























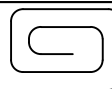


















COMMUNICATIONS SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	DATA OUTLET; ONE (1) CAT6 DROP	18" AFF OR AS NOTED
	ABOVE-COUNTER DATA OUTLET; ONE (1) CAT6 DROP	6" AC OR AS NOTED
	CEILING-MOUNTED DATA OUTLET; ONE (1) CAT6 DROP	
	FLOOR -MOUNTED DATA OUTLET, COORDINATE EXACT LOCATION WITH ELECTRICAL DRAWINGS; ONE (1) CAT6 DROP	
	VOICE OUTLET; ONE (1) CAT6 DROP	18" AFF OR AS NOTED
	ABOVE-COUNTER VOICE OUTLET; ONE (1) CAT6 DROP	6" AC OR AS NOTED
	CEILING-MOUNTED VOICE OUTLET; ONE (1) CAT6 DROP	
	FLOOR-MOUNTED VOICE OUTLET, COORDINATE EXACT LOCATION WITH ELECTRICAL DRAWINGS; ONE (1) CAT6 DROP	
	VOICE/DATA OUTLET; TWO (2) CAT6 DROPS	18" AFF OR AS NOTED
	ABOVE-COUNTER VOICE/DATA OUTLET; TWO (2) CAT6 DROPS	6" AC OR AS NOTED
	CEILING-MOUNTED VOICE/DATA OUTLET; TWO (2) CAT6 DROPS	
	FLOOR-MOUNTED VOICE/DATA OUTLET, COORDINATE EXACT LOCATION WITH ELECTRICAL DRAWINGS; TWO (2) CAT6 DROPS	
	TELEVISION/DATA OUTLET; ONE (1) COAXIAL DROP & ONE (1) CAT6 DROP	18" AFF OR AS NOTED
	CEILING-MOUNTED TELEVISION/DATA OUTLET; ONE (1) COAXIAL DROP & ONE (1) CAT6 DROP	
	FLOOR-MOUNTED TELEVISION/DATA OUTLET, COORDINATE EXACT LOCATION WITH ELECTRICAL DRAWINGS; ONE (1) COAXIAL DROP & ONE (1) CAT6 DROP	
	PULL BOX	
	WIRELESS ACCESS POINT; ONE (1) CAT6 DROP	
	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	
	TELECOMMUNICATIONS GROUNDING BUSBAR	
	STRUCTURED MEDIA CENTER	16" AFF TO BOTTOM







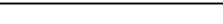



POE ACCESS CONTROL SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	HARDWIRED RCU RFID PROXIMITY CARD READER, WITH BATTERY-BACKUP IN CASE OF POWER FAILURE; SEE NOTE SC-8 ON THIS SHEET	SEE DETAIL 6/T0.01
	DOOR CONTACT	
	ELECTRIC STRIKE OR ELECTRIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	RFID FOB RECEIVER FOR VEHICLE ENTRY	
	INDUCTIVE LOOP DETECTOR	
	KEY PAD	SEE DETAIL 6/T0.01
	MAGNETIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	PASSIVE INFRARED SENSOR (PIR)	
	REQUEST-TO-EXIT	SEE DETAIL 6/T0.01
	DOOR RELEASE PUSHBUTTON	SEE DETAIL 6/T0.01
	TELEPHONE-ENTRY STATION, BUTTERFLYMX (OR EQUAL); PROVIDE COMPATIBLE PEDESTAL WHERE REQUIRED	SEE DETAIL 6/T0.01

COORDINATE HARDWARE AT EACH ACCESS CONTROLLED DOOR LOCATION (CRASHBARS, PANIC DEVICES, LATCHES, LOCKING MECHANISMS, HANDLES, ETC.) WITH THE DOOR HARDWARE CONSULTANT; THESE ITEMS ARE NOT WITHIN THE USE LOW VOLTAGE SCOPE OF WORK.

IP CAMERA SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	FIXED IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	270° MULTISENSOR IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	360° MULTISENSOR IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	DUAL SENSOR FIXED IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	

AUDIO-VISUAL SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	CEILING-MOUNTED SPEAKER; DAISY CHAIN ALL SPEAKERS, CONTROLS, ETC. WITHIN A GIVEN ZONE, THEN HOME RUN TO THE A/V HEAD END LOCATION	
	WALL-MOUNTED SPEAKER; DAISY CHAIN ALL SPEAKERS, CONTROLS, ETC. WITHIN A GIVEN ZONE, THEN HOME RUN TO THE A/V HEAD END LOCATION	
	LANDSCAPE SPEAKER; DAISY CHAIN ALL SPEAKERS, CONTROLS, ETC. WITHIN A GIVEN ZONE, THEN HOME RUN TO THE A/V HEAD END LOCATION	
	VOLUME CONTROL; DAISY CHAIN ALL SPEAKERS, CONTROLS, ETC. WITHIN A GIVEN ZONE, THEN HOME RUN TO THE A/V HEAD END LOCATION	SEE DETAIL 6/10.01
	FLOOR-MOUNTED A/V CONNECTIVITY OUTLET; SEE DETAILS 14 & 16/T-002	
	CEILING-MOUNTED PROJECTOR; PROVIDE TWO (2) CEILING-MOUNTED CAT6 DROPS	

ALL A/V CABLING, INCLUDING CAT6 USED FOR A/V APPLICATIONS, SHALL BE SHIELDED, NO EXCEPTION

RACEWAY & CIRCUITING SYSTEM		
SYMBOL	DESCRIPTION	HEIGHT
	JUNCTION BOX. SEE FLOOR PLANS FOR EXACT SIZE.	
 S	FLOOR MOUNTED JUNCTION BOX. "S" = SURFACE, "R" = RECESSED.	
	GROUND MOUNTED PULL BOX.	
 SEC-1	TYPICAL HOMERUN. "SEC" ADJACENT TO HOMERUN ARROWHEAD INDICATES ROUTE WIRE & CONDUIT TO THE NEAREST SECURITY EQUIPMENT CABINET.	
	RACEWAY INSTALLED CONCEALED IN WALL AND \ OR ABOVE CEILING.	
	RACEWAY INSTALLED CONCEALED IN SLAB OR BELOW GRADE.	
	RACEWAY INSTALLED EXPOSED.	
	CONDUIT UP \ CONDUIT DOWN	
	GROUND, #6 AWG TO 8'-0" COPPERWELD GROUND ROD	
	SURGE PROTECTION DEVICE	

SYSTEMS COORDINATION NOTES:

- SC-1 COORDINATE EXACT STUB-OUT LOCATIONS OF SITE CONDUITS FOR INCOMING TELECOM SERVICE WITH THE OWNER'S CONTRACTED SERVICE PROVIDER(S).
- SC-2 ALL COPPER VOICE/DATA CABLING SHALL BE CATEGORY 6. ALL PATCH PANELS/PUNCH-DOSS USED FOR WIRELESS ACCESS POINTS, SURVEILLANCE CAMERAS, & ACCESS CONTROL POWER SUPPLIES SHALL BE POWER-OVER-ETHERNET (POE) RATED.
- SC-3 PROVIDE PULL BOX, SIZED PER N.E.C., FOR ANY CONDUIT RUN EXCEEDING 200' OR MORE THAN 270' OF CUMULATIVE BEND.
- SC-4 PROVIDE ONE (1)-1" CONDUIT TO EACH PEDESTRIAN GATE, INCLUDING POOL GATES, FROM THE NEAREST TELECOM ROOM.
- SC-5 PROVIDE ONE (1)-2" CONDUIT TO EACH VEHICLE ENTRY GATE FROM THE NEAREST TELECOM ROOM.
- SC-6 ALL FLOOR BOX LOCATIONS SHALL BE COORDINATED WITH ELECTRICAL; SHARE SAME BOX AS ELECTRICAL, WITH DIVIDER TO SEPARATE LOW VOLTAGE. PROVIDE ONE (1)-1" CONDUIT, MINIMUM, FROM FLOOR BOX TO THE NEAREST WALL, THEN UP TO THE ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE HOME RUNS.
- SC-7 CLUBHOUSE MDF ROOM SHALL BE EQUIPPED WITH A MINIMUM OF ONE (1) WALL-MOUNTED RACK, MAIN TELECOMMUNICATIONS GROUNDING BUSBAR, COAXIAL BULKHEAD PANEL, 110 BLOCKS, CONDUIT SLEEVES, SPACE FOR SERVICE PROVIDER EQUIPMENT, ETC. REQUIRED PER THE SYSTEMS SHOWN IN THE DRAWINGS & SPECIFICATIONS.
- SC-8 PROVIDE 18"W LADDER RACK IN EACH TELECOM ROOM AS REQUIRED TO DISTRIBUTE CABLING.
- SC-9 ELECTRICAL SHALL PROVIDE CLUBHOUSE MDF ROOM & EACH TELECOM UTILITY CABINET WITH A MINIMUM OF TWO (2) DEDICATED 20A QUADS & ONE (2) STANDARD DUPLEX RECEPTACES; ALL DEDICATED QUADS SHALL BE ON EMERGENCY POWER WHERE AVAILABLE.
- SC-10 PROVIDE ONE (1) DEDICATED VOICE LINE FOR POOL EMERGENCY PHONE, TWO (2) DEDICATED VOICE LINES AT EACH BUILDING'S FIRE ALARM CONTROL PANEL (FACP), & ONE (1) DEDICATED VOICE LINE PER ELEVATOR IN THE RESPECTIVE ELEVATOR MACHINE ROOM OR ELEVATOR PIT.
- SC-11 PROVIDE WIRELESS ACCESS POINTS FOR FULL FIB COVERAGE IN ALL AMENITY/Common AREAS & ADMINISTRATIVE AREAS.
- SC-12 PROVIDE COMPLETE ZONED AUDIO SYSTEMS IN AMENITY/Common AREAS & ADMINISTRATIVE AREAS COMPRISED OF CEILING-MOUNTED SPEAKERS (INDOORS), LANDSCAPE-STYLE SPEAKERS (OUTDOORS), VOLUME CONTROLLERS, AUDIO ZONE CONTROLLERS, MAIN AUDIO SYSTEM CONTROLLER, ETC. REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
- SC-13 PROVIDE A/V CONNECTIVITY IN ALL CONFERENCE ROOMS, INCLUDING CONNECTIONS FOR HDMI, VGA, 3.5MM AUDIO, CAT6 NETWORK CONNECTIONS, ETC. ALL A/V CABLING, INCLUDING CAT6 USED FOR A/V APPLICATIONS, SHALL BE SHIELDED; NO EXCEPTIONS.
- SC-14 PROVIDE ONE (1)-1" CONDUIT BETWEEN EACH LANDSCAPE-STYLE SPEAKER LOCATION FOR SHIELDED AUDIO CABLING. LANDSCAPE-STYLE SPEAKERS ARE TYPICALLY LOCATED IN COURTYARDS OR AROUND THE POOL AREA. COORDINATE EXACT SPEAKER LOCATIONS & UNDERGROUND CONDUIT ROUTINGS WITH LANDSCAPING TO AVOID OBSTRUCTIONS.
- SC-15 PROVIDE MONITORING STATION FOR IP SURVEILLANCE CAMERA SYSTEM. MONITORING STATION SHALL BE COMPRISED OF TWO (2) LED MONITORS, NETWORKED PC, KEYBOARD, MOUSE, REQUIRED SYSTEM SOFTWARE, ETC. LOCATE MONITORING STATION IN THE LEASING/MANAGEMENT OFFICE. NETWORK VIDEO RECORDER (NVR) SHALL BE LOCATED IN THE CLUBHOUSE MDF ROOM.
- SC-16 PROVIDE MONITORING/MANAGEMENT STATION FOR ACCESS CONTROL SYSTEM FOR EACH BUILDING. MONITORING STATION SHALL BE COMPRISED OF LED MONITOR, NETWORKED PC, KEYBOARD, MOUSE, FOB ENCODER, REQUIRED SYSTEM SOFTWARE, ETC. LOCATE MONITORING STATION IN THE LEASING/MANAGEMENT OFFICE.
- SC-17 PROVIDE ADD-ALTERNATE PRICING FOR COMPLETE INTRUSION DETECTION SYSTEMS AT ALL GROUND LEVEL UNITS, AMENITY/Common AREAS, & ADMINISTRATIVE AREAS COMPRISED OF DOOR CONTACTS, WINDOW CONTACTS, PASSIVE INFRARED SENSORS OR GLASS BREAK SENSORS, ALARM KEYPADS, HORNS, ETC. REQUIRED FOR A FULLY FUNCTIONING SYSTEM. CONFIRM WITH OWNER IF REQUIRED.
- SC-18 COORDINATE ALL TELEVISION LOCATIONS WITH ARCHITECTURAL & INTERIORS PLANS. PROVIDE INFRASTRUCTURE FOR TV/DATA OUTLETS, COMPRISED OF RUNS OF ONE (1) CAT6 DROP & ONE (1) RG-6 COAXIAL DROP IN A SINGLE FACEPLATE, AT EACH LOCATION. TELEVISIONS ARE FFBE.

GENERAL NOTES:

- G-1 COORDINATE WITH THE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS.
- G-2 EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.
- G-3 COORDINATE LOCATION OF CEILING MOUNTED EQUIPMENT WITH THE MECHANICAL AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING. LAYOUT EQUIPMENT PROVIDED SHOWN ON THE SECURITY DRAWINGS FOR SYMMETRICAL LAYOUT WITH OTHER EQUIPMENT IN OR ON THE CEILING.
- G-4 "WP" INDICATES ASSOCIATED DEVICE IS WEATHERPROOF.
- G-5 COORDINATE LOCATION OF VOICE/DATA OUTLETS WITH POWER OUTLETS. SEE TYPICAL DETAILS FOR SPACING.
- G-6 CONTRACTOR SHALL SIZE CONDUIT BASED ON N.E.C. AND WIRING MANUFACTURER USED AND ON COMBINATION OF CIRCUITS IN CONDUIT. CONDUIT SIZE SHOWN ON DRAWINGS IS MINIMUM SIZE.
- G-7 MINIMUM SIZE CONDUIT, ALL SYSTEMS 3/4", UNLESS OTHERWISE NOTED.
- G-8 POWER CIRCUITS FOR THE SECURITY EQUIPMENT ARE SHOWN ON THE ELECTRICAL PANEL BOARD SCHEDULES & DRAWINGS. CONDUIT, WIRING & TERMINATIONS AT THE DEVICES ARE BY THE ELECTRICAL CONTRACTOR. TERMINATIONS AT THE POWER PANEL BOARD ARE BY THE ELECTRICAL CONTRACTOR.
- G-9 COORDINATE ALL SYSTEMS WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
- G-10 ALL CONDUIT SHALL BE CONCEALED WITHIN THE CEILING, SLAB OR WALLS. NO EXPOSED/SURFACE CONDUIT IS ACCEPTABLE, UNLESS OTHERWISE APPROVED. CONDUIT MAY BE EXPOSED IN THE TELECOM EQUIPMENT ROOMS ONLY.
- G-11 MOUNT ALL DEVICES IN HANDICAP AREAS IN ACCORDANCE WITH ADA STANDARDS. SEE NOTES A-1 & A-2.
- G-12 ALL COAXIAL CABLE HOME RUNS 150' OR LESS FROM ANY LOCATION TO ANY TELECOM ROOM SHALL BE RG6 COAXIAL CABLE.
- G-13 ALL COAXIAL CABLE HOME RUNS OVER 150' & BELOW 295' FROM ANY LOCATION TO ANY TELECOM ROOM SHALL BE RG11 COAXIAL CABLE.
- G-14 ALL CAT6 CABLE HOME RUNS FROM ANY LOCATION SHALL NOT EXCEED 295' TO ANY TELECOM ROOM.
- G-15 ANY CABLING ROUTED IN PLENUM SPACE SHALL BE PLENUM-RATED CABLE.
- G-16 TELECOM DEVICE OUTLETS SHALL NOT BE LOCATED "BACK TO BACK" IN WALLS DIVIDING ROOMS AND/OR UNITS.
- G-17 MOUNTING HEIGHTS SHOWN ARE TO THE CENTER OF THE OUTLET OR DEVICE, UNLESS OTHERWISE NOTED.
- G-18 ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
- G-19 CONNECT POWER DIRECTLY TO THE EQUIPMENT DESIGNED TO RECEIVE DIRECT CONNECTION. PROVIDE RECEPTACLE COMPATIBLE WITH EQUIPMENT DESIGNED FOR PLUG-IN POWER CONNECTION.

EXISTING CONDITIONS NOTES:

- E-1 THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT DIMENSIONS OF ALL CONDUIT & WIRE FOR THE SECURITY WORK. THE SECURITY CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS FOR ALL HOMERUNS TO THE NEW & EXISTING EQUIPMENT.
- E-2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND CONDUITS. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO COST TO THE OWNER.

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GRANT STREET APARTMENTS  
290 E. 17th Ave, Denver, CO 80203

# A Development of Abacus Capital Group

JOB NO.: 22035	
X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

**LEGENDS & NOTES**  
**- TELECOM**

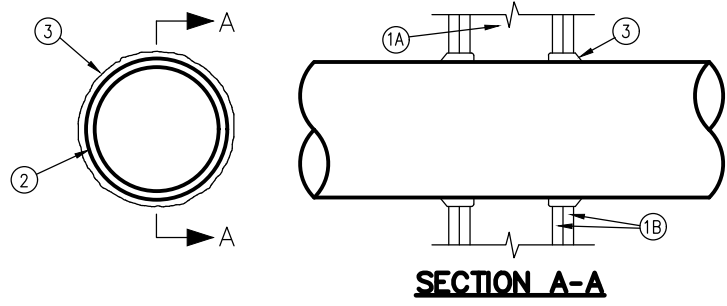
DRAWING NO.

T0.00

## SYSTEM NO. WL1001

(FORMERLY SYSTEM NO. 147)

**F RATINGS— 1, 2, 3, AND 4 HR (SEE ITEMS 2 AND 3)**  
**T RATINGS — 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)**  
**L RATING AT AMBIENT — LESS THAN 1 CFM/SQ. FT.**  
**L RATING AT 400 F — LESS THAN 1 CFM/ SQ. FT.**



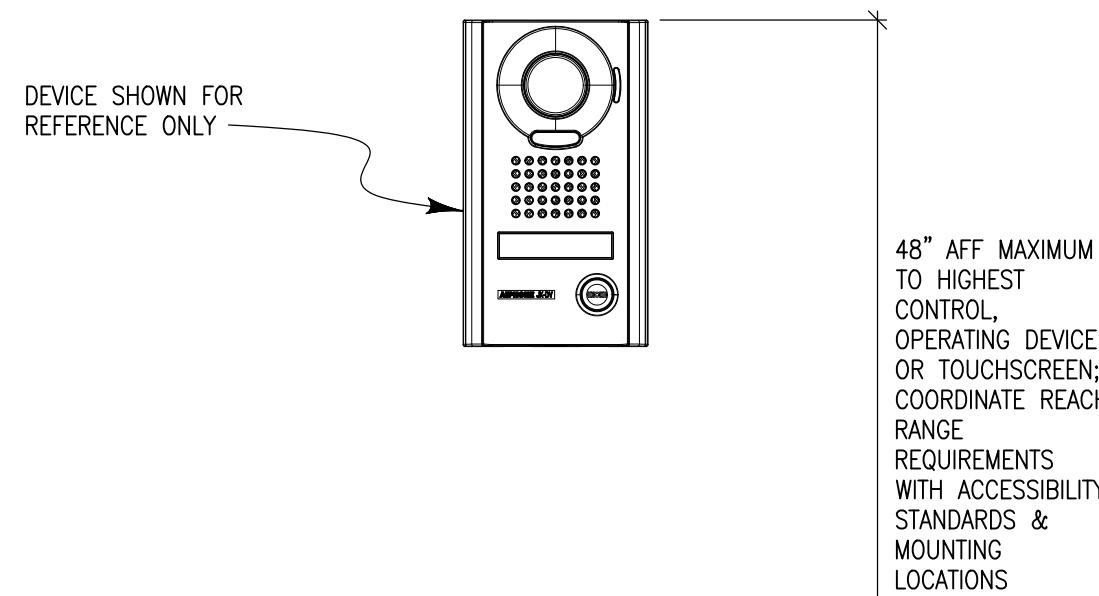
- WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR. FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
  - STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR. FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM. 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
  - WALLBOARD, GYPSUM\* — NOM 1/2 OR 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 U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM. OF OPENING IS 13-1/2 IN.
- CONDUIT — 4 IN. DIAM. (OR SMALLER) MULTI-CONDUCTOR CABLE, CABLE TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL, VOID OR CAVITY MATERIAL\* — CAULK — CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN CABLE AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIAM. BEAD OF CAULK APPLIED TO CABLE AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX. CABLE DIAM., IN.	ANNULAR SPACE, IN.	F RATING, HR.	T RATING, HR.
1	0 to 3/16	1 or 2	1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/4	1 or 2	0
4	0 to 1-1/2	1 or 2	0

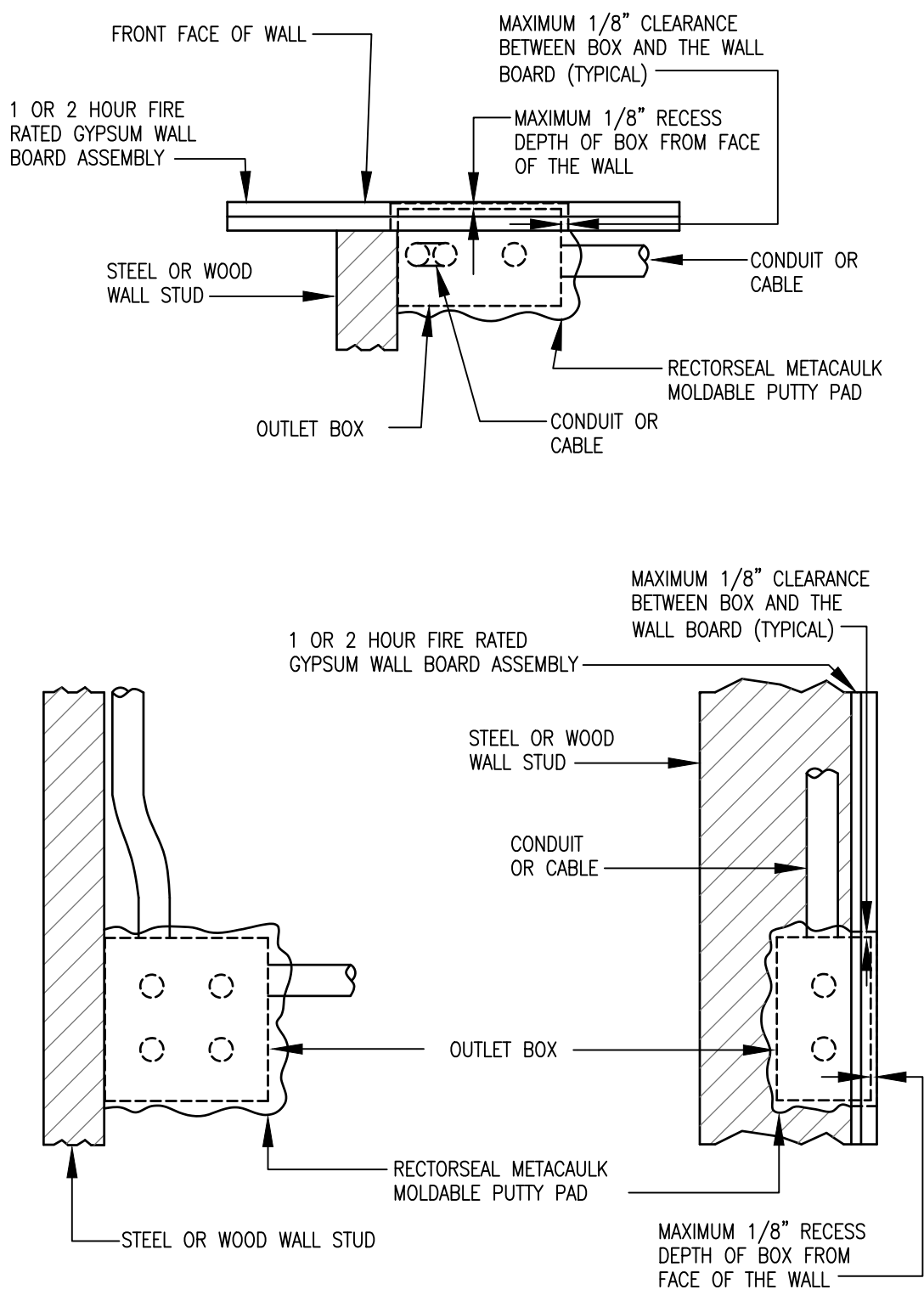
#0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN. THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR. RATED WALLS AND 1-1/4 IN. FOR 2 HR. RATED WALLS.

MINNESOTA MINING & MFG. CO. — CP 25WB+ \*BEARING THE UL CLASSIFICATION MARKING

### 1 CABLE PENETRATION AT RATED WALL



### 6 TYPICAL ADA HANDICAP MOUNTING HEIGHT

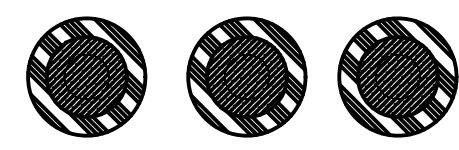
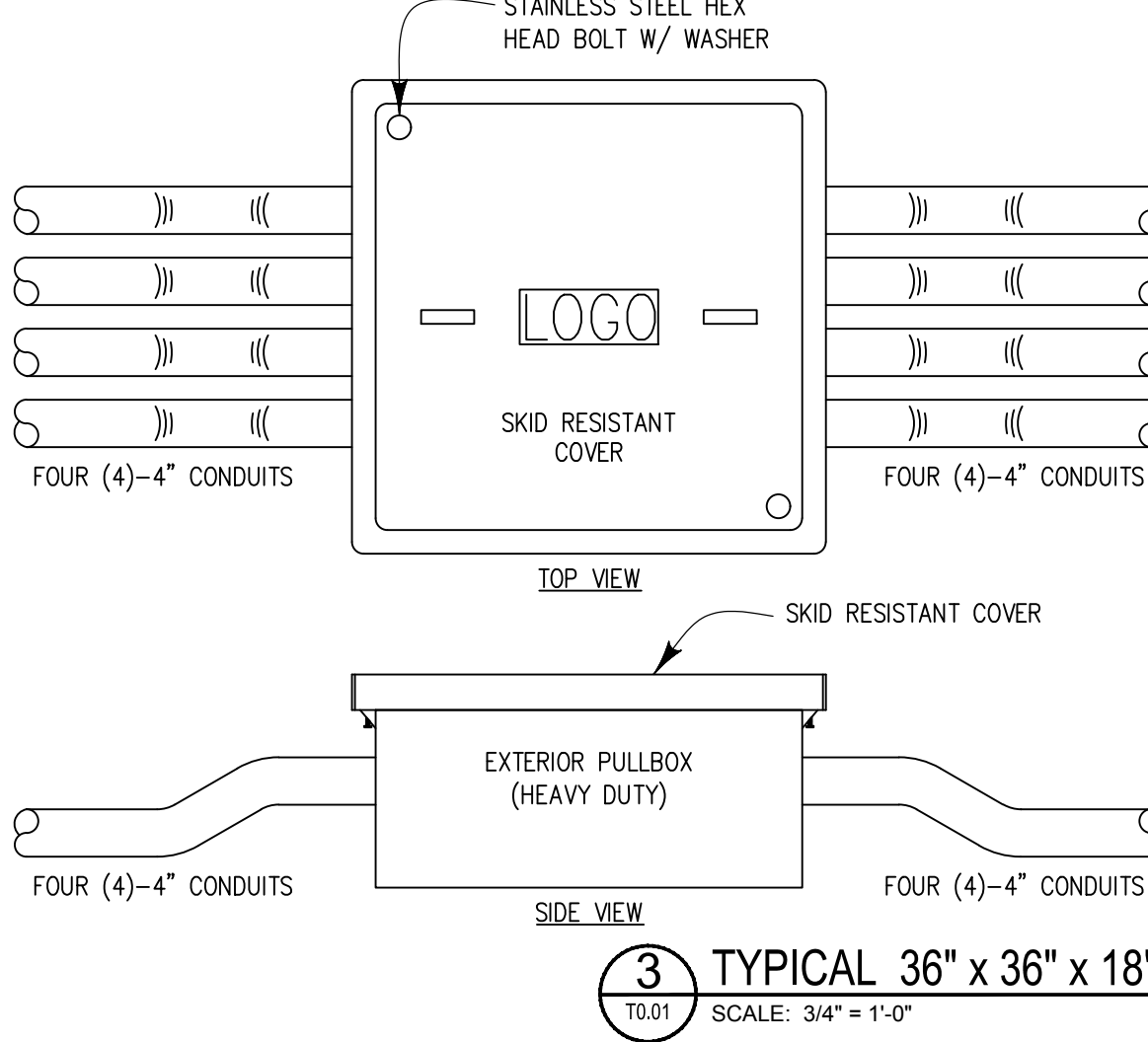


WALL OPENING PROTECTION SYSTEM FOR 4"x4" MAXIMUM SIZE OUTLET BOXES MOUNTED:

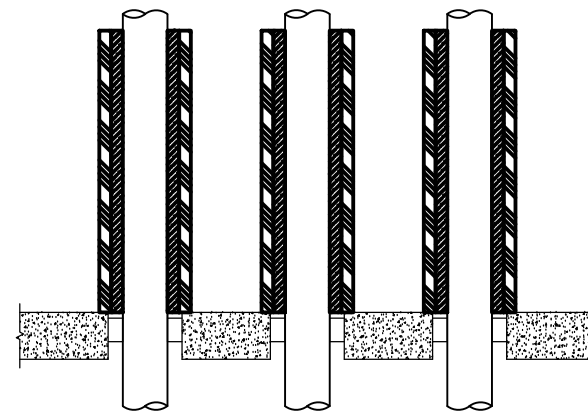
ON OPPOSITE SIDES OF A WALL LESS THAN 24" APART, OR WHERE MORE THAN FIVE (5) OUTLET BOXES ARE INSTALLED PER 100 SQUARE FEET OF A WALL SURFACE ON THE SAME SIDE, BOXES SHALL NOT BE INSTALLED BACK TO BACK.

1 OR 2 HOUR RATING.

### 2 WALL OPENING PROTECTION - FIRE RATED WALL



PLAN VIEW



SECTION VIEW

PENETRATIONS OF RATED FLOOR ASSEMBLIES SHALL COMPLY WITH IBC REQUIREMENTS FOR F- AND T-RATINGS. T-RATINGS ARE NOT REQUIRED FOR PENETRANTS CONCEALED WITHIN A WALL CAVITY.

THIS DRAWING INDICATES METHOD(S) FOR T-RATINGS OF METALLIC PENETRANTS, WHERE THE ROOM (OR AREA) ABOVE OR BELOW THE FLOOR DOES NOT HAVE WALLS AND CEILING WITH AN F-RATING THAT MEETS OR EXCEEDS THAT FOR THE FLOOR. LISTED FIRESTOPPING MATERIALS SHALL BE USED TO SATISFY F-RATING REQUIREMENTS.

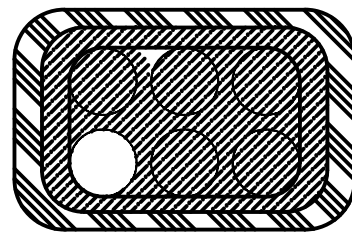
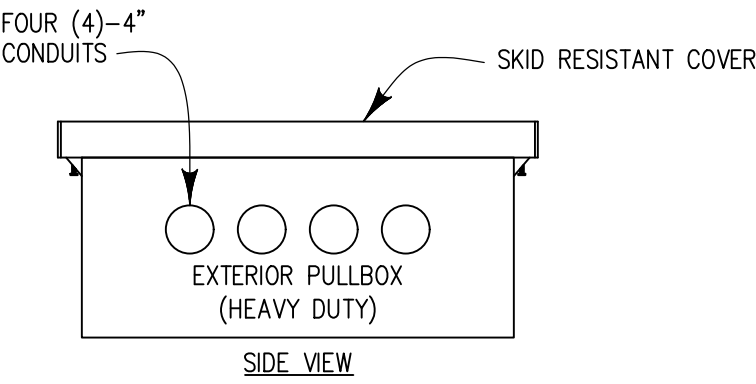
WHERE DISTANCE BETWEEN METALLIC CONDUITS EXCEEDS 4", INSTALL FIRE PROTECTIVE WRAP AROUND CONDUIT GROUP TO A MINIMUM DISTANCE OF 48" ABOVE OR BELOW THE FLOOR ASSEMBLY. USE 2 LAYERS FOR 2-HOUR RATED FLOOR, 1 LAYER FOR 1-HOUR RATED FLOOR. WRAP SHALL BE THERMAL CERAMICS FIREMASTER FASTWRAP XL OR APPROVED EQUAL.

### 4 T-RATINGS OF METALLIC PENETRANTS CONDUIT WRAP

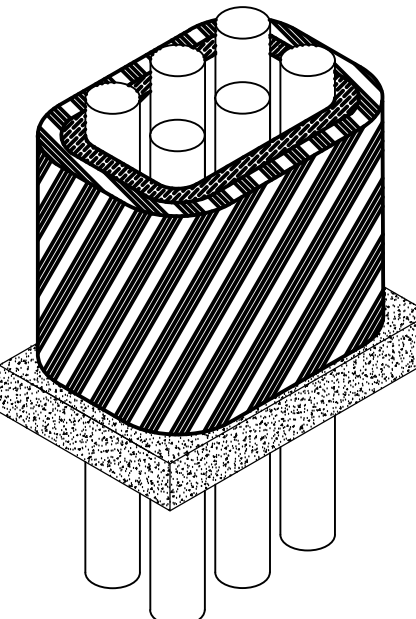
SCALE: NONE

### PULLBOX NOTES:

- BOX SHALL BE NONMETALLIC, RESISTANCE TO SUNLIGHT AND FREEZING.
- DESIGN LOAD OF 8,000 POUNDS OVER 10" SQUARE WITH A MIN. TEST LOAD OF 12,000 POUNDS.
- SYSTEM CABLES SHALL BE LAID IN PLASTIC TRAY WITH LID.
- WRITE SYSTEM CABLES IN INDELIBLE INK ON THE LID OF THE PLASTIC TRAY.
- BOLTS TO FASTEN THE LID SHALL BE STAINLESS STEEL, TAMPERPROOF.
- SEAL ALL PVC CONDUITS ENTERING THE BOX, AFTER CABLES HAVE BEEN INSTALLED.
- TOP OF PULL BOX MUST BE AT LEAST 6" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.
- PULL BOX SHALL BE QUAZITE OR APPROVED EQUAL.



PLAN VIEW



SECTION VIEW

PENETRATIONS OF RATED FLOOR ASSEMBLIES SHALL COMPLY WITH IBC REQUIREMENTS FOR F- AND T-RATINGS. T-RATINGS ARE NOT REQUIRED FOR PENETRANTS CONCEALED WITHIN A WALL CAVITY.

THIS DRAWING INDICATES METHOD(S) FOR T-RATINGS OF METALLIC PENETRANTS, WHERE THE ROOM (OR AREA) ABOVE OR BELOW THE FLOOR DOES NOT HAVE WALLS AND CEILING WITH AN F-RATING THAT MEETS OR EXCEEDS THAT FOR THE FLOOR. LISTED FIRESTOPPING MATERIALS SHALL BE USED TO SATISFY F-RATING REQUIREMENTS.

WHERE DISTANCE BETWEEN METALLIC CONDUITS IS 4" OR LESS, INSTALL FIRE PROTECTIVE WRAP AROUND CONDUIT GROUP TO A MINIMUM DISTANCE OF 48" ABOVE OR BELOW THE FLOOR ASSEMBLY. USE 2 LAYERS FOR 2-HOUR RATED FLOOR, 1 LAYER FOR 1-HOUR RATED FLOOR. WRAP SHALL BE THERMAL CERAMICS FIREMASTER FASTWRAP XL OR APPROVED EQUAL.

### 5 T-RATINGS OF METALLIC PENETRANTS GROUPED CONDUIT WRAP

SCALE: NONE

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GRANT STREET APARTMENTS  
290 E. 17th Ave, Denver, CO 80203

A Development of  
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JOB NO:	22035
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SHEET TITLE:

COMMUNICATION  
DETAILS - TELECOM

DRAWING NO.

T0.01

JSE

Jordan & Skala Engineers

555 17th Street, Suite 700 Denver, CO 80202  
p. 303.586.2375

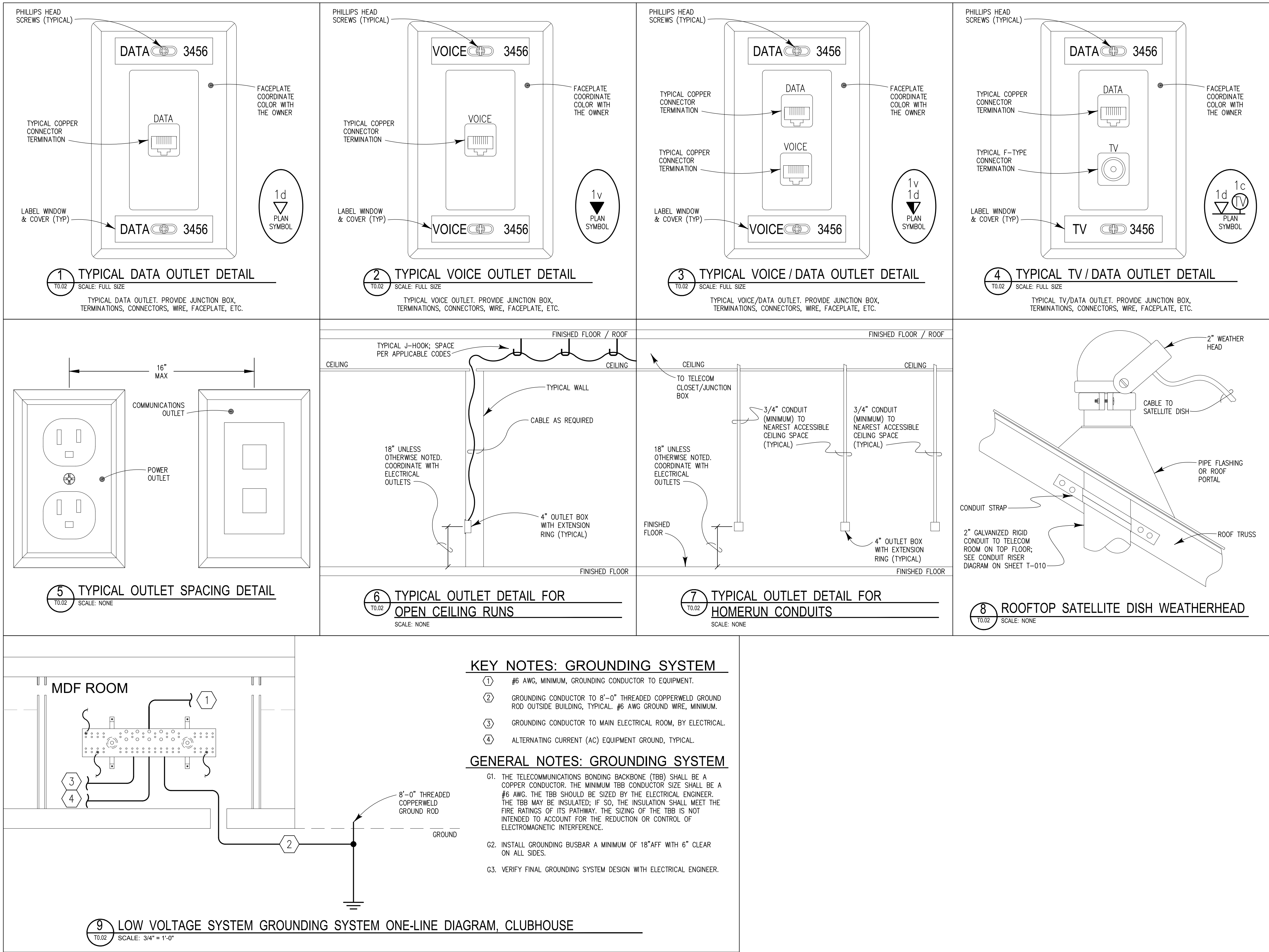
Project Number: 23080076

Drawn By: TP

Checked By: BMT



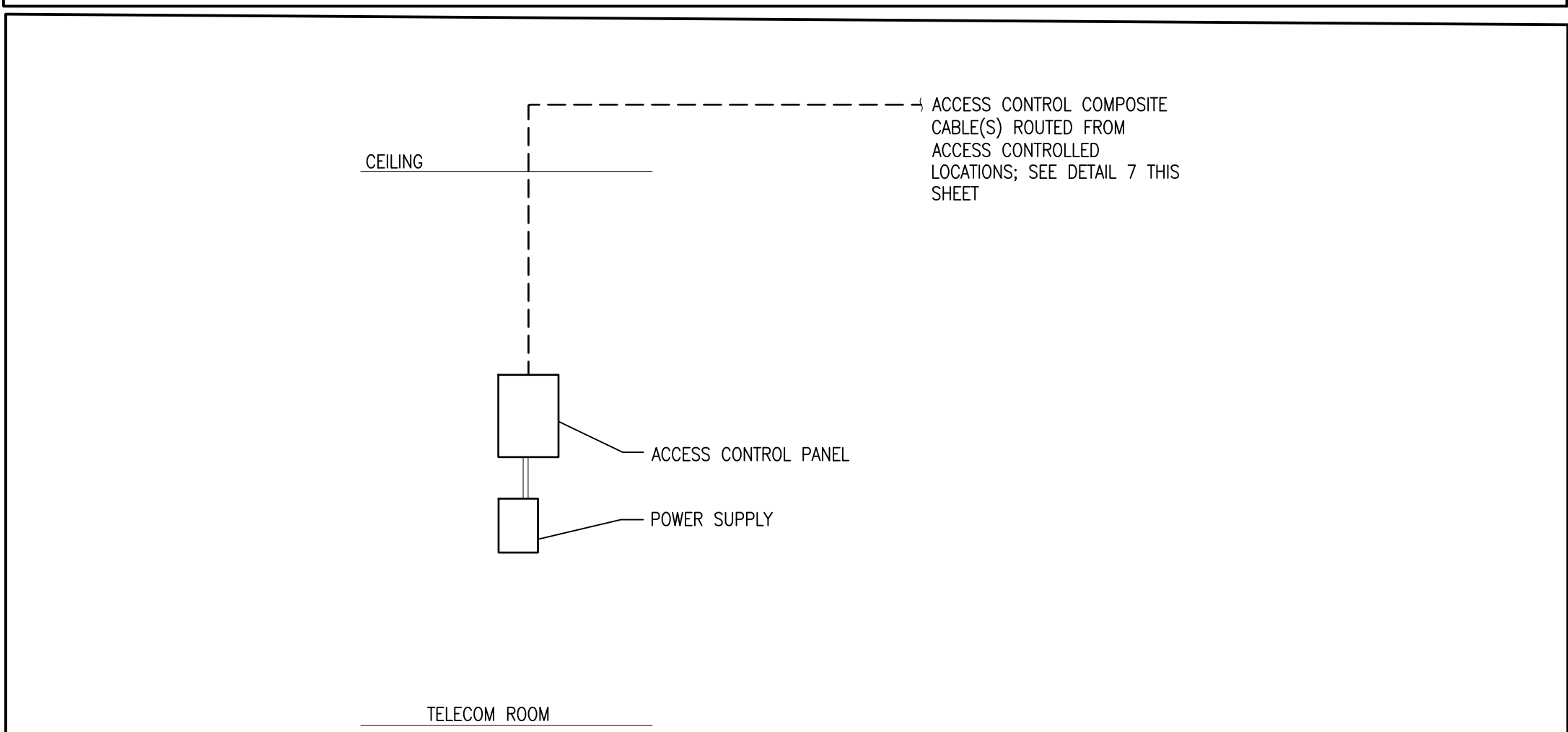
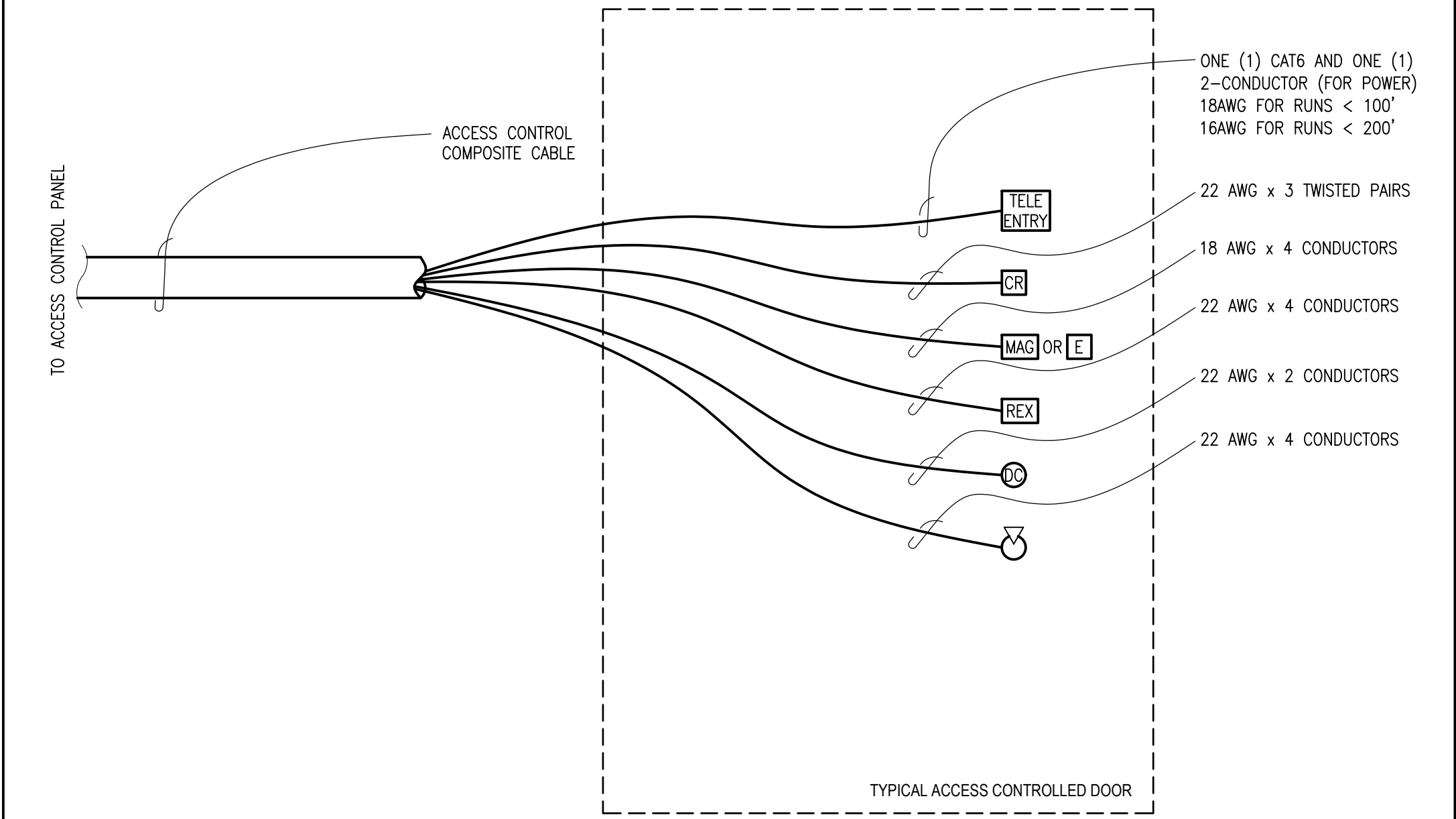
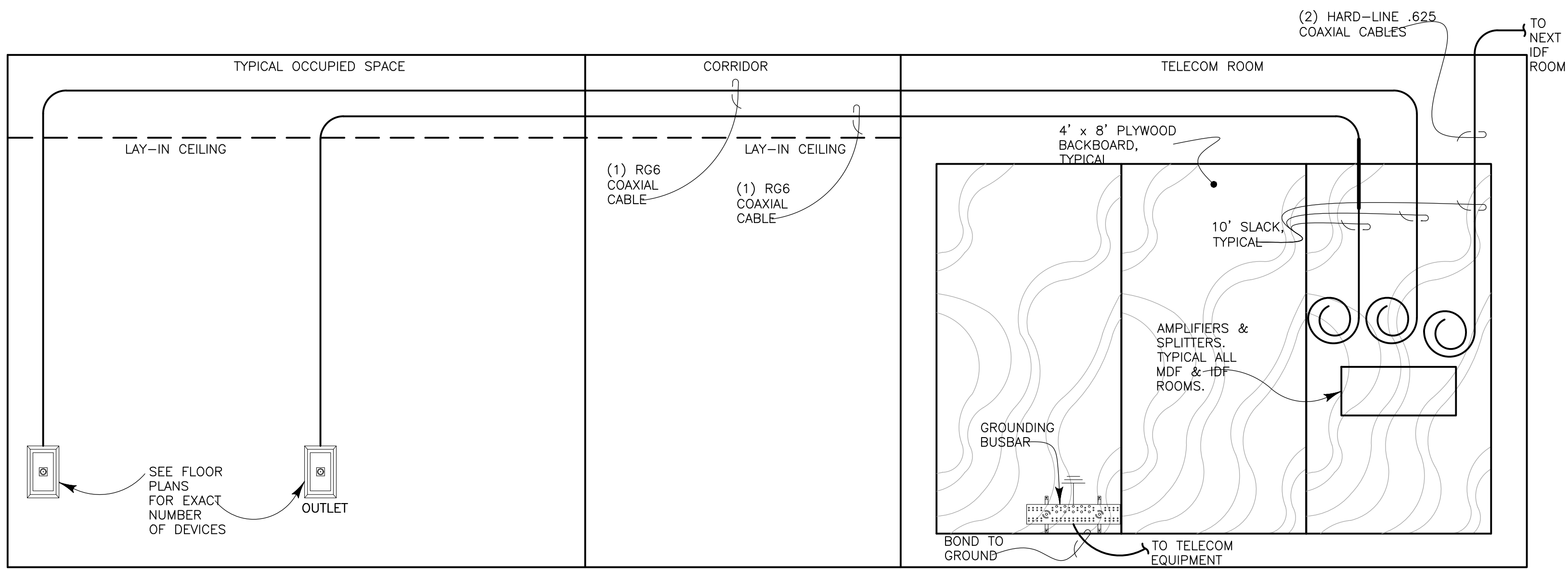
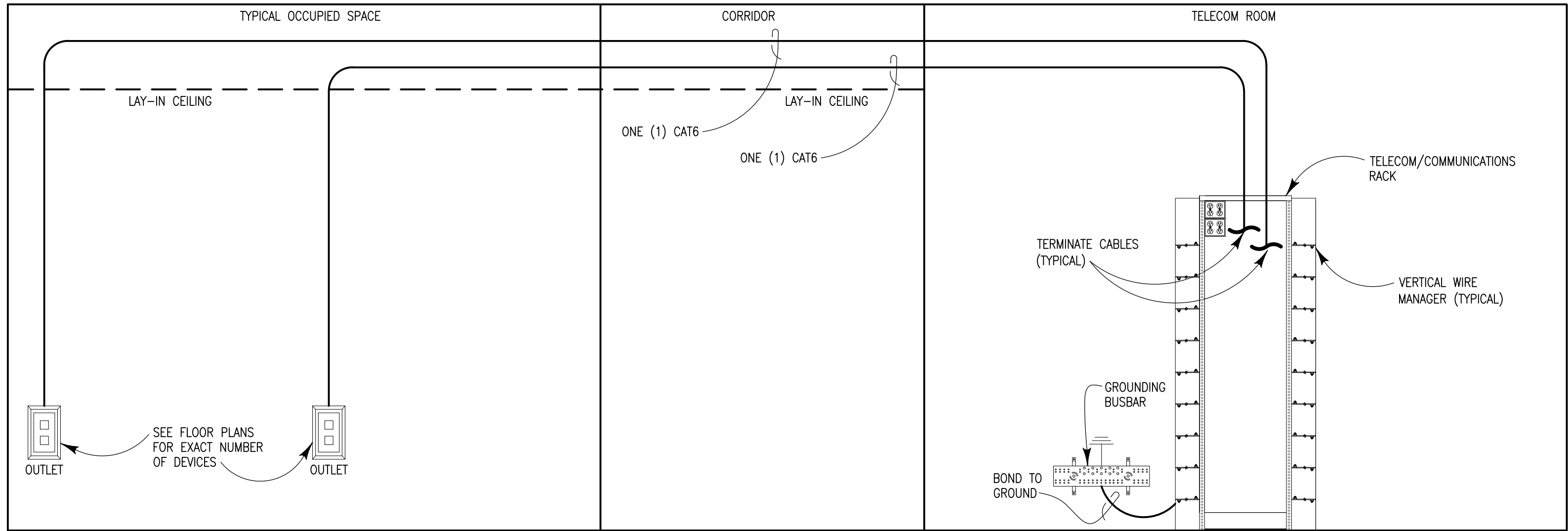
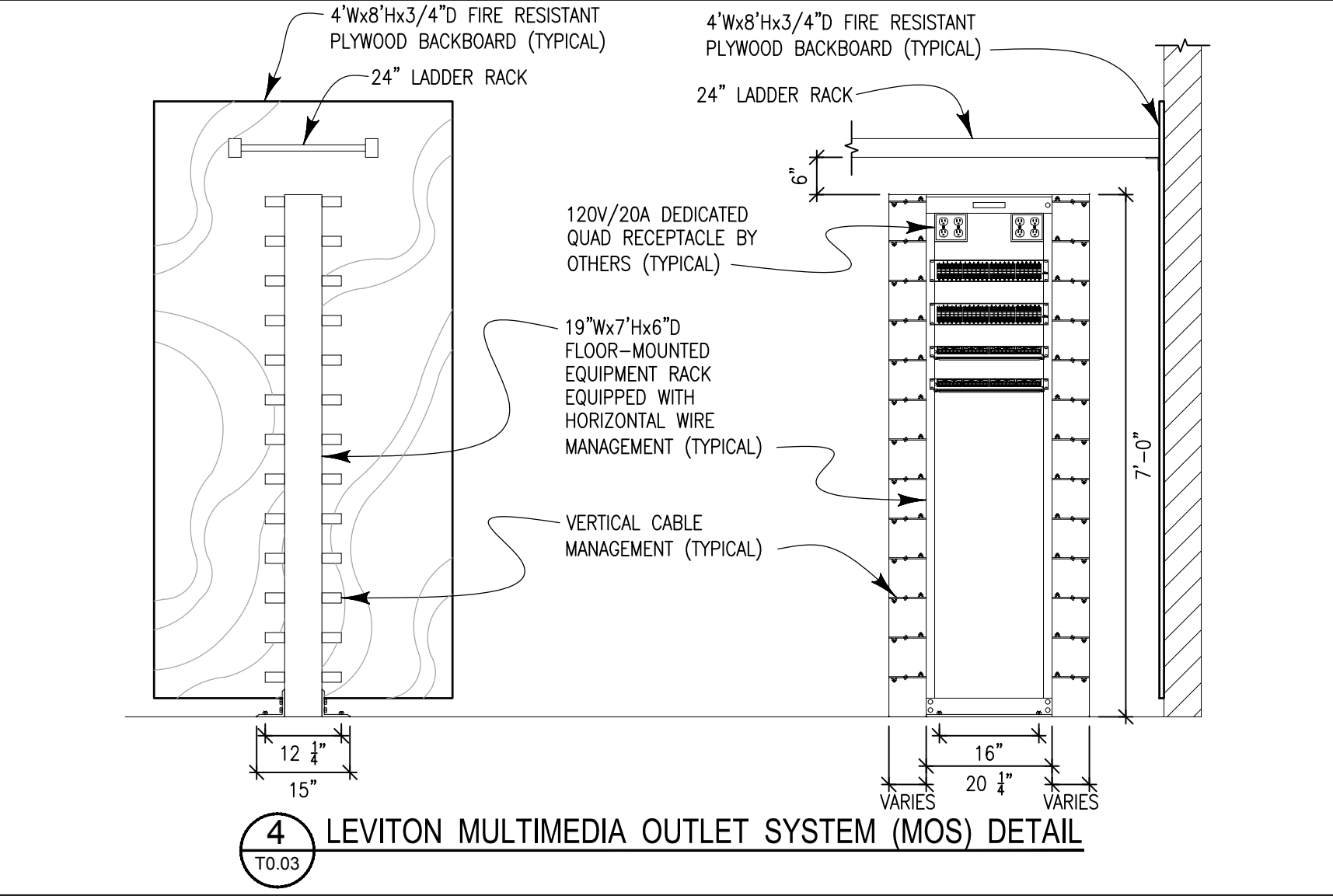
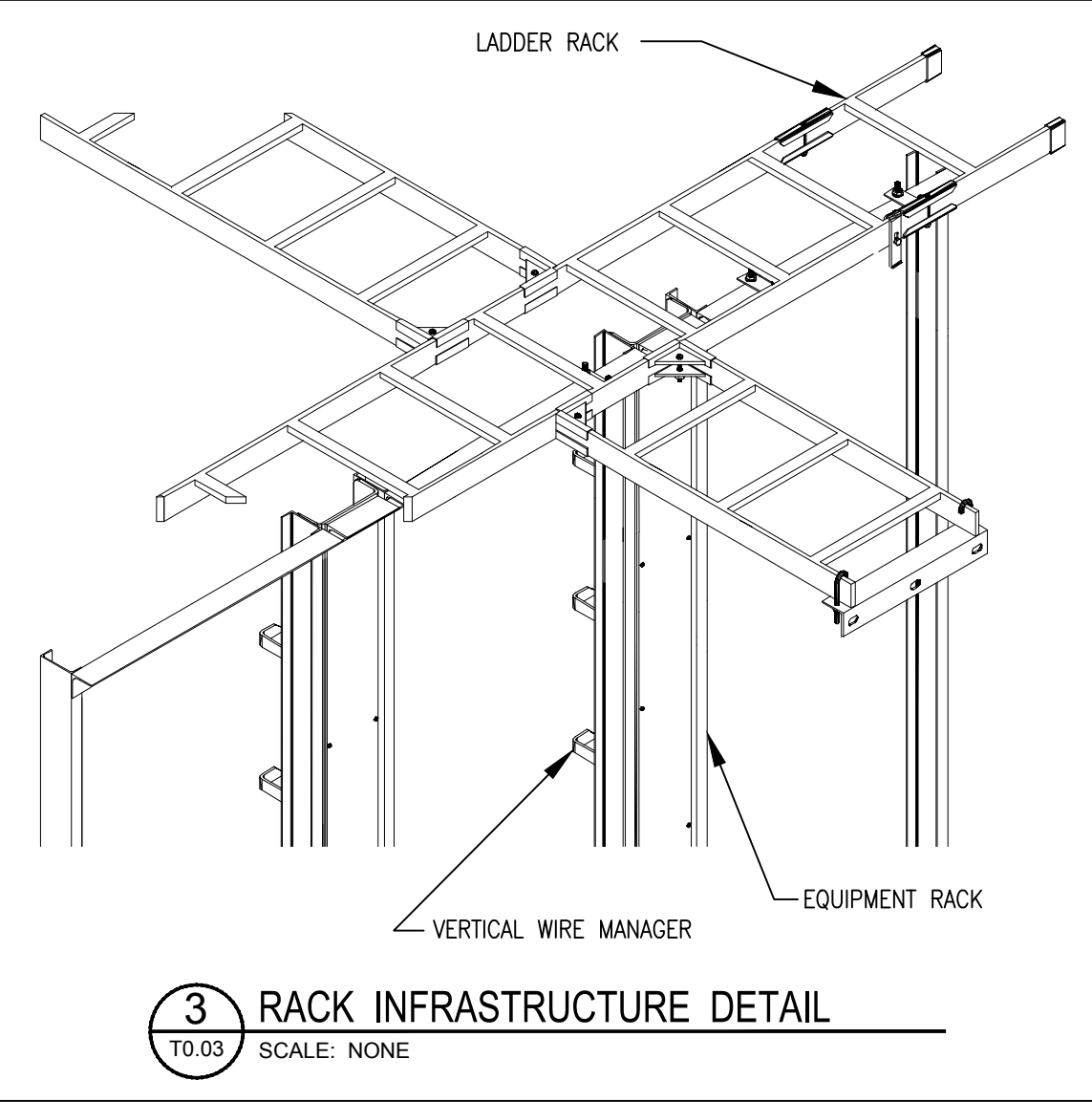
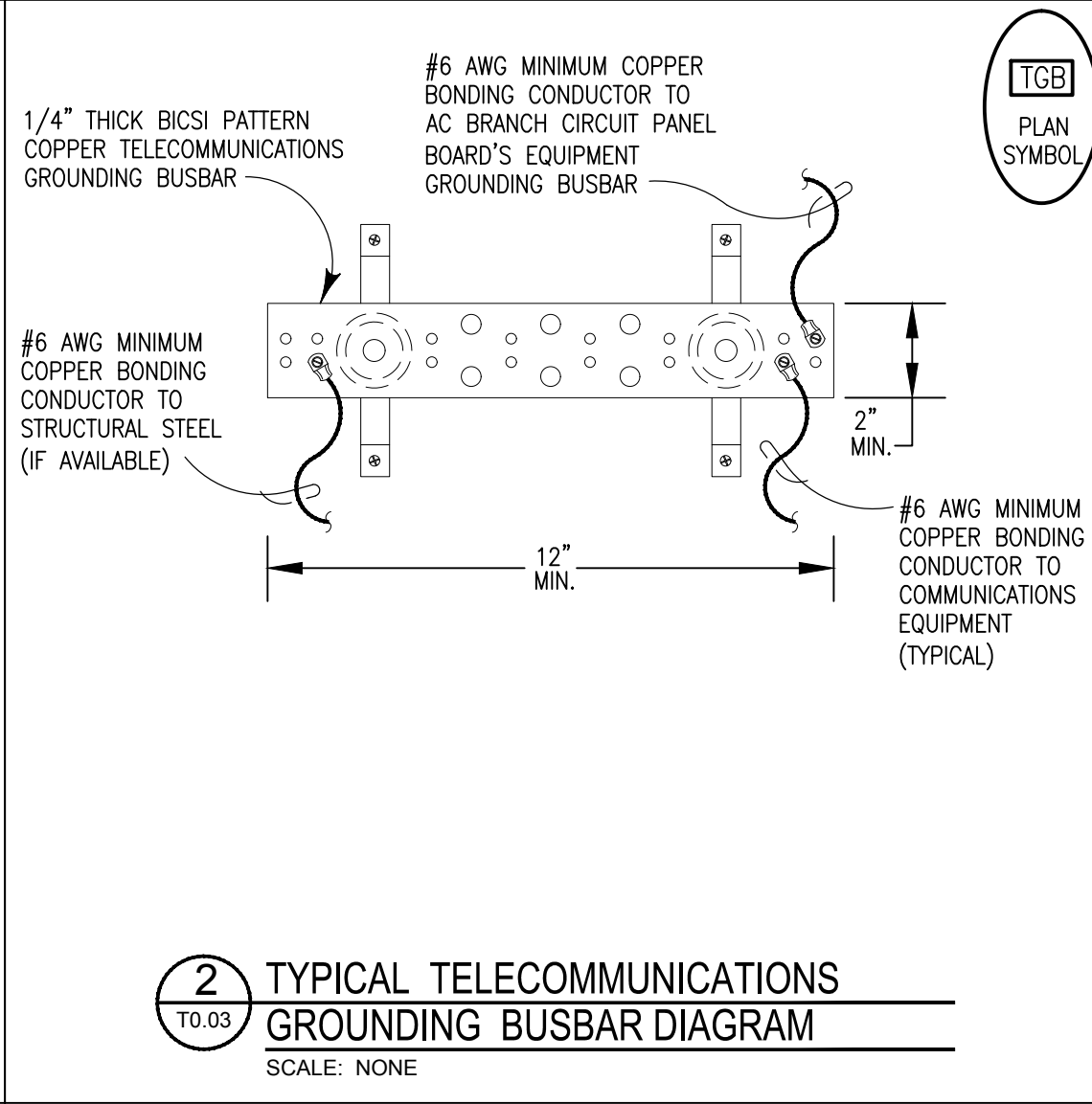
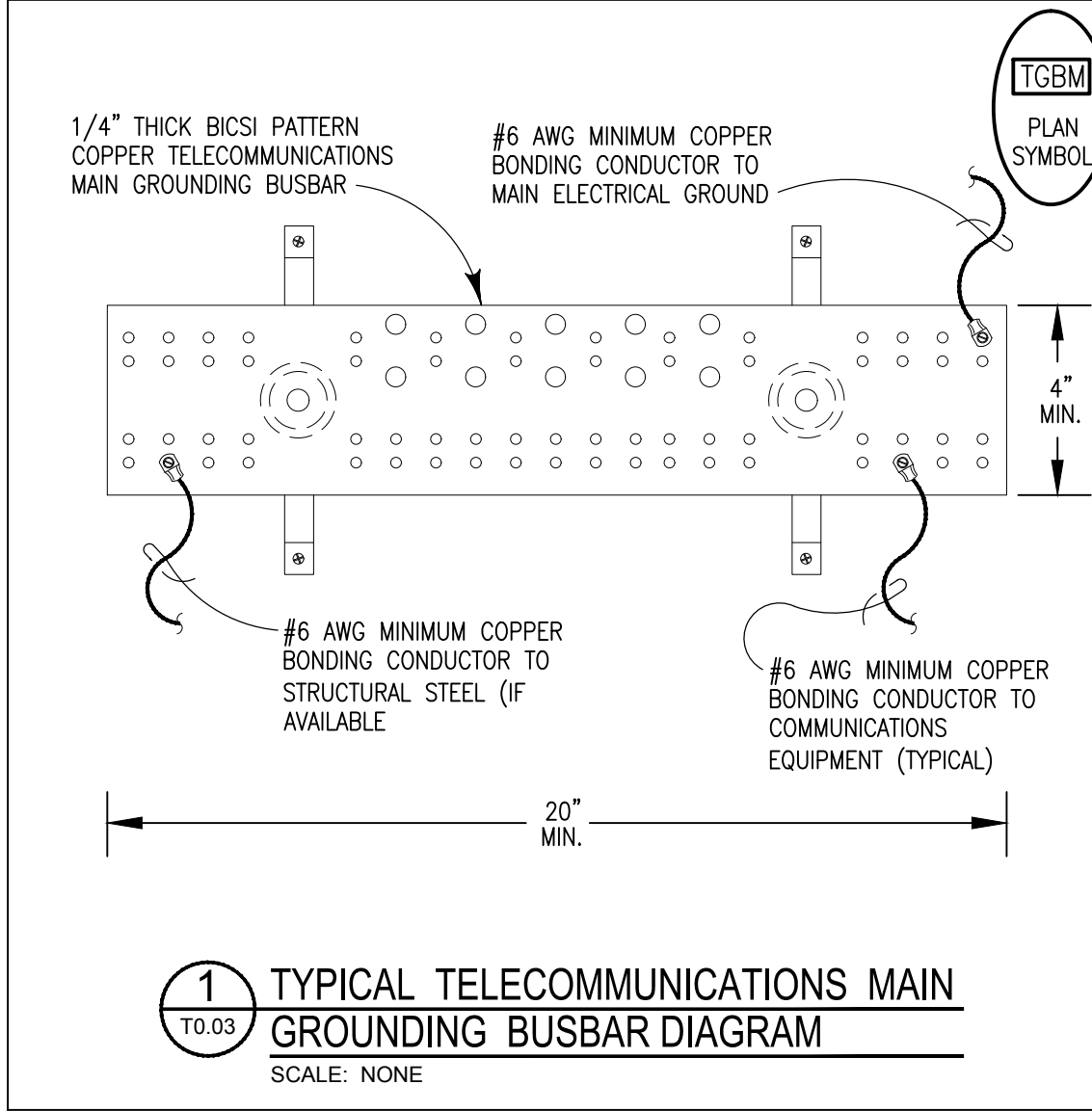
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
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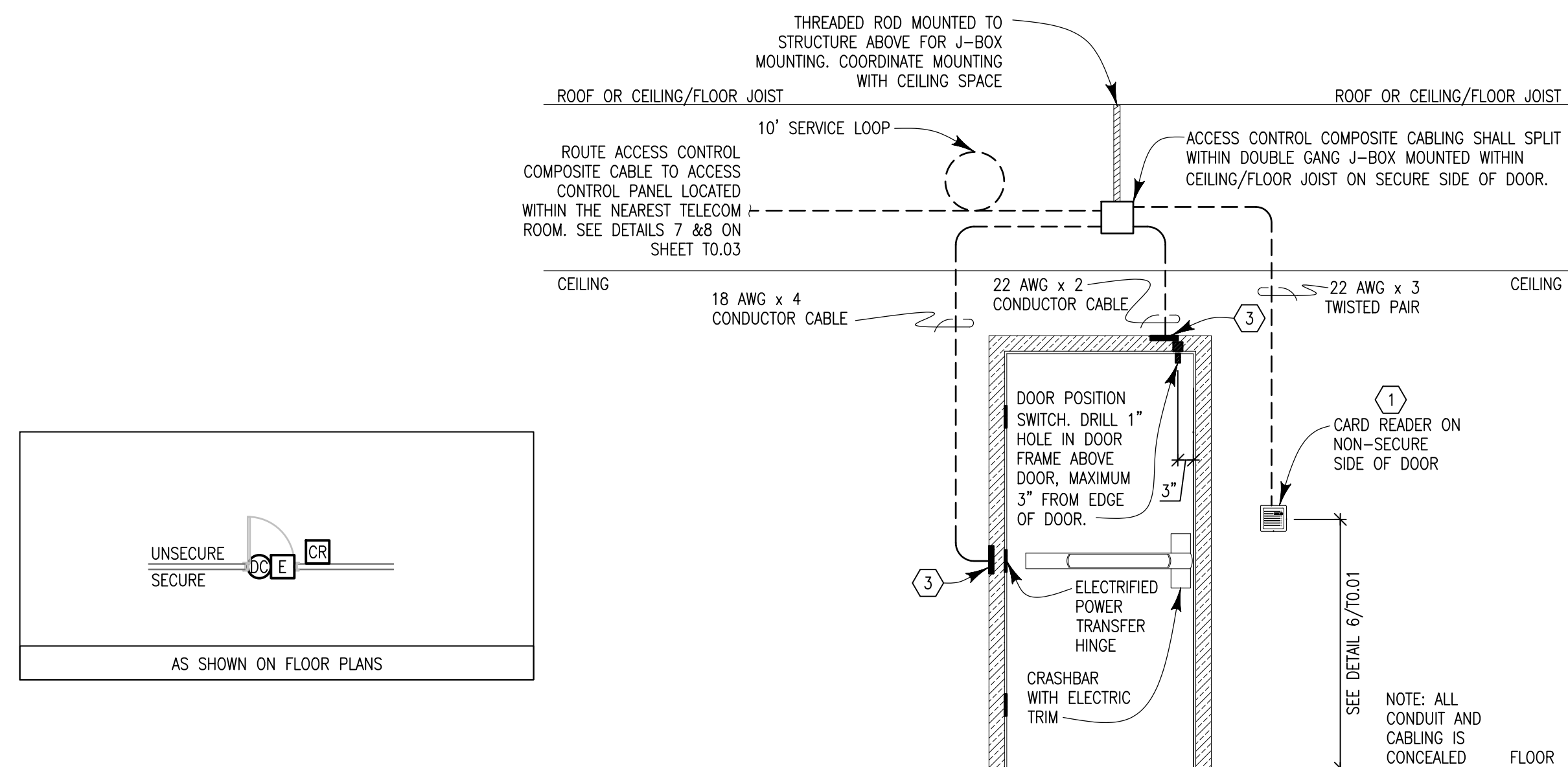
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Project Number: 23080076 Drawn By: TP Checked By: BMT

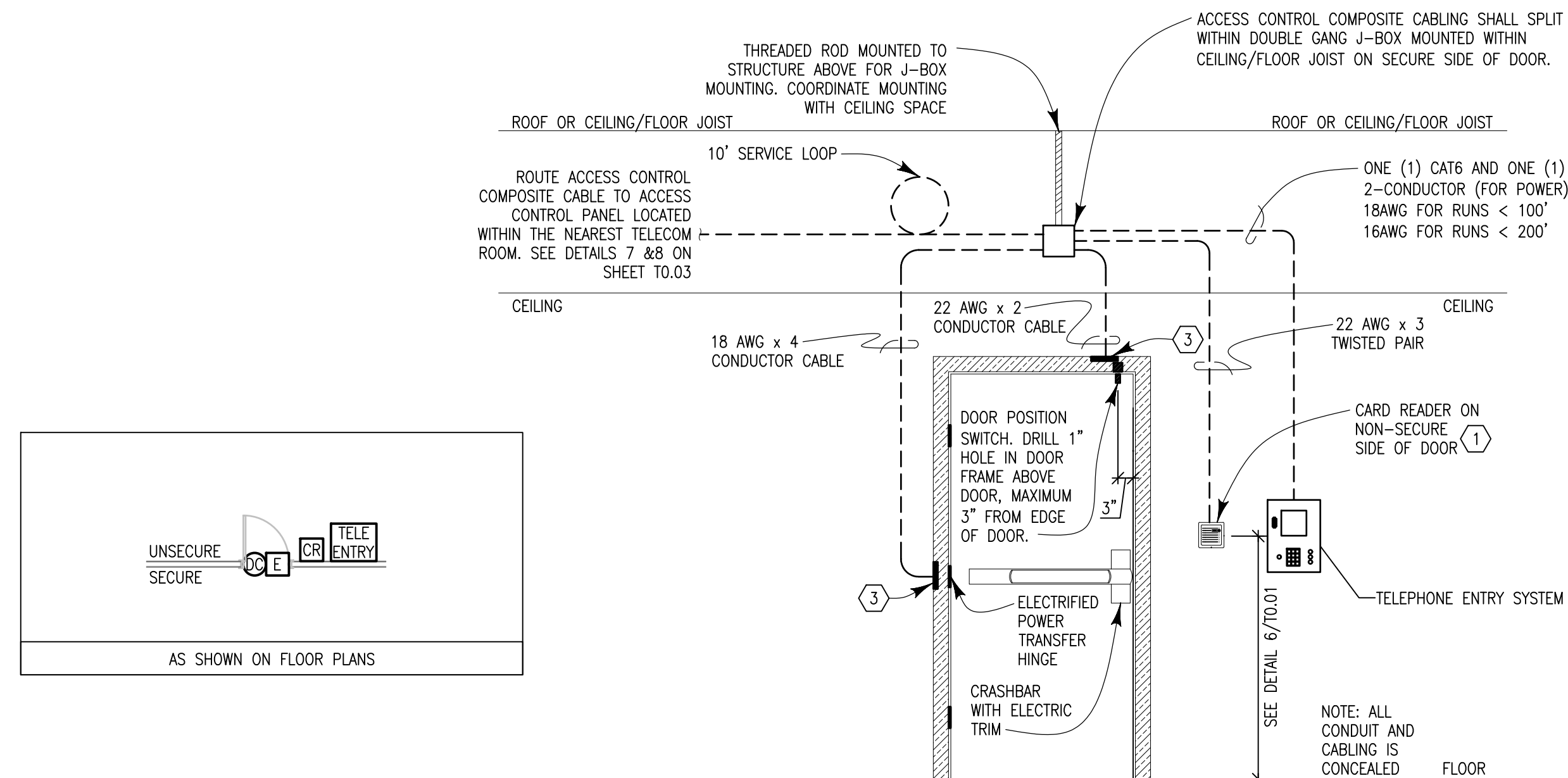
POE ACCESS CONTROL SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	HARDWIRED ROU RFID PROXIMITY CARD READER, WITH BATTERY-BACKUP IN CASE OF POWER FAILURE; SEE NOTE SC-8 ON THIS SHEET	SEE DETAIL 6/70-01
	DOOR CONTACT	
	ELECTRIC STRIKE OR ELECTRIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	MAGNETIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	PASSIVE INFRARED SENSOR (PIR)	
	REQUEST-TO-EXIT	SEE DETAIL 6/70-01
	TELEPHONE-ENTRY STATION, BUTTERFLYMX (OR EQUAL); PROVIDE COMPATIBLE PEDESTAL WHERE REQUIRED	SEE DETAIL 6/70-01

1. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DEVICES AND REQUIREMENTS FOR EACH DOOR.
2. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL CONDUIT WHERE INDICATED ON PLAN DRAWINGS.
3. INTERFACE DOOR LOCKING DEVICES WITH AUTO DOOR OPENERS, DOOR HOLD OPEN MAGNETS, AND HANDICAP ASSIST DOOR OPENERS ON SECURITY DOORS.
4. ALL MAGNETIC LOCKS SHALL BE MOUNTED ON THE SECURE SIDE OF THE DOOR, UNLESS OTHERWISE INDICATED.
5. EMERGENCY DOOR RELEASE PULL STATIONS AND PUSH-TO-EXIT BUTTONS MUST BE MOUNTED WITHIN 40" OF DOOR.
6. FOR STOREFRONT TYPE DOORS, STUB CONDUIT OR FLEX IN TO FRAME STRUCTURE AND FISH CABLE TO DEVICE.

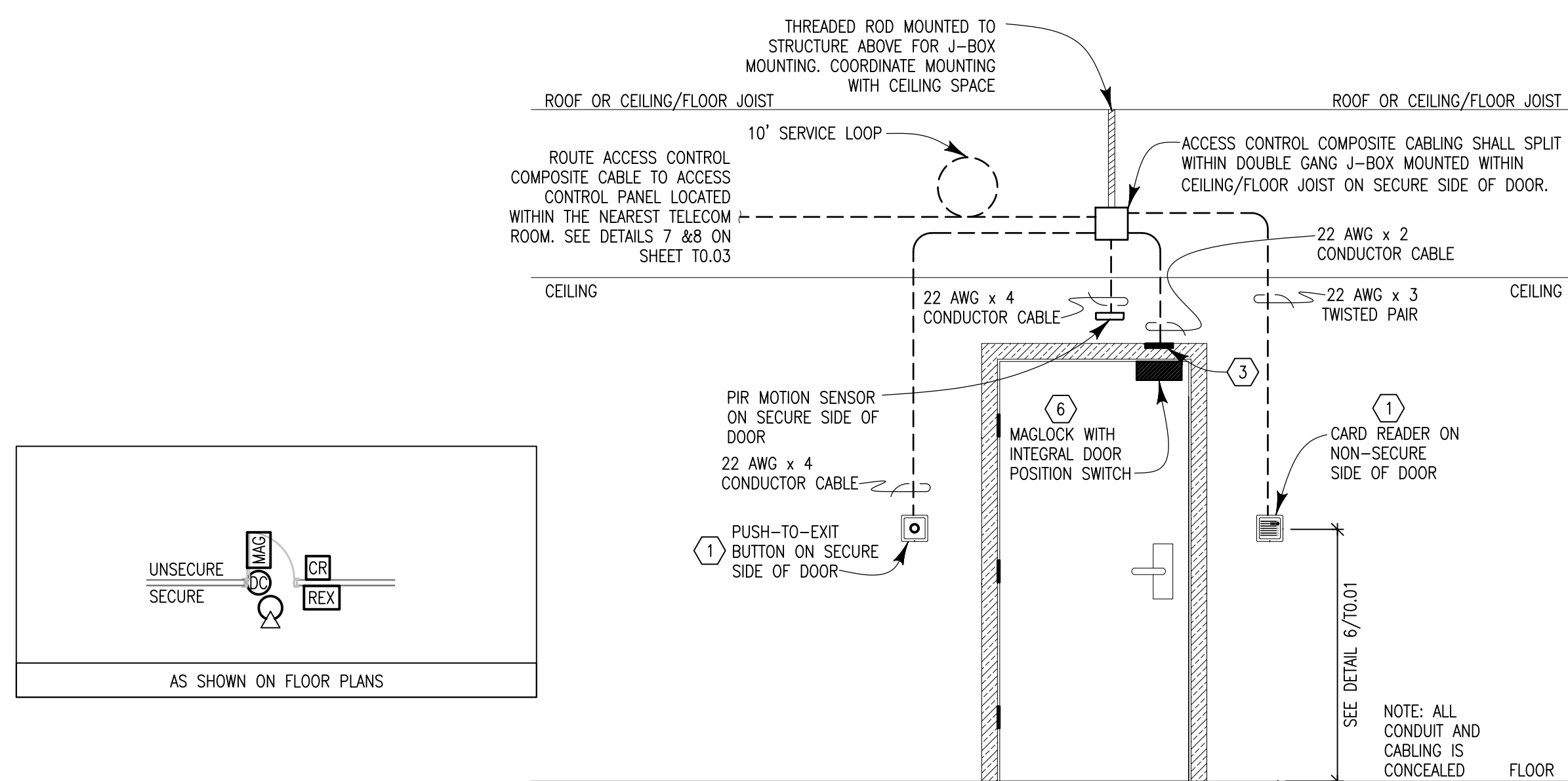
- ① DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ② 12"x12"x6" NEMA 12 HOFFMAN BOX WITH HINGED COVER SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
- ③ MORTAR GUARD SUPPLIED AND INSTALLED BY LV CONTRACTOR.
- ④ PROVIDE ADAPTER PLATE FOR MOUNTING MOTION SENSOR TO BACKBOX.
- ⑤ AT SHEETROCK WALLS, STUB CONDUIT INTO WALL TO 4" BELOW CEILING. FISH WIRE TO SURFACE-MOUNTED MOTION SENSOR.
- ⑥ PIR INSTALLED IN CEILING ON SECURE SIDE OF DOOR.



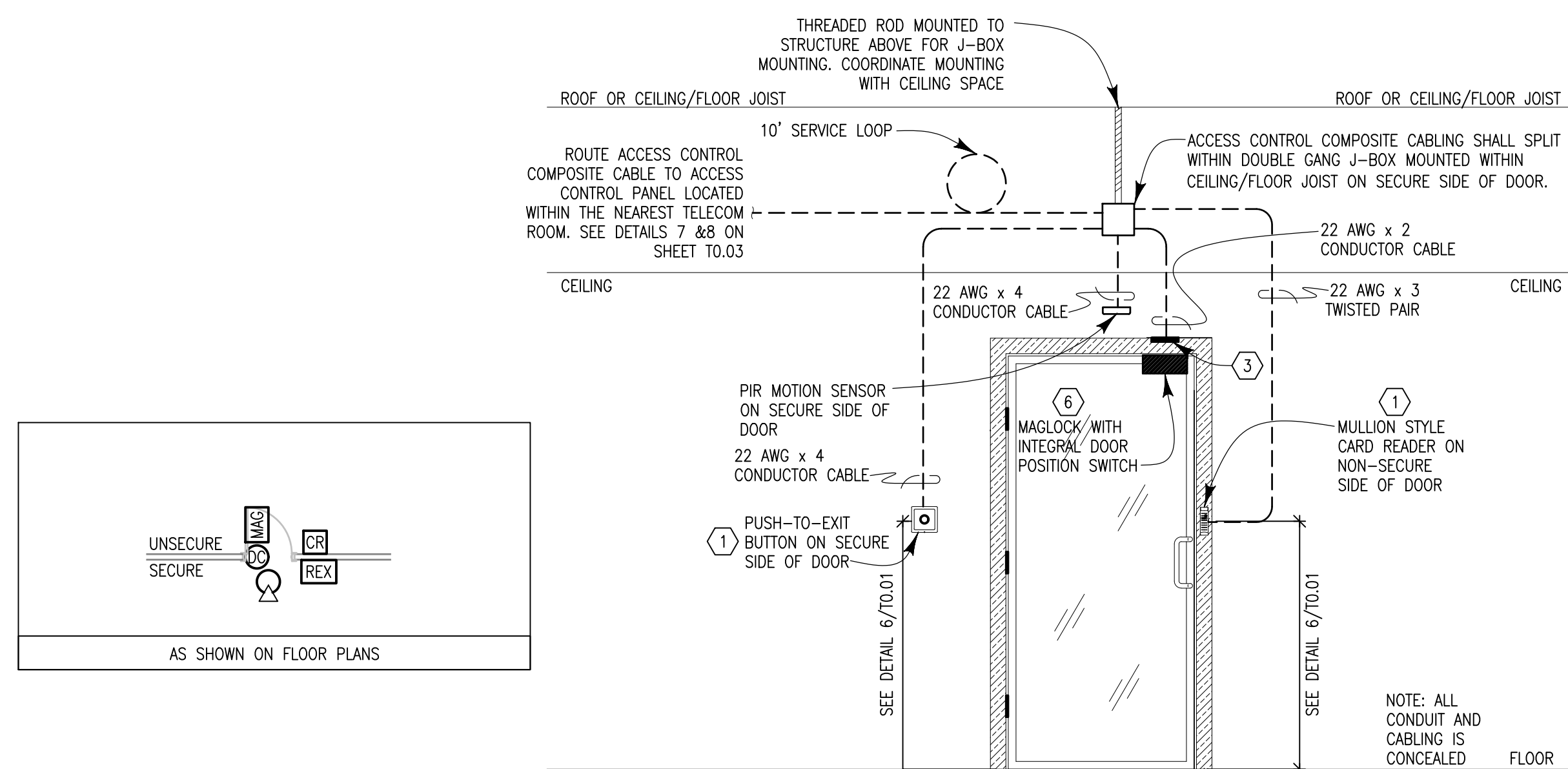
2 SINGLE DOOR WITH CARD READER & ELECTRIC CRASH BAR  
T0.04 SCALE: 1/2"=1'-0"



2 SINGLE DOOR WITH CARD READER & ELECTRIC CRASH BAR  
T0.04 SCALE: 1/2"=1'-0"



4 SINGLE DOOR WITH CARD READER & MAGLOCK  
T0.04 SCALE: 1/2"=1'-0"



6 SINGLE STOREFRONT DOOR WITH CARD READER & MAGLOCK  
T0.04 SCALE: 1/2"=1'-0"

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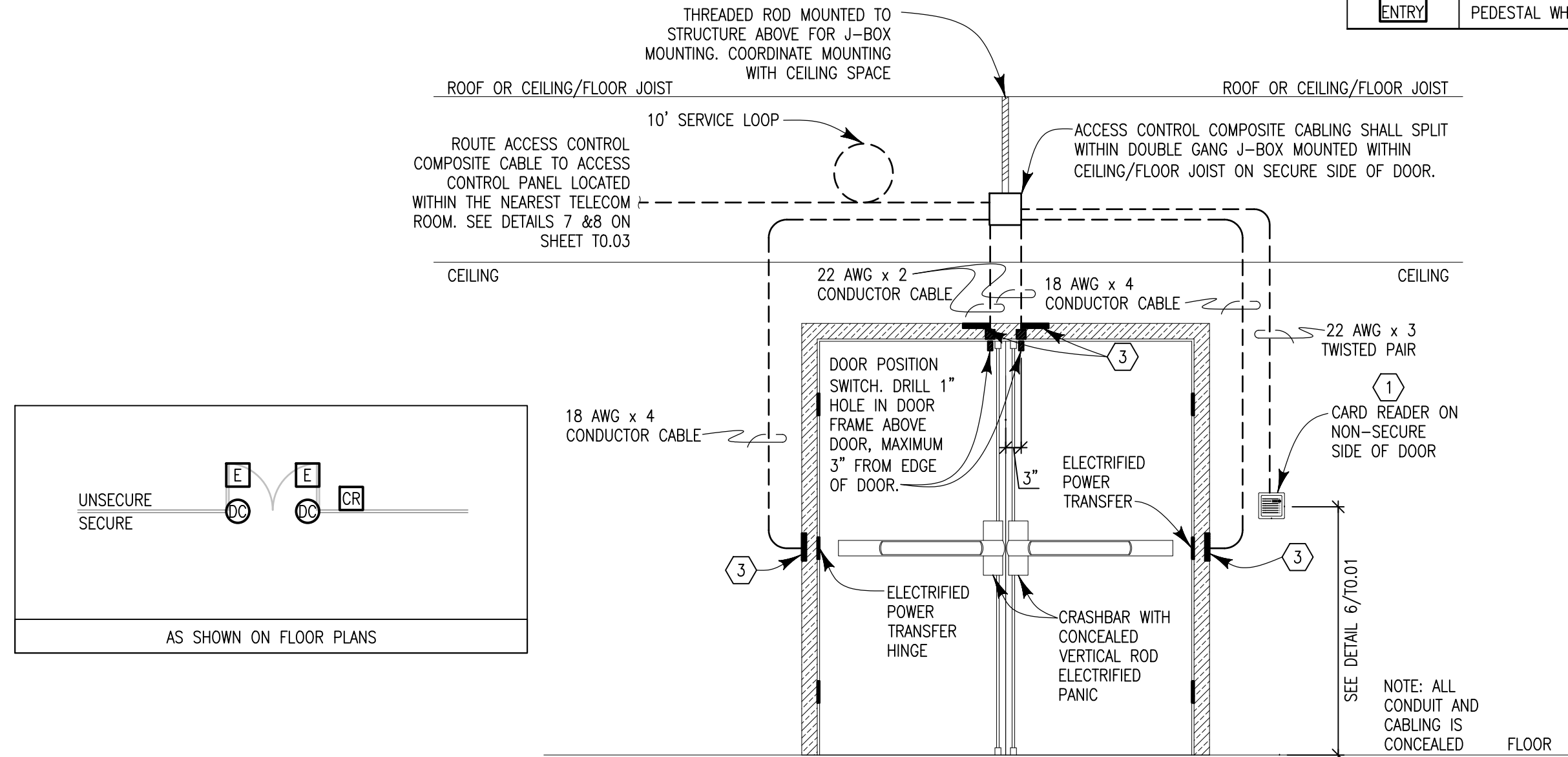
POE ACCESS CONTROL SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	HARDWIRED ROU RFID PROXIMITY CARD READER, WITH BATTERY-BACKUP IN CASE OF POWER FAILURE; SEE NOTE SC-8 ON THIS SHEET	SEE DETAIL 6/T0-01
	DOOR CONTACT	
	ELECTRIC STRIKE OR ELECTRIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	MAGNETIC DOOR LOCK; COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT EQUIPMENT	
	PASSIVE INFRARED SENSOR (PIR)	
	REQUEST-TO-EXIT	SEE DETAIL 6/T0-01
	TELEPHONE-ENTRY STATION, BUTTERFLYMX (OR EQUAL); PROVIDE COMPATIBLE PEDESTAL WHERE REQUIRED	SEE DETAIL 6/T0-01

#### GENERAL NOTES:

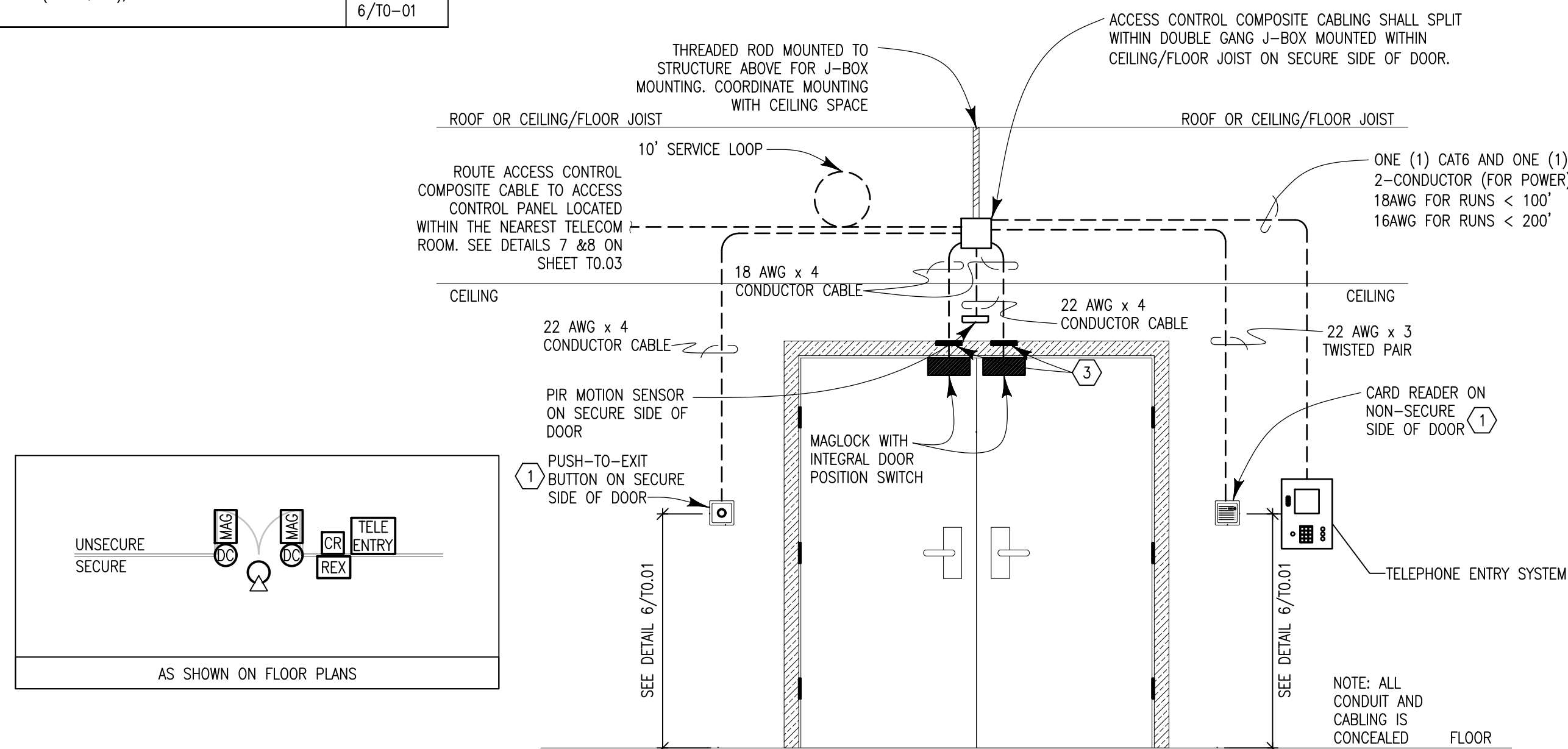
- REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DEVICES AND REQUIREMENTS FOR EACH DOOR.
- ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL CONDUIT WHERE INDICATED ON PLAN DRAWINGS.
- INTERFACE DOOR LOCKING DEVICES WITH AUTO DOOR OPENERS, DOOR HOLD OPEN MAGNETS, AND HANDICAP ASSIST DOOR OPENERS ON SECURITY DOORS.
- ALL MAGNETIC LOCKS SHALL BE MOUNTED ON THE SECURE SIDE OF THE DOOR, UNLESS OTHERWISE INDICATED.
- EMERGENCY DOOR RELEASE PULL STATIONS AND PUSH-TO-EXIT BUTTONS MUST BE MOUNTED WITHIN 40" OF DOOR.
- FOR STOREFRONT TYPE DOORS, STUB CONDUIT OR FLEX INTO FRAME STRUCTURE AND FISH CABLE TO DEVICE.

#### KEY NOTES:

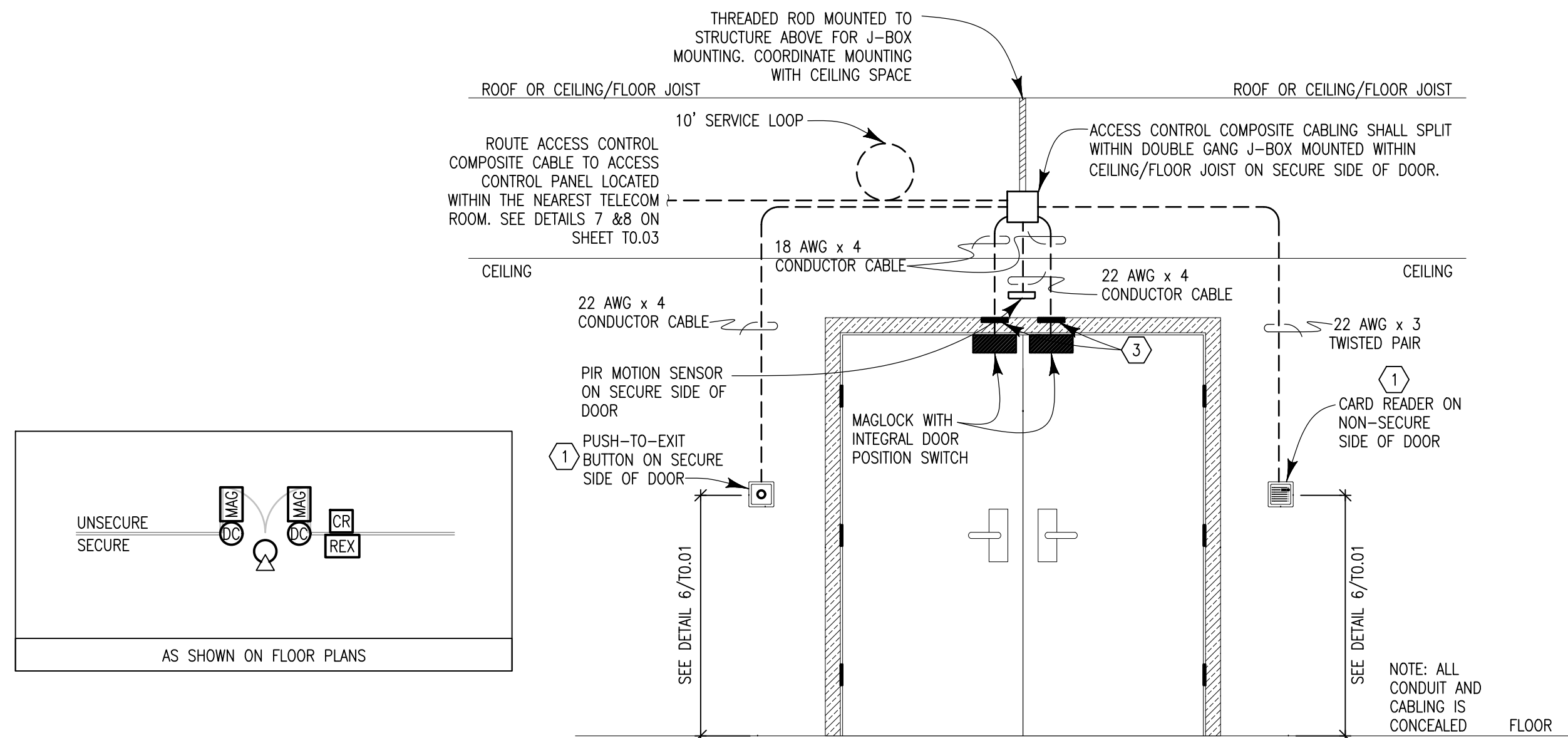
- DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 12"x12"x6" NEMA 12 HOFFMAN BOX WITH HINGED COVER SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
- MORTAR GUARD SUPPLIED AND INSTALLED BY LV CONTRACTOR.
- PROVIDE ADAPTER PLATE FOR MOUNTING MOTION SENSOR TO BACKBOX.
- AT SHEETROCK WALLS, STUB CONDUIT INTO WALL TO 4" BELOW CEILING. FISH WIRE TO SURFACE-MOUNTED MOTION SENSOR.
- PIR INSTALLED IN CEILING ON SECURE SIDE OF DOOR.



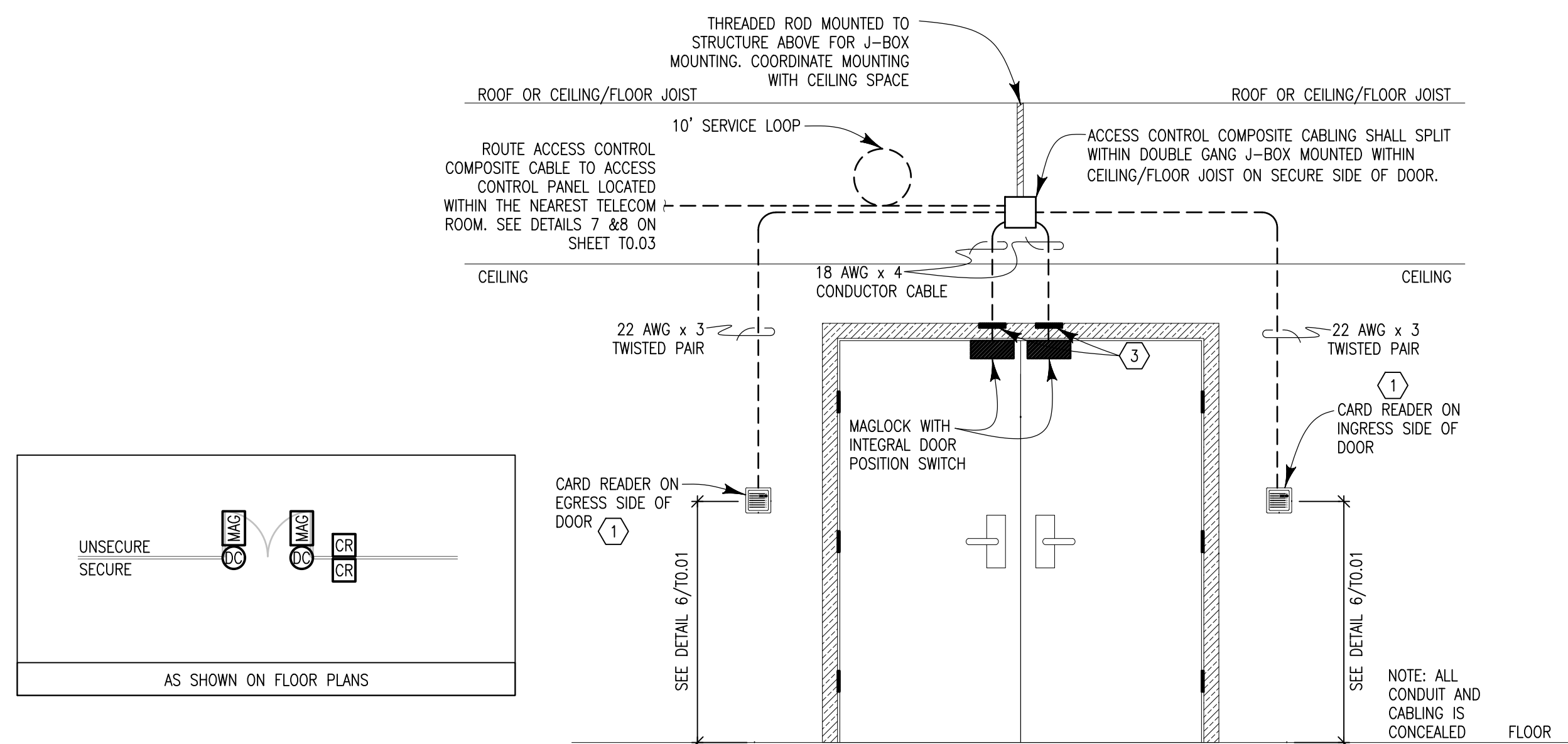
**1** DOUBLE DOOR WITH CARD READER & ELECTRIC CRASH BARS  
T0.05 SCALE: 1/2"=1'-0"



**3** DOUBLE DOOR WITH CARD READER & MAGLOCKS  
T0.05 SCALE: 1/2"=1'-0"

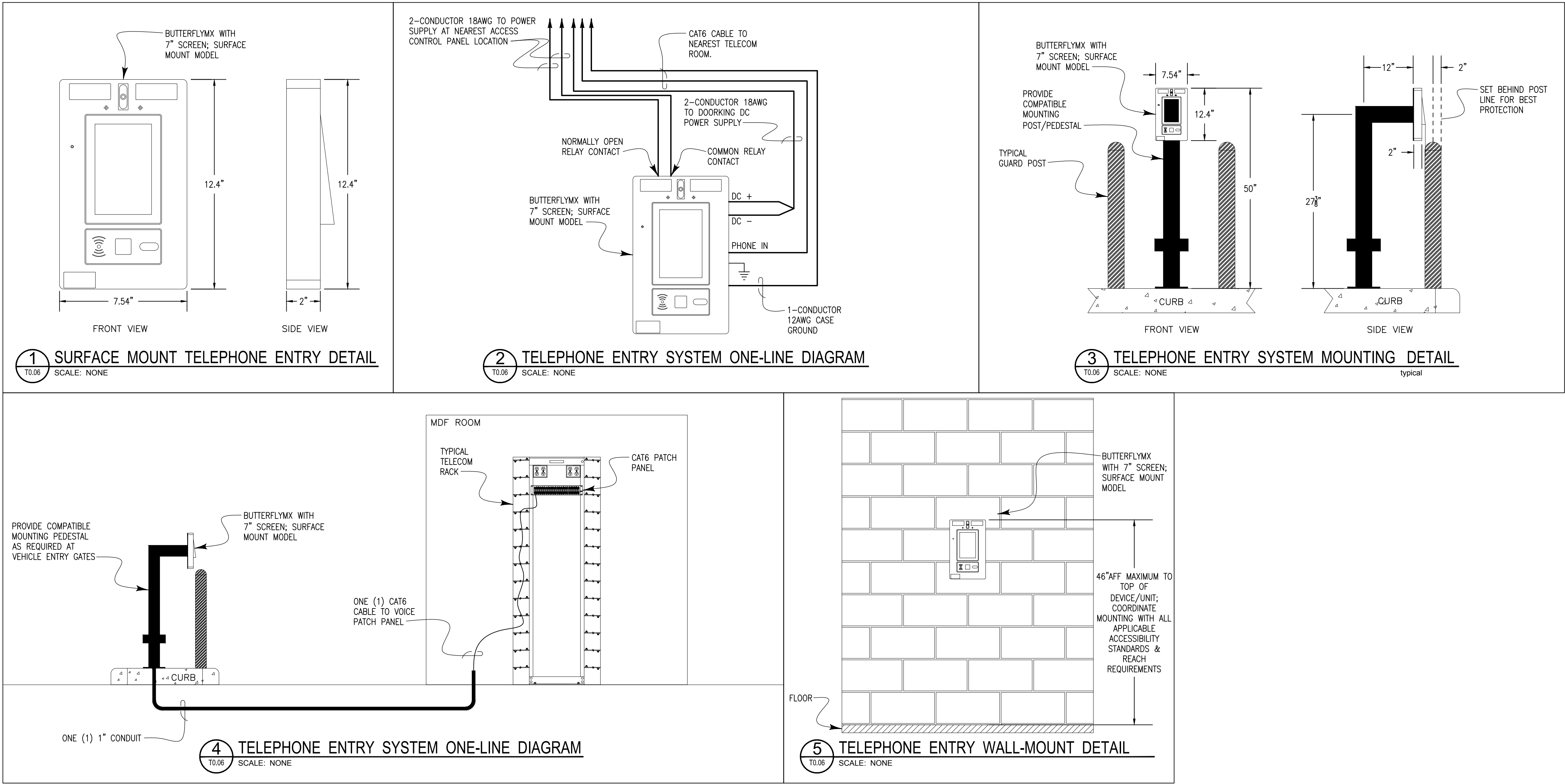


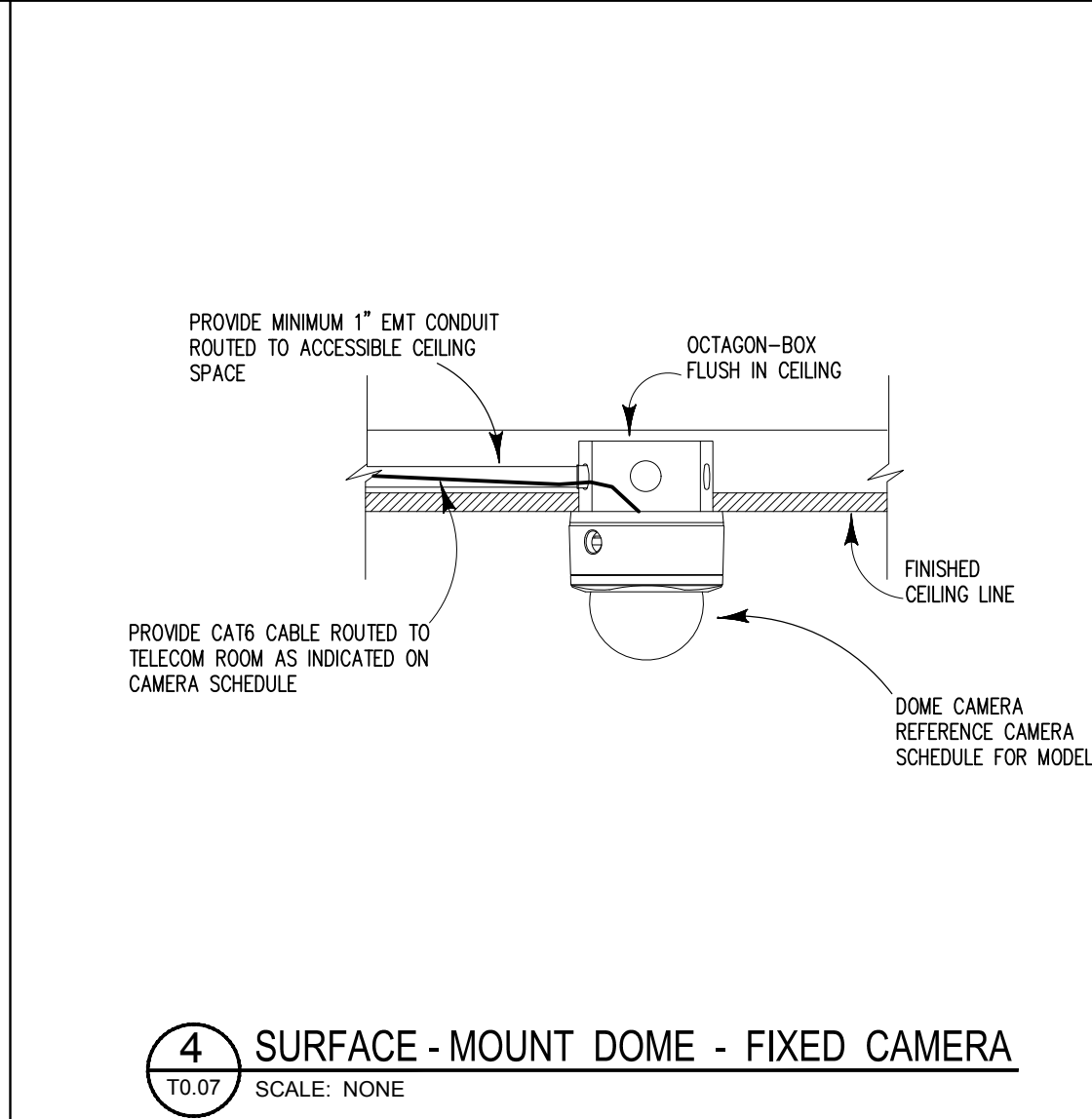
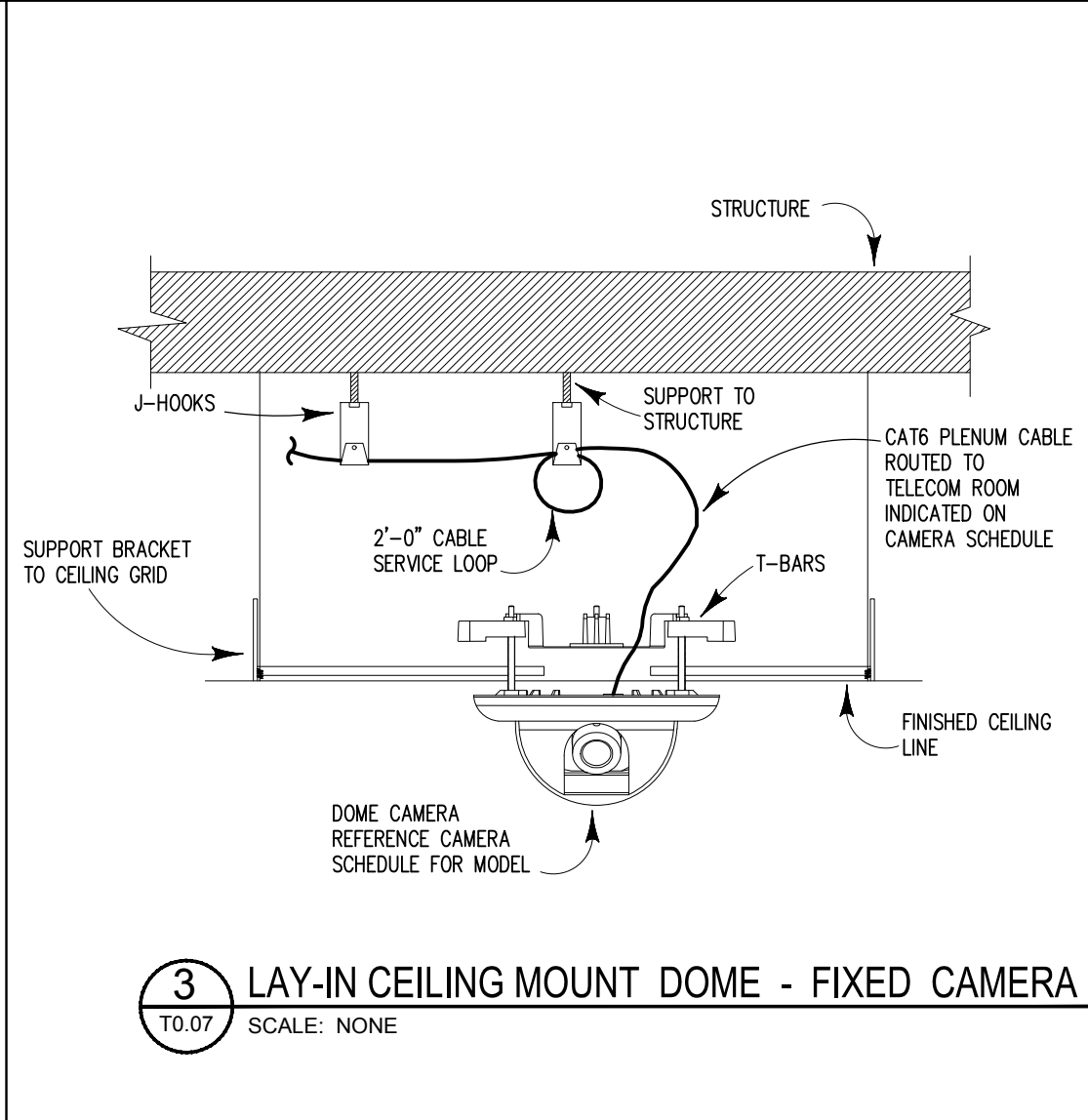
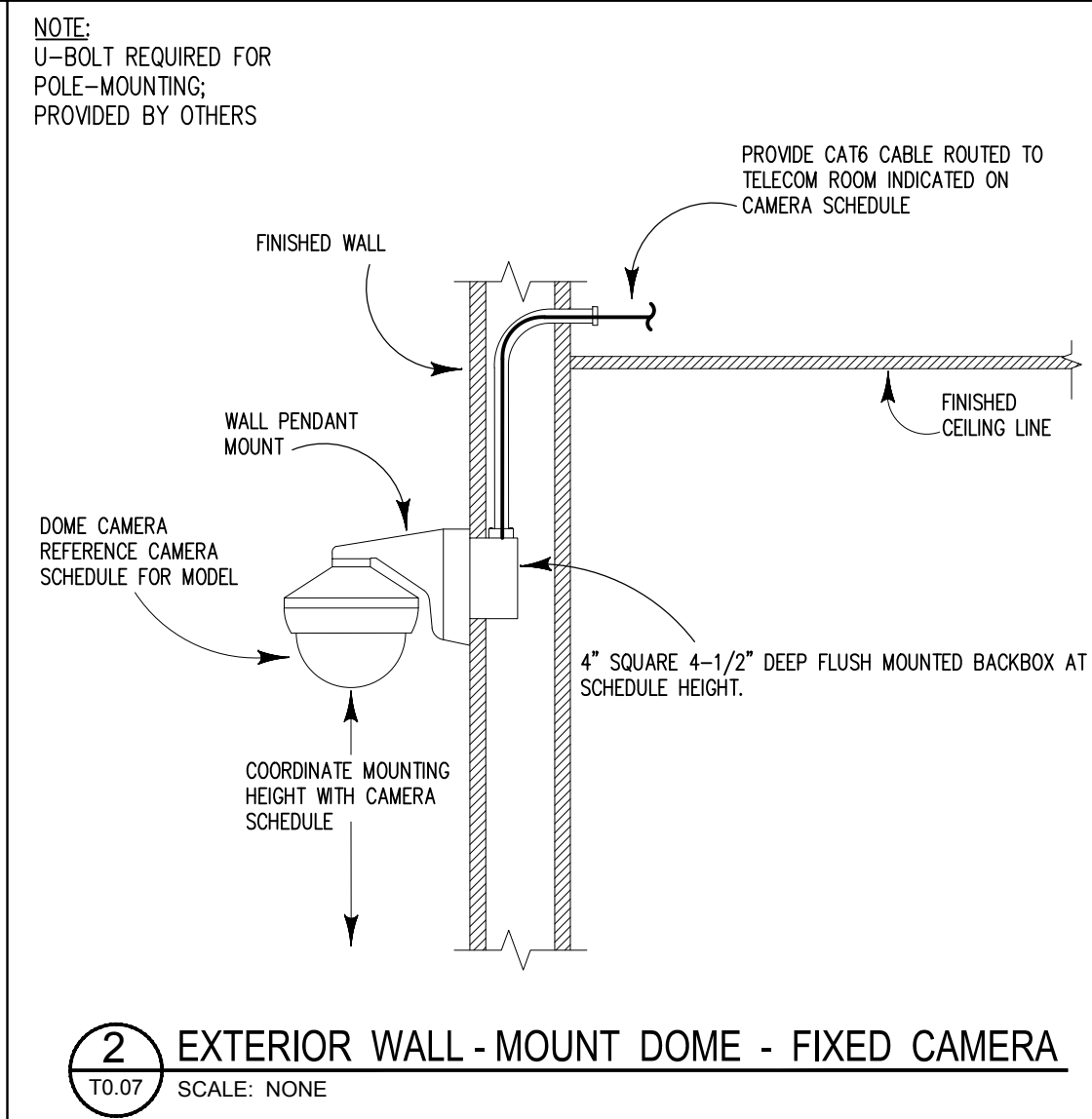
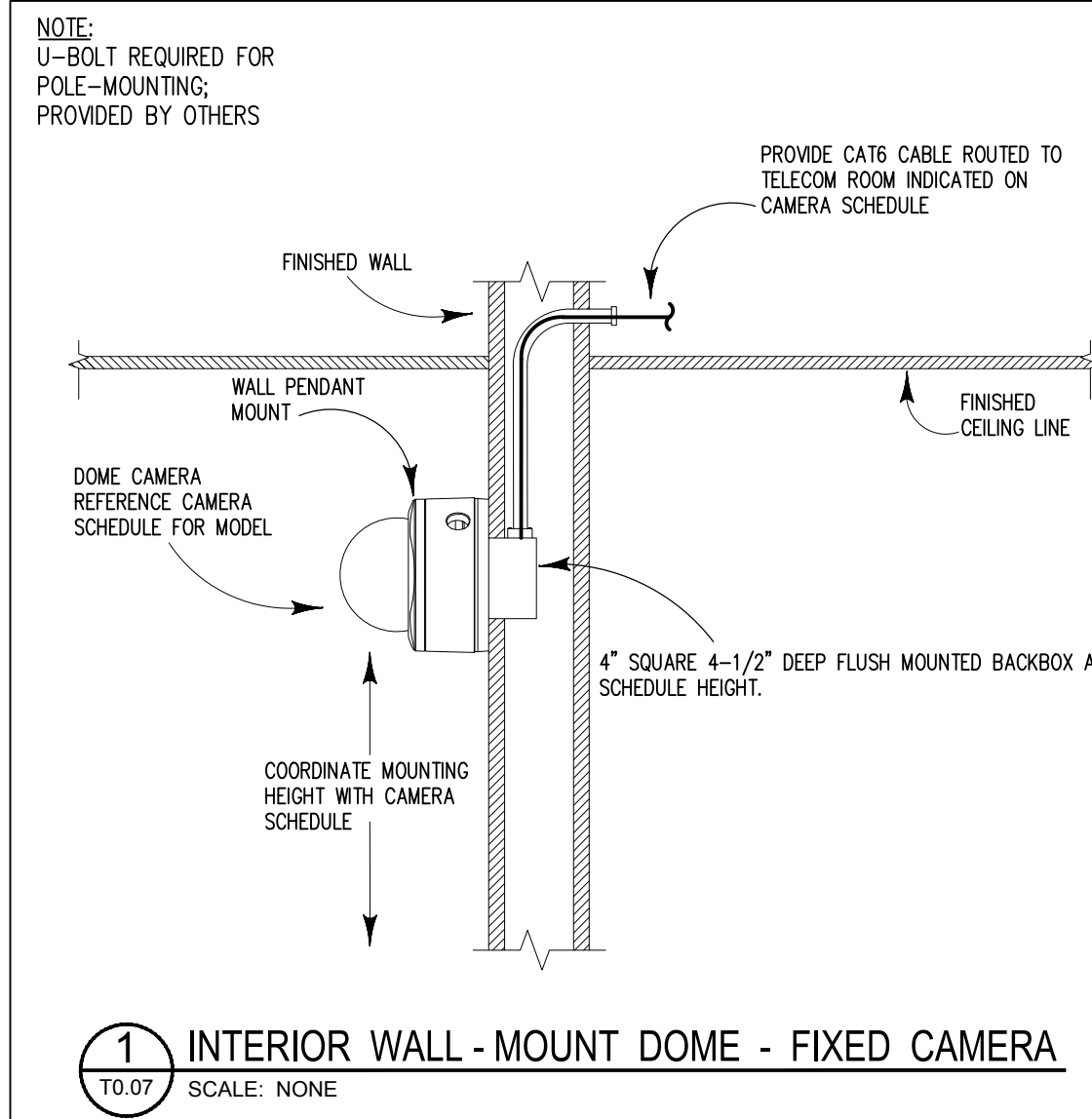
**3** DOUBLE DOOR WITH CARD READER & MAGLOCKS  
T0.05 SCALE: 1/2"=1'-0"



**3** DOUBLE DOOR WITH IN/OUT CARD READER & MAGLOCKS  
T0.05 SCALE: 1/2"=1'-0"

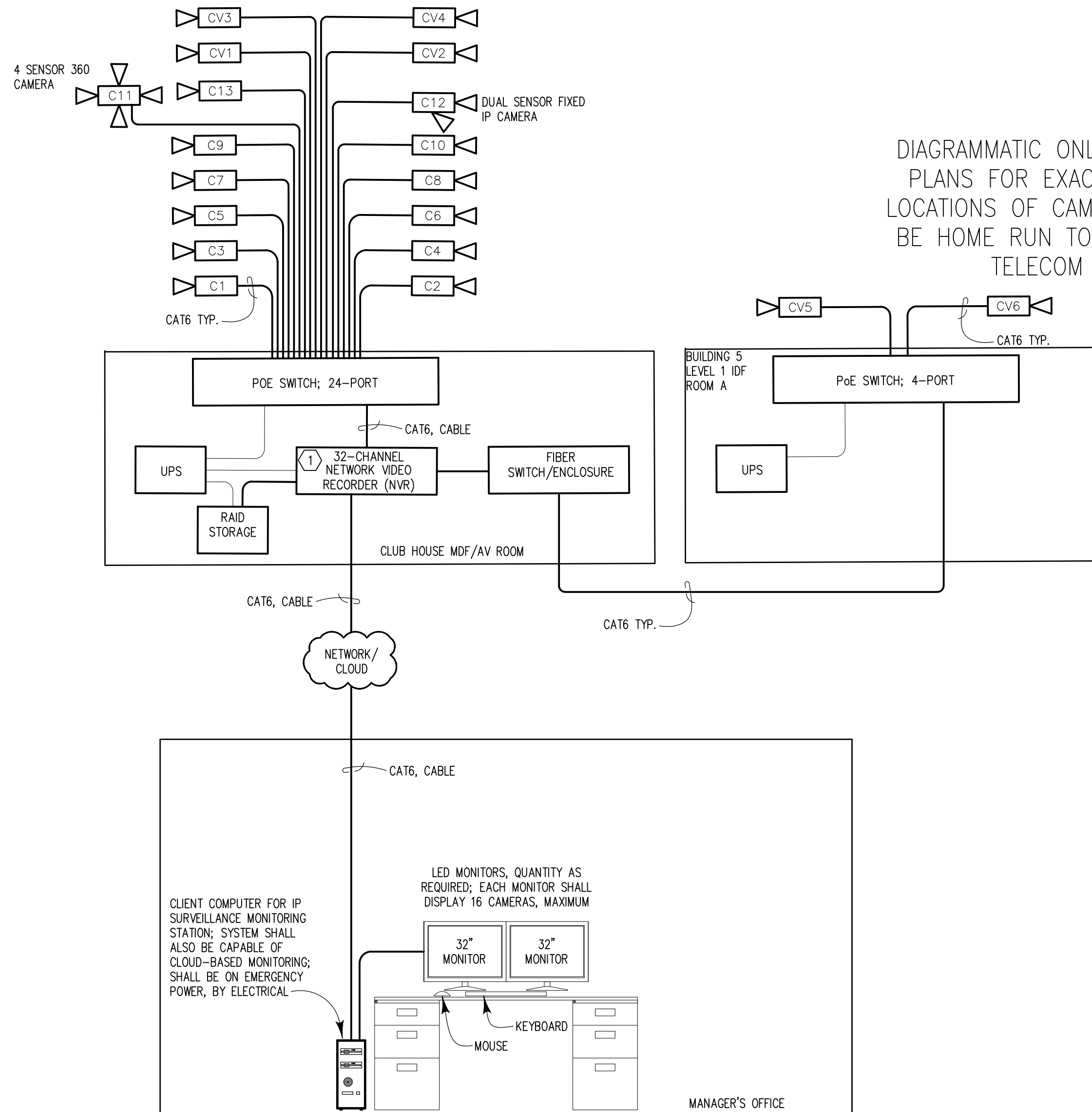
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#### CAMERA GENERAL NOTES:

- ROOMS AND EQUIPMENT DO NOT REFLECT ACTUAL SIZES.
- SEE ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF CAMERAS.
- COORDINATE WITH SECURITY CONTRACTOR & SERVICE PROVIDER FOR EXACT EQUIPMENT REQUIREMENTS.



IP CAMERA SYSTEM LEGEND		
SYMBOL	DESCRIPTION	HEIGHT
	FIXED IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	270° MULTISENSOR IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	360° MULTISENSOR IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	
	DUAL SENSOR FIXED IP CAMERA; ONE (1) CAT 6 CABLE DROP ONLY FOR FUTURE CAMERA LOCATION; CAMERAS & ASSOCIATED HARDWARE ARE TO BE PROVIDED & INSTALLED BY OWNER.	

#### KEY NOTES: IP SURVEILLANCE

- NVR SHALL PROVIDE 30-DAYS OF STORAGE, MINIMUM, PER DIVISION 28 SPECIFICATIONS.
- IP SURVEILLANCE SYSTEM BACKBONE SHALL BE DEDICATED FOR THE CAMERA SYSTEM & BE SEPARATE FROM ANY SERVICE PROVIDER/TELECOM NETWORK BACKBONE.

#### 5 IP SURVEILLANCE SYSTEM ONE-LINE DIAGRAM

T0.07 SCALE: NONE

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CAMERA DETAILS -  
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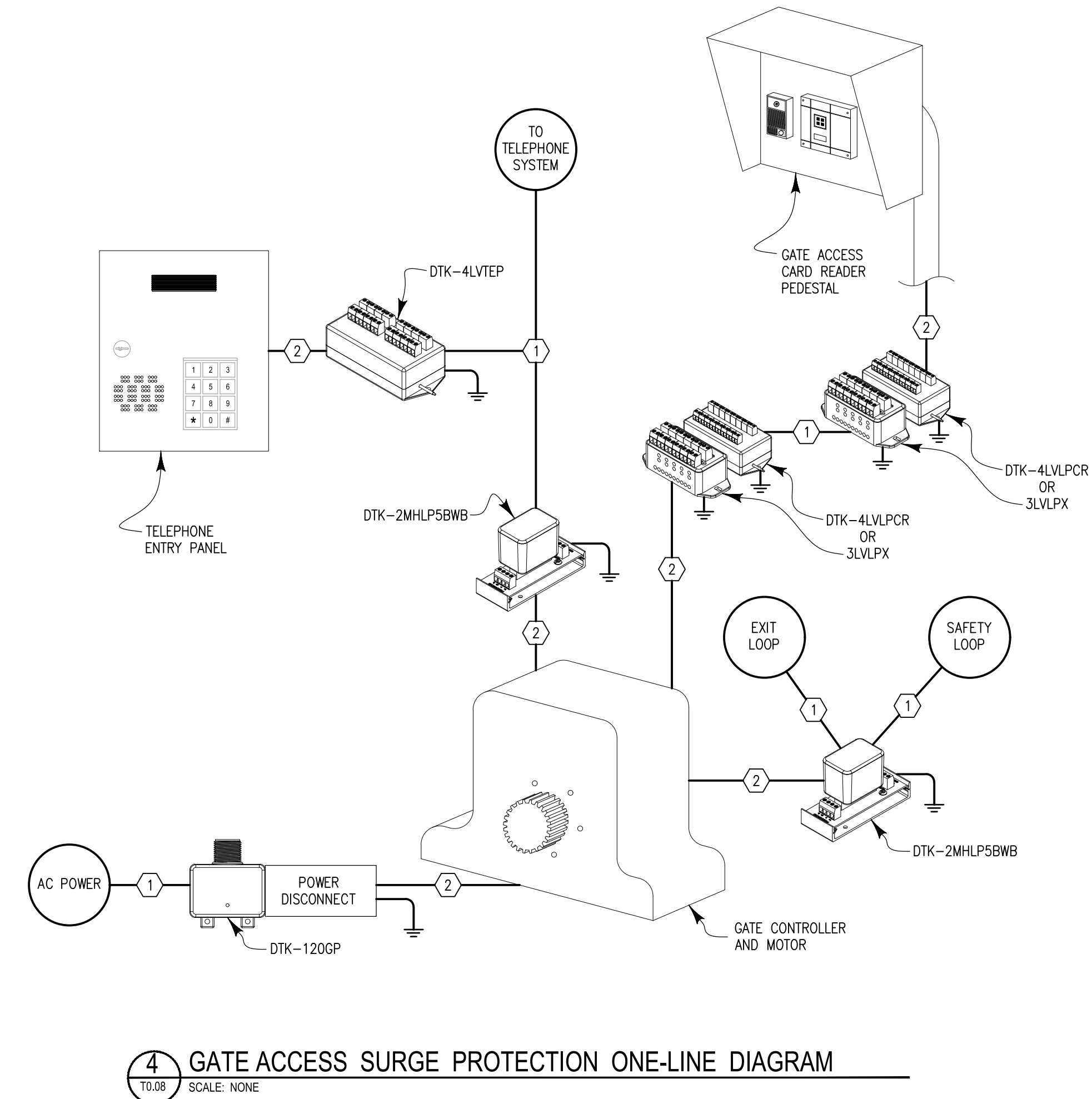
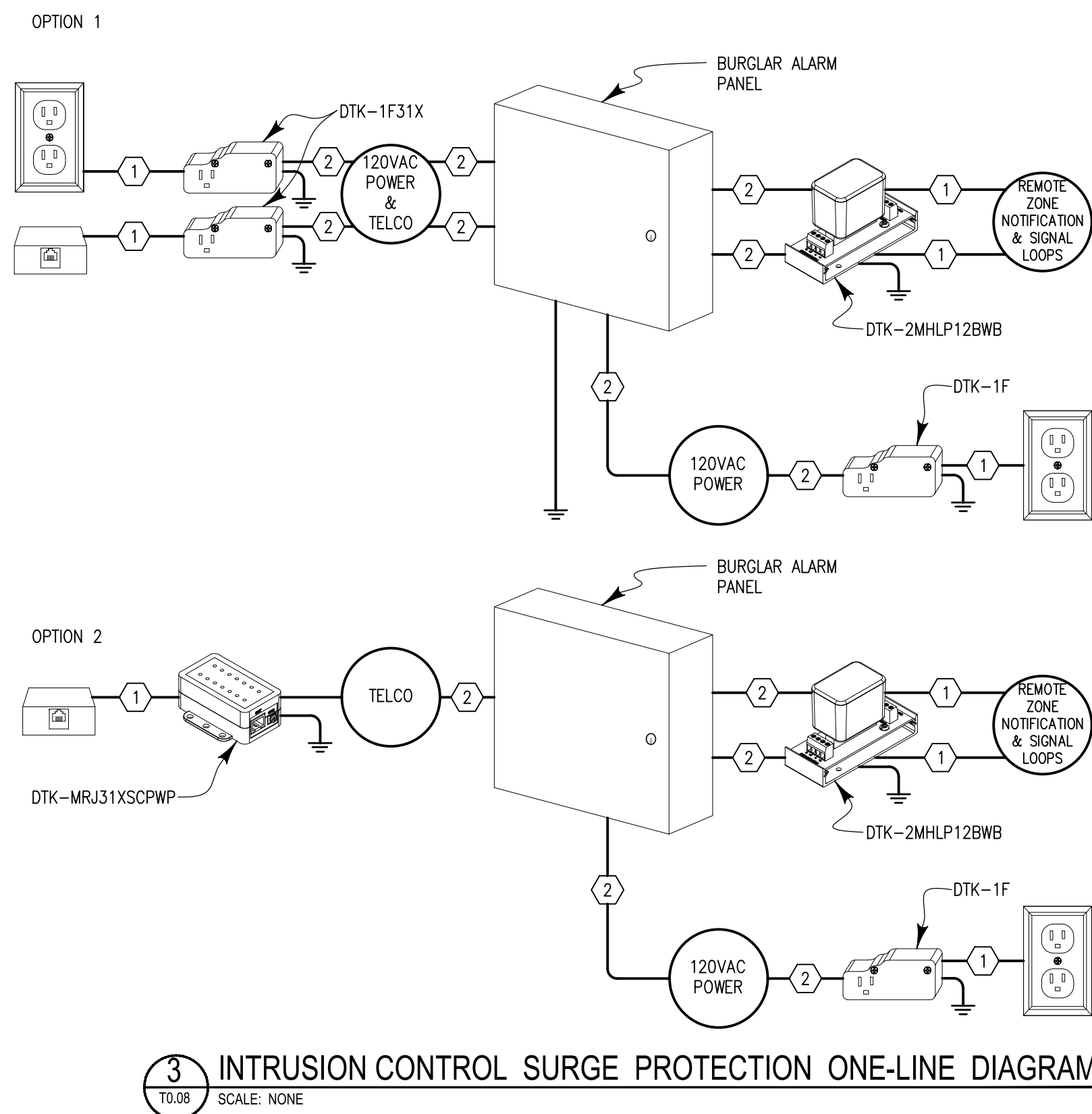
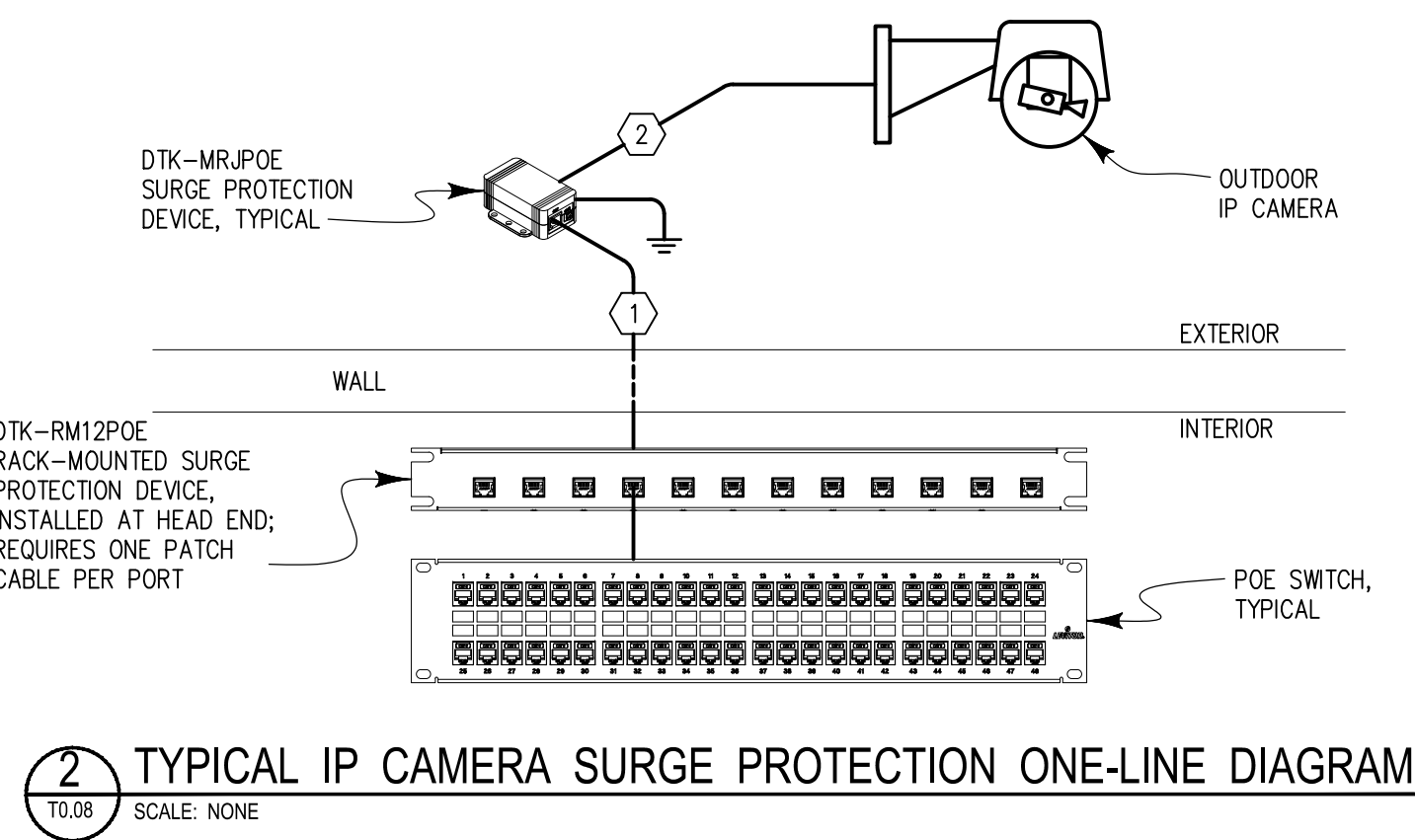
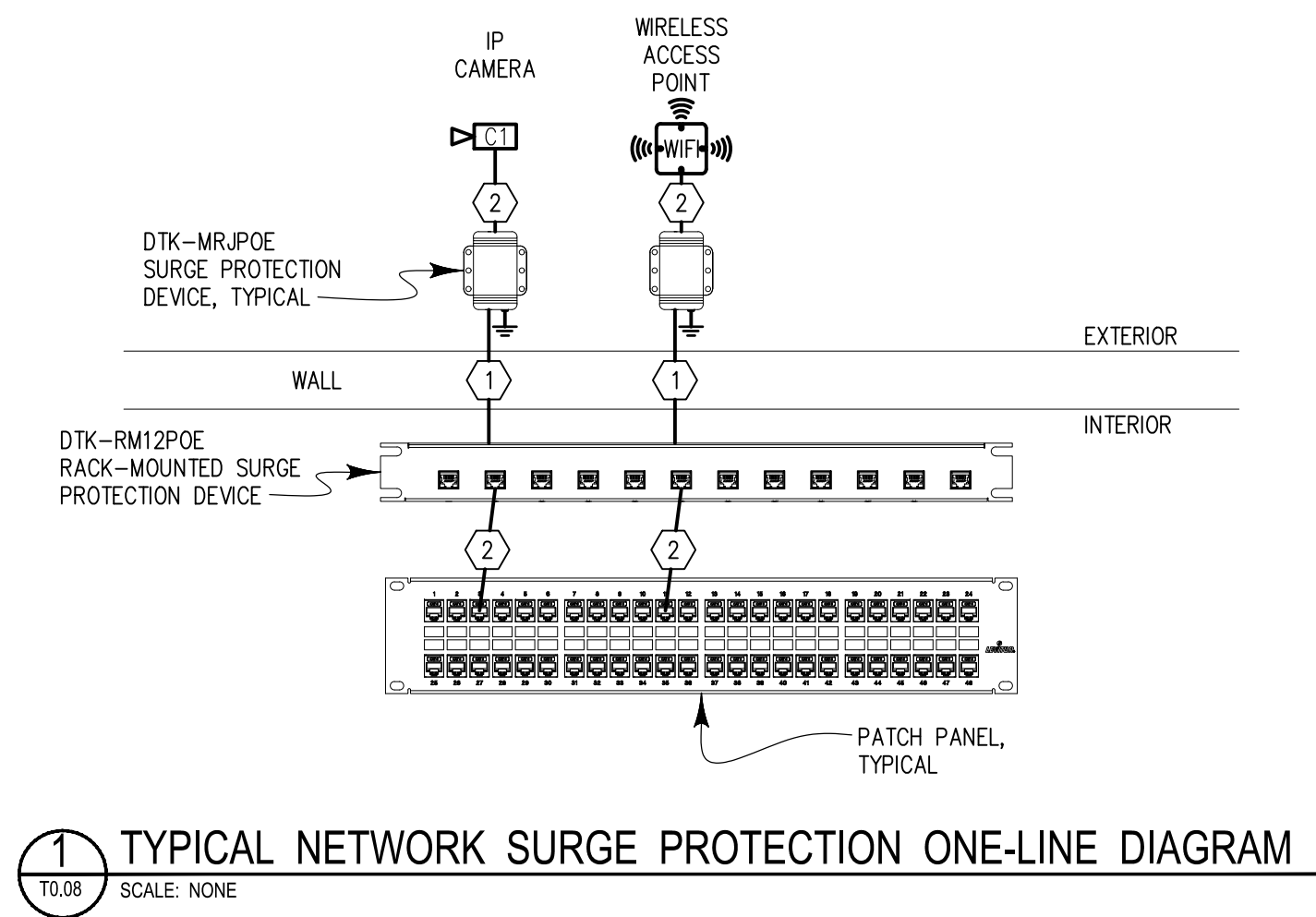
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## NETWORK SURGE PROTECTION NOTES:

1. TO KEEP SURGES FROM ENTERING THE BUILDING AND NETWORK, IT IS RECOMMENDED TO PROVIDE A LAYER OF SURGE PROTECTION. THIS HEAD END PROTECTION POINT IS THE ONLY WAY TO REDUCE THE RISKS ASSOCIATED WITH METALLIC CONDUCTORS CONNECTING EXTERNAL DEVICES TO INTERNAL NETWORK COMPONENTS.
2. IT IS RECOMMENDED TO PROTECT EACH EXTERNALLY-MOUNTED DEVICE FROM SURGES THAT ARE INTRODUCED ON THE METALLIC CONDUCTORS.
3. FAILURE TO INSTALL SURGE PROTECTION DEVICES PLACES ALL INTERNAL NETWORK CONNECTED EQUIPMENT AT RISK.
4. MUST BE GROUNDED AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

## KEY NOTES:

- 1 HIGH SURGE RISK CONNECTION, TYPICAL
- 2 PROTECTED COPPER CONNECTION, TYPICAL

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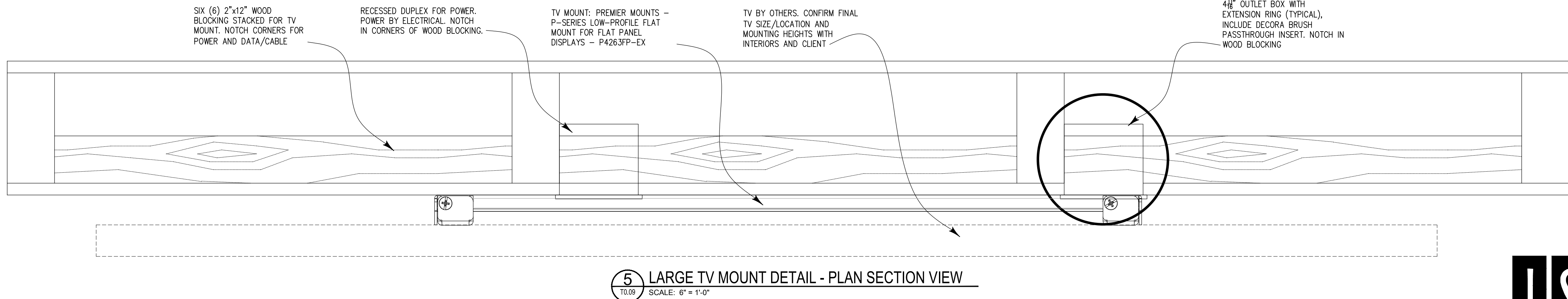
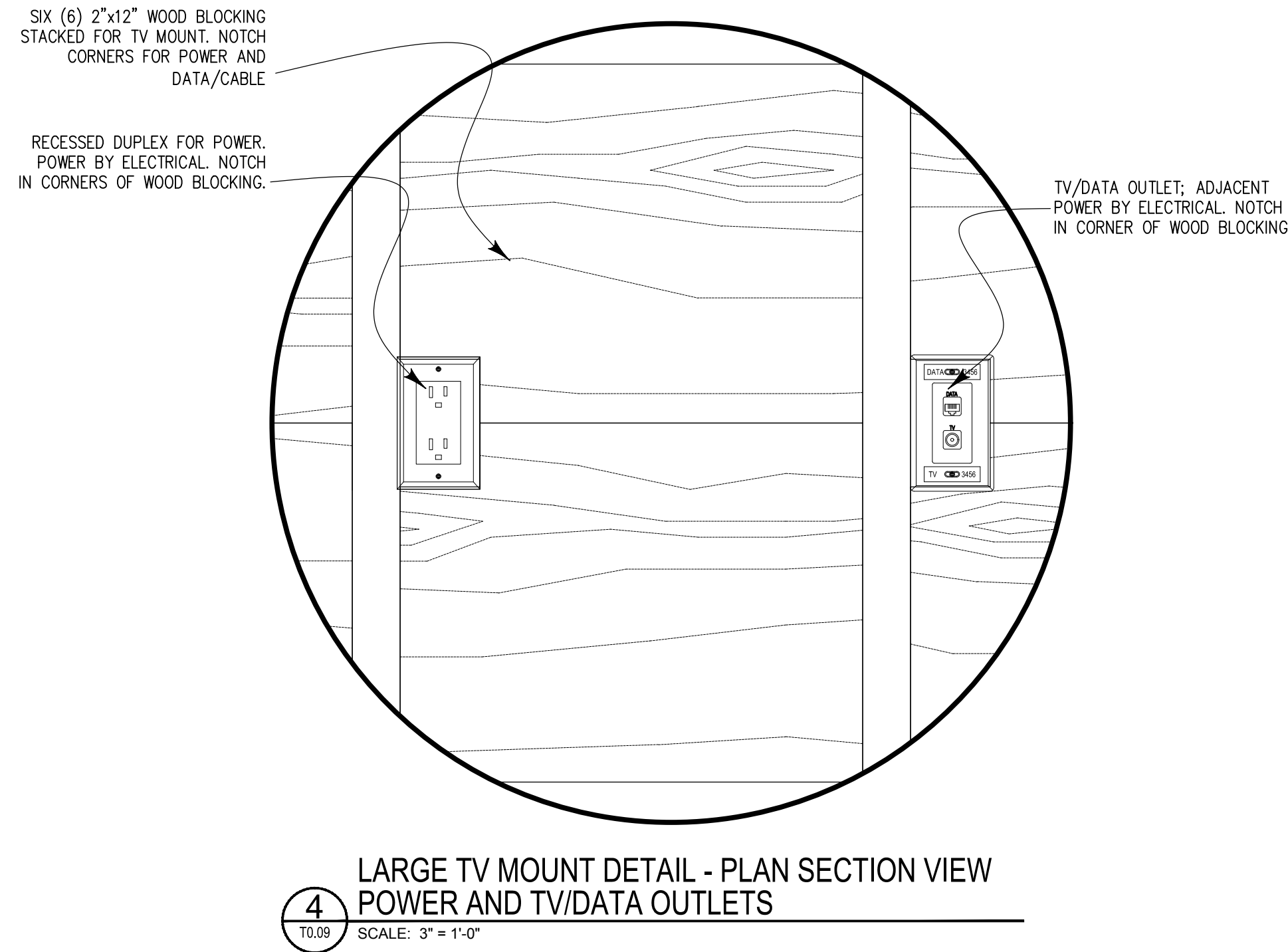
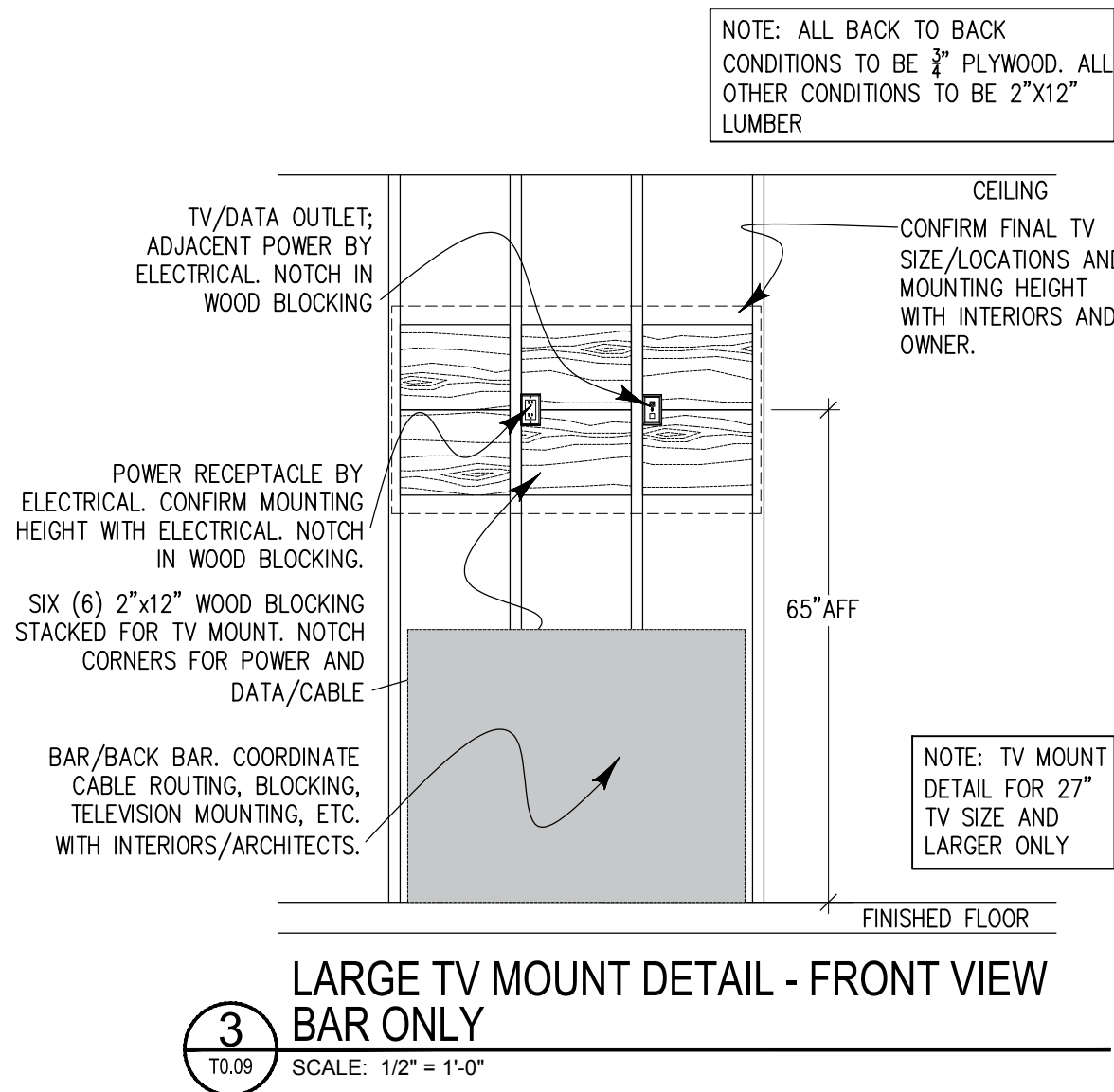
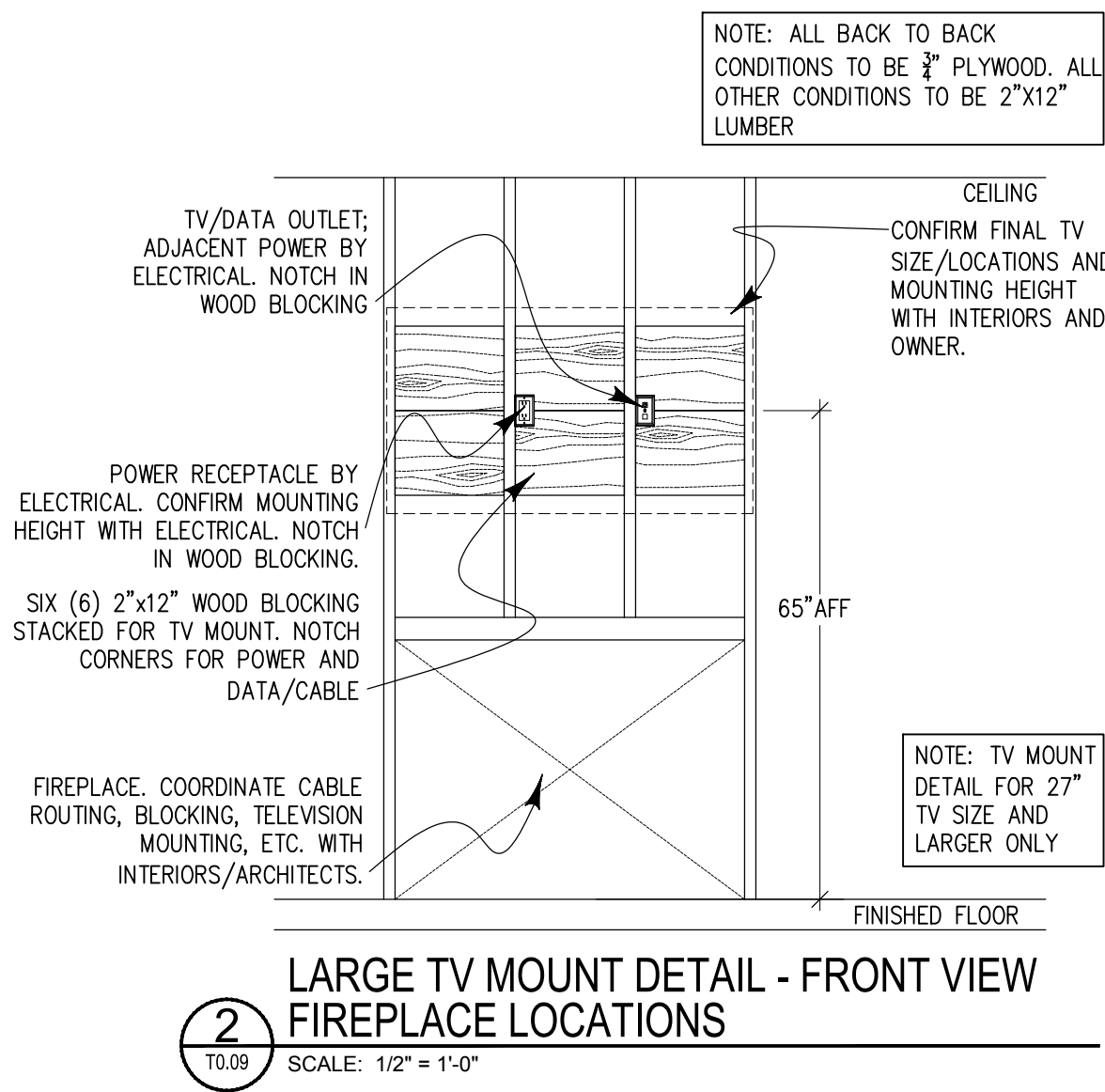
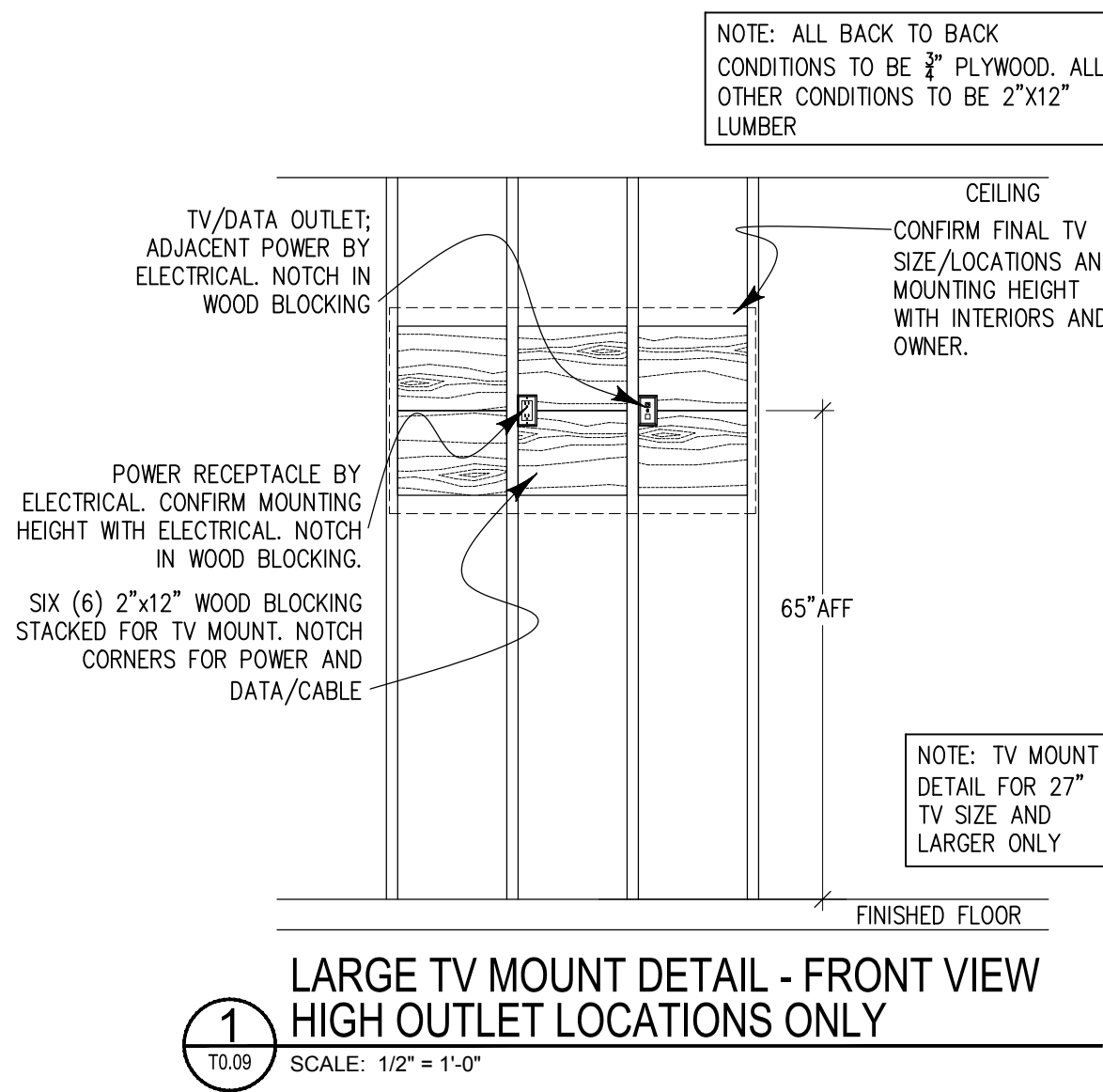
**SURGE PROTECTION  
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- G1. REFERENCE THE LOCAL JURISDICTION'S ADOPTED VERSIONS OF SECTION 510 OF THE INTERNATIONAL FIRE CODE, NFPA 72, & NFPA 1221 REGARDING REQUIREMENTS FOR EMERGENCY RESPONDER RADIO COVERAGE/PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEMS.
- G2. ERRC SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF BATTERY BACKUP; WHERE AN EMERGENCY GENERATOR IS USED, PROVIDE A MINIMUM OF 2 HOURS.
- G3. ALL BACKBONE CABLEING USED FOR THE ERRC SYSTEM SHALL MAINTAIN 2-HOUR SURVIVABILITY, TYPICALLY VIA WRAPPING, & BE PLENUM RATED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ). COORDINATE EXACT LABELING REQUIREMENTS WITH THE AHJ.
- G4. ERRC SYSTEM SHALL BE UL2524 LISTED & BE INSTALLED BY A GROL CERTIFIED INSTALLER.
- G5. PROVIDE (1) 1<sup>st</sup> CONDUIT, MINIMUM, BETWEEN EACH DASHED CHAINED ANTENNA JUNCTION BOX LOCATION THEN HOME RUN ONE (1) 2<sup>nd</sup> CONDUIT FROM THE FINAL ANTENNA LOCATION IN THE CHAIN TO THE NEAREST TELECOM ROOM FOR FUTURE INSTALLATIONS; WHERE ERRC SYSTEMS ARE BEING INSTALLED PRIOR TO CEILINGS GOING UP, OPEN CABLEING MAY BE USED, AS DEEMED APPROPRIATE BY THE AHJ & ERRC SYSTEM INTEGRATOR. PROVIDE TWO (2) DESIGNATED 2" HOME RUNS TO EACH TELECOM ROOM FROM EACH TELECOM SERVING ERRC SYSTEM CABLEING BETWEEN FLOORS. SEE THE CONDUIT RISER DIAGRAM ON SHEET T-20 & FLOOR PLANS FOR CONDUIT ROUTING & LOCATIONS.

- ① COAXIAL SPLITTER; CONFIRM EXACT SPLITTER SIZES REQUIRED WITH THE ERRC AND DAS SYSTEM INTEGRATOR OR INSTALLER.
- ② ERRC REPEATATION ANTENNA: PROVIDE 18"X18"X6" JUNCTION BOX AT EACH LOCATION. JUNCTION BOX SHALL HOUSE ANTENNA AND ANY REQUIRED SPLITTER(S), PER KEY NOTE 1.
- ③ BI-DIRECTIONAL AMPLIFIER (BDA) WITHIN RED, NEMA-4, ALUMINUM ENCLOSURE, OF TYPEAL DIMENSIONS 20.55" W x 24" H x 8.32"; UNIT DIMENSIONS MAY INCREASE TO 23.23" W x 26.22" H UPON ADDITION OF HEATSINKS & MOUNTING TABS, RESPECTIVELY. BDA SHALL INCLUDE OSCILLATION PREVENTION MECHANISMS. FREQUENCIES SERVED (VHF, UHF, 700MHZ, 800MHZ, OR MULTIBAND) SHALL BE CONFIRMED WITH THE AHJ. ALSO SEE NOTES G1 & G5.
- ④ BATTERY BACKUP WITHIN RED, NEMA-3R, STEEL, VENTED ENCLOSURE, OF TYPEAL DIMENSIONS 23" W x 13" H x 8.3". ALSO SEE NOTE G2.
- ⑤ DEDICATED & MONITORED ANNUNCIATOR PANEL IS REQUIRED AS SPECIFIED IN NFPA 72 & NFPA 1221. PANEL SHALL BE DEPENDENT OF THE FIRE ALARM SYSTEM & POWERED BY THE BDA POWER SUPPLY & ASSOCIATED BATTERY BACKUP. PANEL SHALL BE MOUNTED ON A STANDARD 2-GANG ELECTRICAL BOX SUPPLIED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH AHJ FOR PREFERRED MOUNTING LOCATION.
- ⑥ PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL (FACP) FOR REQUIRED MONITORING BY THE BUILDING'S FIRE ALARM SYSTEM SUPERVISORY SIGNALING. MONITORING OF SIGNALS INDICATE ANTENNA MALFUNCTION, BDA FAILURE, LOW BATTERY CAPACITY, LOSS OF NORMAL AC POWER, & FAILURE OF BATTERY CHARGER.

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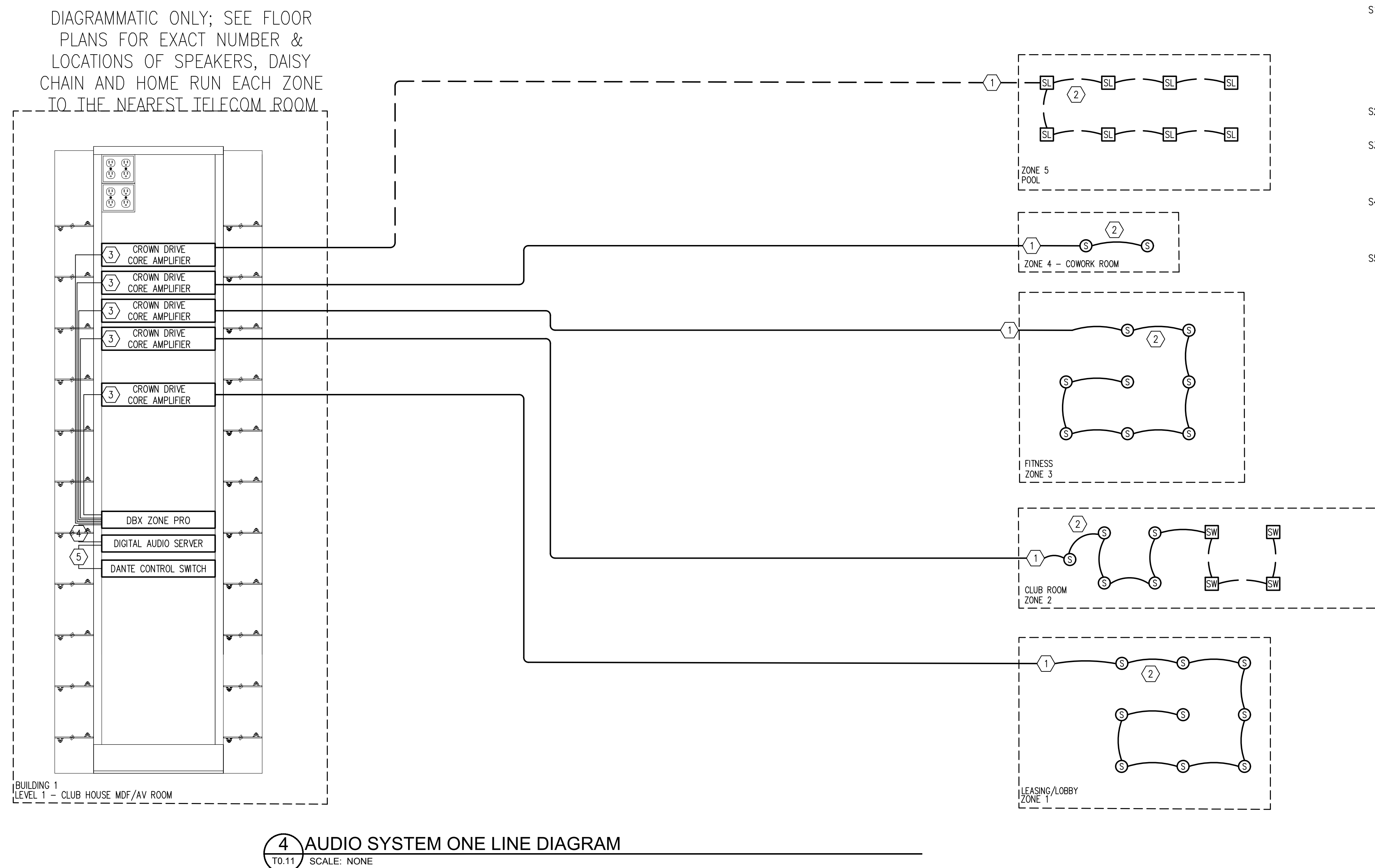
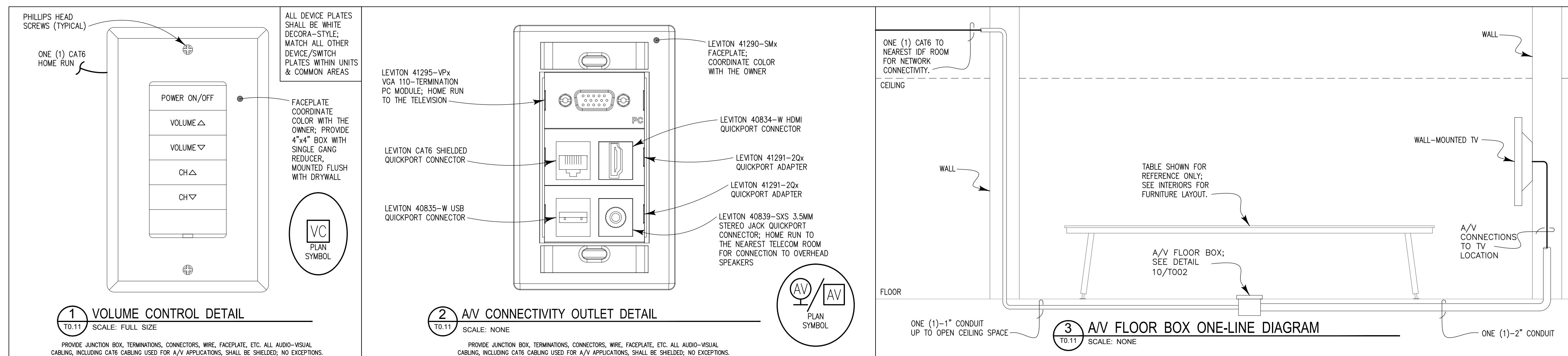
# A Development of Abacus Capital Group

JOB NO.:		2203
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ERRC SYSTEM  
DETAILS - TELECOM

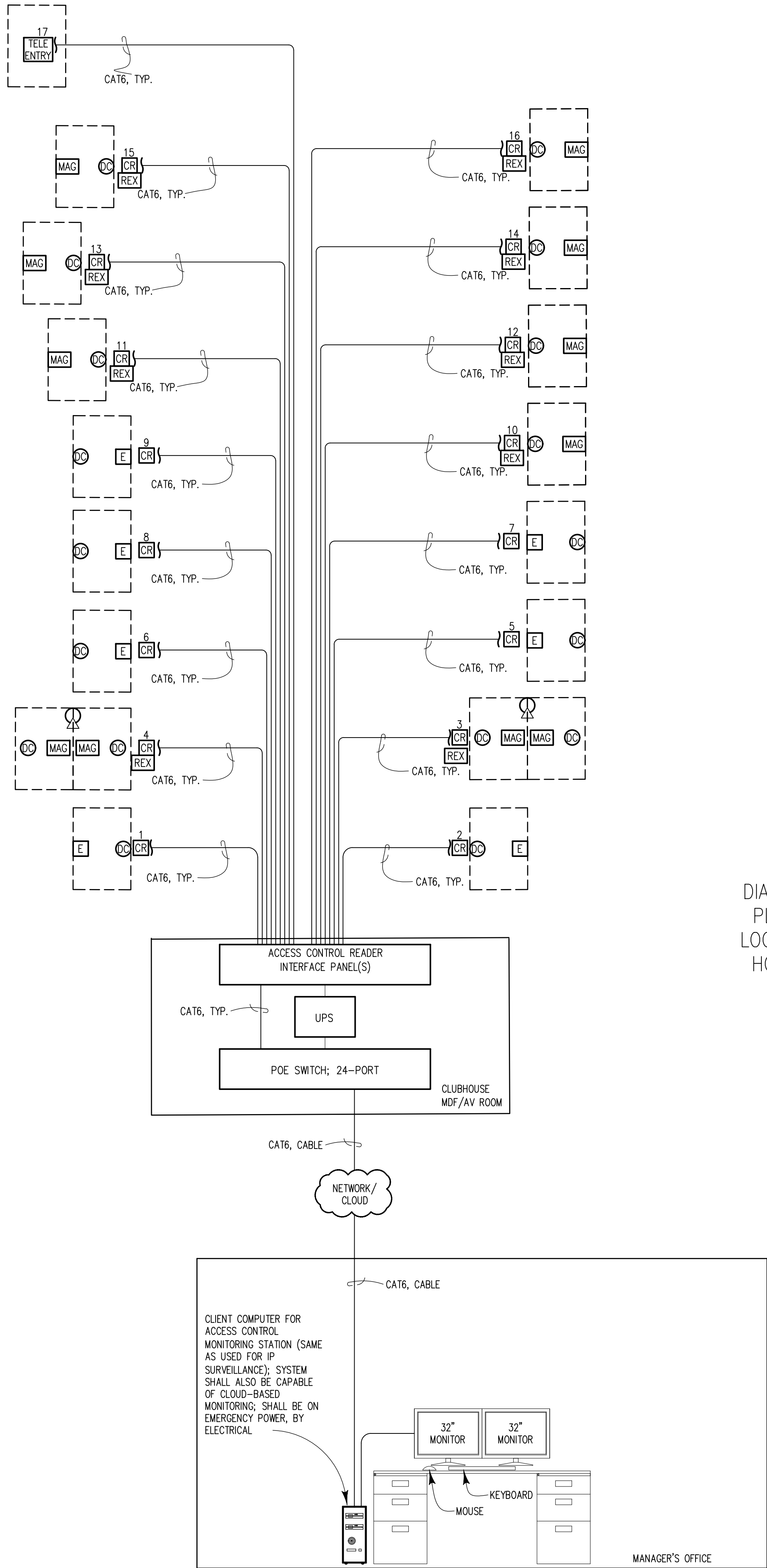
# T0.10





GENERAL NOTES:

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DIAGRAMMATIC ONLY; SEE FLOOR  
PLANS FOR EXACT NUMBER &  
LOCATIONS OF ACCESS CONTROL,  
HOME RUN EACH ONE TO THE  
NEAREST TELECOM ROOM

#### GENERAL NOTES:

1. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DEVICES AND REQUIREMENTS FOR EACH DOOR.
2. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL CONDUIT WHERE INDICATED ON PLAN DRAWINGS.
3. DETAILS ARE SHOWN FOR GENERAL LAYOUT. FIELD VERIFY EXACT CONDITIONS WITH ARCHITECT. COORDINATE WITH DOOR HARDWARE CONSULTANT FOR EQUIPMENT REQUIREMENTS.
4. ROOMS AND EQUIPMENT DO NOT REFLECT ACTUAL SIZES.
5. SEE ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF ACCESS CONTROL DEVICES.

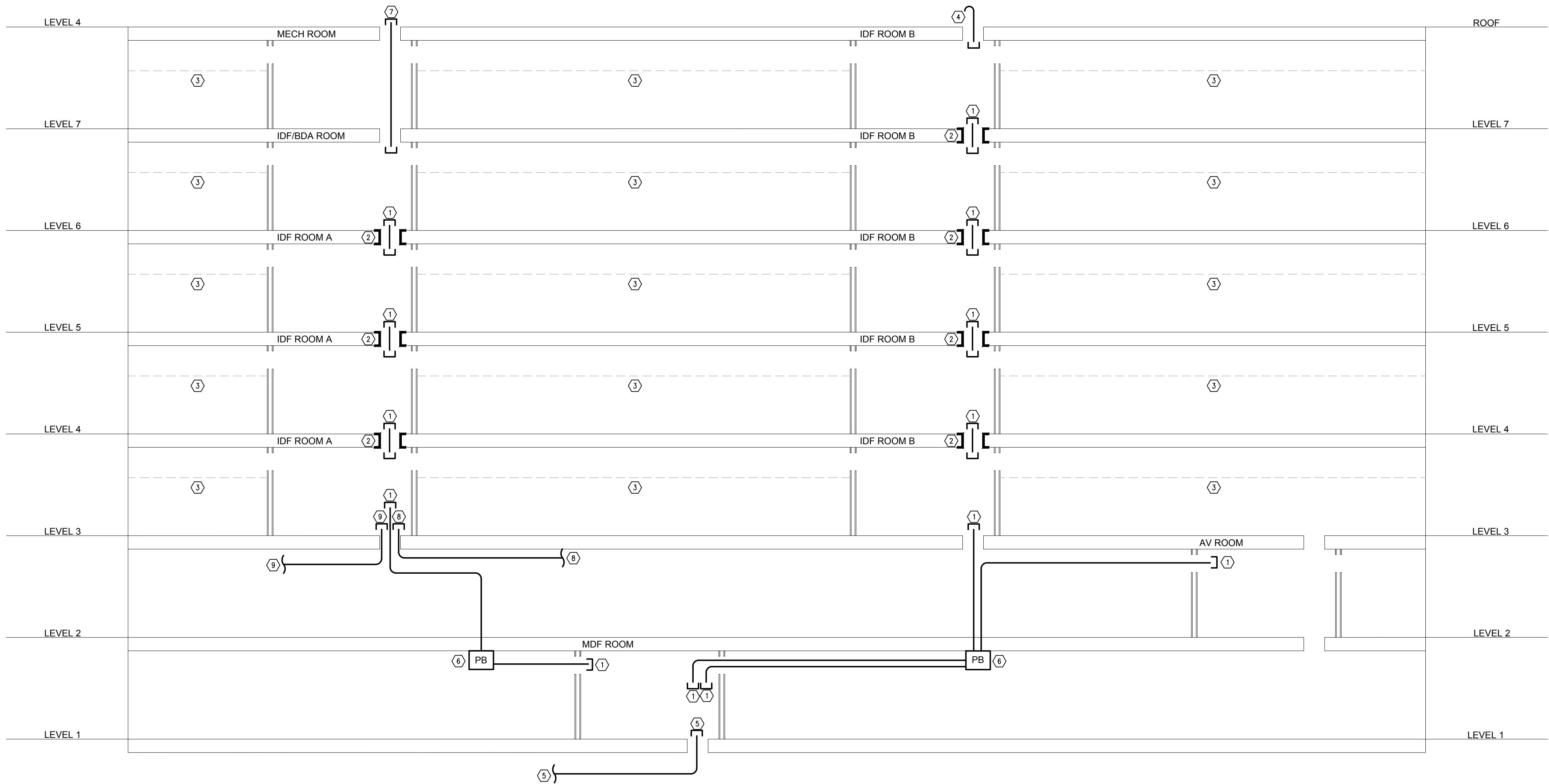
#### POE ACCESS CONTROL SYSTEM LEGEND

SYMBOL	DESCRIPTION	HEIGHT
CR #	RFID PROXIMITY CARD READER	48" AFF TO OPERATOR
DO	DOOR CONTACT	
E	ELECTRIC STRIKE OR DOOR LOCK; COORDINATE EXACT REQUIREMENTS AT EACH DOOR WITH THE DOOR HARDWARE CONSULTANT	48" AFF TO OPERATOR
PIR	PASSIVE INFRARED SENSOR (PIR)	
REX	REQUEST-TO-EXIT	48" AFF TO OPERATOR
MAG	MAGNETIC DOOR LOCK; COORDINATE EXACT EQUIPMENT WITH DOOR HARDWARE CONSULTANT	
TELE ENTRY	TELEPHONE-ENTRY STATION, BUTTERFLYMX (OR EQUAL); PROVIDE COMPATIBLE PEDESTAL WHERE REQUIRED	48" AFF TO OPERATOR
FOB	RFID FOB RECEIVER FOR VEHICLE ENTRY	

#### 1 ACCESS CONTROL SYSTEM ONE-LINE DIAGRAM

10.12 SCALE: NONE

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1 CONDUIT RISERS  
SCALE: NONE

KEY NOTES: CONDUIT RISER

- ① FOUR (4)-3" CONDUITS, COORDINATE LOCATIONS WITH THE STRUCTURAL & ARCHITECTURAL DRAWINGS; RELOCATE IF NECESSARY. PROVIDE SHOP DRAWINGS REFLECTING THE FINAL LAYOUT OF ALL CONDUITS FOR APPROVAL. SEE OVERALL FLOOR PLANS ON SHEET T3.00 FOR EXACT NUMBER & ROUTING OF CONDUITS BETWEEN LEVEL 1 MDF ROOM AND IDF ROOM STACKS STARTING ON LEVEL 3, AS WELL AS THE AV ROOM ON LEVEL 2.
- ② PROVIDE FOUR (4)-3" CONDUIT SLEEVES BETWEEN FLOORS FOR STACKED IDF ROOMS.
- ③ CEILING.
- ④ ONE (1)-2" CONDUIT TO ROOF FOR FUTURE SATELLITE SERVICE. PROVIDE ONE (1)-2" WEATHER HEAD. SATELLITE, IF APPLICABLE, BY SERVICE PROVIDER.
- ⑤ FOUR (4)-4" CONDUITS, ROUTED UNDERGROUND, TO PROPERTY LINE. COORDINATE EXACT LOCATION WITH SERVICE PROVIDER(S) & CIVIL ENGINEER. SEE OVERALL FLOOR PLAN ON SHEET T3.00 FOR EXACT ROUTING.
- ⑥ PULL BOX , SIZED PER N.E.C MOUNTED TO GARAGE CEILING. COORDINATE EXACT MOUNTING LOCATION WITH GARAGE CEILING STRUCTURE TO AVOID OBSTRUCTION.
- ⑦ ONE (1)-2" CONDUIT TO ROOF FOR ERRC BACKBONE CABLING.
- ⑧ STUB ONE (1)-1" CONDUIT INTO EACH TOWNHOME STYLE UNITS CEILING SPACE FOR SMC PANEL HOME RUN TO LEVEL 3 IDF ROOM A. CONDUITS SHALL BE ROUTED OVERHEAD FROM EACH UNIT INTO LEVEL 2 GARAGE CEILING SPACE THEN STUBBING UP INTO LEVEL 3 IDF ROOM A; SEE OVERALL FLOOR PLAN ON SHEET T3.00 FOR EXACT NUMBER AND ROUTING OF CONDUITS.
- ⑨ STUB ONE (1)-3" CONDUIT INTO CORRIDOR CEILING SPACE FOR UNIT SMC PANEL HOME RUN TO LEVEL 3 IDF ROOM A. CONDUIT SHALL ROUTE OVERHEAD FROM CORRIDOR CEILING INTO LEVEL 2 GARAGE CEILING SPACE THEN STUBBING UP INTO LEVEL 3 IDF ROOM A ; SEE SHEET T3.00 FOR EXACT CONDUIT ROUTING.

MEEKS PARTNERS

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GRANT STREET APARTMENTS  
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A Development of  
Abacus Capital Group

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SHEET TITLE:

CONDUIT RISER -  
TELECOM

DRAWING NO.  
T0.15

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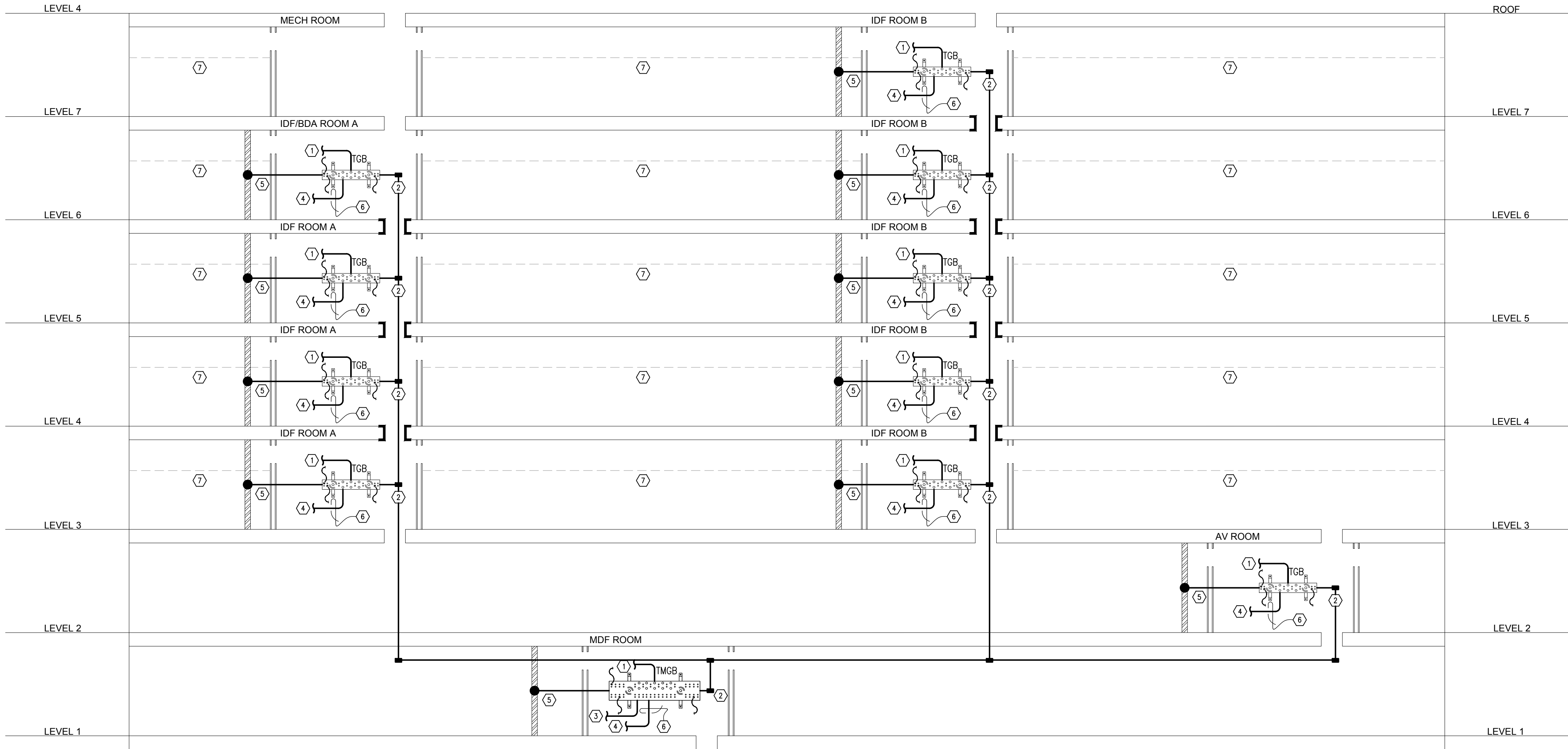
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1 GROUNDING RISER  
SCALE: NONE

KEY NOTES: GROUNDING RISER

- ① #6 AWG, MINIMUM, GROUNDING CONDUCTOR TO EQUIPMENT.
- ② GROUNDING CONDUCTORS (TBB).
- ③ GROUNDING CONDUCTOR TO MAIN ELECTRICAL ROOM, BY ELECTRICAL.
- ④ CONNECTIONS TO TELECOM EQUIPMENT.
- ⑤ CONNECTION TO BUILDING STEEL, IF APPLICABLE.
- ⑥ ALTERNATING CURRENT (AC) EQUIPMENT GROUND.
- ⑦ CEILING.

GENERAL NOTES: GROUNDING RISER

- G1. THE TELECOMMUNICATIONS BONDING BACKBONE (TBB) SHALL BE A COPPER CONDUCTOR. THE MINIMUM TBB CONDUCTOR SIZE SHALL BE A #6 AWG. THE TBB SHOULD BE SIZED BY THE ELECTRICAL ENGINEER. THE TBB MAY BE INSULATED; IF SO, THE INSULATION SHALL MEET THE FIRE RATINGS OF ITS PATHWAY. THE SIZING OF THE TBB IS NOT INTENDED TO ACCOUNT FOR THE REDUCTION OR CONTROL OF ELECTROMAGNETIC INTERFERENCE.
- G2. INSTALL GROUNDING BUSBAR A MINIMUM OF 18" AFF WITH 6" CLEAR ON ALL SIDES.
- G3. ALL GROUNDING BUSBARS IN ALL TELECOM ROOMS SHALL BE CONNECTED TO THE BUILDING STEEL.
- G4. VERIFY FINAL GROUNDING SYSTEM DESIGN WITH ELECTRICAL ENGINEER.

TBB SIZING	
LINEAR LENGTH (FT.)	SIZE (AWG)
LESS THAN 26'	4
27' – 33'	2
34' – 41'	1
42' – 52'	1/0
53' – 66'	2/0
GREATER THAN 66'	3/0

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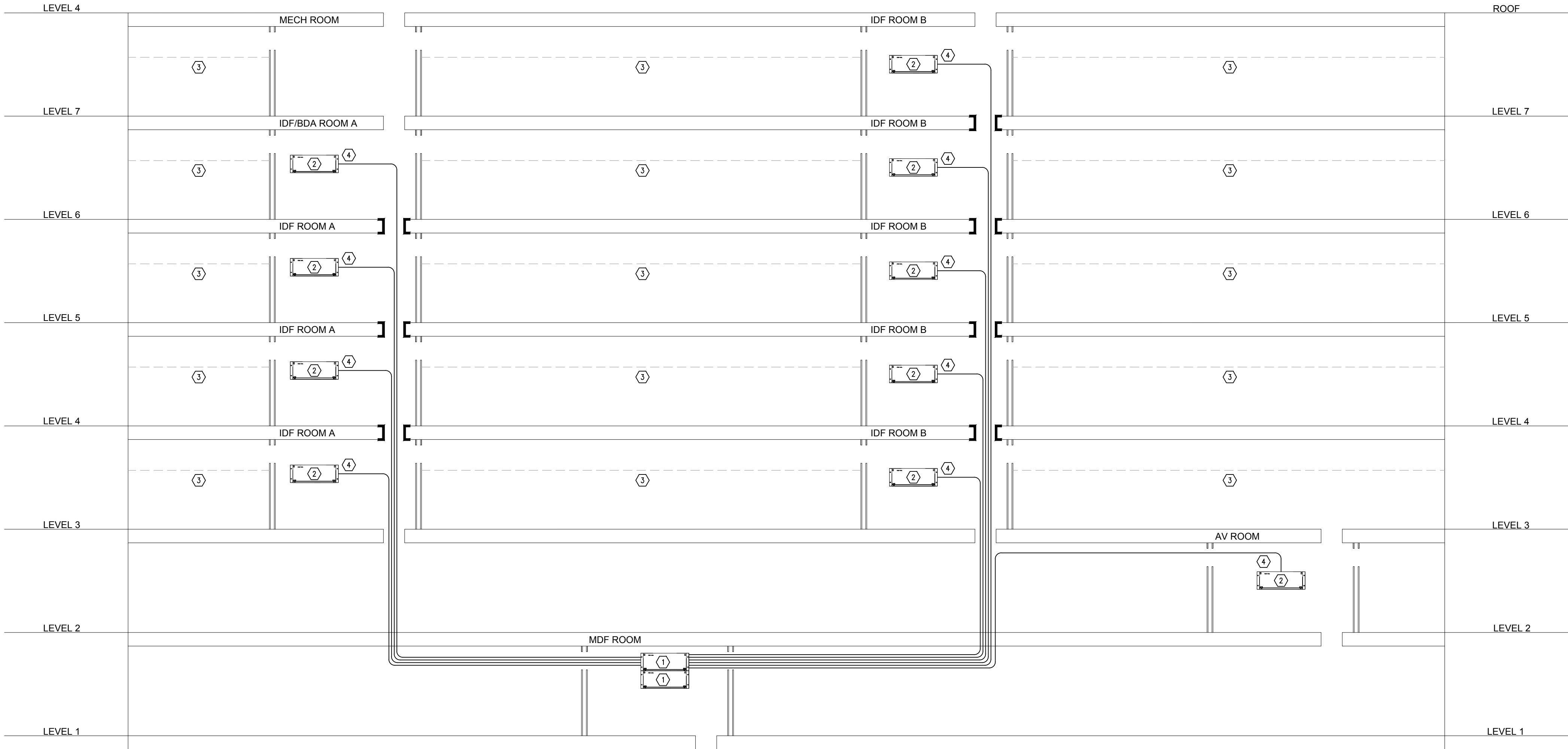
GROUNDING RISER -  
TELECOM

DRAWING NO.  
T0.16

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1 FIBER RISER  
SCALE: NONE

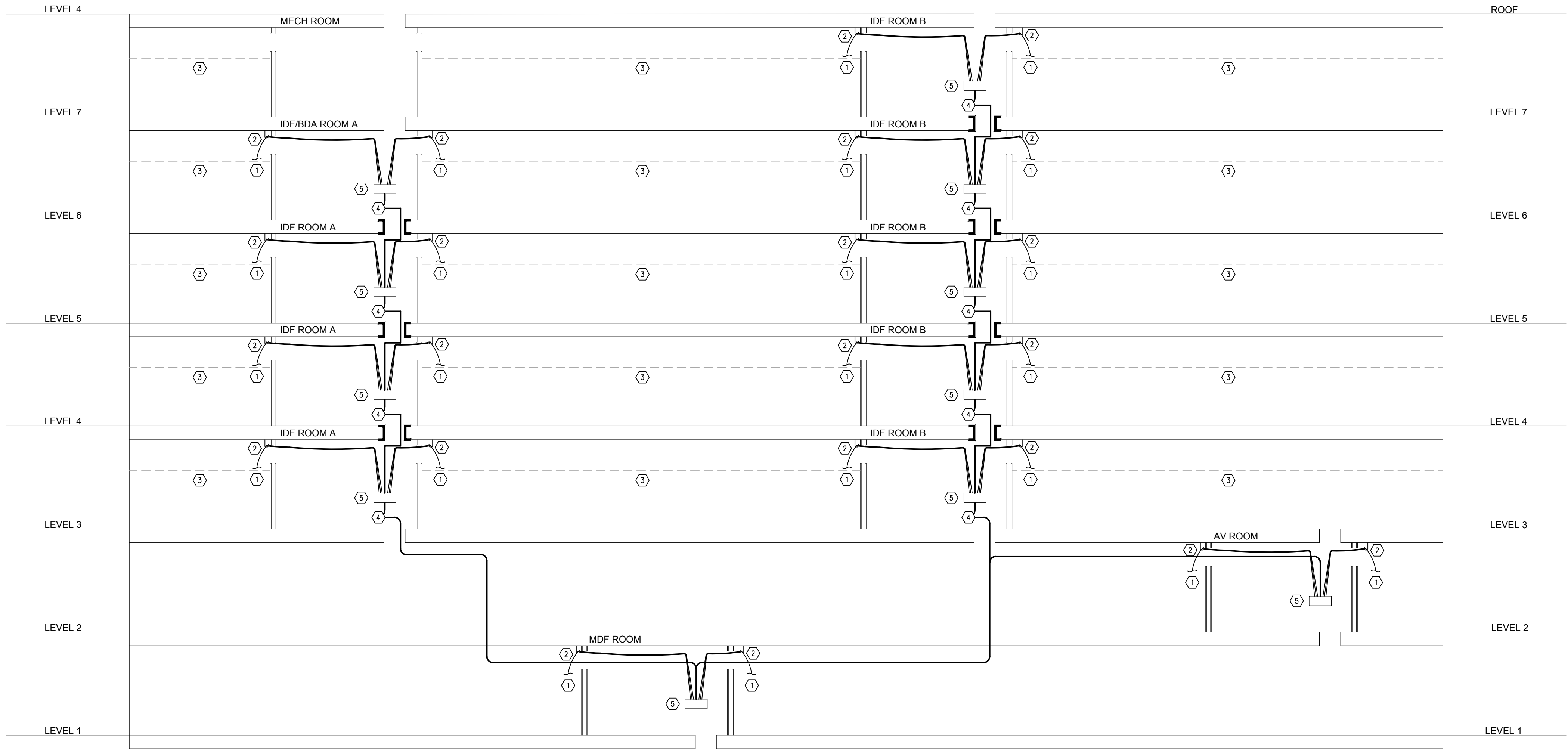
KEY NOTES: FIBER CABLE RISER

- ① ONE (1) 96-PORT RACK-MOUNTED FIBER ENCLOSURES IN MDF ROOM.
- ② ONE (1) 12-PORT RACK-MOUNTED FIBER ENCLOSURE PER IDF ROOM, TYPICAL.
- ③ CEILING.
- ④ ROUTE TWELVE (12) STRANDS OF SINGLEMODE FIBER OPTIC CABLE TO EACH IDF ROOM INDIVIDUALLY; CABLING SHALL BE HOME RUN FROM FIRST FLOOR IDF/ERRC ROOM OF THE BUILDING TO EACH IDF ROOM IN A TRUE STAR CONFIGURATION. TERMINATE SIX (6), LEAVE OTHER SIX (6) DARK, TYPICAL.
- ⑤ ROUTE TWELVE (12) STRANDS OF SINGLE MODE FIBER OPTIC CABLE BETWEEN FIRST FLOOR IDF ROOMS OF EACH BUILDING. TERMINATE SIX (6), LEAVE THE OTHER SIX (6) DARK, TYPICAL. SEE SITE PLAN SHEET T1-01 FOR ROUTING BETWEEN BUILDINGS

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KEY NOTES: COAXIAL CABLE RISER

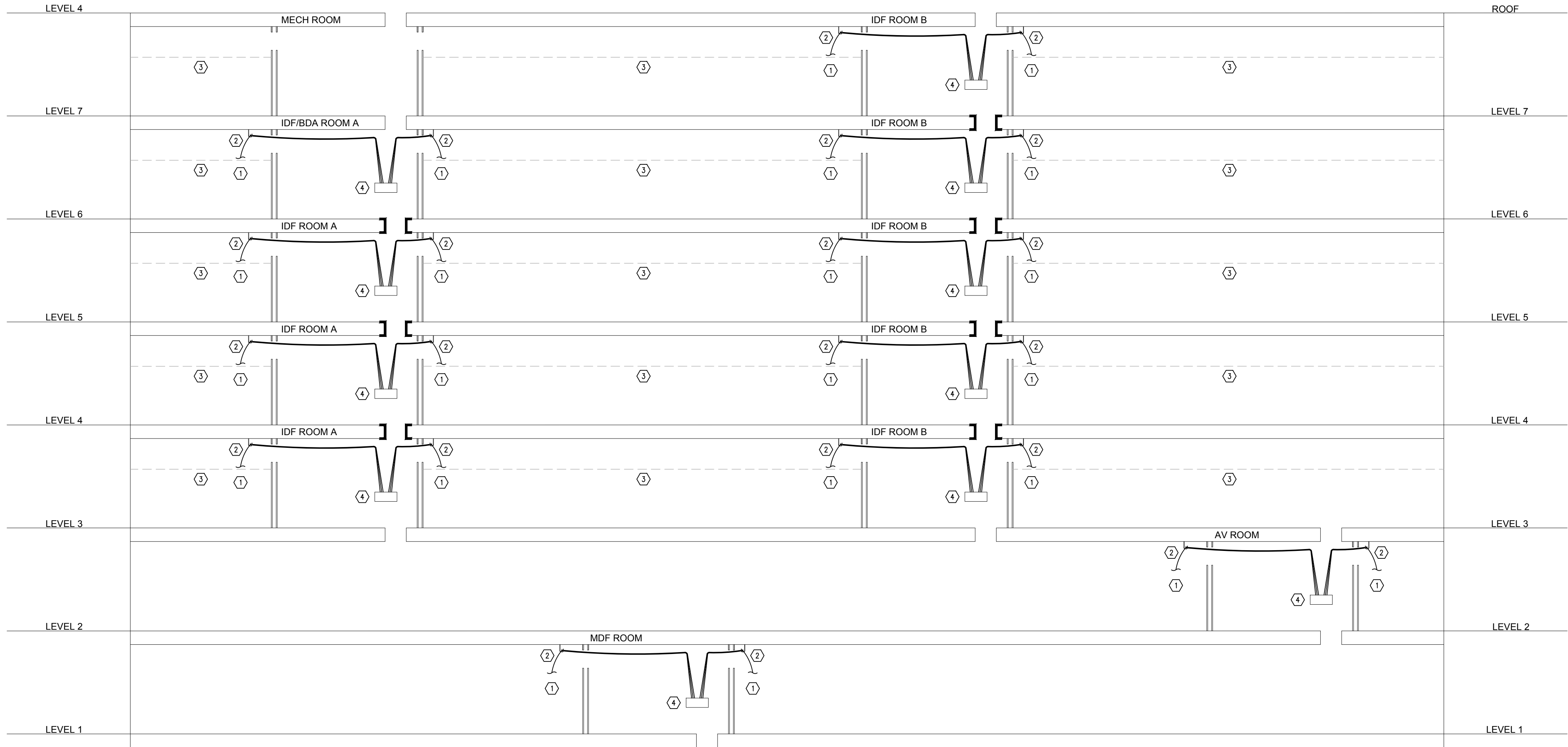
- ① COAXIAL CABLE TO SMC PANELS OR COMMON AREA OUTLETS. SEE FLOOR PLANS FOR EXACT DEVICE LOCATIONS & QUANTITIES. FOR REFERENCE, COPPER CAT6 CABLING HOME RUNS TO RESIDENTIAL UNITS & COMMON AREA OUTLETS SHALL FOLLOW THE SAME PATHWAYS & SETS OF STANDARDS.
- ② PLASTIC J-HOOKS ABOVE CEILING FOR COAXIAL CABLING. PROVIDE SPACING PER BICSI STANDARDS.
- ③ CEILING.
- ④ TWO (2) HARD-LINE 0.625 COAXIAL CABLES
- ⑤ WALL/BACKBOARD-MOUNTED TELEVISION HEAD END EQUIPMENT OR SPLITTERS. PROVIDE QUANTITY AS REQUIRED TO SERVE ALL HOME RUNS TO UNIT SMC PANELS & COMMON AREA TELEVISION (COAXIAL) OUTLETS.

1 COAXIAL RISER DIAGRAM  
SCALE: NONE

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1 **COPPER RISER DIAGRAM**  
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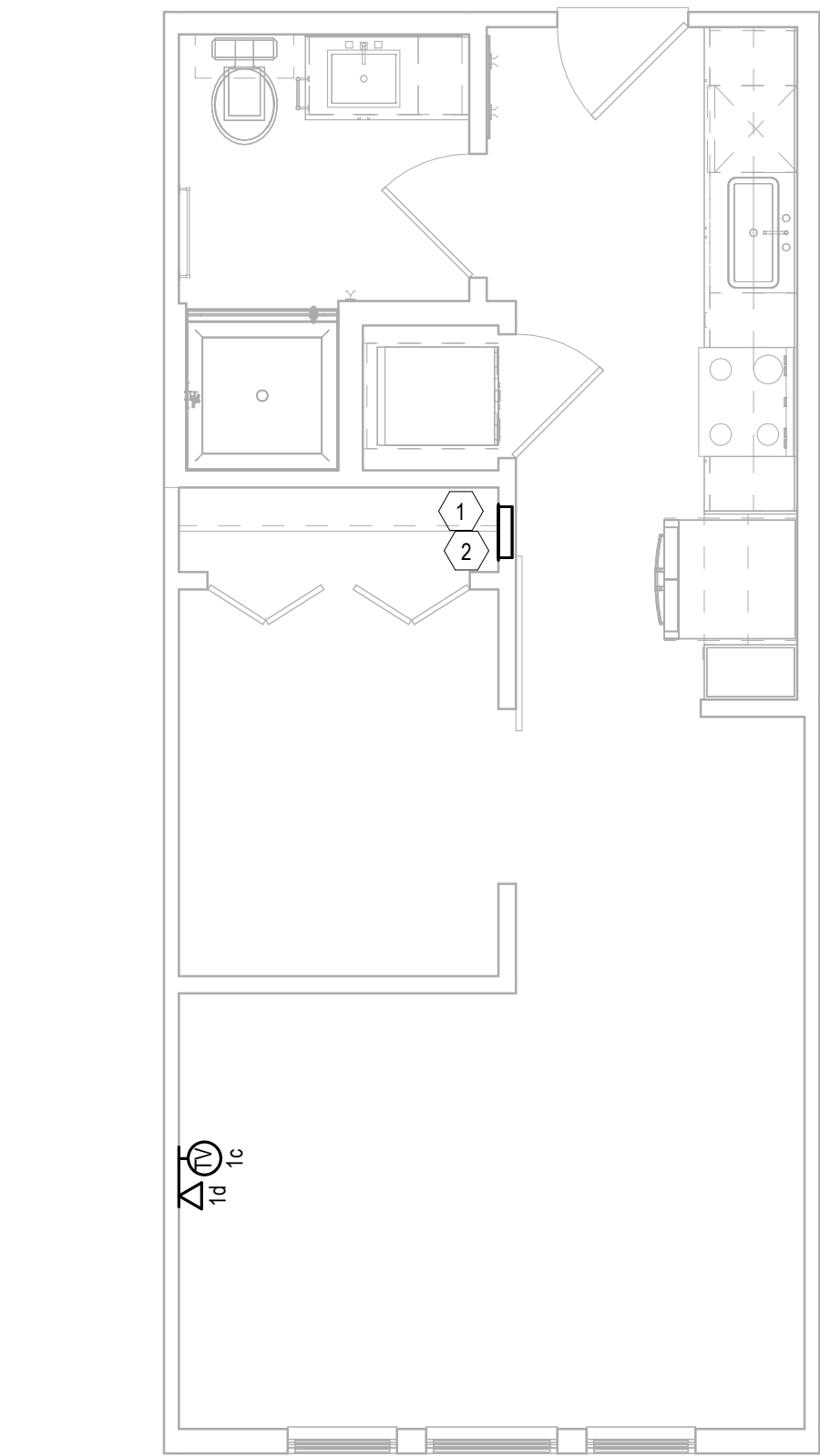
**KEY NOTES: COPPER CABLE RISER**

- ① CAT6 CABLE TO SMC PANELS OR COMMON AREA OUTLETS. SEE FLOOR PLANS FOR EXACT DEVICE LOCATIONS & QUANTITIES.
- ② PLASTIC J-HOOKS ABOVE CEILING FOR COAXIAL CABLING. PROVIDE SPACING PER BICSI STANDARDS.
- ③ CEILING.
- ④ RACK-MOUNTED CAT6 PATCH PANEL. PROVIDE QUANTITY AS REQUIRED TO SERVE ALL HOME RUNS TO UNIT SMC PANELS & COMMON AREA VOICE/DATA OUTLETS. CAMERAS, WIRELESS ACCESS POINTS, & ACCESS CONTROL POWER SUPPLIES SHALL BE HOME RUN TO POWER-OVER-ETHERNET (PoE) CAPABLE CAT6 PATCH PANELS. SEE FIBER RISER DIAGRAM ON SHEET T0-12 FOR DATA CONNECTIVITY BETWEEN TELECOM ROOMS.

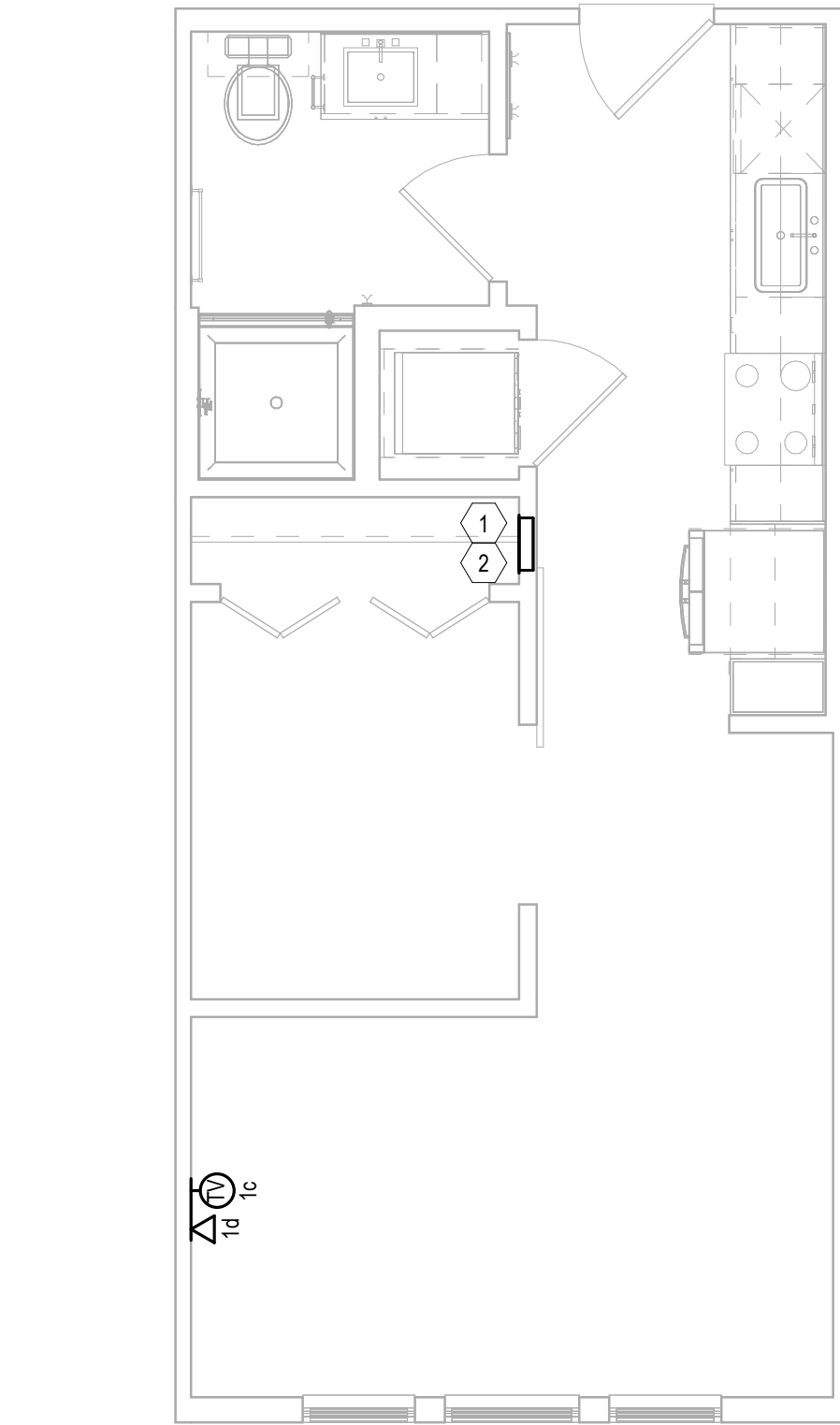
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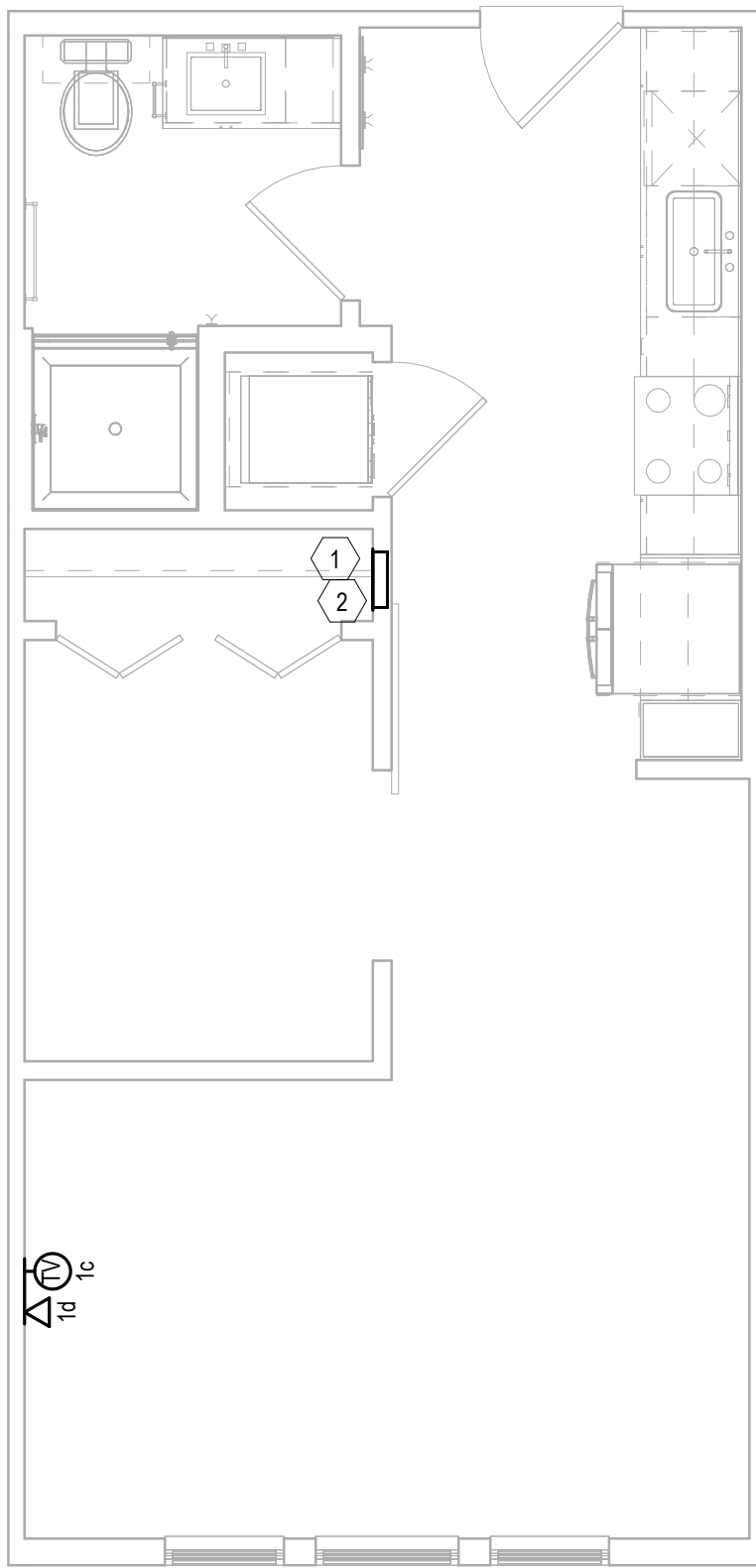




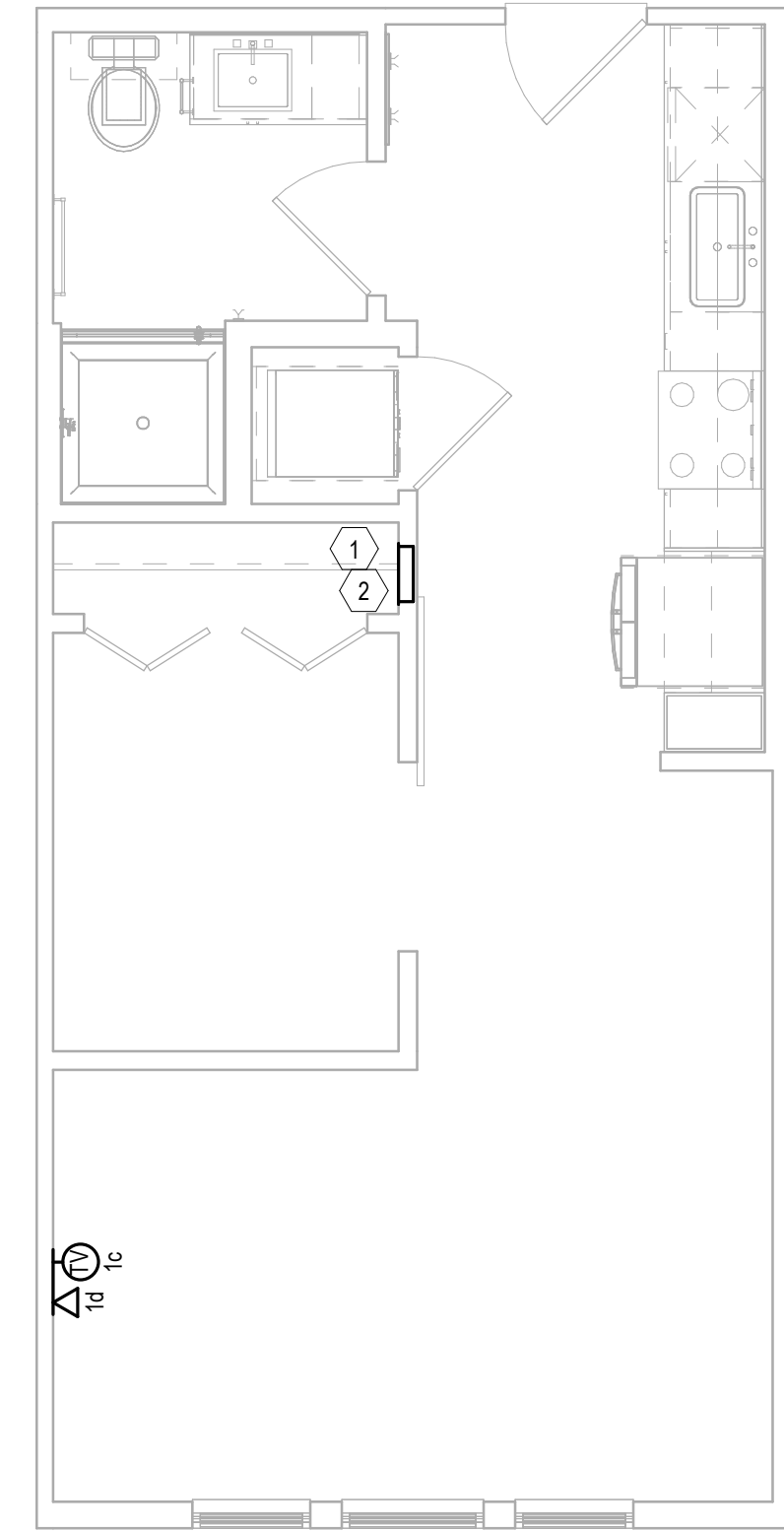
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7 UNIT S1F  
Scale: 1/4" = 1'-0"



6 UNIT S1E  
Scale: 1/4" = 1'-0"



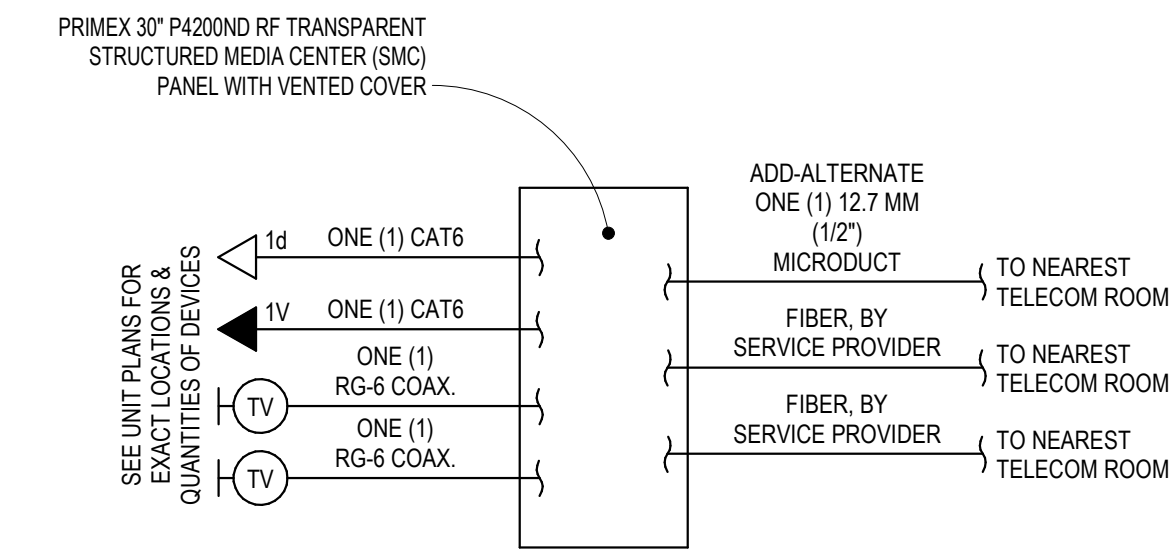
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#### KEY NOTES: UNIT PLANS

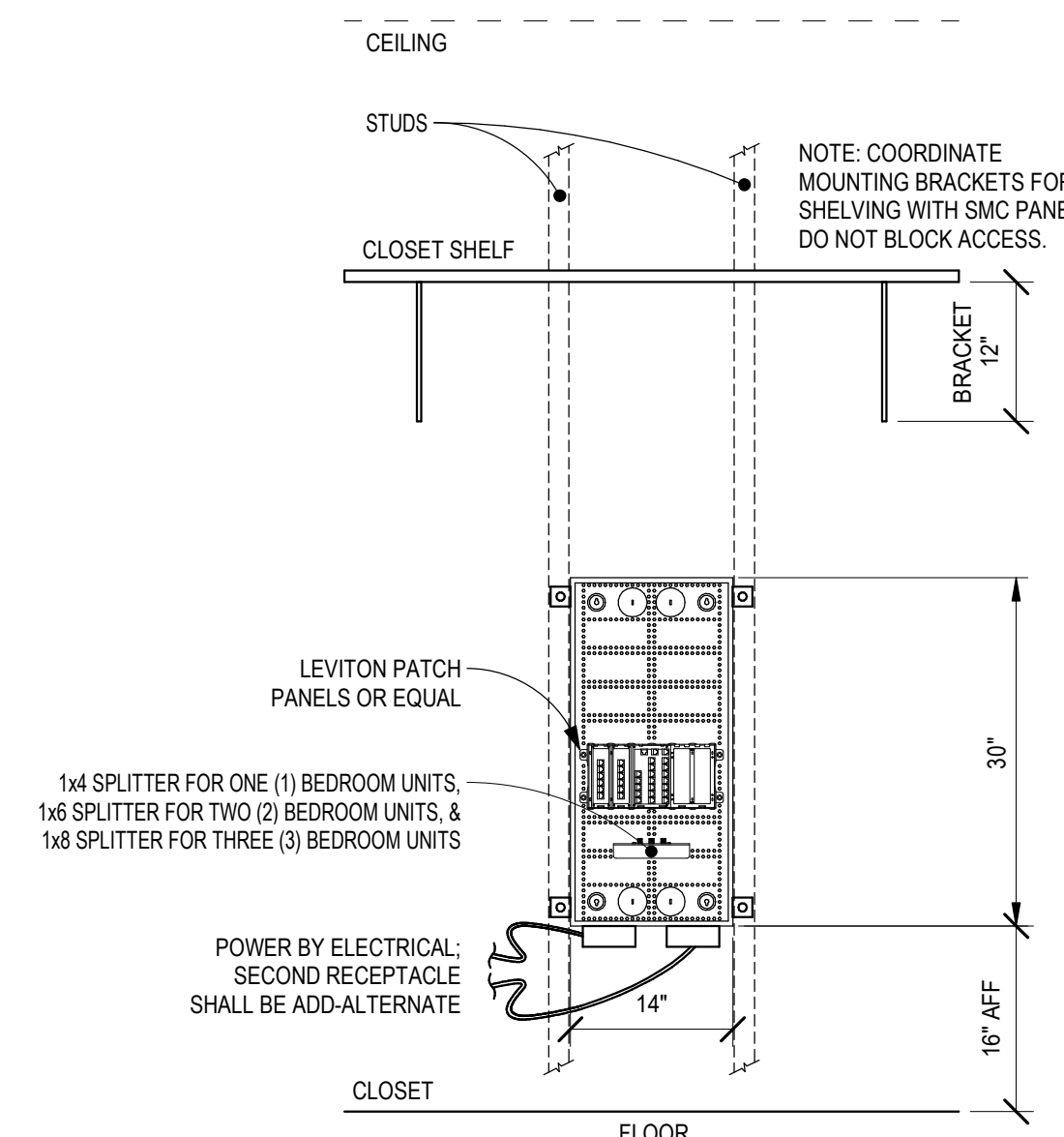
- STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

#### GENERAL NOTES: UNIT PLANS

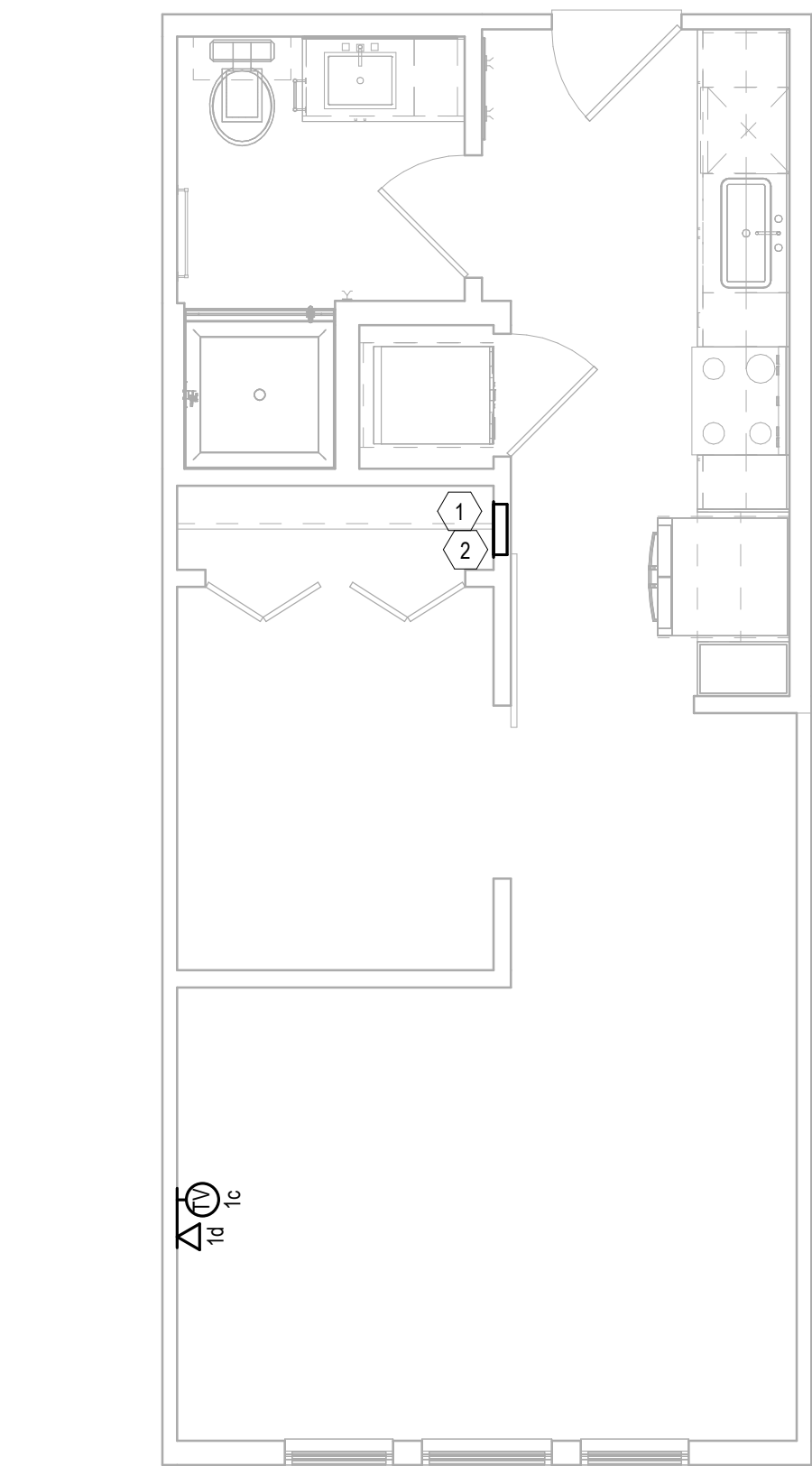
- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED). ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.



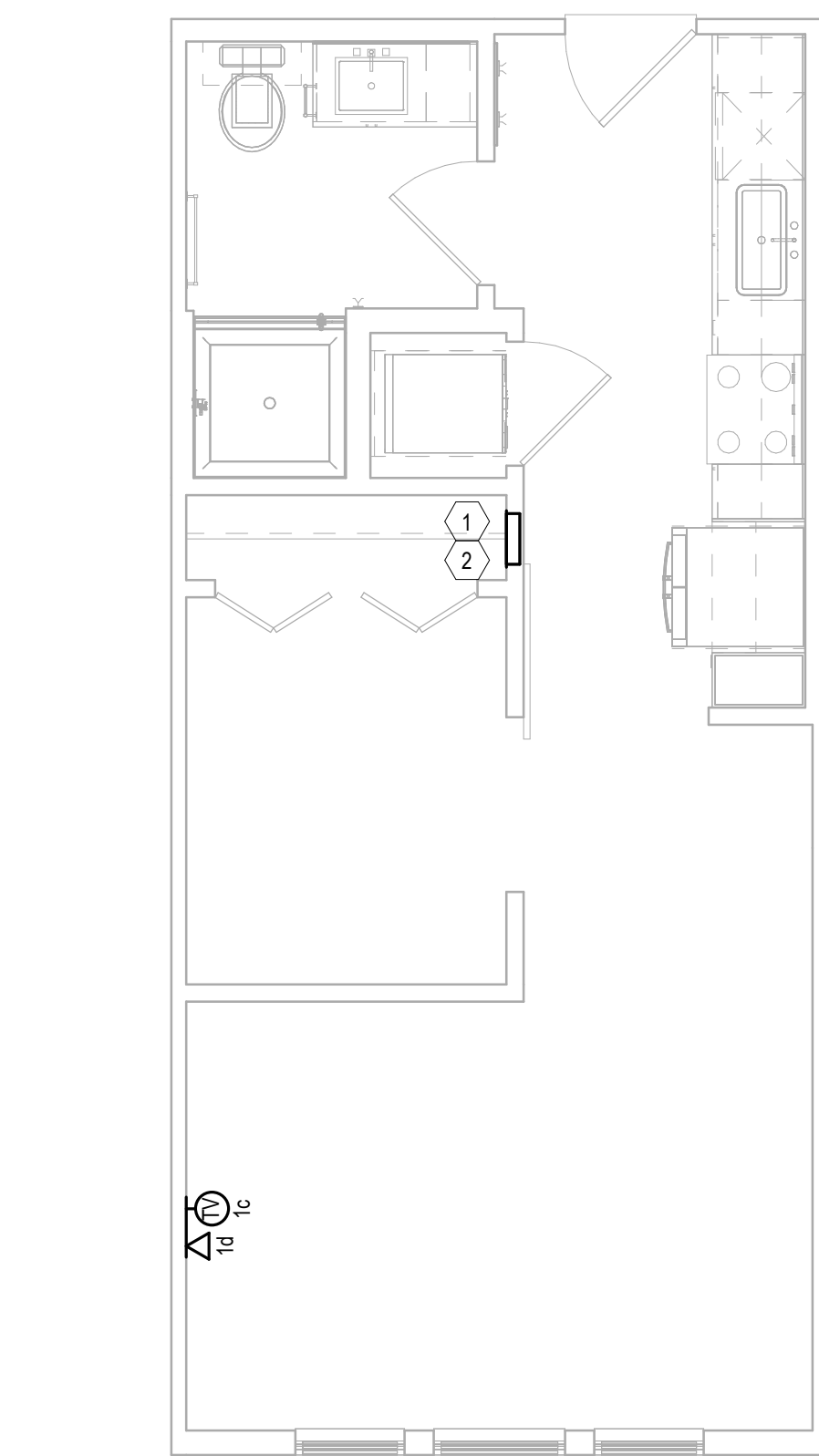
#### A UNIT HOME RUNS DETAIL (TYP.) Scale: 3/4" = 1'-0"



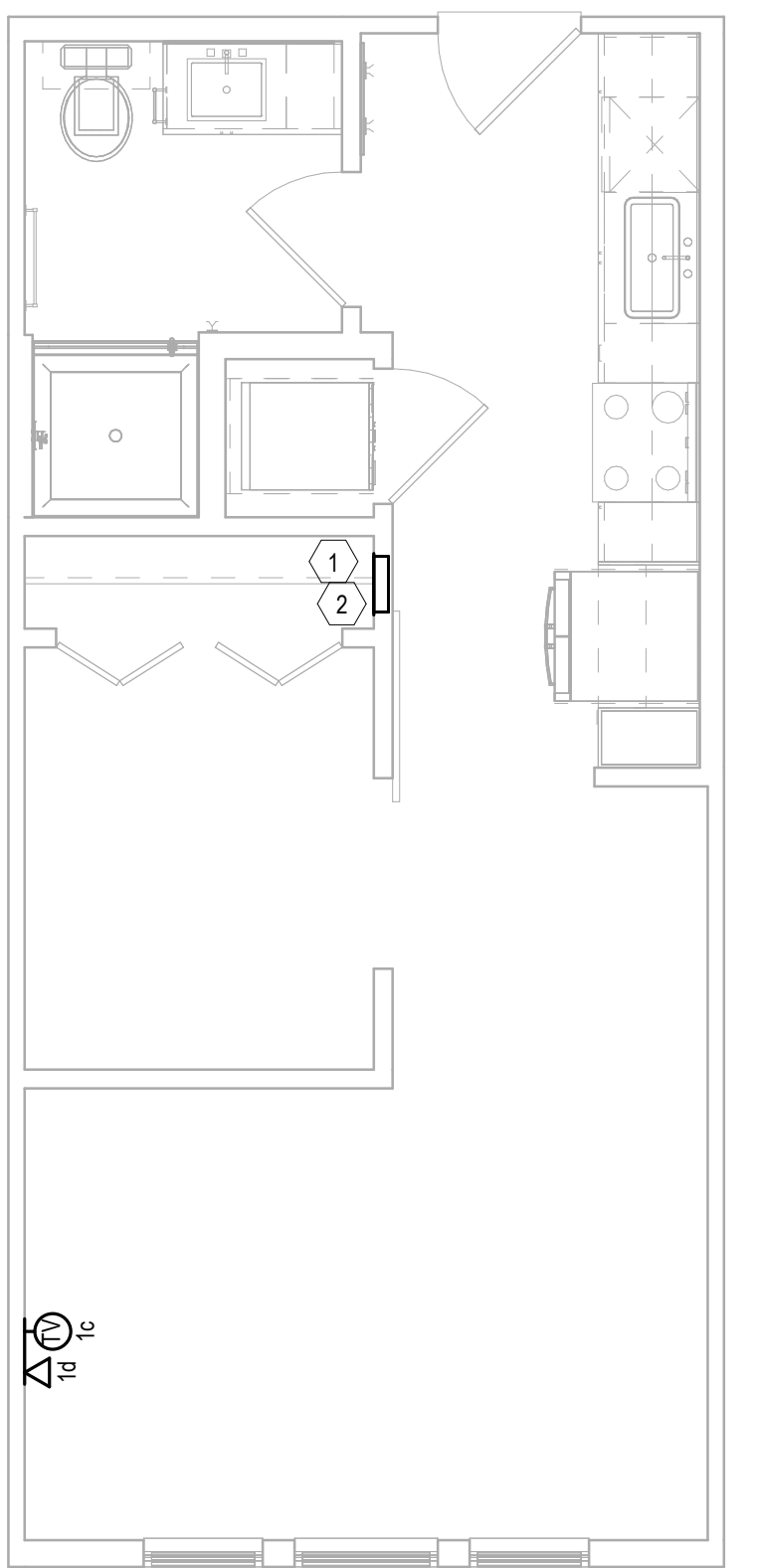
#### B STRUCTURED MEDIA CENTER PLACEMENT ELEVATION DETAIL (TYP.) Scale: 3/4" = 1'-0"



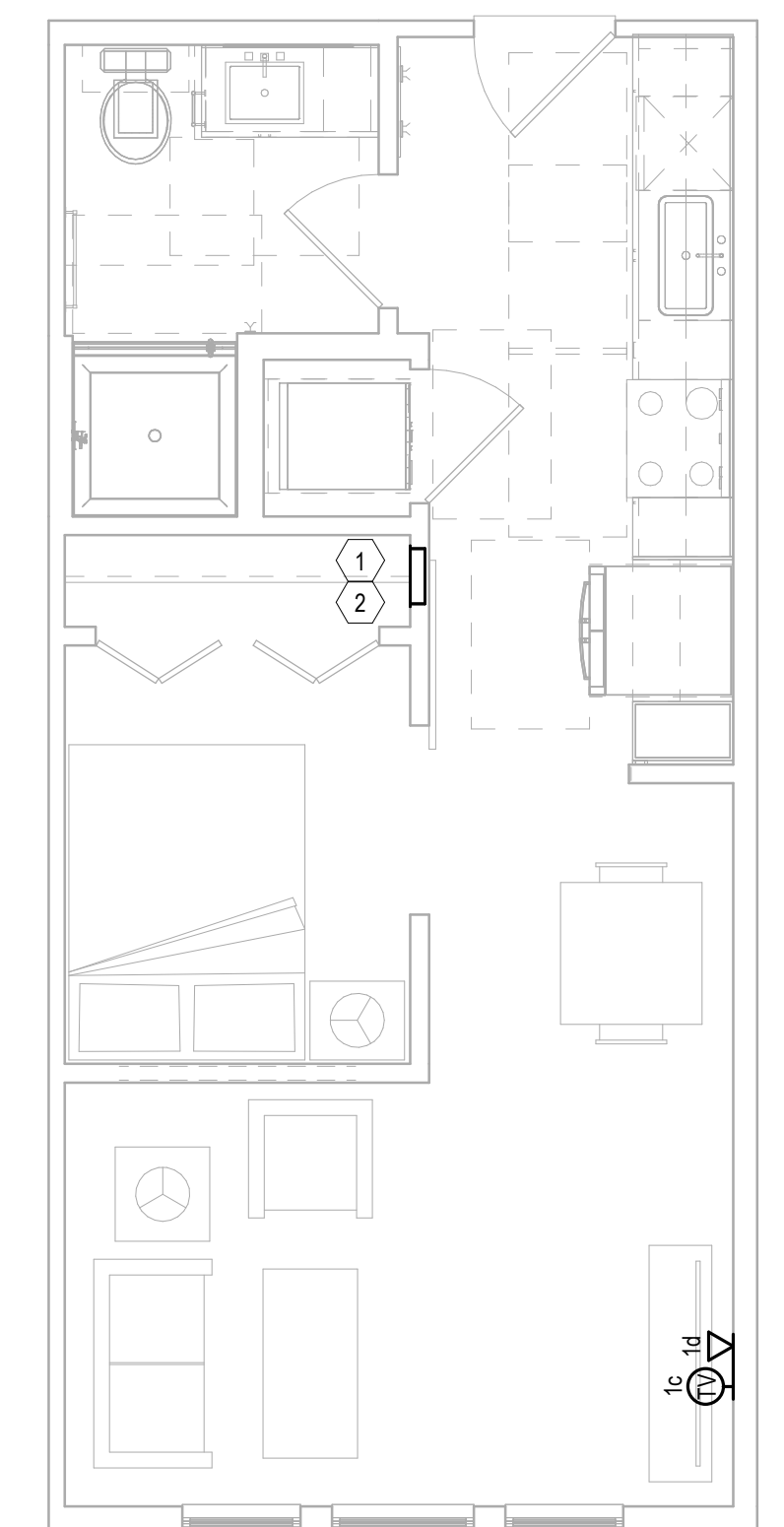
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3 UNIT S1B  
Scale: 1/4" = 1'-0"



2 UNIT S1A  
Scale: 1/4" = 1'-0"



1 UNIT S1  
Scale: 1/4" = 1'-0"

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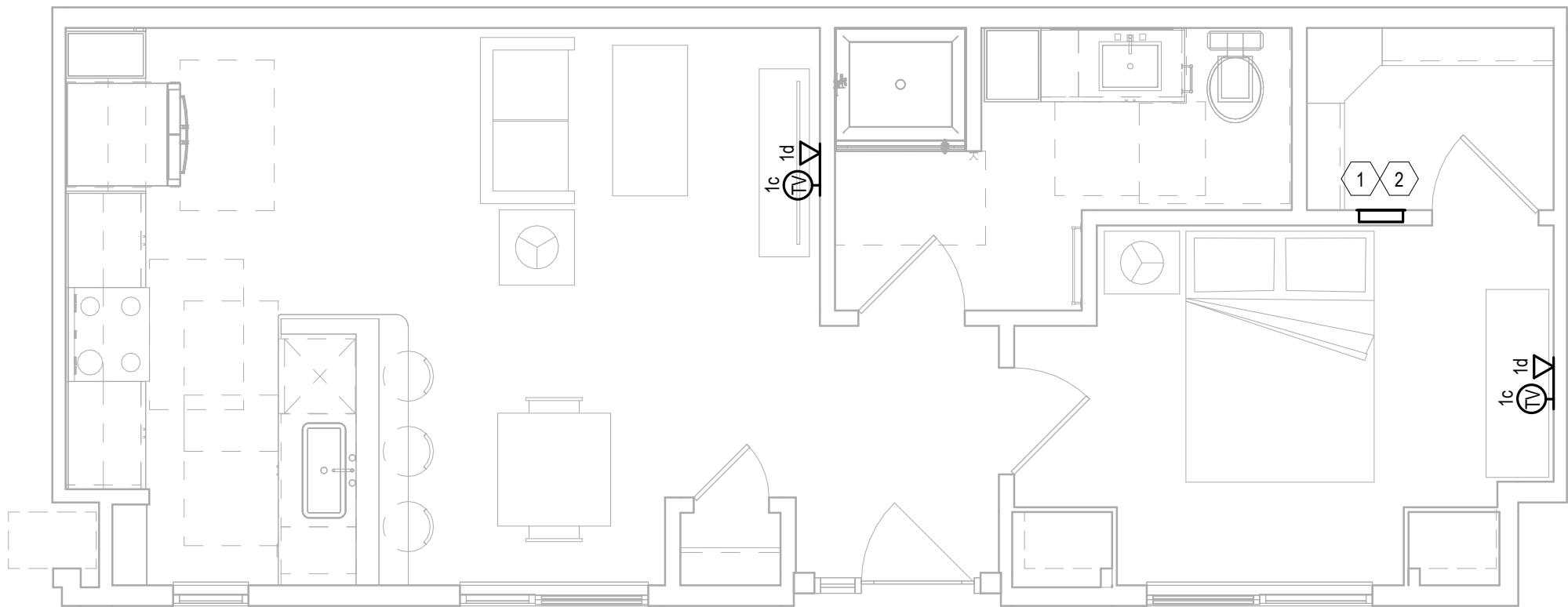
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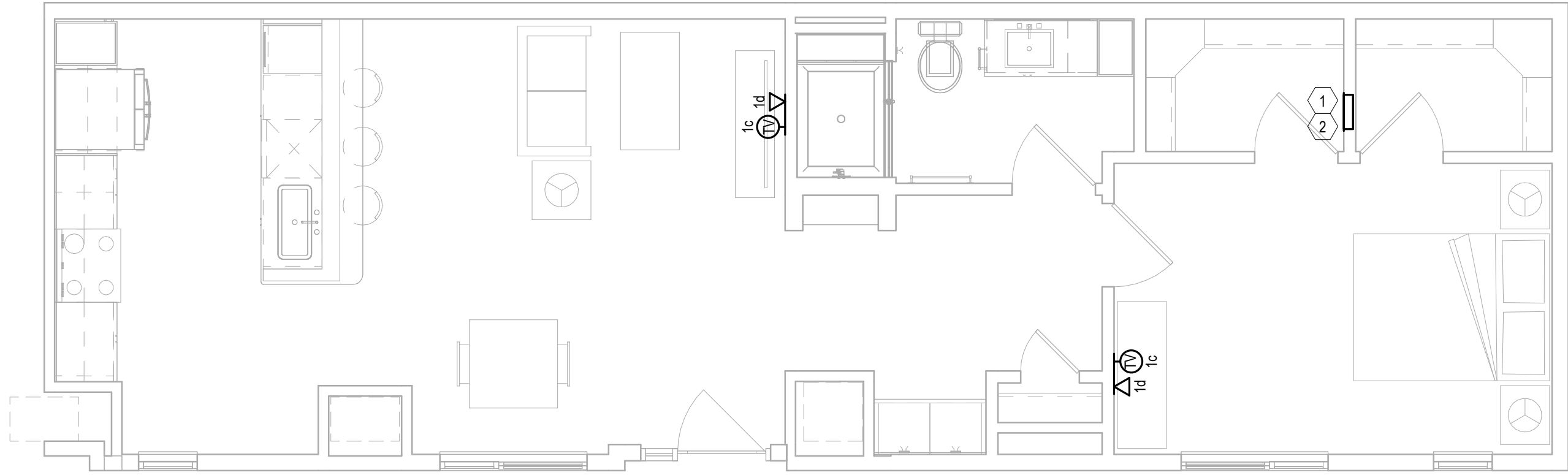
UNIT PLANS

DRAWING NO.  
**T2.00**

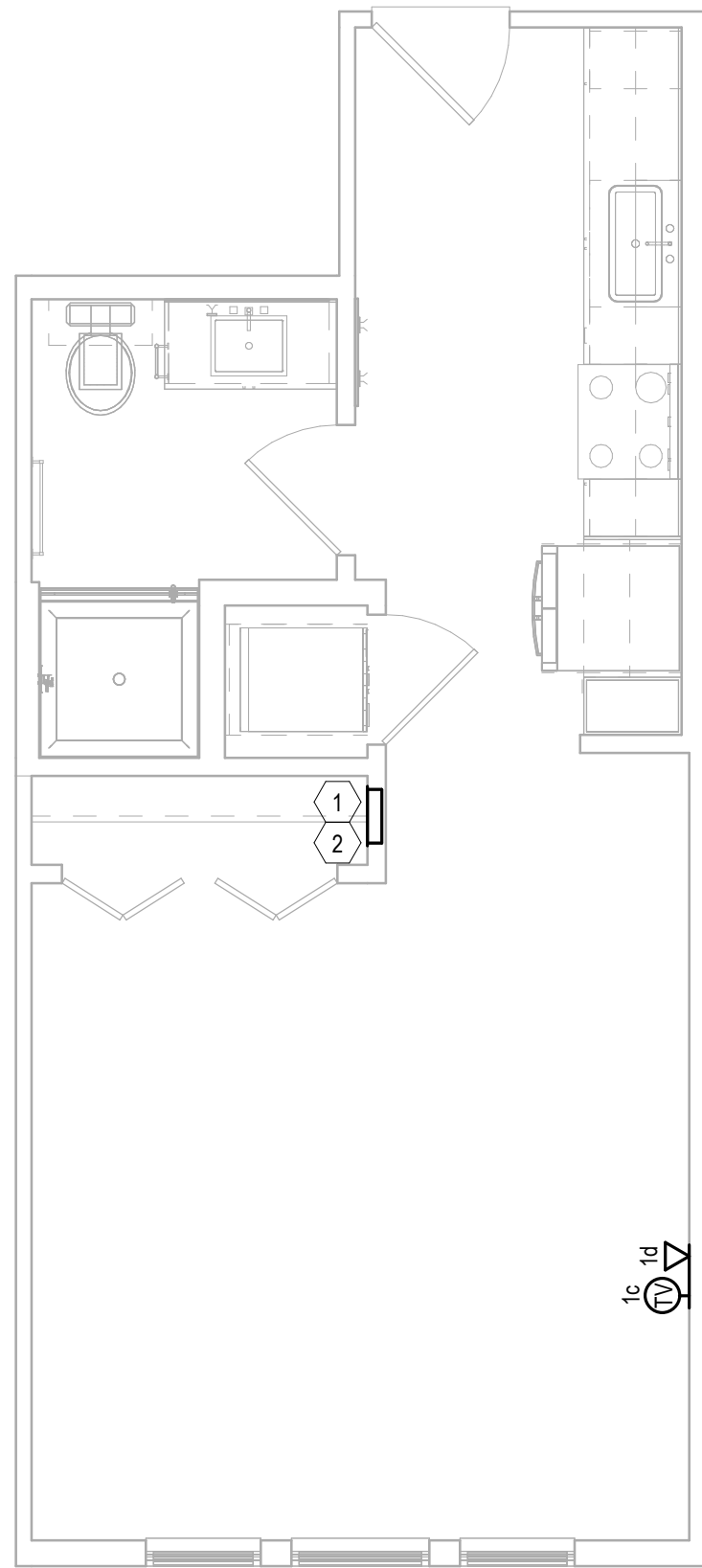
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2 UNIT A0Y  
Scale: 1/4" = 1'-0"



3 UNIT A0Z  
Scale: 1/4" = 1'-0"



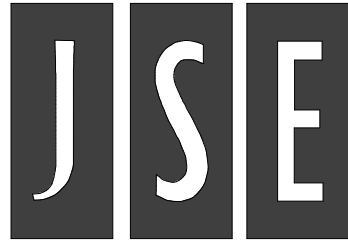
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#### KEY NOTES: UNIT PLANS

- STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

#### GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.

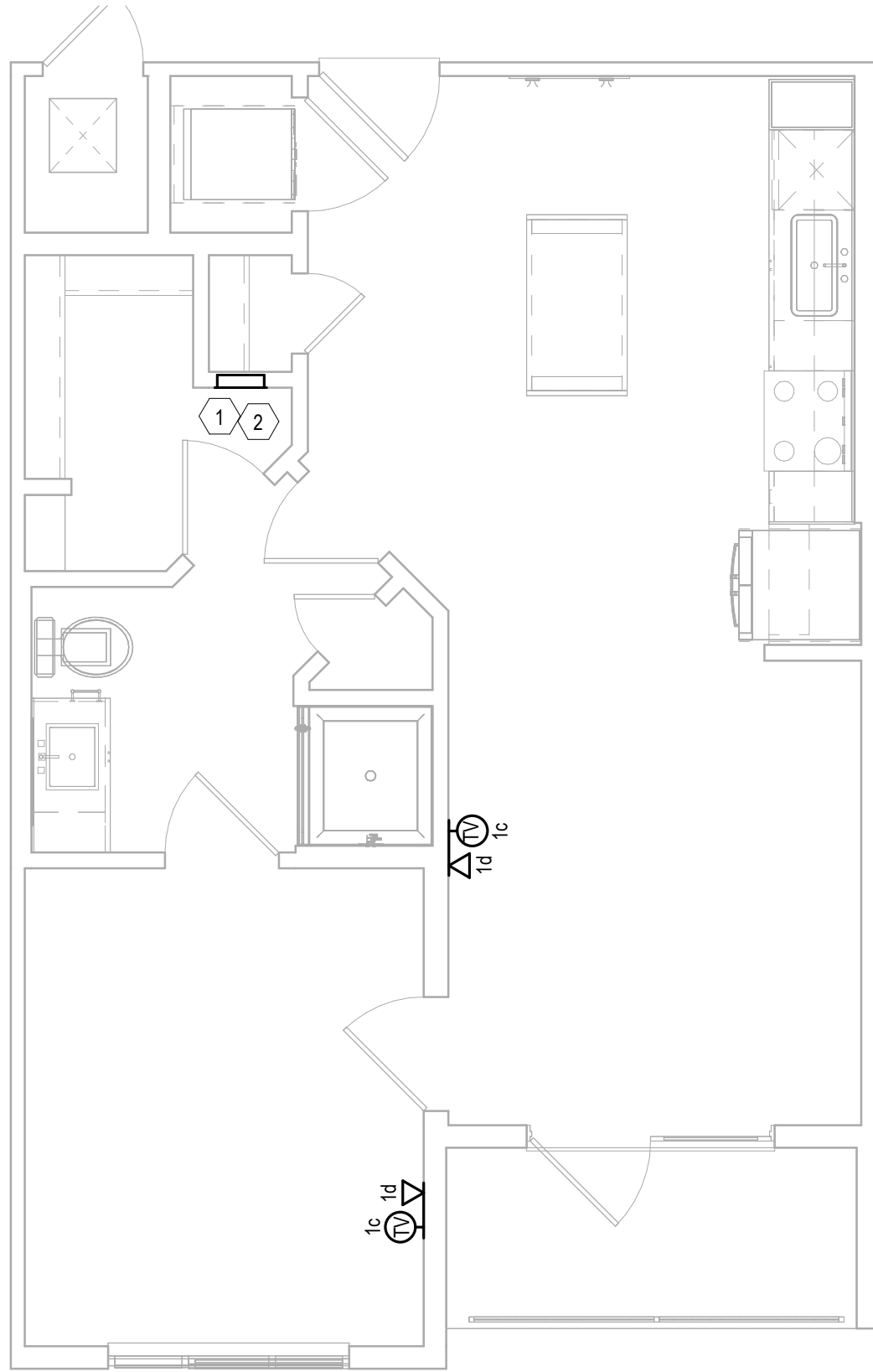


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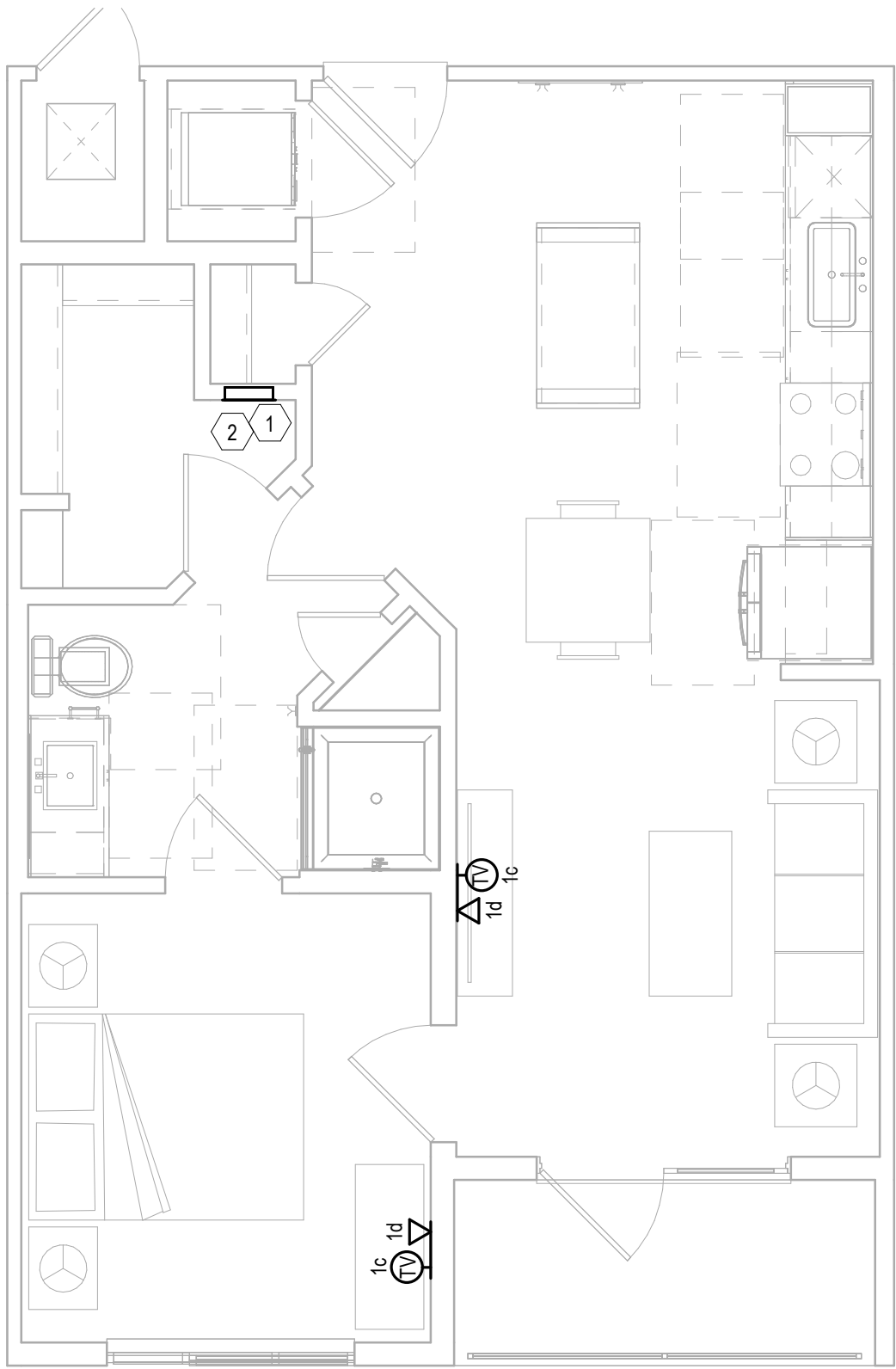
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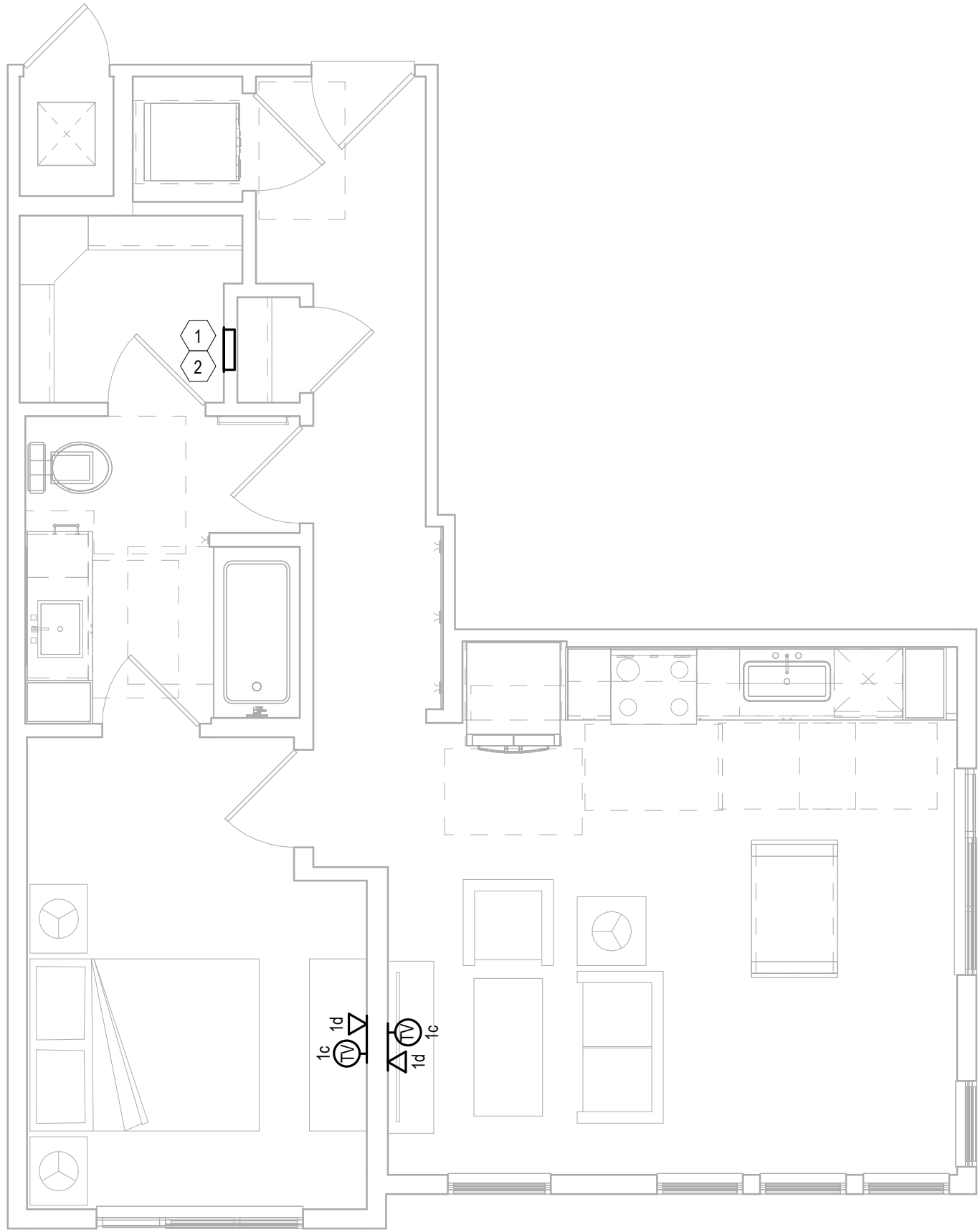
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2 UNIT A2  
Scale: 1/4" = 1'-0"



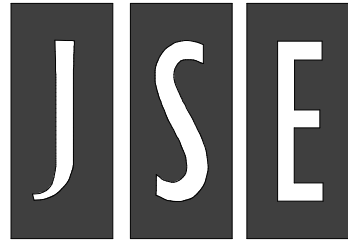
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KEY NOTES: UNIT PLANS

- 1 STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- 2 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- 3 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.



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Project Number: 23080076

Drawn By: Author

Checked By: Checker

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SHEET TITLE:

UNIT PLAN

DRAWING NO.

T2.02



2



3



1



4

JSE

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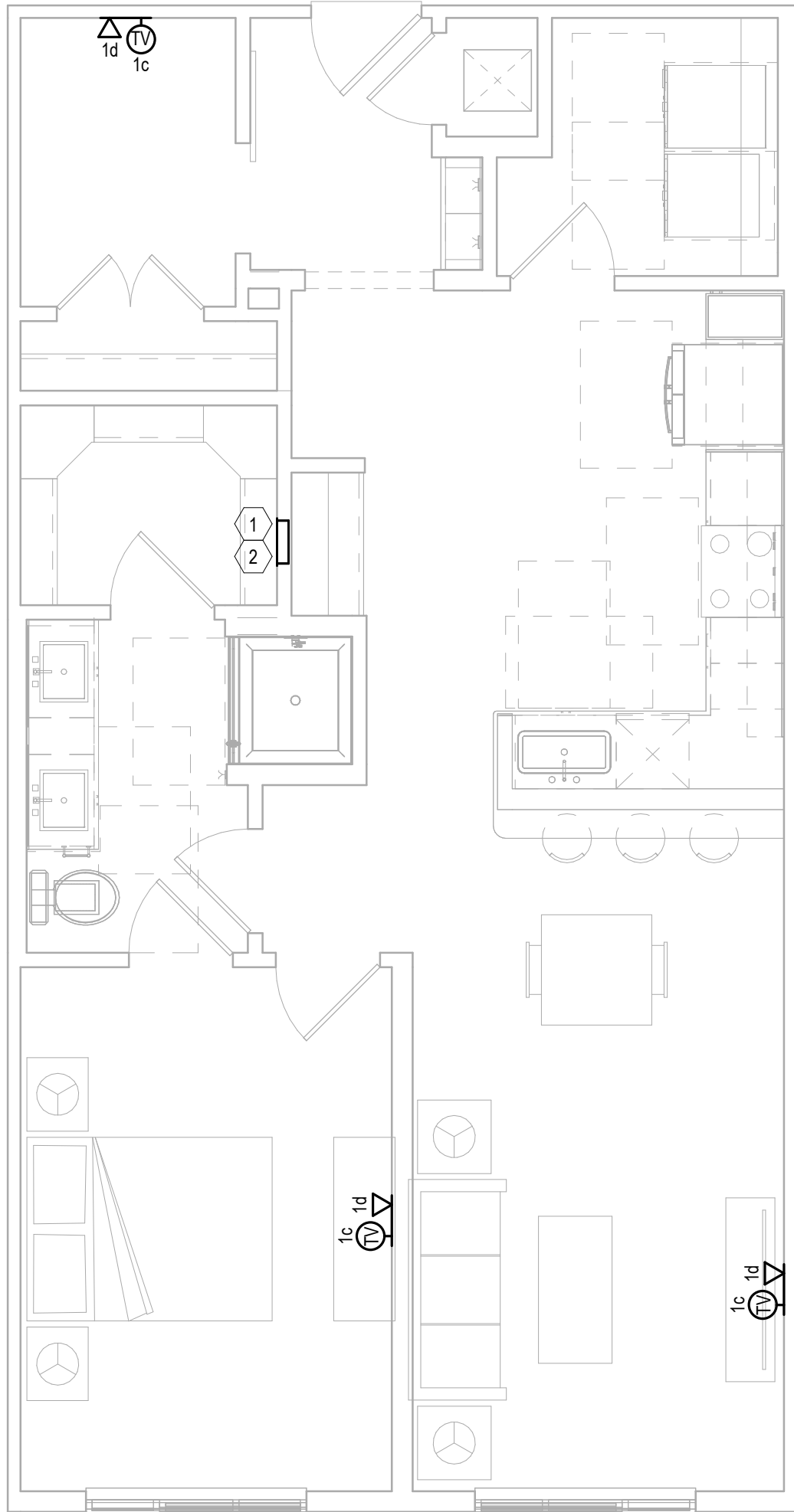
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A Development of  
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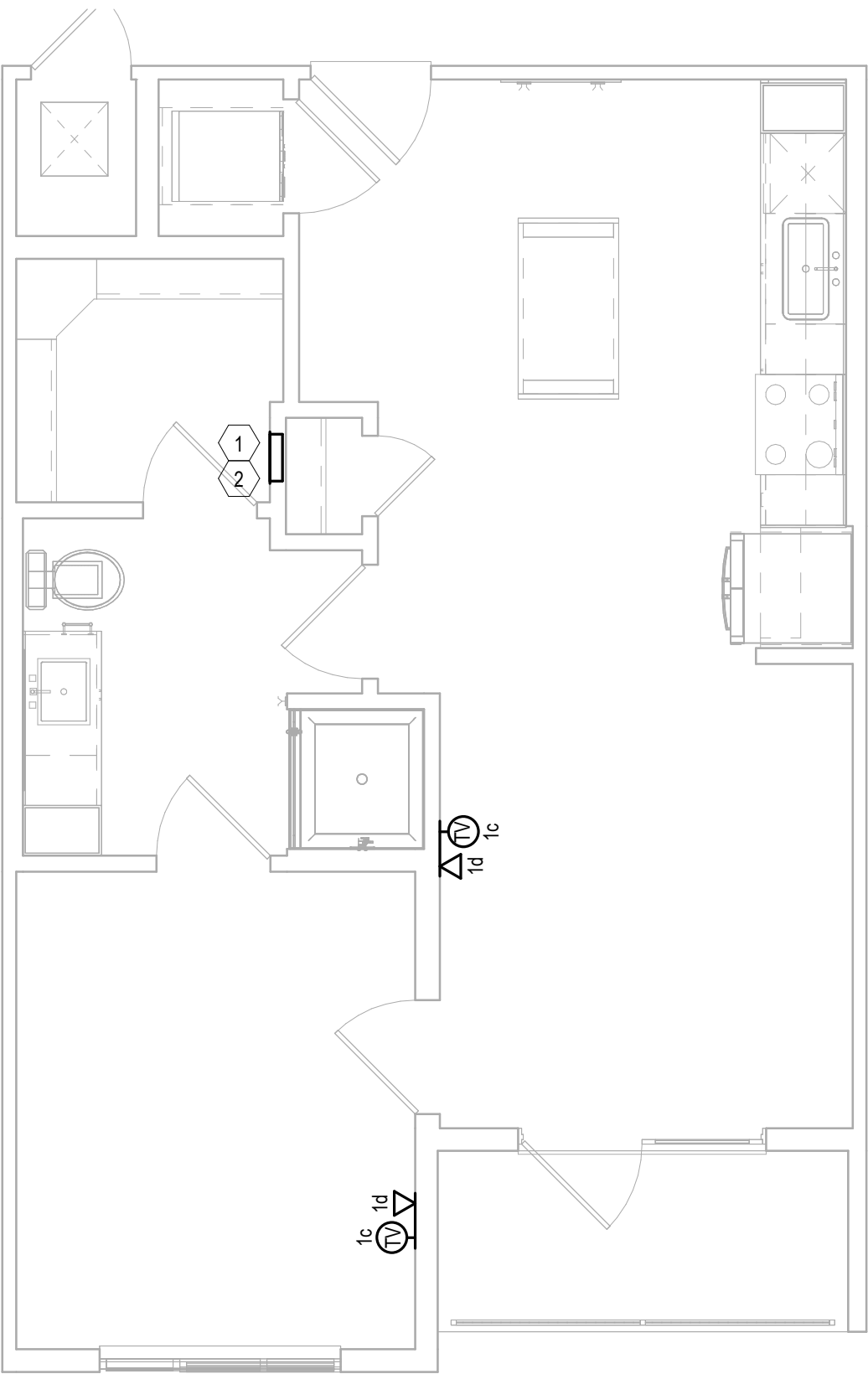
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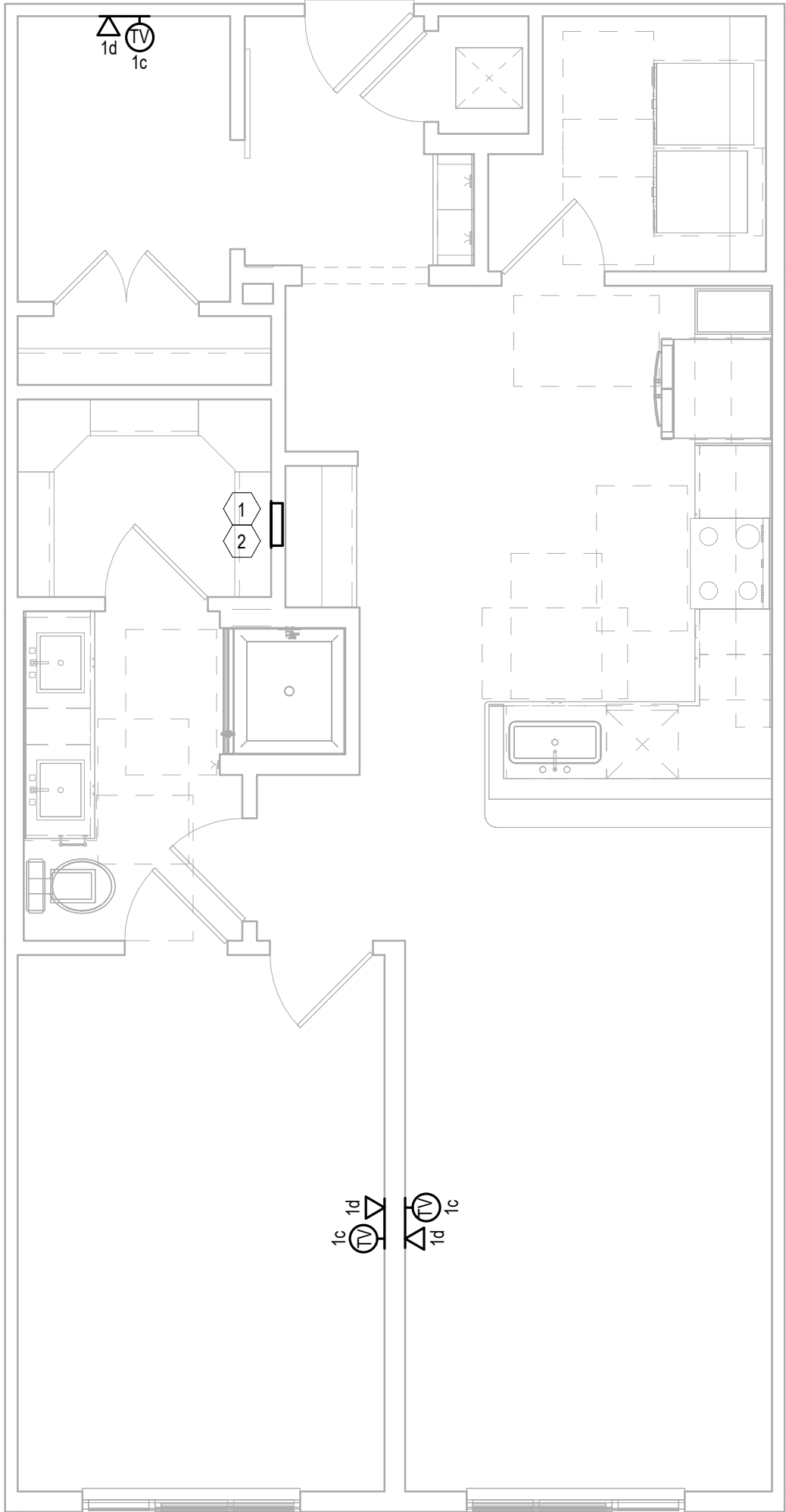




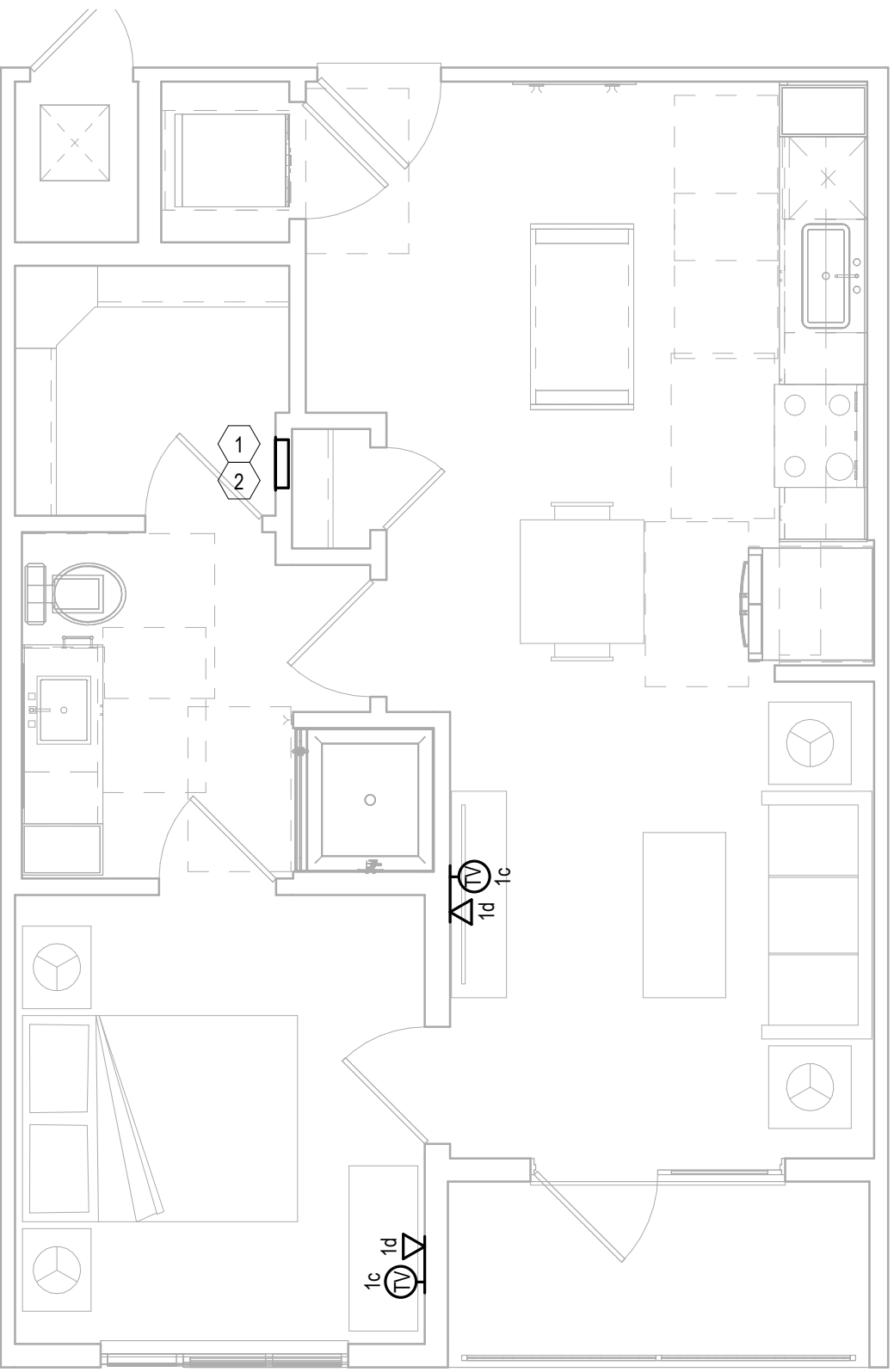
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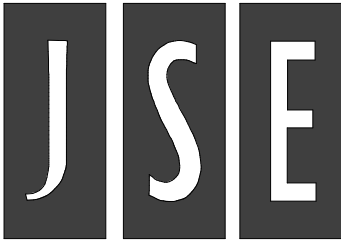
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#### KEY NOTES: UNIT PLANS

- STRUCTURED MEDIA ENCLOSURE: ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

#### GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.



Jordan & Skala Engineers

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p. 303.586.2375

Project Number: 23080076

Drawn By: Author

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GRANT STREET APARTMENTS  
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JOB NO.: 22035

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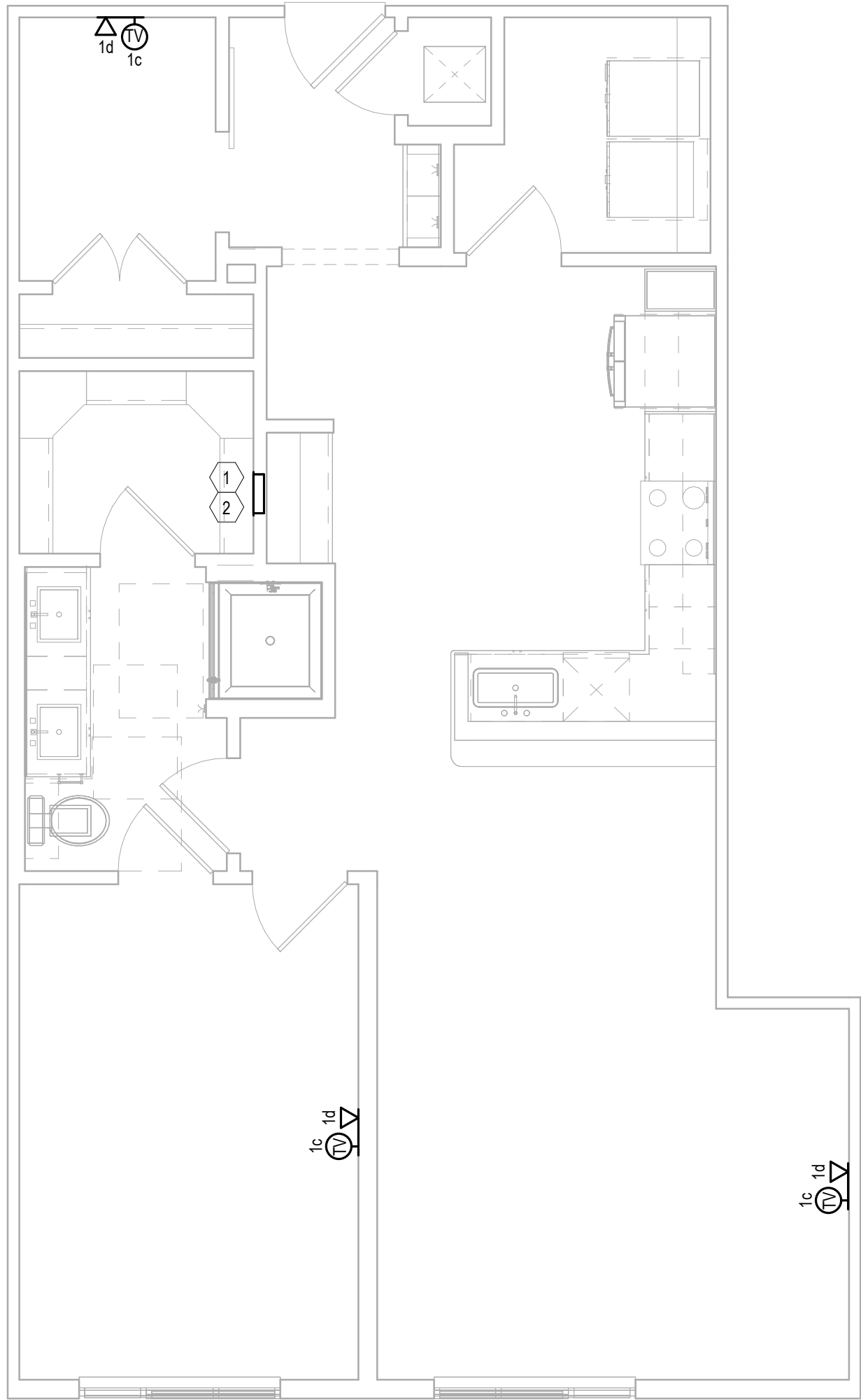
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DRAWING NO.

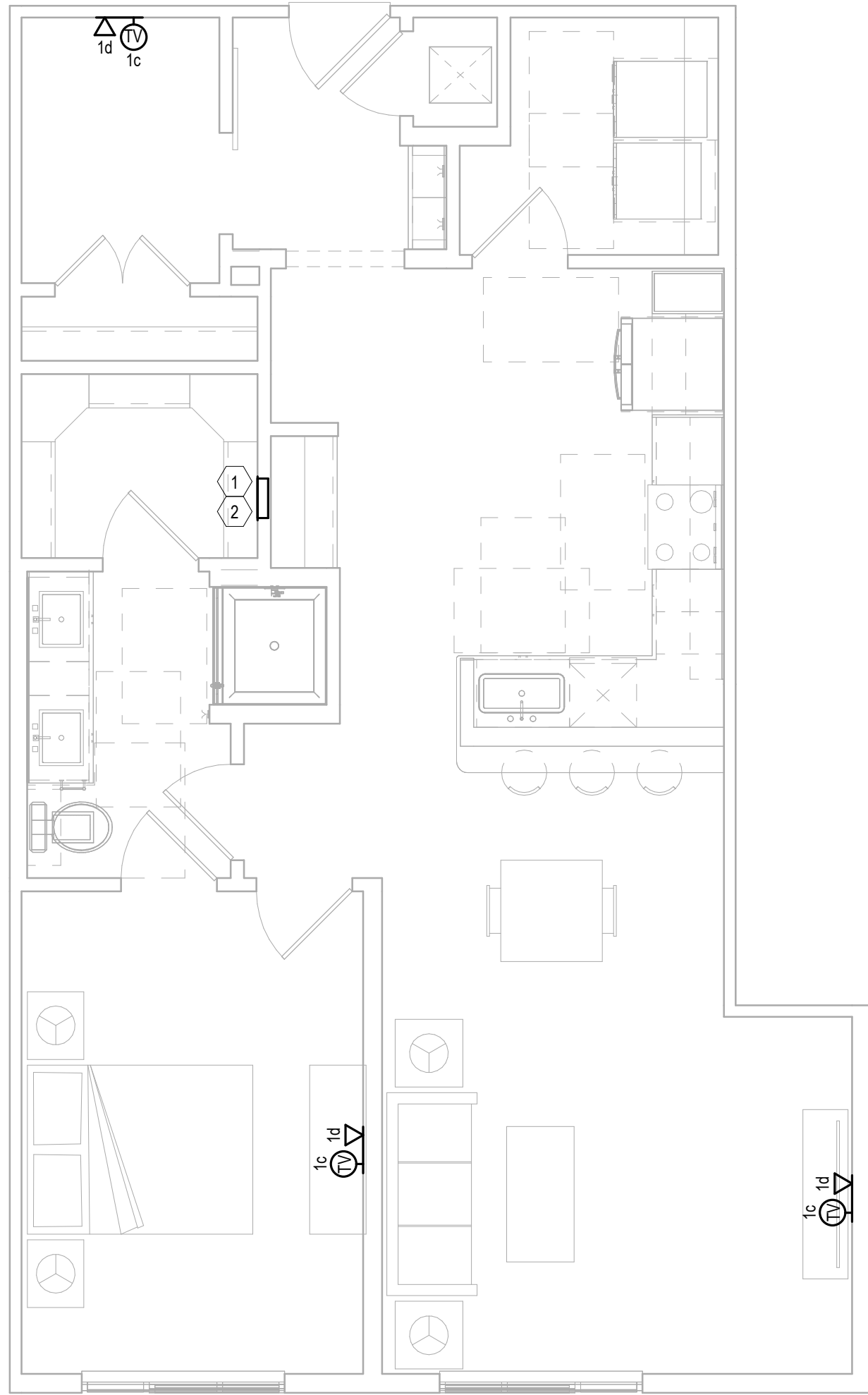
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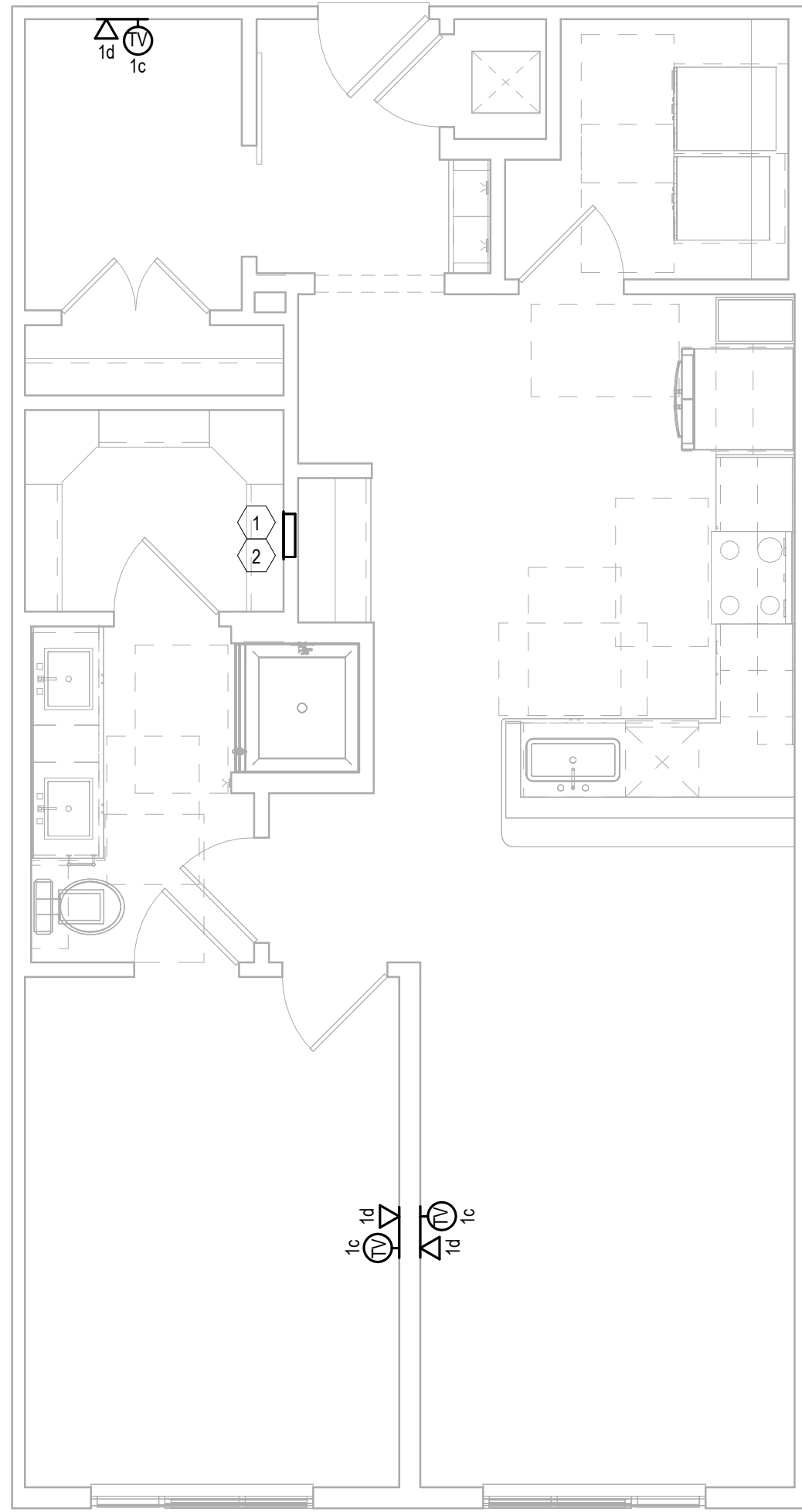
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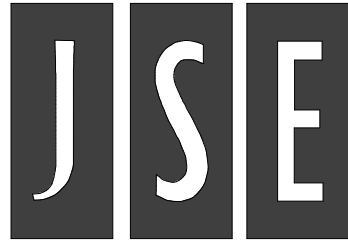


KEY NOTES: UNIT PLANS

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GENERAL NOTES: UNIT PLANS

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Project Number: 23080076

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UNIT PLAN

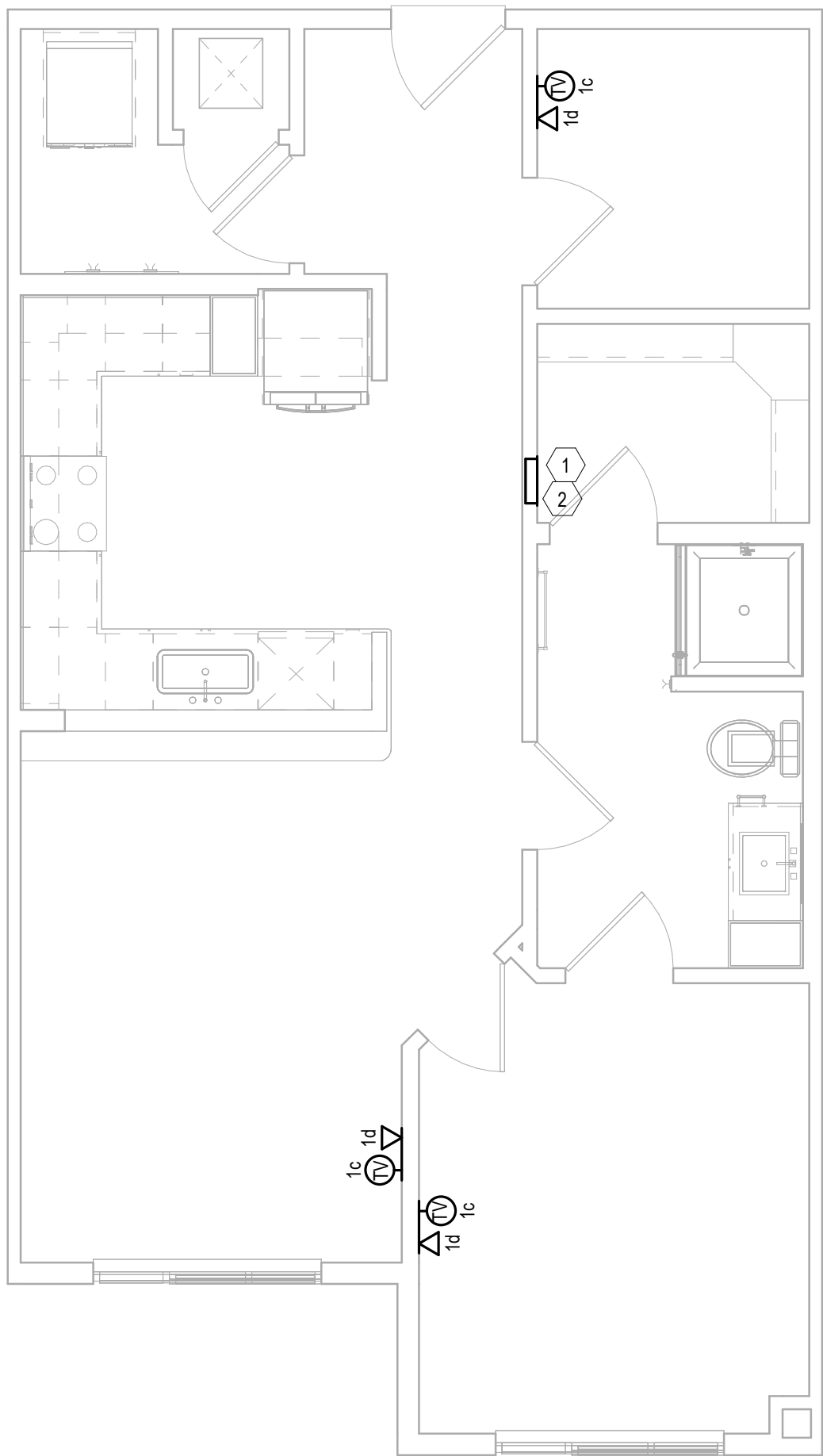
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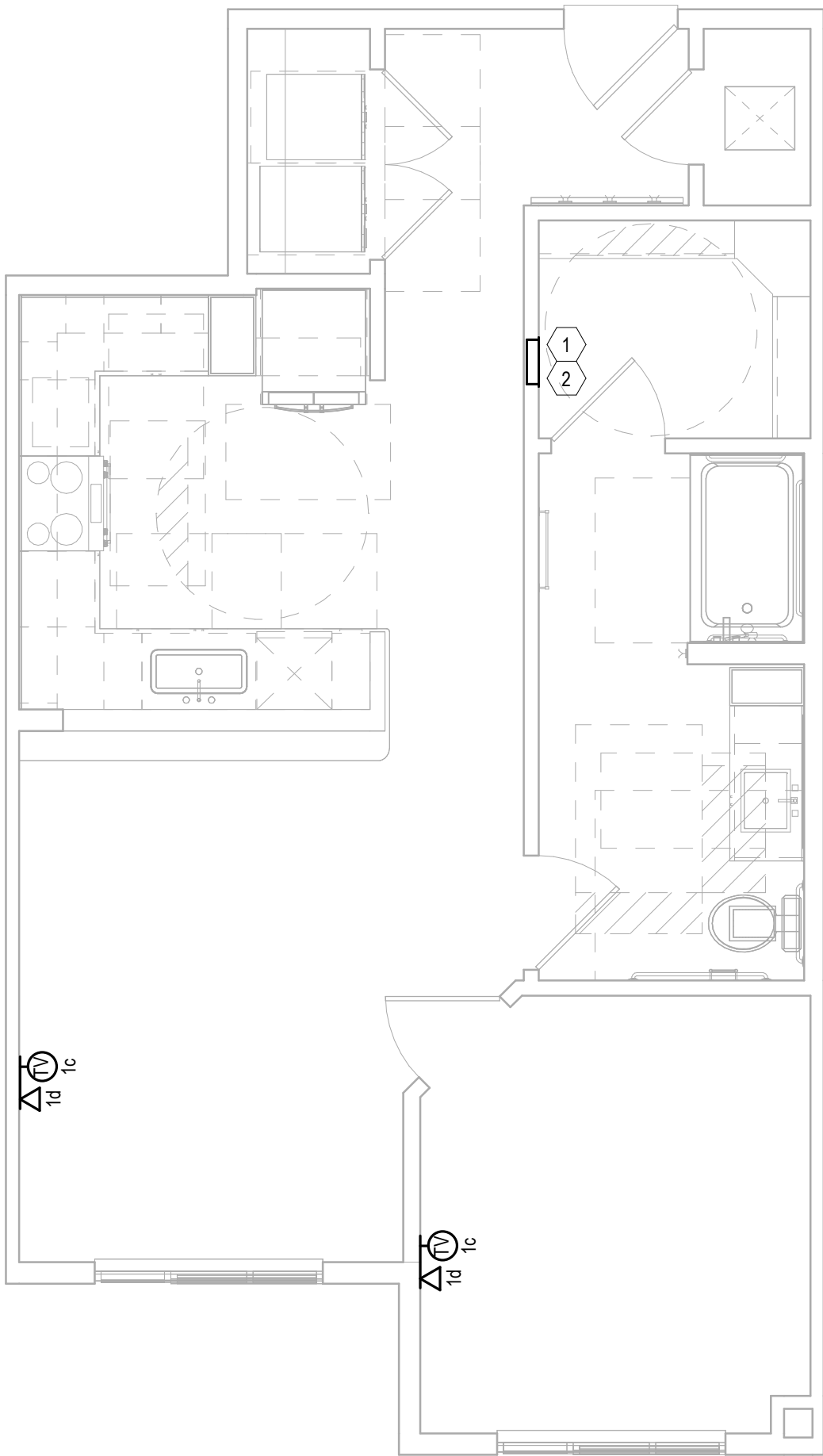
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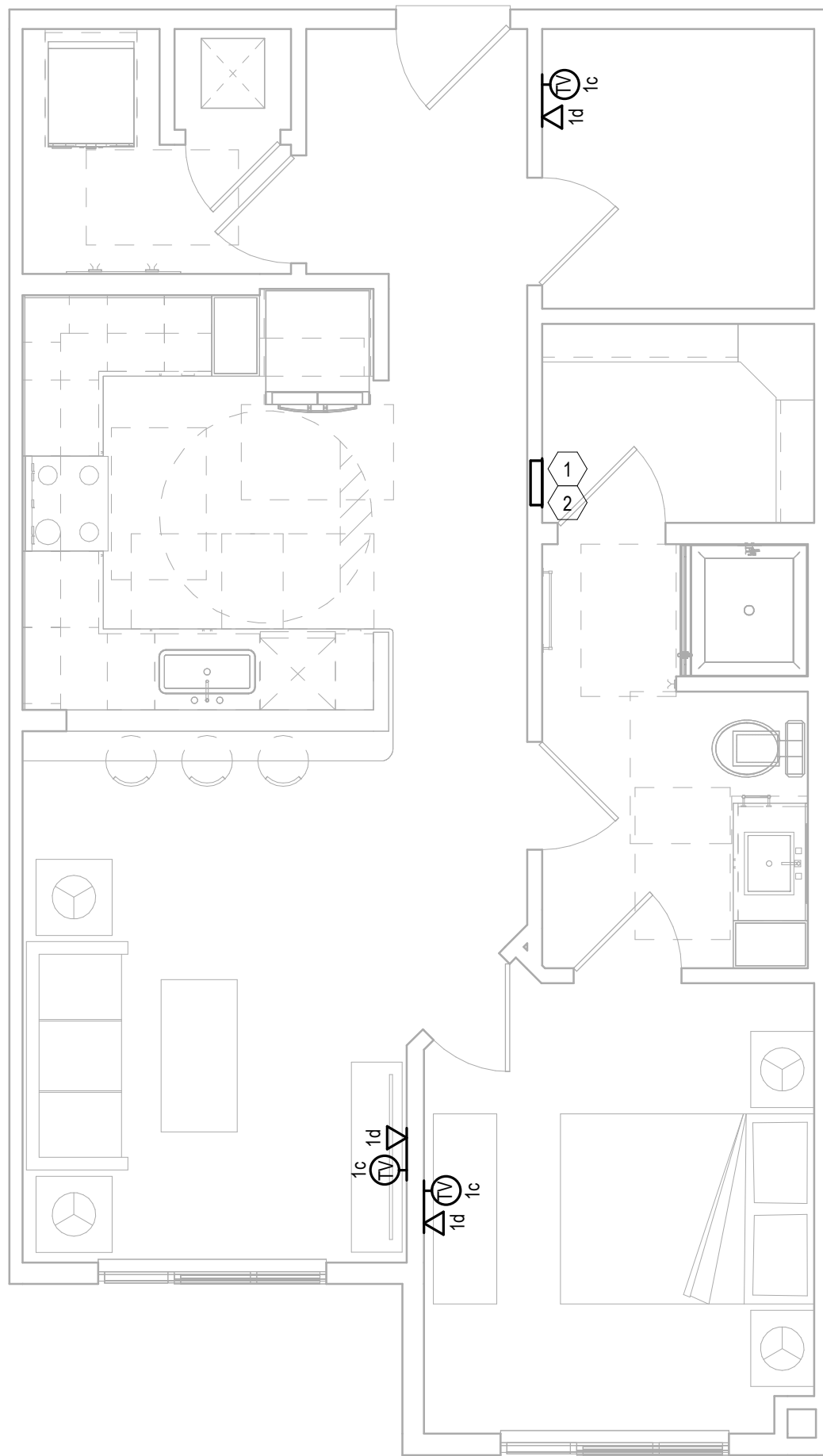
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2 UNIT A4-TA  
Scale: 1/4" = 1'-0"



1 UNIT A4  
Scale: 1/4" = 1'-0"



#### KEY NOTES: UNIT PLANS

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SHEET TITLE:

UNIT PLAN

DRAWING NO.  
**T2.06**

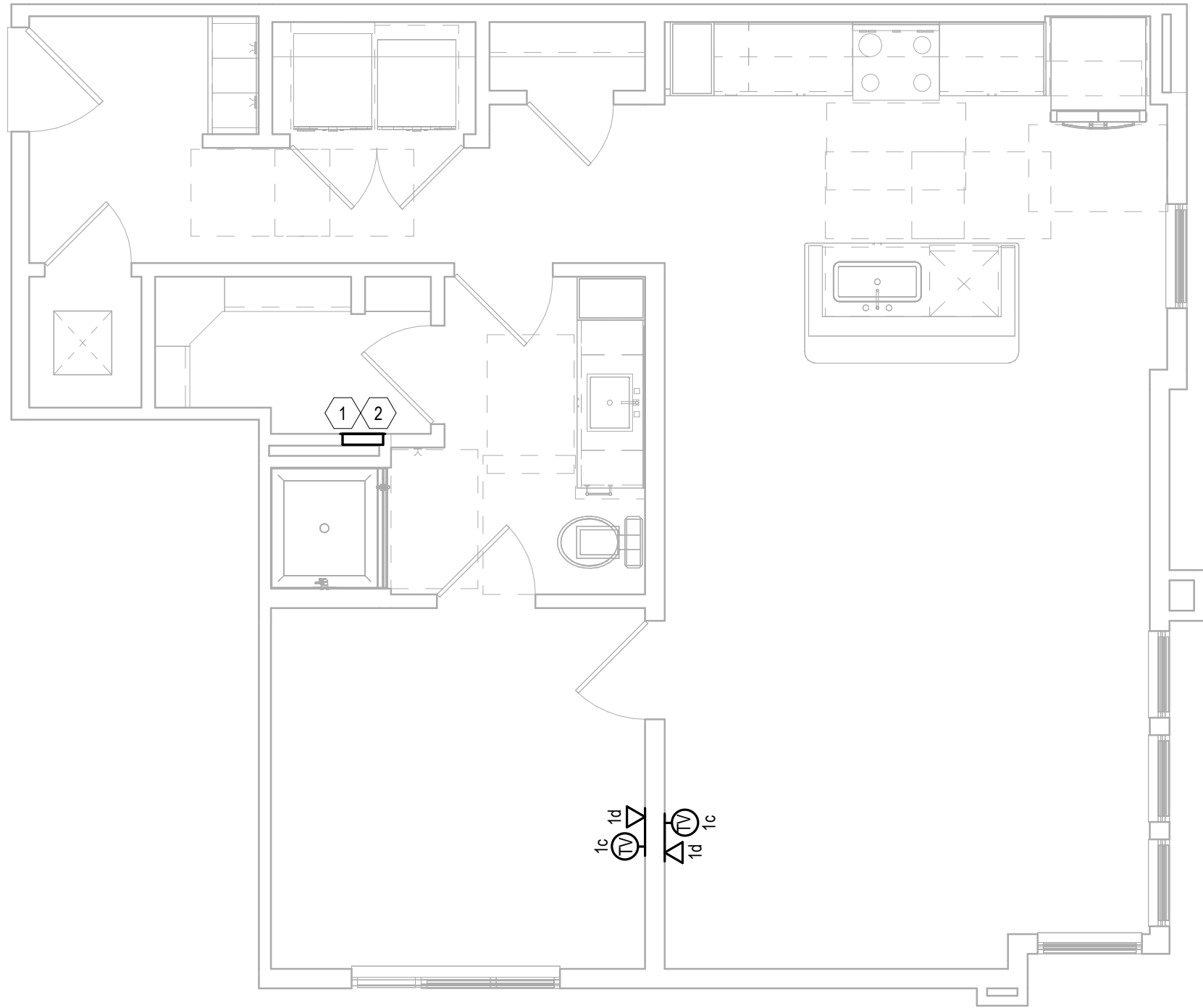
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2 UNIT A5A  
Scale: 1/4" = 1'-0"



1 UNIT A5  
Scale: 1/4" = 1'-0"



KEY NOTES: UNIT PLANS

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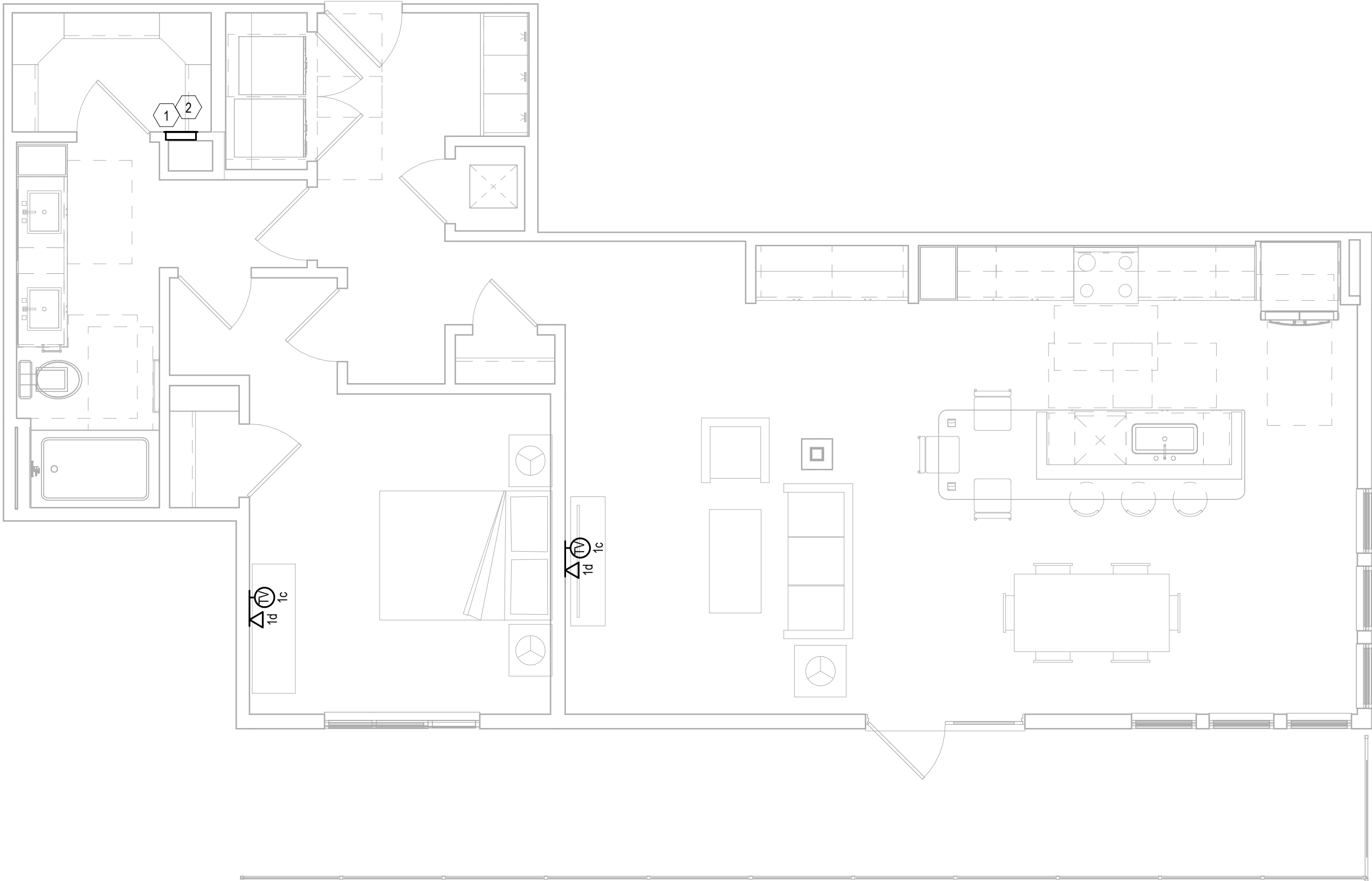
GENERAL NOTES: UNIT PLANS

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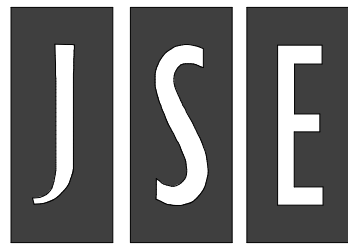
JOB NO.: 22035		MEEKS PARTNERS		GRANT STREET APARTMENTS		REVISION NO.		REVISION DATE		REVISION DESCRIPTION	
X	NOT FOR CONSTRUCTION	16000 Memorial Drive Suite 100 Houston, Texas 77079 281.556.8787 © 2021 Meecks + Partners, Co. - All Rights Reserved		290 E. 17th Ave, Denver, CO 80203 A Development of Abacus Capital Group				10/18/2024	ISSUED FOR PERMIT		
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SHEET TITLE:						UNIT PLAN					
DRAWING NO.						T2.07					



1  
UNIT A6  
Scale: 1/4" = 1'-0"



2  
UNIT A6A  
Scale: 1/4" = 1'-0"



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Project Number: 23080076

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Checked By: Checker

#### KEY NOTES: UNIT PLANS

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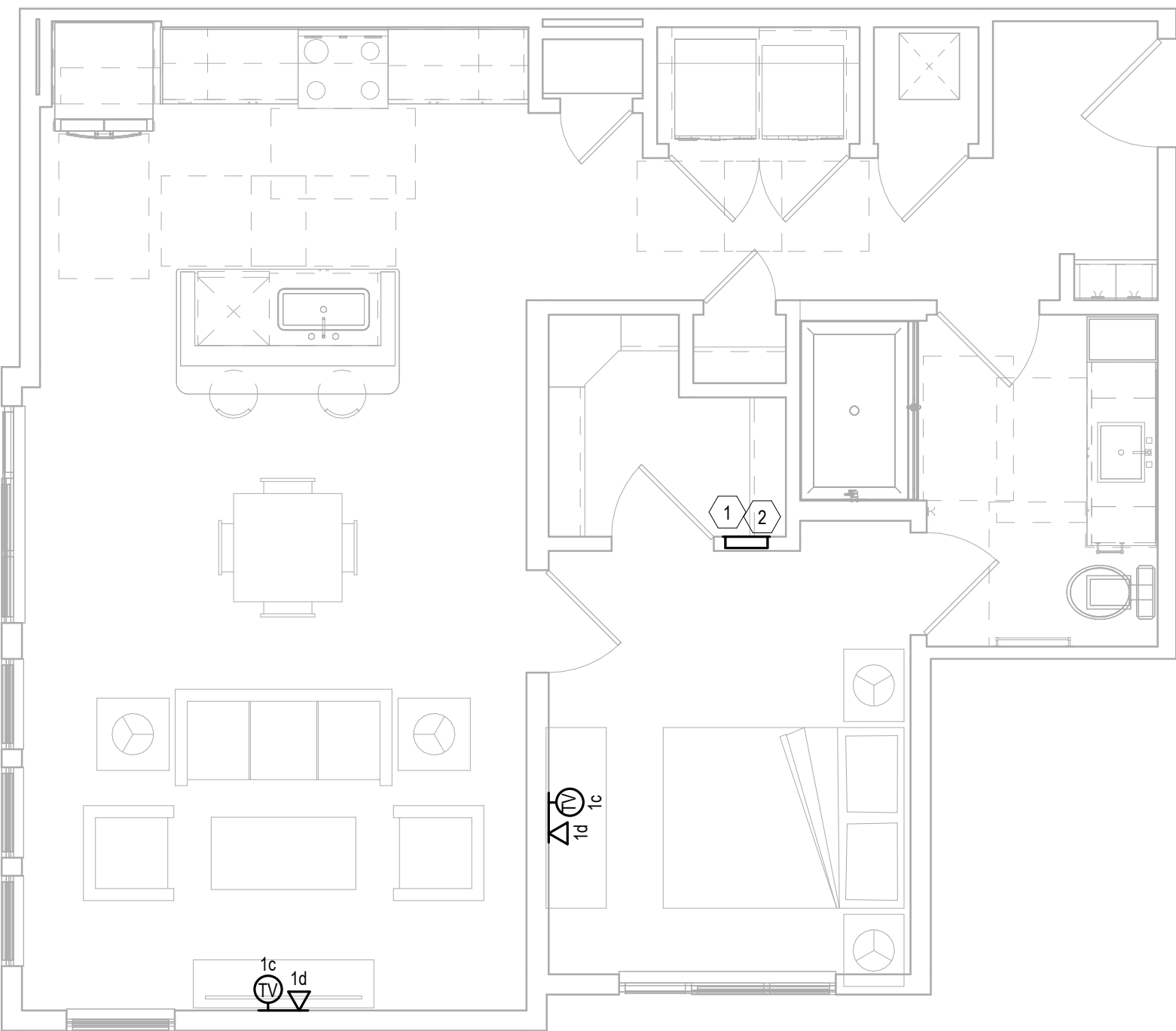
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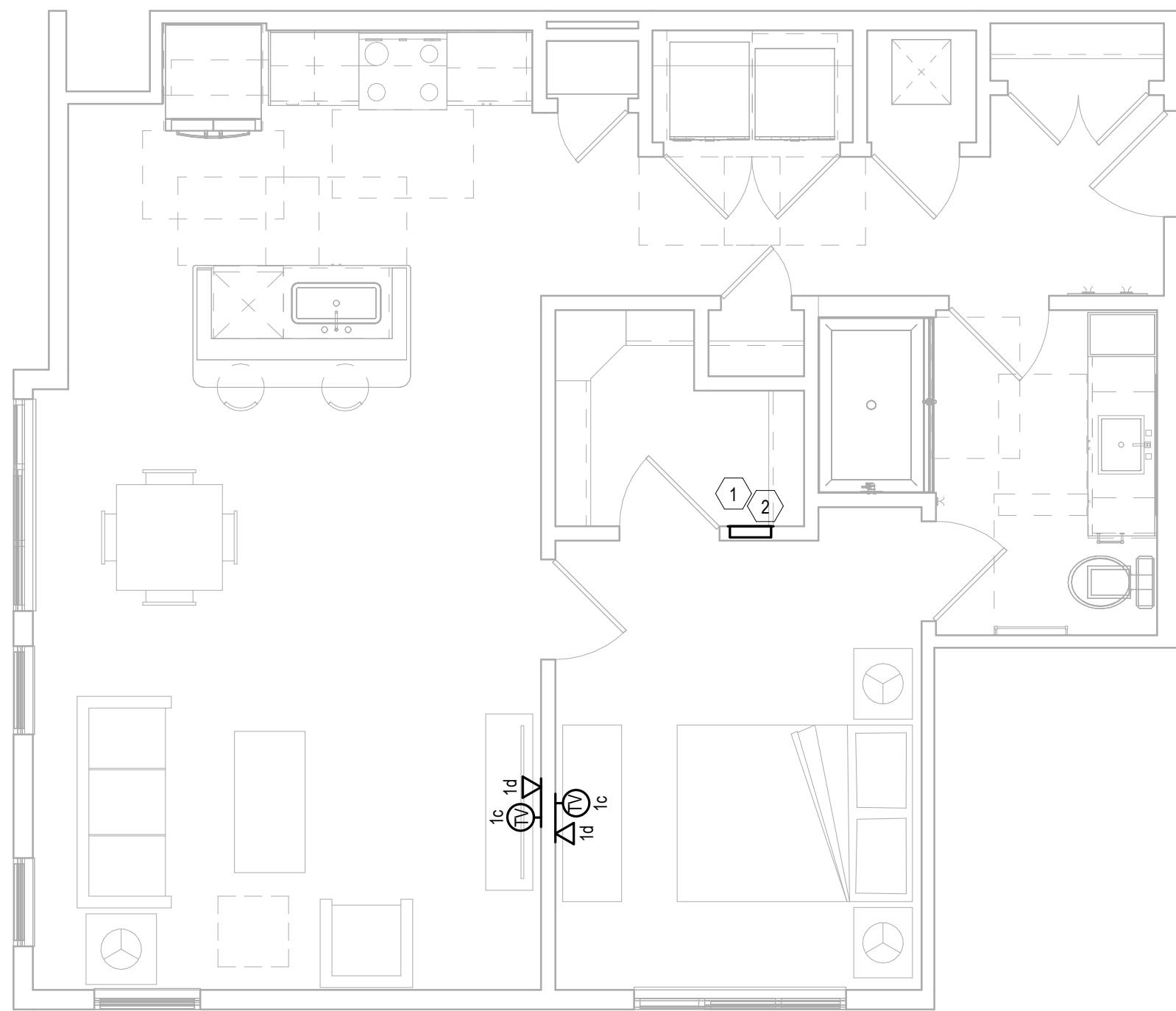
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1 UNIT A8Z  
Scale: 1/4" = 1'-0"

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

## KEY NOTES: UNIT PLANS

- |   |  |
|---|--|
| 1 | STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.                                 |
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## GENERAL NOTES: UNIT PLANS

- |      |  |
|------|--|
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Project Number: 23080076      Drawn By: Author      Checked By: Checker

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SHEET TITLE:

UNIT PLAN

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**T2.10**

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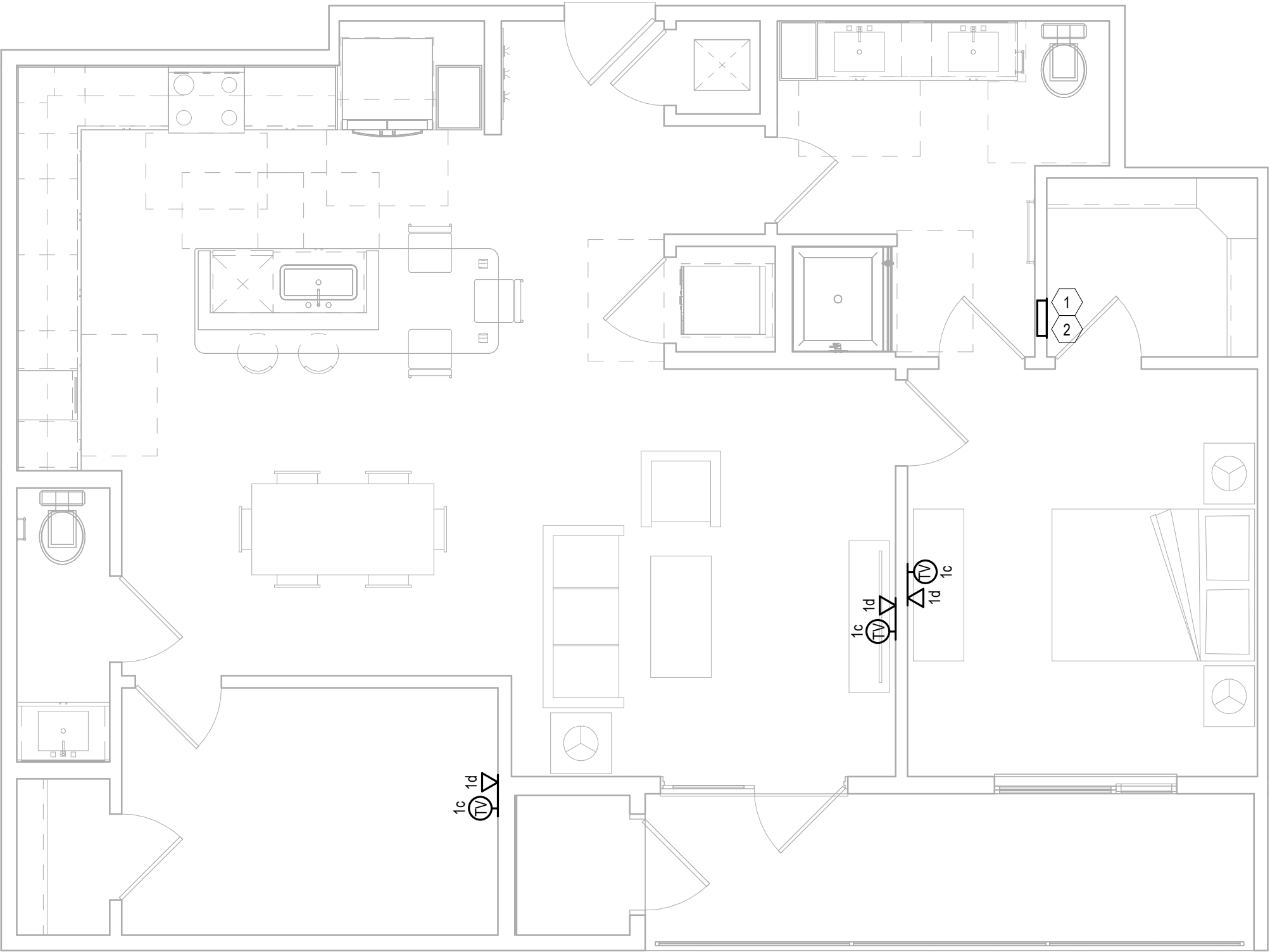
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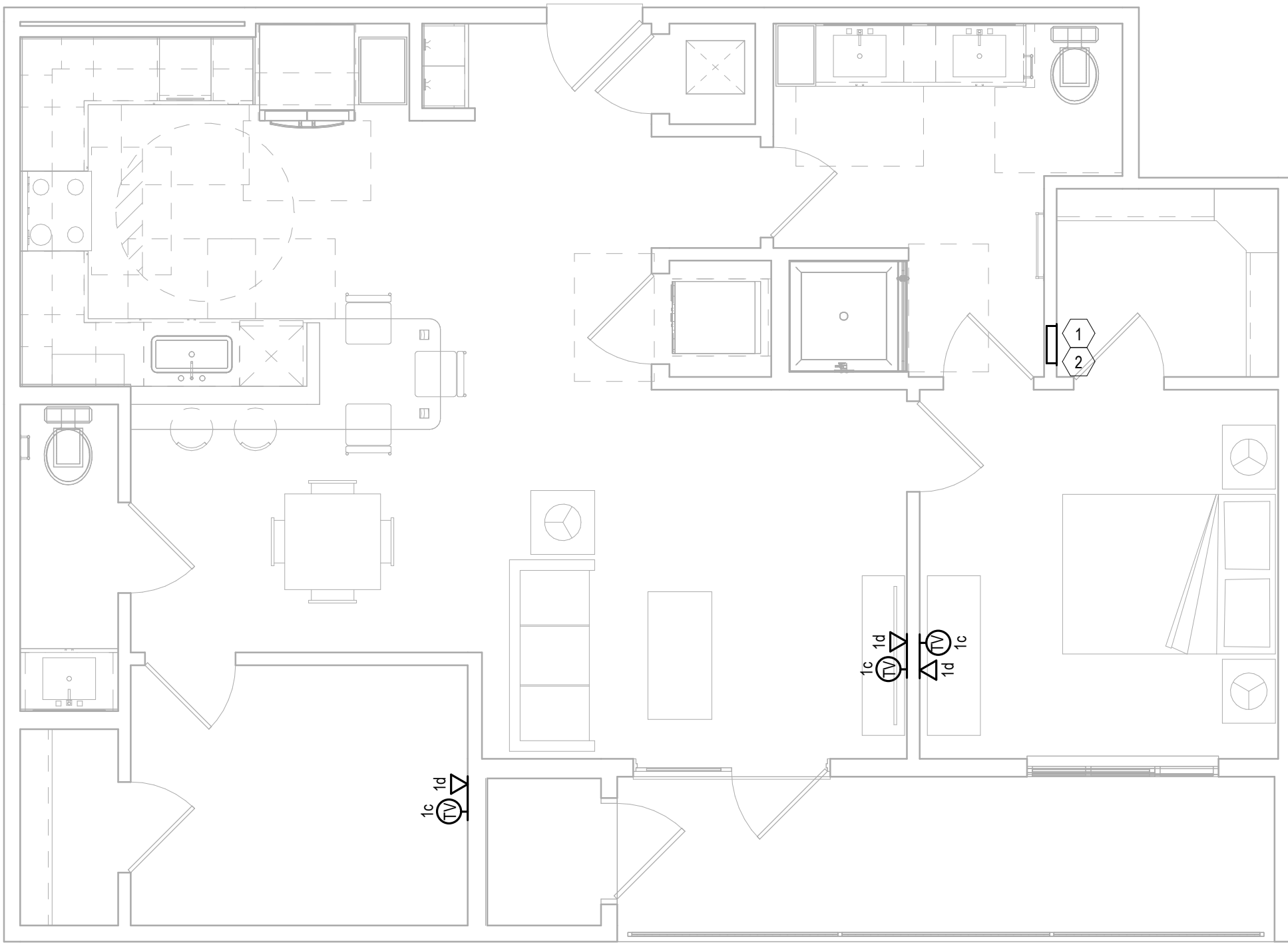
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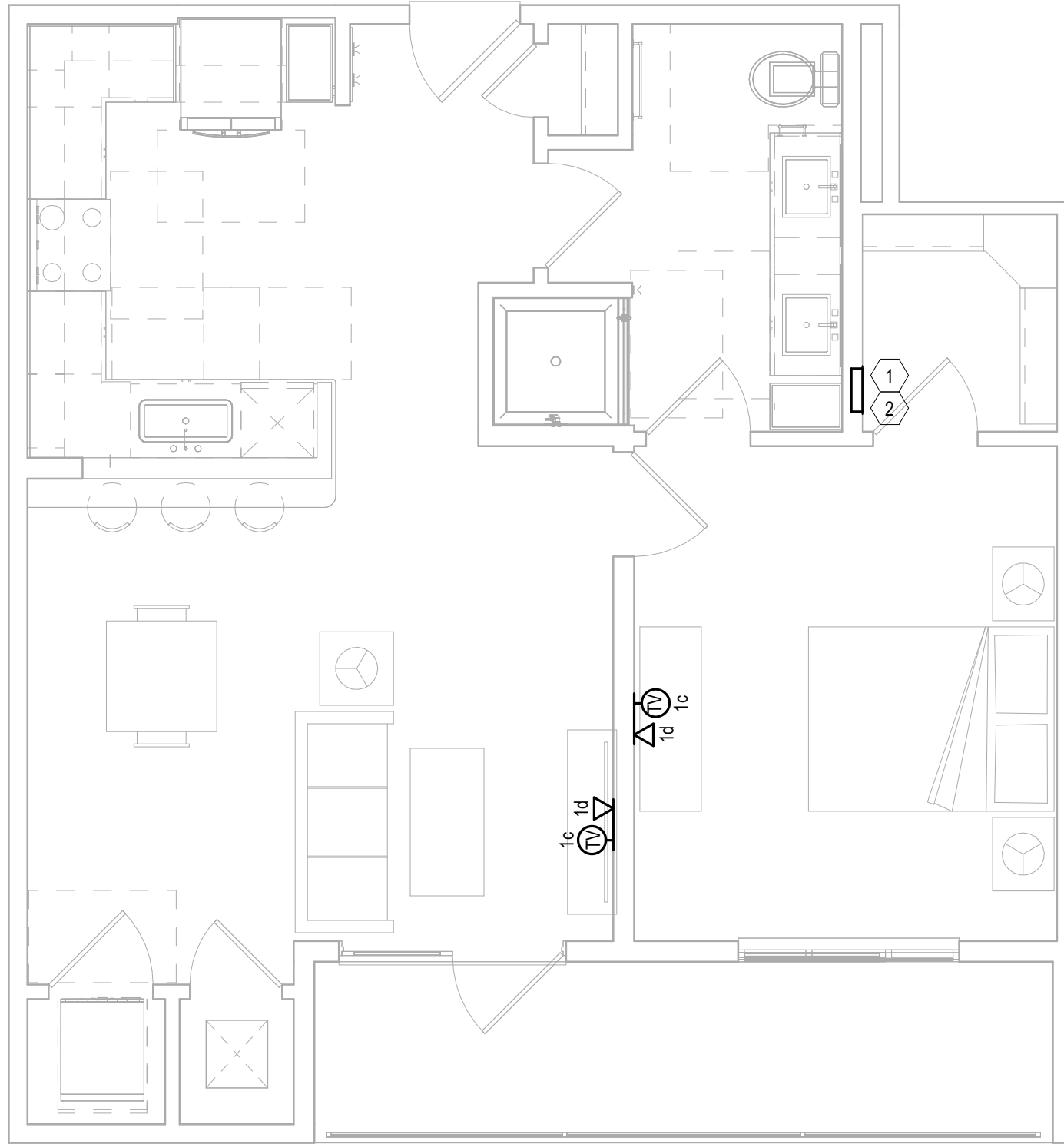
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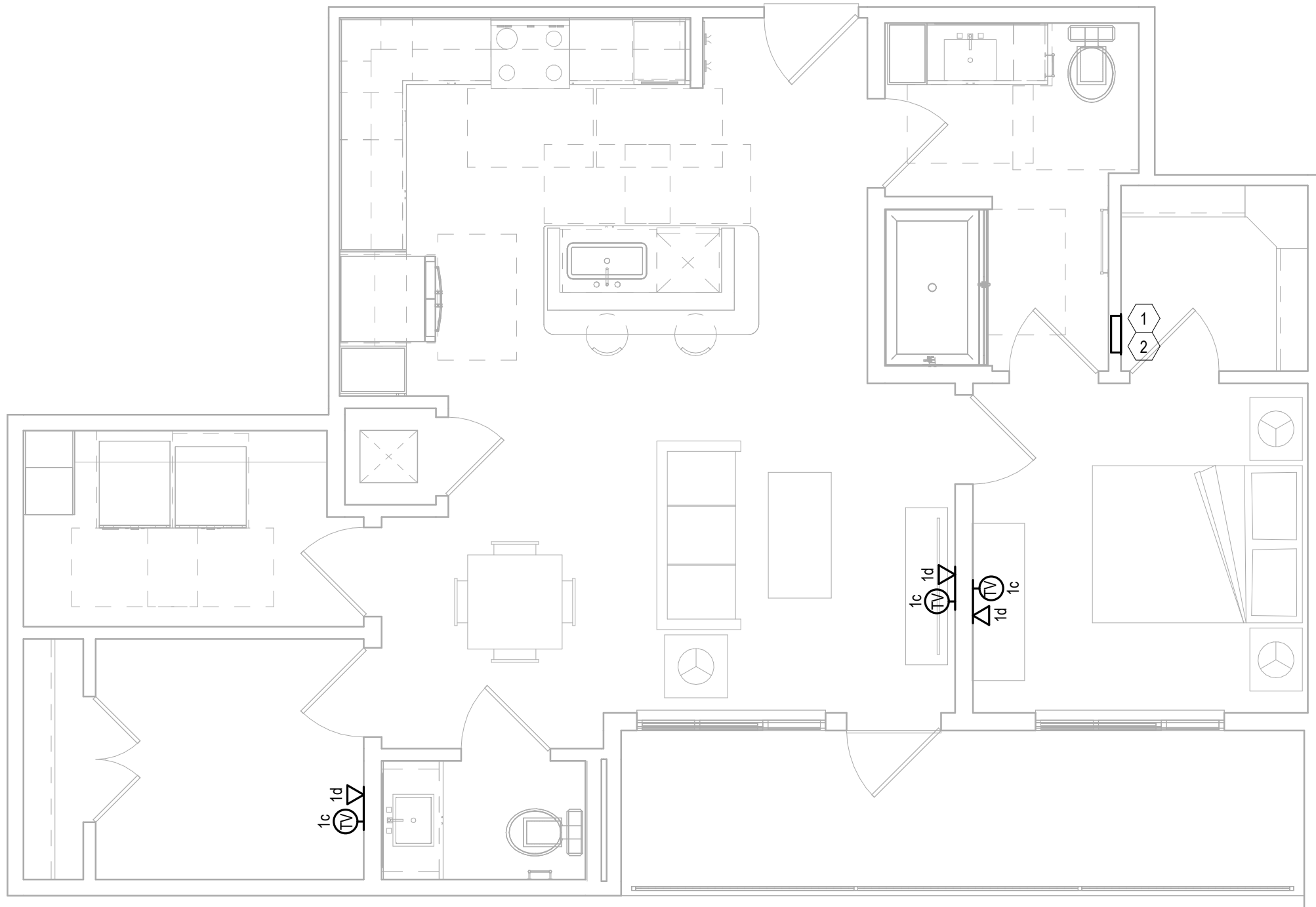
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2 UNIT A10  
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4 UNIT A11  
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1 UNIT A9  
Scale: 1/4" = 1'-0"

#### KEY NOTES: UNIT PLANS

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#### GENERAL NOTES: UNIT PLANS

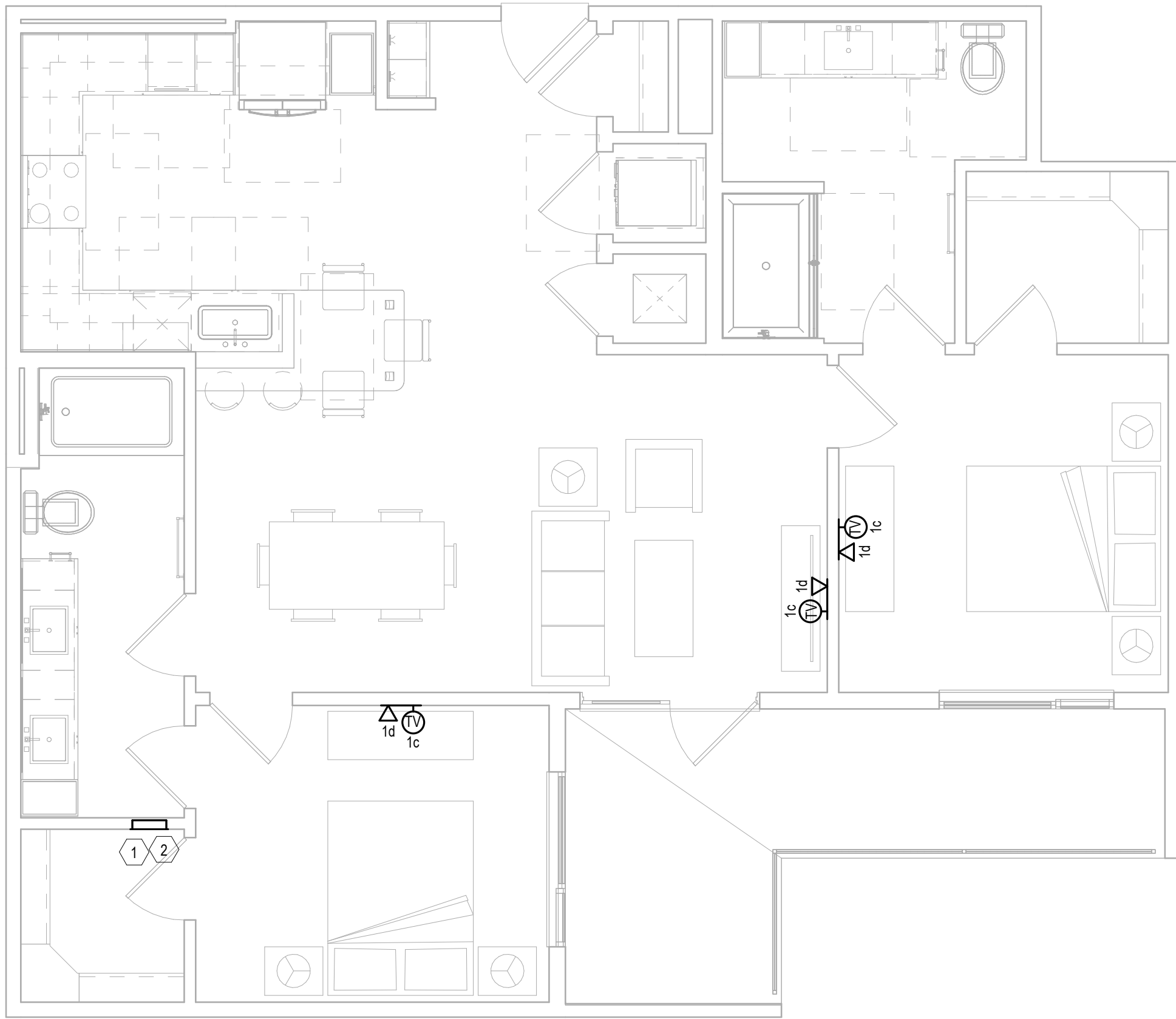
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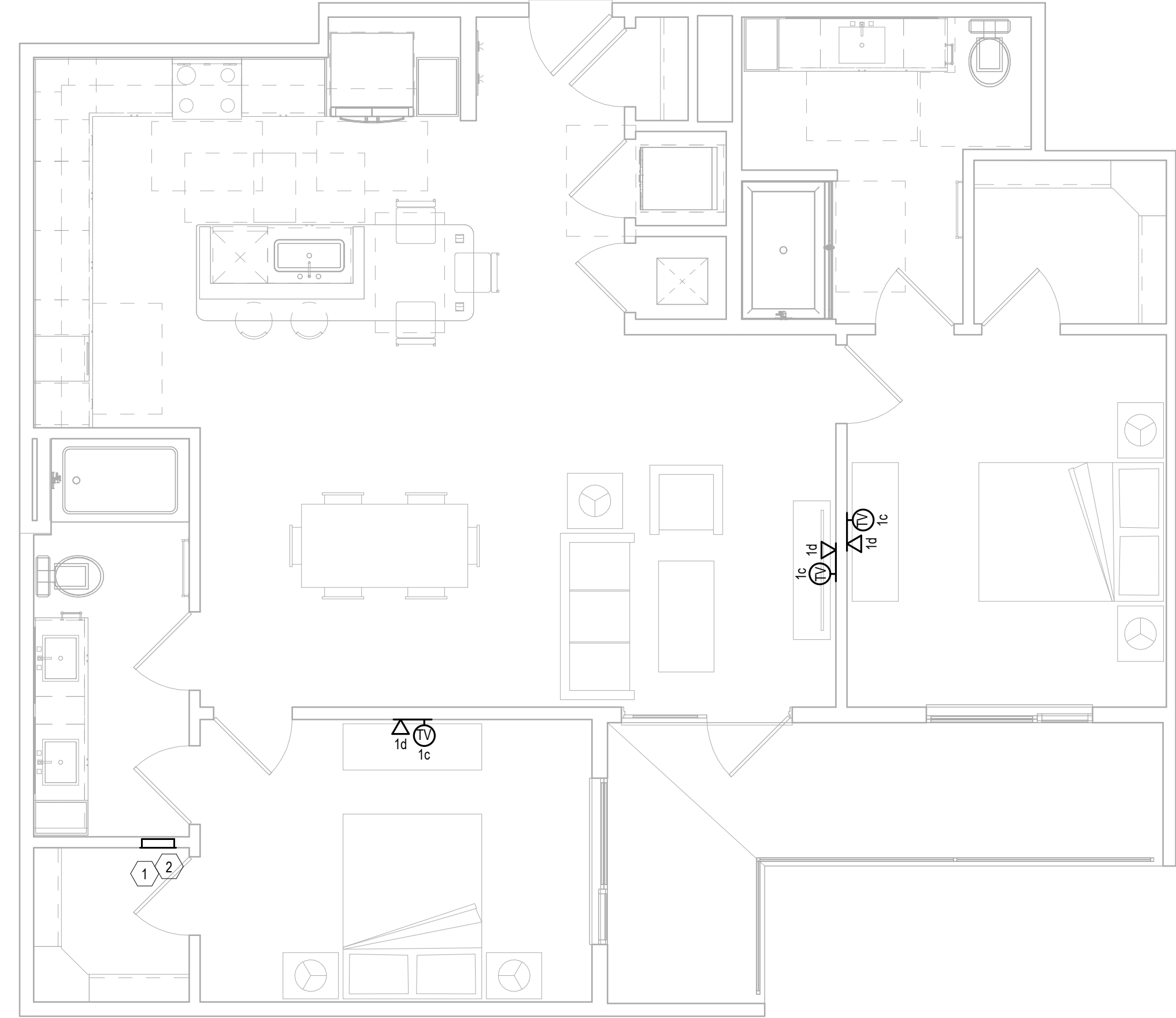
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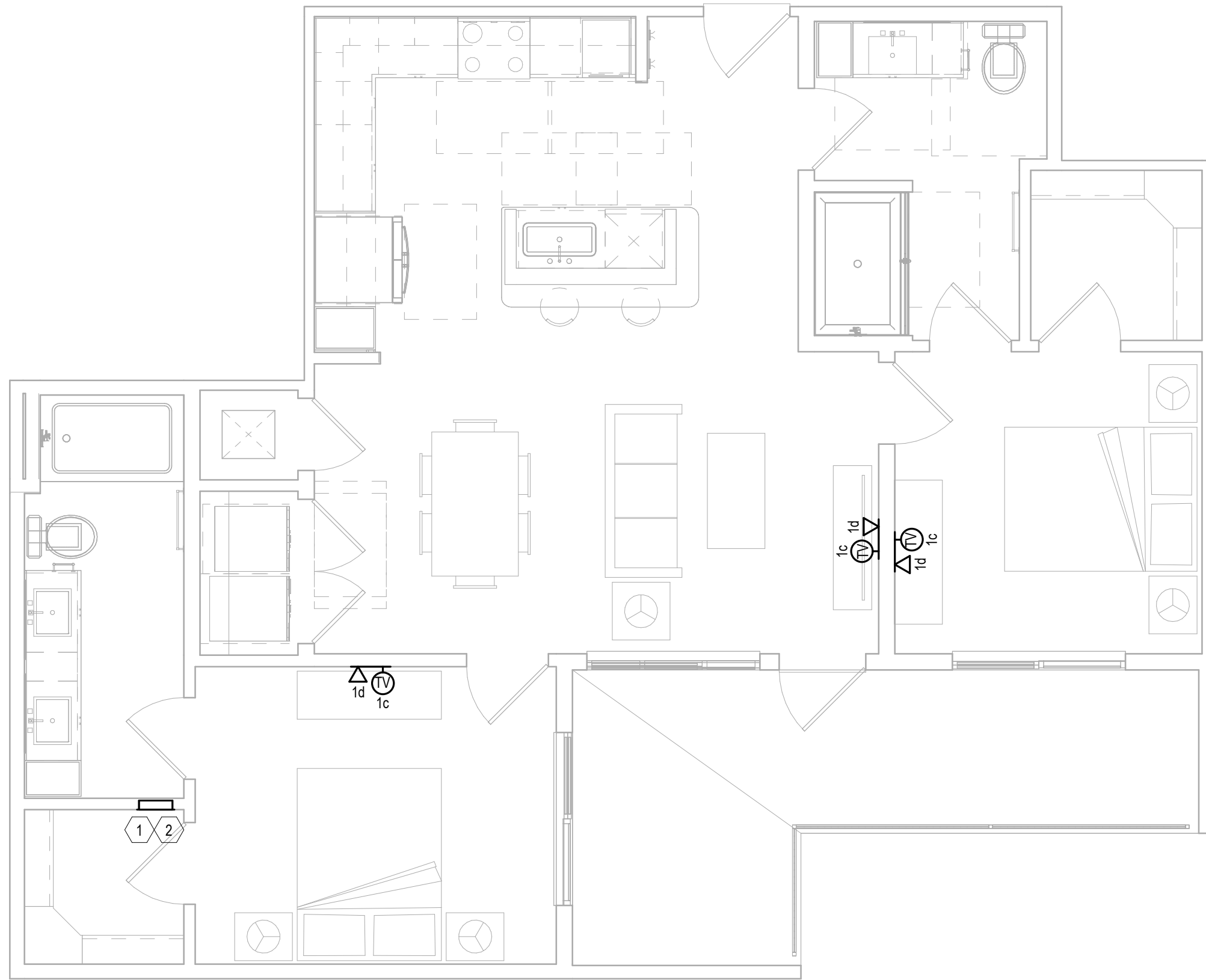
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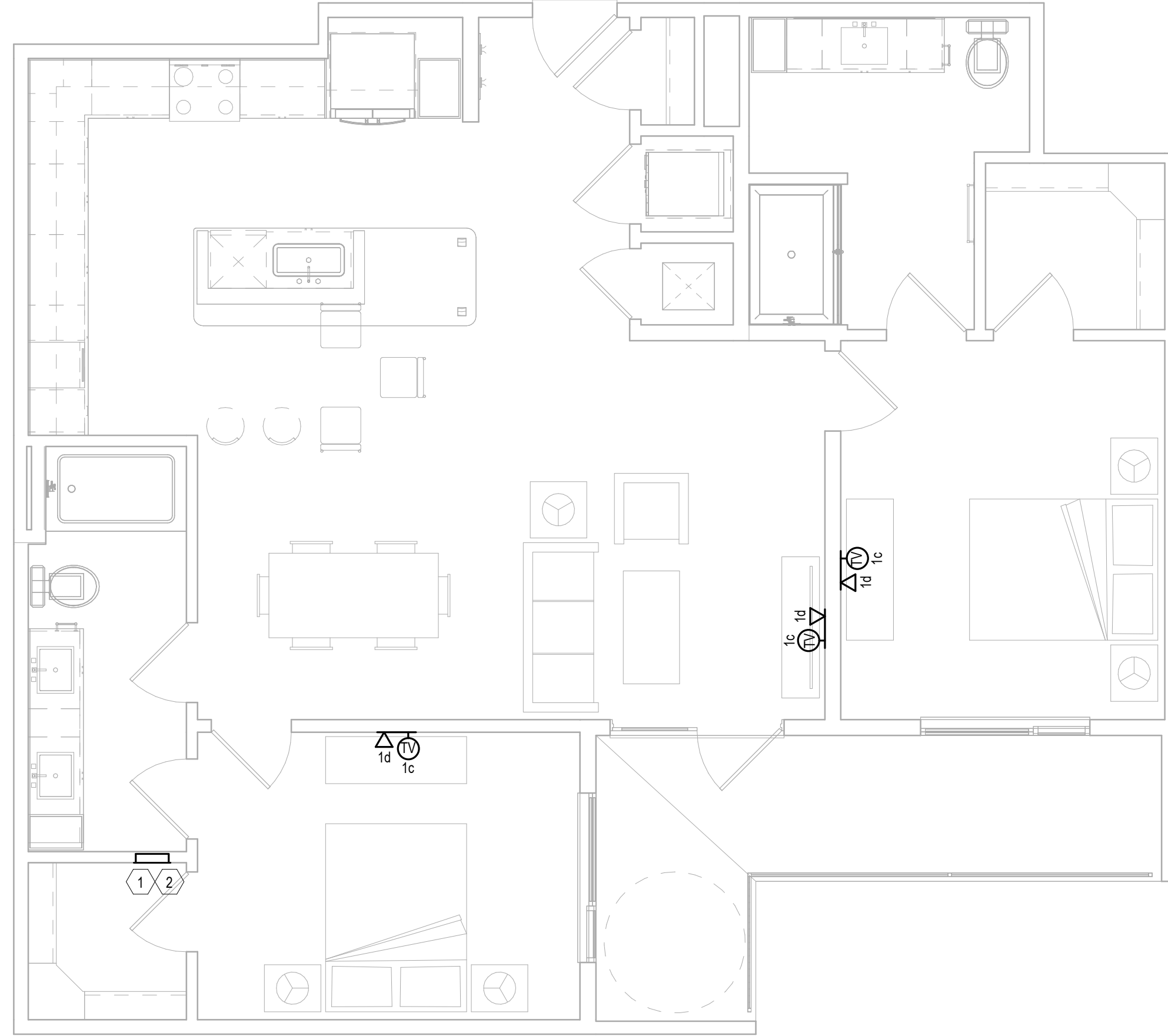
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3 UNIT B2A  
Scale: 1/4" = 1'-0"



1 UNIT B1  
Scale: 1/4" = 1'-0"



4 UNIT B2B  
Scale: 1/4" = 1'-0"

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SHEET TITLE:

UNIT PLAN

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T2.12

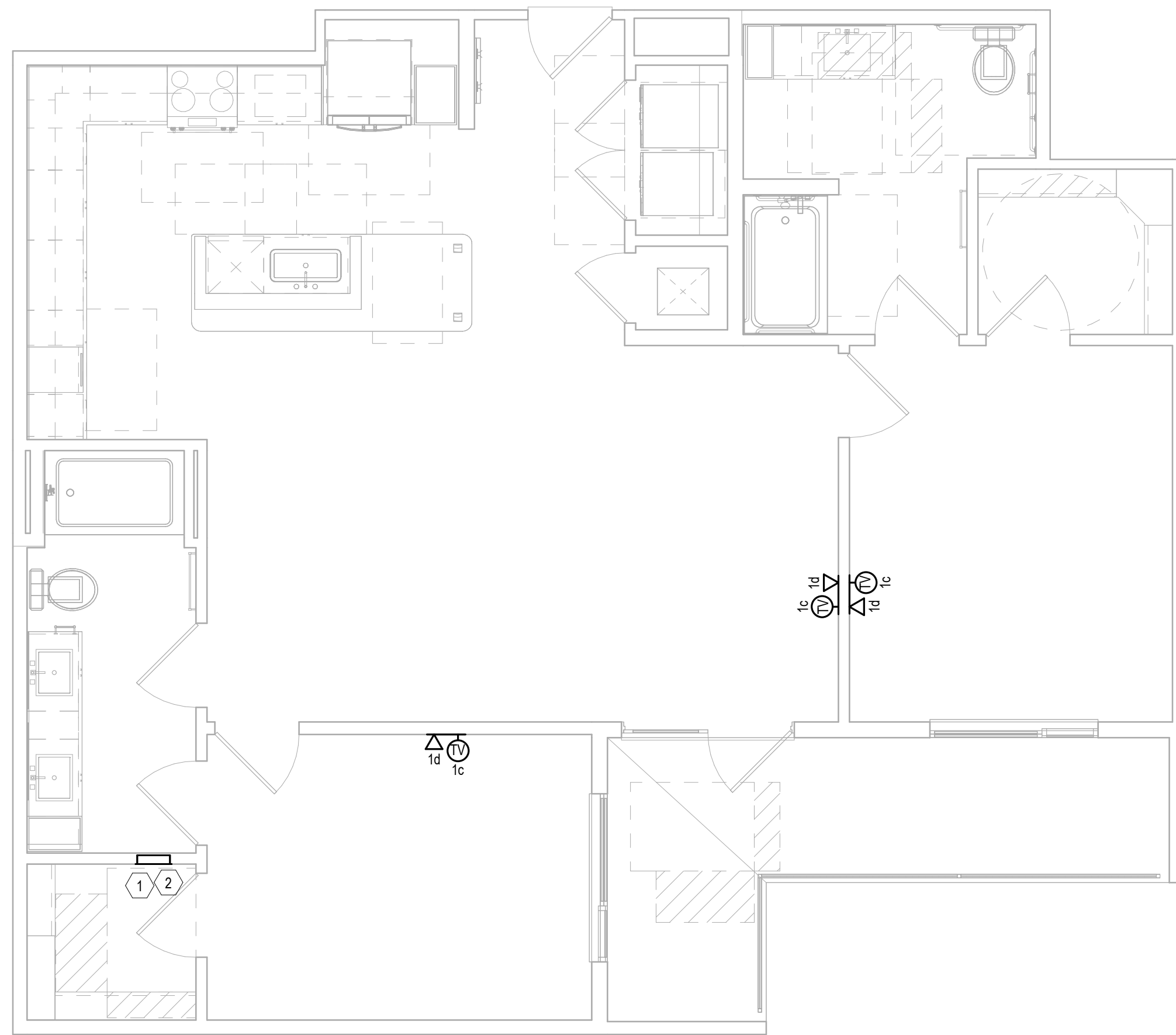
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1 UNIT B2A-TA  
Scale: 1/4" = 1'-0"

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

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- |      |  |
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SHEET TITLE:

UNIT PLAN

DRAWING NO.

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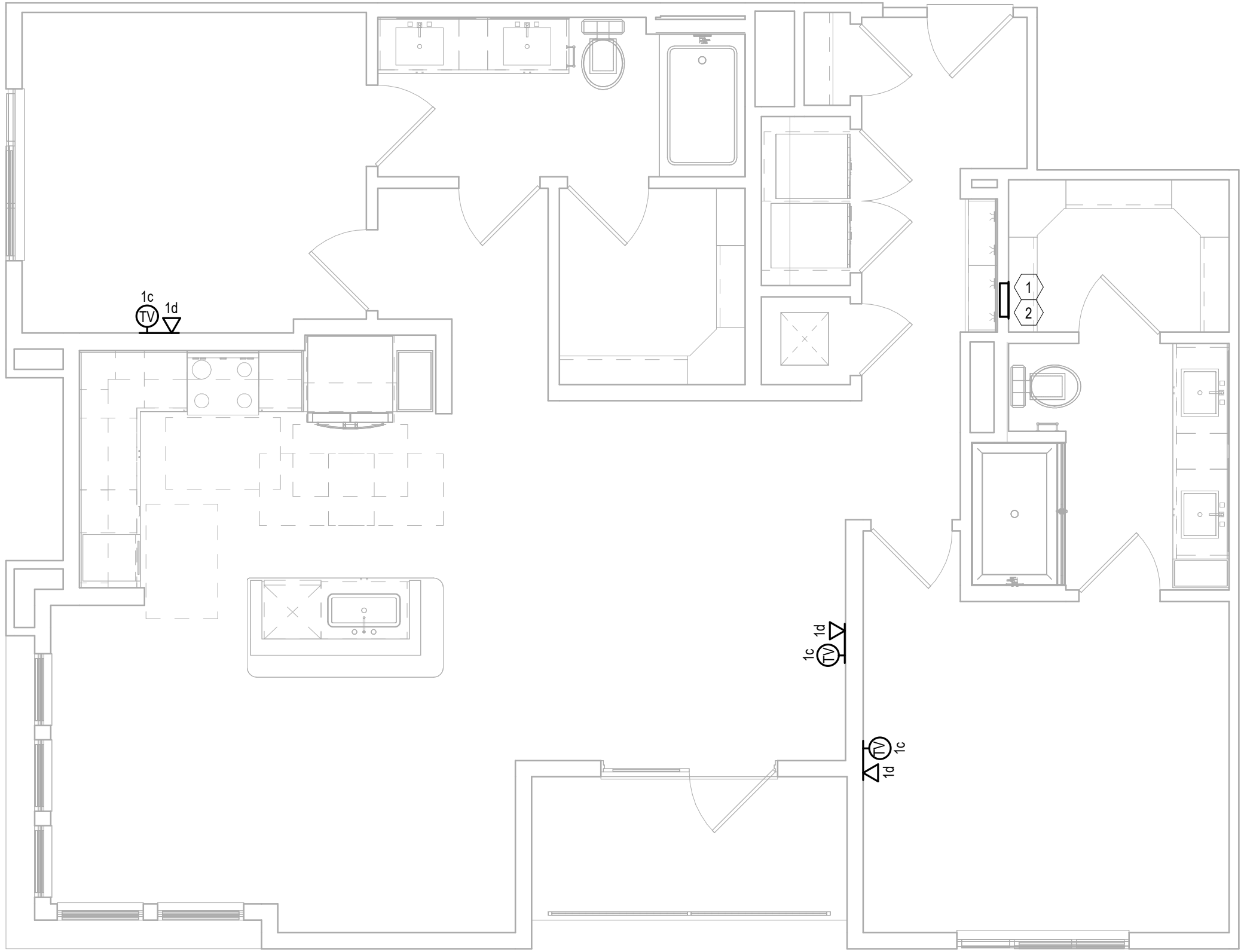
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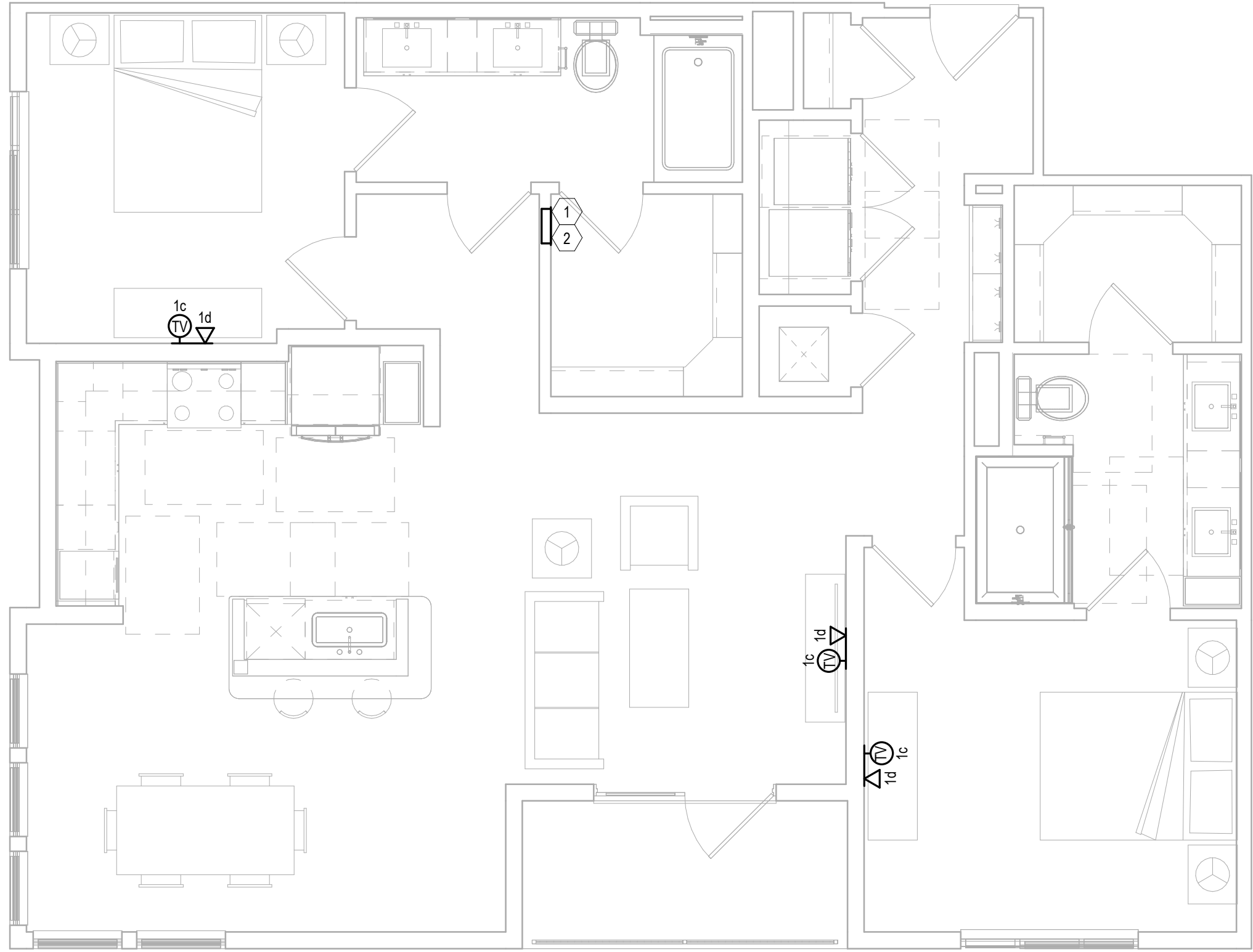
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2 UNIT B3A  
Scale: 1/4" = 1'-0"



1 UNIT B3  
Scale: 1/4" = 1'-0"



KEY NOTES: UNIT PLANS

- 1 STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- 2 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
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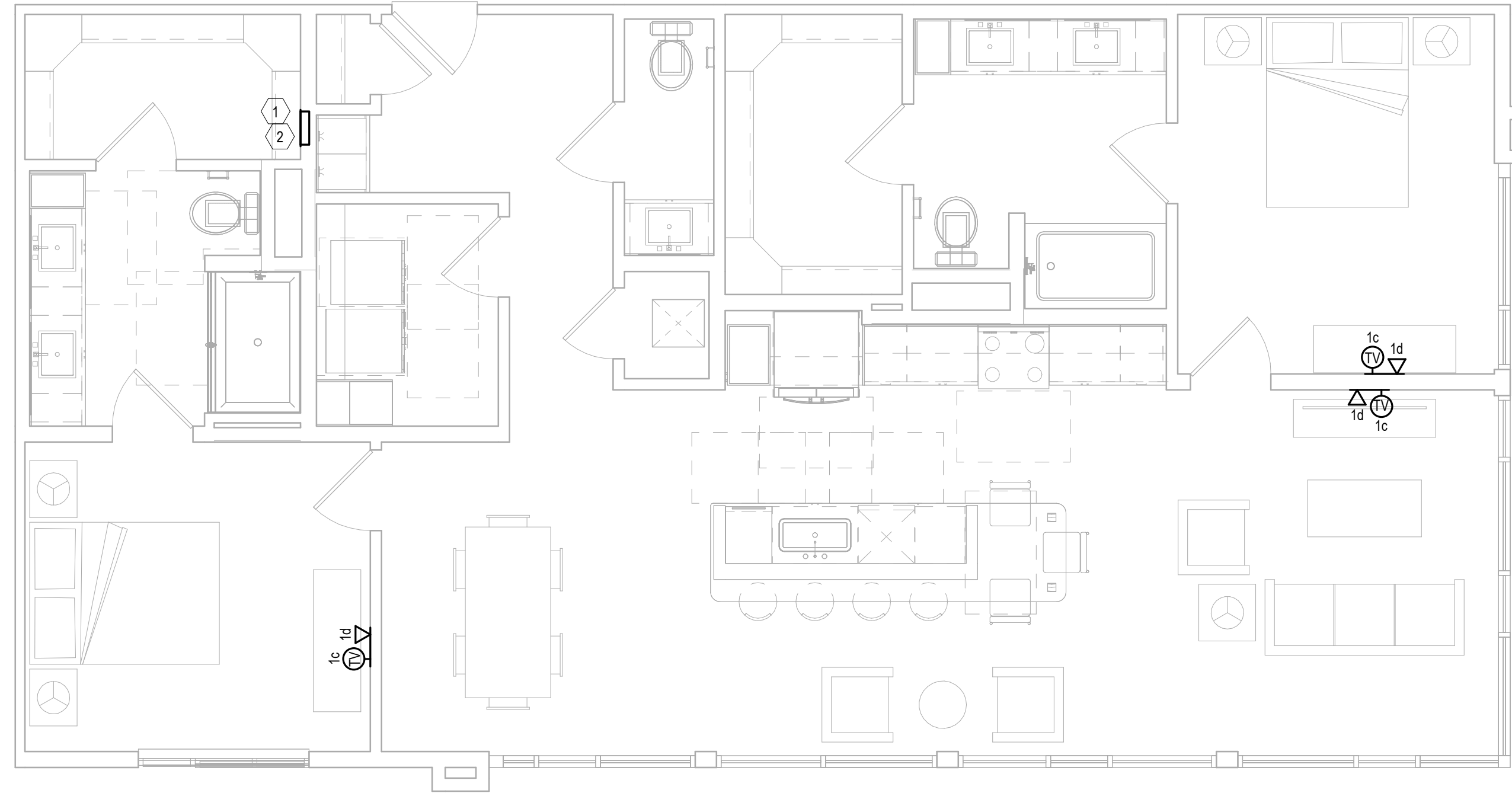
GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
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- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.

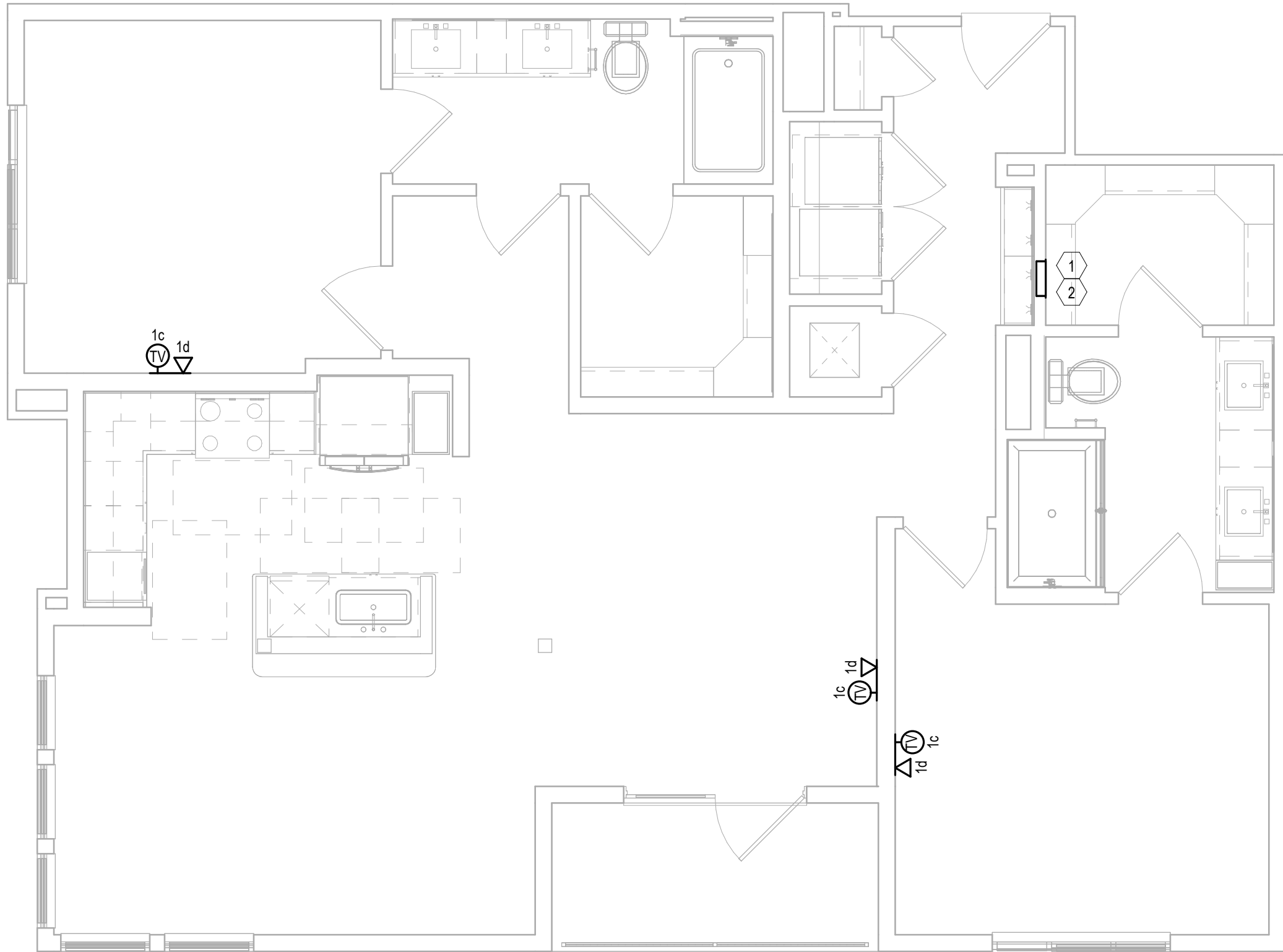
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	ISSUED FOR PRICING				
	ISSUED FOR PERMIT				
	ISSUED FOR CONSTRUCTION				
GRANT STREET APARTMENTS 290 E. 17th Ave, Denver, CO 80203 A Development of Abacus Capital Group		MEEKS PARTNERS 16000 Memorial Drive Suite 100 Houston, Texas 77079 281.556.8787 © 2021 Meeks + Partners, Co. - All Rights Reserved		REVISION NO.	
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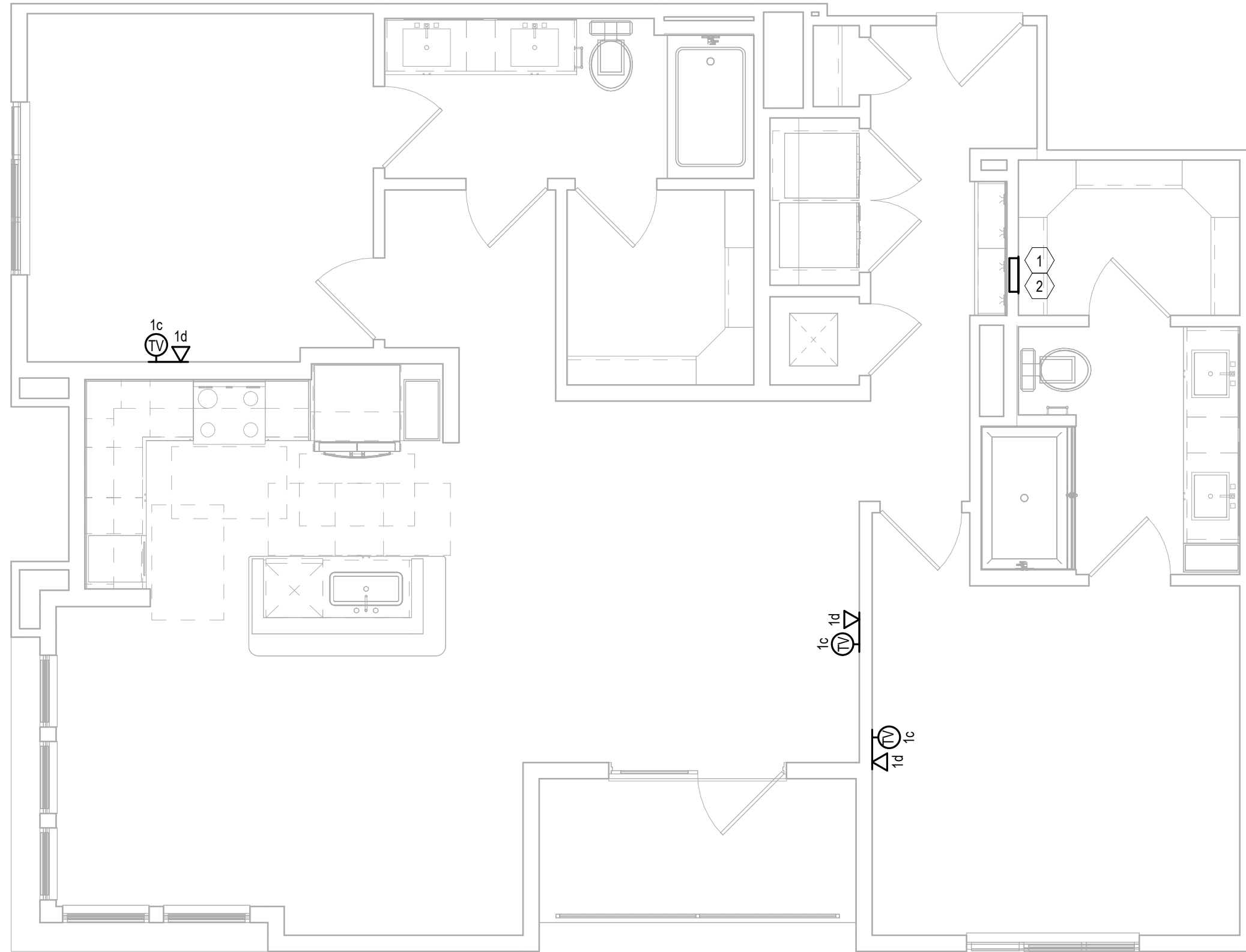
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3 UNIT B4  
Scale: 1/4" = 1'-0"



2 UNIT B3C  
Scale: 1/4" = 1'-0"



1 UNIT B3B  
Scale: 1/4" = 1'-0"

#### KEY NOTES: UNIT PLANS

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Project Number: 23080076

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SHEET TITLE:

UNIT PLAN

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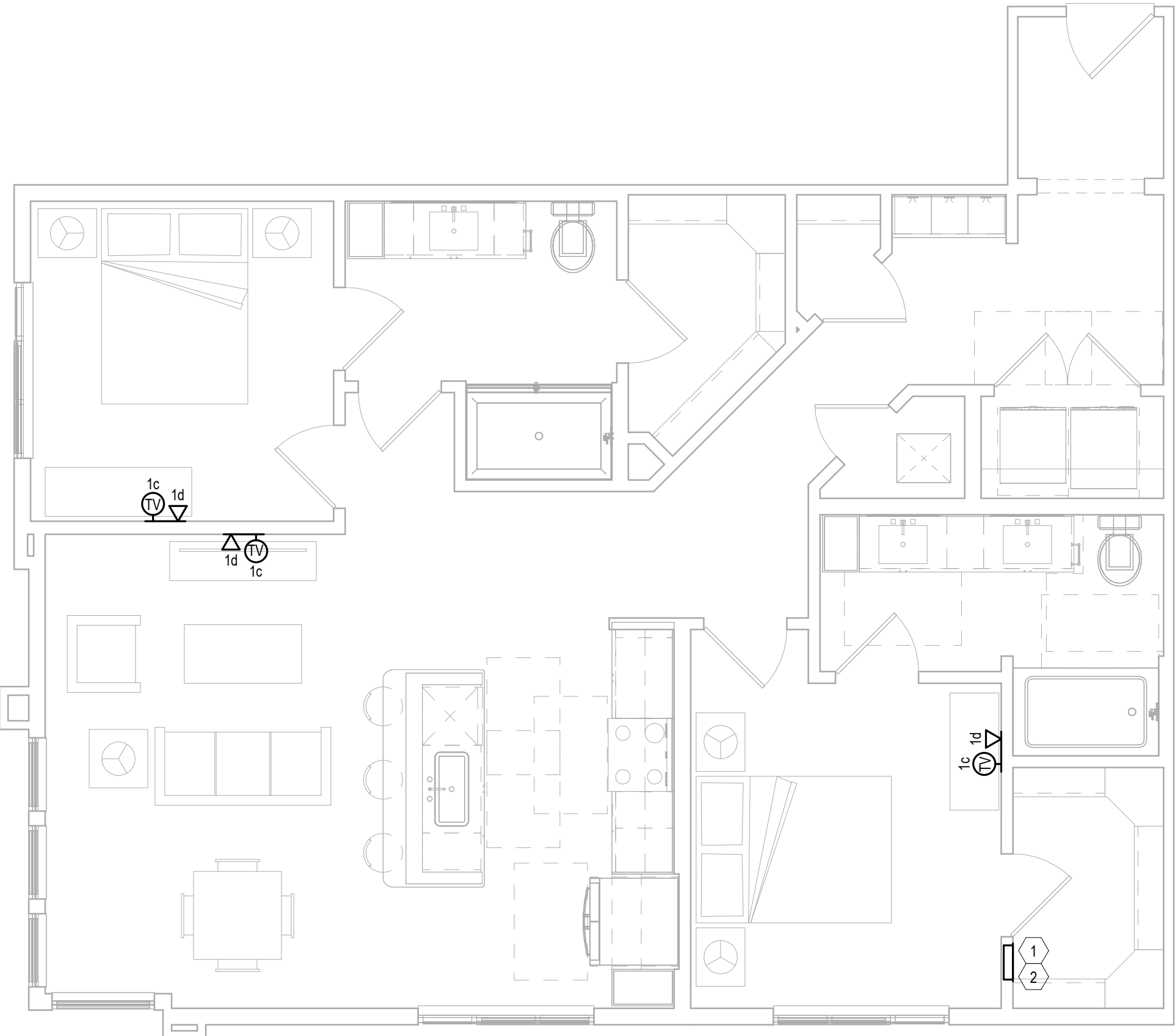
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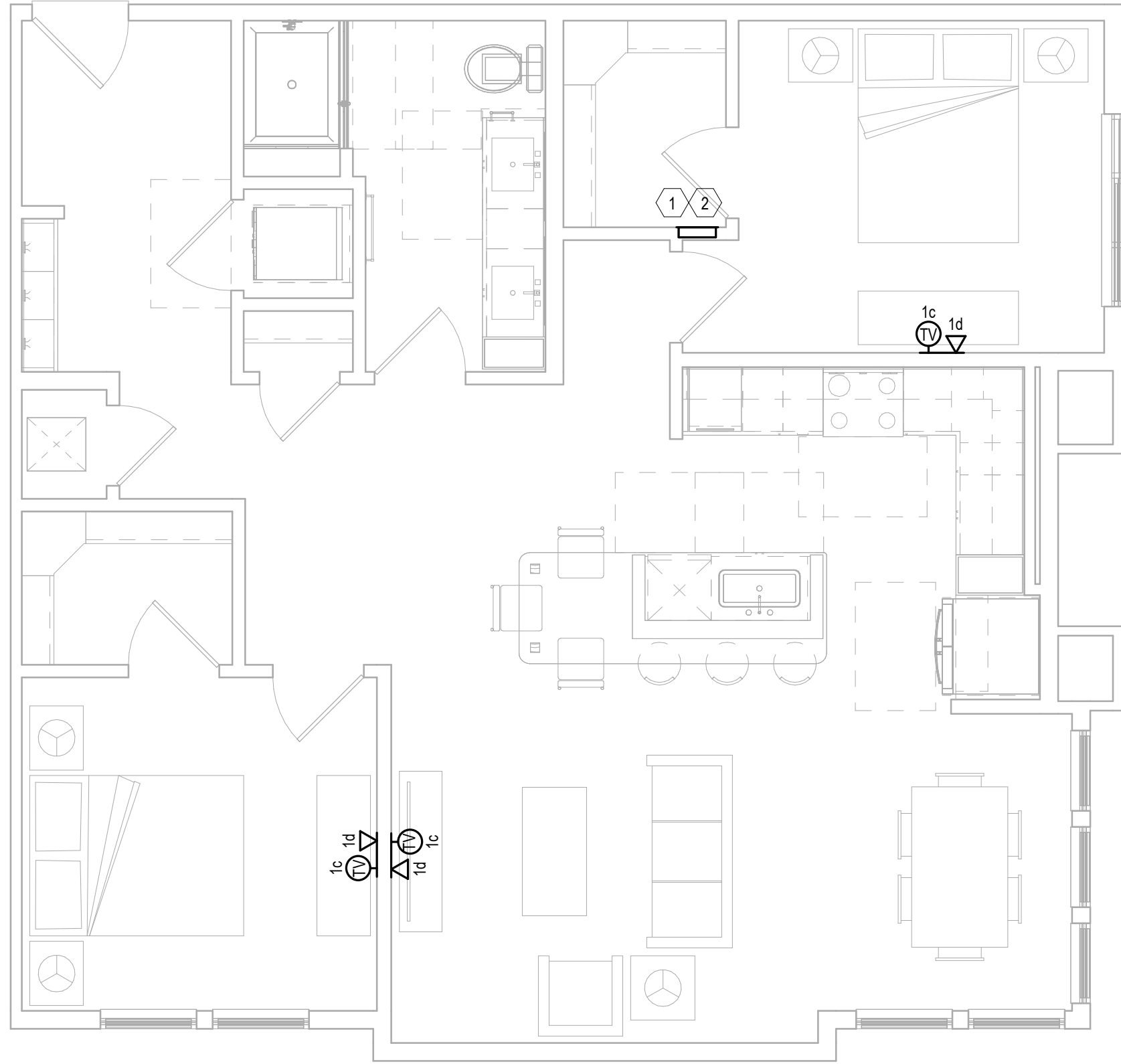
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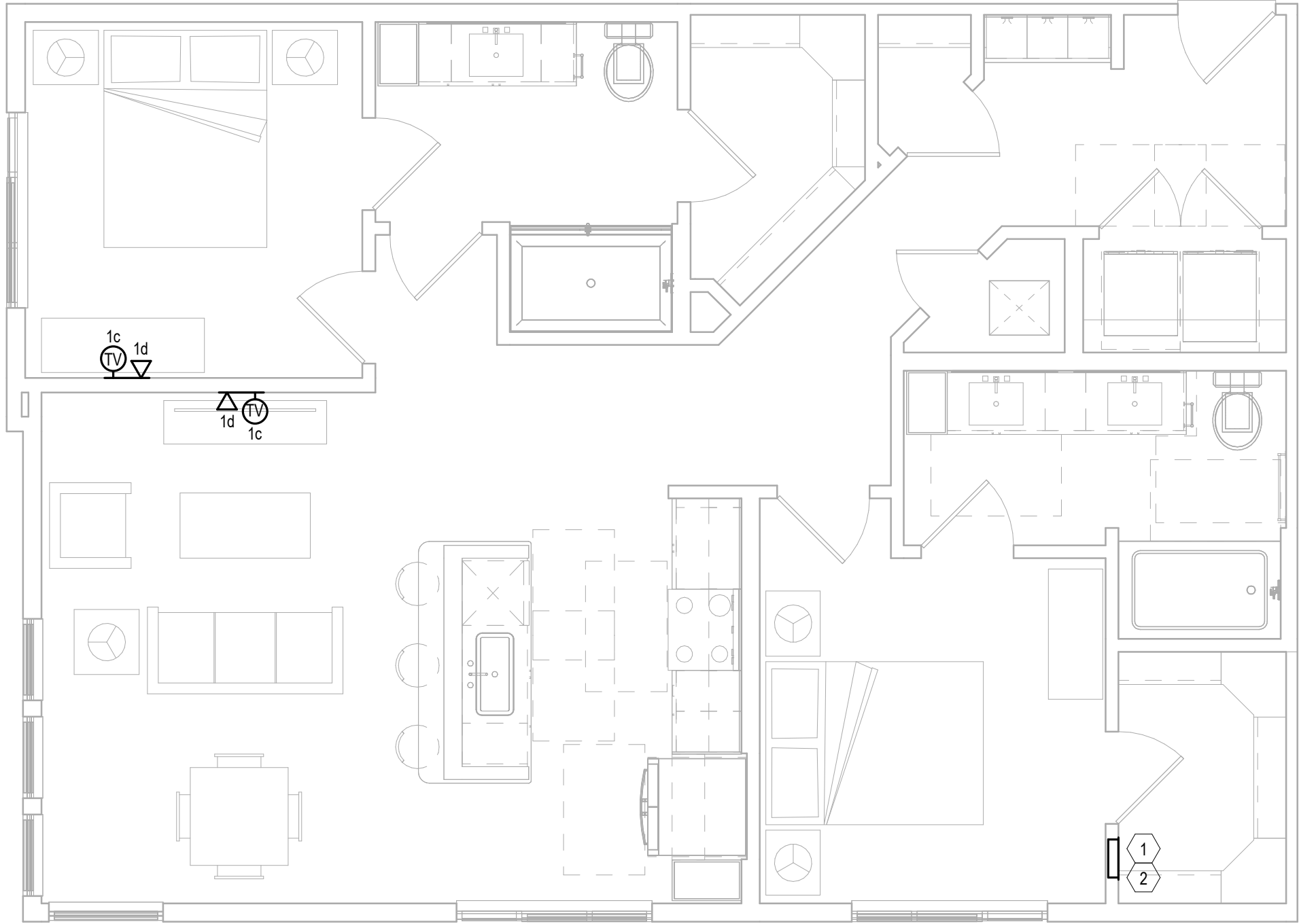
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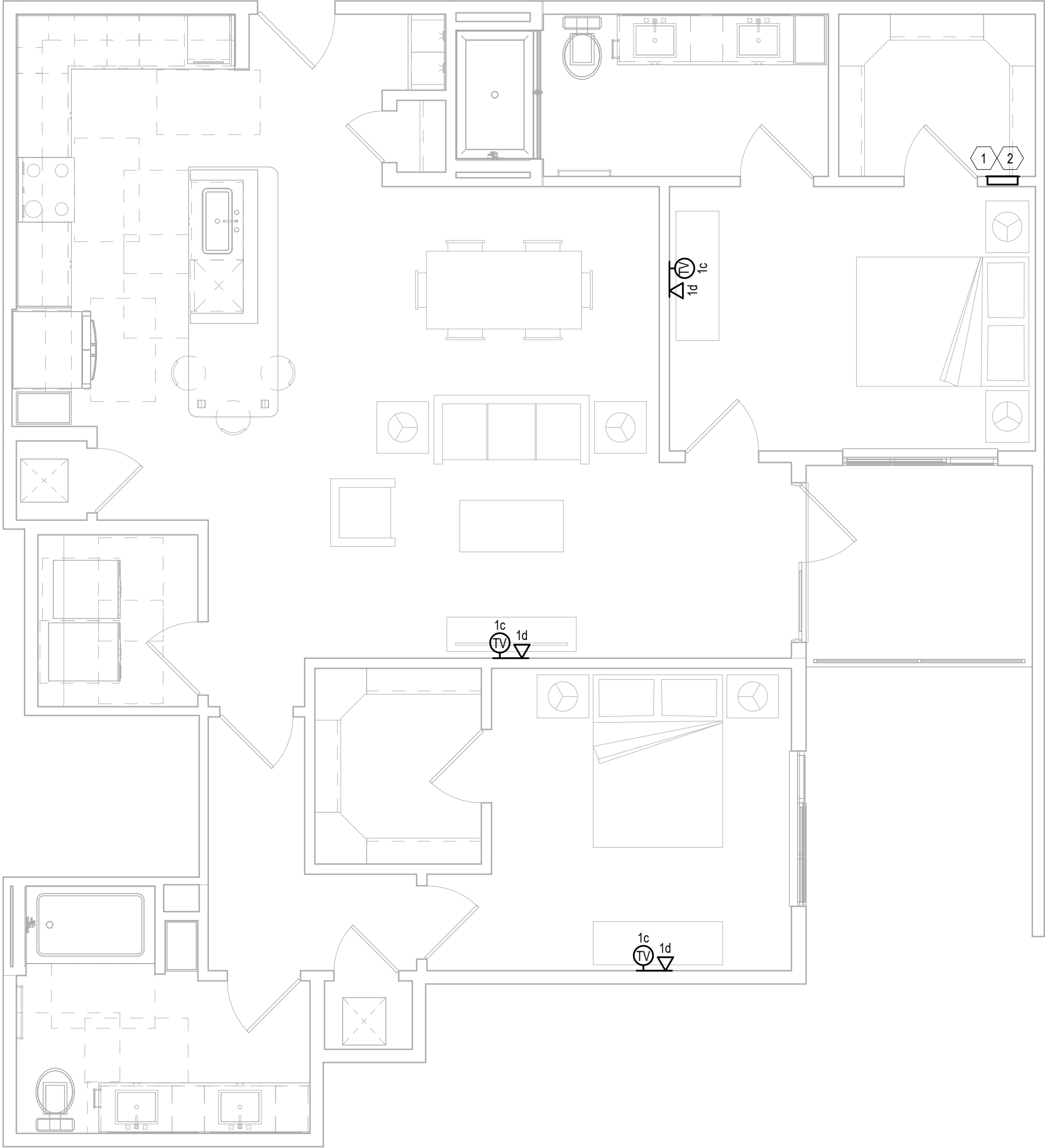
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Scale: 1/4" = 1'-0"



## 3 Units-T - B6

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



### KEY NOTES: UNIT PLANS

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### GENERAL NOTES: UNIT PLANS

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UNIT PLAN

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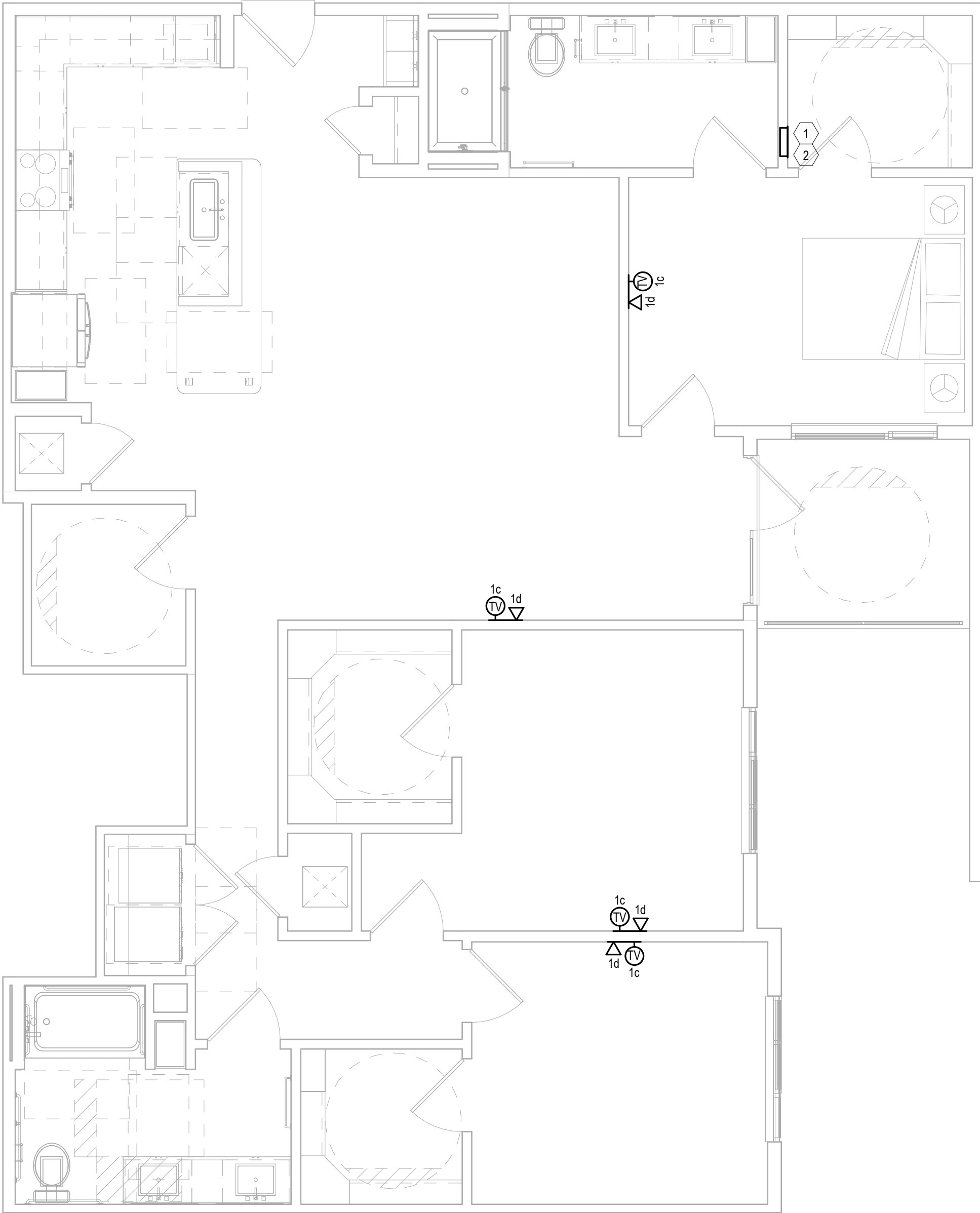


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2

Units-T - C1-TA

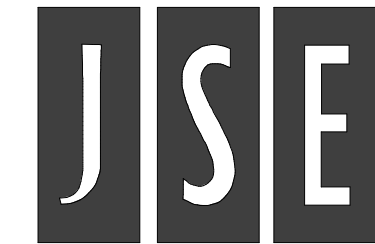
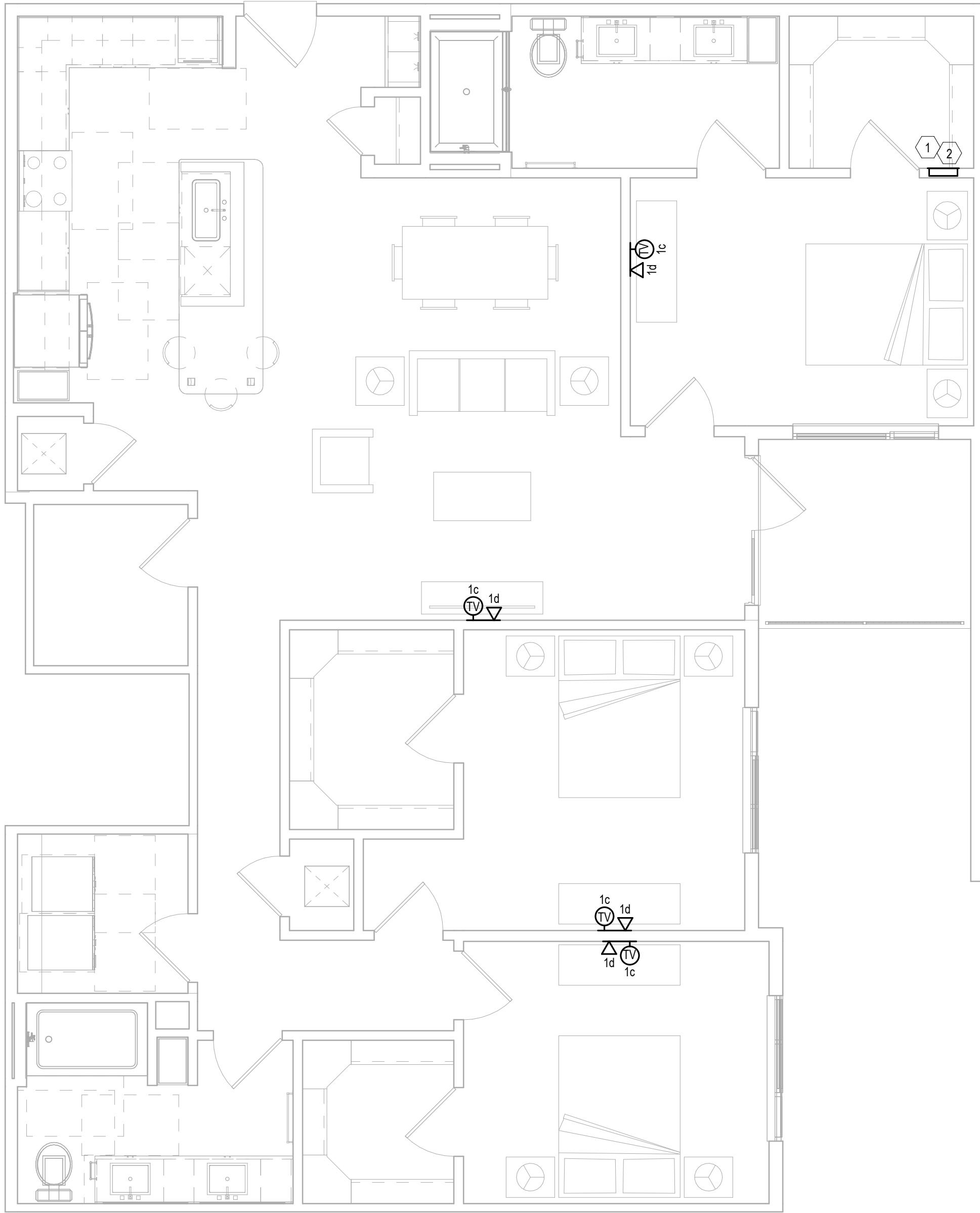
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1

Units-T - C1

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



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KEY NOTES: UNIT PLANS

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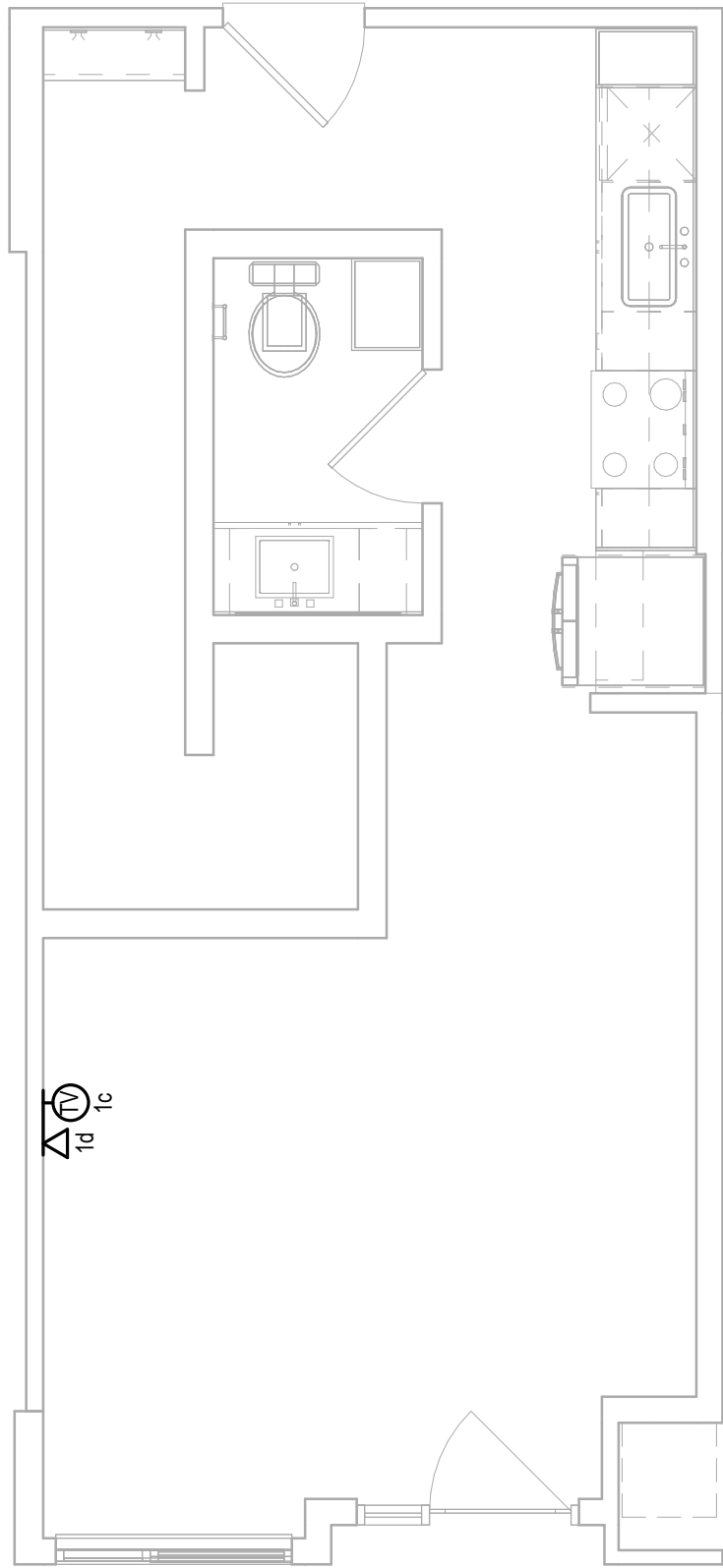
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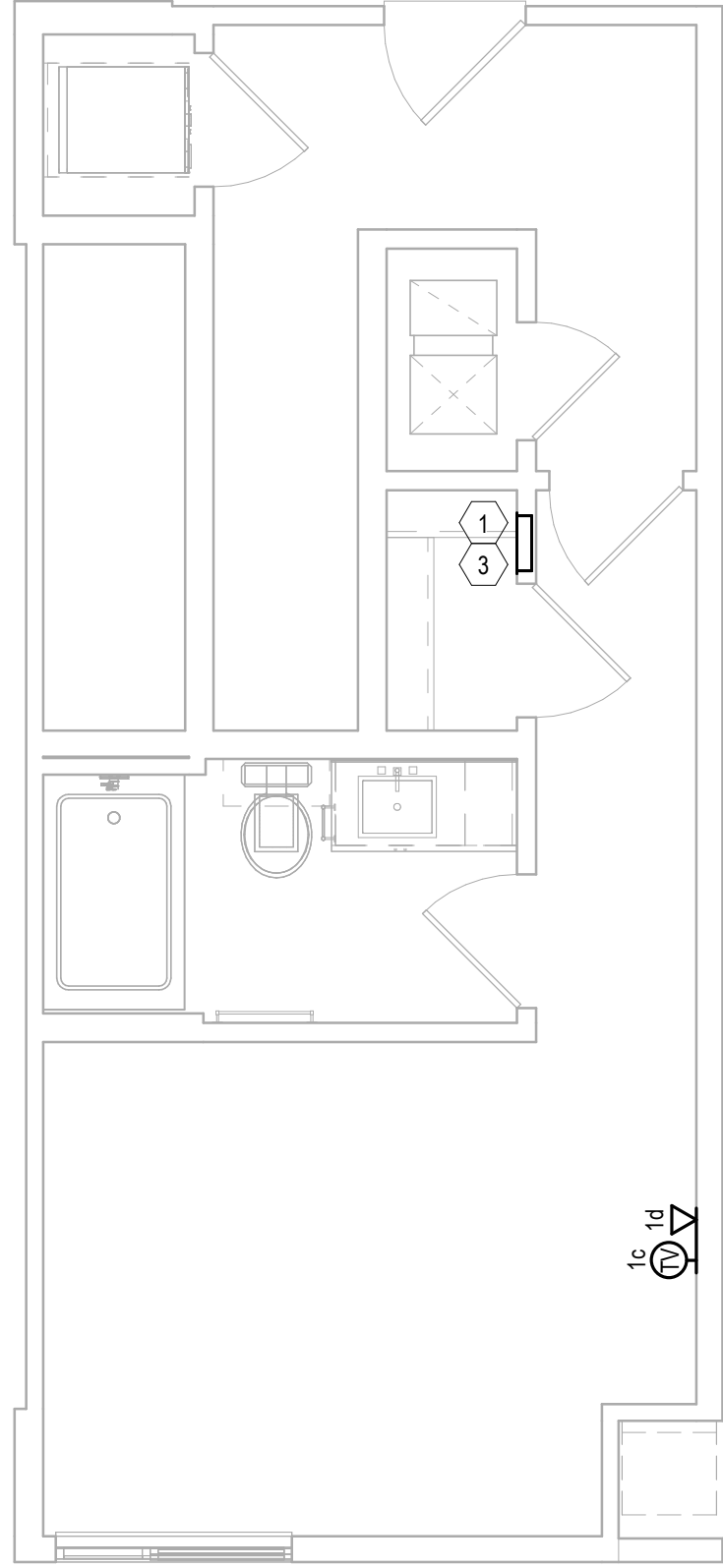
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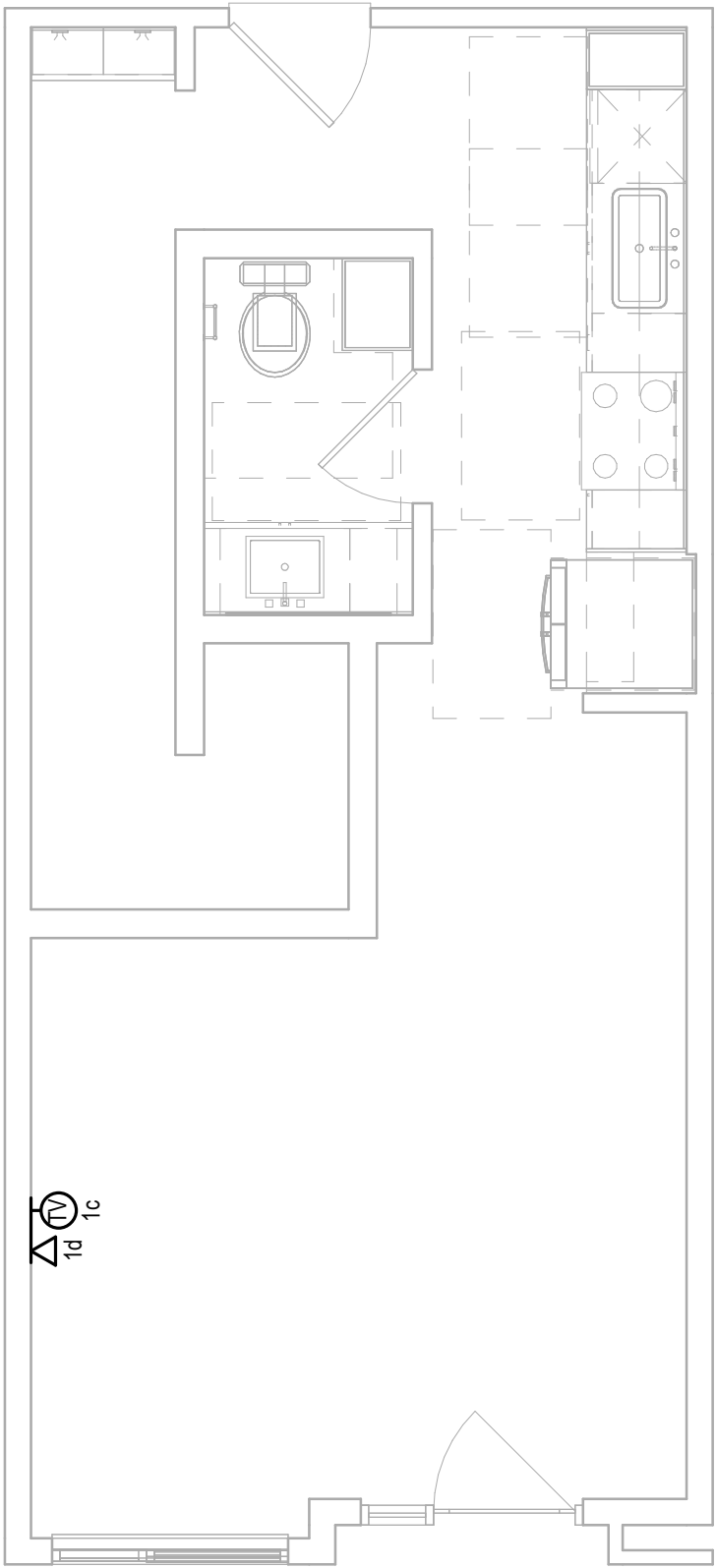
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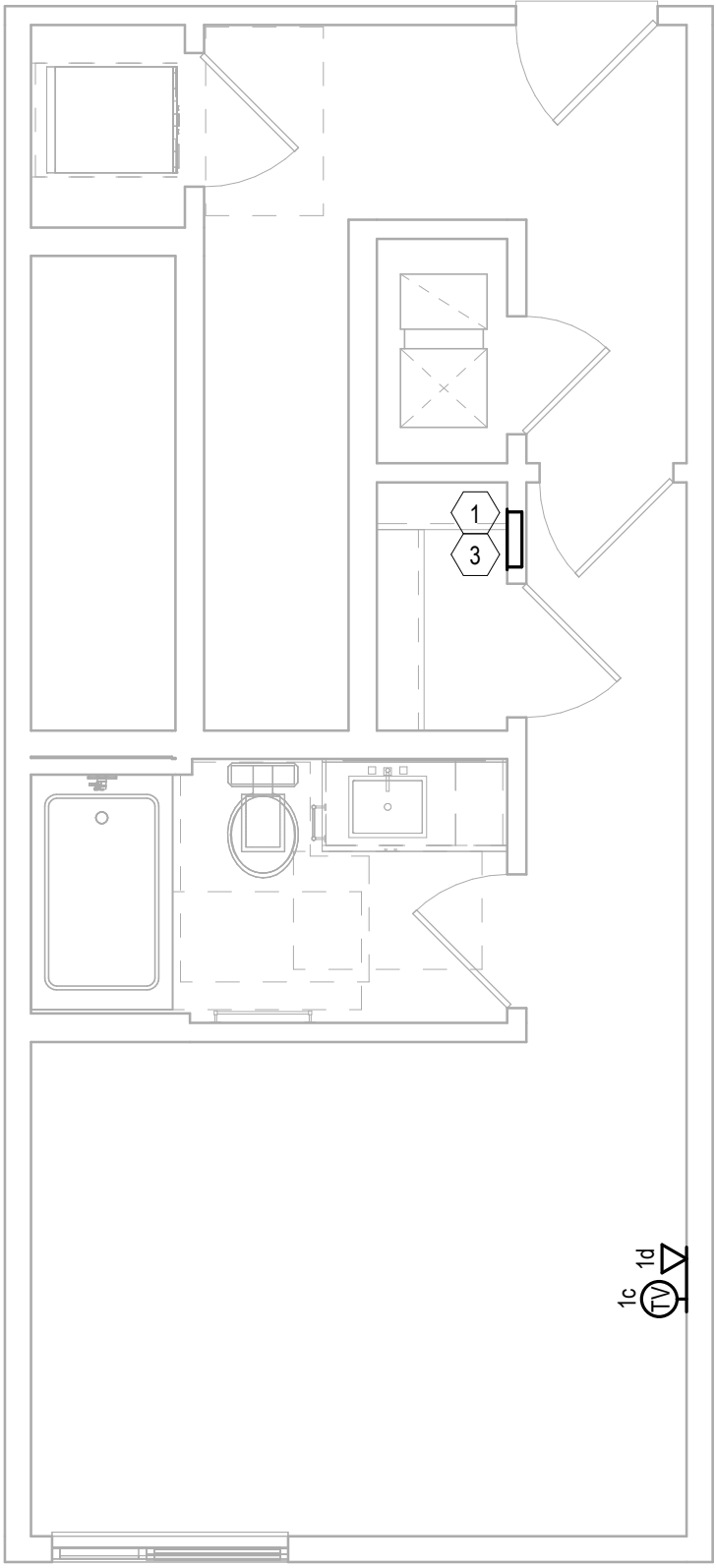
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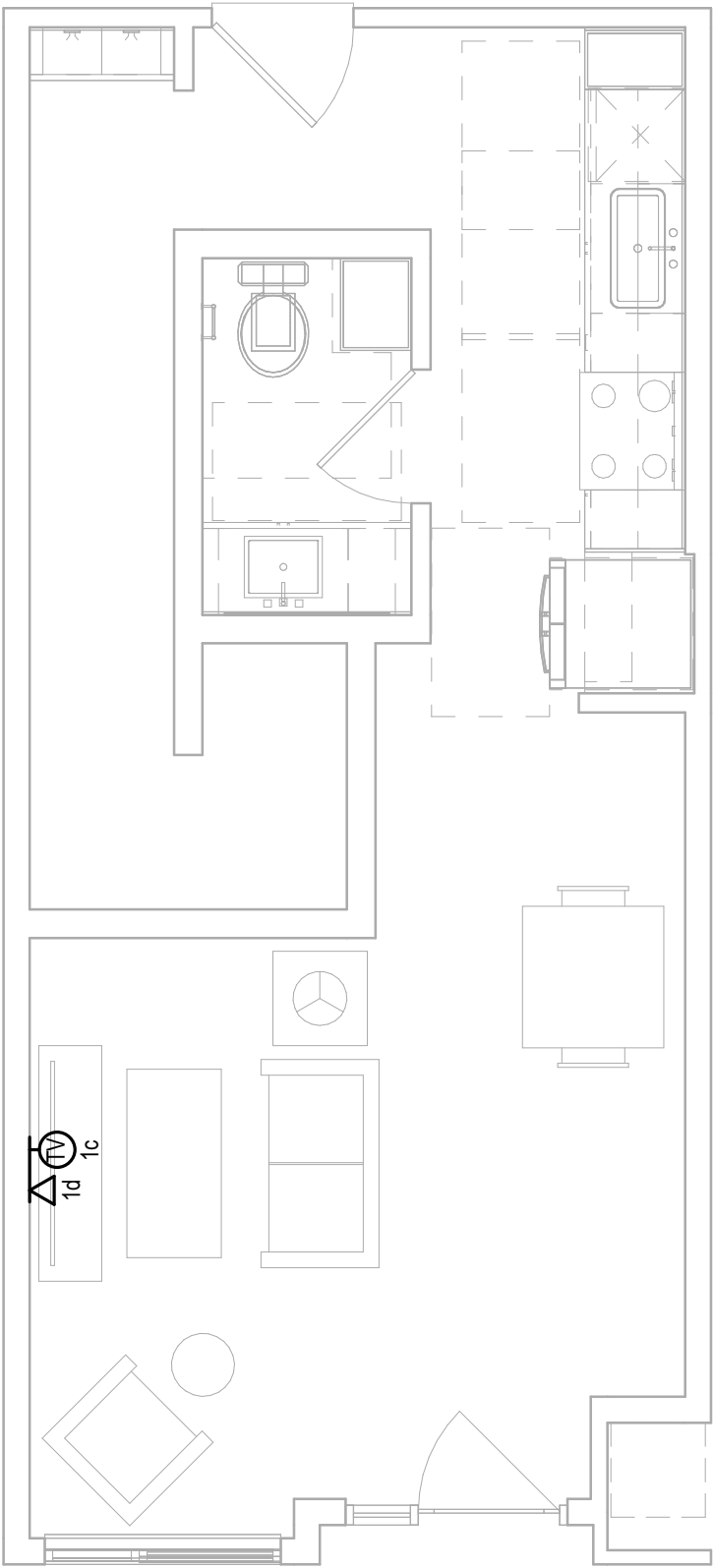
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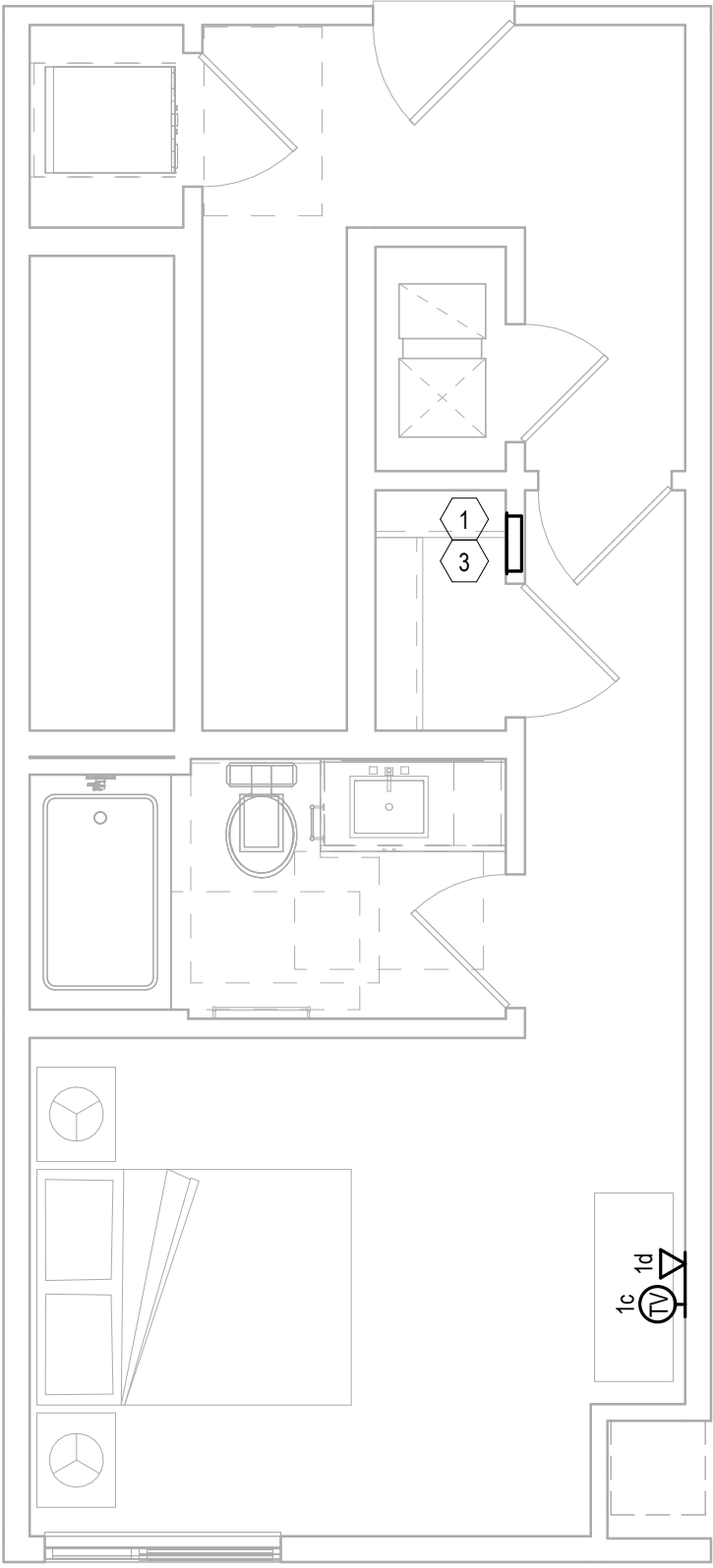
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Scale: 1/4" = 1'-0"



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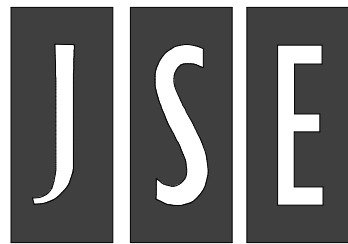
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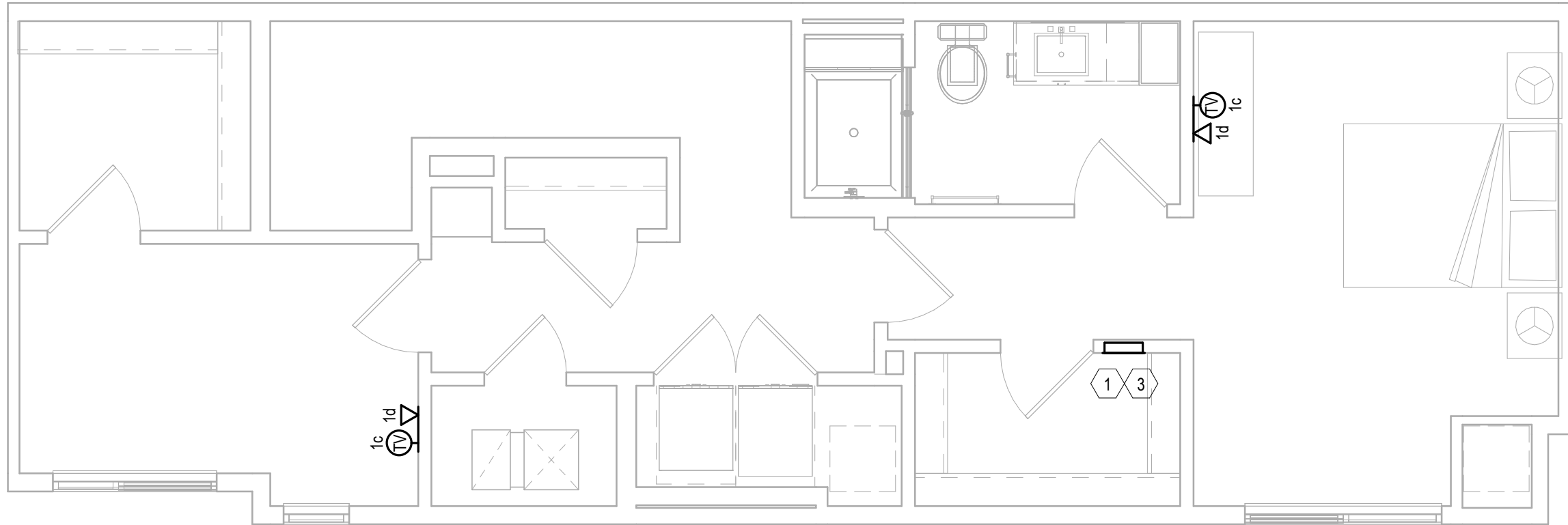
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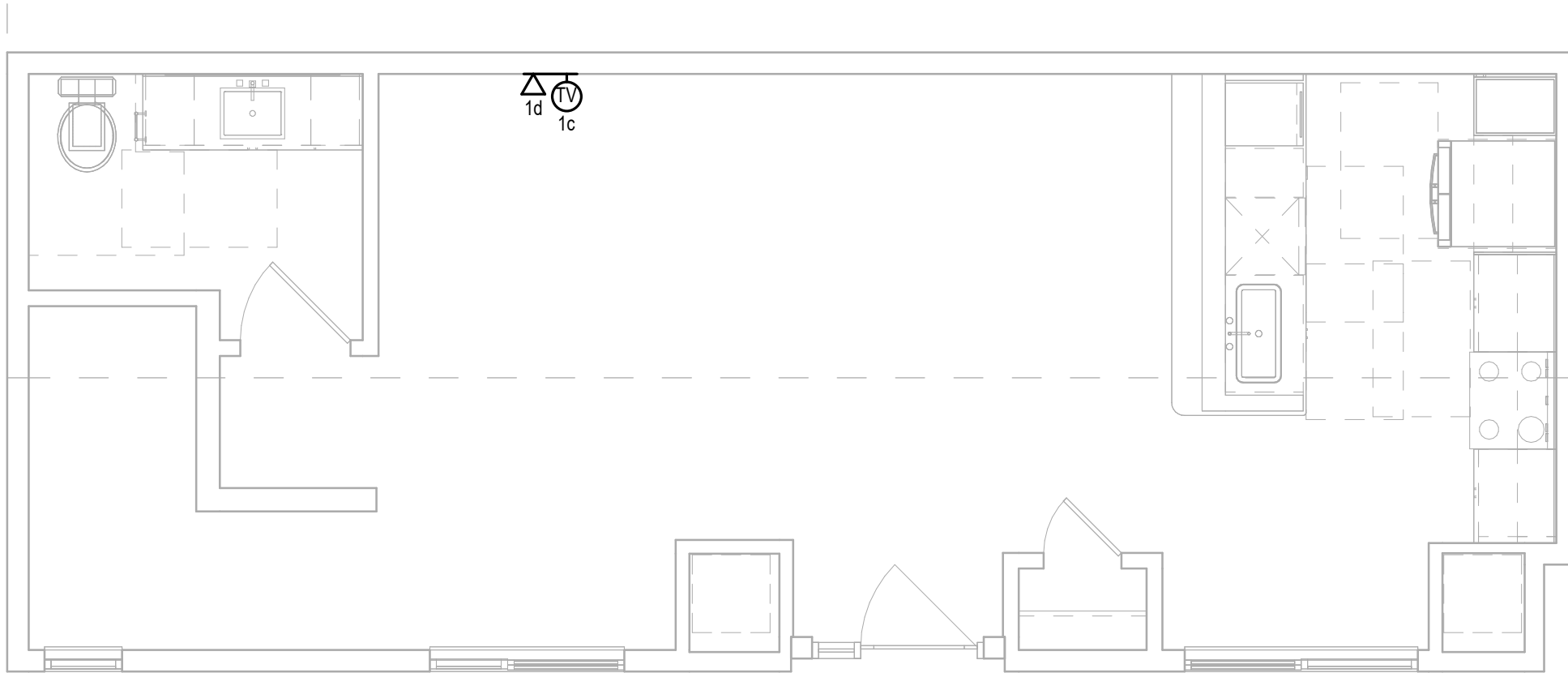
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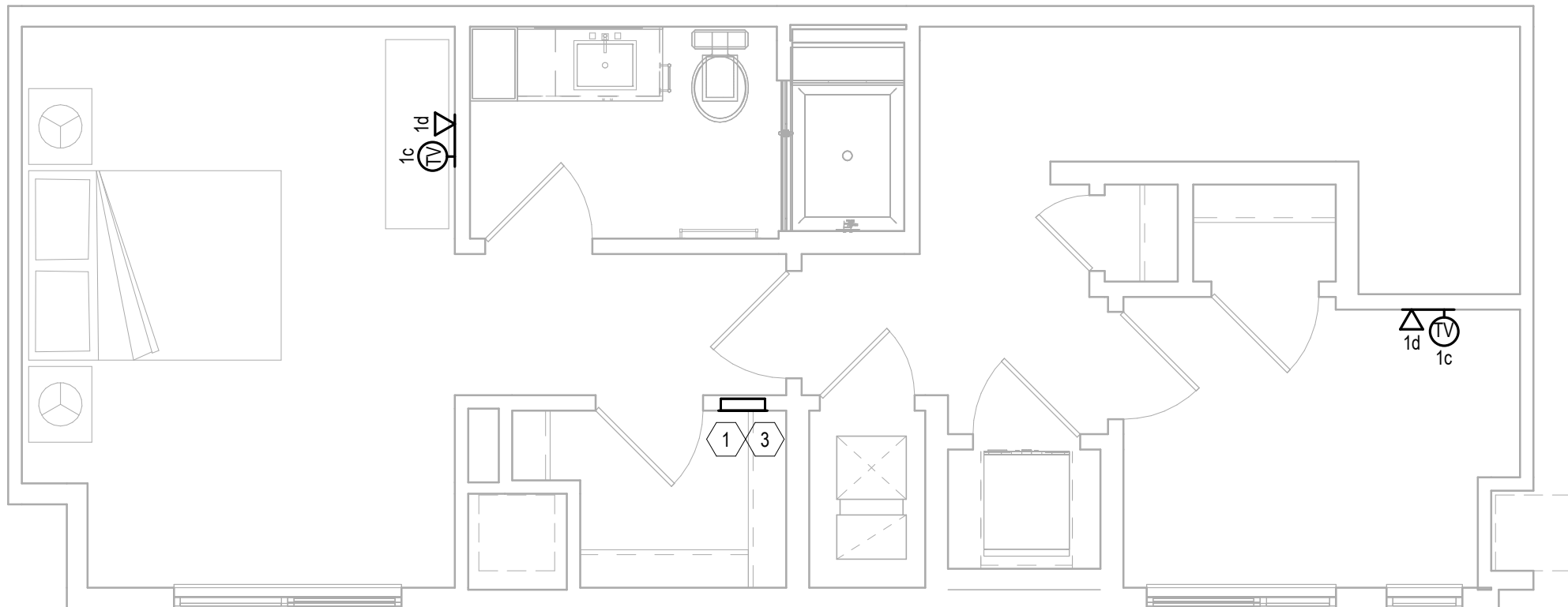
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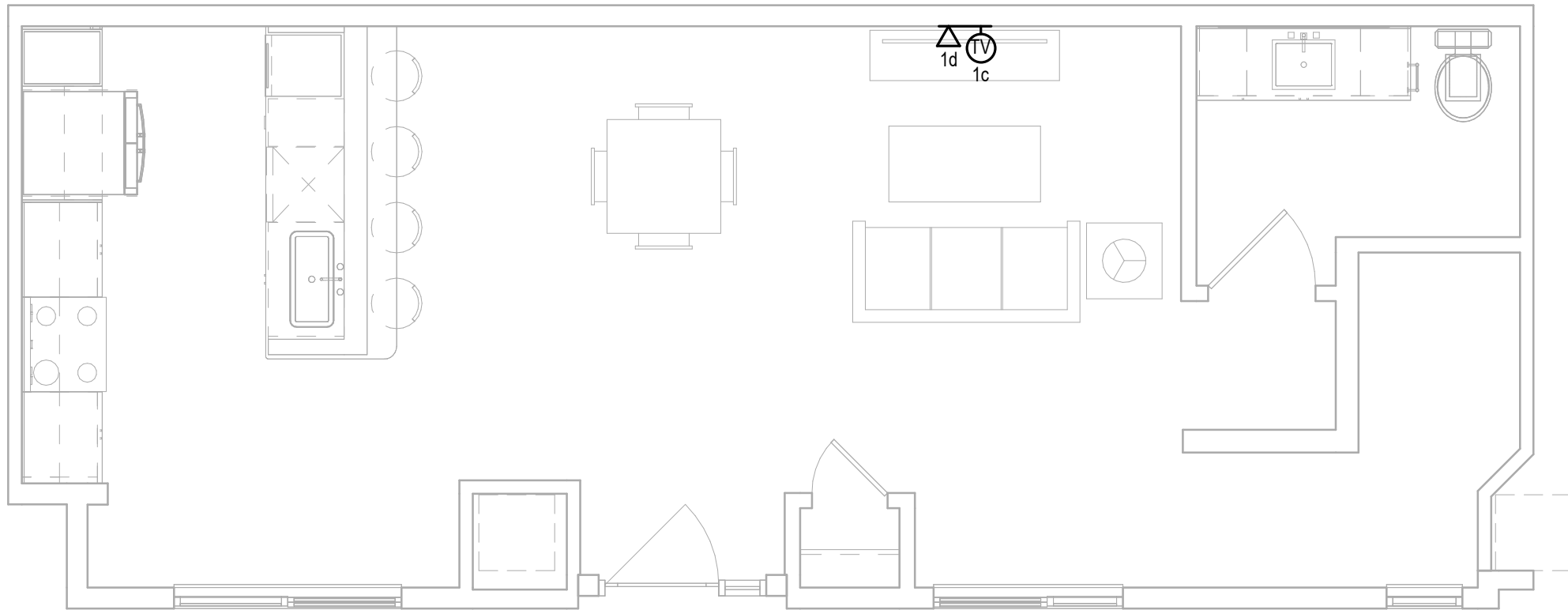
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UNIT ML-A2-LVL 1

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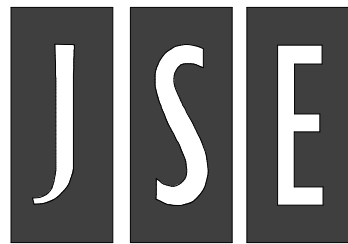


KEY NOTES: UNIT PLANS

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Project Number: 23080076

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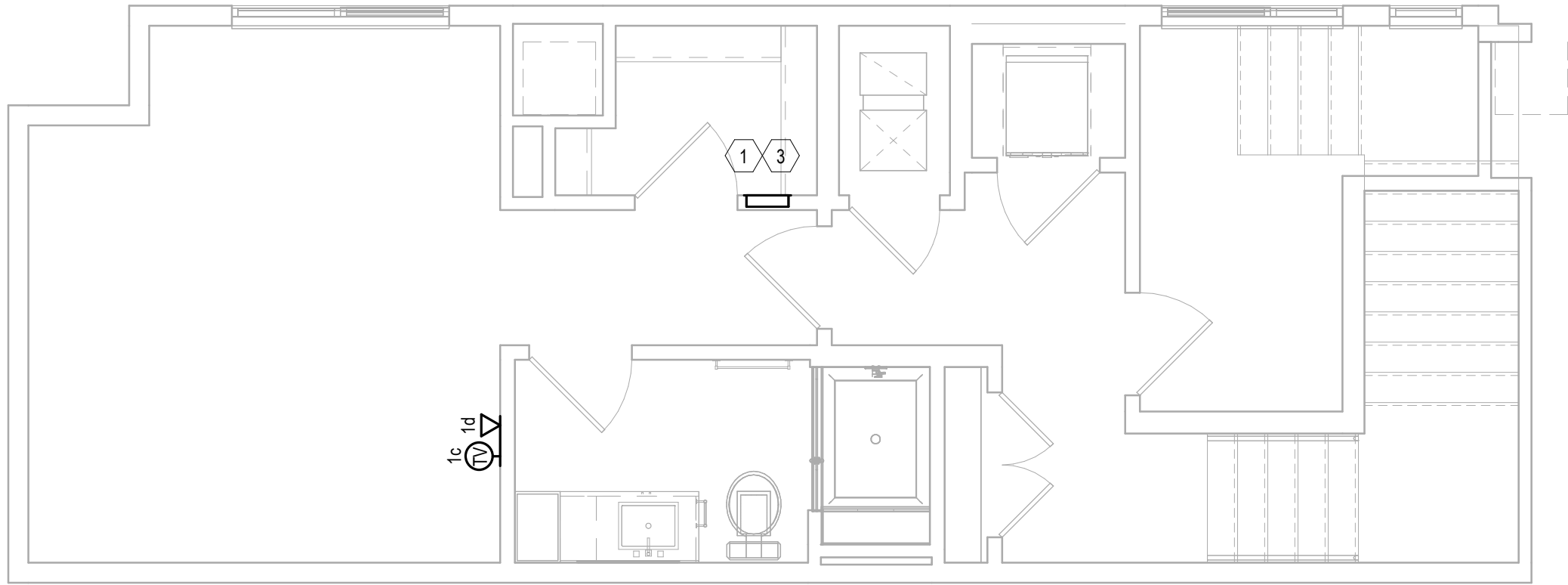
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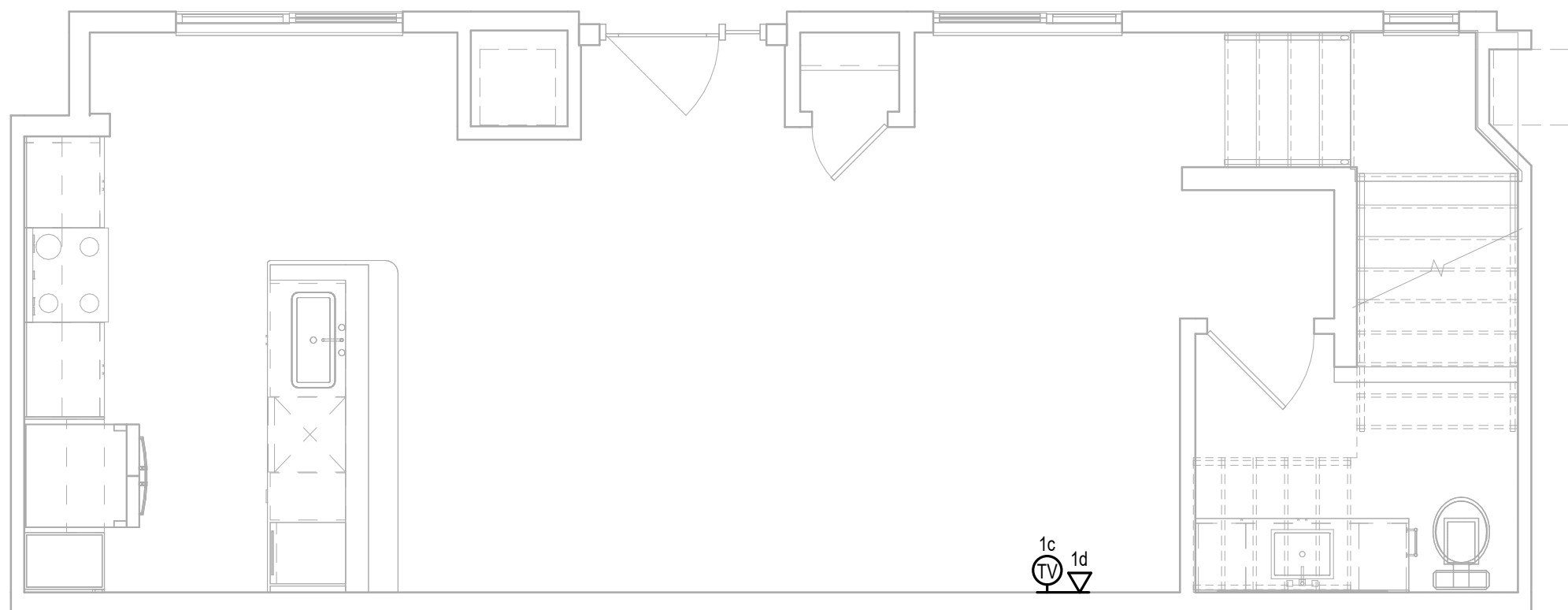
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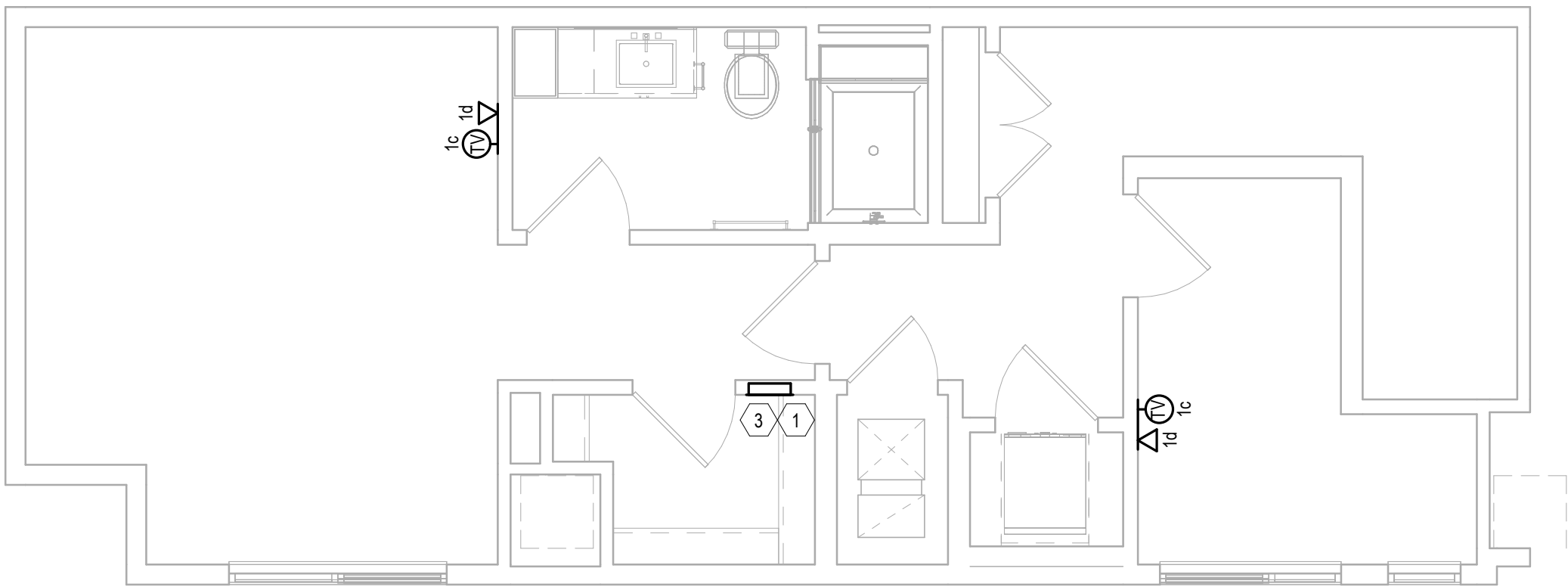
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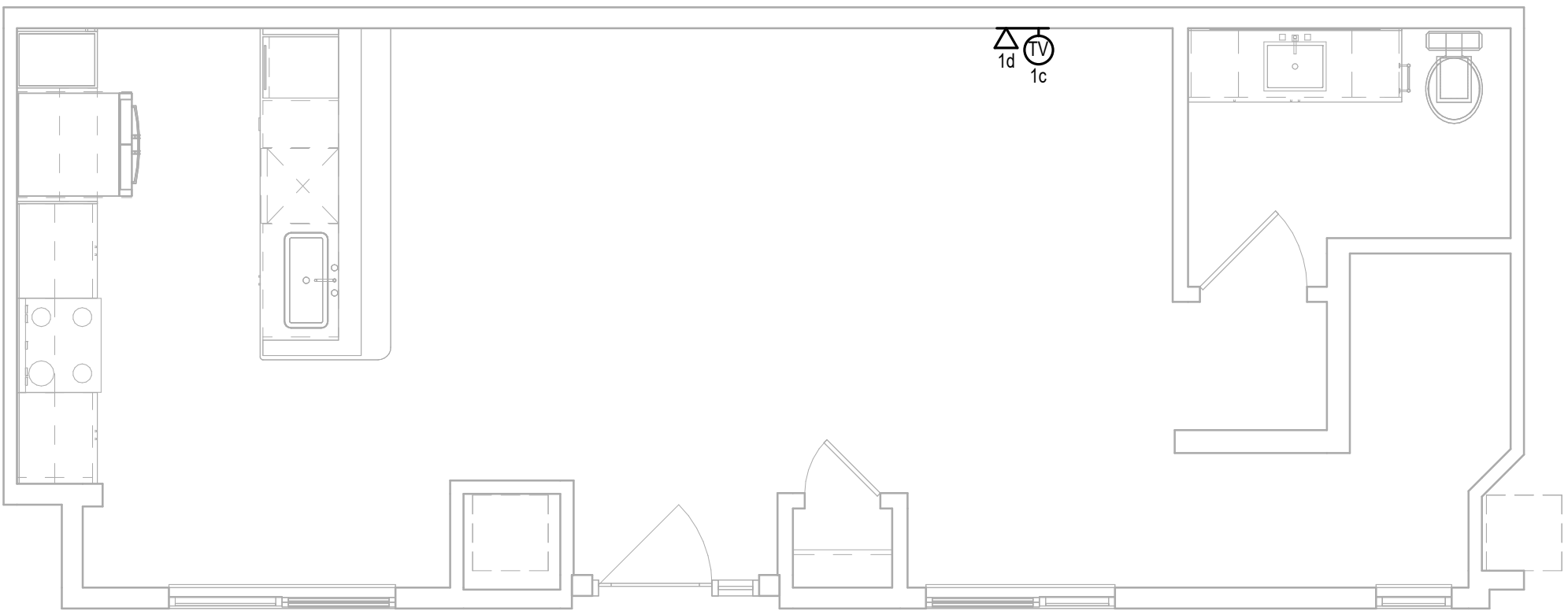
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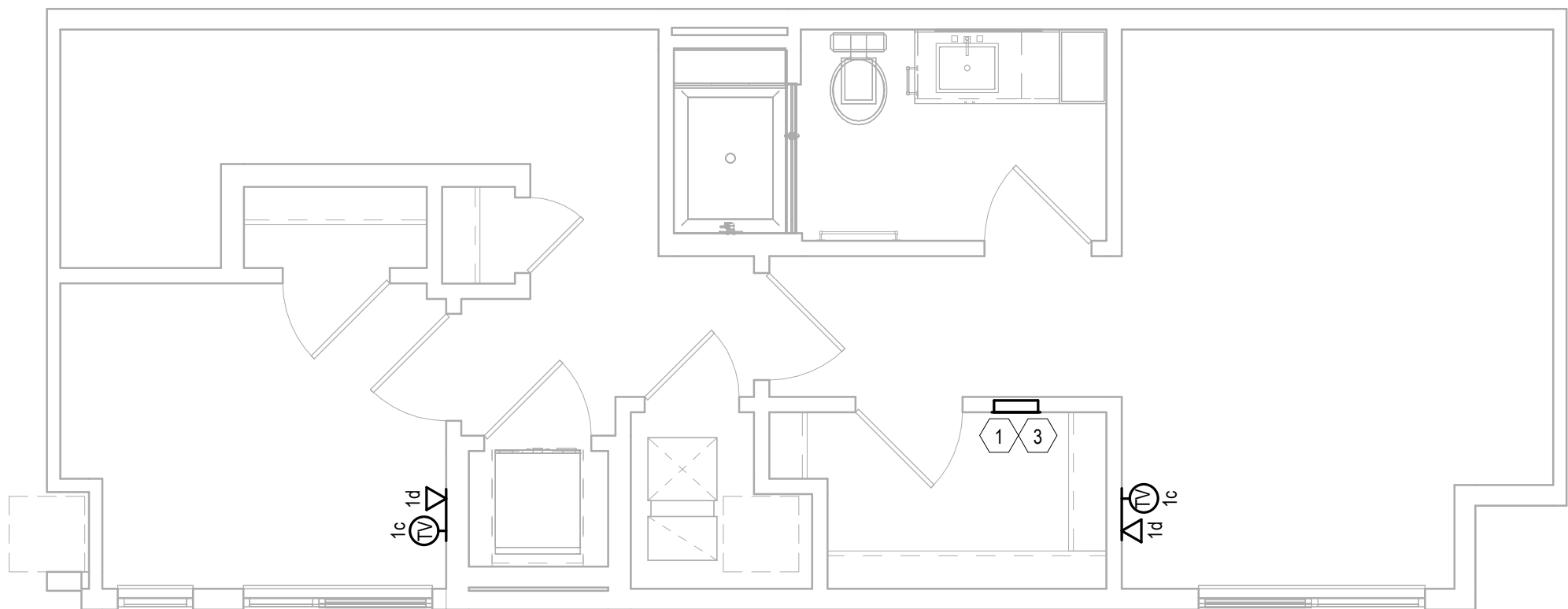
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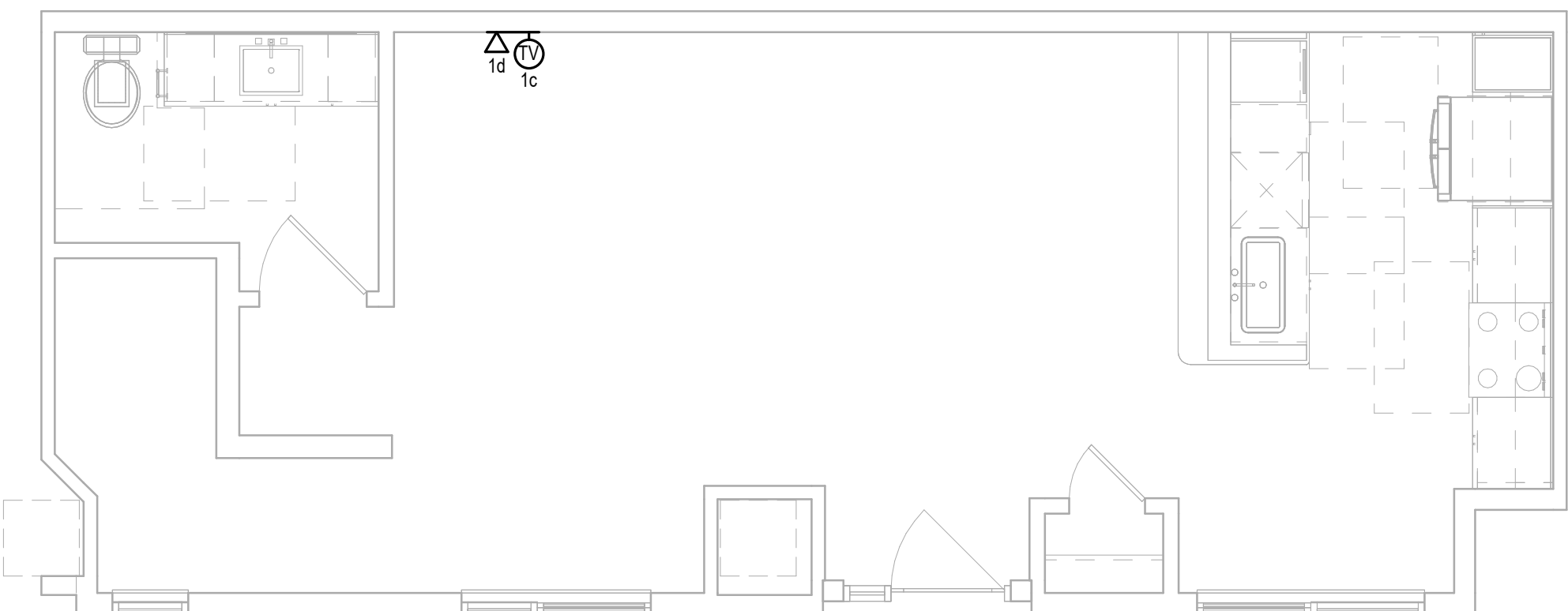
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Scale: 1/4" = 1'-0"



2 UNIT ML-A2B-LVL 2  
Scale: 1/4" = 1'-0"



1 UNIT ML-A2B-LVL 1  
Scale: 1/4" = 1'-0"

#### KEY NOTES: UNIT PLANS

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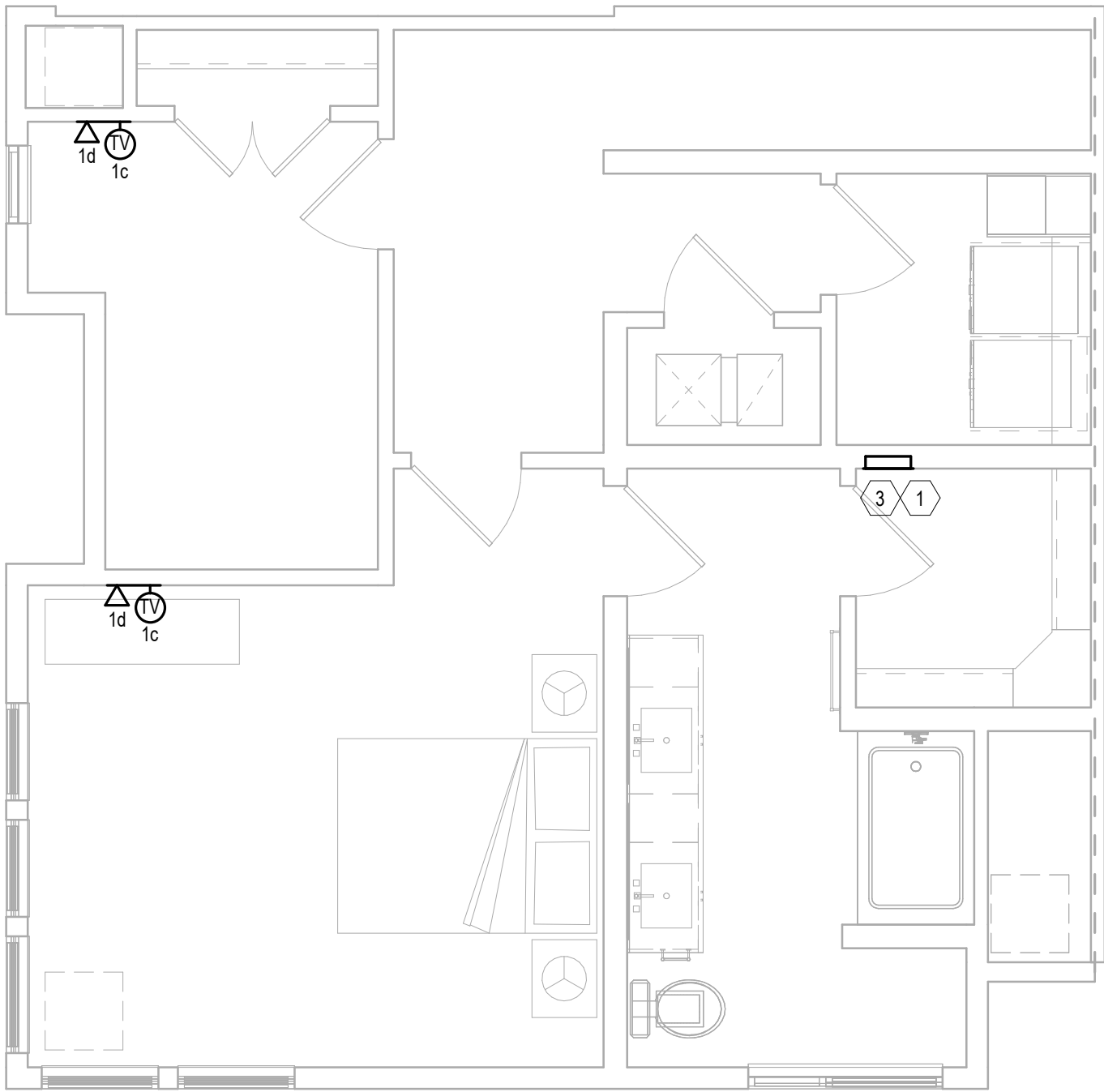
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2

UNIT ML-A3-LVL 2

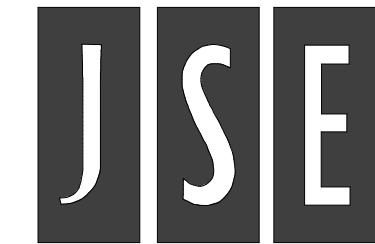
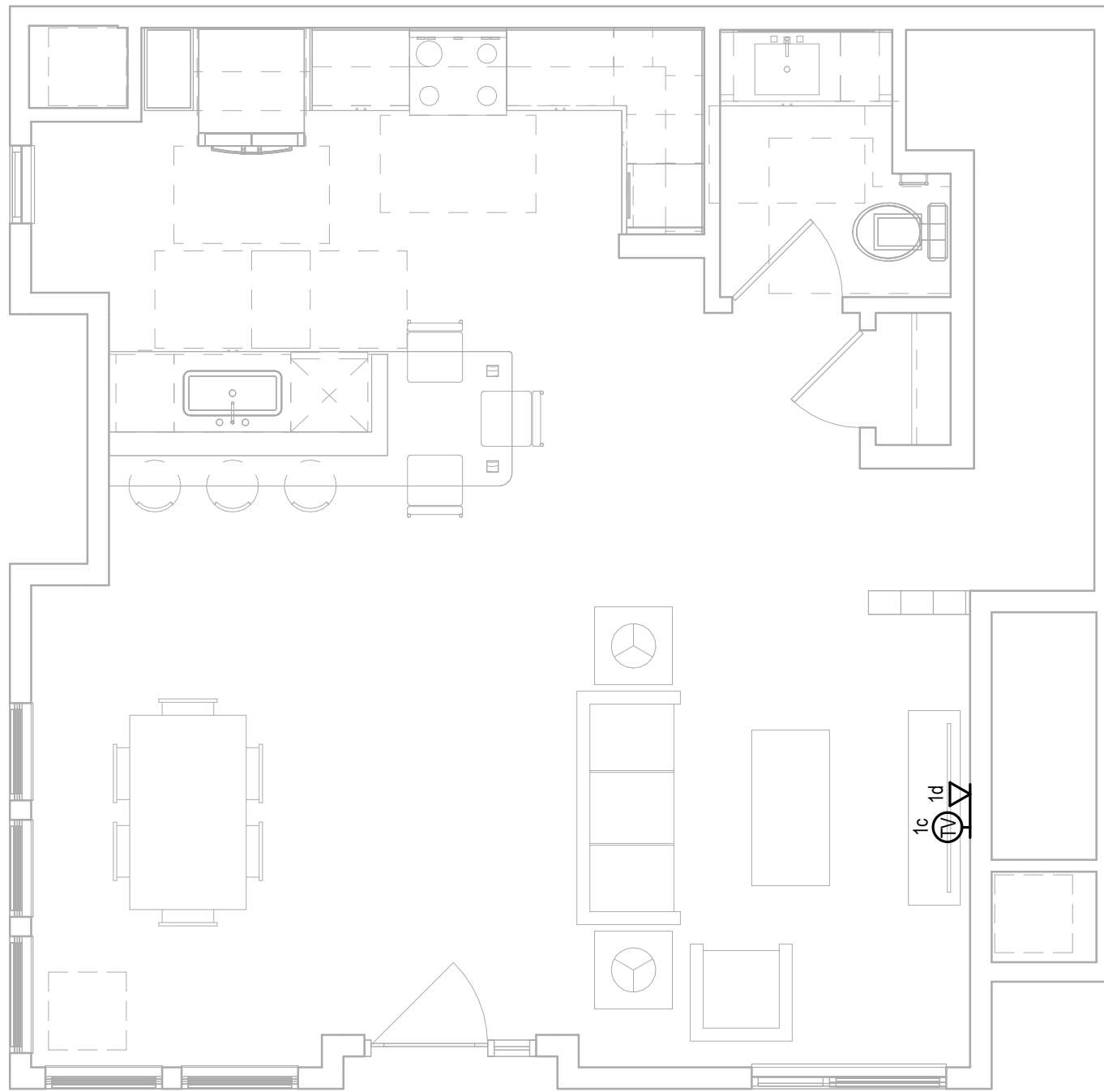
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1

UNIT ML-A3-LVL 1

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



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KEY NOTES: UNIT PLANS

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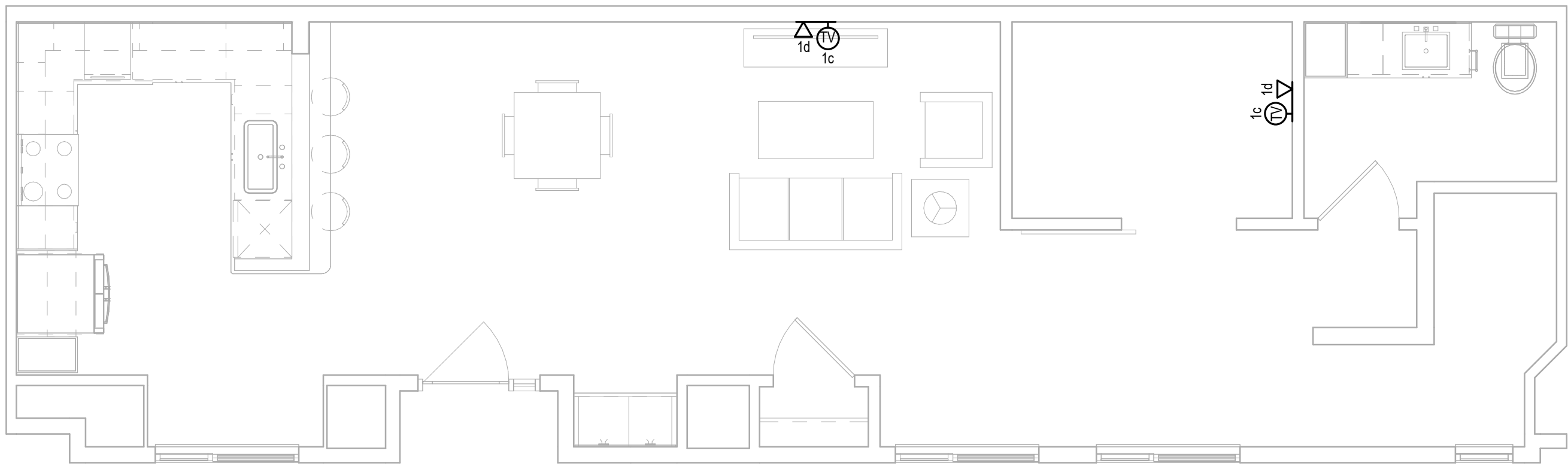
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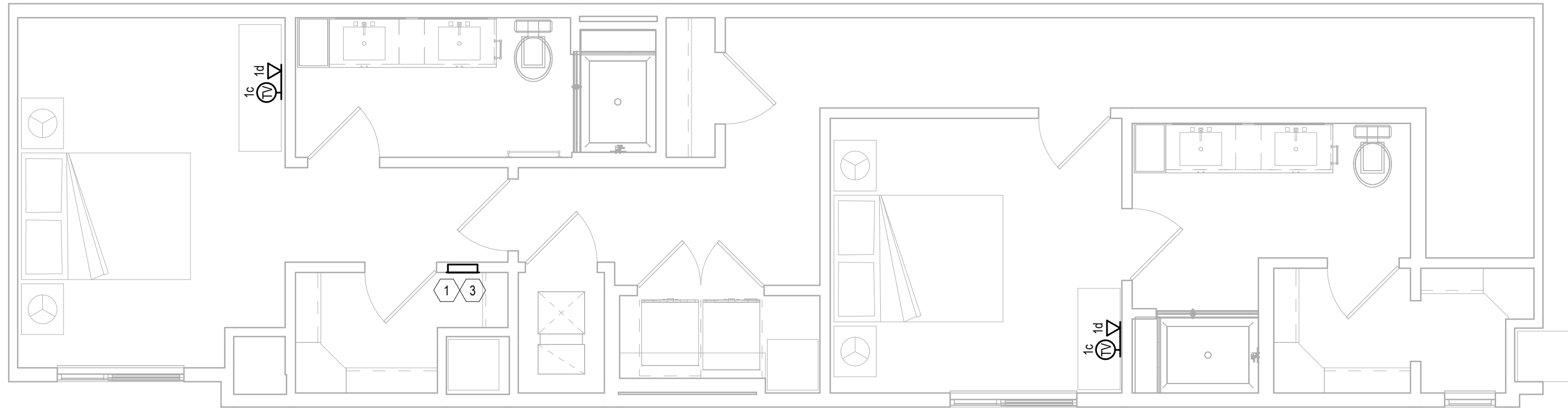


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1 UNIT ML-B1-LVL 1  
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2 UNIT ML-B1-LVL 2  
Scale: 1/4" = 1'-0"



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- 1 STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- 2 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- 3 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.

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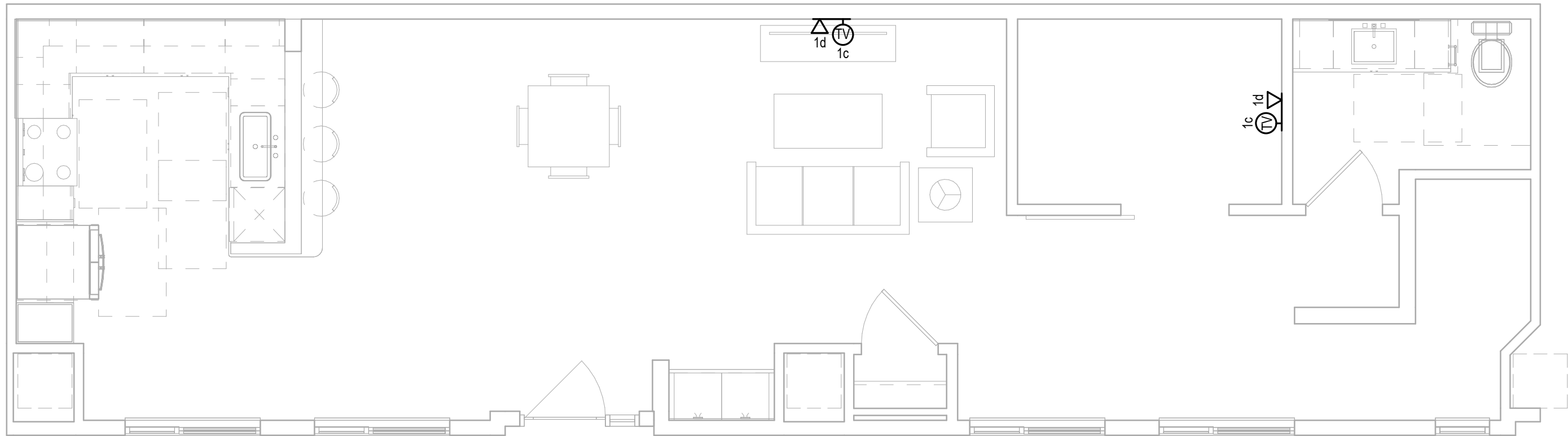
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DRAWING NO.  
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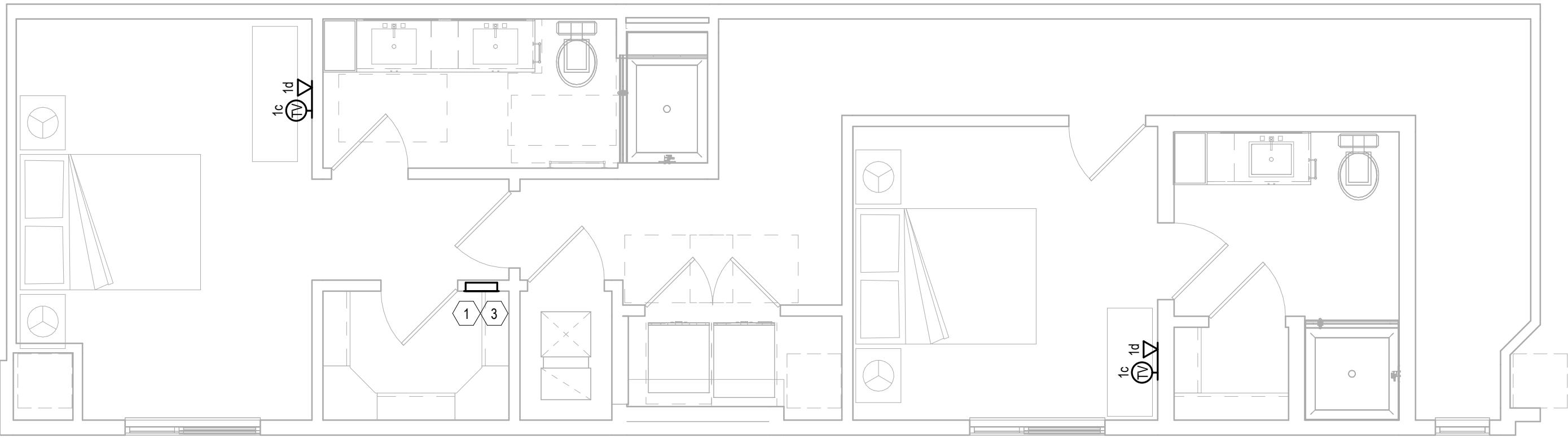
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1 UNIT ML-B2-LVL 1  
Scale: 1/4" = 1'-0"



2 UNIT ML-B2-LVL 2  
Scale: 1/4" = 1'-0"



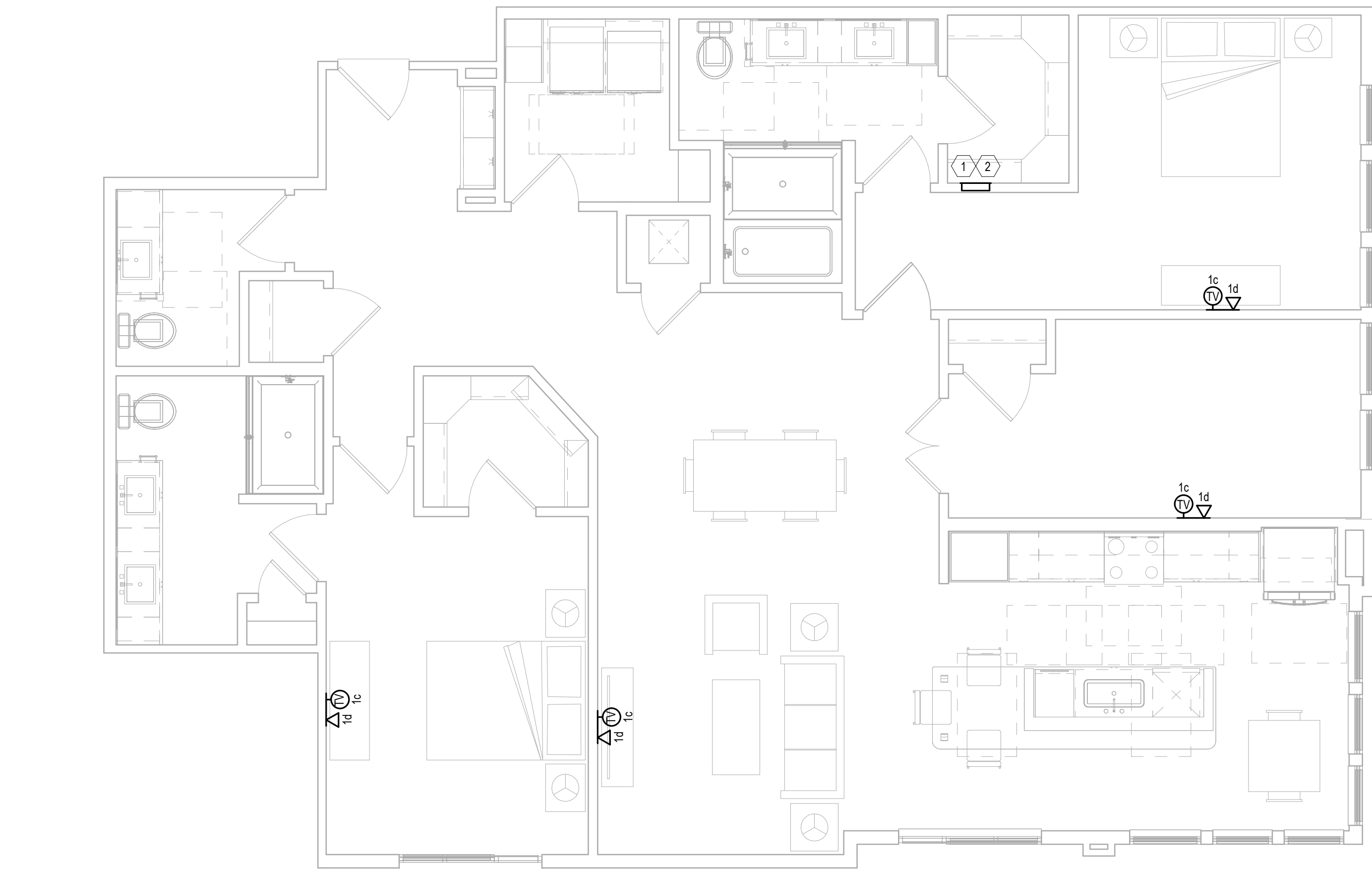
KEY NOTES: UNIT PLANS

- STRUCTURED MEDIA ENCLOSURE. ROUTE AND TERMINATE ALL VOICE, DATA, & TELEVISION CABLES WITHIN THE RESPECTIVE UNIT HERE (TYPICAL). SEE DETAIL B ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

GENERAL NOTES: UNIT PLANS

- G-1. ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.
- G-2. MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL.
- G-3. ALL VOICE & DATA CABLING SHALL BE CAT6.

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## UNIT PH-1

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

## KEY NOTES: UNIT PLANS

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- 2 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00.
- 3 HOME RUN ALL COAXIAL CABLES AND CAT6 CABLES TO NEAREST TELECOM ROOM VIA ONE (1)-1" CONDUIT TO THE NEAREST TELECOM ROOM. SEE DETAIL A ON SHEET T2.00 & SHEET T3.00 FOR EXACT CONDUIT ROUTING.

## GENERAL NOTES: UNIT PLANS

- |      |  |
|------|--|
| G-1. | ALL VOICE, DATA, & COAXIAL CABLES SHALL BE HOME RUN FROM EACH OUTLET TO THE STRUCTURED MEDIA CENTER WITHOUT SPLICES.             |
| G-2. | MOUNT DEVICES AT THE SAME HEIGHT AS ELECTRICAL DEVICES (UNLESS OTHERWISE NOTED), ALIGN COVER PLATES. COORDINATE WITH ELECTRICAL. |
| G-3. | ALL VOICE & DATA CABLING SHALL BE CAT6.  |



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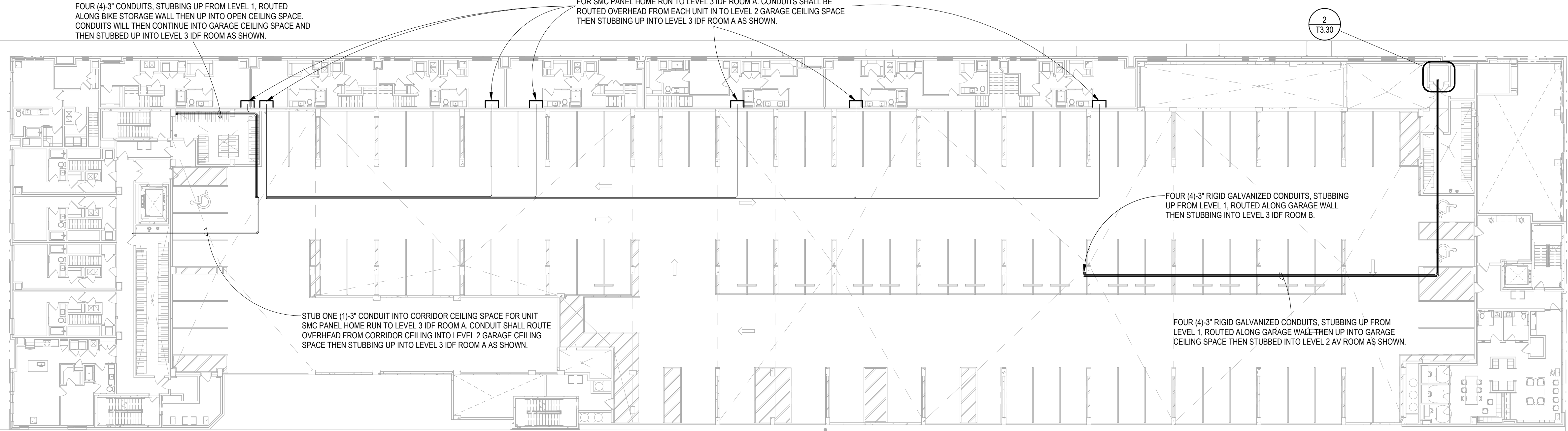
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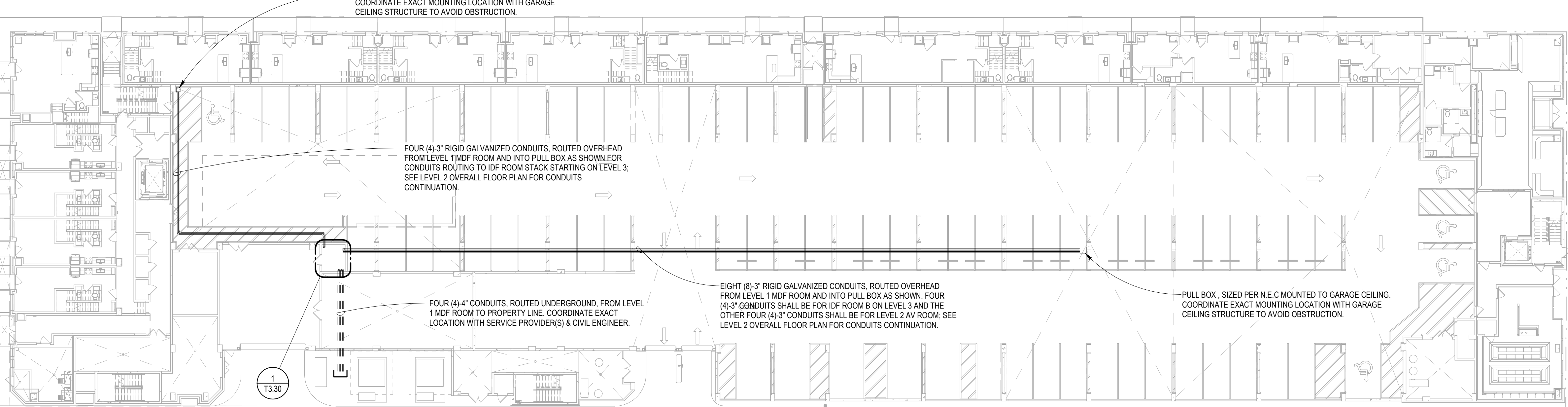
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2 OVERALL BUILDING PLAN - LEVEL 2  
Scale: 1" = 20'-0"



1 OVERALL BUILDING PLAN - LEVEL 1  
Scale: 1" = 20'-0"

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SHEET TITLE:  
**OVERALL BUILDING  
PLAN - LEVEL 1 & 2**

DRAWING NO.  
**T3.00**

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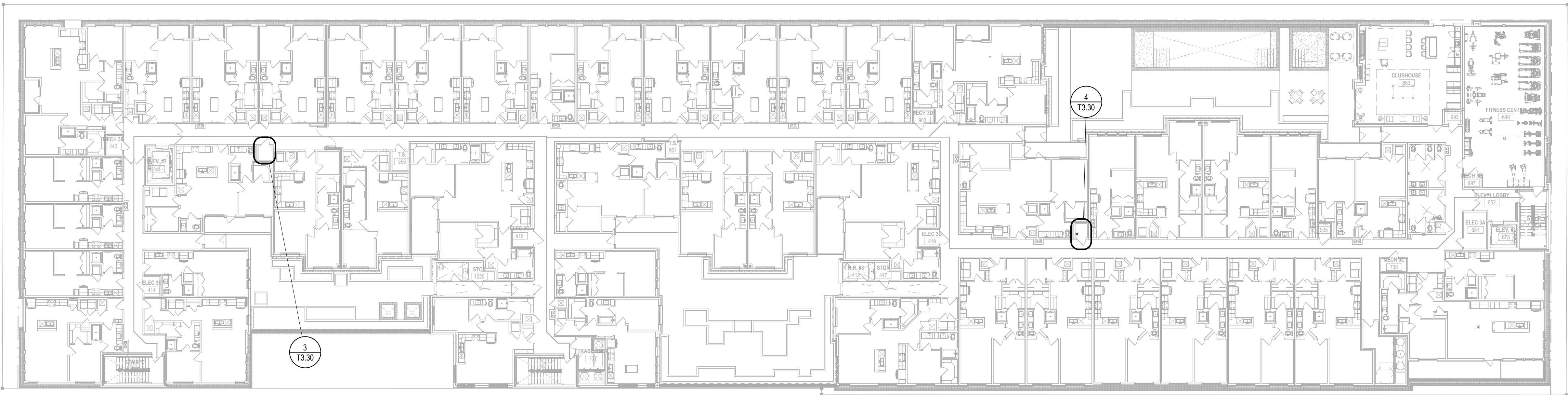
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1

OVERALL BUILDING PLAN - LEVEL 3

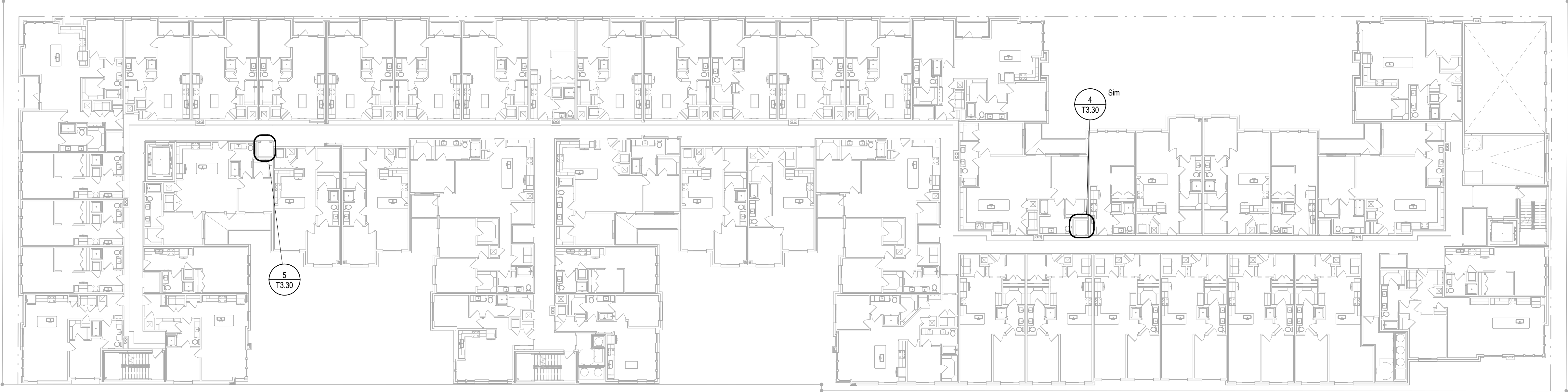
Scale: 1" = 20'-0"



2

OVERALL BUILDING PLAN - LEVEL 4

Scale: 1" = 20'-0"



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SHEET TITLE:  
**OVERALL BUILDING  
PLAN - LEVEL 3 & 4**

DRAWING NO.  
**T3.01**

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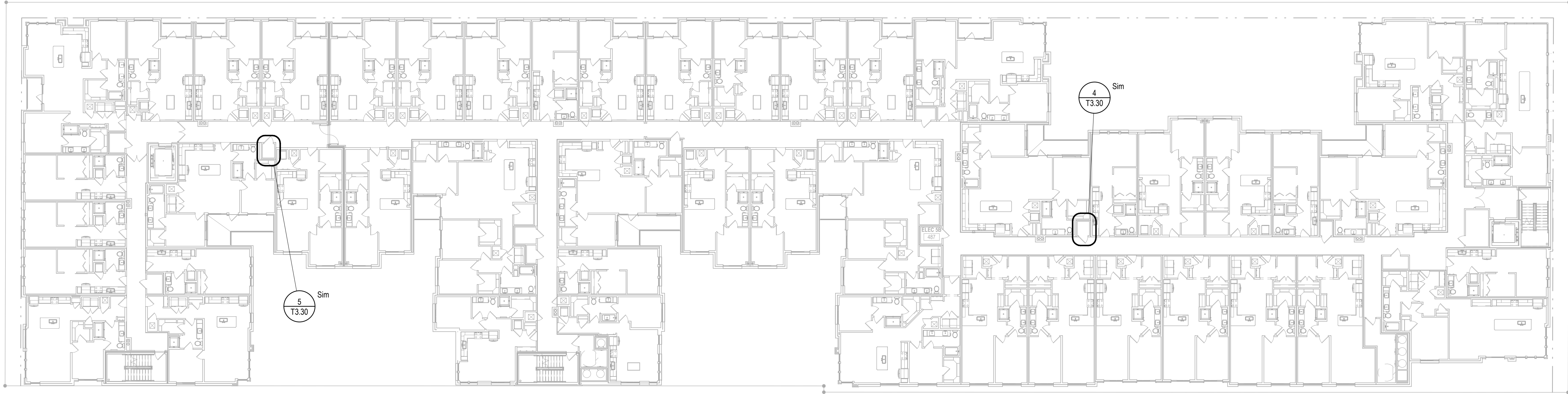
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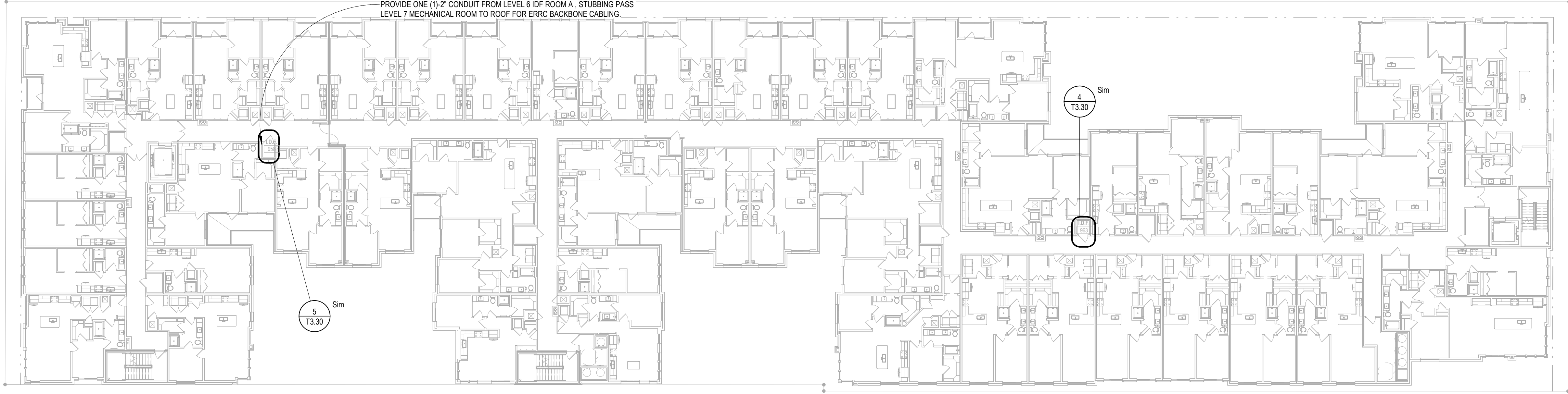


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1 OVERALL POWER PLAN - LEVEL 5  
Scale: 1" = 20'-0"



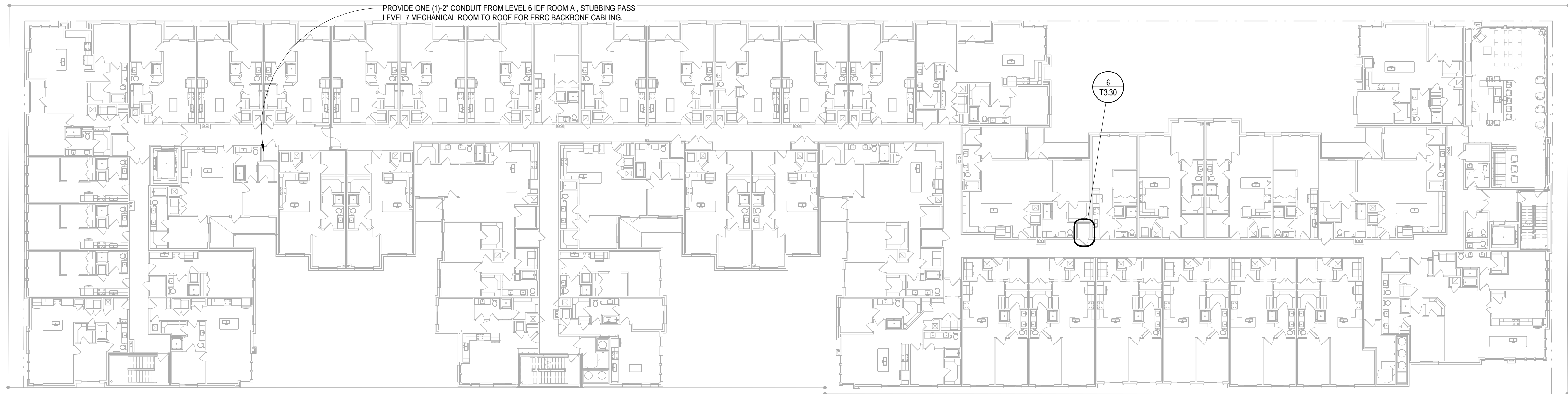
2 OVERALL POWER PLAN - LEVEL 6  
Scale: 1" = 20'-0"



PROVIDE ONE (1)-2" CONDUIT FROM LEVEL 6 IDF ROOM A, STUBBING PASS  
LEVEL 7 MECHANICAL ROOM TO ROOF FOR ERRC BACKBONE CABLING.

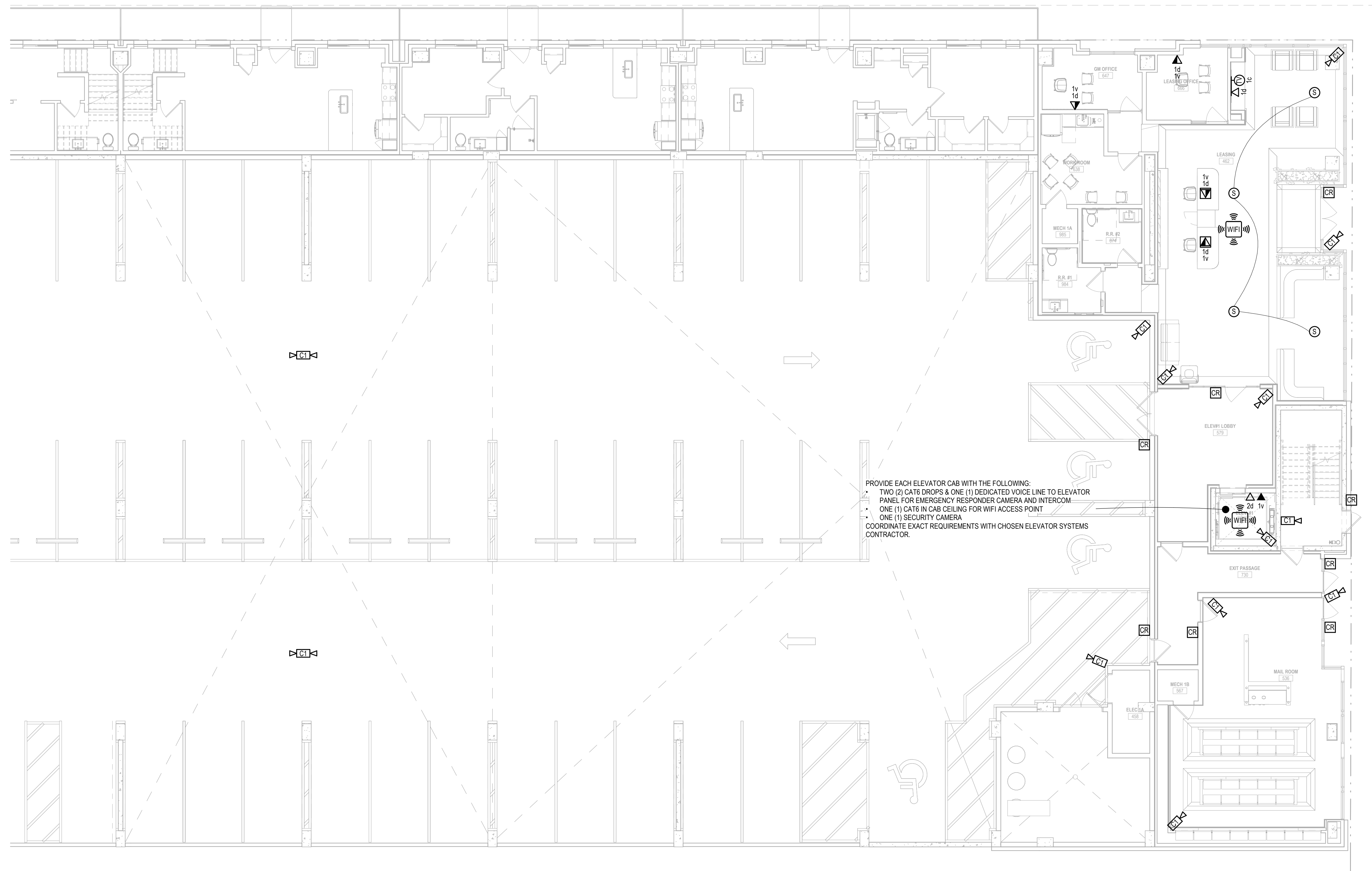
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2 OVERALL BUILDING PLAN - ROOF  
Scale: 1" = 20'-0"



1 OVERALL BUILDING PLAN - LEVEL 7  
Scale: 1" = 20'-0"

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1 ENLARGED TELECOM PLAN - BUILDING #1A - LEVEL 1  
Scale: 1/8" = 1'-0"

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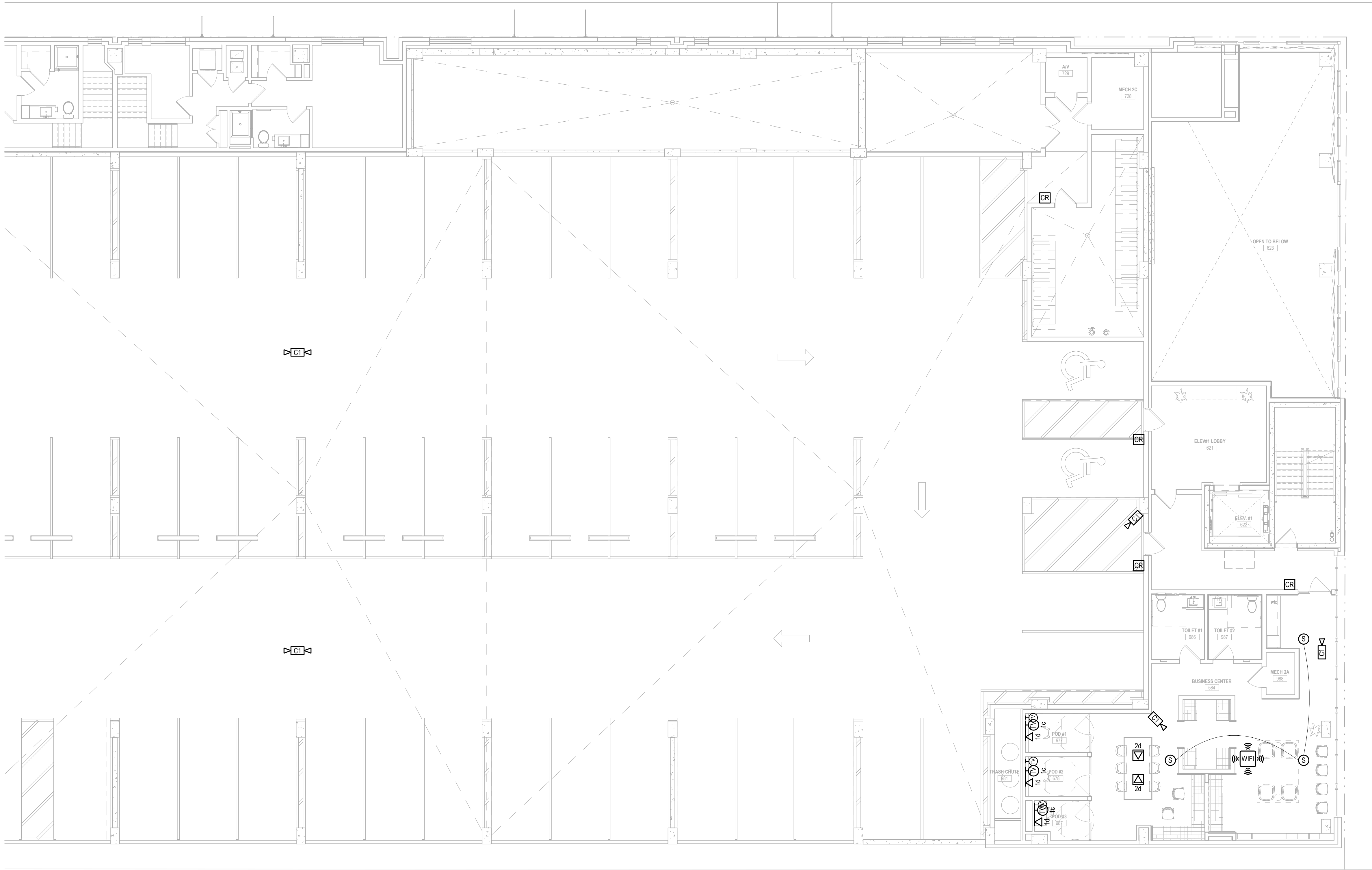
Permits represented can legally result in the construction of such construction or buildings using method herein stated.

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ENLARGED TELECOM PLAN - BUILDING #1A - LEVEL 2

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



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BUILDING PLAN -  
BLDG. #1A - LVL. 2**

DRAWING NO.

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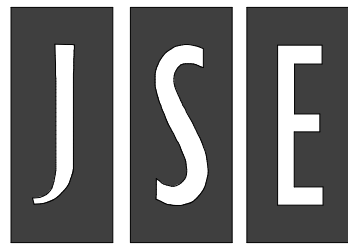
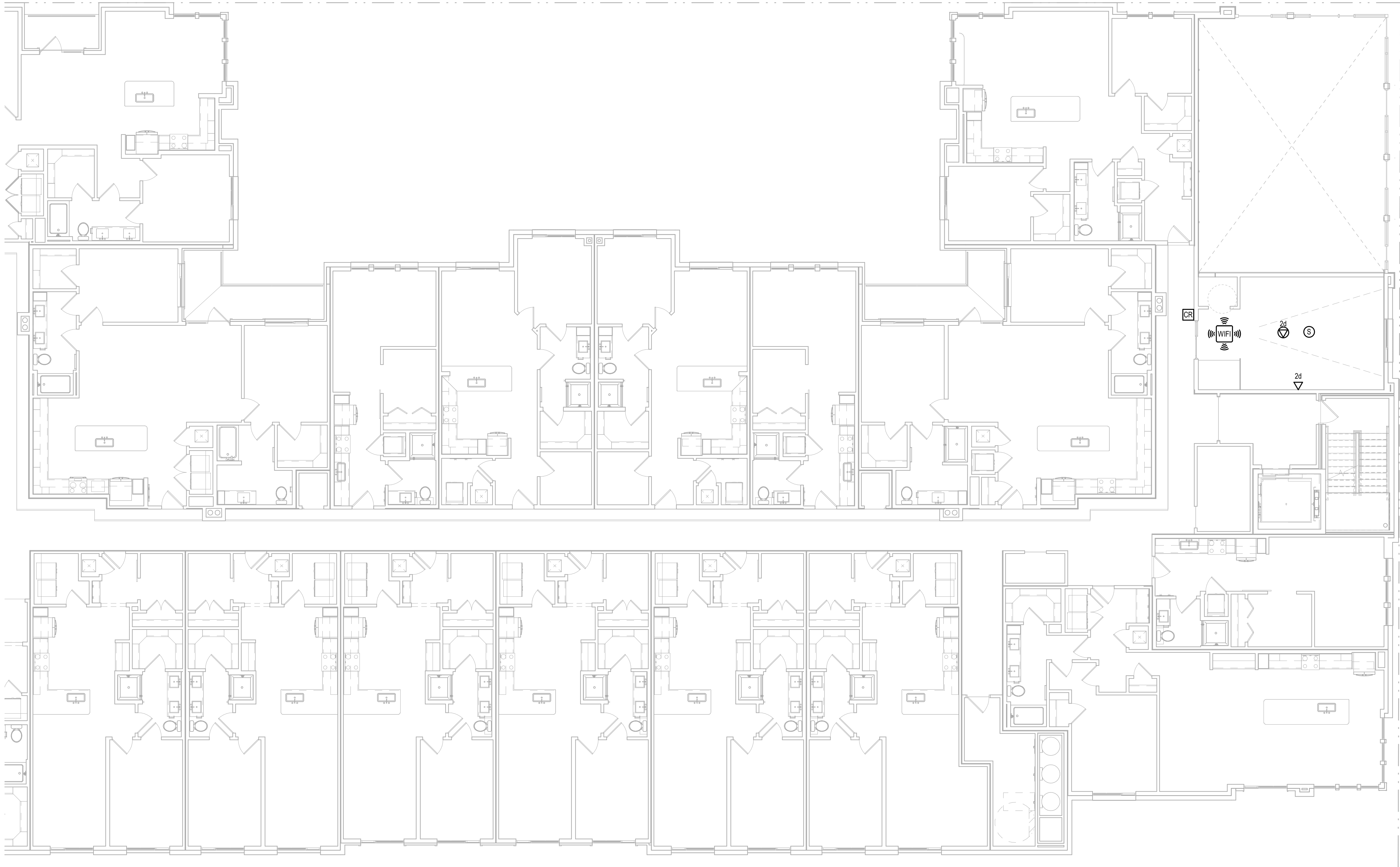


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1

ENLARGED TELECOM PLAN - BUILDING #1A - LEVEL 4

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



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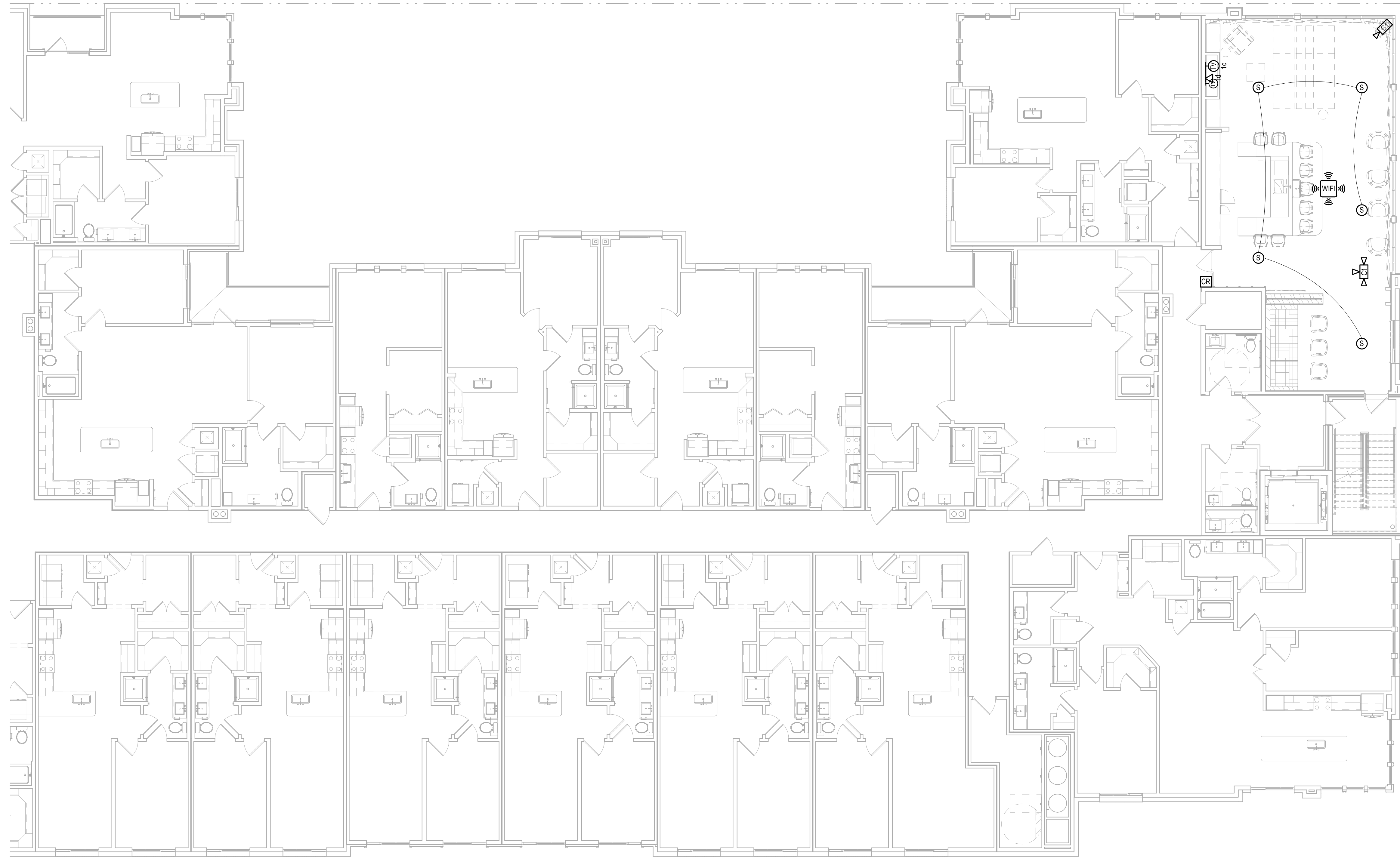
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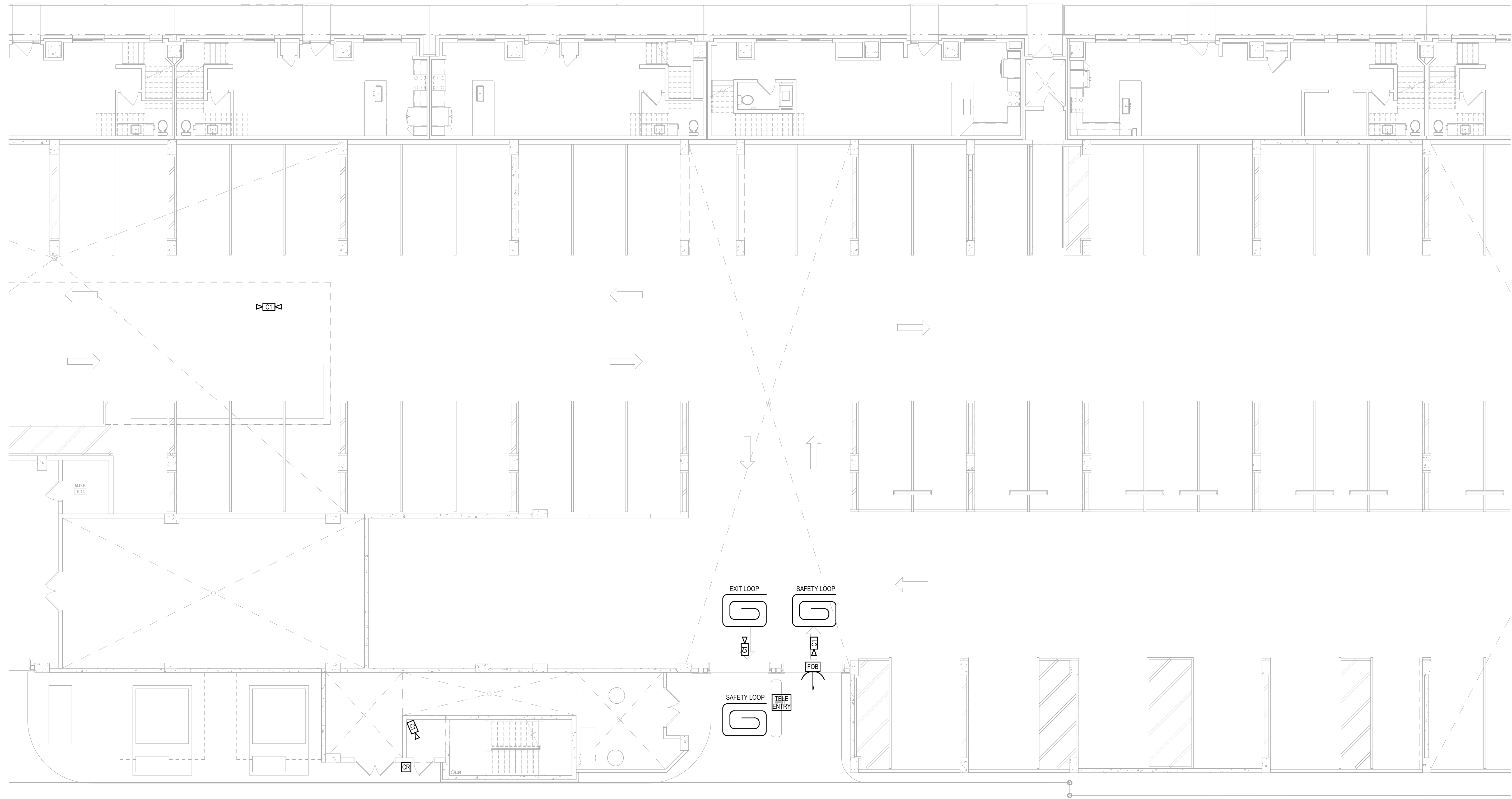
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1 ENLARGED TELECOM PLAN - BUILDING #1A - LEVEL 7  
Scale: 1/8" = 1'-0"



1 ENLARGED TELECOM PLAN - BUILDING #1B - LEVEL 1  
Scale: 1/8" = 1'-0"

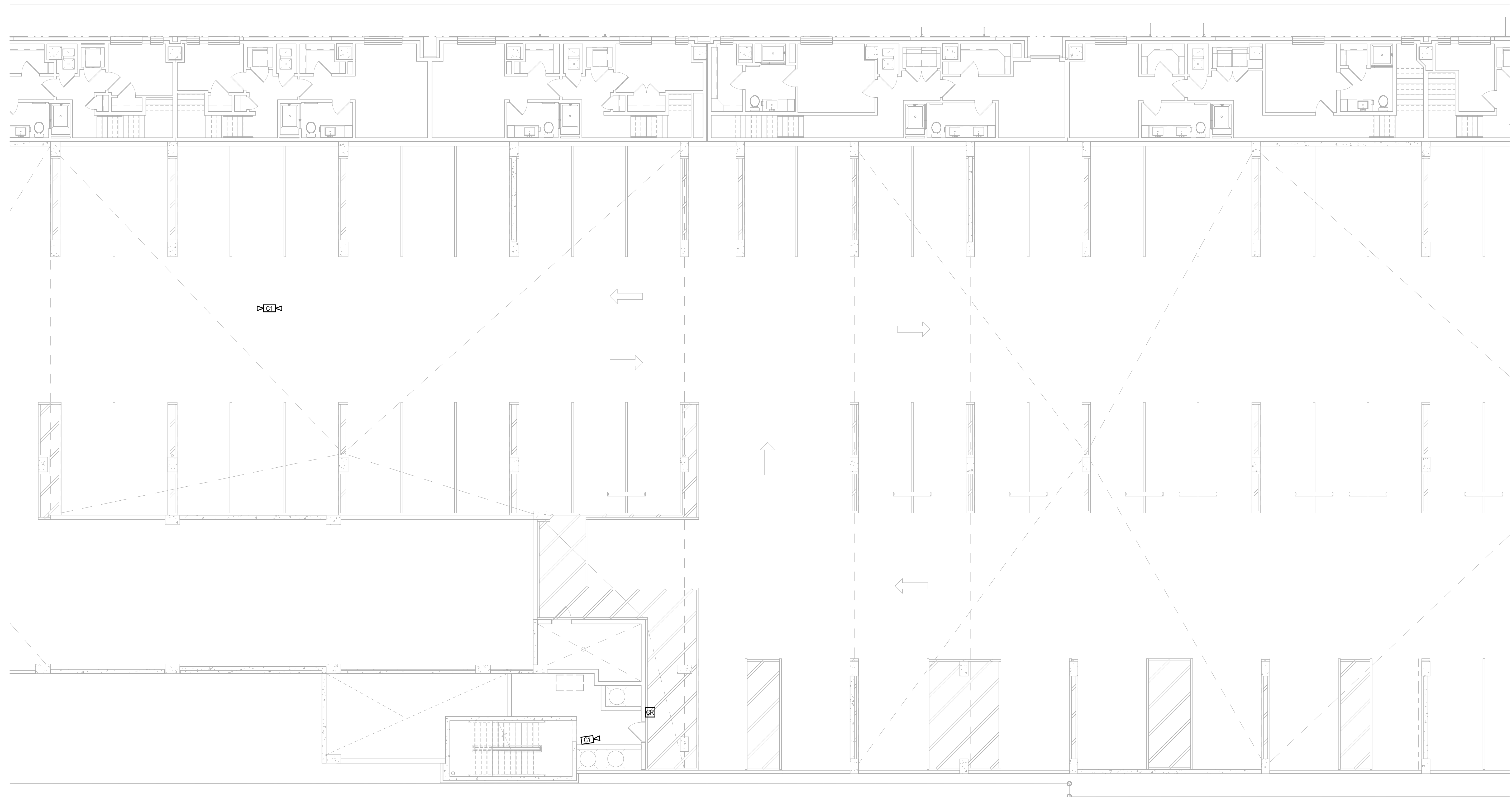
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1 ENLARGED TELECOM PLAN - BUILDING #1B - LEVEL 2  
Scale: 1/8" = 1'-0"

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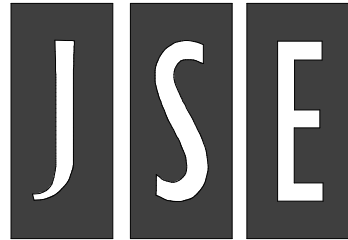
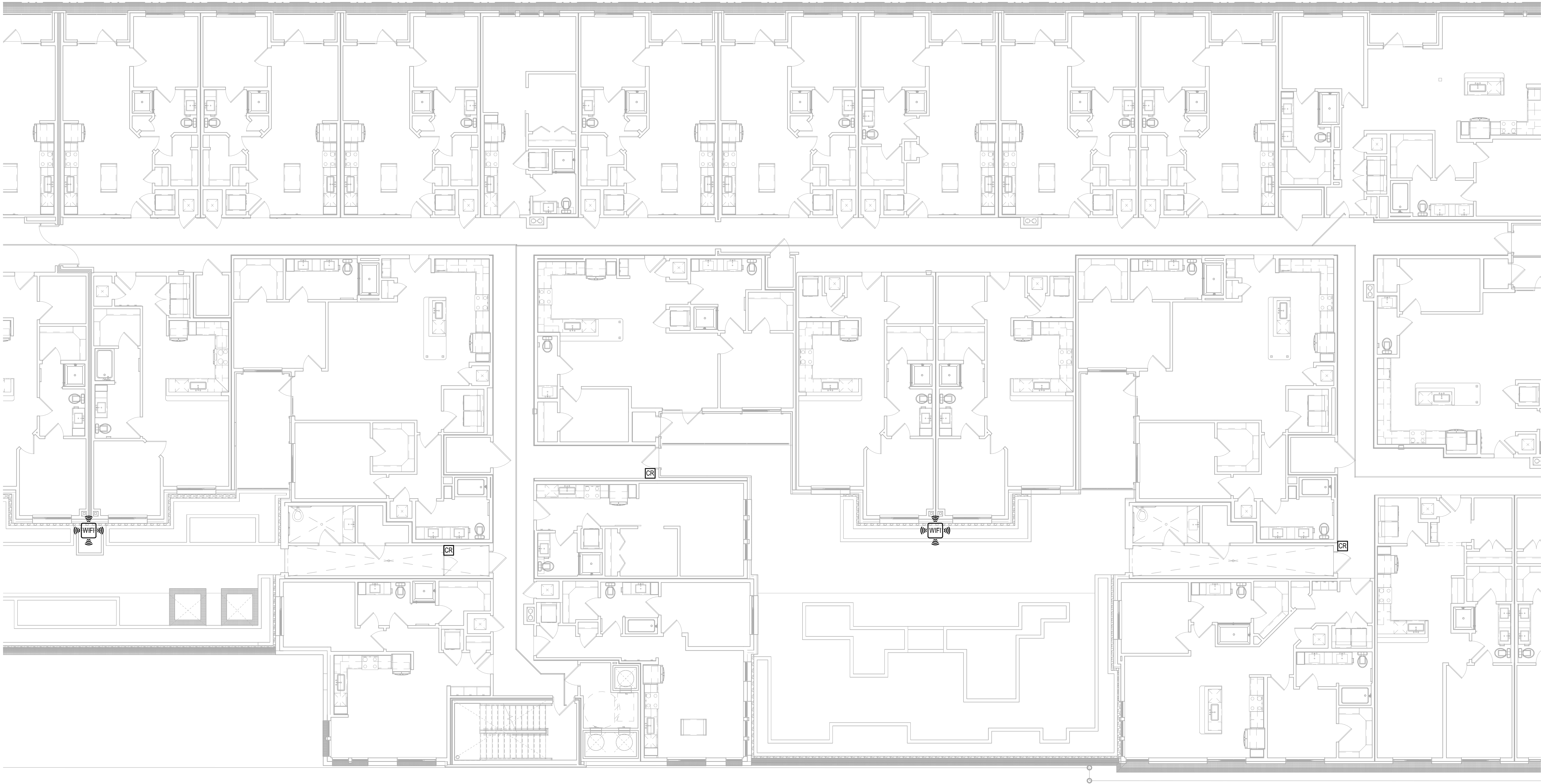
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ENLARGED TELECOM PLAN - BUILDING #1B - LEVEL 3

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



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BLDG. #1B - LVL. 3  
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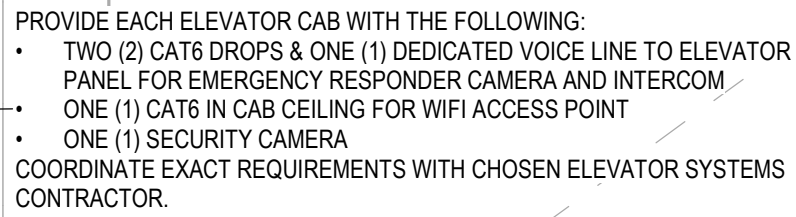
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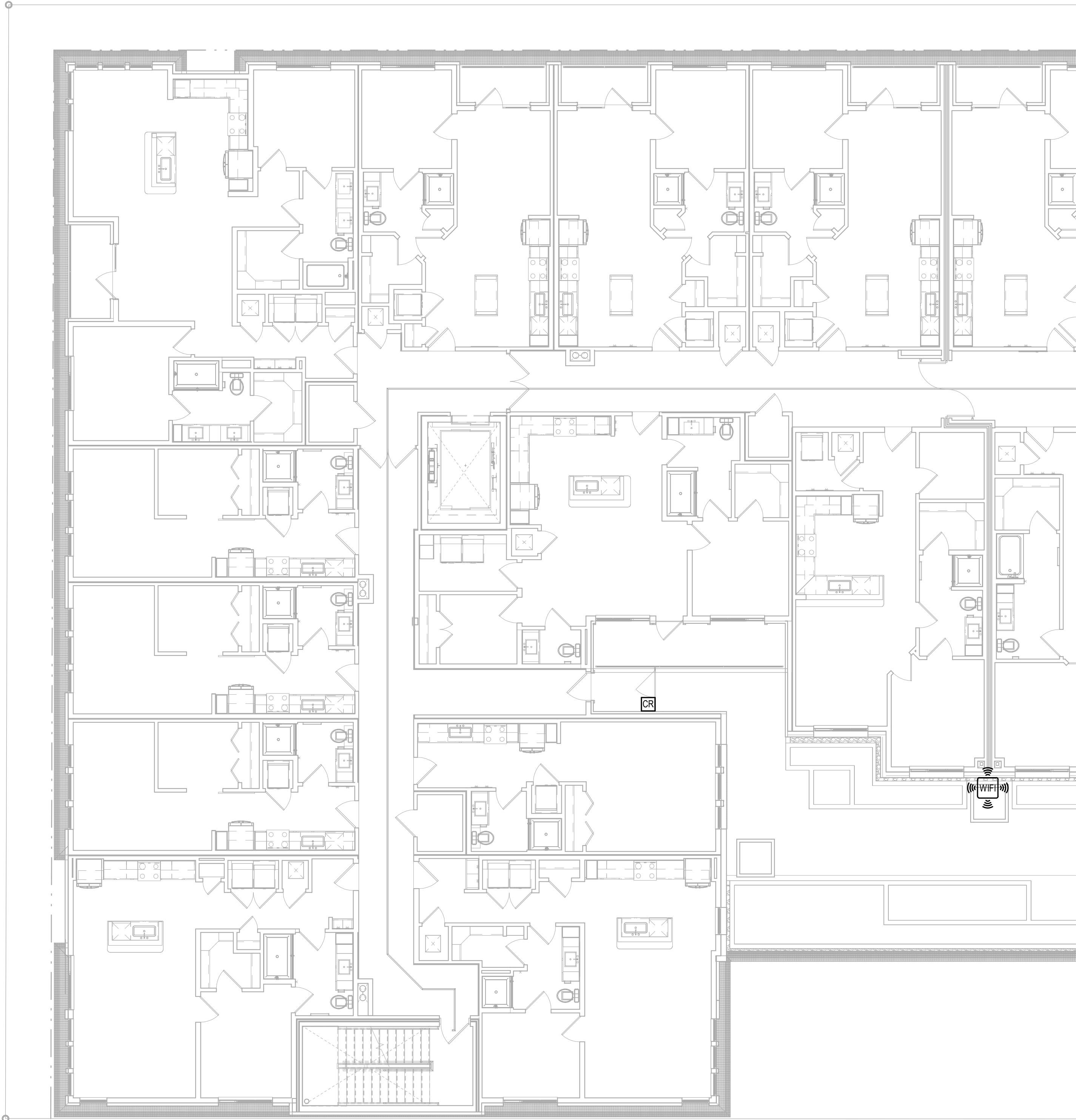
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BLDG. #2 - LVL. 1**

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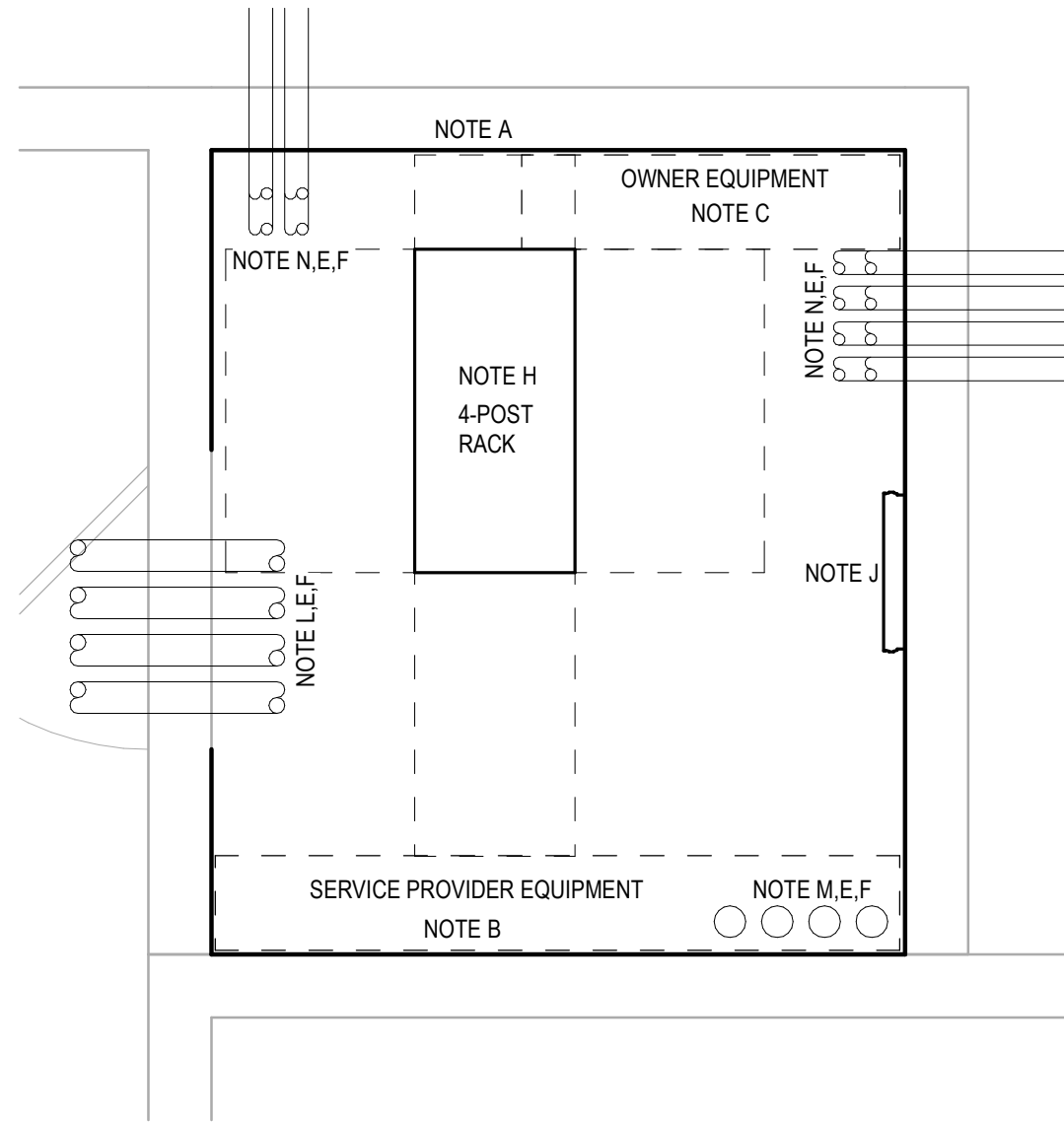


1 ENLARGED TELECOM PLAN - BUILDING #2 - LEVEL 3  
Scale: 1/8" = 1'-0"

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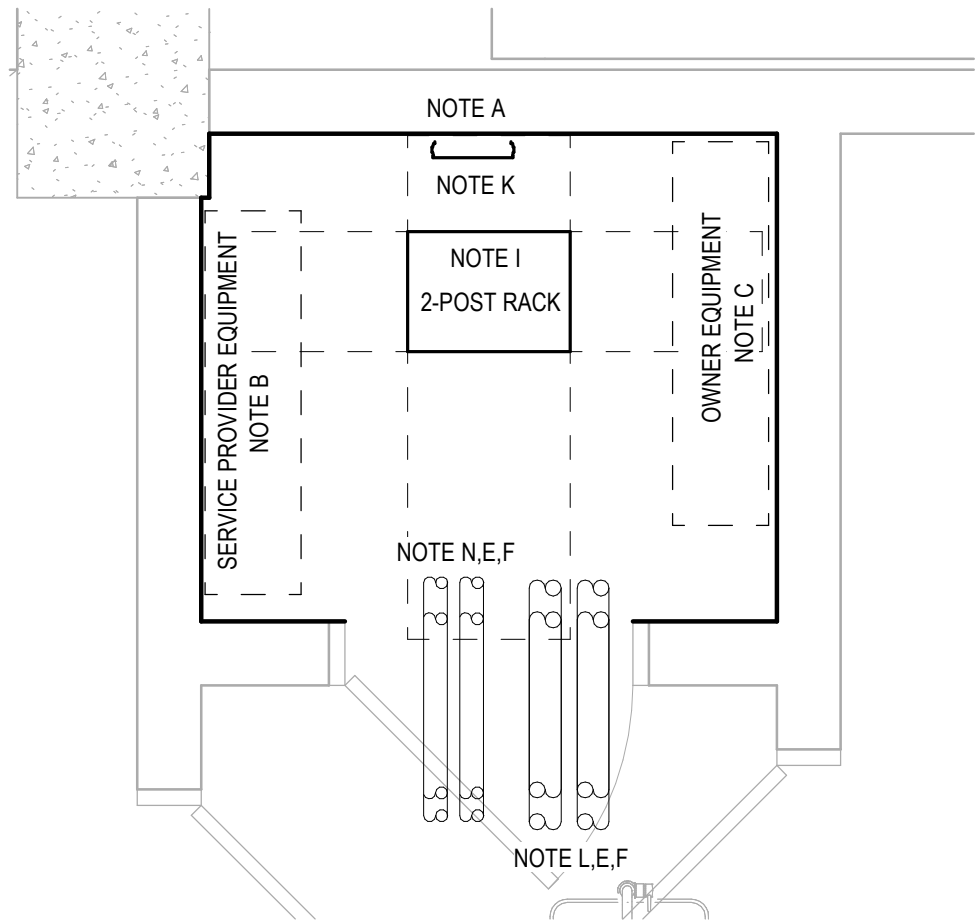
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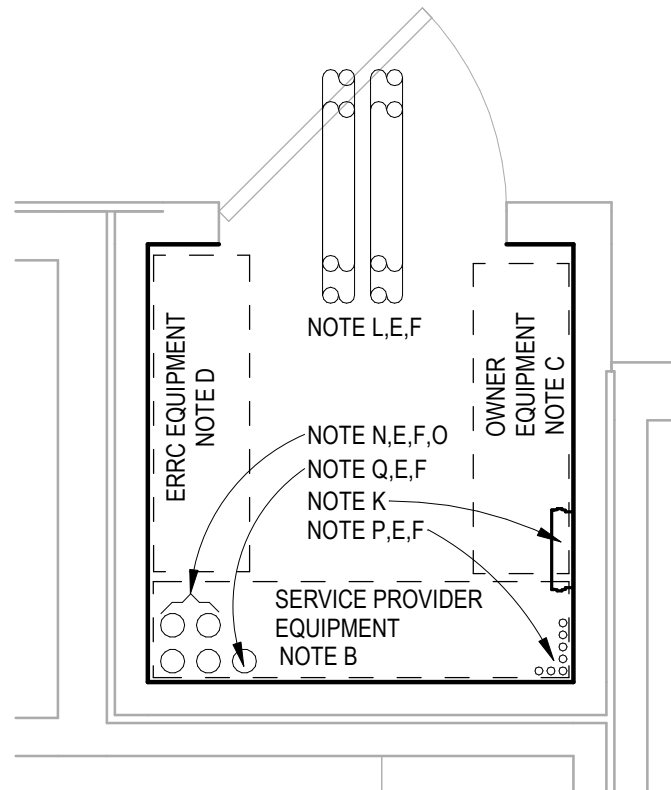
**MDF ROOM - LVL 1**

Scale: 1/2" = 1'-0"



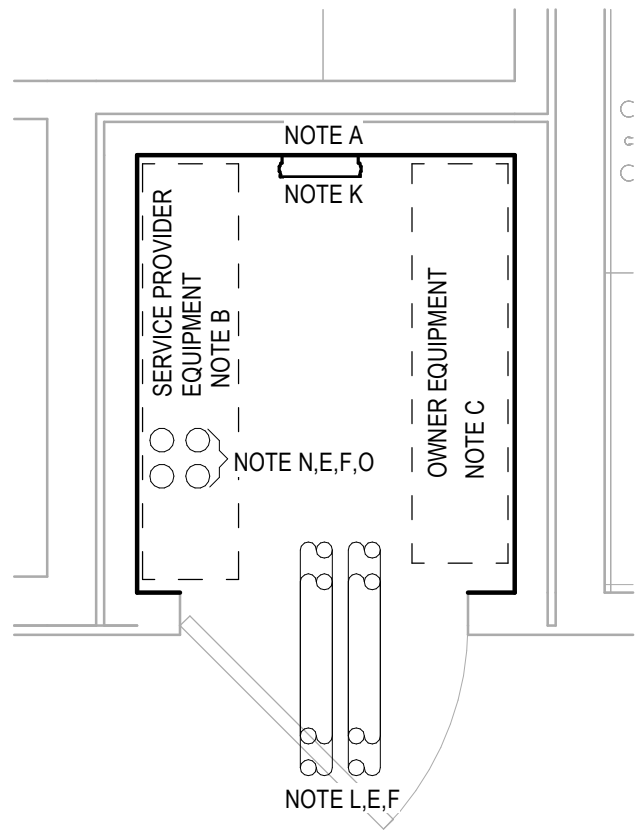
**AV ROOM - LVL 2**

Scale: 1/2" = 1'-0"



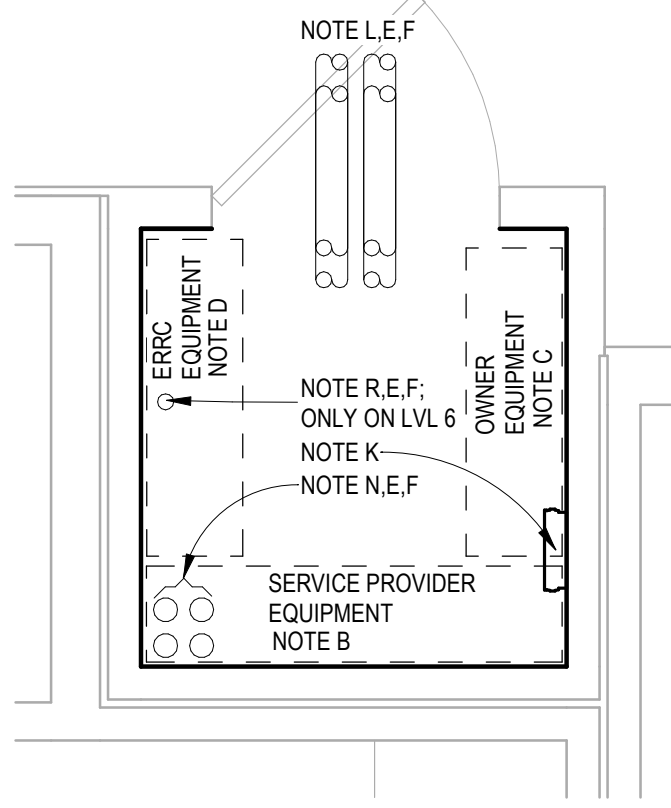
**IDF ROOM A - LVL 3**

Scale: 1/2" = 1'-0"



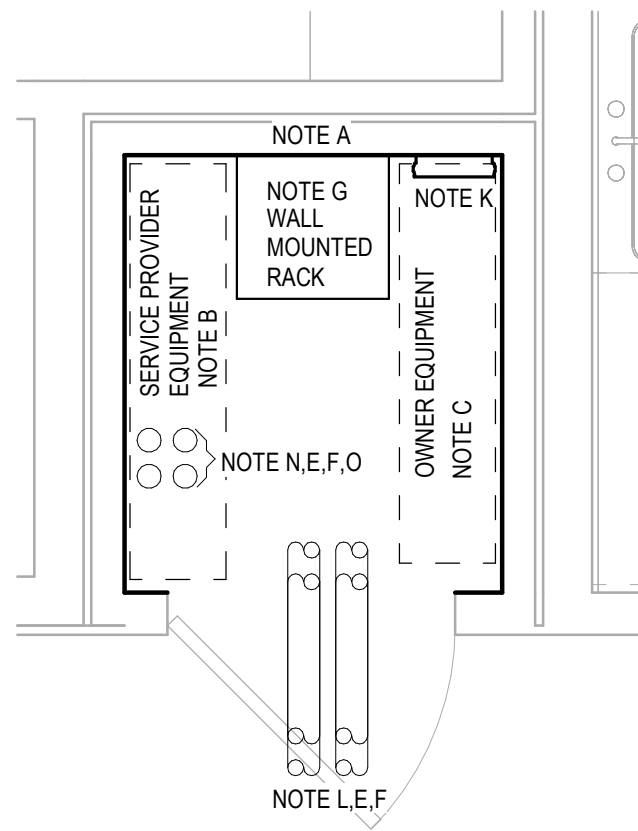
**IDF ROOM B - LVL 3-6 TYP.**

Scale: 1/2" = 1'-0"



**IDF ROOM A - LVL 4-6 TYP.**

Scale: 1/2" = 1'-0"



**IDF ROOM B - LVL 7**

Scale: 1/2" = 1'-0"

### GENERAL NOTES:

- G-1 MINIMUM CEILING HEIGHT: SHALL BE AT LEAST 8 FT ABOVE FINISHED FLOOR.
- G-2 DOOR: FULLY OPENING LOCKABLE DOOR AT LEAST 3 FT WIDE AND 6.7 FT TALL. DOOR HINGED TO SWING OUT OF ROOM IS PREFERRED. AVOID USE OF SILLS TO EASE EQUIPMENT INSTALLATION AND REMOVAL. DOOR SHOULD BE REMOVABLE.
- G-3 POWER: EACH PRIME EQUIPMENT POWER OUTLET SHALL BE SUPPLIED BY A DEDICATED 110VAC, 20A CIRCUIT USING A QUAD NEMA 5-20R RECEPTACLE. OTHER OUTLETS SHALL BE QUAD NEMA 5-15R RECEPTACLES. OUTLETS LOCATED 16 INCHES AFF. TYPICAL.
- G-4 LIGHTING: PROVIDE SWITCHED LIGHTING TO ILLUMINATE EQUIPMENT AND WORK AREA.
- G-5 FLOORING: AVOID USE OF CARPET OR OTHER MATERIALS THAT COULD CAUSE BUILDUP OF STATIC ELECTRICITY.
- G-6 WALLS: INSTALL 3/4 INCH PLYWOOD BACKBOARDS ON ALL WALLS. BOTTOM EDGE SHALL BE APPROXIMATELY 36 INCHES ABOVE FINISHED FLOOR WITH TOP EDGE APPROXIMATELY 84 INCHES ABOVE FINISHED FLOOR. SEAL PLYWOOD WITH FIREPROOF PAINT (WHITE).
- G-7 ENVIRONMENTAL CONTROL: ENVIRONMENTAL CONTROLS SHALL BE SUFFICIENT TO MAINTAIN ROOM TEMPERATURE IN THE RANGE OF 64°F TO 75°F. INSTALL, AS A MINIMUM, A DEDICATED 1.5 TON CAPACITY COOLING UNIT. HVAC POWER SOURCE SHALL BE SEPARATE FROM OUTLETS SHOWN ON THIS SHEET.

### TELECOM ROOM NOTES:

- A. PROVIDE 3/4" 4x8 FIRE RESISTANT PLYWOOD, ORIENTED VERTICALLY. AS SHOWN, PLYWOOD SHALL BE PAINTED WITH TWO COATS OF FIRE RESISTANT PRIMER AND TWO COATS OF FIRE RESISTANT PAINT. TYPICAL ALL ROOMS.
- B. DEDICATED WALL SPACE FOR SERVICE PROVIDER EQUIPMENT. COORDINATE WITH THE SERVICE PROVIDER FOR EXACT REQUIREMENTS.
- C. DEDICATED WALL SPACE FOR ADDITIONAL NON-SERVICE PROVIDER EQUIPMENT, INCLUDING BUT NOT LIMITED TO OWNER FURNISHED EQUIPMENT & ACCESS CONTROL PANELS. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS.
- D. DEDICATED WALL SPACE FOR EMERGENCY RESPONDER RADIO RESPONDER (ERRC) EQUIPMENT. COORDINATE EXACT SYSTEM REQUIREMENT WITH ERRC VENDOR.
- E. COORDINATE LOCATION OF CONDUITS WITH THE STRUCTURAL & ARCHITECTURAL DRAWINGS. RELOCATE IF NECESSARY. PROVIDE DRAWING WITH FINAL LAYOUT FOR APPROVAL AND FINAL RECORD.
- F. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS TO VERIFY THAT CORE DRILLING DOES NOT COMPROMISE STRUCTURAL INTEGRITY.
- G. 71.75"H x 19"W x 18"D WALL MOUNTED DATA RACK. RACK SHALL BE PROVIDED WITH TWO(2) 20AMP DEDICATED CIRCUITS, BY ELECTRICAL.
- H. 84"H x 21"W x 41"D FREE STANDING FOUR-POST DATA RACK. RACK SHALL BE PROVIDED WITH TWO (2) 20AMP DEDICATED CIRCUITS, BY ELECTRICAL.
- I. 84"H x 21"W x 15"D FREE STANDING TWO-POST DATA RACK. RACK SHALL BE PROVIDED WITH TWO(2) 20AMP DEDICATED CIRCUITS, BY ELECTRICAL.
- J. GROUNDING: INSTALL TELECOMMUNICATION MAIN GROUNDING BUSBAR (CHATSWORTH MODEL 40153 OR EQUIVALENT) IN LOCATION DEPICTED IN DRAWING.
- K. GROUNDING: INSTALL TELECOMMUNICATION GROUNDING BUSBAR(CHATSWORTH MODEL 13622-10 OR EQUIVALENT) IN LOCATION DEPICTED IN DRAWING.
- L. PROVIDE FOUR (4)-4" CONDUIT SLEEVES OVERHEAD INTO OPEN CEILING SPACE FOR HORIZONTAL CABLING HOME RUNS.
- M. FOUR (4)-4" CONDUITS, ROUTED UNDERGROUND, TO PROPERTY LINE. COORDINATE EXACT LOCATION WITH SERVICE PROVIDER(S) & CIVIL ENGINEER. SEE OVERALL FLOOR PLAN ON SHEET T3.00 FOR EXACT ROUTING.
- N. PROVIDE FOUR (4)-3" CONDUITS, FROM LEVEL 1 MDF ROOM TO EACH IDF ROOM STACK & AV ROOM. SEE OVERALL FLOOR PLANS & RISER DIAGRAM FOR EXACT NUMBER,ROUTING AND LOCATION OF CONDUITS.
- O. PROVIDE FOUR (4)-3" SLEEVES BETWEEN STACKED IDF ROOM.
- P. PROVIDE ONE (1)-1" CONDUIT, FROM EACH TOWNHOME STYLE UNIT TO THE NEAREST TELECOM ROOM FOR SMC PANEL HOME RUN. SEE SHEET T3.00 FOR EXACT FOR EXACT NUMBER, ROUTING, AND LOCATION OF CONDUITS.
- Q. PROVIDE ONE (1)-3" CONDUIT, FROM LEVEL 2 TOWNHOME STYLE UNIT CORRIDOR TO THE NEAREST TELECOM ROOM FOR SMC PANEL HOME RUN. SEE SHEET T3.00 FOR EXACT FOR EXACT NUMBER, ROUTING, AND LOCATION OF CONDUITS.
- R. PROVIDE ONE (1)-2" CONDUIT FROM LEVEL 6 IDF ROOM A , STUBBING PASS LEVEL 7 MECHANICAL ROOM TO ROOF FOR ERRC BACKBONE CABLING.

**GRANT STREET APARTMENTS**  
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SHEET TITLE:  
**ENLARGED  
TELECOM ROOM  
PLAN**

DRAWING NO.  
**T3.30**

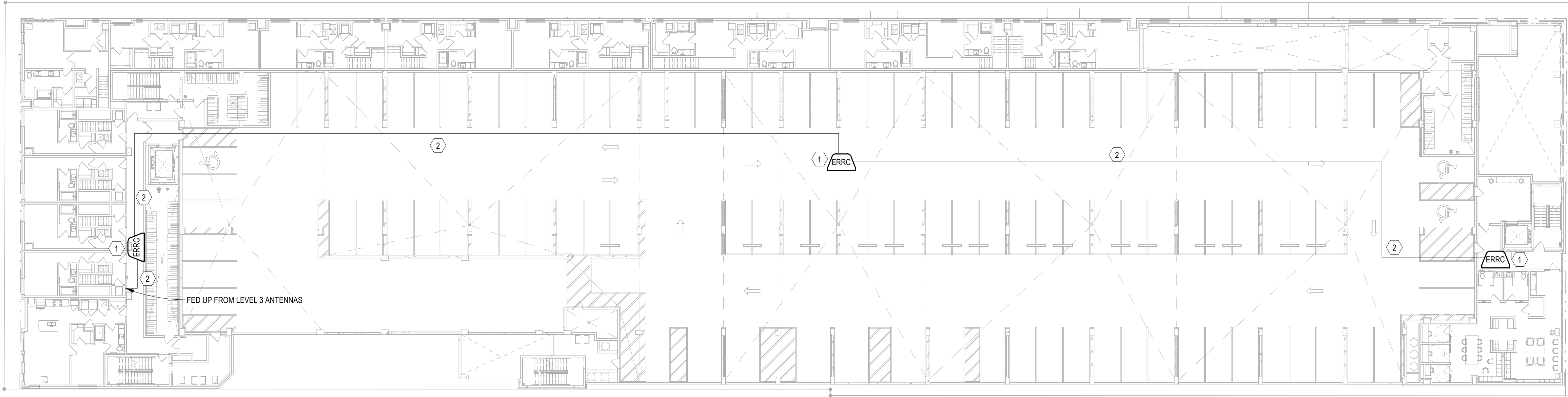
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Project Number: 23080076

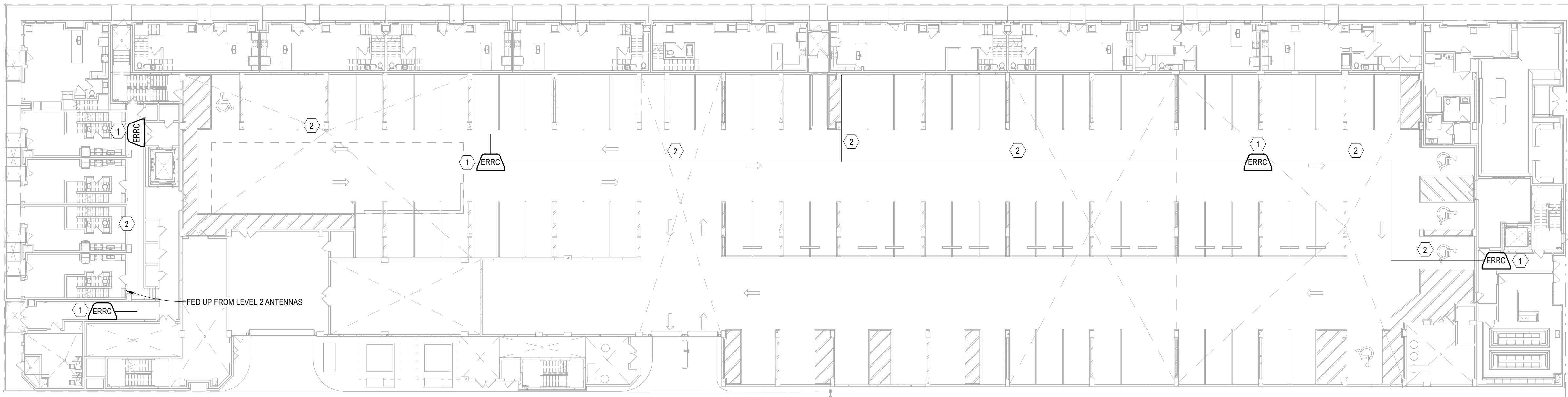
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2 OVERALL ERRC PLAN - LEVEL 2  
Scale: 1" = 20'-0"



1 OVERALL ERRC PLAN - LEVEL 1  
Scale: 1" = 20'-0"

#### KEY NOTES: ERRC SYSTEM

- 1 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SYSTEM REPEATER ANTENNA; SEE SHEETS T0.10 FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- 2 ONE (1)-1/2" HELIAX COAXIAL CABLE RUN OVERHEAD, DAISY CHAINED BETWEEN ANTENNAS. HOME RUN TO CLOSEST BDA/ REMOTE BDA ROOM. COORDINATE ROUTING WITH ARCHITECT TO AVOID OBSTRUCTIONS.
- 3 ONE (1)-2" CONDUIT ERRC SYSTEM BACKBONE/ FEEDER/ RISER COAXIAL CABLING BETWEEN ROOFTOP DONOR ANTENNA AND BDA ROOM.
- 4 COAXIAL SPLITTER, CONFIRM EXACT SPLITTER SIZES REQUIRED WITH THE ERRC SYSTEM INTEGRATOR OR INSTALLER.
- 5 RUN ONE (1) 1/2" COAXIAL CABLE FROM BI-DIRECTIONAL AMPLIFIER TO ERRC SYSTEM DONOR ANTENNA, VIA ONE (1)-2" CONDUIT, AIMED TOWARDS THE JURISDICTION'S PUBLIC SAFETY RADIO REPEATER SITE.
- 6 GROUNDED LIGHTING ARRESTOR LOCATED OUTSIDE BEFORE CABLE BUILDING ENTRY.
- 7 ERRC SYSTEM DONOR ANTENNA. COORDINATE EXACT LOCATION & MOUNTING WITH THE ARCHITECT, ERRC/DAS INTEGRATOR, & STRUCTURAL ENGINEER.

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SHEET TITLE:  
OVERALL BUILDING  
ERRC PLAN - LEVEL  
1 & 2

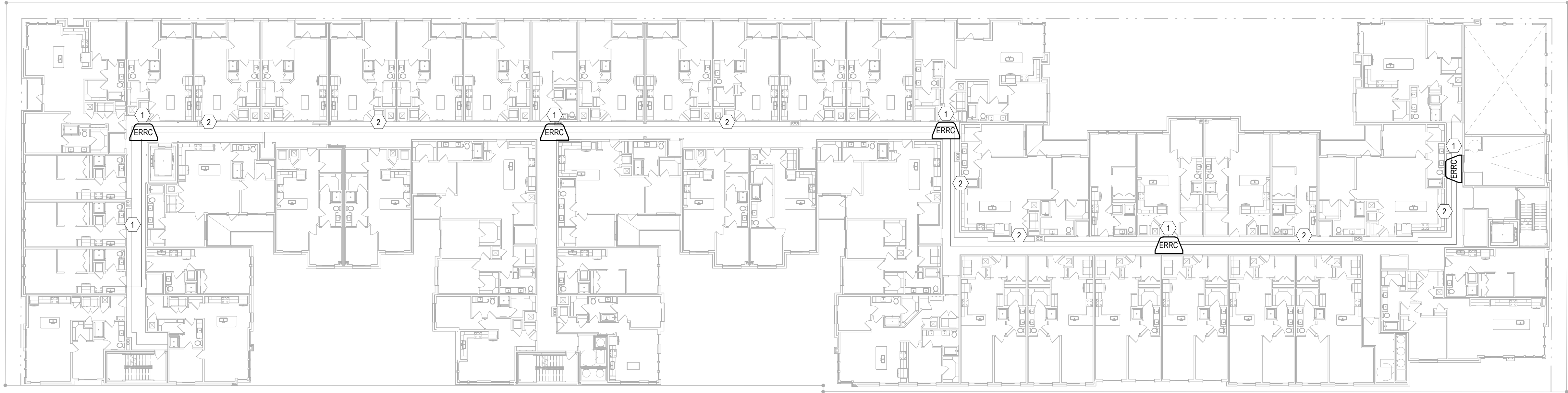
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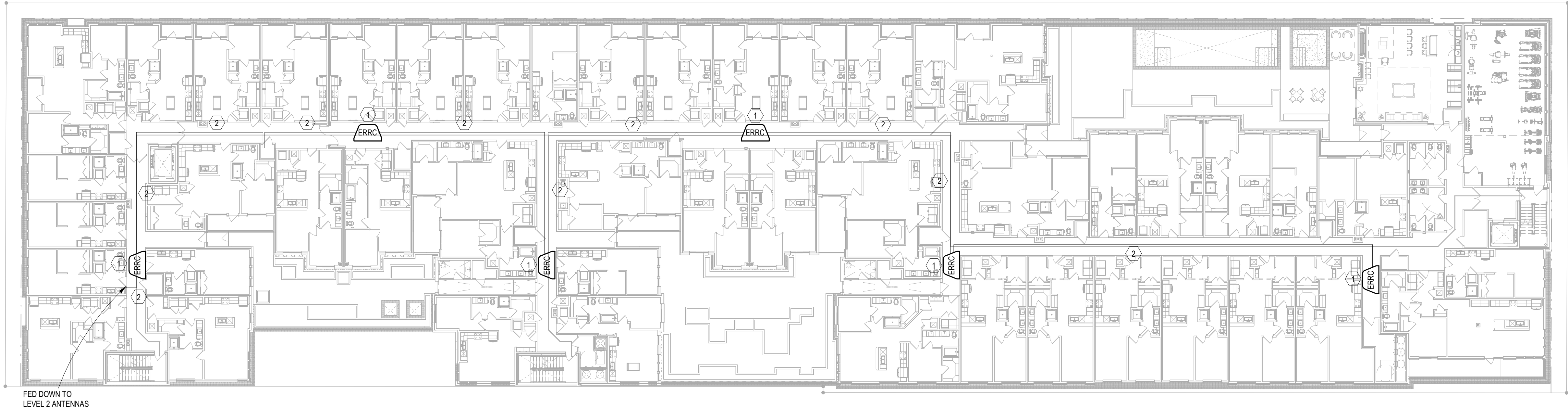
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2 OVERALL ERRC PLAN - LEVEL 4  
Scale: 1" = 20'-0"



1 OVERALL ERRC PLAN - LEVEL 3  
Scale: 1" = 20'-0"

KEY NOTES: ERRC SYSTEM

- 1 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SYSTEM REPEATER ANTENNA; SEE SHEETS T0.10 FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- 2 ONE (1)-1/2" HELIAX COAXIAL CABLE RUN OVERHEAD, DAISY CHAINED BETWEEN ANTENNAS. HOME RUN TO CLOSEST BDA/ REMOTE BDA ROOM. COORDINATE ROUTING WITH ARCHITECT TO AVOID OBSTRUCTIONS.
- 3 ONE (1)-2" CONDUIT ERRC SYSTEM BACKBONE/ FEEDER/ RISER COAXIAL CABLING BETWEEN ROOFTOP DONOR ANTENNA AND BDA ROOM.
- 4 COAXIAL SPLITTER, CONFIRM EXACT SPLITTER SIZES REQUIRED WITH THE ERRC SYSTEM INTEGRATOR OR INSTALLER.
- 5 RUN ONE (1) 1/2" COAXIAL CABLE FROM BI-DIRECTIONAL AMPLIFIER TO ERRC SYSTEM DONOR ANTENNA, VIA ONE (1)-2" CONDUIT, AIMED TOWARDS THE JURISDICTION'S PUBLIC SAFETY RADIO REPEATER SITE.
- 6 GROUNDED LIGHTING ARRESTOR LOCATED OUTSIDE BEFORE CABLE BUILDING ENTRY.
- 7 ERRC SYSTEM DONOR ANTENNA. COORDINATE EXACT LOCATION & MOUNTING WITH THE ARCHITECT,ERRC/DAS INTEGRATOR, & STRUCTURAL ENGINEER.

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SHEET TITLE:  
OVERALL BUILDING  
ERRC PLAN - LEVEL  
3 & 4

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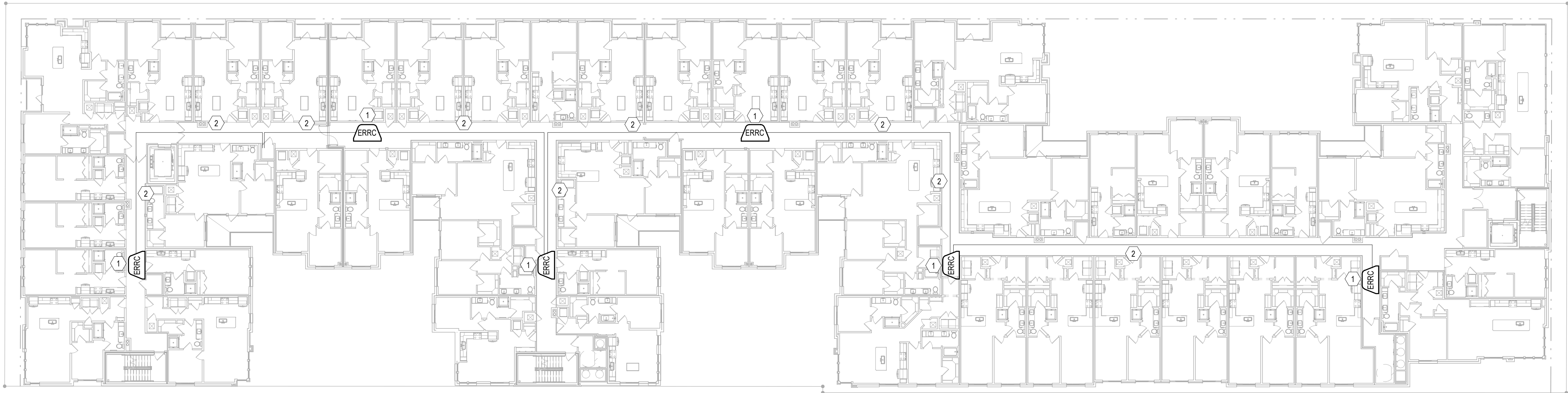
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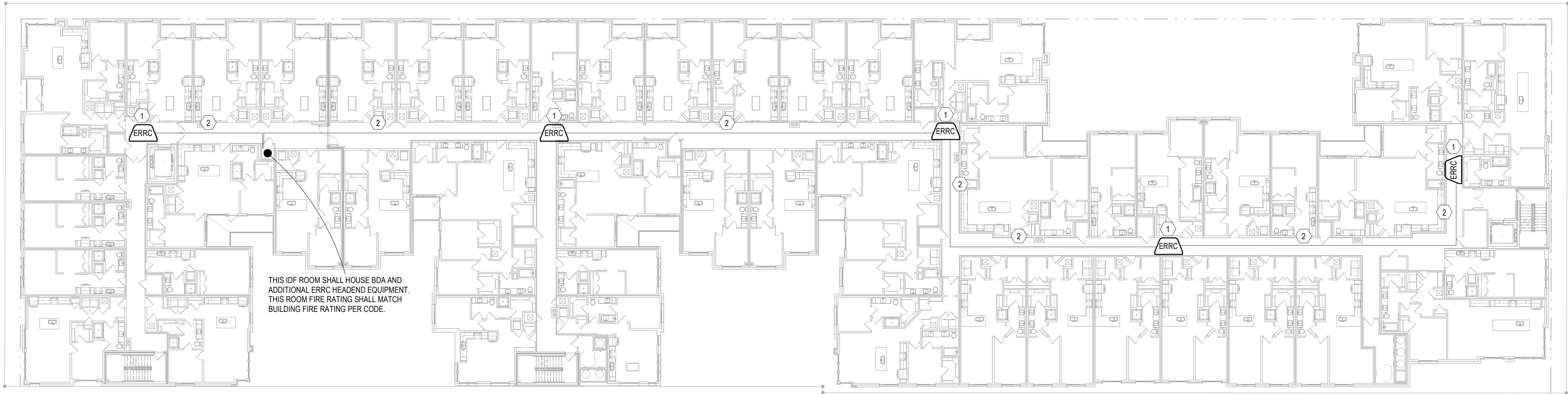


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1 OVERALL ERRC PLAN - LEVEL 5  
Scale: 1" = 20'-0"



2 OVERALL ERRC PLAN - LEVEL 6  
Scale: 1" = 20'-0"



KEY NOTES: ERRC SYSTEM

- 1 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SYSTEM REPEATER ANTENNA; SEE SHEETS T0.10 FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- 2 ONE (1)-1/2" HELIAX COAXIAL CABLE RUN OVERHEAD, DAISY CHAINED BETWEEN ANTENNAS. HOME RUN TO CLOSEST BDA/ REMOTE BDA ROOM. COORDINATE ROUTING WITH ARCHITECT TO AVOID OBSTRUCTIONS.
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- 5 RUN ONE (1) 1/2" COAXIAL CABLE FROM BI-DIRECTIONAL AMPLIFIER TO ERRC SYSTEM DONOR ANTENNA, VIA ONE (1)-2" CONDUIT, AIMED TOWARDS THE JURISDICTION'S PUBLIC SAFETY RADIO REPEATER SITE.
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OVERALL BUILDING  
ERRC PLAN - LEVEL  
5 & 6

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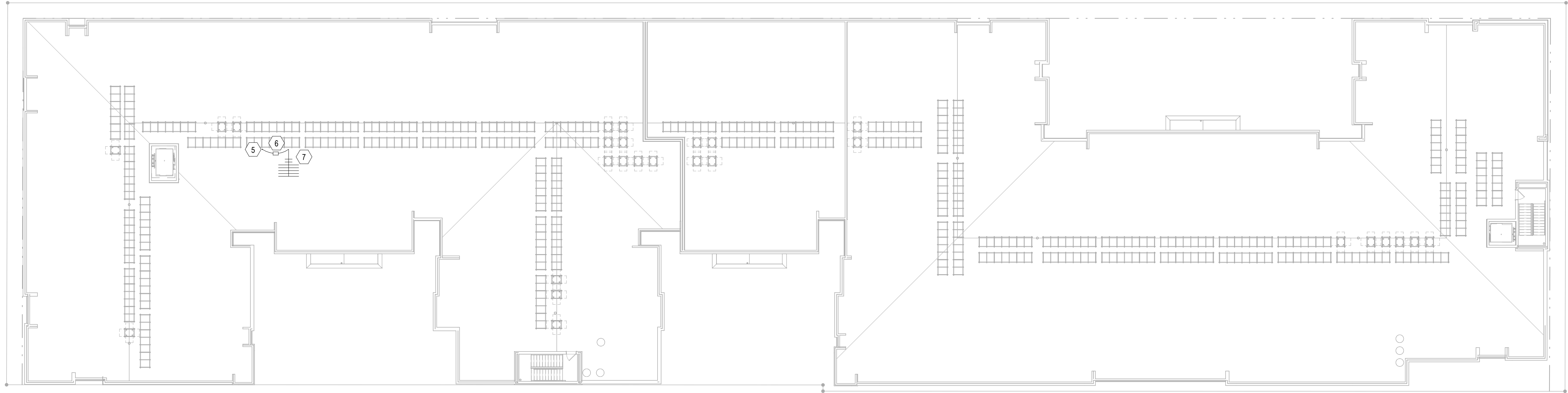
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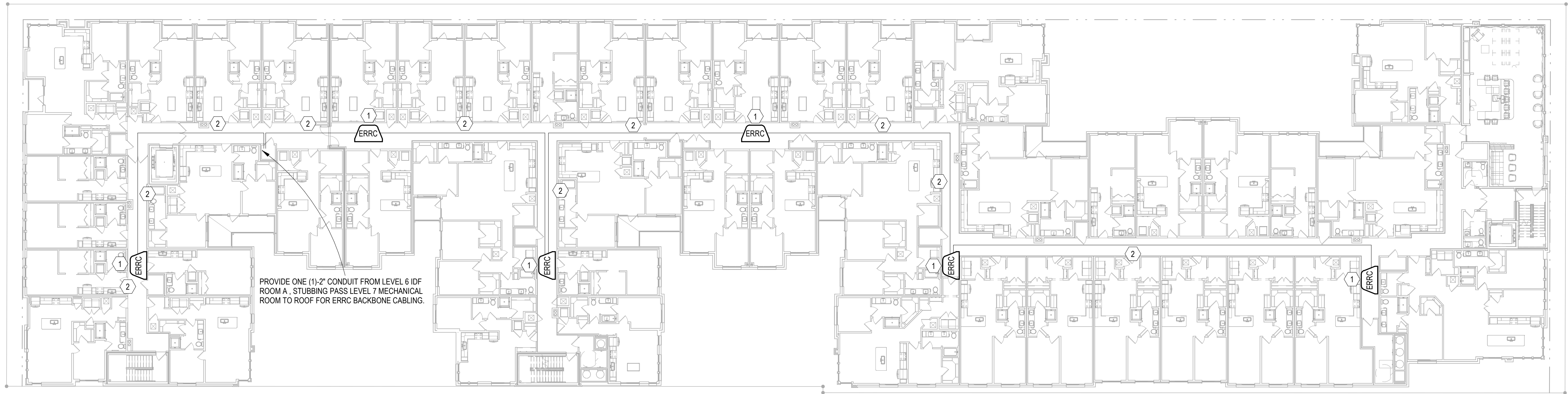
## 2 OVERALL ERRC PLAN - ROOF

Scale: 1" = 20'-0"



## 1 OVERALL ERRC PLAN - LEVEL 7

Scale: 1" = 20'-0"



### KEY NOTES: ERRC SYSTEM

- 1 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SYSTEM REPEATER ANTENNA; SEE SHEETS T0.10 FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- 2 ONE (1)-1/2\"/>

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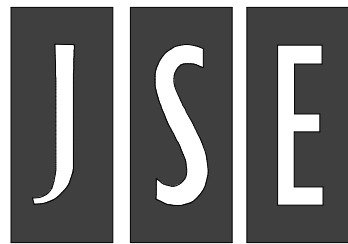
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**OVERALL BUILDING  
ERRC PLAN - LEVEL  
7 & ROOF**

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