

NOTE:  
THE SYSTEM SHALL BE CONTROLLED BY A MANUAL CHANGEOVER OR CAPABLE OF REMAINING PROGRAMMED AND TIME SETTING DURING DUAL POWER SOURCES. A PERIOD OF AT LEAST 10 HOURS.

### MECHANICAL GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL A COMPLETE WORKABLE HVAC SYSTEM IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE ATTACHED PLANS AND SPECIFICATIONS. THE FOLLOWING LISTED REQUIREMENTS, MATERIALS AND EQUIPMENT ARE THE MINIMUM STANDARDS OF QUALITY, CAPACITY, AND WORKMANSHIP. THIS CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE SOUTHERN STANDARD BUILDING CODE, AND ALL APPLICABLE LOCAL AND STATE CODES; OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED TO PERFORM THIS WORK. ALL MATERIALS SHALL BE NEW AND UNDAMAGED. ALL EQUIPMENT SHALL BE U.L. LISTED AND/OR APPROVED BY THE AUTHORITY HAVING JURISDICTION OVER SUCH EQUIPMENT. AND SHALL BE WARRANTED BY THIS CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. ROOFTOP UNIT COMPRESSORS SHALL HAVE 5 YEAR MANUFACTURES WARENTEE.
2. THIS MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AND WITH ANY EXISTING JOBSITE CONDITIONS PRIOR TO THE INSTALLATION AND/OR FABRICATION OF ANY MATERIALS OR EQUIPMENT. LOCATE ALL ITEMS TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN, AND TO PROVIDE PROPER OPERATION AND SERVICE FOR ALL EQUIPMENT.
3. ALL DUCTWORK SIZES SHOWN ON THE DRAWING ARE NET FREE INSIDE CLEAR DIMENSIONS. THIS MECHANICAL CONTRACTOR SHALL PROVIDE ALL SUPPLY DIFFUSERS AND RETURN AIR GRILLES AS REQUIRED TO ACHIEVE THE AIR DISTRIBUTION SHOWN ON M-2. VERIFY THE FINAL LOCATION OF ALL CEILING DIFFUSERS AND GRILLES WITH THE ARCHITECT PRIOR TO INSTALLATION.
4. THIS CONTRACTOR SHALL VERIFY THE FINAL LOCATION OF ALL ROOM TEMPERATURE SENSORS WITH THE ARCHITECT PRIOR TO THEIR INSTALLATION.
5. DUCTWORK
  - A. SHALL BE RIGID DUCT BOARD WITH 1 1/2" THICK FIBERGLASS INSULATION WITH FOIL VAPOR BARRIER. ALL JOINTS AND SEAMS SEALED IN MANNER TO PROVIDE A COMPLETE VAPOR TIGHT ENCLOSURE. ALL DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ISSUE OF THE SMANCA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES INDICATED ON THE DRAWINGS ARE NET FREE INSIDE CLEAR DIMENSIONS. PROVIDE TURNING VANES IN ALL ELBOWS, AND MANUAL VOLUME DAMPERS IN ALL BRANCHES. PROVIDE SPLITTER DAMPERS IN ALL DIVISIONS. PROVIDE OTHER SIMILAR DEVICES AS REQUIRED TO PROPERLY BALANCE THE SYSTEM.
  - B. FLEXIBLE DUCTWORK SHALL BE INSULATED TYPE R-6 AND SHALL NOT EXCEED 8 FEET IN LENGTH; BENDS SHALL NOT RESTRICT THE INSIDE CROSS-SECTIONAL AREA OF THE DUCT; AND CONNECTION SHALL BE MADE AS DIRECT AS POSSIBLE TO THE MAIN SUPPLY.
6. THE MECHANICAL CONTRACTOR SHALL VERIFY UNIT LOCATION AND ROUGH-IN WITH LANDLORD'S ARCHITECT PRIOR TO INSTALLATION. PROVIDE 2-4X4X6 CONTINUOUS AROUND DECK PENETRATIONS.
7. GENERAL CONTRACTOR SHALL NOT MAKE ANY ROOF OR WALL PENETRATIONS WITHOUT LANDLORD'S APPROVAL. ALL SUCH PENETRATION SHALL BE MADE BY CONTRACTORS APPROVED BY LANDLORD.
8. A/C GRILLES SHALL BE TYPICAL 24" x 24" PERFORATED LAY-IN AT SUPPLY GRILLES - PROVIDE VOLUM DAMPER AND ADJUSTABLE BLADE DEFLECTORS.
9. GRILLES SHALL BE LOCATED AS SHOWN ON HVAC PLAN.

#### CALCULATIONS FOR OUTSIDE AIR:

(AS PER TABLE 4-1, U.M.C.)

#### OUTDOOR AIR REQUIREMENTS FOR VENTILATION:

KITCHEN AREA: 198 CFM  
 DINING AREA: 700 CFM  
 OFFICE AREA: 10 CFM  
 50 S.F. x 0.20 = 10 CFM

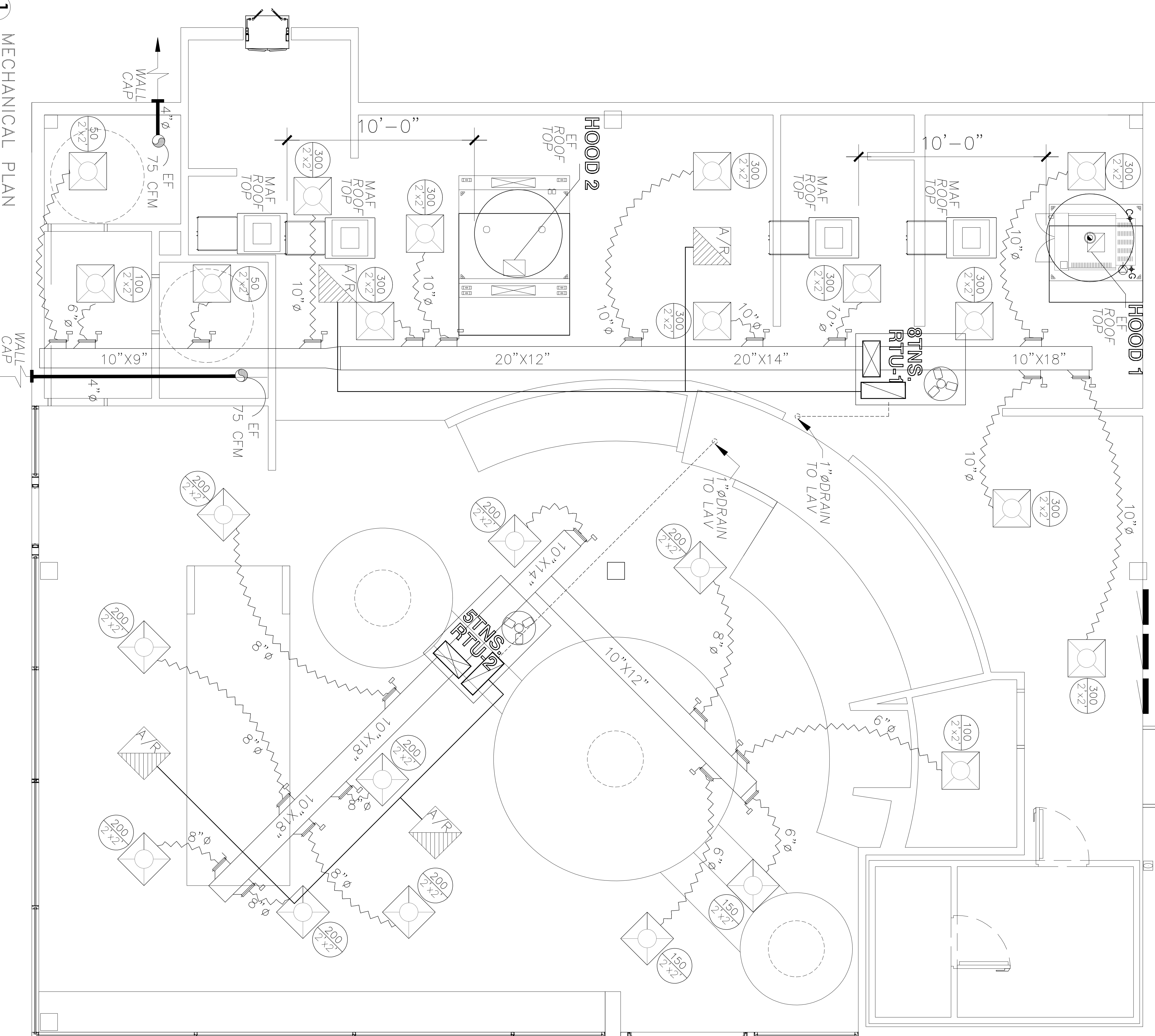
TOTAL = 998 CFM

OUTSIDE AIR FLOW RATE (CFM)=30 %

#### NOTE:

- INSTALL (2) 75 CFM EXHAUST FANS IN:
- RESTROOM (SWITCHES AT DOOR)

### MECHANICAL PLAN



#### MECHANICAL LEGEND

	EXHAUST DIFFUSER
	EXHAUST DIFFUSER
	RETURN AIR
	CFM VOLUME DIFFUSER SIZE
	FLEXIBLE DUCT & DIAMETER
	EXHAUST FAN
	A/C SPLIT UNIT
	HOOD EXHAUST FAN
	MAKE UP

Date	07-14-2010
Scale	AS SHOWN
Drawn by	
Job#:	
SHEET NO:	M-01

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Rev.	By	Date