PICTURE OF EXISTING DISCONNECT AND WHIPS

HOLLYWOOD NAILS HVAC CALCULATIONS

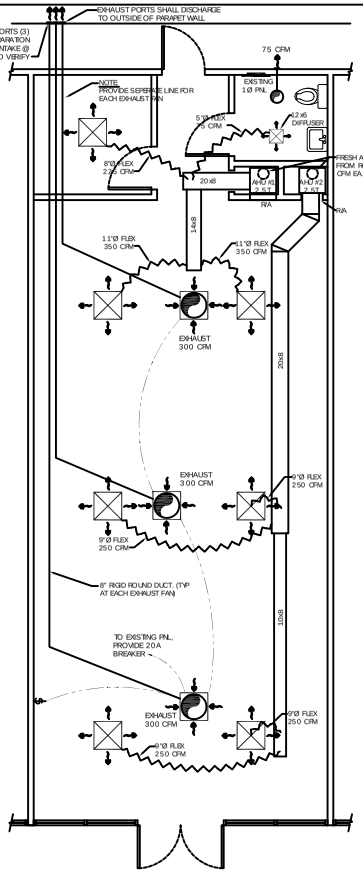
MON OCT 27 13:57:55 EDT 2008
THE BTUH GAIN FOR 184.5 SQFT OF SOUTHEAST AND SOUTHWEST DOUBLE PANE GLASS = 18450
THE BTUH GAIN FOR 410 SQFT OF WOOD R-13 &1/2" GYPSUM WALL NUMBER 1 = 943
THE BTUH GAIN FOR 1066 SQFT OF ROOF ONLY 8" - 9.5" R-30; CEILING NUMBER 1 = 3411.2
THE BTUH GAIN FOR 23.5 PEOPLE = 235
THE BTUH GAIN FOR 1066 SQFT OF AREA LIGHTING IN AN NAIL SALON = 3198
THE NAIL SALON SPACE OUTSIDE FRESH AIR = 590 CFM
THE BTUH GAIN FOR OUTSIDE FRESH AIR = 17700
THE TOTAL OUTSIDE FRESH AIR CFM = 590
THIS IS IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE 2003, TABLE 403.3
THE TOTAL BTUH GAIN = 40337.2
THE TOTAL TONS OF HVAC NEEDED = 3.661417

CONTRACTOR NOTES:

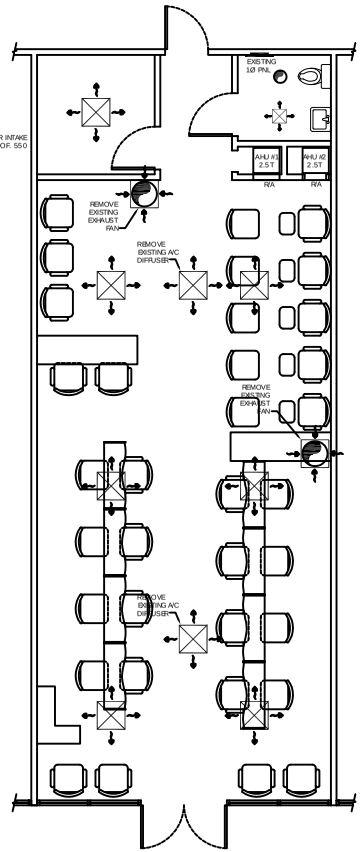
1. PROVIDE SWITCH TO ACTIVATE NEW EXHAUST FANS. HVAC BLOWER MOTORS MUST ENGAGE WHEN EXHAUST FANS ARE RUNNING TO ENSURE PROPER AIR CIRCULATION AND VENTILATION.
2. NEW EXHAUST FANS AND PARTS OF EXHAUST SYSTEM IN CONTACT WITH EXPLOSIVE OR FLAMMABLE VAPORS, FUMES, OR DUSTS SHALL BE OF NONFERROUS OR NONSPARKING MATERIALS, OR THEIR CASING SHALL BE LINED OR CONSTRUCTED OF SUCH MATERIAL IN ACCORDANCE WITH IMC 2006, SEC 503.2
3. FIELD VERIFY ALL PARTITION WALLS ARE CONSTRUCTED TIGHT TO ROOF DECK AND SEALED WITH AN APPROVED FIRE CAULK.

MECHANICAL NOTES

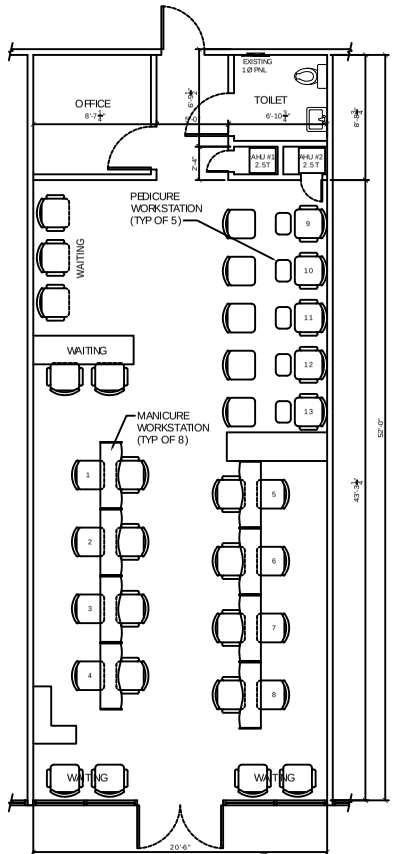
1. CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACA STANDARDS. LINE WITH NEOPRENE COATED 1.0," 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE U.L. LISTED 125 °F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED. AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIEDTO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILINGS.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMESAND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
19. MECHANICAL PLANS ARE DRAWN SCHEMATICALLY. CONTRACTOR TO ROUTE DUCT SYSTEMS PER FIELD CONDITIONS.
20. AREA OF REFUGE SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 92A, TO INCLUDE STAIRWELL PRESSURIZATION SYSTEMS. PROVIDE PROPER ACTIVATION AND CONTROL SYSTEMS.



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



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



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

LEGEND

- INDICATES NEW PRE-INSULATED FLEXIBLE DUCT SIZE PER PLAN MAX LENGTH 14'-0"
- INDICATES NEW SHEET METAL DUCTWORK, SIZES INDICATED ARE SHEET METAL DIMENSIONS. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION
- INDICATES NEW CEILING DIFFUSER - CFM AS NOTED - 24 x 24 UNLESS OTHERWISE NOTED.
- EXHAUST FAN
- A/C UNIT

FRESH AIR REQUIREMENTS PER IMC 2003, TABLE 403.3

ROOM NAME	SQUARE FEET	CFM O.A.	A/C ZONE	TOTAL REQ. O.A.
TOTAL 1100 s.f.				
NAIL SALON	1100	1100	1	1100

A/C UNIT SCHEDULE

NO.	TOTAL BTU	CFM	O.A.	HEAT (KW)	ELECTRICAL VOLTAGE	MCA	CKT BRKR	COMMENTS
1	30,000 2.5 TON	1000	550	10	240V,1Ø	18.7		
2	30,000 2.5 TON	1000	550	10	240V,1Ø	18.7		

AIR BALANCE SCHEDULE

	AHU-1	AHU-2	EF-1	TOILET EF	COMMENTS
OUTSIDE AIR FLOW (CFM)	550	550			
RETURN AIR FLOW (CFM)	450	450			
SUPPLY AIR FLOW (CFM)	1000	1000			
EXHAUST AIR FLOW (CFM)			300	75	
BUILDING PRESSURE (CFM)	+550	+550	-300	-75	
QUANTITIES	1	1	3	1	
TOTAL PRESSURIZATIONS	+550	+550	-900	-75	
REMARKS					
RESULTING BUILDING PRESSURIZATION (CFM) = +125					

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RENOVATION PLAN

REV:

SCALE: AS NOTED

JOB#:

DATE: 10-31-08

SHEET 1

M-1

OF 1