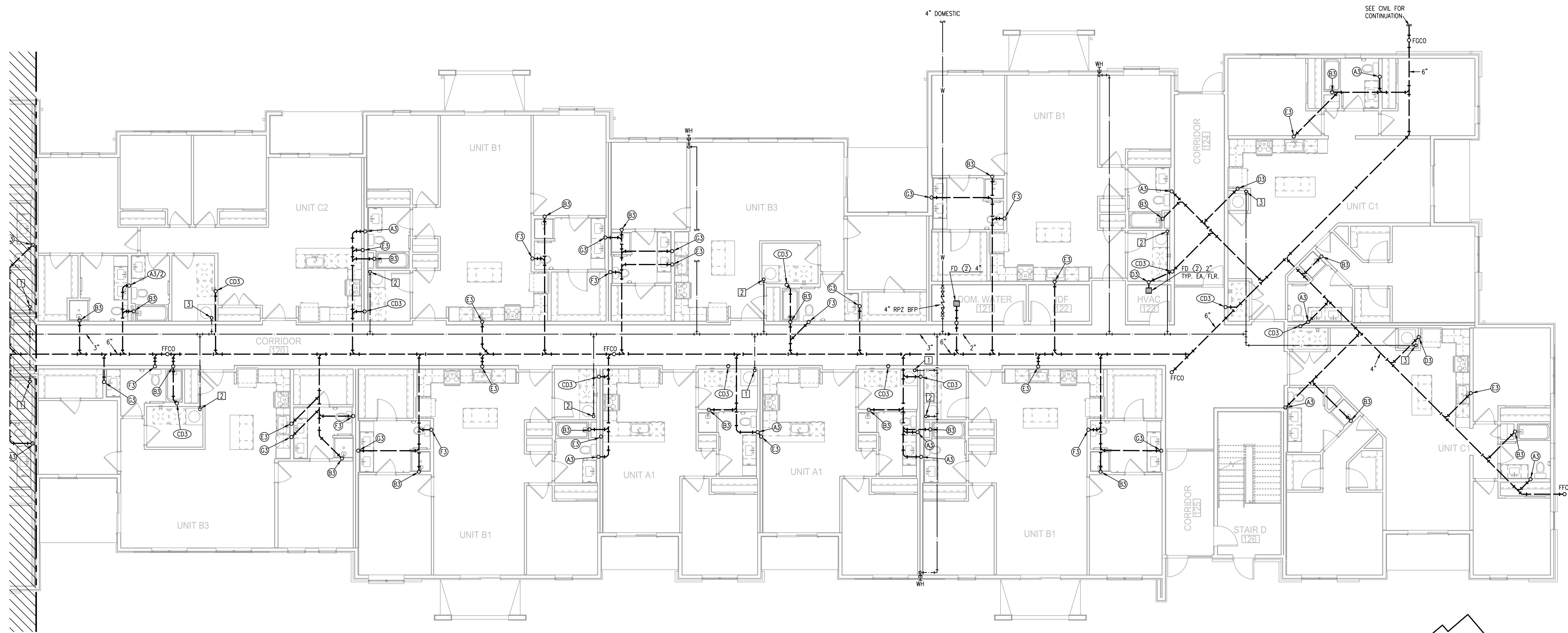
1 **BLDG 1-B, PARTIAL FIRST FLOOR PLAN** 
1/8" = 1'-0" PLUMBING NORTH



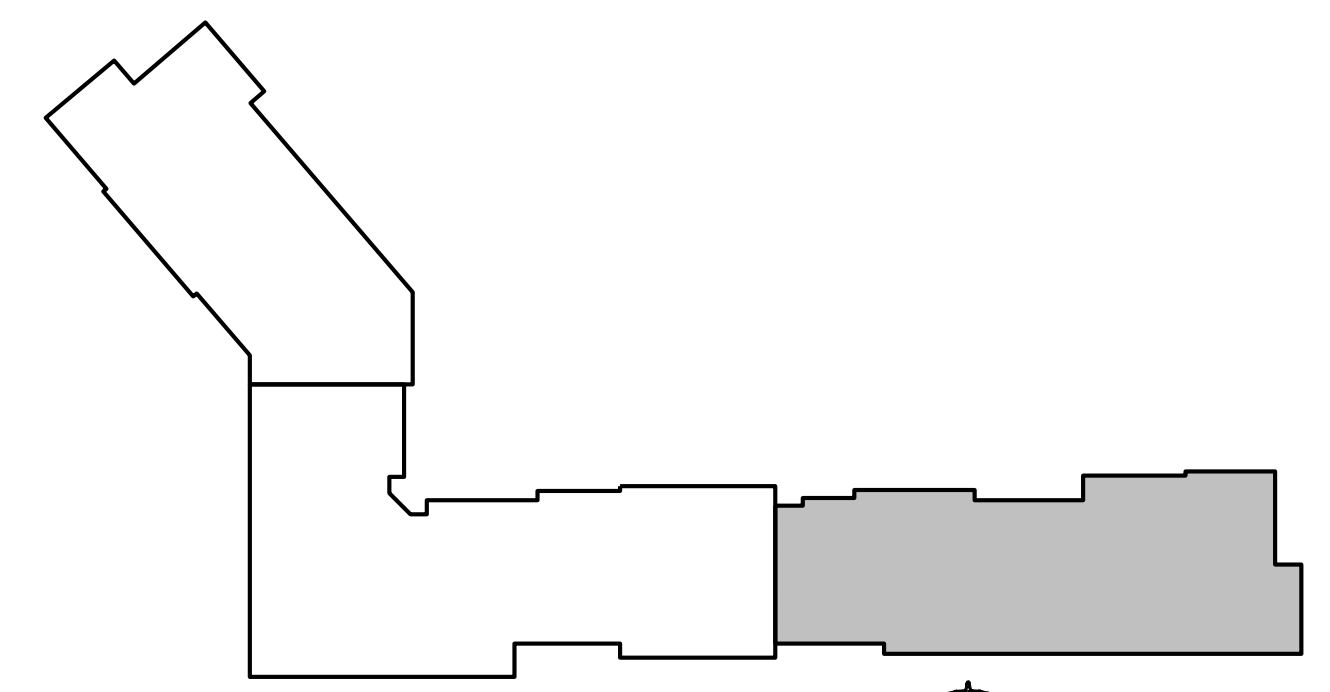
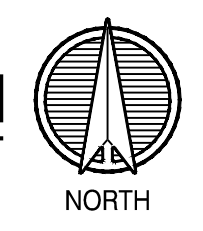
KEY PLAN
NO SCALE



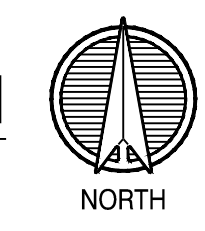
LS&A
Latimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO: 2104008



1 BLDG 1-C, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" PLUMBING



KEY PLAN
NO SCALE



LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsa.com
LSA PROJECT NO. 210408

NOTES:

1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

LEGEND:

- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
- ② 6" UP TO DOWNSPOUT CONNECTION.
- ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
- ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
- ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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7-15-21

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GENERAL CONTRACTOR	GENERAL CONTRACTOR
MECHANICAL ENGINEER	ENGINEER
PLUMBING ENGINEER	PLUMBING
ELECTRICAL ENGINEER	ELECTRICAL

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LEE'S SUMMIT, MISSOURI 64081

TRi ARCHITECTS
TRi Architects
1750 S. Brentwood Blvd.
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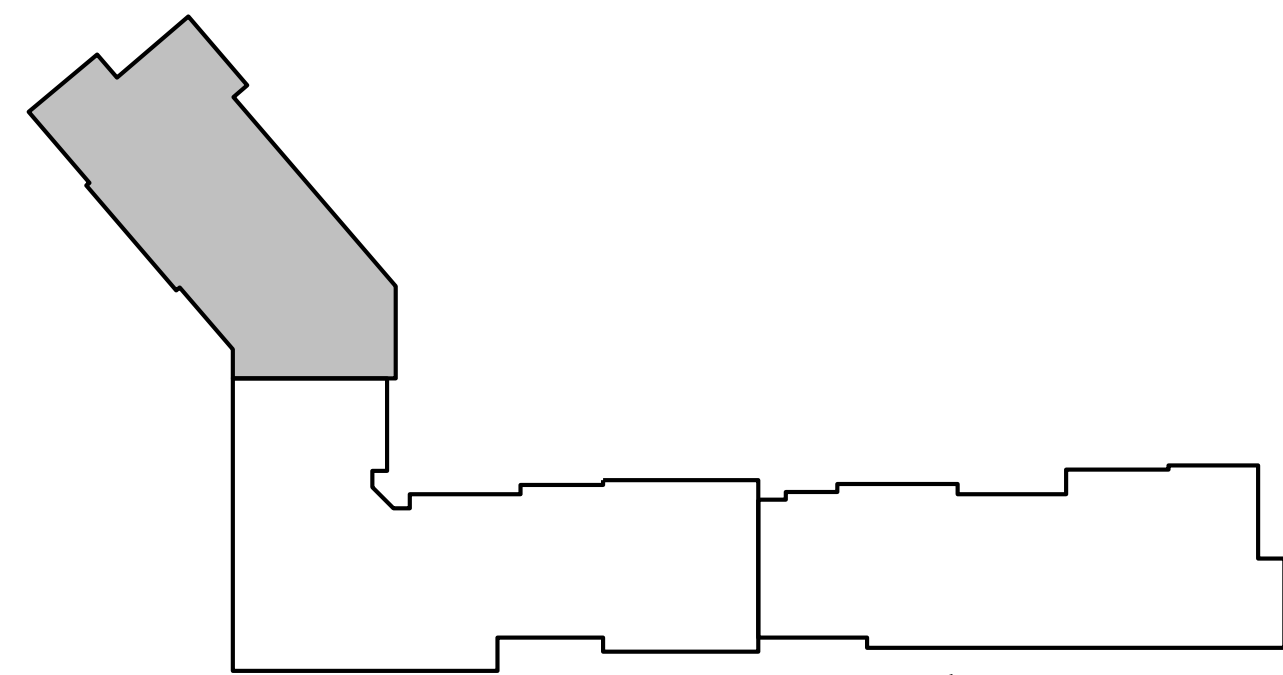
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REVISIONS

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TRi PROJECT NO.	20-001
SHEET NO.	P103
BLDG 1-C, PARTIAL FIRST FLOOR PLAN - PLUMBING	



1 BLDG 1-A, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" PLUMBING NORTH



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
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 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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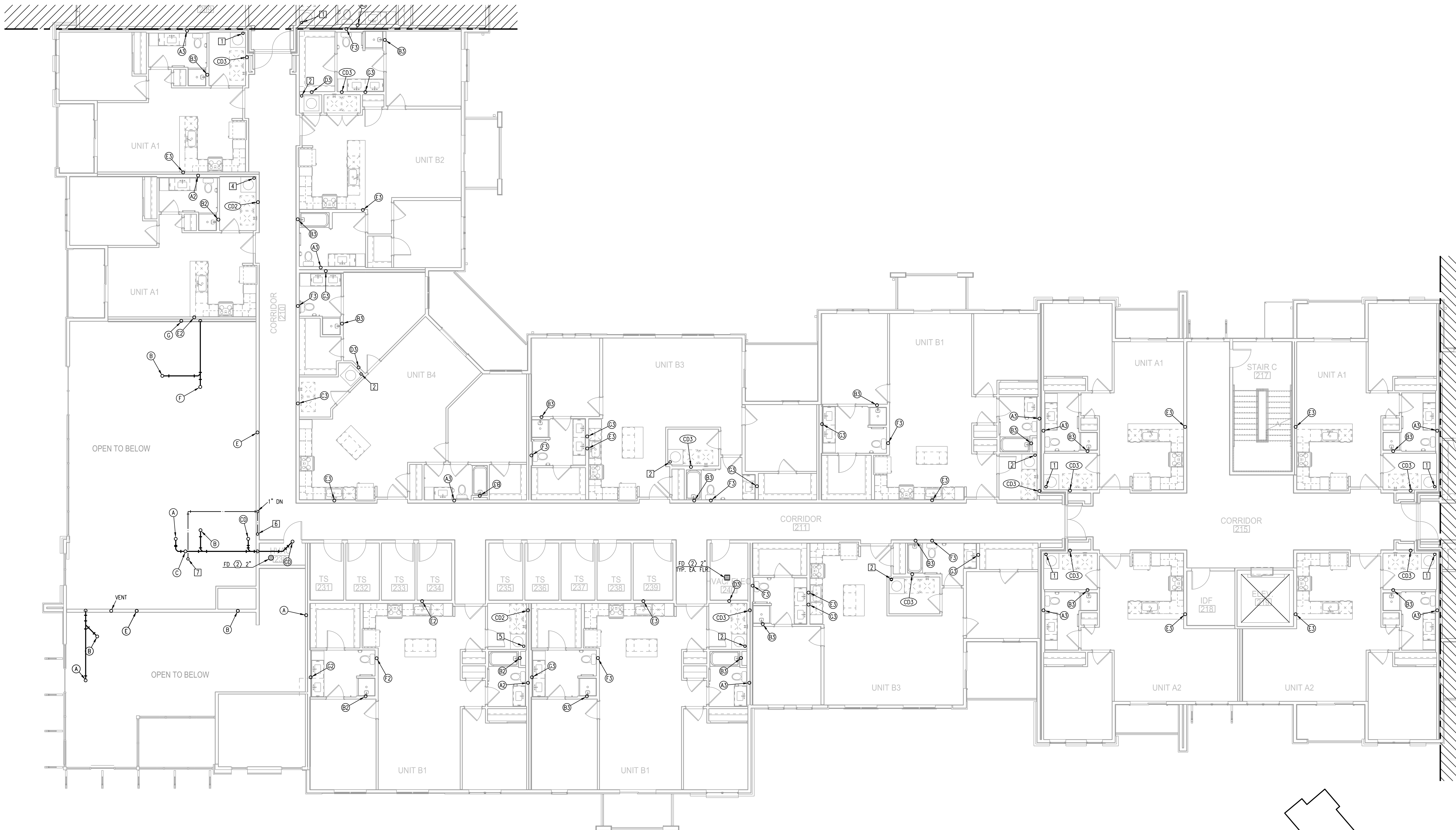
TR,I PROJECT NO. 20-001

SHEET NO.

P104

BLDG 1-A, PARTIAL SECOND
FLOOR PLAN - PLUMBING

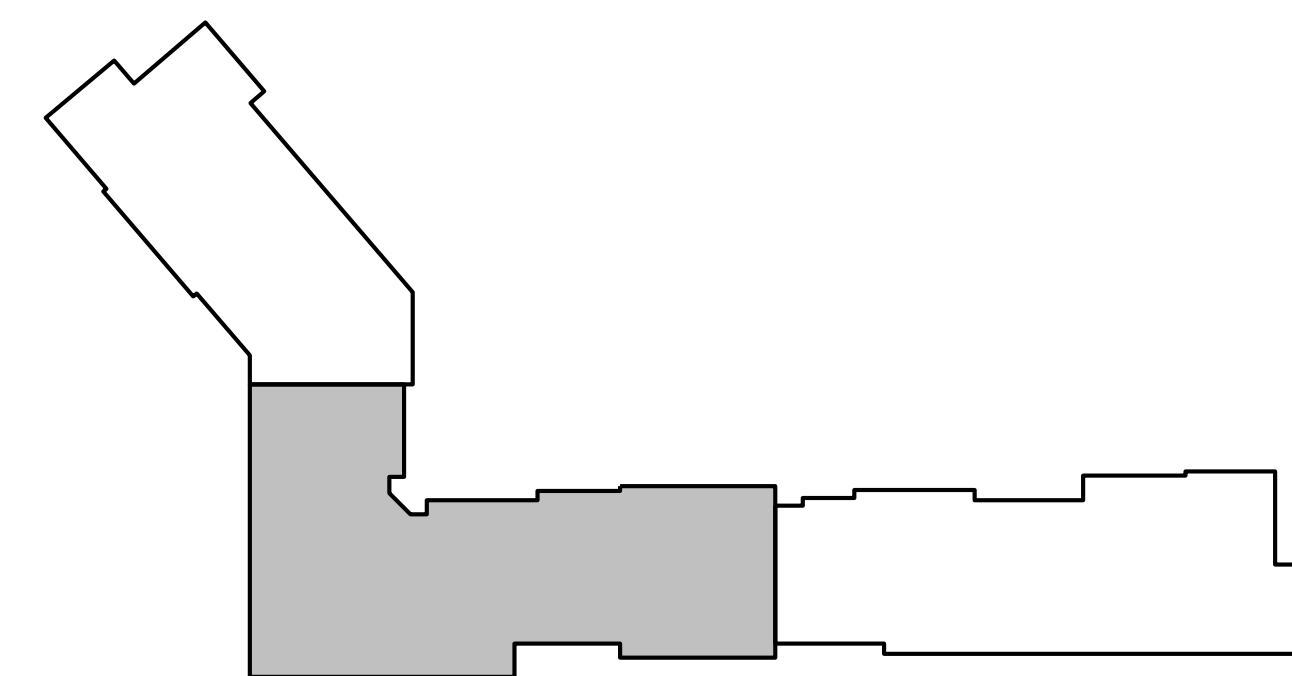
LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104008



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

1 BLDG 1-B, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0"
PLUMBING



KEY PLAN
NO SCALE



LS&A
Lattimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@aol.com
LSA PROJECT NO. 210408

STATE OF MISSOURI
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GENERAL CONTRACTOR
MECHANICAL ENGINEER
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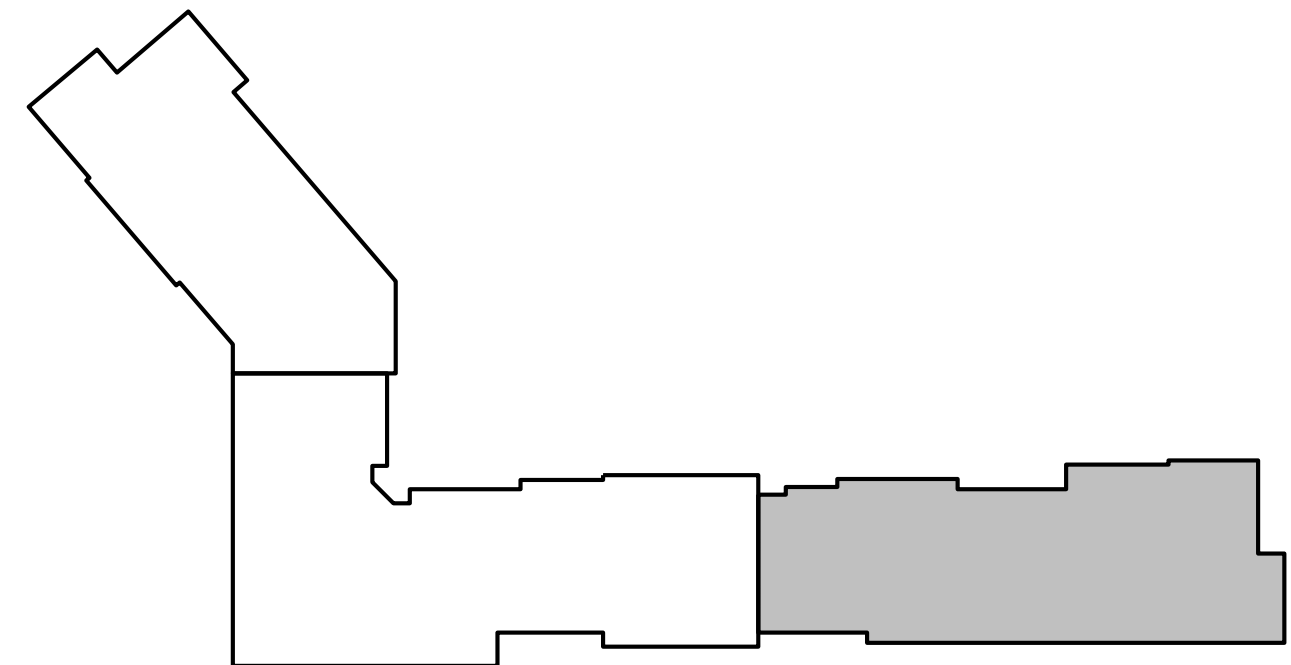
SHEET NO.

P105

BLDG 1-B, PARTIAL SECOND
FLOOR PLAN - PLUMBING



1 BLDG 1-C, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" PLUMBING NORTH



KEY PLAN
NO SCALE NORTH

LS&A
Latter Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsa.com
LSA PROJECT NO. 210408

- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
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 8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
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 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.
- LEGEND:
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 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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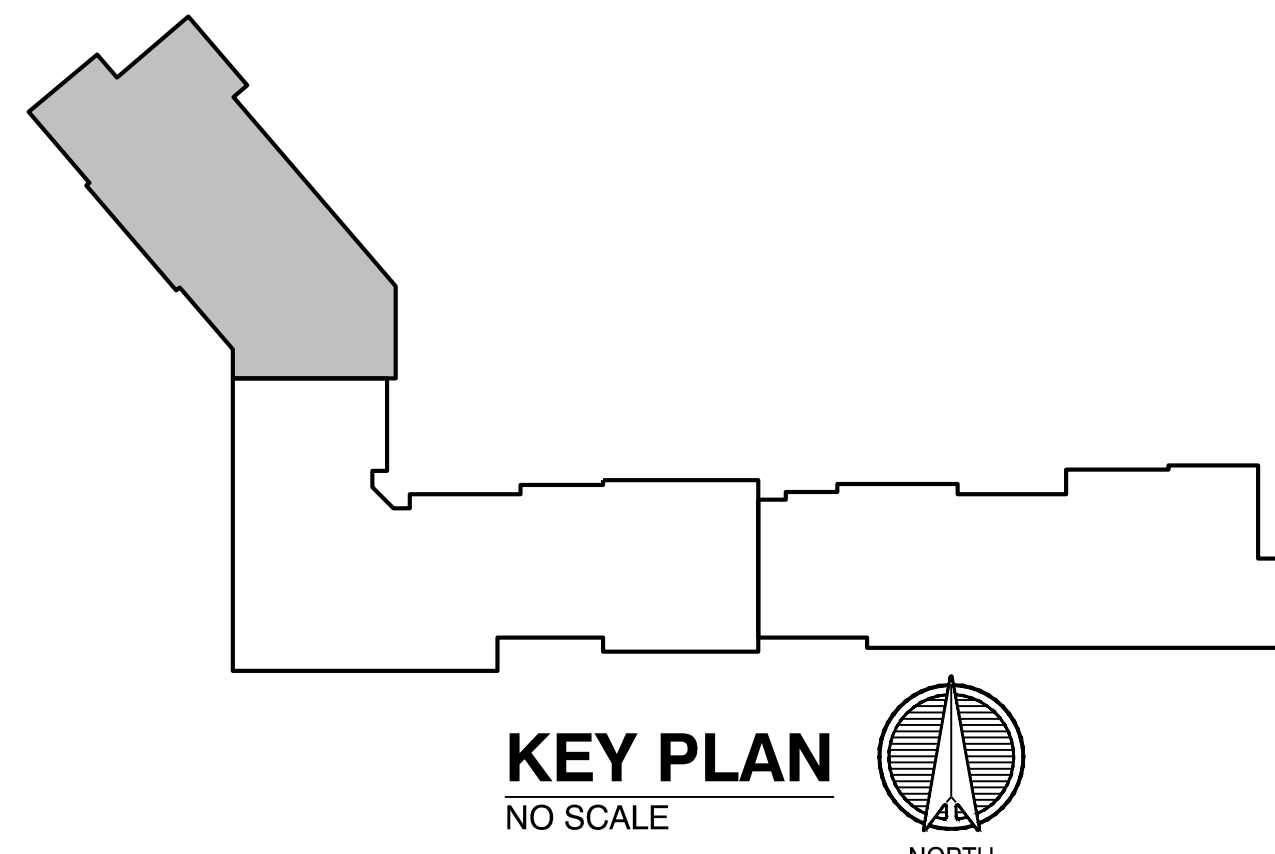
TR,I PROJECT NO. 20-001

SHEET NO.

P106
BLDG 1-C, PARTIAL SECOND
FLOOR PLAN - PLUMBING



1 BLDG 1-A, PARTIAL THIRD FLOOR PLAN
1/8"=1'-0" PLUMBING NORTH



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
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 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
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- LEGEND:
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 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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7-15-21

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MECHANICAL ENGINEER
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St. Louis, Missouri 63114
T: 314-385-9750
www.triarchitects.com

DATE: 7.15.2021

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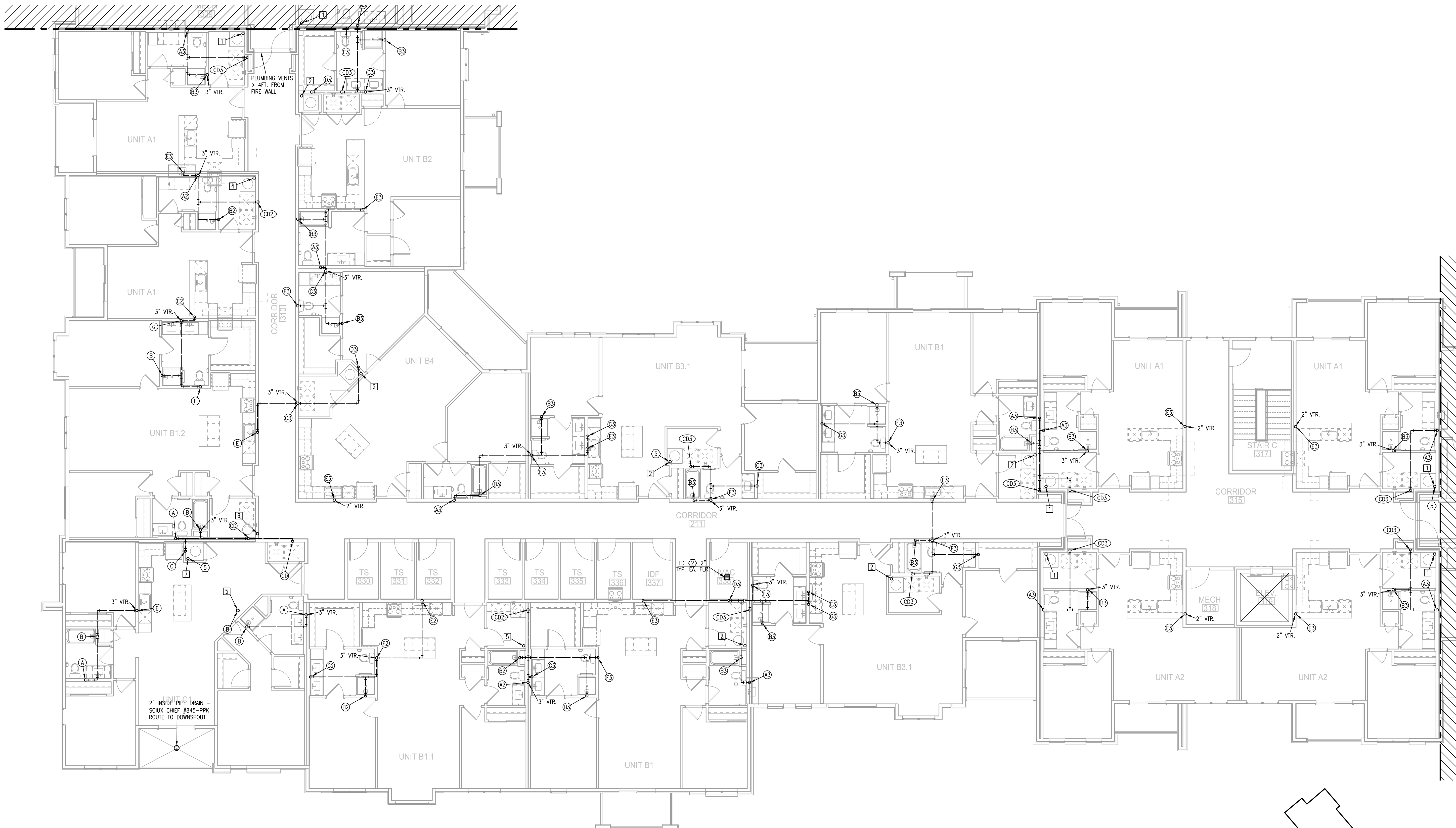
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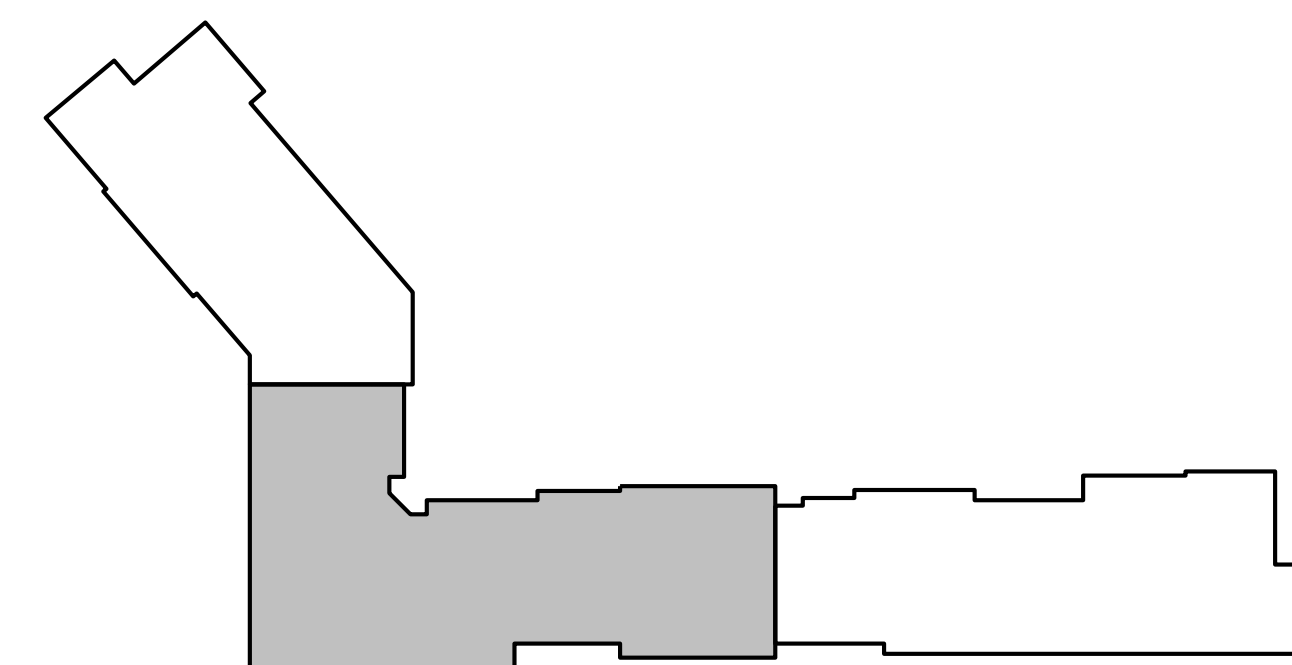
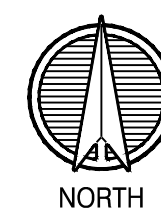
SHEET NO.

P107
BLDG 1-A, PARTIAL THIRD FLOOR
PLAN - PLUMBING

LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@ls&a.com
LSA PROJECT NO. 2104008



1 BLDG 1-B, PARTIAL THIRD FLOOR PLAN
1/8"=1'-0" PLUMBING



KEY PLAN
NO SCALE



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
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SHEET NO.

P108
BLDG 1-B, PARTIAL THIRD FLOOR
PLAN - PLUMBING

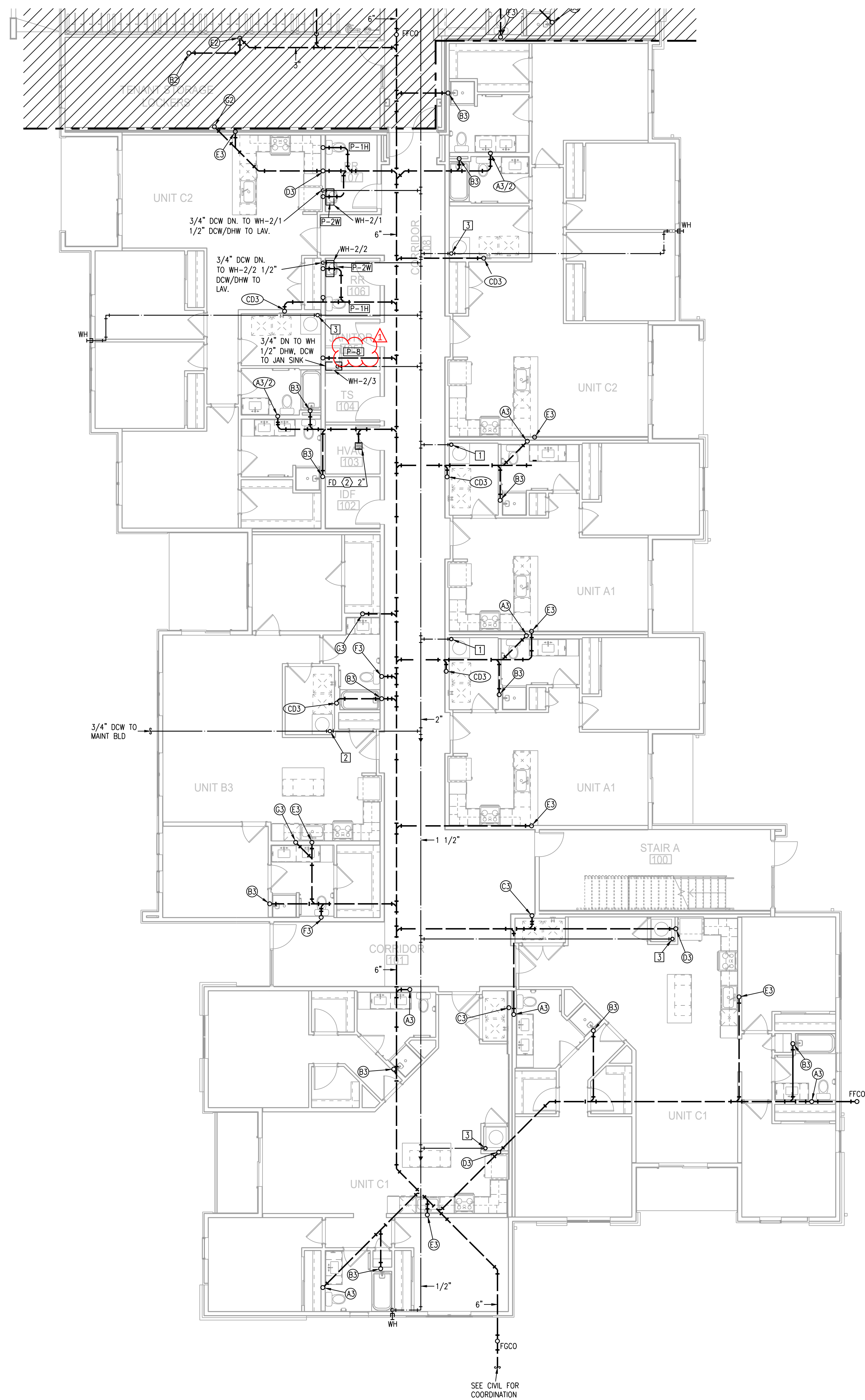


- | LEGEND: | |
|---------|--|
| ① | 3"V. UP TO RISER FOR FUTURE CONNECTION. |
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| ④ | PENETRATE BEAM PER STRUCTURAL DETAIL. |
| ⑤ | 3/4" UP TO ROOF HYDRANT. SEE DETAIL. |

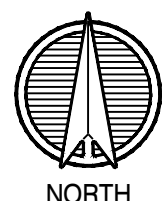


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BLDG 1-C, PARTIAL THIRD FLOOR
PLAN - PLUMBING

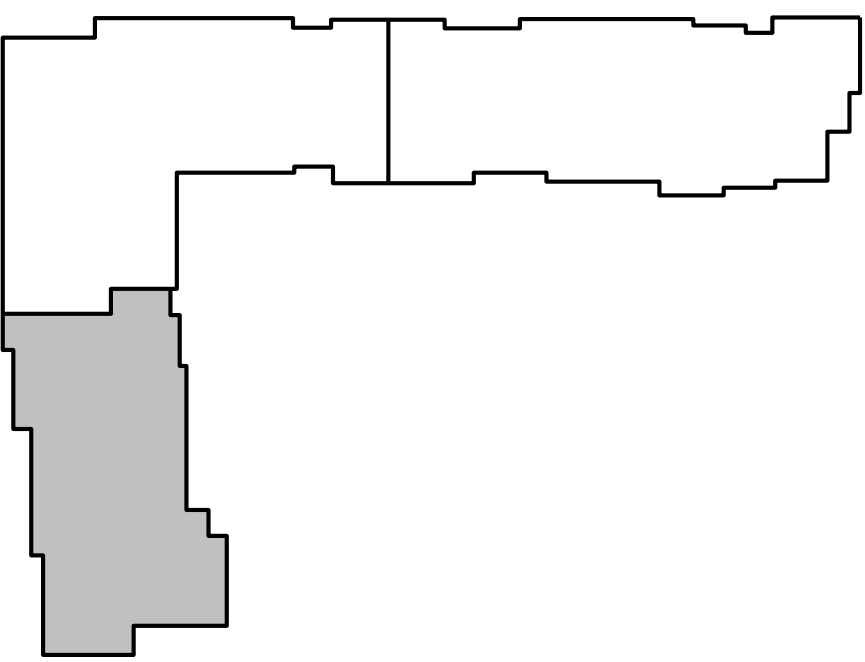


1 BLDG 2-A, PARTIAL FIRST FLOOR PLAN
1/8" = 1'-0" PLUMBING



- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE

LS&A
Latter Sommer
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
Fax: (785) 233-0647
Email: lsap@lsapa.com
LSA PROJECT NO. 2104008

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
8-17-21

ARCHITECT	ARCHITECTS
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CIVIL ENGINEER	CIVIL
GENERAL CONTRACTOR	GENERAL CONTRACTOR
MECHANICAL ENGINEER	ENGINEER
PLUMBING ENGINEER	PLUMBING
ELECTRICAL ENGINEER	ELECTRICAL

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1750 S. Brentwood Blvd.
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DATE: 7.15.2021

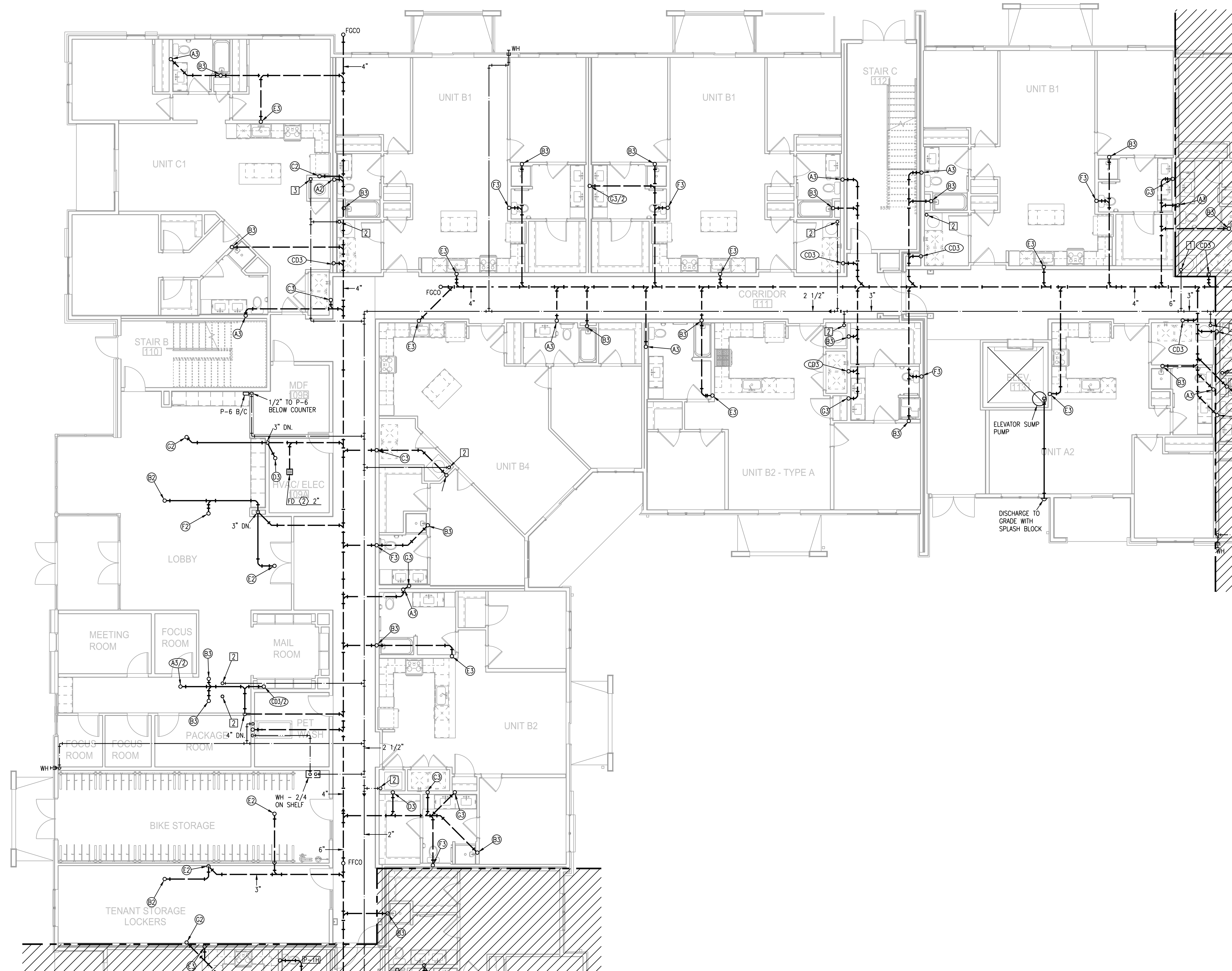
REVISIONS
△ PERMIT REVIEW COMMENTS 08-17-21

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TR,i PROJECT NO. 20-001

SHEET NO.

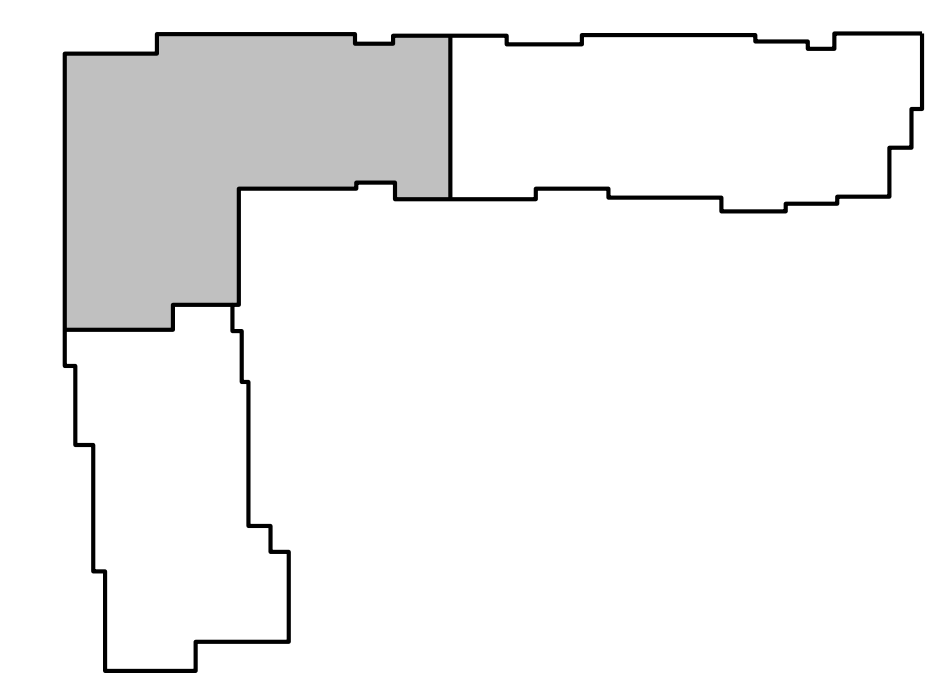
P110
BLDG 2-A, PARTIAL FIRST FLOOR
PLAN - PLUMBING



1 BLDG 2-B, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" PLUMBING



- NOTES:**
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKE.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES WITH QUICK CLOSING VALVES SHALL HAVE BLADDER OR TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.
- LEGEND:**
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE

LS&A
Latimer Sommers & Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsa.com
LSA PROJECT NO. 2104098

ARCHITECT

STRUCTURAL ENGINEER

CIVIL ENGINEER

GENERAL CONTRACTOR

MECHANICAL ENGINEER

PLUMBING ENGINEER

ELECTRICAL ENGINEER

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PLUMBING

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LEE'S SUMMIT, MISSOURI 64081

TR,I ARCHITECTS

TR,I Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63144
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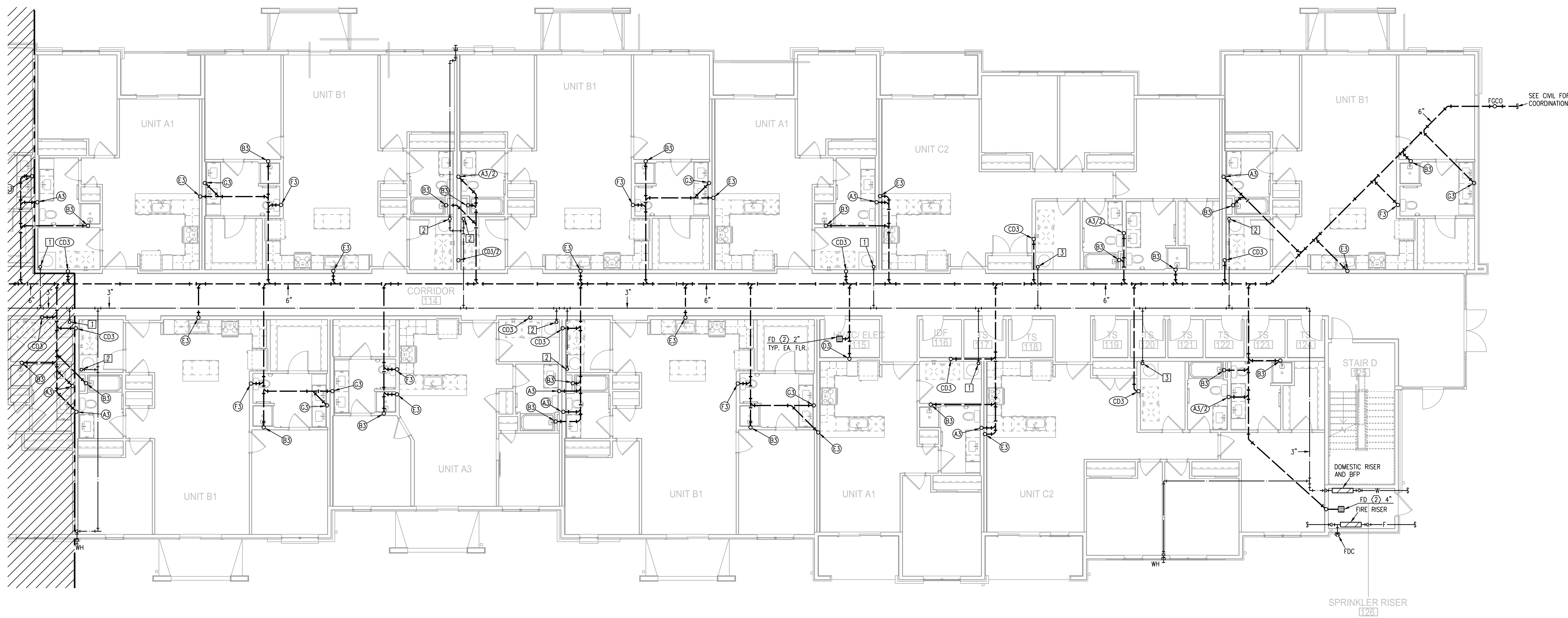
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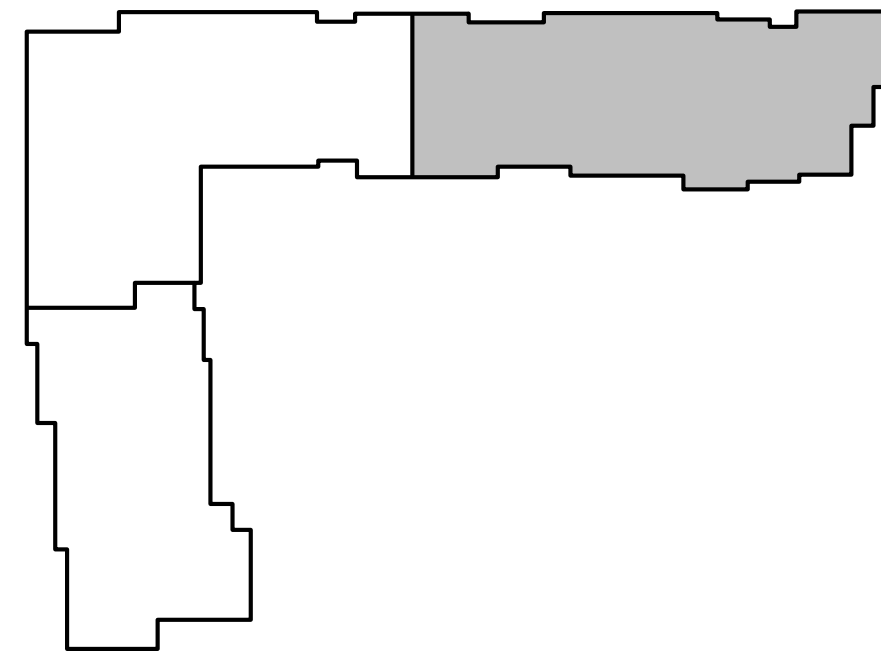
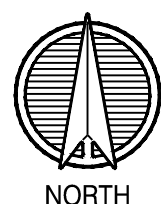
SHEET NO.

P111

BLDG 2-B, PARTIAL FIRST FLOOR PLAN - PLUMBING



1 BLDG 2-C, PARTIAL FIRST FLOOR PLAN
1/8"=1'-0" PLUMBING



KEY PLAN
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LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsa.com
LSA PROJECT NO. 2104008

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 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.

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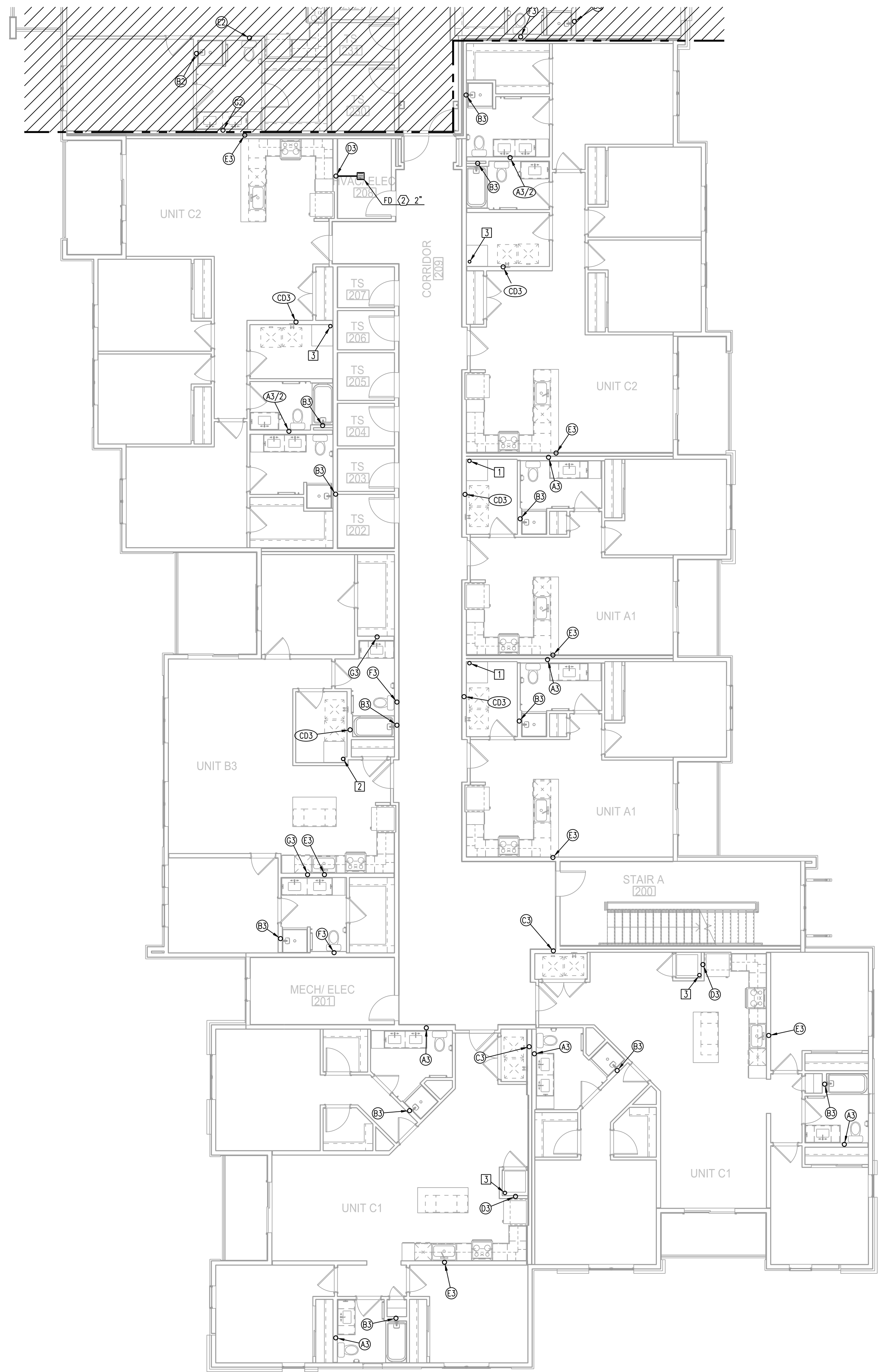
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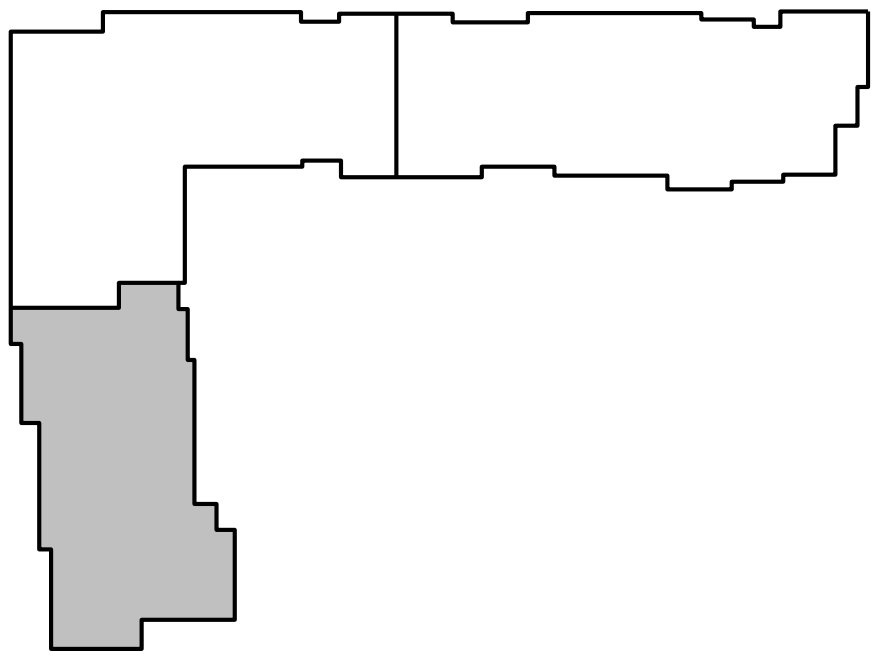
P112
BLDG 2-C, PARTIAL FIRST FLOOR
PLAN - PLUMBING



1 BLDG 2-A, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" PLUMBING

- NOTES:
1. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. ALL BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS. DHW BELOW SLAB TO BE INSULATED TO R-3.
 3. DHW PIPING 3/4" AND LARGER TO BE INSULATED TO R-3 MINIMUM
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE.
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 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE

LS&A
Lattimer Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
Fax: (785) 233-0647
Email: lesp@lsaa.com
LSA PROJECT NO. 210408

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ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
GENERAL CONTRACTOR
MECHANICAL ENGINEER
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LEE'S SUMMIT, MISSOURI 64081

TR,I
ARCHITECTS

TR,I Architects
1750 S. Brentwood Blvd.
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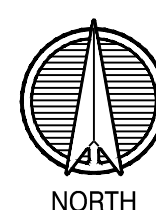
TR,I PROJECT NO. 20-001

SHEET NO.

P113
BLDG 2-A, PARTIAL SECOND
FLOOR PLAN - PLUMBING

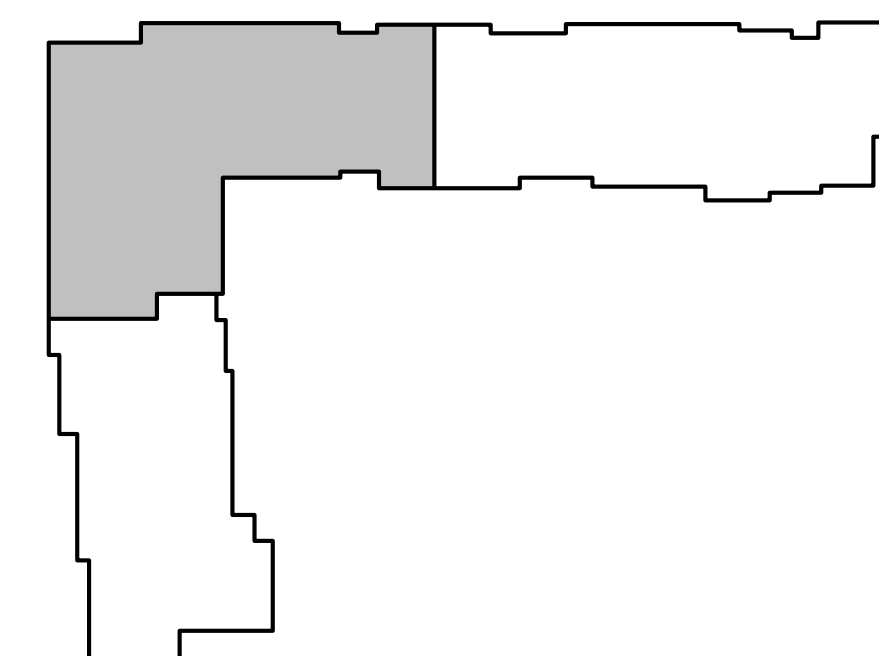


1 BLDG 2-B, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" PLUMBING

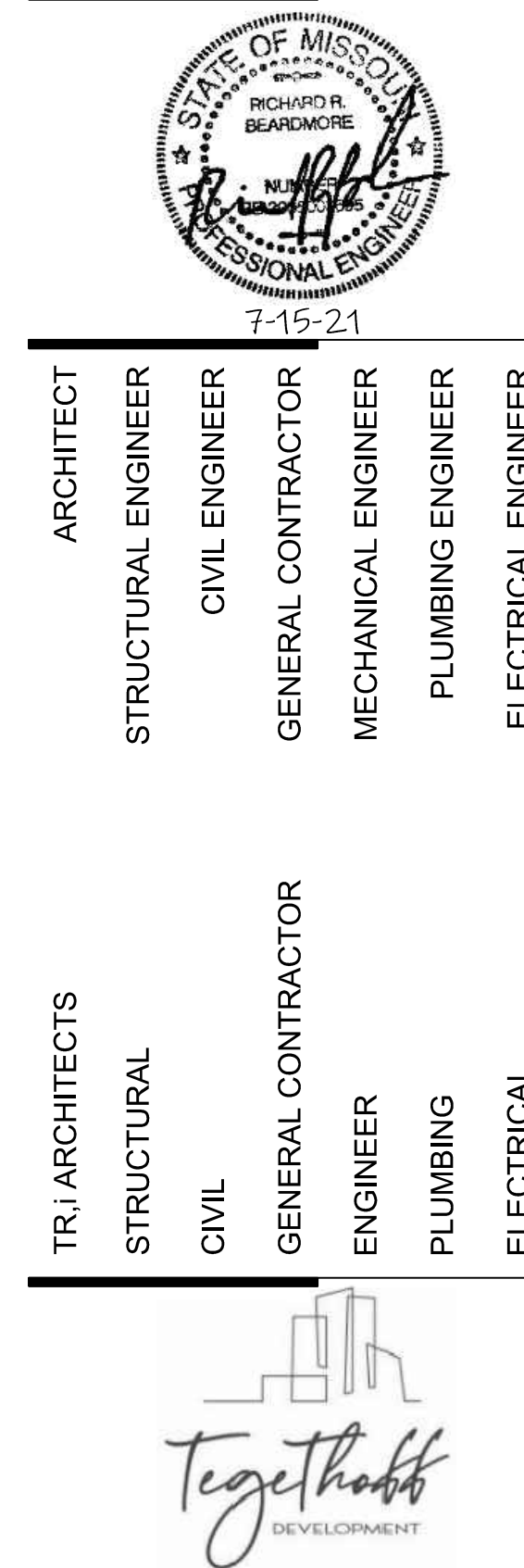
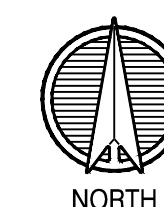


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 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
- ① 3"V. UP TO RISER FOR FUTURE CONNECTION.
 - ② 6" UP TO DOWNSPOUT CONNECTION.
 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE



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2100 AND 2150 NW LOWENSTEIN DR.
LEE'S SUMMIT, MISSOURI 64081



TRI, Architects
1750 S. Brentwood Blvd.
St. Louis, Missouri 63114
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P114

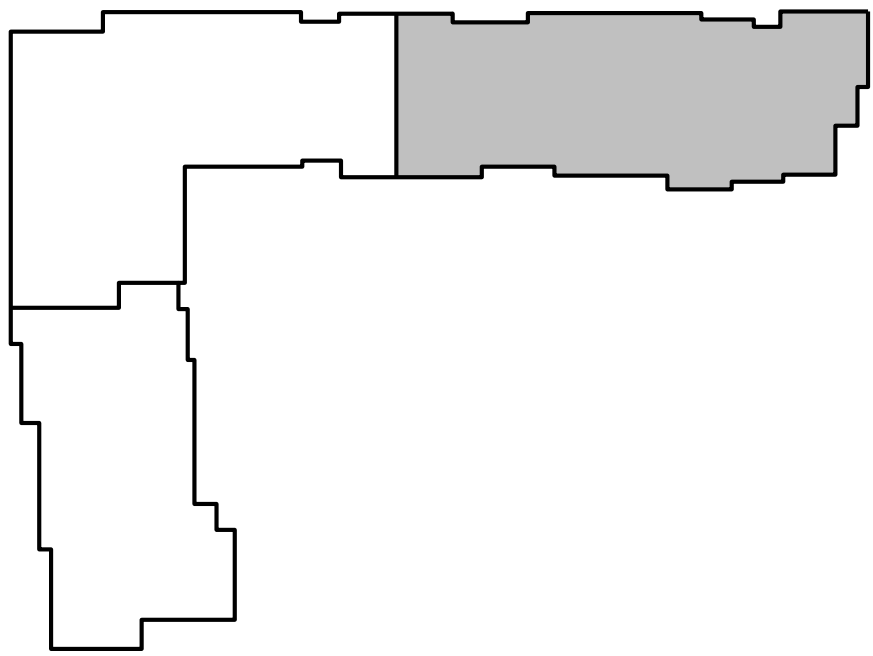
BLDG 2-B, PARTIAL SECOND
FLOOR PLAN - PLUMBING



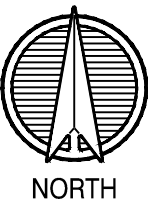
1 BLDG 2-C, PARTIAL SECOND FLOOR PLAN
1/8"=1'-0" PLUMBING

- NOTES:
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 13. ALL WASTE AND ROOF DRAIN STACKS SHALL HAVE CLEANOUTS AT THE BASE.

- LEGEND:
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 - ③ DOWNSPOUT CONNECTION. 6" DOWN TO GARAGE.
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 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE



LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lesp@lsaia.com
LSA PROJECT NO. 2104098

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
7-15-21

ARCHITECT
STRUCTURAL ENGINEER
CIVIL ENGINEER
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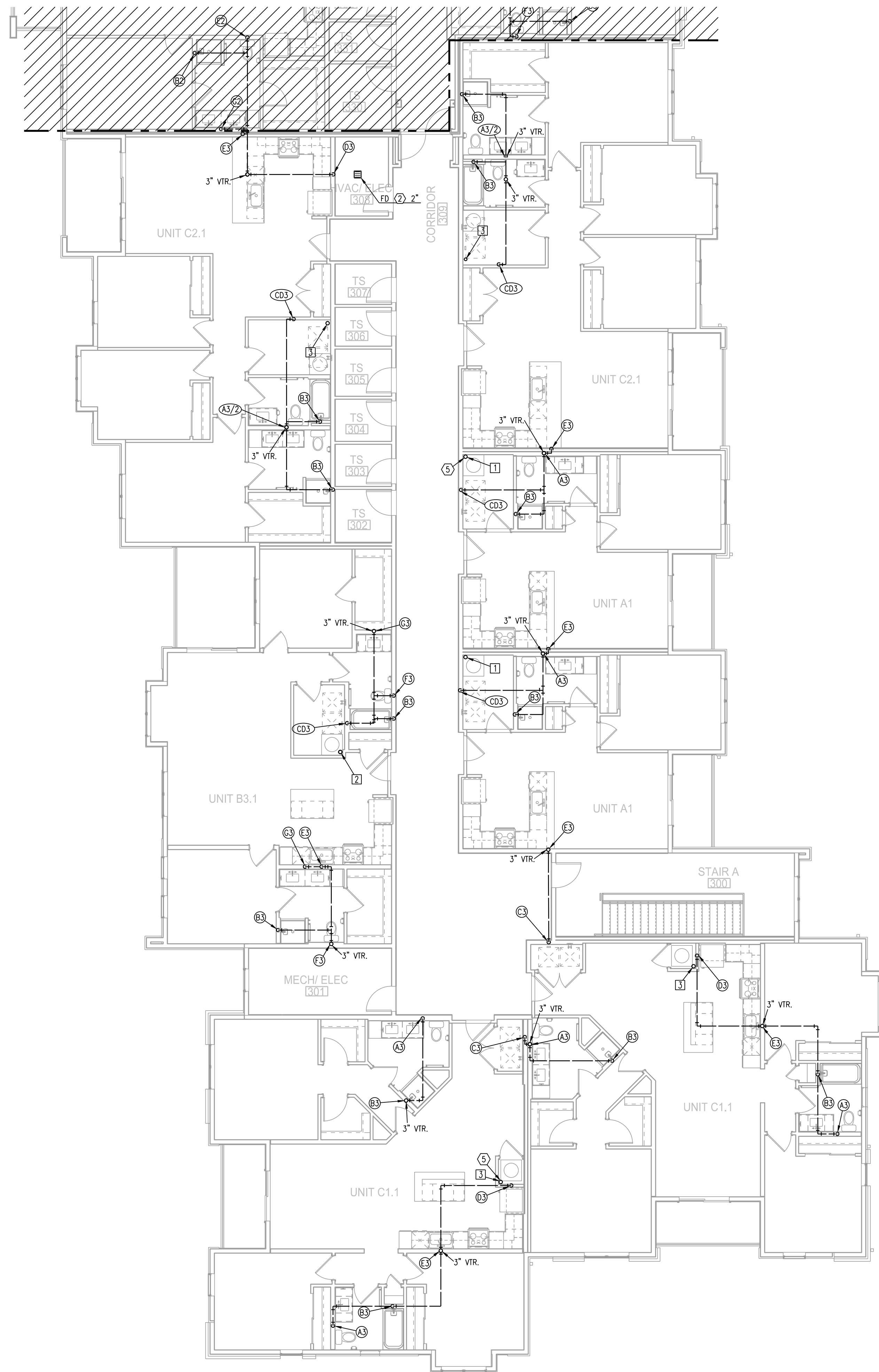
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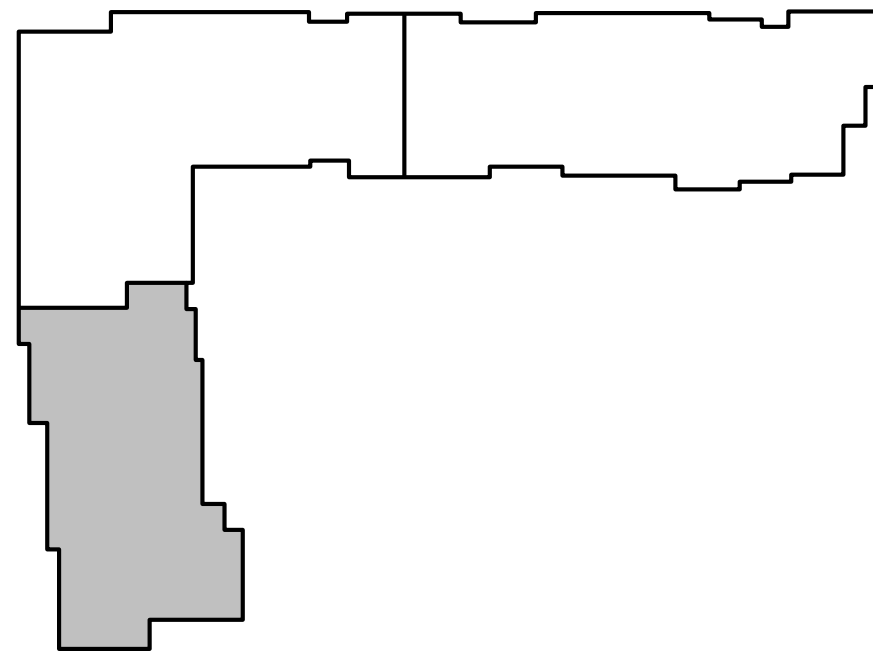
P115
BLDG 2-C, PARTIAL SECOND
FLOOR PLAN - PLUMBING



1 BLDG 2-A, PARTIAL THIRD FLOOR PLAN
1/8" = 1'-0" PLUMBING

- NOTES:
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- LEGEND:
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 - ④ PENETRATE BEAM PER STRUCTURAL DETAIL.
 - ⑤ 3/4" UP TO ROOF HYDRANT. SEE DETAIL.



KEY PLAN
NO SCALE



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7-15-21

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MECHANICAL ENGINEER
PLUMBING ENGINEER
ELECTRICAL ENGINEER

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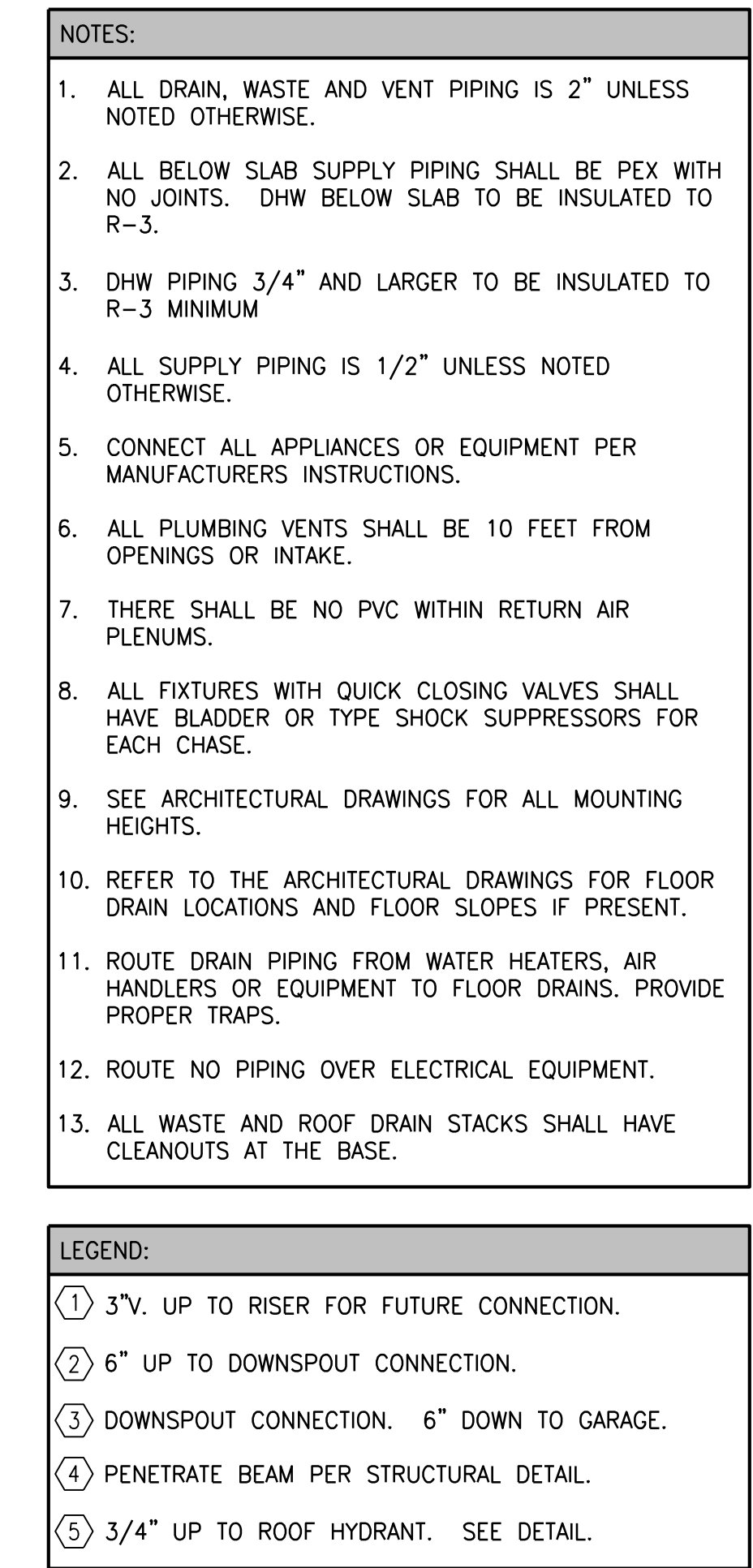
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TR,I PROJECT NO. 20-001

SHEET NO.

P116
BLDG 2-A, PARTIAL THIRD FLOOR
PLAN - PLUMBING

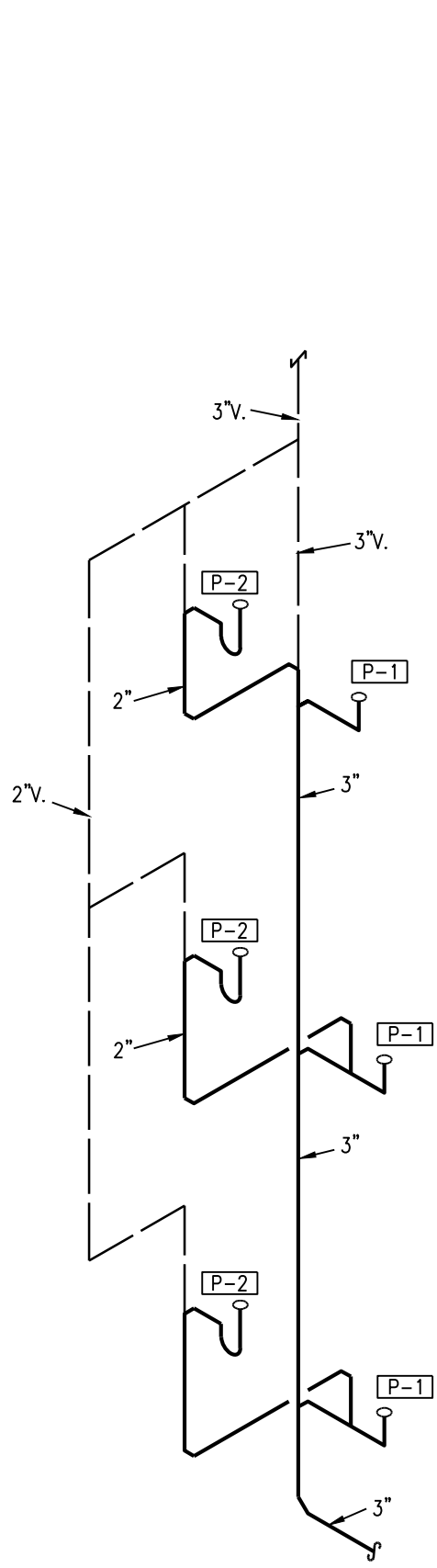


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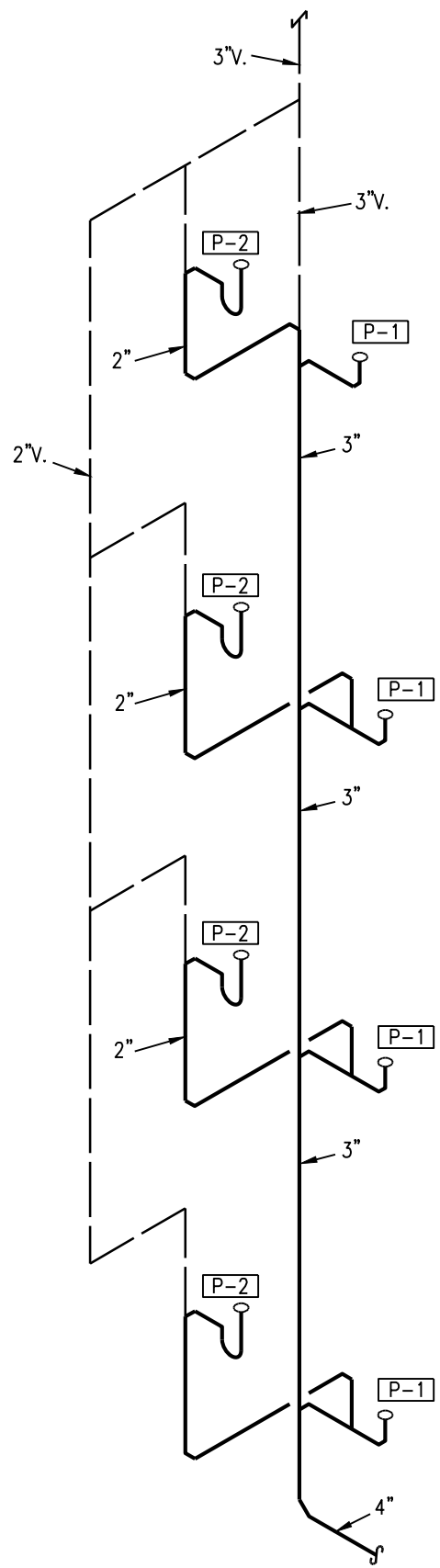


BLDG 2-B, PARTIAL THIRD FLOOR

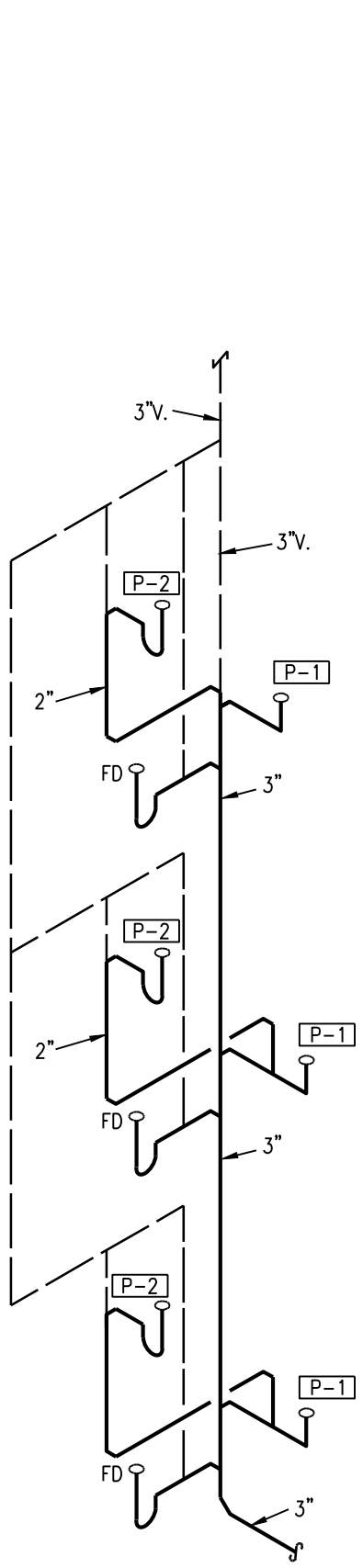
NOTES:
1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS.



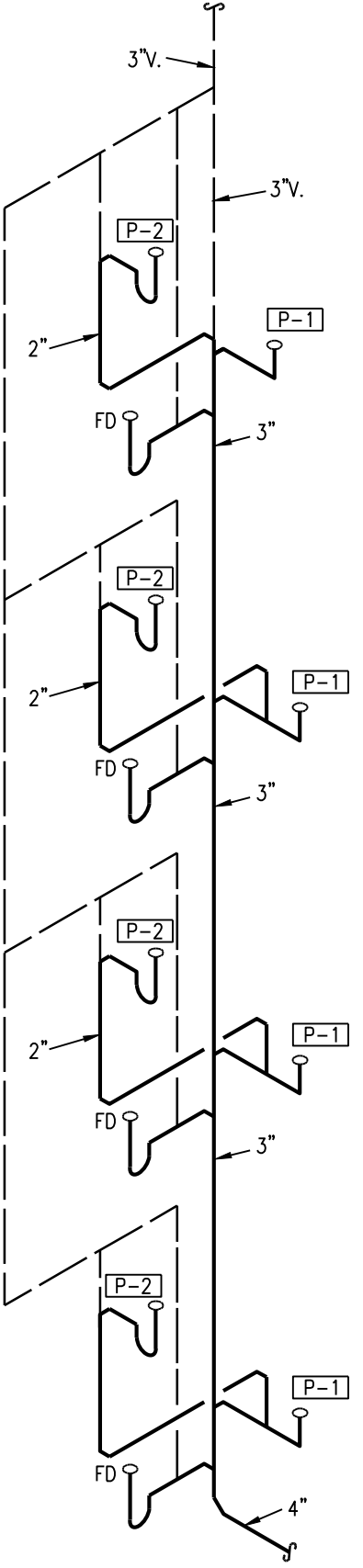
A3 PLUMBING RISER
NO SCALE



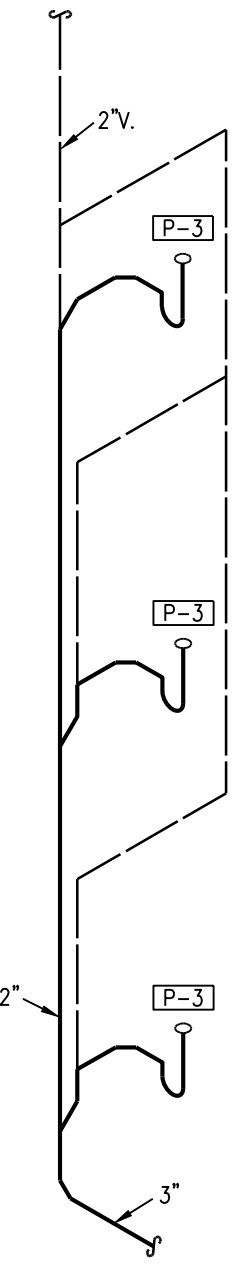
A4 PLUMBING RISER
NO SCALE



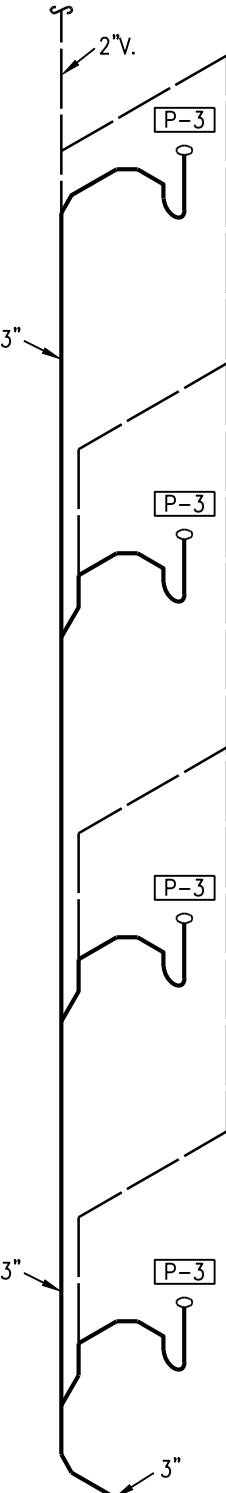
AD3 PLUMBING RISER
NO SCALE



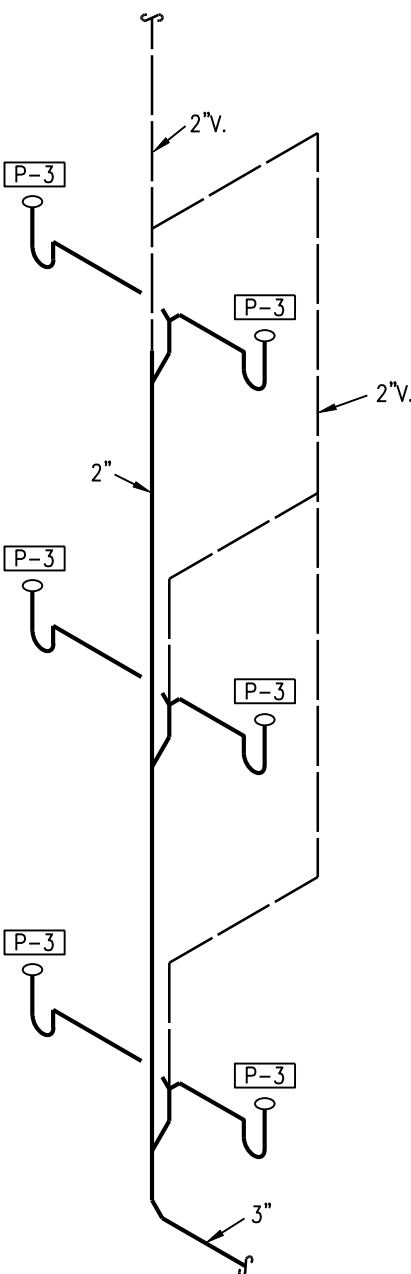
AD4 PLUMBING RISER
NO SCALE



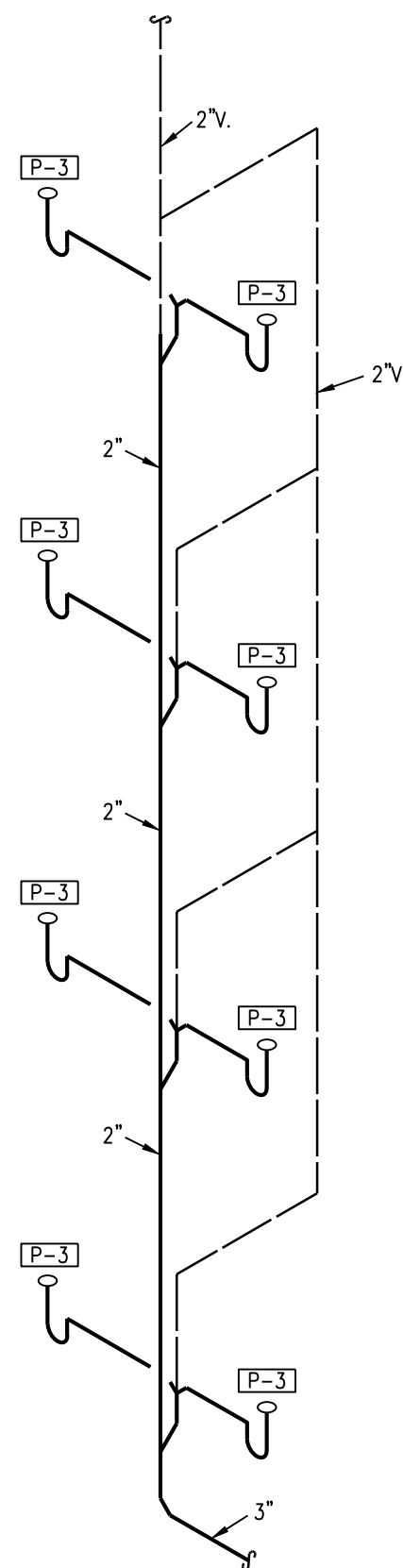
B3 PLUMBING RISER
NO SCALE



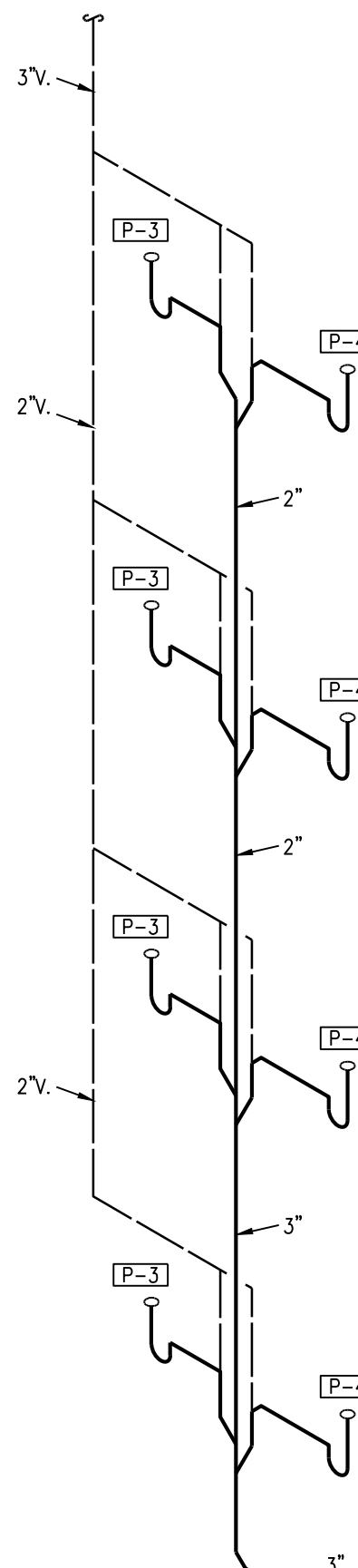
B4 PLUMBING RISER
NO SCALE



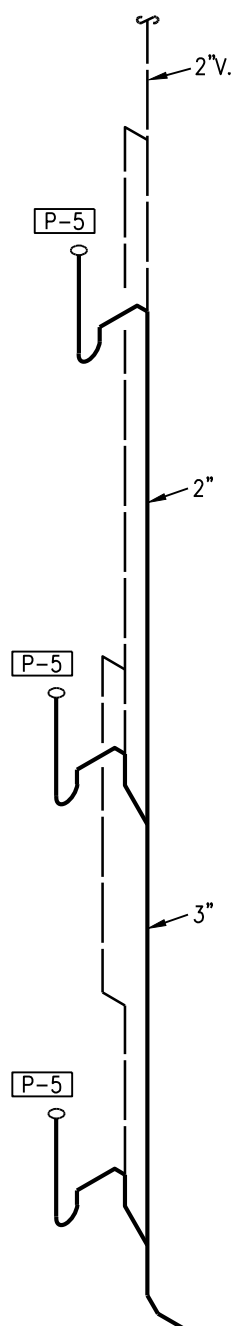
B3/2 PLUMBING RISER
NO SCALE



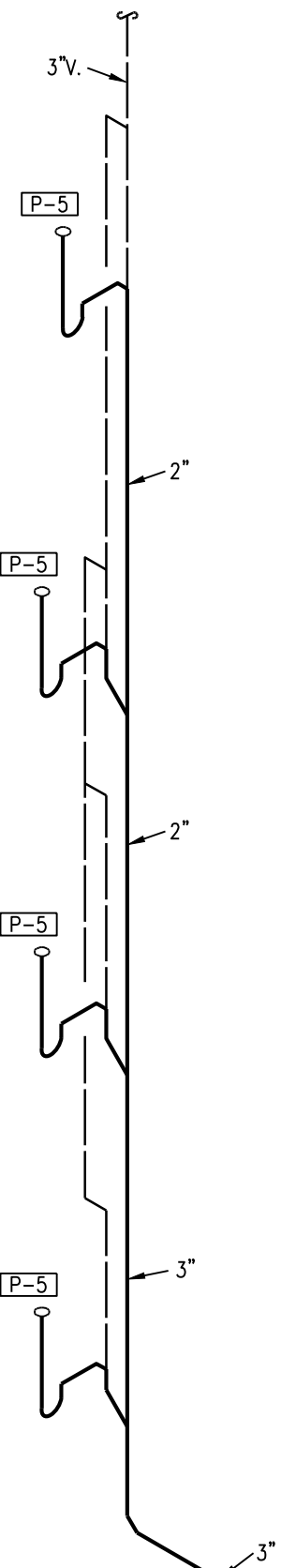
B4/2 PLUMBING RISER
NO SCALE



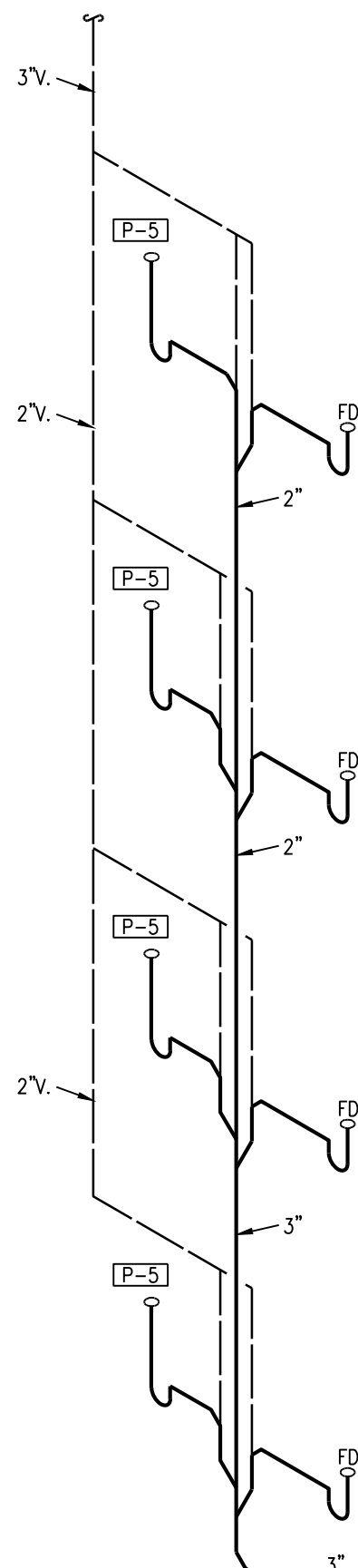
BE4 PLUMBING RISER
NO SCALE



C3 PLUMBING RISER
NO SCALE



C4 PLUMBING RISER
NO SCALE



CD4 PLUMBING RISER
NO SCALE

LS&A
Luttrell, Schmitt
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 2104008

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P119
PLUMBING RISERS

NOTES:
1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS.



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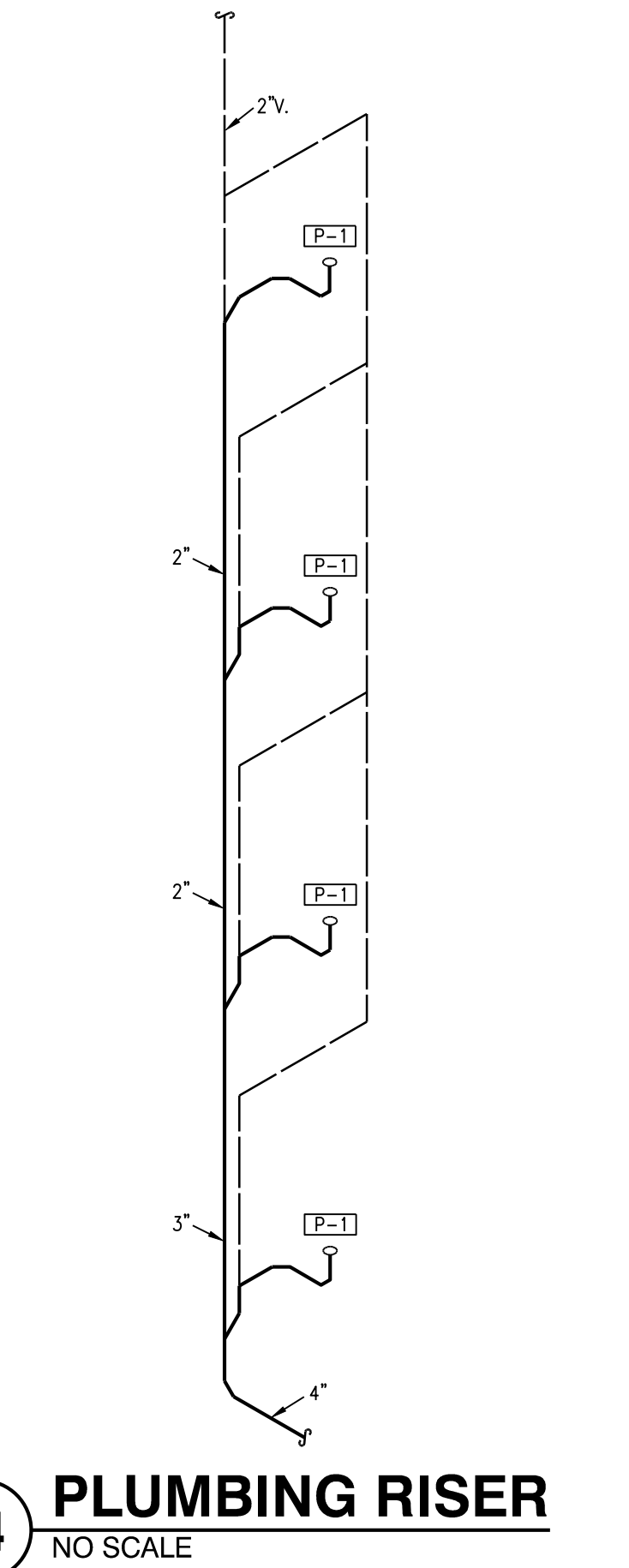
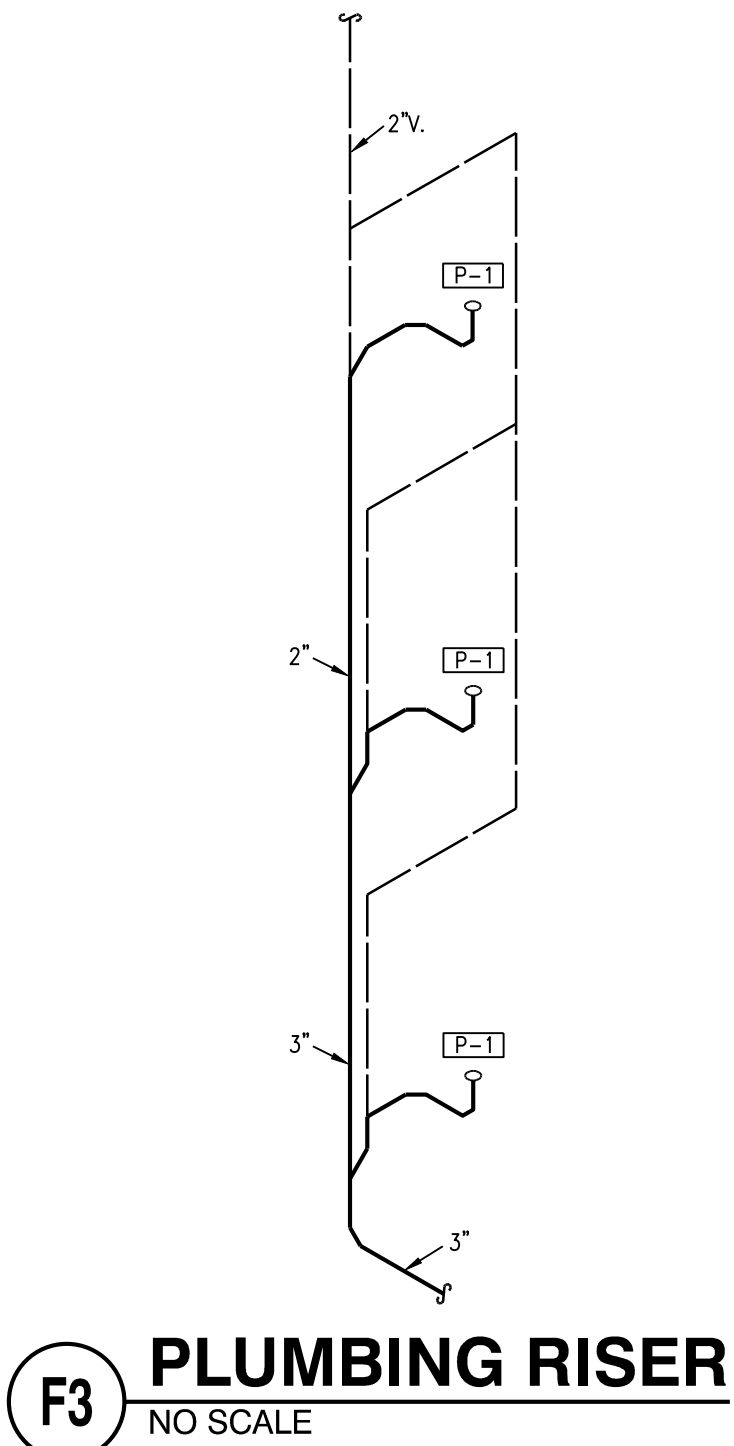
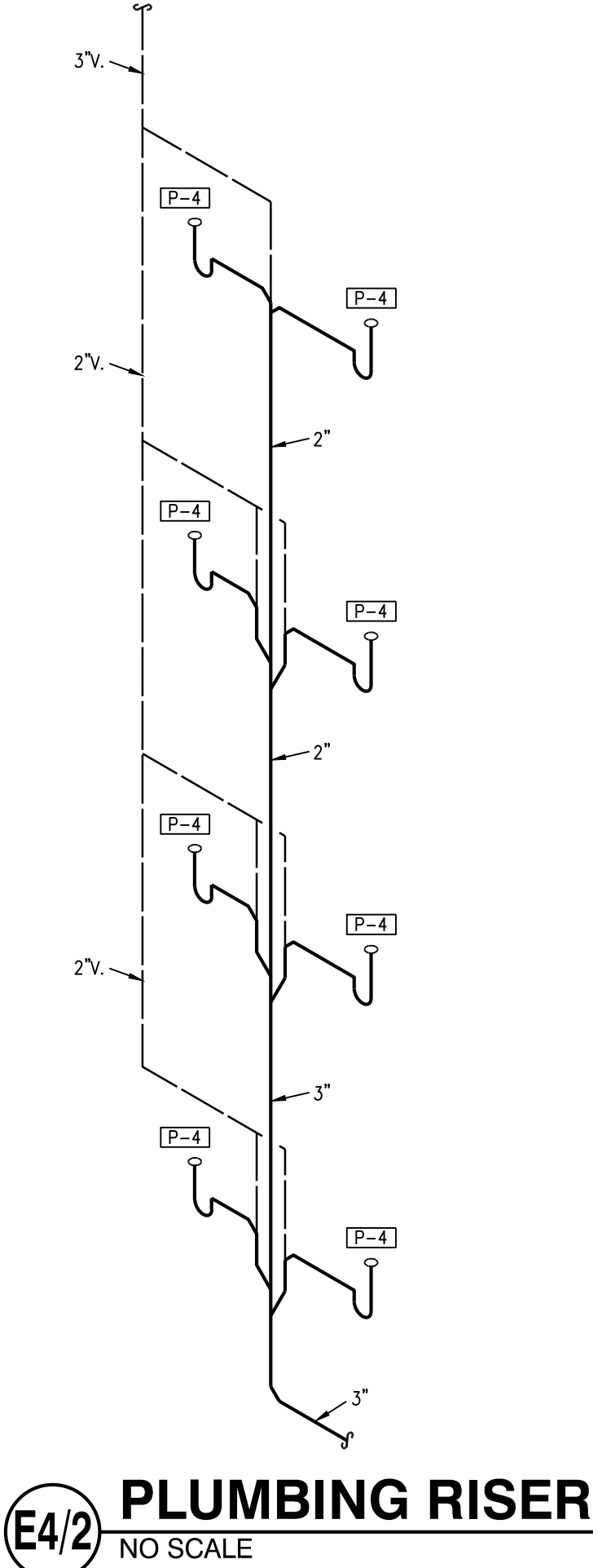
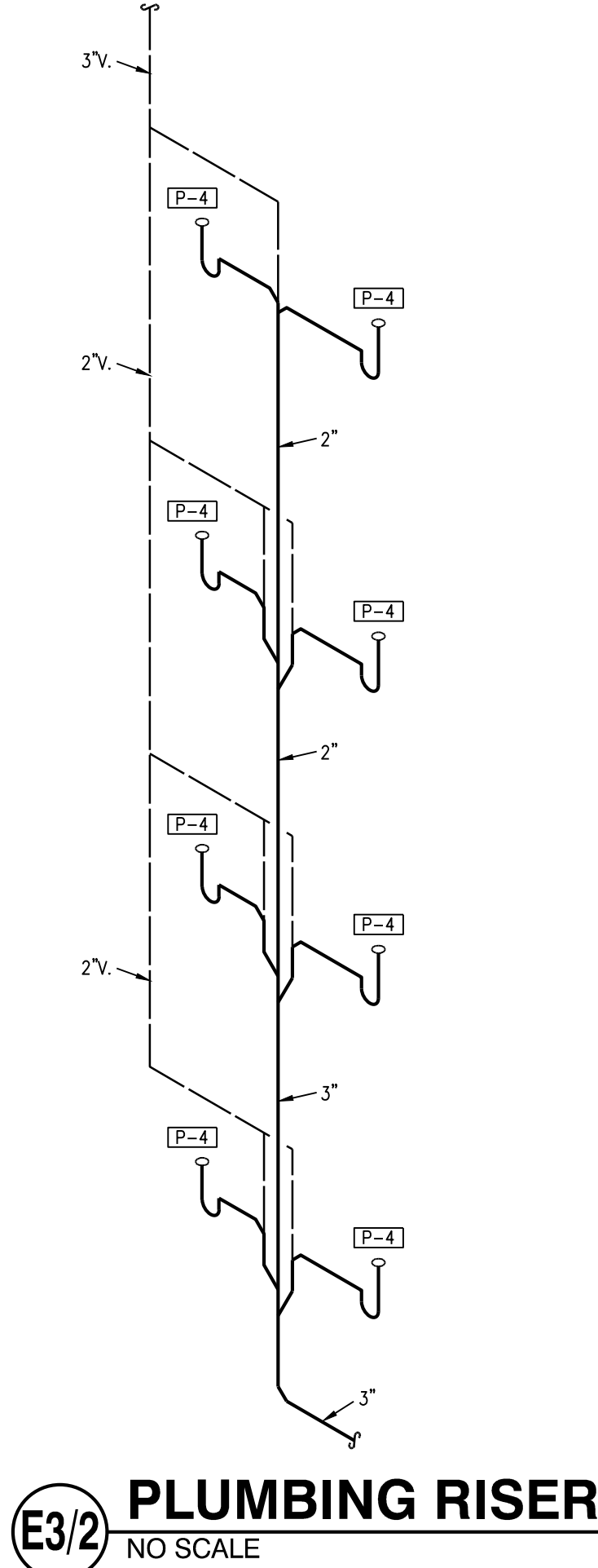
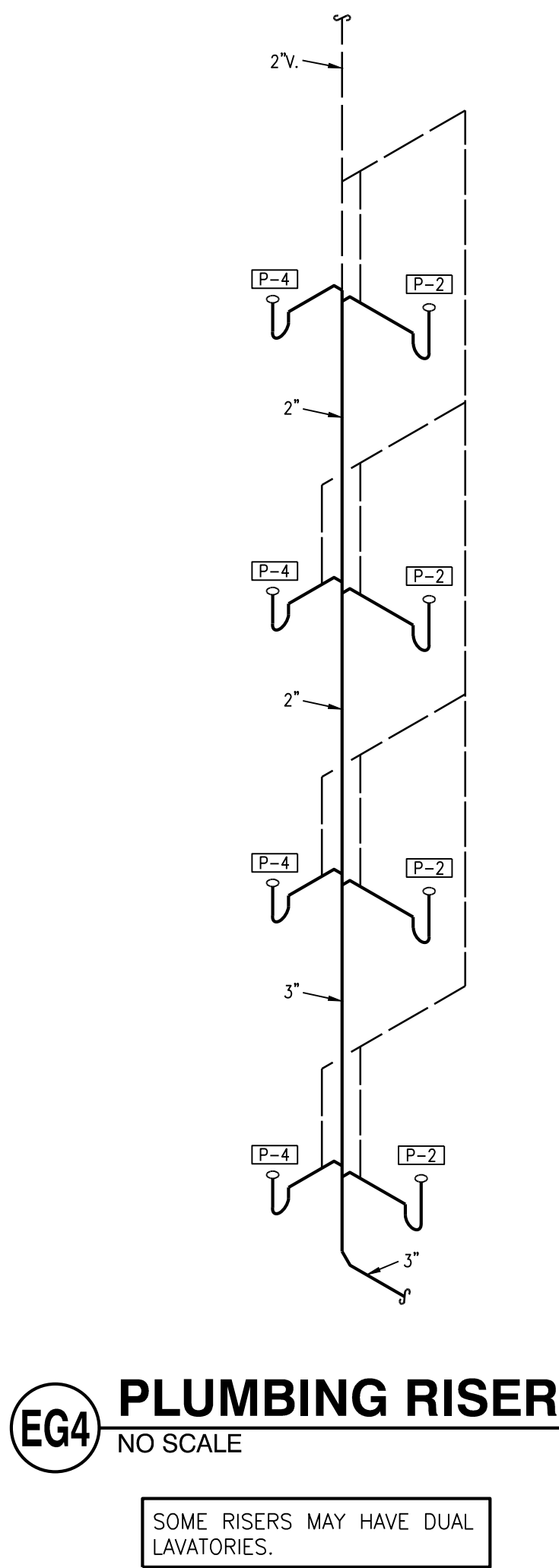
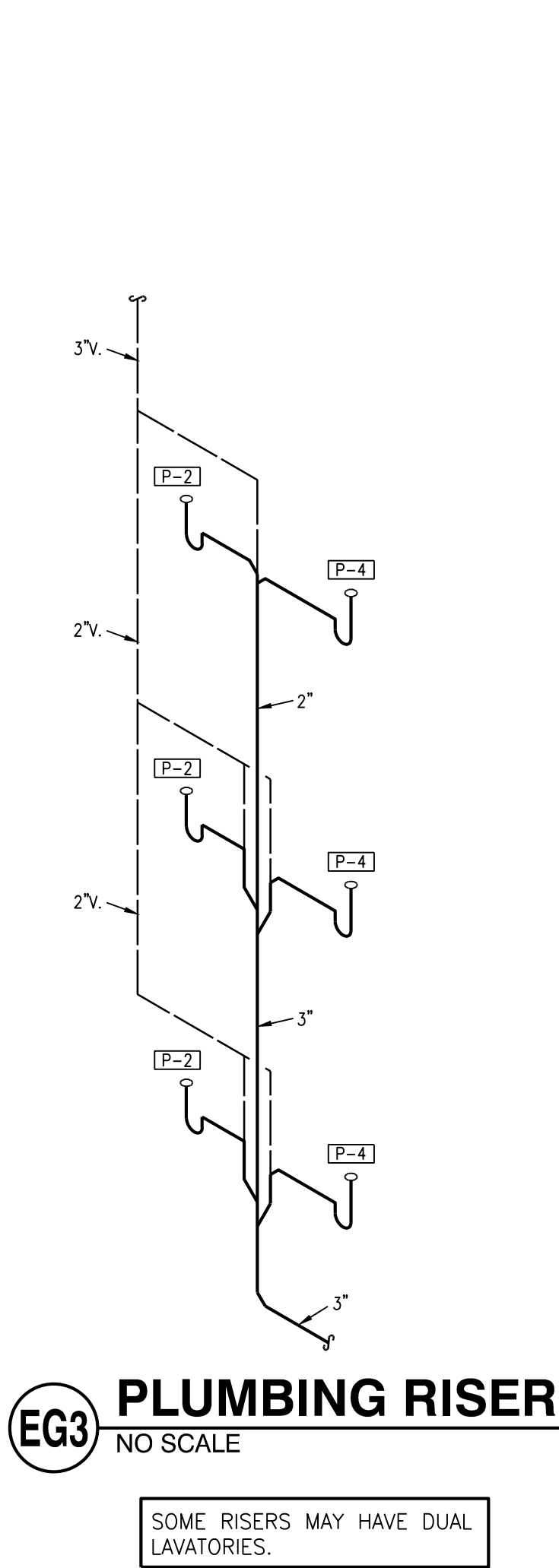
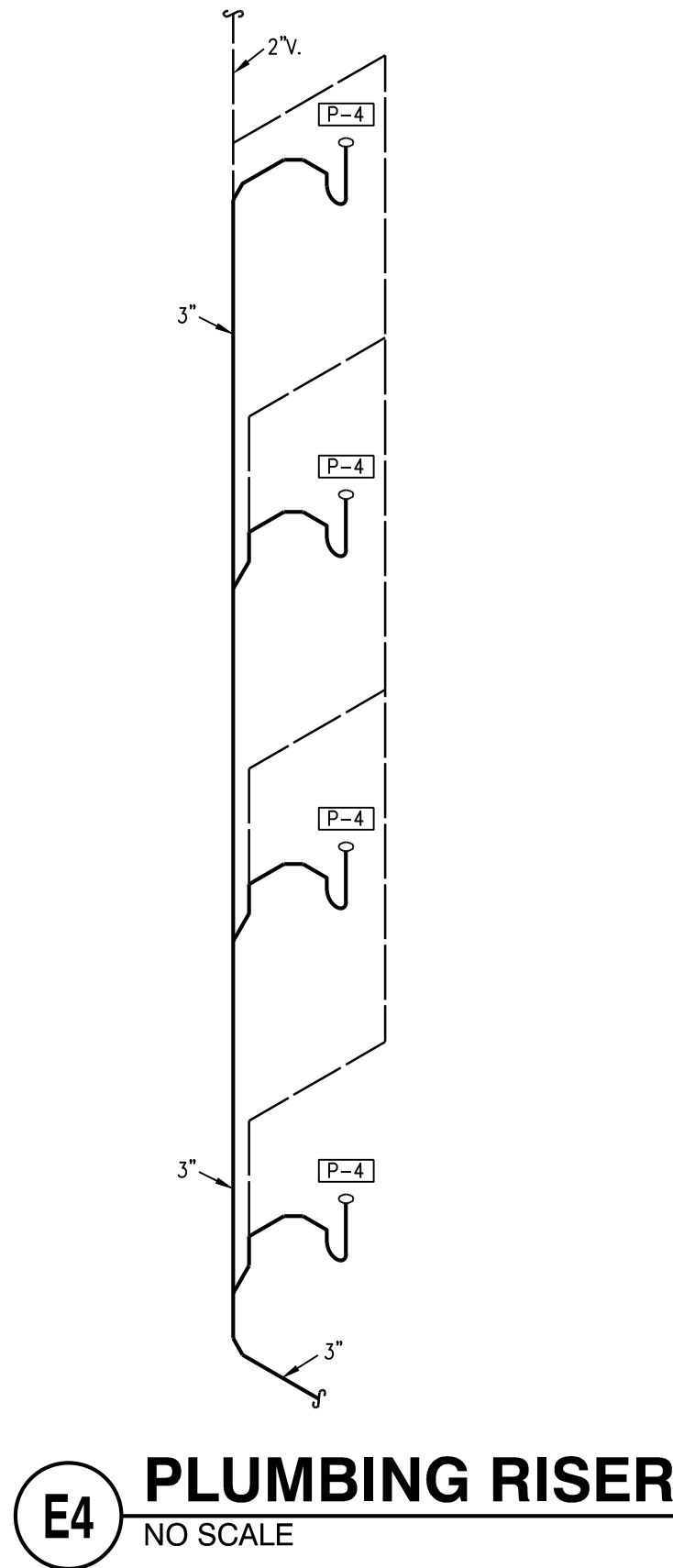
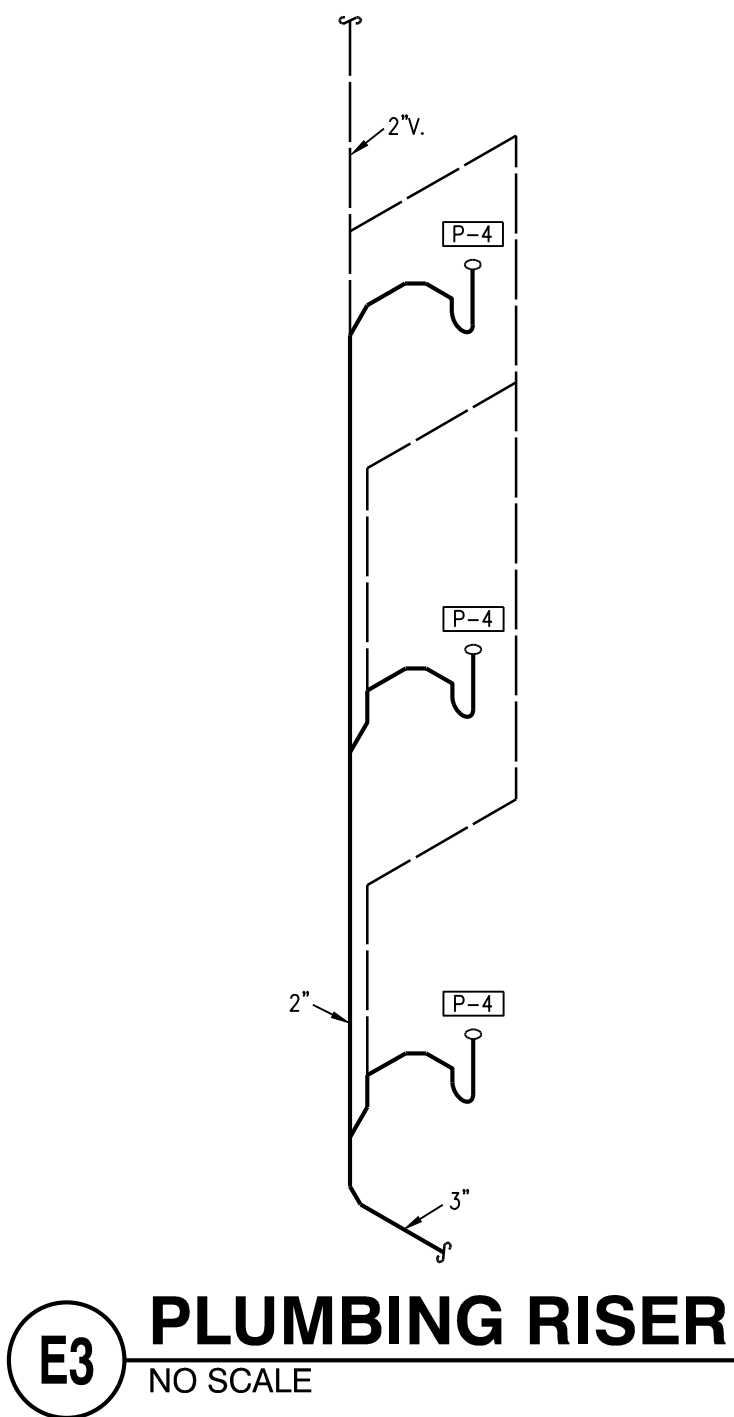
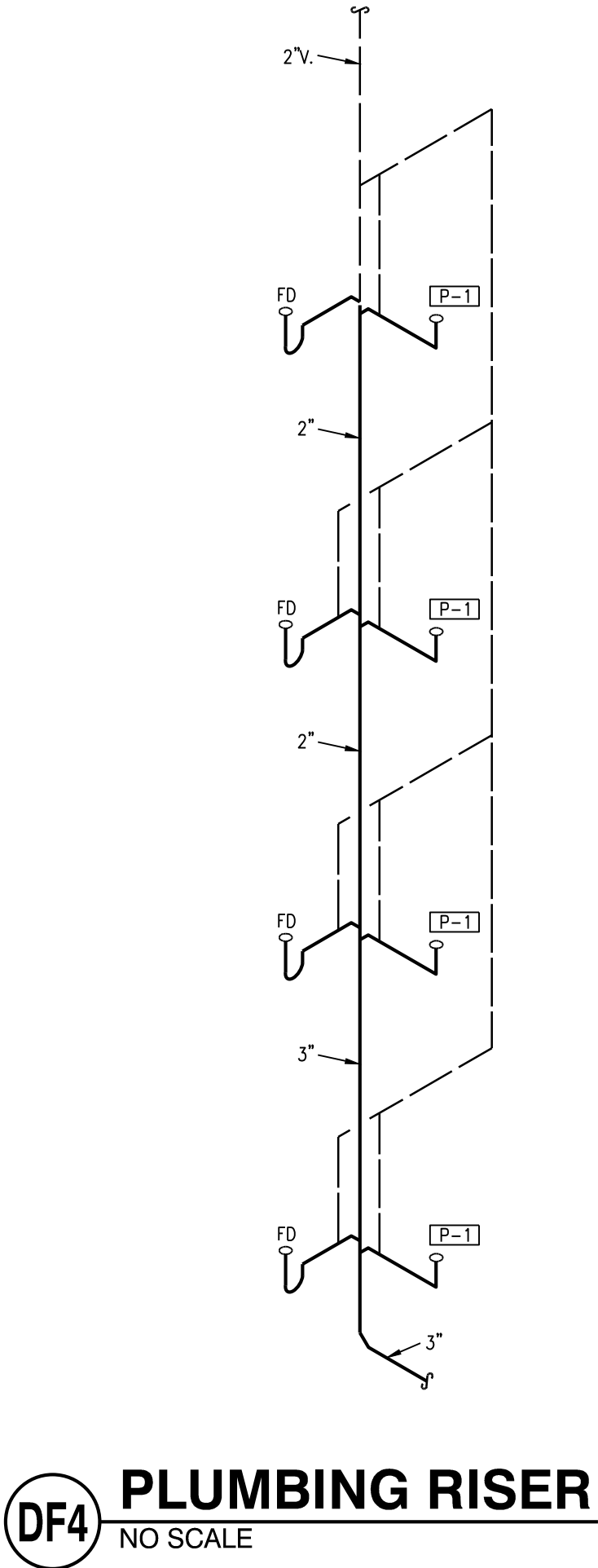
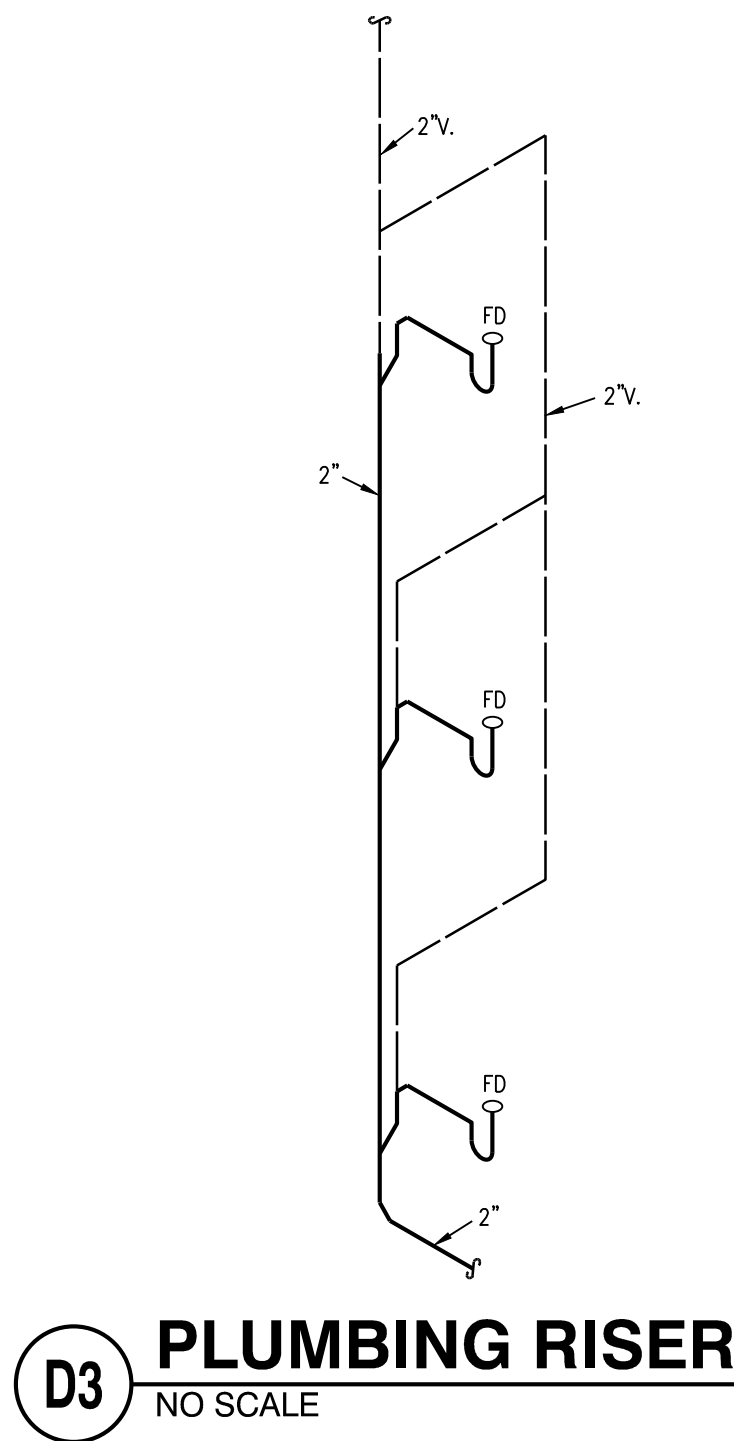
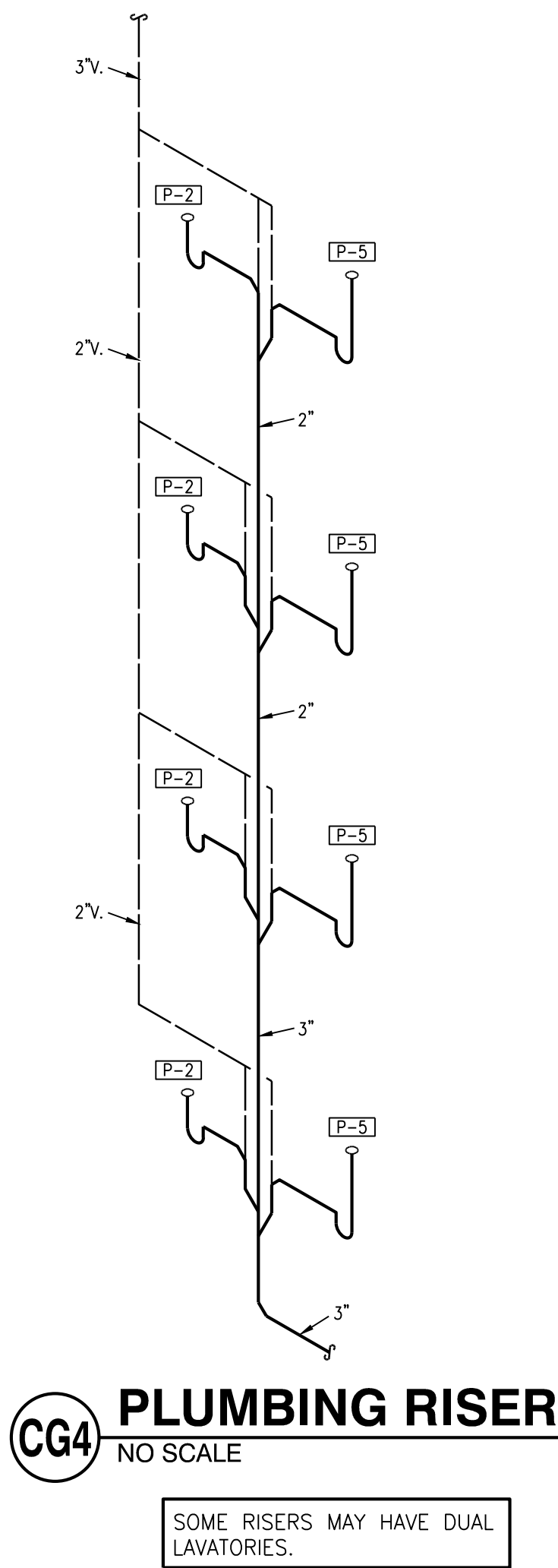
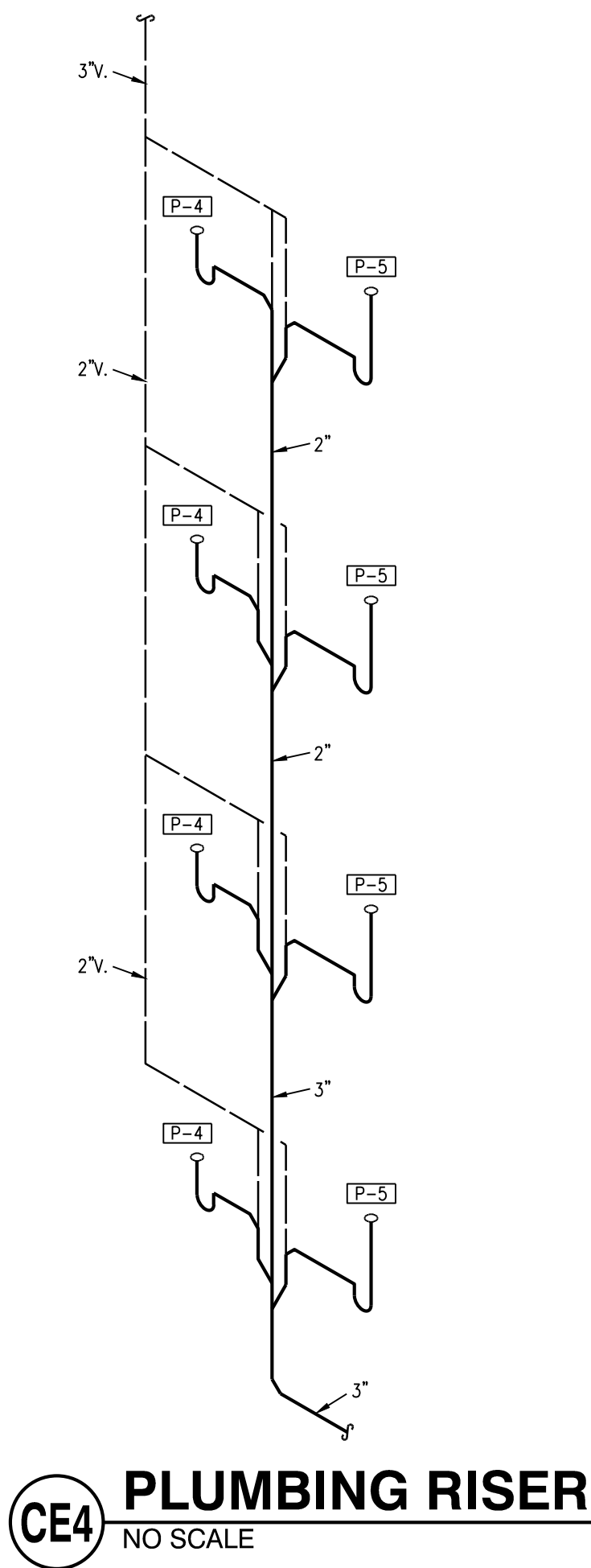
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P120
PLUMBING RISERS





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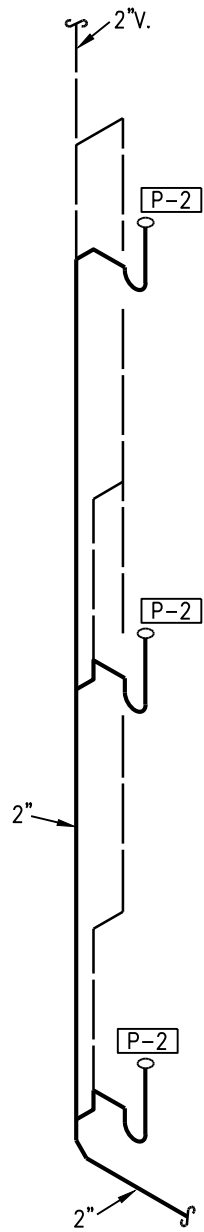
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SHEET NO.

P121

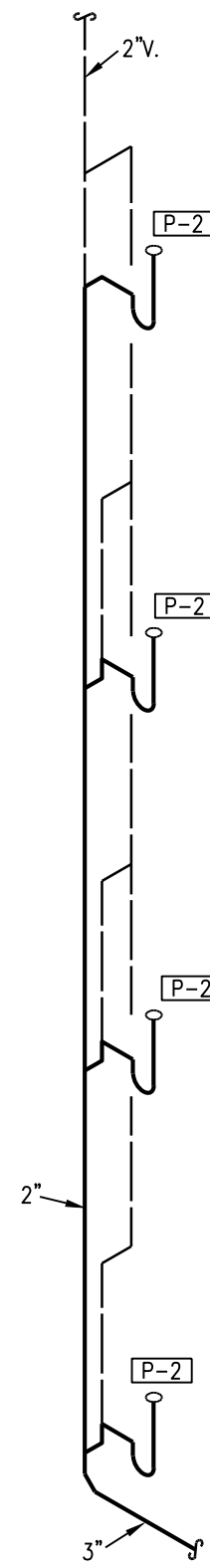
PLUMBING RISERS

NOTES:
1. PROVIDE CLEANOUTS AT BASE OF ALL STACKS.



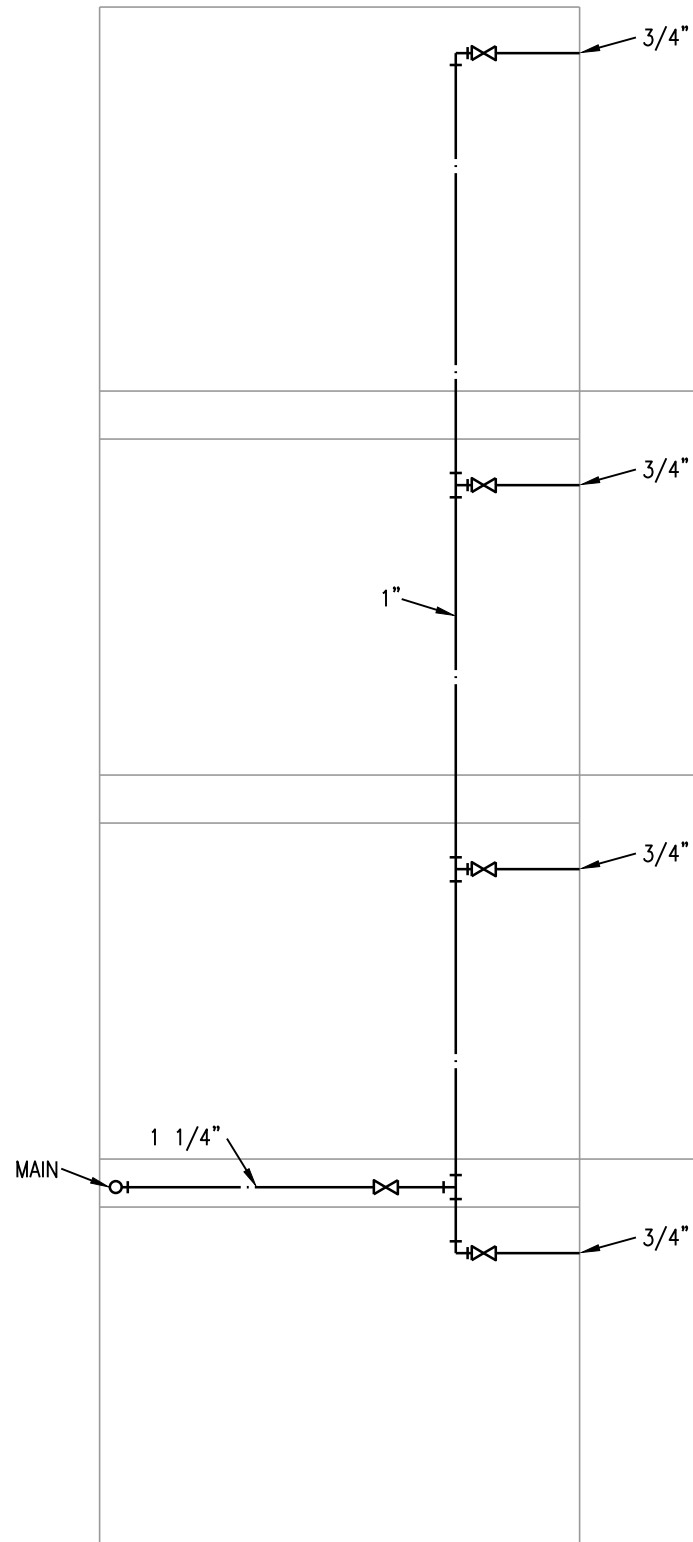
G3 PLUMBING RISER
NO SCALE

SOME RISERS MAY HAVE DUAL LAVATORIES.

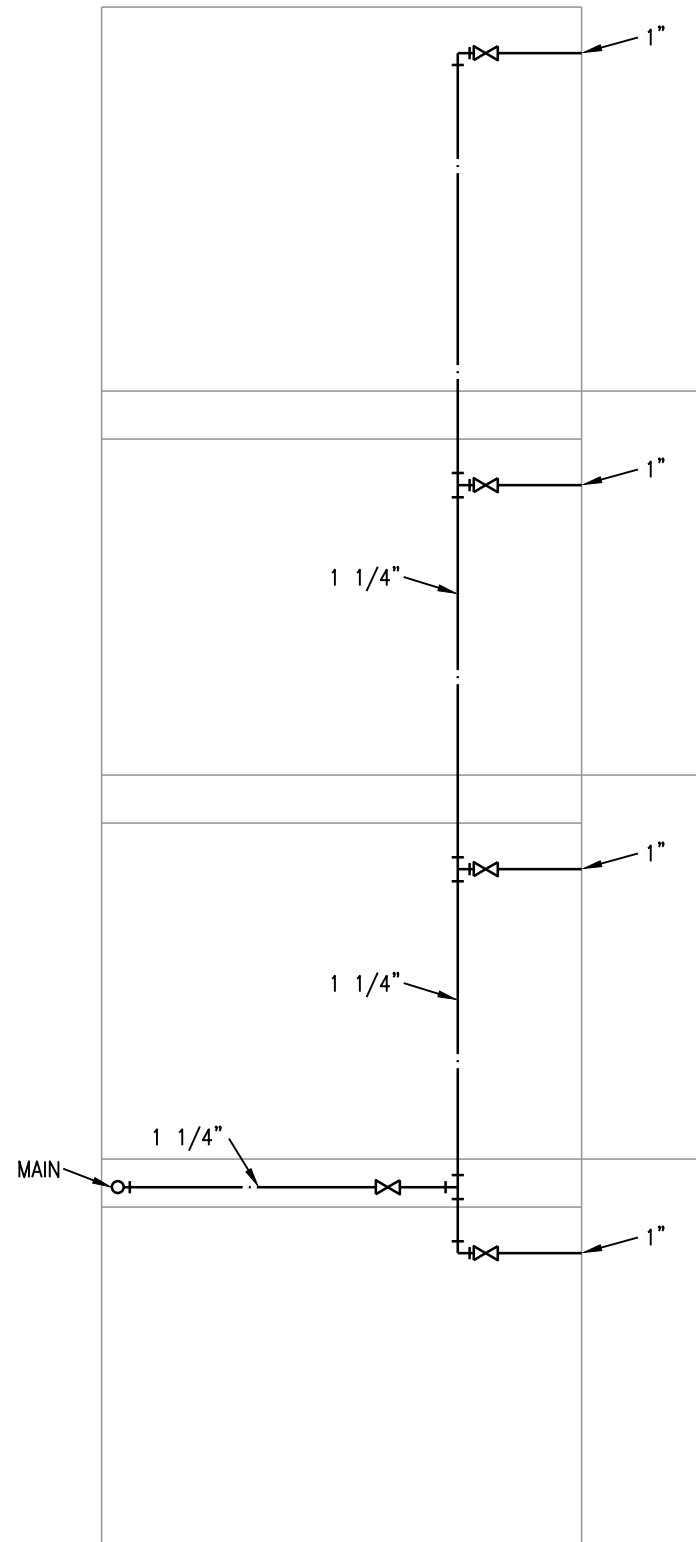


G4 PLUMBING RISER
NO SCALE

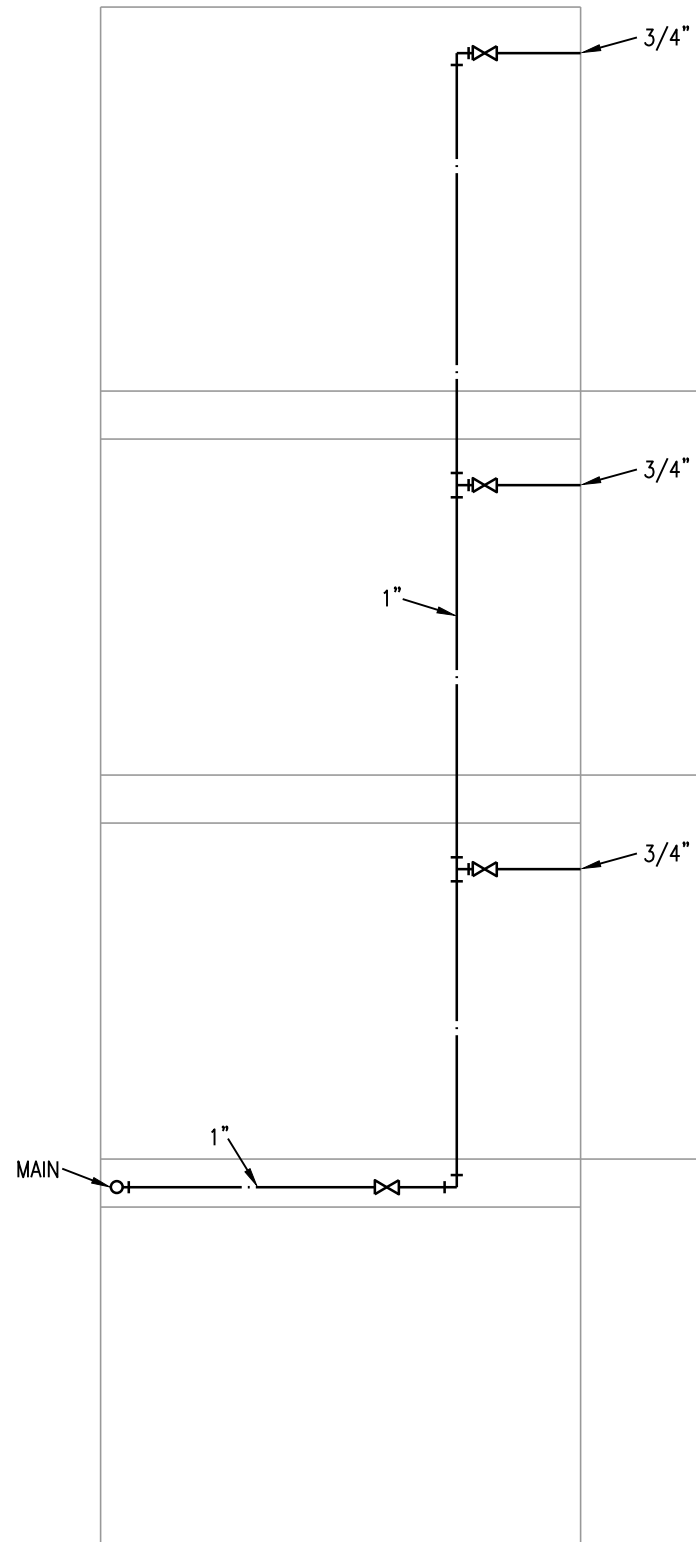
SOME RISERS MAY HAVE DUAL LAVATORIES.



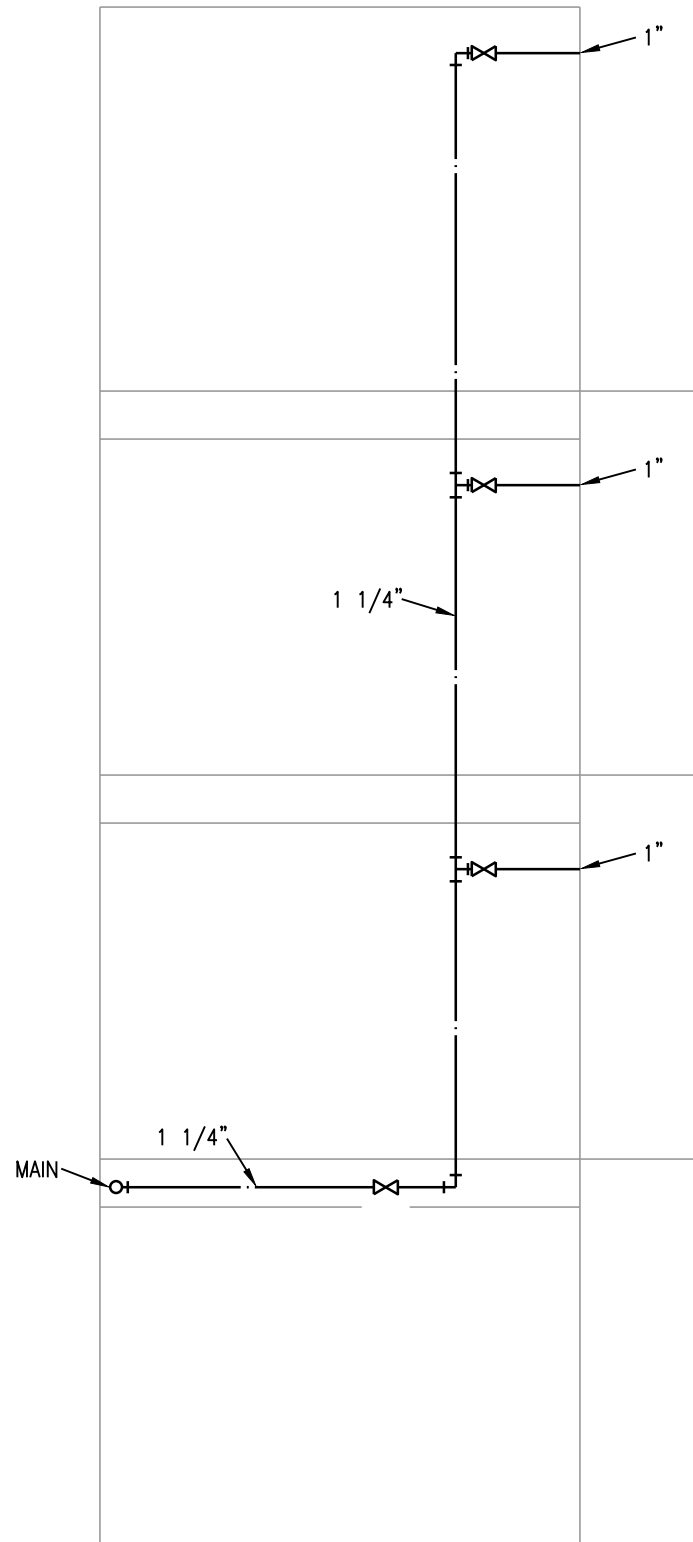
1 SUPPLY RISER
NO SCALE (ONE BATH)



2 SUPPLY RISER
NO SCALE (TWO BATH)

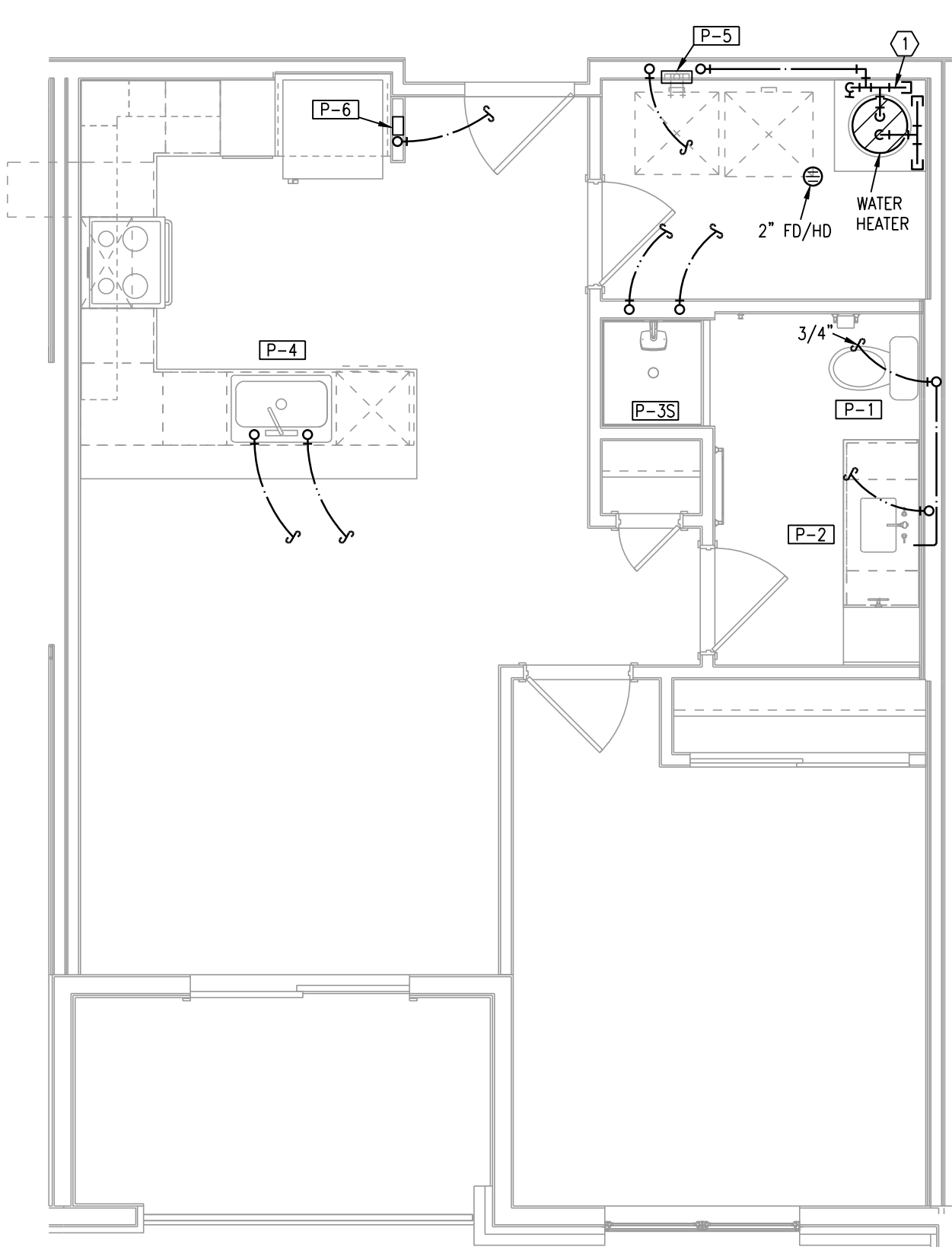


3 SUPPLY RISER
NO SCALE (ONE BATH)

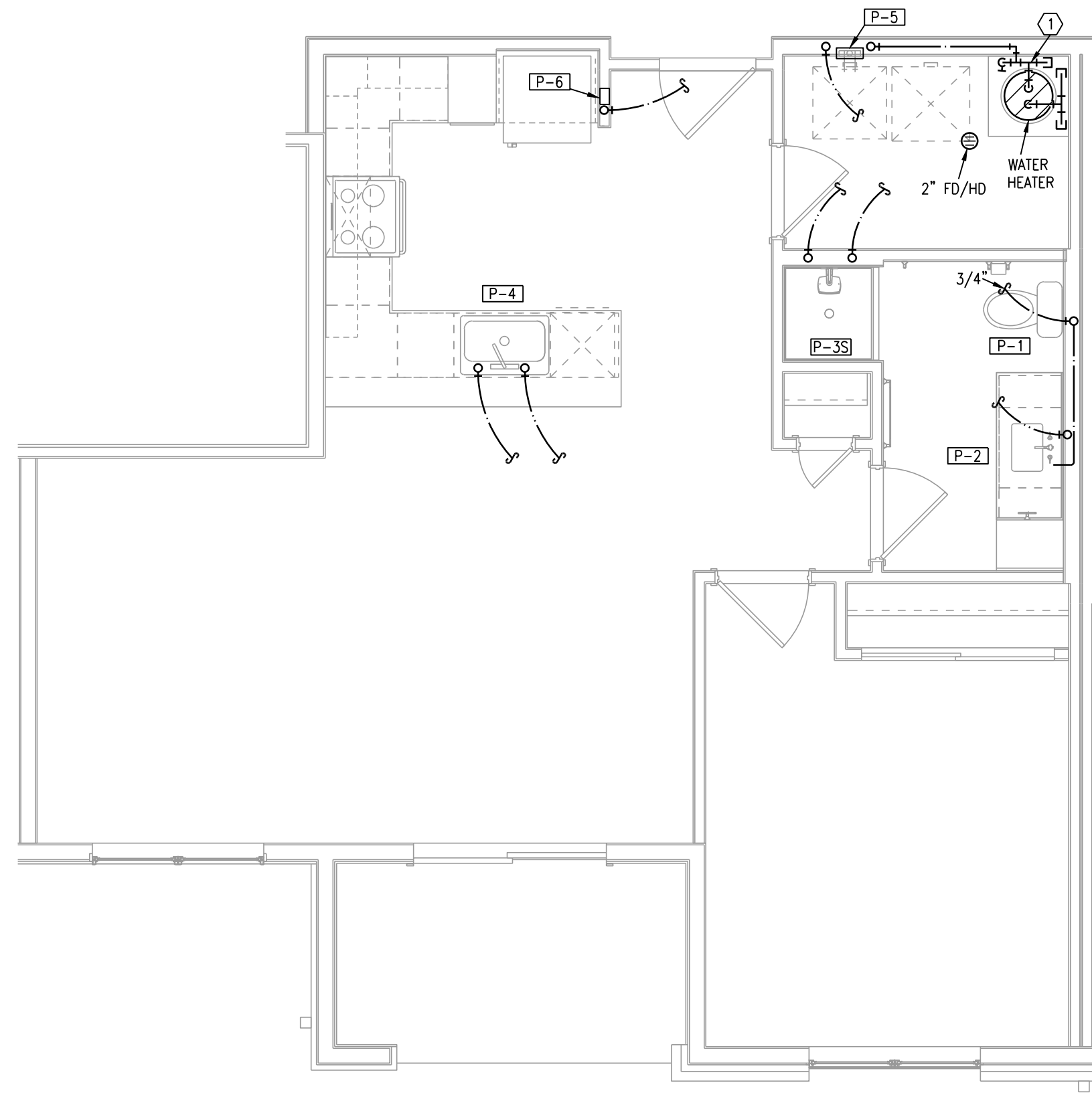


4 SUPPLY RISER
NO SCALE (TWO BATH)

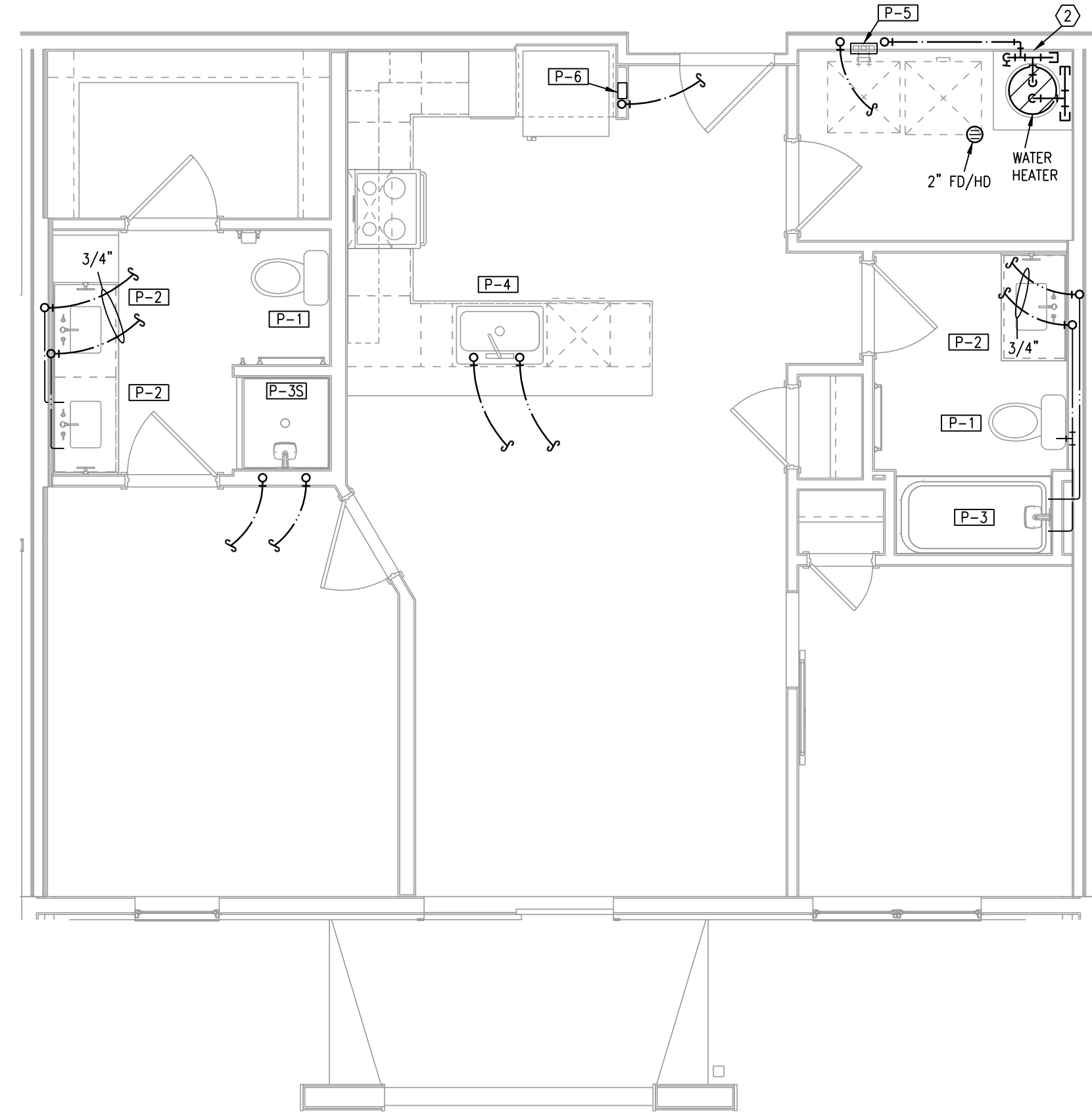




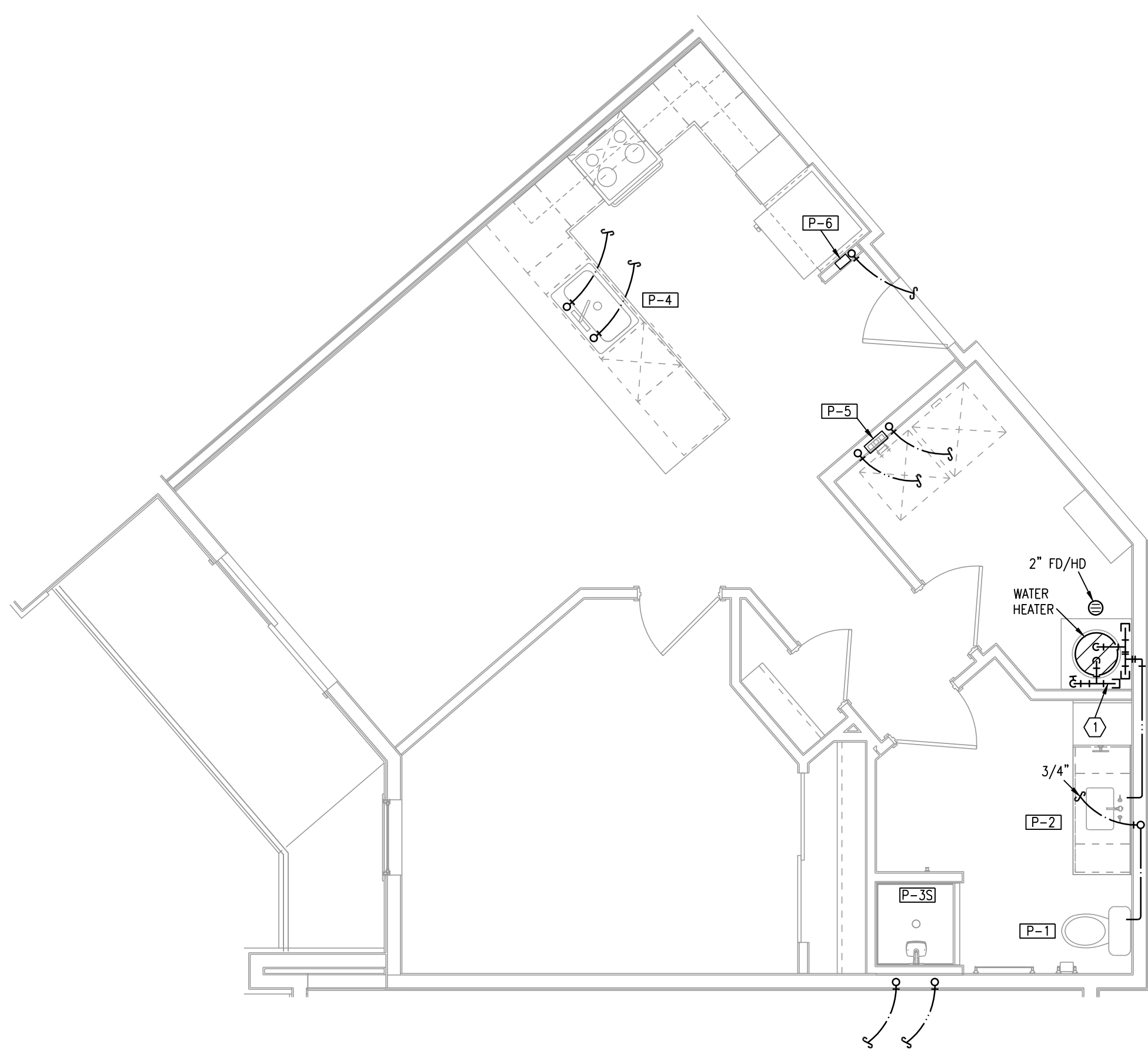
1 TYPICAL UNIT PLAN - A1
1/4"=1'-0" (UNITS A1-1, A1-2 SIMILAR) PLUMBING



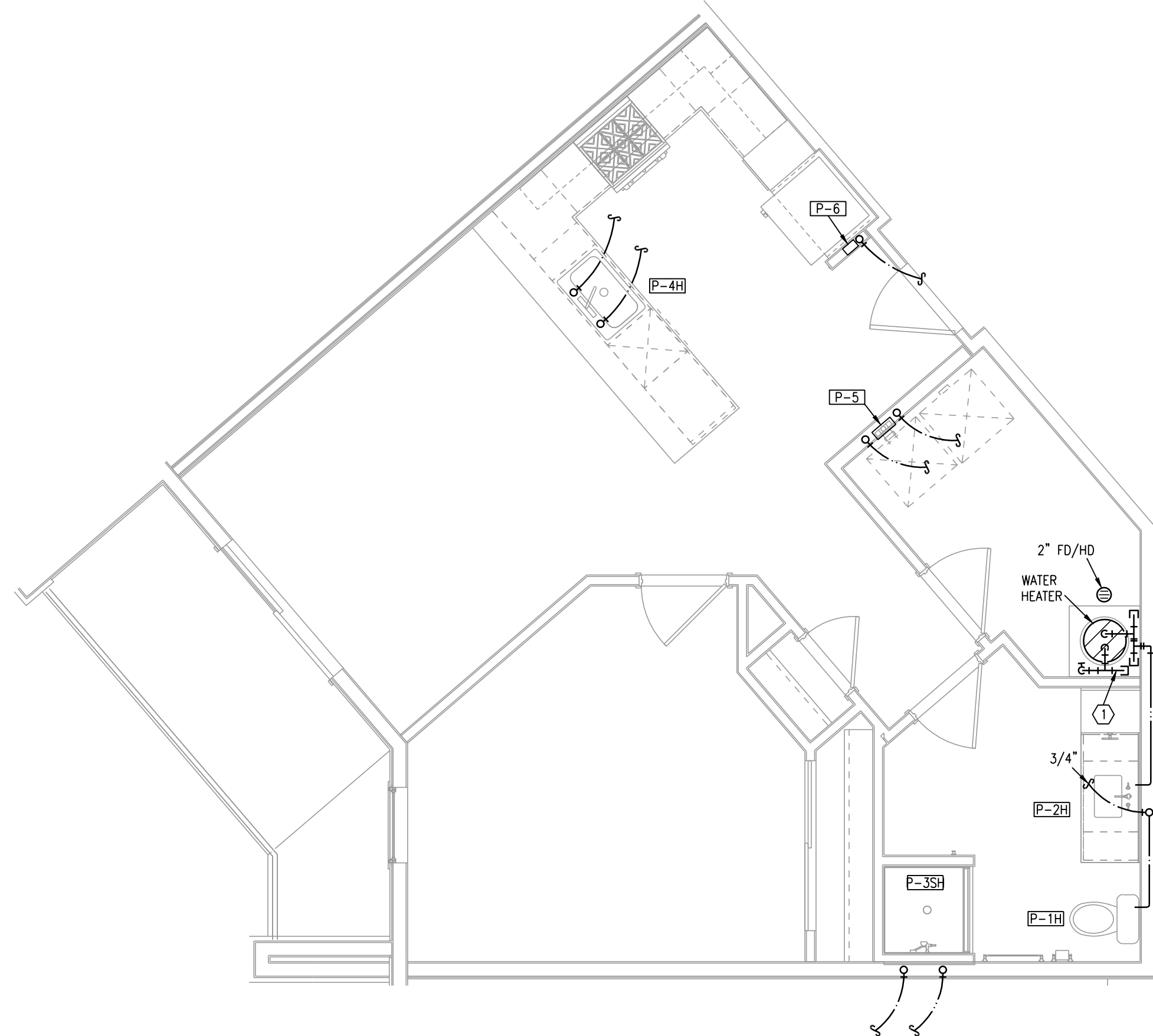
2 TYPICAL UNIT PLAN - A2
1/4"=1'-0" PLUMBING



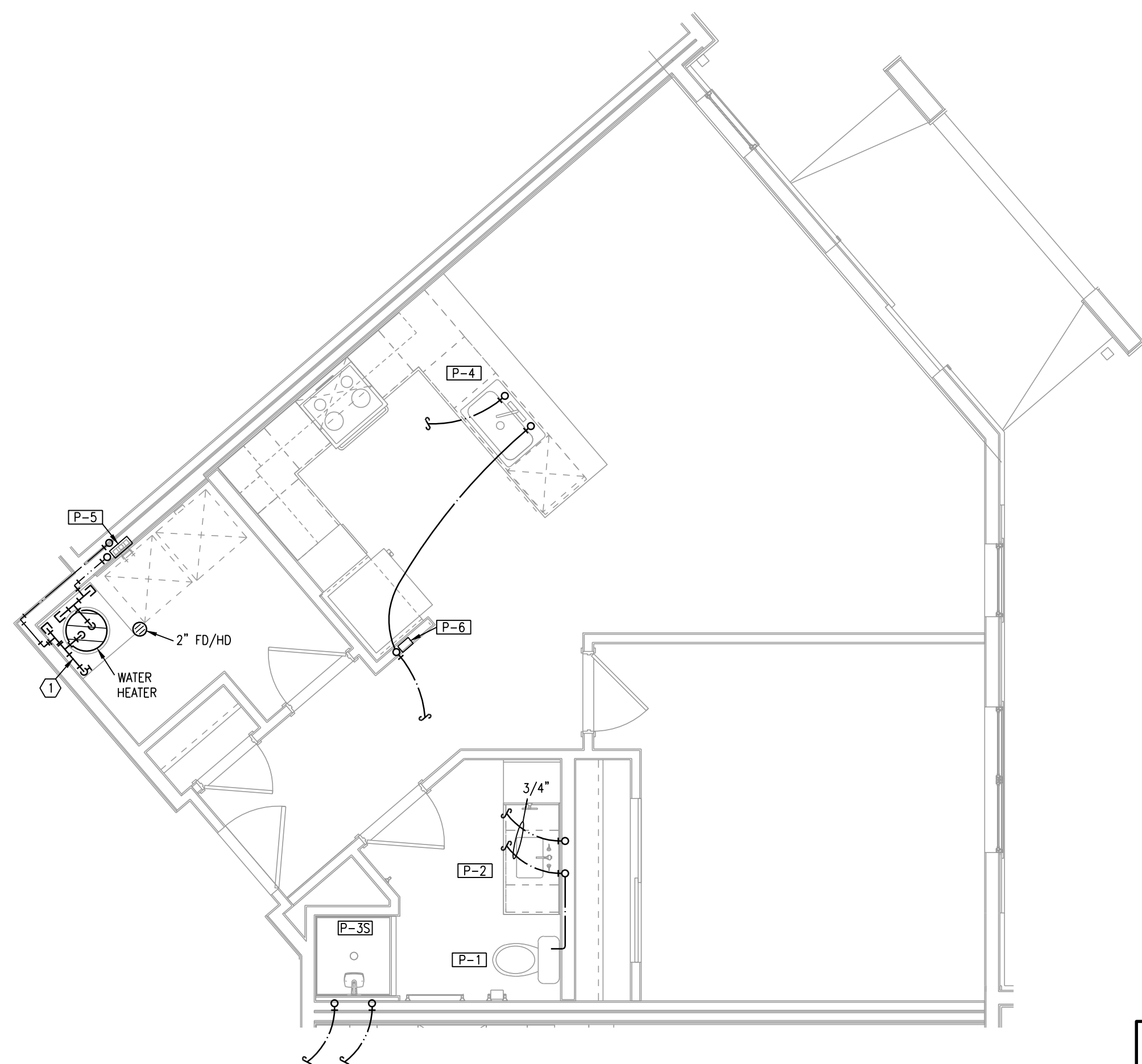
3 TYPICAL UNIT PLAN - A3
1/4"=1'-0" PLUMBING



4 TYPICAL UNIT PLAN - A4
1/4"=1'-0" PLUMBING



5 TYPICAL UNIT PLAN - A4 TYPE A
1/4"=1'-0" PLUMBING



5 TYPICAL UNIT PLAN - A5
1/4"=1'-0" PLUMBING

- NOTES:**
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 2. PROVIDE SURGE SUPPRESSORS ON P-4, P-5, AND P-6.
 3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS..
 4. PROVIDE 2" FLOOR 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.

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



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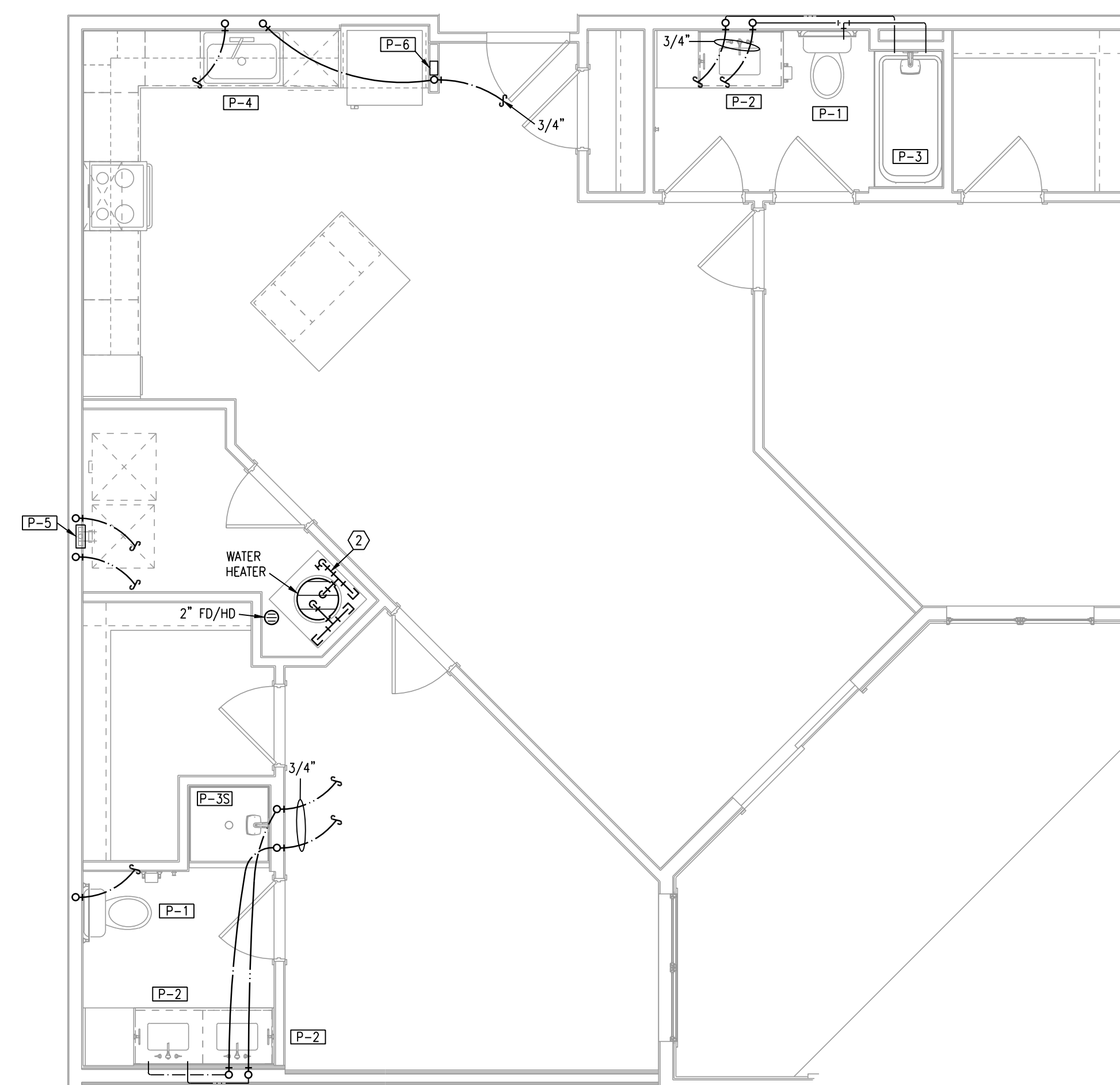
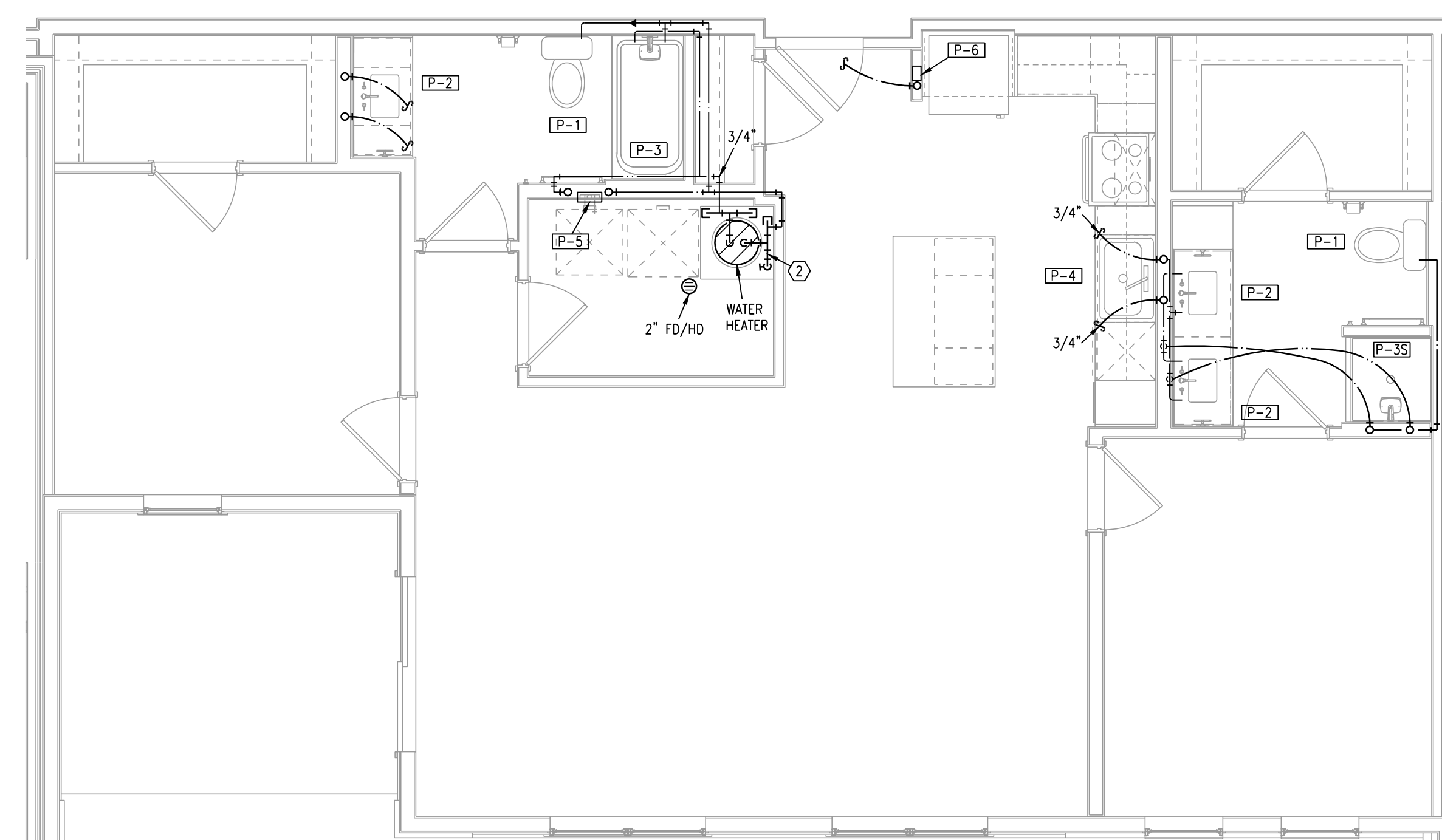
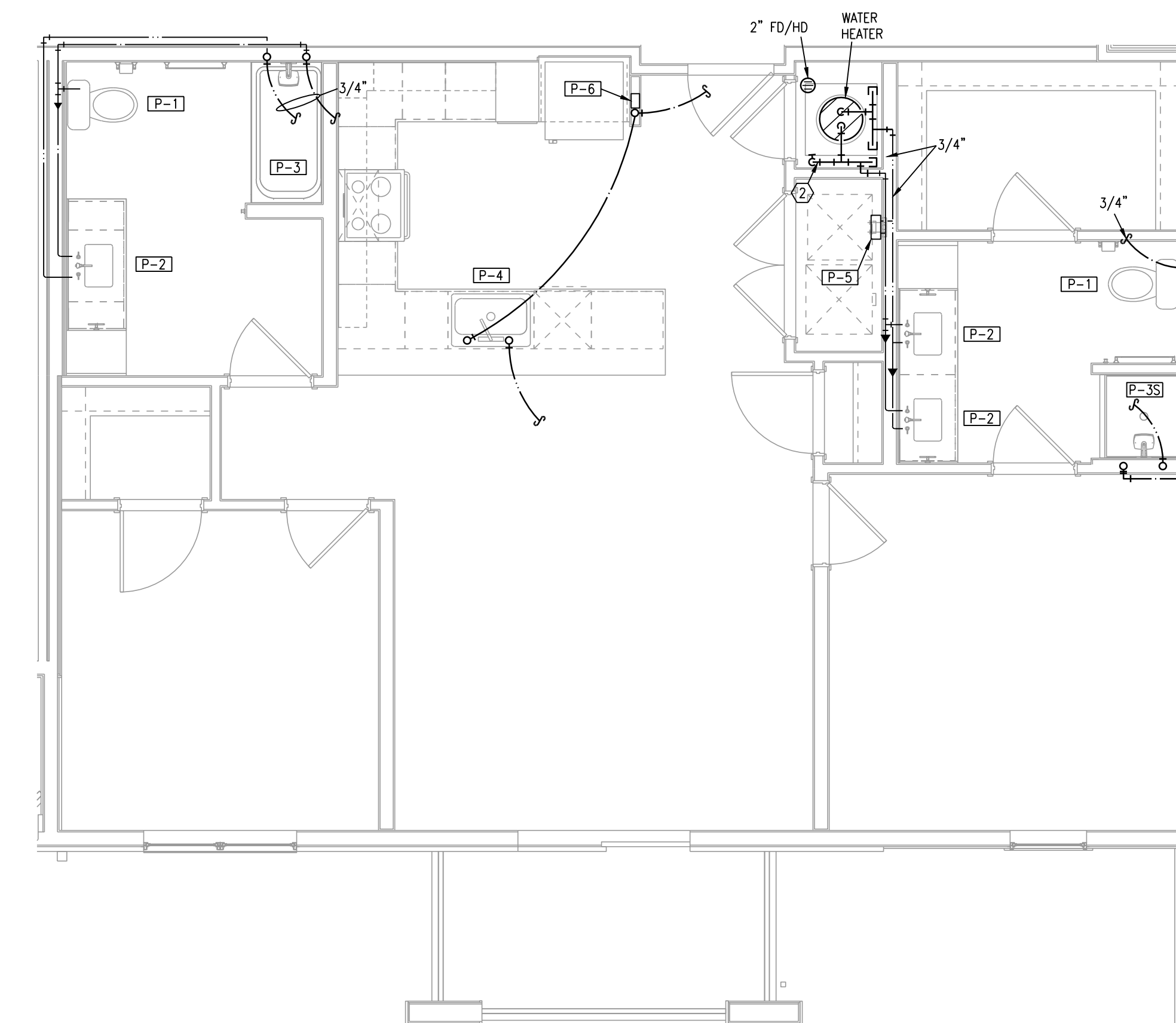
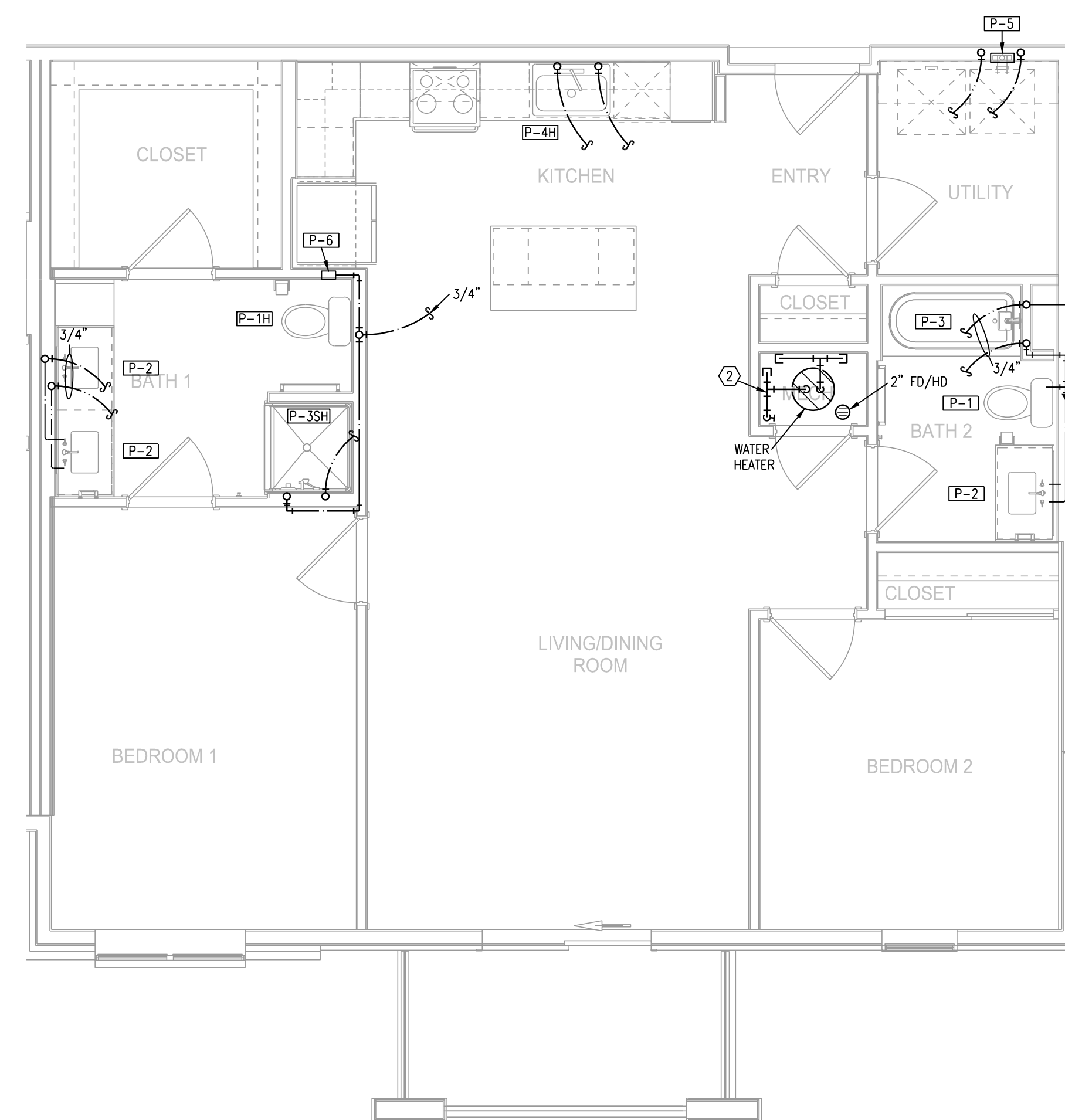
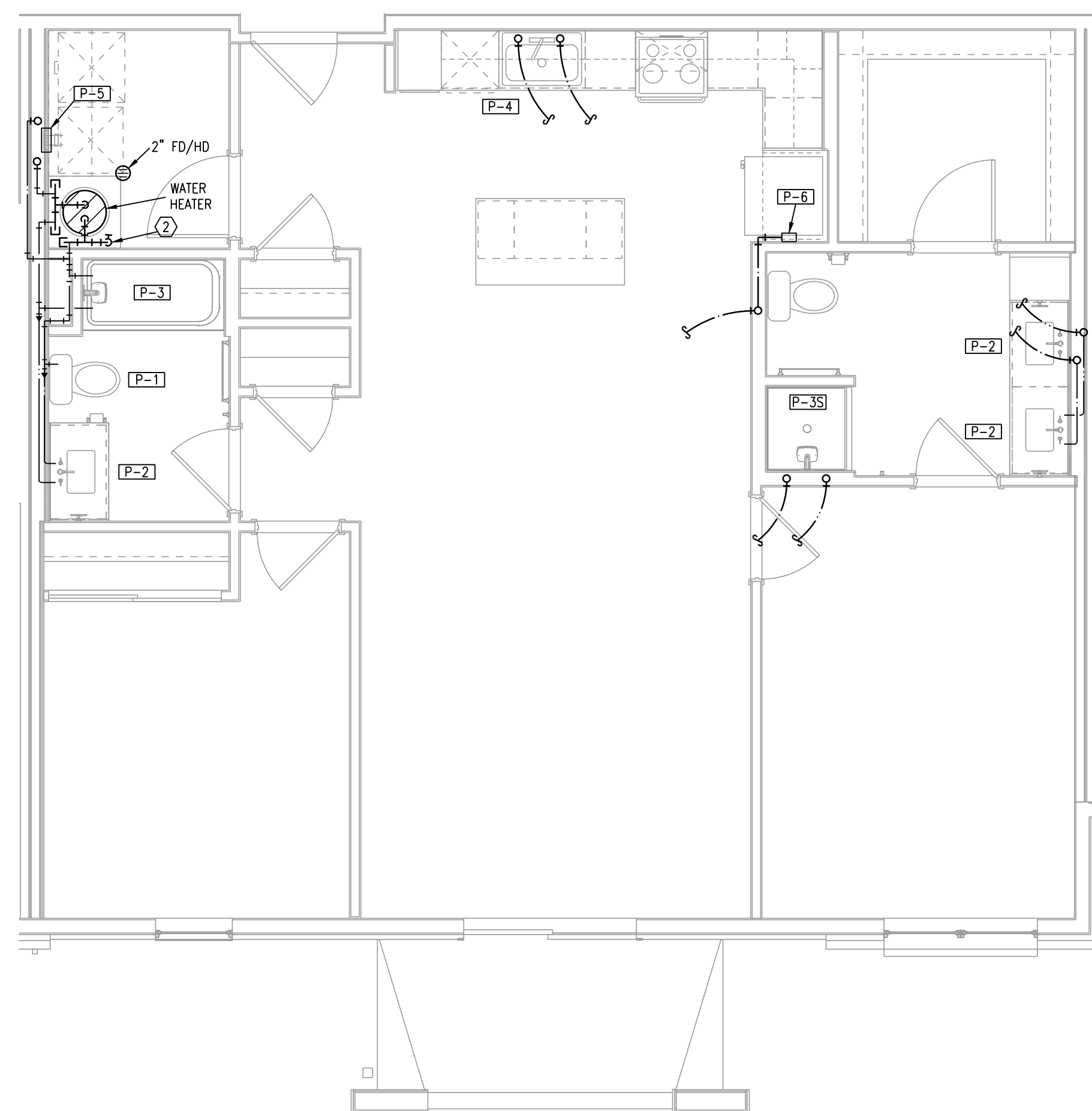
SHEET NO.

P201

TYPICAL UNIT PLANS - PLUMBING



LSA PROJECT NO. 2104008



- | | |
|---------------|--|
| NOTES: | |
| 1. | ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC. |
| 2. | PROVIDE SURGE SUPPRESSORS ON P-4, P-5, AND P-6. |
| 3. | CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS. |
| 4. | PROVIDE 2" FLOOR 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. |

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



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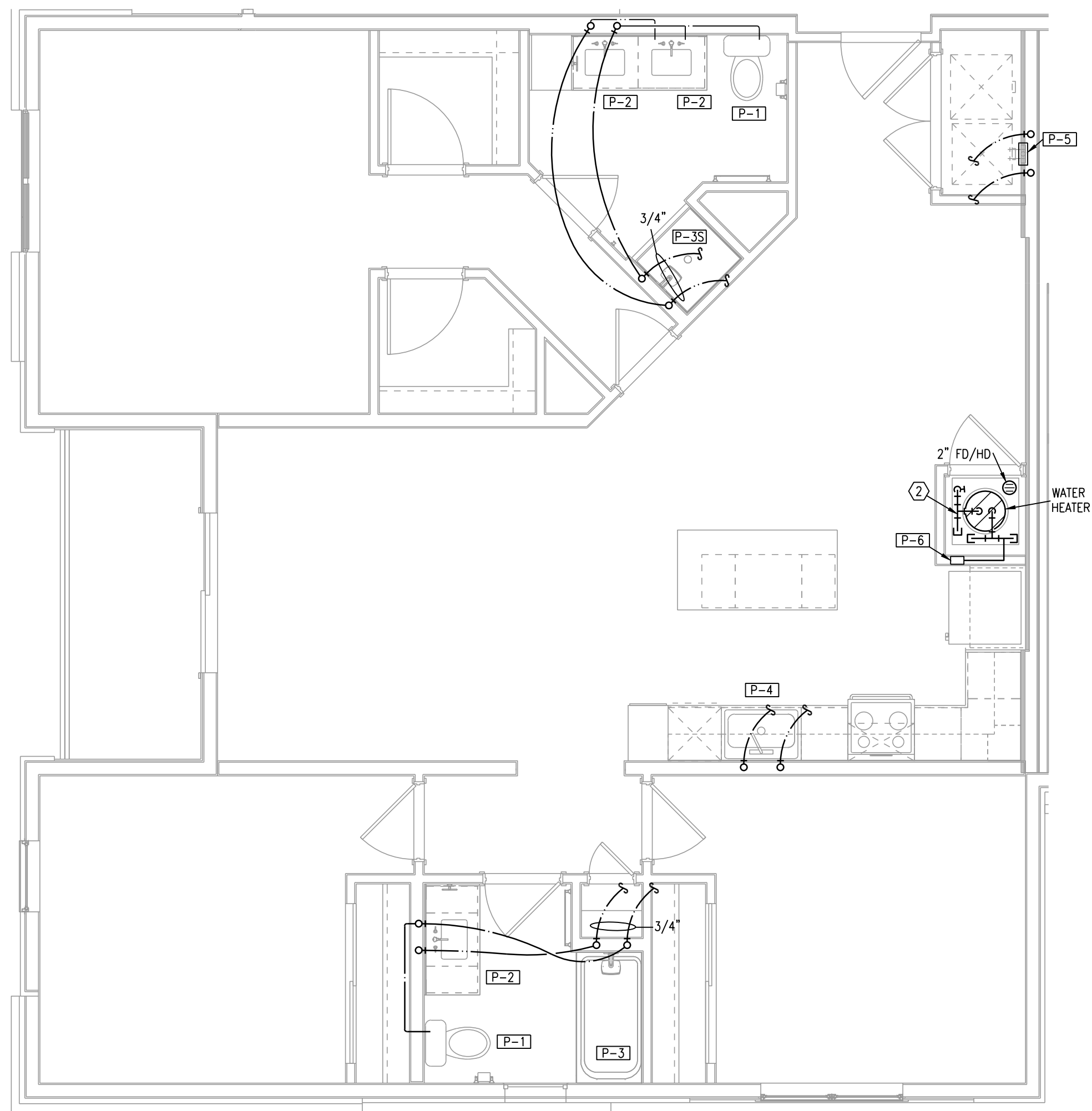
TR.i PROJECT NO. 20-001

SHEET NO.

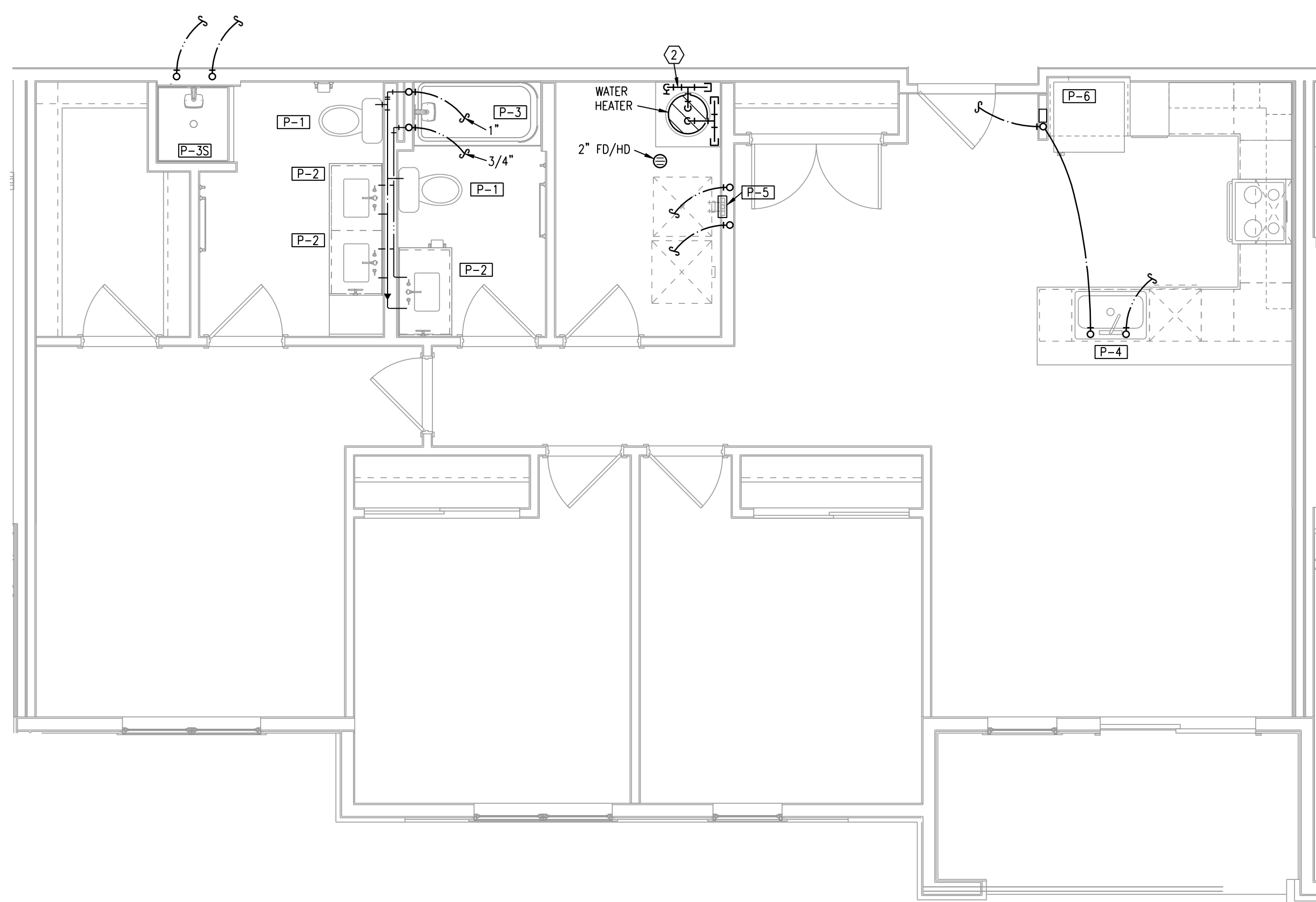
P202

TYPICAL UNIT PLANS - PLUMBING

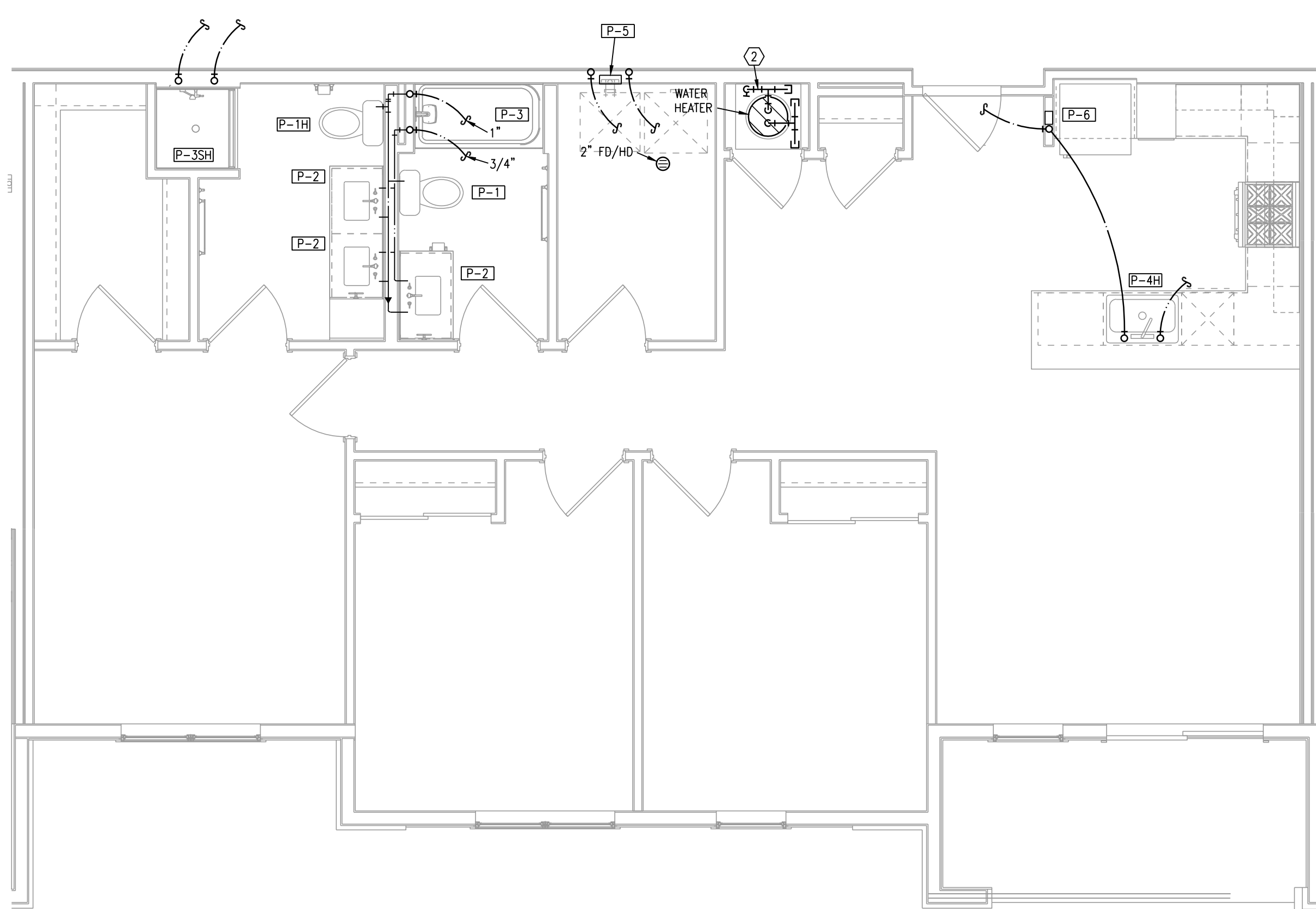




1 TYPICAL UNIT PLAN - C1
1/4"=1'-0" (UNIT C1-1 PLUMBING
SIMILAR)



2 TYPICAL UNIT PLAN - C2
1/4"=1'-0" (UNIT C2-1 PLUMBING
SIMILAR)



3 TYPICAL UNIT PLAN - C2 TYPE A
1/4"=1'-0" PLUMBING

- NOTES:**
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 2. PROVIDE SURGE SUPPRESSORS ON P-4, P-5, AND P-6.
 3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS..
 4. PROVIDE 2" FLOOR 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.

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



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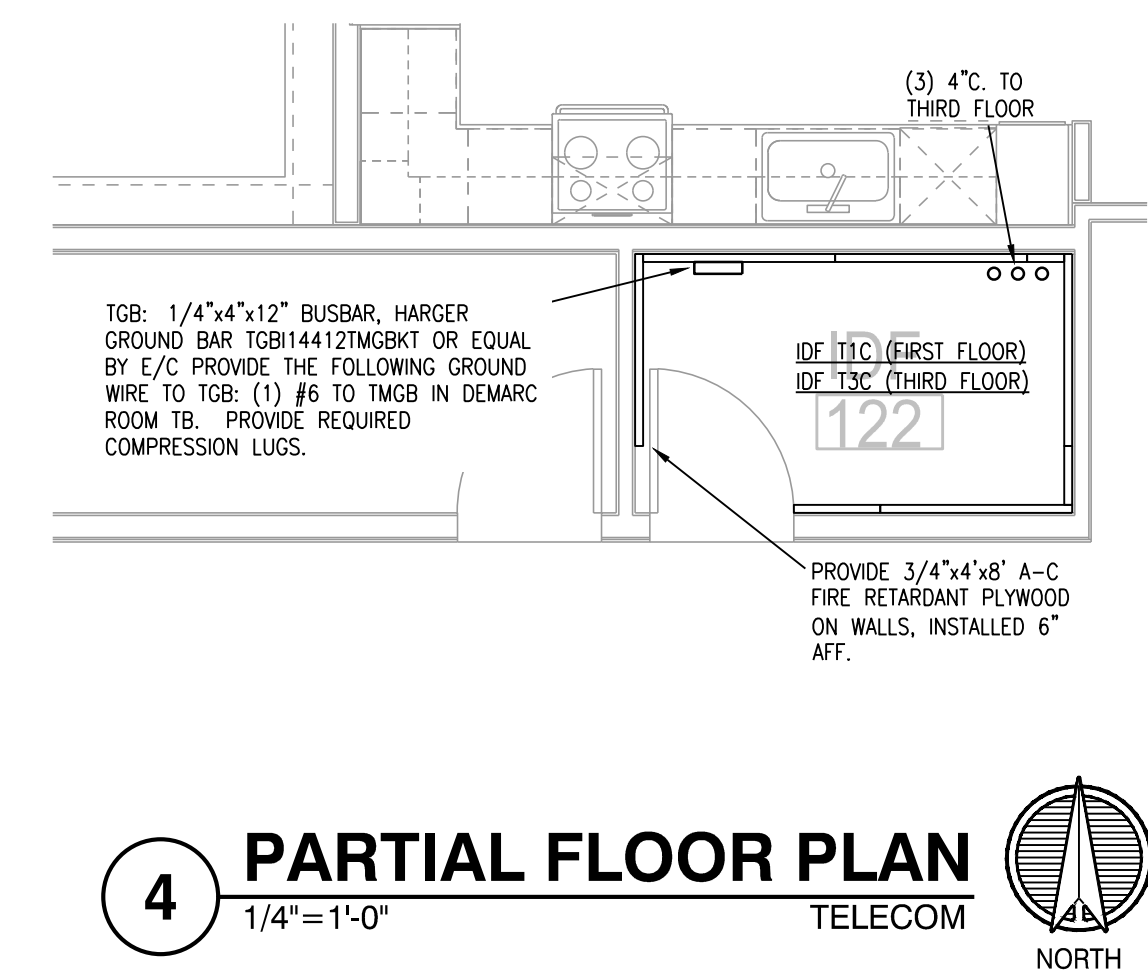
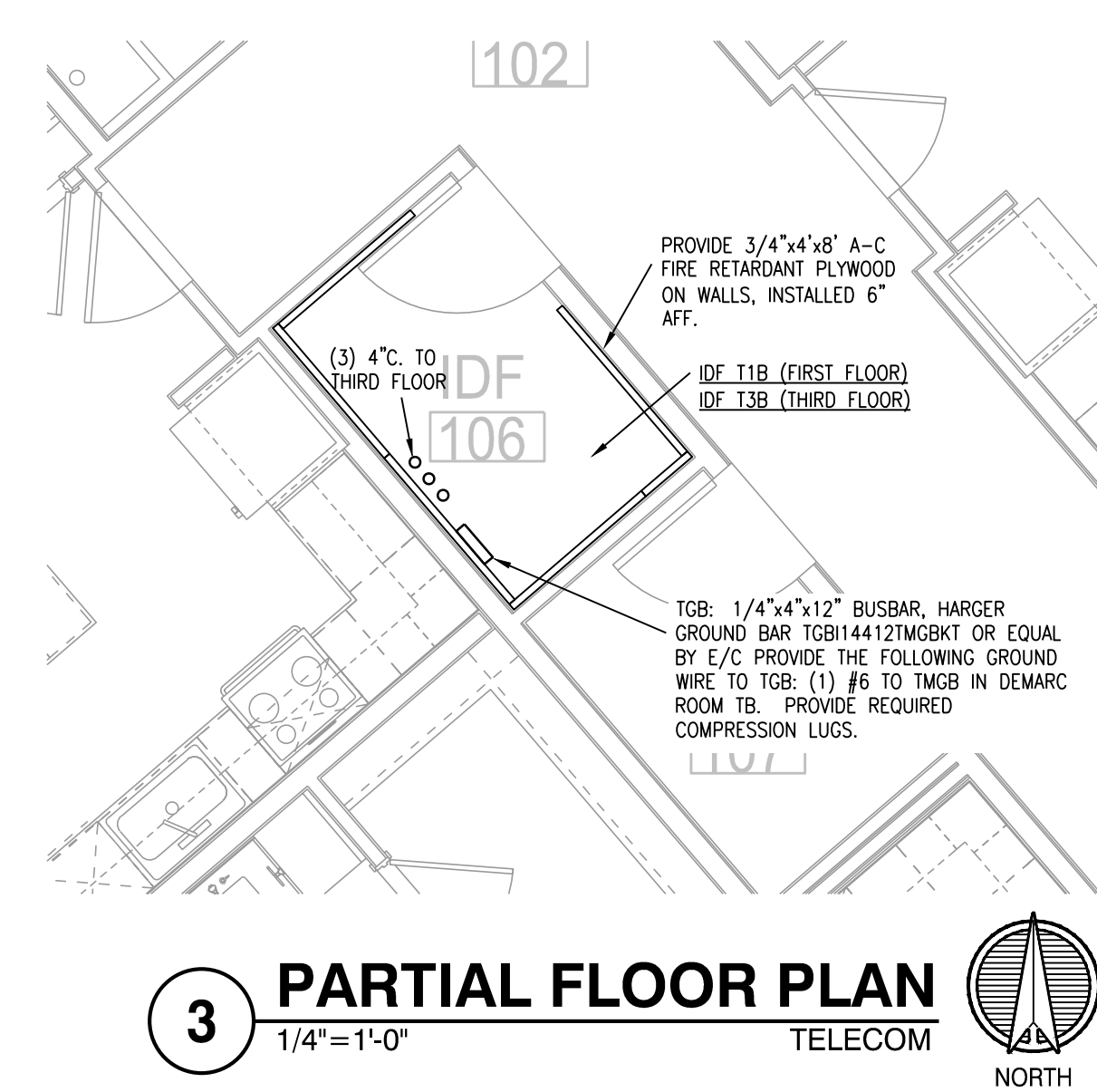
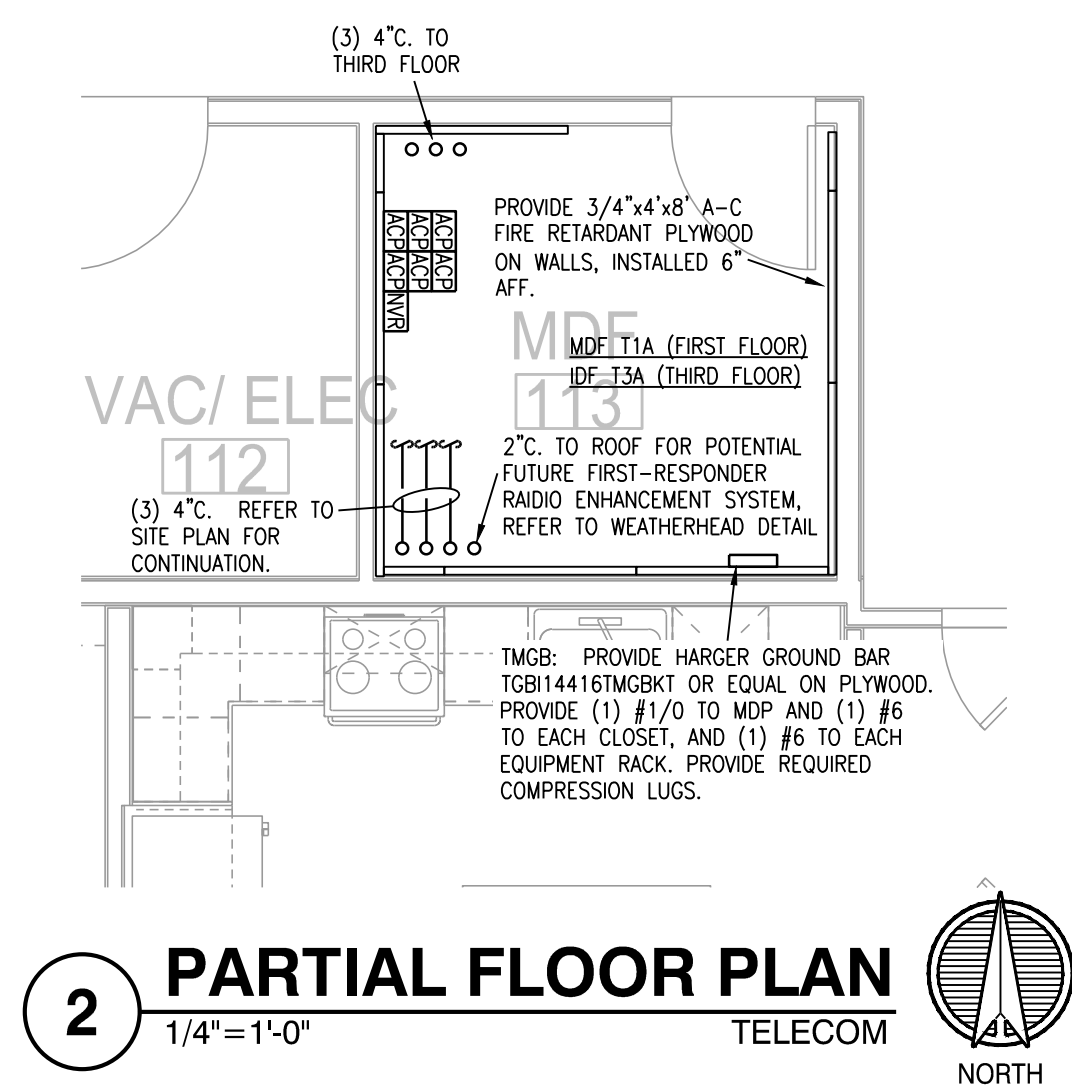
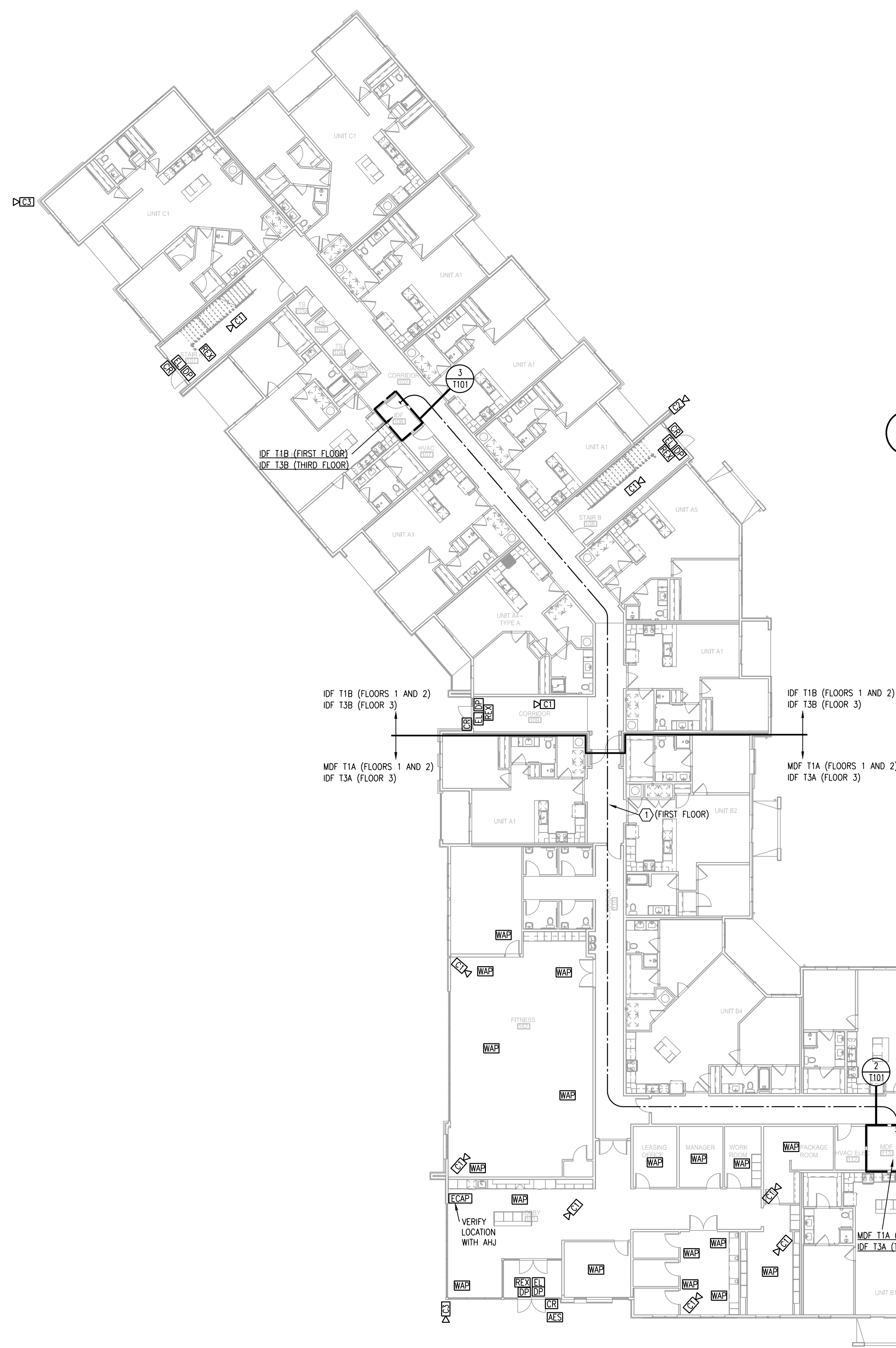
TR,I PROJECT NO. 20-001

SHEET NO.

P203

TYPICAL UNIT PLANS - PLUMBING





1 BLDG 1-A, FIRST FLOOR PLAN
1/16"=1'-0" (3RD FLOOR SIM.) TELECOM NORTH

LEGEND:
(1) (3) 4" EMT CONDUITS BY E/C
NOTES:
1. ROUTE ALL CABLING FOR CARD READERS AND CAMERAS TO MDF T1A.

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St. Louis, Missouri 63144
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SHEET NO.

T101

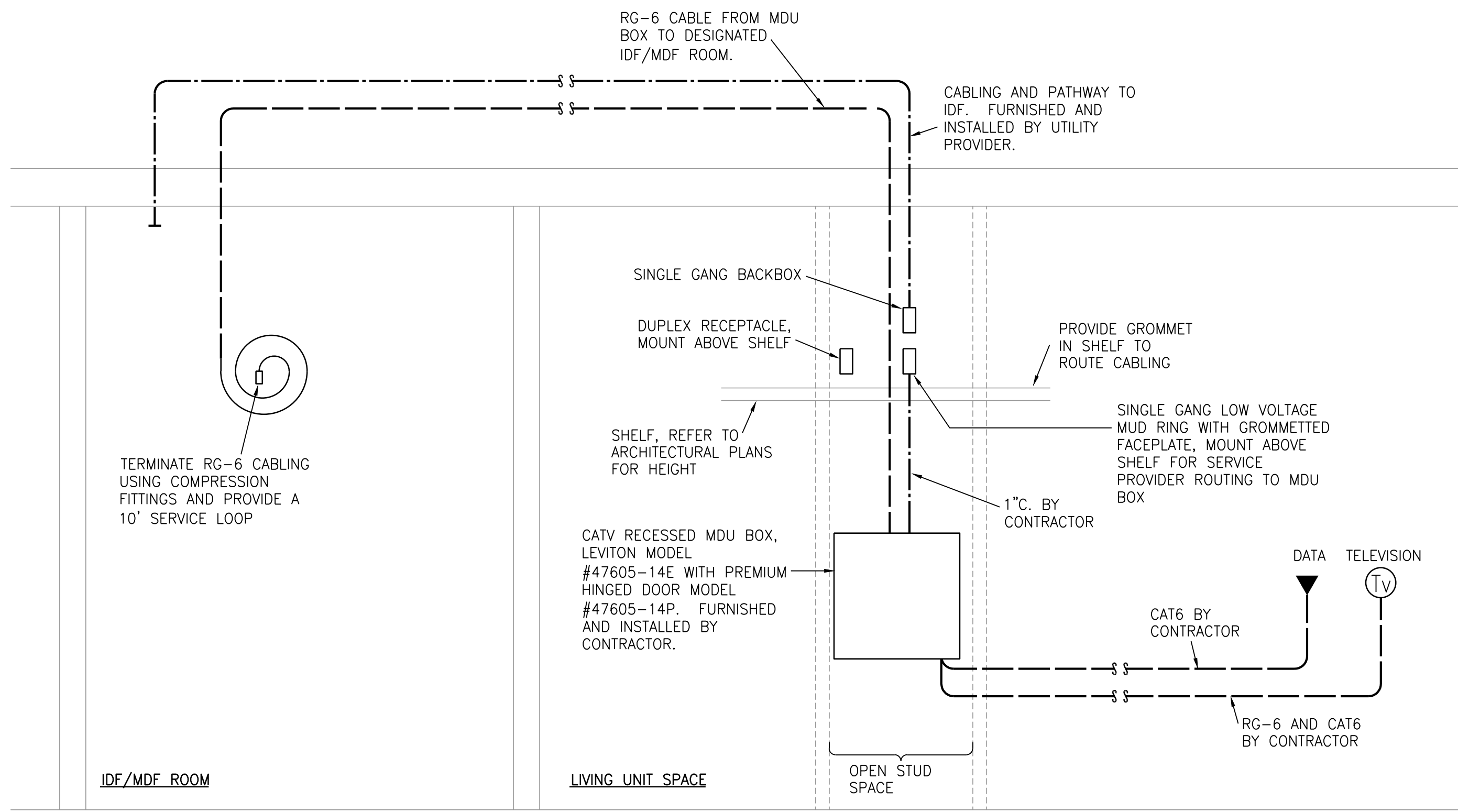
BLDG 1-A, FIRST FLOOR PLAN - TELECOM

LS&A
Latter Sommers
& Associates, P.A.
CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsap@lsaa.com
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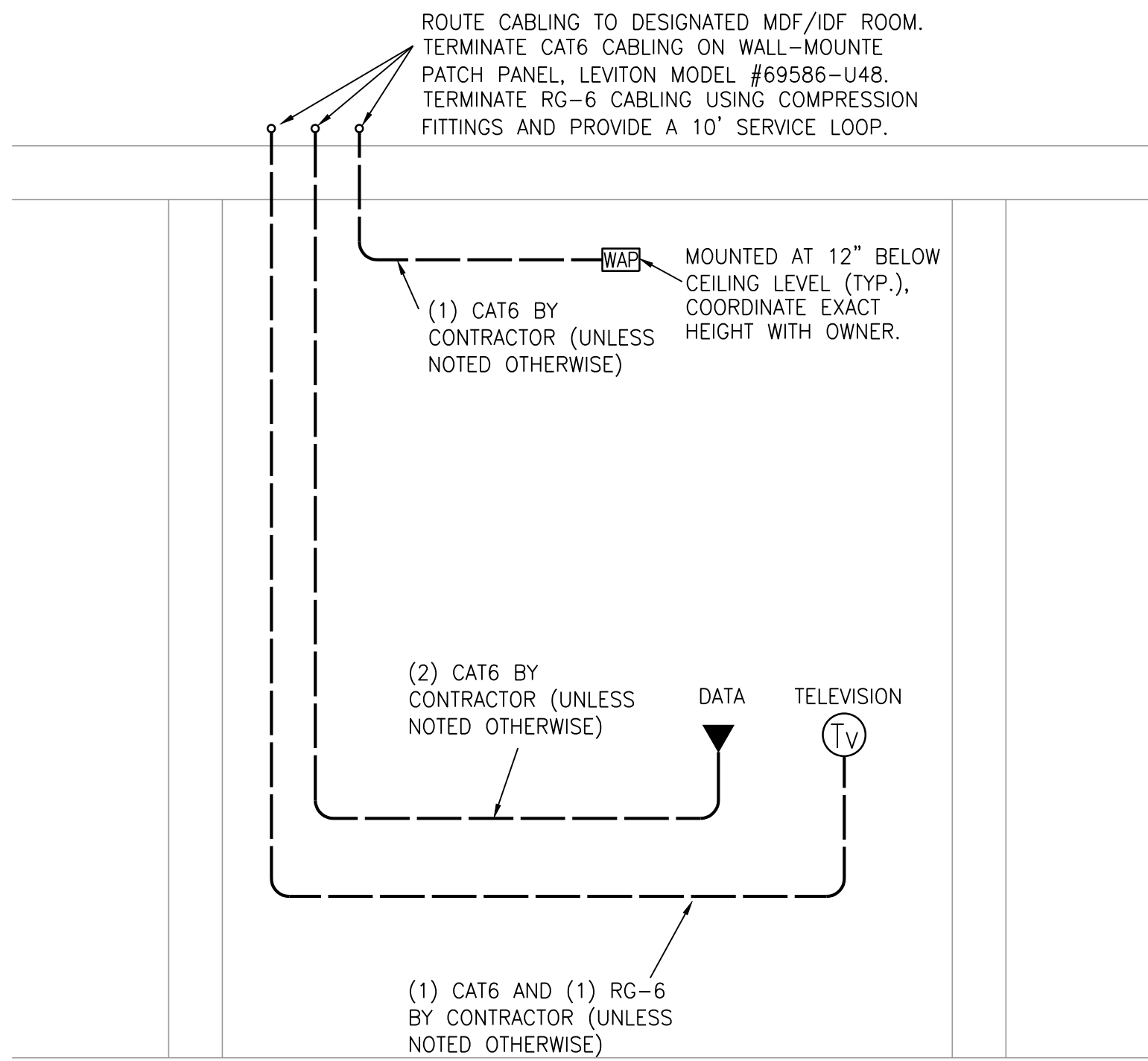


LS&A
Latimer Sommers
& Associates, P.
CONSULTING ENGINEER
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3332
FAX: (785) 233-0647
Email: lsapa@lsapa.com

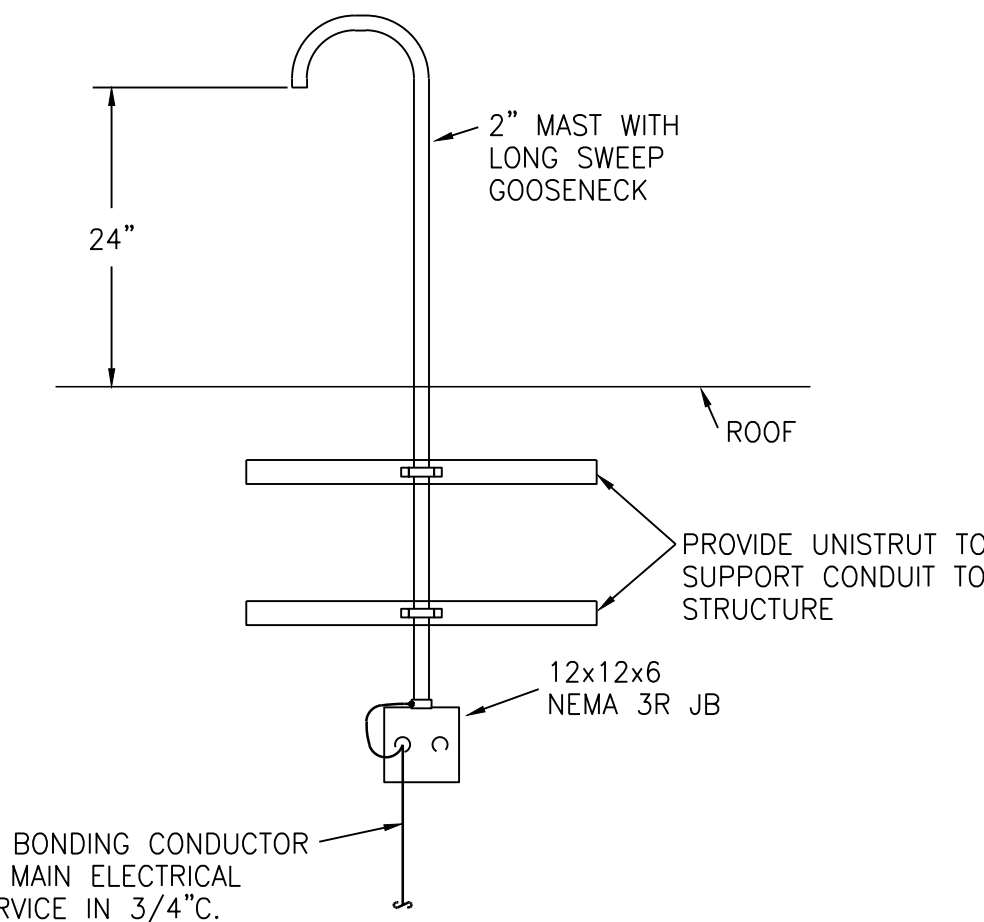
T102
BLDG 2-A, PARTIAL FIRST FLOOR
PLAN - TELECOM



1 TYPICAL APARTMENT RISER DIAGRAM
NO SCALE



2 TYPICAL COMMON/OFFICE AREA RISER DIAGRAM
NO SCALE



3 WEATHERHEAD DETAIL
NO SCALE

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
ECAP	CORNELL	A-4800M	EMERGENCY CALL ANNUNCIATOR PANEL	1
EPS	CORNELL	4800V	EMERGENCY CALL STATION	2
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.

MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
ECAP	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
ECAP	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
ECAP	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.
3 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

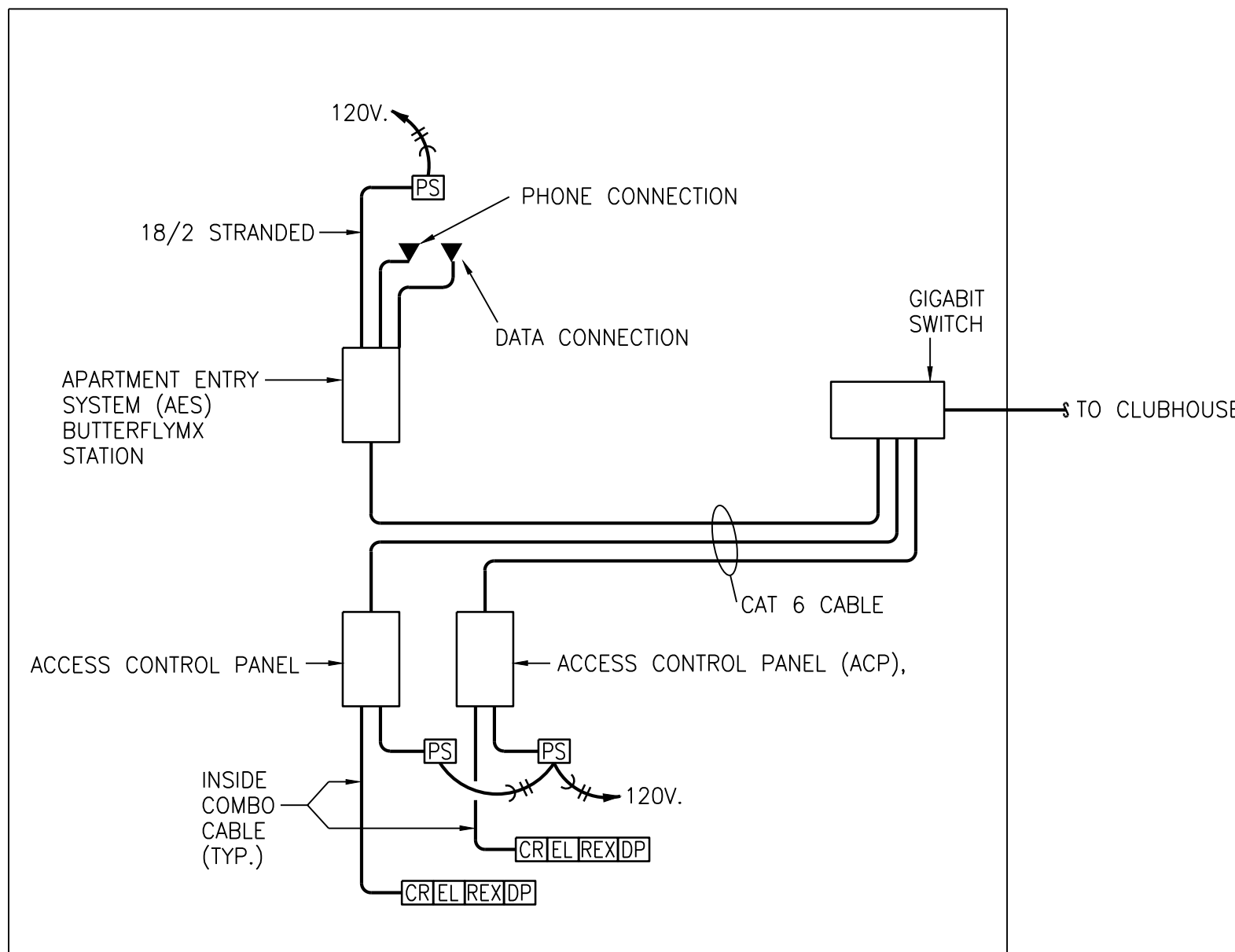
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CR	SALTO	XS4	CARD READER	
ECAP	SALTO	XS4 CU42E0/CU4200	ACCESS CONTROL PANEL/AUXILIARY CONTROL PANEL	2
ECAP	SALTO		FORB	1
EC1-1	MARCH NETWORKS	35835-101	INDOOR CAMERA	
EC2-1	AXIS		OUTDOOR 180° CAMERA	
EC3-1	AXIS	P3717-PL	OUTDOOR 360° CAMERA	3

REMARKS:
1 - PROVIDE 600.
2 - PROVIDE QUANTITIES SHOWN ON PLANS.
3 - PROVIDE WITH 194N01D PENDANT KIT.

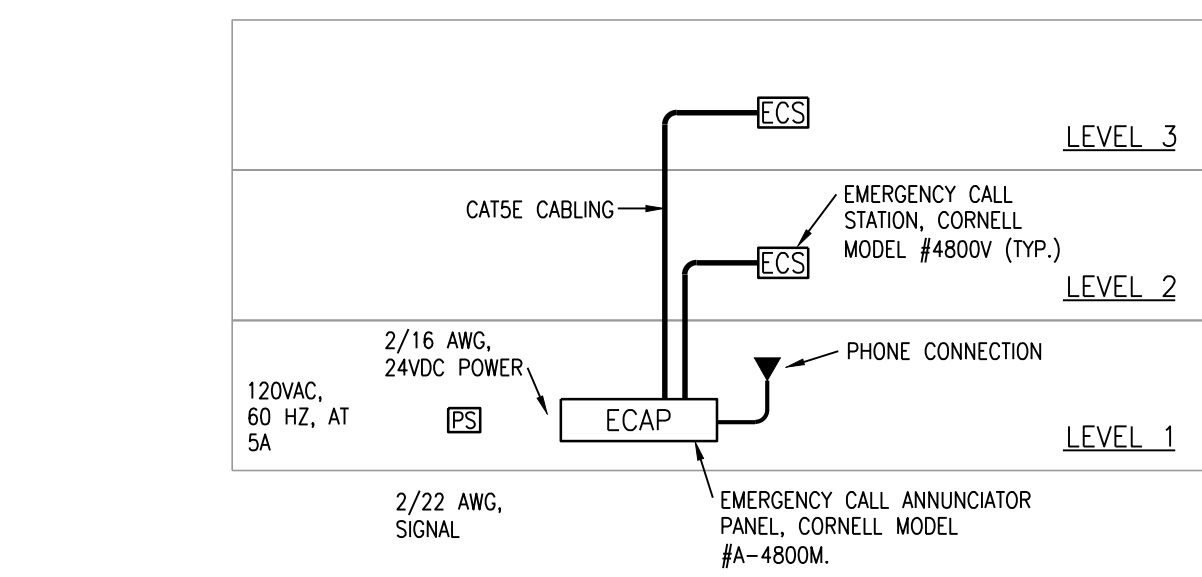
LEGEND:
① PROXIMITY CARD READER (ORANGE) 18GA/6 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
② MAGNETIC SWITCH (WHITE) 18GA/2 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
③ ELECTRIC LOCK (GRAY) 16GA/4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
④ REQUEST TO EXIT (BLUE) 18GA/4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.
⑤ ELECTRIC LOCK FROM PS TO PUSHBAR 18GA/4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE.

ACCESS CONTROL LEGEND
ECAP ACCESS CONTROL PANEL
CR CARD READER
ECAP REQUEST TO EXIT *
ECAP DOOR POSITION SWITCH *
ECAP ELECTRIC LOCK (24V DC) *
ECAP POWER SUPPLY (24V DC) *
ECAP ADA PUSH BUTTON *
ECAP DUAL ADA PUSH BUTTON *
ECAP ADA MOTORIZED OPERATOR *
ECAP AUDIO INTERCOM MASTER STATION
ECAP AUDIO INTERCOM
ECAP DOUBLE THROW, DOUBLE POLE DOOR POSITION SWITCH *

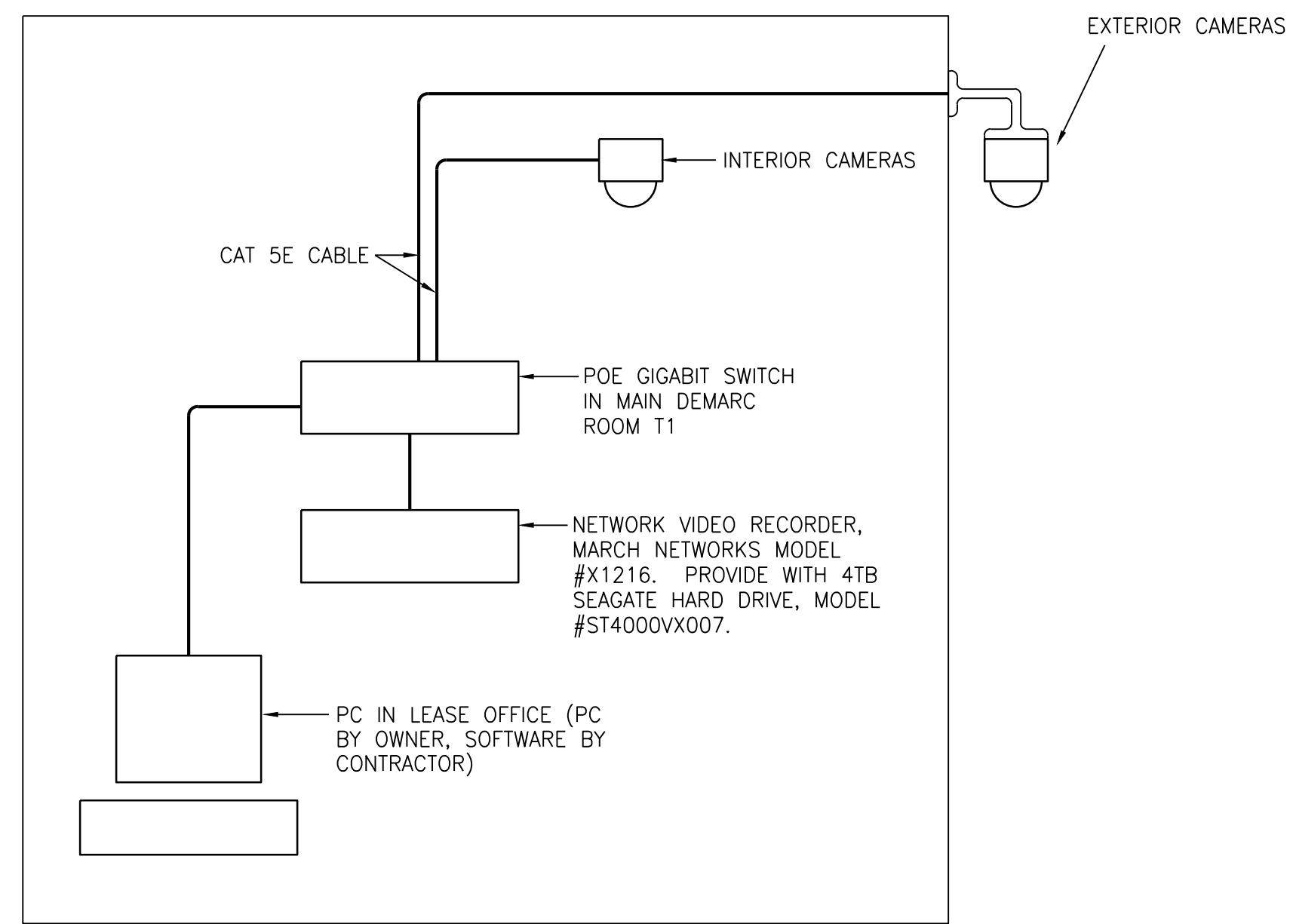
* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING/POWER REQUIREMENTS.



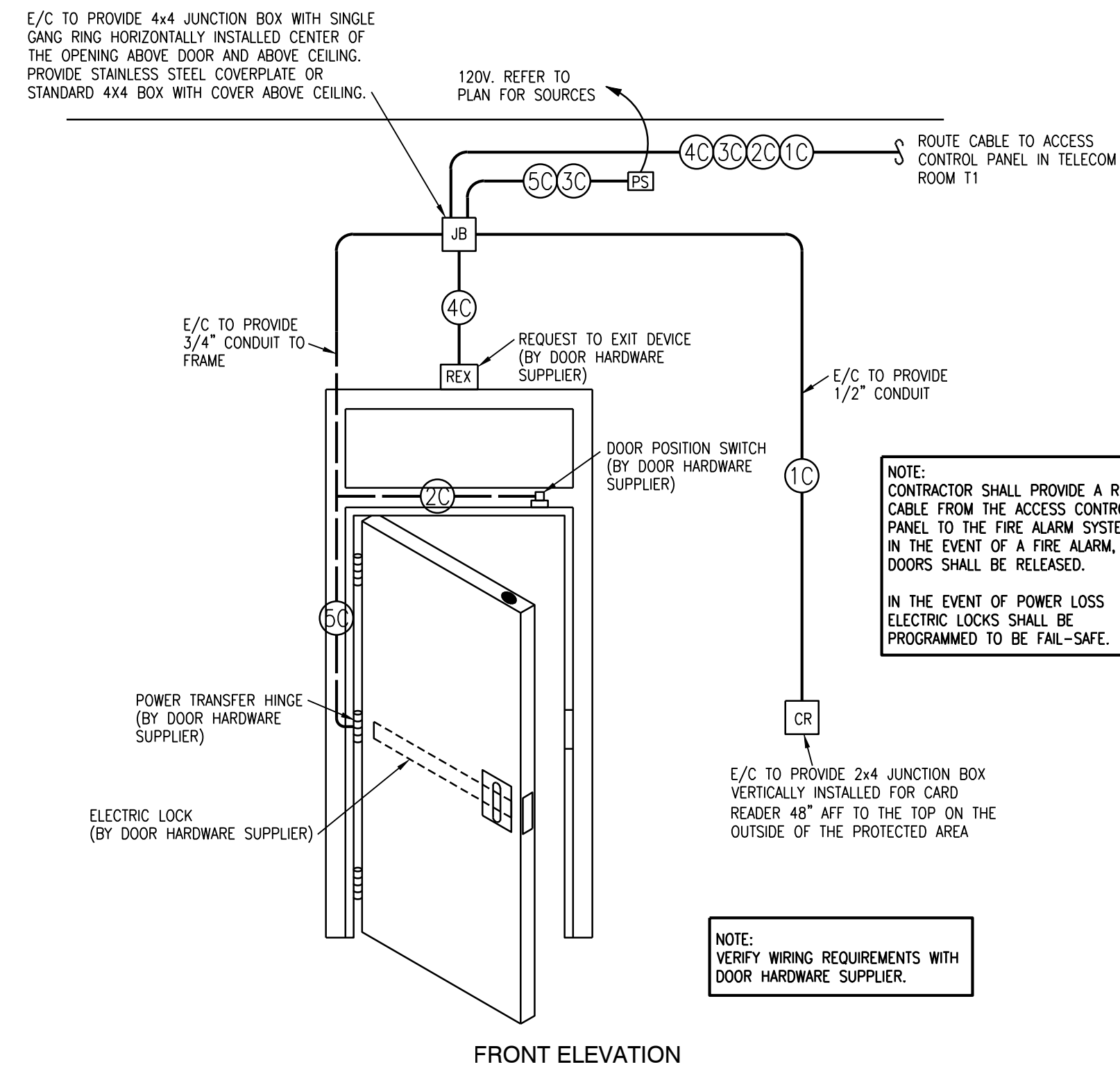
7 TYPICAL ACCESS CONTROL PANEL DETAIL
NO SCALE



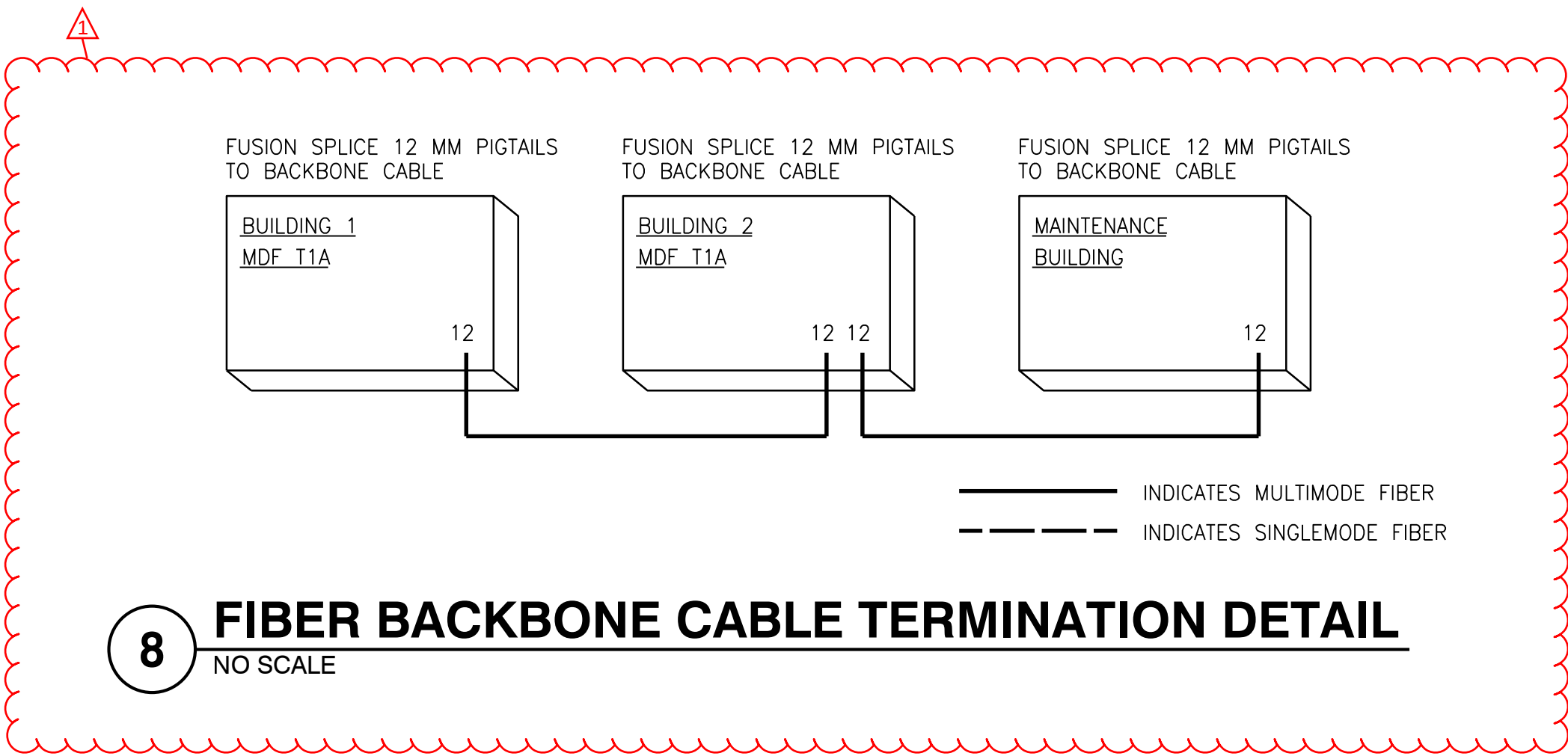
4 TWO-WAY COMMUNICATION DIAGRAM
NO SCALE



5 TYPICAL SECURITY CAMERA DETAIL
NO SCALE



6 ACCESS CONTROL DOOR DETAIL
NO SCALE



8 FIBER BACKBONE CABLE TERMINATION DETAIL
NO SCALE