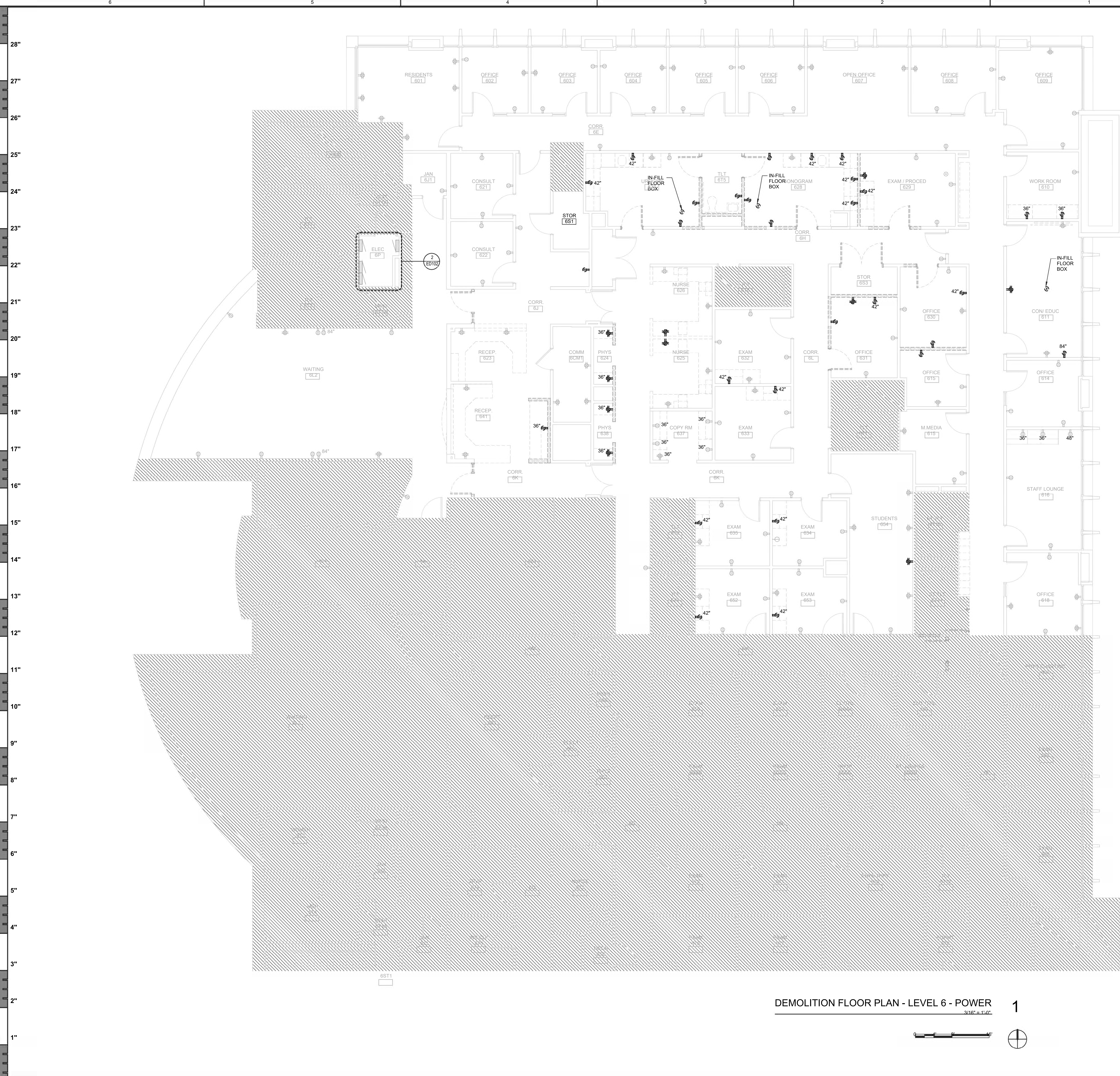
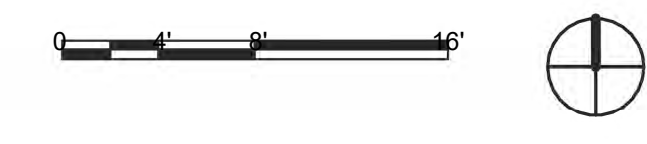


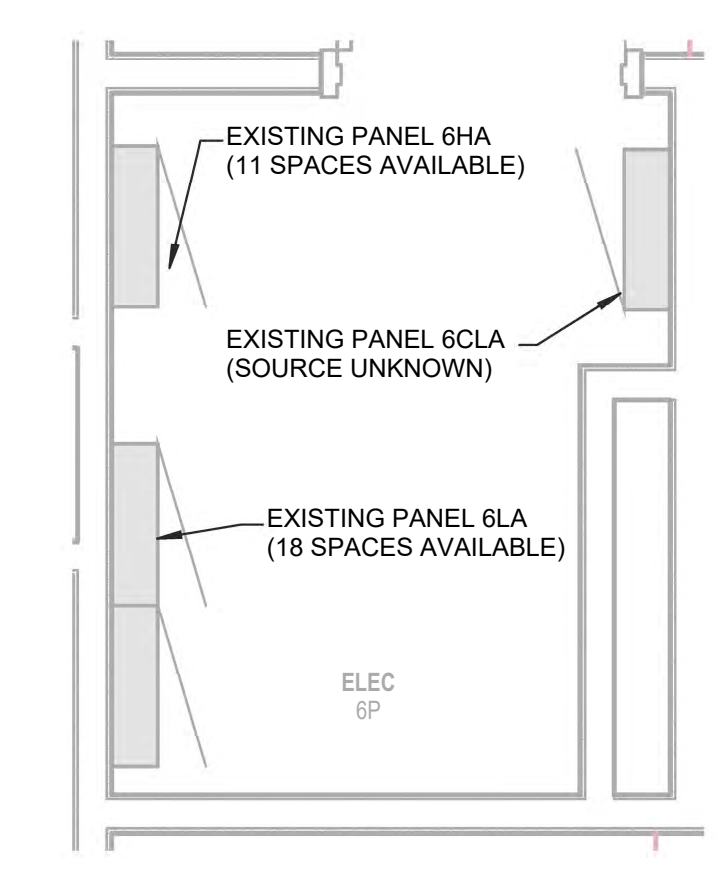
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DEMOLITION FLOOR PLAN - LEVEL 6 - POWER 1  
3/16" = 1'-0"



- GENERAL NOTES**
1. REMOVE ALL WIRING DEVICES (SHOWN BOLD) AND BRANCH CIRCUIT CONDUIT/WIRING WITHIN WALLS BEING REMOVED (SHOWN DASHED) IN THE RENOVATION AREA. REFER TO ARCHITECTURAL FOR EXACT LIMITS OF WORK.
  2. ANY WIRING DEVICE AND ASSOCIATED COVER PLATE IN WALLS THAT ARE WITHIN THE AREA OF RENOVATION (SHOWN SOLID) AND ARE TO REMAIN (SHOWN HALF-TONED), SHALL BE REPLACED WITH A NEW WIRING DEVICE AND COVER PLATE TO MATCH NEW INSTALLATIONS.
  3. REMOVE ALL ABANDONED OR UNUSED CONDUIT/WIRING ABOVE CEILING AREA.
  4. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK. ALL DEVICES MAY NOT BE SHOWN.
  5. REFER TO NEW POWER SHEETS FOR ADDITIONAL INFORMATION.
  6. EXISTING DEVICE MOUNTING HEIGHTS ARE TO BE ASSUMED AT 18" UNLESS NOTED OTHERWISE.



LEVEL 6 - ELECTRICAL ROOM 2  
1/2" = 1'-0"



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DEMOLITION FLOOR PLAN - LEVEL 6 - POWER

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GENERAL NOTES

1. REMOVE LIGHTING FIXTURES, ASSOCIATED LIGHTING CONTROLS, AND BRANCH CIRCUIT CONDUIT/WIRING IN THE RENOVATION AREA (THAT ARE SHOWN BOLD AND DASHED). ITEMS SHOWN HALF-TONED ARE TO REMAIN IN SERVICE. REFER TO ARCHITECTURAL FOR EXACT LIMITS OF WORK.
2. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK. ALL FIXTURES/CONTROLS ARE NOT NECESSARILY SHOWN.
3. RETURN ANY LED RETROFIT LAMPS TO OWNER.
4. REFER TO NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.



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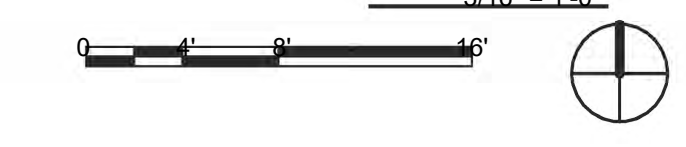
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Project No: 08460004  
 Date: 08/13/2024

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**ED201**  
 DEMOLITION  
 REFLECTING CEILING  
 PLAN - LEVEL 6 -  
 LIGHTING  
 TreanorHL 0888\_2401\_0

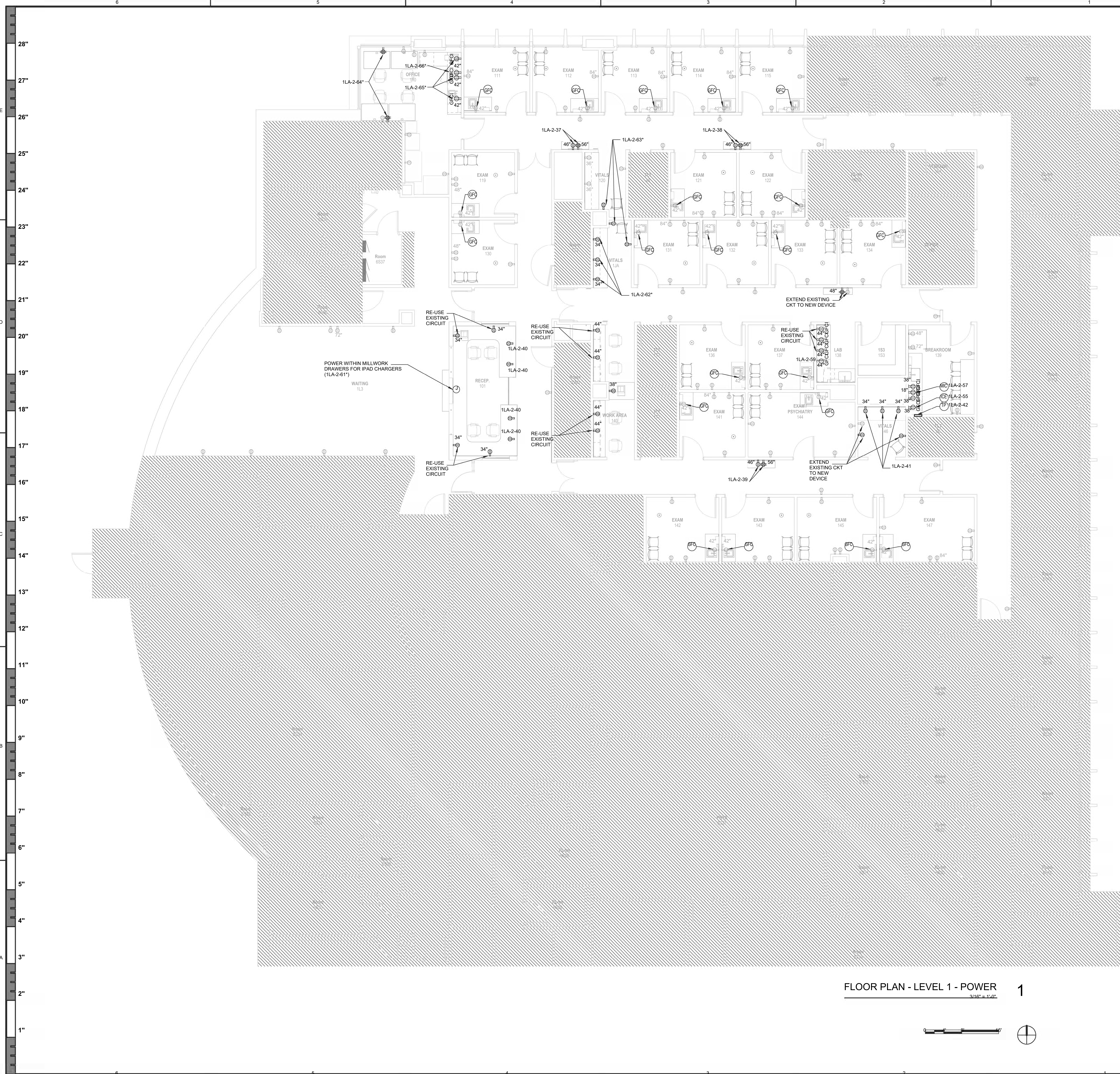
DEMOLITION REFLECTED CEILING PLAN - LEVEL 6 -  
 LIGHTING  
 3/16" = 1'-0" 1



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**GENERAL NOTES**

- REFER TO DATA, SECURITY, AUDIO/VISUAL, MECHANICAL, PLUMBING, FIRE, AND ARCHITECTURAL SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK.
- ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS. NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
- VERIFY ALL POWER AND J-BOX LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- COORDINATE ALL FINAL FLOOR CORE LOCATIONS WITH ARCHITECT AND STRUCTURAL PRIOR TO ROUGH-IN. ACCOUNT FOR ACCESSING FLOOR CORE LOCATIONS FROM BELOW. CONTRACTOR SHALL SURVEY SITE TO ADEQUATE BID INSTALLATION OF THESE ITEMS.
- COORDINATE WITH TELECOM & AV DRAWINGS AND DETAILS FOR POKE THRU FLOOR BOX REQUIREMENTS. INTENT IS TO SHARE POKE THRU FLOOR BOXES WITH TELECOM AND AV IF POSSIBLE (BENEATH CONFERENCE TABLES, ETC.)
- ALL FURNITURE SHALL BE FED FROM FLOOR OR WALL. POWER POLES ARE NOT ACCEPTABLE.
- ALL RECEPTACLES IN RESTROOMS, ON COUNTERS EQUIPPED WITH SINKS, AND ANY RECEPTACLE WITHIN 6'-0" OF A SINK (AND ANY OTHER AREAS REQUIRED BY THE NEC) SHALL BE GFI.
- VERIFY FINISH OF DEVICES WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO SUBMITTING.
- PROVIDE CODE REQUIRED DISCONNECT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
- HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO CENTER OF OUTLET. DEVICES ARE AT 18" AFF IF THERE IS NO DESIGNATION.
- REPLACE WIRING DEVICES AND COVER PLATES FOR ALL EXISTING WIRING DEVICES TO REMAIN IN THE RENOVATION AREA. ALL COVER PLATES SHALL BE LABELED WITH ASSOCIATED CIRCUIT NUMBER.
- CIRCUIT NUMBERS ENDING WITH AN "\*" = INSTALL NEW 1P-20A BREAKER IN EXISTING PANEL SPACE.
- WHERE NOTED TO RE-USE EXISTING CIRCUIT, EXTEND EXISTING CIRCUIT TO NEW DEVICE LOCATIONS (MAY BE WITHIN A FEW FEET IN SOME CASES) AS INDICATED ON PLANS. INTENT IS TO PRESERVE AND RE-USE/EXTEND CIRCUITS WHEN POSSIBLE.

**120V CONTROL POWER NOTES**

PROVIDE 120V POWER CIRCUIT TO EACH ITEM OF EQUIPMENT AS REQUIRED. REFER TO MECHANICAL SCHEDULES, ETC. THESE CIRCUITS ARE NOT NECESSARILY IDENTIFIED BUT SHALL BE PROVIDED AS NECESSARY TO PROVIDE COMPLETE OPERATIONAL SYSTEM. TYPICAL EQUIPMENT INCLUDES HVAC CONTROL PANELS, PLUMBING SENSORS, FIRE DAMPERS, SMOKE DAMPERS, DUCT DETECTORS, FIRE ALARM CONTROL PANELS, VALVE ACTUATORS, LIGHTING CONTROLS, ETC. MAXIMUM OF (2) CONTROL CIRCUITS PER 120V, 20 AMP CIRCUIT. IDENTIFY CIRCUITS USED ON RECORD DRAWINGS.

**NOTES BY SYMBOL**

- COUNTER MOUNTED ICE MACHINE (120V)
- ELECTRONIC TRAP PRIMER (120V, REF MECHANICAL)
- REPLACE EXISTING WIRING DEVICE(S) WITHIN 6' OF SINK WITH GFCI TYPE (TYPICAL).
- UNDERCOUNTER MICROWAVE (120V)

FLOOR PLAN - LEVEL 1 - POWER 1  
3/16" = 1'-0"



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NO	DESCRIPTION	DATE

**E101**

FLOOR PLAN - LEVEL 1 - POWER  
TreanorHL NO. 0688.2401.0

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**GENERAL NOTES**

- REFER TO DATA, SECURITY, AUDIOVISUAL, MECHANICAL, PLUMBING, FIRE, AND ARCHITECTURAL SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK.
- ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS. NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
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- COORDINATE WITH TELECOM & AV DRAWINGS AND DETAILS FOR POKE THRU FLOOR BOX REQUIREMENTS. INTENT IS TO SHARE POKE THRU FLOOR BOXES WITH TELECOM AND AV IF POSSIBLE (BENEATH CONFERENCE TABLES, ETC.)
- ALL FURNITURE SHALL BE FED FROM FLOOR OR WALL. POWER POLES ARE NOT ACCEPTABLE.
- ALL RECEPTACLES IN RESTROOMS, ON COUNTERS EQUIPPED WITH SINKS, AND ANY RECEPTACLE WITHIN 6'-0" OF A SINK (AND ANY OTHER AREAS REQUIRED BY THE NEC) SHALL BE GFI.
- VERIFY FINISH OF DEVICES WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO SUBMITTING.
- PROVIDE CODE REQUIRED DISCONNECT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
- HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO CENTER OF OUTLET. DEVICES ARE AT 18" AFF IF THERE IS NO DESIGNATION.
- REPLACE WIRING DEVICES AND COVER PLATES FOR ALL EXISTING WIRING DEVICES TO REMAIN IN THE RENOVATION AREA. ALL COVER PLATES SHALL BE LABELED WITH ASSOCIATED CIRCUIT NUMBER.
- CIRCUIT NUMBERS ENDING WITH AN \* = INSTALL NEW 1P-20A BREAKER IN EXISTING PANEL SPACE.
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**120V CONTROL POWER NOTES**

PROVIDE 120V POWER CIRCUIT TO EACH ITEM OF EQUIPMENT AS REQUIRED. REFER TO MECHANICAL SCHEDULES, ETC. THESE CIRCUITS ARE NOT NECESSARILY IDENTIFIED BUT SHALL BE PROVIDED AS NECESSARY TO PROVIDE COMPLETE OPERATIONAL SYSTEM. TYPICAL EQUIPMENT INCLUDES HVAC CONTROL PANELS, PLUMBING SENSORS, FIRE DAMPERS, SMOKE DAMPERS, DUCT DETECTORS, FIRE ALARM CONTROL PANELS, VALVE ACTUATORS, LIGHTING CONTROLS, ETC. MAXIMUM OF (2) CONTROL CIRCUITS PER 120V, 20 AMP CIRCUIT. IDENTIFY CIRCUITS USED ON RECORD DRAWINGS.

FLOOR PLAN - LEVEL 6 - POWER 1  
3/16" = 1'-0"



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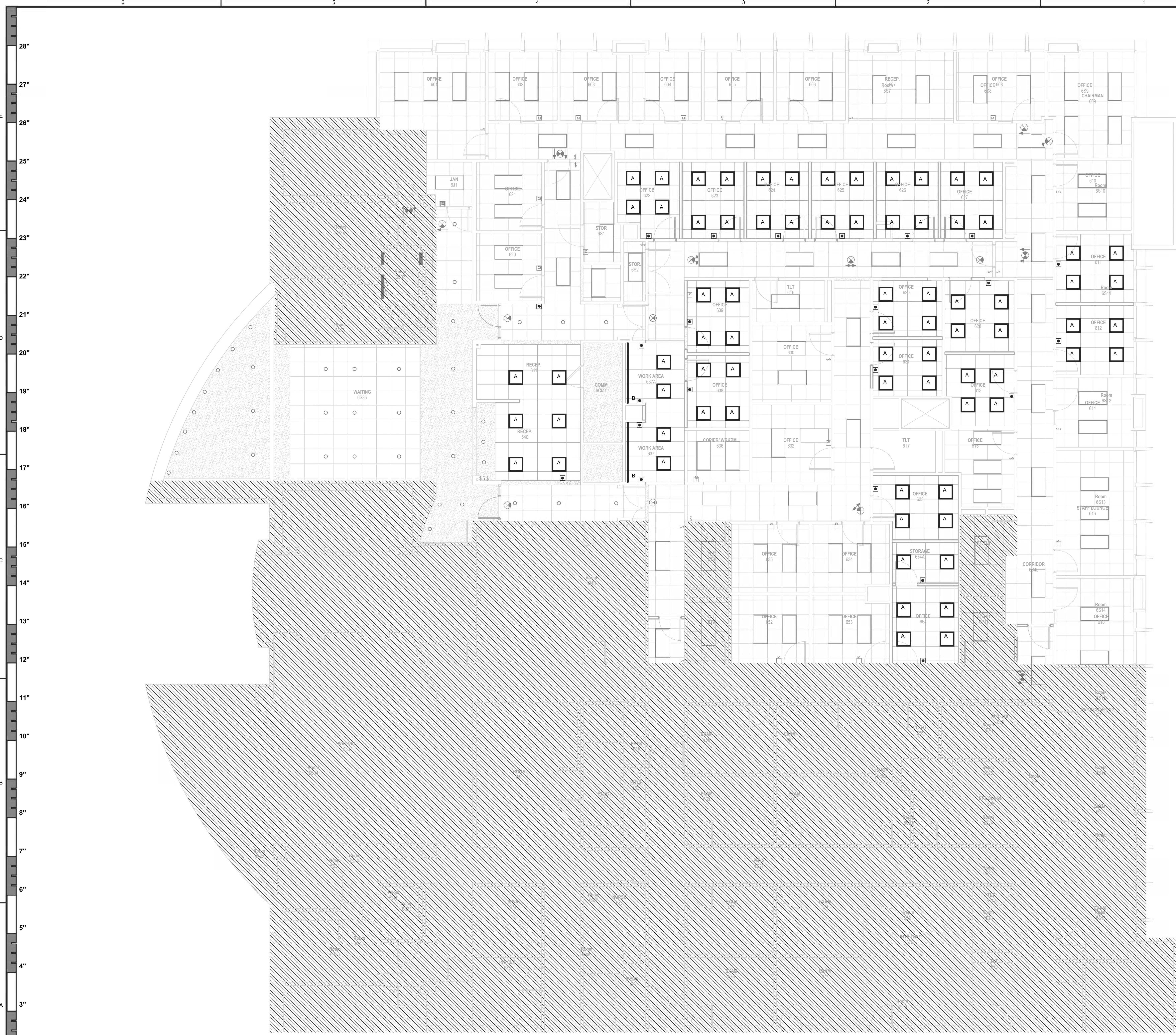
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**E102**  
FLOOR PLAN - LEVEL 6 - POWER  
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GENERAL NOTES

1. REUSE EXISTING LIGHTING CIRCUITS TO SERVE NEW LIGHTING. CONTRACTOR TO VERIFY EXISTING LIGHTING VOLTAGE AND CIRCUIT NUMBERS IN THE RENOVATED AREA PRIOR TO ANY DEMOLITION WORK.
2. ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILING (SEE NOTE 2). NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILING, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
3. VISIBLE CONDUITS IN EXPOSED CEILING AREAS (SUCH AS CORRIDORS, OPEN OFFICE AREAS, OPEN SEATING, ETC.) SHALL BE MINIMIZED SUCH THAT THE ONLY VISIBLE CONDUITS ARE THOSE SERVING LIGHTING IN SUCH AREAS. OTHER CONDUITS/CIRCUITS SHALL NOT BE ROUTED EXPOSED THROUGH OPEN CEILING SPACES. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF EXPOSED CONDUITS AND CONDUIT ROUTING SHALL BE HIGH AND TIGHT. ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES, IN A VISUALLY CLEAN MANNER. WHERE CONDUITS ARE INSTALLED EXPOSED IN OPEN CEILING AREAS, THEY SHALL BE PAINTED TO MATCH DUCTWORK, STRUCTURE, DUCTWORK AND OTHER TRADES. COORDINATE ANY APPLICABLE PAINT COLOR/FINISH WITH ARCHITECT AND ARCHITECTURAL RCP PRIOR TO ROUGH-IN.
4. ALL LIGHT SWITCHES AND CONTROL DEVICES SHALL BE MOUNTED PER ADA REQUIREMENTS.
5. VERIFY EXACT HEIGHT AND LOCATION OF LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL RCP.
6. REFER TO LIGHTING CONTROL SCHEDULE (E501) AND DETAILS FOR LIGHTING CONTROLS IN EACH ROOM TYPE.
7. PROVIDE ADDITIONAL DIMMING MODULES, LIGHTING CONTROL STATIONS, CEILING OCCUPANCY SENSORS, DAYLIGHT SENSORS, HUBS, ETC. AS REQUIRED TO FACILITATE FIXTURE CONTROL AS NOTED IN LIGHTING CONTROL SCHEDULE.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE FOR EACH FIXTURE SPECIFIED.
9. EACH DIMMER SHALL BE COMPATIBLE WITH THE FIXTURES BEING DIMMED (0-10V, ELECTRONIC LOW VOLTAGE, ETC.).
10. PROVIDE CONTINUOUS AUTOMATIC DIMMING OF FIXTURES IN DAYLIGHTING ZONES AS DEFINED AND REQUIRED IN ENERGY CODE.
11. UTILIZE EXISTING CIRCUITS SERVING LIGHTING FIXTURES BEING DEMOLISHED TO SERVE NEW LIGHTING FIXTURES. CONTRACTOR TO CONFIRM FIXTURE VOLTAGE AND CIRCUIT VOLTAGE MATCH.

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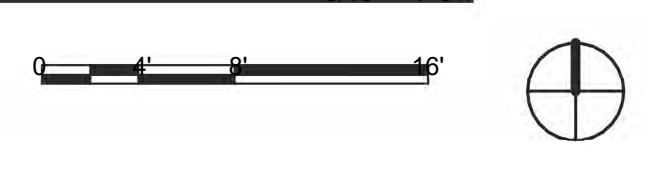
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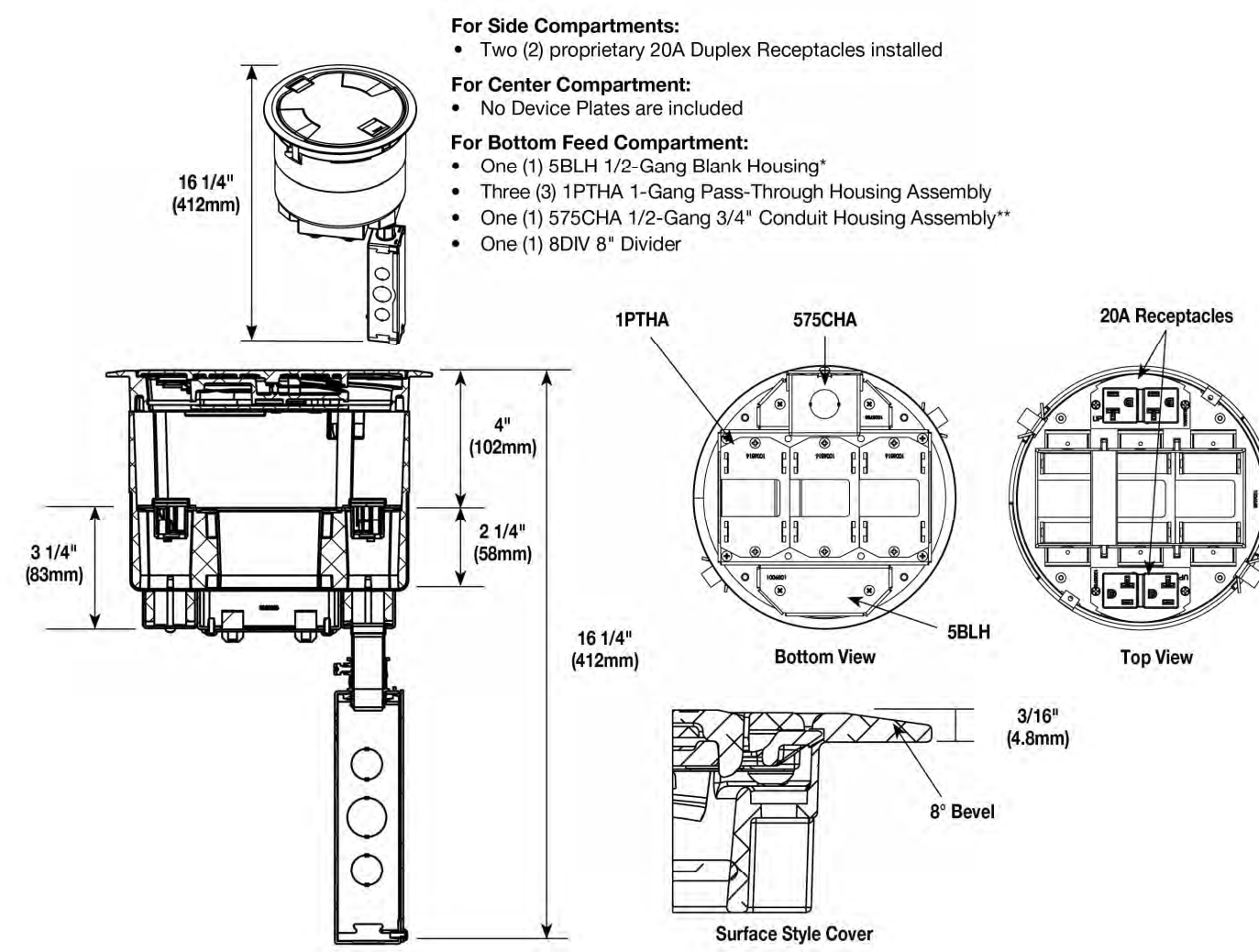
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**E201**  
 REFLECTING CEILING  
 PLAN - LEVEL 6 -  
 LIGHTING  
 TreanorHL NO. 0688.2401.0

REFLECTED CEILING PLAN - LEVEL 6 - LIGHTING 1

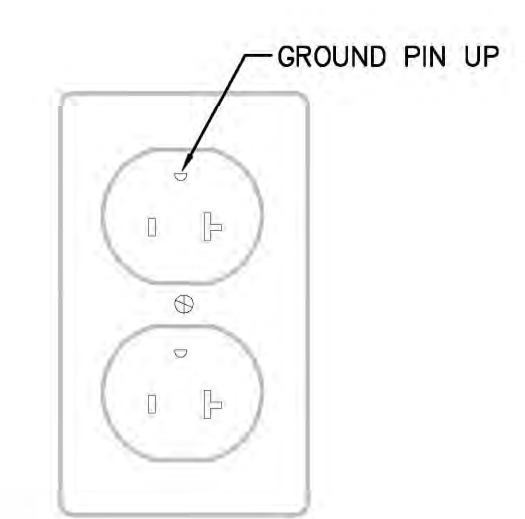


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**1 TYPICAL POKE-THRU FLOOR BOX DETAIL**  
NOT TO SCALE

- NOTES**
- WIREMOLD LEGRAND EVOLUTION SERIES 6" POKE-THRU FLOOR BOX, WITH AUTO-CLOSE EGRESS DOOR DIE CAST ALUMINUM COVER ASSEMBLY, CABLE MANAGEMENT ADA GUIDELINE COMPLIANCE, TOPGUARD PROTECTION, CONFIGURATION AND SIZES AS DESCRIBED ON FLOOR PLANS.
  - PROVIDE ALL FLOOR BOXES WITH ASSOCIATED FACE PLATES AND JACKS FOR POWER AS SHOWN ON DRAWINGS.
  - FLOOR BOX COLOR/FINISH/TRIM SHALL BE COORDINATED WITH FLOORING COLOR/TYPE FOR EACH SPACE. VERIFY EACH APPLICATION WITH ARCHITECT.
  - DETAIL AND MODEL NUMBERS SHOWN ABOVE ARE GENERIC.



**2 RECEPTACLE DETAIL**  
NOT TO SCALE

- NOTES**
- TYPICAL FOR ALL VERTICAL RECEPTACLE LOCATIONS.
  - ALL COUNTER HEIGHT RECEPTACLES SHALL BE MOUNTED VERTICALLY UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL FOR COORDINATION.

LIGHTING CONTROLS BASIS OF DESIGN IS WIRED ACUITY nLIGHT. CONFIRM IF BUILDING HAS ANY EXISTING nLIGHT GATEWAYS, AND IF NOT, THEN PROVIDE GATEWAYS AS REQUIRED.

PROVIDE ALL REQUIRED COMPONENTS FOR NETWORKED LIGHTING CONTROL SYSTEM.

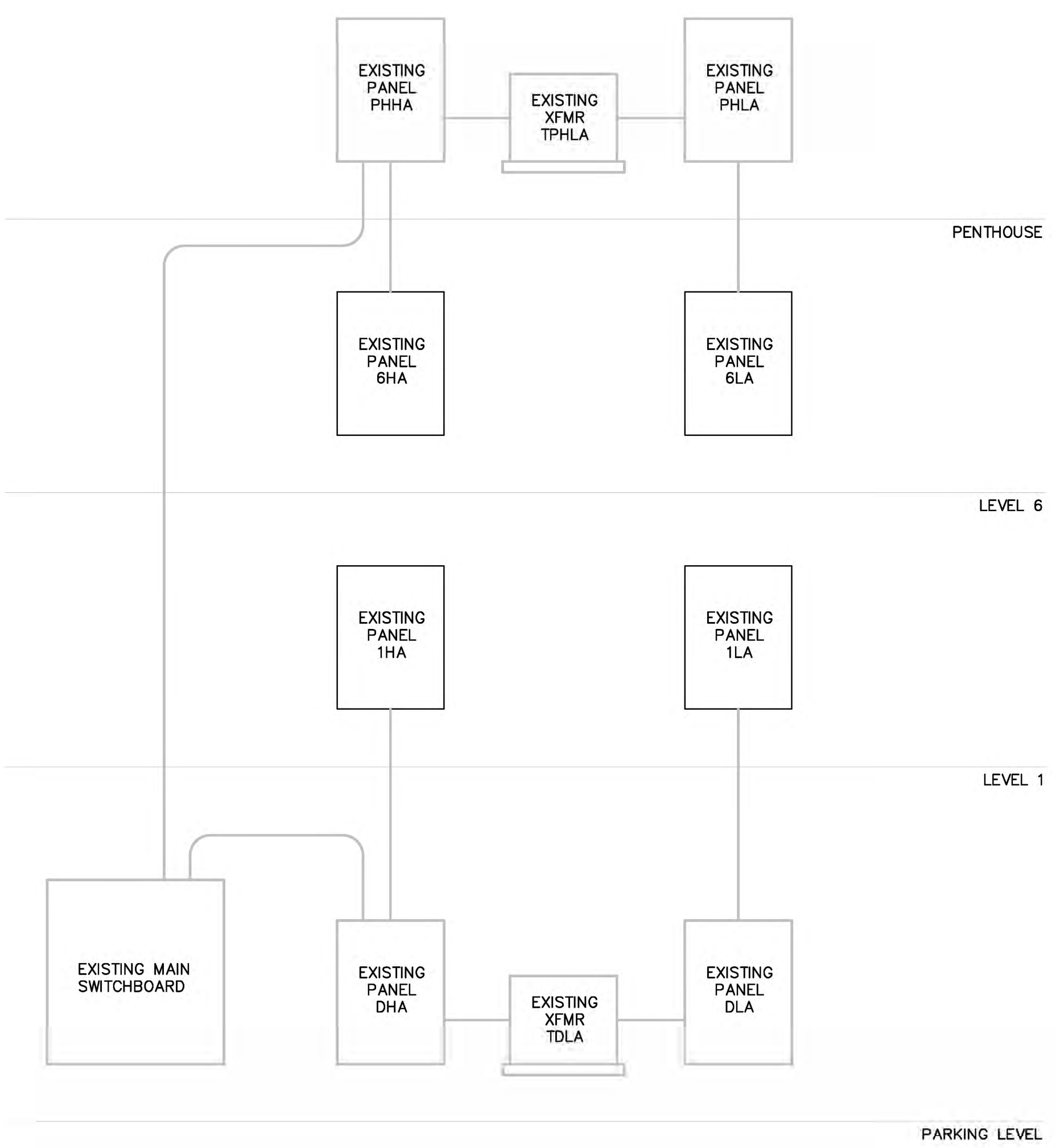
ELECTRICAL SYMBOLS	
	LIGHT FIXTURE - LETTER DENOTES TYPE
	STRIP LIGHT FIXTURE (SURFACE OR SUSPENDED) LETTER DENOTES TYPE
	LIGHT FIXTURE - LETTER DENOTES TYPE
	WALL MOUNTED LIGHT FIXTURE - LETTER DENOTES TYPE
	REPLACEMENT OF EXIT LIGHT - ARROW AS INDICATED
	NEW EXIT LIGHT (COLORED RED) - ARROW AS INDICATED
	JUNCTION BOX
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED BELOW GRADE OR BELOW FLOOR - SEE SPECS
	CONDUIT HOMERUN
	DISCONNECT SWITCH OR BREAKER
	MOTOR CONTROLLER OR STARTER
	MOTOR
	TELEPHONE/DATA OUTLET (REFER TO DATA DRAWINGS)
	MOTOR CIRCUIT SWITCH
	WEATHERPROOF
	A.F.F. ABOVE FINISHED FLOOR
	G.F.I. GROUND FAULT INTERRUPTER
	LIGHTING CONTROL STATION (REFER TO LIGHTING CONTROL SCHEDULE)
	POKE-THRU FLOOR BOX
	SINGLE POLE KEYED SWITCH
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET

ALL SYMBOLS SHOWN IN SYMBOL LIST ARE NOT NECESSARILY USED.

INTERIOR LIGHTING CONTROL SCHEDULE												
LIGHTING CONTROL TYPE	ROOM TYPE	VACANCY SENSORS (CEILING)	OCCUPANCY SENSORS (CEILING)	POWER PACK OR RELAY MODULE	0-10V DIMMING CONTROL	PRESET SCENE CONTROL OR LAST SETTING MEMORY	ON FUNCTION	OFF FUNCTION	ZONE 1	ZONE 2	ZONE 3	NOTES
1	OFFICE	X		X	X	X	MANUAL TO 100%	AUTO (20 MIN) OR MANUAL	ALL			PROVIDE AUTOMATIC CONTINUOUS DIMMING OF FIXTURES IN DAYLIGHTING ZONES WHERE APPLICABLE PER ENERGY CODE.
2	WORK AREA		X	X	X	X	AUTO TO 100% FOR SAFETY	AUTO (20 MIN) OR MANUAL	ALL			SCENES AS RECOMMENDED BY HORTON CONTROLS GROUP.
	RECEPTION		X	X	X	X			ALL			
3	STORAGE	X		X			MANUAL TO 100%	AUTO (20 MIN) OR MANUAL	ALL			

**NOTES:**

- THIS CONTROL SCHEDULE INCLUDES TYPICAL ROOMS AND DOES NOT INCLUDE ALL SPACES TO BE CONTROLLED BY LOW VOLTAGE LIGHTING CONTROL SYSTEMS. ALL SPACES IN PROJECT SHALL BE CONTROLLED BY LIGHTING CONTROL SYSTEMS EXCEPT ROOMS SPECIFICALLY LISTED AS "MANUAL SWITCHES" TYPE. INCLUDE ALL BUILDING SPACES EVEN THOUGH NOT NECESSARILY INCLUDED IN THIS SCHEDULE.
- "ALL FIXTURES" DENOTES THAT ALL FIXTURES IN ROOM SHALL BE CONTROLLED.
- VARIOUS ROOM TYPES ARE TYPICAL REFER TO FLOOR PLANS FOR QUANTITY OF ROOMS.
- REFER TO FLOOR PLANS FOR QUANTITY OF LOW VOLTAGE CONTROL STATIONS.
- PROVIDE QUANTITY OF SENSORS TO ACHIEVE 100% ROOM COVERAGE FOR ROOMS WITH VACANCY/OCCUPANCY SENSORS.
- SUBMIT PHOTOMETRIC CALCULATIONS FOR ALL INTERIOR SPACES. INCLUDE IN FIXTURE SUBMITTALS.



**3 EXISTING PARTIAL ONE-LINE DIAGRAM**  
NOT TO SCALE

NOTE: FOR INFORMATION ONLY.

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER AND MODEL (OR APPROVED EQUAL)	MOUNTING	LED	LUMEN OUTPUT	VOLTAGE
A	2X2' BACKLIT LED FLAT PANEL FIXTURE, 0-10V DIMMING, SELECTABLE LUMENS, SELECTABLE CCT COLOR TEMPERATURE.	DAY-BRITE CFI 25BP3040LCS-2-UNV-DIM	RECESSED	SELECTABLE 30/35/40 WATTS 3500/4000/5000K 80+ CRI (MATCH ADJACENT EXISTING FIXTURES AS CLOSE AS POSSIBLE)	SELECTABLE	120-277V VERIFY EXISTING CIRCUIT VOLTAGE
B	TAPE LIGHT, LENGTH TO MATCH FULL LENGTH OF AVAILABLE UNDER CABINET SPACE. REFER TO ARCHITECTURAL FOR DIMENSIONS/LENGTH. 0-10V DIMMABLE, DAMP LOCATION LISTED, VERY HIGH OUTPUT, QUANTITY AND RATING OF POWER SUPPLIES TO BE SELECTED BY MANUFACTURER. LOCATIONS FOR REMOTE POWER SUPPLIES TO BE COORDINATED WITH ARCHITECT. PROVIDE EXTRUDED ALUMINUM CHANNEL FOR TAPE LIGHT WITH DIFFUSED LENSING.	LUMINI OPTIC ARTS LineLED LL72 SERIES	CHANNEL	6 W/LF 4000K (VERIFY WITH ARCHITECT) 80 CRI	537LF	120V -24V
EXT	EXIT LIGHT, AC ONLY, ON EMERGENCY CIRCUIT, GREEN ON CLEAR/MIRROR, BRUSHED ALUMINUM FINISH, # FACES AND DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS FOR EACH LOCATION.	LITHONIA LRP W/ ELA US12 STEM KIT AS REQUIRED	RECESSED/STEM REFER TO DWGS AND CONFIRM EACH WITH ARCHITECT	1.1 WATT		VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE

**NOTES:**

- VERIFY EXACT LOCATION, MOUNTING, AND METHOD OF INSTALLATION FOR ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- FIXTURE COLORS AND FINISHES SHALL BE AS SELECTED BY ARCHITECT.
- SUBMIT SINGLE, UNIFIED, POINT-BY-POINT FOOT CANDLE CALCULATION FOR ALL INTERIOR SPACES AND SUBMIT WITH FIXTURE SUBMITTAL. IF NOT INCLUDED IN FIXTURE SUBMITTAL, PACKAGE WILL BE MARKED REVISE AND RESUBMIT.

BRANCH CIRCUIT WIRE SIZE SCHEDULE	
DEVICE SERVED BY	CONDUIT/CONDUCTORS
1P-20A	2#12 & #12 GRD IN 1/2" C
2P-15A	2#12 & #12 GRD IN 1/2" C
2P-20A	2#12 & #12 GRD IN 1/2" C
3P-20A	3#12 & #12 GRD IN 1/2" C
3P-25A	3#10 & #10 GRD IN 3/4" C
1P-30A	2#10 & #10 GRD IN 3/4" C
2P-30A	2#10 & #10 GRD IN 3/4" C
3P-30A	3#10 & #10 GRD IN 3/4" C
3P-35A	3#8 & #10 GRD IN 3/4" C
2P-40A	2#8 & #10 GRD IN 3/4" C
3P-40A	3#8 & #10 GRD IN 3/4" C
2P-50A	2#6 & #10 GRD IN 1" C
3P-50A	3#6 & #10 GRD IN 1" C
2P-60A	2#4 & #10 GRD IN 1-1/4" C
3P-60A	3#4 & #10 GRD IN 1-1/4" C
2P-70A	2#4 & #8 GRD IN 1-1/4" C
3P-70A	3#4 & #8 GRD IN 1-1/4" C
2P-80A	2#3 & #8 GRD IN 1-1/4" C
3P-80A	3#3 & #8 GRD IN 1-1/4" C
2P-90A	2#2 & #8 GRD IN 1-1/2" C
3P-90A	3#2 & #8 GRD IN 1-1/2" C
2P-100A	2#1 & #8 GRD IN 1-1/2" C
3P-100A	3#1 & #8 GRD IN 2" C
2P-125A	2#1/0 & #8 GRD IN 2" C
3P-125A	3#1/0 & #8 GRD IN 2" C

**NOTES:**

- WIRE/CONDUIT SIZE SHOWN IS MINIMUM AND SHALL BE INCREASED IF SHOWN OTHERWISE ON DRAWINGS AND AS REQUIRED BY SPECIFICATIONS. PROVIDE NEUTRAL CONDUCTOR FOR 2 POLE AND 3 POLE CIRCUITS AS REQUIRED.
- PROVIDE NEUTRAL CONDUCTORS IN ADDITION TO CONDUCTORS SHOWN IN WIRE SIZE SCHEDULE FOR 2 POLE AND 3 POLE CIRCUITS AS REQUIRED.



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Date: 08/15/2024

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NO	DESCRIPTION	DATE

**E501**  
ELECTRICAL SCHEDULES AND DETAILS

**YE**  
YAGGI ENGINEERING, INC.  
6840 INTERSTATE 20 WEST, SUITE 270  
ARLINGTON, TEXAS 76017  
817-483-2373 FAX: 817-483-4233  
TEXAS REGISTRATION NO. 1-4662  
YE PROJECT NO. 2427-00

TreanorHL NO. 0698-2401-0

GENERAL NOTES

- 1. GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND OTHER REQUIREMENTS OF DIVISION 1, AS WELL AS, THE ELECTRICAL, AUDIO VISUAL, AND SECURITY PLANS AND SPECIFICATIONS, MAY APPLY TO THE WORK SPECIFIED.
2. PROVIDE ALL MATERIALS, COMPONENTS, TOOLS, AND LABOR TO COMPLETE A TELECOMMUNICATIONS INFRASTRUCTURE AS SHOWN IN THE STRUCTURED CABLING SYSTEM DOCUMENTS, CONTRACTS AND DRAWINGS.
3. CAREFULLY EXAMINE THE SITE TO DETERMINE THE EXTENT OF WORK AND CONDITION UNDER WHICH IT WILL BE DONE.
4. REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
5. BRING DISCREPANCIES BETWEEN DESIGN DOCUMENTS AND ACTUAL FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF OWNER, OR THEIR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
6. REFER TO TECHNOLOGY, AUDIO VISUAL AND SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
7. NOTE AND REPORT TO GC, IF THE COMMUNICATION SYSTEM PATHWAY DO NOT COMPLY WITH COMMUNICATIONS SPECIFICATIONS AND DRAWINGS PRIOR TO INSTALLING CABLE.
8. TAKE NECESSARY MEANS TO ASSURE COMMUNICATION SYSTEM COMPONENTS ARE PROTECTED FROM MECHANICAL DAMAGE BEFORE, DURING AND AFTER CONSTRUCTION.
9. REFERENCE DIVISION 27 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.
10. ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR GC PRIOR TO INSTALLATION.
11. ADHERE TO ALL TELECOMMUNICATIONS CABLING STANDARDS SET FORTH IN THE ANSI-TIA 568-C STANDARDS.

COMMUNICATIONS PATHWAY

- 1. INSTALL ALL 4" BACKBONE CONDUITS WITH THREE (3) 3"-3 SLOTTED FABRIC MESH INNERDUCTS PER CONDUIT.
2. VERIFY CABLE J-HOOKS PATHWAY ROUTING PRIOR TO INSTALLATION OF HORIZONTAL CABLES TO ENSURE ABLE PATHWAY DOES NOT CAUSE CABLE LENGTHS TO EXCEED MAXIMUM DISTANCE.
3. BACK BOXES INSTALLED FOR COMMUNICATIONS DATA AND VOICE WIRING TERMINATION SHALL BE 4 11/16"x4 11/16"x2.5" DEEP BOXES TO ALLOW FOR THE REQUIRED WORKING CLEARANCE OF THE UTP CABLE.
4. INSTALL SINGLE GANG MUD RINGS ON ALL COMMUNICATIONS WALL BOXES.
5. CONDUITS TO COMMUNICATIONS WALL BOXES SHALL BE MINIMUM OF 1" DIAMETER AND SHALL BE COMPLETE WITH NYLON PULL STRING.
6. PROVIDE CABLE J-HOOKS RATED FOR SUPPORTING SPECIFIED CATEGORY DATA CABLING THAT IS NOT IN CONDUIT. COORDINATE WITH GC ON CABLE PATHS PRIOR TO INSTALLATION OF CABLING.
7. DO NOT EXCEED MANUFACTURERS OR NEC MAXIMUM RECOMMENDED FILL RATIO FOR ANY GIVEN PATHWAY.
8. SUPPLY SOLUTIONS AND SHOP DRAWINGS SUBMITTALS FOR CONDUIT SEALING MATERIALS AND SYSTEMS. ENSURE SYSTEMS ARE INSTALLED PER MANUFACTURERS UL LISTING.
9. PROPERLY FIRE STOP ALL TELECOM PATHWAY CONDUITS AND UNUSED TELECOM INTENDED USE CONDUITS PRIOR TO SUBSTANTIAL COMPLETION.
10. INSTALL CONDUIT RUNS WITH NO MORE THAN TWO (2) 90 DEG. BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CAN NOT BE MET, J-BOX MUST BE PLACED IN THE RUN, WITH THE ABILITY TO ACCESS BOX THROUGH THE CEILING.
11. CONDUITS SHALL HAVE CONNECTORS, PROTECTIVE BUSHINGS, AND PULL STRINGS AND SHALL BE GROUNDED.
12. COORDINATE WITH ARCHITECT AND OWNER ON ENTRY PATHWAYS AND OUTLET BOX PLACEMENT IN MODULAR FURNITURE AND CUSTOM MILLWORK.
13. ADHERE TO COMMERCIAL BUILDING STANDARD OR TELECOMMUNICATIONS PATHWAYS SET FORTH IN ANSI-TIA 568-E STANDARD.
14. PROVIDE CONDUIT FROM EACH OUTLET BOX TO ACCESSIBLE CEILING. OUTLETS IN OPEN OR NON-ACCESSIBLE CEILINGS SHALL HAVE CONDUIT ROUTED TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR TRAY PATHWAY.
15. CONDUIT RUNS THAT HAVE AN INTERNAL DIAMETER OF 2" OR LESS SHALL HAVE A BEND RADIUS SIX (6) TIMES THE INTERNAL CONDUIT RADIUS. IF CONDUIT RUNS HAS AN INTERNAL DIAMETER OF 2" OR MORE IT SHALL HAVE A BEND RADIUS TEN (10) TIMES THE INTERNAL CONDUIT RADIUS.
16. PROVIDE LONG RADIUS BENDS ON ALL 90 DEGREE TURNS. UTILIZE 45-DEGREE BENDS WHEN POSSIBLE AND PROVIDE ADDITIONAL PULL BOXES AS NEEDED TO ELIMINATE STRESS ON CABLE.
17. CONDUIT SLEEVES ARE REQUIRED FOR CABLE INGRESS/EGRESS IN ROOMS WHOSE WALLS EXTEND TO DECK (I.E. FIREWALL, SOUND ABSORPTION, ETC) SLEEVE TO BE A MINIMUM 2" TO MAINTAIN A 30% FILL RATIO. COORDINATE SLEEVE SIZE REQUIREMENTS BASED ON CABLE TYPE BEING INSTALLED.
18. MARK WITH PERMANENT INK ALL WALL BOXES AND CONDUITS THAT ARE TO BE USED FOR DATA COMMUNICATIONS WITH THE WORD "DATA".
19. CORRIDOR TRAYS MUST HAVE CONTINUOUS RAIL SIDES.
20. PROVIDE CORRIDOR TRAYS WITH SLEEVED ACCESS THROUGH WALLS ALONG THE ROUTE.
21. INSTALL CORRIDOR TRAYS WITH MANUFACTURER APPROVED TRANSITIONS AND TURNS.
22. A MINIMUM OF 12" INCHES CLEARANCE MUST BE PROVIDED ABOVE THE TOP OF THE OVERHEAD TRAY.
23. PROVIDE MATERIALS, COMPONENTS, TOOLS, AND LABOR TO COMPLETE COMMUNICATIONS CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SHOWN IN THE DIVISION 26 AND 27 DOCUMENTS.

COMMUNICATION SYSTEMS

- 1. RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
2. INSTALL 8 1/4" X 4" W X 3/4" T GRADE ACX PAINTED FIRE RATED PLYWOOD ON DESIGNATED WALLS OF THE TELECOM ROOMS. PLYWOOD SHALL BE PAINTED TWO COATS WITH WHITE PAINT, LEAVING FIRE RATED STAMP EXPOSED.
3. GRAPHIC REPRESENTATION OF PATCH PANELS AND TERMINAL BLOCKS DO NOT REPRESENT EXACT QUANTITIES. CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES FOR ALL CABLING, PLUS 25%.
4. FURNISH AND INSTALL VELCRO CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.
5. PROVIDE FLOOR PLAN AS-BUILT ON "D" SIZE PAPER, LAMINATED WITH PLASTIC AND MOUNTED BEHIND CUT PLEXI-GLASS ON THE WALL IN EACH TELECOM ROOM. REFERENCE TELECOM ROOM ELEVATIONS FOR AS-BUILT PLACEMENT.

COMMUNICATIONS CABLE

- 1. CABLING CONTRACTOR MUST BE A CERTIFIED INSTALLER AND BE ABLE TO PROVIDE MANUFACTURER WARRANTY.
2. TERMINATE ALL CATEGORY JACK INSERTS TO 568-B WIRING SCHEME.
3. HORIZONTAL DATA CABLING SHALL CONSIST OF PLENUM 4PR UTP CABLES TO EACH DATA OUTLET. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
4. WIRELESS OUTLET LOCATIONS SHALL CONSIST OF ONE (1) PLENUM 4PR UTP CABLE TO EACH ACCESS POINT. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
5. NO HORIZONTAL CABLE SHALL BE LONGER THAN 100 METERS. IF THE CONTRACTOR BELIEVES ANY STATION CABLE WILL EXCEED THE 100 METERS (295 FEET) LIMIT WRITTEN APPROVAL FROM THE OWNER'S ARCHITECT/ENGINEER WILL BE REQUIRED PRIOR TO INSTALLATION.
6. TERMINATE HORIZONTAL DATA CABLING ON RACK MOUNTED PATCH PANELS. LOCATED IN TELECOM ROOM, AND ON JACK INSERTS AT THE OUTLET.
7. PROVIDE LACING BARS TO RESTRAIN CABLES AND TO PREVENT STRAINING CONNECTIONS.
8. COMMUNICATIONS CABLE SHALL NOT BE PAINTED.
9. PROVIDE ALL NECESSARY MEANS TO PROTECT ALL DATA/VOICE/FIBER CABLING AND JACKS/PORTS FROM MECHANICAL DAMAGE AND DUST DURING CONSTRUCTION. PROVIDE PAINTERS TAPE OVER PATCH PANEL PORTS, CAPS ON FIBER BULK HEADS AND BAG OUTLET JACK INSERT TERMINATIONS DURING CONSTRUCTION TO MINIMIZE DUST ON CONTACTS.
10. PROVIDE SELF-ADHESIVE VINYL OR VINYL-CLOTH WRAP AROUND TAPE MARKERS, MACHINE PRINTED WITH ALPHA NUMERIC CABLE DESIGNATIONS PER ANSI/TIA-607B STANDARDS WITH APPROVAL FROM OWNER IT.
11. PROVIDE PROPER RATED CABLE TYPE PER INSTALLATION TYPE: OSP, RISER OR PLENUM.
12. ALL CABLING INSTALLED UNDERGROUND IN CONCRETE SLABS, IN DIRECT CONTACT WITH THE EARTH, LOCATIONS SUBJECT TO SATURATION WITH LIQUIDS AND UNPROTECTED LOCATIONS EXPOSED TO WEATHER SHALL BE CONSTRUCTED WITH APPROPRIATE WEATHER PROOFING COMPOUNDS AND SHEATHING. PROVIDE INDICATIONS FOR CABLES EXPOSED TO WEATHER SHALL BE CONSTRUCTED WITH APPROPRIATE WEATHER PROOFING COMPOUNDS AND SHEATHING. PROVIDE ONE (1) 4-PR UTP CABLE TO EACH IP CAMERA. COORDINATE WITH SECURITY CONTRACTOR AND TY-DRAWINGS ON CAMERA CABLING INSTALLATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
13. PROVIDE TWO CATEGORY UTP PATCH CABLES, FOR EACH DATA OUTLET.
14. CONNECT WIRING IN A STRAIGHT PATTERN (NOT TURNED OVER) FROM ORIGINATION TO TERMINATION POINT. CABLE PAIRS SHALL BE ZIP TIED AND EACH CABLE LABELED ON THE BACK OF EACH PATCH PANEL.
15. TWISTED PAIRS MUST REMAIN TWISTED TO WITHIN 1/4" OF CONNECTOR. THIS IS REQUIRED FOR HIGH-SPEED DATA NETWORKS. DO NOT INSTALL WIRING NEAR FLUORESCENT LIGHTING, HIGH-VOLTAGE SOURCES, ELECTRICAL MOTORS, OR OTHER SOURCES OF INTERFERENCE. REFERENCE SPECIFICATIONS FOR SEPARATION REQUIREMENTS.
16. SPLICES WITHIN HORIZONTAL CABLE RUNS ARE NOT ACCEPTABLE.
17. ALL CABLES BEING RUN FOR HORIZONTAL DISTRIBUTION WITHIN THE PLENUM AREAS MUST BE BUNDLED TOGETHER NEATLY AND UNTANGLED, WITH CABLE TIES EVERY 12 FEET. CABLING SHALL LIE FLAT WITHIN AND BE SUPPORTED BY CABLE TRAYS, AND/OR STRUCTURES ATTACHED DIRECTLY TO THE BUILDING STRUCTURE/UPPER DECKING IN THE PLENUM AREAS OR CRAWL SPACES.
18. ADHERE TO MANUFACTURERS' REQUIREMENTS FOR BENDING RADIUS AND PULLING TENSIONS FOR ALL CABLE RUN
19. OUTLET FACEPLATES MUST BE LABELED WITH THE JACK NUMBERS OF PATCH PANEL PORTS AND MDF/IDF ROOM NUMBERS PER ANSI/TIA-607B AND OWNER STANDARDS.

ELECTRICAL

- 1. FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS IN THE PROJECT REFERENCE ELECTRICAL SPECIFICATIONS AND DRAWINGS AND VERIFY WITH COMMUNICATION SPECIFICATIONS AND DRAWINGS. REPORT TO GC DISCREPANCIES PRIOR TO PURCHASE OR INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED.

GROUNDING & BONDING

- 1. BOND ALL METAL RACKS, FRAMES, CABINETS AND MISCELLANEOUS EQUIPMENT ENCLOSURES TOGETHER USING GREEN INSULATED COPPER WIRE SO THAT ALL EQUIPMENT AND STRUCTURED CABLING RACKS ARE AT THE SAME GROUND POTENTIAL. A VOLT-O-METER (VOM) MEASUREMENT BETWEEN ANY TWO POINTS ON METAL RACKS AND EQUIPMENT ENCLOSURES IN THE TELECOMMUNICATIONS ROOMS SHALL BE LESS THAN 1.25 VOLTS DC OR AC POTENTIAL.
2. BOND TOGETHER ALL GROUNDS TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM AS REQUIRED IN ARTICLE 250 OF NFPA 70 - NATIONAL ELECTRICAL CODE.
3. PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDING MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING WIRE.
4. INSTALL MANUFACTURER PROVIDED STAR WASHERS PER PANEL INSTALLED IN ORDER FOR PANELS TO BE BONDED TO RACK. ONLY ONE (1) STAR WASHER IS REQUIRED PER PANEL.
5. ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FORTH IN THE ANSI-J-STD-607-D COMMERCIAL GROUNDING AND BONDING STANDARDS. TERMINATE ALL INCOMING/OUTGOING OSP VOICE CATEGORY BACKBONE CABLES ON WALL FIELD WITH BONDED PRIMARY PROTECTION BLOCKS AND SOLID STATE MODULES.
6. TERMINATE ALL INCOMING/OUTGOING OSP DATA OR POE UTILIZED CATEGORY CABLES ON WALL FIELD ON BONDED IN-LINE SURGE PROTECTOR RATED AT PROPER CLAMPING VOLTAGE FOR THE SPECIFIED DATA CABLING AND POE APPLICATION.

DEMOLITION/COORDINATION

- 1. CAREFULLY REMOVE ANY WIRELESS ACCESS POINTS IN CEILING AREAS TO BE REPLACED AND PROTECT EXISTING CABLING. PROVIDE ACCESS POINTS TO OWNER FOR SAFEKEEPING DURING CONSTRUCTION. RE-INSTALL ACCESS POINTS ONCE CEILING INSTALLATION IS COMPLETE.

TELECOM SYMBOLS LEGEND

Table with 2 columns: Symbol and Description. Symbols include xD, WAP, CAM, WP, xD-FB, xD-PT, xD-AV, CP-M, CP-W, xD-TV, xD-AV, xD-CB.

TELECOM RESPONSIBILITY MATRIX

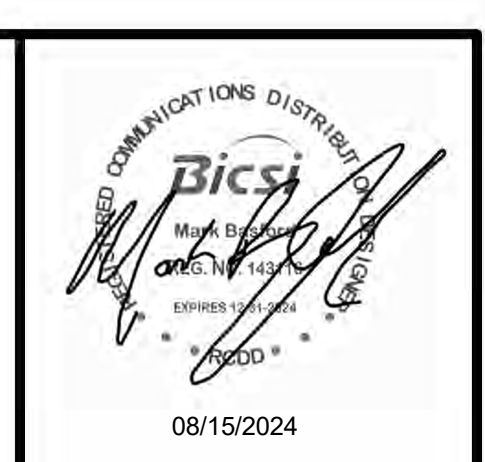
Table with 4 columns: ITEM, GC, IT CONTRACTOR, OWNER. Lists items like NETWORK CABLING TO IDF'S, CONDUITS, J-BOXES, POWER>24VDC, FLOOR BOXES/POKE-THRU'S, etc.

TELECOM ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AFF, AP, AWG, CATV, CON, DB, DEMARC, EMT, ER, GC, HH, IDF, IO, IRC, ISP, LAN, MDF, MH, MM, OCP, OFOI, OTRD, PB, PBB, PBX, PR, PVC, RBB, RF, RMC, SBB, SM, SP, STP, TB, TBB, TBC, TR, TS, UPS, UTP, WAP.

TELECOM SHEET LIST

Table with 2 columns: Sheet Number and Description. Includes T0.00 TELECOM INDEX, T101 TELECOM FLOOR PLAN - LEVEL 1, T106 TELECOM FLOOR PLAN - LEVEL 6, T151 TELECOM RCP - LEVEL 1, T156 TELECOM RCP - LEVEL 6, T500 TELECOM - DETAILS.



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Table with 3 columns: NO, DESCRIPTION, DATE. Includes a section for REVISIONS.

T0.00
TELECOM INDEX
TreanorHL NO. 0698.24010

6

5

4

3

2

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LEGEND

NOT IN SCOPE

KEYNOTES

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T101

TELECOM FLOOR PLAN - LEVEL 1

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TELECOM FLOOR PLAN - LEVEL 1 A1  
1/8" = 1'-0"

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KEYNOTES



GENERAL NOTES



08/15/2024

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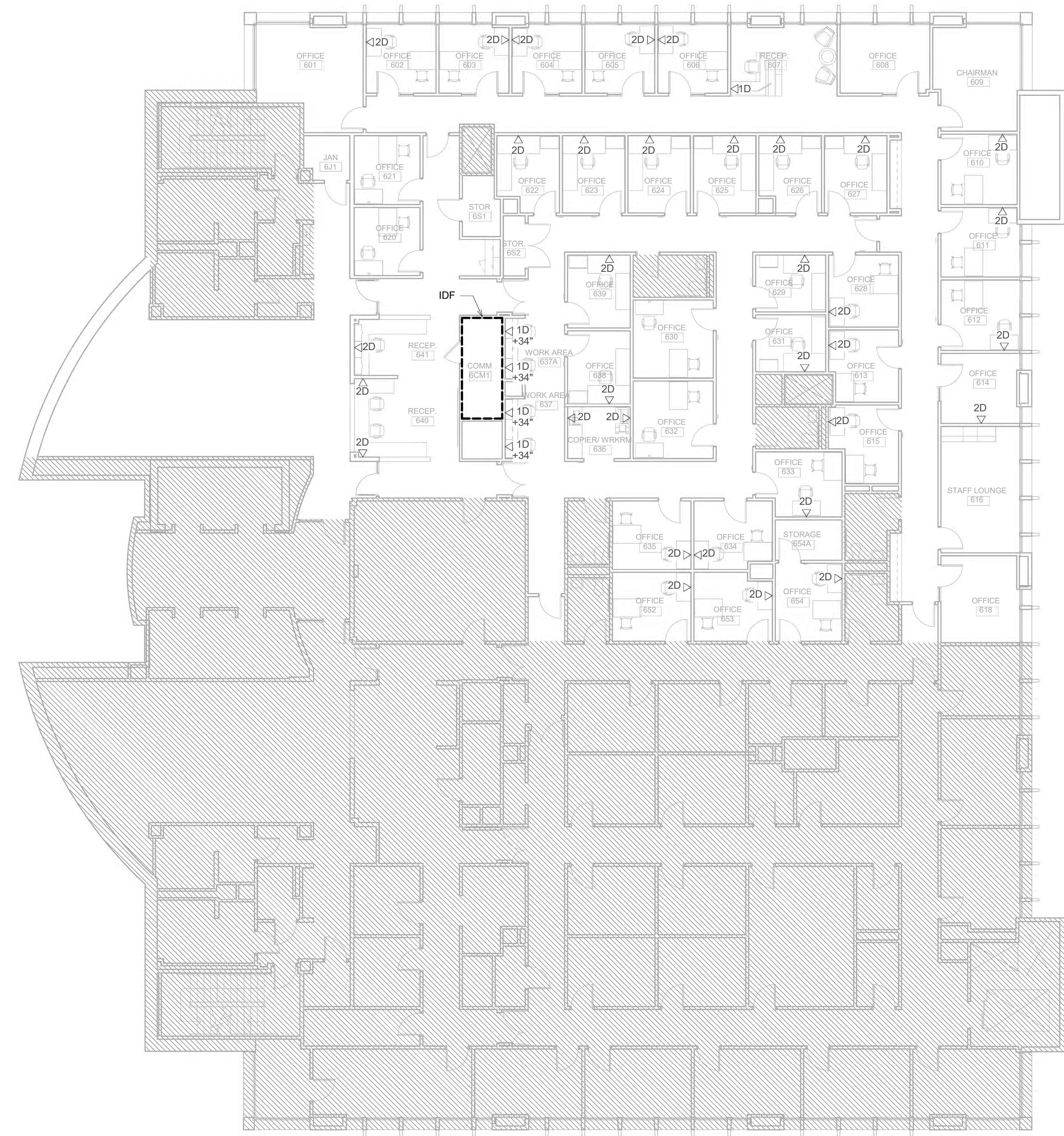
T106

TELECOM FLOOR PLAN - LEVEL 6

treanorHL NO. 0698.24010

8/14/2024 2:39:25 PM Autodesk Docs:HE0698.2401.00 UNT-HSC Health Pavilion Renovation\UNT-HSC Health Pavilion\_R23\_Tech.rvt

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TELECOM FLOOR PLAN - LEVEL 6 A1  
1/8" = 1'-0"

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LEGEND

NOT IN SCOPE

KEYNOTES

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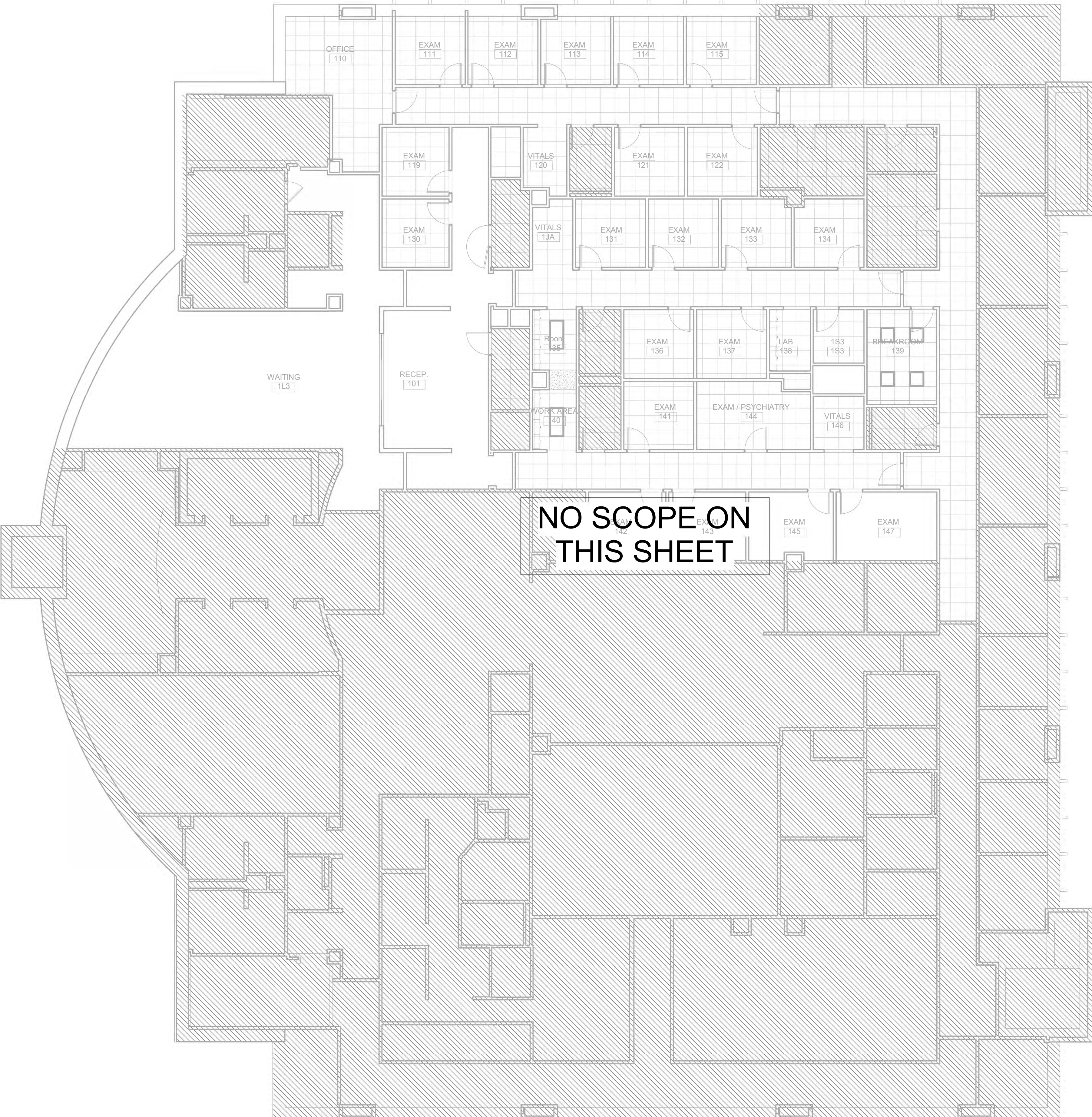
T151

TELECOM RCP - LEVEL 1

treanorHL NO. 0698.24010

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TELECOM RCP - LEVEL 1 A1  
1/8" = 1'-0"

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NOT IN SCOPE

KEYNOTES

GENERAL NOTES



08/15/2024

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UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER  
HEALTH PAVILION 1ST AND 6TH FLOOR RENOVATION  
855 Montgomery St, Fort Worth, TX 76107



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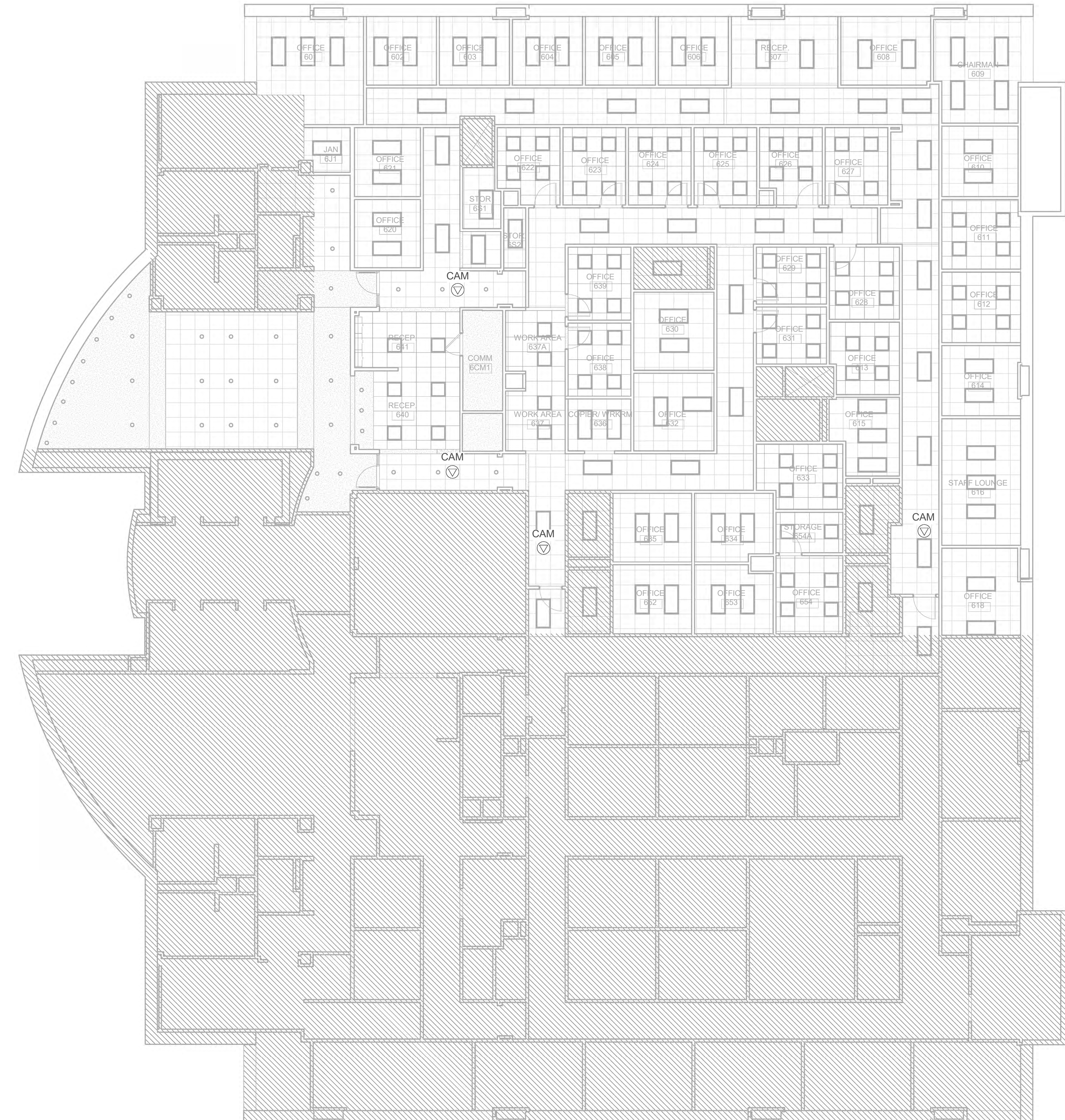
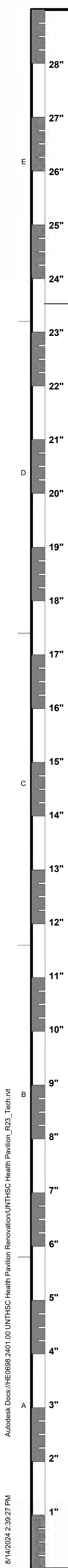
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TELECOM RCP - LEVEL 6

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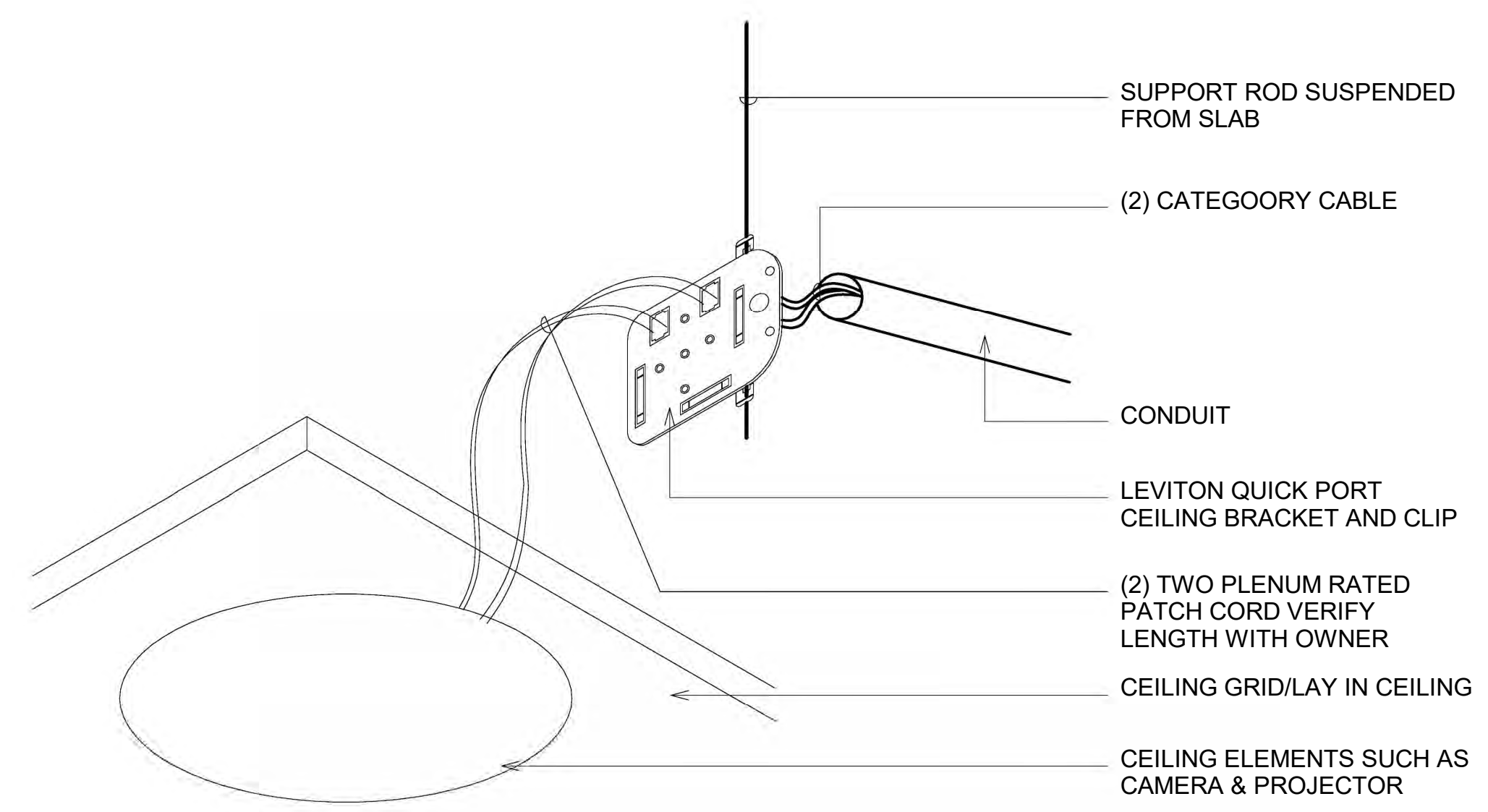
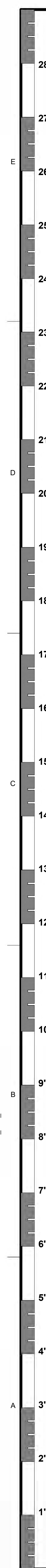
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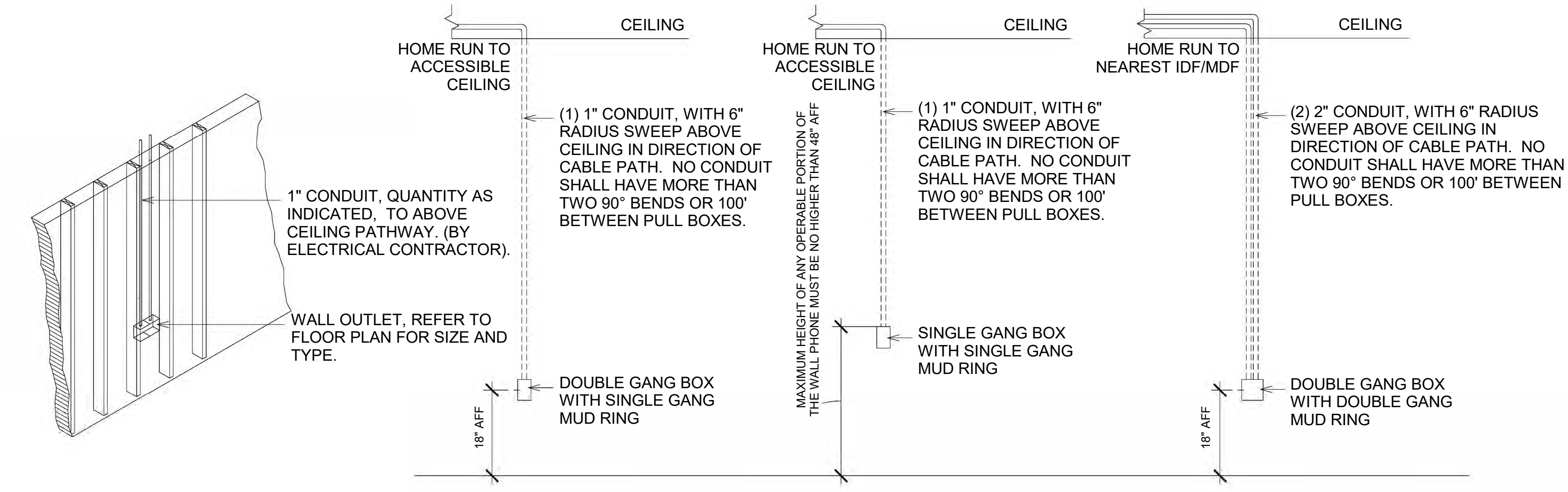
TELECOM RCP - LEVEL 6 A1  
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CEILING ELEMENT ROUGH-IN NTS A2



DATA OUTLET ROUGH IN DETAIL NTS A1



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**T500**  
 TELECOM - DETAILS  
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**28"** **GENERAL NOTES**

- THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS AND REQUIREMENTS OF OTHER DIVISIONS REQUIRE COORDINATION AND SHALL APPLY TO THE DIVISION 28 CONTRACTOR. ANY CONTRADICTION INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR INFORMATION" (RFI) TO THE GC.
- PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR TO INSTALL A COMPLETE VIDEO SURVEILLANCE AND ACCESS CONTROL SYSTEM AS SHOWN IN THE SAFETY AND SECURITY SYSTEM DIVISIONS 27/28 SPECIFICATIONS, "TY" DRAWINGS AND "E" DRAWINGS.
- CAREFULLY EXAMINE THE SITE CONDITIONS TO DETERMINE THE EXTENT OF WORK AND CONDITIONS UNDER WHICH IT WILL NEED TO BE DONE.
- REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
- DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER, OR THEIR DESIGNATED REPRESENTATIVE, FOR CLARIFICATION.
- REFER TO SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- NOTE AND REPORT TO THE GC ANY WORK PERFORMED BY OTHERS, INTENDED FOR THE SECURITY SYSTEM, IF IT DOES NOT COMPLY WITH ELECTRONIC SAFETY AND SECURITY SYSTEM SPECIFICATIONS AND DRAWINGS.
- TAKE NECESSARY MEANS TO PROTECT SECURITY SYSTEM COMPONENTS FROM MECHANICAL DAMAGE, DUST AND DIRT BEFORE, DURING AND AFTER CONSTRUCTION.
- ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR GC PRIOR TO INSTALLATION.
- REFERENCE DIVISION 28 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.

**SECURITY PATHWAYS**

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUITS, PULL STRINGS, CORES AND JUNCTION BOXES AS REQUIRED ON THE "TY" DRAWINGS.
- CONDUIT RUNS SHALL NOT CONTAIN MORE THAN TWO (2) SWEEPING 90 DEGREE BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CANNOT BE MET, A J-BOX MUST BE PLACED IN THE RUN WITH THE ABILITY TO ACCESS THROUGH THE CEILING.
- PROPERLY FIRE STOP AND LABELLED ALL SECURITY PATHWAY CONDUITS AND UNUSED "SECURITY INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (VIDEO SURVEILLANCE, INTERCOM AND ACCESS CONTROL) AS LONG AS NEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED CEILING MOUNTING HARDWARE WHERE REQUIRED FOR CABLING INSTALLED BY SECURITY CONTRACTOR.
- ALL DOOR PREF TO INCLUDE CONDUIT, PULL STRINGS, PROTECTIVE BUSHINGS AND JUNCTION BOXES AS SHOWN ON THE "TY" DRAWINGS PRIOR TO THE SECURITY INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 28 SPECIFICATIONS AND "TY" DRAWINGS
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR REQUIRED TO COMPLETE SECURITY CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND THE ELECTRICAL DOCUMENTS, SPECIFICATIONS AND DRAWINGS.

**COMMUNICATIONS ROOMS**

- RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.

**ELECTRICAL**

- FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS, REFERENCE ELECTRICAL DOCUMENTS AND VERIFY WITH SECURITY DOCUMENTS. REPORT ANY DISCREPANCIES TO THE GC PRIOR TO PURCHASE OR INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED BY THE SECURITY SYSTEM AND COORDINATED BY THE SECURITY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 120V AC FOR ELECTRIC LOCK POWER SUPPLIES, SECURITY DEVICE POWER SUPPLIES AND CAMERA POWER SUPPLIES AS REQUIRED. SECURITY AND DOOR CONTRACTORS SHALL IDENTIFY LOCATIONS ON SUBMITTALS.

**GROUNDING & BONDING**

- ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FORTH IN THE ANSI-J-STD-607-B COMMERCIAL GROUNDING AND BONDING STANDARDS.
- PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING CONNECTOR.

**VIDEO SURVEILLANCE**

- PROVIDE ALL REQUIRED DEVICES, MOUNTS, HARDWARE AND PERIPHERAL COMPONENTS AS SHOWN ON "TY" DRAWINGS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- PROVIDE CAMERAS AT THE HEIGHT ABOVE GRADE OR ABOVE FINISHED FLOOR (AFF) AS INDICATED ON THE "TY" PLANS.
- COORDINATE LOCATION OF CAMERAS WITH ALL CEILING MOUNTED ARCHITECTURAL AND MEP EQUIPMENT.
- LOCATE CAMERAS AND CONFIGURE LENS SETTINGS TO OPTIMIZE CAMERA VIEWS.
- VERIFY THERE ARE NO PHYSICAL OBSTRUCTIONS TO THE INTENDED CAMERA VIEWS PRIOR TO INSTALLATION. SHOULD ANY OBSTRUCTIONS BE PRESENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND ADJUST THE CAMERA POSITIONS AS NEEDED.
- COORDINATE WITH THE COMMUNICATIONS CONTRACTOR WHO IS RESPONSIBLE FOR THE INSTALLATION OF ALL CABLING FOR IP CAMERAS.
- PROVIDE SECURITY CAMERA POWER INJECTOR AS REQUIRED FOR PAN/TILT/ZOOM (PTZ) CAMERAS TO CONTROL PTZ FUNCTIONS.
- CONTRACTOR IS RESPONSIBLE FOR CAMERA LICENSES, SOFTWARE REVISIONS, NETWORK VIDEO RECORDERS (NVR) AND CAMERA FIELD OF VIEWS AS WELL AS COORDINATION AND TRAINING WITH THE OWNER TO LEARN THE VIEWING AND RECORDING SYSTEM.
- PROVIDE NETWORK STORAGE CALCULATIONS AS PART OF THE SUBMITTAL PACKAGES.
- CONFIGURE MOTION DETECTION WINDOWS WITH THE INVOLVEMENT OF THE OWNER IN ORDER TO MINIMIZE FALSE MOTION EVENTS.

**ACCESS CONTROL**

- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRIC LOCKS AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR PROVIDE EXTERIOR KEY-BYPASS OPTION ON ALL ELECTRIC LOCK DOORS TO ALLOW MANUAL ENTRY. LOCKS TO BE THE SAME MANUFACTURER AS REQUIRED BY BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRICAL TRANSFER HINGES AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SIGNAL INTERFACES AS REQUIRED AND COORDINATED BY THE SECURITY CONTRACTOR FOR RELEASE OF SECURITY CONTROLLED DOORS PER CURRENT LIFE SAFETY CODES.
- HOME-RUN ALL SECURITY COMPOSITE CABLING TO DESIGNATED SECURITY PANEL PER FLOOR AND LEAVE 24-INCH SERVICE LOOP ABOVE DOOR AND ABOVE THE DESIGNATED SECURITY PANEL.
- ALL DOORS ARE SET TO FAIL SECURE WITH PUSH BAR OR HANDLE ACTIVATED "REQUEST TO EXIT" EGRESS AND KEY LOCK INGRESS.
- SIZE DOOR CONTROLLERS, ENCLOSURES, BOARDS AND POWER SUPPLIES TO ALLOW FOR A MINIMUM OF 20 PERCENT FUTURE GROWTH.
- PROVIDE THE FOLLOWING:
  - CARD READERS
  - SUPERVISED RESISTORS
  - DOOR POSITION SWITCH
  - BOARD ENCLOSURE
  - CONTROLLER
  - EXPANSION BOARDS
  - POWER SUPPLIES
  - INTERCOM - MASTER STATION AND REMOTE STATION
  - LOW VOLTAGE CABLE
  - PROJECT MANAGEMENT AND CUSTOMER TRAINING.
- COORDINATE WITH OWNER TO ENSURE SUCCESSFUL TIE INTO OWNERS ACCESS CONTROL SYSTEM.

**SECURITY SYMBOL LEGEND**

	FIXED MEGAPIXEL DOME CAMERA
	360 DEGREE PANORAMIC DOME CAMERA (VIDEO SURVEILLANCE)
	180 DEGREE DOME CAMERA (VIDEO SURVEILLANCE)
	CARD READER - LOCATIONS INCLUDE READER, DOOR CONTACT, REX, AND POWER FOR ELECTRIFIED LOCKSET AND/OR MAGLOCK. ELECTRIFIED LOCKSET AND/OR MAGLOCK PROVIDED BY DOOR CONTRACTOR.
	DOOR POSITION SWITCH ONLY LOCATIONS
	DURESS (PANIC ALARM) BUTTON
	DOOR RELEASE
	REMOTE DOOR INTERCOM
	MASTER INTERCOM WITH DOOR RELEASE
	WALL MOUNTED EMERGENCY PHONE
	ELECTRIFIED LOCKSET - LOCATIONS INCLUDE DOOR CONTACT, REX, AND POWER FOR ELECTRIFIED LOCKSET. PROVIDED BY DOOR CONTRACTOR (FOR TIMED DOORS WITHOUT CARD READERS).
	ACCESS CONTROL PANEL.

**SECURITY RESPONSIBILITY MATRIX**

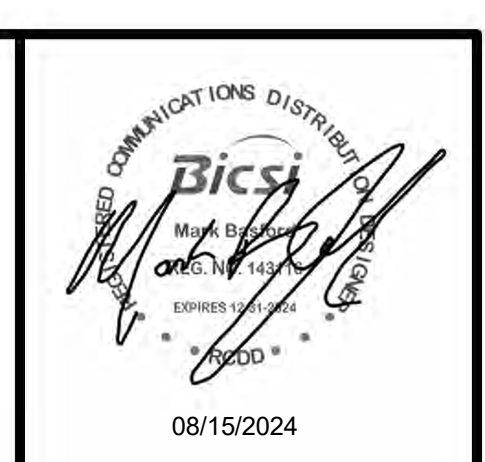
ITEM	GC	SEC	DOOR HARDWARE	OWNER
NETWORK CABLING TO IDF	X			
CONDUITS	X			
J-BOXES	X			
POWER-24VDC	X			
FLOOR BOXES/POKE-THRU'S	X			
DISPLAY BACK BOXES/BACKING	X			
ACCESS PANELS	X			
SECURITY CABLING (NON IP)		X		
SECURITY PANELS		X		
CAMERAS		X		
CARD READERS		X		
DOOR CONTACTS		X		
DOOR LOCKS AND HARDWARE			X	
REX (INTEGRATED)			X	
REX (PIR)		X		
LOW VOLTAGE POWER DISTRIBUTION PANELS AND CABLING		X		
NETWORK VIDEO RECORDERS		X		
SECURITY SYSTEM LICENSES		X		
PROPRIETARY REMOTE LOCKDOWN PANELS				X
COMPUTERS				X

**SECURITY ABBREVIATIONS**

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
APS	ACCESS CONTROL POWER SUPPLY
AWG	AMERICAN WIRE GAUGE
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CH	CHANNEL
CON	CONDUCTOR
CPS	CAMERA POWER SUPPLY
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TUBE
DB	DECIBEL
DGP	DATA GATHERING PANEL
DVR	DIGITAL VIDEO RECORDER
EL	ELECTRONIC LOCKSET
ESS	ELECTRONIC SAFETY & SECURITY
FC	FOOT CANDLE
FOV	FIELD OF VIEW
FPS	FRAMES PER SECONDS
FSD	FLAT SCREEN DISPLAY
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IP	INTERNET PROTOCOL
IR	INFRARED
JPEG	JOINT PHOTOGRAPHIC EXPERTS GROUP
LPS	LOCK POWER SUPPLY
MDF	MAIN DISTRIBUTION FRAME
MPEG	MOTION PICTURE EXPERTS GROUP
NTSC	NATIONAL TELEVISION STANDARDS COMMITTEE
NVR	NETWORK VIDEO RECORDER
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PP	PATCH PANEL
PPF	PIXELS PER FOOT
PTZ	PAN-TILT-ZOOM
REX	REQUEST TO EXIT
SMS	SOFTWARE MANAGEMENT SYSTEM
TP	TERMINATION POINT
TR	TELECOM ROOM
TS	TRADE SIZE
TY	SECURITY DISCIPLINE DESIGNATOR
UM	MICRON
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VMS	VIDEO MANAGEMENT SOFTWARE
WDR	WIDE DYNAMIC RANGE

**SECURITY SHEET LIST**

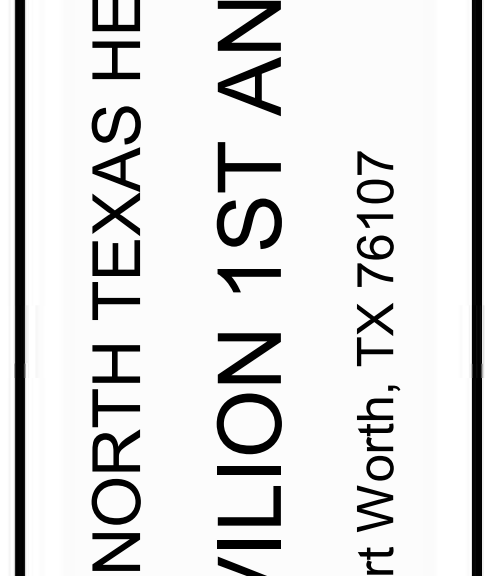
TY0.00	SECURITY INDEX
TY101	SECURITY FLOOR PLAN - LEVEL 1
TY106	SECURITY FLOOR PLAN - LEVEL 6
TY151	SECURITY RCP - LEVEL 1
TY156	SECURITY RCP - LEVEL 6
TY501	SECURITY DETAILS
TY502	SECURITY DOOR DETAILS



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TY0.00  
SECURITY INDEX

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**ACCESS CONTROL SCHEDULE**

DEVICE NUMBER	DOOR NUMBER	DETAIL
CR-101	IL3	TY502 / A1
DR-101	X	TY501 / A2
EB-101	IL3	TY502 / A1

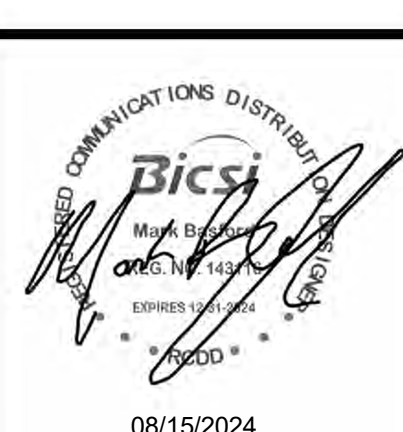
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 NOT IN SCOPE

**KEYNOTES**

1 DOOR RELEASE REPLACEMENT/RELOCATION AT THIS LOCATION UNDER DESK PER DETAIL A2/TY501. CONFIRM FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

**GENERAL NOTES**



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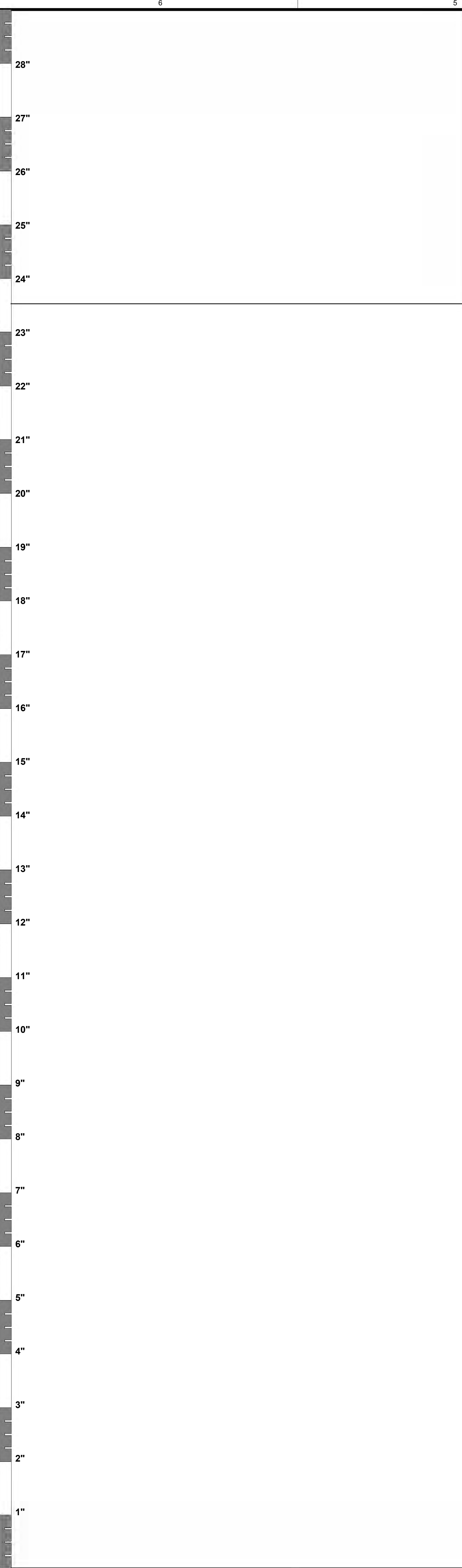
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**TY101**  
 SECURITY FLOOR PLAN - LEVEL 1  
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SECURITY FLOOR PLAN - LEVEL 1 A1  
 1/8" = 1'-0"

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**ACCESS CONTROL SCHEDULE**

DEVICE NUMBER	DOOR NUMBER	DETAIL
CR-601	641A	TY502 / A2
CR-602	6S40A	TY502 / A2
DR-601	640B	TY501 / B1
EB-601	600A	TY502 / A1

**LEGEND**

NOT IN SCOPE

- KEYNOTES**
- DOOR RELEASE BUTTON FOR DOOR 640B, MOUNTED ON WALL PER DETAIL B1/TY501. CONFIRM FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
  - REPLACE DOOR AND REUSE ACCESS CONTROL HARDWARE AND READER. PROVIDE NEW DOOR RELEASE BUTTON ON WALL IN RECEPTION 640.
  - REMOVE EXISTING ACCESS CONTROL AND PROTECT DURING CONSTRUCTION TO RE-USE ON NEW DOOR 600A. RE-INSTALL BADGE READER, MAGLOCK AND MOTION SENSOR. DISCARD MAGNETIC HOLD OPEN. PROVIDE NEW PUSH TO EXIT BUTTON. REFERENCE DETAIL A1/TY502

**GENERAL NOTES**

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**TY106**

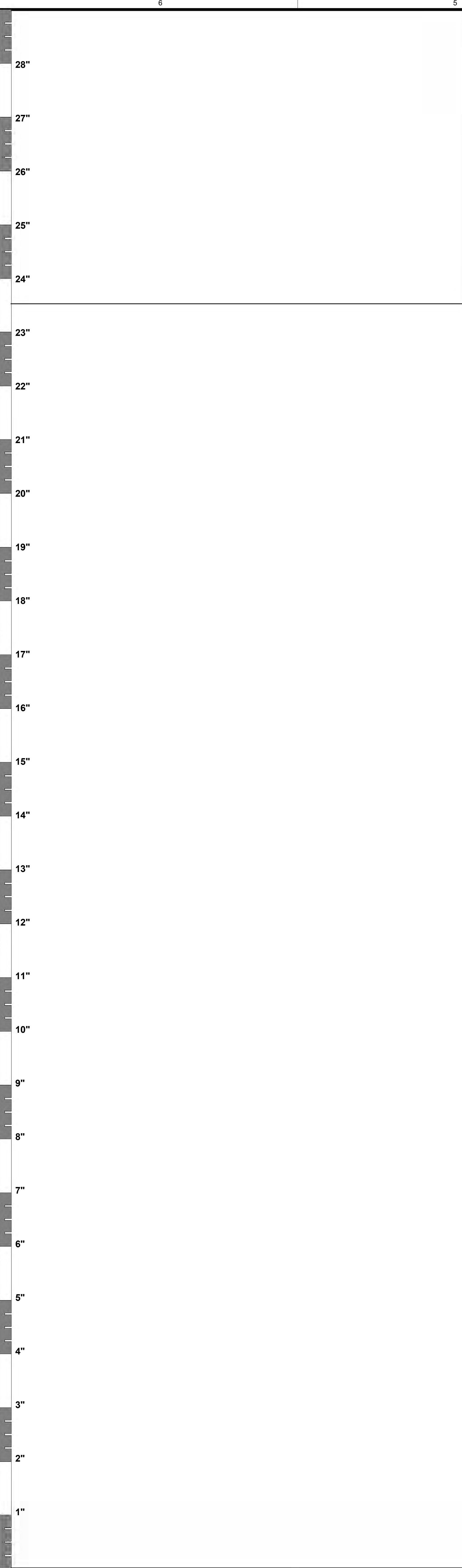
SECURITY FLOOR PLAN - LEVEL 6

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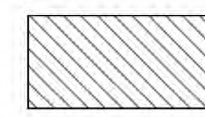
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**CAMERA SCHEDULE**

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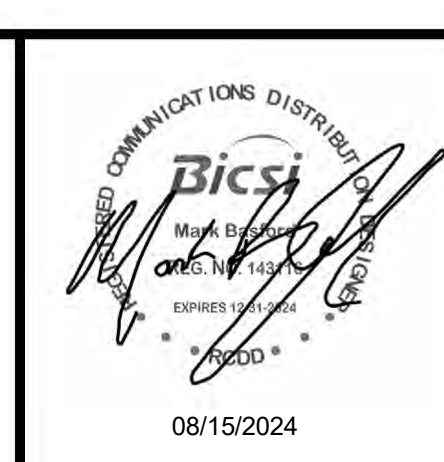
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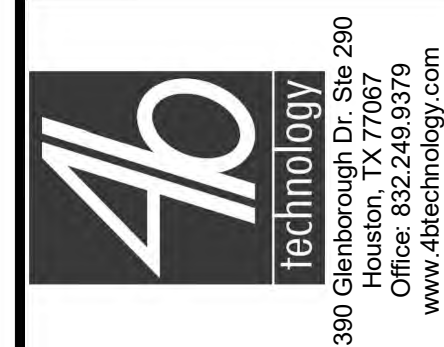
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**NO SCOPE ON THIS SHEET**



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**TY151**

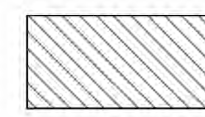
SECURITY RCP - LEVEL 1

SECURITY RCP - LEVEL 1 **A1**  
 1/8" = 1'-0"




CAMERA SCHEDULE		
DEVICE NUMBER	HEIGHT	DETAIL
CM-601	8'-0" AFF	TY501 / A1
CM-602	8'-0" AFF	TY501 / A1
CM-603	8'-0" AFF	TY501 / A1
CM-604	8'-0" AFF	TY501 / A1

**LEGEND**

 NOT IN SCOPE

**KEYNOTES**

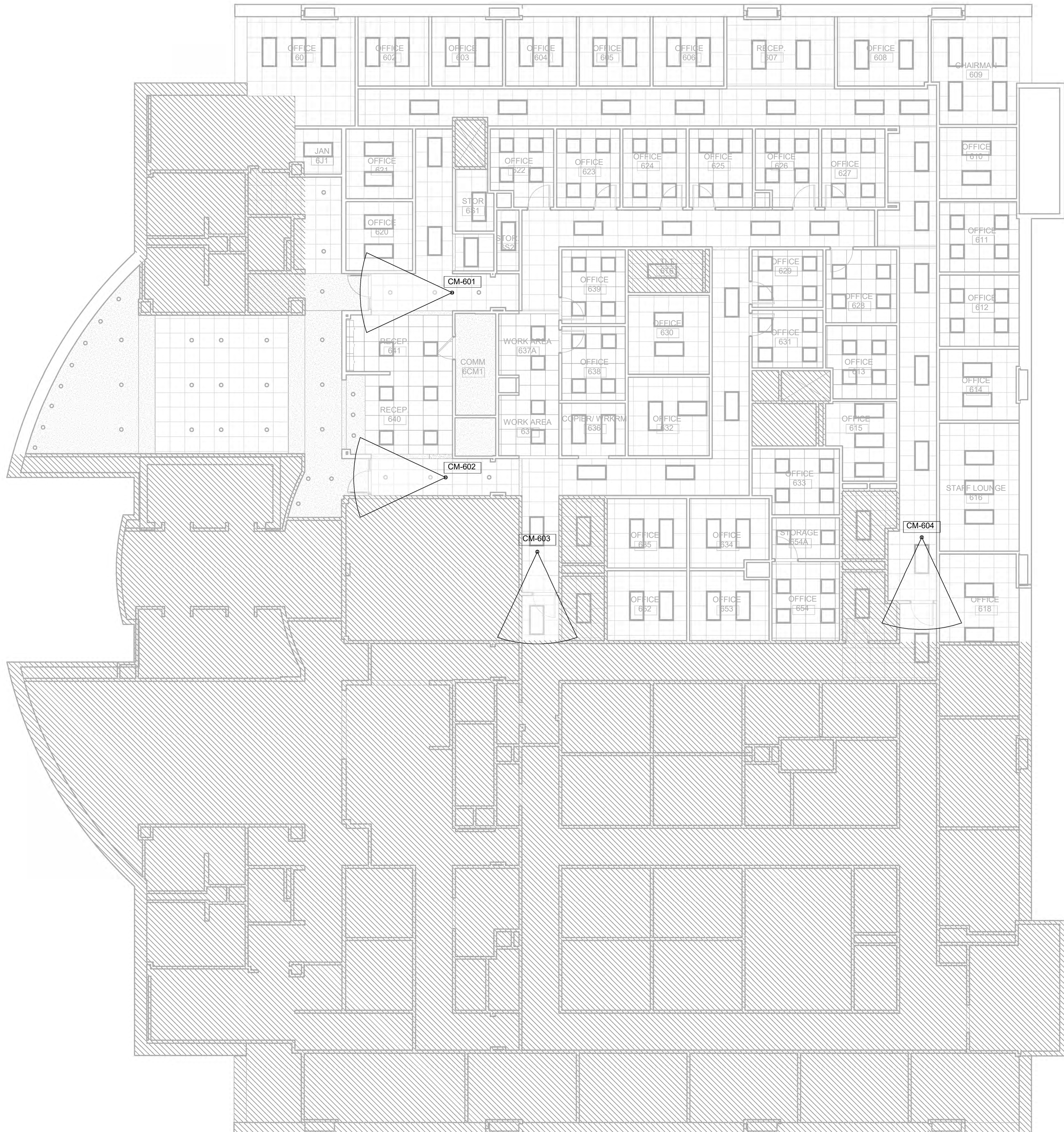


**GENERAL NOTES**

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UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER  
**HEALTH PAVILION 1ST AND 6TH FLOOR RENOVATION**  
 855 Montgomery St, Fort Worth, TX 76107



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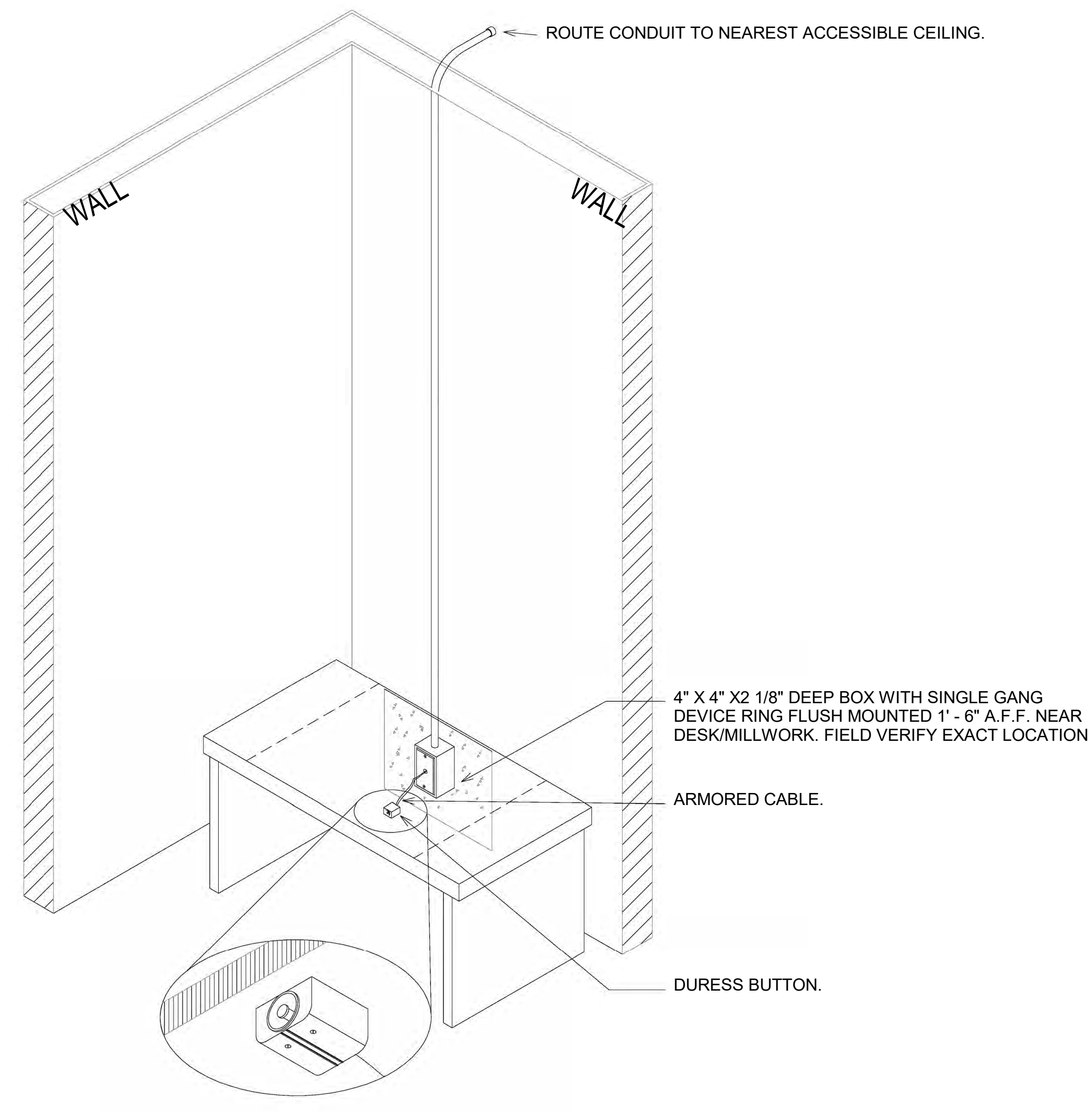
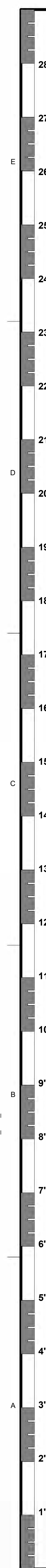
REVISIONS		
NO	DESCRIPTION	DATE

SECURITY RCP - LEVEL 6 A1  
 1/8" = 1'-0"

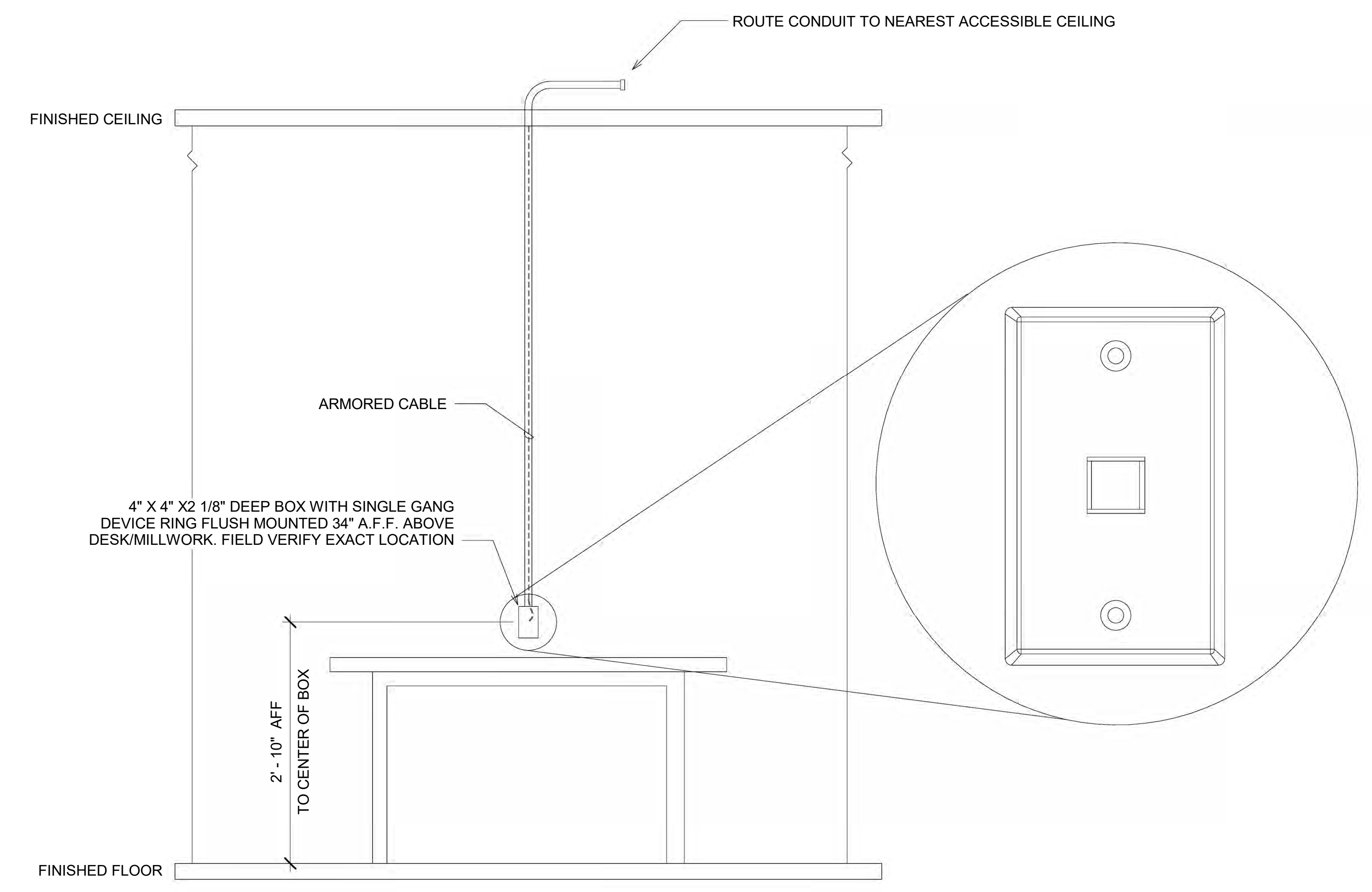
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SECURITY RCP - LEVEL 6

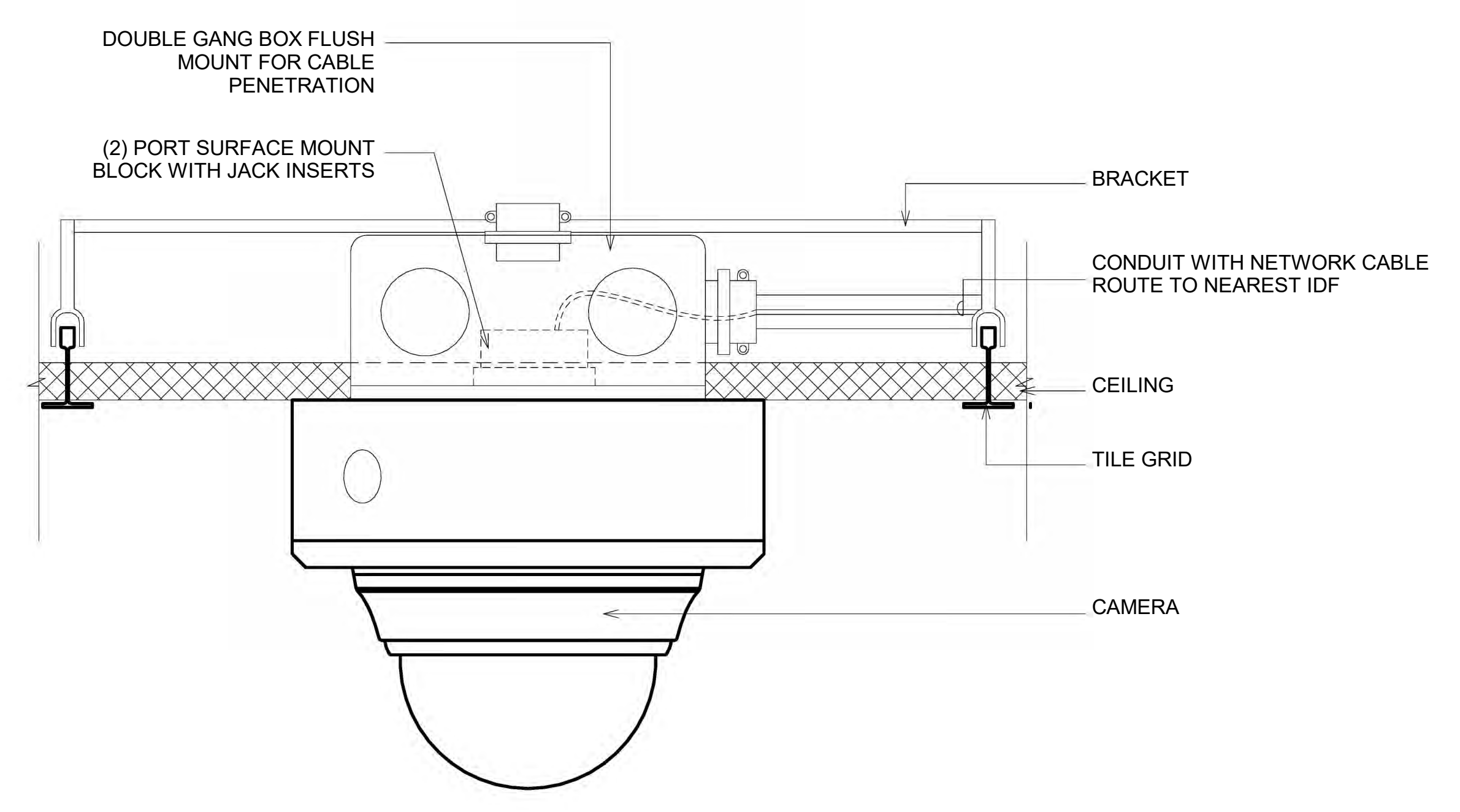
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UNDER DESK DOOR RELEASE DETAIL A2  
NTS



WALL MOUNTED DOOR RELEASE DETAIL B1  
NTS



CAMERA DETAIL - CEILING MOUNT A1  
NTS



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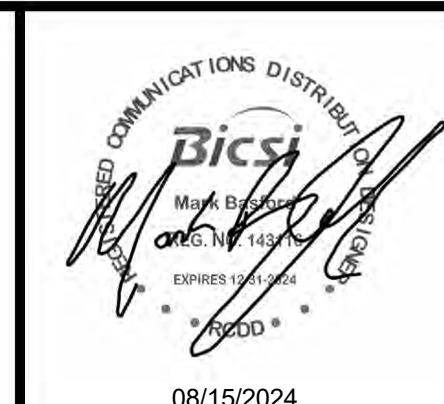
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SECURITY DETAILS



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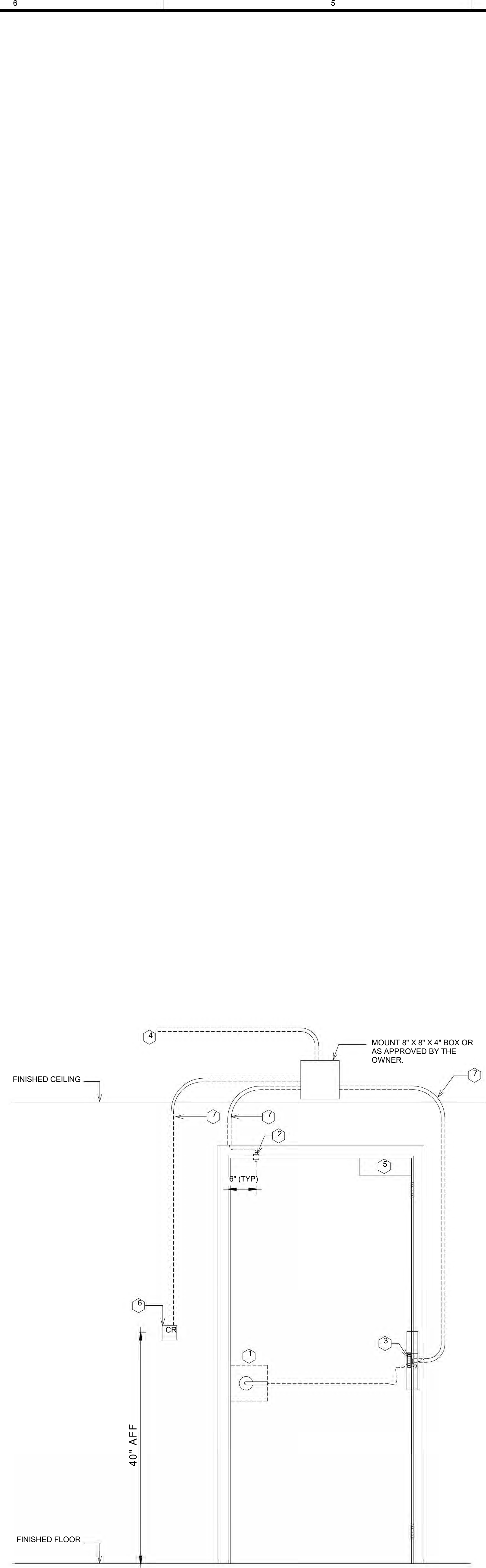
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NO	DESCRIPTION	DATE

TY502

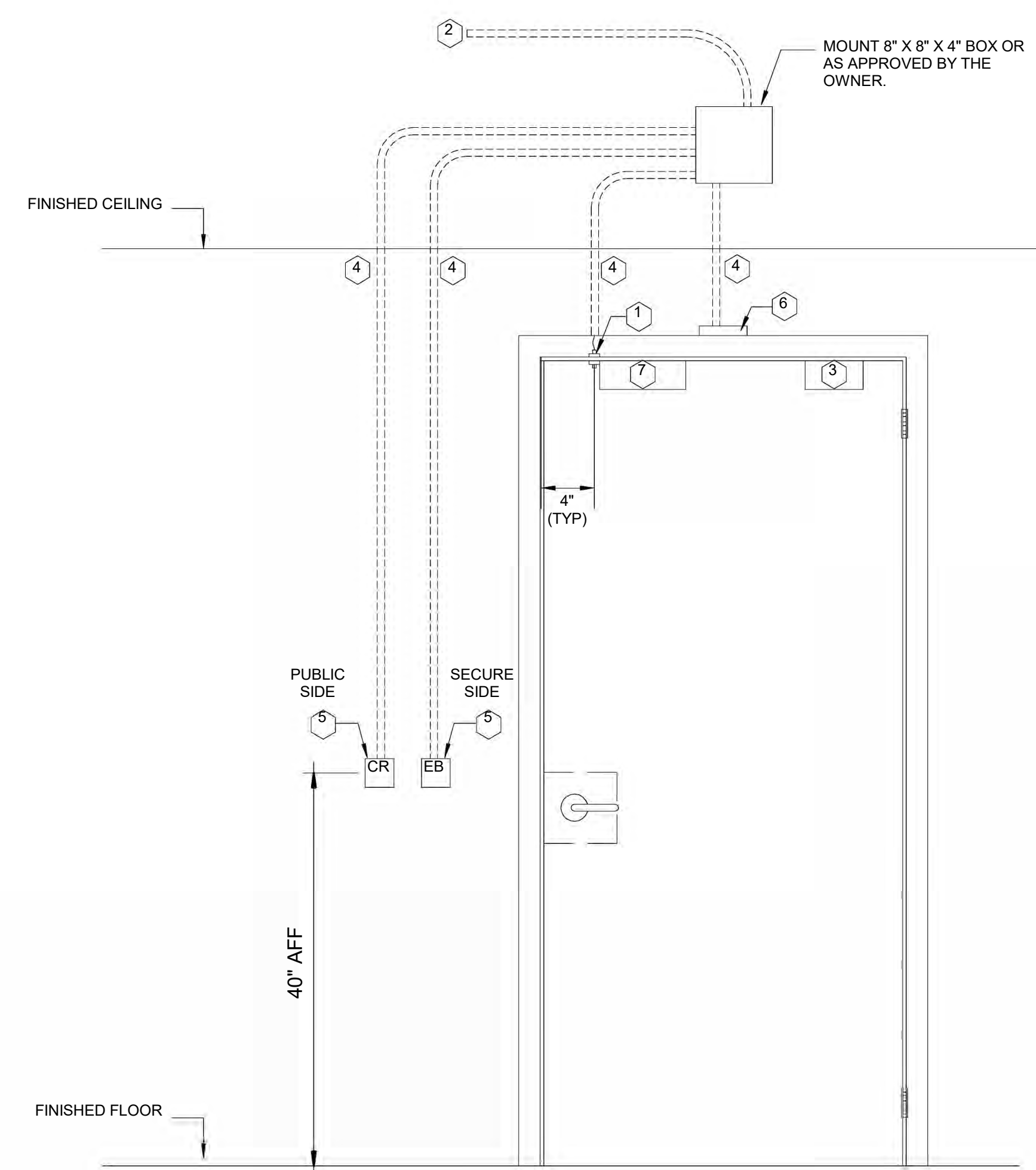
SECURITY DOOR  
DETAILS

TreanorHL NO. 0698.24010



1. ELECTRONIC LOCK (BY DIV. 8)
2. DOOR CONTACT (FLUSH MOUNT)
3. ELECTRIC POWER TRANSFER (BY DIV. 8)
4. 1" CONDUIT TO ASSIGNED IDF, TERMINATE CABLES INTO ACCESS CONTROL PANEL
5. DOOR CLOSER (BY DIV. 8)
6. DOUBLE GANG BOX WITH SINGLE GANG MUD RING
7. EMT CONDUIT MIN. 3/4"

SINGLE DOOR ELECTRIC MORTISE: READER IN / FREE OUT  
NTS A2



1. DOOR CONTACT (FLUSH MOUNT)
2. 1" CONDUIT TO ASSIGNED IDF, TERMINATE CABLES IN SECURITY PANEL
3. DOOR CLOSER (BY DIV. 8)
4. EMT CONDUIT MIN. 3/4"
5. DOUBLE GANG BOX WITH SINGLE GANG MUD RING
6. PIR REQUEST TO EXIT
7. MAGNETIC LOCK

SINGLE MAGLOCK: READER IN / EXIT BUTTON PIR REQUESTS TO EXIT OUT  
NTS A1

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