



Application for Fire Marshal Plan Review

Type of Review Requested:

Site Plan Review

Building Plan Review

Project Information

Project Name:

Project Physical Address:

PIN #:

Plan Information

Plans Submitted by:

Contact Person:

Contact Phone #:

Contact Email: druppe@blakegc.com

Contractor Information

Contractor/Company Name: Blake Contracting LLC

Company Mailing Address: blake@blakegc.com

Primary Contact Name: Daniel Ruppe

Contact Phone #: (864)491-2746

Contact Mail: druppe@blakegc.com

- Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the eTrakit portal, or by calling the Harnett County Central Permitting Department (910-893-7525, Option #1) or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be obtained through Central Permitting (via centralpermitting@harnett.org email) at the time of payment; payment can be made over the phone (910-893-7525, Option #1) or at the Central Permitting Office (420 McKinney Parkway Lillington, NC 27546).
- All fees must be paid before any required inspections can be conducted.

LIFE SAFETY LEGEND

	Unrated wall		Exterior Exit
	Smoke Partition		Compartment ID
	1 Hour Fire Barrier		Suite ID
	2 Hour Fire Barrier		Hazardous Area
	1 Hour Fire Smoke Barrier		Distance to Exit
	2 Hour Fire Smoke Barrier		
	Exit Stairwell		
	Suites		
	Exit Discharge Passageway		
	Area under Construction		

SCHEDULES AND NOTES

1ST FLOOR - EXISTING HEALTHCARE OCCUPANCY

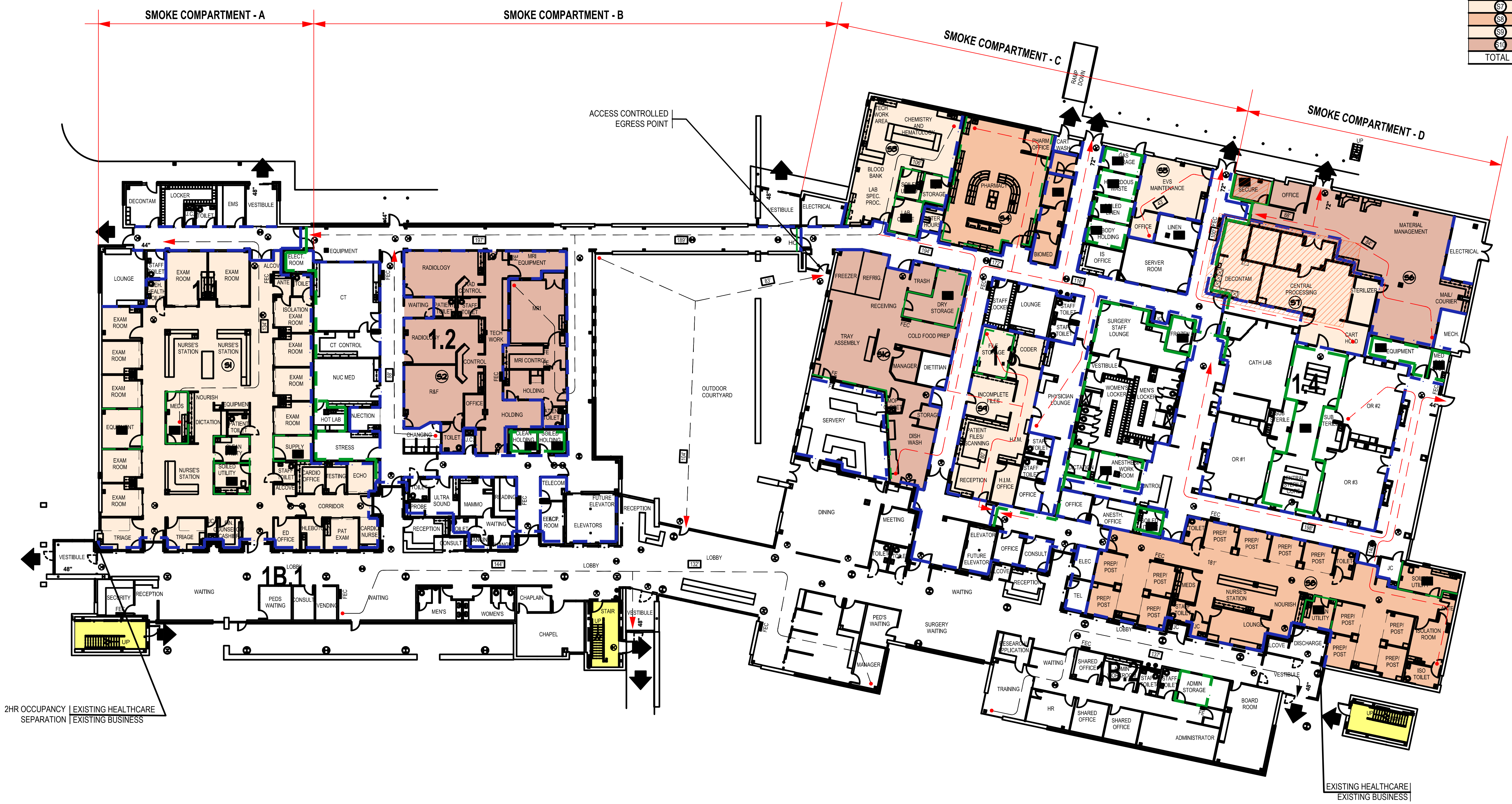
COMPARTMENT ID	COMPARTMENT SQ. FT.	OCCUPANT LOAD	SPRINKLER SYSTEM	AREA USE	DISTANCE EXIT
1.1	10,122	34	FULL	TREATMENT	134'
1.2	11,508	86	FULL	TREATMENT	197'
1.3	15,383	55	FULL	TREATMENT	194'
1.4	18,970	38	FULL	TREATMENT	130'
TOTAL	55,983	213			

1ST FLOOR - EXISTING BUSINESS OCCUPANCY

COMPARTMENT ID	COMPARTMENT SQ. FT.	OCCUPANT LOAD	SPRINKLER SYSTEM	AREA USE	DISTANCE EXIT
1B.1	17,629	35	FULL	BUSINESS	144'
	14,540	29	FULL	BUSINESS	137'
TOTAL	32,169	64			

1ST FLOOR - SUITE INFORMATION

SUITE ID	SUITE SQ. FT.	SLEEPING/ NON SLEEPING	NUMBER OF INTERVENING RMS	REMOTE EXIT REQUIREMENTS	DISTANCE EXIT
S1	8,042	NON SLEEPING	1	2 REMOTE EXITS	134'
S2	3,768	NON SLEEPING	1	1 REMOTE EXIT	88'
S3	1,162	NON SLEEPING	1	1 REMOTE EXIT	106'
S4	1,750	NON SLEEPING	1	1 REMOTE EXIT	70'
S5	546	NON SLEEPING	1	1 REMOTE EXIT	43'
S6	1,786	NON SLEEPING	1	1 REMOTE EXIT	84'
S7	1,596	NON SLEEPING	1	1 REMOTE EXIT	100'
S8	4,716	NON SLEEPING	1	1 REMOTE EXIT	181'
S9	1,440	NON SLEEPING	1	1 REMOTE EXIT	80'
S10	3,120	NON SLEEPING	1	1 REMOTE EXIT	172'
TOTAL	28,076				

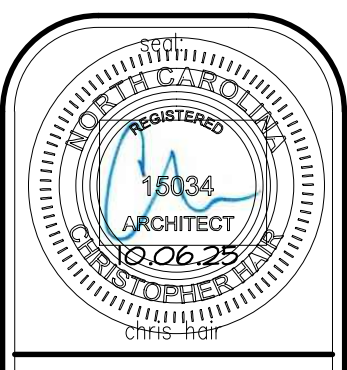


2HR OCCUPANCY | EXISTING HEALTHCARE
SEPARATION | EXISTING BUSINESS

EXISTING HEALTHCARE | EXISTING BUSINESS

C.D. HAIR ARCHITECT
 2255 Vista Parkway
 Suite 12
 West Palm Beach, FL
15034

revision:



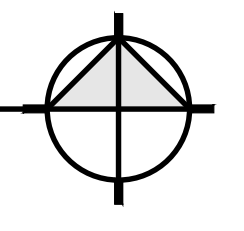
An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brighthouse Drive
 Lillington, North Carolina

job no. 24-029
 principal: CHRIS HAIR
 CH
 file name:
 date: 09.26.25
 title:

LIFE SAFETY PLAN

A010

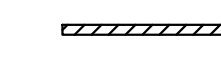
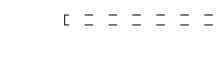
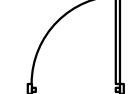
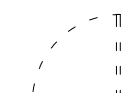
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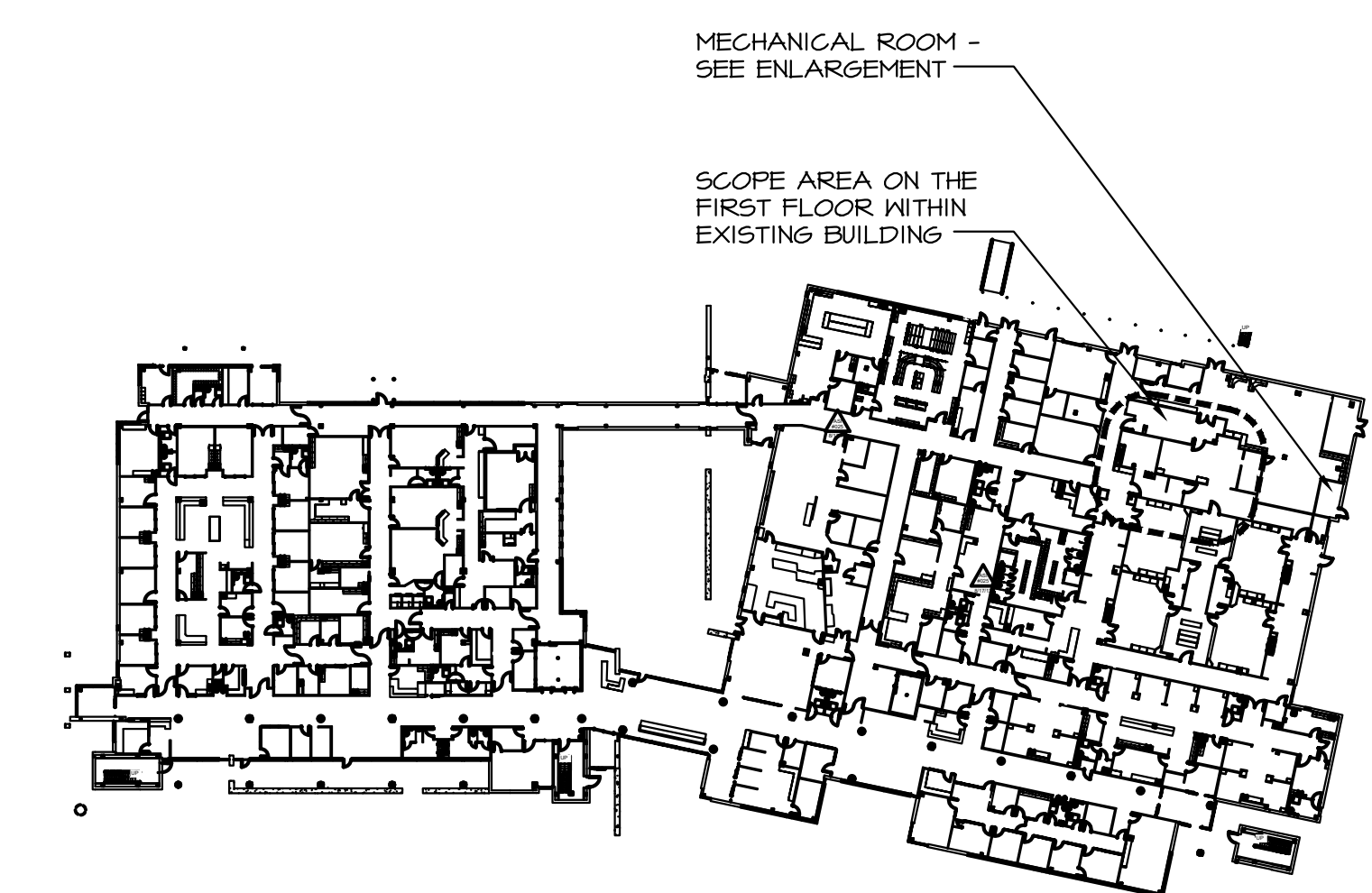
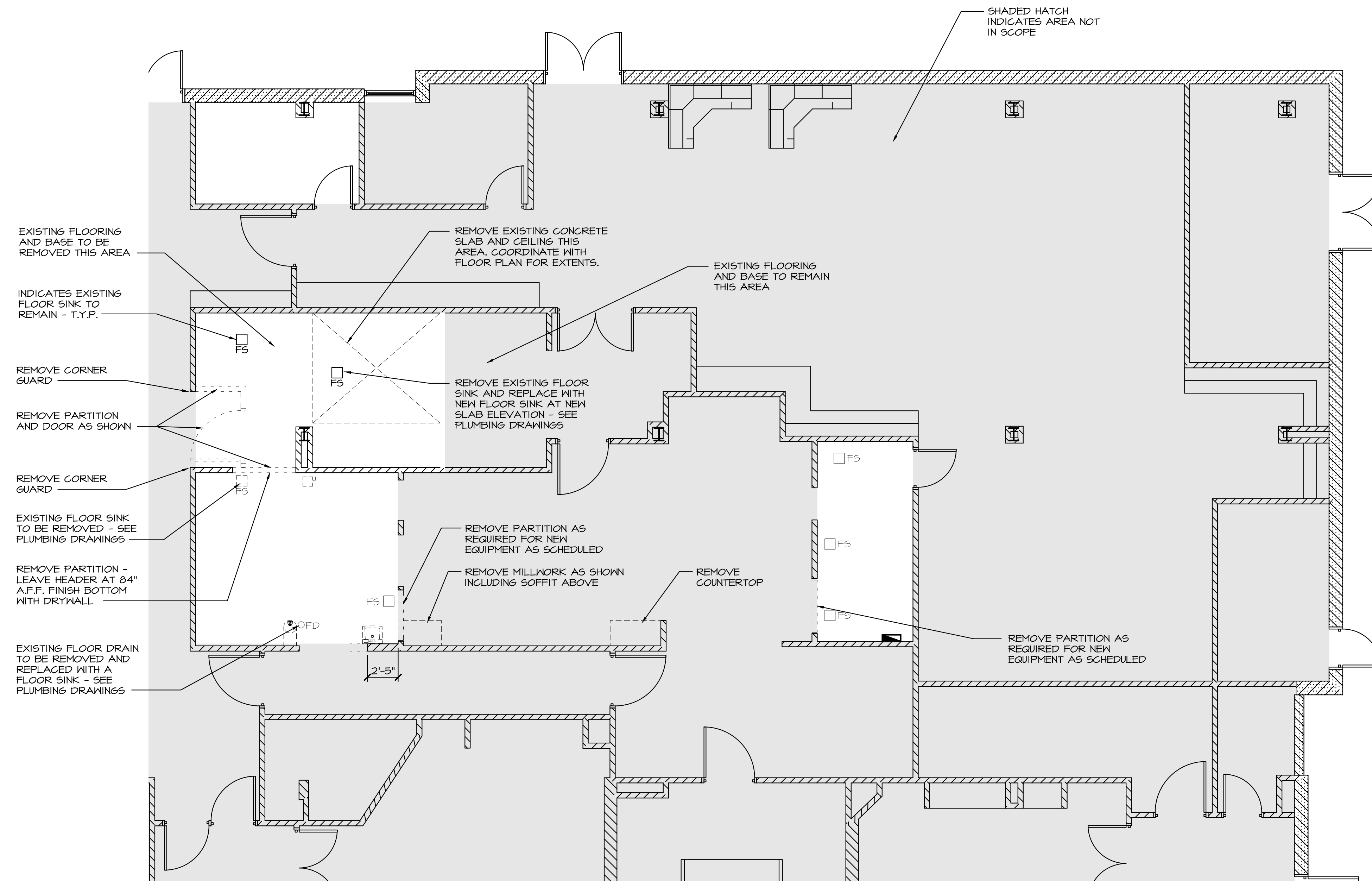
DEMOLITION NOTES:

1. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING INSTALLATIONS ABOVE THE CEILING. EXISTING WALLS SHALL BE PATCHED WHERE ITEMS WERE REMOVED TO MATCH ADJACENT SURFACES.
2. DUST BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED THROUGH THE COURSE OF CONSTRUCTION TO MINIMIZE THE SPREAD OF CONSTRUCTION DUST.
3. PROTECT EXISTING WALLS TO REMAIN. ALL EXISTING WALLS TO REMAIN TO BE FINISHED TO ACHIEVE 'AS NEW' APPEARANCE.
4. PATCH EXISTING CEILINGS AS REQUIRED DUE TO INSTALLATION OF OVERHEAD EQUIPMENT.
5. CUT EXISTING SLAB WHERE SHOWN FOR THE NEW PIT. CUT CONCRETE IN STRAIGHT CLEAN LINES. COORDINATE WITH THE FLOOR PLAN FOR EXTENTS.
6. REMOVE EXISTING FLOORING WHERE SHOWN ON THE DEMOLITION PLAN.

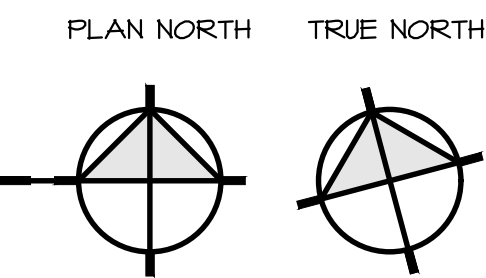
SYMBOL LEGEND:

-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE REMOVED
-  EXISTING DOOR TO REMAIN
-  EXISTING DOOR TO BE REMOVED

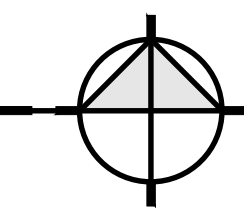
NOTE: ALL ITEMS SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE



FIRST FLOOR DEMOLITION PLAN
3/16"=1'-0"

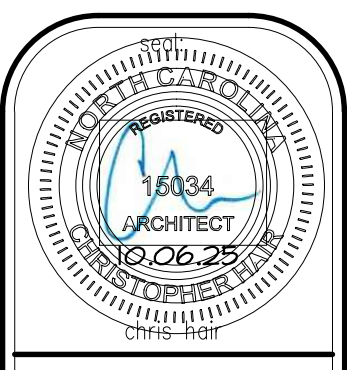


OVERALL FIRST FLOOR PLAN
NTS



C.D. HAIR ARCHITECT
8401 Lake Worth Road
Suite 119
Lake Worth, FL
15034

revision:



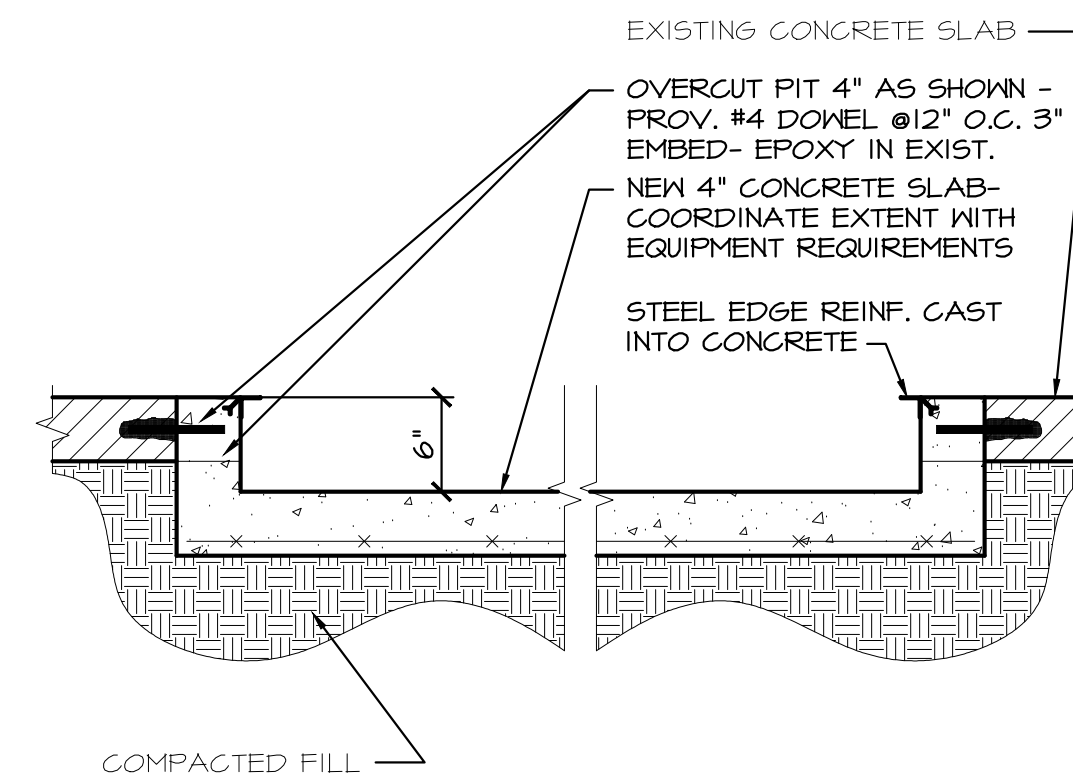
An Interior Renovation for:
**Harnett Health
Central Sterile Renovation**
215 Brighwater Drive
Lillington, North Carolina

job no. 24-029
principal: CHRIS HAIR
CH
file name:
date: 09.26.25
title:

DEMOLITION PLAN

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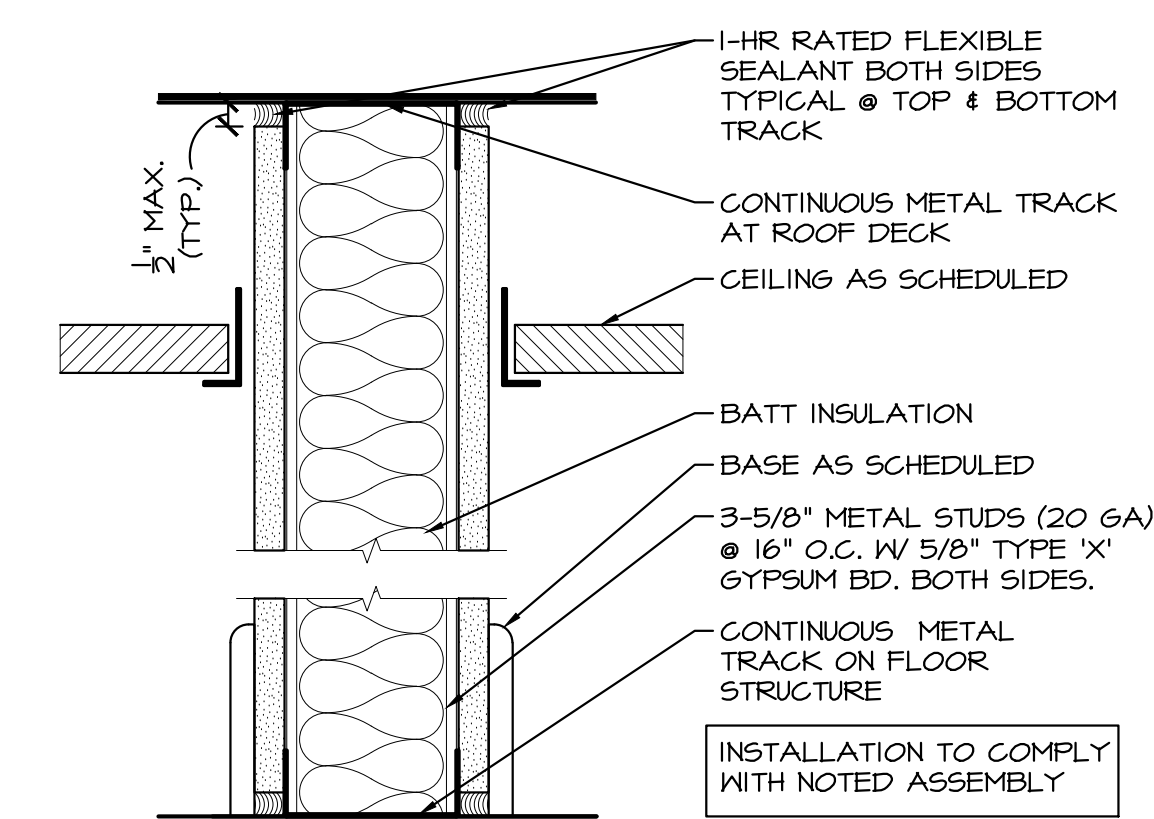
**EXISTING / NEW
CONCRETE SLAB CONNECTION** A
1" = 1'-0" AS10

STRUCTURAL NOTES:

1. ALL WORK SHALL CONFORM TO AT MINIMUM, THE STANDARDS OF THE SOUTH CAROLINA BUILDING CODE, 2021.
2. FOUNDATION DESIGN VALUE CERTIFICATION: THIS IS TO CERTIFY THAT THIS OFFICE HAS DETERMINED BY RATIONAL ANALYSIS AND THE FACT THAT THE SITE IS IN A DEVELOPED AREA THAT THE ALLOWABLE IN-PLACE BEARING CAPACITY FOR THE PROPOSED FOOTING IS 2,000 PSF.
3. THE SLAB UNDER THE EQUIPMENT IS NEW AND SHALL BEAR ON COMPACTED SOIL (3,000 PSF MIN). OBTAIN COMPRESSION TESTS VERIFYING BEARING CAPACITY. COMPACT TO 45% MODIFIED PROCTOR.
4. SEE CONCRETE NOTES FOR NEW EQUIPMENT SLAB.
5. CONTRACTOR SHALL SUBMIT A DESIGN MIX ATTESTING TO THE CONCRETE STRENGTH. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR MAINTAINING STRENGTH AND PROPER SLUMP DURING CONSTRUCTION.
6. MESH IN SLABS TO BE 6X6 W2.9X2.9. CHAIR IN MID HEIGHT OF SLAB.
7. PROVIDE TERMITE TREATMENT TO SOIL AT ALL NEW CONCRETE SLABS OR SLAB ALTERATIONS; SUBMIT INSECTICIDE FOR APPROVAL.
8. COORDINATE WITH THE RESPECTIVE EQUIPMENT DRAWINGS FOR EXACT PLACEMENT OF UNDERSLAB PIPING.
9. REFER TO THE RESPECTIVE EQUIPMENT DRAWINGS FOR FLOOR LEVEL TOLERANCES.

CONCRETE NOTES:

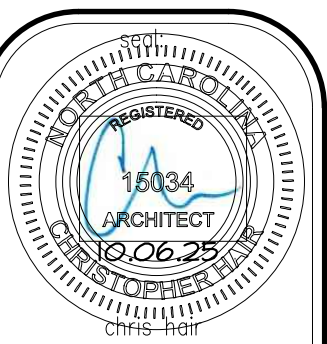
- CONCRETE AND REINFORCING
- 3a CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-11)
- 3b ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:
- | | MAX. SLUMP | WATER/CMT |
|--|------------|-----------|
| SLAB ON GRADE & SCANNER PADS- 4000 PSI 54" | 0.56 | |
- 3c CONCRETE MIX DESIGN SUBMITTALS MUST INCLUDE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, FILLED CELLS, COLUMNS, etc.) FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
- 3d REBARS SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 3e MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
- | | |
|----------------|------------------|
| FOOTINGS | 3" |
| SLABS ON GRADE | 1 1/2" FROM TOP |
| BEAMS | 1 1/2" (ON TIES) |
| COLUMNS | 1 1/2" (ON TIES) |
- 3f SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.
- | | |
|--------------------|-------------------|
| WELDED WIRE FABRIC | 6" |
| ALL OTHER | 36 DIA. (12" MIN) |
- 3g REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 36 BAR DIA AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS.
- 3h TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.
- 3i CONTINUOUS TOP BARS SHALL BE SPLICED AT MIDSPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).



**1-HOUR RATED
PARTITION - (U.L. #U465)** I
3" = 1'-0" AS10

C.D. HAIR ARCHITECT
2255 Vista Parkway
Suite 12
West Palm Beach, FL
15034

revision:



An Interior Renovation for:
**Harnett Health
Central Sterile Renovation**
215 Brightwater Drive
Lillington, North Carolina

job no. 24-029
principal: CHRIS HAIR
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file name:
date: 09.26.25
title:

DETAILS

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FINISH SCHEDULE						REMARKS
ROOM #	DESCR.	FLOOR	WALLS	BASE	CEILING	
1033	DECONTAM	RS-1	PT-1	CB-1	EXIST GNB	
1027	MECHANICAL	RS-1	PT-1	CB-1	EXIST	
1035	STERILIZER	EXIST	EXIST	EXIST	EXIST	
ABBREV. UNO = UNLESS OTHERWISE NOTED, MS = MANUFACTURER STANDARD, EX = EXISTING, EXP = EXPOSED ALL FINISHES TO BE VERIFIED BY OWNER PRIOR TO PURCHASE AND INSTALL.						

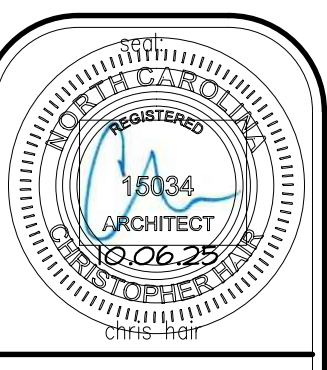
MANUFACTURER SPECIFICATIONS			
DESCR.	MANUF.	MODEL	REMARKS
RESIN (RS-1)	-	MATCH EXISTING	BLEND W/ EXIST. FLOOR, PROVIDE 6" INT. FLASH COVE BASE (CB-1)
CEILING	-	-	EXIST. GNB CEILING TO RECEIVE PAINT
PAINT (PT-1)	SHERM WILL	ACCESSIBLE BEIGE - SNT036	LATEX PAINT
PAINT (PT-2)	SHERM WILL	IRON ORE - SNT069	LATEX PAINT - DOOR FRAMES
CORNER GUARDS (CG-1)	-	STAINLESS STEEL - MATCH EXIST. ADJ.	FULL HEIGHT, CORNER PROTECTION
HIGH IMPACT WALL PROTECTION (WP-1)	INPRO	COLOR - MATCH EXIST. ADJ.	40" H. WALL PROTECTION
ABBREV. UNO = UNLESS OTHERWISE NOTED, MS = MANUFACTURER STANDARD, EX = EXISTING, EXP = EXPOSED, ME = MATCH EXISTING ALL FINISHES TO BE VERIFIED BY OWNER PRIOR TO PURCHASE AND INSTALL.			

FINISH NOTES:

- ALL FINISHES SHALL MEET THE REQUIREMENTS OF NBC 2010 CHAPTER 8, TABLE 803.11:
 - VERTICAL EXITS AND EXIT PASSAGEWAYS - CLASS B
 - EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS - CLASS C
 - ROOMS AND ENCLOSED SPACES - CLASS C
- ALL FINISHES TO BE APPROVED BY TENANT PRIOR TO INSTALLATION.
- PROVIDE APPROPRIATE HANDICAP ACCESSIBLE THRESHOLDS WHERE FLOOR CHANGES MATERIAL.
- ALL EXISTING DRYWALL WALLS WITHIN THE SCOPE AREA SHALL BE PAINTED W/ ONE COAT EGGSHELL FINISH LATEX PAINT AS REQUIRED TO COVER. ALL WALLS SHALL THEN BE PAINTED WITH ONE COLOR EGGSHELL FINISH, ONE COAT, SEE FINISH SCHEDULE FOR COLORS.

C.D. HAIR ARCHITECT
 2255 Vista Parkway
 Suite 12
 West Palm Beach, FL
15034

revision:



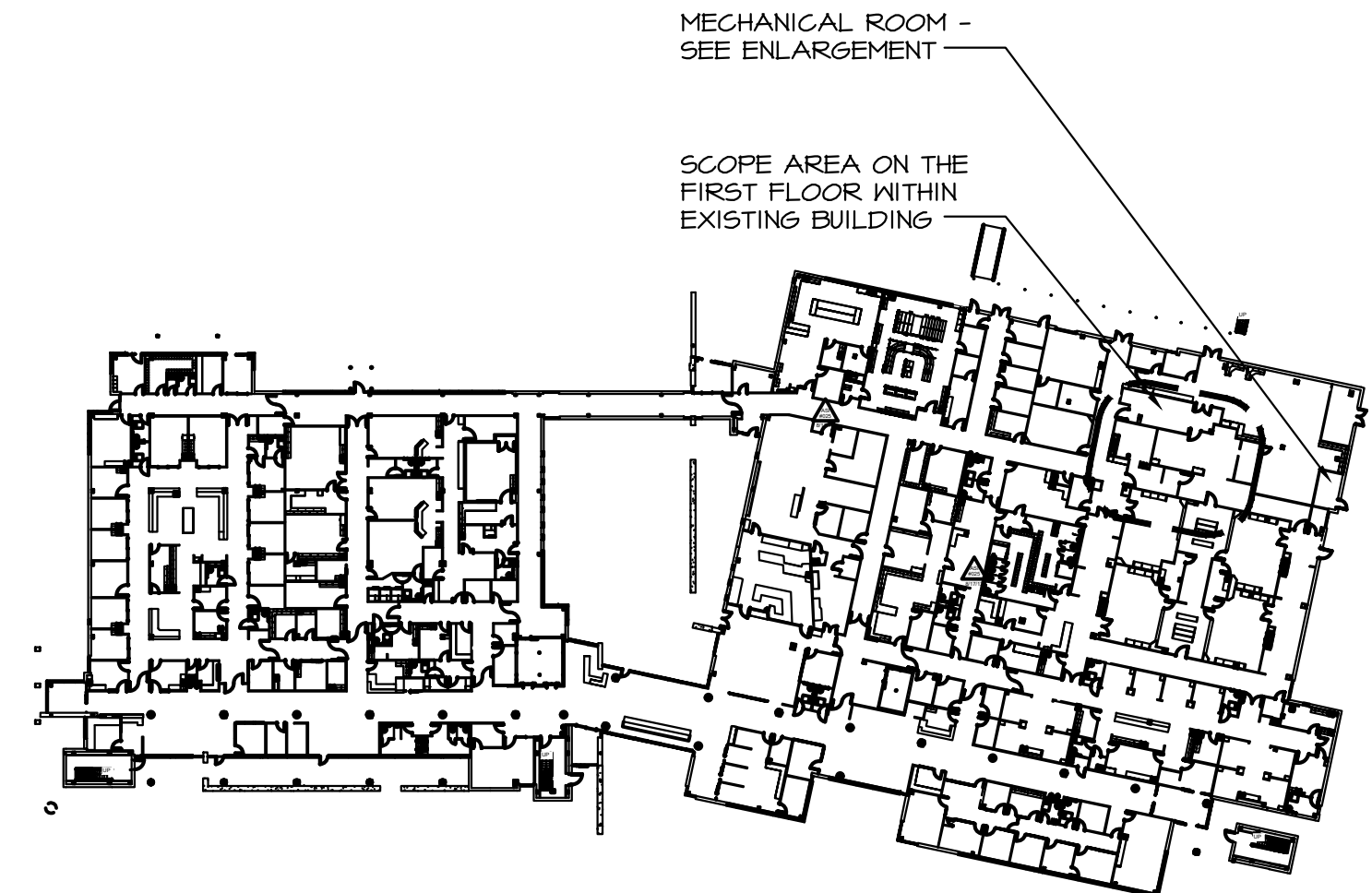
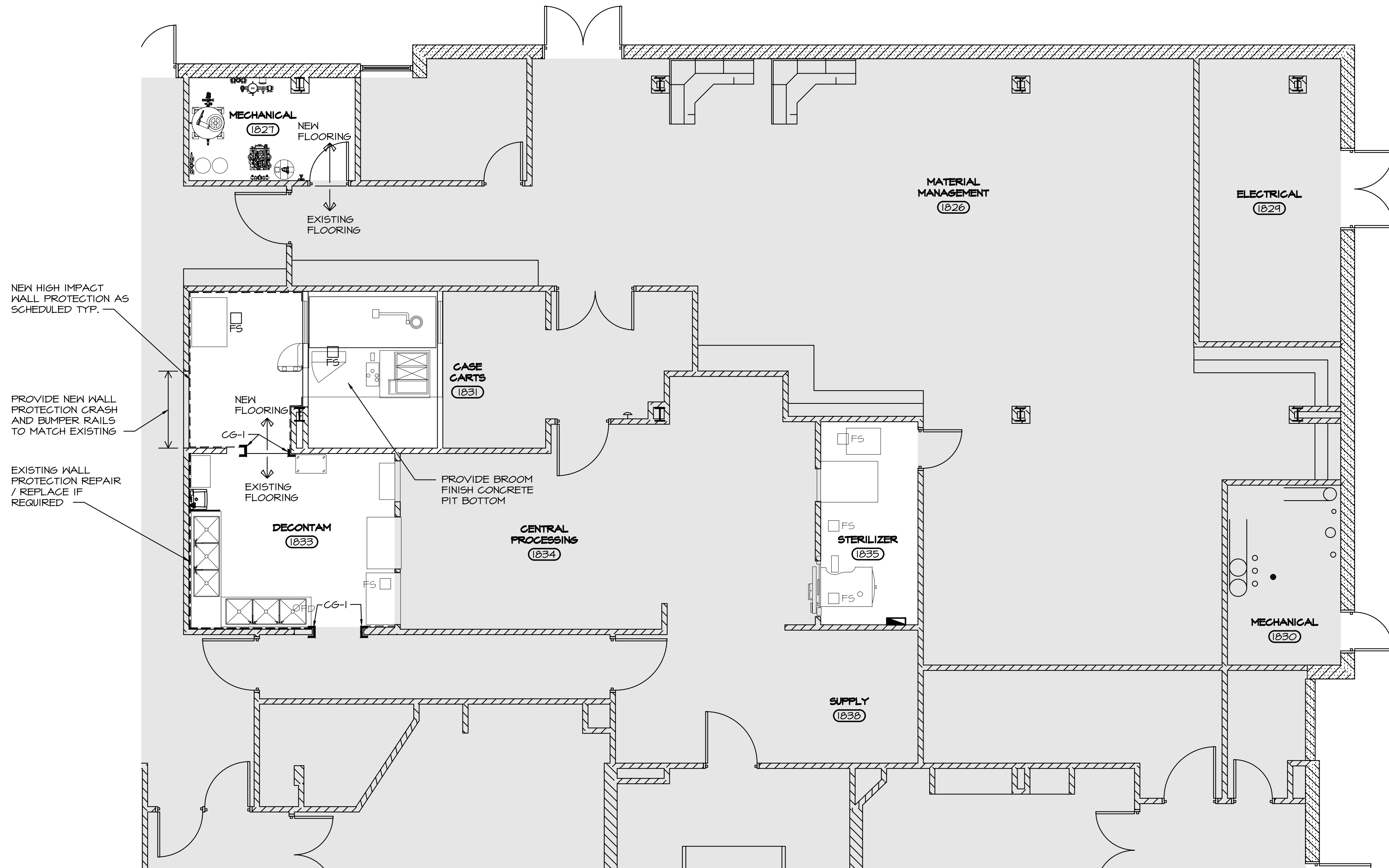
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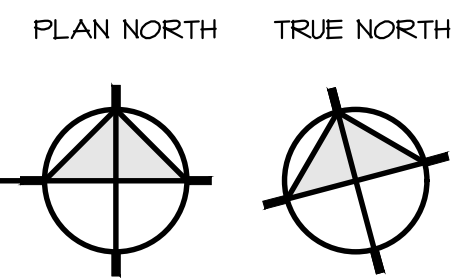
FINISH PLAN

A910

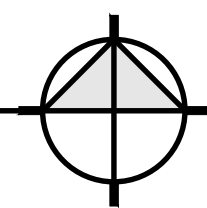
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FINISH PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS



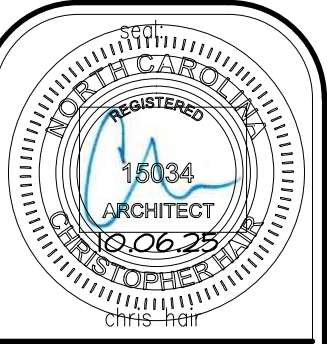
ICRA CLASSIFICATION DATA	
CONSTRUCTION TYPE:	I-B
CONSTRUCTION CLASS:	II
RISK CLASS:	MEDIUM
CONSTRUCTION PROTOCOLS	
DURING CONSTRUCTION	UPON COMPLETION
1. SEAL SITE SUPPLY AND RETURN AIR DIFFUSERS.	1. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY THE OWNERS SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED BY THE OWNERS ENVIRONMENTAL SERVICES DEPARTMENT.
2. INSTALL TEMPORARY ZIPWALL BARRIER AS SHOWN ON DETAIL 1, THIS SHEET.	2. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
3. PROVIDE A TEMPORARY NEGATIVE AIR UNIT WITH HEPA FILTRATION TO PLACE PROJECT SITE AT NEGATIVE PRESSURE.	3. VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
4. PROVIDE SHOE COVERS AND TEMPORARY WALK OFF ADHESIVE MATS AT EXIT OF PROJECT AREA.	4. WET MOP AREA WITH DISINFECTANT.
5. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.	5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

PLAN KEYNOTES
① PRIOR TO CONSTRUCTION, SEAL OFF APPLICABLE SITE SUPPLY AND RETURN AIR DIFFUSERS AND GRILLES TO MINIMIZE DUST CONTAMINATION OF DUCTWORK AND SURROUNDING AREAS. PROVIDE NEGATIVE PRESSURE WITHIN THE PROJECT AREA RELATIVE TO THE AREAS SURROUNDING THE PROJECT AREA AS WELL AS HEPA AIR FILTRATION. PROVIDE MEANS OF MONITORING THE AIR PRESSURE FOR THE ENTIRE DURATION OF CONSTRUCTION.
② SEAL EXISTING AREA WITH FIRE RETARDANT VISQUEEN ABOVE THE CEILING. TAPE PERIMETER SUCH THAT AN AIR TIGHT BARRIER IS ACHIEVED.
③ PROVIDE WALK-OFF MAT
④ PROVIDE TEMPORARY EDGE GUARD CONTAINMENT BARRIER

ICRA PLAN NOTES
1. THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE AND NOTIFY THE ARCHITECT IMMEDIATELY OF DISCREPANCIES.

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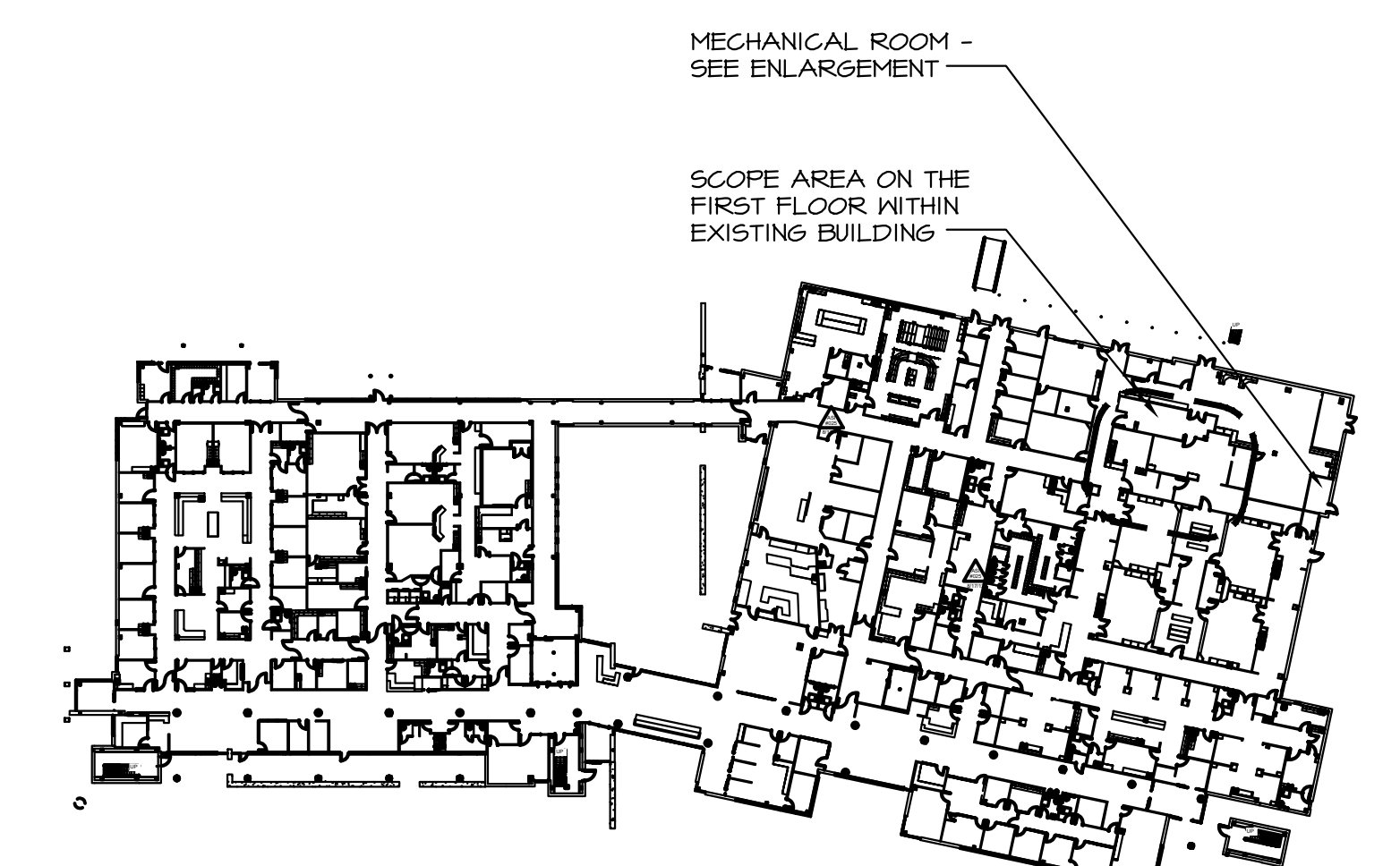
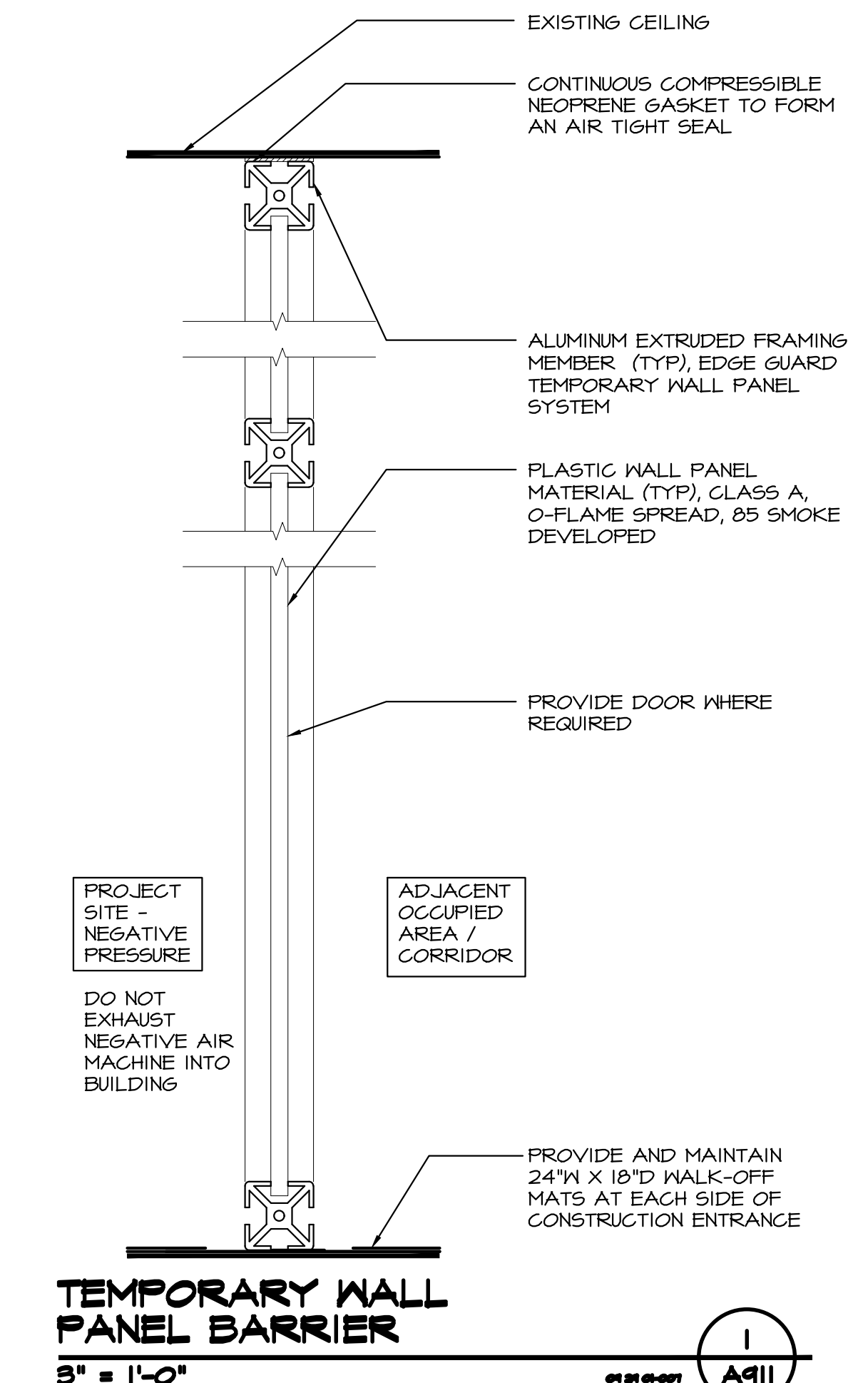
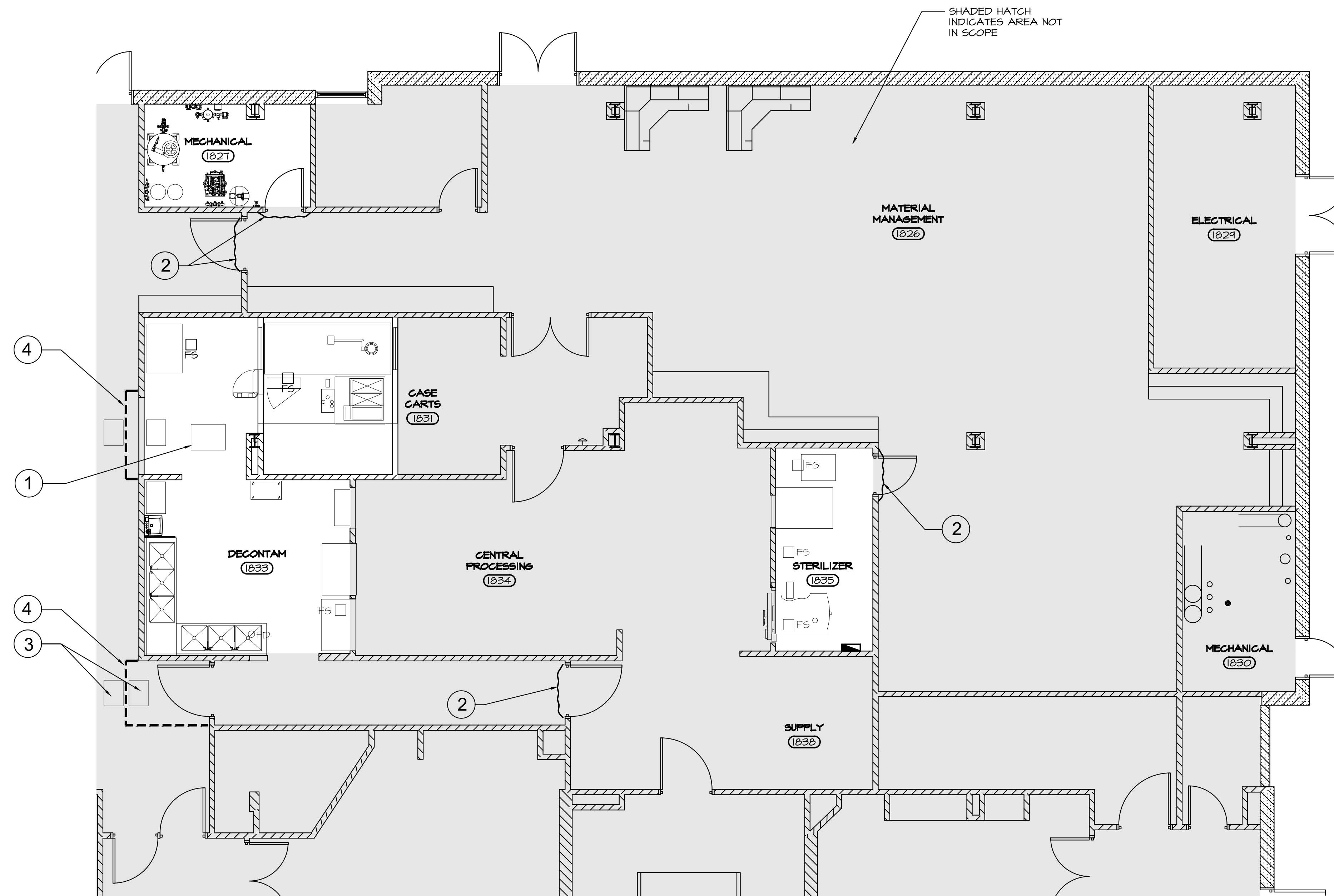


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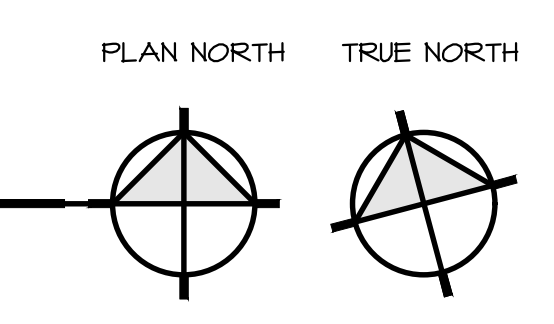
job no.	24-029
principal:	CHRIS HAIR CH
file name:	
date:	09.26.25
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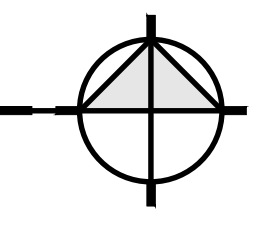
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ICRA COORDINATION PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS



ELECTRICAL NOTES

<p>1. THE CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2018 NORTH CAROLINA STATE BUILDING CODE, 2017 NEC, 2015 NFPA101, 2013 NFPA72, AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES AND AUTHORITIES.</p> <p>2. DO NOT SCALE DRAWINGS: VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.</p> <p>3. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".</p> <p>4. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.</p> <p>5. PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE DRAWN TO SCALE.</p> <p>6. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.</p> <p>7. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS. EVEN IF SUCH AREAS ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS, LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.</p> <p>8. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING.</p> <p>9. PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.</p> <p>10. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, CONSISTENT WITH THE HIGHEST LEVEL OF STANDARDS AND TO THE SATISFACTION OF THE ARCHITECT.</p> <p>11. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.</p> <p>12. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.</p> <p>13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.</p> <p>14. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.</p> <p>15. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.</p> <p>16. THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER.</p> <p>17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ELECTRICAL UTILITY COMPANY FURNISHED CONDUIT FOR THE PRIMARY CONDUCTORS FROM THE PRIMARY POINT OF CONNECTION TO THE PAD MOUNT TRANSFORMER, PROVIDING A CONCRETE PAD PER ELECTRICAL UTILITY CO. REQUIREMENTS, AND TO COORDINATE WITH ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.</p>	<p>18. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.</p> <p>19. WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLOURESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.</p> <p>20. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULL WIRE OR EQUIVALENT AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.</p> <p>21. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME. SUBMITTAL SHALL BE SUBMITTED IN PDF FORM WITH CONTRACTOR APPROVAL PRIOR TO SUBMITTAL. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.</p> <p>22. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.</p> <p>23. CONTRACTORS FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL. EQUIPMENT OR INSTALLATION METHODS.</p> <p>24. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.</p> <p>25. RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS.</p> <p>26. BOXES FOR TELEPHONE, T.V., COMPUTER, WIRING DEVICES, ETC., SHALL BE MINIMUM 4" SQUARE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL AND INTERIOR DRAWINGS FOR ALL ROUGH-IN LOCATIONS FOR APPLIANCES. IF NO LOCATION IS INDICATED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION.</p> <p>27. GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS TO COMPLY WITH NEC 517.13 (A) & (B) AND NEC 517.31</p> <p>28. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITIES</p> <p>29. THE LIGHTING HAS BEEN DESIGNED IN ACCORDANCE OF THE STATE OF NORTH CAROLINA STATE BUILDING CODE, ENERGY EFFICIENCY CODE, CHAPTER 13 (2018 EDITION).</p> <p>30. VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED WITH A MAXIMUM OF 5 PERCENT VOLTAGE DROP TOTAL. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH CHAPTER 13 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.</p> <p>31. THE CONTRACTOR SHALL HAVE A QUALIFIED PERSON COMMISSION ALL LIGHTING CONTROL SYSTEMS PRIOR TO OBTAINING THE C.O. THE PERSON SHALL TRAIN THE OWNER ON THE OPERATION OF THE LIGHTING CONTROLS.</p> <p>32. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUIVALENT PROTECTION. MET FITTINGS SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.</p> <p>33. NON-METALLIC AND FLEXIBLE CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.</p> <p>34. FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).</p>	<p>35. THE CONTRACTOR SHALL PROVIDE GFCI PROTECTION FOR PERSONNEL AS PER 2017 NEC 210.8(B).</p> <p>36. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.</p> <p>37. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" C. SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. FLUSH MOUNTED PANEL SHALL BE INSTALLED IN 6" WALLS. COORDINATE WITH GENERAL CONTRACTOR.</p> <p>38. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.</p> <p>39. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., IN MOTOR CONTROL. STARTERS AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSH BUTTONS OR SELECTOR SWITCH AS REQUIRED. IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED, SUBMIT ELEMENTARY CONTROL DIAGRAMS FOR APPROVAL. SUBMITTALS SHALL INCLUDE INDICATION OF PRIOR REVIEW AND ACCEPTANCE BY TEMPERATURE CONTROL CONTRACTOR. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.</p> <p>40. RECEPTACLE AND TELEPHONE OUTLETS AT COUNTER SHALL BE MOUNTED WITH THEIR LONG AXIS HORIZONTAL AT +42" UNLESS NOTED.</p> <p>41. PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.</p> <p>42. DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS "R" FUSES ONLY. AND REJECT ALL OTHERS.</p> <p>43. PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.</p> <p>44. DEVICES SHALL BE AS FOLLOWS: (OR OTHERWISE AS NOTED) A. SWITCHES - HUBBELL #5362 SERIES B. SWITCHES - HUBBELL #1221 SERIES C. DIMMERS - LUTRON "NOVA" SERIES D. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT. IN DAMP OR WET LOCATIONS COVER PLATES SHALL BE STAINLESS STEEL. IN DRY LOCATIONS COVER PLATES SHALL BE SMOOTH HIGH ABUSE NYLON OR EQUIVALENT. PROVIDE COVER PLATES FOR SWITCHES, RECEPTACLES, TELEPHONE, TELEVISION, COMPUTER, AND J-BOX OUTLETS AS REQUIRED.</p> <p>45. THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR PROVIDING THE REQUIRED CONDUIT SIZE AND NUMBER TO THE TENANT SPACE. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL CORDS AND SHALL INSTALL FROM THE LOCAL TELEPHONE BOARD TO THE MAIN POINT OF SERVICE</p> <p>46. FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES. EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.</p> <p>47. SEE DIVISION 22 & 23 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.</p> <p>48. SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT</p>	<p>49. PROVIDE A GREEN GROUND CONDUCTOR AND METAL RACEWAY IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS & PATIENT CARE ROOMS AS PER 2017 NEC 517.13. PROVIDE EMT METAL RACEWAY OR HEALTH CARE RATED MC CABLE AS PER 2017 NEC 517.13.</p> <p>50. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE HOT GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300, OF THE NEC.</p> <p>51. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.</p> <p>52. PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.</p> <p>53. FLUSH FLOOR RECEPTACLE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-3725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.</p> <p>54. FLUSH FLOOR TELEPHONE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-2725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.</p> <p>55. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.</p> <p>56. RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.</p> <p>57. FIXTURES RECESSED IN "T-BAR" U.L. FIRE RATED CEILING ASSEMBLIES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH FLEXIBLE U.L. APPROVED ASSEMBLY.</p> <p>58. CONDUITS PENETRATING THRU ROOF SHALL HAVE FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.</p> <p>59. PROVIDE A GREEN GROUND CONDUCTOR AND METAL RACEWAY IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS & PATIENT CARE ROOMS AS PER 2017 NEC 517.13. PROVIDE EMT METAL RACEWAY OR HEALTH CARE RATED MC CABLE AS PER 2017 NEC 517.13.</p> <p>60. AN ISOLATED GROUND RECEPTACLE SHALL NOT BE INSTALLED WITHIN A PATIENT CARE VICINITY AS PER 2017 NEC 517.16</p> <p>61. AUTOMATIC LIGHTING CONTROL DEVICES SHALL COMPLY WITH NFPA 101:7.8.1.2.2 (1) THROUGH (7).</p> <p>62. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL CONTROL DEVICES (OCCUPANCY/VACANCY SENSORS) WITH THE CORRECT CIRCUIT. ACCORDING TO CIRCUIT PANEL DESIGN FOR MAINTENANCE AS REQUIRED BY NEC 408.4.</p> <p>63. ADDITIONAL NOTES FOR NEW PANELBOARDS: A. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS. B. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F. C. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR. D. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES. E. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E, TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED F. CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS TWO (2) SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE. G. ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.</p>
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ELECTRICAL SYMBOL LIST

<p>S WALL SWITCH - 1 POLE - 125V - 20 AMP. MOUNT 46" A.F.F. 42" A.F.F. @ COUNTERTOPS OR AS NOTED. QUIET TYPE.</p> <p>S₃ WALL SWITCH - 3 WAY - 125V - 20 AMP. MOUNT 46" A.F.F. OR AS NOTED</p> <p>S_D DIMMER SWITCH - 125V - 1000W - 20 AMP. MOUNT 46" A.F.F. OR AS NOTED</p> <p>S_M MOTOR RATED "SNAP" SWITCH - 125V - 20 AMP. MOUNT AS NOTED</p> <p>☒ LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 120V-400W-6.7 AMP. MOUNT 46" A.F.F. OR AS NOTED. DUAL TECHNOLOGY</p> <p>☒ LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-400W-6 AMP. CEILING MOUNT OR AS NOTED. DUAL TECHNOLOGY</p> <p>☒ HOSPITAL GRADE DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED</p> <p>☒ HOSPITAL GRADE QUAD RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED</p> <p>GFI ☒ DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT. 125V - 20 AMP - NEMA 5-20R</p> <p>☒ HOSPITAL GRADE DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, CEILING MOUNTED.</p> <p>○ JUNCTION BOX MOUNTED ABOVE CEILING.</p> <p>⊙ JUNCTION BOX RECESS OR MOUNTED IN WALL.</p> <p>TV TELEVISION OUTLET MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.</p> <p>▶ ETHERNET OUTLET. MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.</p> <p>Ⓢ EXHAUST FAN - FRACTIONAL HORSEPOWER.</p> <p>Ⓢ MOTOR - NUMBER DENOTES HORSEPOWER.</p> <p>▨ PANELBOARD</p> <p>3P NF 30 NON-FUSED DISCONNECT SWITCH.</p> <p>3P 20 30 FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER ENCLOSURE.</p> <p>☐ PUSH BUTTON</p> <p>Ⓢ NURSE CALL -STAFF ASSIST/ CODE BLUE STATION. SEE DRAWINGS FOR ADDITIONAL DETAILS.</p> <p>Ⓢ NURSE CALL -CORRIDOR DOME LIGHT. SEE DRAWINGS FOR ADDITIONAL DETAILS.</p>	<p>W.P. WEATHERPROOF</p> <p>I.G. ISOLATED GROUND</p> <p>N.L. NIGHT LIGHT</p> <p>EM. EMERGENCY</p> <p>E OR EX EXISTING</p> <p>N. NEW</p> <p>Ⓢ EMERGENCY POWER OFF (EPO) BUTTON</p> <p>⊗ X-RAY "IN USE" LIGHT</p> <p>Ⓢ DOOR SAFETY SWITCH</p> <p>○ RECESSED LED DOWNLIGHT, SEE LUMINAIRE LIST.</p> <p>□ Z x 4' LED LAY-IN TROFFER, SEE LUMINAIRE LIST.</p> <p>Ⓢ EMERGENCY BATTERY PACK WITH LAMPS, SEE LUMINAIRE LIST.</p> <p>□ EXISTING Z x 4' LAY-IN TROFFER.</p> <p>— ELECTRICAL CONDUIT CONCEALED IN WALLS OR IN CONCRETE</p> <p>— ELECTRICAL CONDUIT UNDERGROUND</p> <p>— ELECTRICAL CONTROL WIRING</p> <p>— ELECTRICAL WIRE HOME-RUN, 1ST HASH MARK REPRESENTS THE HOT, SECOND HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND</p> <p>— ELECTRICAL MULTI-WIRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOTS, HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS</p> <p>— ELECTRICAL WIRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOTS, ARC WIRE MARK REPRESENTS THE GROUND</p>
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ELECTRICAL DRAWING LIST	
DRAWING NUMBER	DRAWING NAME
E01	ELECTRICAL NOTES, LEGEND AND SCHEDULES
E11	ELECTRICAL PLAN
E21	ELECTRICAL RISER AND PANEL SCHEDULES
E31	ELECTRICAL DETAILS

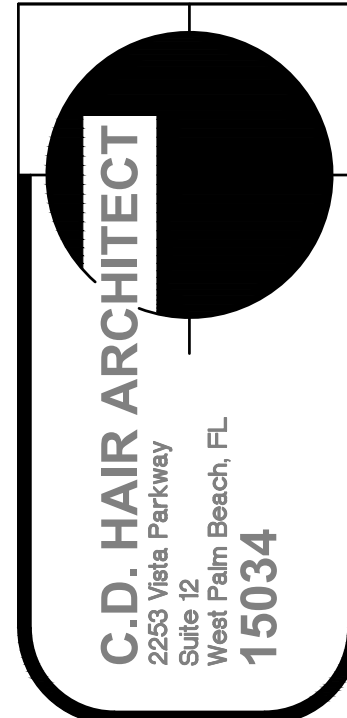
NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

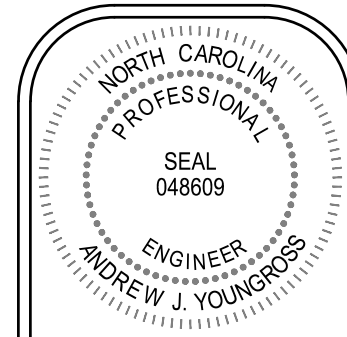
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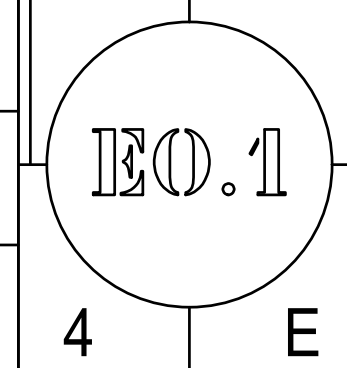
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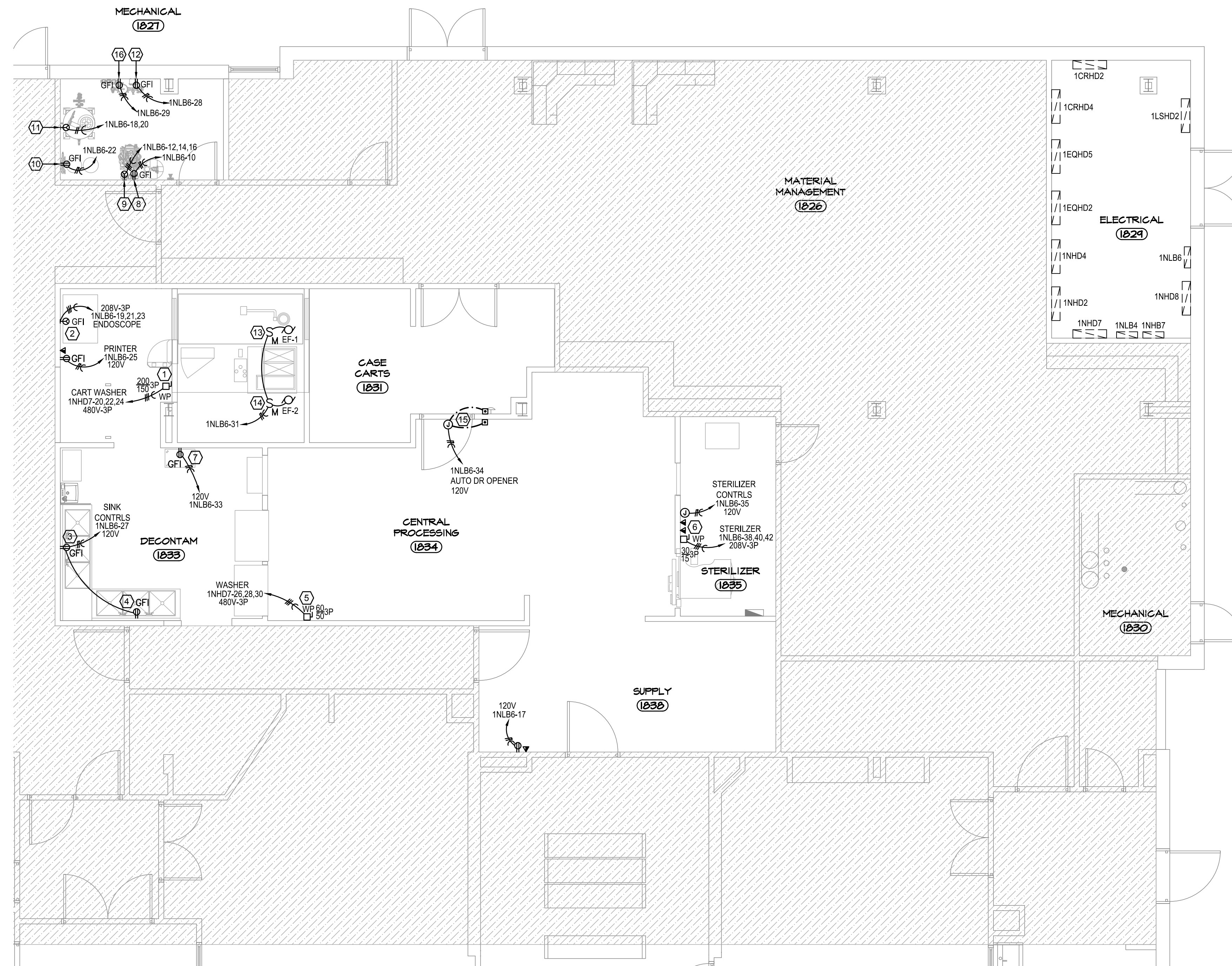


An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brightwater Drive
Lillington, North Carolina

job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:

date: 09.26.25
title: ELECTRICAL NOTES, LEGEND, AND SCHEDULES





PLAN KEY NOTES	
1	ITEM #01 - CART WASHER. FURNISH & INSTALL NEMA-3R, 200A-3P FUSED DISCONNECT (480V-3P, L1-L2-L3-GRD), PROVIDE 150A FUSES. COORDINATE DISCONNECT LOCATION WITH EQUIPMENT SUPPLIER.
2	ITEM #02 - ENDOSCOPE. FURNISH & INSTALL L15-30 LOCKING RECEPTACLE (208V-3P, L1-L2-L3-GRD). FURNISH AND INSTALL NORTH SHORE SAFETY #PGFS-83105-137 GFCI AUTO RECOVERY ON POWER LOSS (W/O NEUTRAL) INLINE WITH LOCKING RECEPTACLE. ALSO, INSTALL RECEPTACLE AND DATA OUTLET FOR ENDOSCOPE PRINTER. COORDINATE RECEPTACLE & DATA OUTLET LOCATION WITH EQUIPMENT SUPPLIER.
3	ITEM #04 - 3-COMPARTMENT PROCESSING SINK. FURNISH AND INSTALL 15A, 120V, GFCI, HOSPITAL GRADE RECEPTACLE (140W). COORDINATE RECEPTACLE WITH EQUIPMENT SUPPLIER.
4	ITEM #05 - 3-COMPARTMENT PROCESSING SINK. FURNISH AND INSTALL 15A, 120V, GFCI, HOSPITAL GRADE RECEPTACLE (140W). COORDINATE RECEPTACLE WITH EQUIPMENT SUPPLIER.
5	ITEM #06 - WASHER. FURNISH & INSTALL NEMA-3R, 60A-3P FUSED DISCONNECT (480V-3P, L1-L2-L3-GRD), PROVIDE 50A FUSES. COORDINATE DISCONNECT LOCATION WITH EQUIPMENT SUPPLIER.
6	ITEM #07 - STERILIZER. FURNISH & INSTALL NEMA-3R, 30A-3P FUSED DISCONNECT (208V-3P, L1-L2-L3-GRD), PROVIDE 15A FUSES. COORDINATE DISCONNECT LOCATION WITH EQUIPMENT SUPPLIER. PROVIDE 20A-1P CIRCUITRY FOR STERILIZER CONTROLS. PROVIDE A DATA OUTLET FOR EACH PIECE OF EQUIPMENT.
7	ITEM #08 - RELOCATED ULTRASOUND. FURNISH AND INSTALL 20A, 120V, GFCI HOSPITAL GRADE RECEPTACLE. COORDINATE RECEPTACLE WITH EQUIPMENT SUPPLIER.
8	RO #02 - RO CONTROLLER. FURNISH & INSTALL A DEDICATED NEMA 5-20R, HEAVY DUTY, HOSPITAL GRADE, GFCI, 120V RECEPTACLE, (L1,N, GND), COORDINATE HEIGHT WITH EQUIPMENT SUPPLIER.
9	RO #03 - RO PUMP. 250V-3 PHASE (L1,L2,L3, GND), COORDINATE WITH EQUIPMENT SUPPLIER WHETHER EQUIPMENT USES A HARD WIRED CONNECTION OR IF RECEPTACLE NEEDS TO BE PROVIDED. COORDINATE MOUNTING HEIGHT OF J-BOX OR RECEPTACLE WITH EQUIPMENT SUPPLIER.
10	RO #04 - DI EXCHANGE TANKS. DEDICATED NEMA 5-20R, HEAVY DUTY, HOSPITAL GRADE, GFCI, 120V RECEPTACLE (L1,N,GND). MOUNT AT 72" A.F.F.
11	RO #05 - DISTRIBUTION PUMP. NEMA 6-15R, 250V-1PHASE (L1,L2,GND) RECEPTACLE, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT SUPPLIER.
12	RO #06 - ALARM PANEL WITH REMOTE DI QUALITY LIGHT. DEDICATED NEMA 5-20R, HEAVY DUTY, HOSPITAL GRADE, GFCI, 120V RECEPTACLE (L1, N, GND), MOUNT AT 72" A.F.F.
13	FURNISH AND INSTALL NEMA-3R, 20A-120V MOTOR RATED SWITCH FOR MEANS OF DISCONNECT. EF-1 TO BE INTERLOCKED WITH CART WASHER OPERATION.
14	FURNISH AND INSTALL NEMA-3R, 20A-120V MOTOR RATED SWITCH FOR MEANS OF DISCONNECT. EF-2 TO BE INTERLOCKED WITH WASHER OPERATION.
15	AUTOMATIC DOOR OPENER. PROVIDE CONDUIT/CONDUCTORS TO AUTOMATIC DOOR OPENER MOTOR AND PUSH BUTTONS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER.
16	RO #07 - UV ASSEMBLY. DEDICATED NEMA 5-20R, HEAVY DUTY, HOSPITAL GRADE, GFCI, 120V RECEPTACLE (L1, N, GND), MOUNT AT 72" A.F.F.

EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	MANUF.	MODEL
1	CART WASHER	STEELECO	LC8012
2	ENDOSCOPE CLEANER	EVOTECH	SP60
3	SINK W/ EYEWASH	-	-
4	3-COMP PROCESSING SINK	MAC MEDICAL	W/ SIDE TOP
5	3-COMP PROCESSING SINK	MAC MEDICAL	-
6	WASHER	STEELECO	DS 1000 15
7	STERILIZER	STERIS	AMSCO CENTURY
8	ULTRASONIC CLEANER	EXISTING	EXISTING

C.D. HAIR ARCHITECT
 2250 Vista Parkway
 West Palm Beach, FL
 15034

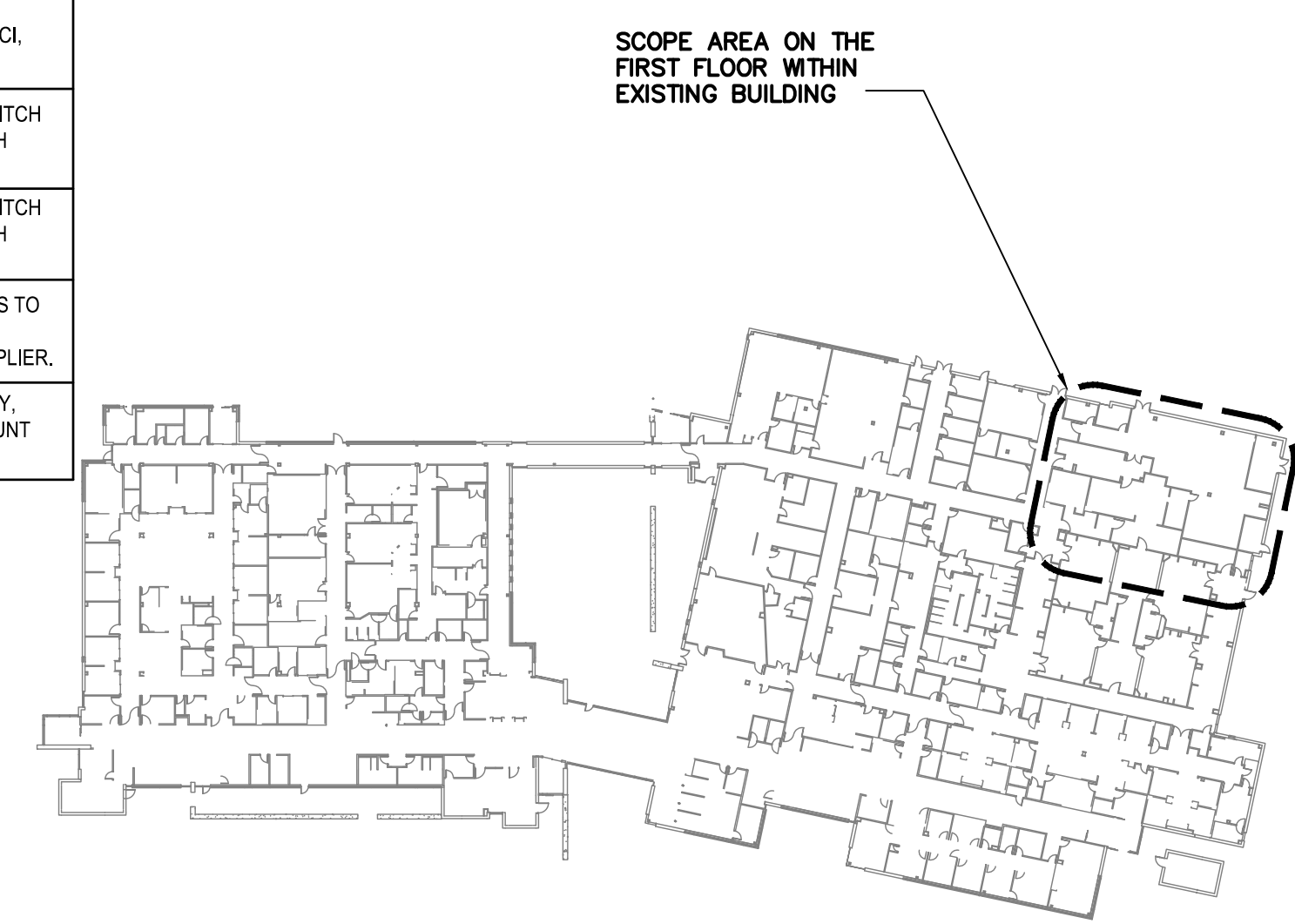
revision:

NORTH CAROLINA PROFESSIONAL SEAL
 048609
 ENGINEER
 ANDREW J. YOUNGROSS

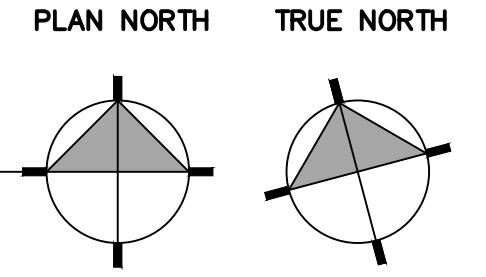
An Interior Renovation for:
Harnett Health Central Sterile Renovation
 215 Brightwater Drive
 Lillington, North Carolina

job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title: **ELECTRICAL PLAN**

4 E



ELECTRICAL PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS

NOTE
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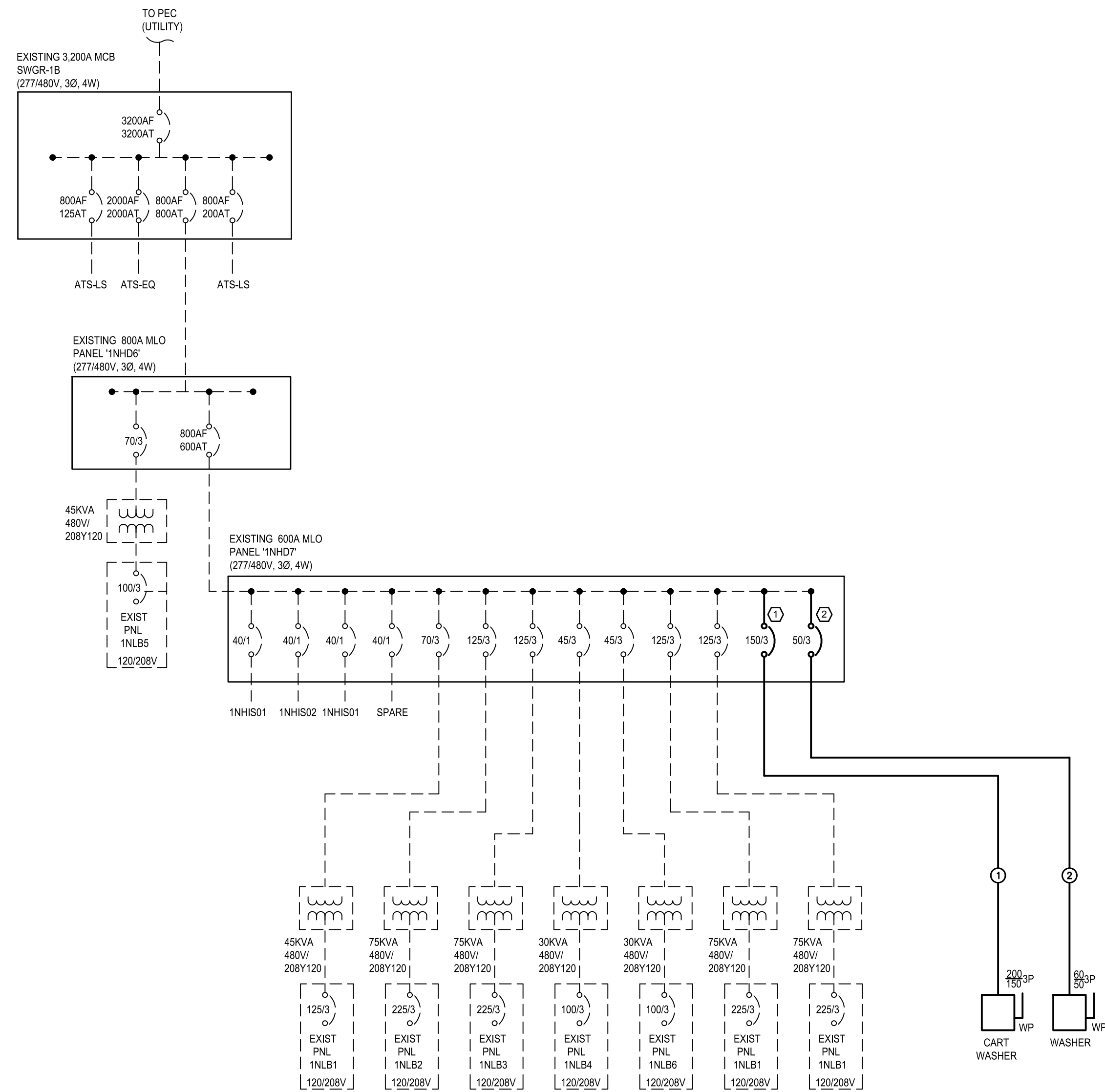
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HVAC
 PLUMBING
 ELECTRICAL

PANEL 1NLB6											
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		NEMA-1					
VOLTAGE (L-L):		208		MOUNTING:		SURFACE					
PHASES, WIRES:		3 Ø 4 W		IAC RATING (A):		10000					
MINIMUM BUS CAPACITY (A):		100 A		NOTES:		EXIST 100A MCB					
MAIN O.C. DEVICE (A):		100 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			TRIP AMPS	DESCRIPTION	CKT NO		
				A	B	C					
1	EX. SYSTEM IE STERILIZER	20	1	1900	360		20	EX. RCPT (STERILIZER 1835)	2		
3	EX. RCPT (SUB-STERILIZER 1715A)	20	1		1000	1920	20	EX. HYDROGEN STERILIZER	4,6,8		
5,7,9	EX. ULTRA SONIC CLEANER	20	3			1190 1920	3	EX. HYDROGEN STERILIZER	4,6,8		
5,7,9	EX. ULTRA SONIC CLEANER	20	3	1190		300	1	EX. HYDROGEN STERILIZER	4,6,8		
11	EX. PREVACUUM CONTROL	20	1			1140 432	3	RO-2 (RO CONTROLLER)	10		
13	EX. WARMER (RM 1719)	20	1	1800		432	3	RO-3 (RO PUMP)	12,14,16		
15	EX. WARMER (RM 1719)	20	1			1800 432	3	RO-3 (RO PUMP)	12,14,16		
17	RECEPT (SUPPLY 1838)	20	1			200 697	2	RO-5 (DISTRIB, PUMP) - GFCI BREAKER	18,20		
19,21,23	*** ITEM #02 (ENDOSCOPE)	30	3	2760		697	2	RO-5 (DISTRIB, PUMP) - GFCI BREAKER	18,20		
19,21,23	*** ITEM #02 (ENDOSCOPE)	30	3			2760 200	2	RO-4 (OI EXCHANGE TANKS)	22		
25	ITEM #02 (ENDOSCOPE PRINTER)	20	1	180		0	2	SPARE	24,26		
27	ITEM #04 & ITEM #05 (3-COMP. SINKS)	20	1			280 200	1	SPARE	24,26		
29	RO-7 (UV ASSEMBLY)	20	1			200 0	2	RO-6 (ALARM PANEL)	28		
31	EF-1 & EF-2 (ROOFTOP)	20	1	360		0	2	SPARE	30,32		
33	ITEM #08 (RELOCATED ULTRASOUND)	20	1			1000 1000	1	AUTOMATIC DOOR OPENER	34		
35	ITEM #07 - (STERILIZER - CONTROLS)	20	1			180 0	1	SPARE	36		
37,39,41	SPARE	100	3	0		720	3	*** ITEM #07 (STERILIZER - VACUUM PUMP)	38,40,42		
37,39,41	SPARE	100	3			0 720	3	*** ITEM #07 (STERILIZER - VACUUM PUMP)	38,40,42		
37,39,41	SPARE	100	3			0 720	3	*** ITEM #07 (STERILIZER - VACUUM PUMP)	38,40,42		
				CONNECTED LOAD PHASE TOTALS (VA)							
				12319	12802	9439					
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)	
				12.5	1.00	12.5				28.3 KVA	
				10.0	1.00	10.0				7.7 KVA	
				11.7	0.50	5.9				21.3 AMPS	
				PHASE BALANCE			A TO B		96%		
							B TO C		74%		
							C TO A		77%		
				TOTAL LOAD (AMPS):			34.2		28.3		
							94.9		78.7		
*** - FURNISH & INSTALL NEW CIRCUIT BREAKER											

PANEL 1NH07											
VOLTAGE (L-N):		277		ENCLOSURE TYPE:		NEMA-1					
VOLTAGE (L-L):		480		MOUNTING:		SURFACE					
PHASES, WIRES:		3 Ø 4 W		IAC RATING (A):		18000					
MINIMUM BUS CAPACITY (A):		600 A		NOTES:		EXIST 600A MCB					
MAIN O.C. DEVICE (A):		600 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			TRIP AMPS	DESCRIPTION	CKT NO		
				A	B	C					
1,3,5	EXIST PNL '1NLB1'	70	3	9229	15219		3	EXIST PNL '2NLB1'	2,4,6		
1,3,5	EXIST PNL '1NLB1'	70	3		7219	14396	3	EXIST PNL '2NLB1'	2,4,6		
1,3,5	EXIST PNL '1NLB1'	70	3			7510 13687	3	EXIST PNL '2NLB1'	2,4,6		
7,9,11	EXIST PNL '1NLB2'	125	3	13463	19418		3	EXIST PNL '2NLB2'	8,10,12		
7,9,11	EXIST PNL '1NLB2'	125	3			14761 16499	3	EXIST PNL '2NLB2'	8,10,12		
7,9,11	EXIST PNL '1NLB2'	125	3			14831 16260	3	EXIST PNL '2NLB2'	8,10,12		
13,15,17	EXIST PNL '1NLB3'	125	3	19499	2289		1	EXIST 1NH01	14		
13,15,17	EXIST PNL '1NLB3'	125	3			20089 2289	1	EXIST 1NH02	16		
13,15,17	EXIST PNL '1NLB3'	125	3			18467 2289	1	EXIST 1NH03	18		
19,21,23	EXIST PNL '1NLB4'	45	3	6693	27166		3	*** (ITEM #01 - CART WASHER)	20,22,24		
19,21,23	EXIST PNL '1NLB4'	45	3			4934 27167	3	*** (ITEM #01 - CART WASHER)	20,22,24		
19,21,23	EXIST PNL '1NLB4'	45	3			4784 27167	3	*** (ITEM #01 - CART WASHER)	20,22,24		
25,27,29	SPARE	125	3	0	11333		3	*** (ITEM #06 - WASHER)	26,28,30		
25,27,29	SPARE	125	3			0 11333	3	*** (ITEM #06 - WASHER)	26,28,30		
25,27,29	SPARE	125	3			0 11334	3	*** (ITEM #06 - WASHER)	26,28,30		
31,33,35	PANEL 1NLB6 via Transformer	100	3	12319	0		1	40 SPARE	32		
31,33,35	PANEL 1NLB6 via Transformer	100	3			12802 0	1	20 SPACE	34		
31,33,35	PANEL 1NLB6 via Transformer	100	3			0 9439	1	20 SPACE	36		
37,39,41	EXIST TRASH COMPACTOR	35	3	3878	0		1	20 SPACE	38		
37,39,41	EXIST TRASH COMPACTOR	35	3			3878 0	1	20 SPACE	40		
37,39,41	EXIST TRASH COMPACTOR	35	3			0 3878	1	20 SPACE	42		
				CONNECTED LOAD PHASE TOTALS (VA)							
				140506	135367	129666					
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)	
				383.5	1.00	383.5				399.3 KVA	
				10.0	1.00	10.0				99.5 KVA	
				11.7	0.50	5.9				119.7 AMPS	
				PHASE BALANCE			A TO B		96%		
							B TO C		96%		
							C TO A		92%		
				TOTAL LOAD (AMPS):			405.2		399.3		
							487.4		480.3		
*** - FURNISH & INSTALL NEW CIRCUIT BREAKER											

PANEL 1NH06											
VOLTAGE (L-N):		277		ENCLOSURE TYPE:		NEMA-1					
VOLTAGE (L-L):		480		MOUNTING:		SURFACE					
PHASES, WIRES:		3 Ø 4 W		IAC RATING (A):		18000					
MINIMUM BUS CAPACITY (A):		800 A		NOTES:		EXIST 800A MLO					
MAIN O.C. DEVICE (A):		800 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			TRIP AMPS	DESCRIPTION	CKT NO		
				A	B	C					
1,3,5	EXIST PANEL '1NLB5'	70	3	7989	0		1	20 SPACE	2		
1,3,5	EXIST PANEL '1NLB5'	70	3		7574	0	1	20 SPACE	4		
1,3,5	EXIST PANEL '1NLB5'	70	3			650 0	1	20 SPACE	6		
7,9,11	EXIST PANEL '1NH07'	600	3	140506	0		3	EXIST PNL '2NLB2'	8,10,12		
7,9,11	EXIST PANEL '1NH07'	600	3			135367 0	3	EXIST PNL '2NLB2'	8,10,12		
7,9,11	EXIST PANEL '1NH07'	600	3			129666 0	3	EXIST PNL '2NLB2'	8,10,12		
13,15,17	SPARE	250	3	0	0		1	20 SPACE	14		
13,15,17	SPARE	250	3			0 0	1	20 SPACE	16		
13,15,17	SPARE	250	3			0 0	1	20 SPACE	18		
19	SPACE	20	1	0	0		1	20 SPACE	20		
21	SPACE	20	1			0 0	1	20 SPACE	22		
23	SPACE	20	1			0 0	1	20 SPACE	24		
25	SPACE	20	1			0 0	1	20 SPACE	26		
27	SPACE	20	1			0 0	1	20 SPACE	28		
29	SPACE	20	1			0 0	1	20 SPACE	30		
31	SPACE	20	1			0 0	1	20 SPACE	32		
33	SPACE	20	1			0 0	1	20 SPACE	34		
35	SPACE	20	1			0 0	1	20 SPACE	36		
37	SPACE	20	1			0 0	1	20 SPACE	38		
39	SPACE	20	1			0 0	1	20 SPACE	40		
41	SPACE	20	1			0 0	1	20 SPACE	42		
				CONNECTED LOAD PHASE TOTALS (VA)							
				148495	142941	130316					
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)	
				399.7	1.00	399.7				415.5 KVA	
				10.0	1.00	10.0				300.2 AMPS	
				11.7	0.50	5.9				36%	
				PHASE BALANCE			A TO B		96%		
							B TO C		91%		
							C TO A		88%		
				TOTAL LOAD (AMPS):			421.4		415.5		
							506.9		499.8		



1 ELECTRICAL RISER DIAGRAM

N.T.S.

- KEY NOTES - RISER DIAGRAM**
- 1 FURNISH AND INSTALL 150A-3P (480V) CIRCUIT BREAKER (18KAIC).
 - 2 FURNISH AND INSTALL 50A-3P (480V) CIRCUIT BREAKER (18KAIC).
- WIRE SCHEDULE KEY NOTE**
- 1 3#1/0 CU & 1#1/0 GRD CU IN 1-1/2" CONDUIT.
 - 2 3#6 CU & 1#6 GRD IN 1" CONDUIT.

BREAKER SIZE	WIRE SIZE	GND SIZE	COND SIZE
20A	#12	#12	3/4"
30A	#10	#10	3/4"
40A	#8	#10	3/4"
50A	#8	#10	3/4"
60A	#6	#10	1"
70A	#6	#8	1"
80A	#4	#8	1-1/4"
90A	#3	#8	1-1/2"

LINE TYPE LEGEND

--- DENOTES - EXISTING TO REMAIN

— DENOTES - PROVIDE NEW

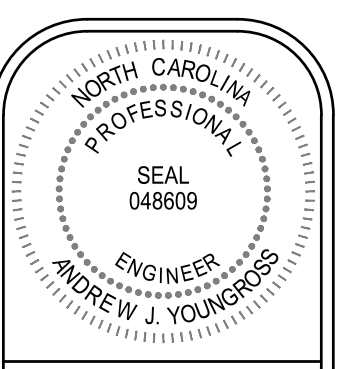
NOTE

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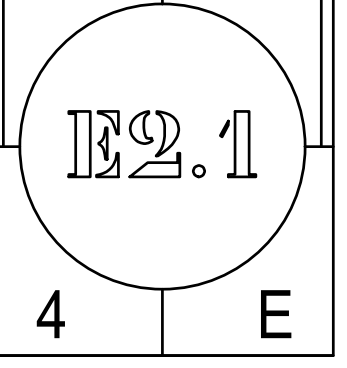


An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brightwater Drive
Lillington, North Carolina

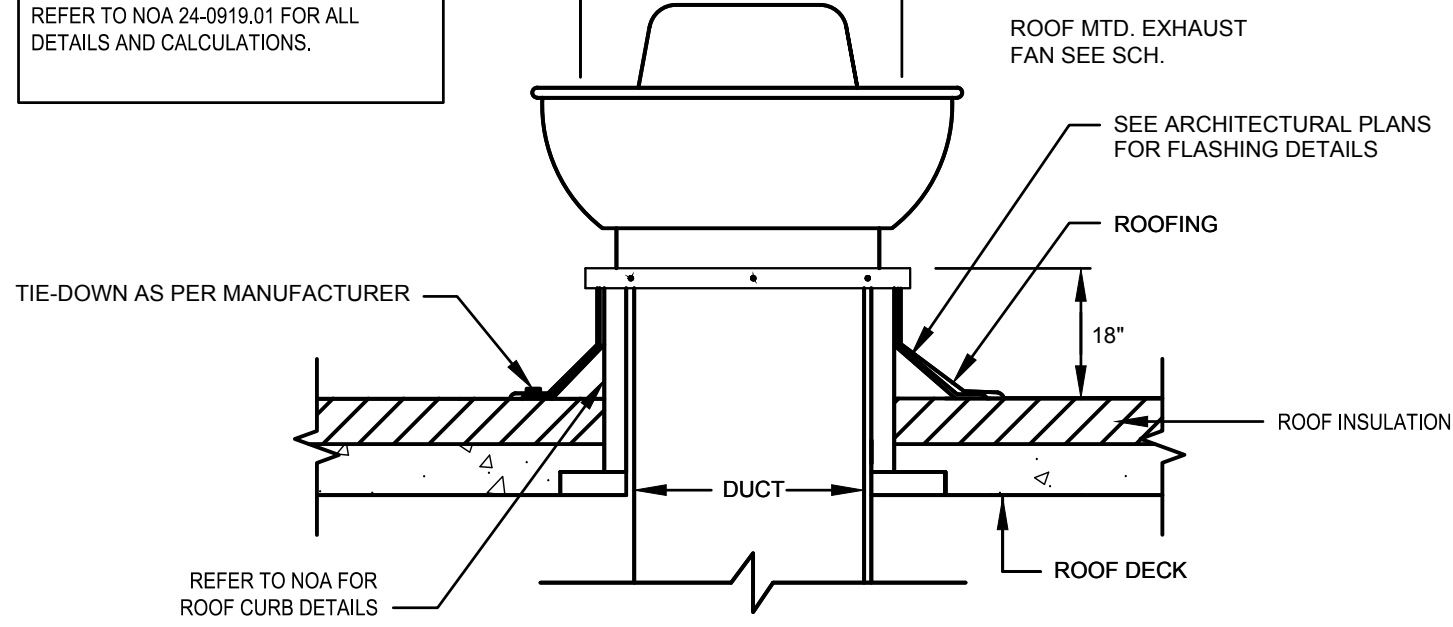
job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:

date: 09.26.25
title:

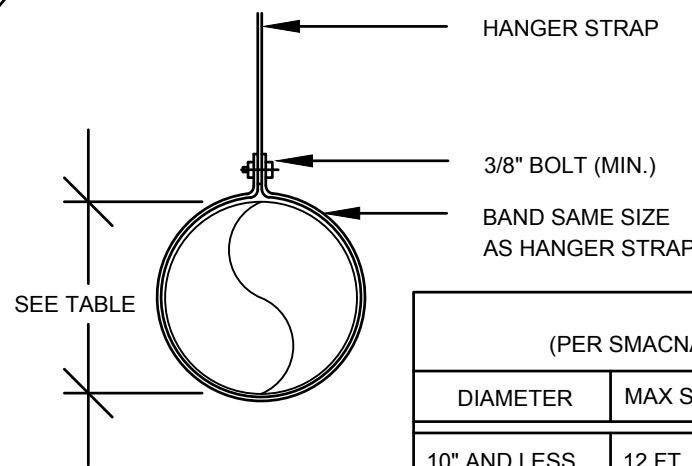
ELECTRICAL RISER & PANEL SCHEDULES



NOTE:
ALL ATTACHMENTS SHALL BE COMPLIANT TO 2024 NCMC AND ASCE 7-10.
REFER TO NOA 24-0919.01 FOR ALL DETAILS AND CALCULATIONS.



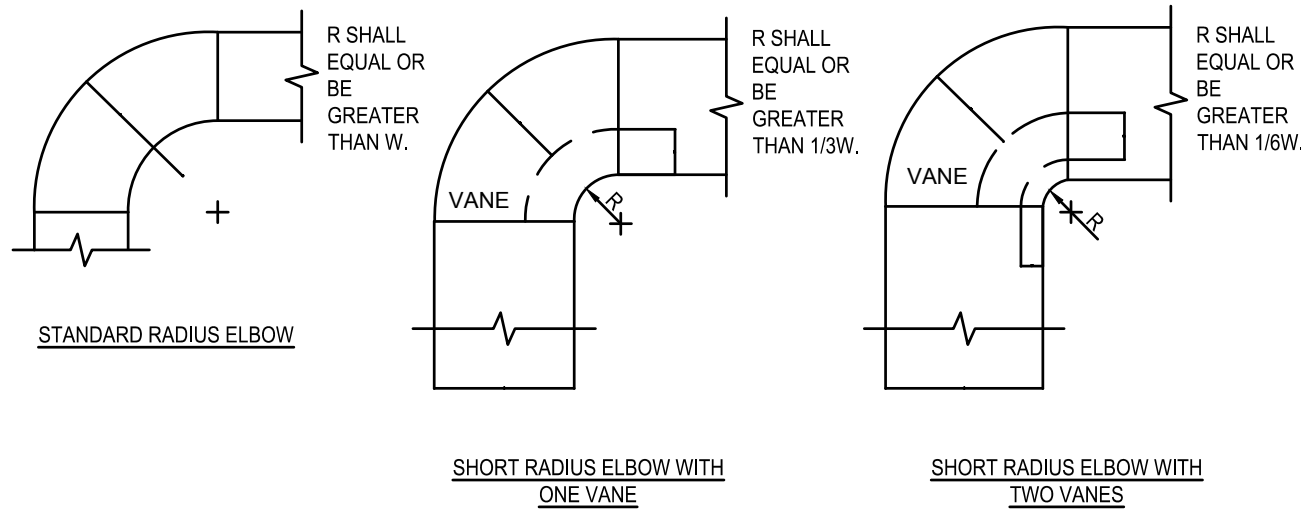
EXHAUST FAN DETAIL ROOFTOP MOUNTED
N.T.S



HANGER SIZES FOR ROUND DUCTS (PER SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS)				
DIAMETER	MAX SPACING	WIRE DIAMETER	ROD	STRAP
10" AND LESS	12 FT	ONE 12 GA.	1/4"	1" X 22 GA
11"-18"	12 FT	TWO 12 GA OR ONE 8 GA.	1/4"	1" X 22 GA
19"-24"	12 FT	TWO 10 GA.	1/4"	1" X 22 GA
25"-36"	12 FT	TWO 8 GA.	3/8"	1" X 20 GA
37"-50"	12 FT		TWO 3/8"	TWO 1" X 20 GA.
51"-60"	12 FT		TWO 3/8"	TWO 1" X 18 GA.
61"-84"	12 FT		TWO 3/8"	TWO 1" X 16 GA.
85"-96"	12 FT		TWO 1/2"	TWO 1-1/2" X 16 GA.

NOTES:
- STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL.
- WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATES.
- TABLES ALLOW FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB/SQ.FT. INSULATION WEIGHT.
- IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

METAL ROUND DUCT HANGER DETAIL
N.T.S.



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

TYPICAL RADIUS ELBOW DETAIL
N.T.S

FAN SCHEDULE		
UNIT DESIGNATION	EF-1	EF-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL	CUE-090-VG	CUE-080-VG
TYPE	UPBLAST ROOF	UPBLAST ROOF
AREA SERVED	CART WASHER	WASHER
CONSTRUCTION	ALUMINUM HOUSING	ALUMINUM HOUSING
DIMENSIONS		
WIDTH (IN.)	210	210
LENGTH (IN.)	210	210
HEIGHT (IN.)	13.375	13.375
OUTLET (IN.)	19x19	19x19
WEIGHT (LB)	30	21
CONDITION OF SERVICE		
CFM	400	200
E.S.P. (IN. W.G.)	0.5	0.5
RPM (MAX)	1,925	1,725
SONES	9	7.6
FAN MOTOR		
DRIVE	DIRECT	DIRECT
HP (AMPS OR WATTS)	0.12 HP	0.07 HP
VOLTAGE/PHASE	115/1/0	115/1/0
CYCLE (HZ)	60	60
MOTOR SPEEDS	VARIABLE	VARIABLE
TYPE OF MOTOR	VARI-GREEN	VARI-GREEN
SPECIAL FEATURES		
BIRD SCREEN	-	-
MATERIAL (A/FIBR./GL./STEEL)	AI	AI
BACKDRAFT DAMPER	YES	YES
BUILT IN DISCONNECT	YES	YES
FAN CONTROL		
CONTINUOUS	NO	NO
OCCUPANCY SENSOR	-	-
WALL TIMER SWITCH	-	-
WALL TOGGLE SWITCH	-	-
TEMPERATURE	-	-
OTHER (SEE NOTES)	-	-
NOTES	1	2

NOTES:
1. FAN TO BE INTERLOCKED WITH CART WASHER OPERATION.
2. FAN TO BE INTERLOCKED WITH WASHER OPERATION.
3. PROVIDE AND INSTALL PREFABRICATED ROOF CURB CLEAR HEIGHT FROM TOP OF CURB AND FINISHED ROOF TO BE 18 INCHES. INTERIOR OF CURB SHALL BE INSULATED AS PER ROOF INSULATION SPECS. COORDINATE EXACT LOCATION OF CURB AND ROOF OPENING WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
C.F.M.	CUBIC FEET PER MINUTE
FD (E)	EXISTING FIRE DAMPER W/ ACCESS PANEL
FSD (E)	EXISTING FIRE SMOKE DAMPER W/ ACCESS PANEL
A	A = DIFFUSER TYPE, CFM = DIFFUSER AIR FLOW
[Symbol]	DUCTWORK - SEE SPECS
[Symbol]	EXISTING DUCTWORK - TO REMAIN
[Symbol]	EXISTING SUPPLY DIFFUSER
[Symbol]	EXISTING EXHAUST DIFFUSER

HVAC DESIGN REQUIREMENTS		
	YES	NO
DUCT SMOKE DETECTOR		✓
FIRE DAMPERS	✓	
SMOKE DAMPER(S)	✓	
FIRE RATED ENCLOSURE		✓
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		✓
FIRE STOPPING		✓
SMOKE CONTROL		✓

GENERAL DUCTWORK NOTES	
1.	ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
2.	DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND DETAILS ON THESE PLANS.
3.	ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS WITH EXTRACTOR FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE WITH NCMC - 2024 SEC. 603.18 AND NCMC - 2024 SEC. 601.5 FOR BALANCED RETURN TRANSFER AIR FLOW. REMOTE CABLE OPERATED DAMPERS SHALL BE PROVIDED IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR OR EQUAL".
4.	ALL DAMPER CONTROLS SHALL BE ACCESSIBLE.
5.	ALL OUTSIDE AIR DUCTS OR INTAKES SHALL HAVE DAMPERS.
6.	ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, SLABS AND CEILINGS SHALL BE WITH AN ACCESSIBLE U.L. LABELED FIRE DAMPER OR WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S LISTED DETAILS AND SPECS.
7.	ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE. SQUARE ELBOWS AND TEES SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
8.	ALL OUTSIDE AIR DUCTS OR INTAKES SHALL HAVE DAMPERS. BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTSIDE AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARMUP, COOLDOWN, AND SETBACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (E.G. NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS. MOTORIZED DAMPERS SHALL BE NOT LESS THAN A CLASS I LEAKAGE-RATED DAMPER WITH A MAXIMUM LEAKAGE RATE OF 4 CFM PER S.F. AT 1" W.G. WHEN TESTED IN ACCORDANCE WITH AMCA 500D.
9.	SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS, WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR ITS PRESSURE CLASS SEALING METHODS.
10.	ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 2550.

DUCTWORK SPECIFICATIONS

1. ALL EXHAUST DUCTWORK SHALL BE 16 GAGE STAINLESS STEEL OR 16 GAGE GALVANIZED STEEL LIQUID TIGHT WELDED. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

AIR DISTRIBUTION SCHEDULE

TYPE	MFG	MODEL	PATTERN	DAMPER	MOUNTING	NECK	MODULE	MAX N.C.	MAX CFM	NOTES
A1	SEE NOTE 2	SEE NOTE 2	SUPPLY	O.B.D.	SURFACE	SEE PLANS	24x24	25	-	2
E1	SEE NOTE 2	SEE NOTE 2	EXHAUST	O.B.D.	SURFACE	SEE PLANS	24x24	25	-	2
EX1	EXISTING	EXISTING	SUPPLY	EXISTING	SURFACE	EXISTING	24x24	25	-	1
EX2	EXISTING	EXISTING	EXHAUST	EXISTING	EXISTING	EXISTING	25	-	-	1

NOTES:
1) EXISTING DIFFUSER TO REMAIN.
2) NEW DIFFUSER TO MATCH EXISTING SPEC.

BUILDING ENVELOPE

TYPE	DESCRIPTION	R-VALUE (ADDED VALUE)	SUMMER U-VALUE (ASSEMBLY)	SHADING COEFFICIENT	SOLAR HEAT GAIN COEFFICIENT
ROOF	N/A	N/A	N/A		
WALL	N/A	N/A	N/A		
GROUND SLAB	EXISTING	-	0.100		
GLASS WINDOWS				N/A	N/A
GLASS DOORS				N/A	N/A

NOTES:
THE VALUES SHOWN ABOVE ARE AS PER SPECIFICATIONS GIVEN BY ARCHITECT AND WERE USED TO SIZE THE HVAC EQUIPMENT AND INPUTTED INTO THE ENERGY CALCULATIONS FOR CODE COMPLIANCE UNDER THE PERFORMANCE BASIS METHOD. THE INFORMATION PROVIDED HERE ARE BY NO MEANS TO BE USED AS A SPECIFICATION OF THE BUILDING ENVELOPE. CONSULT ARCHITECTURAL PLANS FOR SUCH. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF OWNER, ARCHITECT, AND ENGINEER.

**VENTILATION CALCULATIONS PROPOSED:
AS PER TABLE 7-1, DESIGN PARAMETERS FROM ANSI/ASHRAE/ASHE STANDARD 170-2021**

	ROOM #	SPACE DESIGNATION	AREA:	CEIL HEIGHT:	VOLUME:	PRESSURE RELATIONSHIP TO ADJACENT AREA	MINIMUM SUPPLY FLOW:	SUPPLY AIR FLOW PROVIDED:	MINIMUM TOTAL AIR CHANGES PER HOUR	PROVIDED TOTAL AIR CHANGES PER HOUR	ACCEPTABLE	MINIMUM OUTSIDE AIR	PROVIDED OUTSIDE AIR	MINIMUM OUTSIDE AIR	PROVIDED OUTSIDE AIR	ALL ROOM AIR EXHAUSTED DIRECTLY OUTDOORS
			(SF)	(FT)	(CF)	(CFM)	(CFM)	(ACH)	(ACH)	(YES/NO)	(ACH)	(ACH)	(CFM)	(CFM)		
VAV 2-19	1833	DECONTAMINATION	329	9	2961	NEGATIVE	296	295	6	6	YES	2	2	EXISTING	EXISTING	YES
	TOTAL		329		2961			295								
VAV 2-22	1831	CART CASE	213	9	1917	NEGATIVE	192	240	6	8	YES	2	2	EXISTING	EXISTING	YES
	TOTAL		213		0			240								

MECHANICAL DRAWING LIST

DRAWING NUMBER	DRAWING NAME
M01	MECHANICAL NOTES, LEGEND AND SCHEDULES
M10	MECHANICAL PLAN - DEMOLITION
M11	MECHANICAL PLAN
M21	AIR BALANCE SUMMARY - EXISTING AND PROPOSED

NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

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C.D. HAIR ARCHITECT
2520 Vesta Parkway
West Palm Beach, FL
15034

revision:

NORTH CAROLINA PROFESSIONAL SEAL 048609
ENGINEER ANDREW J. YOUNGROSS

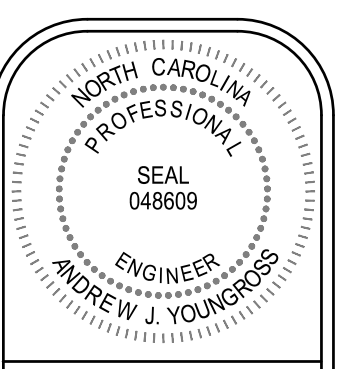
An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brightwater Drive
Lillington, North Carolina

job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:

date: 09.26.25
title:
MIRCHANICAL NOTES, LEGEND, AND SCHEDULES

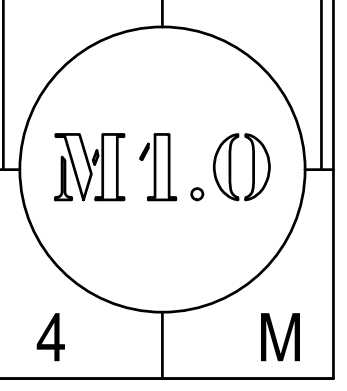
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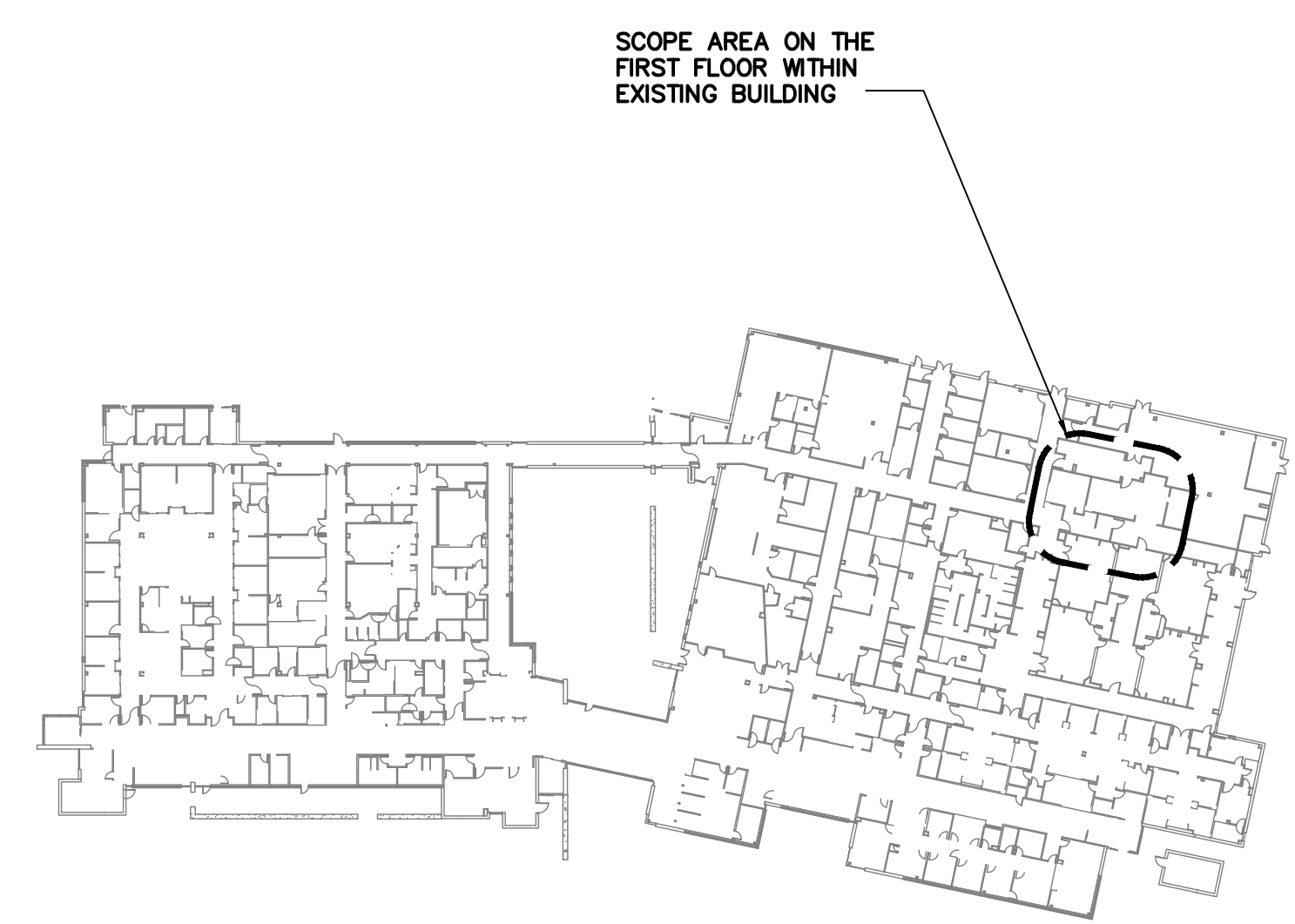
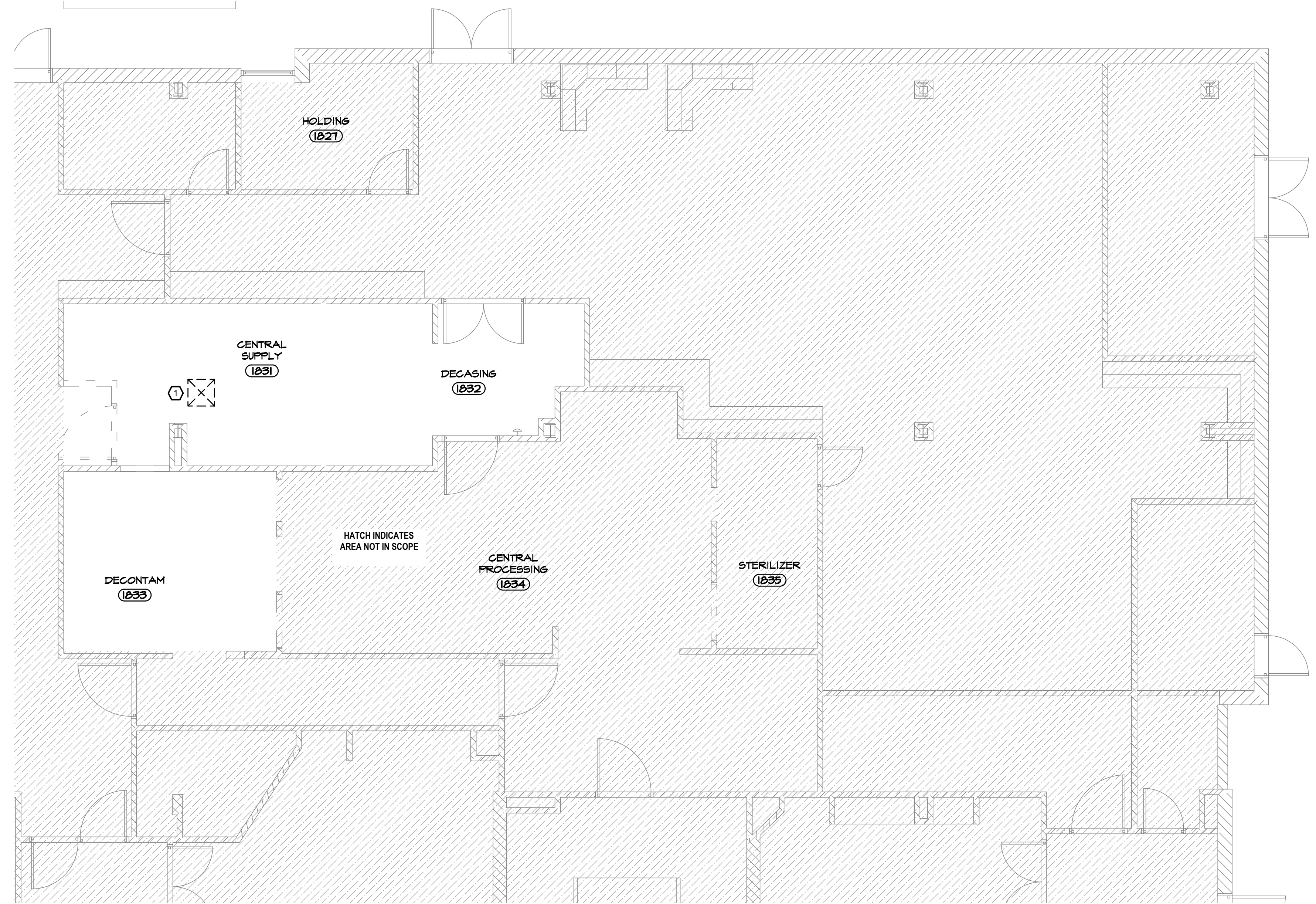


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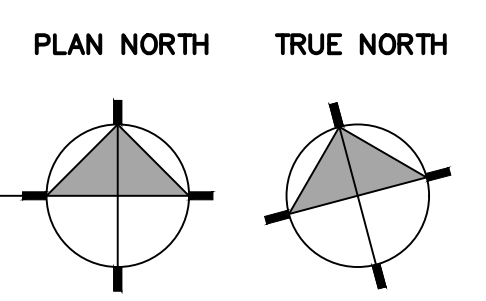
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 designer: RR/HL/KS
 file name:
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MIRCHANCAL
PLAN -
DEMOLITION



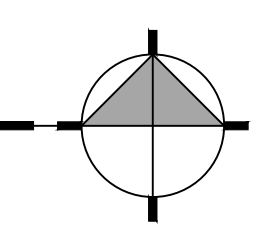
GENERAL NOTES	
EXISTING DUCTWORK AND DIFFUSER LAYOUT IS BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER DATED DECEMBER 03, 2010.	
PLAN KEY NOTES	
	EXISTING SUPPLY DIFFUSER TO BE REMOVED.



MECHANICAL PLAN - DEMOLITION
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS

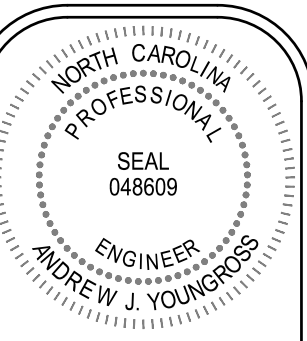


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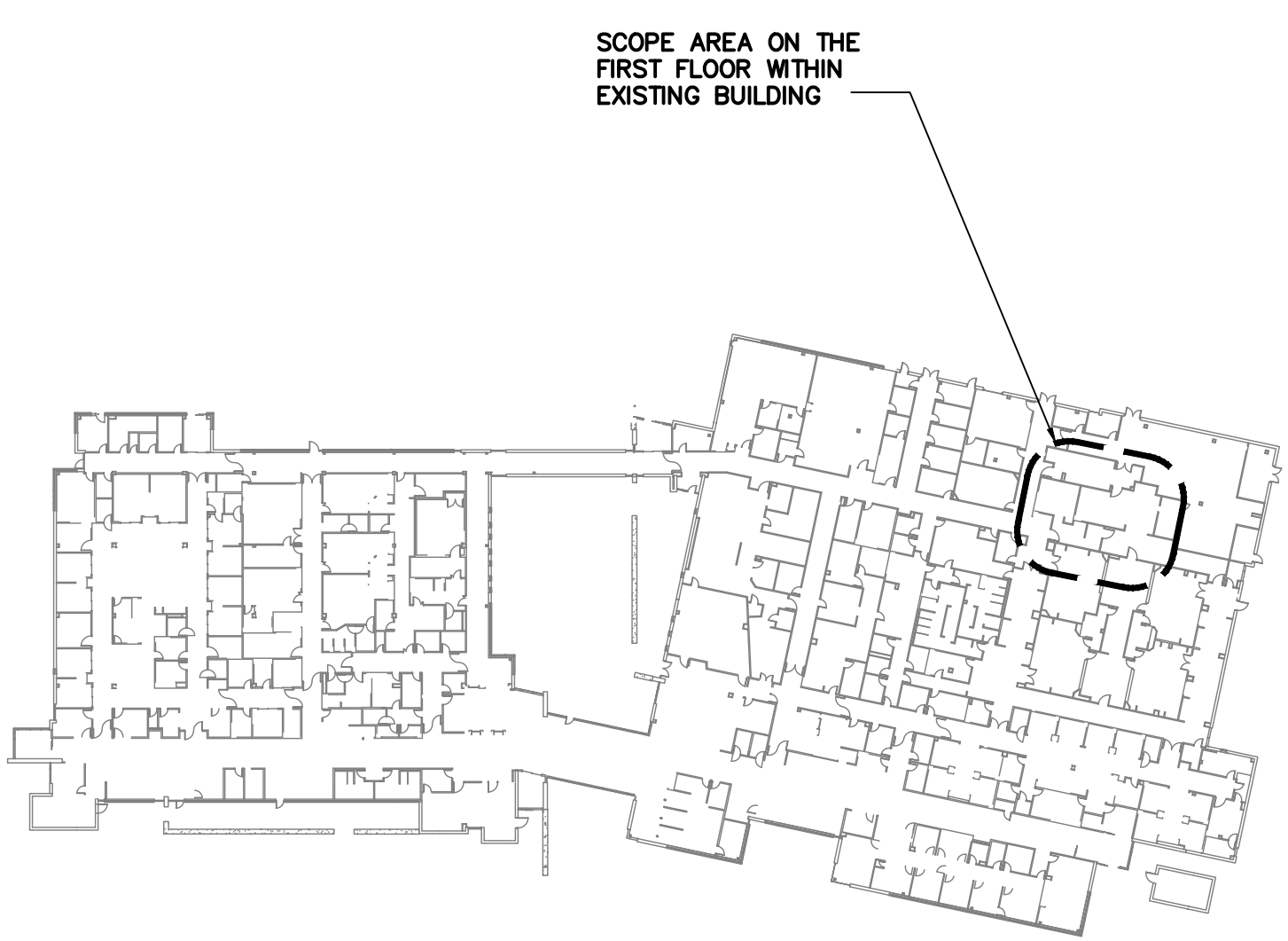
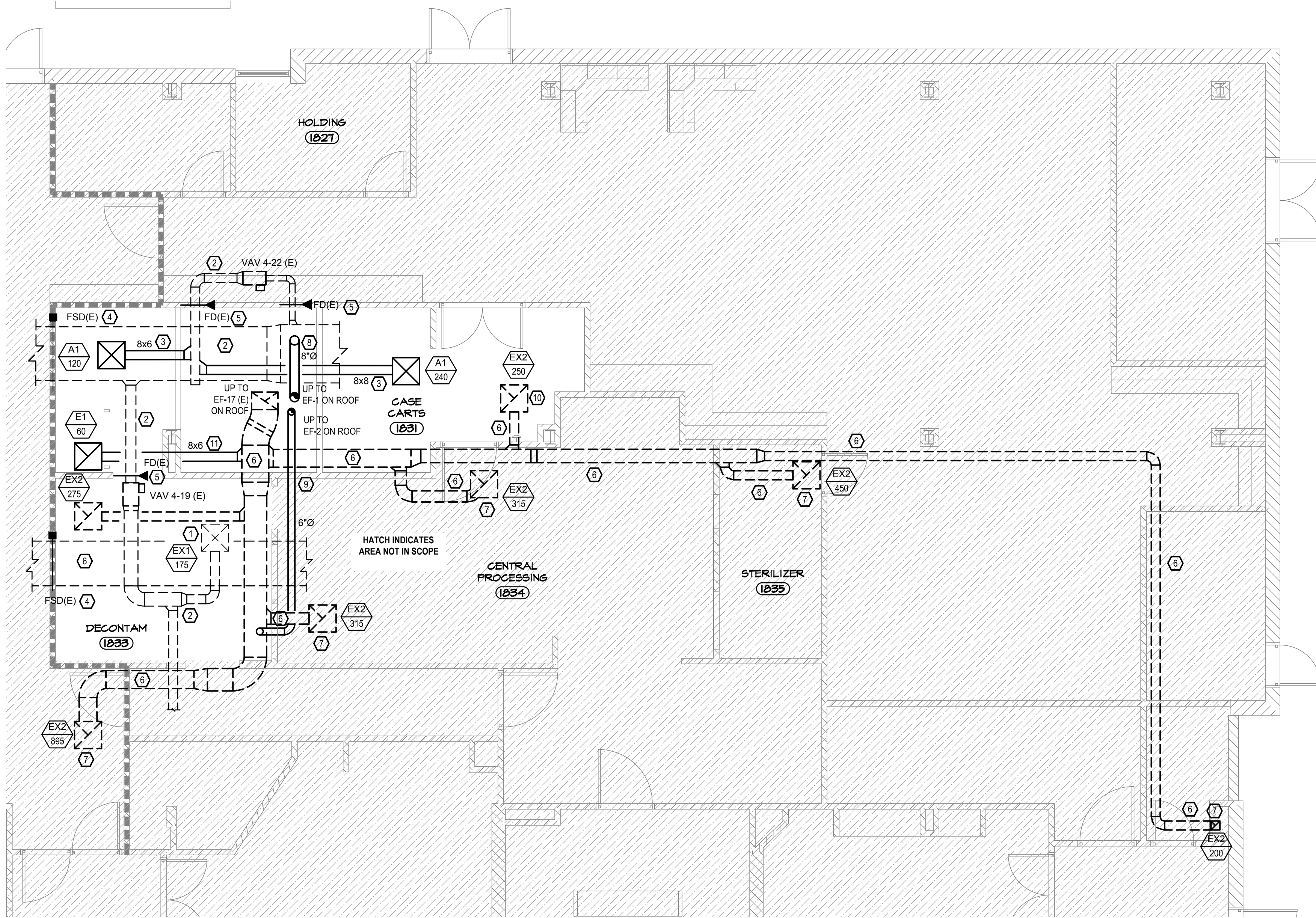
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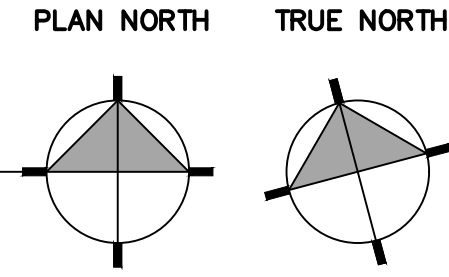
An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brightwater Drive
 Lillington, North Carolina

job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title: **MECHANICAL PLAN**

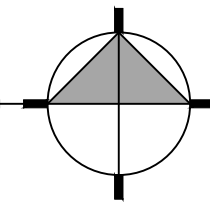
GENERAL NOTES	
A.	IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTORS TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.
B.	VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, ROOF TRUSSES, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.
C.	SEE ARCHITECTURAL DRAWINGS FOR CEILING ELEVATIONS AND FIXTURE LOCATIONS.
D.	EXISTING DUCTWORK LAYOUT AND DIFFUSER VALUES ARE BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER. NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES BETWEEN THE EXISTING SUPPLY AND EXHAUST DIFFUSER VALUES AND THE ACTUAL SUPPLY AND EXHAUST DIFFUSER VALUES BASED ON THE FINAL TEST AND BALANCE THAT IS TO BE PERFORMED BY CONTRACTOR.
E.	MECHANICAL ENGINEER SCOPE OF WORK WAS TO ADD EXHAUST DUCTWORK AND ROOFTOP EXHAUST FANS TO ACCOMMODATE FOR THE CART WASHER AND ADDITIONAL WASHER.
PLAN KEY NOTES	
①	EXISTING SUPPLY DIFFUSER TO REMAIN AS IS.
②	EXISTING SUPPLY DUCTWORK REMAIN AS IS.
③	CONTRACTOR TO PROVIDE NEW SUPPLY DUCTWORK AND CONNECT TO EXISTING SUPPLY DUCTWORK. DUCTWORK TO MATCH EXISTING SPECIFICATIONS. NEW SUPPLY DIFFUSER TO BE PROVIDED. CONTRACTOR TO COORDINATE FINAL LOCATION IN THE FIELD.
④	EXISTING FSD TO REMAIN AS IS.
⑤	EXISTING FD TO REMAIN AS IS.
⑥	EXISTING DUCTWORK TO REMAIN AS IS.
⑦	EXISTING EXHAUST DIFFUSER REMAIN AS IS.
⑧	8"Ø EXHAUST DUCT FOR CART WASH TO BE ROUTED TO EF-1 ON ROOF. EXHAUST DUCT WORK TO BE WELDED STAINLESS STEEL. CONTRACTOR TO COORDINATE EXACT ROUTING IN THE FIELD. ROOF MOUNTED EXHAUST FAN TO BE AS PER SCHEDULE ON M0.1. ROOF MOUNTED EXHAUST FAN TO BE INSTALLED ON 18" ROOF CURB AT LEAST 10 FT AWAY FROM ANY OUTSIDE AIR INTAKE. CONTRACTOR TO COORDINATE EXACT LOCATION IN THE FIELD. INTERLOCK FAN OPERATION WITH WASHER OPERATION AND COORDINATE TIE IN POINT WITH WASHER EQUIPMENT SUPPLIER.
⑨	8"Ø EXHAUST DUCT FOR WASHER TO BE ROUTED TO EF-2 ON ROOF. EXHAUST DUCT WORK TO BE WELDED STAINLESS STEEL. CONTRACTOR TO COORDINATE EXACT ROUTING IN THE FIELD. ROOF MOUNTED EXHAUST FAN TO BE AS PER SCHEDULE ON M0.1. ROOF MOUNTED EXHAUST FAN TO BE INSTALLED ON 18" ROOF CURB AT LEAST 10 FT AWAY FROM ANY OUTSIDE AIR INTAKE. CONTRACTOR TO COORDINATE EXACT LOCATION IN THE FIELD. INTERLOCK FAN OPERATION WITH WASHER OPERATION AND COORDINATE TIE IN POINT WITH WASHER EQUIPMENT SUPPLIER.
⑩	EXISTING EXHAUST DIFFUSER TO BE REBALANCED AS INDICATED.
⑪	CONTRACTOR TO PROVIDE NEW 8"Ø EXHAUST DUCTWORK AND CONNECT TO EXISTING EXHAUST DUCTWORK. CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW EXHAUST DIFFUSER IN THE FIELD.



MECHANICAL PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS

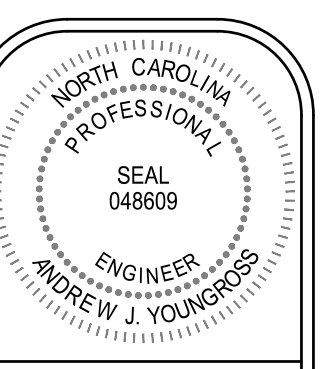


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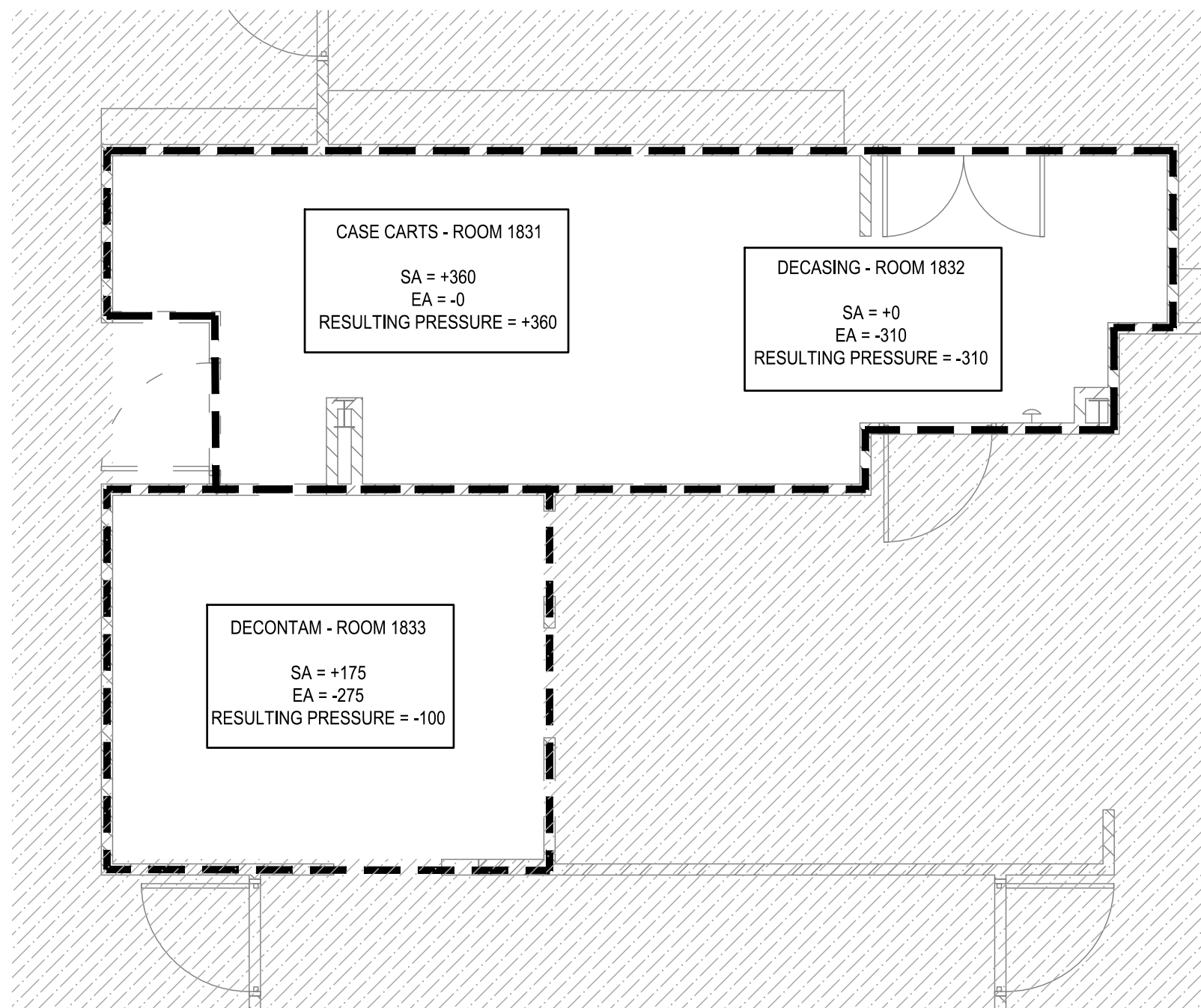
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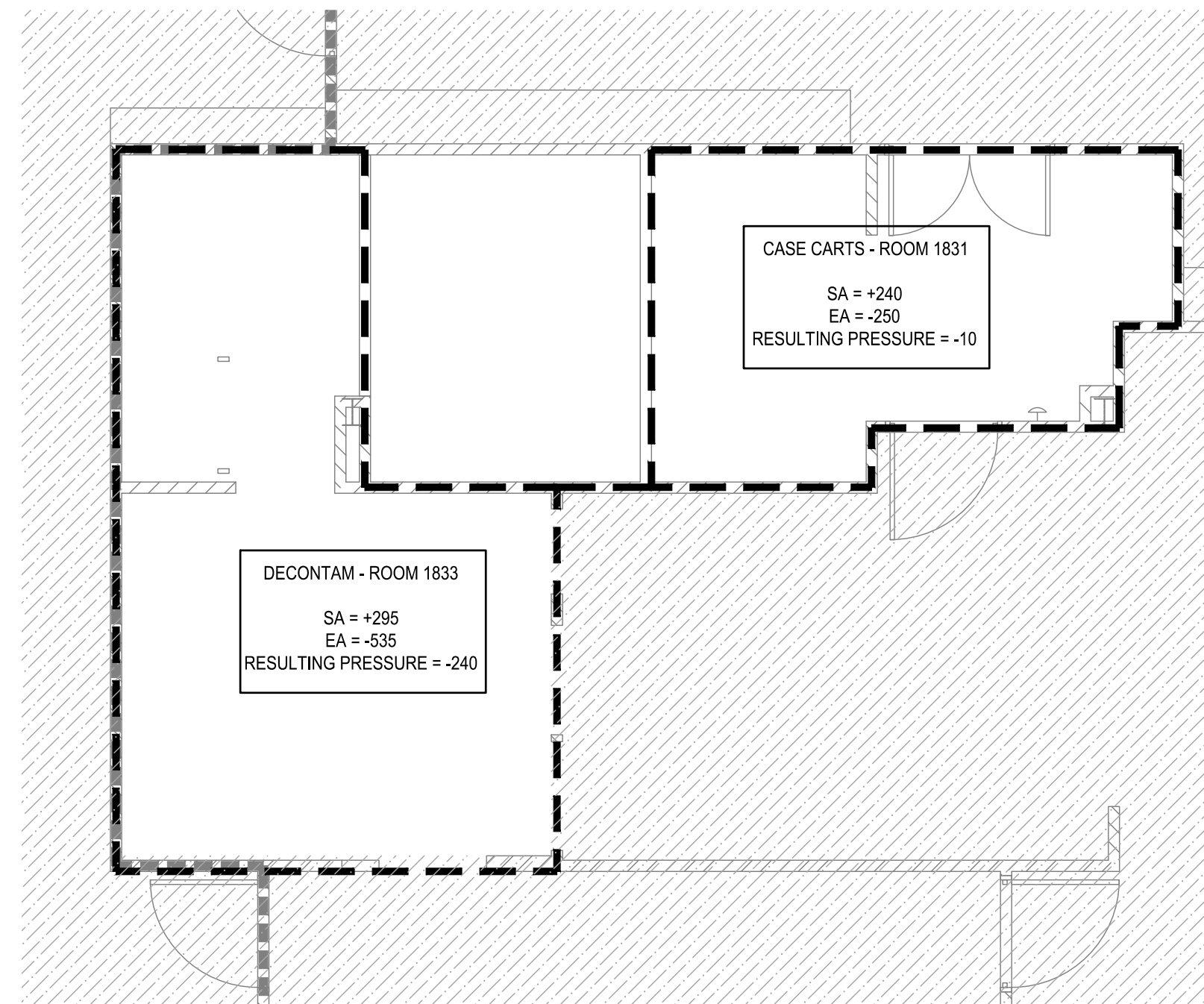
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job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title: **AIR BALANCE
 SUMMARY -
 EXISTING AND
 PROPOSED**



AIR BALANCE SUMMARY - EXISTING
 3/16"=1'-0"

PLAN NORTH TRUE NORTH

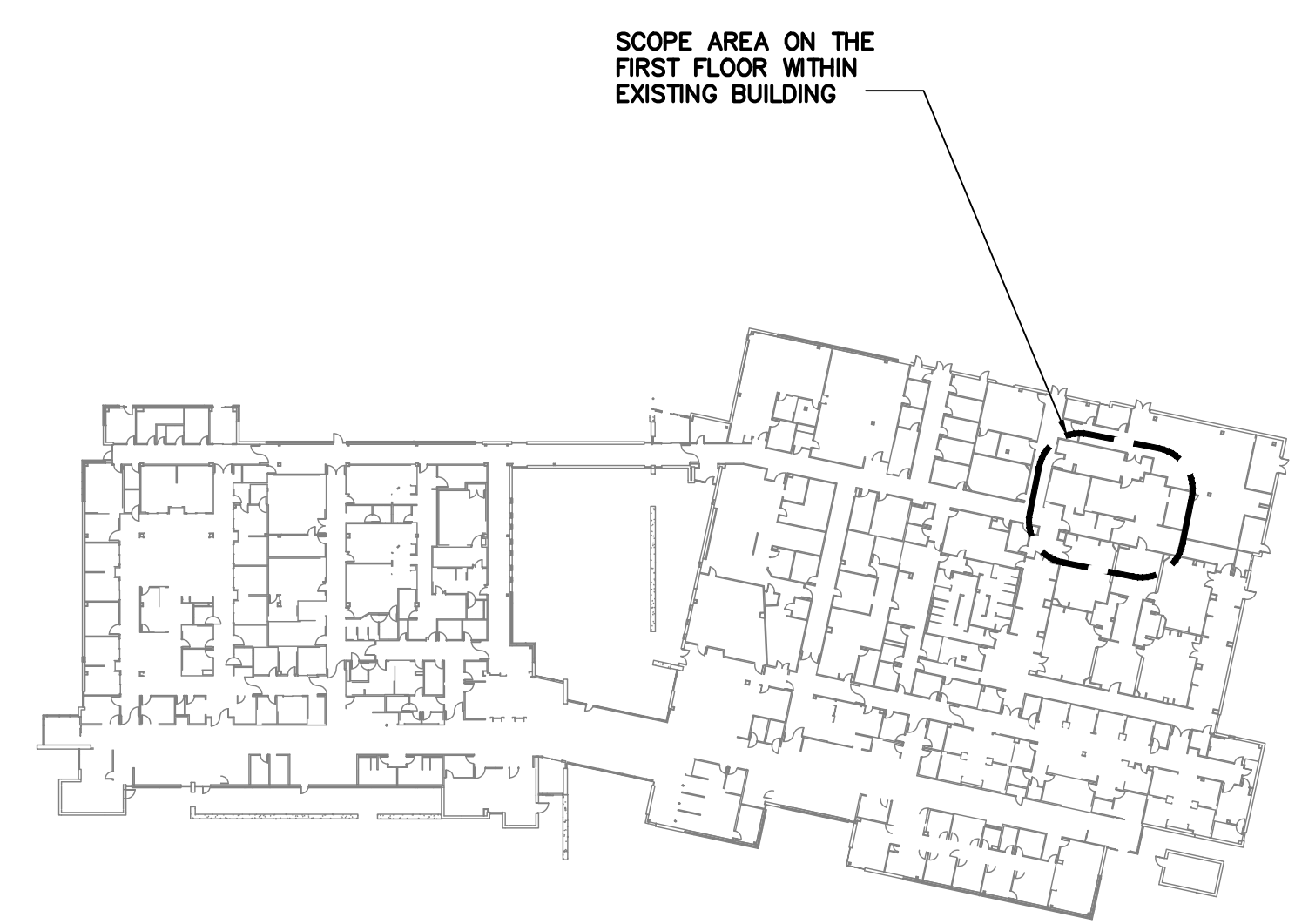


AIR BALANCE SUMMARY - PROPOSED
 3/16"=1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

EXISTING DIFFUSER VALUES ARE BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER DATED DECEMBER 03, 2010. NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES BETWEEN THE EXISTING SUPPLY AND EXHAUST DIFFUSER VALUES AND THE ACTUAL SUPPLY AND EXHAUST DIFFUSER VALUES BASED ON THE FINAL TEST AND BALANCE THAT IS TO BE PERFORMED BY CONTRACTOR.



OVERALL FIRST FLOOR PLAN
 NTS

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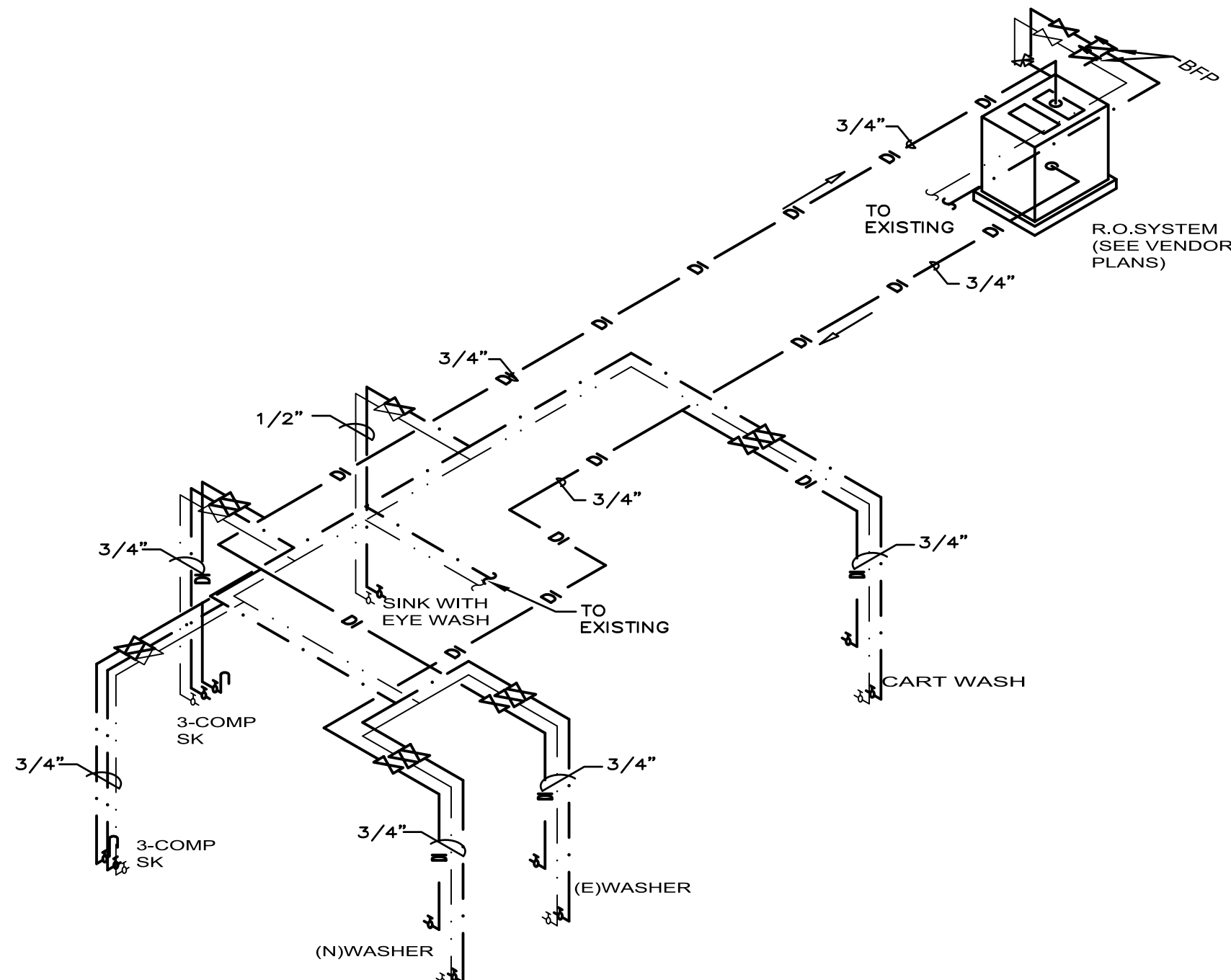
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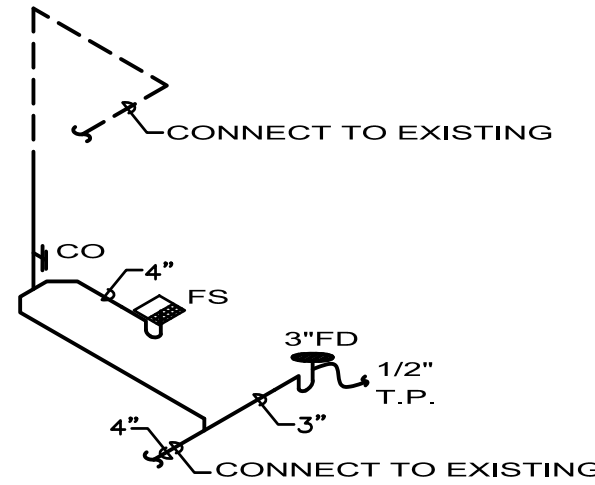
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CONNECTION TO EXISTING PLUMBING SYSTEM NOTES

- INSTALLATION OF WORK AND NEW CONNECTION TO EXISTING PLUMBING LINES SHALL BE MADE AT TIME WHICH WILL NOT INTERFERE OR INTERRUPT THE NORMAL BUILDING OPERATION.
- EXACT LOCATIONS, SIZE, AND ELEVATION OF EXISTING PIPING SHALL BE FIELD VERIFIED BEFORE START OF ANY WORK. ACTUAL FIELD CONDITIONS MAY REQUIRE ADJUSTMENT OR MODIFICATION TO PROPOSED ROUGHING, LAYOUT, AND ROUTING OF PIPING, INCLUDING POINT OF CONNECTION TO EXISTING WORK OF ADEQUATE SIZE TO ACCOMMODATE NEW WORK.
- PROVIDE NECESSARY ADJUSTMENT OF NEW INSTALLATION DUE TO INTERFERENCE WITH BUILDING CONDITIONS, INCLUDING WORK OF OTHER TRADES.
- PIPING MATERIAL, VALVES, PIPE SUPPORTS, PIPE COVERING, ETC. USED IN THE INSTALLATION OF WORK OF THIS CONTRACT SHALL BE NEW AND SHALL MATCH EXISTING, PROVIDING SAME MEETS ALL APPLICABLE BUILDING AND PLUMBING CODES.
- EXISTING PIPING SHALL BE MODIFIED AND/OR REMOVED TO POINT THAT WOULD ACCOMMODATE CONNECTION OF NEW (WATER AND WASTE) PLUMBING ROUGHING.
- PROVIDE NECESSARY TEST TO DETERMINE TIGHTNESS OF EXISTING AND NEW PLUMBING PIPING SYSTEMS. ALL LEAKS AND OPEN OUTLETS FOUND DURING TEST SHALL BE REPAIRED, CAPPED OR PLUGGED. PERFORM ADDITIONAL TEST UNTIL IT IS DETERMINED THAT THE PLUMBING PIPING SYSTEMS IS WATER TIGHT.
- ALL OPENINGS, HOLES, ETC. MADE FOR THE REMOVAL OF PLUMBING PIPING, FIXTURES, ETC. SHALL BE PATCHED WITH MATERIAL TO MATCH EXISTING.
- IF FIELD CONDITION FINDS THAT EXISTING SANITARY, AND VENT, CAN BE UTILIZED, CONNECT NEW SANITARY, AND VENT LINES TO EXISTING. MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE NEW SANITARY, AND VENT LINES.



R.O. DISTRIBUTION PIPING
N.T.S.



MECHANICAL ROOM SANITARY ISOMETRIC
N.T.S.

GENERAL PLUMBING NOTES

- ALL WORK SHALL COMPLY WITH THE 2018 EDITION OF THE NORTH CAROLINA STATE PLUMBING CODE, DHRSR AND ALL LOCAL CODE AMENDMENTS.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS.
- CONTRACTOR SHALL VISIT THE EXISTING SITE (IF APPLICABLE) PRIOR TO BIDDING AND SHALL INVESTIGATE ALL CONDITIONS THAT AFFECT HIS WORK. VERIFY LOCATIONS, SIZES, DIMENSIONS, AND INVERT ELEVATIONS OF ALL ON-SITE SANITARY SEWERS, STORM DRAINS, WATER MAINS AND NATURAL GAS MAINS, AND MAKE CERTAIN THAT ALL CONNECTIONS CAN BE MADE. THE CONTRACTOR SHALL MAKE THE ARCHITECT/ENGINEER AWARE OF ANY CONFLICTS.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN THE TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED. CONSULT THE ARCHITECT'S DRAWINGS FOR ALL GRADE AND FINISH FLOOR ELEVATIONS.
- PLUMBING PLANS, DETAILS AND RISERS ARE SCHEMATIC AND MAY NOT INDICATE ALL FITTINGS, OFFSETS, ETC. REQUIRED TO MAKE INSTALLATION COMPLETE. PLUMBING CONTRACTOR SHALL LOCATE PIPING FOLLOWING GENERAL ROUTING AS INDICATED ON PLANS AND PROVIDE NECESSARY FITTINGS, ETC. AS REQUIRED TO PROVIDE A COMPLETE SYSTEM AND MEET PLUMBING CODE REQUIREMENTS.
- INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICEVERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- WHERE USED, "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWING SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
- CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AT ONE TIME, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. PLUMBING CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM PLUMBING ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).
- CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.
- DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
- MATERIALS AND EQUIPMENT SHALL BE NEW OF AMERICAN MANUFACTURER, FREE OF DEFECTS AND IT SHALL MEET THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, ASTM & ANSI SPECIFICATIONS WHERE SUCH EXIST, STANDARD AND LOCAL BUILDING CODES, AND SHALL BE SUITABLE FOR THE USE INTENDED.

WATER PIPING SYSTEM NOTES

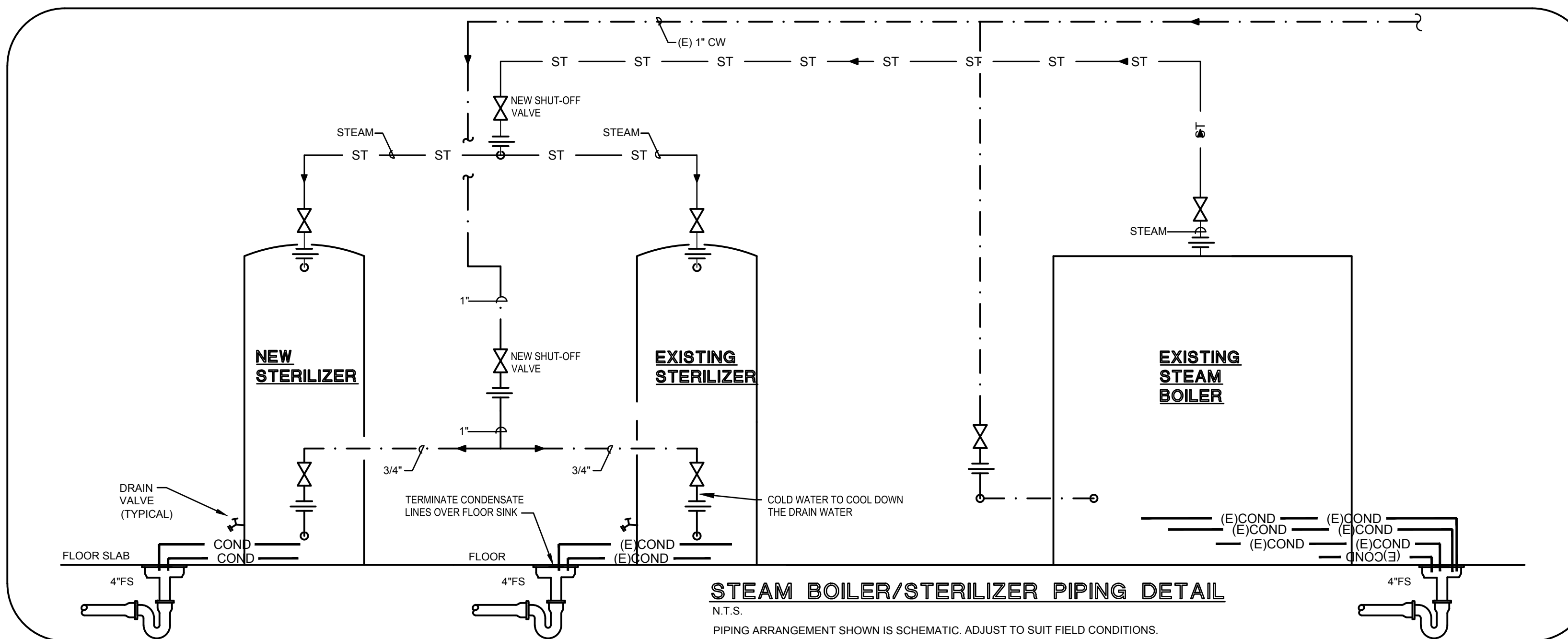
- WATER PIPING SHALL BE: COPPER PIPING (ABOVE GRADE): ASTM B88, TYPE 1, HARD DRAWN. FITTINGS: (a) SOLDERED ANSI/ASME B16.23, CAST BRASS OR ANSI/ASME B16.29, WROUGHT COPPER. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND LEAK DETECTION FEATURE. JOINTS: (a) SOLDERED: ANSI/ASME B32, LEAD-FREE SOLDER, GRADE 95TA. (b) PRESSED: ASME B16.18 OR ASME B16.22, COPPER PRESS FITTING WITH EPDM O-RING AND LEAK DETECTION FEATURE. FITTINGS AND JOINTS SHALL COMPLY WITH SECTION 605 OF 2023 FBC-PLUMBING. WATER VALVES 2" AND SMALLER SHALL BE A BRONZE BALL VALVE, TWO-PIECE BODY, 600 PSI WORKING PRESSURE, NIBCO MODEL S-585-80-LF (NSF-61 LEAD FREE) OR APPROVED EQUAL. THE USE OF GATE VALVES SHALL BE PROHIBITED.
- DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION LOOPS SHALL BE PROVIDED WITH 1" INSULATION FOR SUPPLY AND RETURN PIPING. FOR BRANCHES OFF MAIN LOOP, INSULATE FIRST 8 FT OF PIPING. DOMESTIC HOT WATER SYSTEMS WITHOUT RECIRCULATION SHALL BE PROVIDED WITH 1" INSULATION FOR THE FIRST 8 FT OF PIPE AFTER THE WATER HEATER. INSULATION MATERIAL SHALL BE FIBERGLASS (JOHN MANVILLE MICRO-LOK), ARMACEL, ELASTOMERIC (AP ARMAFLEX), OR APPROVED EQUAL. COVER VALVES, FITTINGS AND FLANGES WITH INSULATION SIMILAR TO ADJACENT PIPE COVERING. EXTERIOR ABOVE GRADE WATER PIPING SHALL BE FINISHED WITH AN ALUMINUM JACKET SECURED WITH 1/2" ALUMINUM BANDS AND SEALS, ALUMINUM SCREWS, OR POP RIVETS ON 8". PLACE LAPS TO SHED WATER, AND CALK WHERE NECESSARY TO PREVENT WATER INTRUSION. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND WHERE REQUIRED BY THE ADMINISTRATIVE AUTHORITY, DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE AS PER SECTION 610 OF FPC-2023.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- PROVIDE A WATER HAMMER ARRESTOR ON ALL WATER SUPPLY LINES SERVING FLUSH VALVE PLUMBING FIXTURES, SOLVED VALVES, ETC. INCLUDING OTHER FIXTURES OR EQUIPMENT WITH QUICK CLOSING VALVES (ICE MAKERS, & DISHWASHERS). USE SLOTTED CHEF SHOCK ARRESTORS, P.D.I. #A - 1/2" CONN., P.D.I. #C - 3/4" CONN., P.D.I. #C - 1" CONN., APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. CONFORMS WITH ANSISASSE 1010 STANDARDS.
- PROVIDE AUTOMATIC TRAP PRIMER ON COLD WATER CONNECTION TO LAVATORY FIXTURE WITH COLD WATER TUBE TO FLOOR DRAIN AUXILIARY INLET FITTING. FLOOR DRAINS IN AREAS WHERE A LAVATORY (TRAP PRIMER) CONNECTION IS NOT AVAILABLE, PROVIDE A TRAP PRIMER DISTRIBUTION UNIT PRECISION PLUMBING PRODUCTS, MODEL PR-500 (OR APPROVED EQUAL) AND A SHUT-OFF VALVE IN ACCESSIBLE AREA.
- D.I. WATER DISTRIBUTION PIPING TO BE POLYPROPYLENE.
- ESCUTOCHONS SHALL BE CHROME PLATED BRASS WITH LOCKING SCREWS WHERE PIPES PASS THROUGH FINISHED WALLS.

STEAM & STEAM CONDENSATE PIPING SYSTEM NOTES

- STEAM PIPING SHALL BE TYPE "L", HARD DRAWN COPPER WITH WROUGHT OR FORGED COPPER FITTINGS CONFORMING WITH ASTM B 88 OR BLACK STEEL PIPE CONFORMING WITH ASTM A 53 A 53M. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- STEAM SUPPLY AND RETURN PIPING 1-1/4" OR LESS SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS AND PIPING 1-1/2" TO 4" SHALL BE INSULATED WITH 2" THICK FIBERGLASS. EXTERIOR ABOVE GRADE WATER PIPING SHALL BE FINISHED WITH AN ALUMINUM JACKET SECURED WITH 1/2" ALUMINUM BANDS AND SEALS, ALUMINUM SCREWS, OR POP RIVETS ON 8". PLACE LAPS TO SHED WATER, AND CALK WHERE NECESSARY TO PREVENT WATER INTRUSION. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.
- SUBJECT PIPING SYSTEM TO HYDROSTATIC TEST PRESSURE THAT IS NOT LESS THAN 1.5 TIMES THE WORKING PRESSURE. TEST PRESSURE SHALL NOT EXCEED MAXIMUM PRESSURE FOR ANY VESSEL, PUMP VALVE, OR OTHER COMPONENT IN SYSTEM UNDER TEST. VERIFY THAT STRESS DUE TO PRESSURE AT BOTTOM OF VERTICAL RUNS DOES NOT EXCEED 90% OF SPECIFIED MINIMUM YIELD STRENGTH. AFTER HYDROSTATIC TEST PRESSURE HAS BEEN FOR AT LEAST 10 MINUTES, EXAMINE PIPING, JOINTS, AND CONNECTIONS FOR LEAKAGE. ELIMINATE LEAKS BY TIGHTENING, REPAIRING, OR REPLACING COMPONENTS, AND REPEAT HYDROSTATIC TEST UNTIL THERE ARE NO LEAKS.
- TESTING REPORT SHALL BE SUBMITTED TO THE OWNER.
- STEAM SUPPLY PIPING SHALL BE SLOPED UNIFORMLY DOWN IN THE DIRECTION OF FLOW AT 1/4 INCH PER 10 FEET AND STEAM CONDENSATE RETURN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/2 INCH PER 10 FEET. ON STRAIGHT HORIZONTAL RUNS WITH NO DRAINAGE POINTS, SPACE DRIP LEGS AT INTERVALS NOT EXCEEDING 300 FT. WHEN PIPE IS PITCHED DOWN IN THE DIRECTION OF THE STEAM FLOW AND AT A MAXIMUM OF 150 FT. WHEN THE PIPE IS PITCHED UP, SO THAT CONDENSATE FLOW IS OPPOSITE THAT OF STEAM FLOW. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
- EXPANSION JOINTS SHALL BE COMPLIANT WITH THE EJMA (EXPANSION JOINTS MANUFACTURING ASSOCIATION) STANDARDS. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.

PLUMBING FIXTURE LIST

TAG	MFG.	MODEL	REMARKS
FS-2	ZURN	FD2378-NH3-H	NO HUB FLOOR SINK, 8" X 8", 1/2 GRATE, CAST IRON BODY WITH A WHITE ACID-RESISTANT PORCELAIN ENAMEL INTERIOR COATING, AND AN ABS ANTI-SPLASH DOME STRAINER.



STEAM BOILER/STERILIZER PIPING DETAIL
N.T.S.
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS.

PLUMBING DRAWING LIST

DRAWING NUMBER	DRAWING NAME
P0.1	PLUMBING NOTES AND DETAIL
P1.1	PLUMBING PLAN - DOMESTIC AND DI WATER
P1.2	PLUMBING PLAN - SANITARY

NOTE

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HYAC PLUMBING ELECTRICAL

C.D. HAIR ARCHITECT
2250 Vista Parkway
West Palm Beach, FL
15034

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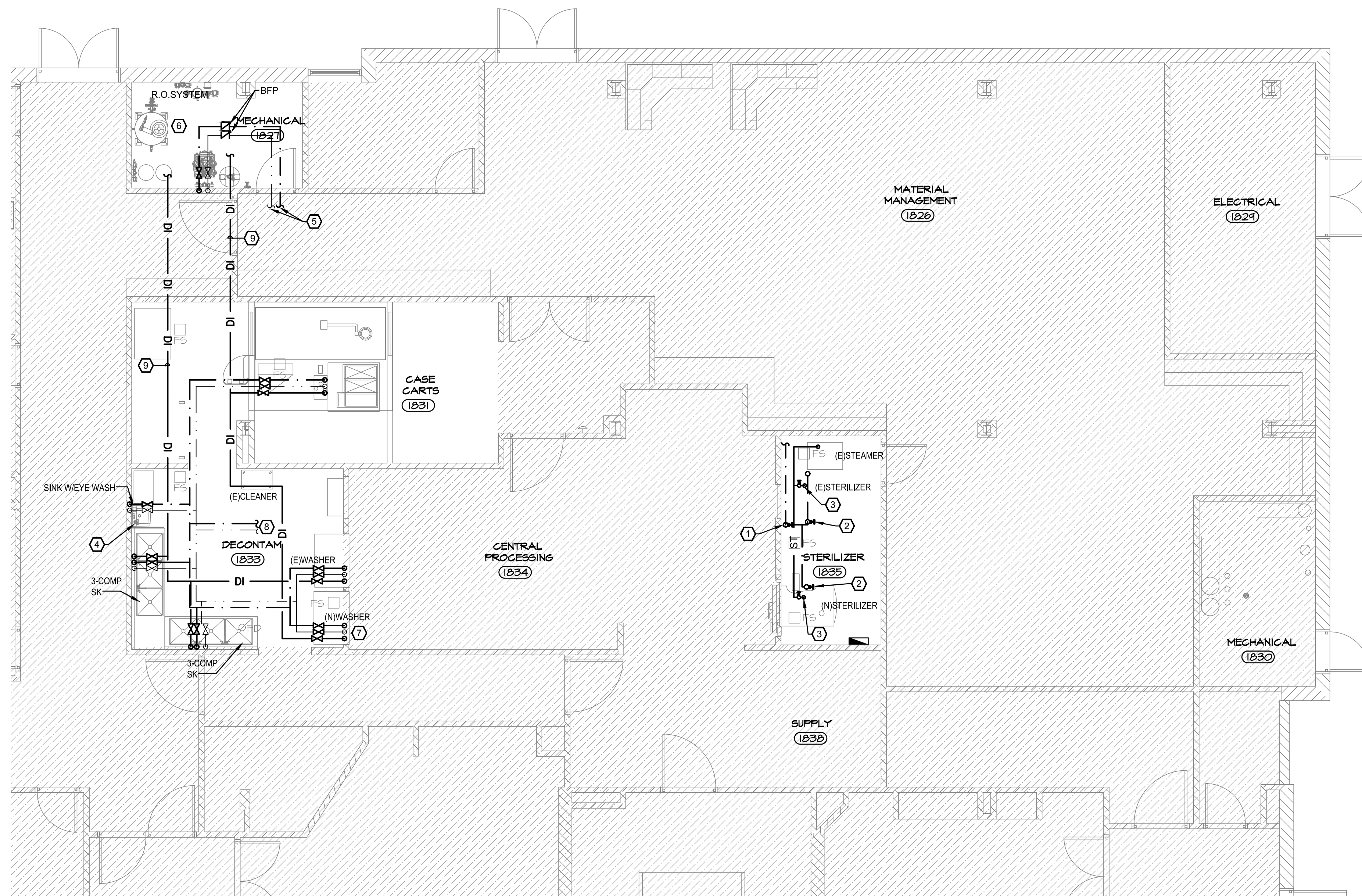
SEAL 048609
ENGINEER
ANDREW J. YOUNGROSS

An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brighthwater Drive
Lillington, North Carolina

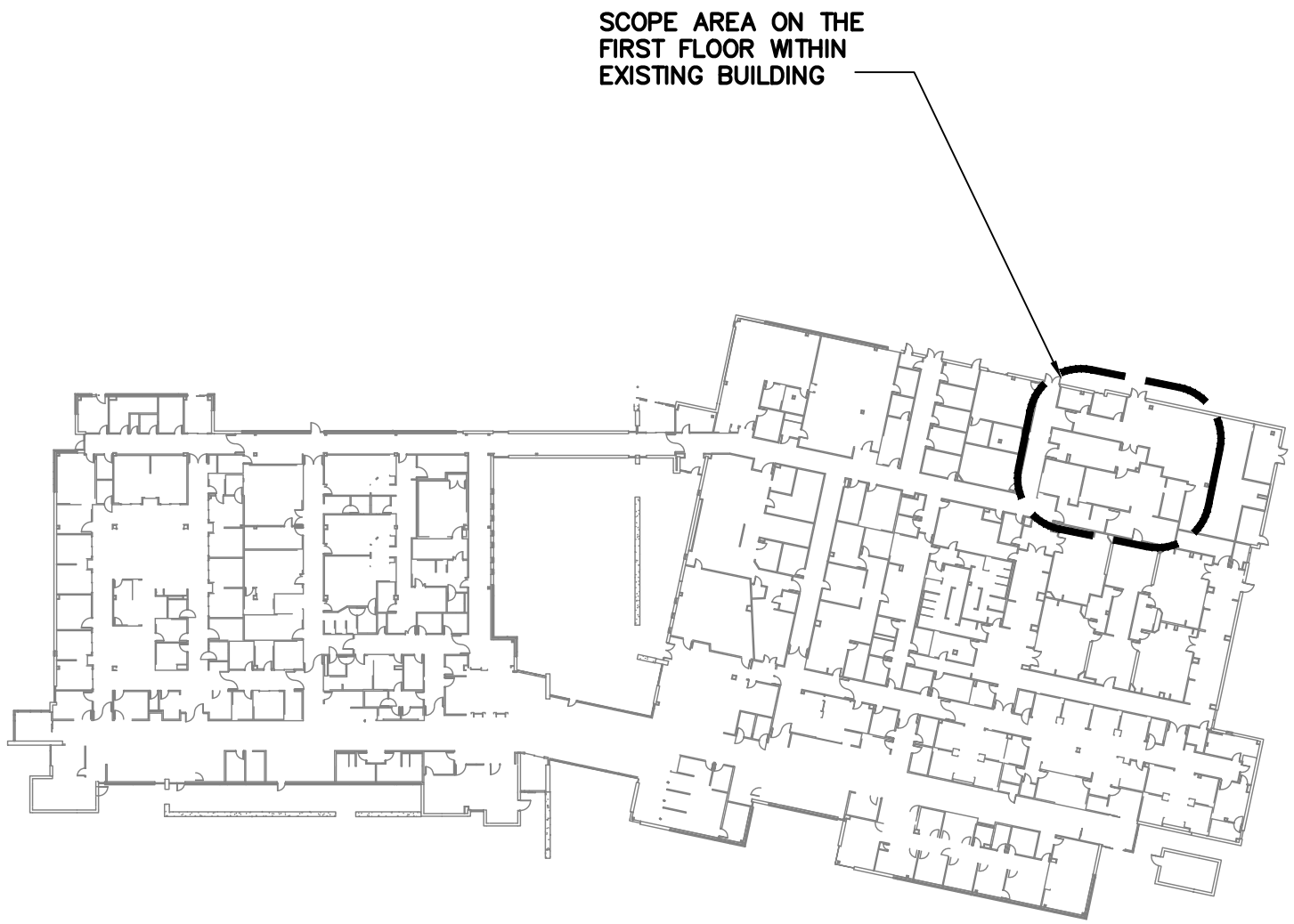
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principal: AJY
designer: RR/HL/KS
file name:

date: 09.26.25
title: **PLUMBING NOTES, DETAIL**

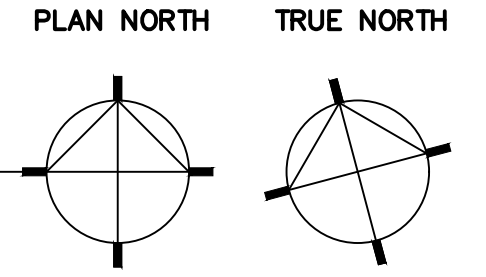
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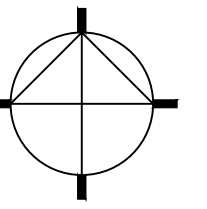
PLAN KEY NOTES	
1	PROVIDE NEW SHUT OFF VALVE ON RISER FROM EXISTING MAIN WATER SUPPLY. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
2	PROVIDE INDIVIDUAL SHUT-OFF VALVE ON 1" CW SUPPLY. PROVIDE 3/4" CW FOR EACH STERILIZER FOR THE DRAIN COOLING VALVES.
3	PROVIDE NEW SHUT-OFF VALVE ON STEAM PIPING AND SPLIT STEAM SUPPLY IN 2 SEPARATE BRANCHES EACH ONE WITH ISOLATION VALVE. ONE FOR EACH STERILIZER. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
4	DECK MOUNTED EYE WASH GUARDIAN G1949 OR SIMILAR. AUTOFLOW 90° SWING-DOWN. PROVIDE G8020 THERMOSTATIC MIXING VALVE TO PRECISELY BLEND HOT AND COLD WATER TO DELIVER TEPID WATER AS REQUIRED BY ANSI Z358.1-2014.
5	CONNECT NEW 3/4" CW AND HW LINES WITH VALVES AND BACKFLOW PREVENTORS TO EXISTING WATER LINES THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
6	R.O. SYSTEM ROOM. R.O. EQUIPMENT LAYOUT BY WATER VENDOR VINCENT TESORO II AT MECHANICAL SOLUTIONS INC. (WATERGURU.COM)
7	CONNECT NEW 3/4" CW AND HW AND 3/4" D.I. WATER LINES WITH VALVES TO NEW WASHER. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
8	CONNECT NEW 3/4" CW AND HW LINES TO EXISTING WATER LINES THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
9	3/4" D.I. WATER LOOP TO FEED SINKS, WASHERS AND CART WASH.



PLUMBING PLAN - DOMESTIC AND DI WATER
3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
NTS



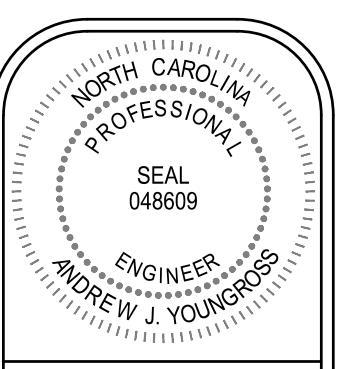
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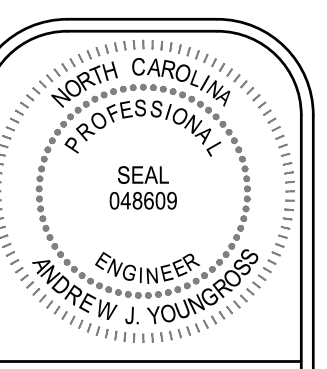
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designer: RR/HL/KS
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date: 09.26.25
title: **PLUMBING PLAN DOMESTIC AND DI WATER**

revision:



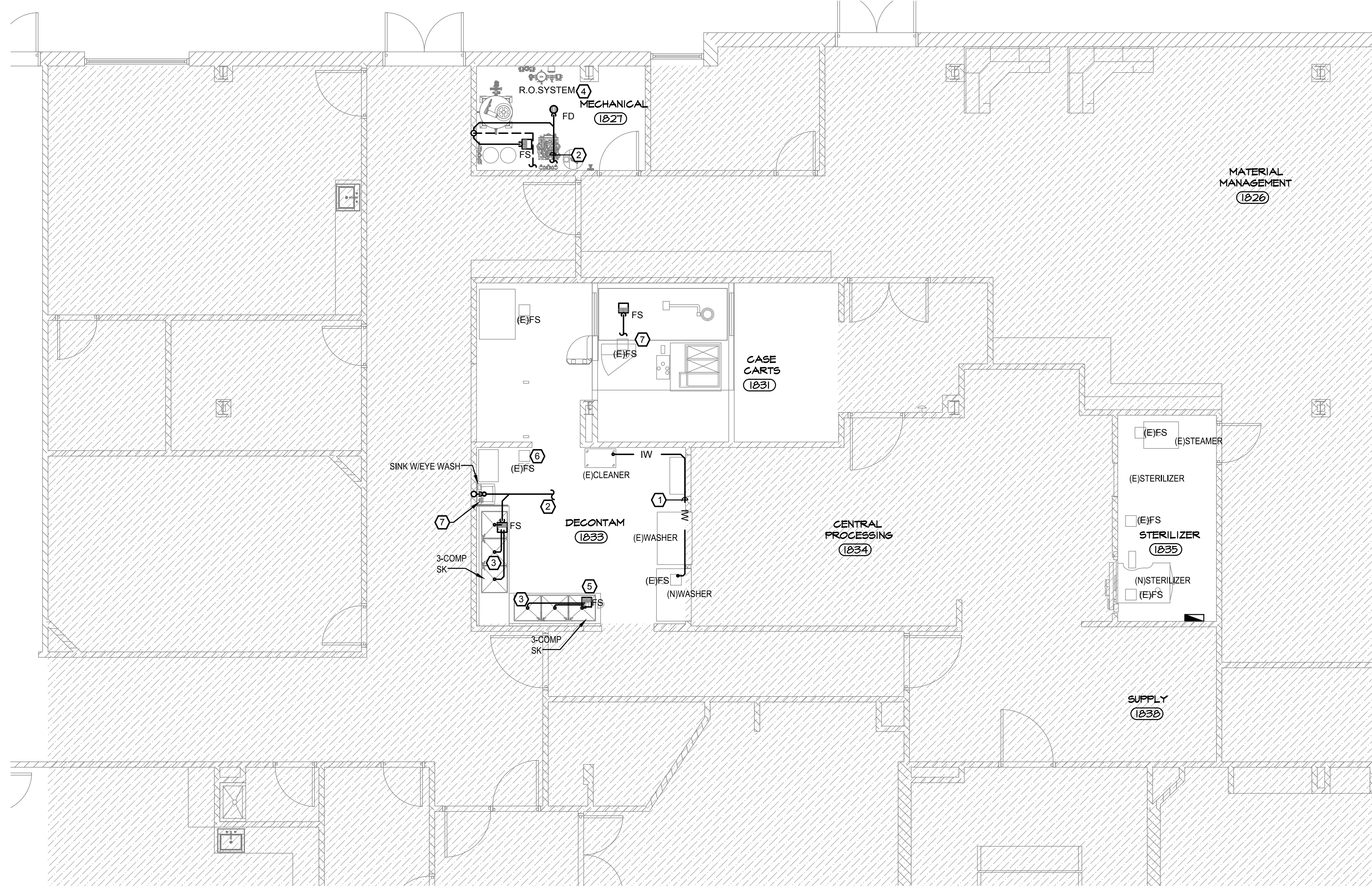
An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brighthouse Drive
Lillington, North Carolina

revision:

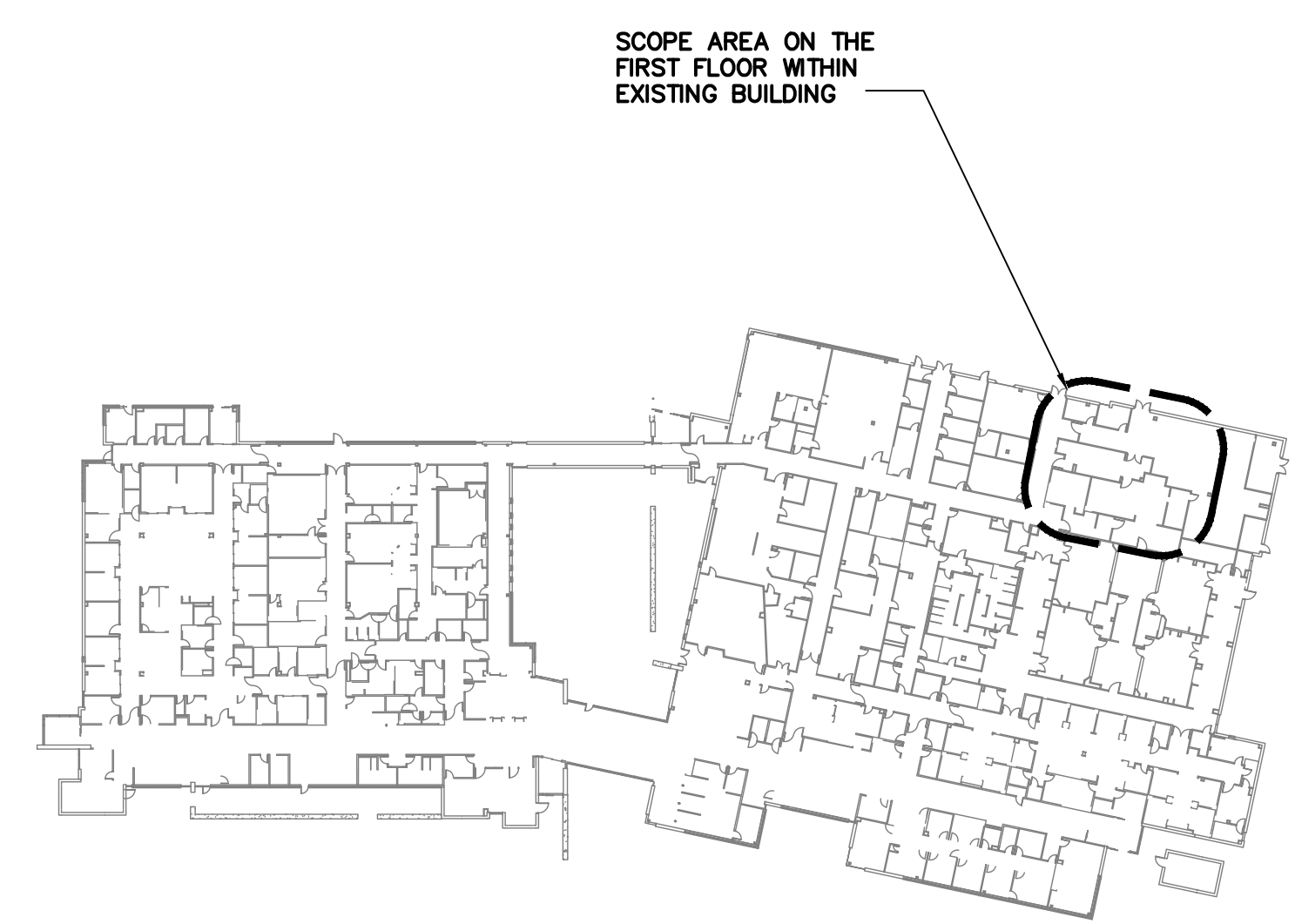


An Interior Renovation for:
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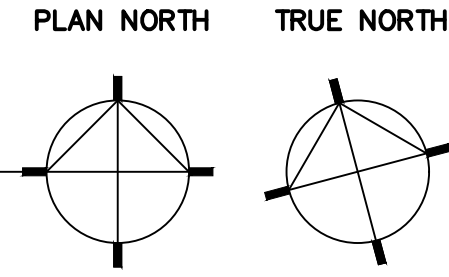
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**PLUMBING
 PLAN
 SANITARY**



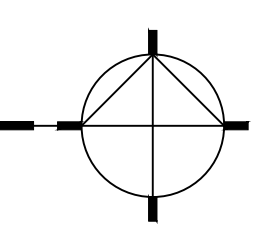
PLAN KEY NOTES	
①	EXTEND INDIRECT WASTE FROM ULTRASONIC CLEANER TO EXISTING FLOOR SINK THIS AREA AND TERMINATE WITH AN AIR GAP. CONTRACTOR SHALL VERIFY IN FIELD EXACT LOCATION OF FLOOR SINK.
②	CONNECT NEW 4" SANITARY LINE TO EXISTING SANITARY LINE THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, LOCATION AND INV. ELEVATIONS PRIOR TO COMMENCING ANY WORK.
③	PROVIDE 1 1/2" INDIRECT WASTE FROM EACH SINK WELL AND TERMINATE OVER FLOOR SINK WITH AN AIR GAP AS PER NORTH CAROLINA PLUMBING CODE 2018 SECTION 802.1.1
④	R.O. SYSTEM ROOM. R.O. EQUIPMENT LAYOUT BY WATER VENDOR VINCENT TESORO II AT MECHANICAL SOLUTIONS INC. (WATERGURU.COM)
⑤	REMOVE AND REPLACE EXISTING FLOOR DRAIN WITH NEW FLOOR SINK. SEE SPECS. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION.
⑥	REMOVE EXISTING FLOOR SINK. CAP SANITARY BELOW SLAB. PATCH TO MATH FLOOR.
⑦	REMOVE EXISTING FLOOR SINK. EXTEND SANITARY TO NEW FLOOR SINK LOCATION INSIDE PIT. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, LOCATION AND INVERT ELEVATION PRIOR TO COMMENCING ANY WORK.



PLUMBING PLAN - SANITARY
 3/16"=1'-0"



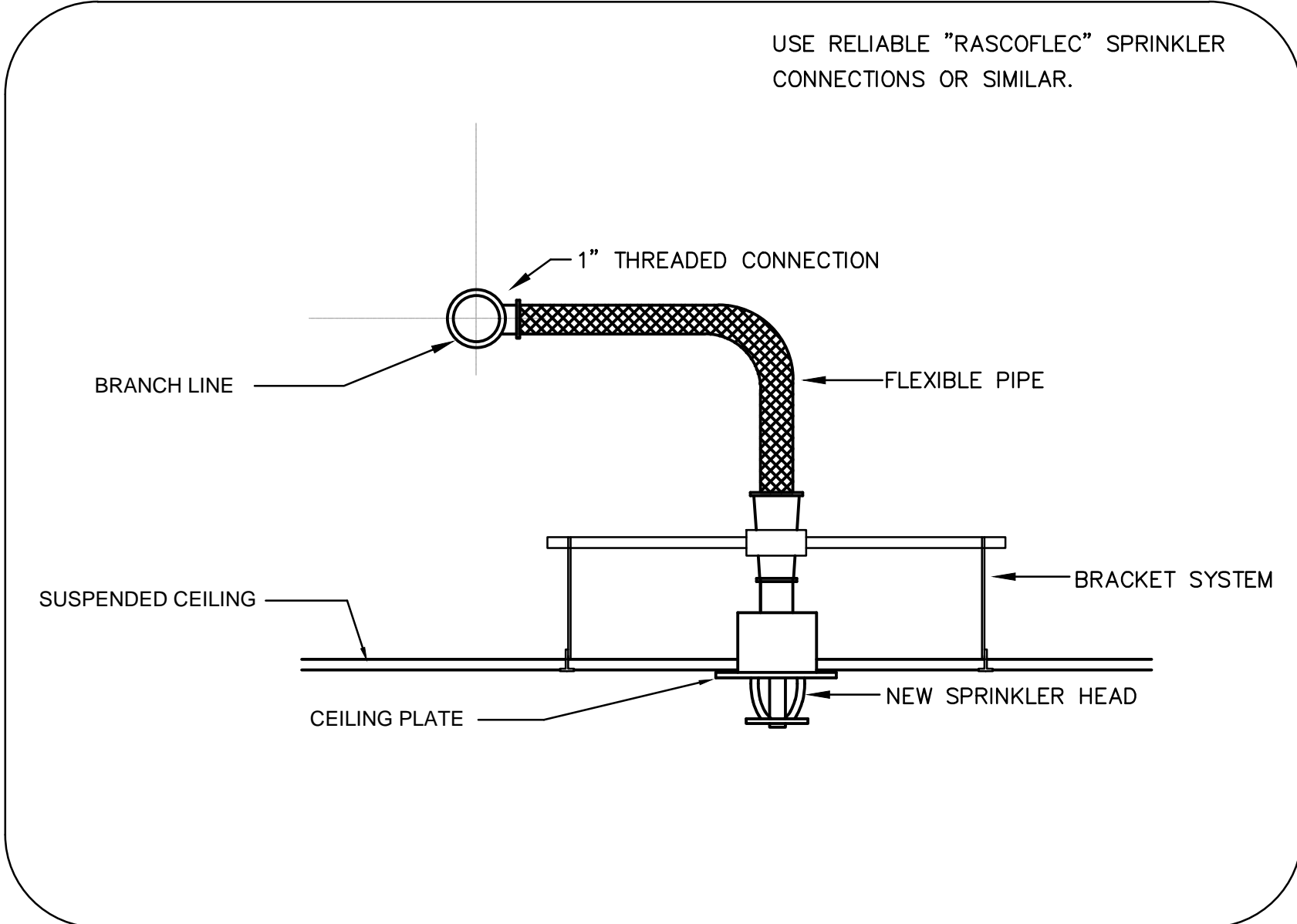
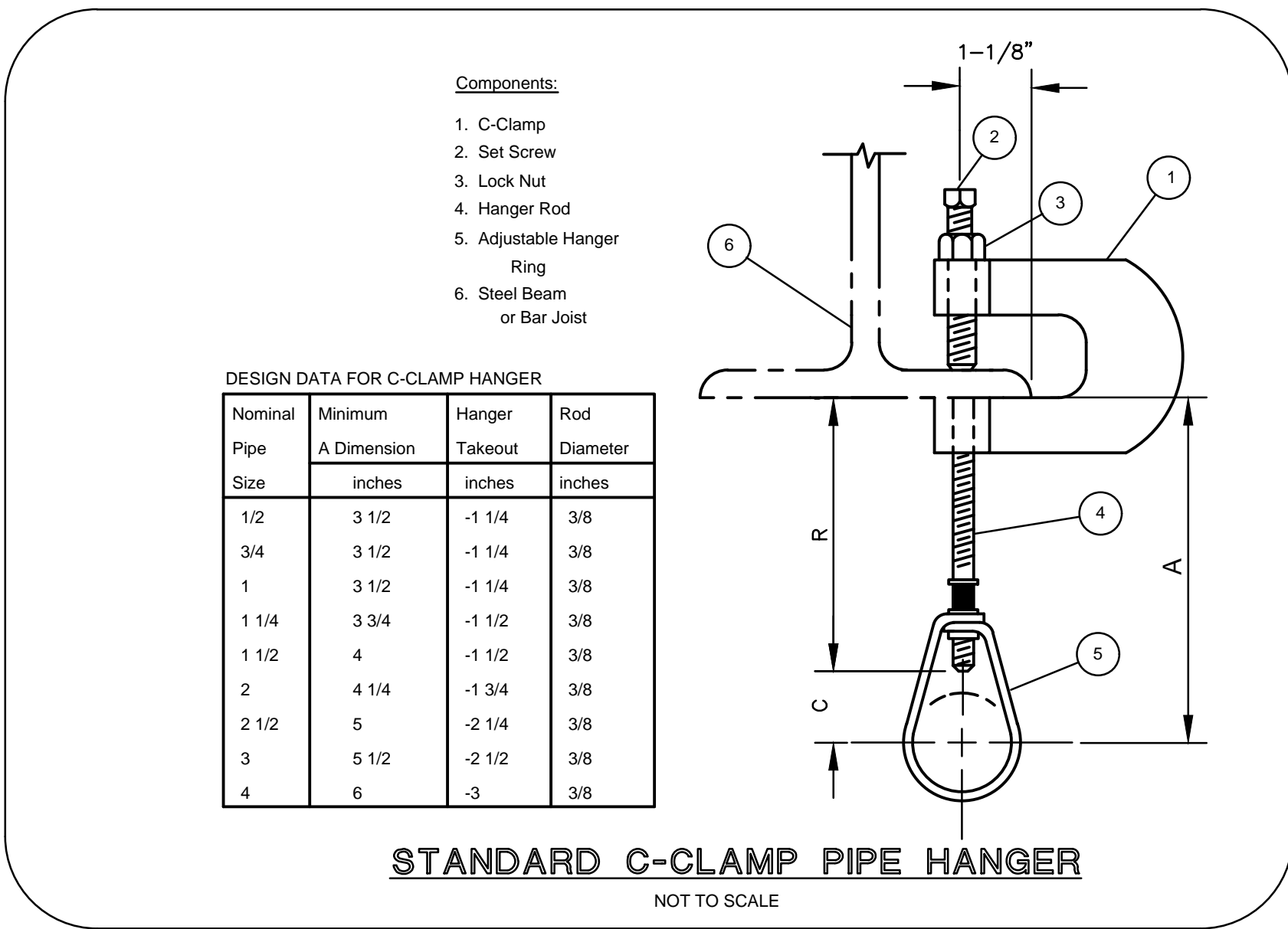
OVERALL FIRST FLOOR PLAN
 NTS



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- FIRE PROTECTION NOTES**
- SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
 - CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
 - ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES INCLUDING BUT NOT LIMITED TO NORTH CAROLINA STATE FIRE PREVENTION CODE 2018, NFPA 1 (2018), NFPA 101 (2018), NFPA 13 (2016), NFPA 20 (2016), NFPA 24 (2016), NFPA 25 (2017).
 - CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
 - RESTORATION OF EXISTING SYSTEMS, DEVICES, FINISHES, ETC., DAMAGED OR ALTERED BY NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY THE OWNER, ARCHITECT AND/OR ENGINEER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
 - CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
 - CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
 - WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW CORNING CORP., SILICONE ELASTOMER, DOW CORNING 3-8548 SILICONE RTV FOAM, OR APPROVED EQUAL. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BEAM PENETRATIONS AS IT RELATES TO HIS WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAIL.
 - CONTRACTOR TO PROVIDE HYDRAULIC CALCULATIONS, SYSTEM LINE SIZING, PUMP SIZING, AND SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR SHALL SUBMIT (1) SET OF INSTALLATION SHOP DRAWINGS AND EQUIPMENT CUT SHEETS IN ELECTRONIC FORMAT TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK.
 - UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL SUPPLY THE ENGINEER WITH (1) COMPLETE SET OF MYLAR AS-BUILT DOCUMENTS AND (3) COMPLETE COPIES OF OPERATIONS AND MAINTENANCE MANUALS. MYLARS SHALL BE OBTAINED AT CONTRACTOR'S EXPENSE.
 - ALL EXPOSED FIRE SPRINKLER PIPING TO BE PAINTED RED.
 - ALL FIRE SPRINKLERS TO BE INSTALLED CENTERED IN TILE.
 - ACCEPTANCE AND HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 25 OF NFPA 13.
 - DO NOT SCALE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL CONDITIONS AT THE JOB SITE AND COORDINATE WITH ALL TRADES PRIOR TO COMMENCEMENT. THE SPRINKLER DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC.
 - MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE SPRINKLER CONTRACTOR'S EXPENSE.

- GENERAL NOTES**
- FIRE SPRINKLER SPACING TO BE:
LIGHT HAZARD: OFFICE AREA
DENSITY: 0.1GPM/SF @ 15'X15' MAX
 - ALL FIRE SPRINKLER DEVICES TO BE UL AND/OR FM APPROVED.
 - SPRINKLER PIPING SHALL BE STEEL PIPE (ASTM 53, 120, OR 135) WITH 150 PSI MALLEABLE IRON FITTINGS WITH THREADED CONNECTIONS OR TYPE "L" HARD DRAWN COPPER TUBING WITH COPPER OR BRASS FITTINGS AND 125 PSI SOLDER JOINTS ("NO-LEAD SOLDER").
A. SCH. 40, ALLIED XL OR AMERICAN BLT FOR 1" THRU 2"
B. SCH. 10 FOR 2-1/2" AND LARGER
C. SCH. 80 IF 1/2" OR 3/4" NIPPLE IS USED.
NOTE: NIPPLE CANNOT EXCEED 4" IN LENGTH AND SUPPLY ONLY ONE HEAD PER NFPA 13.
 - FITTINGS
A. BLACK CIS CLASS 125 FOR 1" THRU 2".
B. GROOVED TYPE FOR 2-1/2" AND LARGER.
 - HANGERS TO BE IN ACCORDANCE WITH NFPA 13 AND LOCAL AUTHORITIES. SPRINKLER PIPING IS NOT TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
MAXIMUM DISTANCE BETWEEN PIPE SUPPORTS:
* 12'-0" FOR 1 1/4" DIAMETER PIPE AND SMALLER
* 15'-0" FOR 1 1/2" DIAMETER PIPE AND LARGER

FIRE PROTECTION DRAWING LIST

DRAWING NUMBER	DRAWING NAME
FP01	FIRE PROTECTION NOTES, LEGEND AND DETAILS
FP11	FIRE PROTECTION PLAN

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NORTH CAROLINA
PROFESSIONAL
SEAL
048609
ENGINEER
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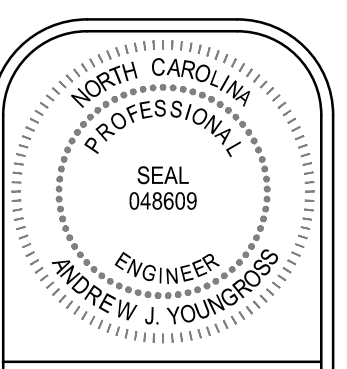
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job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:
date: 09.26.25
title: FIRE PROTECTION NOTES, LEGEND AND DETAILS

FP01

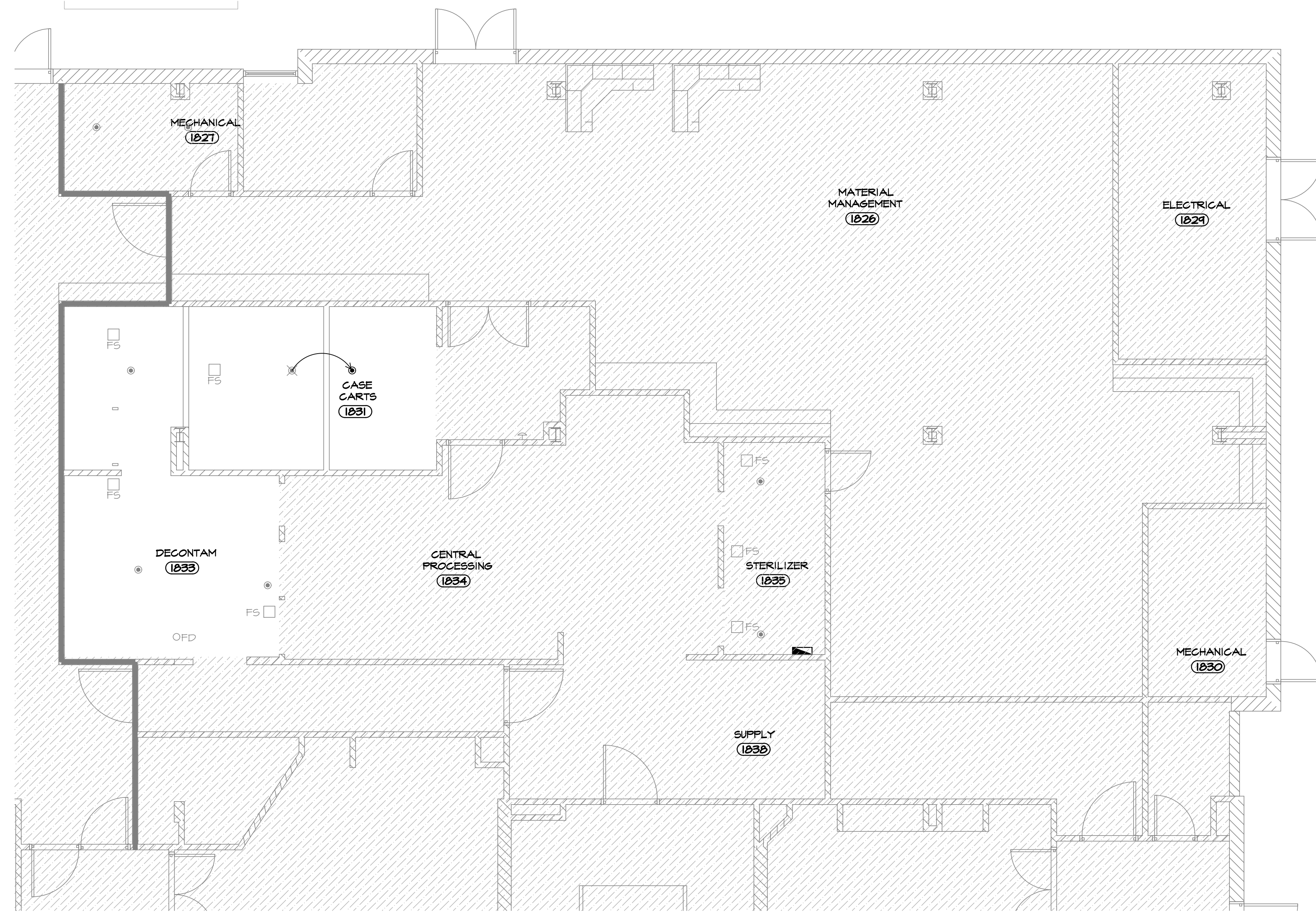
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 PLAN**

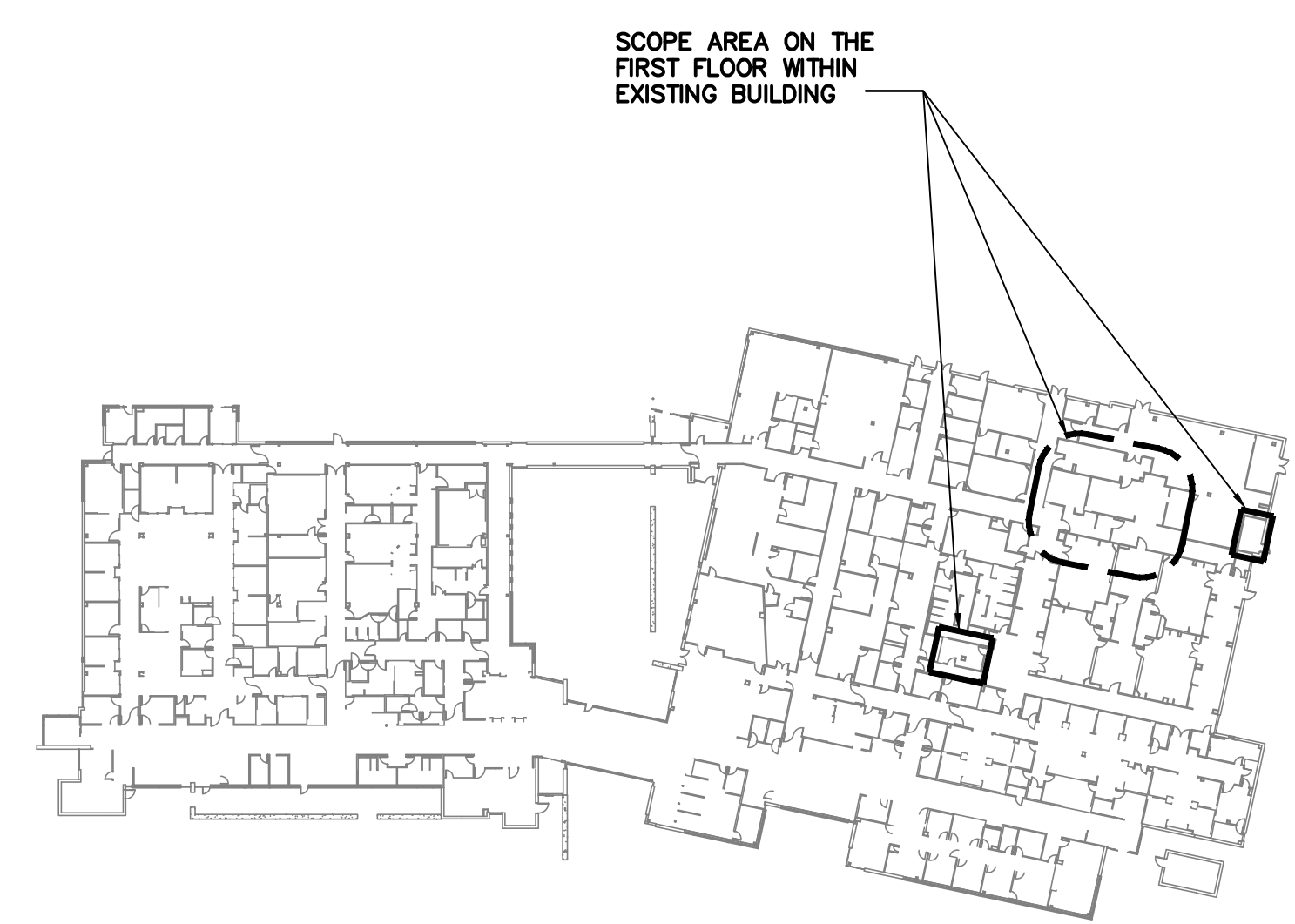


NOTE
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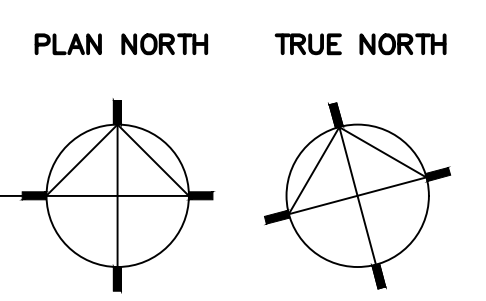
SCOPE OF WORK
 RELOCATE EXISTING HEAD SO IT IS NOT IN CONFLICT WITH NEW WALK IN WASHER. COORDINATE FINAL LOCATION IN THE FIELD.

FIRE PROTECTION LEGEND

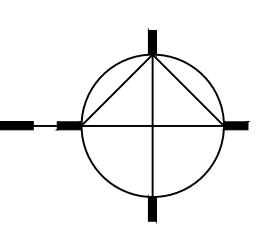
- RELOCATED PENDENT SPRINKLER HEAD
- ⊙ EXISTING PENDENT SPRINKLER HEAD TO REMAIN
- ⊗ EXISTING PENDENT SPRINKLER HEAD TO BE REMOVED



FIRE PROTECTION PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS



NOTE
 THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

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