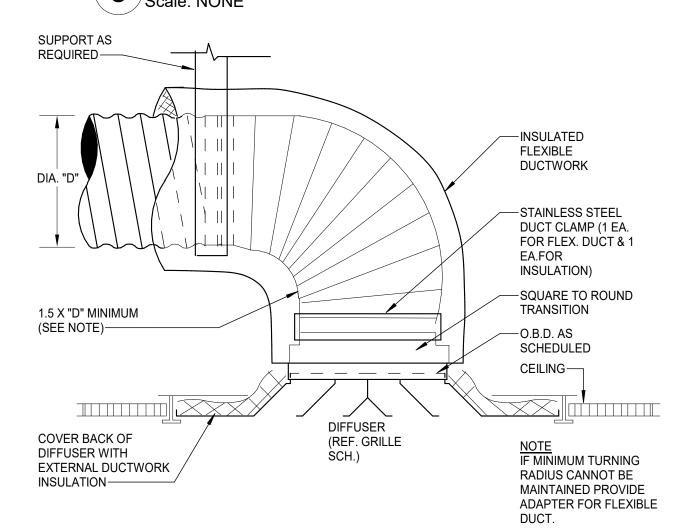


FLEXIBLE DUCT TAP - SPIN-IN

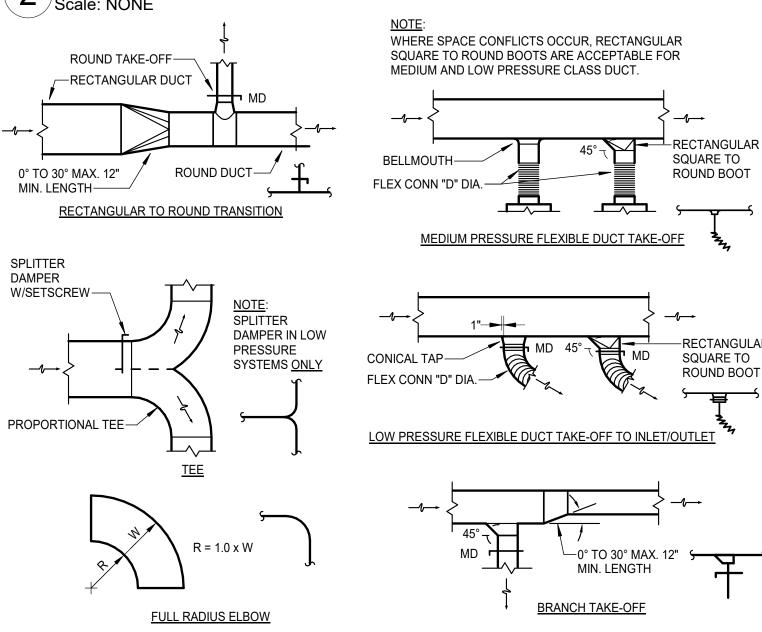
U-BOLTS (MIN. OF 2)

-AIRTIGHT NYLON

END BUSHING



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER



UNLESS NOTED OTHERWISE ALL MITERED 90 DEGREE ELBOWS SHALL HAVE

STANDARD DUCT CONSTRUCTION

TURNING VANES. 45 DEGREE ELBOWS SHALL NOT HAVE TURNING VANES.

MECHANICAL SPECIFICATIONS

GENERAL

- . PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
- . OBTAIN ALL PERMITS REQUIRED. . CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS
- ELEMENTS OF WORK, DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS. . GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF HE PROJECT, DURING THAT
- PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL. EQUIPMENT OR WORKMANSHIP, AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE
- . IMMEDIATELY PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, REPLACE AIR FILTERS. . PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED HVAC EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONCRETE PADS ARE TO BE 4" THICK UNLESS OTHERWISE INDICATED ON THE
- . PROVIDE NAMEPLATES WITH 1/2" HIGH LETTERS AND FASTENED WITH EPOXY OR SCREWS. . MAINTAIN QUALITY CONTROL OVER SUPERVISION, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP TO PRODUCE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.
-). COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP
- 0. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY. I. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES. VIBRATION, AND RACKING. UNDER NO CONDITIONS SHALL MATERIAL OR EQUIPMENT BE SUSPENDED FROM STRUCTURAL BRIDGING.
- I2. PROVIDE FINISHES TO MATCH APPROVED SAMPLES. ALL EXPOSED FINISHES SHALL BE APPROVED BY THE ARCHITECT SUBMIT COLOR SAMPLES AS REQUIRED.
- 3. COMPLY WITH INSTRUCTIONS IN FULL DETAIL, INCLUDING EACH STEP IN SEQUENCE. SHOULD INSTRUCTION CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT / ENGINEER BEFORE PROCEEDING.

MECHANICAL ALTERATIONS

- . INSPECT AND SERVICE EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN OR TO BE REUSED. . DISPOSAL OF EQUIPMENT, MATERIALS, OR HOUSEKEEPING PADS TO BE ABANDONED. PRIOR TO DISPOSAL, THE CONTRACTOR SHALL VERIFY WITH THE OWNER WHAT IS TO BE SALVAGED BY THE OWNER AND WHAT IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- . HANDLING OF EQUIPMENT AND MATERIALS TO BE REMOVED. . INSPECTION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE INSPECTED FOR DAMAGED OR MISSING PARTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING, ACCORDINGLY. IF USING MATERIALS SPECIFIED OR SHOWN ON THE DRAWING VOIDS OR DIMINISHES THE WARRANTY OR OPERATION OF REMAINING EQUIPMENT OR SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING, DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD

OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT

- BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED . APPLICATION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE CLEANED AND RECONDITIONED, INCLUDING CLEANING OF PIPING SYSTEMS AND HVAC COILS PRIOR TO INSTALLATION AND REUSE. MATERIAL AND EQUIPMENT REMOVED THAT IS NOT TO BE SALVAGED FOR OWNER'S USE OR FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE. MATERIAL OR EQUIPMENT SALVAGED FOR OWNER'S USE SHALL BE CAREFULLY HANDLED AND STORED WHERE DIRECTED BY THE OWNER OR THE ARCHITECT/ENGINEER. RELOCATE MATERIAL AND / OR EQUIPMENT AS DIRECTED BY OWNER. MATERIALS AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED SHALL BE RECONNECTED TO THE NEW SYSTEM. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK
- AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE. . SEQUENCE AND SCHEDULE: COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY, ARCHITECT AND OWNER. REMOVE CONCRETE HOUSEKEEPING PAD WHERE MATERIALS OR EQUIPMENT HAVE BEEN REMOVED.

DUCTWORK

- . DUCT MATERIAL AND CONSTRUCTION: USE LOCK FORMING QUALITY PRIME GALVANIZED STEEL SHEETS OR COILS UP TO 60" WIDE. STENCIL EACH SHEET WITH GAUGE AND MANUFACTURER'S NAME. STENCIL COILS OF SHEET STEEL THROUGHOUT ON 10' CENTERS WITH GAUGE AND MANUFACTURER'S NAME. PROVIDE CERTIFICATION OF DUCT GAUGE AND MANUFACTURER FOR EACH SIZE DUCT.
- . RECTANGULAR LOW PRESSURE DUCT CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- . LOW PRESSURE ROUND DUCTS SHALL BE SHOP FABRICATED WITH SNAP LOCK LONGITUDINAL SEAMS. DUCTS SHALL BE CONSTRUCTED FOR A MINIMUM OF 2" W.G. STATIC PRESSURE. MEDIUM PRESSURE ROUND DUCTWORK SHALL BE WELDED SPIRAL SEAM SUCH AS MANUFACTURED BY UNITED SHEET METAL COMPANY. SEAMS AND JOINTS OF ALL MEDIUM PRESSURE DUCTWORK SHALL BE CONTINUOUSLY WELDED.
- . FLEXIBLE DUCT LOW PRESSURE SHALL BE A CONTINUOUS GALVANIZED SPRING STEEL WIRE HELIX, WITH REINFORCED METALIZED COVER, REINFORCED VAPOR BARRIER JACKET RATED FOR USE AT SYSTEM PRESSURE (6" WC MINIMUM). THERMAL CHARACTERISTICS OF R-6 BTU/HR/SQ. FT./°F AND 2" WALL THICKNESS INSULATION WITH 1 OVERLAP. ACCEPTABLE MANUFACTURERS: FLEXMASTER, HART & COOLEY, OMNIAIR . ACCEPTABLE MANUFACTURERS: FLEXMASTER, THERMOFLEX, OMNIAIR.
- DUCT LINING SHALL BE 1" THICK. 1 1/2 LB. DENSITY. FLEXIBLE LINING COATED ON THE AIR STREAM SIDE TO REDUCE. ATTRITION. LINER SHALL BE SCHULER LINA-COUSTIC, CERTAIN TEED ULTRALITE, OR EQUAL MEETING REQUIREMENTS OF NFPA 90 A. PROVIDE I.A.Q. RATED LINER.
- . VOLUME DAMPERS: MANUAL BALANCING DAMPERS THAT MEET OR EXCEED THE FOLLOWING MINIMUM CONSTRUCTION STANDARDS: FRAME 16-GAUGE, BLADES 16-GAUGE, BEARINGS CORROSION RESISTANT, OPPOSED
- . INSTALLATION: USE CONSTRUCTION METHODS AND REQUIREMENTS AS OUTLINED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS AS WELL AS SMACNA BALANCING AND ADJUSTING PUBLICATIONS, UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS. REFER TO DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION. REINFORCE DUCTS IN ACCORDANCE WITH RECOMMENDED CONSTRUCTION PRACTICE OF SMACNA. PROVIDE ADDITIONAL REINFORCEMENT OF LARGE PLENUMS AS REQUIRED TO PREVENT EXCESSIVE FLEXING AND OR

DUCTWORK INSULATION

- FURNISH AND INSTALL EXTERNAL INSULATION ON SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTWORK. . ALL DUCT INSULATION USED ON THE PROJECT INSIDE THE BUILDING MUST HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 AS DETERMINED BY TEST PROCEDURES ASTM
- . CONDENSATION ON ANY INSULATED SYSTEM IS NOT APPROVED.
- . WHERE EXISTING INSULATED DUCTWORK OR OTHER SERVICES ARE TAPPED, REMOVE EXISTING INSULATION BACK TO UNDAMAGED SECTIONS AND REPLACE WITH NEW INSULATION OF THE SAME TYPE AND THICKNESS AS EXISTING
- . INSULATION: GLASS FIBER BLANKET DUCT INSULATION. ACCEPTABLE MANUFACTURERS ARE: MANVILLE R-SERIES
- MICROLITE FSKL, OWENS-CORNING ED100 RKF, KNAUF 1.0 PCF FSK. 6. REINFORCED FOIL TAPE: ACCEPTABLE MANUFACTURERS ARE: VENTURE 1525CW, 3" FSK.

AIR DEVICES

- FURNISH AND INSTALL AIR DISTRIBUTION DEVICES, INCLUDING GRILLES, DIFFUSERS, REGISTERS, DAMPERS, AND
- 2. ACCEPTABLE MANUFACTURERS: TUTTLE AND BAILEY, TITUS, KRUEGER, METAL-AIRE, NAILOR INDUSTRIES, PRICE

AIR FILTERS

AIR FILTERS: FURNISH AND INSTALL A DISPOSAL MEDIA AND FRAME FILTER WITH RESISTANCE TO AIR FLOW OF A CLEAN FILTER NOT TO EXCEED 0.12" WG AT 300 FPM. INSTALL THE FILTERS AND FILTER GAUGES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

GENERAL NOTES:

- 1. INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE MECHANICAL SYSTEMS UNTIL THE OWNER IS FULLY PREPARED TO OPERATE AND MAINTAIN THE MECHANICAL SYSTEM. HOWEVER, LENGTH OF INSTRUCTION TIME SHALL BE LIMITED TO ONE DAY
- 2. EQUIPMENT, MATERIALS AND LABOR REQUIRED BY THESE CONTRACT DRAWINGS SHALL BE GUARANTEED TO BE FREE FROM DEFECTIVE MATERIALS OR WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT UNLESS SPECIFIED OTHERWISE. DEFECTIVE MATERIALS OR WORKMANSHIP OCCURRING DURING THIS PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST
- GENERAL CONTRACTOR TO VERIFY THE FINAL LOCATION OF ALL THERMOSTATS, TEMPERATURE SENSORS, PANELS AND CONTROL INSTRUMENTS WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 4. GENERAL CONTRACTOR TO VERIFY WALL OPENINGS WITH STRUCTURE, LOCATIONS OF NEW AND EXISTING EQUIPMENT AND ROUTE OF DUCTWORK WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- 5. REFER TO ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS TO COORDINATE THE EXACT LOCATIONS OF DIFFUSERS, REGISTERS, GRILLES, PIPING AND OTHER MECHANICAL EQUIPMENT WITH CEILING GRID, LIGHTS, BEAMS AND OTHER BUILDING COMPONENTS.
- CEILING GRID AND OTHER ITEMS SHALL NOT BE SUPPORTED FROM OR IN CONTACT WITH MECHANICAL EQUIPMENT. CONDUIT, WIRING, PIPING AND SUPPORTS SHALL NOT BE LOCATED IN FRONT OF FAN COIL ACCESS PANELS.
- 7. DUCTWORK AND PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL PANELS WHEN SHOWN NEAR PANELS OR OVER ELECTRICAL ROOMS.
- MATERIAL AND INSTALLATION SHALL COMPLY WITH LOCAL CODES, APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION, LOCAL UTILITY REGULATIONS AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
- 9. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS REQUIRED TO MOUNT MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 10. ALL DUCTWORK TRANSITIONS AND PIPING INCREASERS/REDUCERS SHALL BE PROVIDED AS REQUIRED FOR EQUIPMENT CONNECTIONS. SEE MANUFACTURERS DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTION SIZES AND LOCATIONS.
- 11. PROVIDE AIR DEFLECTORS IN ALL SUPPLY AIR DUCTWORK SQUARE ELBOWS.

BASIS OF DESIGN

THE FOLLOWING MINIMUM ITEMS:

STRUCTURAL MODIFICATIONS.

DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS.

SPACE HEATING AND COOLING REQUIREMENTS.

OUTDOOR CONDITIONS: 92.1°F DB, 72.6 WB

• INDOOR SETPOINTS: <u>75°F DB 50% RH</u>

• INDOOR SETPOINTS: <u>72°F DB 35% RH</u>

OUTDOOR CONDITIONS: 15.5°F DB

EXHAUST OR VENTILATION MODIFICATIONS.

VIBRATION ISOLATION REQUIREMENTS.

CIVIL MODIFICATIONS.

WINTER:

PLUMBING MODIFICATIONS

- 12. DUCTWORK AND PIPING LAYOUTS ARE FOR DIAGRAMMATICAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING AND COORDINATING ALL DUCTWORK AND PIPING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL OFFSETS AS REQUIRED TO MEET THE INTENT OF THE DESIGN DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 13. THE GENERAL CONTRACTOR SHALL SEAL AND FLASH ALL WALL, ROOF, AND FLOOR PENETRATIONS AIRTIGHT AND WATERTIGHT AT EACH PIPE, DUCTWORK, AND CONDUIT PENETRATION. PROVIDE AIRTIGHT SEAL BETWEEN AT ALL FIRE PARTITION AND OR WALL PENETRATIONS WITH UL APPROVED FIRE-RESISTANT MATERIAL MATCHING OR EXCEEDING THE PENETRATED FIRE PARTITION AND OR
- 14. ALL CUTTING AND PATCHING FOR THE INSTALLATION OF NEW WORK IN EXISTING BUILDING SHALL BE DONE BY THE GENERAL CONTRACTOR.
- 15. PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN THE SUPPLY AND RETURN DUCTS FROM ALL AIR UNITS AND AT BUILDING EXPANSION JOINTS. FLEXIBLE CONNECTIONS SHALL BE WEATHERTIGHT

SENSORS **AIR DEVICES**

GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND) SUPPLY AIR GRILLE WITH FOUR-WAY THROW RETURN AIR GRILLE EXHAUST AIR GRILLE SUPPLY AIR SIDEWALL GRILLE

RENOVATIONS

ITEM TO REMAIN

BOD BOTTOM OF DUCT CUBIC FEET PER MINUTE DRY BULB TEMPERATURE DIA DIAMETER

TYPICAL

WET BULB TEMPERATURE

FAHRENHEI1 INCHES

TYP

TSTAT THERMOSTAT

THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN.

ALL EQUIPMENT CLEARANCES, INCLUDING OTHER TRADES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT THE CONTRACTOR'S COST ANY SCOPE INCREASE AND DEDUCTIONS BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR

ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION,

DISCIPLINES FOR CHANGES IN EQUIPMENT SIZE OR ELECTRICAL REQUIREMENTS.

HVAC EQUIPMENT SIZES ARE BASED UPON ASHRAE 2021 WEATHER DATA AS LISTED BELOW. HEATING AND COOLING DESIGN CONDITION LOCATION: ROANOKE-BLACKSBURG, VIRGINIA

WHEN PROVIDING EQUIPMENT THAT IS NOT THE BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST OF

ALL DEVIATIONS FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND SCHEDULE. ADDITIONALLY,

THE EQUIPMENT MUST MEET THE PHYSICAL CONSTRAINTS OF ROOM INCLUDING COORDINATION WITH OTHER TRADES AND

CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE EQUIPMENT MANUFACTURER FOR ANY CHANGES TO THE REFRIGERANTS REQUIRED PER NEW EPA GUIDELINES. CONTRACTOR SHALL COORDINATE WITH OTHER

SYMBOL DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS) **GENERAL** KEY NOTE TAG **REVISION TAG** NEW EQUIPMENT **DUCTWORK** SUPPLY AIR DUCTWORK RETURN AIR AND OUTSIDE AIR DUCTWORK EXHAUST AIR DUCTWORK +++++FLEXIBLE DUCTWORK SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION THERMOSTAT AND TEMPERATURE SENSOR RETURN AIR SIDEWALL GRILLE 20X12 RETURN AIR OPENING ABOVE CEILING POINT OF CONNECTION FROM NEW TO EXISTING [] ITEM TO BE REMOVED SUBSCRIPTS AND ABBREVIATIONS ABOVE FINISHED FLOOR EXTERNAL STATIC PRESSURE RADIUS RELATIVE HUMIDITY

SYMBOL LEGEND

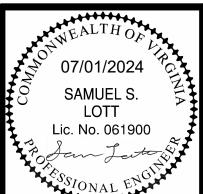
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DATE: 07/01/2024

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DRAWN BY: CHECKED BY:

MECHANICAL GENERAL NOTES DETAILS, SPECIFICATIONS, AND SYMBOLS





Roanoke

540-952-9651 119 Norfolk Avenue SW, Suite 310 Roanoke, VA 24011

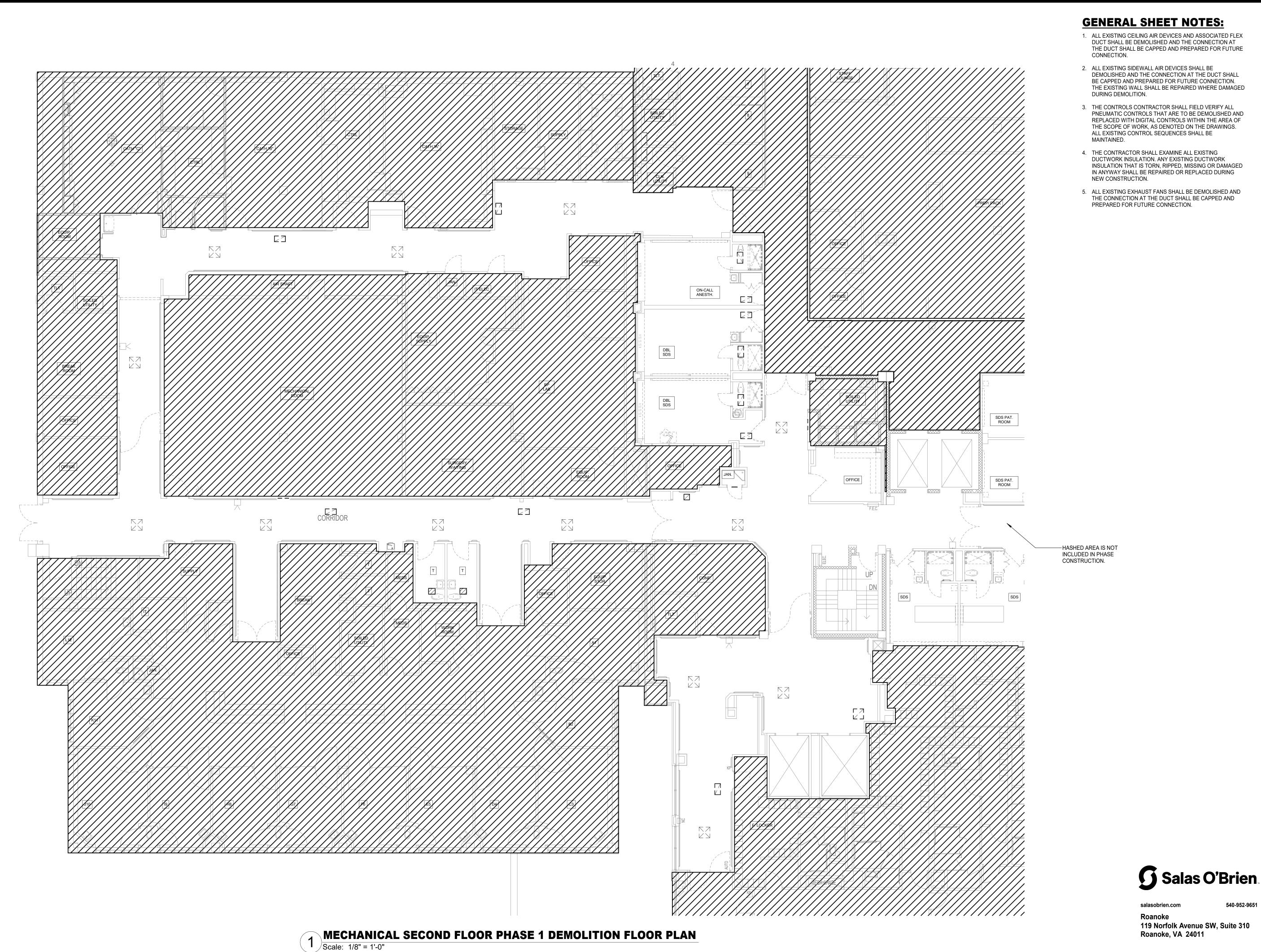
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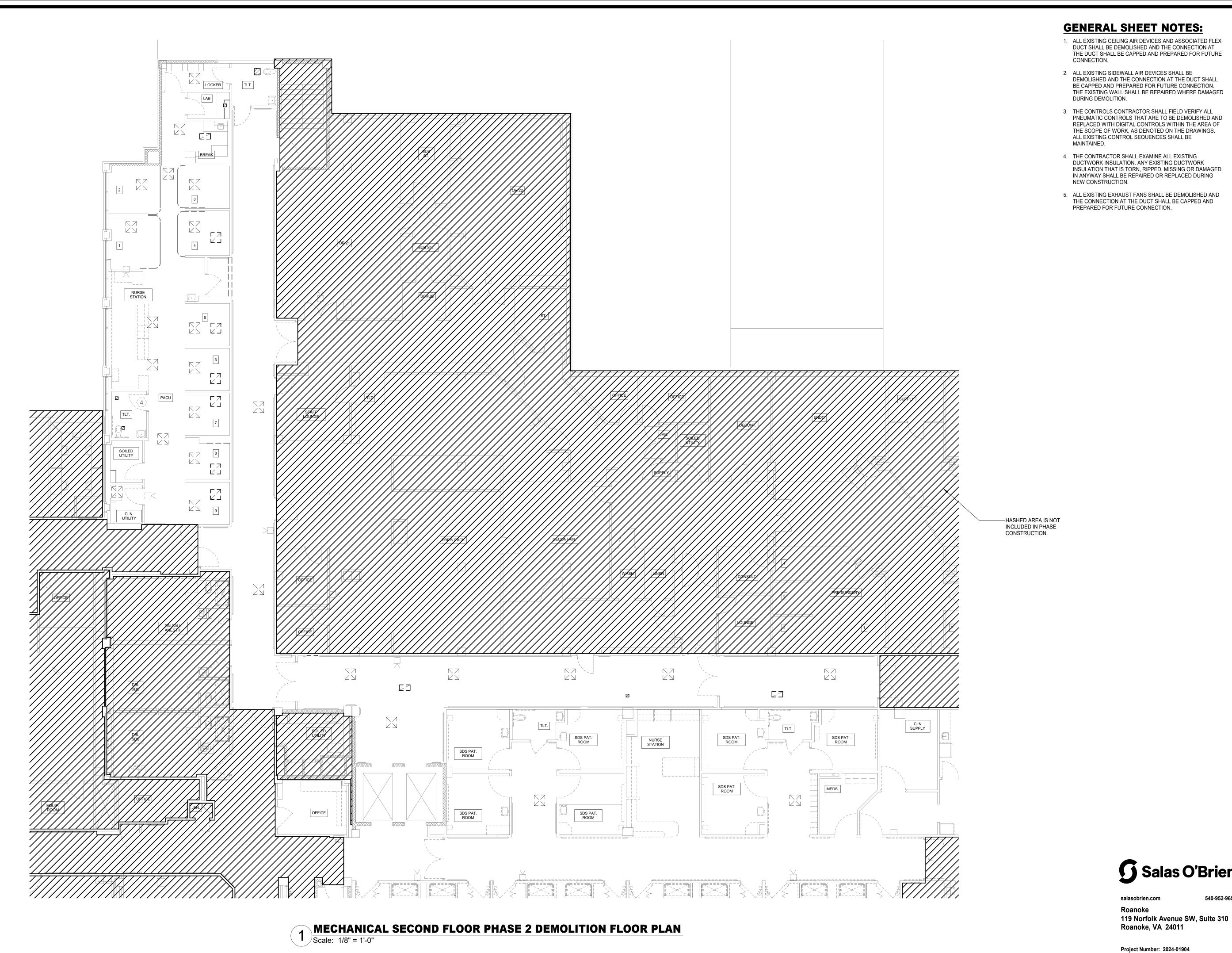
DATE: 07/01/2024

MECHANICAL SECOND FLOOR PHASE 1 DEMOLITION FLOOR PLAN

Project Number: 2024-01904

MD-1

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GENERAL SHEET NOTES:

DUCT SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE

2. ALL EXISTING SIDEWALL AIR DEVICES SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE CONNECTION. THE EXISTING WALL SHALL BE REPAIRED WHERE DAMAGED

3. THE CONTROLS CONTRACTOR SHALL FIELD VERIFY ALL PNEUMATIC CONTROLS THAT ARE TO BE DEMOLISHED AND REPLACED WITH DIGITAL CONTROLS WITHIN THE AREA OF THE SCOPE OF WORK, AS DENOTED ON THE DRAWINGS. ALL EXISTING CONTROL SEQUENCES SHALL BE

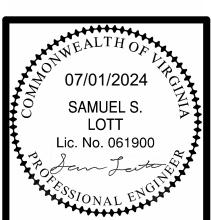
4. THE CONTRACTOR SHALL EXAMINE ALL EXISTING DUCTWORK INSULATION. ANY EXISTING DUCTWORK INSULATION THAT IS TORN, RIPPED, MISSING OR DAMAGED IN ANYWAY SHALL BE REPAIRED OR REPLACED DURING

5. ALL EXISTING EXHAUST FANS SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE CONNECTION.

DATE: 07/01/2024

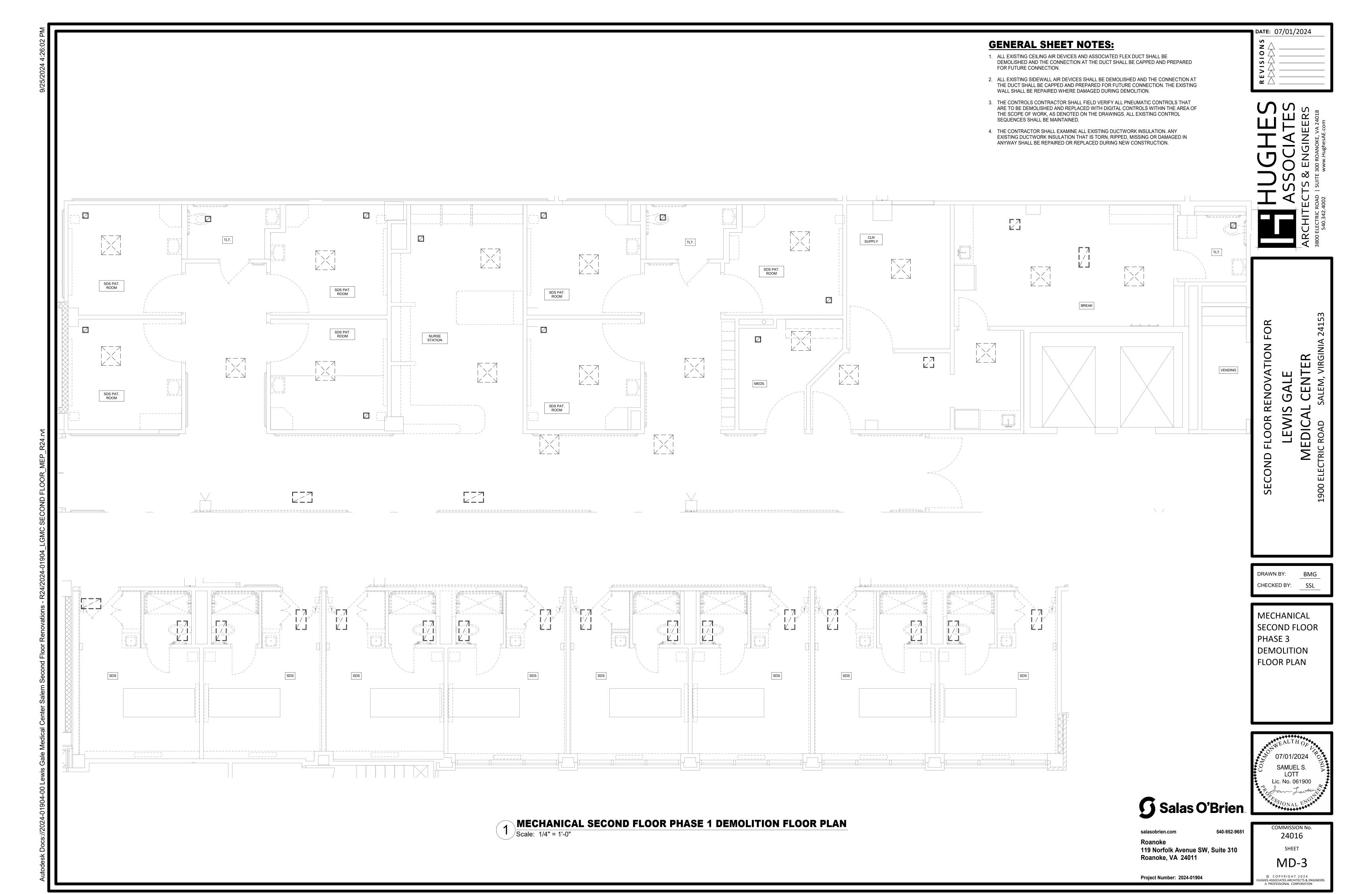
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MECHANICAL SECOND FLOOR PHASE 2 DEMOLITION FLOOR PLAN





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GENERAL SHEET NOTES:

INSTALL NEW CEILING AIR DEVICE AND EXTEND NEW FLEX DUCT OR HARD DUCT AS NECESSARY TO CONNECT TO EXISTING DUCT MAIN.

2. INSTALL NEW WALL MOUNTED AIR DEVICE AND EXTEND NEW HARD DUCT AS NECESSARY TO CONNECT TO

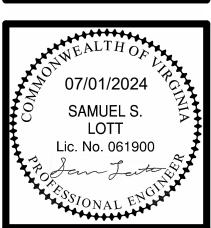
3. ANY EXISTING GRILLES, REGISTERS, OR DIFFUSER NOT DOCUMENTED ON THESE DRAWINGS BUT EXISTS WITHIN THE SCOPE OF WORK SHALL BE REPLACED IN KIND AND AIR BALANCED INTO THE CONNECTED EXISTING SYSTEM. COORDINATE FINAL COLOR SELECTION WITH THE ARCHITECT.

4. THE CONTROLS CONTRACTOR SHALL PROVIDE NEW DIGITAL TEMPERATURE CONTROLS WITHIN THE SCOPE OF WORK IN. THE CONTROLS CONTRACTOR SHALL VERIFY THAT THE EXISTING CONTROLS SEQUENCES HAVE BEEN MAINTAINED. CONTRACTOR SHALL INSPECT AND REPLACE ALL ISOLATION AND CONTROLS VALVES IN THE PATIENT ROOMS WITHIN THE RELATED SCOPE OF WORK.

5. REPLACE EXISTING EXHAUST FANS WITH NEW EXHAUST FANS IN KIND AND EXTEND NEW HARD DUCT AS NECESSARY TO CONNECT TO EXISTING DUCT MAIN.

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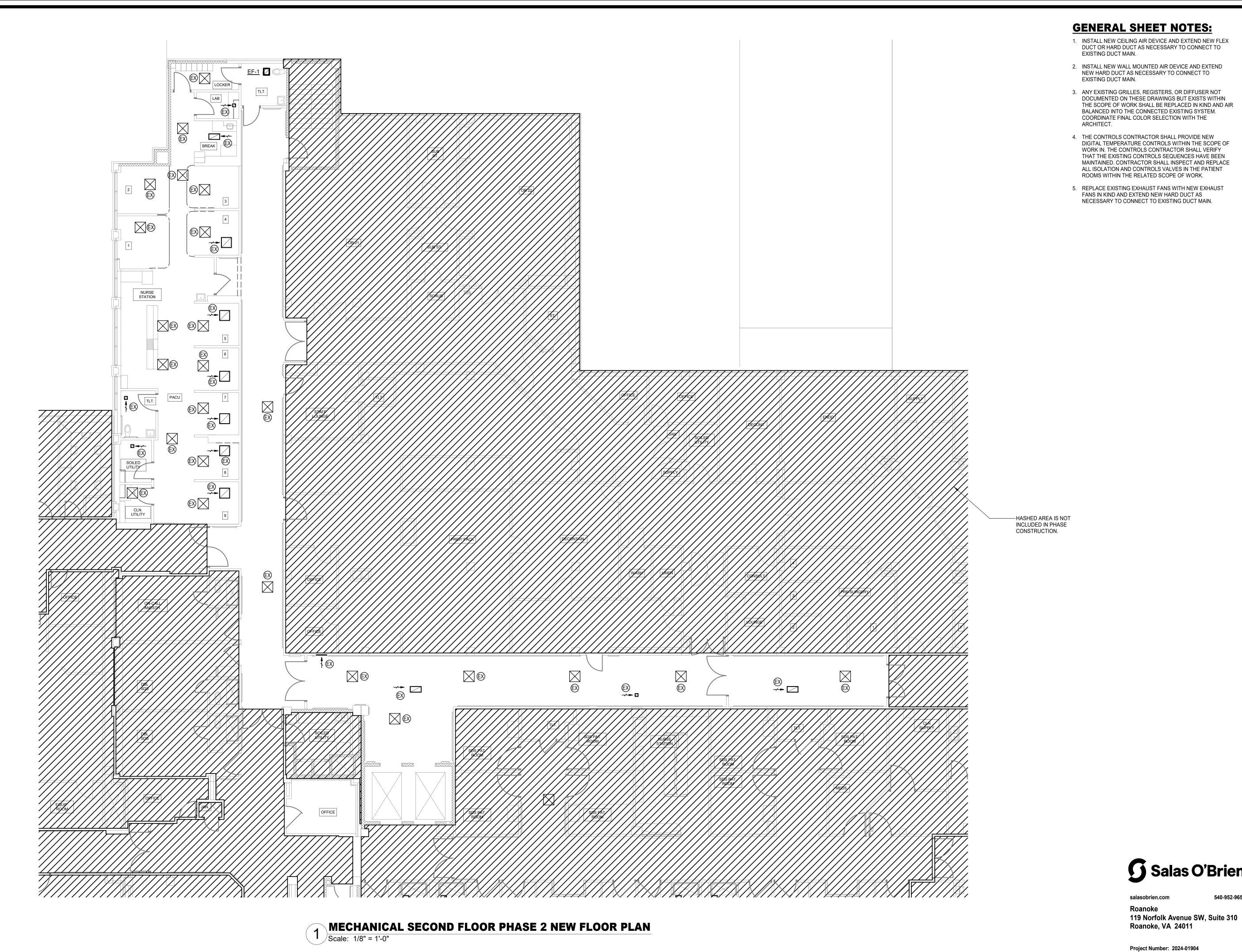
MECHANICAL SECOND FLOOR PHASE 1 NEW FLOOR PLAN



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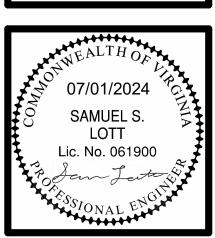
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MECHANICAL SECOND FLOOR PHASE 2 NEW FLOOR PLAN

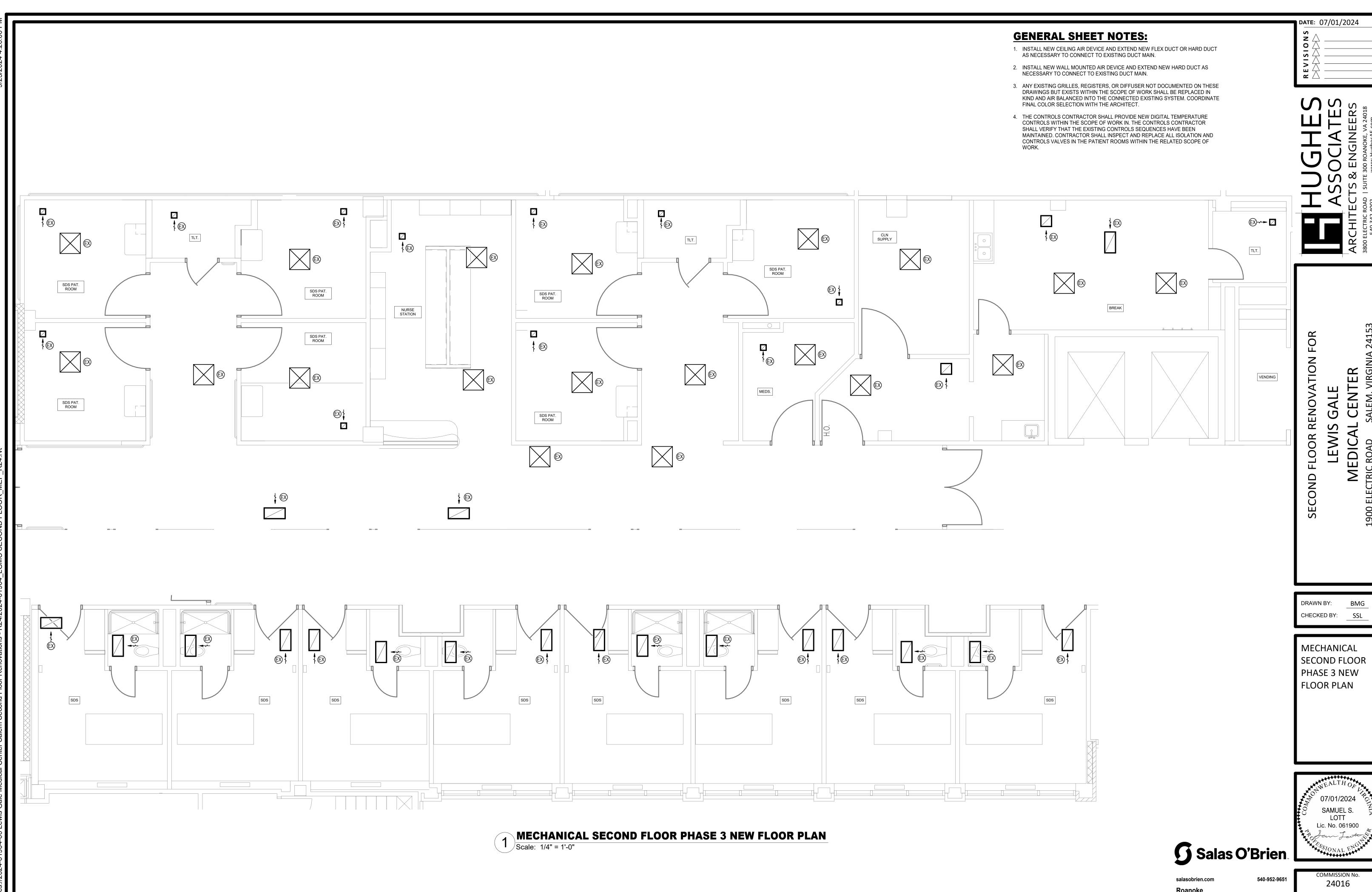


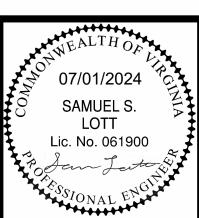


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