

**ADDENDUM NO. 2****Date of Issue: 1 February 2022**

Project: Renovations to Building 1000 Surgical Technology Lab  
Client: Horry-Georgetown Technical College  
State Project No.: H59-N085-PG  
DA Project No.: 21-106  
Prepared by: Doyle Architecture, LLC  
315 Main Street, Suite 2B  
Conway, South Carolina, 29526

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**TO ALL BIDDERS OF RECORD:**

The following items shall take precedence over the drawings and specifications for the above-named project and shall become part of the Contract Documents. Where any item called for in the specifications or indicated on the drawings is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided or superseded hereby, the provisions of such item not specifically amended, voided or superseded, shall remain in effect.

1. **CLARIFICATION:** A101-2017, Exhibit A, A3.1.3: The paragraph does not require a specific form. It requires the additional insured coverage be “no less than that provided” on the 07 04 forms.
2. **CLARIFICATION:** A101-2017, Exhibit A, A3.2.2.2.4: The provision referenced indicates the policy shall not contain this exclusion. The requirement is standard AIA A101 contract language.
3. **CLARIFICATION:** Bidders are reminded to acknowledge receipt of the addenda on the Bid form.

**PROJECT MANUAL:**

4. Section 08 8000 – Glazing
  - A. **DELETE** 1.01.B in its entirety.
  - B. **DELETE** 1.04.C in its entirety.
  - C. **DELETE** 2.04 in its entirety.
  - D. **DELETE** 3.05 in its entirety.

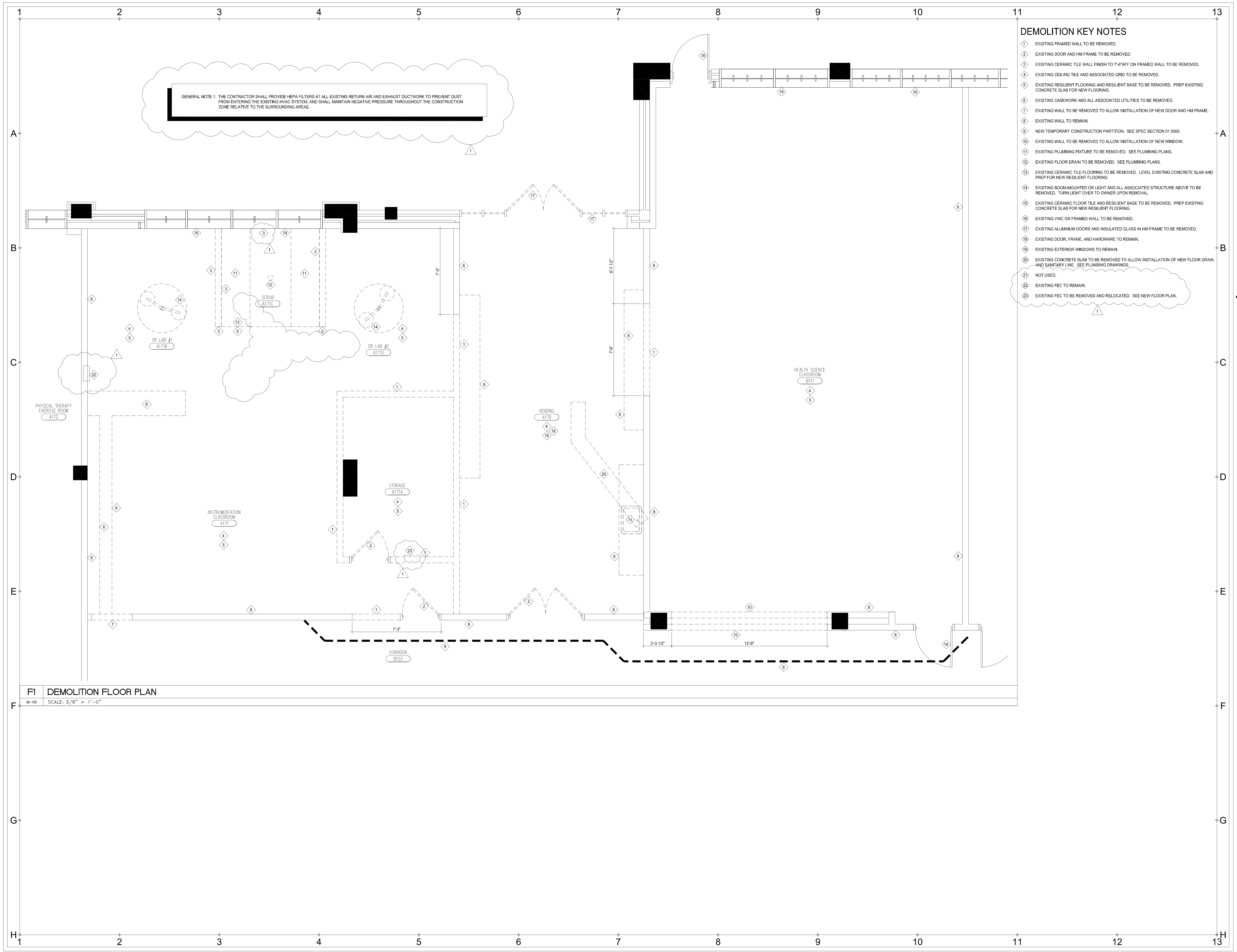
**DRAWINGS:**

5. Sheet AD-100: Demolition Key Notes
  - A. **DELETE** Keynote 21 as shown on the revised Sheet AD-100 included with this Addendum.

- A. **ADD** Keynote 22 to read, “Existing FEC to remain” as shown on the revised Sheet AD-100 included with this Addendum.
  - B. **ADD** Keynote 23 to read, “Existing FEC to be removed and relocated. See New Floor Plan” as shown on the revised Sheet AD-100 included with this Addendum.
6. Sheet AD-100: Demolition Floor Plan
- A. **ADD** Keynote 22 to indicate existing FEC to remain as shown on the revised Sheet AD-100 included with this Addendum.
  - B. **ADD** Keynote 23 to indicate the existing FEC that is to be removed and relocated as shown on the revised Sheet AD-100 issued with this Addendum.
  - C. **ADD** General Note 1 that reads, “The Contractor shall provide HEPA filters at all existing return air and exhaust ductwork to prevent dust from entering the existing HVAC system, and shall maintain negative pressure throughout the construction zone relative to the surrounding areas” as shown on the revised Sheet AD-100 included with this Addendum.
  - D. **DELETE** area of existing concrete slab to be removed near Scrub A171C as shown on the revised Sheet AD-100 included with this Addendum.
7. Sheet A-100: Responsibility Matrix
- A. **ADD** a line item indicating Movable Furniture and Equipment as shown on the revised Sheet A-100 included with this Addendum.
8. Sheet A-100: New Floor Plan
- A. **DELETE** the note referring to plastic film in OR Lab #1 as shown on the revised Sheet A-100 included with this Addendum.
  - B. **ADD** the relocated FEC as shown on the revised Sheet A-100 issued with this Addendum.
  - C. **ADD** the FEC that is existing to remain as shown on the revised Sheet A-100 issued with this Addendum.
  - D. **DELETE** the area of new concrete slab infill in Instrumentation Classroom A171C as shown on the revised Sheet A-100 issued with this Addendum.
9. Sheet A-120: Furniture & Equipment Plan
- A. **ADD** a note clarifying the contractor’s responsibility regarding furniture and equipment as shown on the revised Sheet A-120 issued with this addendum.
10. Sheet FP1.0: Fire Protection Plan
- A. **CHANGE** the note in the plan to read, “Modify existing fire sprinkler system for all hatched areas” as shown on the revised Sheet FP1.0 issued with this addendum.

11. Sheet FP1.0: Sprinkler Scope of Work notes
  - A. **ADD** Note 7 to read, “Modify the existing fire sprinkler system to accommodate the new floor plan” as shown on the revised Sheet FP1.0 issued with this addendum.
  
12. Sheet FP1.0: General Fire Protection Notes
  - A. **CHANGE** Note G to read, “Sprinkler Piping – Match existing piping type. Contractor shall provide a system that is code compliant, despite what is existing” as shown on the revised Sheet FP1.0 issued with this addendum.
  
13. Sheet M1.0: Mechanical General Demolition Notes
  - A. **DELETE** Note 2 in its entirety as shown on the revised Sheet M1.0 issued with this addendum.
  - B. **DELETE** Note 4.4 in its entirety
  
14. Sheet M2.0: Plan Key Notes
  - A. **ADD** Key Note 4 to read, “Contractor shall use Owner’s temperature controls contractor: CMI” as shown on the revised Sheet M2.0 issued with this addendum.
  - B. **ADD** Key Note 5 to read, “Existing RTU units to remain” as shown on the revised Sheet M2.0 issued with this addendum.
  
15. Sheet M2.0: HVAC Plan
  - A. **ADD** Key Note 4 and Key Note 5 at each RTU location as shown on the revised Sheet M2.0 issued with this addendum.
  
16. Sheet E1.0: General Electrical Demolition Notes
  - A. **CHANGE** Note 14 to read, “Existing panelboards: Existing panelboards are to remain energized” as shown on the revised Sheet E1.0 issued with this addendum.
  
17. Sheet E2.0: General Electrical Notes
  - A. **ADD** Note 19 to read, “The electrical contractor to provide power to each camera location, and data conduit with backboxes for signal wire by others” as shown on the revised Sheet E2.0 issued with this addendum.

**END OF ADDENDUM #2**



GENERAL NOTE 1: THE CONTRACTOR SHALL PROVIDE HEPA FILTERS AT ALL EXISTING RETURN AIR AND EXHAUST DUCTWORK TO PREVENT DUST FROM ENTERING THE EXISTING HVAC SYSTEM, AND SHALL MAINTAIN NEGATIVE PRESSURE THROUGHOUT THE CONSTRUCTION ZONE RELATIVE TO THE SURROUNDING AREAS.

**DEMOLITION KEY NOTES**

- 1 EXISTING FRAMED WALL TO BE REMOVED.
- 2 EXISTING DOOR AND HM FRAME TO BE REMOVED.
- 3 EXISTING CERAMIC TILE WALL FINISH TO 7'-6" AFF ON FRAMED WALL TO BE REMOVED.
- 4 EXISTING CEILING TILE AND ASSOCIATED GRID TO BE REMOVED.
- 5 EXISTING RESILIENT FLOORING AND RESILIENT BASE TO BE REMOVED. PREP EXISTING CONCRETE SLAB FOR NEW FLOORING.
- 6 EXISTING CASEWORK AND ALL ASSOCIATED UTILITIES TO BE REMOVED.
- 7 EXISTING WALL TO BE REMOVED TO ALLOW INSTALLATION OF NEW DOOR AND HM FRAME.
- 8 EXISTING WALL TO REMAIN.
- 9 NEW TEMPORARY CONSTRUCTION PARTITION. SEE SPEC SECTION 01 5000.
- 10 EXISTING WALL TO BE REMOVED TO ALLOW INSTALLATION OF NEW WINDOW.
- 11 EXISTING PLUMBING FIXTURE TO BE REMOVED. SEE PLUMBING PLANS.
- 12 EXISTING FLOOR DRAIN TO BE REMOVED. SEE PLUMBING PLANS.
- 13 EXISTING CERAMIC TILE FLOORING TO BE REMOVED. LEVEL EXISTING CONCRETE SLAB AND PREP FOR NEW RESILIENT FLOORING.
- 14 EXISTING BOOM-MOUNTED OR LIGHT AND ALL ASSOCIATED STRUCTURE ABOVE TO BE REMOVED. TURN LIGHT OVER TO OWNER UPON REMOVAL.
- 15 EXISTING CERAMIC FLOOR TILE AND RESILIENT BASE TO BE REMOVED. PREP EXISTING CONCRETE SLAB FOR NEW RESILIENT FLOORING.
- 16 EXISTING VMC ON FRAMED WALL TO BE REMOVED.
- 17 EXISTING ALUMINUM DOORS AND INSULATED GLASS IN HM FRAME TO BE REMOVED.
- 18 EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN.
- 19 EXISTING EXTERIOR WINDOWS TO REMAIN.
- 20 EXISTING CONCRETE SLAB TO BE REMOVED TO ALLOW INSTALLATION OF NEW FLOOR DRAIN AND SANITARY LINE. SEE PLUMBING DRAWINGS.
- 21 NOT USED.
- 22 EXISTING FEC TO REMAIN.
- 23 EXISTING FEC TO BE REMOVED AND RELOCATED. SEE NEW FLOOR PLAN.

**F1 DEMOLITION FLOOR PLAN**  
 40-100 SCALE: 3/8" = 1'-0"

**DOYLE ARCHITECTURE, LLC**  
 315 MAIN STREET, SUITE 2B  
 CONWAY, SC 29526  
 843.455.6879

**STATE OF SOUTH CAROLINA**  
 Doyle Architecture, LLC  
 Conway, SC No. 101503  
 REGISTERED ARCHITECT

**STATE OF SOUTH CAROLINA**  
 PAUL G. DOYLE  
 Myrtle Beach, SC No. 7389  
 REGISTERED ARCHITECT

**RENOVATION OF GS BUILDING 1000**  
**SURGICAL TECHNOLOGY LAB**  
 for: **Horry-Georgetown Technical College**  
 Myrtle Beach Campus

PROJECT NO: 21-106

DATE: Dec 30, 2021  
 Construction Documents

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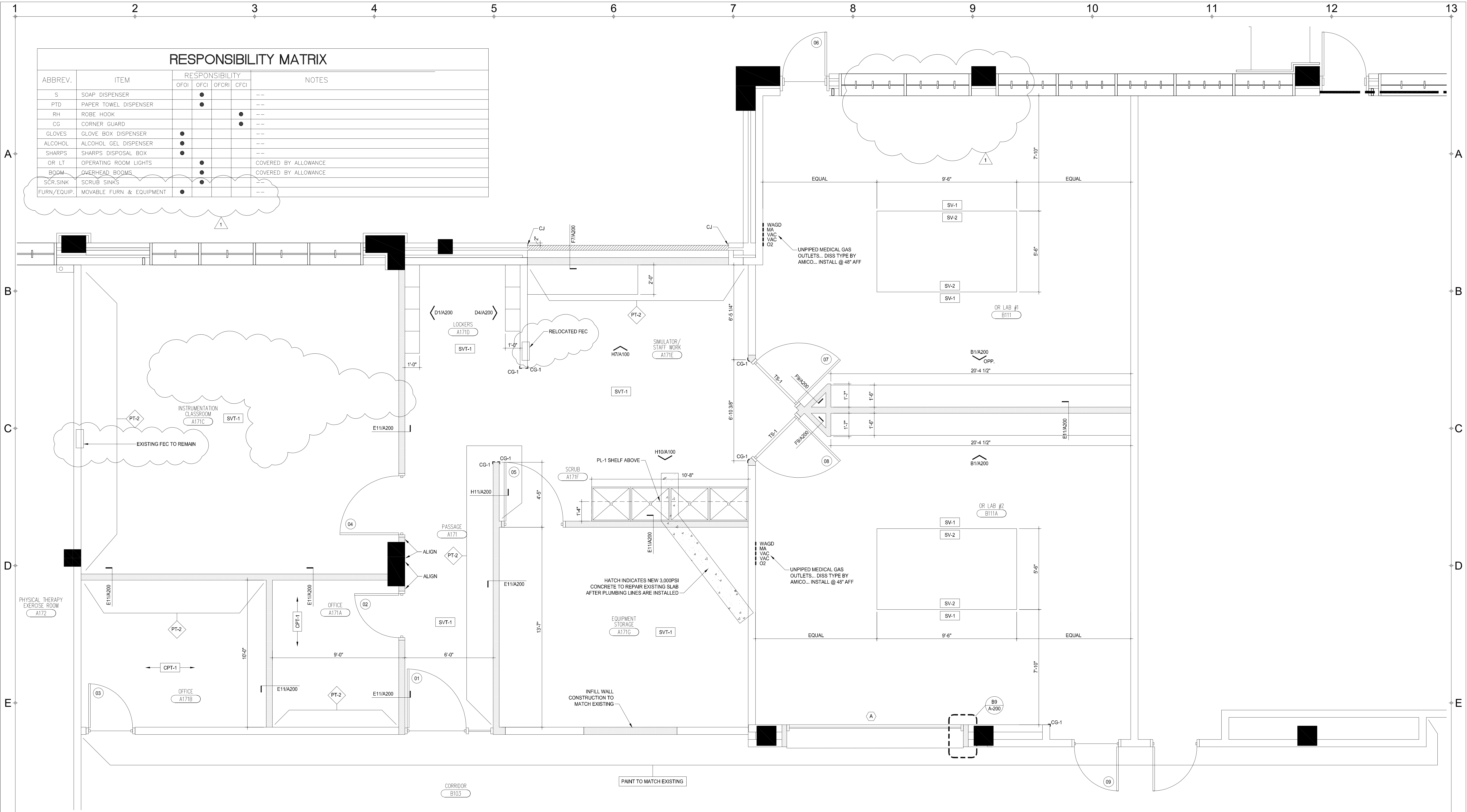
REVISIONS:  
 1 Addendum 2: 1 Feb 2022

TITLE:  
**DEMOLITION FLOOR PLAN**

SHEET:  
**AD-100**

**RESPONSIBILITY MATRIX**

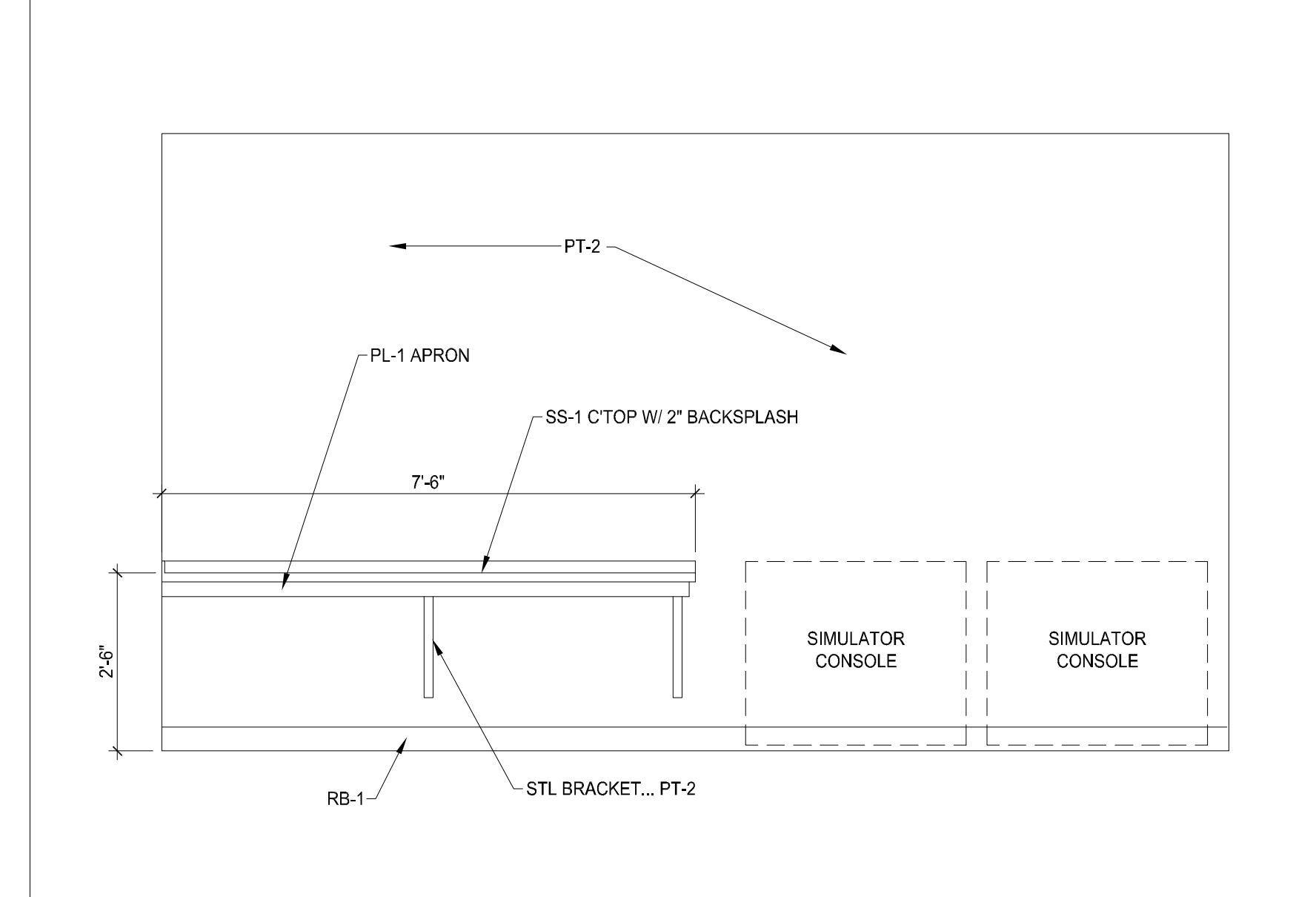
ABBREV.	ITEM	RESPONSIBILITY				NOTES
		OFOI	OFCI	OFCRI	CFGI	
S	SOAP DISPENSER					---
PTD	PAPER TOWEL DISPENSER		●			---
RH	ROBE HOOK				●	---
CG	CORNER GUARD				●	---
GLOVES	GLOVE BOX DISPENSER	●				---
ALCOHOL	ALCOHOL GEL DISPENSER	●				---
SHARPS	SHARPS DISPOSAL BOX	●				---
OR LT	OPERATING ROOM LIGHTS		●			COVERED BY ALLOWANCE
ROOM	OVERHEAD BOOMS		●			COVERED BY ALLOWANCE
SCR.SINK	SCRUB SINKS	●				---
FURN/EQUIP.	MOVABLE FURN & EQUIPMENT	●				---



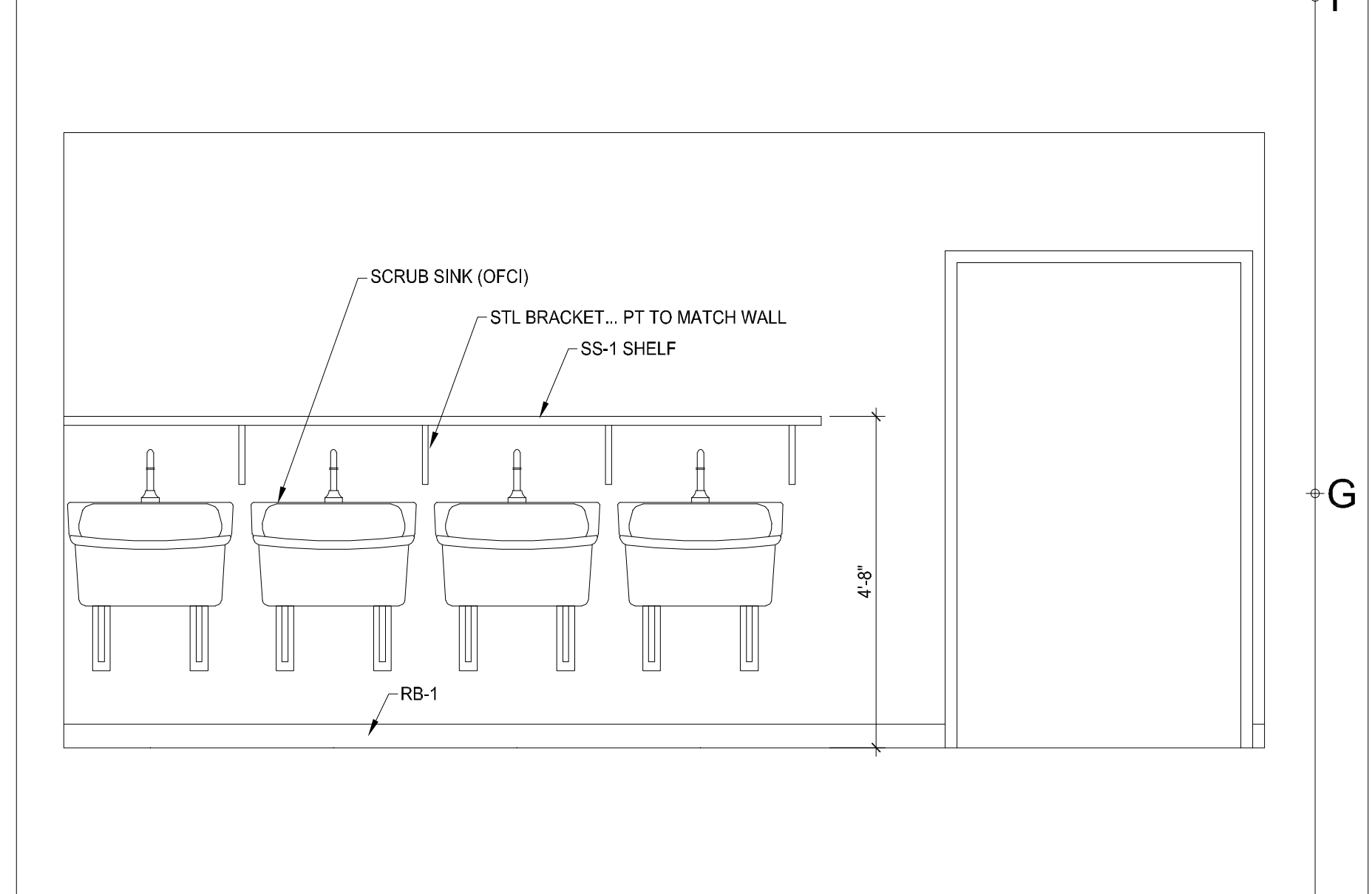
**F1 NEW FLOOR PLAN**  
 SCALE: 3/8" = 1'-0"

INTERIOR FINISH LEGEND								NOTES
	MFR.	SERIES	COLOR	MODEL	SIZE	FINISH		
WALLS	PT-1	SHERWIN WILLIAMS	PRO-MAR 200	MODERNE WHITE	SW6168	---	EGGSHELL	ALL WALLS TO BE PT-1 U.N.O.
	PT-2	SHERWIN WILLIAMS	PRO-MAR 200	TRADEWIND	SW6218	---	EGGSHELL	ACCENT WALLS
	PT-3	SHERWIN WILLIAMS	PRO-MAR 200	MODERNE WHITE	SW6168	---	SEMI-GLOSS	DOOR FRAMES
FLOORS	SV-1	MANNINGTON	BIOSPEC MD	BISQUE 15202	---	---	---	6" INTEGRAL COVE BASE
	SV-2	MANNINGTON	BIOSPEC MD	STERLING BLUE 15312	---	---	---	STERILE FIELD IN CENTER OF EACH OR
	SVT-1	AMERICAN BILTRITE	TEXAS GRANITE	---	24"x24"	---	---	MICROGROUND EDGES
	CPT-1	INTERFACE	EVENSONG	SUNRISE MOON #105331	---	1m x 0.25m	---	ASHLAR PATTERN; SEE FLOOR PLAN FOR LONGITUDINAL AXIS
BASE	RB-1	JOHNSONITE	TRADITIONAL	PEARL CB #22	---	4"	---	TO BE USED IN ALL AREAS THAT DO NOT HAVE INTEGRAL COVE BASE
CEILING	ACT-1	ARMSTRONG	ULTIMA HEALTH ZONE	WHITE	1935	24"x24"x15/16"	---	USE W/15/16" PRELUDE GRID
	CASEWK.	PL-1	WILSONART	---	NATURAL ALMOND #D30-60	---	---	---
SS-1		CORIAN	---	LINEN	---	---	---	COUNTERTOPS
MISC.	CG-1	CSI	SSM-20N	DESERT SAND #102	---	2"x2"	---	FULL-HEIGHT
	TS-1	JOHNSONITE	CTA-XX-X	PEARL CB #22	---	---	---	TRANSITION STRIP

**H1 INTERIOR FINISH SCHEDULE**  
 SCALE: NONE

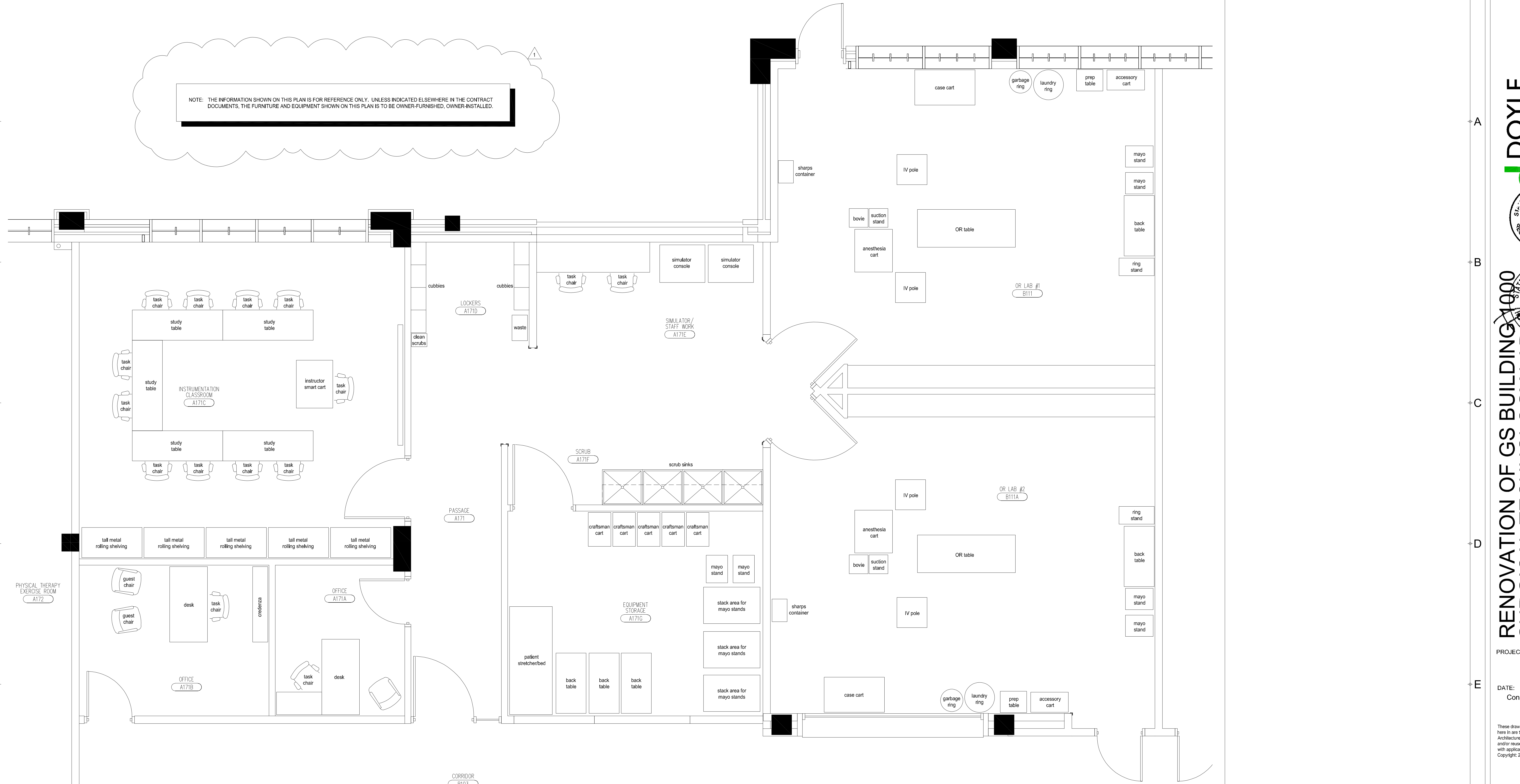


**H7 INTERIOR ELEVATION - SIMULATOR/STAFF WORK A171E**  
 SCALE: 1/2" = 1'-0"



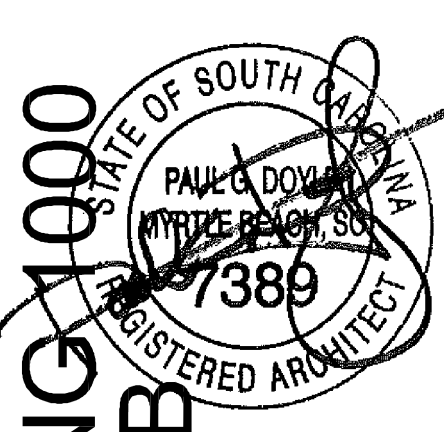
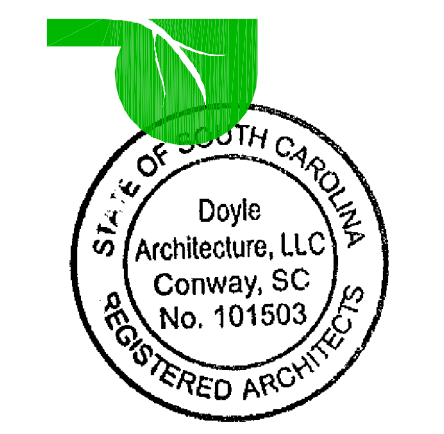
**H10 INTERIOR ELEVATION - SCRUB A171F**  
 SCALE: 1/2" = 1'-0"

NOTE: THE INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. UNLESS INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS, THE FURNITURE AND EQUIPMENT SHOWN ON THIS PLAN IS TO BE OWNER-FURNISHED, OWNER-INSTALLED.



**F1 FURNITURE + EQUIPMENT PLAN**  
 A-120 SCALE: 3/8" = 1'-0"

**DOYLE ARCHITECTURE, LLC**  
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**RENOVATION OF GS BUILDING 1000 SURGICAL TECHNOLOGY LAB**  
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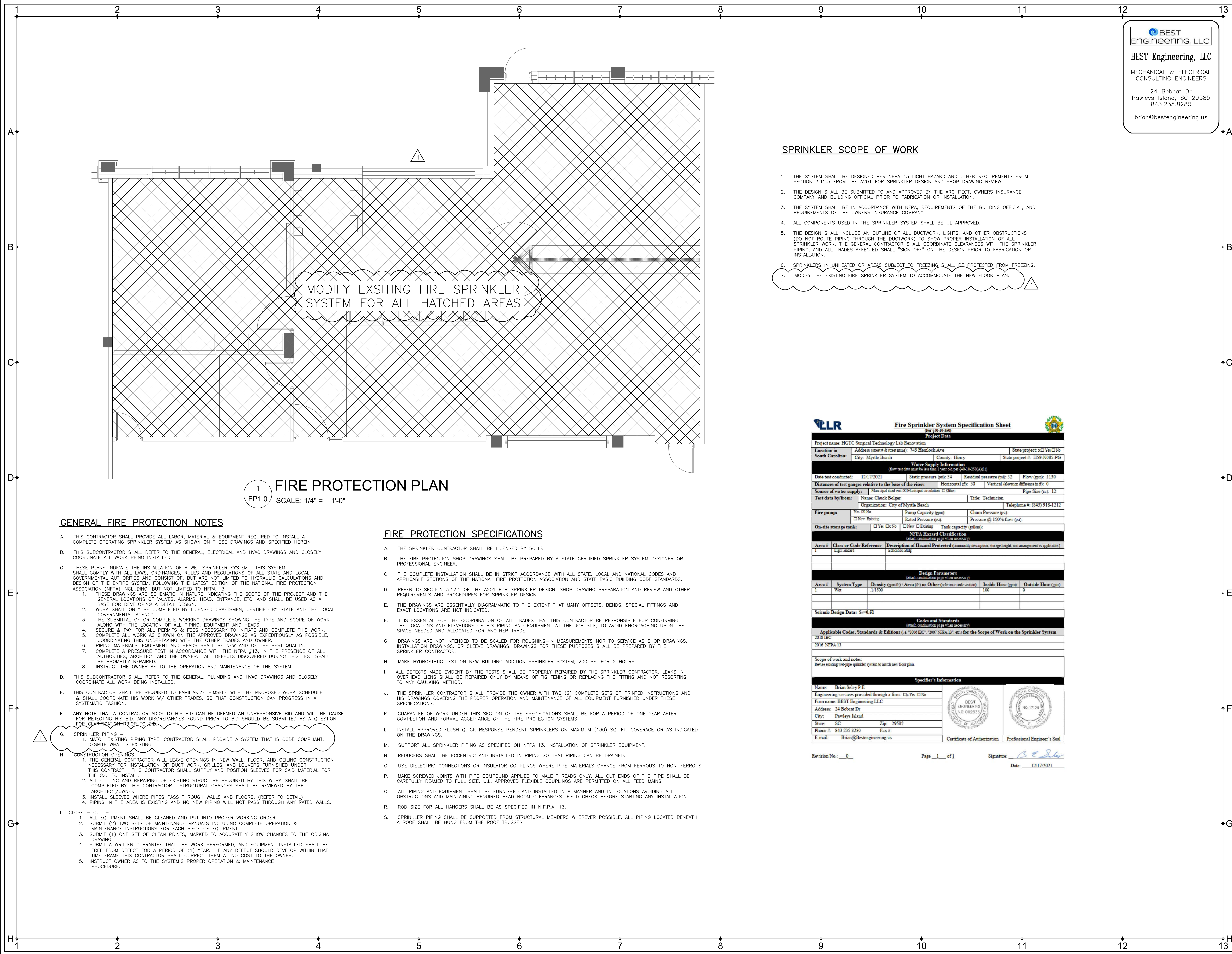
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TITLE:  
**FURNITURE & EQUIPMENT PLAN**

SHEET:  
**A-120**



**1 FIRE PROTECTION PLAN**  
 FP1.0 SCALE: 1/4" = 1'-0"

**GENERAL FIRE PROTECTION NOTES**

- A. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL & EQUIPMENT REQUIRED TO INSTALL A COMPLETE OPERATING SPRINKLER SYSTEM AS SHOWN ON THESE DRAWINGS AND SPECIFIED HEREIN.
- B. THIS SUBCONTRACTOR SHALL REFER TO THE GENERAL, ELECTRICAL AND HVAC DRAWINGS AND CLOSELY COORDINATE ALL WORK BEING INSTALLED.
- C. THESE PLANS INDICATE THE INSTALLATION OF A WET SPRINKLER SYSTEM. THIS SYSTEM SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL STATE AND LOCAL GOVERNMENTAL AUTHORITIES AND CONSIST OF, BUT ARE NOT LIMITED TO HYDRAULIC CALCULATIONS AND DESIGN OF THE ENTIRE SYSTEM, FOLLOWING THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) INCLUDING, BUT NOT LIMITED TO NFPA 13.
  - 1. THESE DRAWINGS ARE SCHEMATIC IN NATURE INDICATING THE SCOPE OF THE PROJECT AND THE GENERAL LOCATIONS OF VALVES, ALARMS, HEAD, ENTRANCE, ETC. AND SHALL BE USED AS A BASE FOR DEVELOPING A DETAIL DESIGN.
  - 2. WORK SHALL ONLY BE COMPLETED BY LICENSED CRAFTSMEN, CERTIFIED BY STATE AND THE LOCAL GOVERNMENTAL AGENCY.
  - 3. THE SUBMITTAL OF OR COMPLETE WORKING DRAWINGS SHOWING THE TYPE AND SCOPE OF WORK ALONG WITH THE LOCATION OF ALL PIPING, EQUIPMENT AND HEADS.
  - 4. SECURE & PAY FOR ALL PERMITS & FEES NECESSARY TO INITIATE AND COMPLETE THIS WORK.
  - 5. COMPLETE ALL WORK AS SHOWN ON THE APPROVED DRAWINGS AS EXPEDITIOUSLY AS POSSIBLE, COORDINATING THIS UNDERTAKING WITH THE OTHER TRADES AND OWNER.
  - 6. PIPING MATERIALS, EQUIPMENT AND HEADS SHALL BE NEW AND OF THE BEST QUALITY.
  - 7. COMPLETE A PRESSURE TEST IN ACCORDANCE WITH THE NFPA #13. IN THE PRESENCE OF ALL AUTHORITIES, ARCHITECT AND THE OWNER. ALL DEFECTS DISCOVERED DURING THIS TEST SHALL BE PROMPTLY REPAIRED.
  - 8. INSTRUCT THE OWNER AS TO THE OPERATION AND MAINTENANCE OF THE SYSTEM.
- D. THIS SUBCONTRACTOR SHALL REFER TO THE GENERAL, PLUMBING AND HVAC DRAWINGS AND CLOSELY COORDINATE ALL WORK BEING INSTALLED.
- E. THIS CONTRACTOR SHALL BE REQUIRED TO FAMILIARIZE HIMSELF WITH THE PROPOSED WORK SCHEDULE & SHALL COORDINATE HIS WORK W/ OTHER TRADES, SO THAT CONSTRUCTION CAN PROGRESS IN A SYSTEMATIC FASHION.
- F. ANY NOTE THAT A CONTRACTOR ADDS TO HIS BID CAN BE DEEMED AN UNRESPONSIVE BID AND WILL BE CAUSE FOR REJECTING HIS BID. ANY DISCREPANCIES FOUND PRIOR TO BID SHOULD BE SUBMITTED AS A QUESTION FOR CLARIFICATION PRIOR TO BID.
- G. SPRINKLER PIPING -
  - 1. MATCH EXISTING PIPING TYPE. CONTRACTOR SHALL PROVIDE A SYSTEM THAT IS CODE COMPLIANT, DESPITE WHAT IS EXISTING.
- H. CONSTRUCTION OPENINGS
  - 1. THE GENERAL CONTRACTOR WILL LEAVE OPENINGS IN NEW WALL, FLOOR, AND CEILING CONSTRUCTION NECESSARY FOR INSTALLATION OF DUCT WORK, GRILLES, AND LOUVERS FURNISHED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL SUPPLY AND POSITION SLEEVES FOR SAID MATERIAL FOR THE G.C. TO INSTALL.
  - 2. ALL CUTTING AND REPAIRING OF EXISTING STRUCTURE REQUIRED BY THIS WORK SHALL BE COMPLETED BY THIS CONTRACTOR. STRUCTURAL CHANGES SHALL BE REVIEWED BY THE ARCHITECT/OWNER.
  - 3. INSTALL SLEEVES WHERE PIPES PASS THROUGH WALLS AND FLOORS. (REFER TO DETAIL)
  - 4. PIPING IN THE AREA IS EXISTING AND NO NEW PIPING WILL NOT PASS THROUGH ANY RATED WALLS.
- I. CLOSE - OUT -
  - 1. ALL EQUIPMENT SHALL BE CLEANED AND PUT INTO PROPER WORKING ORDER.
  - 2. SUBMIT (2) TWO SETS OF MAINTENANCE MANUALS INCLUDING COMPLETE OPERATION & MAINTENANCE INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT.
  - 3. SUBMIT (1) ONE SET OF CLEAN PRINTS, MARKED TO ACCURATELY SHOW CHANGES TO THE ORIGINAL DRAWING.
  - 4. SUBMIT A WRITTEN GUARANTEE THAT THE WORK PERFORMED, AND EQUIPMENT INSTALLED SHALL BE FREE FROM DEFECT FOR A PERIOD OF (1) YEAR. IF ANY DEFECT SHOULD DEVELOP WITHIN THAT TIME FRAME THIS CONTRACTOR SHALL CORRECT THEM AT NO COST TO THE OWNER.
  - 5. INSTRUCT OWNER AS TO THE SYSTEM'S PROPER OPERATION & MAINTENANCE PROCEDURE.

**FIRE PROTECTION SPECIFICATIONS**

- A. THE SPRINKLER CONTRACTOR SHALL BE LICENSED BY SCLLR.
- B. THE FIRE PROTECTION SHOP DRAWINGS SHALL BE PREPARED BY A STATE CERTIFIED SPRINKLER SYSTEM DESIGNER OR PROFESSIONAL ENGINEER.
- C. THE COMPLETE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL STATE, LOCAL AND NATIONAL CODES AND APPLICABLE SECTIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND STATE BASIC BUILDING CODE STANDARDS.
- D. REFER TO SECTION 3.12.5 OF THE A201 FOR SPRINKLER DESIGN, SHOP DRAWING PREPARATION AND REVIEW AND OTHER REQUIREMENTS AND PROCEDURES FOR SPRINKLER DESIGN.
- E. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED.
- F. IT IS ESSENTIAL FOR THE COORDINATION OF ALL TRADES THAT THIS CONTRACTOR BE RESPONSIBLE FOR CONFIRMING THE LOCATIONS AND ELEVATIONS OF HIS PIPING AND EQUIPMENT AT THE JOB SITE, TO AVOID ENCRROACHING UPON THE SPACE NEEDED AND ALLOCATED FOR ANOTHER TRADE.
- G. DRAWINGS ARE NOT INTENDED TO BE SCALED FOR ROUGHING-IN MEASUREMENTS NOR TO SERVICE AS SHOP DRAWINGS, INSTALLATION DRAWINGS, OR SLEEVE DRAWINGS. DRAWINGS FOR THESE PURPOSES SHALL BE PREPARED BY THE SPRINKLER CONTRACTOR.
- H. MAKE HYDROSTATIC TEST ON NEW BUILDING ADDITION SPRINKLER SYSTEM, 200 PSI FOR 2 HOURS.
- I. ALL DEFECTS MADE EVIDENT BY THE TESTS SHALL BE PROPERLY REPAIRED BY THE SPRINKLER CONTRACTOR. LEAKS IN OVERHEAD LIENS SHALL BE REPAIRED ONLY BY MEANS OF TIGHTENING OR REPLACING THE FITTING AND NOT RESORTING TO ANY CAULKING METHOD.
- J. THE SPRINKLER CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO (2) COMPLETE SETS OF PRINTED INSTRUCTIONS AND HIS DRAWINGS COVERING THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS.
- K. GUARANTEE OF WORK UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND FORMAL ACCEPTANCE OF THE FIRE PROTECTION SYSTEMS.
- L. INSTALL APPROVED FLUSH QUICK RESPONSE PENDENT SPRINKLERS ON MAXIMUM (130) SQ. FT. COVERAGE OR AS INDICATED ON THE DRAWINGS.
- M. SUPPORT ALL SPRINKLER PIPING AS SPECIFIED ON NFPA 13, INSTALLATION OF SPRINKLER EQUIPMENT.
- N. REDUCERS SHALL BE ECCENTRIC AND INSTALLED IN PIPING SO THAT PIPING CAN BE DRAINED.
- O. USE DIELECTRIC CONNECTIONS OR INSULATOR COUPLINGS WHERE PIPE MATERIALS CHANGE FROM FERROUS TO NON-FERROUS.
- P. MAKE SCREWED JOINTS WITH PIPE COMPOUND APPLIED TO MALE THREADS ONLY. ALL CUT ENDS OF THE PIPE SHALL BE CAREFULLY REAMED TO FULL SIZE. U.L. APPROVED FLEXIBLE COUPLINGS ARE PERMITTED ON ALL FEED MAINS.
- Q. ALL PIPING AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN A MANNER AND IN LOCATIONS AVOIDING ALL OBSTRUCTIONS AND MAINTAINING REQUIRED HEAD ROOM CLEARANCES. FIELD CHECK BEFORE STARTING ANY INSTALLATION.
- R. ROD SIZE FOR ALL HANGERS SHALL BE AS SPECIFIED IN N.F.P.A. 13.
- S. SPRINKLER PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS WHEREVER POSSIBLE. ALL PIPING LOCATED BENEATH A ROOF SHALL BE HUNG FROM THE ROOF TRUSSES.

**SPRINKLER SCOPE OF WORK**

- 1. THE SYSTEM SHALL BE DESIGNED PER NFPA 13 LIGHT HAZARD AND OTHER REQUIREMENTS FROM SECTION 3.12.5 FROM THE A201 FOR SPRINKLER DESIGN AND SHOP DRAWING REVIEW.
- 2. THE DESIGN SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT, OWNERS INSURANCE COMPANY AND BUILDING OFFICIAL PRIOR TO FABRICATION OR INSTALLATION.
- 3. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA, REQUIREMENTS OF THE BUILDING OFFICIAL, AND REQUIREMENTS OF THE OWNERS INSURANCE COMPANY.
- 4. ALL COMPONENTS USED IN THE SPRINKLER SYSTEM SHALL BE UL APPROVED.
- 5. THE DESIGN SHALL INCLUDE AN OUTLINE OF ALL DUCTWORK, LIGHTS, AND OTHER OBSTRUCTIONS (DO NOT ROUTE PIPING THROUGH THE DUCTWORK) TO SHOW PROPER INSTALLATION OF ALL SPRINKLER WORK. THE GENERAL CONTRACTOR SHALL COORDINATE CLEARANCES WITH THE SPRINKLER PIPING, AND ALL TRADES AFFECTED SHALL "SIGN OFF" ON THE DESIGN PRIOR TO FABRICATION OR INSTALLATION.
- 6. SPRINKLERS IN UNHEATED OR AREAS SUBJECT TO FREEZING SHALL BE PROTECTED FROM FREEZING.
- 7. MODIFY THE EXISTING FIRE SPRINKLER SYSTEM TO ACCOMMODATE THE NEW FLOOR PLAN.

**FLR Fire Sprinkler System Specification Sheet**  
 (Per 40-10-350)

**Project Data**

Project name: HGTC Surgical Technology Lab Renovation  
 Location in South Carolina: Address (street # & street name): 743 Hemlock Ave, City: Myrtle Beach, County: Horry, State project:  No  Yes  
 Water Supply Information (Source of water supply:  Municipal direct  Municipal circulation  Other: \_\_\_\_\_) (Flow rate data must be less than 1 year old per 440-10-250(A)(1))

Date test conducted: 12/17/2021 Static pressure (psi): 54 Residual pressure (psi): 52 Flow (gpm): 1130  
 Distances of test gauges relative to the base of the riser: Horizontal (ft): 50 Vertical (elevation difference in ft): 0  
 Source of water supply: \_\_\_\_\_ Pipe Size (in): 12  
 Test data by/for: Name: Chuck Bolger Title: Technician  
 Organization: City of Myrtle Beach Telephone #: (843) 918-1212  
 Fire pump:  Yes  No Pump Capacity (gpm): \_\_\_\_\_ Churn Pressure (psi): \_\_\_\_\_  
 New  Existing Rated Pressure (psi): \_\_\_\_\_ Pressure @ 150% flow (psi): \_\_\_\_\_  
 On-site storage tank:  Yes  No  New  Existing Tank capacity (gallons): \_\_\_\_\_

**NFPA Hazard Classification**  
 (attach continuation page when necessary)

Area #	Class or Code Reference	Description of Hazard Protected (community description, storage height, and arrangement as applicable)
1	Light Hazard	Education Bldg

**Design Parameters**  
 (attach continuation page when necessary)

Area #	System Type	Density (gpm/ft <sup>2</sup> ) / Area (ft <sup>2</sup> ) or Other (reference code section)	Inside Hose (gpm)	Outside Hose (gpm)
1	Wet	1.1500	100	0

Seismic Design Data: S=0.61

**Codes and Standards**  
 (attach continuation page when necessary)

Applicable Codes, Standards & Editions (e.g. "2009 IBC", "2007 NFPA 13", etc.) for the Scope of Work on the Sprinkler System  
 2015 IBC  
 2016 NFPA 13

Scope of work and notes:  
 Revise existing wet-pipe upright system to match new floor plan.

**Specifier's Information**

Name: Brian Saley P.E.  
 Engineering services provided through a firm:  Yes  No  
 Firm name: BEST Engineering LLC  
 Address: 24 Bobcat Dr, City: Pawleys Island, State: SC, Zip: 29585  
 Phone #: 843 235 8280 Fax #: \_\_\_\_\_  
 E-mail: Brian@bestengineering.us

Certificate of Authorization: [Seal] Professional Engineer's Seal: [Seal]

Revision No.: 0 Page 1 of 1 Signature: [Signature] Date: 12/17/2021

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**RENOVATION OF GS BUILDING 1000 SURGICAL TECHNOLOGY LAB**

for: **Horry-Georgetown Technical College**  
 Myrtle Beach Campus

PROJECT NO: 21-106  
 DATE: Dec 30, 2021  
 Construction Documents

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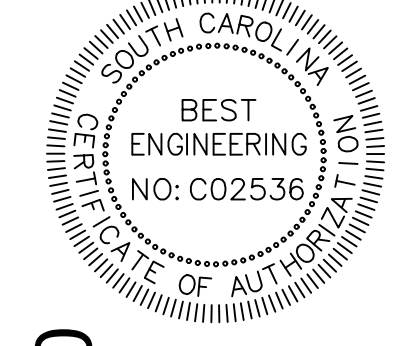
REVISIONS:  
 1. MODIFIED PER ADDENDUM 2

TITLE: **FIRE PROTECTION PLAN**

SHEET: **FP1.0**

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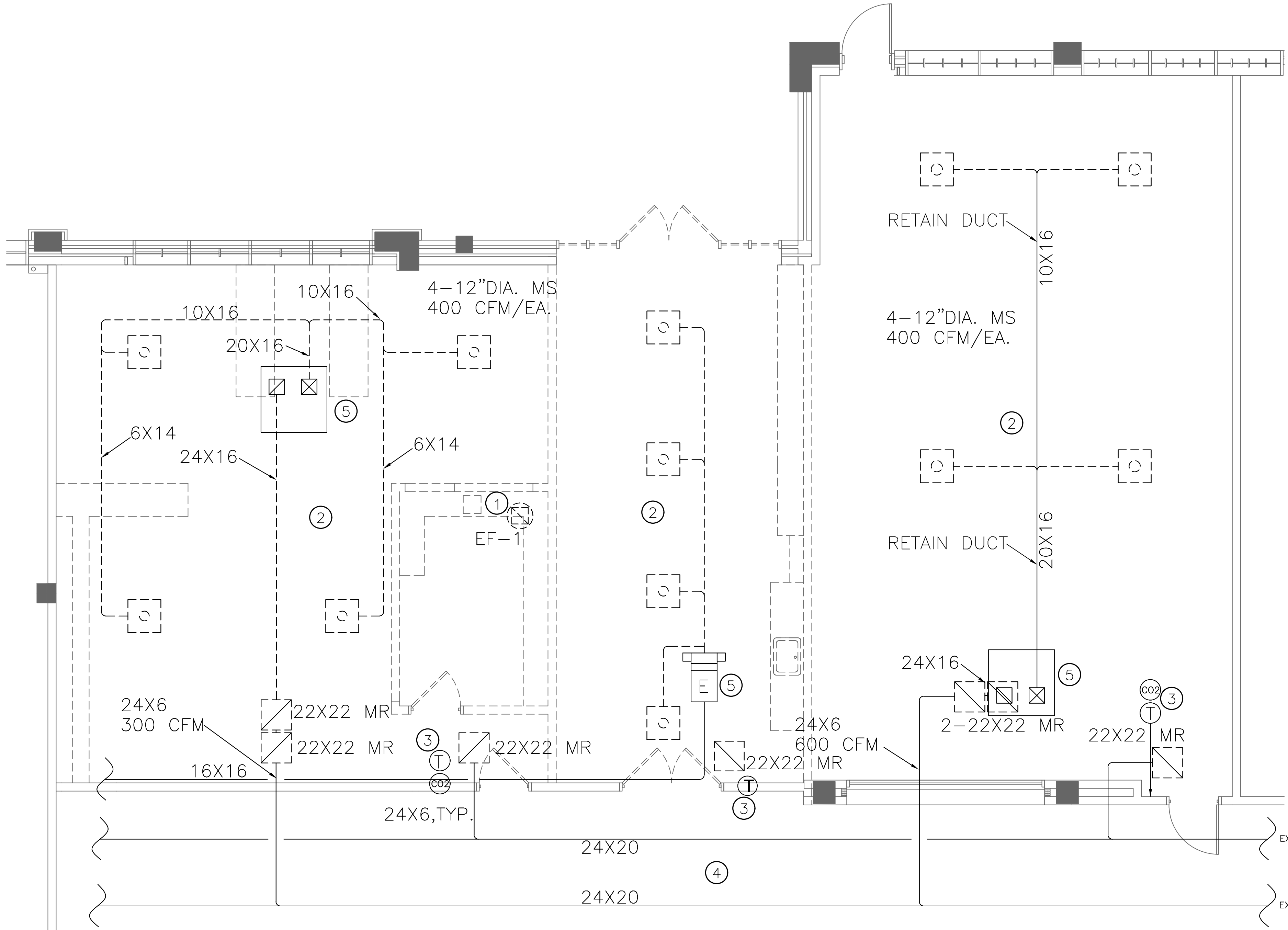
Δ	MODIFIED PER ADDENDUM 2

TITLE:  
**MECHANICAL DEMO PLAN & NOTES**

SHEET:  
**M1.0**

**MECHANICAL GENERAL DEMOLITION NOTES**

1. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING DUCTWORK, PIPING AND EQUIPMENT REQUIRING DEMOLITION. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND WITH THE OWNER.
2. NOT USED
3. THE MECHANICAL DEMOLITION WORK SHALL BE PERFORMED EXCLUSIVELY BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
4. THE MECHANICAL DEMOLITION WORK SHALL CONSIST OF THE FOLLOWING: DISCONNECT, REMOVAL AND DISPOSAL OF THE FOLLOWING DUCTWORK, SUPPORTS AND ACCESSORIES:
  - 1) SUPPLY AIR DUCTWORK AND DIFFUSER.
  - 2) RETURN AIR DUCTWORK & GRILLES.
  - 3) EXHAUST FANS, DUCTWORK, ETC...
  - 4) NOT USED
  - 5) TEMPERATURE CONTROLS - RETAIN FOR REINSTALLATION.
5. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL PATCHING AND SEALING OF WALLS, FLOORS, ETC... TO BE DONE BY GENERAL CONTRACTOR.



**PLAN KEY NOTES:**

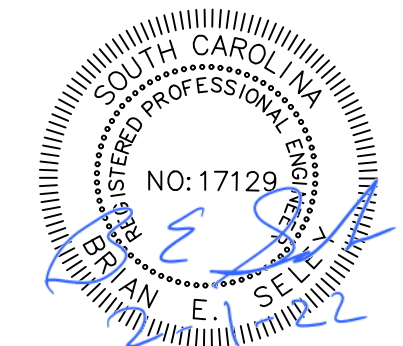
- ① REMOVE EXHAUST FAN AND CAP DUCT WORK
- ② RELOCATE EXISTING DIFFUSERS AND DUCTWORK PER PLAN ON SHEET M2.0
- ③ RETAIN CO2 AND THERMOSTAT SENSORS FOR REINSTALLATION
- ④ RETAIN VENTILATION AIR AND RETURN DUCTS
- ⑤ RETAIN EXISTING AIR SYSTEMS FOR RE USE IN SAME LOCATIONS

**1 HVAC DEMO PLAN**  
 M1.0 SCALE: 1/4" = 1'-0"



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REVISIONS:  
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TITLE:  
**MECHANICAL FLOOR PLAN, LEGEND & NOTES**

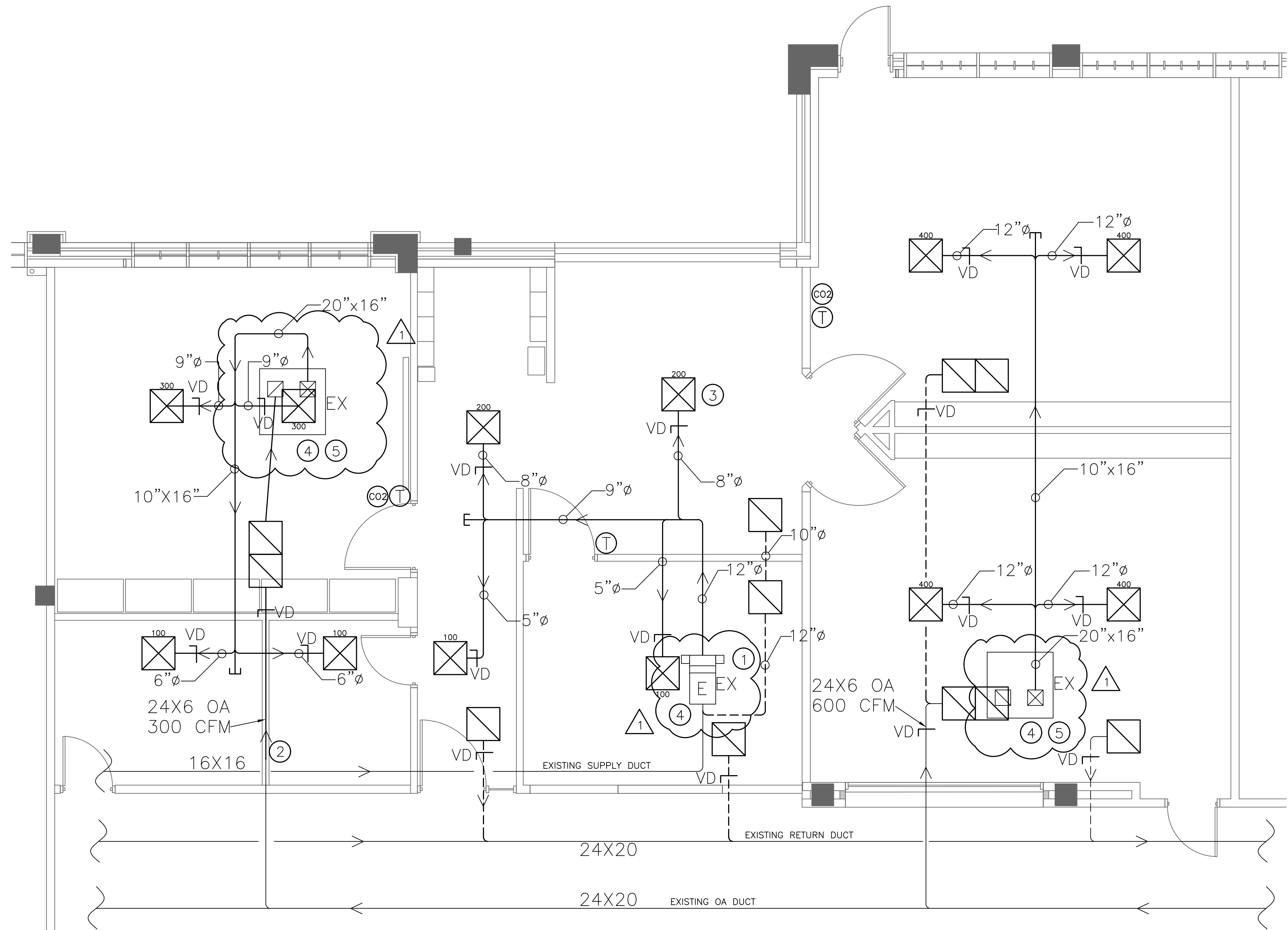
SHEET:  
**M2.0**

**GENERAL HVAC NOTES**

- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE WITH RESPECT TO ALL EXISTING CONDITIONS AND TO HAVE FULLY EXAMINED THE DRAWINGS FOR THIS BUILDING WITH RESPECT TO HIS SCOPE OF WORK.
- VISIT SITE AND BECOME FAMILIAR WITH ALL CONDITIONS. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER APPRAISAL OF EXISTING CONDITIONS. THIS CONTRACTOR SHALL EXAMINE ALL OTHER SPECIFICATIONS, DRAWINGS, AND ALL FEATURES OF BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND SHALL BE GOVERNED BY THESE OTHER SPECIFICATIONS, INSTRUCTIONS TO ALL BIDDERS AND SUPPLIERS.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. ADDITIONAL OFFSETS, BENDS, TRANSITIONS, ETC. MAY BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE SYSTEM. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF MATERIALS. NO ABRUPT TRANSITIONS ARE PERMITTED.
- THE MECHANICAL DESIGN INDICATED ON PLANS IS INTENDED TO BE A COMPLETE AND WORKABLE SYSTEM IN ACCORDANCE W/ALL APPLICABLE CODES. ALL MISCELLANEOUS PARTS REQUIRED, WHETHER INDICATED ON PLANS OR NOT, SHALL BE INCLUDED AS PART OF THIS DRAWING.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL HVAC WORK IN FIELD WITH REFERENCE TO STRUCTURAL ELEMENTS. DUCT LOCATIONS MAY VARY SLIGHTLY. ALL DIFFUSERS SHALL BE COORDINATED WITH LIGHTING AND OTHER CEILING MOUNTED ITEMS.
- MATERIALS & WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN THEIR LATEST REVISION.
- CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL MECHANICAL EQUIPMENT VOLTAGES AND OTHER ELECTRICAL REQUIREMENTS PRIOR TO RELEASING THE EQUIPMENT FROM THE MANUFACTURER.
- MECHANICAL CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR EXACT DIMENSIONS OF OPENINGS REQUIRED FOR DUCTS, SLEEVES, ETC..
- ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- CONTRACTOR TO PROVIDE ONE SET OF FILTERS IN ADDITION TO THOSE IN UNIT.
- CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF HIS WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO THE PURCHASE, FABRICATION, OR INSTALLATION OF NEW MATERIALS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BALANCE ALL SUPPLY AND RETURN AIR DUCTWORK AS TO ALLEVIATE AIR DELIVERY NOISE WHEREVER POSSIBLE AND TO COORDINATE ALL MATERIAL AND INSTALLATION METHODS WITH UNIT MANUFACTURER'S SPECS.
- RETURN TRIP BY THE MC FOR ANY NEEDED AIR RE-BALANCING TO BE COMPLETED WITHIN THE FIRST SIX MONTHS AFTER INITIAL INSTALLATION OF EQUIPMENT, OR UPON REQUEST BY OWNER OR ARCHITECT.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO FABRICATION.
- ALL DUCTWORK CONSTRUCTION SHALL BE SHEET METAL AND CONFORM TO THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- LOCATE ALL THERMOSTATS AND SWITCHES 4'-0" ABOVE FINISHED FLOOR.
- ALL FLEXIBLE DUCTWORK SHALL BE A MAXIMUM OF 8'-0" IN LENGTH AND SHALL BE STRETCHED TAUT.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- IN GENERAL, DUCT UPSETS AND DOWNSETS HAVE NOT BEEN SHOWN. CONTRACTOR TO COORDINATE THESE AS REQUIRED.
- AIR INTAKE OPENINGS SHALL BE MINIMUM OF 10'-0" AWAY FROM ALL EXHAUST AND VENT OPENINGS.
- PROVIDE FIRE DAMPERS IN ALL DUCTS WHERE CROSSING FIRE RATED ASSEMBLIES, WHETHER SHOWN OR NOT ON HVAC DRAWINGS. ALL SUPPLY REGISTERS ARE TO HAVE THIN LINE 1-HR FIRE DAMPERS INSTALLED IN BOOT. PROVIDE FIRE DAMPERS WHEREVER DUCTWORK PENETRATES A FIRE RATED PARTITION OR CEILING. PROVISIONS SHALL BE MADE FOR SUFFICIENT ACCESS TO EACH FIRE DAMPER. ALL FIRE DAMPERS MUST BE RATED FOR APPLICABLE USE AND CARRY EVIDENCE OF UL APPROVAL.
- SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED OR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE ATTICS, CRAWL SPACES AND UNHEATED BASEMENTS.
- WHEN DUCTS ARE LOCATED IN EXTERIOR COMPONENTS, (E.G., FLOORS OR ROOFS), MINIMUM R-5 INSULATION IS REQUIRED ONLY BETWEEN THE DUCT AND THE BUILDING EXTERIOR.
- ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS OR GASKETS OR MASTICS, MESH AND MASTIC SEALING SYSTEMS OR TAPES, TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL-181A OR UL-181B.
- DUCTS MUST BE CONNECTED TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT INCLUDING MULTI-ZONE TERMINAL UNITS USING MECHANICAL FASTENERS WITH SEALS, MASTICS OR GASKETS.
- ALL DIFFUSER NECKS SHALL BE INSULATED EXTERNALLY WITH 2" DUCT WRAP.
- ALL REFRIGERATION PIPING FROM THE AIR COOLED CONDENSERS TO THE REFRIGERANT COIL SHALL BE COPPER. ALL FITTINGS AND JOINTS SHALL BE MADE WITH SILVER SOLDER. THERMOSTATIC EXPANSION VALVES AND ALL ACCESSORIES SHALL BE SUPPLIED AND INSTALLED BY EQUIPMENT MANUFACTURER.
- PROVIDE TRAPS FOR ALL CONDENSATE DRAIN LINES.
- CLEANING SYSTEMS: KEEP DUCTS FREE FROM FOREIGN MATTER AFTER INSTALLING THE SYSTEM.
- OPERATION AND MAINTENANCE DOCUMENTATION SHALL BE PROVIDED TO THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION:
  - EQUIPMENT INPUT AND OUTPUT CAPACITY AND REQUIRED MAINTENANCE ACTIONS.
  - EQUIPMENT OPERATIONS AND MAINTENANCE MANUALS.
- MATERIALS OTHER THAN THOSE SPECIFIED OR PRE-APPROVED AS LISTED ON THE DRAWINGS AND SPECIFICATIONS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW NOT LESS THAN TEN WORKING DAYS PRIOR TO THE PROJECT BID DATE. SUBMITTALS MUST INCLUDE COMPLETE CATALOG NUMBERS AND SPECIFICATION SHEETS AND BE IN EITHER PDF FORMAT (PREFERRED) OR HARD COPY. FACSIMILES ARE NOT ACCEPTABLE.
- DO NOT OPERATE AIR SYSTEMS UNTIL CONSTRUCTION IS COMPLETE AND COMPLETELY CLEANED. USE TEMPORARY HEATING AND CLEANING UNITS AS REQUIRED.

**PLAN KEY NOTES:**

- EXISTING VAV BOX TO REMAIN FED FROM MAIN BUILDING SYSTEM
- EXTEND EXISTING 24"x6" RETURN DUCT TO NEW RETURN GRILLES
- MATCH NEW DIFFUSERS AND RETURNS WITH EXISTING
- CONTRACTOR SHALL USE OWNERS TEMPERATURE CONTROL CONTRACTOR: CMI
- EXISTING RTU UNITS TO REMAIN



**HVAC LEGEND**

- ⊙ THERMOSTAT - HEATING AND COOLING REINSTALL CO2 SENSORS ADJACENT TO
- 150 □ SUPPLY AIR DIFFUSER NUMBER INDICATES CFM
- RETURN AIR GRILLE - CEILING
- RETURN DUCT
- SUPPLY DUCT
- OA--- OUTSIDE AIR DUCT
- ⌌ DAMPER
- DUCT AIR FLOW DIRECTION
- EX EXISTING ROOFTOP OR VAV UNIT TO REMAIN/REUSED

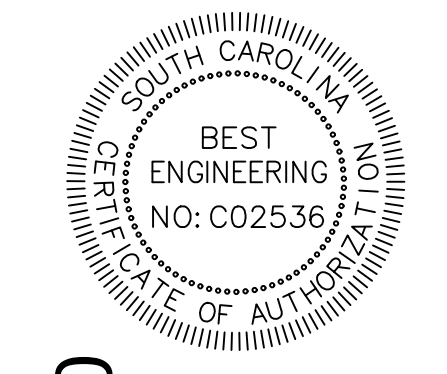
**1 HVAC PLAN**  
 M2.0 SCALE: 1/4" = 1'-0"

**SCOPE OF WORK NOTES**

- PROVIDE DAMPERS AT EACH DIFFUSER. START WITH CFM'S SHOWN. ADJUST AS NEEDED TO EQUALIZE TEMPERATURES WHEN SPACES ARE OCCUPIED.

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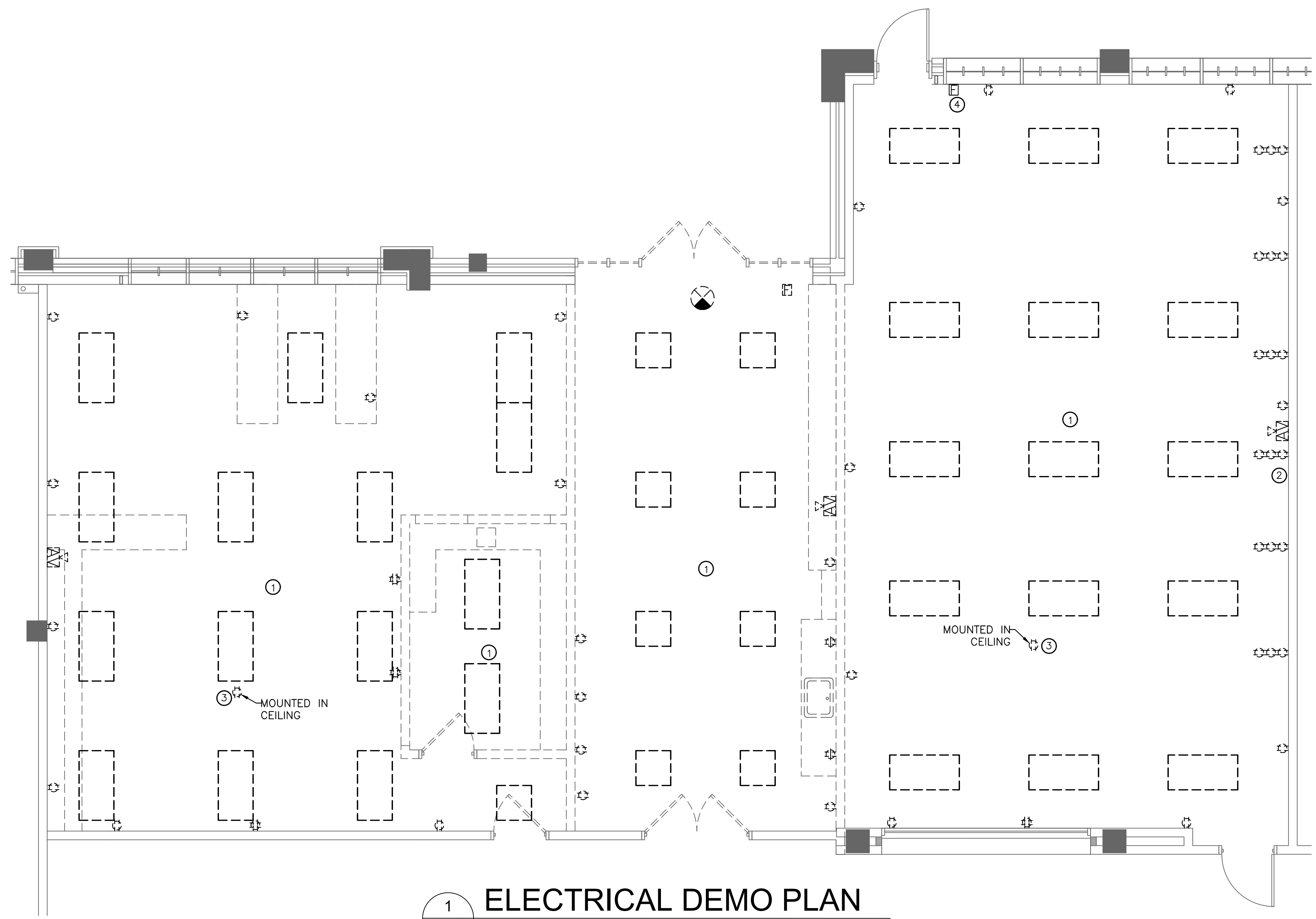
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TITLE:  
**ELECTRICAL DEMO PLAN & NOTES**

SHEET:  
**E1.0**

**GENERAL ELECTRICAL DEMOLITION NOTES**

- GENERAL: DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. VISIT THE EXISTING BUILDING PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.
- DASHED ITEMS: ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS ARE EXISTING AND SHALL BE REMOVED COMPLETE INCLUDING BOXES, CONDUIT, WIRE, FASTENERS, AND ASSOCIATED APPURTENANCES UON.
- SOLID ITEMS: ALL ITEMS SHOWN SOLID ON DEMOLITION PLANS ARE EXISTING TO REMAIN.
- CIRCUITING TO REMAIN: EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED, AS REQUIRED, WHERE AFFECTED BY NEW WORK IN ORDER TO MAINTAIN CONTINUITY OF CIRCUIT.
- REUSE OF EXISTING CIRCUITRY: EXISTING CIRCUITRY SERVING LIGHTING FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR AS OTHERWISE REQUIRED TO MAINTAIN THE CONTINUITY OF THE EXISTING CIRCUITS THAT REMAIN.
- EXISTING CONDUIT OR WIRING: ALL EXISTING CONDUITS AND WIRING THAT WILL NOT BE REUSED SHALL BE REMOVED WHERE THEY WILL BE EXPOSED UPON COMPLETION OF NEW EXISTING CONDUIT TO REMAIN CONCEALED IN WALLS SHALL BE ABANDONED. EXISTING CONDUIT TO REMAIN BELOW FLOOR SLAB SHALL BE CUT OFF ONE INCH BELOW ROUGH FLOOR AND GROUTED FLUSH. ALL EXISTING WIRING IN CONDUITS TO BE ABANDONED SHALL BE DISCONNECTED FROM POWER SOURCE AND REMOVED.
- REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS. REPAIR, AT NO ADDITIONAL COST TO OWNER, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN.
- ASSOCIATED APPURTENANCES: REMOVE ALL ELECTRICAL APPURTENANCES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT TO BE REMOVED BY OTHERS.
- KNOCKOUT PLUGS AND COVERS: ALL CONDUIT REMOVED SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING FITTINGS, MOUNTING DEVICES, MOUNTING HARDWARE, ETC. PROVIDE CONDUIT PLUGS AND BLANKS FOR ALL OPENINGS CREATED BY THE REMOVAL OF CONDUIT. PROVIDE BLANK COVER PLATES FOR ALL OPENED OUTLET BOXES CREATED BY THE REMOVAL OF THE EQUIPMENT AND/OR DEVICES.
- DEMOLISHED MATERIALS: ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE.
- SCHEDULE OUTAGES: ALL WORK AND ALL POWER OUTAGES IN THE EXISTING BUILDING SHALL BE SCHEDULED AT TIMES CONVENIENT TO THE OWNER.
- NOTIFICATION: NOTIFY THE OWNER PRIOR TO TURNING OFF ANY CIRCUITS.
- EXISTING CIRCUITS: IF DURING THE COURSE OF CONSTRUCTION, IT IS DETERMINED BY THE CONTRACTOR THAT AN EXISTING CIRCUIT BECOMES SPARE, THE CONTRACTOR SHALL UPDATE THE PANELBOARD DIRECTORY TO INDICATE SUCH, EVEN IF IT IS NOT EXPLICITLY MARKED ON THE ELECTRICAL PLANS.
- EXISTING PANELBOARDS: EXISTING PANELBOARDS ARE TO REMAIN ENERGIZED.
- REMOVE ALL EXPOSED ROMEX TYPE WIRING AND REPLACE WITH WIRE IN WIREMOLD IN VISIBLE AREAS, OR CONDUIT IN HIDDEN AREAS.



**ELECTRICAL DEMO KEY NOTES:**

- REMOVE AND/OR REROUTE ELECTRICAL AS REQUIRED FOR REMOVALS, INCLUDING WALL SWITCHES.
- REMOVE ANY UNUSED CIRCUITS AND MARK "SPARE" IN EXISTING PANELS. PANELS ARE APPROXIMATELY 50' TO PLAN RIGHT.
- RECEPTACLE MOUNTED IN CEILING TO BE REMOVED
- RELOCATE FIRE ALARM PULL STATION AND RETEST SYSTEM

**1 ELECTRICAL DEMO PLAN**  
 E1.0 SCALE: 1/4" = 1'-0"

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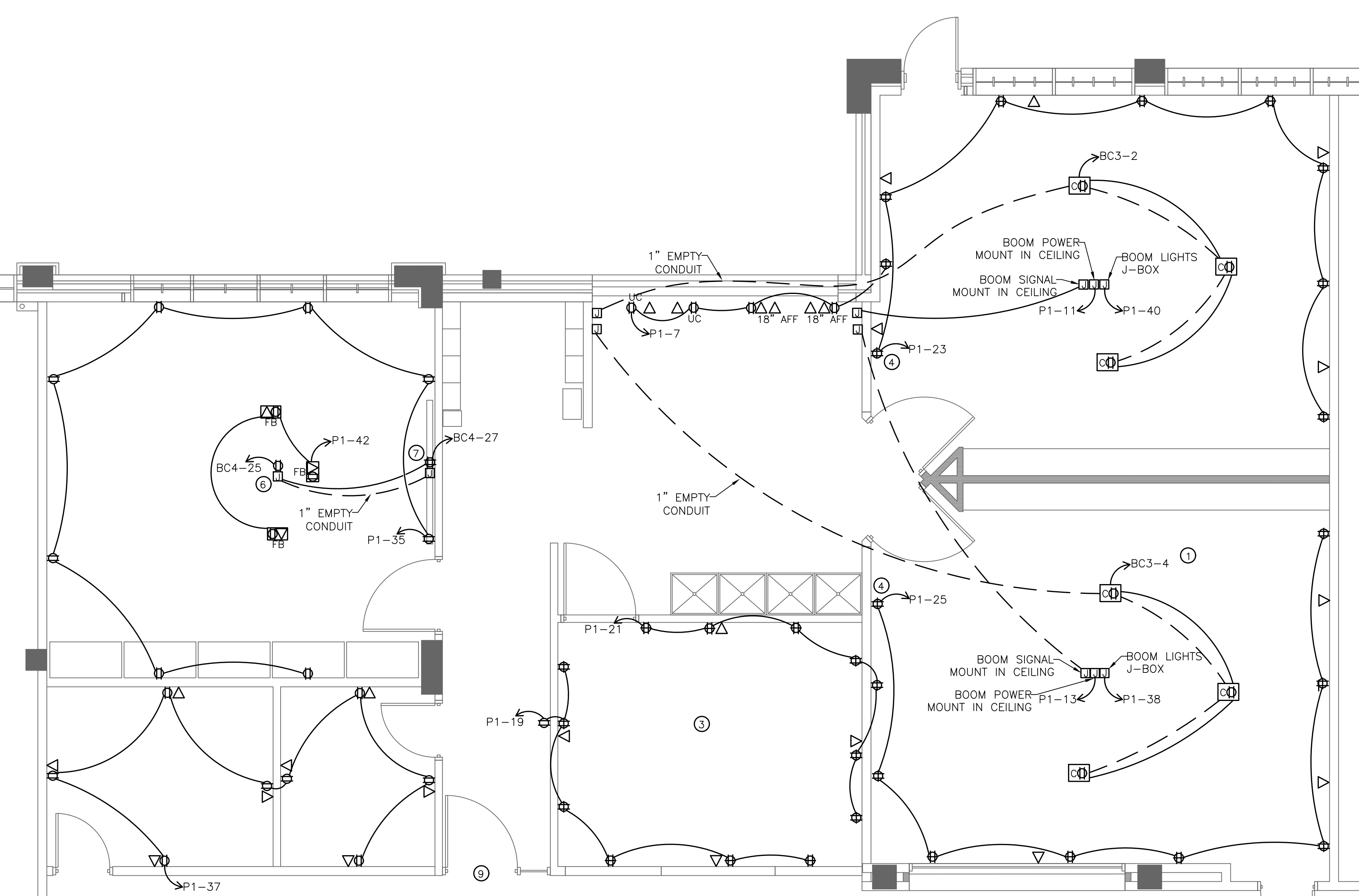
TAG	FIXTURE TYPE	DIFFUSER	COLOR	MTG	LAMP			VOLTS	MANUFACTURER/MODEL	LOCATION/REMARKS
					NO.	TYPE	WATTS			
A	2'x4' LED LIGHT FIXTURE	ACRYLIC	WHITE	SURFACE	1	LED	150	120	NEW STAR LIGHTING SSG24-HC	
B	2'x4' LED LIGHT FIXTURE	ACRYLIC	WHITE	SURFACE	1	LED	38.8	120	COLUMBIA LIGHTING LCAT24-35MLG-EU	
C	2'x2' LED LIGHT FIXTURE	ACRYLIC	WHITE	SURFACE	1	LED	28.7	120	COLUMBIA LIGHTING LCAT22-35MLG-EU	
D	2'x4' LED LIGHT FIXTURE	ACRYLIC	WHITE	SURFACE	1	LED	27.6	120	COLUMBIA LIGHTING LCAT24-39VWG-EU	
F	6" APERTURE LED DOWNLIGHT	NONE	WHITE	SURFACE	1	LED	11.5	120	SPECTRUM LIGHTING SP6ES-10L-35K-DX	
G	6" APERTURE LED WALL WASH	NONE	WHITE	SURFACE	1	LED	20.0	120	SPECTRUM LIGHTING SP6ES-20L-35K-DX	
OR	MEDICAL LIGHT ON BOOM	NONE	WHITE	SURFACE	1	LED	38.8	120	COLUMBIA LIGHTING LCAT24-35MLG-EU	

**GENERAL ELECTRICAL NOTES**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL MATERIAL AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER. INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), AND ANY OTHER LOCAL CODE HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS. ANY DEVIATION FROM THE DRAWINGS SHALL BE APPROVED BY THE OWNER OR ENGINEER.
- ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL HIS TOOLS, DEBRIS, AND GENERAL CLEANUP FROM HIS WORK.
- THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION HIS WORK.
- UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS REQUIRED FOR THE DEVICES SHOWN.
  - A. SWITCHES.....48" AFF
  - B. RECEPTACLES.....18" AFF
  - C. POWER PANELS (TO TOP).....72" AFF
  - D. DISCONNECT SWITCHES (TO TOP).....60" AFF
 THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX, REQUIRING ONLY ONE BLOCK CUT FOR FLUSH MOUNTED DEVICES. MAINTAIN HEIGHT CONSISTENCY BETWEEN SURFACE AND FLUSH MOUNTED DEVICES.
- EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW POWER OUTLETS, DATA OUTLETS, AND TELEPHONE OUTLETS SHALL BE CONFIRMED WITH OWNER, FURNITURE SUPPLIER, AND ARCHITECT BEFORE PROCEEDING.
- ALL RACEWAYS SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS.
- IN GENERAL, CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF TWO 90 DEGREE BENDS AND IN NO CASE EXCEED THREE EQUIVALENT 90 DEGREE BENDS. IN LONG STRAIGHT CONDUIT RUNS LOCATE PULL BOXES AT 100 FOOT INTERVALS. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND REGULATORY REQUIREMENTS. USE CAST BOXES IN MANHOLE AND IN OUTSIDE LOCATIONS.
- ALL CONDUCTORS TO BE SOFT DRAWN COPPER WITH 600 VOLT INSULATION MINIMUM SIZE TO BE #12 AWG. WIRE SIZED #10 AWG AND SMALLER SHALL BE SOLID COPPER WITH TYPE "THIN" OR "THIN" INSULATION. CABLE SIZED #8 AND LARGER SHALL BE STRANDED COPPER WITH TYPE "THIN" OR "XHHW" INSULATION EXCEPT WHERE NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN CONDUIT. COMPLETELY SHAB RACEWAYS BEFORE INSTALLING CONDUCTORS.
- PROVIDE CONNECTIONS TO ALL EQUIPMENT, MOTORS, ETC. FURNISHED BY OTHERS TO MAKE A COMPLETE, WORKING INSTALLATION.
- INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS. PULL BOXES, OUTLET, AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.
- USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY PULL BOXES POWER AND LIGHTING CIRCUITS.
- USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.
- PROVIDE A TYPEWRITTEN PANEL SCHEDULE FOR EACH PANEL USED IN THIS PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY TESTS TO INSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS AND FROM SHORTED AND/OR OPEN CIRCUITS. VOLTAGE AND CURRENT TESTS SHALL BE MADE BEFORE ANY CIRCUITS ARE PLACED IN OPERATION.
- ANY NOTE AND/OR EXPECTATIONS THAT A CONTRACTOR ADDS TO HIS BID CAN BE DEEMED AN UNRESPONSIVE BID AND WILL BE CAUSE FOR REJECTING HIS BID. SEE THE REQUIREMENTS IN A701.
- ALL WIRING MUST BE CONCEALED. DO NOT SURFACE MOUNT ANY CONDUIT.
- ELECTRICAL DEVICES, TIME-CLOCKS, PANELS, CABINETS, ECT. SHALL BE MOUNTED ON PLYWOOD BACKER BOARD.
- THE ELECTRICAL CONTRACTOR TO PROVIDE POWER TO EACH CAMERA LOCATION, AND DATA CONDUIT WITH BACKBOXES FOR SIGNAL WIRE BY OTHERS.

**ELECTRICAL LEGEND**

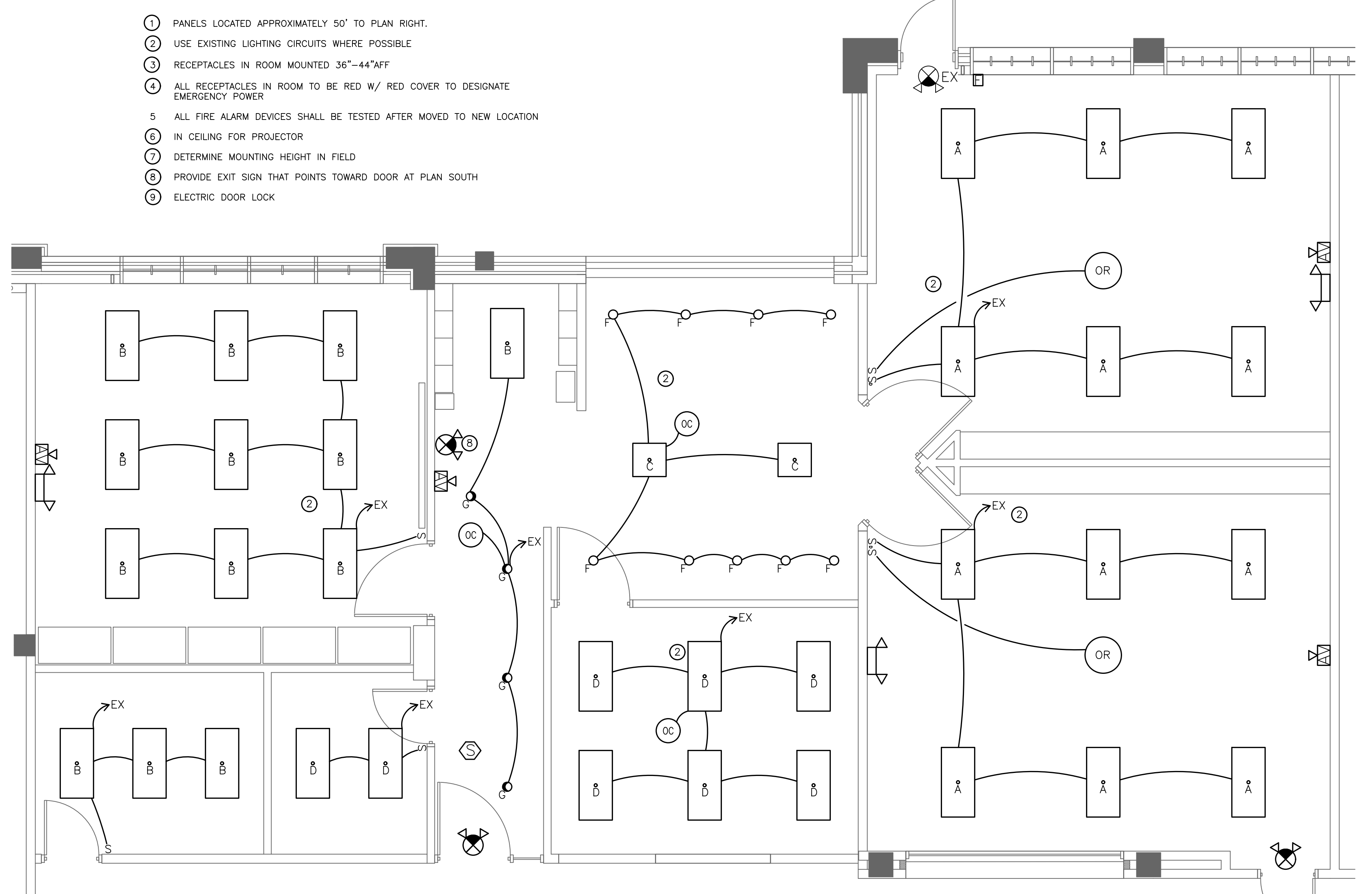
- DUPLEX RECEPTACLE - COMMERCIAL GRADE LEVITON MODEL #RS2-TCBR1-00W
- COUNTER HEIGHT DUPLEX RECEPTACLE 44" AFF - SEE ABOVE FOR TYPE AND MODEL # GC1 OR WP AS NOTED
- QUAD ELECTRICAL RECEPTACLE - UNDER COUNTER
- HOME RUN TO PANEL 2 #12 W/ GND. U.N.O. OR AS REQUIRED BY LOAD
- BRANCH CIRCUIT WIRING 2 #12 IN 1/2" C. OR AS REQUIRED BY LOAD
- EMPTY PVC CONDUIT
- TELEPHONE / DATA RECEPTACLE PROVIDE CAT6 IN CONDUIT BACK TO SERVER CLOSET OR AS DIRECTED BY OWNER
- ELECTRICAL PANEL, EXISTING
- PROVIDE NEW WALL OCCUPANCY SENSOR TO CONTROL LIGHT AND FAN
- UNDER COUNTER
- CAMERA MOUNTED IN CEILING WITH POWER AND DATA
- SMOKE DETECTOR
- FIRE ALARM PULL STATION
- AUDIO/VISUAL FIRE ALARM DEVICE
- EXIT/EM LIGHT, NEW
- EXIT/EM LIGHT, EXISTING
- RECESSED FLOOR BOX WITH POWER AND DATA
- LUTRON SKYLARK 1000W SINGLE POLE DIMMER SWITCH MODEL: S-10P-WH
- OPERATING ROOM LIGHTS FURNISHED BY OTHERS



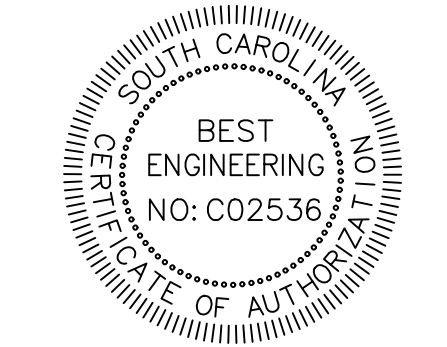
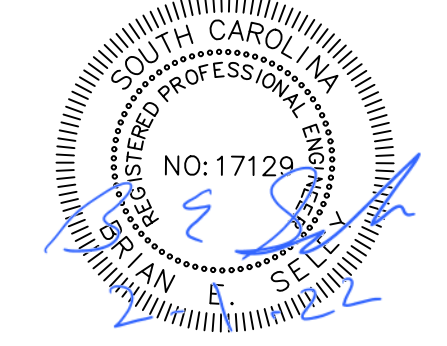
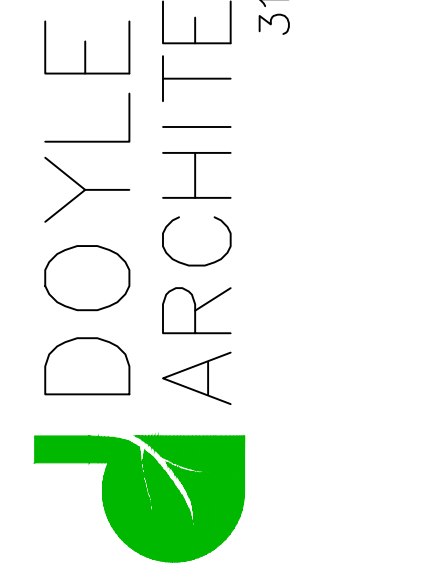
**1 ELECTRICAL POWER PLAN**  
 SCALE: 1/4" = 1'-0"

**PLAN KEY NOTES:**

- PANELS LOCATED APPROXIMATELY 50' TO PLAN RIGHT.
- USE EXISTING LIGHTING CIRCUITS WHERE POSSIBLE.
- RECEPTACLES IN ROOM MOUNTED 36"-44" AFF.
- ALL RECEPTACLES IN ROOM TO BE RED W/ RED COVER TO DESIGNATE EMERGENCY POWER.
- ALL FIRE ALARM DEVICES SHALL BE TESTED AFTER MOVED TO NEW LOCATION.
- IN CEILING FOR PROJECTOR.
- DETERMINE MOUNTING HEIGHT IN FIELD.
- PROVIDE EXIT SIGN THAT POINTS TOWARD DOOR AT PLAN SOUTH.
- ELECTRIC DOOR LOCK.



**1 ELECTRICAL LIGHTING AND FIRE ALARM PLAN**  
 SCALE: 1/4" = 1'-0"



DATE: Dec 30, 2021  
 Construction Documents

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REVISIONS:  
 1. MODIFIED PER ADDENDUM 2

TITLE:  
**ELECTRICAL FLOOR PLAN, LEGEND & NOTES**

SHEET:  
**E2.0**