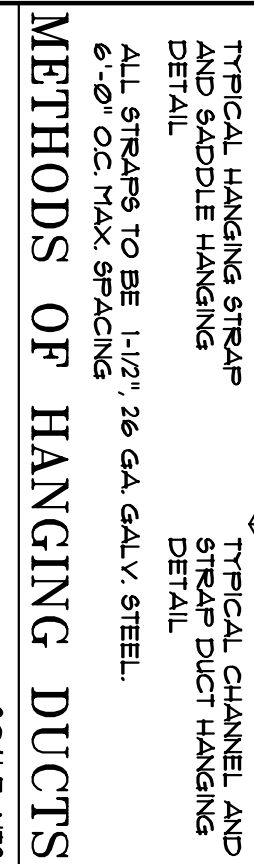
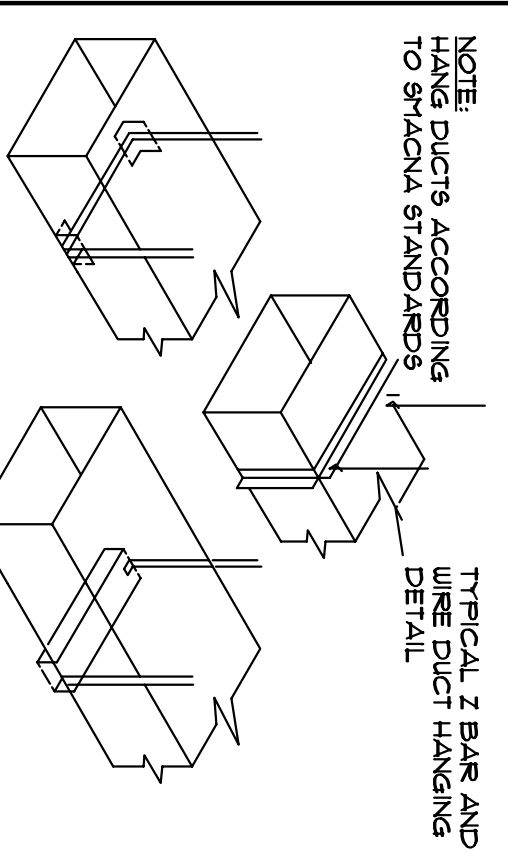
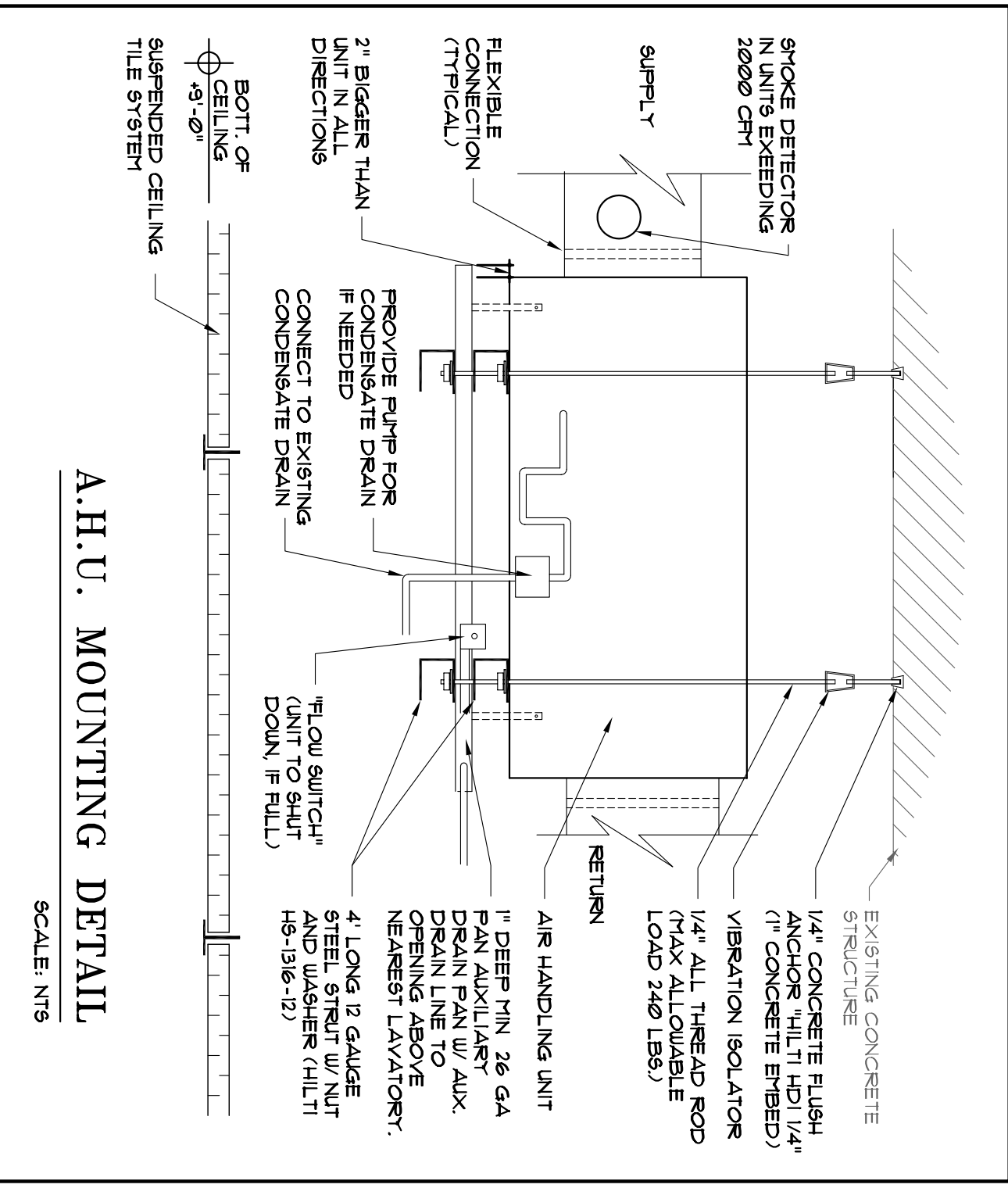


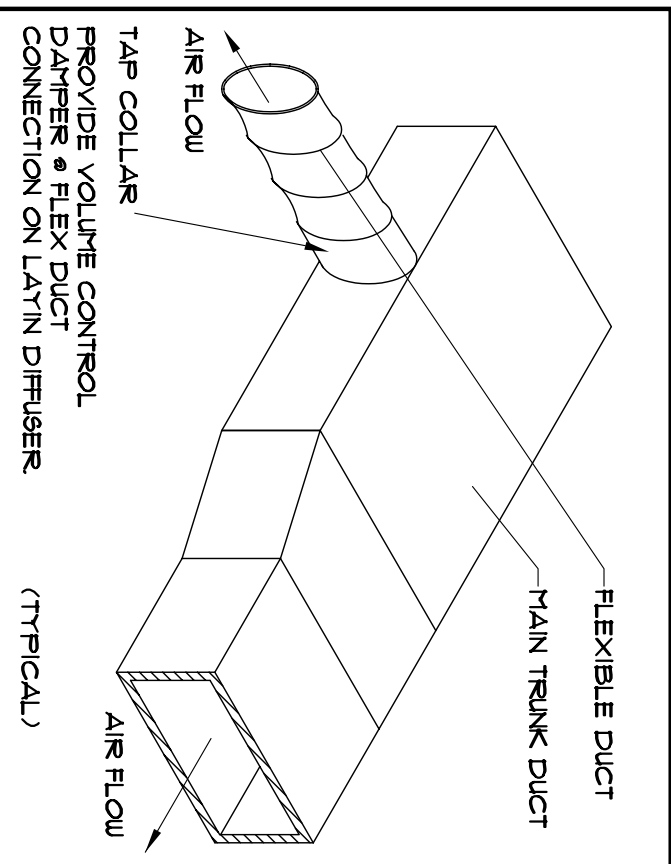
### HVAC NOTES

- HVAC SUBCONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATIVE A/C SYSTEM.
- HVAC SUBCONTRACTOR TO PROVIDE ALL REQUIRED HVAC PERMITS.
- HVAC SUBCONTRACTOR SHALL PROVIDE ALL EQUIPMENT OF THE CAPACITIES SHOWN ON PLAN.
- COMPLY WITH NFPA, FLORIDA BUILDING CODE AND ALL APPLICABLE CODES.
- CONDENSED WATER SHALL BE COLLECTED IN METAL, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE A/C MANUFACTURER'S REQUIREMENTS.
- ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION.
- HVAC SUBCONTRACTOR SHALL TEST AND BALANCE TO THE AIR QUANTITIES SHOWN ON THE PLAN.
- HVAC SUBCONTRACTOR SHALL PROVIDE ALL CONTRACTORS, RELAYS, AND THERMOSTATS, THE WIRING, THERMOSTATS SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
- ALL SUPPLY & RETURN DUCTWORK SHALL BE CONSTRUCTED OF 1/2" THICK STANDBY DUTY FIBERGLASS BOARD WITH REINFORCED FLATROOF ALUMINUM TOLL FACED COVERING R-6 MIN INSULATION. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS (SHOWN STANDARDS) EXCEPT AS NOTED ON PLAN.
- FLEXIBLE DUCT RUN OUTS SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND NESTLED WITH THICK FIBERGLASS COVERED WITH A W/ROCK BARRIER OF ALUMINUM SHALL BE MADE WITH FITTINGS PROVIDED WITH THEIR BUNGES, BUTTERFLY DAMPERS, QUADRANT OPERATORS AND INSULATION GUARDS.
- HVAC SUBCONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE THAT SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY OWNER. ANY BREAKDOWN OCCURRING IN THE FIRST YEAR SHALL BE REPAIRS AT NO EXPENSE TO THE OWNER. THE COMPRESSORS SHALL HAVE AT FIVE (5) YEAR WARRANTY.
- ALL WORK OF THIS TRADE SHALL BE COORDINATE WITH ALL OTHER TRADES TO AVOID INTERFERENCES THAT MAY DELAY PROGRESS OF WORK.
- FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHADE HEIGHT AND RESISTANCE OF 0.5% AND A CLEAN PRESSURE DROP OF 0.5. PROVIDE TWO SETS, ONE DURING CONSTRUCTION AND OTHER FOR USE AFTER OCCUPANCY.
- HVAC SUBCONTRACTOR SHALL INSTALL ALL NECESSARY OFFSETS, BENDS AND TRANSITIONS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLS & REGISTER IN THE FIELD WITH LIGHTING AND ARCHITECTURAL ELEMENTS.
- HANG ALL EQUIPMENT FOR WIND LOADS AND MOUNTING HEIGHTS AS REQUIRED BY LOCAL CODES.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR CONDENSATE RETURN INSTALLATION TO BE PROVIDED & INSTALLED BY PLUMBING CONTRACTOR.
- CONDENSATE DRAIN PIPING & CONDENSATE DRAIN LINES SHALL BE INSULATED W/ 1/4" FOAM PLASTIC PIPE INSULATION.
- MECH. SUBCONTRACTOR SHALL INSTALL CONDENSATE DRAIN LINES/PIPES AS SHOWN ON PLANS.

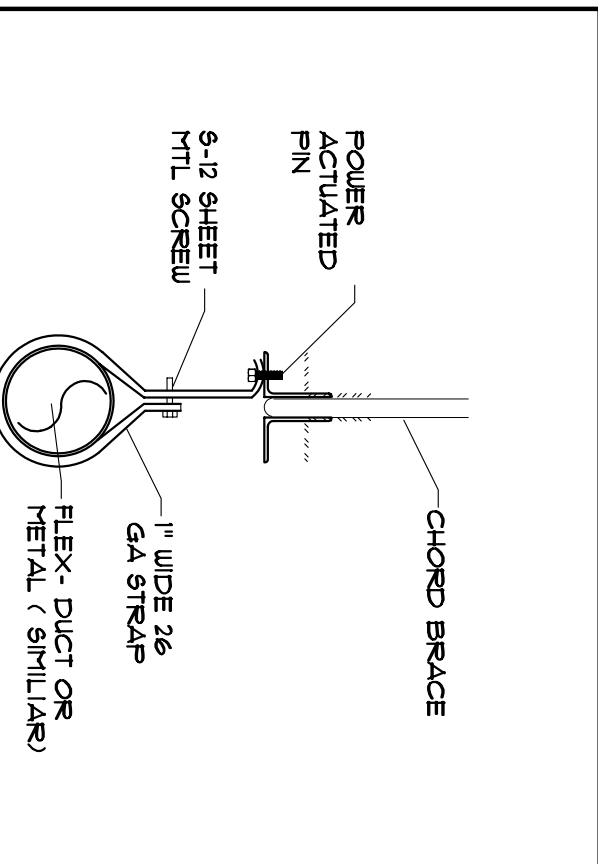


### METHODS OF HANGING DUCTS

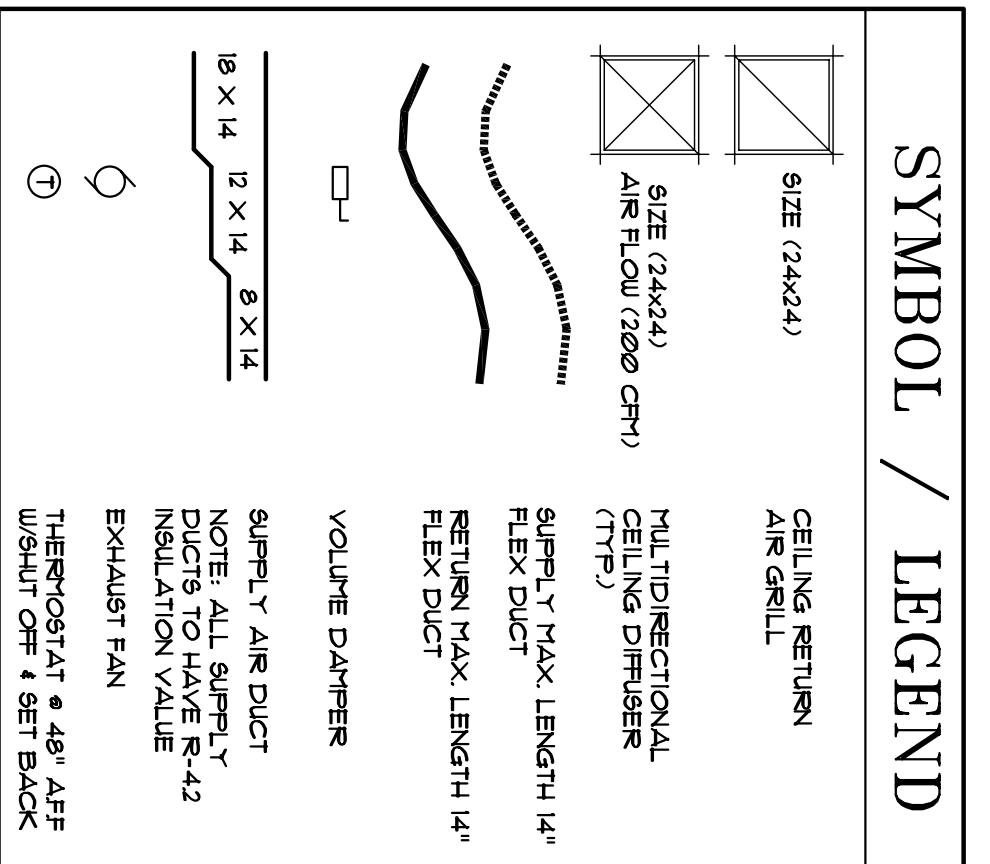
ALL STRAPS TO BE 1/2\"/>



### BRANCH TAKE OFF



### FLEX DUCT CONNECT.

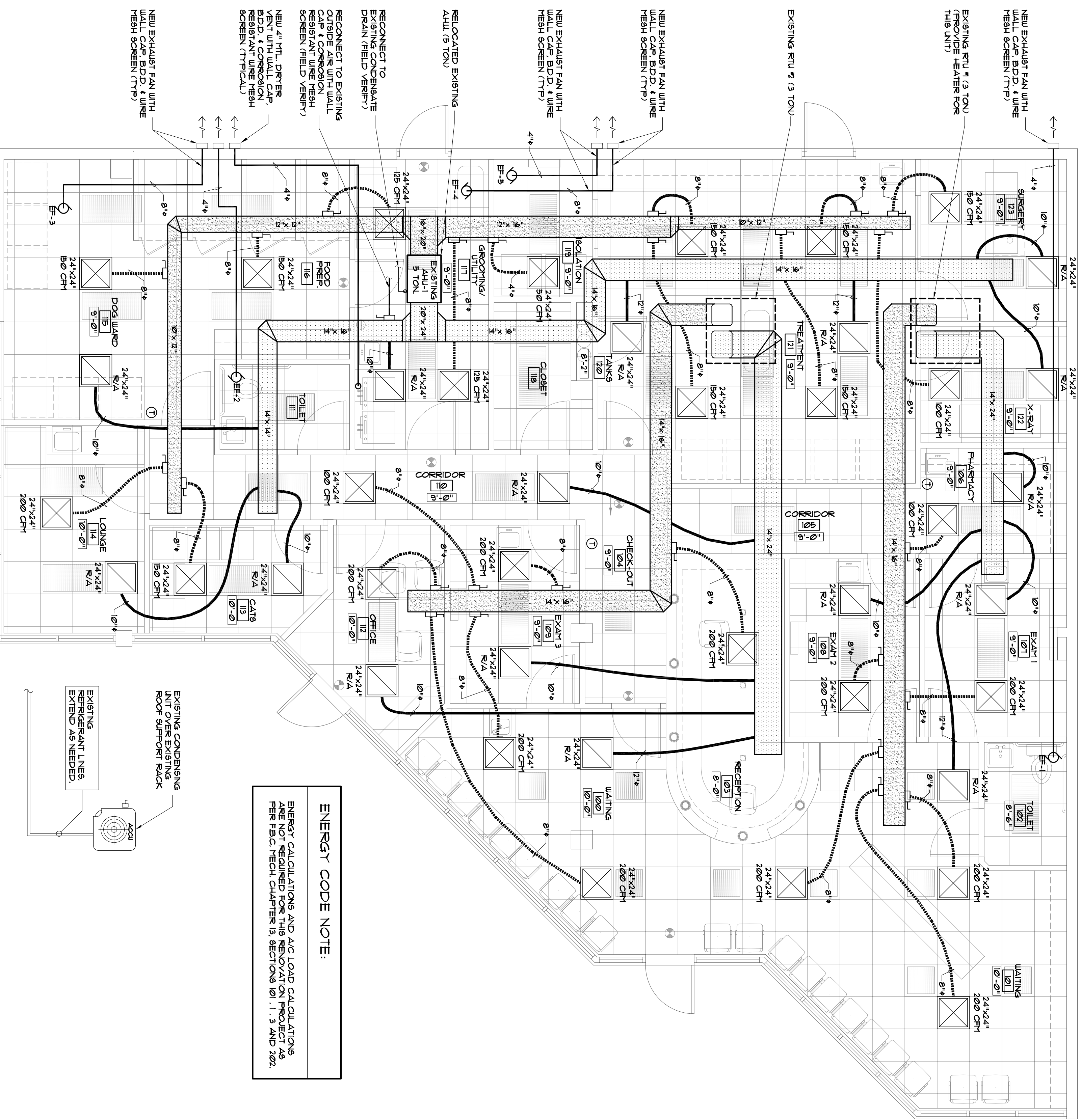


SYSTEM No.	MANUFAC.	CONDENSING UNIT	AHU	SENSIBLE BTU	TOTAL BTU	SEER	HR	ENT. COND.	WEIGHT
AC	RIEEM	RAND060CAZ	RBHFB18H4	36,000	18,000	13.0	10	13.0	180 LBS
RU 1	RIEEM	RKAA036CK000	N/A	24,173	36,000	12.00	12	6.1	208/3/60
RU 2	RIEEM	RKAA036CK000	N/A	24,173	36,000	12.00	10	12	110 LBS

FAN No.	TYPE	CFM	STATIC PRESS.	HP	VOL. PH.	MANUFAC.	MODEL
EF-1,2,4,5	CLG. HTD.	50	0.25	12	UATTS	NITONE	SCRN 50
EF-3	CLG. HTD.	10	0.20	120	UATTS	NITONE	SCRN 100

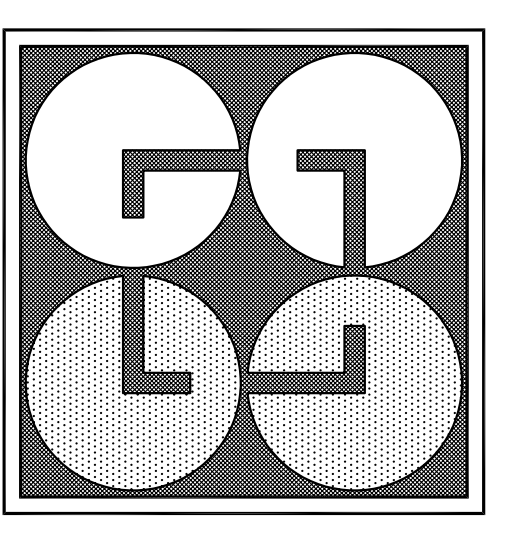
OFFICE AREA (WEST)	OFFICE AREA (EAST)
AS PER TABLE 403.3 - OFFICE - FBC MECHANICAL 2001 1'160 SF x 1 / 1.000 x 20 CFM = 246.4 CFM (REQ.) 280 CFM (PROVIDED)	AS PER TABLE 6-1-1-FET SHOP - ANS/ASHRAE 62.1-2001 R0 x Fz + Ra x Az = Vz 15 x 12 + 0.18 x 131 = 294.6 CFM (REQUIRED) 300 CFM (PROVIDED)

YES	NO
	X
	X
	X
	X
	X
	X
	X
	X



### MECHANICAL PLAN

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



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 FORT LAUDERDALE, FL 33312  
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SEAL

CARLOS LOZANO  
 STATE OF FLA. REG. NO. 0014722

A VETERINARY CLINIC FOR:  
**DR. JENNIFER JOHNSON**  
 DELRAY BEACH FLORIDA  
 15200 S. JOG ROAD  
 PALM BEACH COUNTY

SHEET TITLE :  
 MECHANICAL PLAN  
 SCHEDULES & DETAILS

JOB No.:  
 DATE: 10/10/11

SHEET  
**M-1**  
 OF