

Approved: Project Director

656-18-300 **ENVIRONMENTAL CONTROLS Building Number** 1, 2, 3, 28, 29, 49, 50, 51, NOT FOR CONSTRUCTION **Drawing Number** ST. CLOUD VA MEDICAL CENTER, MN Checked

RAC

E-001

111, 116

**Project Number** 

6

ABBREVIATIONS & SYMBOLS

**FULLY SPRINKLERED** 

2022-07-15

SGC

FAUCET

FLOOR

COUNTERTOP

VA FORM 08-6231

**DESCRIPTION** 

DATE

MEP Engineers + Architects

1173 Research Way

Forest, VA 24551

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3

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Management U.S. Department of Veterans Affairs

and Facilities

#### **GENERAL NOTES AND CONDITIONS:**

- 1. THESE DRAWINGS WERE PREPARED FROM INFORMATION TAKEN FROM THE AVAILABLE BUILDING DRAWINGS, ARCHITECTURAL BACKGROUNDS PROVIDED BY THE OWNER AND FIELD SURVEY INFORMATION COMPILED BY THE ENGINEERING DESIGN TEAM FOR THE PURPOSE OF ENGINEERING DESIGN. EXISTING CONDITIONS ARE SHOWN AS ACCURATELY AS POSSIBLE. THERE IS THE POSSIBILITY THAT CONDITIONS SHOWN ARE NOT EXACTLY AS EXISTING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, SIZES AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK.
- 1.1. DRAWINGS ARE DIAGRAMMATIC.
- 1.2. SHOULD IT APPEAR THAT THE WORK INTENDED TO BE DESCRIBED OR RELATED WORK ARE NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THE DRAWINGS, OR IN THE SPECIFICATIONS, CONSULT THE ENGINEER FOR NECESSARY CLARIFICATIONS, AND CONFORM TO THOSE CLARIFICATIONS INSOFAR AS THEY ARE CONSISTENT WITH THE ORIGINAL DRAWINGS AND SPECIFICATIONS. IN NO CASE SHALL WORK PROCEED IN UNCERTAINTY.
- 1.3. EQUIPMENT ARRANGEMENTS ARE DESIGNED TO SHOW PREFERRED CONFIGURATIONS TO SUIT KNOWN CONDITIONS. ACTUAL INSTALLATION BY CONTRACTOR MAY BE ALTERED AS REQUIRED TO SUIT FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION WITHOUT COMPROMISING THE INTENT OF THE ORIGINAL DESIGN.
- 1.4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO STARTING WORK.
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REVISED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
  - 2.1. DURING PERFORMANCE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND MAINTENANCE OF WARNING SIGNS, LIGHT SIGNAL DEVICES, GUARD LIGHTS, BARRICADES, GUARD RAILS, FENCES AND OTHER DEVICES, APPROPRIATELY LOCATED ON AND AROUND THE JOB SITE WHICH GIVE PROPER AND UNDERSTANDABLE WARNING TO PERSONS WITH REGARD TO HAZARDOUS CONDITIONS, EQUIPMENT AND OPERATIONS BEING PERFORMED IN CONJUNCTION WITH THE WORK.
- 3. THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
  - ELECTRICAL: NATIONAL ELECTRIC CODE: NFPA 70 2017
- 4. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING CODES (ABOVE), INDUSTRY STANDARDS, AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
- 5. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED. THIS SHALL INCLUDE CUTTING, PATCHING AND RESTORATION OF EXISTING SURFACES DAMAGED DURING THE CONSTRUCTION. CONTRACTOR SHALL ALSO PROVIDE ALL EQUIPMENT SHOWN OR SPECIFIED OR AN APPROVED EQUIVALENT. SUBSTITUTED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED UNTIL GIVEN WRITTEN APPROVAL BY THE OWNER.
- 6. EACH TRADE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY POWER SOURCES AND ANY REQUIRED UTILITIES FOR ANY TEMPORARY MECHANICAL, PLUMBING, AND/OR ELECTRICAL EQUIPMENT OR SYSTEMS (REQUIRED BY THEIR INDIVIDUAL TRADES SCOPE OF WORK) DURING THE COURSE OF CONSTRUCTION AND PHASING/SEQUENCING OF WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND ROUTING OF: TEMPORARY FEEDERS, CONDUIT, TRANSFORMERS, ON—SITE GENERATOR PACKAGES, OVERCURRENT PROTECTION DEVICES, DISCONNECTS, CONNECTIONS AND DISCONNECTION OF EQUIPMENT, ETC. ALL ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN. REFER TO SPECIFICATIONS FOR ADDITIONAL
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED FOR NONCOMPLIANCE WITH THESE CONTRACT DOCUMENTS. CONTRACTOR WILL NOT BE ALLOWED CHANGE ORDERS FOR PROBLEMS ARISING FROM NEGLECT OF PROVISIONS INCLUDED IN THESE CONDITIONS.
- B. MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION, AND UPON SUBSTANTIAL COMPLETION PERFORM FINAL CLEANUP. REMOVE CONSTRUCTION RUBBISH, SCAFFOLDING, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES, AND OTHER MATERIALS OR EQUIPMENT THAT WAS REQUIRED IN CONNECTION WITH THE CONSTRUCTION, BUT NOT A PERMANENT PART THEREOF.
- 9. THOSE PERFORMING WORK AS A CONTRACTOR MUST EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE CONTRACTOR IN WRITING, OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. COMMENCEMENT OF WORK BY A TRADE ON A SURFACE OR CONSTRUCTION SHALL IMPLY ACCEPTANCE OF SUCH SURFACE OR CONSTRUCTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- 10. THE CONTRACTOR SHALL SECURE ALL APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND CERTIFICATES OF INSPECTION REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER ALL CERTIFICATES AND APPROVALS TO THE OWNER AGENT PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE CONTRACTOR MUST FILE NECESSARY DRAWINGS, PREPARE DOCUMENTS AND MAKE APPLICATIONS FOR EACH REQUIRED INSPECTION, PRIOR TO COMMENCING WORK TO AVOID DELAYS DURING CONSTRUCTION.
- 11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS ON ALL EQUIPMENT AND MATERIALS SPECIFIED ON DRAWINGS FOR APPROVAL BY OWNER OR AGENT FOR THE OWNER. THESE DRAWINGS OR SHEETS SHALL CONTAIN ALL NECESSARY DATA, I.E., MANUFACTURER, CATALOG NUMBER, SIZE, DIMENSIONS, CAPACITY, WIRING DETAILS AND ALL OTHER ENGINEERING DATA AND DETAILS NECESSARY FOR COMPLETE CLARITY AND INSTALLATION.
- 12. THE CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF DRAWINGS WHICH SHALL REFLECT THE ACTUAL INSTALLED CONDITIONS AND CONNECTIONS OF ALL EQUIPMENT AND DEVICES. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL MAINTENANCE INFORMATION AND INSTRUCTIONS RECEIVED WITH EQUIPMENT AND SYSTEMS. ALL "AS—BUILT" DRAWINGS AND MISCELLANEOUS INFORMATION SHALL BE GIVEN TO THE OWNER AND ENGINEER AT COMPLETION OF WORK. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 13. CONTRACTOR IS TO PROVIDE ALL REQUIRED SCAFFOLDING, LADDERS, RIGGING, HOISTING AND ALL OTHER EQUIPMENT REQUIRED FOR THE INSTALLATION OF THEIR
- 14. ESTABLISH PASSAGE CLEARANCES REQUIRED TO DELIVER, INSTALL AND ERECT ALL REQUIRE EQUIPMENT. IF STRUCTURES, EQUIPMENT AND SYSTEMS MUST BE ALTERED TO PROVIDE PASSAGE OF EQUIPMENT, THE CONTRACTOR SHALL RESTORE STRUCTURES, EQUIPMENT AND SYSTEMS TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE; INCLUDING REMOVING AND REPLACEMENT OF ALL CEILING AS REQUIRED TO COMPLETE THE WORK.
- 15. THE CONTRACTOR SHALL REPLACE ALL FIREPROOFING MATERIAL, INCLUDING SPRAY APPLIED AND MASONRY TYPES, THAT IS REMOVED TO ACCOMMODATE EQUIPMENT, HANGERS, ANCHORS, ETC. ALL FIREPROOFING MATERIAL THAT IS INTEGRAL TO THE RATING OF AN EXISTING FIRE—RATED ASSEMBLY SHALL BE REPLACED SO THAT THE FULL FIRE RATING IS PRESERVED.

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#### **ELECTRICAL DEMOLITION NOTES:**

- 1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF ELECTRICAL WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN ISSUES WHEN CONCEALED WORK HAS BEEN EXPOSED. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, CONSIDERED JUSTIFIABLE BY THE ENGINEER.
- 2. NOTE THAT THE FACILITY WILL BE OPERATIONAL DURING THE COURSE OF THIS PROJECT.
  - 2.1. THE CONTRACTOR IS TO COORDINATE ALL OF THE DEMOLITION WORK WITH THE FACILITY PERSONNEL TO MINIMIZE DISTURBING THE OPERATING EQUIPMENT, WIRING AND SYSTEMS.
- 2.2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING SYSTEMS.
- 2.3. IF NECESSARY THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER FOR THE FACILITY.
- 3. DEMOLITION AND REMOVAL OF WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER. THE CONTRACTOR SHALL RESTORE, PATCH, PAINT, ETC., ANY INTERIOR/EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- 4. REFER TO ELECTRICAL DEMOLITION AND RENOVATION PLANS FOR NEW EQUIPMENT LAYOUT AND EXTENT OF EQUIPMENT BEING REPLACED, RELOCATED, OR REMOVED. COORDINATE WITH ALL TRADES AS TO EXTENT OF EQUIPMENT BEING REMOVED OR RELOCATED. CLOSELY COORDINATE THE EXTENT OF DEMOLITION SCOPE OF WORK WITH ARCHITECT, ENGINEER AND/OR MECHANICAL PLANS. PATCH AND PAINT (TO MATCH SURROUNDING CONDITIONS) ALL OPENINGS CREATED BY THIS DEMOLITION.
- 5. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS AND BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION IN WRITING PRIOR TO BID SUBMISSION.
- 6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK FOR THIS PROJECT WHETHER OR NOT SPECIFICALLY INDICATED ON THIS OR OTHER DEMOLITION PLANS. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE DISCONNECTION, REMOVAL AND DISPOSAL OF; LIGHTING FIXTURES, PANELBOARDS, DISCONNECT SWITCHES, RECEPTACLES, JUNCTION BOXES, WIRE, CABLE, CONDUIT, MOUNTING HARDWARE STRAPS OR CABLES, ELECTRICAL SERVICES ETC. PER THE SCOPE OF WORK FOR THIS PROJECT.
- 7. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES, ETC., INCLUDING ASSOCIATED WIRING, CONDUITS, COVERS, BOXES, ETC., WHERE SHOWN ON THE DEMOLITION DRAWING. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL IN THE CEILING SPACE; JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE SOURCE PANELBOARD.
- 8. ALL WORK MUST BE SCHEDULED AND PERFORMED AS NOT TO INTERRUPT NORMAL OPERATIONS. REMOVAL OF ITEMS THAT WILL CAUSE ANY TYPE OF TEMPORARY SHUTDOWN SHALL BE PERFORMED DURING OFF—PEAK HOURS. ALL SUCH OUTAGES SHALL BE SCHEDULED AND COORDINATED WITH OWNER FIELD REPRESENTATIVE TO ENSURE ESSENTIAL SERVICES OR AREAS CAN BE MAINTAINED.
- 9. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL CLOSELY FOLLOW THE DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- 10. THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE APPROPRIATE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
- 11. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ELECTRICAL AND ARCHITECTURAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE POWER SUPPLY SOURCE.
- 12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY CONNECTIONS / DISCONNECTIONS AS NEEDED TO ENSURE ADEQUATE SAFETY AND PROTECTION OF ALL PERSONNEL AND EQUIPMENT.
- 13. ALL ELECTRICAL PANELS SHALL BE MAINTAINED AS WORKING PANELS THROUGHOUT CONSTRUCTION AND WILL CONTINUE TO MAINTAIN CIRCUITS FOR EXISTING LIGHTING OR EQUIPMENT TO REMAIN. PROVIDE AS NECESSARY TEMPORARY LIGHTING AND ELECTRICAL FEEDS TO ANY DEVICES THAT MAY BE REQUIRED FOR UNINTERRUPTED USE. PROVIDE TEMPORARY CONNECTIONS FOR RELOCATED EQUIPMENT DURING CONSTRUCTION.
- 14. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ANY DEVICES AND/OR FIXTURES LOCATED OUTSIDE OF DEMOLITION WORK AREA ARE NOT AFFECTED BY REMOVAL OF WIRING AND/OR CIRCUITING. WIRING/CONDUIT SHALL BE LEFT IN A SAFE CONDITION, LABELED FOR ITS USE, AND EXTENDED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY, INCLUDING ALL APPLICABLE CONTROLS.
- 15. PORTIONS OF FEEDER RUNS THAT SHALL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING FEEDER EXTENSIONS IN ALL ASPECTS INCLUDING BUT NOT LIMITED TO CABLE TYPE, CONDUIT SIZES, CONDUCTOR AMPACITY, ETC..
- 16. ALL EXISTING LOW VOLTAGE WIRING FOR FIRE ALARM/SECURITY, SOUND, AND/OR TELECOMMUNICATIONS THAT IS NOT REUSED SHALL BE REMOVED IN ITS ENTIRETY BY THE RESPONSIBLE CONTRACTOR. ALL EXISTING LOW VOLTAGE WIRING FOR MECHANICAL SYSTEMS THAT ARE NOT USED SHALL BE REMOVED IN ITS ENTIRETY BY THE CONTRACTOR.
- 17. CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN CUTTING SLAB TO AVOID DAMAGE TO ANY EXISTING CONDUITS, PIPING, ETC. THAT MAY BE CONCEALED IN OR BENEATH THE SLAB. ANY FLOOR SLAB AFFECTED BY THE REMOVAL OF DEVICES FED VIA UNDERGROUND CONDUIT OR WIRING, SHALL BE FIRESTOPPED AND PATCHED BY THE GENERAL CONTRACTOR AND TO MATCH SURROUNDING FLOOR.
- 18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING, RELOCATING, AND/OR RECONNECTING ALL EXISTING EQUIPMENT THAT IS TO REMAIN, EVEN IF THIS EQUIPMENT IS NOT SHOWN ON PLANS OR PANEL SCHEDULES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING EXISTING CIRCUITS FROM EXISTING EQUIPMENT THAT IS REMAINING TO NEW LOCATION. CONTRACTOR SHALL MATCH EXISTING GAUGE WIRE FROM EXISTING BREAKER TO RELOCATED EQUIPMENT.
- 19. IN THE EVENT THAT ELECTRICAL PLANS CALL FOR EXISTING WIRING TO BE REUSED, THE ELECTRICAL CONTRACTOR SHALL SURVEY EXISTING WIRING, BOXES, ETC. TO DETERMINE IF THE EXISTING BRANCH CIRCUIT MAY BE REUSED FOR NEW EQUIPMENT (IF WIRING REMAINS IN ITS ORIGINAL CONDUIT). ELECTRICAL CONTRACTOR SHALL DETERMINE THAT THE ENTIRE RUN OF EXISTING POWER CONDUIT AND WIRING, FROM SOURCE PANEL TO LOAD FOR WIRING TO BE REUSED, IS FEASIBLE FOR REUSE AND MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES HAVING JURISDICTION.
- IN INSTANCES WHERE EXISTING CIRCUITS ARE TO BE EXTENDED OR REUSED, ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING BRANCH CIRCUIT AND LEAVE IN A SAFE CONDITION (TAG AND LABEL ITS USE) FOR FUTURE RECONNECTION DURING RENOVATION PHASE.
- 20. ALL WIRING NOT INDICATED FOR REUSE SHALL DISCONNECTED AND REMOVED FROM LOAD TO SOURCE (INCLUDING DATA, COMMUNICATION, OR TELEPHONE WIRING). ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED TO MATCH SURROUNDING CONDITIONS.
- 21. PANELBOARD CABINETS SHALL NOT BE USED FOR OTHER PURPOSES THAN CIRCUIT BREAKER INSTALLATIONS AND DISTRIBUTION POINTS, AND SHALL NOT BE USED AS A JUNCTION OR PULLBOX.
- 22. ALL UNUSED OUTLET BOXES THAT ARE TO REMAIN SHALL BE PROVIDED WITH

MATCHING BLANK COVERS.

- 23. ALL RACEWAYS WHICH ARE EXPOSED AS A RESULT OF NEW WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- 24. EXISTING RACEWAYS THAT ARE NOT BEING REUSED SHALL BE REMOVED BACK TO THE NEAREST JUNCTION OR PULLBOX, AND THE OPENINGS BLANKED. ANY CONDUITS PENETRATING MASONRY SURFACES SHALL BE CUT INTO SURFACE, PATCHED, AND PAINTED TO MATCH SURROUNDINGS.
- 25. DISCONNECT, RELOCATE OR REMOVE ELECTRICAL INSTALLATIONS AND EQUIPMENT AS INDICATED BY PLANS AND AS REQUIRED BY CHANGES IN CONSTRUCTION. WHERE EXISTING ELECTRICAL INSTALLATIONS INTERFERE WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE NEW INSTALLATIONS SHALL BE RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS. DETERMINE AND COORDINATE ALL EQUIPMENT LOCATIONS PRIOR TO INITIAL ROUGH—IN.
- 26. DISCONNECT AND RELOCATE/RECONNECT ANY ELECTRICAL LINES, BRANCH CIRCUITS, DEVICES (INCLUDING FIRE ALARM DEVICES), ETC. AND REPAIR PULL BOXES THAT MAY BE DISTURBED DURING THIS RENOVATION. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THE CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION AT NO COST TO OWNER. IF ANY EQUIPMENT TO REMAIN IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED WITH NEW (WITH NO COST APPLIED TO OWNER).
- 27. FOR EXISTING PANELS MODIFIED AS PART OF THIS PROJECT, E.C. SHALL TEST AND KEEP ALL EXISTING WORKING CIRCUIT BREAKERS AND SHALL USE THEM FOR NEW EQUIPMENT, DEVICES, LIGHTING, AND/OR SPARES. E.C. SHALL REPLACE NON-WORKING BREAKERS WITH NEW "IN KIND" BREAKERS. PROVIDE BLANK COVERS/COVERPLATES FOR ALL EXPOSED CIRCUIT BREAKER SPACES (THOSE WITHOUT INSTALLED CIRCUIT BREAKERS; EXPOSED BUS BARS) FOR PERSONNEL PROTECTION.
- 26. ALL MATERIALS AND EQUIPMENT TO BE DEMOLISHED ARE TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL MATERIALS IN ACCORDANCE WITH LOCAL AND FEDERAL LAWS. ALL MATERIALS THAT ARE CONSIDERED TO BE RECYCLABLE ARE TO BE RECYCLED ACCORDINGLY BY THE CONTRACTOR.
- 27. REMOVAL OF BRANCH CIRCUITS IN ASSOCIATED PANELS SHALL BE COORDINATED WITH THE REMOVAL OF EQUIPMENT IN SPECIFIED AREA. REFER TO RENOVATION PLANS AND ELECTRICAL PANEL SCHEDULES FOR NEW CIRCUITING ARRANGEMENT. ANY WIRING OR CIRCUITS BEING REVISED SHALL MEET MINIMUM WIRE SIZES AS INDICATED ON DRAWINGS. ELECTRICAL CONTRACTOR SHALL REMOVE WIRING/CONDUIT BACK TO SOURCE FROM UNUSED OR ABANDONED CIRCUITS, LABEL CIRCUIT BREAKER AS "SPARE", AND LEAVE IN THE "OFF" POSITION.
- 28. EXISTING PANELBOARD DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE REPLACED WITH NEW "TYPED" DIRECTORIES, TO ACCURATELY REFLECT THE BRANCH CIRCUIT WIRING MODIFICATIONS AND EXISTING CONDITIONS.

#### GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE CONSTRUCTION
   MANAGER/GENERAL CONTRACTOR AND ALL OTHER DISCIPLINES INVOLVED IN THIS
  - 1.1. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS AND APPLICABLE SHOP DRAWINGS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.
  - 1.2. VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, VOICE/DATA DEVICES AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH—IN. IN CENTERING OUTLETS AND LOCATION BOXES, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
  - 1.3. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECTURAL AND/OR ENGINEERING PLANS AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- 2. THE CONDUITS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THEY SHOW THE GENERAL ARRANGEMENT AND SIZE OF THE CONDUITS. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR INTERFERENCE THAT MAY BE ENCOUNTERED. CONTRACTOR IS RESPONSIBLE FOR ROUTING ALL CONDUIT IN THE MOST EFFICIENT MANNER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 3. ALL CONTRACTOR SUPPLIED MATERIALS SHALL BE NEW AND UL APPROVED (OR APPROVED BY ANOTHER NATIONALLY RECOGNIZED ORGANIZATION).
- 4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS NOT PERMITTED.
- 5. UNLESS OTHERWISE STATED, ALL ABOVE GROUND WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE FOR ELECTRIC SERVICES. ALL CONDUIT BENDS SHALL BE OF THE LONG RADIUS TYPE. ALL OUTDOOR WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE. ALL MOTORS AND TRANSFORMERS SHALL HAVE FLEXIBLE CONNECTIONS TO MINIMIZE VIBRATION. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. ALL WIRING SHALL BE RUN CONCEALED IN CONDUIT UNLESS SPECIFIED OTHERWISE.
- 7. CONTRACTOR SHALL USE TRAPEZE TO SUPPORT MULTIPLE CONDUITS FROM BUILDING
- 8. SECURE ALL SUPPORTS TO BUILDING STRUCTURE BY STEEL FOR VERTICAL SUPPORT AND BY MEANS OF TOGGLE BOLTS ON HOLLOW MASONRY UNITS, EXPANSION SHIELDS IN CONCRETE OR BRICK. MACHINE SCREWS ON METAL SURFACE, AND WOOD SCREWS ON WOOD CONSTRUCTION. NAILS, RAWL OR WOOD PLUGS NOT PERMITTED. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUITS NOT MORE THAN 10 FT. APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- 9. ALL CONDUIT INSTALLATIONS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION TYPE FITTINGS AS REQUIRED. NOTE: FOR THE EXACT LOCATIONS OF EXPANSION JOINTS, SEE OWNER FOR EXISTING STRUCTURAL DRAWINGS.
- 10. ALL UNDERGROUND CONDUITS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER
- OR GASES.

  11. PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY SHALL BE INSTALLED WITHIN 6 IN. OF STEAM OR HO

LEAST 2 IN. FROM PIPE COVER.

12. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10 FT IN WHICH WIRING IS NOT

WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT

- 13. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.
- 14. ALL WIRING SHALL BE STRANDED COPPER CONDUCTOR. MINIMUM SIZE #12 AWG (POWER) & 14 AWG (CONTROL), 600 VOLT INSULATION THW/THWN. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
- 15. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REGARDING ELECTRODE, GROUNDING AND BONDING REQUIREMENTS FOR SERVICE, EQUIPMENT AND ENCLOSURES. ALL EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE GROUNDING CONDUCTOR.
- 16. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- 17. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. IN COMMON BOXES, PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL
- WIRING.

  18. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
- CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

19. WIRE COLOR CODING: PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE,

- 20. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F.
- 21. PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- 22. ALL SWITCHES SHALL BE MOUNTED AT 48" (TOP OF THE TOGGLE SWITCH) ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED. ALL RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- 23. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES.
- 24. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
- 25. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.
- 26. SUPPORT JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
- 27. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT AND/OR ENGINEER PRIOR TO INSTALLATION.
- 28. FIRESTOP SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED WALLS.29. PANELBOARDS, DISCONNECTS, AUTOMATIC TRANSFER SWITCHES, ETC., SHALL BE
- MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE, TO THE TOP OF THE FINISHED FLOOR SHALL NOT EXCEED 6'-6" (MAX.).

  30. ALL PANELS SHALL BE BALANCED AS EVENLY AS POSSIBLE ACROSS PHASES. ALL
- PANELS SHALL HAVE PERMANENT DIRECTORIES. CIRCUIT CHANGES SHALL BE REFLECTED ON "AS BUILT" DRAWINGS.

  31. ALL SURFACE MOUNTED PANELS AND PANELBOARDS INSTALLED ON THE INSIDE FACE OF EXTERIOR WALLS, ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED AS DAMP.

SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE

ENCLOSURE AND THE FACE OF THE WALL.

- 32. ALL NEW ELECTRICAL PANELS SHALL BE LOCKABLE. PROVIDE OWNER WITH TWO (2)
- 33. MCC OR PANEL COMPARTMENT DESIGNATIONS ARE AS INDICATED BELOW:
   33.1. BLANK NOT INTENDED FOR USE, COVERPLATE ONLY.
   33.2. SPACE CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN RANGE SHOWN.
   33.3. SPARE CONTAINS A COMPLETE BREAKER OR STARTER INSTALLED, SIZE AS INDICATED, AVAILABLE FOR FUTURE USE.
- 34. EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.
- 35. ALL DEVICES SHALL BE ADEQUATELY IDENTIFIED WITH PERMANENT LABELS OR TAGS. WIRING SHALL BE IDENTIFIED AS TO PHASING AND CONDUCTOR IDENTIFICATION.
- 36. CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRIC CODE.
- 37. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE NEUTRAL & GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- 38. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.
- 39. ALL TEMPORARY WIRING, LIGHTING AND POWER CIRCUITS AND DEVICES SHALL BE INSTALLED TO MEET THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE,

FAULT INTERRUPTER OR OTHER APPROVED AND RECOGNIZED INTERRUPTING SENSORS.

- LOCAL, STATE AND FEDERAL REQUIREMENTS FOR SUCH TEMPORARY INSTALLATION.

  40. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT RECEPTACLES USED FOR HAND TOOLS AND OTHER MISCELLANEOUS EQUIPMENT SHALL BE INSTALLED WITH GROUND
- 41. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS. OPENINGS SHALL ALSO BE SEALED TO PREVENT WATER SEEPAGE WHERE APPLICABLE. ALL OPENINGS SHALL BE COORDINATED WITH OTHER CRAFTS TO PREVENT INTERFERENCE AND OBSTRUCTION. PENETRATIONS THROUGH FIRE WALLS MUST BE MADE BY AN APPROVED THROUGH
- 42. EXISTING FIREPROOFING PENETRATED OR DAMAGED DURING WORK SHALL BE BROUGHT BACK TO EXISTING RATING UPON COMPLETION OF WORK.
- 43. THE COMPLETE INSTALLATION SHALL BE TESTED AT COMPLETION OF WORK, TO BE FREE OF GROUNDS AND SHORT CIRCUITS CONDITIONS. ALL INTERLOCK CIRCUITS SHALL BE TESTED TO VERIFY CORRECT OPERATION OF EACH DEVICE. ALL ROTATING EQUIPMENT SHALL BE JOGGED TO VERIFY CORRECT ROTATION BEFORE PERMANENTLY

PENETRATION FIRESTOP SYSTEM.

SUBMISSION OF BID.

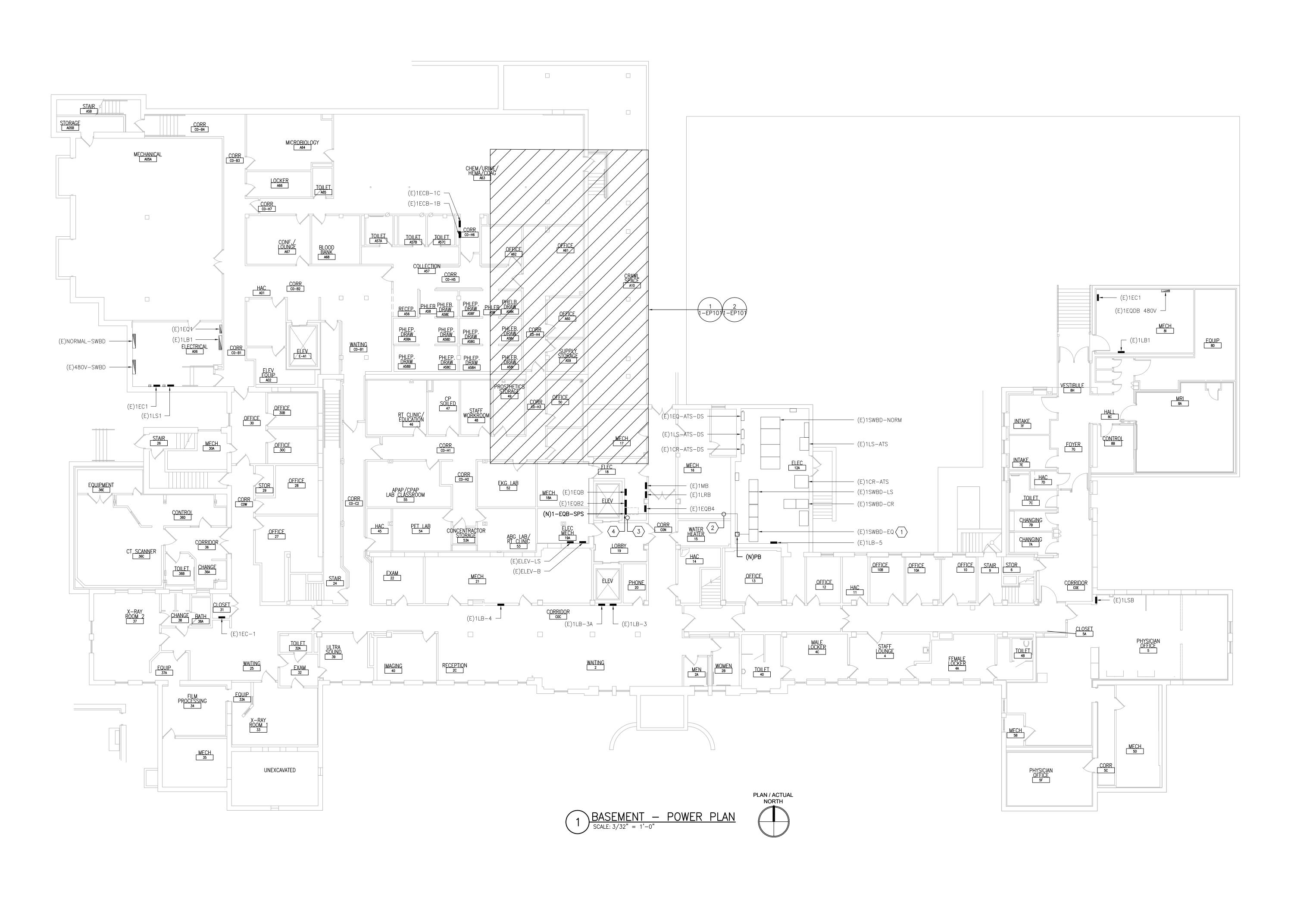
WIRED BY A LICENSED ELECTRICIAN.

- 44. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK AND SHUTDOWNS OF EQUIPMENT WITH FACILITY.
- 45. EXCAVATION FOR UNDERSLAB OR UNDERGROUND INSTALLATION OF CONDUITS SHALL BE APPROACHED WITH EXTREME CAUTION SO AS NOT TO DAMAGE EXISTING UNDERGROUND PIPING, WIRING AND CONDUITS.
- 46. ELECTRICAL CONTRACTOR SHALL PROVIDE CONSTRUCTION MANAGER/GENERAL CONTRACTOR A SURFACE PENETRATING RADAR SURVEY FOR THE PURPOSE OF LOCATING ALL UNDERGROUND (OR IN-SLAB) CONDUITS, PIPING, UTILITIES, STRUCTURAL MEMBERS, ETC. IN ALL AREAS WHERE SLAB CUTTING MAY OCCUR (FOR THE PURPOSES OF ELECTRICAL WORK REQUIRED). SURVEY MUST BE COMPLETED TWO WEEKS PRIOR TO CUTTING OF ANY SLAB. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY (AND ALL ASSOCIATED COSTS) OF REPAIRING AND/OR REPLACING ANY SYSTEMS DAMAGED BY THE SLAB CUTTING PROCEDURES, WHEN PREVENTATIVE MEASURES WERE NOT CONSIDERED OR UTILIZED. COST FOR SURVEY(S) SHALL BE SUBMITTED AS A SEPARATE LINE ITEM PRICE (WHEN APPLICABLE).
- 47. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, MOCP, REQUIRED FOR ALL EQUIPMENT PROVIDED BY OTHER CONTRACTORS PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS, CONDUIT, ETC. VERIFY RATINGS WITH FINAL, APPROVED CONTRACTOR EQUIPMENT SUBMITTALS AND EQUIPMENT NAMEPLATES DIRECTLY WITH THE PROVIDING CONTRACTOR.
- 48. UNLESS NOTED OTHERWISE WITHIN THE PROJECT CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, ALL NEW ELECTRICAL DEVICES INDICATED ON THE ELECTRICAL PLANS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR (EXAMPLE: DISCONNECT SWITCHES, CIRCUIT BREAKERS, WIRING, CONDUIT, ETC.). VARIABLE FREQUENCY DRIVES, VFD CONTROL PANELS, DISCONNECT SWITCHES, COMBINATION MOTOR STARTER/DISCONNECTS AND ASSOCIATED COMPONENTS FOR NEW EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE CORRESPONDING CONTRACTOR
- 49. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE ELECTRICAL PLANS AND SPECIFICATIONS, AS WELL AS ALL RELATED PROJECT PLANS AND SPECIFICATIONS FROM OTHER DISCIPLINES, TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE AND COORDINATED RESPONSIBILITIES. CONFLICT OF INTENDED RESPONSIBILITIES SHALL BE BROUGHT TO ENGINEERS ATTENTION, PRIOR TO

AND INSTALLED BY THE ELECTRICAL CONTRACTOR (WHEN NOT FACTORY INSTALLED).

- 50. DURING THE COURSE OF CONSTRUCTION, COORDINATION AND FINAL TURNOVER, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO WORK CLOSELY WITH ALL CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- 51. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH COULD REQUIRE ADDITIONAL ELECTRICAL WORK, (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS.
- 52. ALL MECHANICAL/PLUMBING EQUIPMENT CONTROLS RATED 10V AND ABOVE SHALL BE

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE **Project Title Project Number Drawing Title ENGINEER OF RECORD** MILLER-REMICK LLC WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE Office of 656-18-300 PROFESSIONAL ENGINEER 100% CONSTRUCTION **UPGRADE SPS HVAC & ELECTRICAL** PROFESSIONAL ENGINEER Miller-Remick LLC spyose DOCUMENTS **ENVIRONMENTAL CONTROLS** Construction **Building Number** 1, 2, 3, 28, 29, 49, 50, 5 NOTES NOT FOR CONSTRUCTION and Facilities MEP Engineers + Architects 111, 116 A Service Disabled Veteran Owned 1173 Research Way 701 Forest Ave Portland, ME 04103 Approved: Project Director **Drawing Number** Management Forest, VA 24551 (207) 828-4511 1010 KINGS HIGHWAY SOUTH ST. CLOUD VA MEDICAL CENTER, MI 1-866-267-6839 CHERRY HILL, NEW JERSEY 08034 **FULLY SPRINKLERED** PHONE: (856)429-4000 E-002 Checked FAX: (856)429-5002 U.S. Department of Veterans Affairs SGC RAC MR PROJECT NO: 0376-0011 DATE DESCRIPTION



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VA FORM 08-6231

DESCRIPTION

### **GENERAL SHEET NOTES:**

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- 4. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED
- FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES. 5. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE
- 6. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.

DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.

- 7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE
- RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- 8. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

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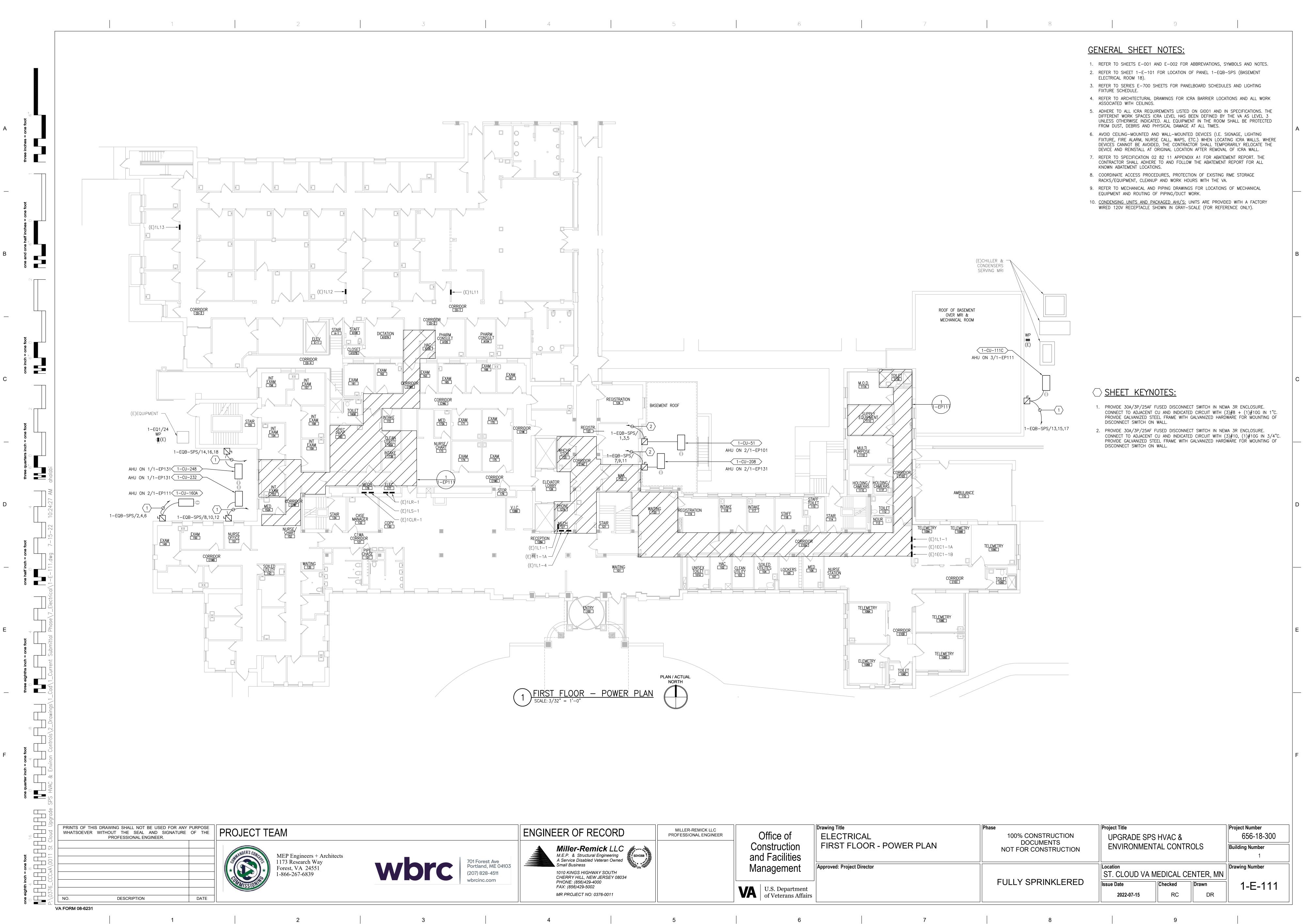
- 1. EXISTING SWITCHBOARD BY SIEMENS SERIES 6 CAT NO. FC I, 208/120V, 3 PHASE, 4 WIRE, S.O. 17-19061-3. PROVIDE 200A/3P BREAKER IN EXISTING SPACE TO FEED NEW PANEL 1-EQB-SPS. BREAKER SHALL BE COMPATIBLE WITH SWITCHBOARD, AIC RATING TO MATCH EXISTING. PROVIDE ALL REQUIRED MOUNTING HARDWARE, BUS FINGERS, LUG KIT, FILLER PLATE ETC. PROVIDE RED ENGRAVED LABEL WITH WHITE LETTERS "1-EQB-SPS".
- 2. APPROXIMATE ROUTING OF NEW CONDUIT AND FEEDER (4)#3/0 + (1)#6G IN 2"C. MAKE ALL FINAL CONNECTIONS.
- 3. RELOCATE EXISTING (2) 3/4"C WITH WIRING TO ACCOMMODATE NEW CONDUITS FROM FLOOR ABOVE. RELOCATE EXISTING SPRINKLER PIPE (SERVING ELEVATOR SHAFT) TO ACCOMMODATE NEW PANEL. CORE DRILL CEILING FOR NEW CONDUITS FROM FLOOR
- 4. PROVIDE NEW PANEL WITH RED ENGRAVED LABEL WITH WHITE LETTERS "1-EQB-SPS". LABEL SHALL INCLUDE VOLTAGE, AMPERAGE, AIC RATING AND FEED SOURCE. INSTALL PANEL SO AS TO AVOID VERTICAL SPRINKLER PIPE. COMPLY WITH NEC REQUIREMENTS FOR WORKING SPACE AND DEDICATE EQUIPMENT SPACE.

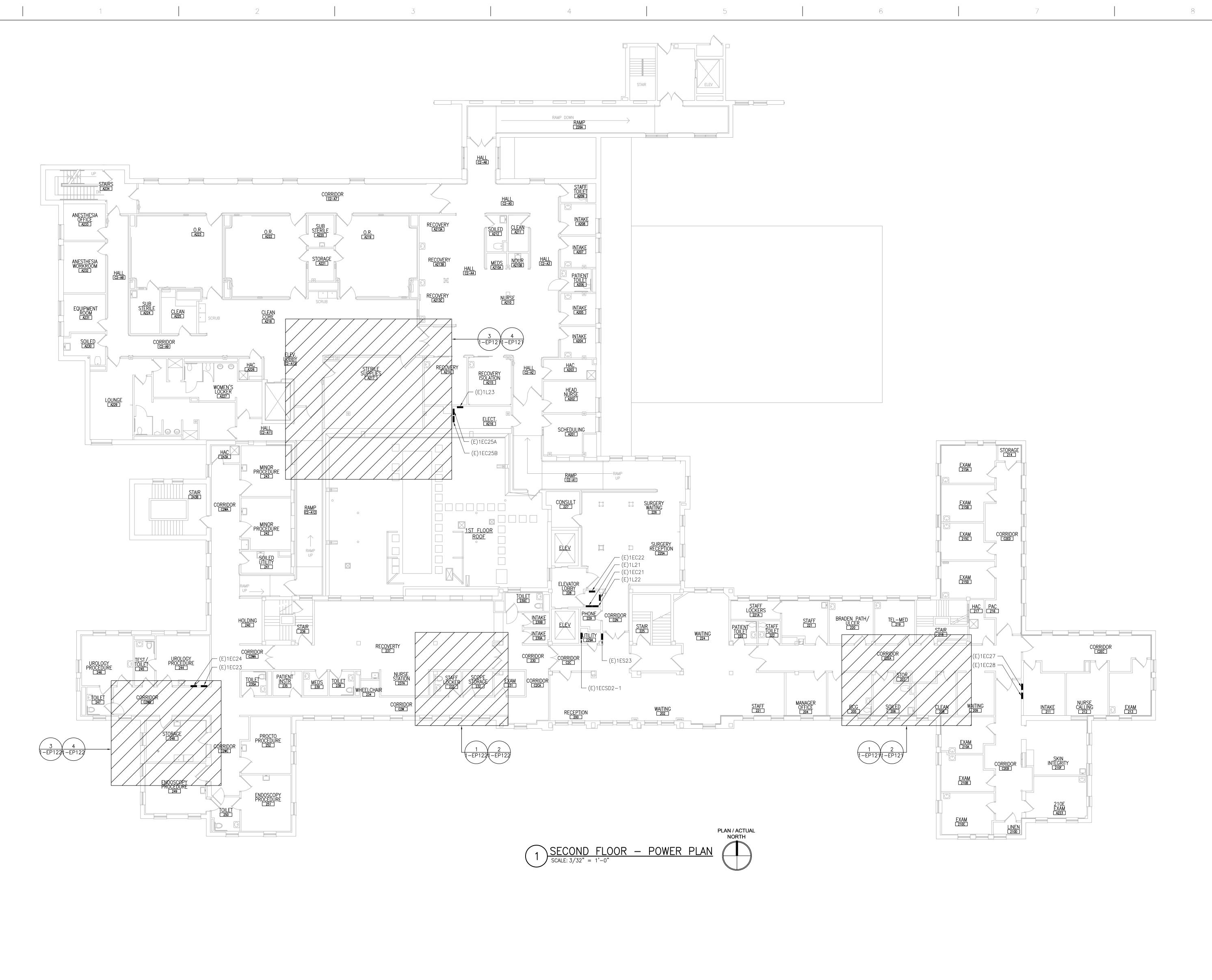
Project Title PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE Drawing Title Project Number ENGINEER OF RECORD MILLER-REMICK LLC Office of ELECTRICAL 656-18-300 100% CONSTRUCTION PROFESSIONAL ENGINEER UPGRADE SPS HVAC & PROFESSIONAL ENGINEER. DOCUMENTS Miller-Remick LLC

M.E.P. & Structural Engineering

A Service Disabled Veteran Owned

Small Rusiness BASEMENT - POWER PLAN Construction **ENVIRONMENTAL CONTROLS Building Number** NOT FOR CONSTRUCTION and Facilities MEP Engineers + Architects 1173 Research Way 701 Forest Ave Portland, ME 04103 Approved: Project Director Management Drawing Number Forest, VA 24551 1-866-267-6839 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 (207) 828-4511 ST. CLOUD VA MEDICAL CENTER, MN **FULLY SPRINKLERED** PHONE: (856)429-4000 Checked 1-E-101 Drawn U.S. Department of Veterans Affairs FAX: (856)429-5002 RC DR MR PROJECT NO: 0376-0011 2022-07-15 DATE





ENGINEER OF RECORD

FAX: (856)429-5002

MR PROJECT NO: 0376-0011

701 Forest Ave Portland, ME 04103

(207) 828-4511

3

Miller-Remick LLC

M.E.P. & Structural Engineering

A Service Disabled Veteran Owned

Small Business

1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000

VA FORM 08-6231

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

DESCRIPTION

DATE

MEP Engineers + Architects 1173 Research Way

Forest, VA 24551 1-866-267-6839

# **GENERAL SHEET NOTES:**

Project Title

UPGRADE SPS HVAC &

2022-07-15

**ENVIRONMENTAL CONTROLS** 

ST. CLOUD VA MEDICAL CENTER, MN

Checked

RC

Drawn

DR

100% CONSTRUCTION

DOCUMENTS NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Drawing Title

**ELECTRICAL** 

Approved: Project Director

SECOND FLOOR - POWER PLAN

Office of

Construction

and Facilities

Management

U.S. Department of Veterans Affairs

MILLER-REMICK LLC PROFESSIONAL ENGINEER

5

Project Number

**Building Number** 

Drawing Number

656-18-300

1-E-121

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- 3. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST DERRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.

  4. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE
- DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.

  5. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL
- KNOWN ABATEMENT LOCATIONS.

  6. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE
- RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.

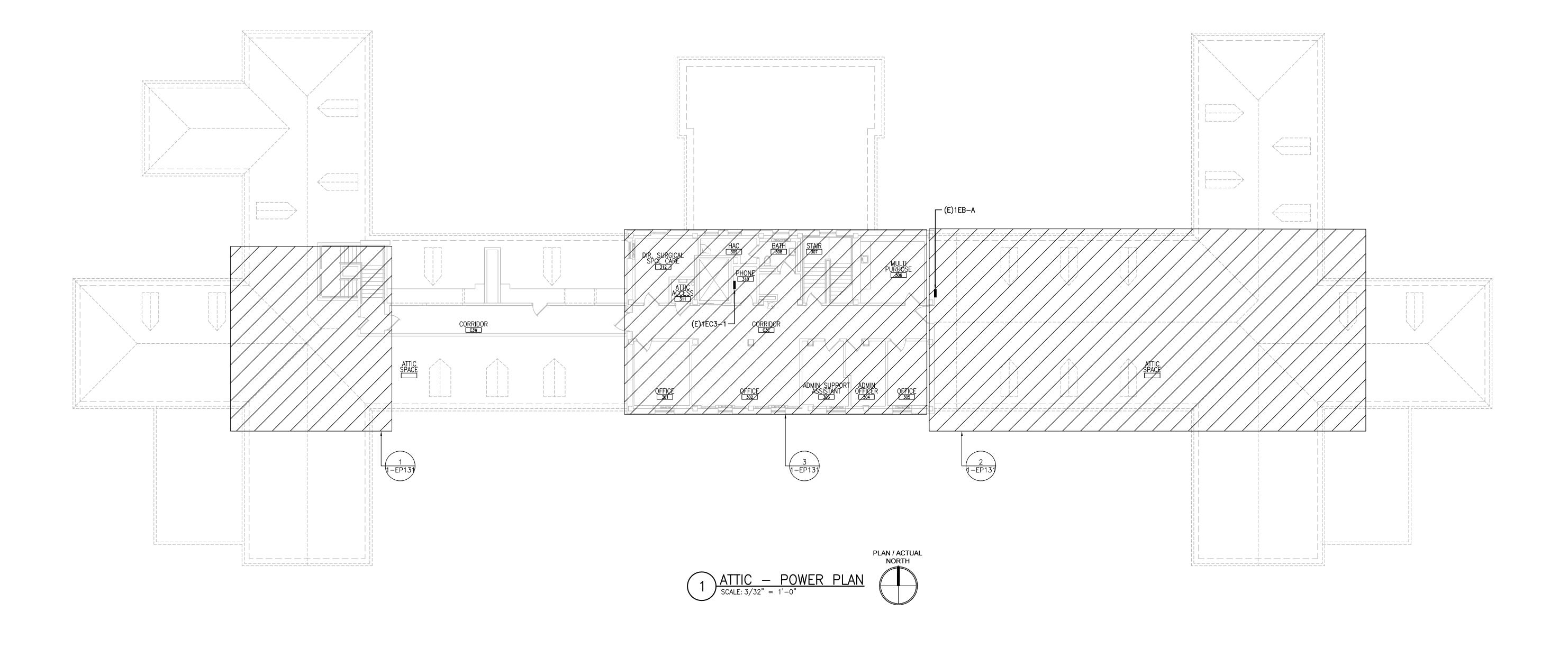
  7. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL

EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
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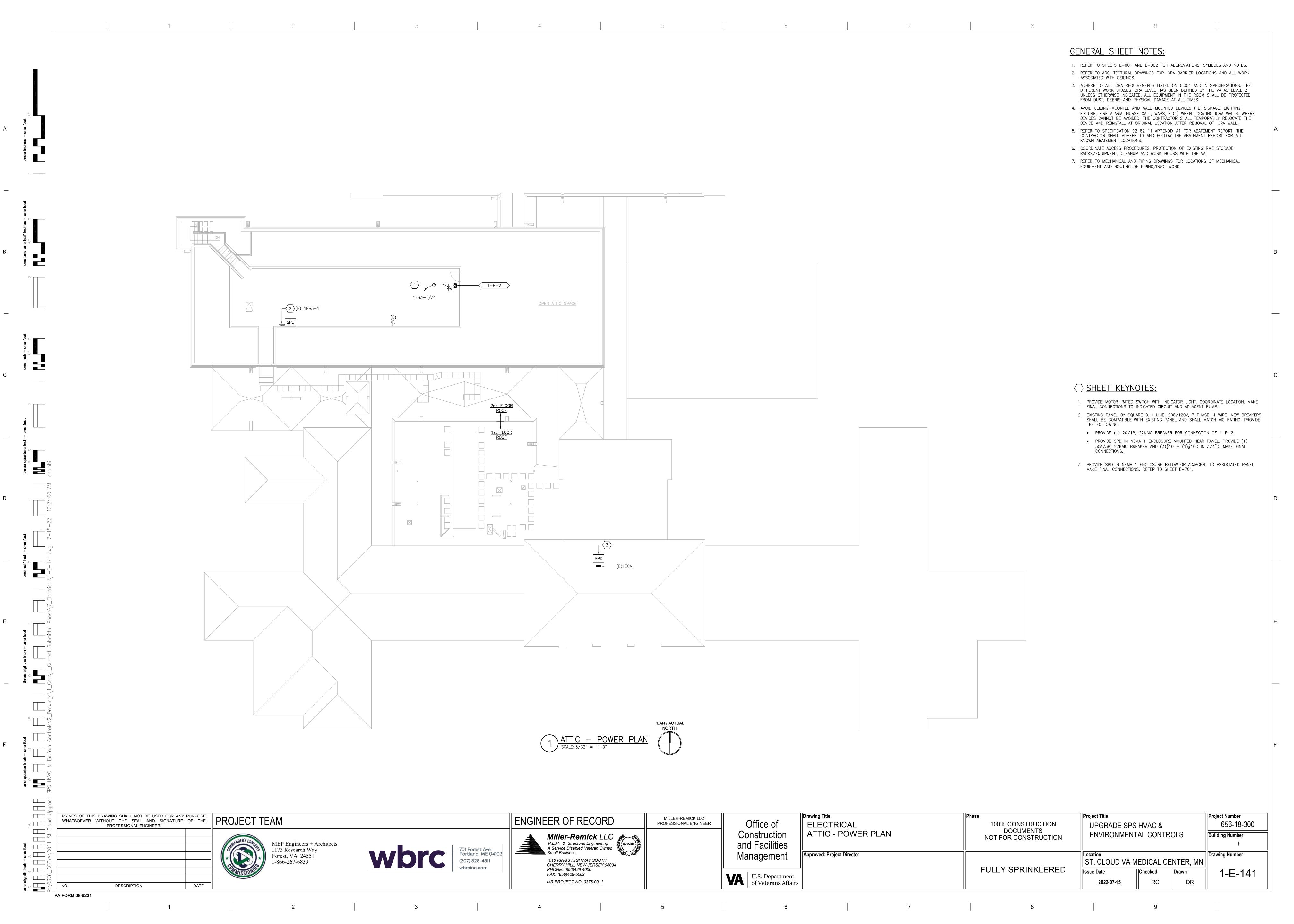


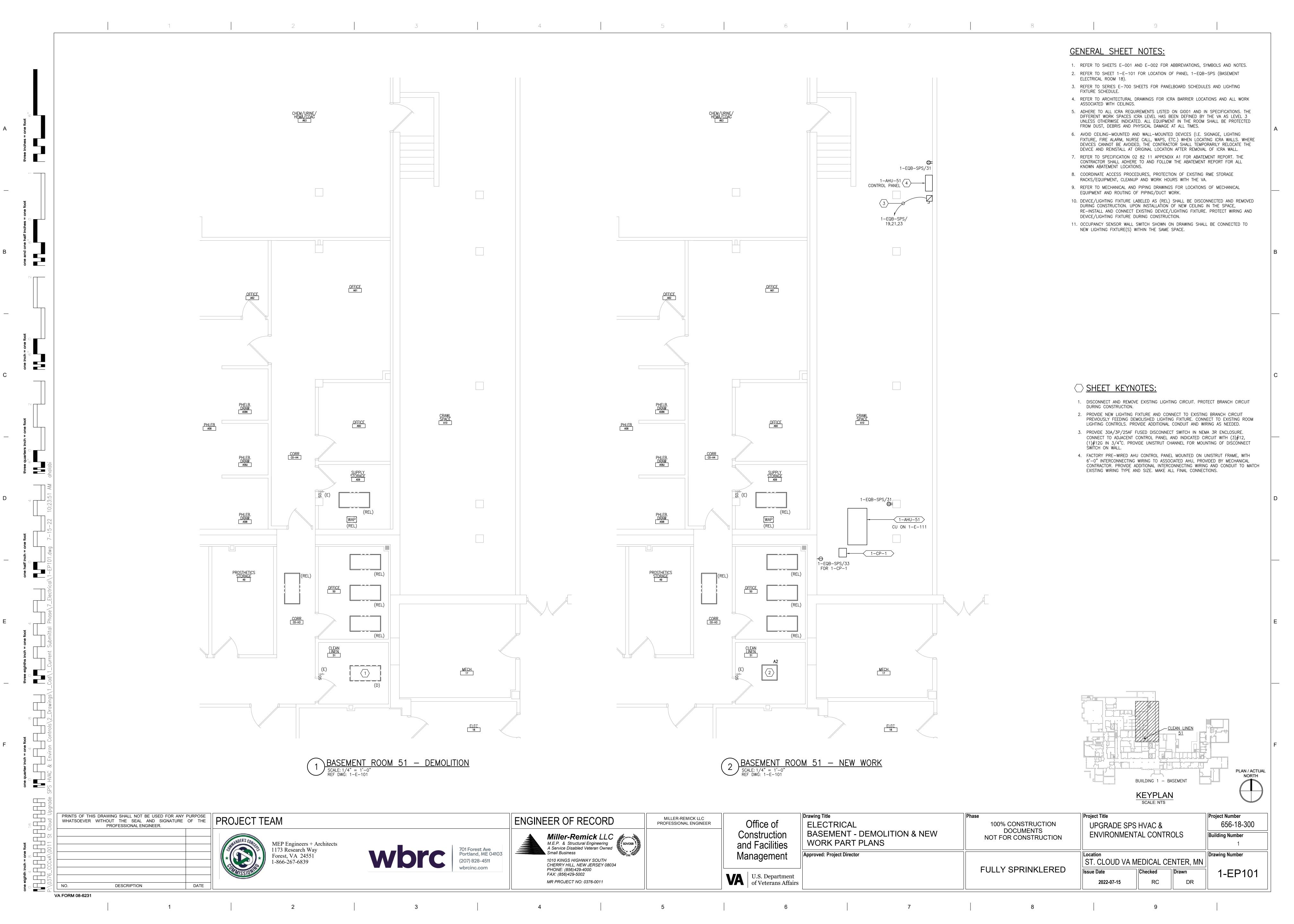
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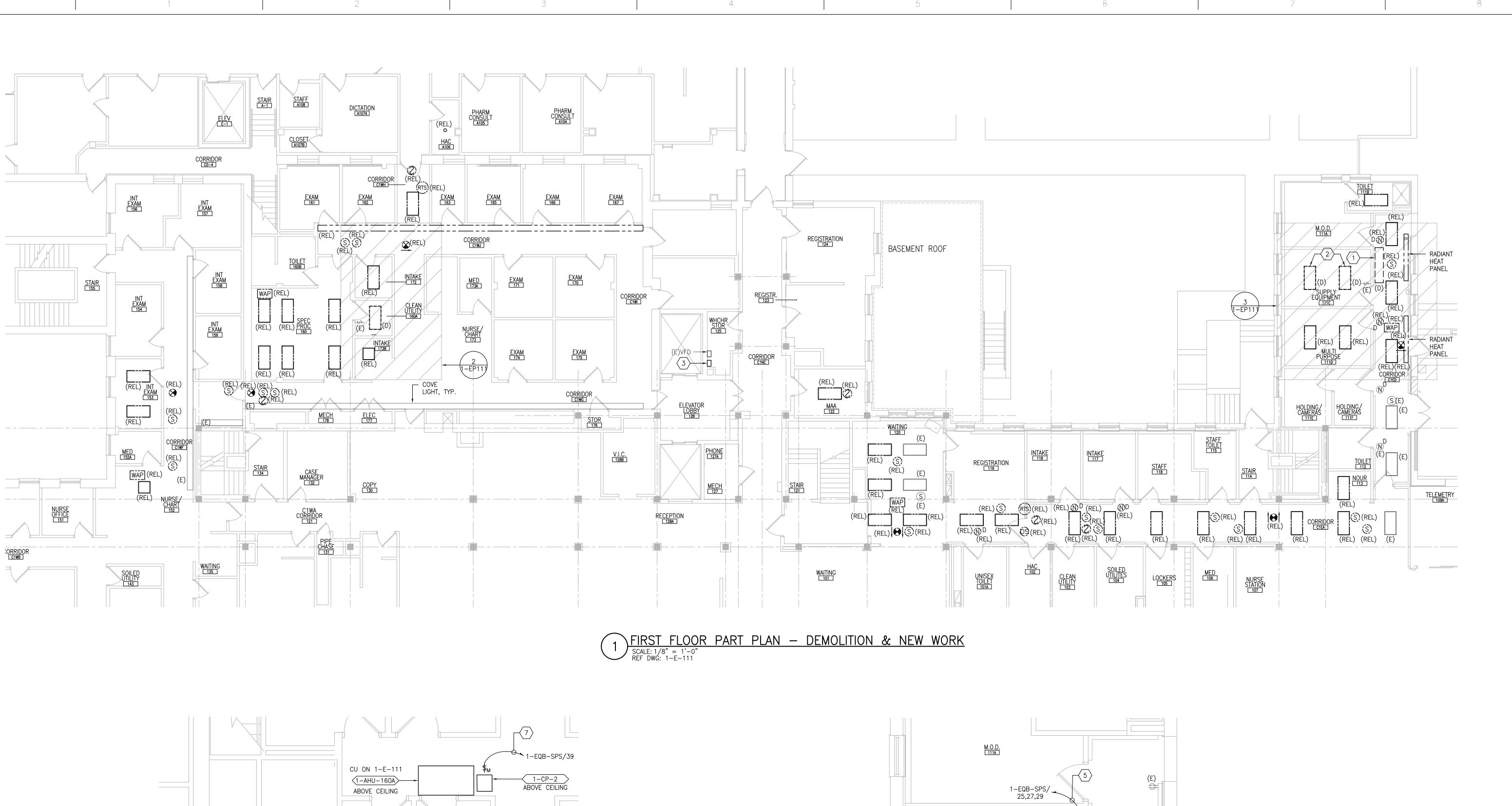
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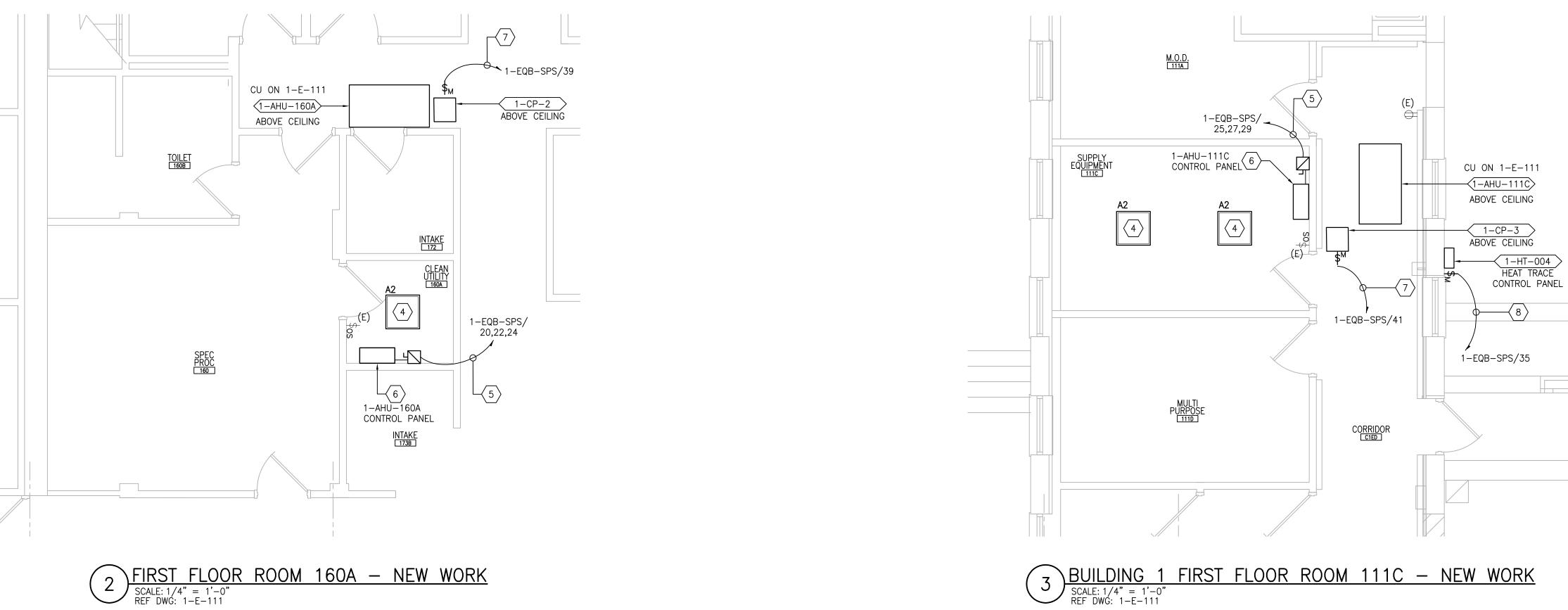
PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER. Project Title Project Number Drawing Title MILLER-REMICK LLC PROFESSIONAL ENGINEER ENGINEER OF RECORD Office of 656-18-300 **ELECTRICAL** 100% CONSTRUCTION UPGRADE SPS HVAC & DOCUMENTS NOT FOR CONSTRUCTION ATTIC - POWER PLAN Miller-Remick LLC

M.E.P. & Structural Engineering
A Service Disabled Veteran Owned
Small Business Construction **ENVIRONMENTAL CONTROLS Building Number** MEP Engineers + Architects 1173 Research Way Forest, VA 24551 1-866-267-6839 and Facilities 701 Forest Ave Portland, ME 04103 Approved: Project Director Management Drawing Number (207) 828-4511 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 ST. CLOUD VA MEDICAL CENTER, MN FULLY SPRINKLERED Checked Drawn 1-E-131 FAX: (856)429-5002 U.S. Department of Veterans Affairs RC DR MR PROJECT NO: 0376-0011 2022-07-15 DESCRIPTION DATE









FIRST FLOOR ROOM 160A — NEW WORK

SCALE: 1/4" = 1'-0"
REF DWG: 1-E-111

## **GENERAL SHEET NOTES:**

ASSOCIATED WITH CEILINGS.

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SHEET 1-E-101 FOR LOCATION OF PANEL 1-EQB-SPS (BASEMENT ELECTRICAL ROOM 18).
- 3. REFER TO SHEET 1-E-111 FOR LOCATION OF PANELBOARDS.
- 4. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING
- FIXTURE SCHEDULE. 5. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK
- 6. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED
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- 10. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

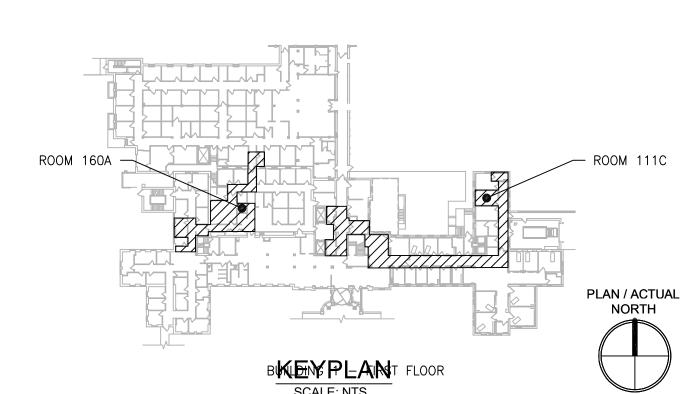
RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.

- 11. DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND
- DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION. 12. OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.
- 13. CONDENSING UNITS AND PACKAGED AHU'S: UNITS ARE PROVIDED WITH A FACTORY

WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

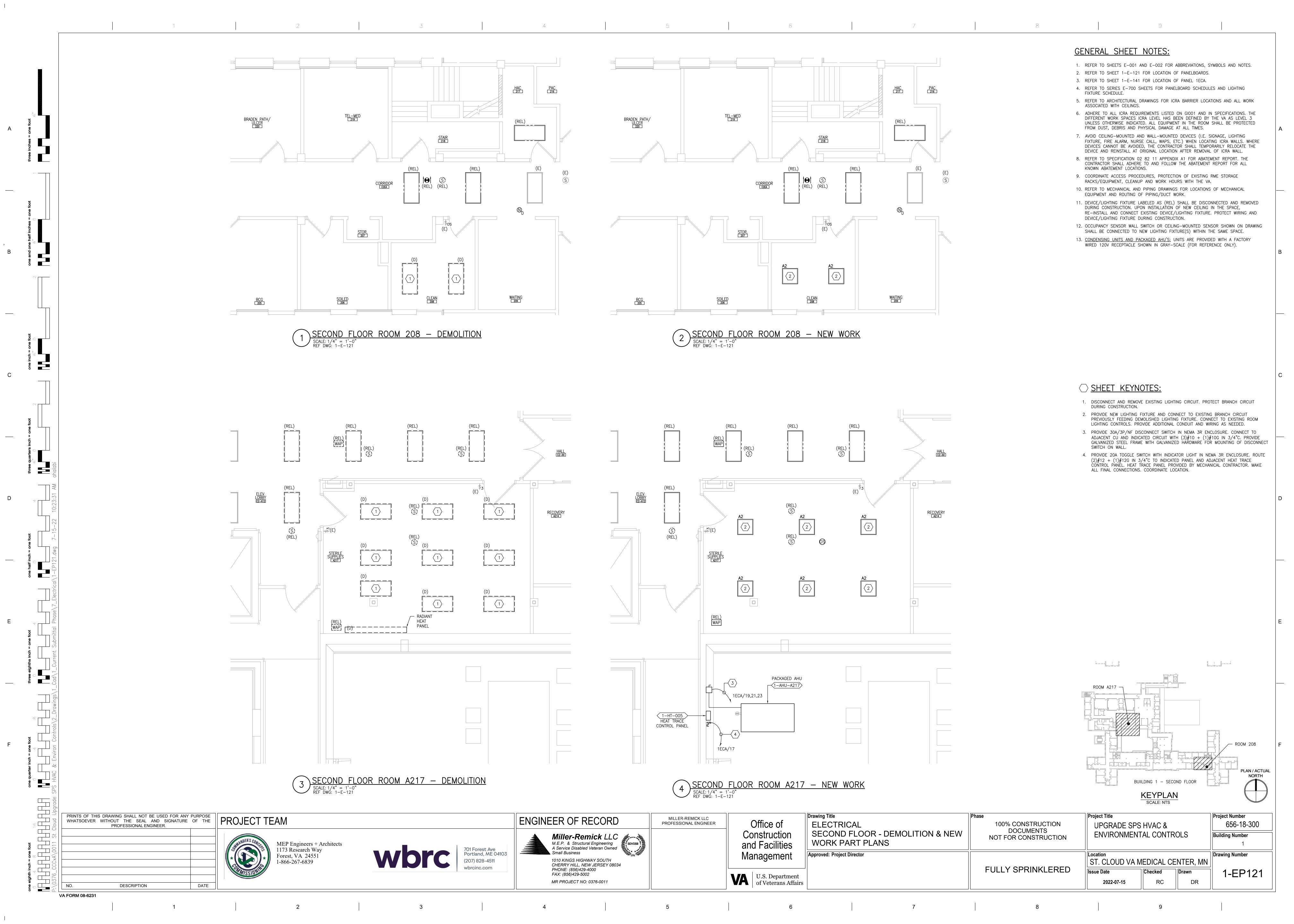
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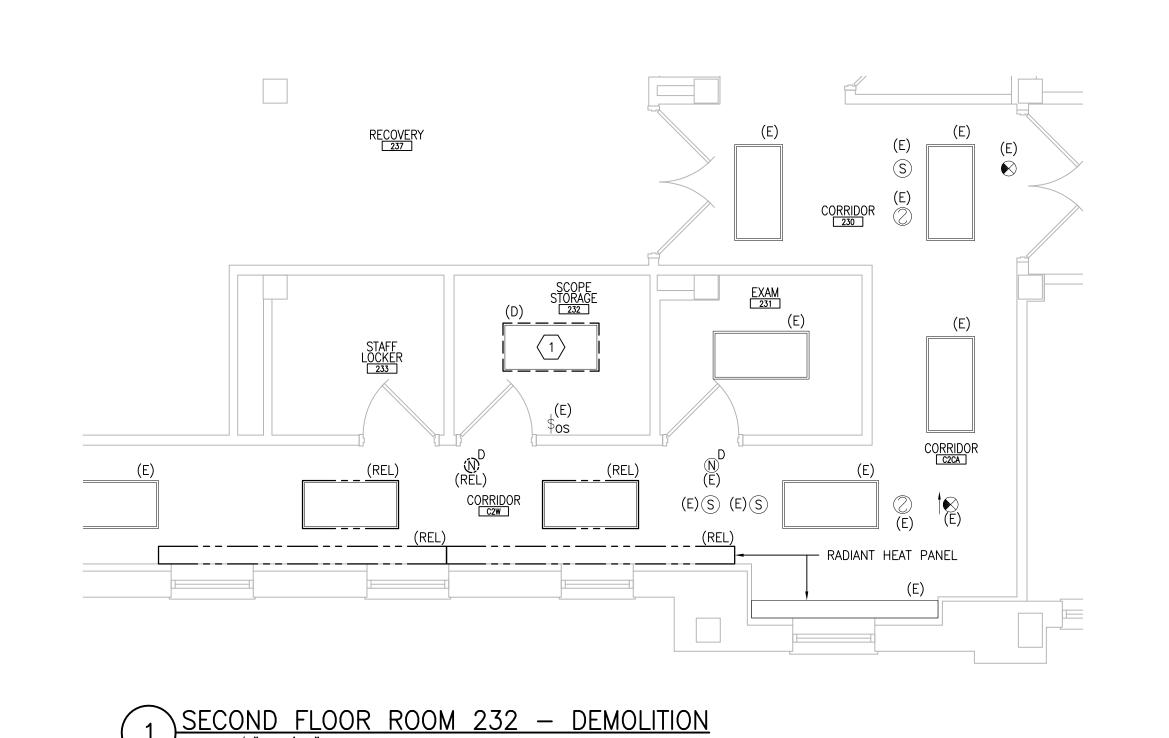
- REMOVE PORTION OF ABOVE—CEILING CABLE TRAY. PROVIDE J—HOOKS TO RE—SUPPORT CABLES PREVIOUS ROUTED IN REMOVED CABLE TRAY.
- 2. DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- 3. RELOCATE EXISTING DISCONNECT SWITCH TO OTHER SIDE OF EXISTING ADJACENT VFD. RE-ROUTE ASSOCIATED (3) 3/4"C, (1) 3/4" FMC AND ASSOCIATED WIRING. MAKE ALL FINAL CONNECTIONS. CORÉ DRILL FLOOR SLAB TO FEED NEW CIRCUITS DOWN TO PANEL 1-EQB-SPS IN BASEMENT.
- 4. PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- 5. PROVIDE 30A/3P/15AF FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#10, (1)#10G IN 3/4"C. PROVIDE UNISTRUT CHANNEL FOR MOUNTING OF DISCONNECT SWITCH ON WALL
- 6. FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6'-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL INTERCONNECTING WIRING AND CONDUIT TO MATCH EXISTING WIRING TYPE AND SIZE. MAKE ALL FINAL CONNECTIONS.
- 7. PROVIDE ABOVE-CEILING MOTOR-RATED SWITCH WITH INDICATOR LIGHT. ROUTE (2)#10 + (1)#10G IN 3/4"C TO INDICATED PANEL AND ADJACENT CONDENSATE PUMP. MAKE
- 8. PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE; MOUNT ON UNISTRUT FRAME. ROUTE (2)#12 + (1)#12G IN 3/4°C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE Drawing Title Project Title Project Number ENGINEER OF RECORD MILLER-REMICK LLC Office of 656-18-300 **ELECTRICAL** 100% CONSTRUCTION PROFESSIONAL ENGINEER UPGRADE SPS HVAC & PROFESSIONAL ENGINEER. DOCUMENTS FIRST FLOOR - DEMOLITION & NEW **ENVIRONMENTAL CONTROLS** Miller-Remick LLC

M.E.P. & Structural Engineering
A Service Disabled Veteran Owned
Small Business Construction **Building Number** NOT FOR CONSTRUCTION **WORK PART PLANS** and Facilities MEP Engineers + Architects 1173 Research Way 701 Forest Ave Portland, ME 04103 Management Approved: Project Director Drawing Number Forest, VA 24551 1-866-267-6839 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 (207) 828-4511 ST. CLOUD VA MEDICAL CENTER, MN **FULLY SPRINKLERED** PHONE: (856)429-4000 Checked 1-EP111 Drawn FAX: (856)429-5002 U.S. Department of Veterans Affairs PNL MR PROJECT NO: 0376-0011 MR 2022-07-15 DESCRIPTION DATE VA FORM 08-6231





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- RADIANT HEAT PANEL

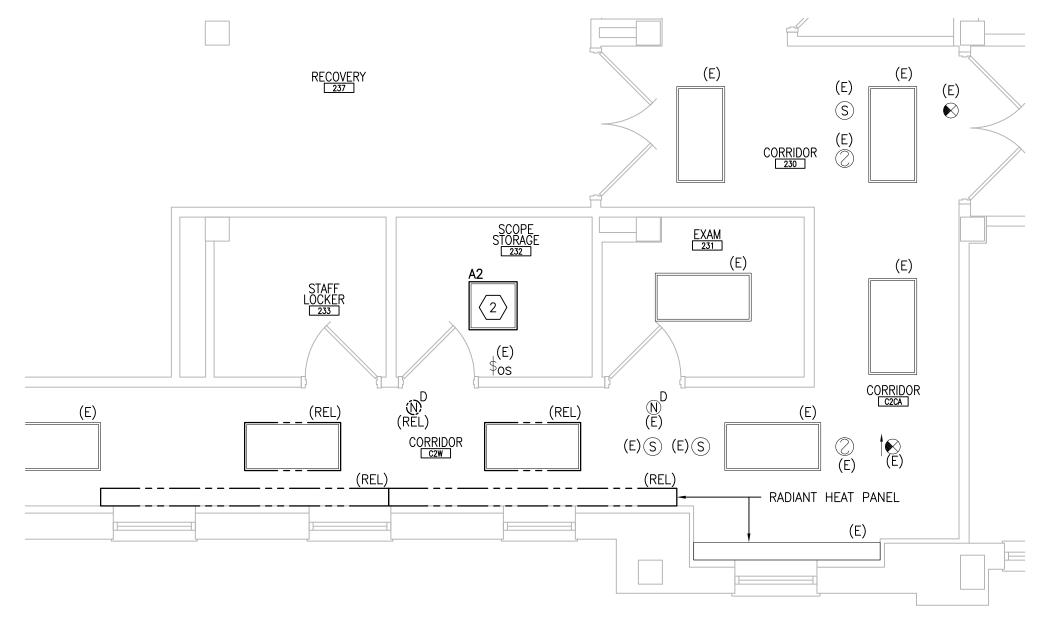
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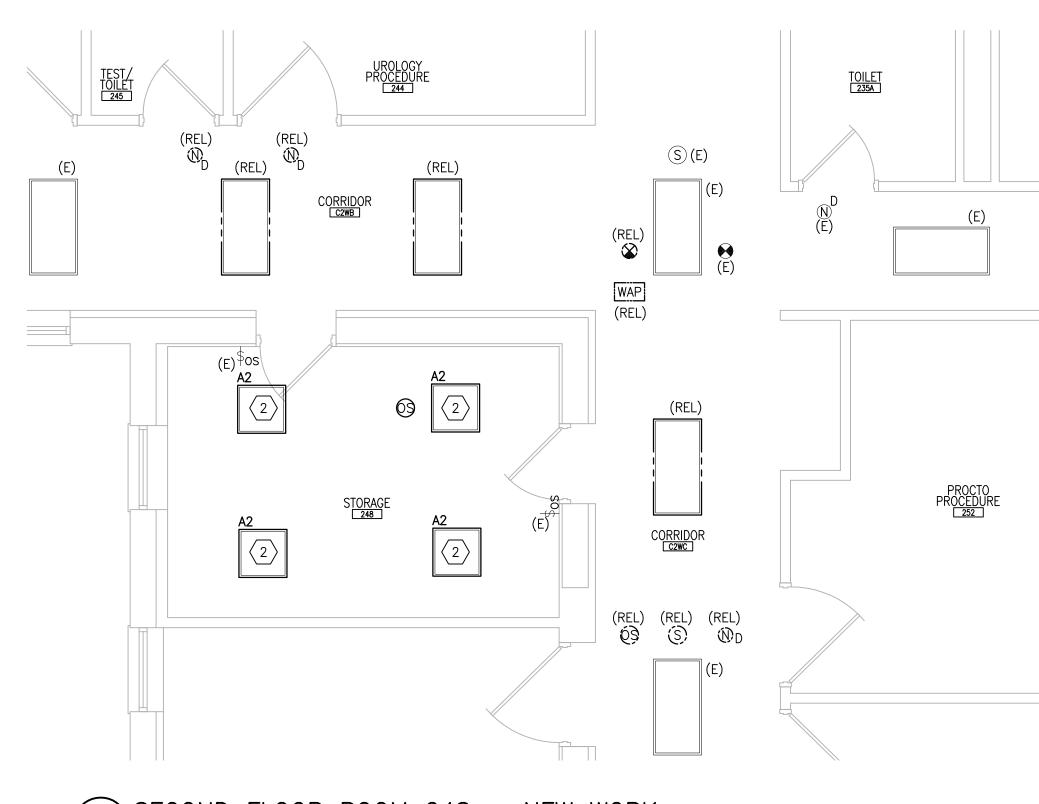
VA FORM 08-6231

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SECOND FLOOR ROOM 248 - DEMOLITION







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**GENERAL SHEET NOTES:** 

ASSOCIATED WITH CEILINGS.

KNOWN ABATEMENT LOCATIONS.

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.

3. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK

4. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED

FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL. 6. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL

5. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING

7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE

8. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL

9. DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE,

10. OCCUPANCY SENSOR SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING

RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND

RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.

EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

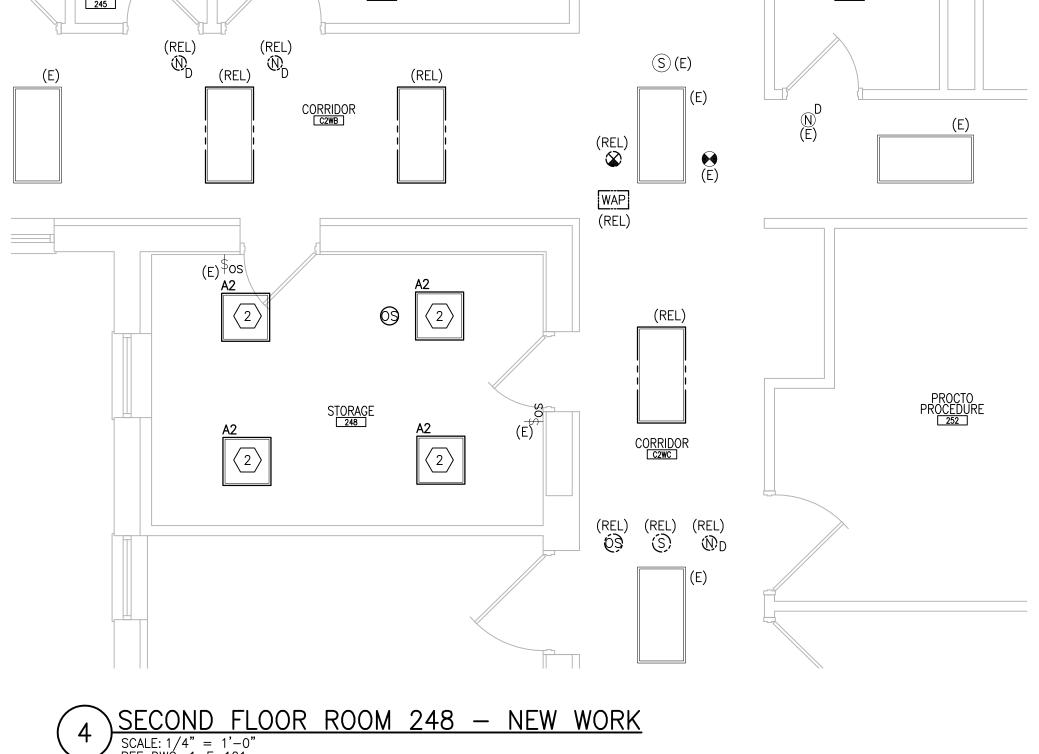
DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.

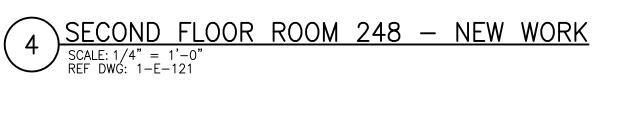
FIXTURE(S) WITHIN THE SAME SPACE.

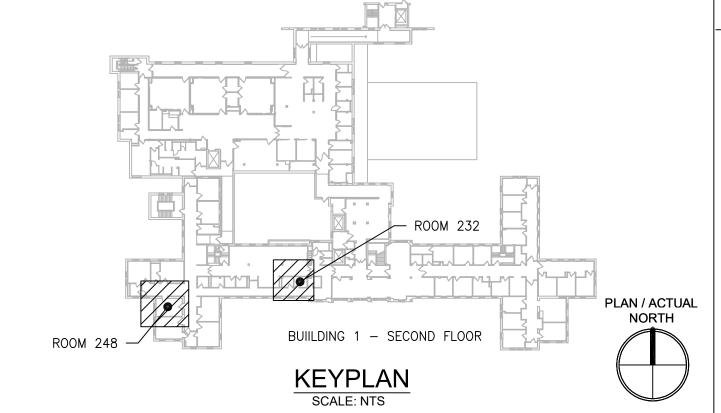
2. REFER TO SHEET 1-E-121 FOR LOCATION OF PANELBOARDS.

FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.

- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- 2. PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.

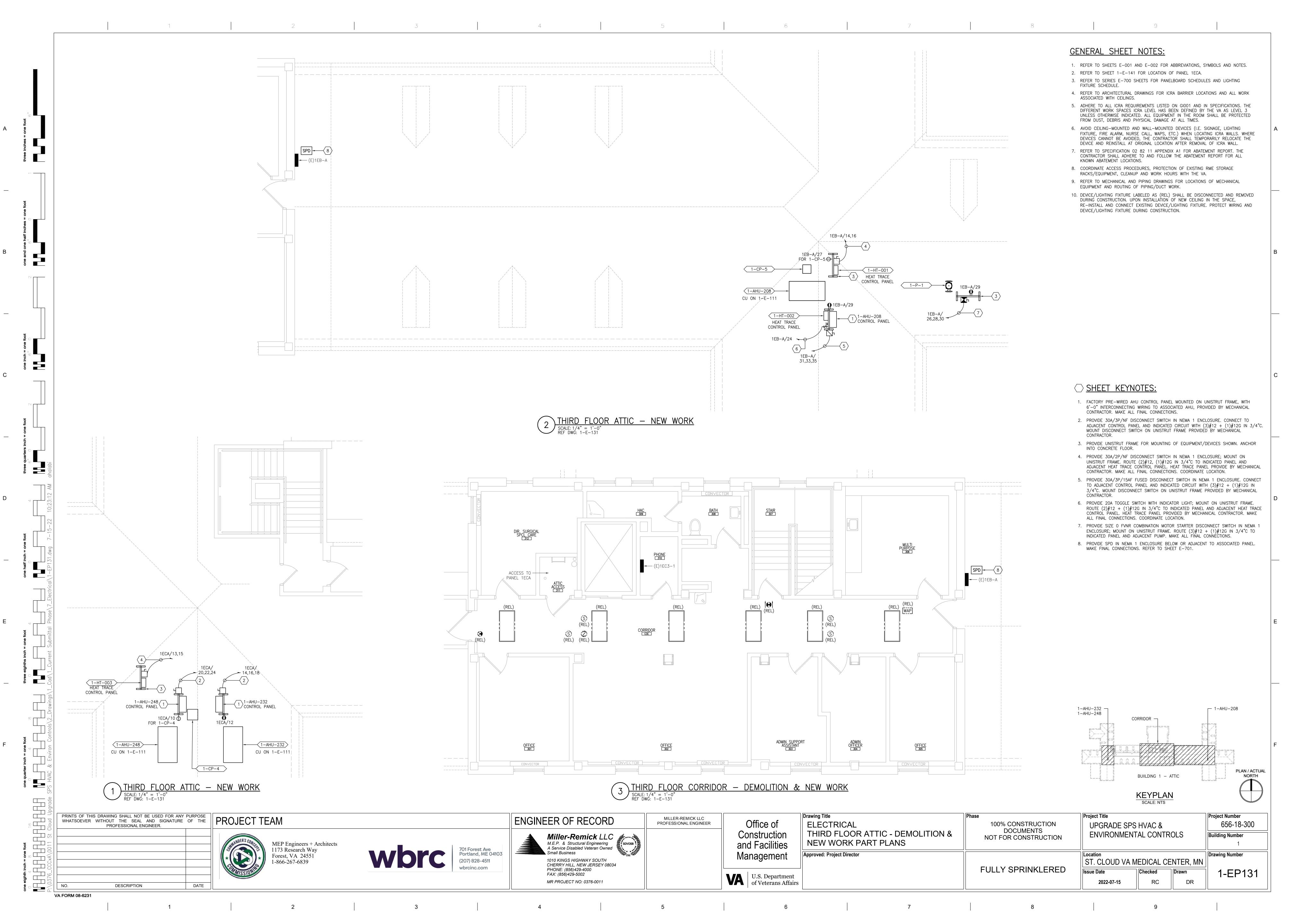


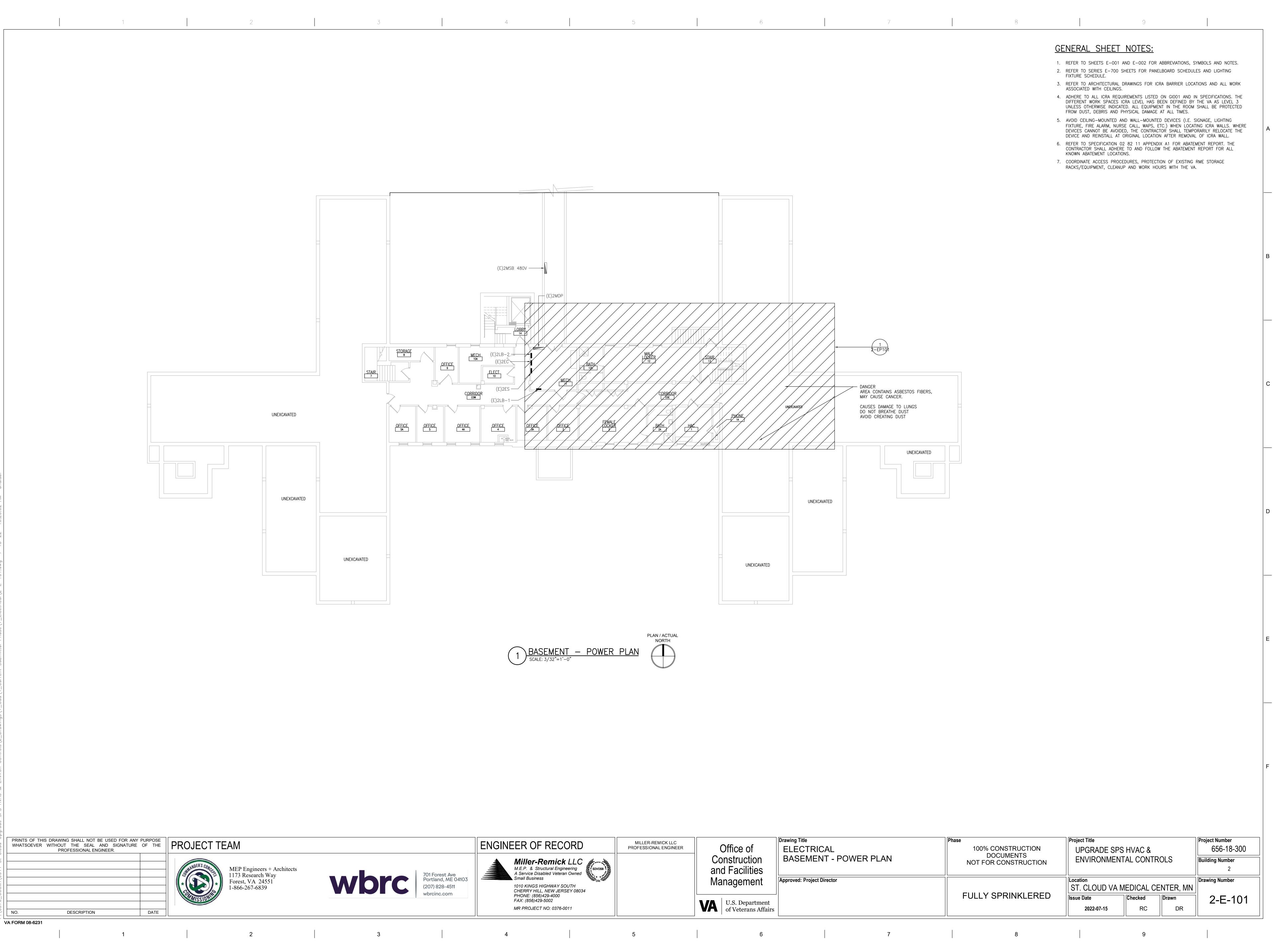


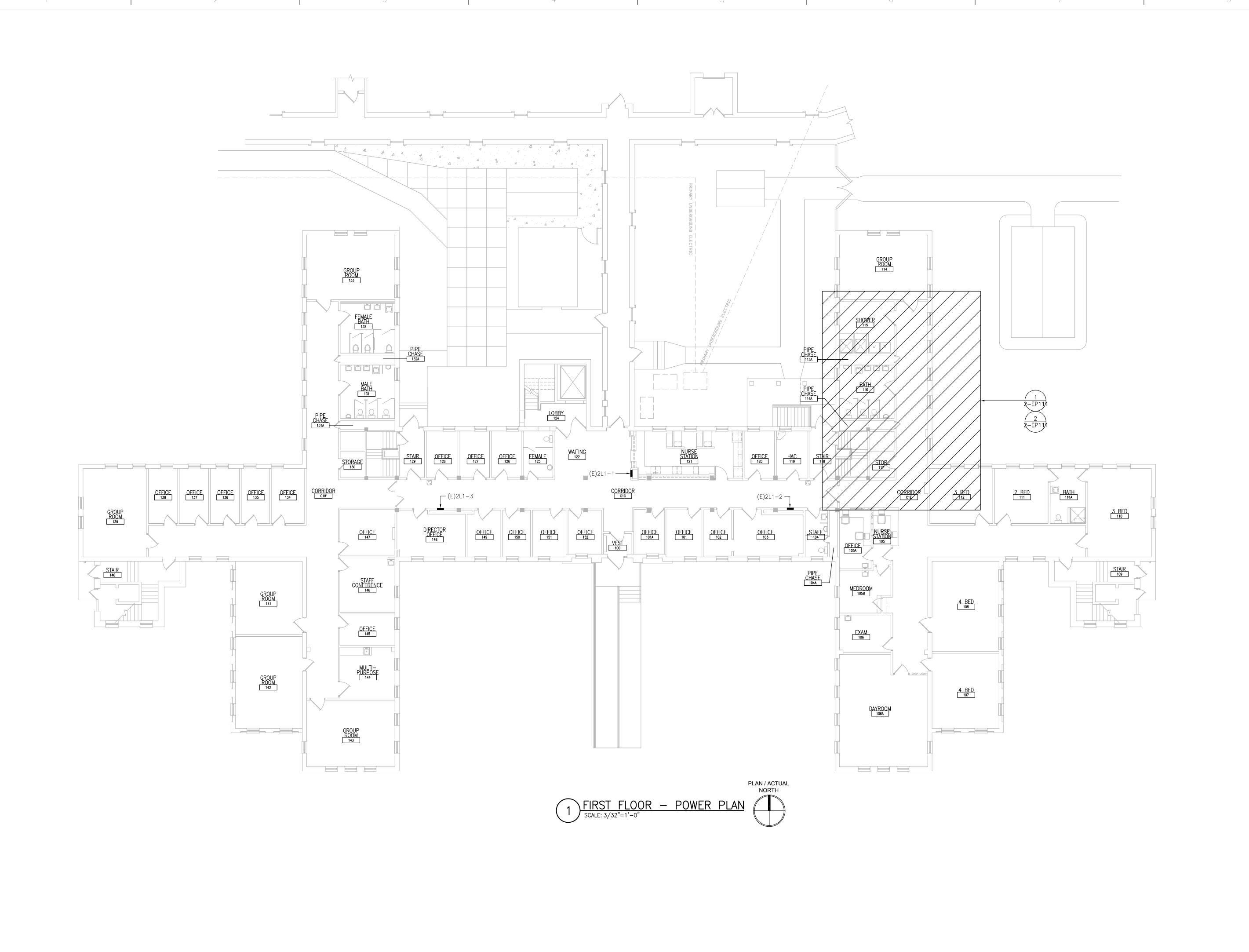


PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER. Drawing Title Project Title Project Number PROJECT TEAM ENGINEER OF RECORD MILLER-REMICK LLC Office of 656-18-300 **ELECTRICAL** 100% CONSTRUCTION PROFESSIONAL ENGINEER UPGRADE SPS HVAC & DOCUMENTS NOT FOR CONSTRUCTION SECOND FLOOR - DEMOLITION & NEW Miller-Remick LLC

M.E.P. & Structural Engineering
A Service Disabled Veteran Owned
Small Business Construction **ENVIRONMENTAL CONTROLS Building Number WORK PART PLANS** and Facilities MEP Engineers + Architects 1173 Research Way 701 Forest Ave Portland, ME 04103 Management Approved: Project Director Drawing Number Forest, VA 24551 1-866-267-6839 (207) 828-4511 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 ST. CLOUD VA MEDICAL CENTER, MN **FULLY SPRINKLERED** PHONE: (856)429-4000 1-EP122 Checked Drawn U.S. Department of Veterans Affairs FAX: (856)429-5002 RC DR MR PROJECT NO: 0376-0011 2022-07-15 DESCRIPTION DATE



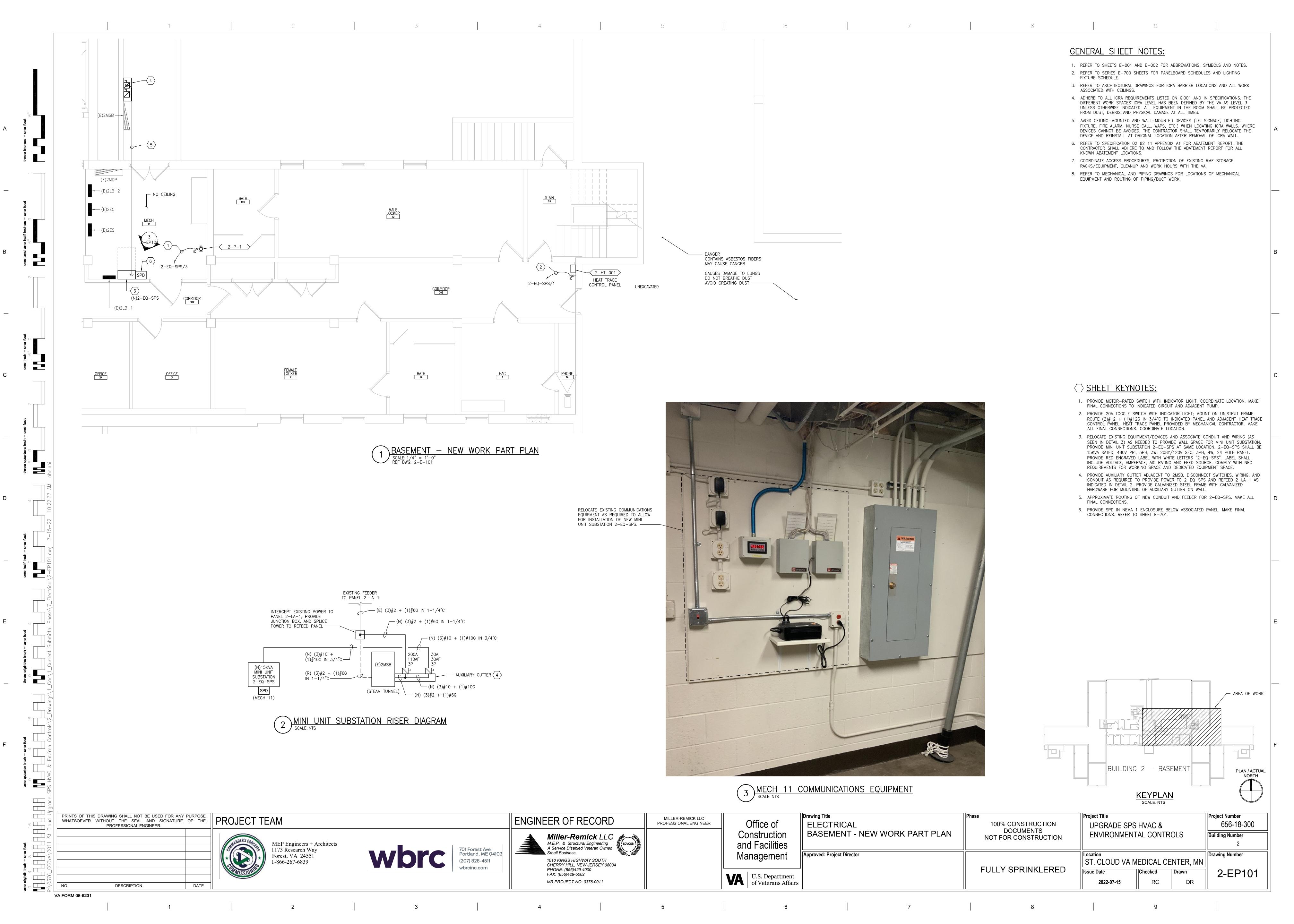


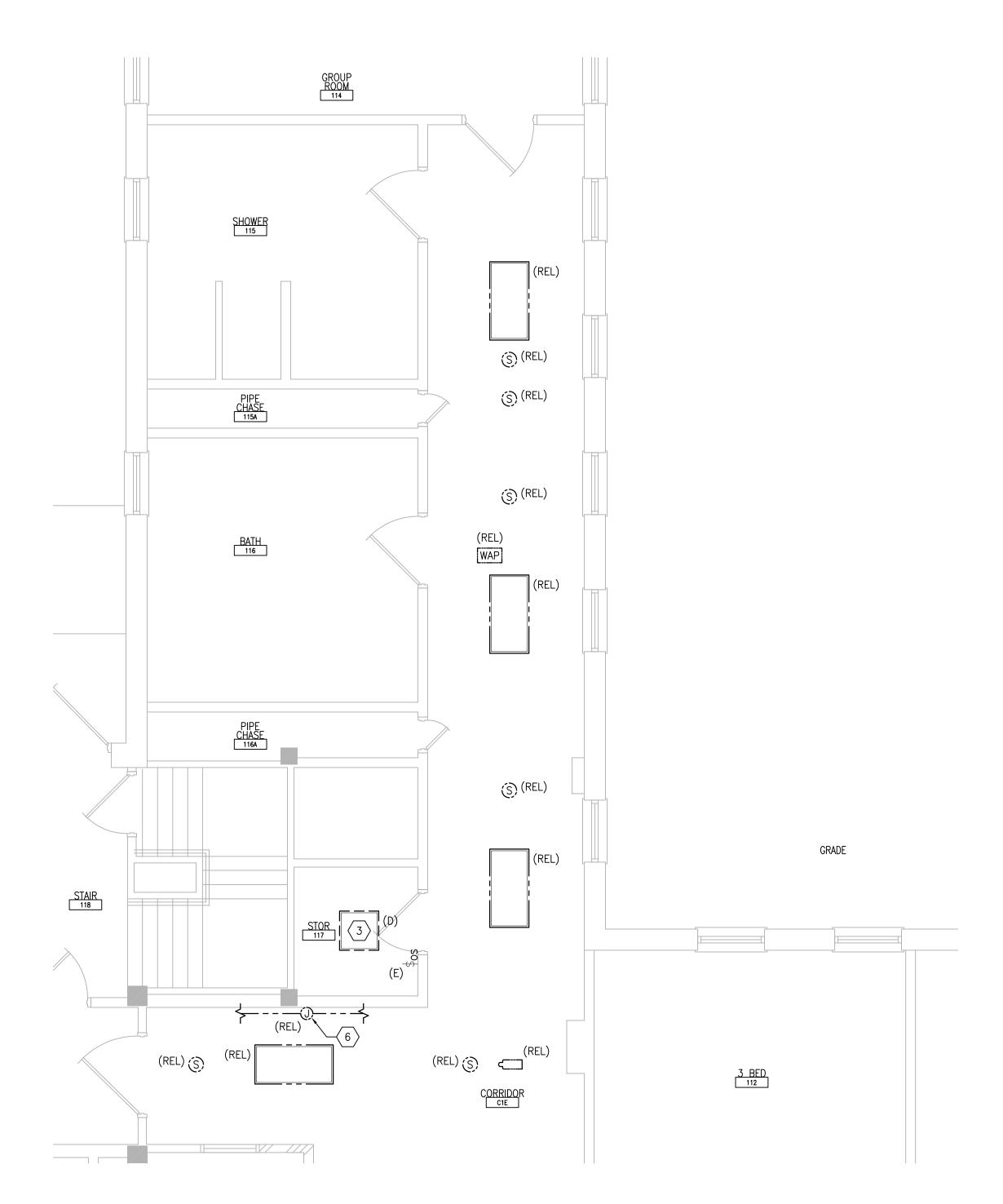


- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- 4. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- 5. AVOID CEILING—MOUNTED AND WALL—MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE
- DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.

  6. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL
- KNOWN ABATEMENT LOCATIONS.
- 7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.

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	MEP Engineers + Architects	701 Forest Ave Portland, ME 04103 (207) 828-4511	Miller-Remick LLC  M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002		Construction and Facilities Management	FIRST FLOOR - POWER PLAN	DOCUMENTS NOT FOR CONSTRUCTION	ENVIRONMENTAL CONTROLS	Building Number 2  Drawing Number
	1173 Research Way Forest, VA 24551 1-866-267-6839					Approved: Project Director	FULLY SPRINKLERED	Location ST. CLOUD VA MEDICAL CENTER, MN	



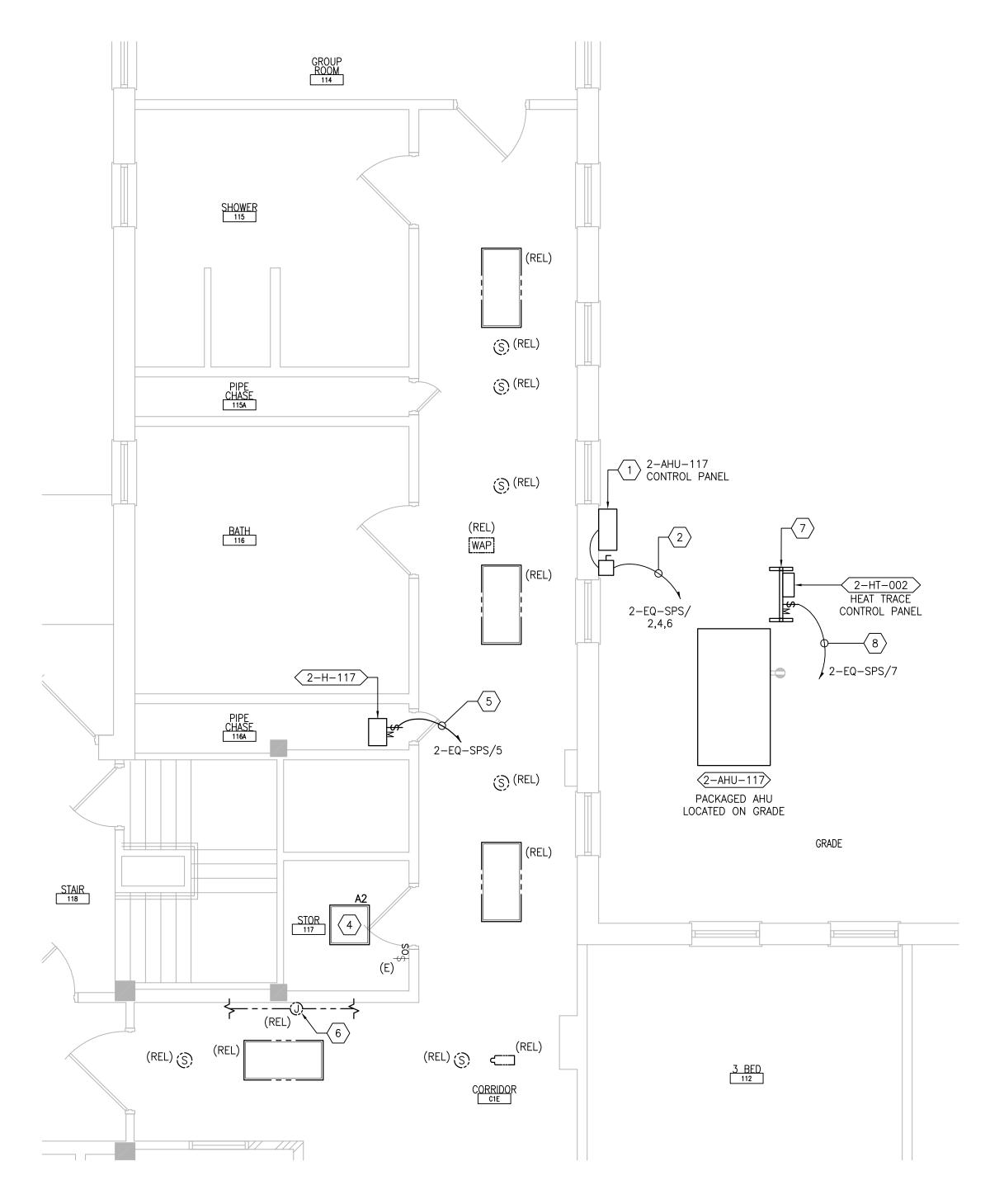


FIRST FLOOR ROOM 117 — DEMOLITION

SCALE: 1/4" = 1'-0"
REF DWG: 2-E-111

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VA FORM 08-6231



FIRST FLOOR ROOM 117 - NEW WORK

SCALE: 1/4" = 1'-0"
REF DWG: 2-E-111

## **GENERAL SHEET NOTES:**

FIXTURE SCHEDULE.

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SHEET 2-EP101 FOR LOCATION OF PANEL 2-EQ-SPS.
- 3. REFER TO SHEET 2-E-111 FOR LOCATION OF PANELBOARDS ON FLOOR.

FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.

5. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK

4. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING

ASSOCIATED WITH CEILINGS.

6. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3

UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED

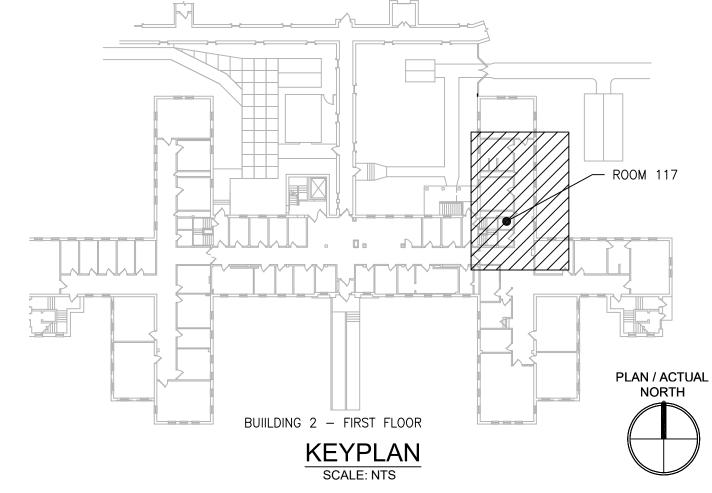
- 7. AVOID CEILING—MOUNTED AND WALL—MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE
- DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.

  8. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- 9. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- 10. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- 11. DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE—INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- 12. OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.
- 13. <u>CONDENSING UNITS AND PACKAGED AHU'S:</u> UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY—SCALE (FOR REFERENCE ONLY).

## 

- 1. FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6'-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS.
- 2. PROVIDE 30A/3P/NF DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#8 + (1)#10G IN 3/4"C. PROVIDE UNISTRUT CHANNEL FOR MOUNTING OF DISCONNECT SWITCH ON WALL. CORE DRILL FLOOR SLAB TO FEED NEW CIRCUITS FROM PANEL IN BASEMENT BELOW.
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.

   DESCRIPTION FOR LIGHTING FIXTURE AND CONNECT TO EXISTING PRANCH CIRCUIT.
- 4. PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- 5. PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT. ROUTE (2)#8 + (1)#8G IN 3/4"C TO INDICATED PANEL AND ADJACENT HUMIDIFIER. MAKE FINAL CONNECTIONS. CORE DRILL FLOOR SLAB TO FEED NEW CIRCUITS FROM PANEL IN BASEMENT BELOW.
- 6. RELOCATE EXISTING JUNCTION BOX (FED FROM PANEL 2-L1-2, CIRCUIT 7), WIRING AND CONDUITS (QUANTITY OF 3) INSTALLED ABOVE CEILING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW DUCTWORK. COORDINATE NEW ROUTING WITH MECHANICAL CONTRACTOR
- 7. PROVIDE UNISTRUT FRAME FOR MOUNTING OF EQUIPMENT/DEVICES SHOWN. ANCHOR INTO GRADE.
- 8. PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE; MOUNT ON UNISTRUT FRAME. ROUTE (2)#10 + (1)#10G IN 3/4"C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.

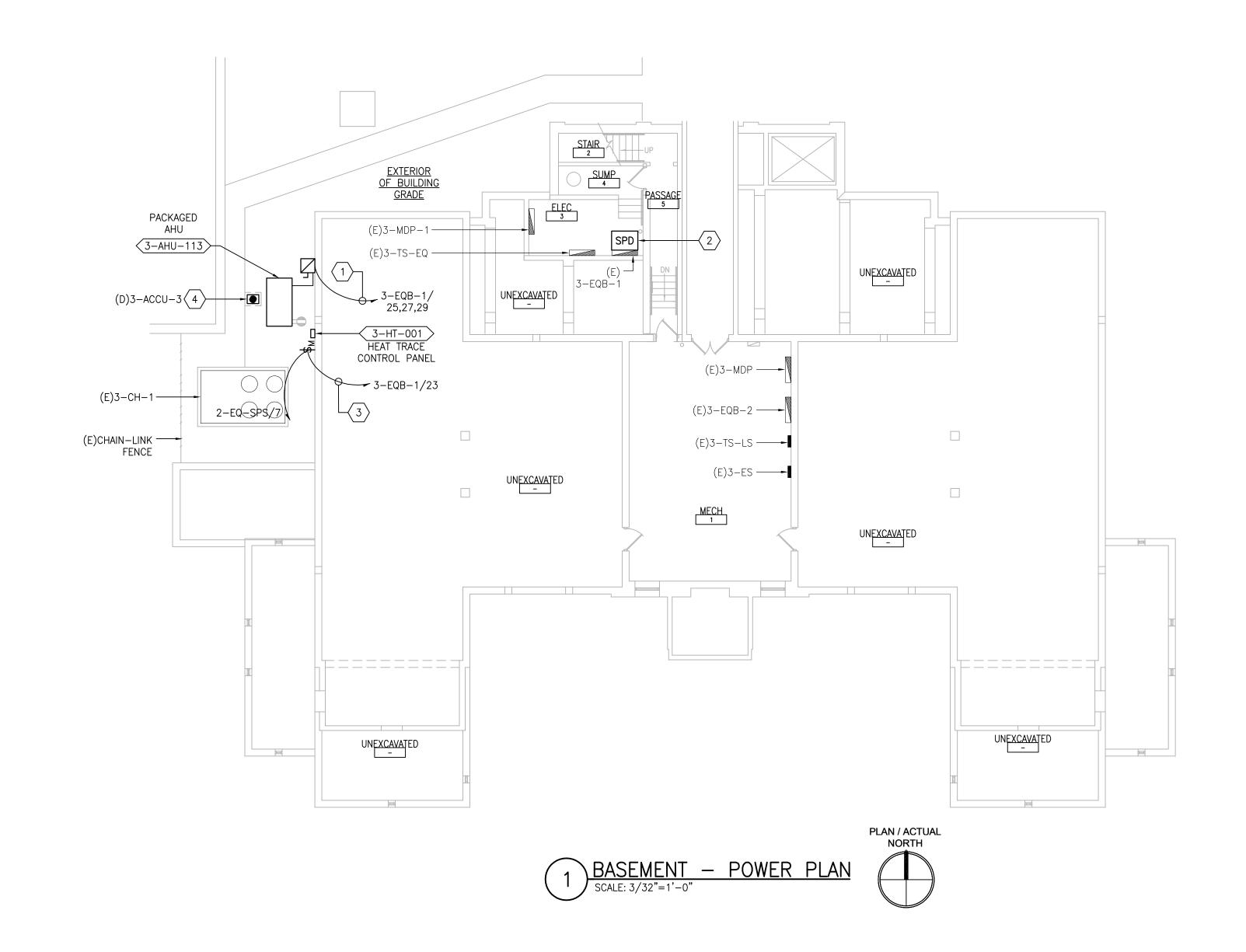


PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE Drawing Title Project Title Project Number ENGINEER OF RECORD MILLER-REMICK LLC Office of 656-18-300 **ELECTRICAL** 100% CONSTRUCTION UPGRADE SPS HVAC & PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER. DOCUMENTS NOT FOR CONSTRUCTION FIRST FLOOR - DEMOLITION & NEW Miller-Remick LLC

M.E.P. & Structural Engineering

A Service Disabled Veteran Owned

Small Rusiness Construction **ENVIRONMENTAL CONTROLS Building Number WORK PART PLANS** and Facilities MEP Engineers + Architects 1173 Research Way 701 Forest Ave Portland, ME 04103 Management Approved: Project Director Drawing Number Forest, VA 24551 1-866-267-6839 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 (207) 828-4511 ST. CLOUD VA MEDICAL CENTER, MN **FULLY SPRINKLERED** PHONE: (856)429-4000 Checked 2-EP111 Drawn FAX: (856)429-5002 U.S. Department of Veterans Affairs RC DR MR PROJECT NO: 0376-0011 DESCRIPTION DATE



ENGINEER OF RECORD

701 Forest Ave Portland, ME 04103

(207) 828-4511

3

Miller-Remick LLC

M.E.P. & Structural Engineering

A Service Disabled Veteran Owned Small Business

1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034

PHONE: (856)429-4000

MR PROJECT NO: 0376-0011

FAX: (856)429-5002

MILLER-REMICK LLC

PROFESSIONAL ENGINEER

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Office of

Construction

and Facilities

Management

VA FORM 08-6231

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DESCRIPTION

DATE

MEP Engineers + Architects 1173 Research Way

Forest, VA 24551 1-866-267-6839

#### **GENERAL SHEET NOTES:**

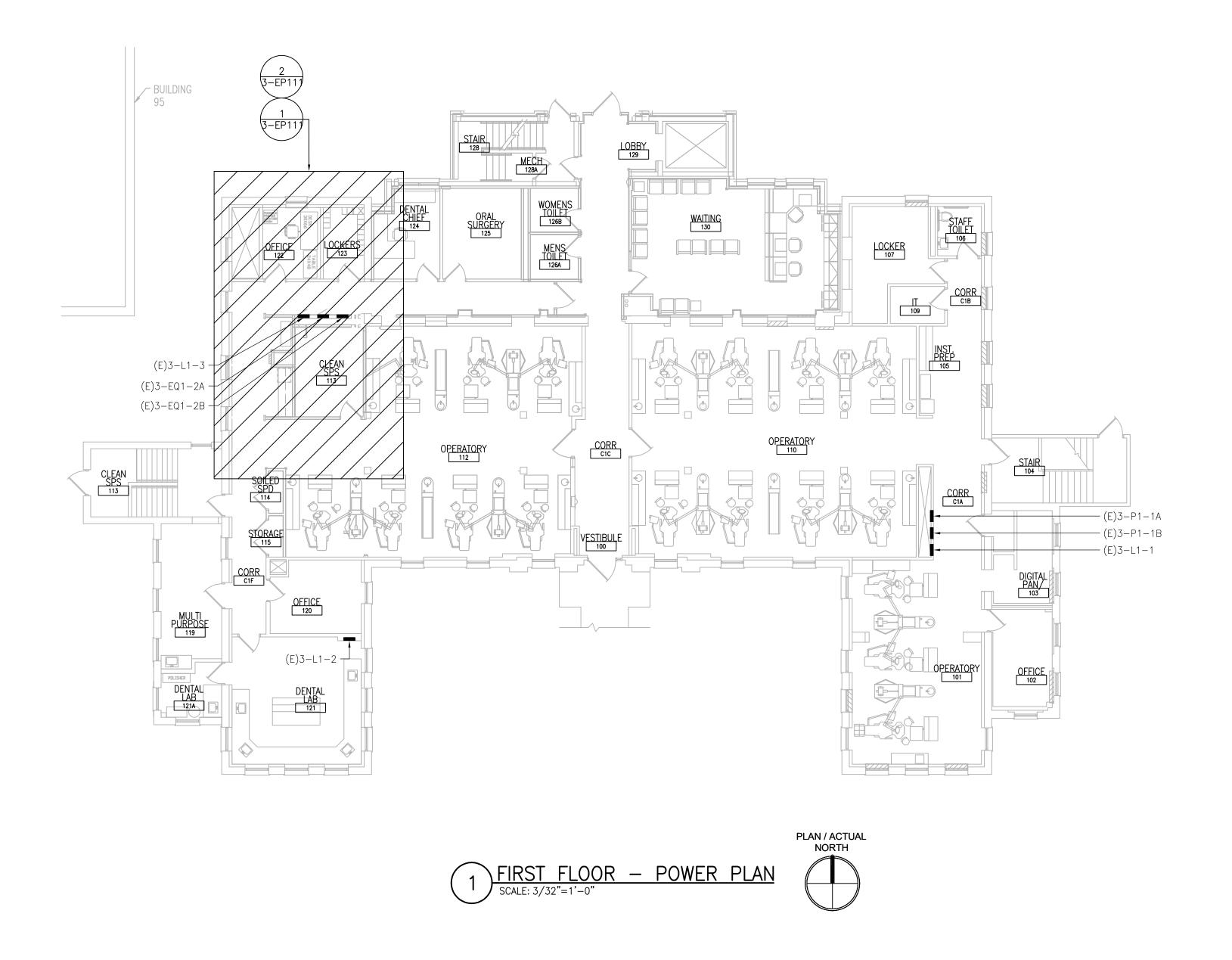
- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- 4. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON GIOO1 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED
- FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES. 5. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- 6. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- 7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- 8. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- 9. <u>CONDENSING UNITS AND PACKAGED AHU'S:</u> UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

## 

- 1. PROVIDE 30A/3P/30AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO AHU AND INDICATED CIRCUIT WITH (3)#10 + (1)#10G IN 3/4°C. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF DISCONNECT
- 2. PROVIDE SPD IN NEMA 1 ENCLOSURE BELOW OR ADJACENT TO ASSOCIATED PANEL. MAKE FINAL CONNECTIONS. REFER TO SHEET E-701.
- 3. PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE. ROUTE (2)#12 + (1)#12G IN 3/4"C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.
- 4. DISCONNECT AND REMOVE WIRING AND CONDUIT FOR EXISTING UNIT BACK TO SOURCE. REMOVE ALL ASSOCIATED ELECTRICAL DEVICES/EQUIPMENT. REFER TO 3-MH101 FOR ADDITIONAL INFORMATION.

Project Title Drawing Title Project Number 656-18-300 **ELECTRICAL** 100% CONSTRUCTION UPGRADE SPS HVAC & DOCUMENTS NOT FOR CONSTRUCTION BASEMENT - POWER PLAN **ENVIRONMENTAL CONTROLS Building Number** Approved: Project Director Drawing Number ST. CLOUD VA MEDICAL CENTER, MN FULLY SPRINKLERED Checked 3-E-101 Drawn U.S. Department of Veterans Affairs RC DR

- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
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- EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.



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VA FORM 08-6231

DESCRIPTION

DATE

MEP Engineers + Architects 1173 Research Way Forest, VA 24551 1-866-267-6839

701 Forest Ave Portland, ME 04103 (207) 828-4511

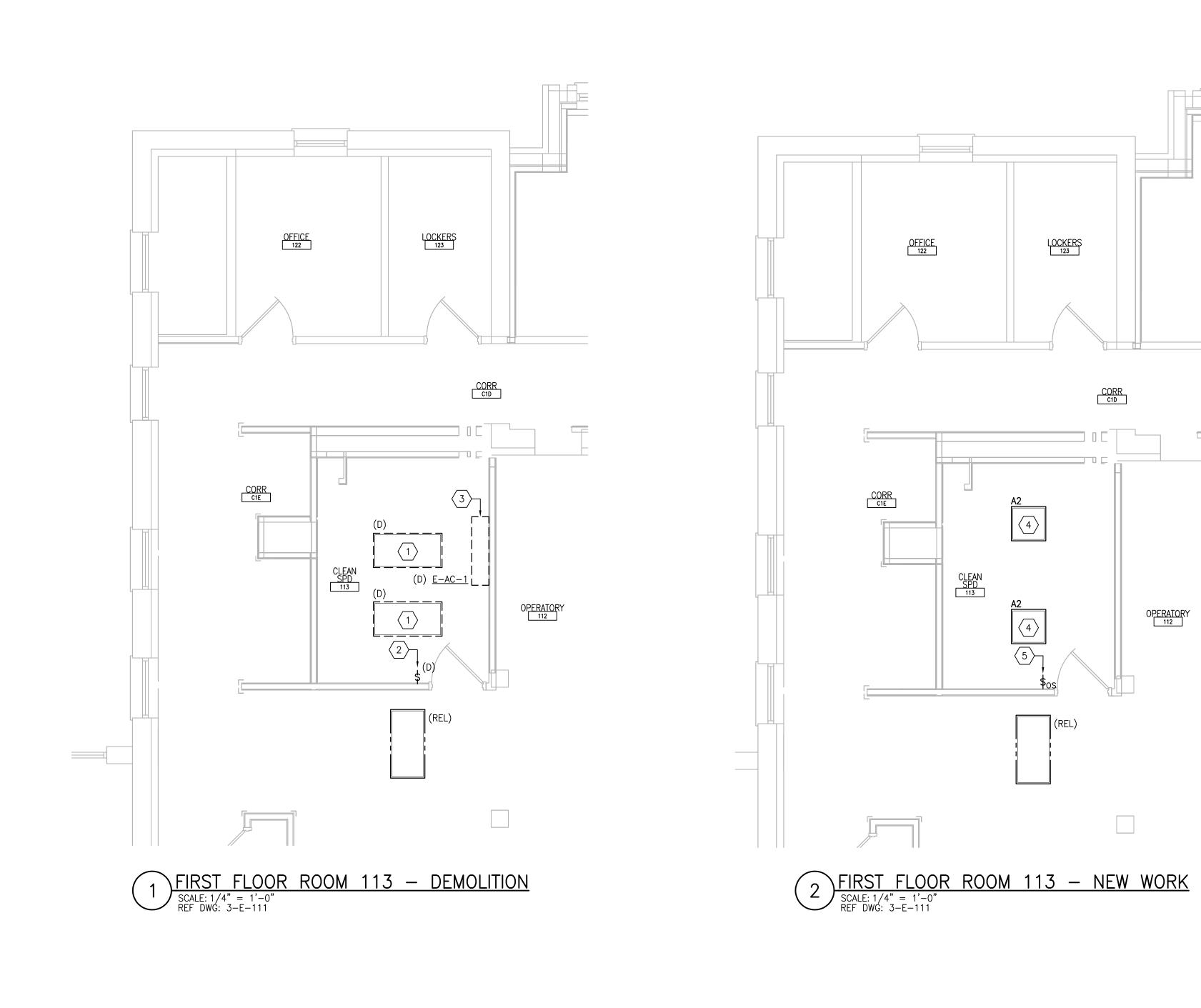
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MILLER-REMICK LLC PROFESSIONAL ENGINEER Office of Construction and Facilities Management U.S. Department of Veterans Affairs

Project Title Project Number Drawing Title 656-18-300 **ELECTRICAL** 100% CONSTRUCTION UPGRADE SPS HVAC & DOCUMENTS NOT FOR CONSTRUCTION FIRST FLOOR - POWER PLAN **ENVIRONMENTAL CONTROLS Building Number** Approved: Project Director Drawing Number ST. CLOUD VA MEDICAL CENTER, MN FULLY SPRINKLERED Checked Drawn 3-E-111 RC DR 2022-07-15



- 1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- 2. REFER TO SHEET 3-E-111 FOR LOCATION OF PANELBOARDS. 3. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING
- FIXTURE SCHEDULE. 4. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK
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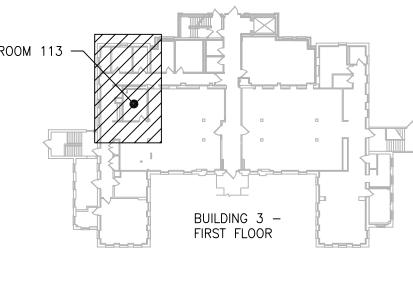
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- 11. OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.

DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.

# 

- 1. DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- 2. DISCONNECT AND REMOVE EXISTING SWITCH. RETAIN BACK BOX AND ASSOCIATED CONDUIT AND WIRING.
- 3. EXISTING WALL MOUNT AIR CONDITIONING (AC-1) UNIT AND ASSOCIATED CONDENSING UNIT TO BE REMOVED AND RELOCATED TO STORAGE AS DIRECTED BY THE VA OR DISPOSED OF PER THE SPECIFICATIONS. DEMOLISH ALL APPURTENANCES INCLUDING PIPING, WIRING HANGERS ETC. PATCH AND PAINT WALL TO MATCH EXISTING
- 4. PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- 5. PROVIDE NEW SWITCH INSTALLED IN EXISTING BACK BOX. CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.





PLAN / ACTUAL NORTH

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER. Drawing Title Project Title Project Number ENGINEER OF RECORD MILLER-REMICK LLC Office of 656-18-300 **ELECTRICAL** 100% CONSTRUCTION PROFESSIONAL ENGINEER UPGRADE SPS HVAC & DOCUMENTS NOT FOR CONSTRUCTION FIRST FLOOR - DEMOLITION & NEW Miller-Remick LLC

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Small Business Construction **ENVIRONMENTAL CONTROLS Building Number WORK PART PLANS** and Facilities MEP Engineers + Architects 1173 Research Way 701 Forest Ave Portland, ME 04103 Approved: Project Director Management Drawing Number Forest, VA 24551 1-866-267-6839 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 ST. CLOUD VA MEDICAL CENTER, MN (207) 828-4511 **FULLY SPRINKLERED** PHONE: (856)429-4000 3-EP111 Checked Drawn U.S. Department of Veterans Affairs FAX: (856)429-5002 DR MR PROJECT NO: 0376-0011 RC 2022-07-15 DESCRIPTION DATE

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VA FORM 08-6231