

MEP GENERAL CONDITIONS

- IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PROVIDE AN INSTALLATION COMPLETE IN EVERY RESPECT. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL INCLUDE ALL LABOR, MATERIALS, AND SUPERVISION ESSENTIAL TO PROVIDE COMPLETELY FUNCTIONING SYSTEMS AS DESCRIBED IN THE CONTRACT DOCUMENTS. IN THE EVENT THAT ADDITIONAL DETAILS OR SPECIAL CONSTRUCTION IS REQUIRED FOR WORK INDICATED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SAME AS WELL AS TO PROVIDE MATERIAL AND EQUIPMENT USUALLY FURNISHED WITH SUCH SYSTEMS OR REQUIRED TO COMPLETE THE INSTALLATION AT NO EXPENSE TO THE OWNER.
- DEVIATIONS TO THE INTENDED DESIGN OR THE SCOPE OF THE WORK MUST BE APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK. FAILURE TO DO SO MAY RESULT IN THE WORK TO BE REMOVED AT NO COST TO THE OWNER.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES, STANDARDS, AND AMENDMENTS AND/OR OTHER AUTHORITIES THAT MAY HAVE JURISDICTION PERTAINING TO THE WORK. IN ADDITION, ALL WORK SHALL CONFORM TO THE STANDARDS AND PRACTICES OF THE OWNER.
- ALL EQUIPMENT INSTALLED ON THIS PROJECT SHALL BE NEW AND UNUSED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REMOVE ALL SHIPPING LABELS, DIRT, PAINT SPOTS, GREASE, AND STAINS FROM ALL EQUIPMENT. DEBRIS SHALL BE REMOVED AS IT ACCUMULATES. UPON COMPLETION OF HIS WORK, THE CONTRACTOR SHALL CLEAN ALL EQUIPMENT. NO LOOSE PARTS OR SCRAPS OF EQUIPMENT SHALL BE LEFT ON THE PREMISES.
- ALL MATERIALS SALVAGED FOR THE OWNER SHALL BE STORED BY CONTRACTOR UNTIL END OF PROJECT THEN RETURNED TO THE OWNER.
- ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE AS DEFINED BY THE CONTRACT. THE CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS/HER OWN EXPENSE WHEN ORDERED TO DO SO, ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN SAID PERIOD OF TIME. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED, AS INTERPRETED BY THE ENGINEER. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMAN IN A NEAT, WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS, AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROTECTION OF PERSONS AND PROPERTY, PROVIDING SAFE WORKING CONDITIONS THROUGHOUT THE WORK PROGRESS, PROVIDING TEMPORARY COVERINGS FOR OPENINGS THROUGH WALLS OR FLOORS, AND PROVIDING TEMPORARY BARRIERS, PARTITIONS AND/OR DUST BARRIERS WHERE REQUIRED TO MAINTAIN OSHA AND THE OWNER'S SAFETY STANDARDS AND TO PREVENT DAMAGE TO PROPERTY. ALL AREAS ADJACENT TO THE CONSTRUCTION AREA OR AFFECTED BY THE CONSTRUCTION MUST BE PROTECTED FROM DAMAGE, CLEANED, AND RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EYEWEAR FOR ALL PERSONNEL WHO ARE REQUIRED TO HANDLE HAZARDOUS CHEMICAL PRODUCTS OR WORK IN HAZARDOUS LOCATIONS.
- DO NOT DISTURB ASBESTOS CONTAINING MATERIALS (ACM) IF ACM ARE ENCOUNTERED OR SUSPECTED DURING THE COURSE OF WORK. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER AND ACCOMMODATE FURTHER NECESSARY ABATEMENT BY THE OWNER. ASBESTOS ABATEMENT SHALL OCCUR PRIOR TO CONTRACTOR COMMENCING OR CONTINUING DEMOLITION OR CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL DIRECT ALL QUESTIONS TO THE OWNER. THE CONTRACTOR SHALL VERIFY ALL WORKING CONDITIONS SUCH AS STARTING TIME, NOISE AND VIBRATION LIMITATIONS, CONFINED SPACE, ETC. THROUGH THE OWNER AND APPROVAL SHALL BE RECEIVED TO START WORK.
- THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY THE SCOPE OF WORK REQUIRED INCLUDING ALL EXISTING CONDITIONS, LOCATIONS, DIMENSIONS, AND QUANTITIES AS SHOWN AND NOTED ON THE DRAWINGS AND THE EXTENT AND EFFECT OF EXISTING SYSTEMS. NOTIFY THE OWNER IF ANY OF THE WORK CANNOT BE SAFELY ACCESSED.
- THE CONTRACTOR SHALL ENSURE FULL COORDINATION WITH OTHER TRADES AND CONTRACTORS TO ACCOMPLISH THE WORK AS SHOWN AND NOTED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPARE THE DRAWINGS OF OTHER TRADES AND REPORT ANY DISCREPANCIES TO THE OWNER.
- NOT ALL EXISTING UTILITIES ARE SHOWN FOR CLARITY OF THE DRAWING. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO FABRICATION AND/OR PURCHASE OF ANY MATERIAL. CONTACT THE OWNER SHOULD EXISTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS. CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES, CLEARANCES AND CERTIFICATES FROM THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION AS REQUIRED PRIOR TO THE COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL TRAIN HIS/HER EMPLOYEES AND SUBCONTRACTORS AS REQUIRED BY THE OWNER, IN THE RECOGNITION AND AVOIDANCE OF UNSAFE CONDITIONS, AND IN THE REGULATIONS AND HAZARDS WHICH APPLY TO THE AREA IN WHICH THE WORK WILL TAKE PLACE.
- ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATIVES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
- SUBMITTALS
 - ALL SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER. ALL SUBMITTALS NOT REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW. AFTER REVIEW HAS BEEN COMPLETED, SUBMIT A COPY OF EACH SUBMITTAL TO THE OWNER WITH THE APPROVAL SEAL OF THE ENGINEER AND THE CONTRACTOR. SUBMITTALS SHALL BE APPROVED PRIOR TO STARTING ANY WORK.
 - SUBMIT MATERIAL SAFETY DATA SHEETS AND MANUFACTURER'S CURRENT RECOMMENDED METHOD OF INSTALLATION TO THE OWNER FOR ALL MATERIALS USED TO PERFORM THE WORK INDICATED BY THESE DOCUMENTS. ALL CHEMICALS OR CHEMICAL COMPOUNDS PROPOSED FOR USE ON THE PROPERTY INCLUDING, BUT NOT LIMITED TO PAINT THINNERS, SOLVENTS, ADHESIVES, SEALANTS, CLEANING COMPOUNDS, EPOXIES, ETC. MUST BE APPROVED BY THE OWNER.
 - PROVIDE PRODUCT DATA SUBMITTALS ON ALL MAJOR EQUIPMENT, COMPONENTS, AND MATERIALS SPECIFIED IN THESE PLANS FOR ENGINEER'S AND OWNER'S REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION. SUBMIT CATALOG DATA SHOWING MANUFACTURER'S NAME AND CONTACT INFORMATION, ALL STANDARD FEATURES, AMPERAGE, VOLTAGE, A/C RATINGS, DIMENSIONS, WEIGHTS, LISTINGS & PRODUCT LABELS, MATERIAL TYPES, FINISHES, AND CLEARLY INDICATING WHICH OPTIONAL FEATURES WILL BE PROVIDED. EACH SUBMITTAL SHALL INCLUDE A COPY OF THE RELEVANT EQUIPMENT OR MATERIALS SCHEDULE ON THE PLANS AND SPECIFICATION SECTION WITH EACH LINE ITEM MARKED COMPLIES OR DOES NOT COMPLY WITH THE REQUIREMENTS.
 - WHERE MULTIPLE SIZES ARE LISTED, INDICATE SIZES TO BE USED.
 - WHERE MULTIPLE PRODUCTS ARE SHOWN ON THE SAME PAGE, INDICATE WHICH PRODUCTS TO BE USED.
 - INCLUDE ALL RELEVANT ELECTRICAL DIAGRAMS INCLUDING SCHEMATIC AND INTERCONNECTION DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING.
 - PROVIDE SHOP DRAWINGS SHOWING ALL DUCTWORK, PIPING AND CONDUIT 2" AND ABOVE, AND ALL MAJOR EQUIPMENT AND HOUSEKEEPING PADS. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER, IN LIEU OF THE PREPARATION OF SHOP DRAWINGS IS FORBIDDEN. SHOP DRAWINGS RECEIVED BEARING THE ENGINEER'S TITLE AND SEAL SHALL BE PROMPTLY REJECTED.
 - ALL SUBMITTALS SHALL BE PROVIDED IN PDF FORMAT.
- SHOULD ANY ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST IN THE DRAWINGS, THE CONTRACTOR SHALL BRING THESE TO THE ATTENTION OF THE OWNER IMMEDIATELY FOR ADJUSTMENT IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK. OTHERWISE, HE/SHE SHALL AT HIS/HER OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECT CAUSED BY SUCH UNINTENTIONAL ERROR.
- CONTRACTOR SHALL CHECK ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND CONFIRM THAT THE WORK IS BUILDABLE AS SHOWN AND MEETS ALL APPLICABLE CODES BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNER BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
- THE CONTRACTOR SHALL NOT FABRICATE OR INSTALL ITEMS AS SHOWN ON THE DRAWINGS IF THERE ARE DISCREPANCIES OR CONFLICTS BETWEEN THE EXISTING CONDITIONS AND THE INFORMATION SHOWN ON THE DRAWINGS UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED. PRIOR TO FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL IMMEDIATELY CALL SUCH DISCREPANCIES OR CONFLICTS TO THE ATTENTION OF THE OWNER AND THE ENGINEER.
- ALL WORK NOTED "NIC" OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY ANOTHER CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT.
- IN CASES OF A DIFFERENCE BETWEEN THE MINIMUM REQUIREMENTS OF THE VARIOUS LAWS, CODES, AUTHORITIES, AND THE DOCUMENTS, THE WORK SHALL MEET THE GREATER OR MORE STRINGENT REQUIREMENTS.
- THE SEQUENCE OF CONSTRUCTION AND ANY SERVICE OUTAGES SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER.
- WORK AREAS SHALL BE KEPT CONTINUOUSLY, AT ALL TIMES, FREE OF DEBRIS AND NON-HAZARDOUS MATERIAL TO THE SATISFACTION OF THE OWNER. ALL EXISTING PIPING AND CONDUITS SHALL HAVE TEMPORARY PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE STORAGE OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK WITH THE OWNER. AFTER PROJECT COMPLETION, THE SITE SHALL BE CLEANED UP AND RESTORED TO ITS ORIGINAL CONDITION OR BETTER PRIOR TO THE START OF THE PROJECT TO THE SATISFACTION OF THE OWNER.
- THE DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK OR INDICATE ALL OFFSETS THAT MAY BE REQUIRED. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS. MAKING ADJUSTMENTS TO FIELD CONDITIONS IS CONSIDERED A PART OF THE WORK REQUIRED.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- CONTRACT CLOSEOUT: INCLUDE THE FOLLOWING:
 - RECORD DRAWINGS
 - THE CONTRACTOR SHALL MAINTAIN TWO SETS OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES SO THAT ALL CHANGES BETWEEN THE DRAWINGS AND THE ACTUAL CONSTRUCTION CAN BE NOTED ON THE DRAWINGS. THIS INCLUDES ALL DEVIATIONS FROM THE ORIGINAL CONTRACT. THE CONTRACTOR SHALL INDICATE ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING THE INSTALLATION OF THE WORK IN RED INK ON TWO SETS OF PRINTS. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL SIGN AND DATE THE DRAWINGS CERTIFYING THAT THEY ARE AN ACCURATE REFLECTION OF THE ACTUAL CONSTRUCTION.
 - OPERATIONS AND MAINTENANCE DATA: SUBMIT O&M DATA IN PDF FORMAT WITH COVER PAGE AND INDEX. INCLUDE THE FOLLOWING FOR EACH PIECE OF EQUIPMENT: MAINTENANCE INSTRUCTIONS, PARTS LIST, OPERATING INSTRUCTIONS, WARRANTY DOCUMENTS AND FINAL APPROVED SUBMITTAL.
 - TEST & BALANCE REPORTS IN PDF FORMAT.

MEP GENERAL CONDITIONS (CONT.)

- ALL STRUCTURAL ENGINEERING AS IT PERTAINS TO ATTACHING MEP ELEMENTS INCLUDING BUT NOT LIMITED TO EQUIPMENT, PIPE, DUCTWORK AND CONDUIT TO THE BUILDING STRUCTURE AND ROOF SHALL BE PROVIDED BY THE STRUCTURAL ENGINEER UNLESS NOTED OTHERWISE. DESIGN SHALL INCLUDE SUPPORTS AND WIND-LOADING AND SEISMIC RESTRAINTS FOR ALL MEP ELEMENTS INSTALLED ON THE ROOF. DESIGN SHALL ALSO INCLUDE DESIGN OF SEISMIC RESTRAINTS FOR ALL HANGERS AND SUPPORTS OF MEP ELEMENTS. CONTRACTOR SHALL SUBMIT DESIGN REACTION FORCES TO THE PROJECT STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING WORK AS REQUIRED TO INSTALL THE SYSTEMS AS SHOWN ON THE DRAWINGS. ANY CUTTING THRU STRUCTURAL MEMBERS OR FLOORS SHALL FIRST BE APPROVED BY THE OWNER AND STRUCTURAL ENGINEER. ALL PATCHING AT WALLS SHALL BE THE SAME MATERIAL AS THE WALL AND TOUCHED UP WITH PAINT. ALL NEW WALL AND FLOOR PENETRATIONS SHALL BE MADE AT 90 DEGREE ANGLES. THERE SHALL BE NO DRILLING INTO THE FLOOR FROM ABOVE OR BELOW WITHOUT FIRST CONTACTING THE OWNER, AND STRUCTURAL ENGINEER.
- PRIOR TO ANY CUTTING OR TRENCHING, VERIFY WITH OWNER, UTILITY COMPANIES, AND LANDLORD THAT ALL AVAILABLE INFORMATION IS KNOWN REGARDING UNDERGROUND OBSTRUCTIONS. TAKE CAUTION WHEN TRENCHING NOT TO DISTURB ANY EXISTING UTILITIES. NOTIFY OWNERS REPRESENTATIVE IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. REFER TO CIVIL-SITE DRAWINGS FOR BURIED PIPE TRENCHING AND BACKFILL SPECIFICATIONS AND DETAILS.
- CONTRACTOR TO PROVIDE START-UP AND COMMISSIONING SUPPORT SERVICES FOR ALL NEW SYSTEMS AND EQUIPMENT, AS WELL AS TRAINING SERVICES FOR THE OWNER'S MAINTENANCE PERSONNEL IN THE USE OF THESE SYSTEMS AND EQUIPMENT. CONTRACTOR SHALL ALSO ASSIST TEST & BALANCE CONTRACTOR AND THE COMMISSIONING AGENT AS REQUIRED.
- CONTRACTOR TO COORDINATE FINAL INSPECTION OF THE WORK WITH THE OWNER AND ENGINEER, AND DEMONSTRATE PROPER FUNCTIONALITY OF ALL NEW SYSTEMS.
- CONTRACTOR TO COORDINATE ALL SYSTEM OUTAGES WITH THE OWNER; PROVIDE MINIMUM TWO WEEKS NOTICE.

GENERAL MEP NOTES

- ALL NEW OPENINGS THROUGH FLOORS, ROOF, STRUCTURAL WALLS, AND STRUCTURAL MEMBERS (WHERE APPROVED BY THE OWNER) AND INSTALLATION OF ROOF-MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT AND DESIGNED BY THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH SHEAR WALLS ARE PROHIBITED.
- DUCT, PIPE AND CONDUIT ROOF PENETRATIONS:
 - ALL DUCT, PIPE, AND CONDUIT ROOF PENETRATIONS SHALL BE THROUGH AN INSULATED, FACTORY-MANUFACTURED FULLY-WELDED GALVANIZED STEEL ROOF CURBS. CURBS MUST EXTEND 14" ABOVE THE FINISHED SURFACE OF THE ROOF AND SHALL BE SLOPED TO MATCH ROOF. SHALL MATCH ROOF MANUFACTURER'S REQUIREMENTS, AND SHALL BE INSTALLED TO MAINTAIN ROOF WARRANTY. ATTACH CURB TO ROOF PER STRUCTURAL ENGINEER'S DESIGN. IF DESIGN IS NOT INCLUDED IN PROJECT STRUCTURAL ENGINEER'S SCOPE, THE DESIGN SHALL BE PERFORMED BY THE CONTRACTOR'S LICENSED STRUCTURAL ENGINEER.
 - ENTIRE ASSEMBLY SHALL BE DESIGNED TO WITHSTAND ALL IBC AND ASCE-7 WINDLOADING REQUIREMENTS FOR BUILDINGS LESS THAN 60' HIGH (revise if >60' high). THIS SPECIFICALLY APPLIES TO THE ATTACHMENT TO THE ROOF AND THE REQUIRED RESTRAINTS NECESSARY TO COMPLY WITH IBC AND ASCE-7, AS WELL AS ASSOCIATED DUCTWORK, PIPING, AND EQUIPMENT PLATFORMS ABOVE THE ROOF.
 - CONTRACTOR SHALL PROVIDE STAINLESS STEEL FLASHING TO SEAL BETWEEN THE DUCT / PIPE AND THE ROOF CURB.
 - FLUES AND VENT STACKS SHALL MAINTAIN CLEARANCE FROM COMBUSTIBLE CONSTRUCTION AND INSULATED ASSEMBLIES IN ACCORDANCE WITH THE VENT MANUFACTURER'S INSTRUCTIONS. TOP WITH BIRD PROOF FLUE CAP.
 - THE WEIGHT OF ALL DUCTS PENETRATING THE ROOF SHALL BE SUPPORTED FROM BELOW-ROOF STRUCTURE, NOT AT THE ROOF CURB.
 - COORDINATE LOCATIONS OF EXISTING AND NEW ROOF PENETRATIONS TO MINIMIZE NUMBER OF OPENINGS. ELECTRICAL AND REFRIGERANT LINES ARE TO USE THE SAME PENETRATIONS WHERE POSSIBLE.
- COORDINATE ALL ROOF WORK WITH OWNERS ROOFING CONTRACTOR TO MAINTAIN THE WARRANTY.
- PIPE AND CONDUITS PENETRATING FIRE-RATED FLOORS AND WALLS:
 - A UL-RATED FIRESTOP SYSTEM SHALL BE INSTALLED AT ALL PIPE PENETRATIONS THROUGH SMOKE AND/OR FIRE-RATED FLOORS AND WALLS. FIRESTOP SYSTEM SHALL BE SUITABLE FOR THE FLOOR AND WALL TYPE, MATERIALS OF CONSTRUCTION, AND PIPE MATERIALS. RATINGS SHALL MATCH FIRE BARRIER RATINGS. ONLY PRODUCTS BY A SINGLE MANUFACTURER SHALL BE USED ON THE PROJECT. APPROVED MANUFACTURERS ARE STI, 3M AND HILTI. INSTALLERS SHALL BE CERTIFIED BY THE FIRESTOP SYSTEM MANUFACTURER. CONTRACTOR TO PROVIDE INVENTORY OF ALL PENETRATIONS.
 - PIPE WEIGHT SHALL BE SUPPORTED AT THE FLOOR OR FROM HANGERS TO EITHER SIDE OF THE WALL OR FLOOR; PIPE WEIGHT SHALL NOT BE SUPPORTED BY THE WALL.
 - INSULATION AND VAPOR BARRIER SHALL BE CONTINUOUS THROUGH THE PENETRATION.
 - FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT AT THE TOP OF THE FLOOR.
- PIPE AND CONDUITS PENETRATING NON-FIRE RATED FLOORS AND WALLS INCLUDING SLAB ON GRADE:
 - WEIGHT SHALL BE SUPPORTED AT THE FLOOR OR FROM HANGERS ABOVE OR BELOW THE FLOOR. PIPE WEIGHT SHALL NOT BE SUPPORTED BY THE WALL.
 - INSULATION AND VAPOR BARRIER SHALL BE CONTINUOUS THROUGH THE FLOOR.
 - FLOOR PENETRATION SHALL BE SLEEVED WITH MINIMUM 16 GA. GALVANIZED STEEL EXTENDING 2" ABOVE THE SLAB AND SEALED WATER TIGHT.
 - WHERE FLOOR OR WALL PENETRATIONS ARE EXPOSED IN OCCUPIED SPACES, ESCUTCHEON PLATES SHALL BE INSTALLED TO COVER THE OPENING.
 - PENETRATIONS THROUGH EXTERIOR WALLS TO BE SEALED WATERTIGHT.
- NO ASBESTOS CONTAINING MATERIALS SHALL BE USED IN ANY OF THE NEW CONSTRUCTION.
- ALL INSULATING MATERIALS AND ALL MATERIALS USED IN PLENUMS SHALL BE PLENUM RATED AND SHALL CONFORM TO ASTM E 84, HAVING A PLENUM FLAME SPREAD OF <25 AND A MAXIMUM SMOKE DEVELOPED RATING OF <50.
- EQUIPMENT SCHEDULED ON THE DRAWINGS IS BASED UPON EQUIPMENT OF MANUFACTURER NOTED. EQUIPMENT FROM ANOTHER MANUFACTURER MAY BE USED PROVIDED THAT THE CONTRACTOR SUBMIT PROOF THAT THE EQUIPMENT TO BE USED IS EQUAL TO OR BETTER THAN THAT SCHEDULED ON THE DRAWINGS AND IS APPROVED BY THE OWNER AND ENGINEER. PRICE SPECIFIED ITEM AS WELL AS PROPOSED SUBSTITUTION.
- INVERTER READY MOTORS SHALL BE PROVIDED WITH AEGIS SHAFT GROUNDING RING, COOLBLUE INDUCTIVE ABSORBERS, OR CERAMIC BEARINGS AND CLASS F 105° C RISE INSULATION. REFERENCE NEMA MG1 PART 31.
- PROVIDE TEFC MOTORS FOR ALL WET LOCATIONS AND ALL OUTDOOR LOCATIONS.
- LOCATION OF NEW EQUIPMENT IS APPROXIMATE WHERE SHOWN. IF THERE IS A CONFLICT WITH AN EQUIPMENT LOCATION SHOWN ON THE PLANS, DO NOT PROCEED UNTIL THE ENGINEER APPROVES A NEW LOCATION.
- INSTALL ALL NEW EQUIPMENT WITH MANUFACTURER-RECOMMENDED CLEARANCES ON ALL SIDES FOR SERVICE AND MAINTENANCE AS WELL AS REMOVAL OF INDIVIDUAL COMPONENTS WITHOUT REMOVING THE ENTIRE UNIT. PROVIDE NEC-REQUIRED CLEARANCE IN FRONT OF LINE VOLTAGE CONTROL PANELS; MINIMUM 3'.
- DUCTWORK, PIPING, CONDUIT, CABLING, ETC. SHOWN ON EACH PLAN IS RUN ABOVE THE CEILING ON THE FLOOR WHERE IT IS SHOWN UNLESS OTHERWISE NOTED.
- DUCTWORK, PIPING, CONDUIT, CABLING, ETC. SHOWN ON DRAWINGS SHALL BE COORDINATED WITH AIR DISTRIBUTION DEVICES, SPECIAL CEILING, FLOOR, AND STRUCTURE CONSTRUCTION, ETC. PROVIDE ADDITIONAL RISES AND DROPS TO THOSE INDICATED ON THE DRAWINGS AS REQUIRED TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL OR MEP ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS. ALL UTILITIES SHALL BE ROUTED IN AN ORDERLY MANNER, GROUPED TOGETHER WHEREVER POSSIBLE, AND LOCATED SO AS TO CONSERVE BUILDING SPACE.
- COORDINATION OF ALL TRADES IN CEILING SPACES TO ALLOW AN 8-INCH CLEAR PLANE FOR LOCATION OF LIGHTS IS OF UTMOST IMPORTANCE TO MAXIMIZE FUTURE FLEXIBILITY. REALIZING THAT THIS IS NOT POSSIBLE IN ALL CASES, DUE TO CEILING ELEVATION AND STRUCTURAL LIMITATIONS, MAXIMUM EFFORT SHALL BE GIVEN TO MAINTAINING THE 8-INCH LIGHTING PLANE UNLESS NOTED OTHERWISE.
- MAINTAIN MINIMUM VERTICAL CLEARANCE OF 7'-6" FROM THE FLOOR TO THE BOTTOM OF DUCTWORK, PIPING, AND ASSOCIATED HANGERS AND SUPPORTS UNLESS NOTED OTHERWISE ON THE PLANS.
- POWDER ACTUATED FASTENERS ARE NOT ALLOWED.
- PROVIDE AND INSTALL MINIMUM 2 1/2" LONG X 3/4" WIDE ENGRAVED PHENOLIC PLASTIC EQUIPMENT TAGS, BLACK LETTERS ON WHITE BACKGROUND, FOR ALL EQUIPMENT TO MATCH TAGS INDICATED ON PLANS. IF EXISTING TAGS ARE PRESENT EITHER FROM THE MANUFACTURER OR EXISTING CONDITIONS, COVER OR PAINT OVER THE OLD TAG AS REQUIRED TO ELIMINATE CONFLICTING TAG NAMES. LABEL THERMOSTATS TO MATCH UNIT DESIGNATION. INDICATE ELECTRICAL PANEL AND CIRCUIT BREAKER NUMBER IDENTIFICATION ON NAMEPLATE IN SMALLER LETTERS IN PARENTHESSES.
- U.N.O. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED MEP EQUIPMENT. INCLUDING EQUIPMENT MOUNTED ON VIBRATION ISOLATORS, BASE RAILS AND CONCRETE INERTIA BASES. CONTRACTOR TO COORDINATE LOCATIONS AND SIZES. REFER TO DETAIL ON THIS SHEET.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

MEP RESPONSIBILITY MATRIX

| | FURNISH | INSTALL | POWER |
|--------------------------------------|---------|---------|-----------|
| | | | 120V & UP |
| HANGERS & SUPPORTS, INCLUDING DESIGN | ALL | ALL | |
| DUCT SMOKE DETECTORS | MC | MC | EC |
| STARTERS, DISCONNECTS - FWE | FWE | FWE | EC |
| STARTERS, DISCONNECTS - NOT FWE | EC | EC | EC |
| HEAT TRACE | MC | MC | EC |
| DAMPERS - FWE - PACKAGED EQUIPMENT | FWE | FWE | |
| DAMPERS - FWE - AHU'S | FWE | FWE | |
| DAMPERS - SEPARATE FROM EQUIPMENT | | MC | |

NOTES:

- FOLLOW THE RESPONSIBILITIES SHOWN ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
- ABBREVIATIONS

| | | |
|-------------------------------------|---------------------------|---------------------------|
| FWE: FURNISHED WITH EQUIPMENT | FA: FIRE ALARM CONTRACTOR | EC: ELECTRICAL CONTRACTOR |
| ALL: ALL CONTRACTORS, BY DISCIPLINE | MC: MECHANICAL CONTRACTOR | |

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THE GENERAL CONTRACTOR AND/OR ALL SUB-CONTRACTORS WORKING FROM THESE PLANS AND SPECIFICATIONS ARE NOT TO SCALE SUCH INFORMATION BUT TO CONTACT THE ARCHITECT OR HIS REPRESENTATIVE REGARDING MEASUREMENTS, IF SUCH MEASUREMENTS DO NOT APPEAR CORRECT, ADD UP PROPERLY OR SCALE CORRECTLY TO THE INDICATED SIZE.

ENGINEER



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State of Registration Florida
Firm Registration No. 26645

PROJECT NUMBER: 250486 DATE: 02.25.26

DRAWN BY: SL CHECK BY: JTS

THESE DRAWINGS WERE COMPLETED UNDER THE DIRECT SUPERVISION OF: JTS

REVISION LOG:

ISSUED FOR CLIENT: 02.25.26
ISSUED FOR LL PERMIT + BID: 03.06.23

CARRIAGE GATE SHOPPING CENTER
3425 THOMASVILLE RD
SPACE 7
TALLAHASSEE, FL 32309

DRAWING NO.

M-100

MEP GENERAL NOTES

JEREMY T. SMITH

EEA CONSULTING ENGINEERS

BID DOCUMENT ONLY

Not Intended for Construction or Permit. This document is released under the authority of:

Registrant's Name: Jeremy T. Smith
Serial No. 941482

DATE: 02/25/26

PROJECT NO: 250486

LOCATION: CARRIAGE GATE, TALLAHASSEE FL

PLOT SCALE: 1:1

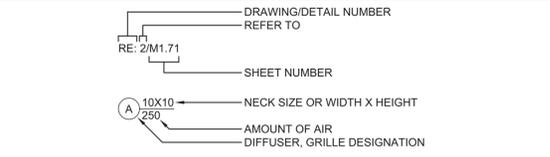
MECHANICAL SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

GENERAL NOTES

- PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS.
- THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC. FROM THE ARCHITECTURAL DRAWINGS, FIELD MEASUREMENTS, AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC.) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID.
- CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. NOTIFY THE ARCHITECT OF ANY CONFLICTS.
- BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTOR'S FAILURE TO FIELD COORDINATE.
- THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE.
- PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS, OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE MECHANICAL EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK.
- COORDINATE ELECTRICAL REQUIREMENTS OF APPROVED MECHANICAL EQUIPMENT WITH THE ELECTRICAL SUB-CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL EQUIPMENT, DEVICES, WIRING, OR CONDUIT.
- PROVIDE GENERAL CONTROL WIRING, THERMOSTATS, MOTORIZED DAMPERS AND CONDUIT ASSOCIATED WITH HVAC EQUIPMENT. COORDINATE THE LOCATION OF ALL THERMOSTATS, ROOM SENSORS, ETC. WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO INSTALLATION. IF A CONFLICT WITH MILLWORK, LIGHT SWITCHES, WINDOWS, ETC. EXISTS, NOTIFY THE ARCHITECT OF THE POTENTIAL INTERFERENCE PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH PROTECTIVE LOCKING COVER, CENTERED AT 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE TEXAS ACCESSIBILITY'S STANDARD (TAS).
- ALL DIMENSIONS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE NET INSIDE CLEAR DIMENSIONS. FOR RECTANGULAR DUCT, THE FIRST FIGURE OF THE DUCT SIZE INDICATES THE DIMENSION OF THE FACE SHOWN. VERIFY THAT THE DUCTWORK SPECIFIED WILL FIT IN THE SPACE AVAILABLE USING THE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AS REFERENCE PRIOR TO FABRICATION AND INSTALLATION.
- PROVIDE TURNING VANES ON ALL RECTANGULAR SUPPLY, EXHAUST, AND RETURN DUCTWORK INCLUDING THE TOP AND BOTTOM OF VERTICAL DUCTS UNLESS OTHERWISE INDICATED.
- PROVIDE A LOCKING QUADRANT VOLUME DAMPER AT THE TAP OF EACH RUN-OUT TO DIFFUSERS FOR BALANCING PURPOSES, UNLESS OTHERWISE INDICATED. THE RUN-OUT DUCT SIZE IS THE SAME SIZE AS THE DIFFUSER OR GRILLE NECK SIZE, UNLESS OTHERWISE INDICATED.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS AND CEILINGS. PROVIDE FIRE DAMPERS AND/OR COMBINATION FIRE/SMOKE DAMPERS IN DUCTWORK AT ALL LOCATIONS WHERE DUCTS PASS THROUGH FIRE RATED ASSEMBLY. MECHANICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING FIRE AND FIRE/SMOKE DAMPERS. COORDINATE CONSTRUCTION REQUIREMENTS AND PROVISIONS FOR CONNECTIONS TO FIRE ALARM SYSTEM.
- ALL DUCTWORK SHALL BE SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCTWORK ASSOCIATED WITH CONSTANT VOLUME SYSTEMS SHALL BE CONSTRUCTED TO 2" W.G. AND SEALED TO SMACNA CLASS A. SEAL ALL SEAMS WITH MASTIC SEALANT UL 181 LISTED FOR THE APPLICATION USED. SEALANT SHALL BE DESIGNED FOR USE ON METAL DUCT AND FLEXIBLE DUCT.
- SUPPLY AND RETURN DUCTWORK LOCATED OUTSIDE, EXPOSED TO AMBIENT CONDITIONS, SHALL BE INTERNALLY LINED WITH 2" DUCT LINER. DUCTWORK SHALL BE WELDED STAINLESS STEEL. LINER SHALL BE FOIL-FACED, SUITABLE FOR HEALTHCARE APPLICATION; OTHERWISE USE DOUBLE WALL CONSTRUCTION. BREAK SHEET METAL IN A MANNER TO PREVENT STANDING WATER ON HORIZONTAL SURFACES. SEAL ALL SEAMS WITH MASTIC SEALANT UL 181 LISTED FOR THE APPLICATION USED. SEALANT SHALL BE DESIGNED FOR USE ON METAL DUCT AND FLEXIBLE DUCT.
- ALL RECTANGULAR AND ROUND SUPPLY AND RETURN DUCTWORK LOCATED IN EXPOSED INTERIOR AREAS SHALL BE INTERNALLY LINED WITH DUCT LINER AND EXTERNALLY PAINTED. REFER TO ARCHITECT FOR COLOR SELECTION.
- INSTALL DX PIPING AS SPECIFIED, INCLUDING FILTER/DRYER, SIGHT GLASS, ISOLATION/CHARGING VALVES, AND ALL APPURTENANCES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL BE ACCOMPLISHED IN A NEAT AND ORDERLY FASHION, AS APPROVED BY THE ENGINEER. COORDINATE FOR ROUTING OF DX PIPING, UP INSIDE OF WALLS, ETC. AS REQUIRED, TERMINATING AT AHU's. PROVIDE BRACING/ISOLATION AS REQUIRED TO PREVENT VIBRATION OF DX PIPING INSIDE WALLS, ETC. SIZE, ROUTE, AND INSULATE DX PIPING PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATION REQUIREMENTS.
- PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN EQUIPMENT, UNLESS OTHERWISE NOTED. PROVIDE ISOLATION AS INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- SOME PIPES AND DUCTS SHOWN ON EACH FLOOR PLAN MAY BE SHOWN WITH AN OFFSET FOR CLARITY.
- SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL.
- ALL EQUIPMENT SHALL HAVE IDENTIFICATION TAGS. TAGS SHALL BE PLASTIC LAMINATE, WHITE FACE WITH 1/2" TALL BLACK LETTERS. THE TAG SHALL MATCH THE UNIT DESIGNATIONS SHOWN ON THE SCHEDULES.
- EXPAND OR REDUCE DUCTS AT EQUIPMENT CONNECTIONS BASED ON THE EQUIPMENT PURCHASED, WITH TRANSITIONS NOT TO EXCEED 30 DEGREES. SIZES SHOWN ON SCHEDULES, ETC. ARE FOR GUIDANCE ONLY. ASPECT RATIO SHALL BE NO GREATER THAN 4:1, PER SMACNA'S GUIDELINES.
- ALL DUCTS WITH A DIMENSION GREATER THAN 12" PASSING THRU A NON-RATED WALL SHALL HAVE THE OPENING FRAMED IN WITH METAL STUDS. COORDINATE OPENING SIZE AND LOCATION WITH OTHER TRADES.
- ALL INSULATING MATERIALS AND ALL MATERIALS USED IN PLENUMS SHALL BE PLENUM RATED AND SHALL CONFORM TO ASTM E 84, HAVING A MAXIMUM FLAME SPREAD OF <25 AND A MAXIMUM SMOKE DEVELOPED RATING OF <50.
- THE OWNER SHALL BE RESPONSIBLE TO HIRE A COMMISSIONING AGENT, IN ACCORDANCE WITH LOCAL REQUIREMENTS, TO PERFORM ALL PORTIONS OF COMMISSIONING SET FORTH IN THE 2023 FBC - ENERGY CONSERVATION 8TH EDITION CODE WITH AMENDMENTS REQUIRED BY THE LOCAL AHJ. A COMMISSIONING PLAN SHALL BE DEVELOPED BY THE PROJECT'S COMMISSIONING AUTHORITY.

DRAWING/DETAIL REFERENCE



SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|---|
| | SUPPLY AIR DUCT UP |
| | RETURN AIR DUCT UP |
| | EXHAUST AIR DUCT UP |
| | SUPPLY AIR DUCT DN |
| | RETURN AIR DUCT DN |
| | EXHAUST AIR DUCT DN |
| | ROUND SUPPLY AIR DUCT UP |
| | ROUND RETURN AIR DUCT UP |
| | ROUND EXHAUST AIR DUCT UP |
| | ROUND SUPPLY AIR DUCT DN |
| | ROUND RETURN AIR DUCT DN |
| | ROUND EXHAUST AIR DUCT DN |
| | RECTANGULAR DUCT SQUARE ELBOW WITH TURNING VANES |
| | RECTANGULAR DUCT RADIUS ELBOW |
| | TRANSITION CONCENTRIC UNLESS TOP LEVEL (TOP LVL) OR BOTTOM LEVEL (BOT LVL) IS NOTED |
| | THERMOSTAT (OR) TEMP SENSOR |
| | MANUAL VOLUME DAMPER |

BASIS OF MECHANICAL DESIGN

PRIMARY MECHANICAL CODES:
MECHANICAL: 2023 FBC - MECHANICAL 8TH EDITION (AMENDED IMC 2021)
ENERGY: 2023 FBC - ENERGY CONSERVATION 8TH EDITION (AMENDED IECC 2021)

PROJECT DESIGN VALUES:
OUTDOOR DESIGN TEMPERATURE (SUMMER): 96.2°F (DRYBULB), 76.4°F (WETBULB)
AMBIENT TEMPERATURE AT CONDENSING UNITS: 100°F (DRYBULB, SUMMER)
OUTDOOR DESIGN TEMPERATURE (WINTER): 26.9°F (DRYBULB)
INDOOR DESIGN TEMPERATURE (SUMMER): 75°F (DRYBULB), 50% (RELATIVE HUMIDITY)
INDOOR DESIGN TEMPERATURE (WINTER): 68°F (DRYBULB)
OUTSIDE AIR REQUIREMENTS: 2023 FBC - MECHANICAL 8TH EDITION (AMENDED IMC 2021)

NEW VOLUME DAMPER CABLE CONTROLS

| TYPE | DESCRIPTION |
|------|--|
| VD-1 | PROVIDE VOLUME DAMPER MODEL 5020CC FROM YOUNG REGULATOR. THE VOLUME DAMPER SHALL BE ADJUSTABLE FROM THE FACE OF THE DIFFUSER BY USE OF THE BOWDEN CABLE CONTROL SYSTEM (#270-275 CONTROLLER) MANUFACTURED BY YOUNG REGULATOR COMPANY OR APPROVED EQUIVALENT. DAMPER MUST BE INSTALLED WITHIN 30 FEET FROM THE FACE OF THE DIFFUSER. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. YOUNG REGULATOR (440) 232-9700. |

NEW SENSOR SCHEDULE

| MARK | MANUFACTURER | MODEL | CFM | LOCATION | ESP | RPM | VOLTAGE / PHASE | HP (WATTS) | NOTES |
|------|--------------|---------|-----|----------|-----|-----|-----------------|------------|---------|
| EF-1 | GREENHECK | SP-A110 | 75 | CEILING | 0.3 | 950 | 115/1 | 17 | 1,2,3,4 |

NOTES:
1. PROVIDE BACKDRAFT DAMPER, VIBRATION ISOLATORS & DISCONNECT SWITCH.
2. INTERLOCK WITH LIGHT SWITCH/OCCUPANCY SENSOR.
3. CEILING FAN SUSPENDED FROM STRUCTURE ABOVE.
4. PROVIDE UNIT WITH HANGING VIBRATION ISOLATORS KIT

CARRIER HEAT RTU SCHEDULE

| Design conditions | | Summer | | Winter | RTU SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------------|-------------|--------------------|-------------|---------------|-----|-----|-------------|-------------|-----------|------|------|------------------|------|--------------|----------------|-------|------------|------|-----|------|-------|---------|---------|-------|
| | | DB | WB | DB | | | | | | | | | | | | | | | | | | | | | |
| Outdoor Air | | 96.2 | 76.4 | 26.9 | | | | | | | | | | | | | | | | | | | | | |
| Space Temp | | 72 | 61.8 | 68 | | | | | | | | | | | | | | | | | | | | | |
| General | | | | | Fan | | | | Cooling | | | | Electric Heating | | | AHR | | Electrical | | | | | | | |
| Mark | Model | Size (Tons) | WEIGHT (LB) +/- 5% | Refrigerant | Airflow (CFM) | | | Duct Config | Motor (BHP) | ESP (IWG) | EAT | | LAT | | CU Amb. (°F) | Capacity (MBH) | | EAT | LAT | kW | SEER | SEER2 | MCA (A) | MOC (A) | V/PH |
| | | | | | SA | OA | %OA | | | | DB | WB | DB | WB | | Total | Sens. | DB | DB | | | | MCA (A) | MOC (A) | |
| RTU-1 | 50EQM05A2A5-0A1A0 | 4.0 | 709.0 | R-454B | 1,500 | 220 | 15% | VERTICAL | 0.79 | 0.80 | 76.0 | 64.2 | 56.2 | 54.2 | 100.0 | 44.5 | 31.9 | 61 | 93.0 | 6.0 | 17.0 | 16.0 | 50.0 | 60 | 230/3 |

FACTORY PROVIDED AND INSTALLED OPTIONS:

- THERMAL EXPANSION VALVE (TXV)
- CRANKCASE HEATERS
- THROUGH THE BASE ELECTRIC.
- NON-FUSED DISCONNECTS.
- HINGED ACCESS PANELS.
- ECONOMIZER WITH BAROMETRIC RELIEF WITH DRY BULB CONTROL.
- MICROPROCESSOR CONTROL OPTION.
- HAIL GUARDS.
- PROVIDE WITH MINIMUM TWO STAGE OF HEATING/COOLING

CONTRACTOR INSTALLED ACCESSORIES/OPTIONS:

- FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCTWORK CONNECTIONS FULL SIZE OF OPENINGS.
- (3) SETS OF 2" DEEP PLEATED MERV 13 RATED FILTERS (SUCH AS FAR 30/30 FILTERS).
- 4" HIGH BLACK STENCIL LETTERS ON ALL HVAC INDICATING. HVAC UNIT NUMBER. VERIFY ADDITIONAL REQUIREMENTS WITH LANDLORD.

CARRIER HEAT PUMP SPLIT UNIT SCHEDULE

| General | | Fan | | | | Cooling | | | | Heat Pump Heating | | AHR | | Electrical | | | | | | | | | | | |
|----------|--------------|--------------|-------------|---------------|-----|---------|------|------|--------------|-------------------|-----|------------------|------|------------|------------|------------|-------|-------|-------|------|---------|---------|-------|---------|---------|
| Mark | AHU-1 | CU-1 | Size (Tons) | Airflow (CFM) | | | EAT | LAT | OD Amb. (°F) | Capacity (MBH) | | Refrigerant type | EAT | LAT | Cap. (MBH) | Cap. (MBH) | EER2 | SEER2 | AHU-1 | | CU-1 | | V/PH | | |
| | | | | SA | OA | %OA | | | | DB | WB | | DB | WB | | | Total | Sens. | DB | DB | MCA (A) | MOC (A) | | MCA (A) | MOC (A) |
| AHU/CU-1 | FJ5ANXB24L00 | 27SCA524A003 | 2.0 | 750 | 120 | 16% | 75.9 | 64.1 | 55.9 | 54.7 | 100 | 21.2 | 16.2 | R-454B | 70 | 99 | 23.54 | 21.2 | 12.0 | 15.2 | 3.60 | 15 | 13.50 | 20 | 208/1 |

FACTORY PROVIDED AND INSTALLED OPTIONS:

- THERMAL EXPANSION VALVE (TXV).
- ELECTROMECHANICAL CONTROLS.
- HAIL GUARDS.
- 5-YEAR COMPRESSOR PARTS WARRANTY.
- VARIABLE SPEED ECM SUPPLY FAN MOTOR FOR ENHANCED MODE.
- 1" FILTER.
- SINGLE POINT POWER KIT.
- 2 STAGE COMPRESSOR.

CONTRACTOR PROVIDED AND INSTALLED ITEMS:

- FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCTWORK CONNECTIONS FULL SIZE OF OPENINGS.

CONTRACTOR NOTES:

- PROVIDE MAKE AND MODEL SPECIFIED OR ENGINEER APPROVED EQUAL.
- INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONTRACTOR SHALL SUBMIT REFRIGERANT PIPING SHOP DRAWINGS TO THE HVAC MANUFACTURER FOR REFRIGERANT PIPE SIZES, COMPONENTS, AND REFRIGERANT CHARGE. CAPACITY LOSSES SHALL
- CONTRACTOR TO PROGRAM HVAC EQUIPMENT THERMOSTAT, INITIAL OPERATION HOURS AND TEMPERATURE SET POINTS.
- CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHOULD BE TAKEN TO KEEP COILS CLEAN, AND IF COILS GET DIRTY, THEN CONTRACTOR IS RESPONSIBLE FOR CLEANING THEM.
- CONTRACTOR SHALL REPLACE FILTERS JUST PRIOR TO AIR-BALANCE, AFTER ANY HEAVY SANDING, AND ONCE AGAIN AFTER FINAL CLEANING IS COMPLETE.

AIR DEVICE SCHEDULE

| MARK | SERVES | FACE SIZE | MOUNTING | MATERIAL | MANUFACTURER MAKE AND MODEL (BASIS OF DESIGN) | MAX NC | NOTES |
|------|--------|-----------|----------------|----------|---|--------|------------------|
| S1 | SUPPLY | 24x24 | LAY-IN CEILING | ALUMINUM | KRUEGER SFLQ | 35 | 1, 2, 3, 4, 6 |
| S2 | SUPPLY | 12x12 | CEILING | ALUMINUM | KRUEGER SFLQ | 35 | 1, 2, 3, 4, 6 |
| S3 | SUPPLY | 12" | CEILING | ALUMINUM | INVAIR R1801100 | 30 | 1, 2, 3, 6, 9 |
| LS | SUPPLY | SEE PLANS | CEILING | ALUMINUM | KRUEGER DFL-20 | 35 | 1, 2, 3, 5, 6, 8 |
| R1 | RETURN | 24x24 | CEILING | ALUMINUM | KRUEGER S580 | 35 | 1, 6, 7 |
| R2 | RETURN | 12x12 | CEILING | ALUMINUM | KRUEGER S580 | 35 | 1, 6, 7 |

NOTES:
1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR MOUNTING IN RESPECTIVE CEILING/WALL TYPES AND CONDITIONS OR APPROVED EQUAL.
2. SELECT DIFFUSER PER NECK SIZE. SEE PLANS.
3. TRANSITION FROM BACK OF AIR DEVICE TO DUCT SIZE SHOWN ON PLANS.
4. FOUR-WAY THROW UNLESS OTHERWISE NOTED.
5. LINEAR SLOT DIFFUSER WITH 1-SLOT, 2" WIDE SLOT WITH HT BLADES. PROVIDE WITH FACTORY FABRICATED INSULATED PLENUM BOX. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. ARCHITECT TO SELECT AIR DEVICE FINISH FROM MANUFACTURER'S FULL COLOR CATALOG PRIOR TO ORDERING.
7. PROVIDE WITH 35 DEGREE DEFLECTION.
8. EE BEVELED FRAME FOR MUD-IN. CONNECTED FOR A SEAMLESS LOOK WITH MITERED END CAPS.
9. PROVIDE WITH REMOVABLE FACE. SUBSTITUTION IS NOT ACCEPTABLE.

EXHAUST FAN SCHEDULE

| MARK | MANUFACTURER | MODEL | CFM | LOCATION | ESP | RPM | VOLTAGE / PHASE | HP (WATTS) | NOTES |
|------|--------------|---------|-----|----------|-----|-----|-----------------|------------|---------|
| EF-1 | GREENHECK | SP-A110 | 75 | CEILING | 0.3 | 950 | 115/1 | 17 | 1,2,3,4 |

NOTES:
1. PROVIDE BACKDRAFT DAMPER, VIBRATION ISOLATORS & DISCONNECT SWITCH.
2. INTERLOCK WITH LIGHT SWITCH/OCCUPANCY SENSOR.
3. CEILING FAN SUSPENDED FROM STRUCTURE ABOVE.
4. PROVIDE UNIT WITH HANGING VIBRATION ISOLATORS KIT

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THE GENERAL CONTRACTOR AND/OR ALL SUB-CONTRACTORS WORKING FROM THESE PLANS AND SPECIFICATIONS ARE NOT TO SCALE SUCH INFORMATION BUT TO CONTACT THE ARCHITECT OR HIS REPRESENTATIVE REGARDING MEASUREMENTS, IF SUCH MEASUREMENTS DO NOT APPEAR CORRECT, ADD UP PROPERLY OR SCALE CORRECTLY TO THE INDICATED SIZE.

ENGINEER



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EEA Project No. 20250574
State of Registration Florida
Firm Registration No. 26645

PROJECT NUMBER: 250486
DATE: 02.25.26

DRAWN BY: SL
CHECK BY: JTS

THESE DRAWINGS WERE COMPLETED UNDER THE DIRECT SUPERVISION OF: JTS

REVISION LOG:
ISSUED FOR CLIENT: 02.25.26
ISSUED FOR LL PERMIT + BID: 03.06.23

CARRIAGE GATE SHOPPING CENTER
3425 THOMASVILLE RD
SPACE 7
TALLAHASSEE, FL 32309

DRAWING NO.
M-101
MECHANICAL LEGEND, NOTES, AND SCHEDULES

JEREMY T. SMITH

EEA CONSULTING ENGINEERS

BID DOCUMENT ONLY

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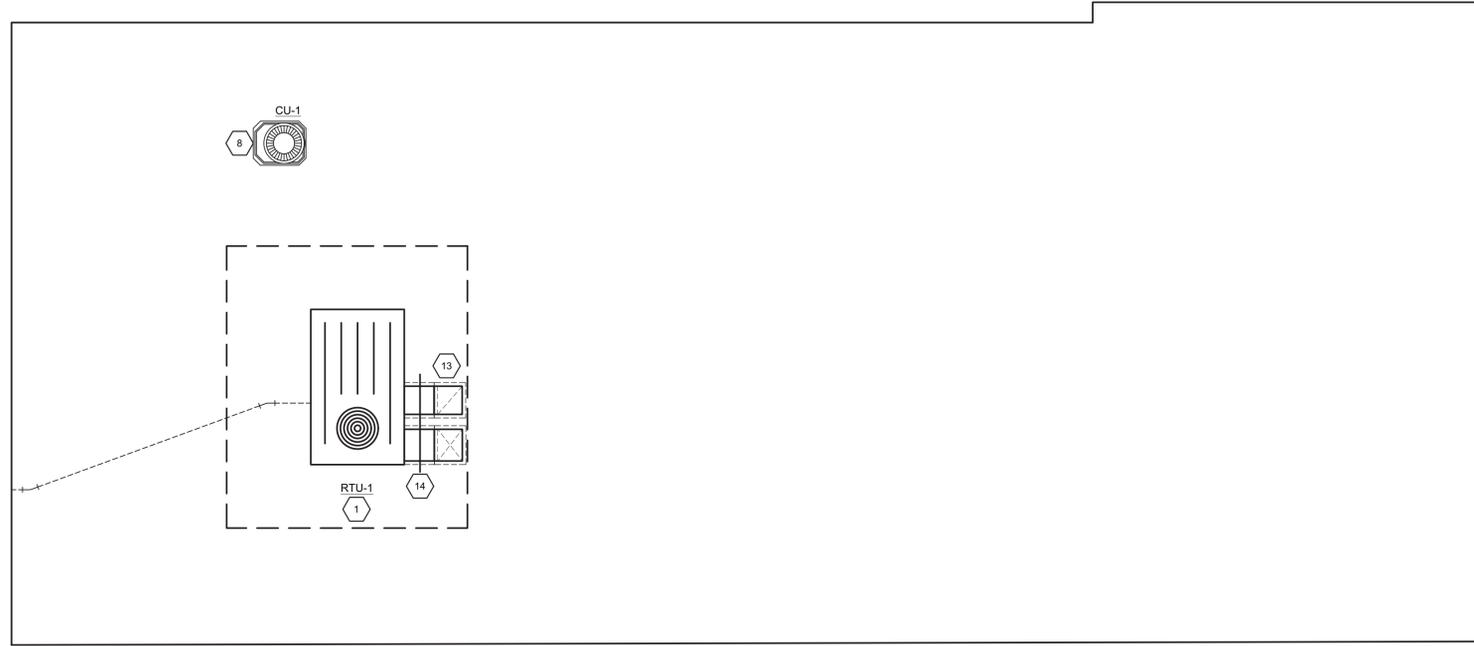
Registrant's Name: Jeremy T. Smith
Serial No. 041482

DATE: 02/25/26

PROJECT NO: 250486

LOCATION: CARRIAGE GATE, TALLAHASSEE FL

PLOT SCALE: 1"



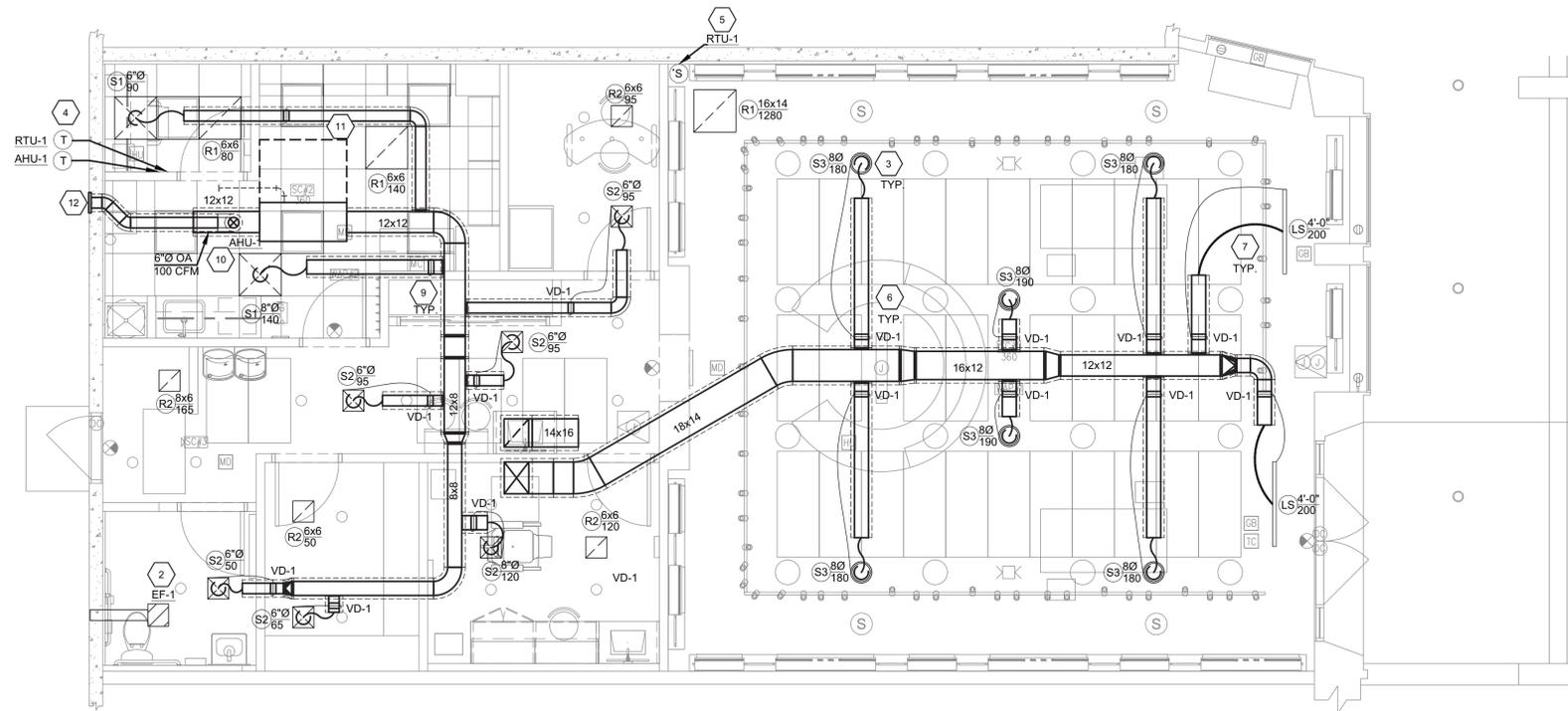
GENERAL NOTES

- A. THE GENERAL CONTRACTOR IS RESPONSIBLE AT THE BEGINNING OF THE PROJECT TO MEASURE THE SPACE WHILE REVIEWING THE ARCHITECT'S DRAWINGS TO VERIFY THAT THE INFORMATION CONTAINED IN THE MECHANICAL DOCUMENTS, ON WHICH HE/SHE QUOTED TO THE CLIENT, ARE COMPATIBLE WITH THE WORK TO BE PERFORMED AND THAT ALL SPACES ARE SUFFICIENT IN SIZE FOR THE WORK TO BE COMPLETED INCLUDING WIDTHS, LENGTHS, HEIGHTS, ETC.
- B. ALL MECHANICAL EQUIPMENT / DUCTWORK TO BE MOUNTED / INSTALLED TIGHT TO STRUCTURE.
- C. DUCTWORK MOUNTING SHALL CONFORM TO SMACNA STANDARDS FOR HANGERS AND SUPPORTS.
- D. ALL SUPPLY/RETURN DUCTWORK SHALL BE INTERNALLY LINED IF IT'S NOT EXTERNALLY INSULATED.
- E. ALL ROOF REPAIRS MUST BE PERFORMED BY LANDLORDS CONTRACTOR AT TENANTS EXPENSE.
- F. ENTIRE ROOFTOP EQUIPMENT AND CURB ASSEMBLY SHALL BE DESIGNED TO WITHSTAND ALL IBC AND ASCE-7, AS WELL AS ASSOCIATED DUCTWORK ABOVE THE ROOF. ROOFTOP EQUIPMENT MANUFACTURER AND CURB/CURB INTERFACE AND THE REQUIRED RESTRAINTS NECESSARY TO COMPLY WITH IBC AND ASCE-7, AS WELL AS ASSOCIATED DUCTWORK ABOVE THE ROOF. ROOFTOP EQUIPMENT MANUFACTURER AND CURB MANUFACTURER TO COORDINATE AND SUBMIT COMPLIANCE WITH THESE REQUIREMENTS.

KEY NOTES

- 1. INSTALL NEW RTU PER MANUFACTURER'S IOM AND MAINTAIN CLEARANCES. TRANSITION DUCT TO FULL SIZE CONNECTION AT UNIT AS REQUIRED. REFER TO DETAIL 3/M-103. SHOWN LOCATION IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. ROUTE INSULATED COPPER CONDENSATE DRAIN THRU THE UNIT BASE. CONENCT TO EXISTING CONDENSATE DRAIN. UNIT OUTSIDE AIR INTAKE SHALL BE MINIMUM 10'-0" AWAY FROM ANY EXHAUST AND/OR PLUMBING VENT.
- 2. PROVIDE NEW TOILET EXHAUST FAN PER SCHEDULE ON M-101. INTERLOCK FAN WITH LIGHT SWITCH. CONNECT NEW 6"Ø EXHAUST DUCT TO EXISTING DUCT AND EXISTING LOUVER ON WALL. IF EXISTING DUCT IS LESS THAN 6"Ø, CONTRACTOR SHALL MAKE ALL REQUIRED MODIFICATIONS.
- 3. 1-SLOT ROUND DIFFUSER. COORDINATE DIFFUSER LOCATION WITH TRACK LIGHTS, SPEAKERS AND EXISTING STRUCTURE. TRACK LIGHTS AND SPEAKER LOCATIONS SHALL NOT HAVE TO BE RELOCATED WITHOUT PRIOR APPROVAL FROM ARCHITECT AND/OR WARBY PARKER PM. MECHANICAL CONTRACTOR SHALL COORDINATE DIFFUSER LAYOUTS WITH ALL SUB-CONTRACTORS AND TRADES, PRIOR TO ANY FABRICATION OF DUCTWORK.
- 4. REFER TO SHEET M-101 FOR THERMOSTAT SPECIFICATION.
- 5. PROVIDE NEW COMPATIBLE BUTTON PROBE TEMPERATURE SENSOR. MOUNT ON WALL AT LOCATION SHOWN AT 60" AFF. WIRE BACK TO THERMOSTAT LOCATED AT MANAGER'S OFFICE. RUN THE WIRE IN CONDUIT. PROVIDE WITH INSULATED BACK PLATE.
- 6. PROVIDE BOWDEN CABLE CONTROLS AS SHOWN (VD-1). COORDINATE EXACT VOLUME DAMPER LOCATION IN FIELD. SEE M-101 FOR PRODUCT SPECIFICATIONS.
- 7. FLEXIBLE DUCT ALLOWED FOR FINAL CONNECTION TO DIFFUSER ONLY (TYP.). FLEXIBLE DUCT NOT TO EXCEED 5'-0" IN TOTAL LENGTH.
- 8. INSTALL CU-1 ON MECHANICAL EQUIPMENT STAND (MIAMI-DADE APPROVED), EQUIVALENT TO MIRO CONDENSER STAND AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ROUTE REFRIGERANT PIPING FROM CU TO AHU PER MANUFACTURER'S RECOMMENDATIONS.
- 9. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT IN EASILY ACCESSIBLE LOCATION WHEN POSSIBLE. TYPICAL FOR AREA WITH REMOVABLE TILE CEILING.
- 10. NEW AHU AS SPECIFIED ON SCHEDULE. SUSPEND UNIT FROM STRUCTURE ABOVE WITH ALL-THREAD AND VIBRATION ISOLATORS. ROUTE 3/4" INSULATED COPPER CONDENSATE DRAIN LINE TRAPPED PER DETAIL TO THE NEAREST STORM DRAIN OR TO APPROVED DISPOSAL POINT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF A CONDENSATE PUMP IS REQUIRED. PROVIDE SECONDARY CONDENSATE DRAIN PAN AND FLOAT SWITCH FOR EQUIPMENT WITH COOLING COILS SUSPENDED ABOVE CEILING. WITH FLOAT SWITCH WIRED TO SHUT OFF UNIT. INSTALL RETURN AIR PLENUM FULL SIZE OF UNIT OPENING AND CONNECT OUTSIDE AIR DUCT AS SHOWN ON PLAN. SHOWN LOCATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATION IN FIELD.
- 11. DASHED LINE AROUND HVAC EQUIPMENT REPRESENTS MANUFACTURER'S RECOMMENDED CLEARANCES FOR EQUIPMENT MAINTENANCE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SERVICE CODE REQUIRED CLEARANCES THE FULL HEIGHT OF THE UNIT IN THIS AREA AND TO PROVIDE ACCESS TO THESE AREAS.
- 12. ROUTE 06" OUTSIDE AIR DUCT THROUGH WALL AND CONNECT TO EXISTING LOUVER. PROVIDE WITH 120/1" MOTORIZED DAMPER INTERLOCK WITH THE AHU-1 AND VOLUME DAMPER. BALANCE OA TO AIR SPECIFIED ON SCHEDULE.
- 13. OUTDOOR AIR SHALL BE THERMADUCT WITH MINIMUM R-12.
- 14. MIAMI-DADE APPROVED DUCT SUPPORT.

2 MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"



1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

WARBY PARKER, INC.

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ENGINEER



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Austin, TX 78730-5004 USA
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EEA Project No. 20250574
State of Registration Florida
Firm Registration No. 20645

PROJECT NUMBER: 250486
DATE: 02.25.26

DRAWN BY: SL
CHECK BY: JTS

THESE DRAWINGS WERE COMPLETED UNDER THE DIRECT SUPERVISION OF: JTS

REVISION LOG:

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| ISSUED FOR CLIENT | 02.25.26 |
| ISSUED FOR LL PERMIT + BID | 03.06.23 |

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DRAWING NO.

M-102

MECHANICAL PLAN

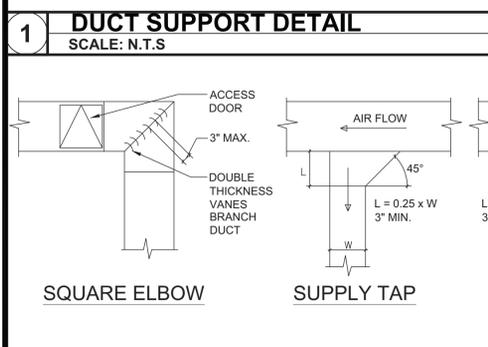
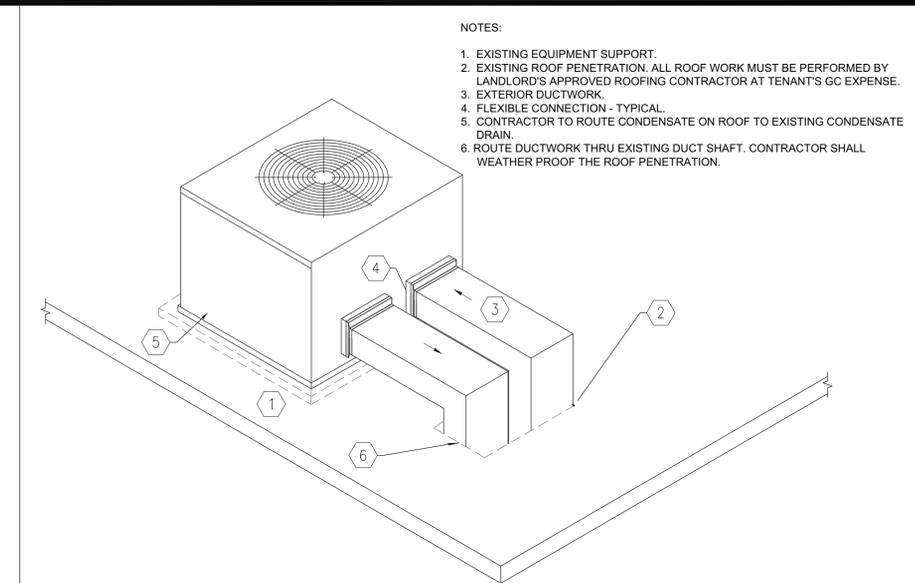
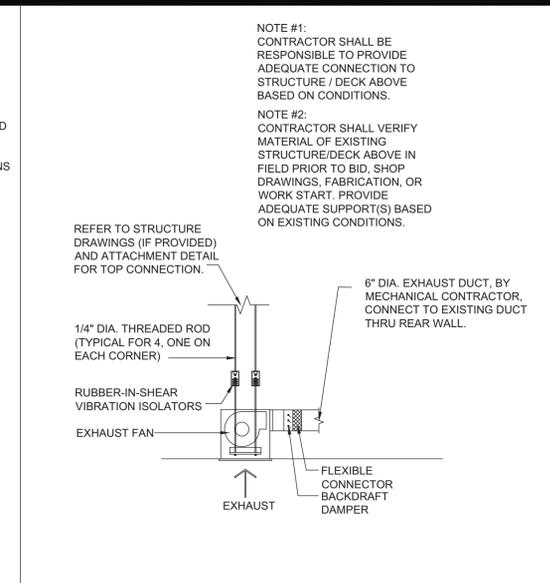
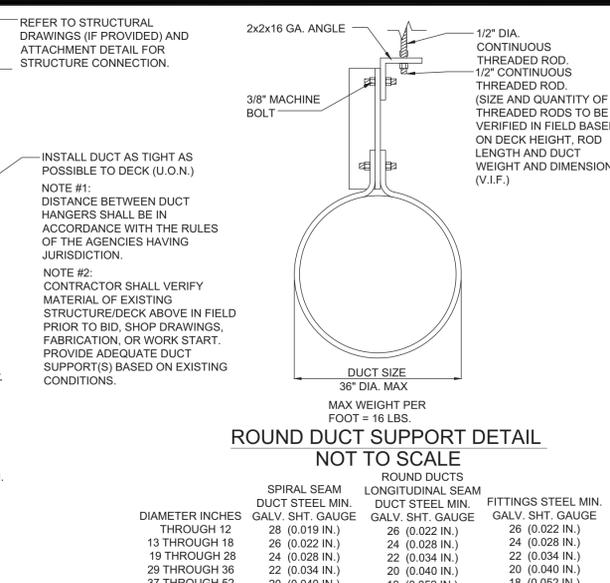
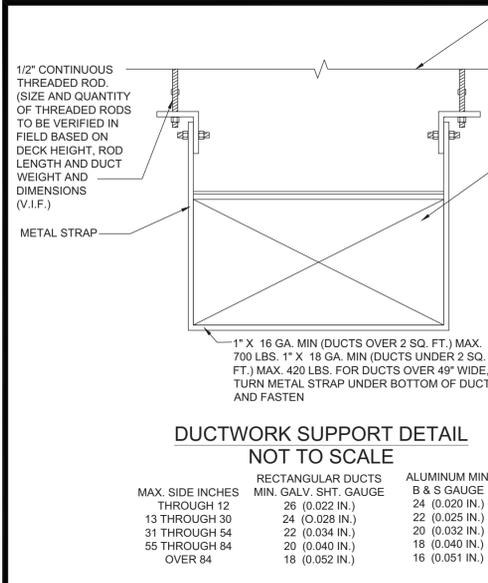
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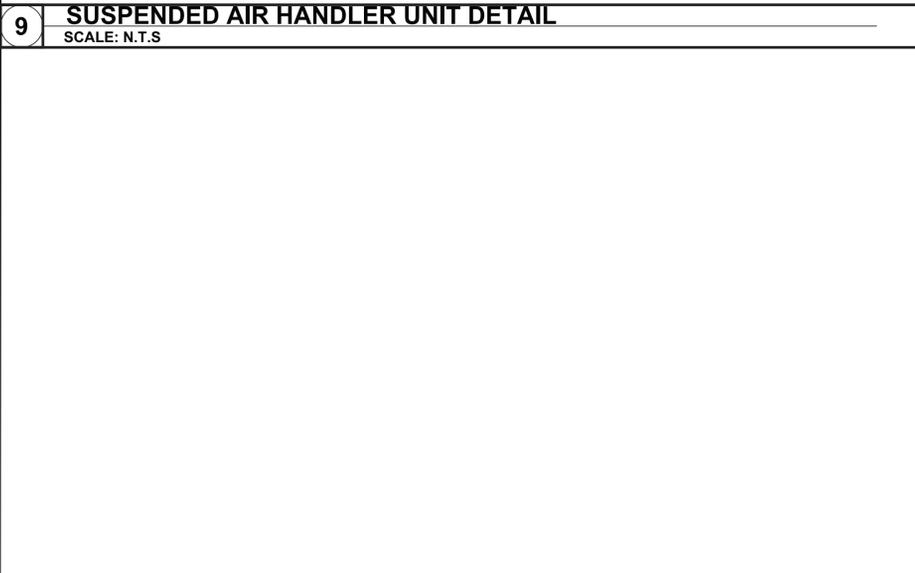
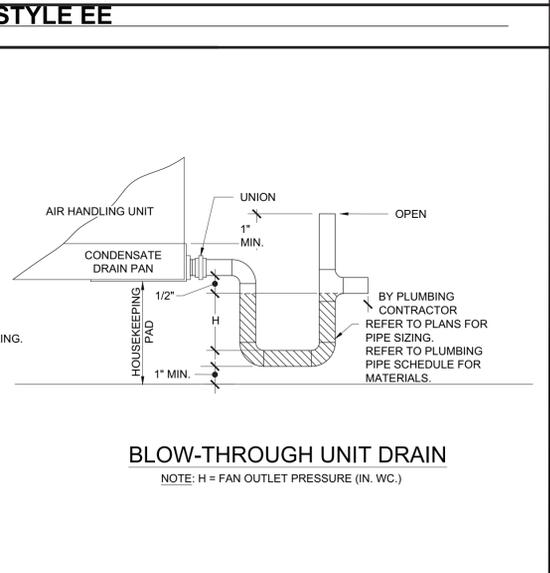
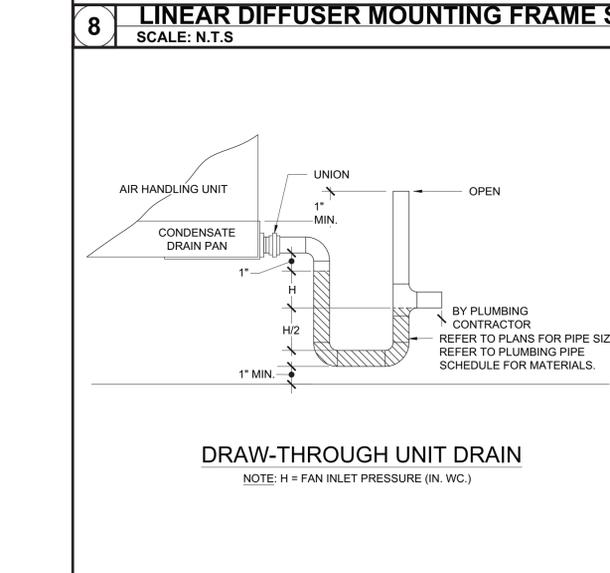
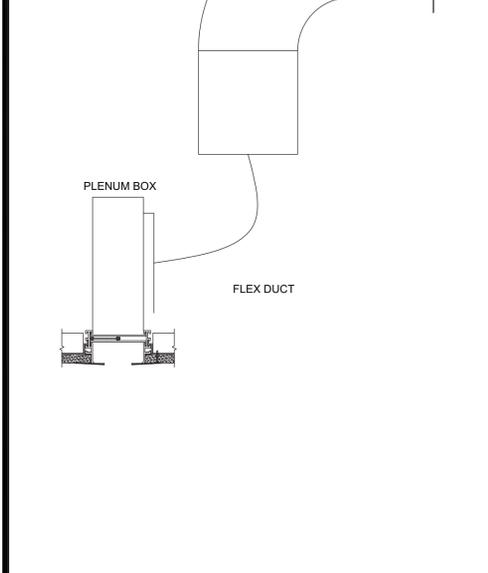
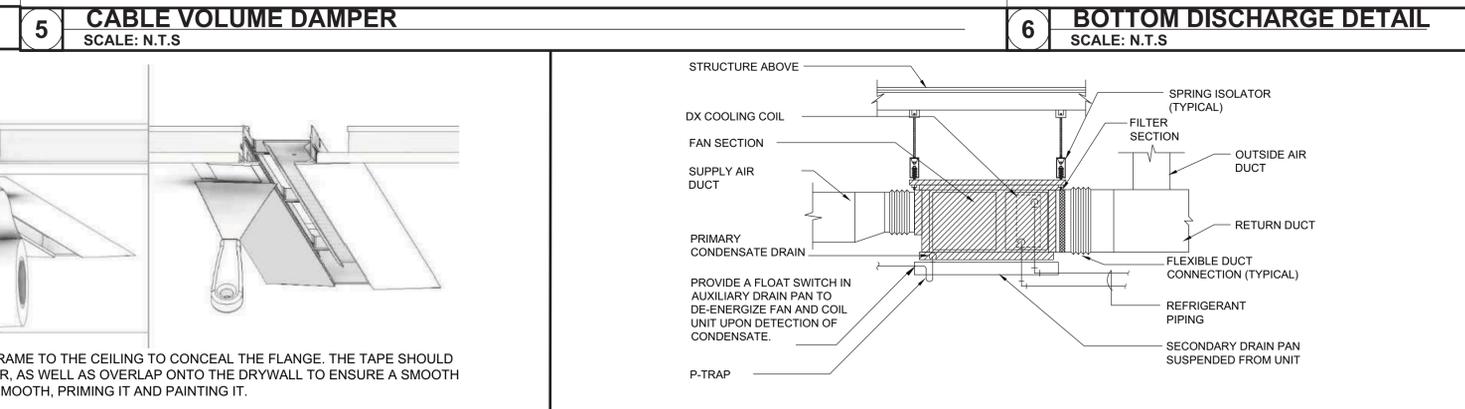
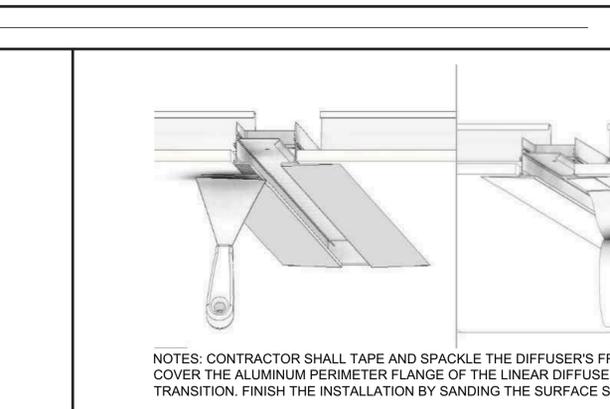
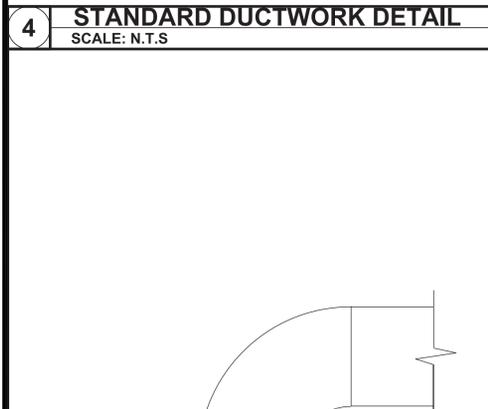
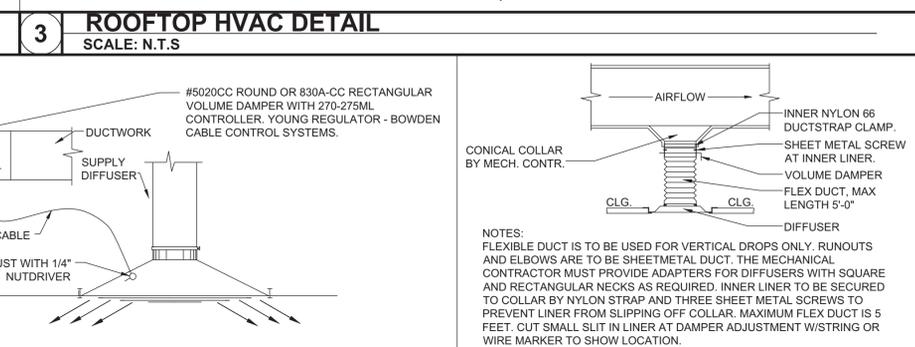
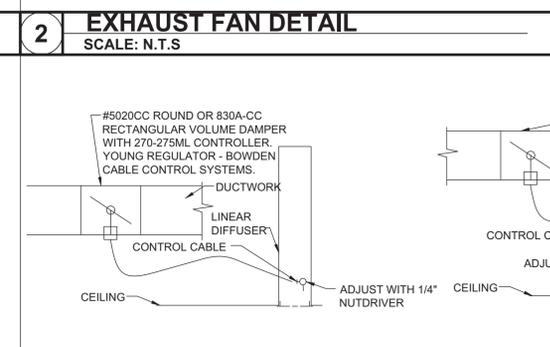
Registrant's Name: Jeremy T. Smith
Serial No. 041482



DUCTWORK SUPPORT DETAIL NOT TO SCALE

| MAX. SIDE INCHES | RECTANGULAR DUCTS MIN. GALV. SHT. GAUGE | ALUMINUM MIN. B & S GAUGE |
|------------------|--|------------------------------|
| THROUGH 12 | 26 (0.022 IN.) | 24 (0.020 IN.) |
| 13 THROUGH 30 | 24 (0.028 IN.) | 22 (0.025 IN.) |
| 31 THROUGH 54 | 22 (0.034 IN.) | 20 (0.032 IN.) |
| 55 THROUGH 84 | 20 (0.040 IN.) | 18 (0.040 IN.) |
| OVER 84 | 18 (0.052 IN.) | 16 (0.051 IN.) |

| DIAMETER INCHES | SPIRAL SEAM DUCT STEEL MIN. | | ROUND DUCTS LONGITUDINAL SEAM DUCT STEEL MIN. | | FITTINGS STEEL MIN. | |
|-----------------|-----------------------------|------------------|---|------------------|---------------------|------------------|
| | GALV. SHT. GAUGE | GALV. SHT. GAUGE | GALV. SHT. GAUGE | GALV. SHT. GAUGE | GALV. SHT. GAUGE | GALV. SHT. GAUGE |
| THROUGH 12 | 28 (0.019 IN.) | 26 (0.022 IN.) | 24 (0.022 IN.) | 26 (0.022 IN.) | 26 (0.022 IN.) | 26 (0.022 IN.) |
| 13 THROUGH 18 | 26 (0.022 IN.) | 24 (0.028 IN.) | 24 (0.028 IN.) | 24 (0.028 IN.) | 24 (0.028 IN.) | 24 (0.028 IN.) |
| 19 THROUGH 28 | 24 (0.028 IN.) | 22 (0.034 IN.) | 22 (0.034 IN.) | 22 (0.034 IN.) | 22 (0.034 IN.) | 22 (0.034 IN.) |
| 29 THROUGH 36 | 22 (0.034 IN.) | 20 (0.040 IN.) | 20 (0.040 IN.) | 20 (0.040 IN.) | 20 (0.040 IN.) | 20 (0.040 IN.) |
| 37 THROUGH 52 | 20 (0.040 IN.) | 18 (0.052 IN.) | 18 (0.052 IN.) | 18 (0.052 IN.) | 18 (0.052 IN.) | 18 (0.052 IN.) |



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ENGINEER

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www.eeaec.com

EEA Project No. 20256574
State of Registration Florida
Firm Registration No. 20645

| | |
|---------------------------------|-------------------------|
| PROJECT NUMBER 250486 | DATE 02.25.26 |
| DRAWN BY: SL | CHECK BY: JTS |

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| REVISION LOG: | |
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| ISSUED FOR LL PERMIT + BID | 03.06.23 |

CARRIAGE GATE SHOPPING CENTER
3425 THOMASVILLE RD
SPACE 7
TALLAHASSEE, FL 32309

DRAWING NO.
M-103
MECHANICAL DETAILS

JEREMY T. SMITH
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Registrant's Name:
Jeremy T. Smith
Serial No.
041482

DATE: 02/25/26 PROJECT NO: 250486 LOCATION: CARRIAGE GATE, TALLAHASSEE FL PLOT SCALE: 1/1



Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: Warby Parker - Carriage Gate
 Location: Tallahassee, Florida
 Climate Zone: 2a
 Project Type: Alteration

Construction Site: 3425 Thomasville Rd, Space 7
 Tallahassee, Florida 32309
 Owner/Agent: WARBY PARKER
 NEW YORK, New York 10013
 (646) 517-5223
 Designer/Contractor: EEA
 Austin, Texas 78730-3204
 512.744.4400
 www.eeace.com

Mechanical Systems List

Quantity Component Description

HVAC Systems

| | | |
|---|-------|---|
| 1 | RTU-1 | Cooling: 1 each - Single Package DX Unit (RTU-1), Capacity = 44 kBtu/h, Air-Cooled Condenser Proposed Efficiency = 0.00, Required Efficiency = 0.00 Proposed Part Load Efficiency = 16.00 SEER2, Required Part Load Efficiency = 13.40 SEER2 Fan System: RTU-1.2 -- Compliance (Brake HP and fan efficiency method) - Passes Fans: FAN-1 Supply, Constant Volume, 1500 CFM, 1.0 motor nameplate hp, 0.8 design brake hp (1.0 max. BHP), 1.00 fan energy index, fan exception: 3rd party airenergy performance certified SYSTEM VERIFICATION REQUIRED. |
|---|-------|---|

| | | |
|---|-------------|--|
| 1 | AHU-1/ICU-1 | Split System Heat Pump Heating Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 9.00 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 21 kBtu/h, Proposed Efficiency = 17.20 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: AHU-1/ICU-1 -- Compliance (Brake HP and fan efficiency method) - Passes Fans: FAN-2 Supply, Constant Volume, 750 CFM, 1.0 motor nameplate hp, 0.5 design brake hp (1.0 max. BHP), 1.10 fan energy index SYSTEM VERIFICATION REQUIRED. |
|---|-------------|--|

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Selene Licon - Mechanical Designer

03-05-2026

Name - Title Signature Date

VENTILATION CALCULATION RTU-1

1. Summary
 Ventilation Sizing Method: Sum of Space OA Airflows
 Design Ventilation Airflow Rate: 221 CFM

2. Space Ventilation Analysis

| Zone Name / Space Name | Mult. | Floor Area (ft ²) | Maximum Occupants | Maximum Supply Air (CFM) | Required Outdoor Air (CFM/person) | Required Outdoor Air (CFM/ft ²) | Required Outdoor Air (CFM) | Required Outdoor Air (% of supply) | Uncorrected Outdoor Air (CFM) |
|---|-------|-------------------------------|-------------------|--------------------------|-----------------------------------|---|----------------------------|------------------------------------|-------------------------------|
| Zone 1 | | | | | | | | | |
| Sales | 1 | 907.0 | 15.0 | 1479.7 | 7.50 | 0.12 | 0.0 | 0.0 | 221.3 |
| Totals (incl. Space Multipliers) | | | | 1479.7 | | | | | 221.3 |

LOAD CALCULATION RTU-1

Air System Information
 Air System Name: SALES
 Equipment Class: PKG ROOF
 Air System Type: SZCAV
 Number of zones: 1
 Floor Area: 907.0 ft²
 Location: Tallahassee, Florida

Sizing Calculation Information
 Calculation Months: Jan to Dec
 Calculation Date: Calculated
 Zone CFM Sizing: Sum of space airflow rates
 Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
 Total coil load: 3.6 Tons
 Total coil load: 42.7 MBH
 Sensible coil load: 33.1 MBH
 Coil CFM at Aug 1500: 1480 CFM
 Max block CFM: 1480 CFM
 Sum of peak zone CFM: 1480 CFM
 Sensible heat ratio: 0.777
 CFM/Ton: 416.1
 RT/Ton: 255.1
 BTU/(hr ft²): 47.0
 Water flow @ 10.0 °F rise: N/A

Central Heating Coil Sizing Data
 Max coil load: 15.6 MBH
 Coil CFM at Des Htg: 1480 CFM
 Max coil CFM: 1480 CFM
 Water flow @ 20.0 °F drop: N/A

Supply Fan Sizing Data
 Actual max CFM: 1480 CFM
 Standard CFM: 1470 CFM
 Actual max CFM/ft²: 1.63 CFM/ft²

Outdoor Ventilation Air Data
 Design airflow CFM: 221 CFM
 CFM/ft²: 0.24 CFM/ft²

VENTILATION CALCULATION AHU-1

1. Summary
 Ventilation Sizing Method: Sum of Space OA Airflows
 Design Ventilation Airflow Rate: 192 CFM

2. Space Ventilation Analysis

| Zone Name / Space Name | Mult. | Floor Area (ft ²) | Maximum Occupants | Maximum Supply Air (CFM) | Required Outdoor Air (CFM/person) | Required Outdoor Air (CFM/ft ²) | Required Outdoor Air (CFM) | Required Outdoor Air (% of supply) | Uncorrected Outdoor Air (CFM) |
|---|-------|-------------------------------|-------------------|--------------------------|-----------------------------------|---|----------------------------|------------------------------------|-------------------------------|
| Zone 1 | | | | | | | | | |
| BOH | 1 | 185.0 | 2.0 | 129.7 | 5.00 | 0.12 | 0.0 | 0.0 | 32.2 |
| Closet | 1 | 72.0 | 0.0 | 24.1 | 5.00 | 0.12 | 0.0 | 0.0 | 8.6 |
| Contact IR / Passage | 1 | 191.0 | 2.0 | 177.3 | 5.00 | 0.06 | 0.0 | 0.0 | 21.5 |
| Exam Room | 1 | 104.0 | 2.0 | 103.1 | 5.00 | 0.06 | 0.0 | 0.0 | 16.2 |
| Manager Office | 1 | 35.0 | 1.0 | 86.4 | 5.00 | 0.12 | 0.0 | 0.0 | 9.2 |
| Pre Exam Room | 1 | 70.0 | 2.0 | 91.7 | 5.00 | 0.06 | 0.0 | 0.0 | 14.2 |
| Toilet Room | 1 | 55.0 | 0.0 | 53.2 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 |
| Totals (incl. Space Multipliers) | | | | 665.5 | | | | | 101.9 |

LOAD CALCULATION AHU-1

Air System Information
 Air System Name: BOH
 Equipment Class: PKG ROOF
 Air System Type: SZCAV
 Number of zones: 1
 Floor Area: 712.0 ft²
 Location: Tallahassee, Florida

Sizing Calculation Information
 Calculation Months: Jan to Dec
 Calculation Date: Calculated
 Zone CFM Sizing: Sum of space airflow rates
 Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
 Total coil load: 1.7 Tons
 Total coil load: 20.8 MBH
 Sensible coil load: 16.1 MBH
 Coil CFM at Jul 1500: 666 CFM
 Max block CFM: 666 CFM
 Sum of peak zone CFM: 666 CFM
 Sensible heat ratio: 0.772
 CFM/Ton: 383.6
 RT/Ton: 410.3
 BTU/(hr ft²): 28.2
 Water flow @ 10.0 °F rise: N/A

Central Heating Coil Sizing Data
 Max coil load: 8.2 MBH
 Coil CFM at Des Htg: 666 CFM
 Max coil CFM: 666 CFM
 Water flow @ 20.0 °F drop: N/A

Supply Fan Sizing Data
 Actual max CFM: 666 CFM
 Standard CFM: 661 CFM
 Actual max CFM/ft²: 0.93 CFM/ft²

Outdoor Ventilation Air Data
 Design airflow CFM: 192 CFM
 CFM/ft²: 0.14 CFM/ft²

LOAD SUMMARY SALES AREA

| ZONE LOADS | DESIGN COOLING | | | DESIGN HEATING | | |
|-------------------------------|---------------------|-------------------|-----------------|---------------------|-------------------|-----------------|
| | Details | Sensible (BTU/hr) | Latent (BTU/hr) | Details | Sensible (BTU/hr) | Latent (BTU/hr) |
| Window & Skylight Solar Loads | 88 ft ² | 2153 | - | 88 ft ² | - | - |
| Wall Transmission | 181 ft ² | 692 | - | 181 ft ² | 1122 | - |
| Roof Transmission | 907 ft ² | 1049 | - | 907 ft ² | 1472 | - |
| Window Transmission | 88 ft ² | 1016 | - | 88 ft ² | 1808 | - |
| Skylight Transmission | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Door Loads | 68 ft ² | 2165 | - | 68 ft ² | 2166 | - |
| Floor Transmission | 907 ft ² | 0 | - | 907 ft ² | 532 | - |
| Partitions | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Ceiling | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Overhead Lighting | 1007 W | 2824 | - | 0 | 0 | - |
| Task Lighting | 2101 W | 7169 | - | 0 | 0 | - |
| Electric Equipment | 0 W | 1 | - | 0 | 0 | - |
| People | 15 | 3750 | 3000 | 0 | 0 | 0 |
| Infiltration | - | 0 | 0 | - | 0 | 0 |
| Miscellaneous | - | 0 | 0 | - | 0 | 0 |
| Safety Factor | 10% / 0% | 2082 | 0 | 0% | 0 | 0 |
| >> Total Zone Loads | - | 22901 | 3000 | - | 7101 | 0 |
| Zone Conditioning | - | 26435 | 3000 | - | 6757 | 0 |
| Plenum Wall Load | 0% | 0 | - | 0% | 0 | - |
| Plenum Roof Load | 0% | 0 | - | 0% | 0 | - |
| Plenum Lighting Load | 0% | 0 | - | 0% | 0 | - |
| Return Fan Load | 1480 CFM | 0 | - | 1480 CFM | 0 | - |
| Ventilation Load | 221 CFM | 5633 | 6519 | 221 CFM | 9683 | 0 |
| Supply Fan Load | 1480 CFM | 676 | - | 1480 CFM | -676 | - |
| Space Fan Coil Fans | - | 0 | - | - | 0 | - |
| Duct Heat Gain / Loss | 0% | 0 | - | 0% | 0 | - |
| >> Total System Loads | - | 33146 | 9519 | - | 15563 | 0 |
| Central Cooling Coil | - | 33146 | 9521 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 15563 | 0 |
| >> Total Conditioning | - | 33146 | 9521 | - | 15563 | 0 |

Key: Positive values are clg loads
 Negative values are htg loads

LOAD SUMMARY BOH AREA

| ZONE LOADS | DESIGN COOLING | | | DESIGN HEATING | | |
|-------------------------------|---------------------|-------------------|-----------------|---------------------|-------------------|-----------------|
| | Details | Sensible (BTU/hr) | Latent (BTU/hr) | Details | Sensible (BTU/hr) | Latent (BTU/hr) |
| Window & Skylight Solar Loads | 0 ft ² | 0 | - | 0 ft ² | - | - |
| Wall Transmission | 384 ft ² | 1695 | - | 384 ft ² | 2443 | - |
| Roof Transmission | 712 ft ² | 866 | - | 712 ft ² | 1156 | - |
| Window Transmission | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Skylight Transmission | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Door Loads | 21 ft ² | 296 | - | 21 ft ² | 526 | - |
| Floor Transmission | 712 ft ² | 0 | - | 712 ft ² | 0 | - |
| Partitions | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Ceiling | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Overhead Lighting | 0 W | 0 | - | 0 | 0 | - |
| Task Lighting | 712 W | 2429 | - | 0 | 0 | - |
| Electric Equipment | 2 W | 6 | - | 0 | 0 | - |
| People | 9 | 2250 | 1800 | 0 | 0 | 0 |
| Infiltration | - | 0 | 0 | - | 0 | 0 |
| Miscellaneous | - | 2000 | 0 | - | 0 | 0 |
| Safety Factor | 10% / 0% | 954 | 0 | 0% | 0 | 0 |
| >> Total Zone Loads | - | 10496 | 1800 | - | 4125 | 0 |
| Zone Conditioning | - | 13186 | 1800 | - | 4103 | 0 |
| Plenum Wall Load | 0% | 0 | - | 0% | 0 | - |
| Plenum Roof Load | 0% | 0 | - | 0% | 0 | - |
| Plenum Lighting Load | 0% | 0 | - | 0% | 0 | - |
| Return Fan Load | 666 CFM | 0 | - | 666 CFM | 0 | - |
| Ventilation Load | 102 CFM | 2488 | 2953 | 102 CFM | 4480 | 0 |
| Supply Fan Load | 666 CFM | 395 | - | 666 CFM | -395 | - |
| Space Fan Coil Fans | - | 0 | - | - | 0 | - |
| Duct Heat Gain / Loss | 0% | 0 | - | 0% | 0 | - |
| >> Total System Loads | - | 16069 | 4753 | - | 8188 | 0 |
| Central Cooling Coil | - | 16069 | 4753 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 8188 | 0 |
| >> Total Conditioning | - | 16069 | 4753 | - | 8188 | 0 |

Key: Positive values are clg loads
 Negative values are htg loads

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 Firm Registration No. 20645

PROJECT NUMBER: 250486
 DATE: 02.25.26

DRAWN BY: SL
 CHECK BY: JTS

THESE DRAWINGS WERE COMPLETED UNDER THE DIRECT SUPERVISION OF: JTS

REVISION LOG:
 ISSUED FOR CLIENT: 02.25.26
 ISSUED FOR LL PERMIT + BID: 03.06.23

CARRIAGE GATE SHOPPING CENTER
 3425 THOMASVILLE RD
 SPACE 7
 TALLAHASSEE, FL 32309

DRAWING NO. M-501

MECHANICAL CALCULATIONS

JEREMY T. SMITH

EEA CONSULTING ENGINEERS

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 Registrant's Name: Jeremy T. Smith
 Serial No. 941482

DATE: 02/25/26

PROJECT NO: 250486

LOCATION: CARRIAGE GATE, TALLAHASSEE FL

PLOT SCALE: 1"