



**GROUND FLOOR PLAN**  
SCALE: 1/8"=1'-0"

- MECHANICAL NOTES:**
- ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  - DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
  - CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 25 FT. CENTERS.
  - RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE. PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT. REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
  - SHARP THROAT, RADIUS HEEL 90 DEGREE FITTINGS ARE UNACCEPTABLE. RADIUS ELBOWS (INNER AND OUTER) OR MITERED ELBOWS WITH TURNING VANES SHALL BE PROVIDED FOR ALL 90 DEGREE ELBOWS.
  - ALL EXHAUSTS AND VENT TERMINALS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
  - ALL OUTSIDE AIR DUCTWORK SHALL HAVE MINIMUM 2" EXTERNAL FIBERGLASS DUCTWRAP INSULATION.
  - EXHAUST AIR SHALL NOT BE INSULATED UNLESS EXTENDING THROUGH UNCONDITIONED SPACES. PROVIDE 1 1/2" DUCTWRAP THROUGH UNCONDITIONED SPACES.
  - CONTRACTOR SHALL DRAIN THE EXISTING SYSTEM AND FLUSH CLEAN, FURISH AND INSTALL NEW SHUT-OFF VALVE AT CONNECTIONS TO EXISTING SYSTEM. REFILL SYSTEM, PURGE AIR FROM SYSTEM. CONTRACTOR SHALL INSULATE ALL NEW AND EXISTING PIPING LOCATED WITHIN THE SCOPE OF WORK.
- MECHANICAL NOTES:**
- PROVIDE MINIMUM 3/4" UNDERCUT OF BATHROOM DOOR.
  - OUTSIDE AIR LOUVER. REFER TO SCHEDULE FOR SIZE AND AIRFLOW.
  - NOT USED.
  - 36"x12" OA DUCT UP TO OA INTAKE HOOD ON ROOF. COOK MODEL 24 PR, OR APPROVED EQUAL. PROVIDE BACKDRAFT DAMPERS.
  - MOTORIZED DAMPER (DA). BALANCE MINIMUM POSITION TO XXX CFM. DAMPER SHALL BE:
    - CLOSED DURING UNOCCUPIED HOURS.
    - FULLY OPEN DURING ECONOMIZER MODE (WHEN OUTSIDE AIR WET BULB TEMPERATURE IS 56F OR LOWER).
  - MOTORIZED DAMPER (RETURN AIR). IT SHALL BE NORMALLY OPEN AND CLOSE WHEN THE UNIT IS ON ECONOMIZER MODE.
  - MOTORIZED DAMPER (RELIEF). IT SHALL BE NORMALLY CLOSED, AND FULLY OPEN WHEN THE UNIT IS ON ECONOMIZER MODE.
  - 24"x24" DUCT UP TO RELIEF HOOD ON ROOF. COOK MODEL 24 PR, OR APPROVED EQUAL. PROVIDE BACKDRAFT DAMPERS.
  - RETURN LOW ON WALL, DUCTED TO AHU. SUPPLY HIGH ON WALL. REFER TO DETAIL.
  - 10"x10" OA DUCT DOWN THRU SLAB TO GROUND LEVEL VEILING.
  - DOUBLE WALL INSULATED SPIRAL DUCTWORK. DUCTWORK SHALL BE CLEANED OF ALL MACHINE OIL, SO THE DUCT CAN BE PAINTED IN COLOR SELECTED BY THE ARCHITECT.
  - PROVIDE 36" CLEARANCE FOR MAINTENANCE. NO PIPING IS PERMITTED IN THE HIGHLIGHTED AREA.
  - INSTALL HVAC SYSTEM TO PROVIDE 2,000 MICROWATTS PER CM2 F0 FREE DUCT AREA.
  - 6"R WALL CAP. COORDINATE FINISH WITH ARCHITECT.
  - NOT IN SCOPE UNLESS OTHERWISE NOTED.
  - 1-1/2" CONDENSATE TO INDIRECT WASTE RECEPTOR ABOVE THE CEILING.
  - NORMALLY OPEN CONTROL VALVE (2-WAY) SHALL BE TIED TO THE BAS AND BE SHUT DOWN WHENEVER THE DUAL PIPE SYSTEM IS ON COOLING MODE (CHILLERS ON). PROVIDE ACCESS TO VALVE.
- PRICING NOTES:**
- WORK PHASING - IT IS THE INTENTION FOR THE WORK TO OCCUR IN AN OCCUPIED BUILDING. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL ADDITIONAL VALVES, BYPASS PIPING, TEMPORARY PANELS, ETC. TO KEEP THE EXISTING SYSTEM IN OPERATION DURING THE DURATION OF THE PROJECT. THE MEANS AND METHODS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER. ALL SHUT DOWNS AND INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER A WEEK IN ADVANCE OF THE WORK.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

**NOTICE**  
THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

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