



**2nd FLOOR MECHANICAL PLAN**  
SCALE: 3/16" = 1'-0"

LEGEND  
 - FIRE DAMPER  
 - SUPPLY AIR  
 - EXHAUST FAN

**HVAC 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 SMACNA 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 EXHAUSTS.
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 SUPPLIED TO 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 CEILING.
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 FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).

A/C UNIT SCHEDULE							
NO.	TOTAL BTU	CFM	O.A.	HEAT ELEC.	ELECTRICAL	COMMENTS	
				VOLTAGE	MCA	GRT BRKR	
1	120,000	4,000	870	15 kW 240V, 3ø	-	PL-1 (1.3)	YORK (VERIFY WITH OWNER)
2	60,000	2,000	150	15 kW 240V, 3ø	-	PL-2 (1.3)	
3	60,000	2,000	200	15 kW 240V, 3ø	-	PL-3 (1.3)	

**FRESH AIR REQUIREMENTS PER IMC 2003, TABLE 403.3**

ROOM NAME	SQUARE FEET	OCCUPANTS	CFM O.A. / OCC.	TOTAL REQ. O.A. (cfm)
DORMITORY	~2900	58	15	870
KITCHEN	210	4.2	15	65
LOUNGE AREA	730	21.9	15	330
TV ROOM	250	112.5	15	115
TOILET ROOMS	700	-	-	1175
FUTURE LOUNGE	920	27.6	15	760
				415

\* 20 cfm PER SHOWER HEAD, PLUS 75 cfm PER TOILET

**2nd FLOOR MECHANICAL PLAN**  
DALE KIMBALL  
2515 CAREY STREET  
SLIDELL, LOUISIANA

ALDRERSGATE UNITED METHODIST  
**DAMMON ENGINEERING, INC.**  
 1095 FLORIDA AVENUE 985-649-5832 SLIDELL, LA. 70458  
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SHEET 6  
 M-1  
 JOB NO. 1795  
 DATE: 08-15-06  
 SCALE: AS NOTED  
 REVISED: 2-17-09  
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