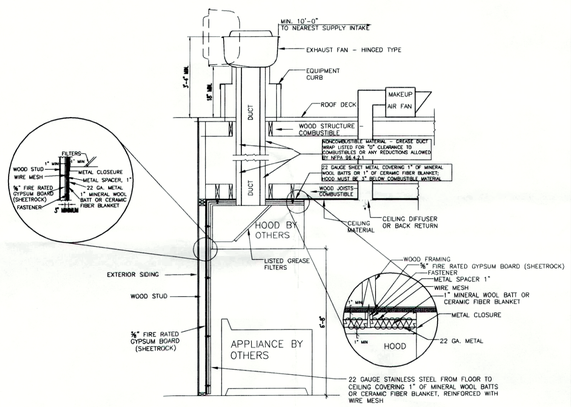
## HVAC NOTES

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 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. ALL DUCTWORK & HVAC ARE DRAWN DIAGRAMATICALLY.

## LEGEND

- SUPPLY AIR
- RETURN AIR
- EXHAUST FAN
- A/C UNIT
- PTAC
- THERMOSTAT
- SMOKE DAMPER
- SMOKE WALL
- 1 HOUR RATED WALL WP 9021




TYPICAL HOOD & DUCT INSTALLATION W/CLEARANCE REDUCTION MATERIALS TO PROTECT COMBUSTIBLES
N.T.S

NOTE:
HOOD MANUFACTURER SHALL SUBMIT TO THE FIRE MARSHALL FOR APPROVAL

### EXHAUST FAN SCHEDULE

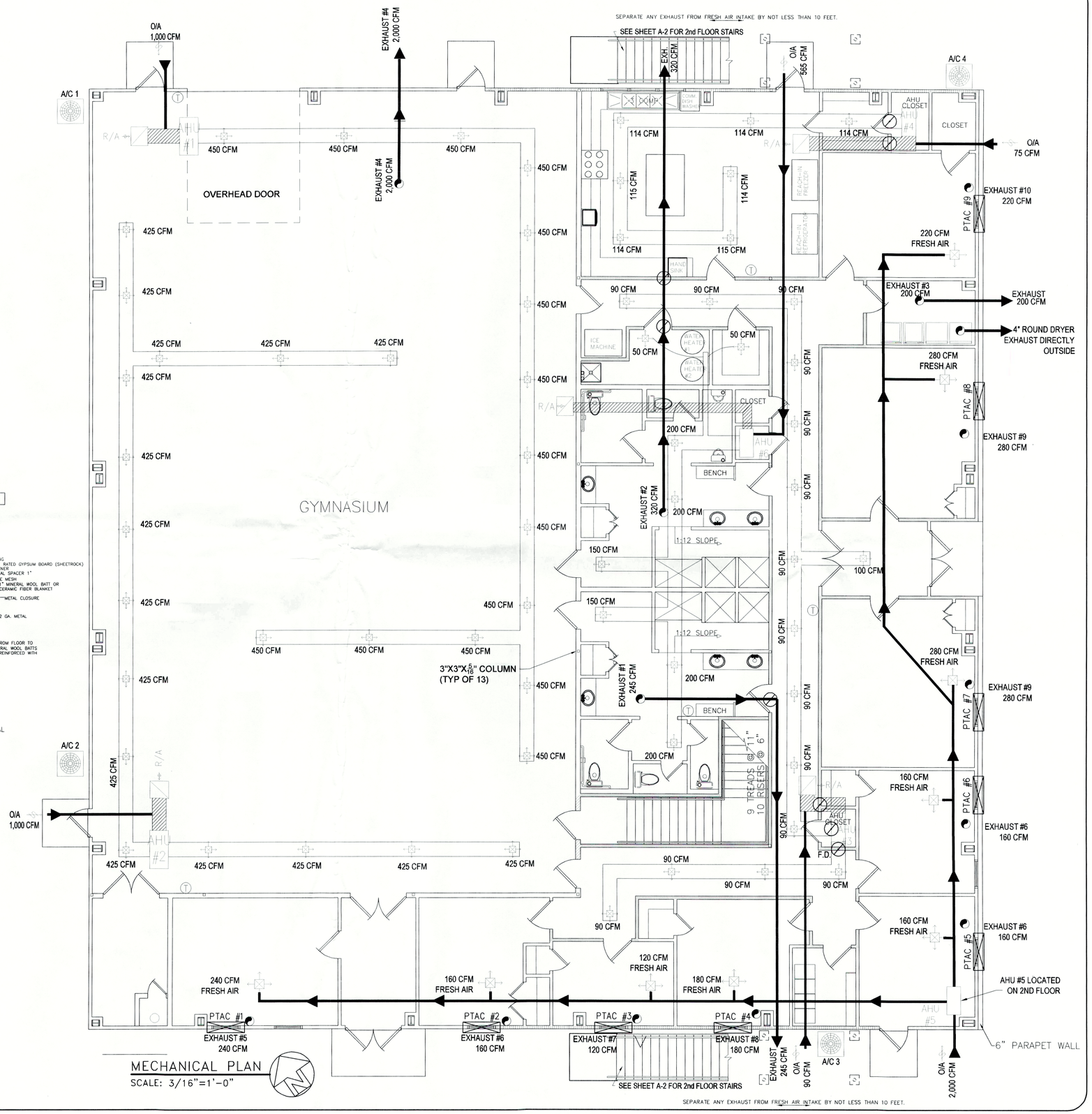
| LOC | CFM | VOLTAGE | TYPE | MANF. |
|---|---|---|---|---|
| TLTS. | 600 | 120 | VENT | BROAN |

### A/C UNIT SCHEDULE

| NO. | TOTAL BTU | CFM | O.A. | HEAT ELEC. | ELECTRICAL VOLTAGE | MCA | CKT BRKR | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| 1 | 204,000 17 TON | 6,800 | 1,000 | 20 KW | 208V, 3ø | – | – | GYMNASIUM |
| 2 | 204,000 17 TON | 6,800 | 1,000 | 20 KW | 208V, 3ø | – | – | GYMNASIUM |
| 3 | 60,000 5 TON | 3,000 | 90 | 10 KW | 208V, 3ø | – | – | CLASS RM CORRIDOR |
| 4 | 24,000 2 TON | 800 | 75 | 5 KW | 208V, 3ø | – | – | KITCHEN |
| 5 | 60,000 5 TON | 2,000 | 2,000 | 10 KW | 208V, 3ø | – | – | FRESH-AIR CLASSRM |
| 6 | 36,000 3 TON | 1,200 | 565 | 5 KW | 208V, 3ø | – | – | RESTROOMS |

### P-TAC CLASSROOM A/C UNIT SCHEDULE

| NO. | TOTAL BTU | CFM | HEAT (KW) | ELECTRICAL VOLTAGE | MCA | CKT BRKR | COMMENTS |
|---|---|---|---|---|---|---|---|
| 1,7,8,9 | 14,500 | 350 | 4 | 208V,3ø | 20.3 | 25A | FRIEDRICH |
| 2,3,4,5,6 | 11,800 | 325 | 4 | 208V,3ø | 20.3 | 25A | |




MECHANICAL PLAN
SCALE: 3/16"=1'-0"

MECHANICAL PLAN

ALDERSGATE UNITED METHODIST
360 ROBERT BLVD.
SLIDELL, LOUISIANA

SUNDAY SCHOOL/GYMNASIUM


DAMMON ENGINEERING. INC.
1095 FLORIDA AVENUE 985-649-5832 SLIDELL, LA. 70458
DAMMONENGINEERING.COM


REVISED: 11-8-07

SCALE:AS NOTED

FILE:

JOB NO. 1849

DATE: 8-21-07

SHEET M-1 OF