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GENERAL MECHANICAL SYMBOLS	HVAC SYMBOLS	PIPING SYMBOLS																																																																																																																																																																																																																																																																				
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Intermountain Healthcare
 Primary Children's Hospital
 Ryan Seacrest Studio and Gift Shop Relocation

100 Mario Capecchi Dr.
 Salt Lake City, UT 84113



FIRE PROTECTION GENERAL NOTES

- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED, IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS. COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, AND NFPA.
- THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

PLUMBING GENERAL NOTES

- UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/8" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT. VERIFY ALL SLOPING WITH LOCAL CODES.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
- PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
- COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS.
- CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
- PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
- CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
- LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
- INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
- INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
- MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
- COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
- SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
- HOSE BIBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
- LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
- FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
- FIELD VERIFY ALL NEW WATER, WASTE AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
- WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR TO BE 2" MINIMUM.
- INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING:
 - SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
 - LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.
 - LOCATE AT THE BASE OF EACH VERTICAL STACK.

MECHANICAL GENERAL NOTES

- COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
- SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
- PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
- INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE. SEE DETAILS, TYPICAL.
- DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
- PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
- PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
- PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
- WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
- AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE EQUIPMENT TAG TO MATCH SCHEDULE. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
- PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MINIMUM 24" X 24" .
- FLEX DUCT IS REQUIRED FOR ALL DIFFUSERS AND GRILLES INSTALLED IN LAY-IN CEILINGS. FOR DIFFUSERS AND GRILLES IN HARD-LID CEILINGS, THE DUCTWORK SHALL BE EXTENDED ALL THE WAY TO THE DIFFUSER AND SHALL BE CONNECTED WITH A HARD CONNECTION OR A FLEX DUCT CONNECTION WITH A MUD RING AND LAY-IN DIFFUSER AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS DOOR.
- SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
- CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF. A MINIMUM OF 8" FROM LIGHT SWITCH, UNLESS OTHERWISE NOTED ON THE ARCHITECT'S ELEVATIONS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
- REFER TO MECHANICAL PIPING OR ZONING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPE SHALL BE TYPE "C" COPPER UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
- PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT THAT IS FLOOR MOUNTED. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
- THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

MECHANICAL PIPING GENERAL NOTES

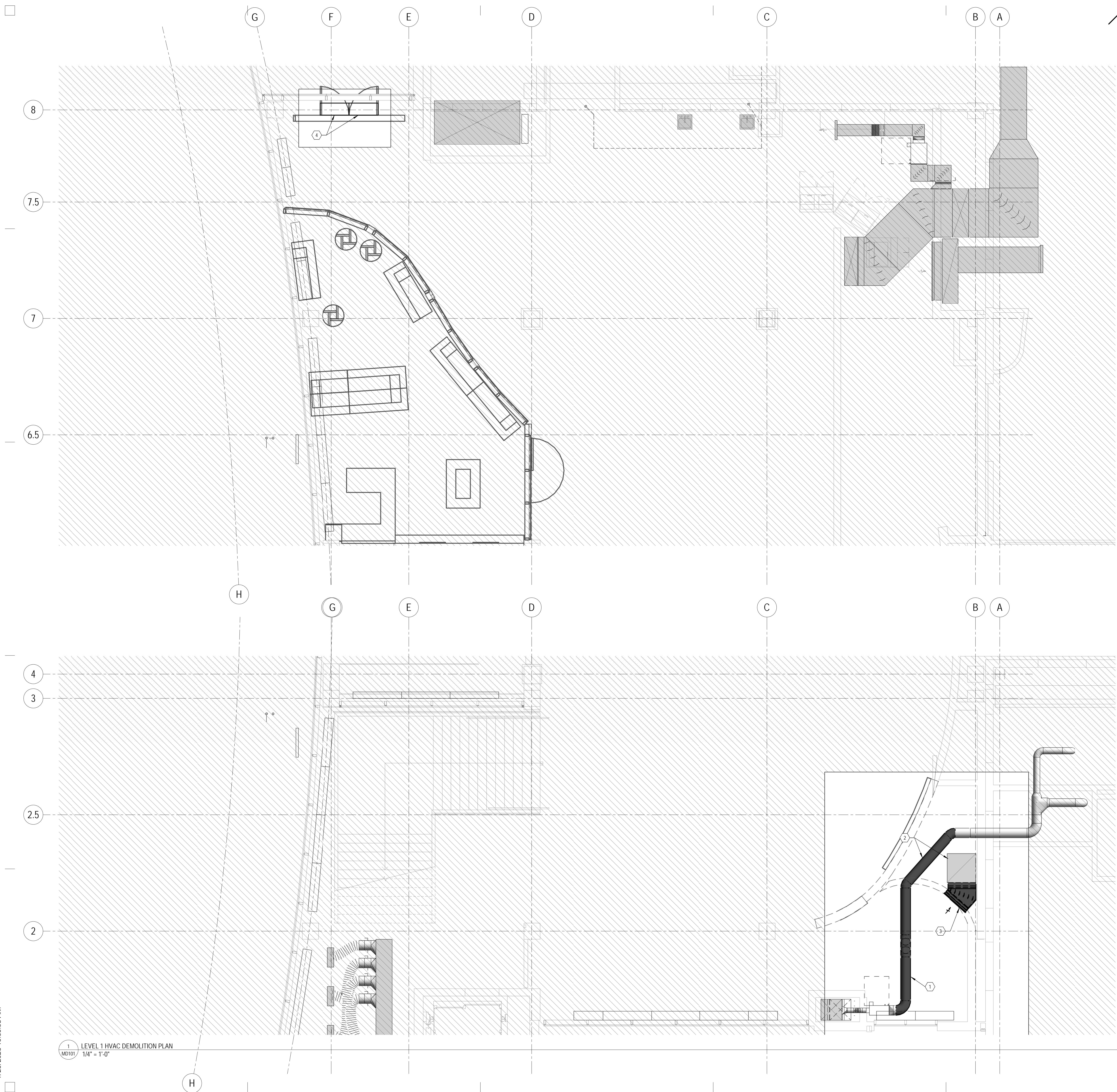
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- UNLESS OTHERWISE NOTED, ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- PROVIDE AIR VENT AT HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION AND TAGGED.
- PROVIDE ISOLATION VALVES AT EACH EXISTENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
- COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL PLANS OR SPECIFICATIONS.

PROJECT GENERAL NOTES

- THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
- REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
- THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVERS AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES, AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
- WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
- COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
- THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
- FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
- LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
- COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANS IF REQUIRED UNDER PIPING.
- FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. REFER TO SPECIFICATION.
- PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
- REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
- ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
- INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
- LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
- THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- IF CONTRACTOR ENCOUNTERS MATERIAL, WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- DETAILS REFERENCE ALL SHEETS.
- INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.
- ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY WASTE, ROOF DRAIN, CAMPUS CHILLED OR HOT WATER, AND ANY OTHER UTILITY SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
- LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS, WHERE LOCATED ABOVE HARD CEILING PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24" X 24". COORDINATE EXACT LOCATION AND STYLE WITH ARCHITECT. EQUIPMENT SHALL BE LOCATED IN THE CEILING CAVITY SO IT CAN BE SAFELY SERVICED FROM SOMEONE STAND ON A LADDER PLACED BELOW THE CEILING ACCESS.
- WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL, PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
- CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

NOTE

ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.



- KEYNOTES**
- 1 LOW PRESSURE SUPPLY DUCT IS TO BE REMOVED AND RELOCATED. SEE SHEET MD101.
 - 2 ELEMENTS SHOWN DARK ARE TO BE REMOVED. ELEMENTS SHOWN LIGHT ARE TO REMAIN, TYPICAL.
 - 3 EXISTING RETURN AIR GRILLES AND BRANCHES ARE TO BE REMOVED BACK TO RETURN MAIN. NEW RETURN AIR GRILLES ARE TO BE RECONNECTED. SEE SHEET MD101.
 - 4 EXISTING ELECTRIC AIR CURTAINS IN VESTIBULE ARE TO BE REMOVED.



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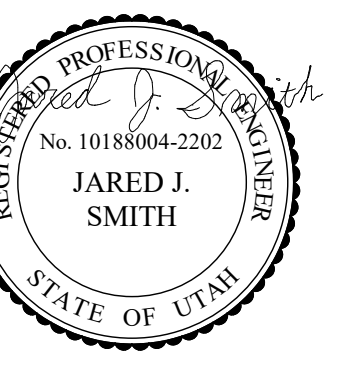
LEVEL 1
 MECHANICAL
 DEMOLITION
 PLAN

MD101



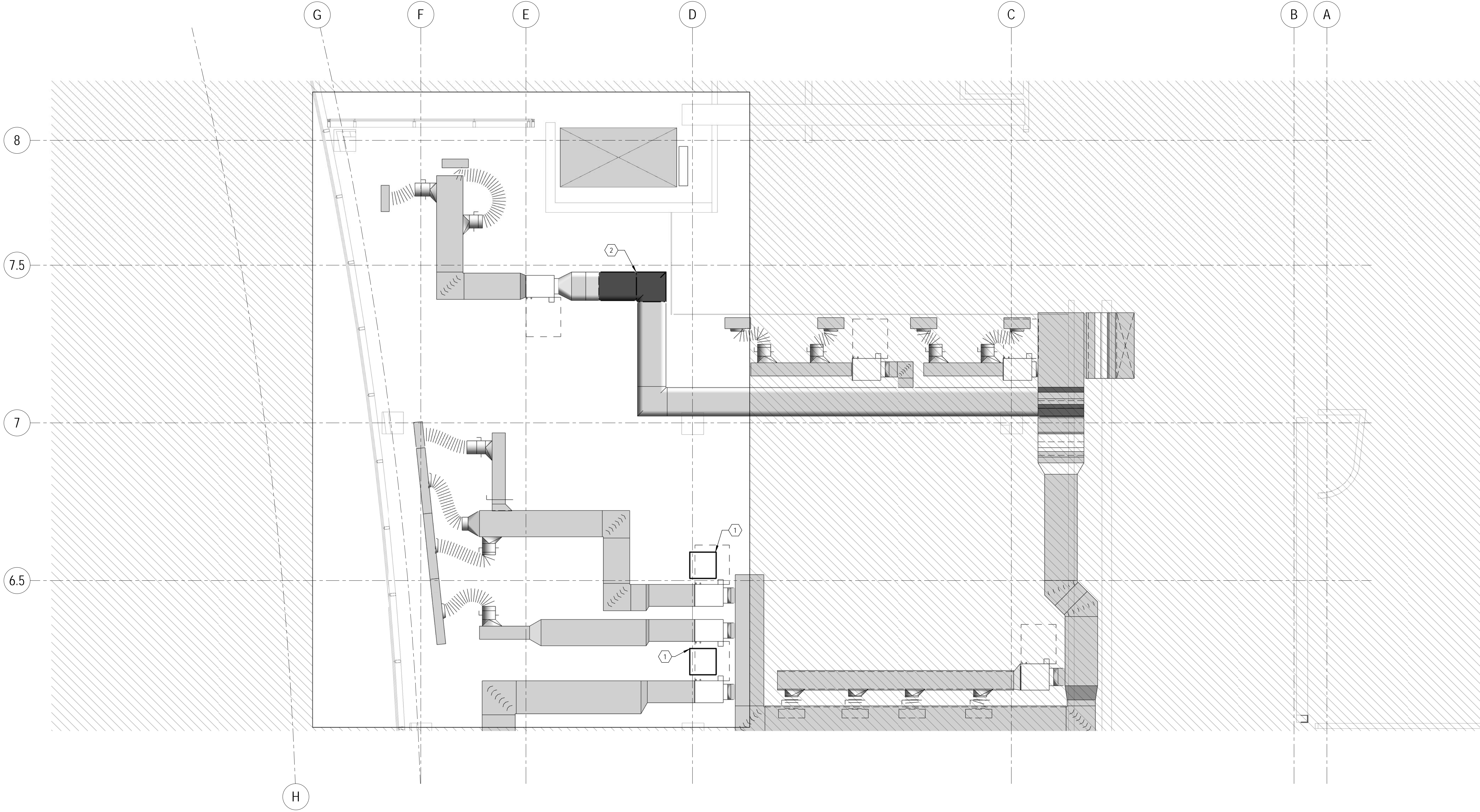
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KEYNOTES

- 1 EXISTING ACCESS PANEL IS TO BE REMOVED AND REPLACED WITH 24X18 ACCESS PANEL. SEE MECHANICAL DRAWINGS.
- 2 EXISTING DUCTWORK IS TO BE REMOVED AND RECONFIGURED. SEE SHEET M102.



1 LEVEL 2 HVAC DEMOLITION PLAN
MD102 1/4" = 1'-0"

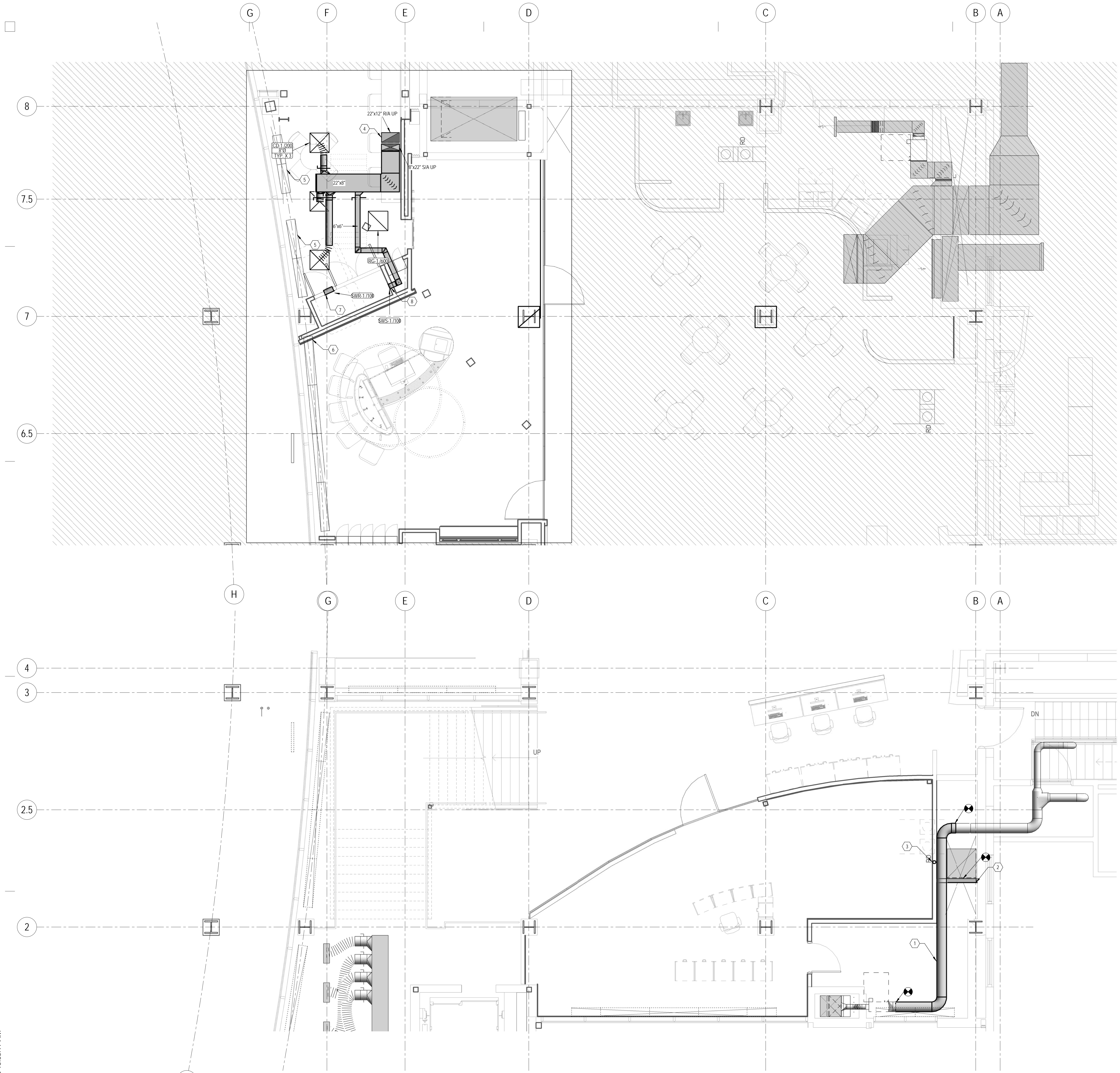
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LEVEL 2
MECHANICAL
DEMO PLAN

MD102



- KEYNOTES**
- 1 PROVIDE AND INSTALL NEW PRESSURE DUCTWORK AS SHOWN. COORDINATE ROUTING OF DUCTWORK WITH NEW WALL AND EXISTING CONDITIONS.
 - 2 PROVIDE AND INSTALL TWO NEW SIDE WALL RETURN AIR GRILLES AND RECONNECT TO BOTH RETURN AIR BRANCHES.
 - 3 EXISTING 3" ROOF DRAIN DROPS BELOW FLOOR AT LOCATION SHOWN. ROUTE NEW SUPPLY AIR DUCT IN BETWEEN ROOF DRAIN PIPE AND RETURN AIR MAIN.
 - 4 RETURN AIR DUCT IS TO TERMINATE INTO OPEN CEILING CAVITY OF OFFICE SPACE.
 - 5 EXISTING RECESSED FINNED TUBE IN FLOOR. EXISTING BALANCING VALVE IS TO BE REPLACED WITH 1/2" BALANCING VALVE. EXISTING FINNED TUBE IS TO BE REBALANCED TO .25 GPM.
 - 6 EXISTING FLOOR REGISTER IS TO BE CUT AS NEEDED IN ORDER TO INSTALL WALL REGISTER IS TO BE CUT AS NEEDED AND INSTALLED NEXT TO NEW WALL.
 - 7 PROVIDE AND INSTALL RETURN AIR GRILLE. GRILLE IS TO TERMINATE INTO CEILING CAVITY.
 - 8 PROVIDE AND INSTALL LOW WALL SUPPLY AIR DIFFUSER. DIFFUSER IS TO BE MOUNTED 8" ABOVE FINISHED FLOOR.



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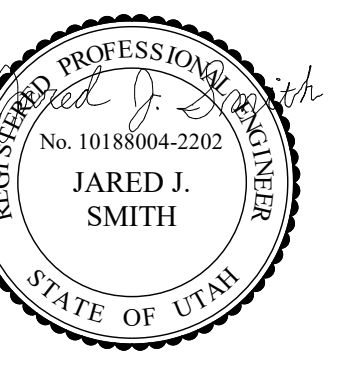
**LEVEL 1
 MECHANICAL
 PLAN**

M101

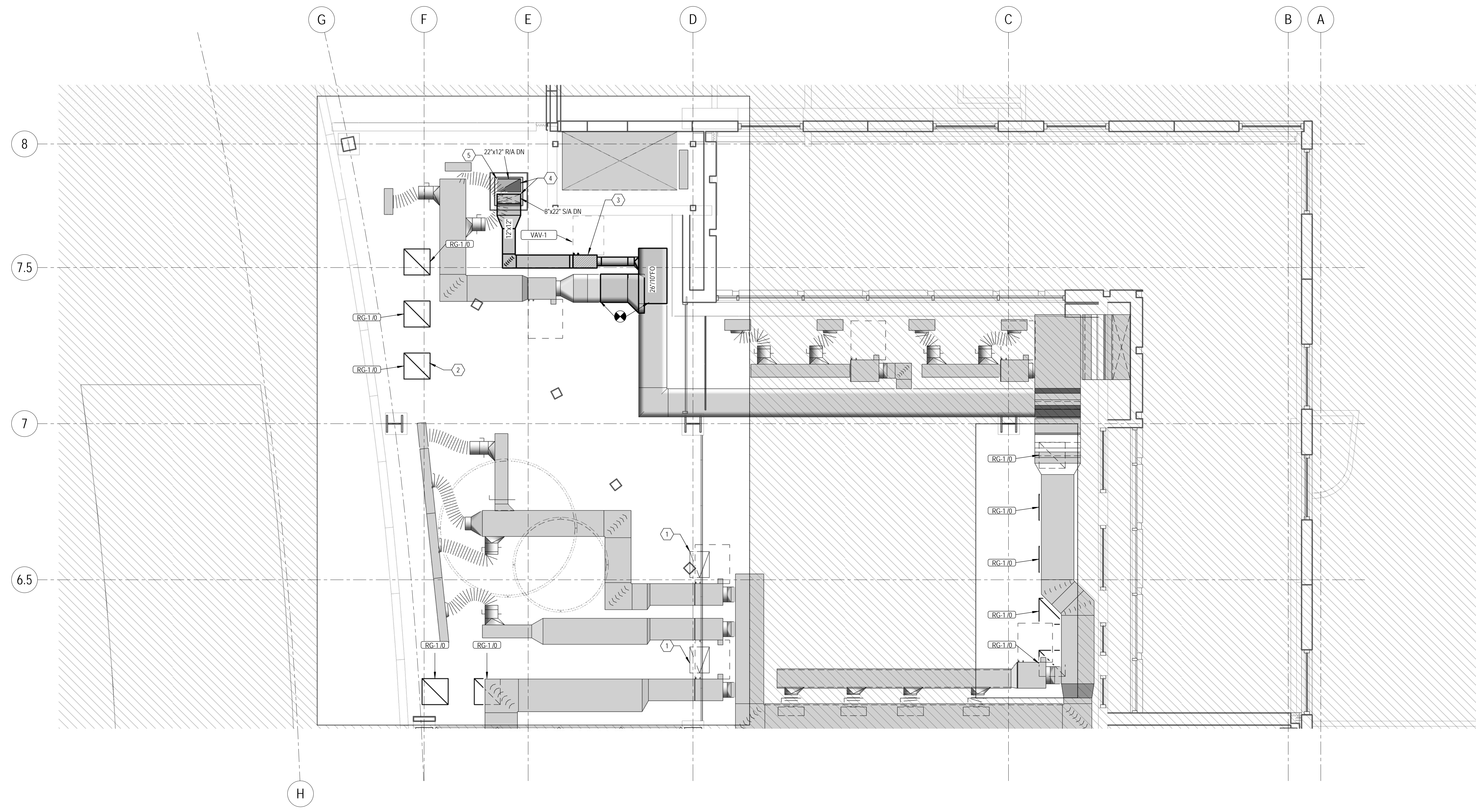
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1 LEVEL 1 HVAC PLAN
 M101 1/4" = 1'-0"





- KEYNOTES**
- 1 PROVIDE AND INSTALL 24X18 ACCESS PANEL AT VAV BOXES AS SHOWN.
 - 2 OPEN RETURN AIR GRILLES INTO CEILING CAVITY ARE TO BE PLACED INTO EXISTING CEILING, TYPICAL.
 - 3 PROVIDE AND INSTALL NEW VAV BOX AND PLACE AT LOCATION SHOWN.
 - 4 PROVIDE AND INSTALL NEW SUPPLY AND RETURN AIR DUCTWORK AND INSTALL IN ENCLOSURE AS SHOWN.
 - 5 RETURN AIR DUCT IS TO TERMINATE INTO EXISTING CEILING PLENUM.



1 LEVEL 2 HVAC PLAN
M102 1/4" = 1'-0"

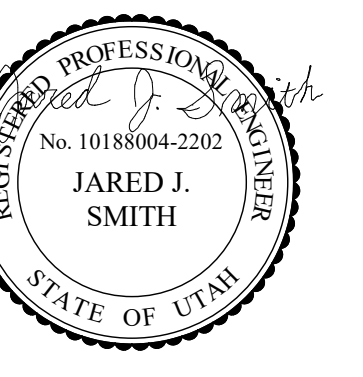
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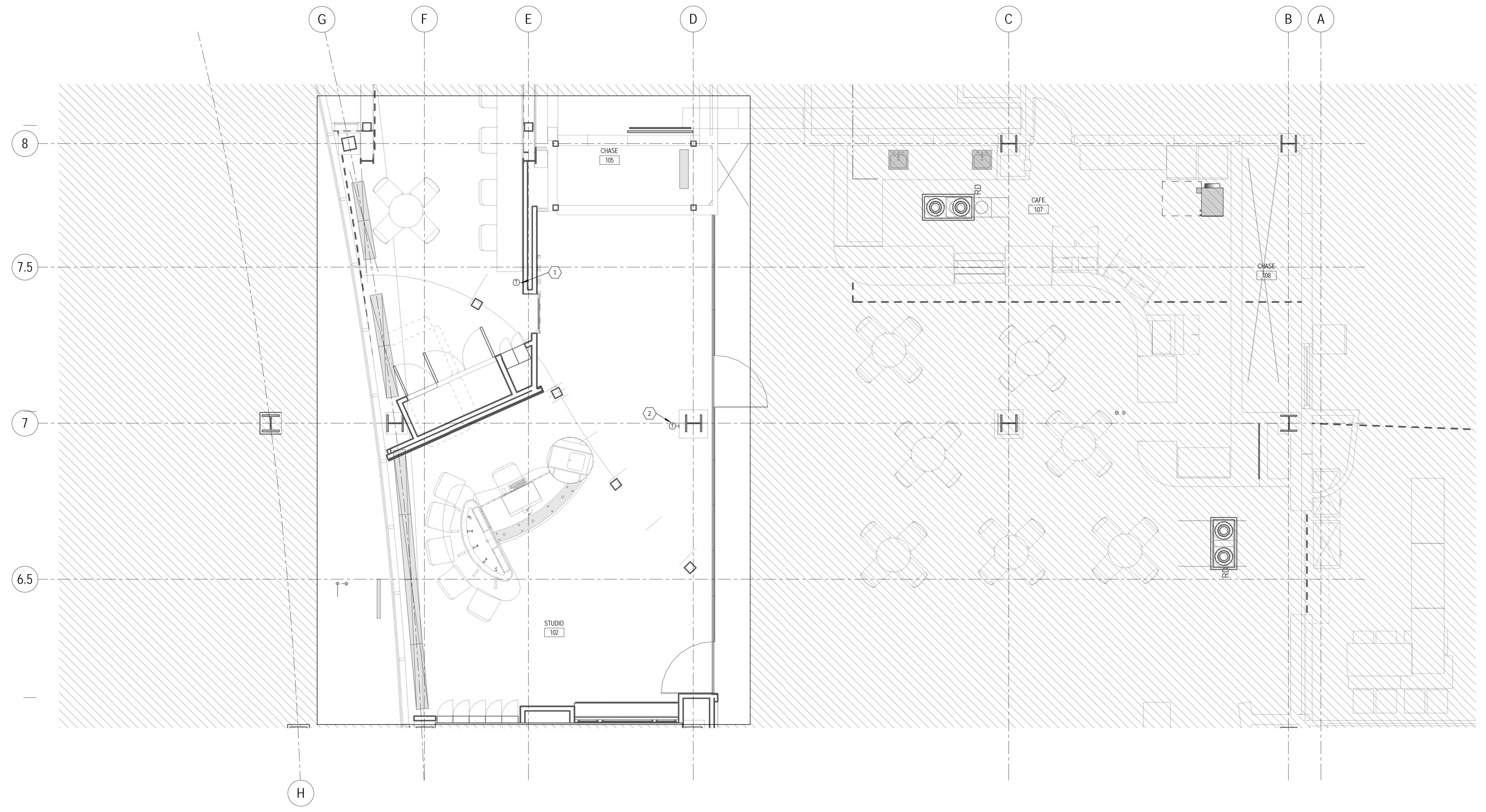
LEVEL 2
MECHANICAL
PLAN

M102



KEYNOTES

- 1 PROVIDE AND INSTALL NEW THERMOSTAT. TIE THERMOSTAT TO ASSOCIATED VAV BOX SERVING OFFICE SPACE.
- 2 PROVIDE AND INSTALL NEW THERMOSTAT. TIE THERMOSTAT TO ASSOCIATED EXISTING VAV BOXES SERVING SEACREST STUDIO SPACE.

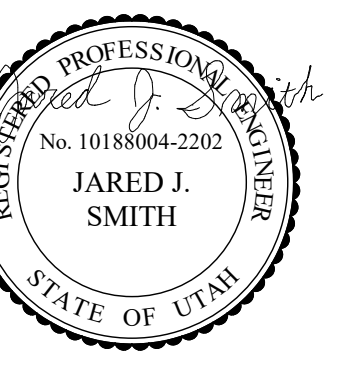


1 LEVEL 1 MECHANICAL PIPING PLAN
M201
1/4" = 1'-0"

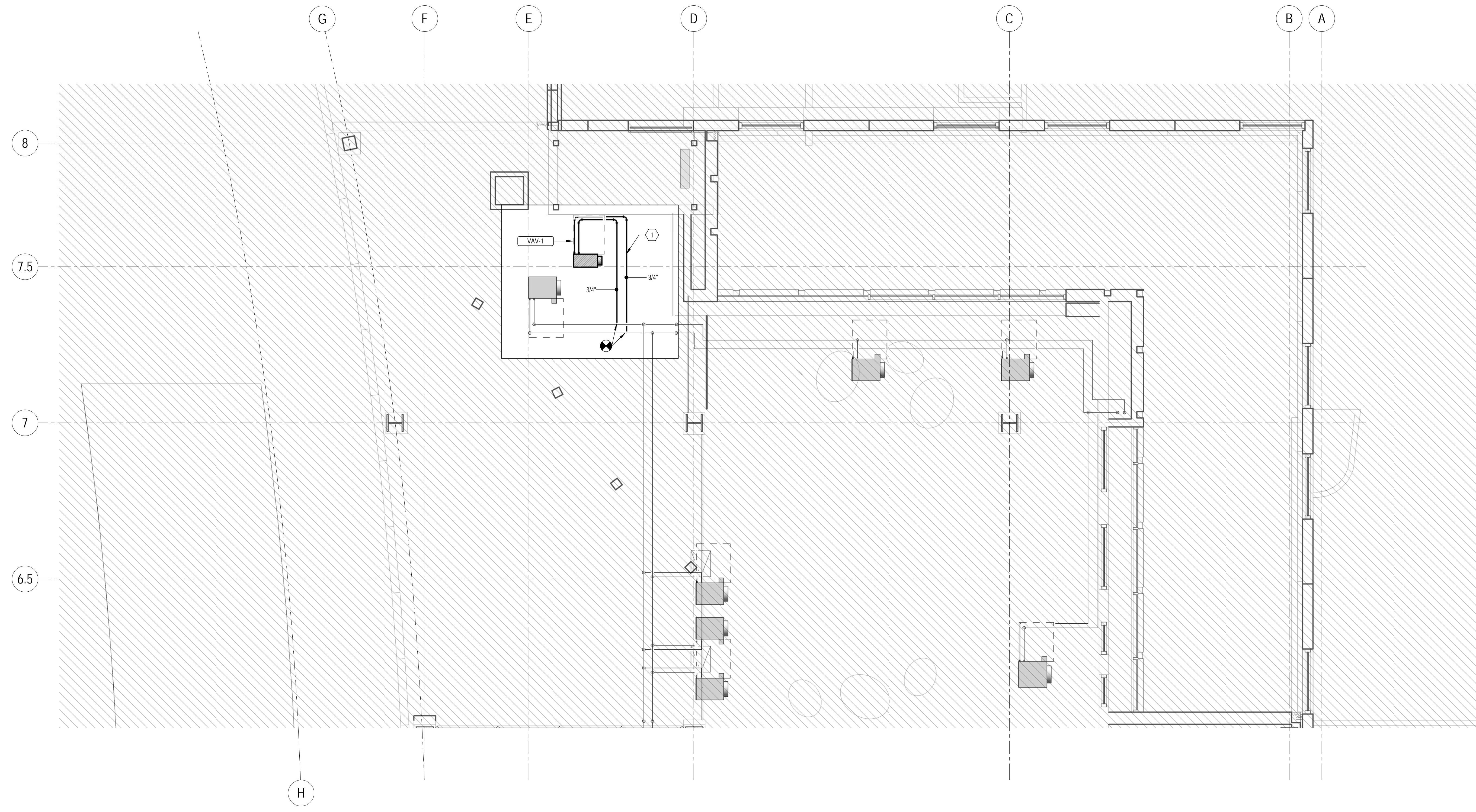
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KEYNOTES
1 PROVIDE AND INSTALL NEW HOT WATER PIPING AND CONNECT TO NEW VAV BOX. COORDINATE HOT WATER PIPING SHUT DOWN WITH HOSPITAL.



1 LEVEL 2 MECHANICAL PIPING PLAN
M202 1/4" = 1'-0"

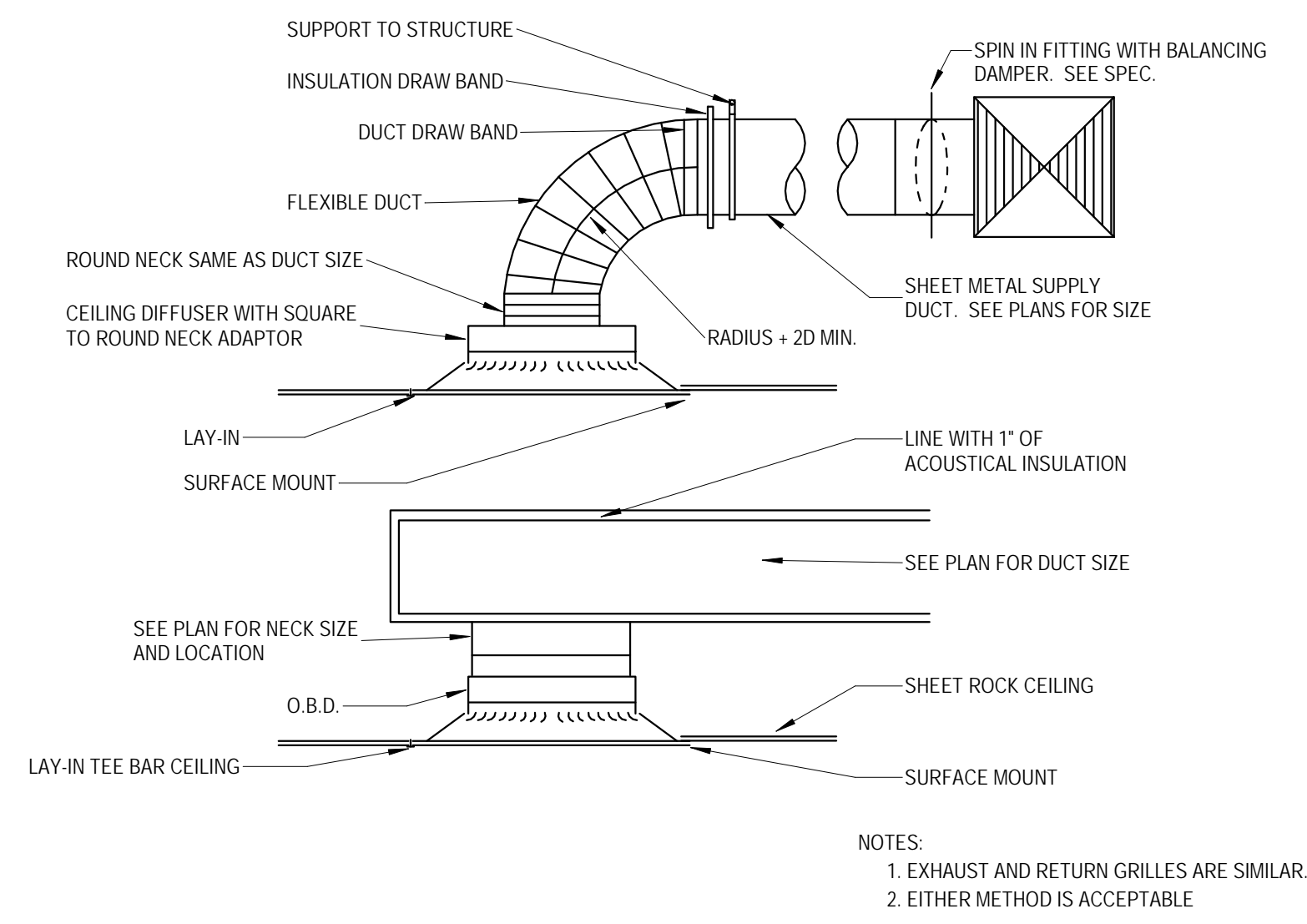
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Salt Lake City, UT 84113

NJRA Project # 22221.00
Bid Set Jan. 18, 2023

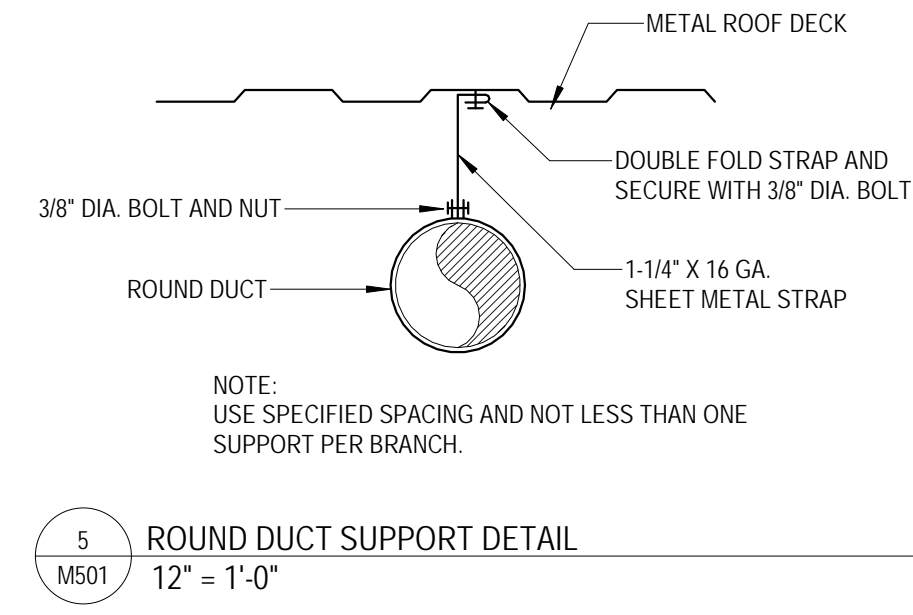
LEVEL 2
MECHANICAL
PIPING PLAN

M202



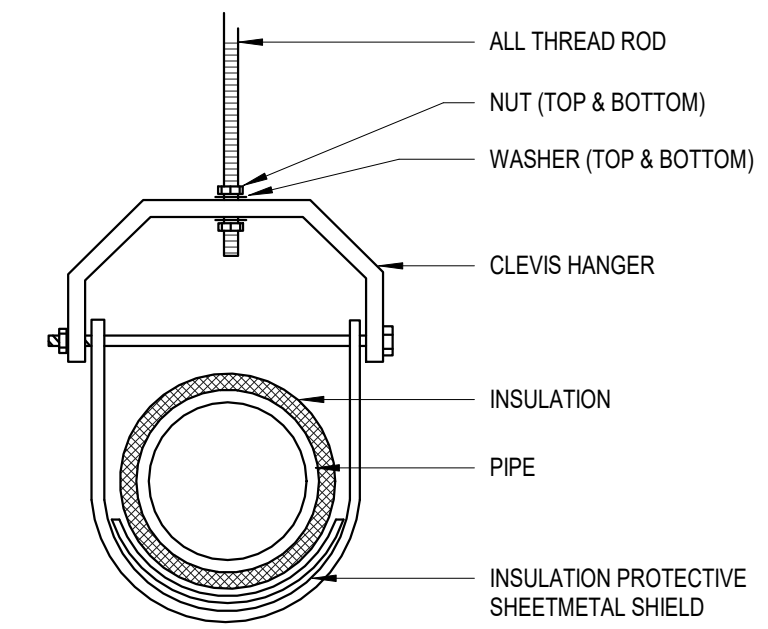
8 DIFFUSER CONNECTION DETAIL
M501 12" = 1'-0"

NOTES:
1. EXHAUST AND RETURN GRILLES ARE SIMILAR.
2. EITHER METHOD IS ACCEPTABLE.

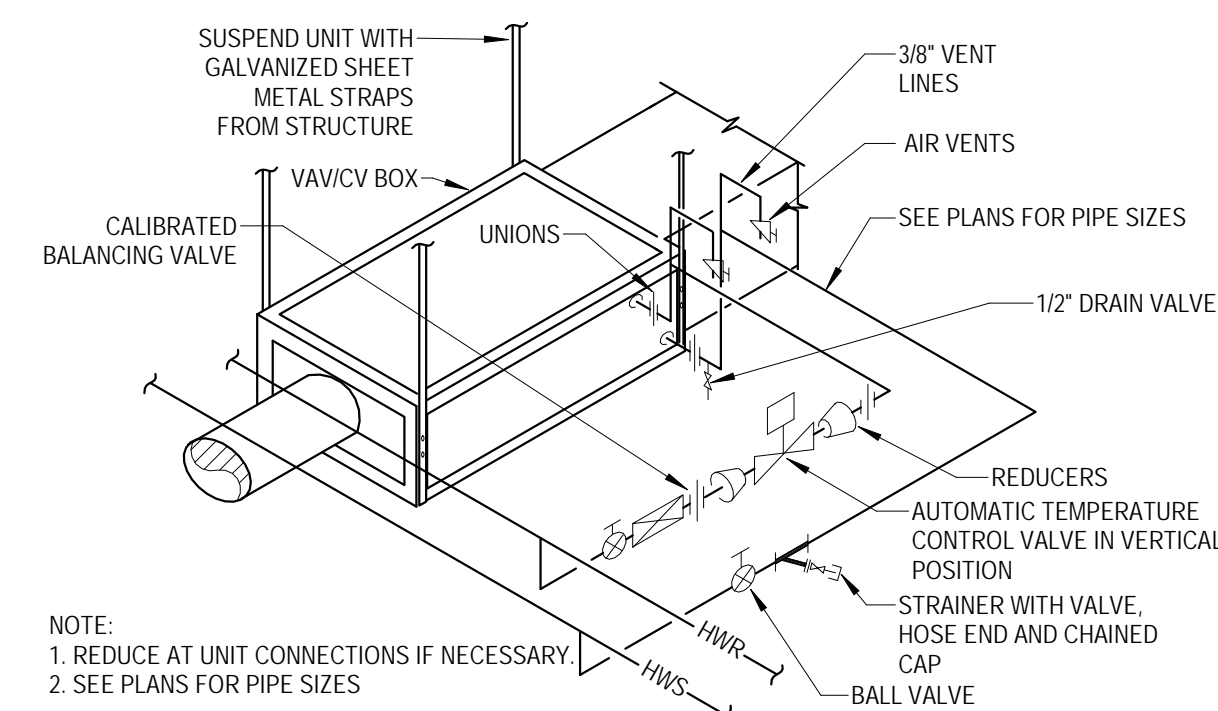


5 ROUND DUCT SUPPORT DETAIL
M501 12" = 1'-0"

NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

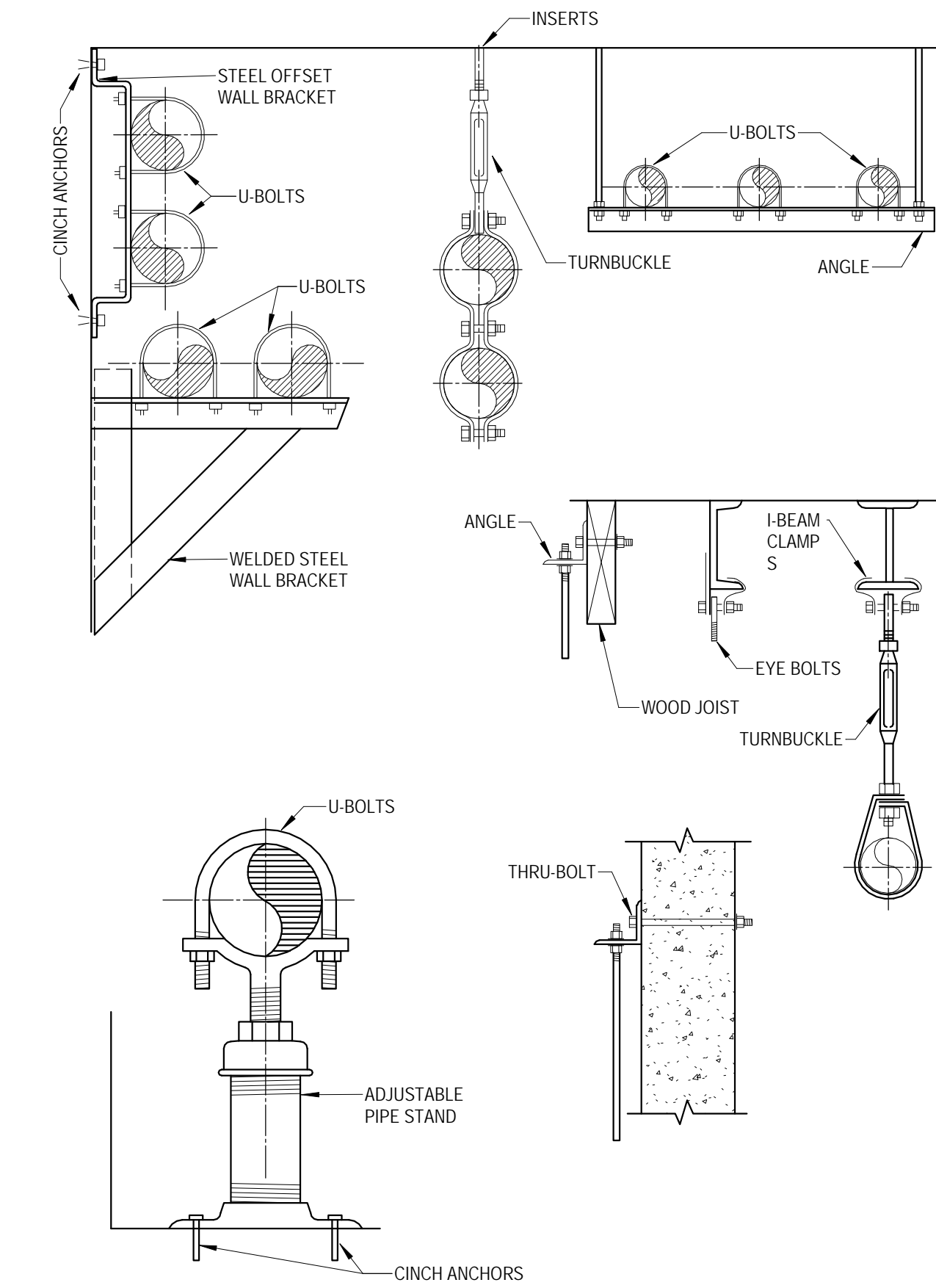


1 TYPICAL CLEVIS HANGER DETAIL
M501 12" = 1'-0"

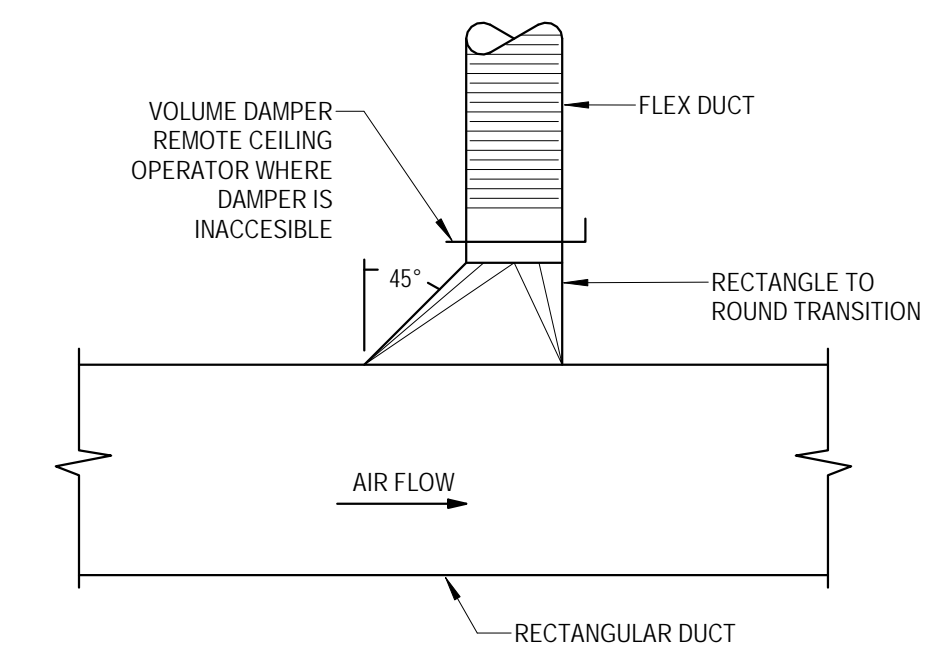


6 VAV/VCV TERMINAL UNIT WITH 2-WAY CONTROL VALVE DETAIL
M501 12" = 1'-0"

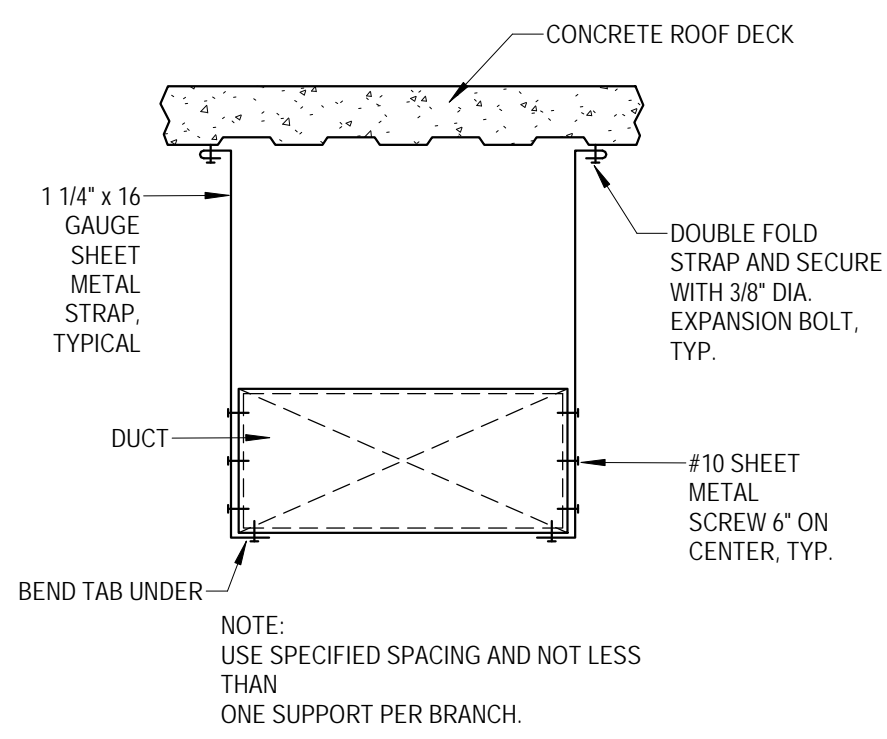
NOTE:
1. REDUCE AT UNIT CONNECTIONS IF NECESSARY.
2. SEE PLANS FOR PIPE SIZES.



2 TYPICAL PIPE SUPPORT DETAIL
M501 12" = 1'-0"



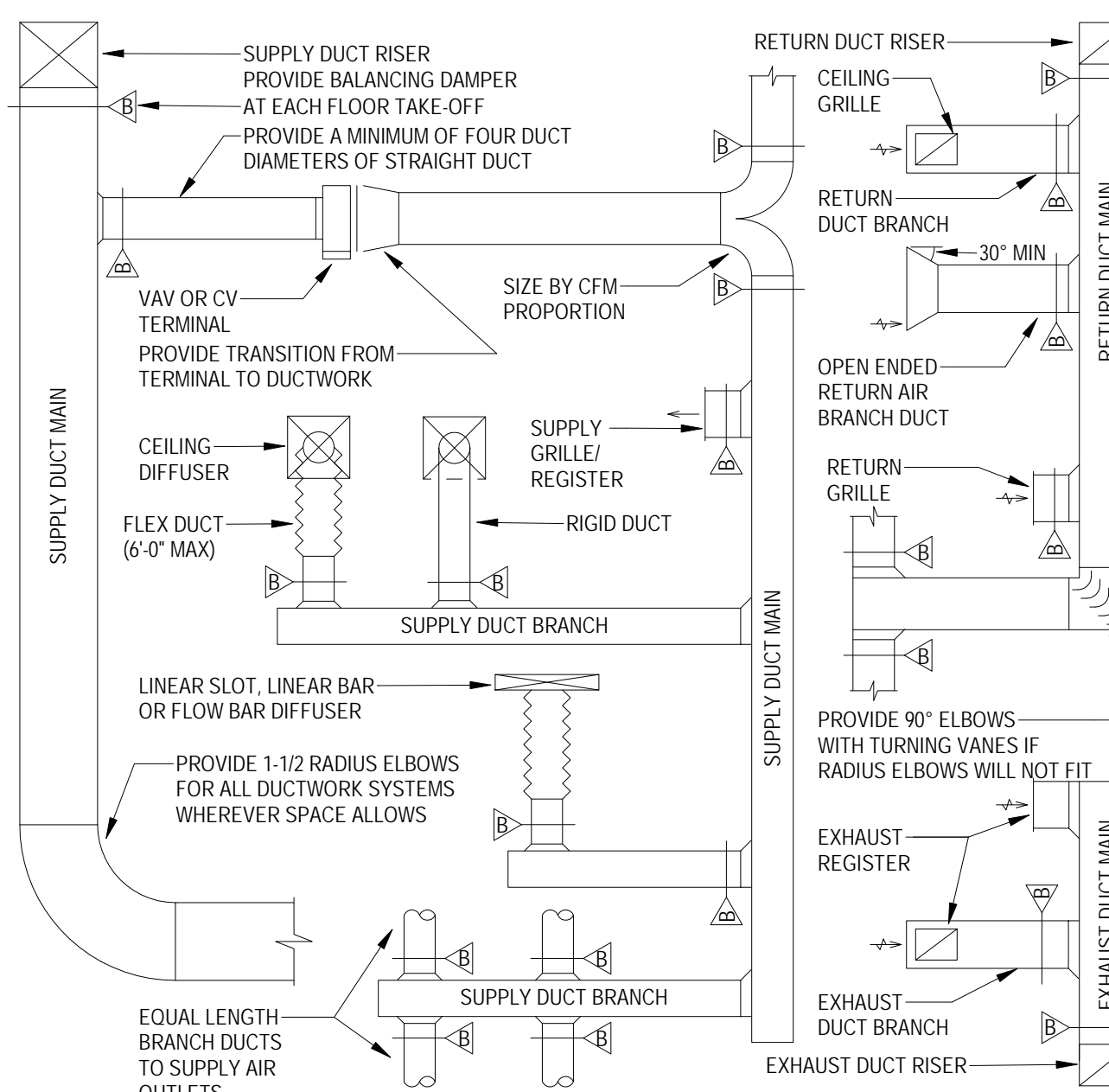
3 FLEX DUCT WITH HIGH EFFICIENCY FITTING DETAIL
M501 12" = 1'-0"



4 RECTANGULAR DUCT DETAIL
M501 12" = 1'-0"

NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

NOTES:
1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES.
2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES.
3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET.
4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS.
6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT.
7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS.



7 DUCTWORK INSTALLATION DIAGRAM
M501 NO SCALE



GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	SYSTEM	NECK			BLADE DESIGN			INSTALLATION		SPECIFICATION	NOTES	
						SIZE	WIDTH	HEIGHT	THICKNESS	SPACING	SINGLE	DOUBLE	ORIENTATION			BORDER TYPE
CD-1	PLAQUE FACE DIFFUSER	Tilus	OMNI-AA	3	S/A	8"								TYPE 3 (LAY-IN)	STEEL PLAQUE FACED DIFFUSER	
RG-1	PERFORATED DIFFUSER WITH DEFLECTORS	Tilus	PAR-AA	11		6"								TYPE 3 (LAY-IN)	PERFORATED DIFFUSER WITH FACE MOUNTED DEFLECTORS. GRILLES ARE TO BE OPEN TO CEILING CAVITY WITH NO DUCT COLLAR	
SWR-1	LOUVERED GRILLE	Tilus	350FL	1	R/A	12"	12"	1/8"	3/4"	35.0"		LONG	TYPE 1 (SURFACE)		ALUMINUM LOUVERED RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, LONG BLADES	
SWR-1	LOUVERED GRILLE	Tilus	350FL	1	R/A	36"	36"	1/8"	3/4"	35.0"		LONG	TYPE 1 (SURFACE)		ALUMINUM LOUVERED RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, LONG BLADES	
SWS-1	LOUVERED DOUBLE DEFLECTION GRILLE	Tilus	300FL	1	S/A	6"	6"	1/8"	3/4"	0.0"	0.0"	DOUBLE-LONG	TYPE 1 (SURFACE)		ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	

VAV BOX SCHEDULE

Identity Mark	Inlet Size Text	Cooling Airflow	Heating Airflow	Min Airflow	Entering Air Temperature	Leaving Air Temperature	S.P. Loss at Max CFM	Flow Rate	Entering Water Temperature	Leaving Water Temperature	Working Fluid	Head Loss Feet	Min. Number of Rows/Fits Per Inch	Valve Type	Pipe Diameter	NOTE
VAV-1	8"	700 CFM	420 CFM	145 CFM	52.0 °F	92.2 °F	0.41	1.5 GPM	160.0 °F	139.2 °F	WATER	0.475	2/10	2 Way Valve	0" - 0 3/4"	

SPLIT SYSTEM COOLING UNIT

INDOOR UNIT										OUTDOOR UNIT						REFRIG LINES		COMMENTS	
ID	MANUF.	MODEL	LOCATION	COOLING CAPACITY (BTU)	CFM RANGE	DIMENSIO... W" x H" x D"	WEIGHT (LBS.)	AMPS (MCA)	VOLTS/P...	ID	MANUF.	MODEL	DIMENSIO... W" x H" x D"	WEIGHT (LBS.)	AMPS (MCA)	VOLTS/P...	LIQUID		GAS
MSI-1	MITSUBISHI	PKA-A12LA	A/V CLOSET	12,000	265-455	36X11X12	28	1	208/1/60	MSO-1	MITSUBI...	PUY-A12NKA7	32X12X25	92	11	208/1/60	3/8	5/8	T-5

- CAPACITIES RATED AT THE FOLLOWING OUTDOOR CONDITIONS: COOLING - 95 DEG. F. D.B., 75 DEG. F. W.B.
- PROVIDE LOW AMBIENT CONTROL TO ALLOW COOLING OPERATION DOWN TO 0 DEG. F. D.B.
- R410A REFRIGERANT.
- SEE DRAWINGS FOR QUANTITIES AND LOCATION
- PROVIDE, INSTALL AND ROUTE REFRIGERANT PIPES PER MANUFACTURERS RECOMMENDATIONS.

Intermountain Healthcare
 Primary Children's Hospital
 Ryan Seacrest Studio and Gift Shop Relocation

100 Mario Capacechi Dr.
 Salt Lake City, UT 84113

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MECHANICAL
SCHEDULES

M601



MECHANICAL SHEET INDEX

GENERAL MECHANICAL SYMBOLS		FIRE PROTECTION SYMBOLS	
<p>REVISION NUMBER - SHOWN ON PLANS</p> <p>POINT WHERE NEW CONNECTS TO EXISTING</p> <p>NUMBER OF DETAIL ON SHEET</p> <p>NUMBER OF SHEET WHERE DETAIL APPEARS</p> <p>KEYNOTE</p> <p>CONTINUATION SYMBOL</p> <p>ROOM NAME AND NUMBER</p> <p>ITEM TO BE DEMOLISHED</p> <p>AREA NOT IN CONTRACT</p> <p>PIPE SIZE TAG (DIAMETER) ABOVE GROUND PIPING</p> <p>PIPE SLOPE TAG</p> <p>BELOW GROUND PIPING</p> <p>PIPE INVERT ELEVATION TAG</p> <p>EXISTING PIPE TAG</p> <p>PIPING BEING DEMOLISHED</p>		<p>FIRE PROTECTION DRY</p> <p>FIRE PROTECTION OTHER</p> <p>FIRE PROTECTION PRE-ACTION</p> <p>FIRE PROTECTION WET</p> <p>COMBINATION FIRE & DOMESTIC UPRIGHT</p> <p>PENDENT SPRINKLER HEAD</p> <p>RECESSED SPRINKLER HEAD</p> <p>CONCEALED SPRINKLER HEAD</p> <p>SPRINKLER HEAD 'D' REPRESENTS DRY SPRINKLER HEAD</p> <p>EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD</p> <p>OBSTRUCTION FROM DUCTWORK 48" AND GREATER</p> <p>PIPE DROP</p> <p>PIPE RISE</p> <p>PIPE TEE</p> <p>REDUCING 45 DEGREE TEE</p> <p>45 DEGREE TEE</p> <p>PIPE ACCESSORY TAGS</p> <p>2" DOM. WM DOMESTIC WATER METER</p> <p>2" BALANCING VALVE</p> <p>2" SHUTOFF 1/4 TURN BALL VALVE</p> <p>2" CHECK VALVE</p> <p>2" TMV 3-WAY MIXING VALVE</p> <p>2" M. CNTRL. MOTORIZED CONTROL VALVE</p> <p>2" 3-WAY CNTRL. VALVE</p> <p>2" 3-WAY MOTORIZED CONTROL VALVE</p> <p>2" PRV PRESSURE REDUCING VALVE</p> <p>3/8" SOLENOID REFRIGERANT SOLENOID VALVE</p> <p>2" BUTTERFLY BUTTERFLY VALVE</p>	
ABBREVIATIONS			
Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERTHROW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWIC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCD	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FD	FIRE DAMPER	RH	RELATIVE HUMIDITY
FDV	FIRE DEPARTMENT VALVE	R/A	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RW	RAIN WATER
FOR	FUEL OIL RETURN	SF	SQUARE FOOT
FOS	FUEL OIL SUPPLY	SA	SUPPLY AIR
FSM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TOR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LBHR	POUNDS PER HOUR	VTR	VENT THROUGH ROOF
LAT	LEAVING AIR TEMPERATURE	W	WASTE
LP	LOW PRESSURE	WB	WET BULB
LPS	LIQUEFIED PETROLEUM GAS	WCO	WALL CLEAN OUT
		WH	WALL HYDRANT

FIRE PROTECTION GENERAL NOTES

- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REROUTE ANY AND ALL FIRE PROTECTION PIPING, VALVING, SUPPORTS OR SYSTEMS, OTHERWISE WITHIN THE FIRE SUPPRESSION DISCIPLINE REGARDLESS OF WHO INSTALLED THEM OR WHEN THEY WERE INSTALLED. IN ORDER TO ACCOMMODATE MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SYSTEMS, COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING OR OTHER CONTRACTORS UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, AND NFPA.
- THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM. BRANCH LINE TO ENTER ROOM ABOVE DOOR.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

FIRE SPRINKLER PIPING SCHEDULE

NPS 1: SCHEDULE 40 OR THREADED THIN WALL, THREADED ENDS

NPS 2, 1 1/2 THRU 3: SCHEDULE 40 OR THREADED THIS WALL, GROOVED ENDS, OR THREADED ENDS.

NPS 2-1/2 THRU 4: SCHEDULE 40, GROOVED ENDS, WELDED OUTLETS.

NPS 6 AND LARGER: SCHEDULE 40 OR SCHEDULE 10, GROOVED FITTINGS, WELDED OUTLETS.

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

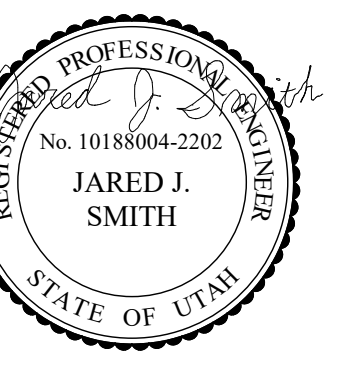
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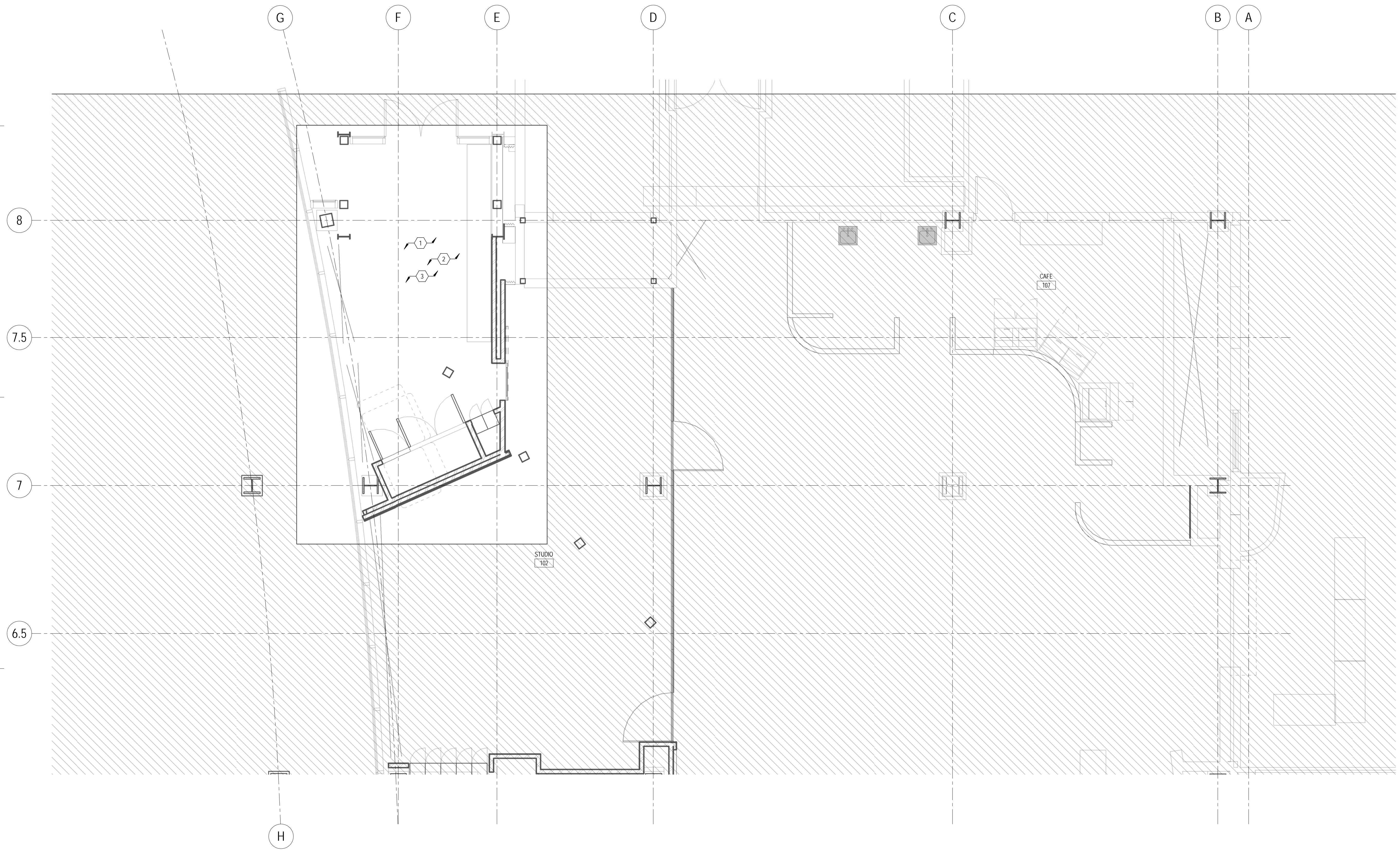
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FIRE PROTECTION TITLE SHEET

F001



- KEYNOTES**
- 1 FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.
 - 2 ALL SPRINKLERS IN THE OFFICE SPACE AREA SHALL BE PROVIDED WITH QUICK RESPONSE TYPE. SPRINKLERS SHALL EXTEND TO ALL WALLS OR SOFFIT BREAKS.
 - 3 FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.



F101 LEVEL 1 FIRE PROTECTION PLAN
1/4" = 1'-0"

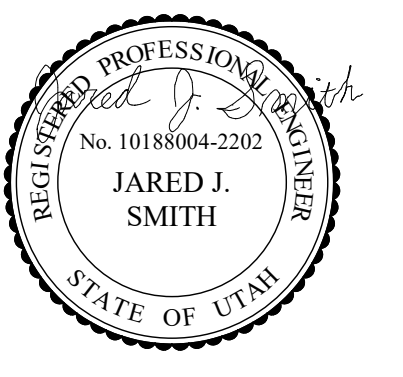
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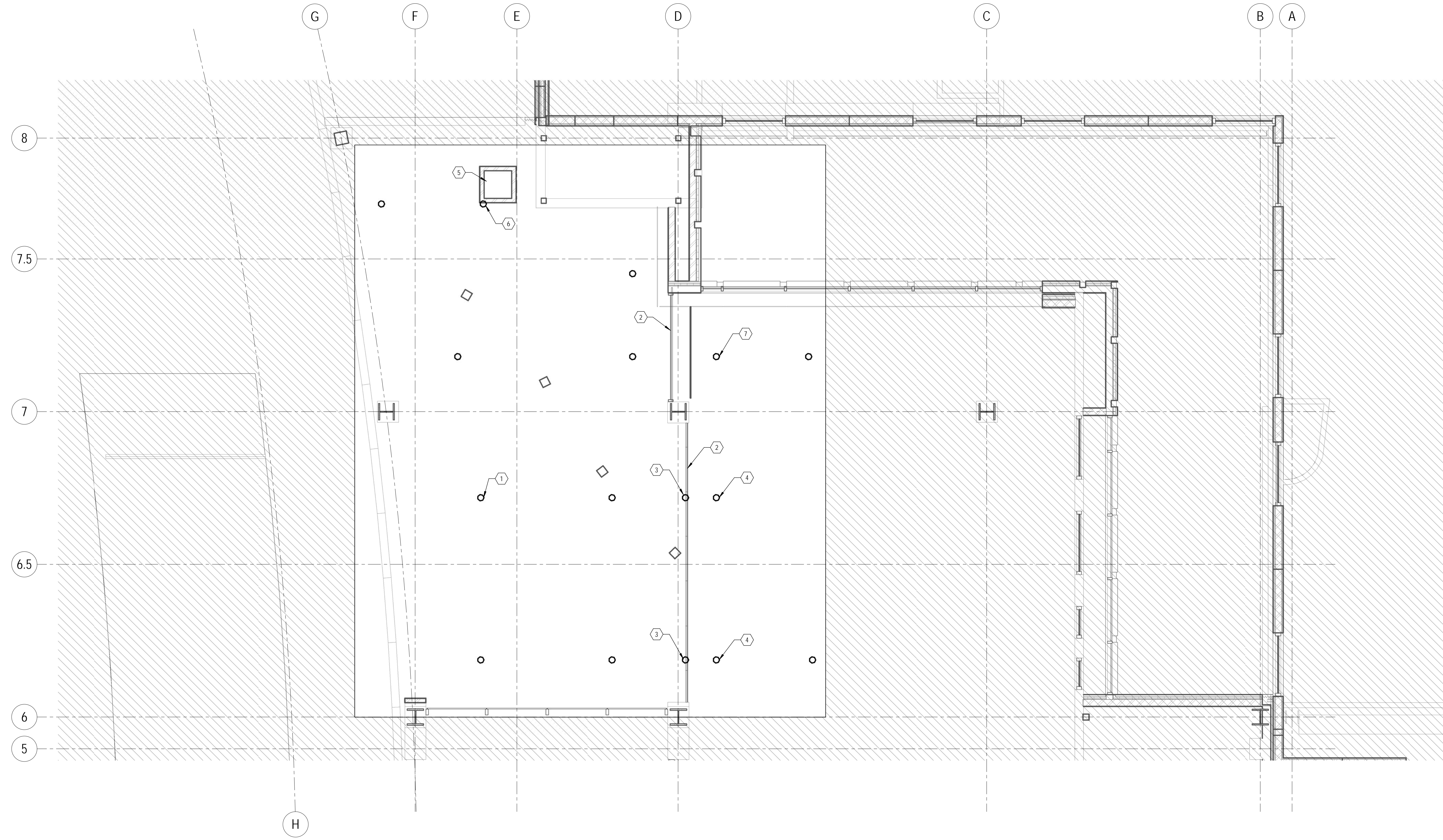
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LEVEL 1 FIRE
PROTECTION
PLAN

F101



- KEYNOTES**
- 1 APPROXIMATE EXISTING LOCATION OF EXISTING FLAT PLATE CONCEALED SPRINKLER HEAD, TYPICAL.
 - 2 NEW GLASS WALL THAT WILL RISE UP TO CEILING.
 - 3 EXISTING SPRINKLER HEAD IS TO BE REMOVED AND RELOCATED WITH NEW HEAD, SEE KEYNOTE #4.
 - 4 APPROXIMATE LOCATION OF NEW FLAT PLATE CONCEALED SPRINKLER HEADS TO FILL SPRINKLER COVERAGE DEFICIENCY CAUSED BY NEW GLASS WALL OBSTRUCTION. CONTRACTOR SHALL FIELD VERIFY BEST LOCATIONS AND CONNECTION POINTS. VICTALIC MECHANICAL TEES MAY BE USED. NEW SPRINKLERS ARE INSTALLED IN WOOD STYLE CEILINGS. COVER PLATE COLOR SHALL MATCH EXISTING.
 - 5 FIRE SPRINKLER PIPING SERVING OFFICE SPACE BELOW IS TO BE INSTALLED IN DUCT CHASE.
 - 6 THE FIRE SPRINKLER CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING FIRE SPRINKLERS. ADDRESS REPOSITION EXISTING SPRINKLER LOCATION WITH A NEW SPRINKLER HEAD AS NECESSARY TO ACCOMMODATE NEW DUCT CHASE. MODIFY SPRINKLER PIPING AS REQUIRED. TYPICAL REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
 - 7 PROVIDE AND INSTALL NEW SPRINKLER HEADS PER NFPA 13 AS NECESSARY GIVEN THE NEW WALL THAT COMES UP TO CEILING.



1 LEVEL 2 FIRE PROTECTION PLAN
F102
1/4" = 1'-0"

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LEVEL 2 FIRE PROTECTION PLAN

F102

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR. A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR. EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR. INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	NEW LINE. MEDIUM LINE.
	EXISTING TO REMAIN LINE. THIN LINE.
	DEMOLITION LINE. DASHED, MEDIUM LINE.
	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO IDENTIFICATION SCHEDULE FOR ADDITIONAL INFORMATION.
	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "ILA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
	SINGLE BRANCH CIRCUIT HOME RUN TO PANELBOARD WITH DEDICATED NEUTRAL CONDUCTOR. LETTER AND NUMBER NOTATION IDENTIFY PANEL AND CIRCUIT NUMBER.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE.
	LOW VOLTAGE WIRING. DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	ADA ACCESS PUSH PLATE.
	JUNCTION BOX.
	JUNCTION BOX, CEILING.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
	PULL BOX.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
LIGHTING	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION: EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND/OR GENERATOR AND/OR CENTRALIZED INVERTER AND/OR CENTRALIZED UPS CONNECTION AS INDICATED IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT. DO NOT SWITCH.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	PHOTOCELL.
	PHOTOCELL, WALL MOUNTED.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
	DIGITAL LIGHTING ROOM CONTROLLER
	DIGITAL LIGHTING DIMMING CONTROLLER
	LIGHTING EMERGENCY TRANSFER DEVICE
	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, DUPLEX. NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER. NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN. CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF. NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF. NEMA 5-20R.
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CLINIC/HOSPITAL - CABLE/OUTLET COLOR SCHEDULE

COLOR	TYPE
BLACK	TV COAX
BLUE	ANALOG PHONE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
GREY	SECURITY CARD READERS
ORANGE	CLINICAL ENGINEERING / NURSE CALL
RED	FIRE SYSTEMS
RED	FORESEER
WHITE	PUBLIC ADDRESS
YELLOW	WIRELESS
GREEN	VENDOR NETWORK

COPPER PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)

LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)
5'	BLUE	20% OF TOTAL PORTS IN TDR'S	
7'	BLUE	60% OF TOTAL PORTS IN TDR'S	
10'	BLUE	20% OF TOTAL PORTS IN TDR'S	

COPPER PATCH CORD SCHEDULE

(CATEGORY 5E CABLES W/RJ-45 CONNECTORS)

LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)
5'	BLUE	560	
7'	BLUE	560	
10'	BLUE	480	

FIBER PATCH CORD SCHEDULE

(SINGLE-MODE W/LC CONNECTORS)

LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
-	-	-	-
3	YELLOW	250	-
5	YELLOW	250	-

WIRELESS PATCH CORD PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP W RJ/45 CONNECTORS)

LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
7'	YELLOW	100% OF TOTAL PORTS IN TDR'S	

CLINIC/HOSPITAL - EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE. FOR A COMPLETE INSTALLATION, COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	STATION CABLE, DATA - CATEGORY 6A F/UTP RISER, BLUE, DATA	SIEMON 9A6R4-AS-06-R1A
	STATION CABLE, DATA - CATEGORY 6A F/UTP RISER, YELLOW, WIRELESS DATA	SIEMON 9A6R4-AS-05-R1A
	STATION CABLE, DATA - CATEGORY 6A F/UTP RISER, ORANGE, CLINICAL ENGINEERING	SIEMON 9A6R4-AS-09-R1A
	STATION CABLE, DATA - CATEGORY 5E RISER, ORANGE, NURSE CALL	SIEMON 9C5R4-E2-09-R3A
	STATION CABLE, DATA - CATEGORY 5E RISER, GREEN, VENDOR NETWORK	SIEMON 9C5R4-E2-07-R1A
	50 PAIR CATEGORY 3 RISER CABLE, GRAY	GENERAL CABLE 2133161.99 OR EQUAL
	25 PAIR CATEGORY 3 RISER CABLE, GRAY	GENERAL CABLE 2133033.99 OR EQUAL
	FORESEER CABLE, 2 PAIR	BELDEN 88723
	FIBER OPTIC CABLE, MULTIMODE, OM3, 12 STRAND, ARMORED, RISER CABLE, AQUA	SIEMON 98C6R012G-T312A
	FIBER OPTIC CABLE, SINGLEMODE, 4 STRAND, 2 COND., 14 AWG, INDOOR/OUTDOOR CABLE, BLACK	CORNING 90A2ZF-21X01M20
	FIBER OPTIC CABLE, SINGLEMODE, 6 STRAND, ARMORED, INDOOR/OUTDOOR CABLE, BLACK	SIEMON 98G8R009D-E201A
	FIBER OPTIC CABLE, SINGLEMODE, 12 STRAND, ARMORED, RISER CABLE, YELLOW	SIEMON 98C8R012L-E205A
	FIBER OPTIC CABLE, SINGLEMODE, 24 STRAND, ARMORED, RISER CABLE, YELLOW	SIEMON 98C8R024L-E205A
	VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG	SIEMON MX-WP-26AS-SS
	PHONE WALL MOUNTING STUDS, ONE POSITION, WALL MOUNTED	VIKING ELECTRONICS E-1600-02A
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	BLANK INSERT, WHITE	SIEMON MX-BL-02
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-JMA-01
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	BLANK MODULE, BLACK	SIEMON MX-BL-01
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	BLANK INSERT, WHITE	SIEMON MX-BL-02
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SM22-02
		SIEMON Z8A-S05
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SM22-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z8A-S06
	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48
	48 PORT, 2RU ANGLE PATCH PANEL, 110 STYLE	SIEMON HD5-48A
	FIBER PATCH PANEL, EXPANDED UNIT FOR FIBER SPLICE TRAY CAPACITY, 3RU	SIEMON R1C3E-48-01
	SIX POSITION, 12 STRAND, FIBER SPLICE MODULE, LC	SIEMON F5M2-12-LCSM-01
	FIBER SPLICE TRAY	SIEMON TRAY-3
	BLANK ADAPTER PLATE, BLACK	SIEMON R1C-F-BLNK-01
	HORIZONTAL WIRE MANAGERS, 4RU	PANDUIT NCMHAEF4
	HORIZONTAL WIRE MANAGERS, FRONT ONLY, 2RU, BLACK	PANDUIT NCMHAEF2
	VERTICAL WIRE MANAGERS, 10" WIDTH, DOUBLE SIDED, BLACK, 8"	CHATSWORDTH 40096-715
	POWER SUPPLY UNIT, 12 PORT, 1RU	CORNING PSU8-1U
	MODULAR POWER SUPPLY, 57 VDC	CORNING PSM-1
	EQUIPMENT RACK 19" x 8", 52 RU, BLACK	CHATSWORDTH 55053-715
	DATA CENTER CABINETS 23.6" x 47.3" x 7", 45RU x 600mm x 1200mm, BLACK, WITH 2 SIDES	DCE E4562121122001S
	DATA CENTER CABINET, 45RU x 600mm x 1200mm, BLACK, WITH 1 SIDE	DCE E4562122122001S
	DATA CENTER CABINET, 45RU x 600mm x 1200mm, BLACK	DCE E4562120122001S
	DATA CENTER CABINETS 27.6" x 47.3" x 7", 45RU x 700mm x 1200mm, BLACK, WITH 2 SIDES	DCE E4572121122001S
	DATA CENTER CABINET, 45RU x 700mm x 1200mm, BLACK, WITH 1 SIDE	DCE E4572122122001S
	DATA CENTER CABINET, 45RU x 700mm x 1200mm, BLACK	DCE E4572120122001S
	WALL MOUNTED CABINET, 48"(H) x 24"(D), 26RU, BLACK, SOLID METAL DOOR	CHATSWORDTH 11840-748
	WALL MOUNTED RACK, 33.6" H x 17" D, 26RU, BLACK	CHATSWORDTH 11807-718
	HEAVY DUTY SWING GATE KIT	CHATSWORDTH 12795-701
	CABLE RUNWAY - 24", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORDTH 10250-724
	CABLE RUNWAY - 18", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORDTH 10250-718
	BUTT SPLICE KIT, BLACK	CHATSWORDTH 11301-701
	JUNCTION SPLICE KIT, BLACK	CHATSWORDTH 11302-701
	FOOT KIT, BLACK	CHATSWORDTH 11309-701
	6" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORDTH 12409-724
	TRIANGLE BRACKETS, BLACK	CHATSWORDTH 11746-724
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORDTH 11700-724
	WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATSWORDTH 11421-724
	CABLE RUNWAY ELEVATION KIT, 6"	CHATSWORDTH 10506-706
	CABLE RUNWAY RADIUS DROP	CHATSWORDTH 12100-712
	PLYWOOD BACKBOARD, 4' x 8', GRADE AC, FIRE TREATED & PAINTED	-
	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	-
	TELECOMMUNICATIONS GROUNDING BUS BAR	-

NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

CLINIC/HOSPITAL - GENERAL PROJECT NOTES

- UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.
- THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
- IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION.
- GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL 15' ABOVE THE CEILING OR BELOW FLOOR WHERE APPLICABLE.
- PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
- RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF YOU HAVE A SYSTEM THAT HAS NOT RACK ALLOCATION PLEASE CALL BOE SAUSEDO AT 801-707-3805.
- COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLES ARE PROTECTED FROM ANY DIRECT PAINT, OR INCIDENTAL OVERSPRAY.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

A	AUGMENTED
CAT	CATEGORY
EA	EACH
ER	EQUIPMENT ROOM
FPP	FIBER PATCH PANEL
GIG	GIGA HERTZ
HWM	HORIZONTAL WIRE MANAGEMENT
OE	OWNER ELECTRONICS
OR	OR
PR	PLENUM
PS	PAIR
RPP	RISER PATCH PANEL
TDR	STATION PATCH PANEL
TYP	TELECOMMUNICATIONS ROOM
VWM	VERTICAL WIRE MANAGEMENT

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED" WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC. ...

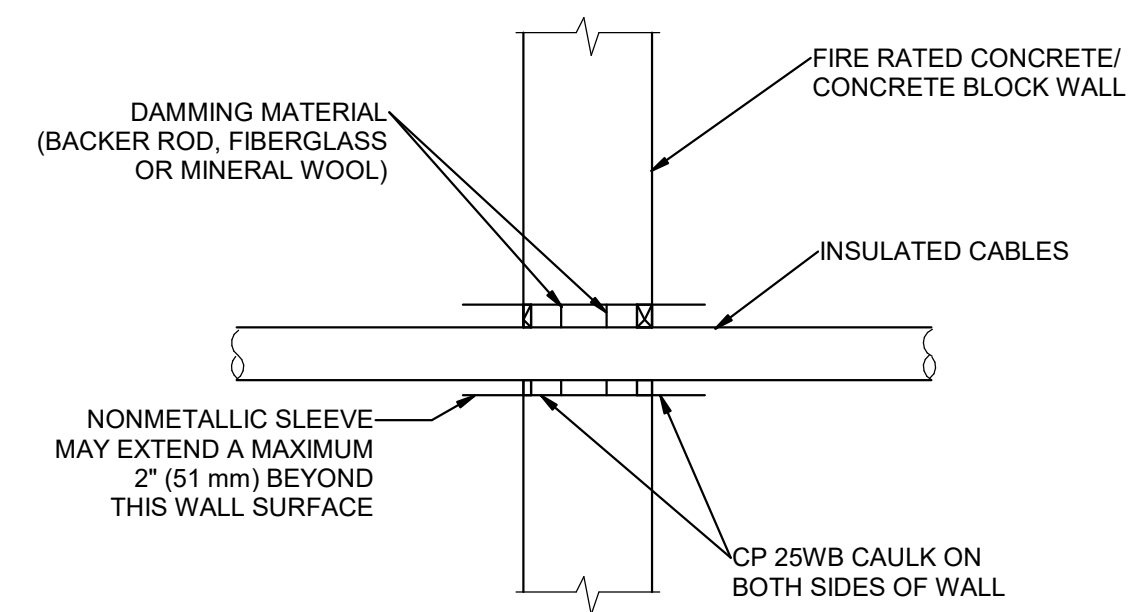
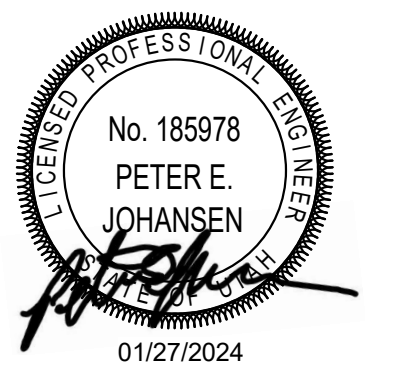


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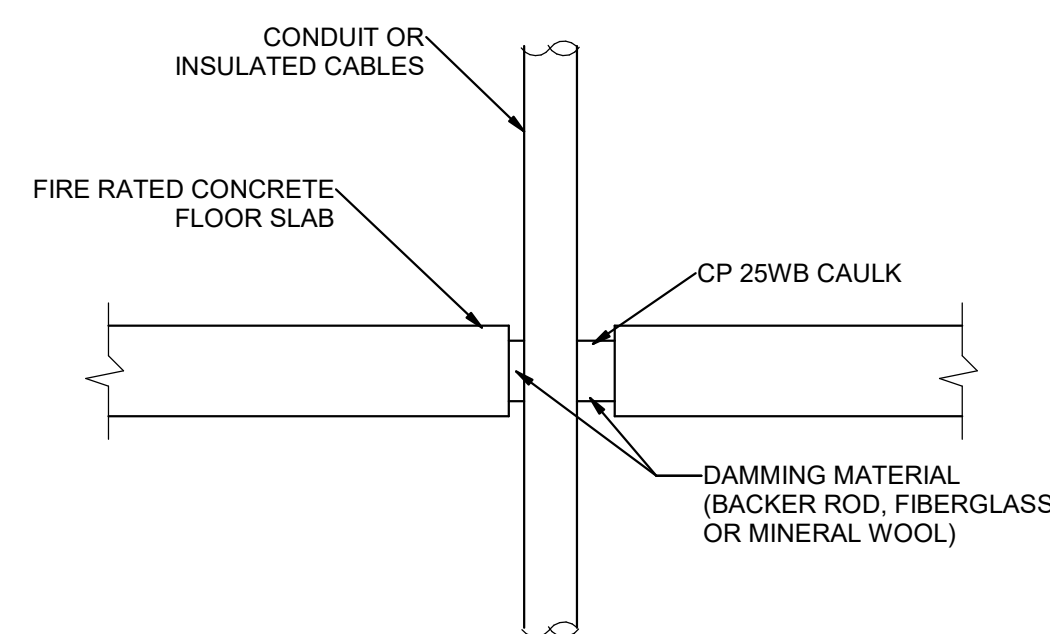


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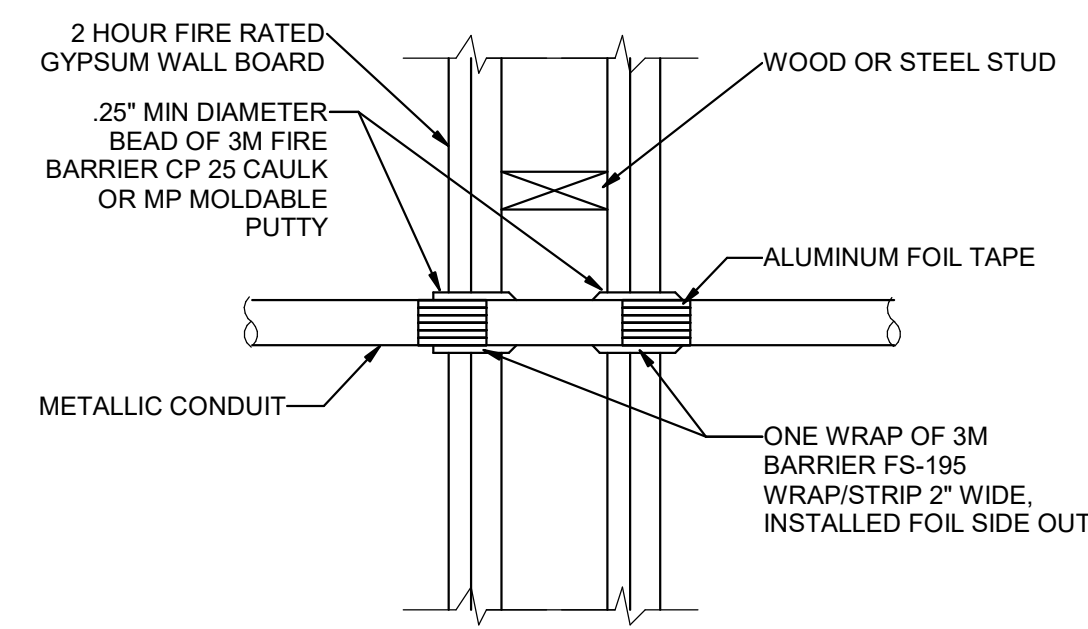
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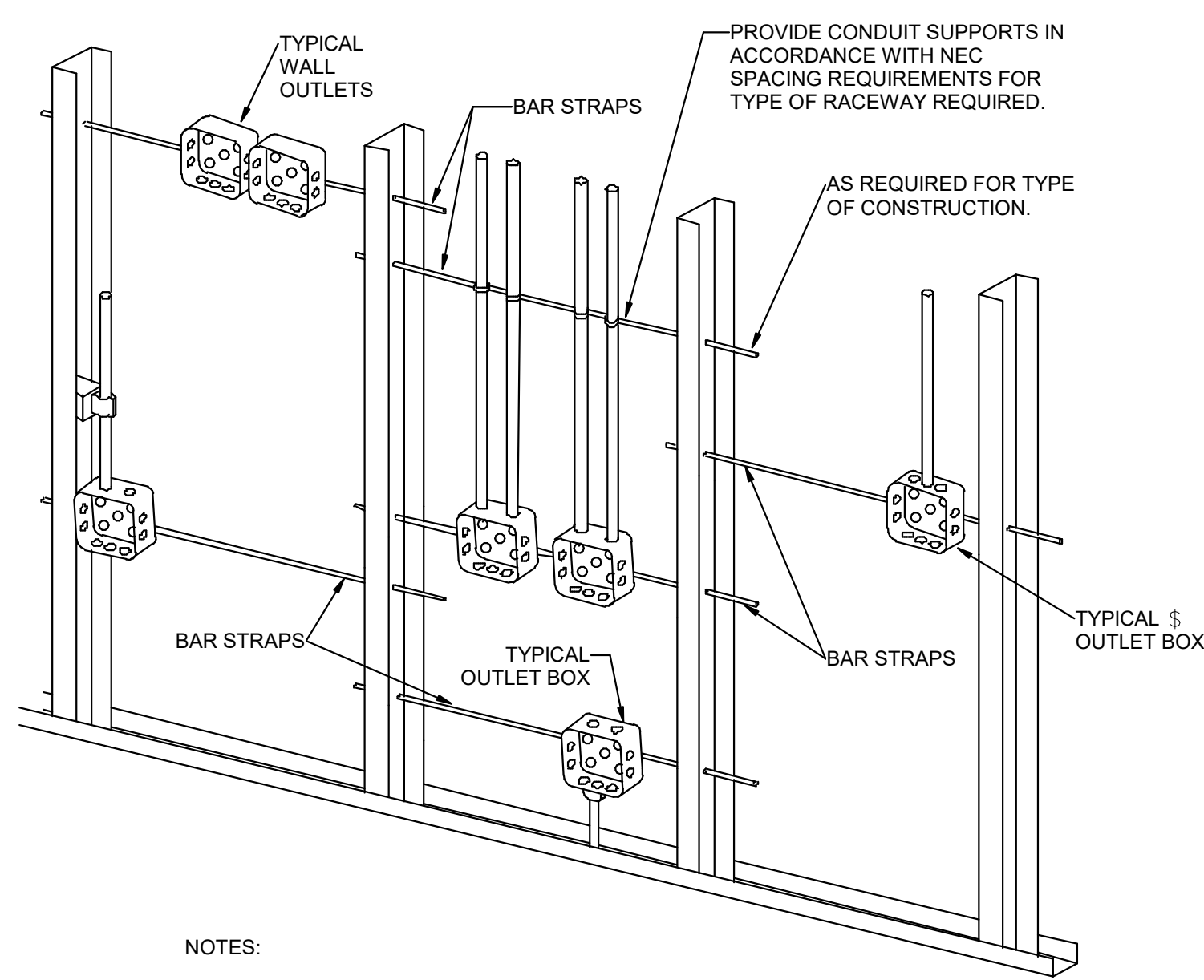
5 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS1
SCALE: NTS



6 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING1
SCALE: NTS

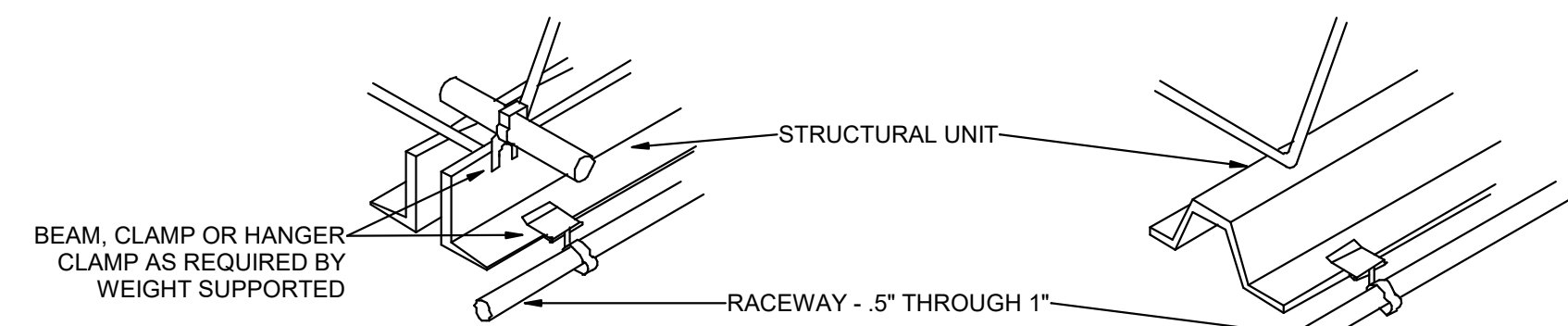
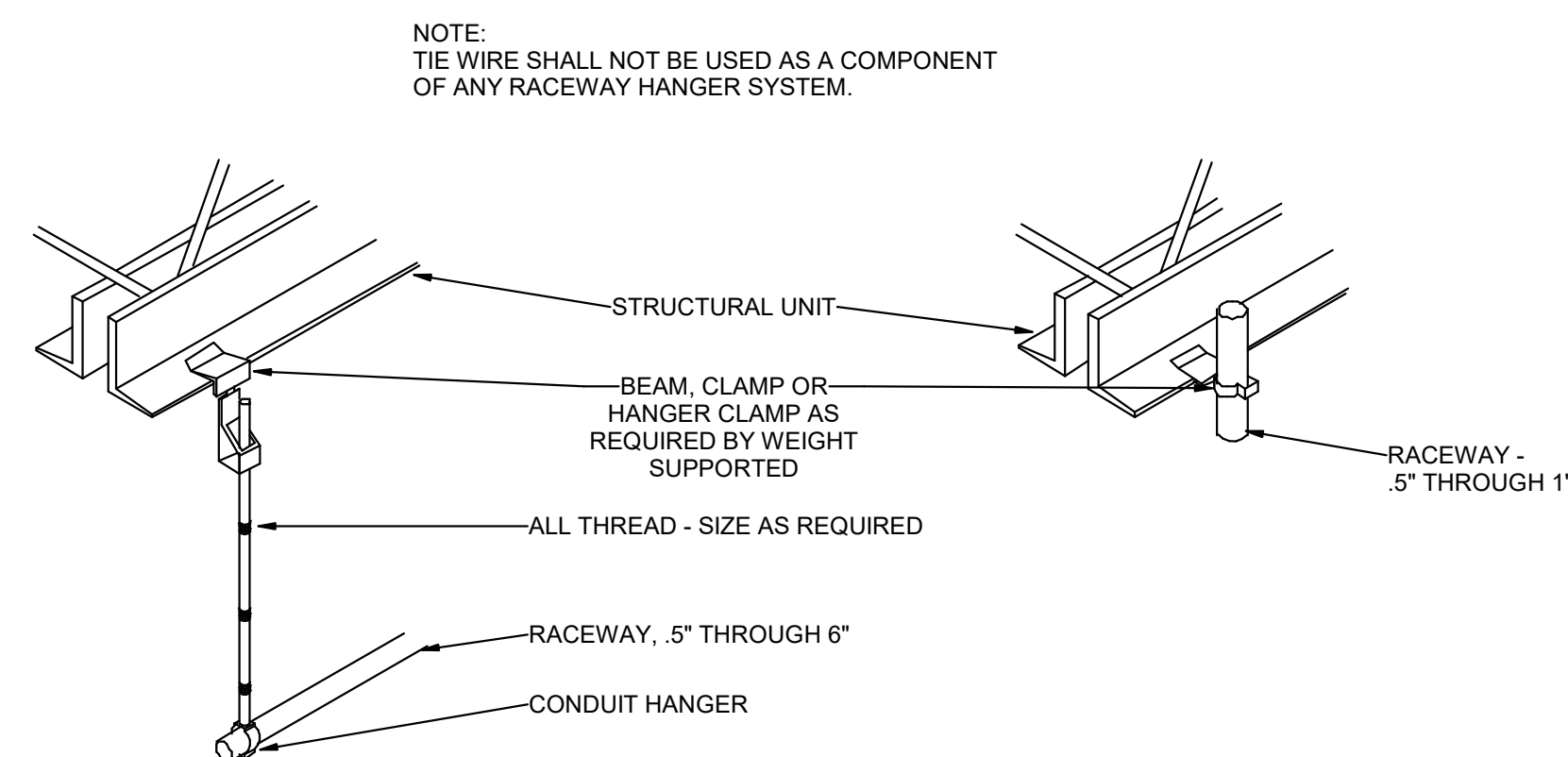


7 FIRE STOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD1
SCALE: NTS

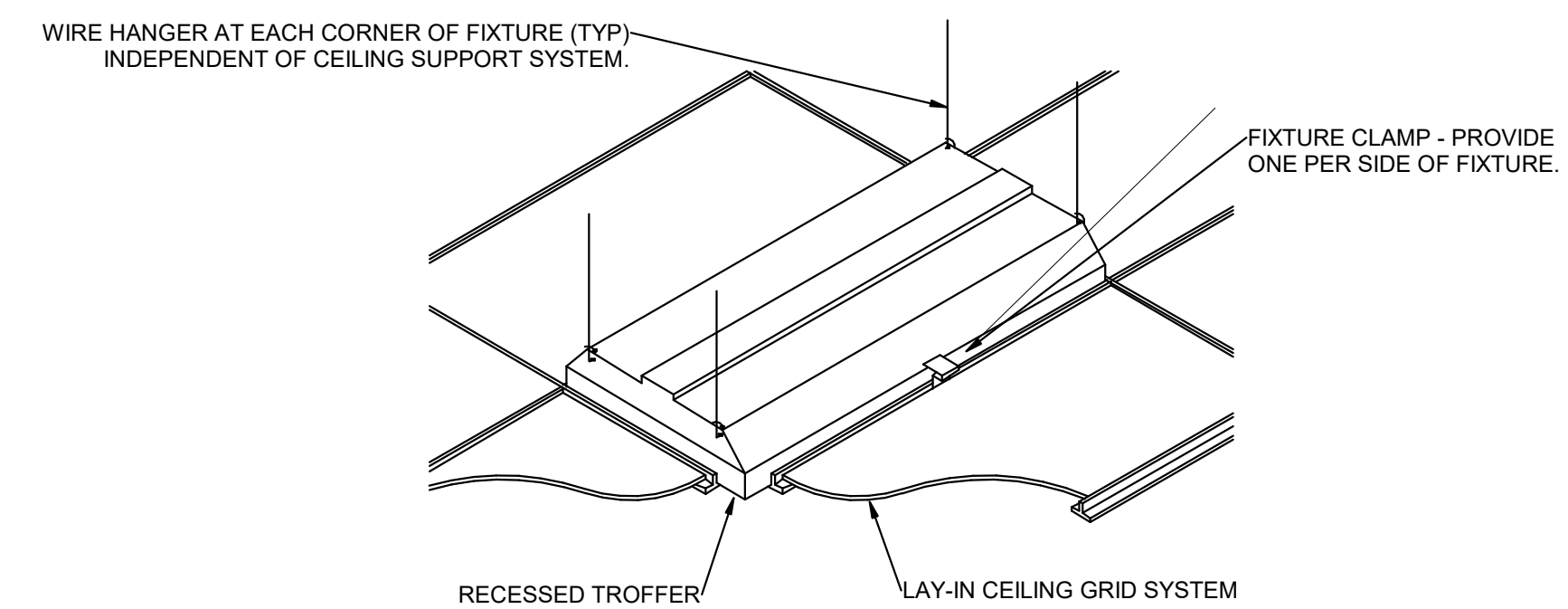


- NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE. IF LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

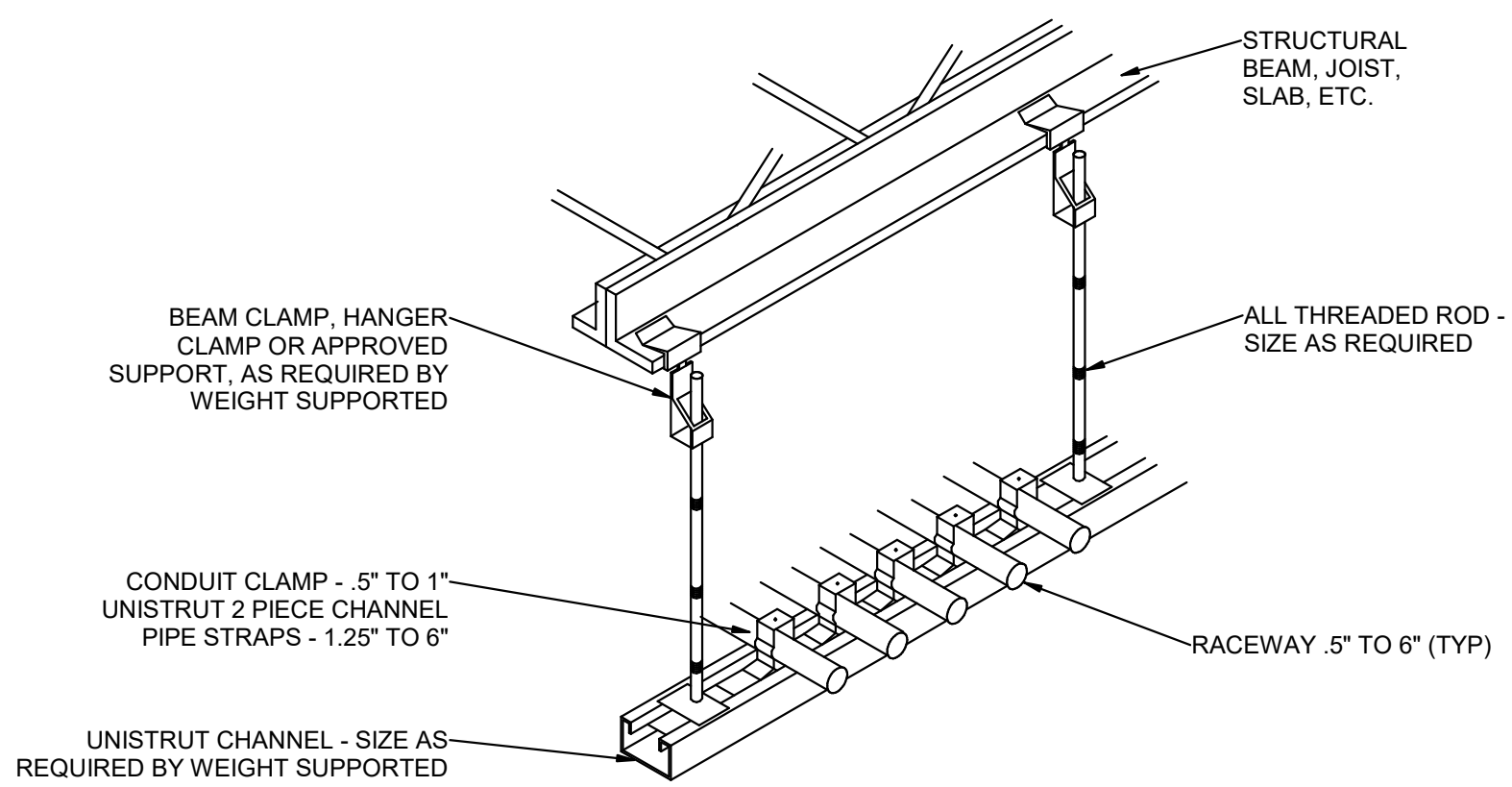
1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL1
SCALE: 1/8" = 1'-0"



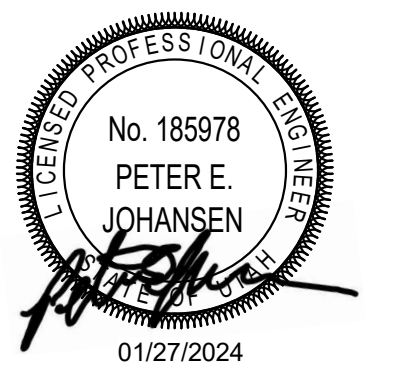
2 TYPICAL RACEWAY SUPPORT METHODS DETAIL1
SCALE: 1/8" = 1'-0"



4 RECESSED FIXTURE MOUNTING DETAIL1
SCALE: 1/8" = 1'-0"

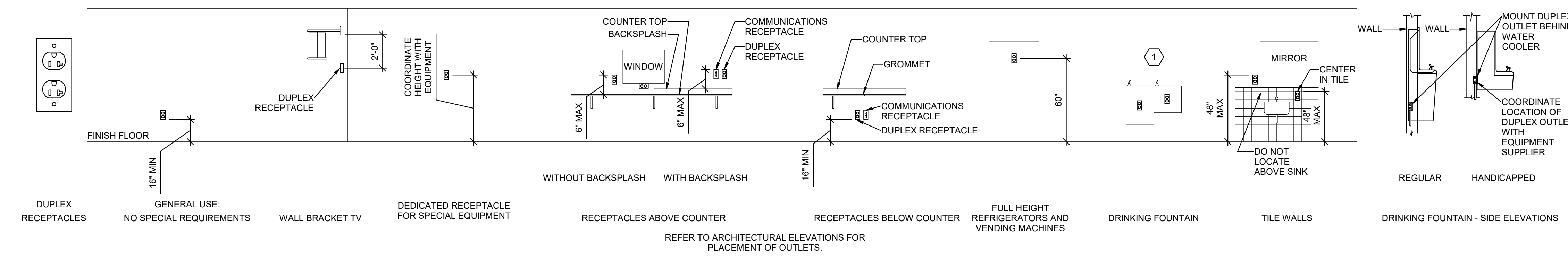


3 TYPICAL CONDUIT RACK DETAIL1
SCALE: 1/8" = 1'-0"

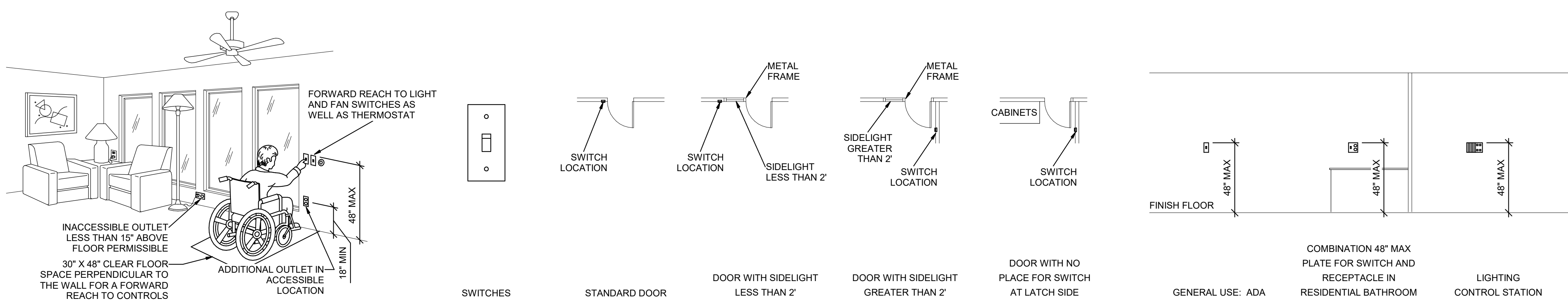


GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC.)
 - 2 - EQUIPMENT SHOP DRAWINGS.
 - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

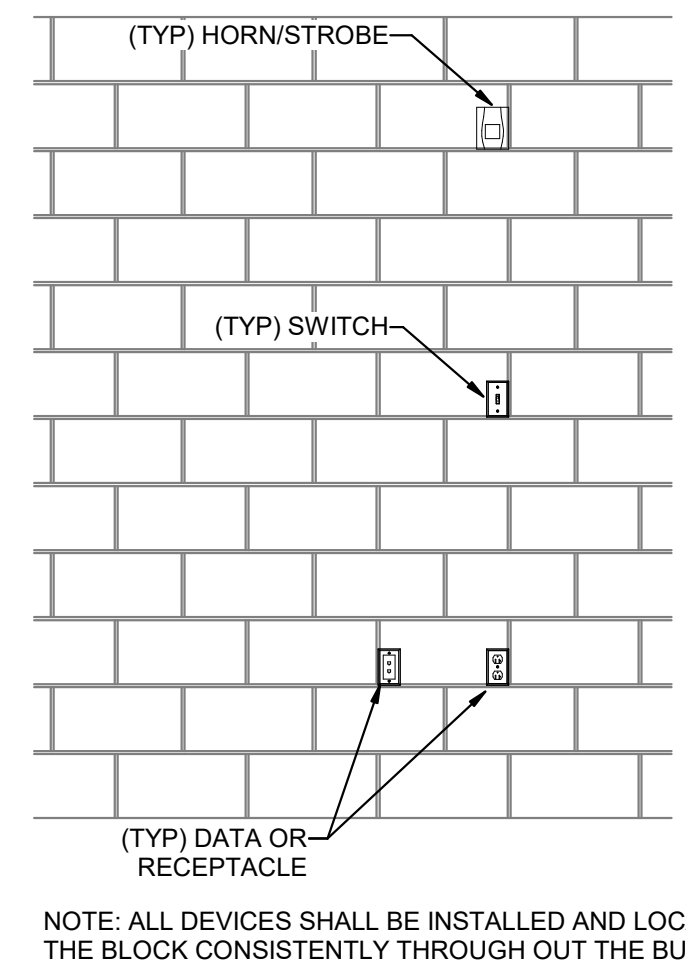


E2 RECEPTACLE MOUNTING DETAILS
SCALE: NTS

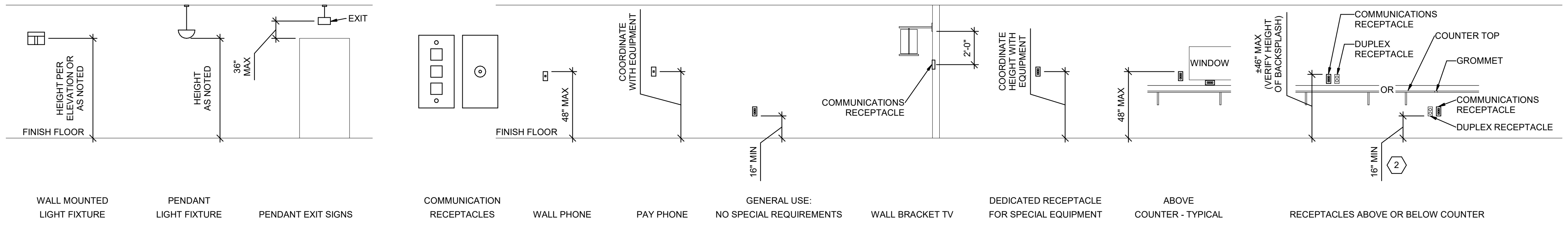


D2 ADA DETAIL
SCALE: NTS

D3 SWITCH MOUNTING DETAILS
SCALE: NTS

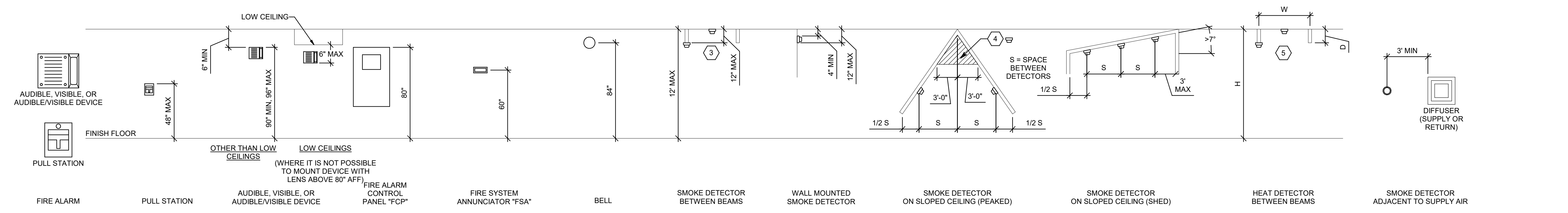


CMU DEVICE MOUNTING ALIGNMENT DETAIL
SCALE: NTS

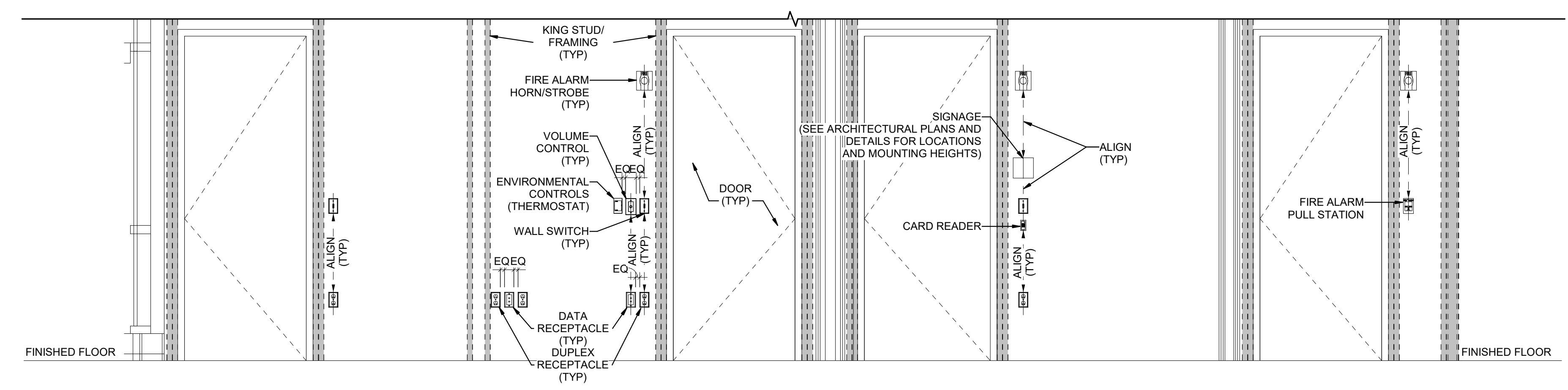


C2 LIGHTING MOUNTING DETAILS
SCALE: NTS

C3 COMMUNICATIONS MOUNTING DETAILS
SCALE: NTS



B1 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



A2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS

A1 BOX MOUNTING DETAILS
SCALE: NTS

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY 5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADDED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < 1 OR W/H < 4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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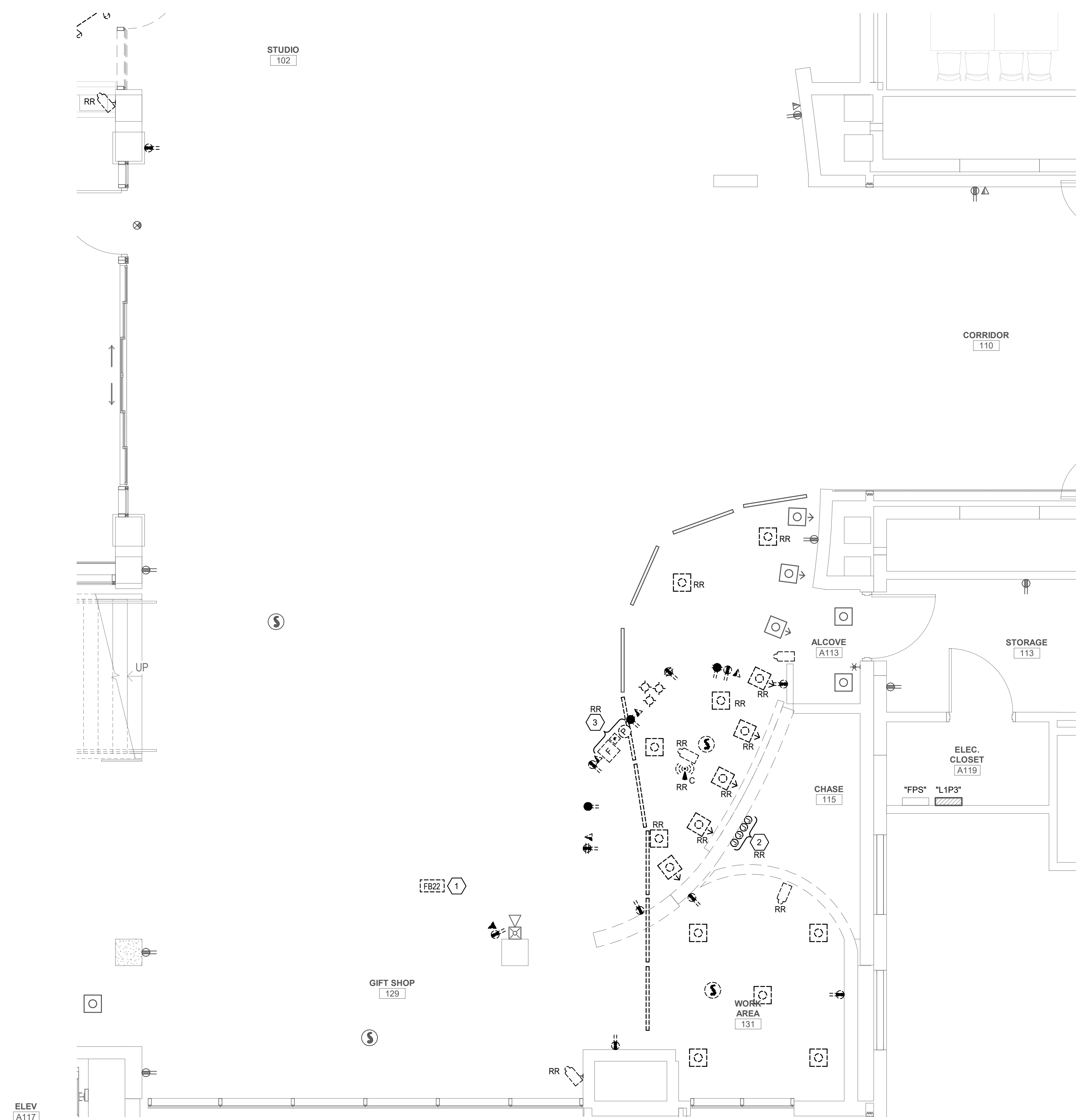


GENERAL SHEET NOTES

- 1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- 2 SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 3 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- 4 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 5 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 6 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- 7 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- 8 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 9 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- 10 DEMOLISH ALL WI-FI ACCESS POINTS WHETHER SHOWN ON DRAWINGS OR NOT WITHIN SCOPE OF WORK AREA.
- 11 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE
- 12 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 13 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.
- 14 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

- 1 DEMOLISH FLOOR BOX AND EXTEND CIRCUITING TO NEW GIFT SHOP FLOOR BOX LOCATION.
- 2 REMOVE AND RELOCATE CONDUITS AND JBOXES AS NEEDED TO NEW CHASE LOCATION. FIELD VERIFY PRIOR TO BID.
- 3 EXTEND THE SYSTEMS WIRING FOR THE FIRE ALARM PULL STATION, DOOR RELEASE, AND PANIC HARDWARE TO THE NEW RECEPTION DESK.



1 LEVEL 1 ELECTRICAL DEMOLITION PLAN - GIFT SHOP
SCALE: 1/4" = 1'-0"

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**LEVEL 1
ELECTRICAL
DEMOLITION
PLAN - PHASE
1
ED101**

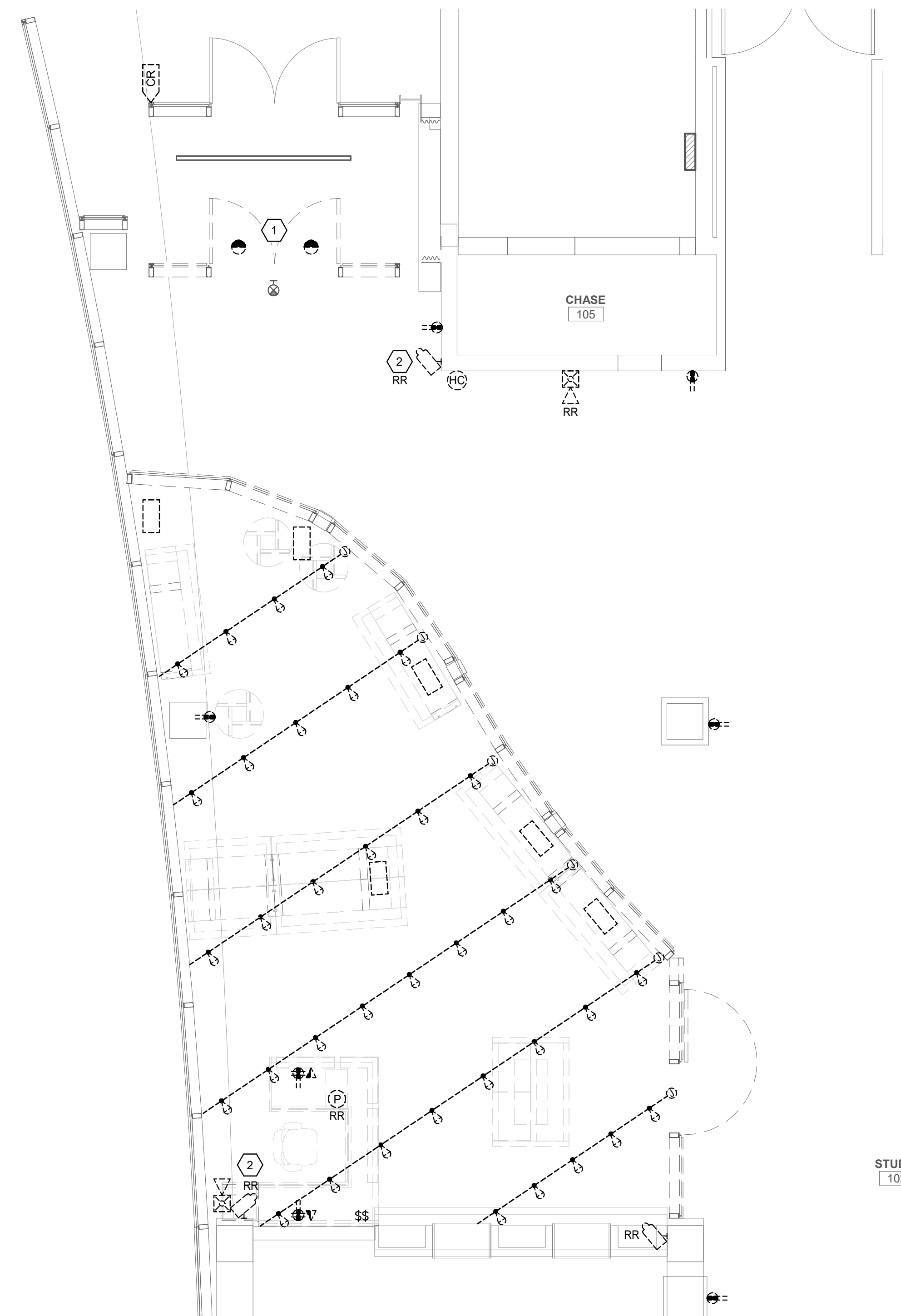


GENERAL SHEET NOTES

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- 3 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
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- 14 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

- 1 ELECTRIC UNIT HEATERS IN VESTIBULE TO BE DEMOLISHED.
- 2 REMOVE AND RELOCATE CAMERA. EXTEND SYSTEMS WIRING AS NEEDED.



1 LEVEL 1 ELECTRICAL DEMOLITION PLAN - STUDIO
SCALE: 1/4" = 1'-0"

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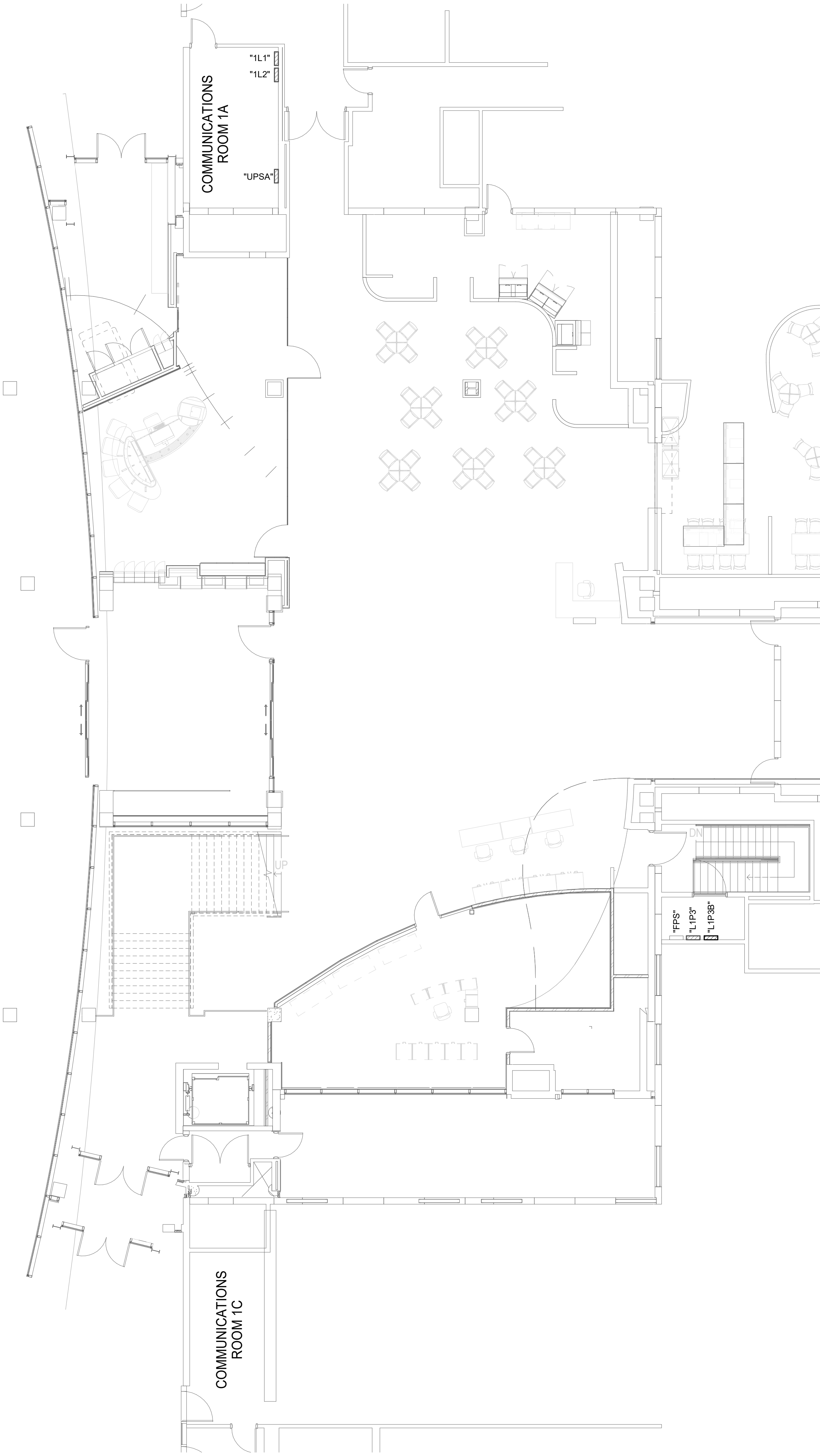
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LEVEL 1
ELECTRICAL
DEMOLITION
PLAN - PHASE
2
ED102

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

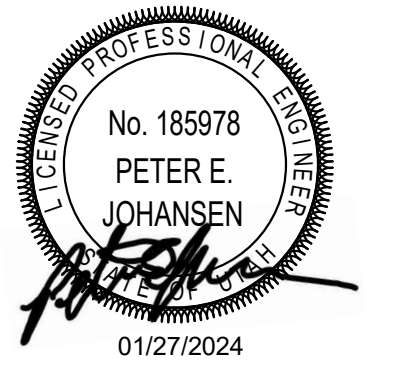
GENERAL SHEET NOTES

- 1 PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT SCOPE.
- 2 ALL POWER RECEPTACLES TO BE TAMPER RESISTANT.
- 3 THE GIFT SHOP AND SEACREST STUDIO HAVE DIFFERENT TELECOM REQUIREMNTS. REFER TO THE APPROPRIATE TELECOM RISER ON E1601 FOR TELECOM REQUIREMNTS.

SHEET KEYNOTES



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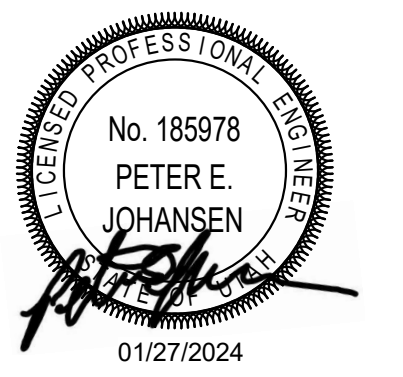
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**LEVEL 1
OVERALL
POWER PLAN**

EP100

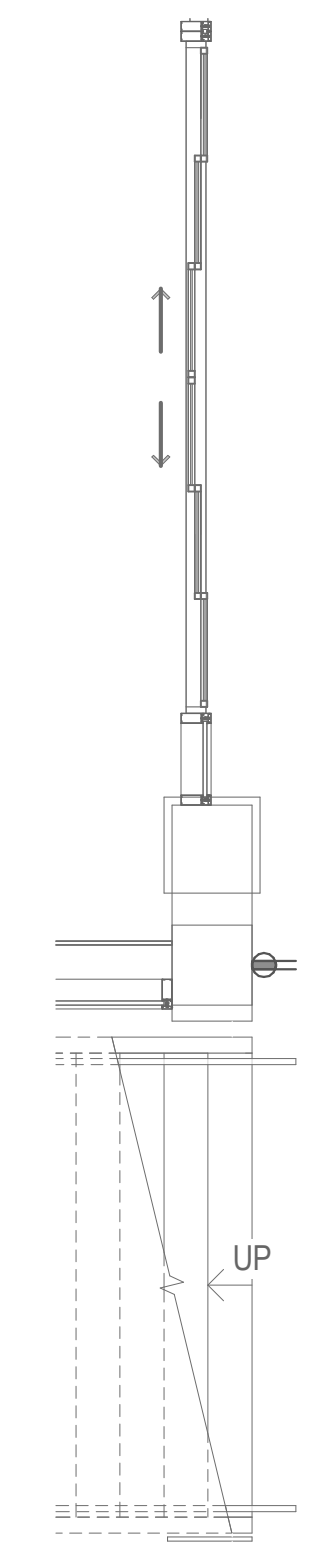
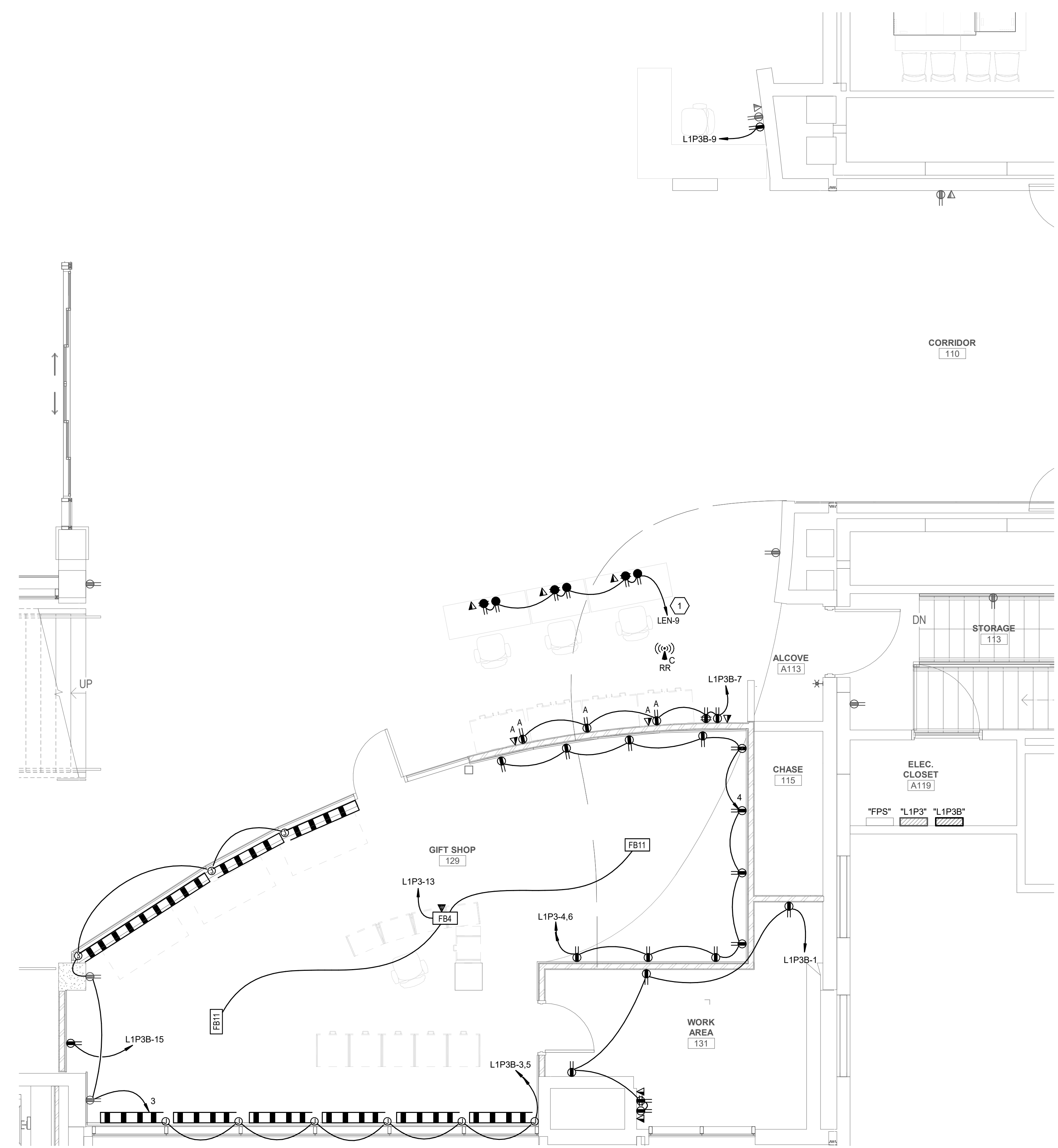


GENERAL SHEET NOTES

- 1 PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT SCOPE.
- 2 ALL POWER RECEPTACLES TO BE TAMPER RESISTANT.
- 3 THE GIFT SHOP AND SEACREST STUDIO HAVE DIFFERENT TELECOM REQUIREMENTS. REFER TO THE APPROPRIATE TELECOM RISER ON ET601 FOR TELECOM REQUIREMENTS.

SHEET KEYNOTES

- 1 EXTEND EXISTING CIRCUITING PREVIOUSLY USED FOR RECEPTION DESK TO NEW DESK LOCATION.



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1 LEVEL 1 POWER PLAN - GIFT SHOP
SCALE: 1/4" = 1'-0"

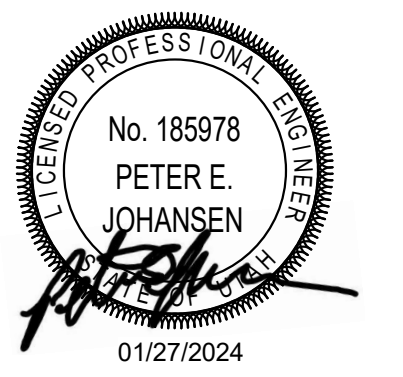
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LEVEL 1
POWER PLAN
- PHASE 1

EP101

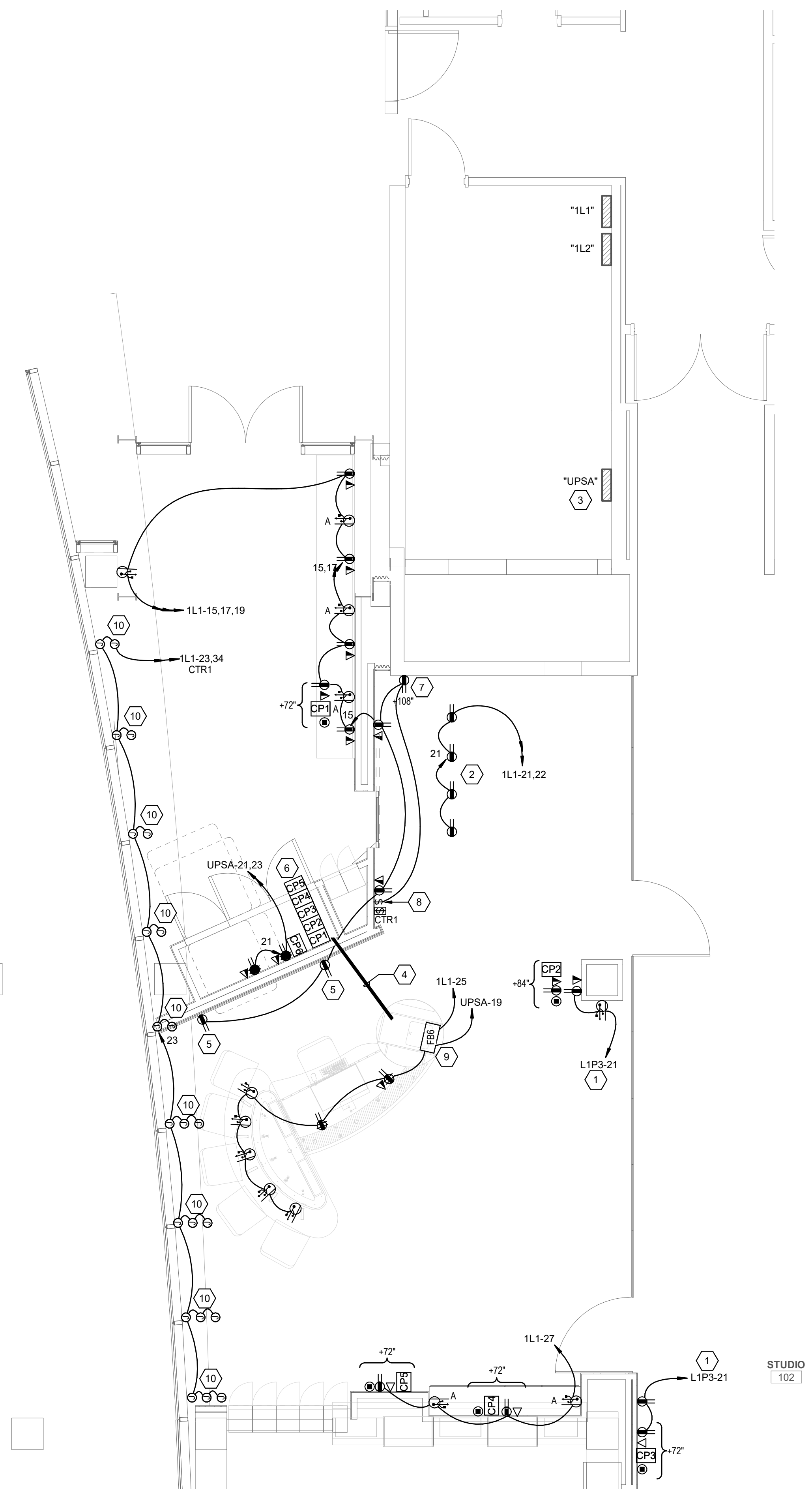


GENERAL SHEET NOTES

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- 2 ALL POWER RECEPTACLES TO BE TAMPER RESISTANT.
- 3 THE GIFT SHOP AND SEACREST STUDIO HAVE DIFFERENT TELECOM REQUIREMENTS. REFER TO THE APPROPRIATE TELECOM RISER ON ET001 FOR TELECOM REQUIREMENTS.

SHEET KEYNOTES

- 1 CONNECT TO THE EXISTING 120V CIRCUIT FEEDING RECEPTACLES IN THIS SPACE.
- 2 RECEPTACLES TO BE LOCATED ON BEAM. SURFACE MOUNT CONDUITS AND RECEPTACLES. COORDINATE EXACT LOCATIONS WITH SPOT LIGHTING.
- 3 PROVIDE (2) NEW 20A/1P BREAKERS IN EXISTING SQUARE D PANEL UPSA.
- 4 PROVIDE (4) 3" CONDUITS FROM SEACREST TELECOM CLOSET TO CIRCULAR RACK.
- 5 MOUNT POWER RECEPTACLE HORIZONTALLY AND PROVIDE A MATCHING WOOD FINISH.
- 6 HDMI CONNECTIONS FOR EACH MONITOR TO TERMINATE AT THIS LOCATION.
- 7 POWER FOR RETRACTABLE GREEN SCREEN. COORDINATE WITH GREEN SCREEN LOCATION.
- 8 GREEN SCREEN CONTROLLER, OWNER FURNISHED CONTRACTOR INSTALLED.
- 9 PROVIDE ONE COMPARTMENT FOR UPS POWER, ONE COMPARTMENT FOR NORMAL POWER, AND ONE FOR ETHERNET. ONLY THE CIRCULAR RACK WILL BE ON UPS POWER.
- 10 PROVIDE 120V CIRCUIT TO EACH SHADE MOTOR. RUN A CAT6A CABLE FROM EACH MOTOR TO THE IQ2 DUAL SPLITTER/MECHONET NODE. ALSO RUN A CAT6A CABLE FROM THE IQ GATEWAY TO THE FIRST IQ2 SPLITTER AND DAISY CHAIN TO CONNECT TO THE OTHER SPLITTERS. EACH JBOX REPRESENTS A TIER OF WINDOW.



1 LEVEL 1 POWER PLAN - STUDIO
SCALE: 1/4" = 1'-0"

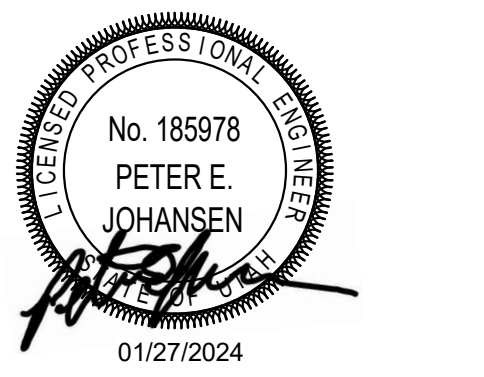
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LEVEL 1
POWER PLAN
- PHASE 2

EP102



SHEET KEYNOTES

- PROVIDE A 100A/3P BREAKER IN EXISTING SQUARE D PANEL L1P3. RELOCATE 3 20A/1P CIRCUITS ONTO L1P3B TO MAKE ROOM FOR THE NEW BREAKER.

CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) 5 IG
SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1) QTY SIZE	IG	SE	NOTES
1	20	.75	2 12 12	12	8	2
2	20	.75	3 12 12	12	8	2,3
3	20	.75	4 12 12	12	8	2,3
4	30	.75	2 10 10	10	8	2
5	30	.75	3 10 10	10	8	2
6	30	.75	4 10 10	10	8	2
7	40	1	2 8 8	8	6	2
8	40	1	3 8 8	8	6	2
9	40	1	4 8 8	8	6	2
10	55	1	2 6 6	6	4	2
11	55	1	3 6 6	6	4	2
12	55	1.25	4 6 6	6	4	2
13	70	1	2 4 8	4	2	2
14	70	1.25	3 4 8	4	2	2
15	70	1.25	4 4 8	4	2	2
16	85	1.25	2 3 8	3	2	2
17	85	1.25	3 3 8	3	2	2
18	85	1.25	4 3 8	3	2	2
19	95	1.25	3 2 8	2	2	2
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21	130	1.50	3 1 6	2	2	2
22	130	1.50	4 1 6	2	2	2
23	150	2	3 1/0 6	2	1/0	2
24	150	2	4 1/0 6	2	1/0	2
25	175	2	3 2/0 6	2	2/0	2
26	175	2	4 2/0 6	2	2/0	2
27	200	2	3 3/0 6	2	2/0	2
28	200	2.50	4 3/0 6	2	2/0	2
29	230	2.50	3 4/0 4	2	2/0	2
30	230	2.50	4 4/0 4	2	2/0	2
31	255	2.50	3 250 4	1	2/0	2
32	255	2.50	4 250 4	1	2/0	2
33	310	3	3 350 3	1/0	3/0	2
34	310	3	4 350 3	1/0	3/0	2
35	380	3.50	3 500 3	3/0	3/0	2
36	380	4	4 500 3	3/0	3/0	2
37	400	2 EA 2	3 3/0 3	3/0	3/0	2
38	400	2 EA 2.50	4 3/0 3	3/0	3/0	2
39	510	2 EA 2.50	3 250 1	4/0	3/0	2
40	510	2 EA 3	4 250 1	4/0	3/0	2
41	620	2 EA 3	3 350 1/0	4/0	3/0	2,4
42	620	2 EA 3	4 350 1/0	4/0	3/0	2,4
43	760	2 EA 3.50	3 500 1/0	4/0	3/0	2,4
44	760	2 EA 4	4 500 1/0	4/0	3/0	2,4
45	855	3 EA 3	3 300 2/0	4/0	3/0	2,4
46	855	3 EA 3	4 300 2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3 400 2/0	4/0	3/0	4
48	1000	3 EA 3.50	4 400 2/0	4/0	3/0	4
49	1140	3 EA 4	3 500 3/0	4/0	3/0	4
50	1140	3 EA 4	4 500 3/0	4/0	3/0	4
51	1240	4 EA 3	3 350 3/0	4/0	3/0	4
52	1240	4 EA 3	4 350 3/0	4/0	3/0	4
53	1675	5 EA 4	4 400 4/0	4/0	4/0	4
54	2010	6 EA 4	4 400 250	250	250	4
55	2660	7 EA 4	4 500 350	350	350	4
56	3040	8 EA 4	4 500 500	500	500	4
57	4180	11 EA 4	4 500 500	500	500	4
58		5 EA 4				6
59		5				6
60		10 EA 4				6

- CONDUCTOR AND CONDUIT SCHEDULE NOTES
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE TWIN UNLESS OTHERWISE NOTED.
 - PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
 - PROVIDE #10 NEUTRALS FOR MULTIWIRED BRANCH CIRCUITS SERVING COMPUTERS.
 - GROUND CONDUCTOR SHALL BE OMITTED BETWEEN THE UTILITY TRANSFORMER AND THE FIRST OVERCURRENT PROTECTIVE DEVICE.
 - SYMBOL SUBSCRIPTS:
 - "2N" - INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.
 - "FG" - FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE THE SAME SIZE AS THE PHASE CONDUCTORS.
 - "HH" - NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - "IG" - INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - "SBJ" - SUBSTITUTE "SBJ" CONDUCTOR FOR "IG" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE SYSTEM BONDING JUMPER OF THE SEPARATELY DERIVED SYSTEM.
 - RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

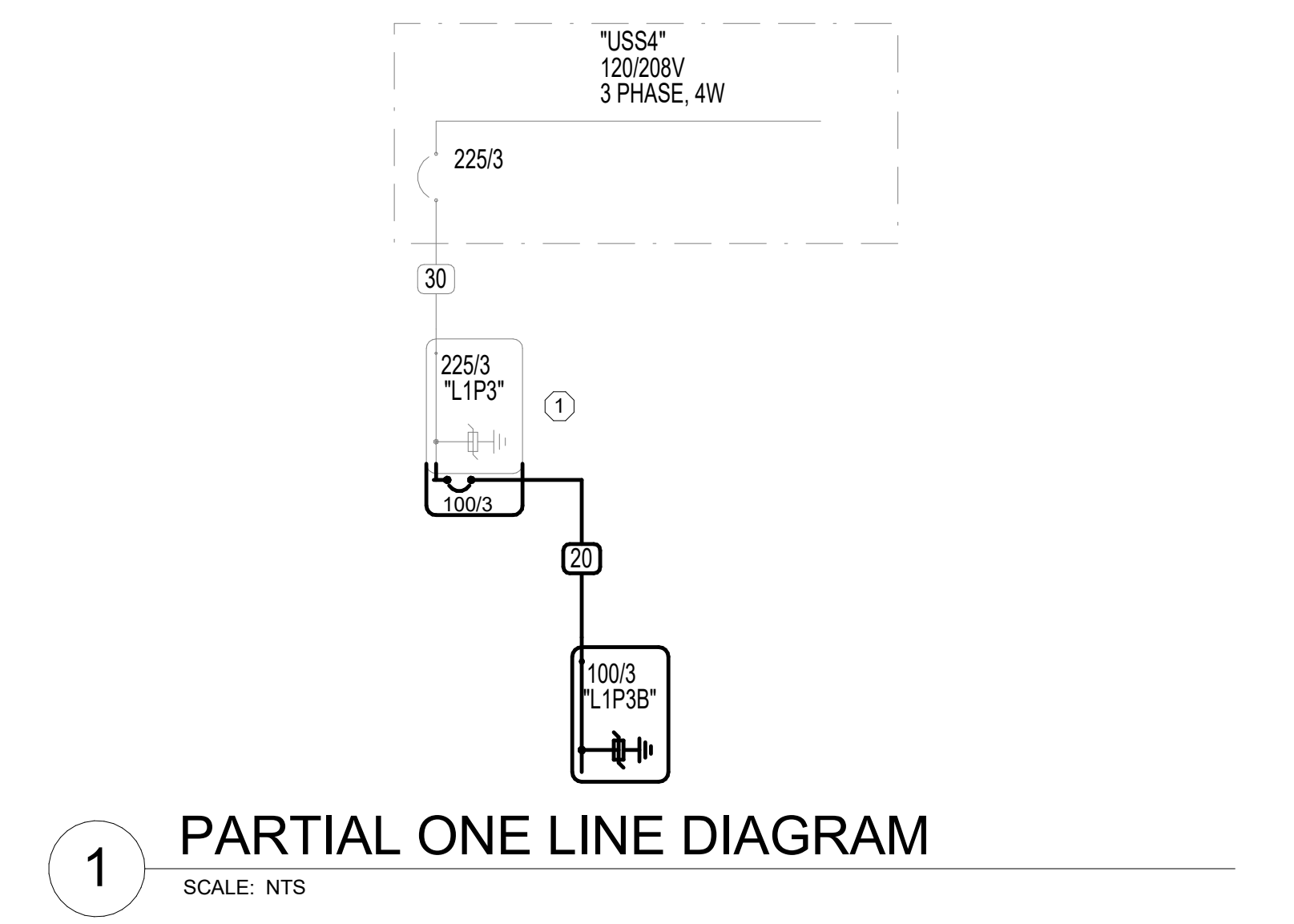
PANEL: "L1P3B"

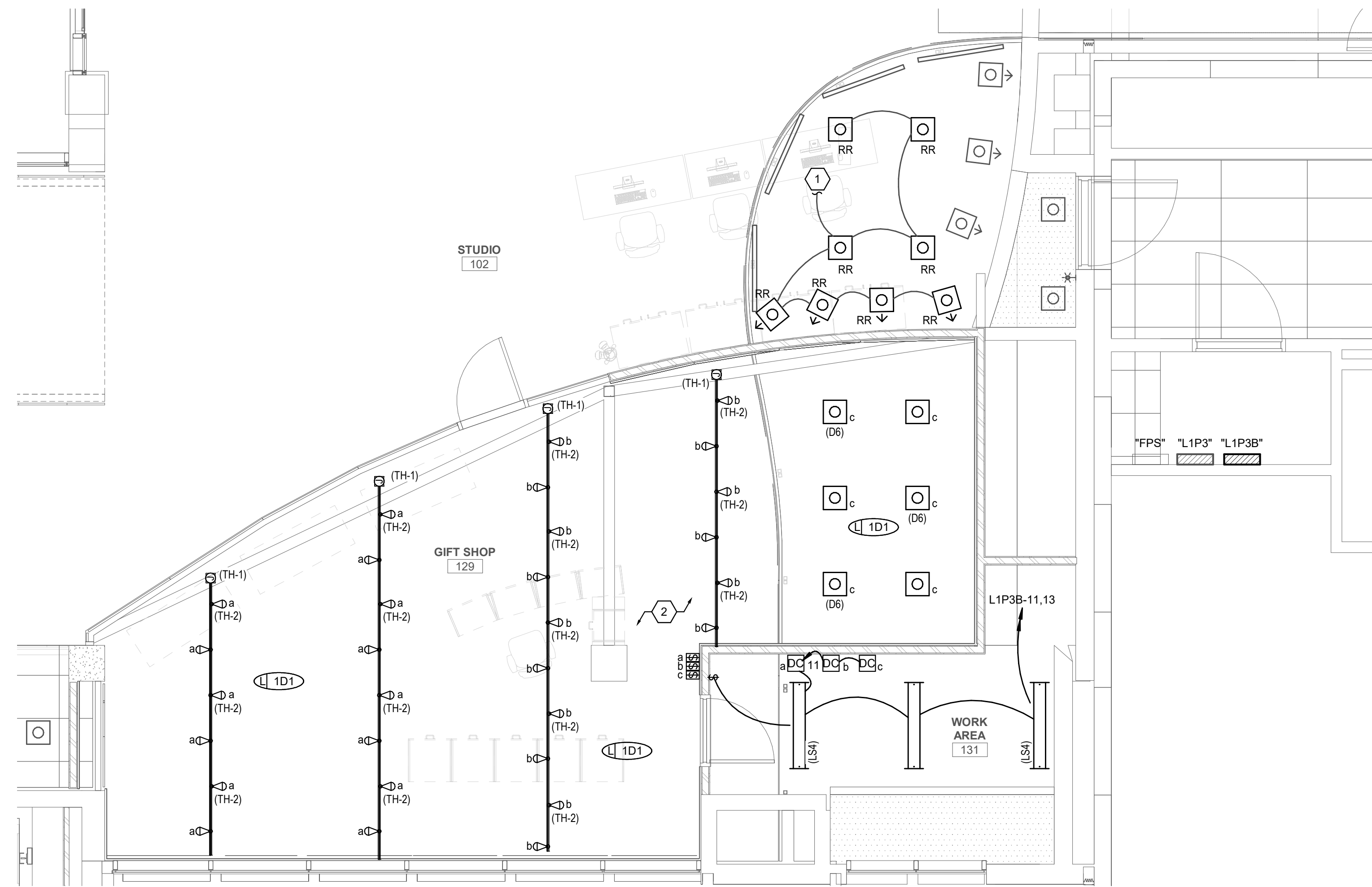
VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:			
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS		SURFACE	ELEC. CLOSET A119				
ACCESSORIES:			AIC RATING: 0						
PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR									
CKT NO	AMP	POLE	OCB	LOAD (KVA)	PHASE LOAD	DESCRIPTION	LOAD (KVA)	OCB	CKT NO
					A B C				
1	20	1		0.0 0.0 1.1		CO WORK AREA 131			1 20 2
3	20	1		0.0 0.0 5.2		CO ROOM 129, 102			1 20 4
5	20	1		0.0 0.0 9.6		CO GIFT SHOP 129			1 20 6
7	20	1		0.0 0.0 1.1		CO STUDIO 102			1 20 8
9	20	1		0.0 0.0 0.2		CO STUDIO 102			1 20 10
11	20	1		0.0 0.0 0.0		LIGHTING GIFT SHOP 129			1 20 12
13	20	1		0.3 0.0 0.0		LIGHTING WORK AREA 131			1 20 14
15	20	1		0.0 0.0 0.2		CO GIFT SHOP 129			1 20 16
17	20	1		-- -- --		SPARE			1 20 18
19	20	1		-- -- --		SPARE			1 20 20
21	20	1		-- -- --		SPARE			1 20 22
23	20	1		-- -- --		SPARE			1 20 24
25	20	1		-- -- --		SPARE			1 20 26
27	20	1		-- -- --		SPARE			1 20 28
29	20	1		-- -- --		SPARE			1 20 30
31	20	1		-- -- --		SPARE			1 20 32
33	20	1		-- -- --		SPARE			1 20 34
35	20	1		-- -- --		SPARE			1 20 36
37	20	1		-- -- --		SPARE			1 20 38
39	20	1		-- -- --		SPARE			1 20 40
41	20	1		-- -- --		SPARE			1 20 42
TOTALS:				CONNECTED KVA PER PHASE	2 6 10	CONNECTED TOTAL KVA =	18		
				CONNECTED AMPS PER PHASE	20 50 84	AVERAGE CONNECTED AMPS PER PHASE =	49		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: 0.3 kVA @ 125% = 0.4 kVA - 100% CONNECTED LOAD PLUS 25% DIVERSIFIED TOTAL KVA = 14
 RECEPTACLES: 17.3 kVA @ 75% = 13.6 kVA - FIRST 10kVA @ 100%, REMAINDER @ 50% AVERAGE AMPS PER PHASE = 39
 ALL OTHER LOADS @ 100%: 0.0 kVA * MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH * LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCL, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCL, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI





1 LEVEL 1 LIGHTING PLAN - GIFT SHOP
SCALE: 1/4" = 1'-0"

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GENERAL SHEET NOTES

SHEET KEYNOTES

- 1 CONNECT TO THE EXISTING CIRCUIT AND CONTROLS THAT PREVIOUSLY FED THIS CEILING.
- 2 CONTRACTOR TO INSTALL ROOM CONTROLLERS AND POWER SUPPLIES ABOVE CEILING IN WORK ROOM.



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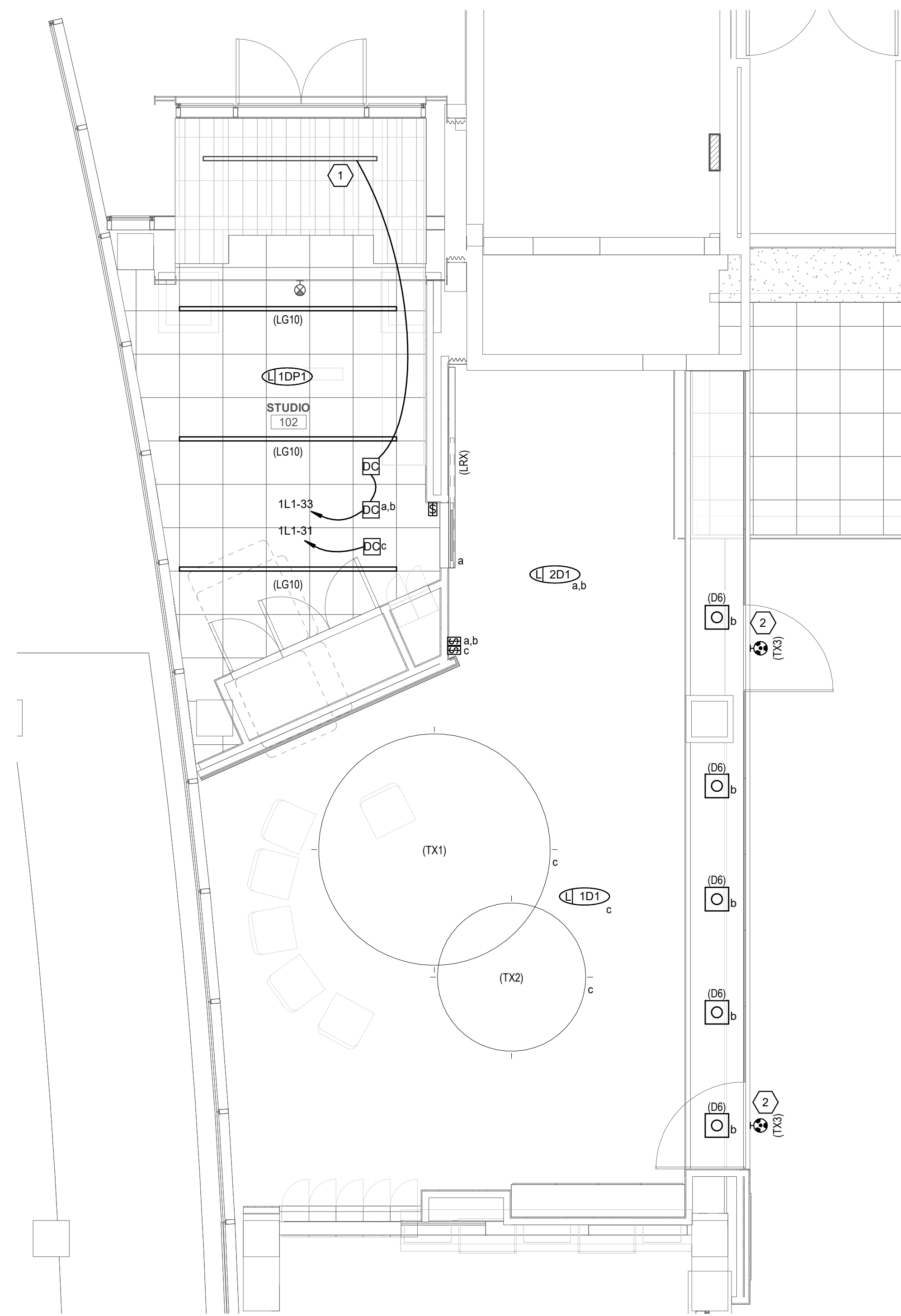
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LEVEL 1
LIGHTING
PLAN - PHASE
1

EL101

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1 LEVEL 1 LIGHTING PLAN - STUDIO
 SCALE: 1/4" = 1'-0"

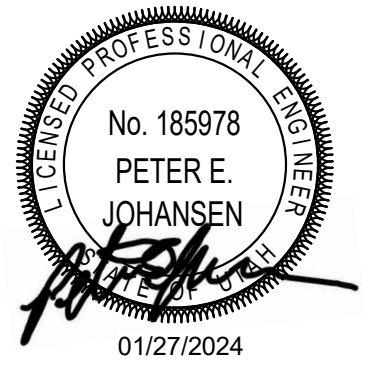
GENERAL SHEET NOTES

SHEET KEYNOTES

- 1 CONNECT THE EXISTING FIXTURE TO THE NEW CIRCUIT AND CONTROLS FEEDING THE STUDIO OFFICE.
- 2 PROVIDE CONTROL CABLING FOR IN-USE FIXTURES TO THE AV CLOSET. CONNECT TO THE NEAREST 120V CIRCUIT.



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LEVEL 1
LIGHTING
PLAN - PHASE
2

EL102



INTERIOR LIGHTING FIXTURE SCHEDULE

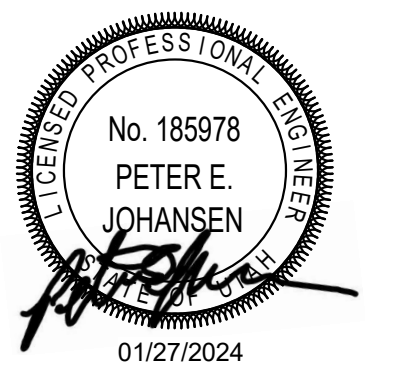
GENERAL NOTES

1. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING. THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.
7. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

ID	DESCRIPTION	SIZE (NOMINAL)	LUMINAIRE			DRIVER			MANUFACTURER (CATALOG SERIES)
			LUMENS	COLOR TEMP	CRI	TYPE	VOLTAGE	WATTS	
(D6)	DESCRIPTION: 6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR MOUNTING, CEILING, RECESSED FINISH: WHITE TRIM FINISH OPTICS: - OPTIONS: - EM: -	LENGTH: - WIDTH: - DEPTH: - DIAMETER: 6" - 6"	1,500	3500K		0-10V DIMMING (1%)	120/277	19	GOTHAM (EVO 3515 AIR LESS MWID MVOLT G21 TRW) HALO (HC615D010HM812835 61MDHWF) LIGHTOLIER (6RNP6RDL15835CCZ10U)
(LG10)	DESCRIPTION: 4" X 10" LINEAR RECESSED SLOT, GRID MOUNT MOUNTING, CEILING, RECESSED FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: 10' - 0" WIDTH: 0' - 4" DEPTH: -	5,000	3500K		0-10V DIMMING (1%)	120/277	60	PINNACLE (E4A-835-10-GX-U-OL1-1-W) NEORAY (S124DR) MARK LIGHTING (SL4L)
(LRX)	DESCRIPTION: LINEAR LED, WALL RECESSED, VERIFY LENGTH ON DRAWINGS, WHITE TRIM FINISH, 375 LUMENS/FT MOUNTING, CEILING, RECESSED FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: VAR WIDTH: 0' - 5" DEPTH: -	375	3500K		0-10V DIMMING (1%)	120/277	6	PINNACLE (E4A-835-XX-U) LEDALITE (TRUGROVE-39-0-8-L-935-15-Q-2-XX)
(LS4)	DESCRIPTION: 4' LED STRIP LIGHT MOUNTING, CEILING, SURFACE FINISH: WHITE FINISH OPTICS: - OPTIONS: - EM: -	LENGTH: 4' - 0" WIDTH: - DEPTH: -	3,000	3500K		NO DIMMING	120/277	42	LITHONIA (ZL1D) DAYBRITE (FSS 4 30L 835 UNV DIM) METALUX (4SNLED-LD4-30SL-LW-UNV-L840-CD1-U)
(TH-1)	DESCRIPTION: WIRE TRACK LIGHTING, CONTRACTOR TO PROVIDE LED LAMPS, DRIVERS, ANCHORS AND ALL NECESSARY COMPONENTS TO COMPLETE LIGHTING INSTALL MOUNTING: SURFACE FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: VAR WIDTH: 1.5" DEPTH: 3/4"					120/277	0	CABLE: PRIMA LIGHTING (SKU 31-88812) ANCHORS: PRIMA LIGHTING (31-88831) POWER FEED: PRIMA LIGHTING (SKU 31-JBP) DRIVER: PRIMA LIGHTING (39-CV100D-24) LAMPS: MR16 LED BULBS 3500K
(TH-2)	DESCRIPTION: DUAL AXIS CABLE FIXTURE MOUNTING, TRACK AND CABLE FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: - WIDTH: - DEPTH: 2.28" DIAMETER: 7.48"	525	3000K		0-10V DIMMING (10%)	120/277V	8	PRIMA LIGHTING (44360-41-LD-PC)
(TX1)	DESCRIPTION: 10' LED HALO RING PENDANT, COORDINATE SUSPENSION HEIGHT WITH ARCHITECT DURING CONSTRUCTION, IF THE FIXTURE IS SUSPENDED OVER 48" PROVIDE SEISMIC BRACING MOUNTING: CEILING PENDANT FINISH: SCBA OPTICS: - OPTIONS: - EM: -	DIAMETER: 120"	16,900	3500K		0-10V DIMMING (1%)	120/277V	305	OCL (TW1-P1EM-120-MW-BAL-LED2-35K-UNV-144-DM1) STRUCTURA (AURA-RNG-DI-10-1-35-HO-SXX-CEI-STD) LIGHTART (LA2-CON-RING-10D-4H-STD-STM-WPC-BK)
(TX2)	DESCRIPTION: 8' LED HALO RING PENDANT, COORDINATE SUSPENSION HEIGHT WITH ARCHITECT DURING CONSTRUCTION, IF THE FIXTURE IS SUSPENDED OVER 48" PROVIDE SEISMIC BRACING MOUNTING: CEILING PENDANT FINISH: SCBA OPTICS: - OPTIONS: - EM: -	DIAMETER: 96"	13,400	3500K		0-10V DIMMING (1%)	120/277V	245	OCL (TW1-P1EM-96-MW-BAL-LED2-35K-UNV-144-DM1) STRUCTURA (AURA-RNG-DI-8-L35-HO-SXX-CEI-STD) LIGHTART (LA2-CON-RING-8D-4H-STD-STM-WPC-BK)
(TX3)	DESCRIPTION: BROADCASTING ON-AIR LIGHT, OWNER FURNISHED CONTRACTOR INSTALLED MOUNTING: WALL FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: - WIDTH: - DEPTH: -				NO DIMMING	120/277	3	OWNER FURNISHED

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LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND		APPROVED MANUFACTURERS		LIGHTING CONTROL ID		GENERAL NOTES		GENERAL NOTES												
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING CATSE CABLING ----- WIRING BY OTHERS ○---○ TMP SEGMENT ○---○ NETWORK CABLING		1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBELL BUILDING AUTOMATION 4. GREENGATE		1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE		1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.		5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS; CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.												
ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES	
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER"										
1DP1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP, "ON/RAISE" BOTTOM-"OFF"/LOWER"										
2D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS TOP-ON, PRESS BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM-"OFF"/LOWER"	FUNCTION: PRESET SCENE #01 ZONE "a" 75% LABEL ID: "PRE #1"	FUNCTION: PRESET SCENE #02 ZONE "b" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	-	

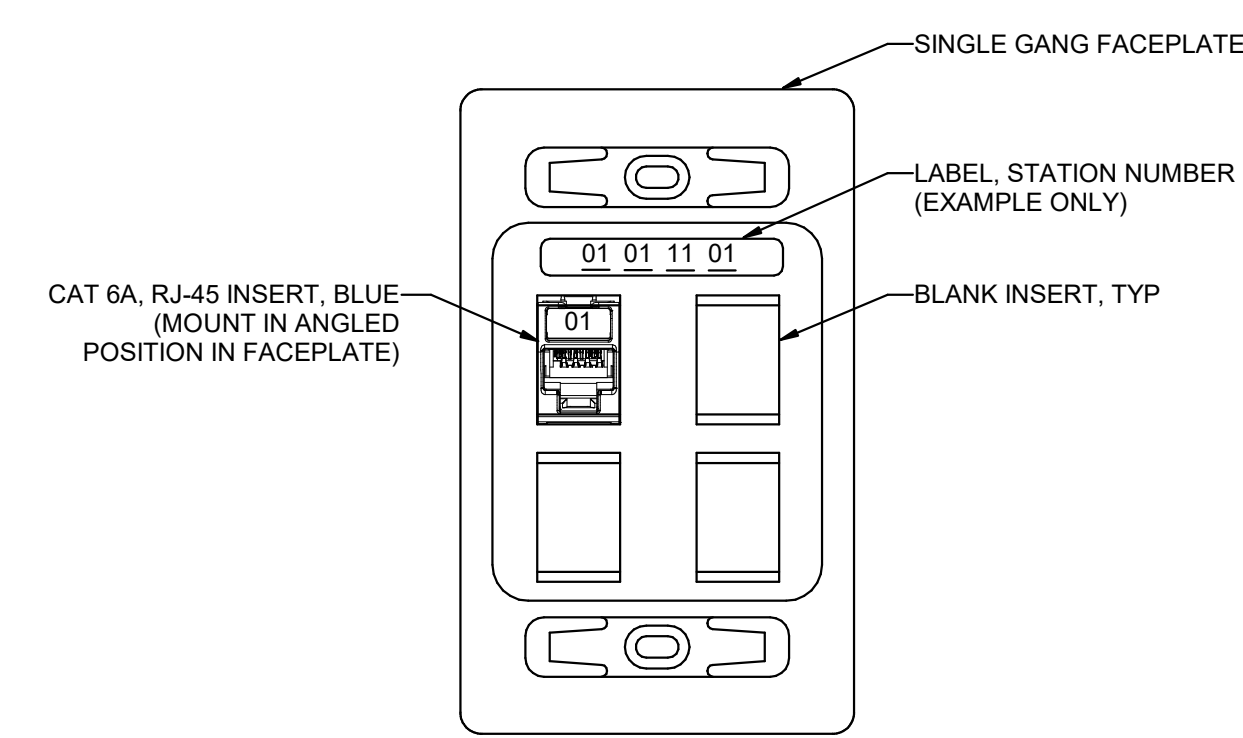
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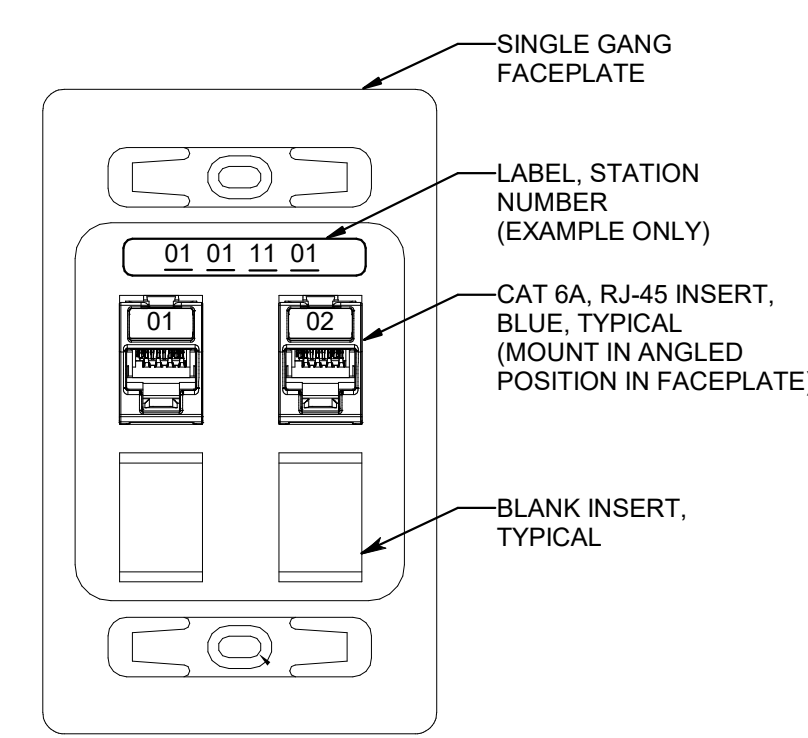
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LIGHTING CONTROL SCHEDULES

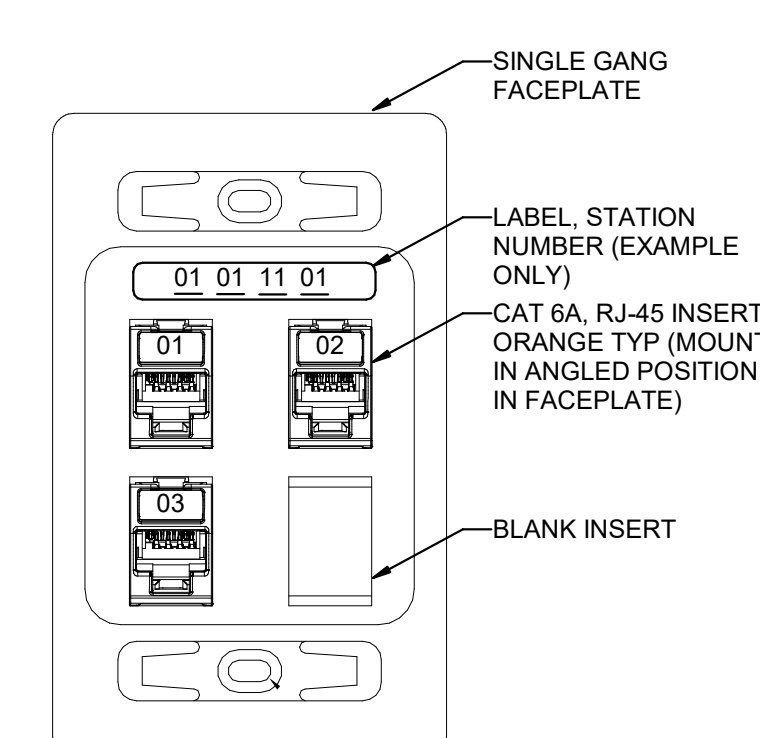
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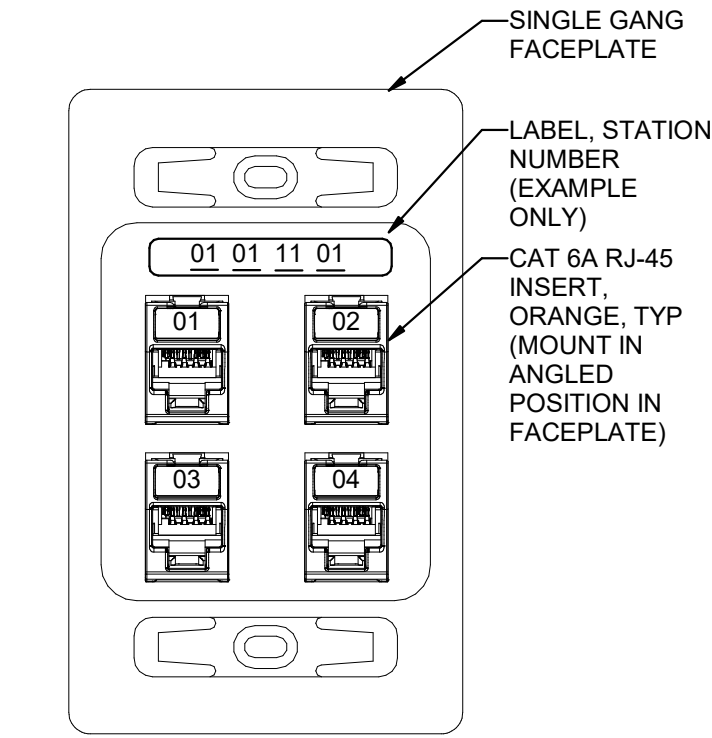
7 TYPICAL 1-PORT WALL DATA OUTLET
SCALE: NTS



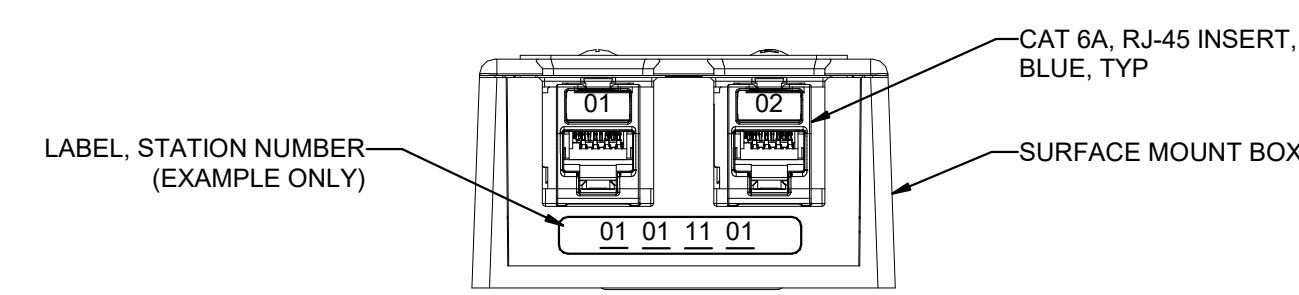
8 TYPICAL 2-PORT WALL DATA OUTLET
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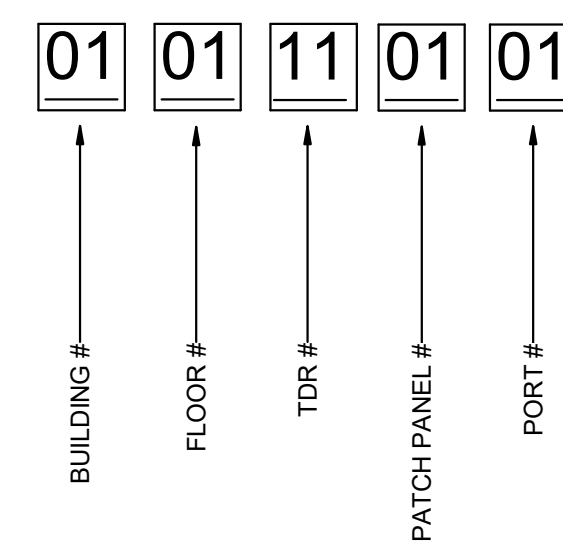
9 TYPICAL 3-PORT PHYS MON WALL DATA OUTLET
SCALE: NTS



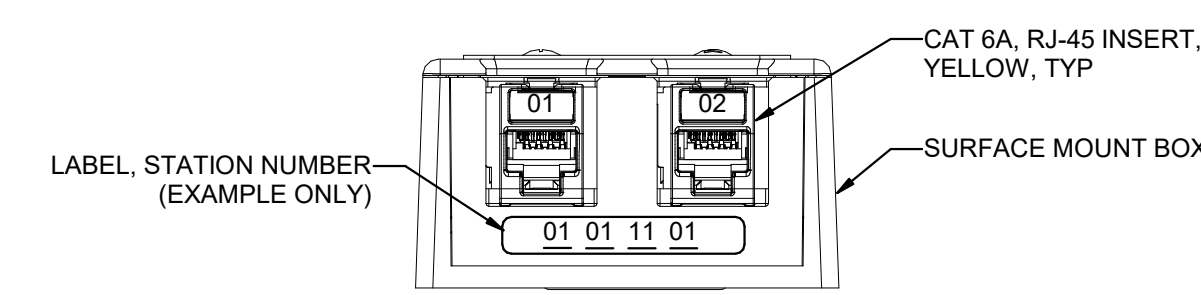
10 TYPICAL 4-PORT PHYS MON WALL DATA OUTLET
SCALE: NTS



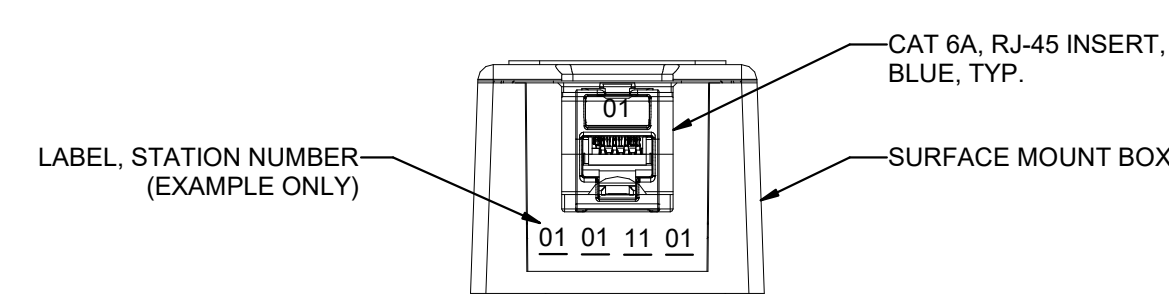
4 TYPICAL 2-PORT CEILING DATA
SCALE: 1/8" = 1'-0"



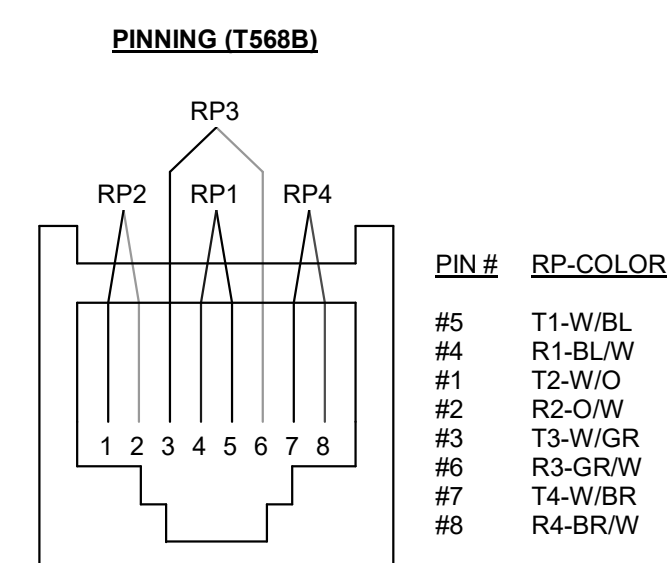
5 TYPICAL CABLE ID EXAMPLE DETAIL
SCALE: 1/8" = 1'-0"



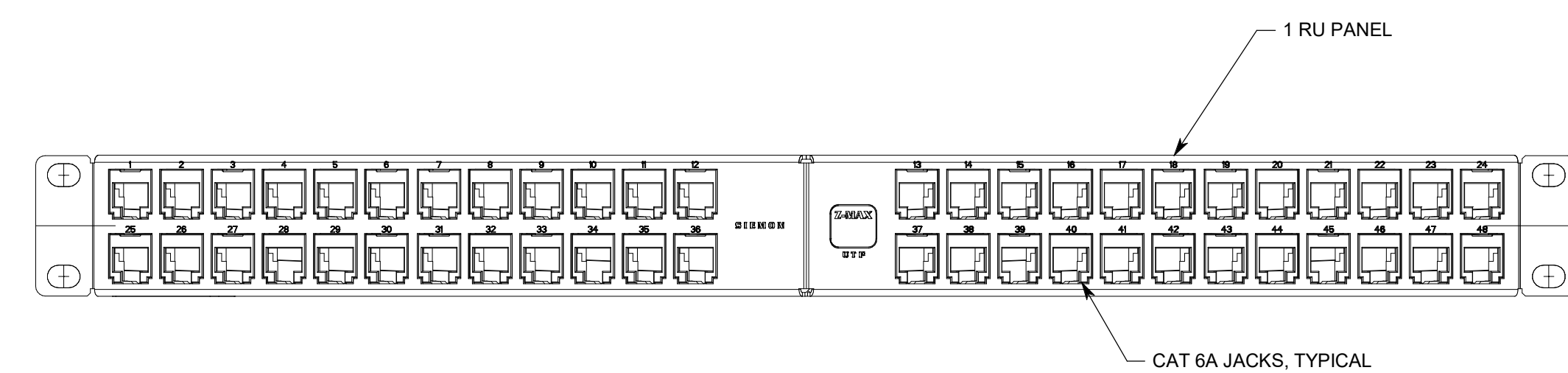
6 TYPICAL 2-PORT WIRELESS ACCESS POINT
SCALE: 1/8" = 1'-0"



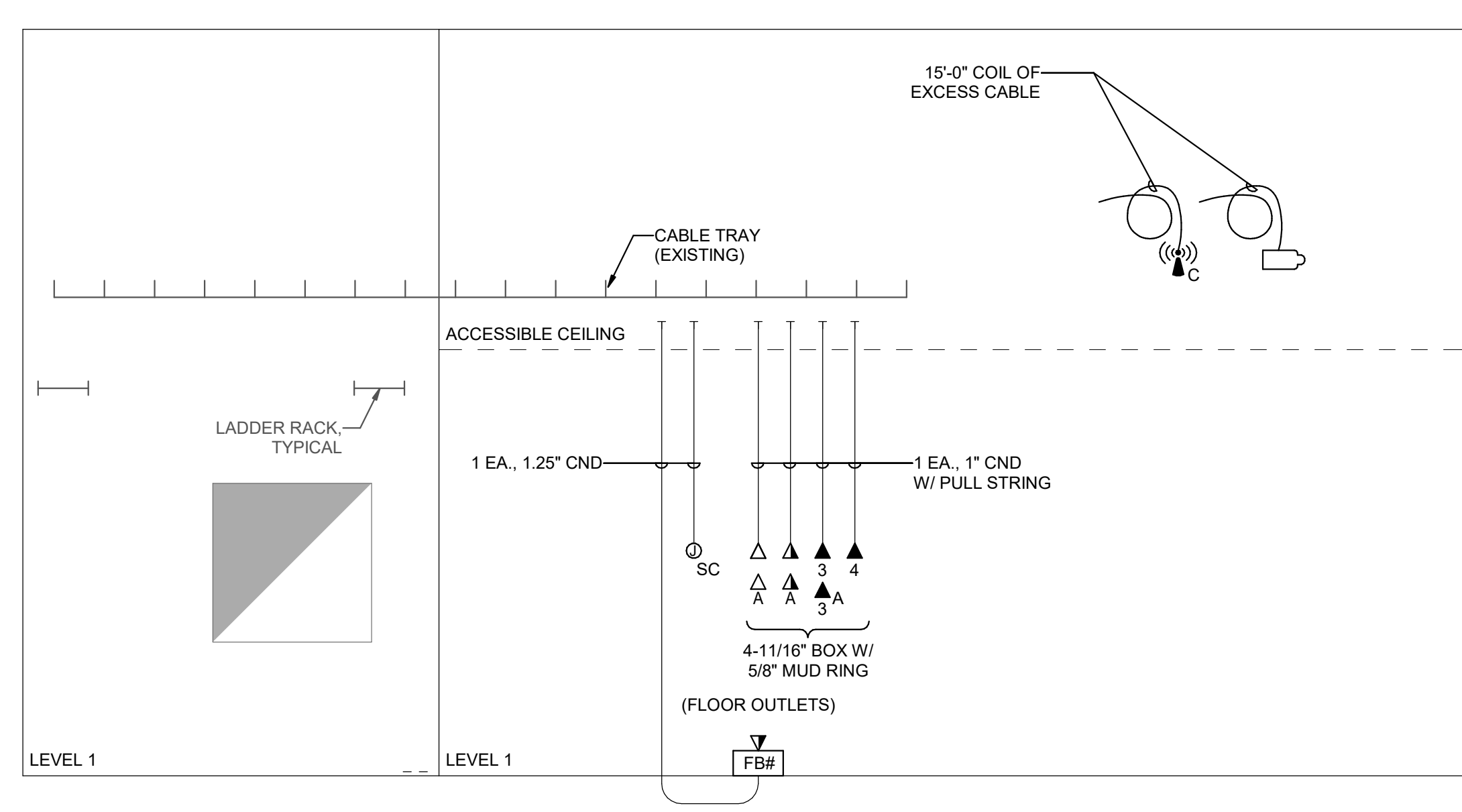
1 TYPICAL 1-PORT POE & CAMERA DATA OUTLET
SCALE: 1/8" = 1'-0"



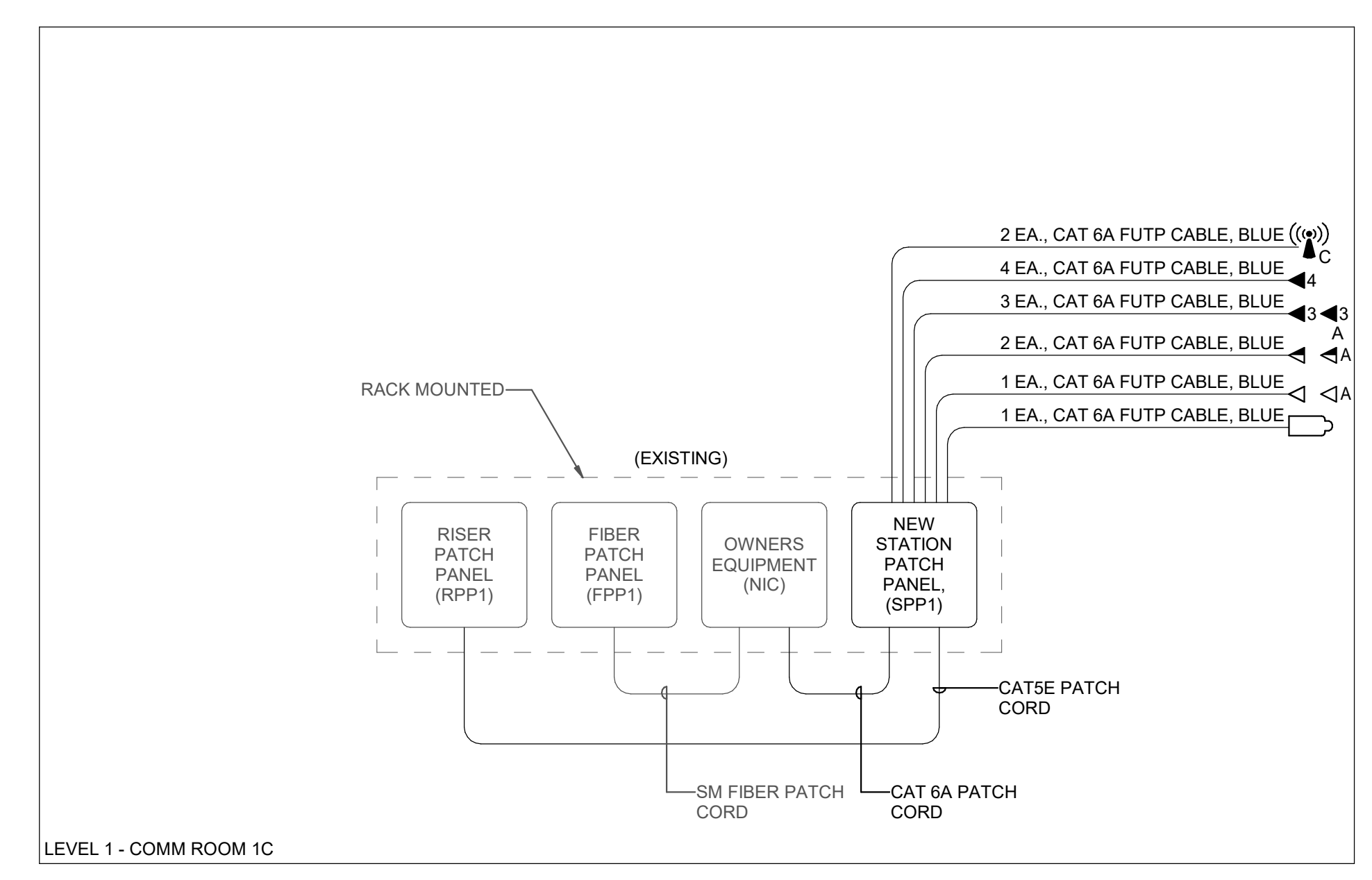
2 TYPICAL VOICE/DATA OUTLET PINNING DETAIL
SCALE: 1/8" = 1'-0"



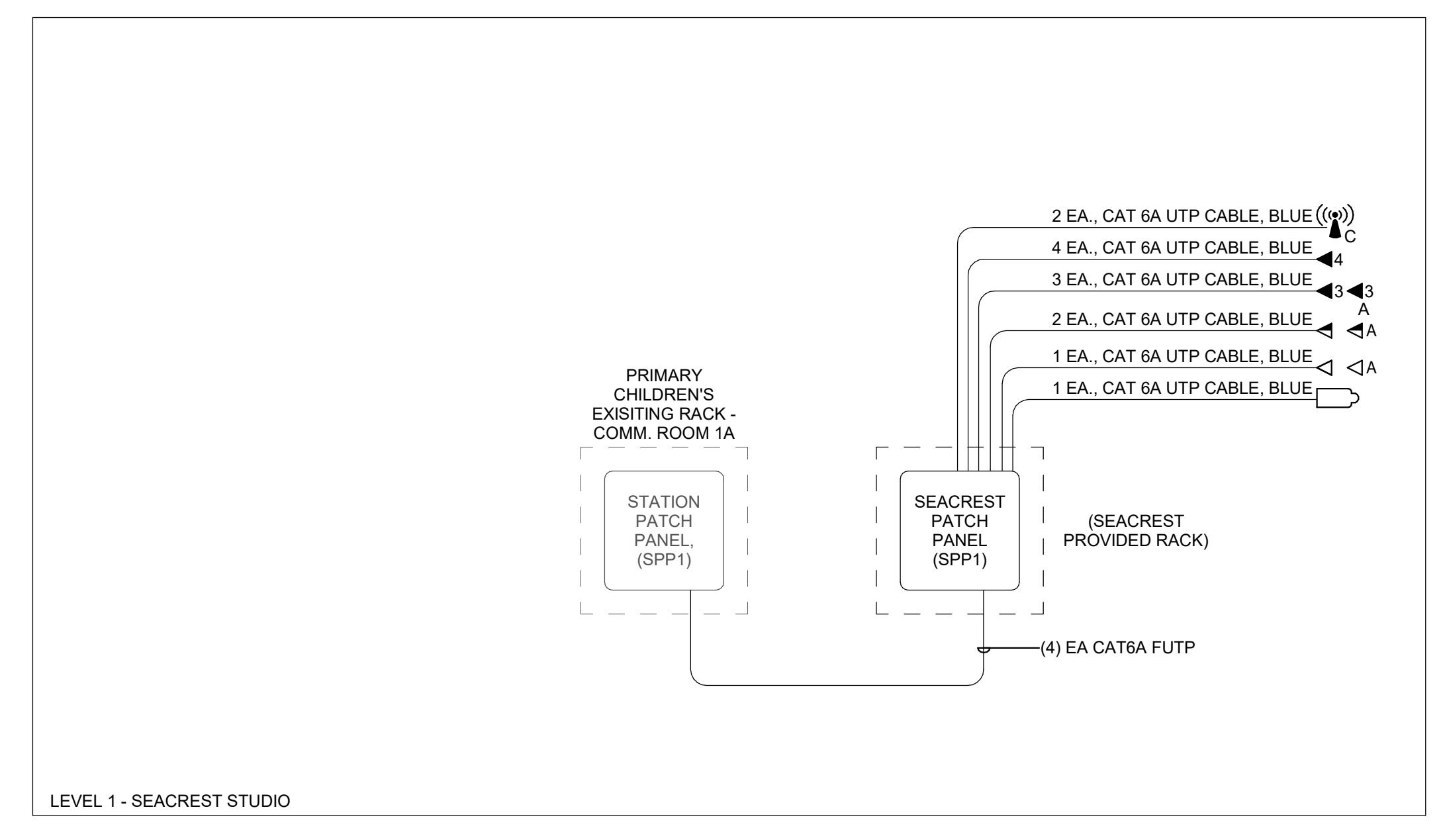
3 STATION PATCH PANEL (SPP1) DETAIL, TDR
SCALE: 1/8" = 1'-0"



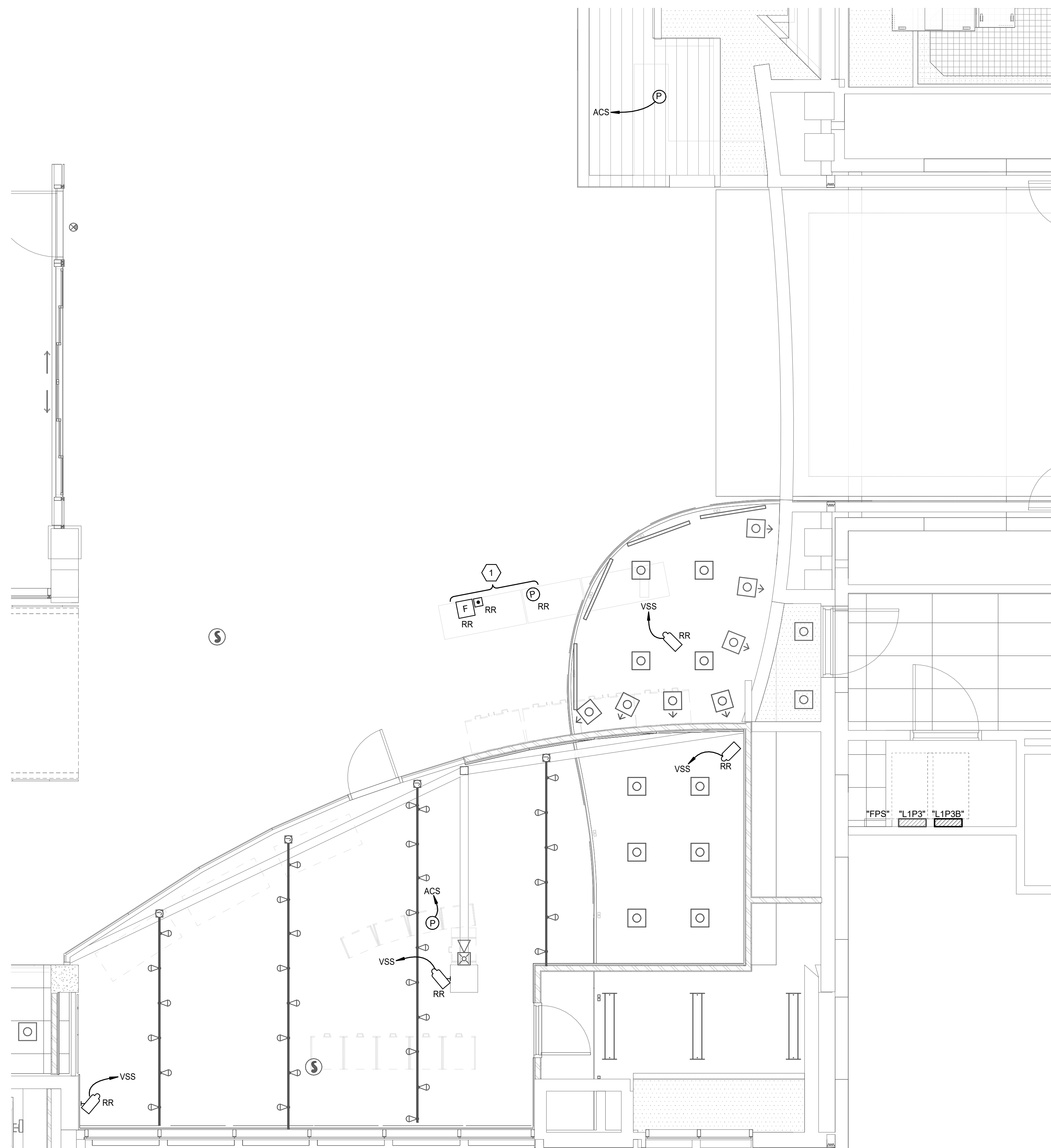
1 TELECOM CONDUIT RISER DIAGRAM
SCALE: 1/8" = 1'-0"



3 GIFTSHOP TELECOM CABLE RISER DIAGRAM
SCALE: 1/8" = 1'-0"



2 SEACREST STUDIO TELECOM CABLE RISER DIAGRAM
SCALE: 1/8" = 1'-0"



1 LEVEL 1 AUXILIARY PLAN - GIFT SHOP
SCALE: 1/4" = 1'-0"

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GENERAL SHEET NOTES

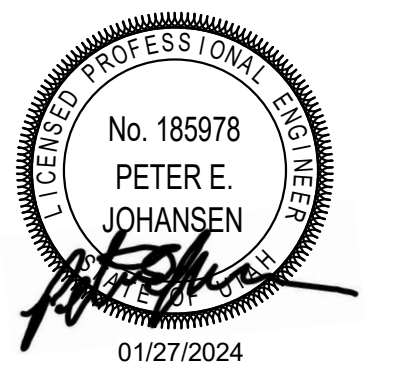
1 ALL CAMERAS WILL BE OWNER FURNISHED CONSTRUCTOR INSTALLED.

SHEET KEYNOTES

1 EXTEND THE SYSTEMS WIRING FOR THE FIRE ALARM PULL STATION, DOOR RELEASE, AND PANIC HARDWARE TO THE NEW RECEPTION DESK.



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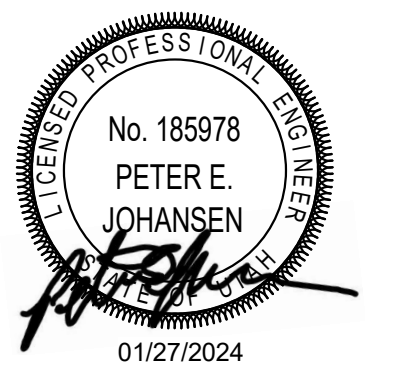
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LEVEL 1
AUXILIARY
PLAN - PHASE
1

EY101

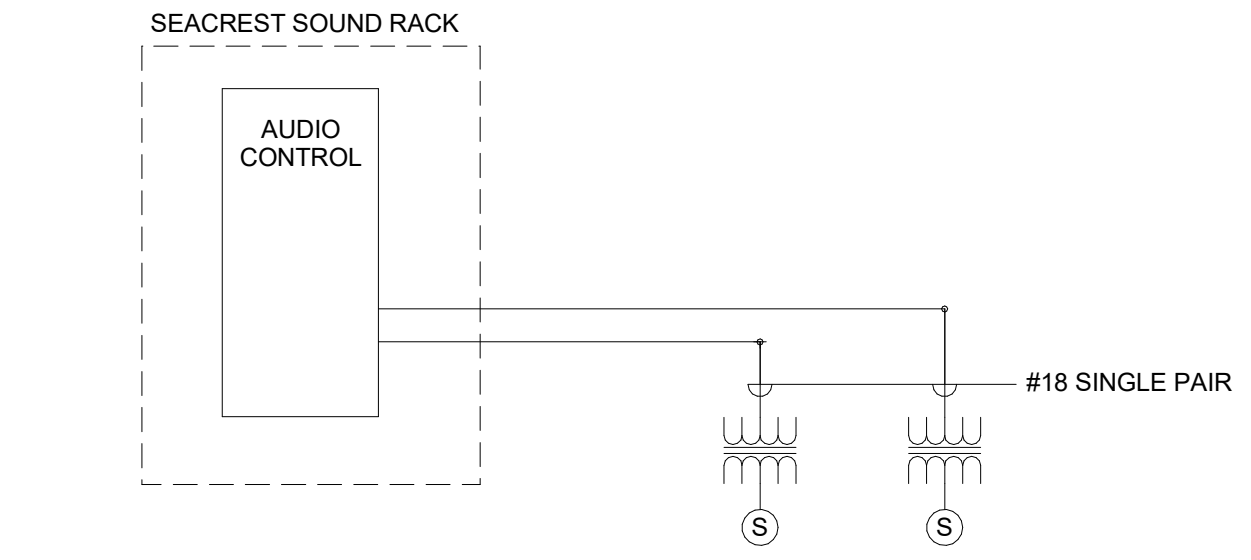


GENERAL SHEET NOTES

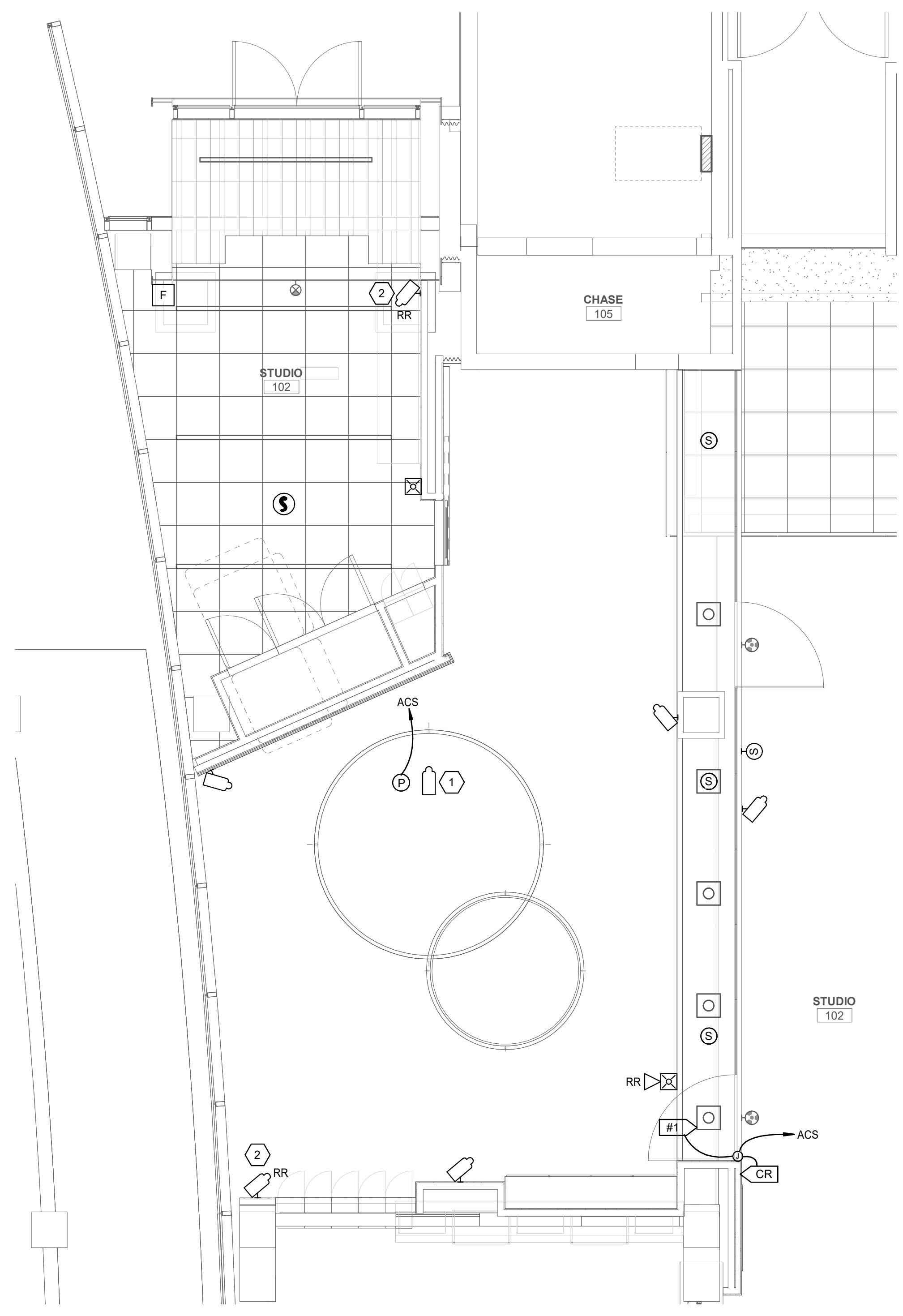
- 1 ALL CAMERAS WILL BE OWNER FURNISHED CONSTRUCTOR INSTALLED.

SHEET KEYNOTES

- 1 CAMERA LOCATED IN DESK.
- 2 REMOVE AND RELOCATE CAMERA. EXTEND SYSTEMS WIRING AS NEEDED.



2 Seacrest Speaker Riser Diagram
SCALE: NTS



1 LEVEL 1 AUXILIARY PLAN - STUDIO
SCALE: 1/4" = 1'-0"

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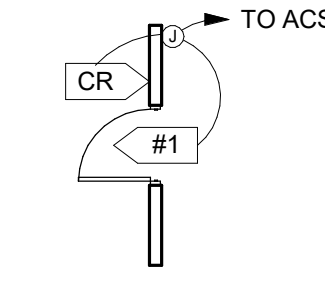
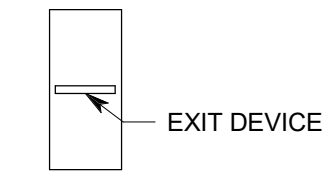
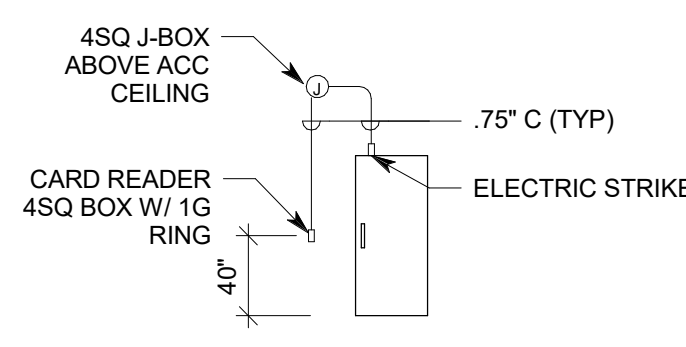
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LEVEL 1
AUXILIARY
PLAN - PHASE
2

EY102

ELECTRIFIED HARDWARE DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		SINGLE DOOR W/ CARD READER. FREE EGRESS			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • CR HARDWARE CONTRACTOR PROVIDES: • ES, FH LOCK CONTROLLED BY: • CR, ED
	HARDWARE SETS: 4.0					

NOTES

1. PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
3. CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 9 DOOR HARDWARE SPECIFICATIONS.
4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
5. DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
6. ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV. 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

1G	=	1-GANG OR SINGLE GANG
4SQ	=	FOUR SQUARE JUNCTION BOX
AO	=	AUTO OPENER
A/R	=	AS REQUIRED
ACC	=	ACCESSIBLE
ACS	=	ACCESS CONTROL SYSTEM CONTROLLER
ADA	=	ASSISTED DISABILITY OPENER
AED	=	ELECTRIC EXIT DEVICE/CR COMBO ON DOOR
AEL	=	ELECTRIC LOCK/CR COMBO ON DOOR
C	=	CONDUIT
CI	=	DOOR CONTACT INDICATOR SWITCH
CR	=	CARD READER
DH	=	DOOR HARNESS
DBL	=	DOUBLE
DED	=	DELAYED EXIT DEVICE
DIR	=	DIRECTION
ED	=	EXIT DEVICE
EH	=	ELECTRIC HINGE
EL	=	ELECTRIC LOCKSET
ES	=	ELECTRIC STRIKE
EDL	=	ELECTRIC DEADLATCH
EED	=	ELECTRIFIED EXIT DEVICE
ELC	=	EMERGENCY LOCK CONTROL
EPT	=	ELECTRIC POWER TRANSFER
FA	=	FIRE ALARM SYSTEM
FH	=	FRAME HARNESS
HDWR	=	HARDWARE
IDS	=	INTRUSION DETECTION SYSTEM
KS	=	KEY SWITCH
LS	=	LOCK INDICATOR SWITCH IN HARDWARE
LX	=	PANIC HARDWARE LATCH POSITION SWITCH
LPS	=	LOCK POWER SUPPLY
MD	=	MOTION DETECTOR
ML	=	ELECTROMAGNETIC LOCK
OCC	=	OCCUPANCY
OPF	=	OBTAIN FROM PLANS
PB	=	PUSH BUTTON RELEASE
PH	=	PANIC HARDWARE
PP	=	PUSH PAD ACTUATOR
PS	=	POWER SUPPLY
PED	=	POE EXIT DEVICE
PEL	=	POE ELECTRIC LOCKSET
PIB	=	INTERFACE BOARD FOR COMBO LOCKING HARDWARE
PWR	=	POWER
QTY	=	QUANTITY
RS	=	REMOTE OPEN SWITCH
REX	=	REQUEST TO EXIT SWITCH/FUNCTION
TLC	=	TIME/SYSTEM LOCK CONTROL
TYP	=	TYPICAL
W	=	WITH



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Intermountain Healthcare
 Primary Children's Hospital
 Gift Shop

Street Address
 City, State Zip

NJRA Project # 22221.00
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SECURITY
DIAGRAMS

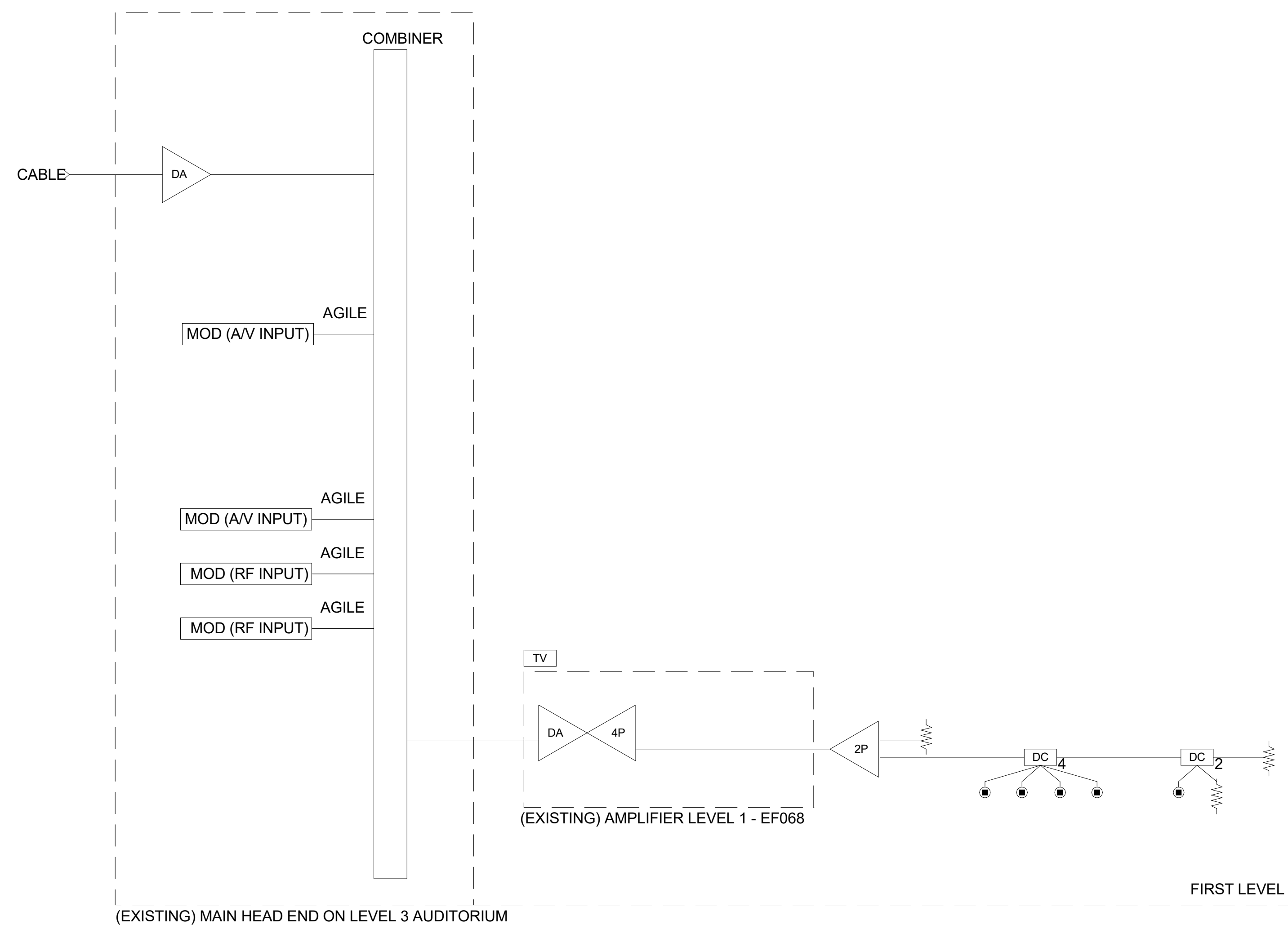
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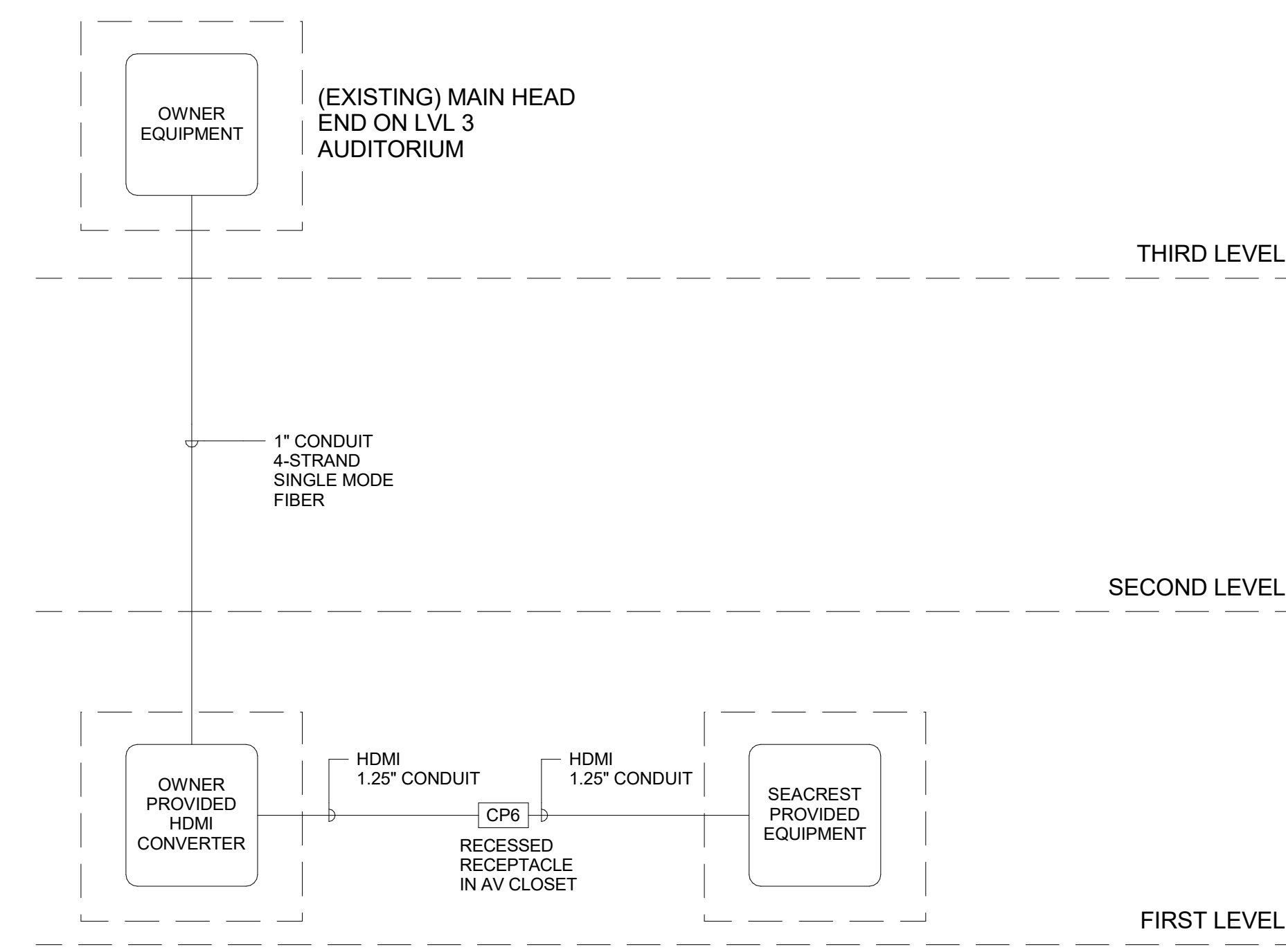
SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	QTY	ACCEPTABLE TYPES
TV	EQUIPMENT RACK SYSTEMS TV - TV DISTRIBUTION	OFF	BLONDER TONGUE RACK - RR2180
2P 4P	MULTI PORT SPLITTER 2 PORT, 4 PORT	OFF	BLONDER TONGUE XRS SERIES
DA	BROADBAND DISTRIBUTION AMPLIFIER	OFF	BLONDER TONGUE BIDA 75A-43
DC (X)	DIRECTIONAL COUPLER (MULTI PORT)	OFF	BLONDER TONGUE SRT, SRT-2A, SRT-4A, SRT-8A
TV	TV OUTLET	OFF	SEE DETAIL
75Ω	RF TERMINATOR	OFF	75 OHM TERMINATOR
MOD	MODULATOR (RF INPUT)	OFF	BLONDER TONGUE AP 60-860A
MOD	MODULATOR (AV INPUT)	OFF	BLONDER TONGUE AM-60-550
PAD	ATTENUATOR	OFF	BLONDER TONGUE FAF/FAM SERIES
COMBINER	CHANNEL COMBINER	OFF	BLONDER TONGUE OC SERIES (PASSIVE)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER	OFF	EFI PT-2000

A/R = AS REQUIRED
OFF = OBTAIN FROM PLANS



1 TV DISTRIBUTION SINGLE LINE DIAGRAM
NO SCALE



2 SYTSEMS RISER DIAGRAM
NO SCALE