



1 LEVEL 3 MECHANICAL PLAN - SOUTH
M1.03B SCALE: 1/8" = 1'-0"

SHAFT DUCT SIZES

| FLOOR | SUPPLY AIR | CFM | RETURN AIR | CFM | UNIT |
|-------|------------|------|------------|-----|-------|
| ATTIC | 26 X 26 | 4000 | NA | NA | RTU-1 |
| 5TH | 26 X 22 | 2290 | NA | NA | RTU-1 |
| 4TH | 26 X 22 | 1720 | NA | NA | RTU-1 |
| 3RD | 26 X 18 | 1150 | NA | NA | RTU-1 |
| 2ND | 26 X 18 | 570 | NA | NA | RTU-1 |
| 1ST | 26 X 18 | 1150 | NA | NA | RTU-1 |
| BSMNT | 26 X 18 | 570 | NA | NA | RTU-1 |

SHAFT DUCT SIZES

| FLOOR | SUPPLY AIR | CFM | RETURN AIR | CFM | UNIT |
|-------|------------|------|------------|-----|-------|
| ATTIC | 26 X 26 | 4000 | NA | NA | RTU-2 |
| 5TH | 26 X 22 | 2290 | NA | NA | RTU-2 |
| 4TH | 26 X 22 | 1720 | NA | NA | RTU-2 |
| 3RD | 26 X 18 | 1150 | NA | NA | RTU-2 |

VENTILATION CALCULATIONS:

ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION, BATHROOM EXHAUST FANS RUN CONTINUOUSLY (SIZED PER ASHRAE 62.2).

COMMON SPACES AND HALLWAYS ARE VENTILATED BY PACKAGED ROOF TOP UNITS SIZED TO EXCEED THE MINIMUM 0.06 CFM/SQ FT REQUIREMENT

SEE VENTILATION SCHEDULES FOR OTHER UNITS

- KEY NOTES:**
- (A) SUPPLY DUCT FROM ROOF TO 2ND FLOOR CEILING - TRANSITION TO SMALLER DUCT SIZES AFTER SUPPLY BRANCH TAKE OFF, SEE CHART.
 - (B) PANASONIC WHISPERGREEN CEILING FAN WITH 4" DUCT TO ROOFTOP DOGHOUSE/SIDEWALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE (EF 2) (M6.02) (1)
 - (C) 7" HOOD DUCT TO SIDEWALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE INTERMITTENTLY.
 - (D) EXTERIOR EXHAUST PLENUM - SEE (2) (M6.02) MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND DOORS.
 - (E) AC PORT IN BEDROOMS DETAIL, SEE (2) (M6.02) FOR
 - (F) IN-LINE CEILING FAN FOR 1-BEDROOM DWELLING UNITS, SEE FAN LOCATED ABOVE FALSE CEILING AND BELOW FIRE RATED FLOOR/CEILING ASSEMBLY. W/ TYPICAL 18X18 ACCESS PANEL.
 - (G) X" OUTSIDE AIR TO FAN COIL, PROVIDE WITH 2-POSITION DAMPER TO OPEN WHENEVER FAN COIL OPERATES. DAMPER TO BE A LOW LEAK CLASS 1 DAMPER.
 - (H) REFRIGERANT LINESETS ROUTED FROM CONDENSING UNITS ON ROOF TO FAN COILS ON ALL FLOORS.
 - (I) FOR DUCTED FAN COIL DETAIL, SEE (1) (M6.03)

- (H) REFRIGERANT LINESETS ROUTED FROM CONDENSING UNITS ON ROOF TO FAN COILS ON ALL FLOORS.
- (I) FOR DUCTED FAN COIL DETAIL, SEE (1) (M6.03)
- (J) X KW WALL HEATER QMARK AWH404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- (K) SUPPLY AIR OR RETURN GRILLE, SIZED FOR BOTH FREE AREA AND FOR ACTUATOR ACCESS, SEE (2) (M6.03) FOR GRILLE INSTALLATION, AND SEE (3) (M6.03) FOR TYPICAL F/S INSTALLATION AND CONTROLS.
- (L) ROOM TO ROOM TRANSFER FAN FOR DARK BEDROOMS. TJERLUND AS-1 WITH WALL MOUNTED SWITCH. BLOWER FAN MOUNTED LOW IN LIVING ROOM, WITH HIGH DISCHARGE IN BEDROOM. SET APPROXIMATELY 8" AFF, AND 8" BELOW (3) (M6.01) CEILING. SET BOTH INTAKE AND SUPPLY ABOVE DOOR ON UNITS LOCATED ABOVE ENTRY DOOR.
- (M) 6x6 SA CEILING SUPPLY GRILLE, SEE (1) (M6.01) TYPICAL CEILING GRILLE IN KITCHEN TO BE LOCATED BETWEEN 3' & 10' OF (1) (M6.01) COOKING SURFACE.
- (N) TYPICAL COVE HEATER FOR EACH BEDROOM. TYPICAL WALL T-STAT FOR COVE HEATERS -- COORDINATE EXACT LOCATION WITH ARCHITECT.
- (O) AMANA PTHP (PACKAGED TERMINAL HEAT PUMP) WITH FACTORY WALL SLEEVE, CONDENSATE DRAIN KIT, AND 42X16 ALUMINUM ARCHITECTURAL GRILLE AT EXTERIOR. INSTALL GRAVITY CONDENSATE DRAIN KIT, PLUMBING CONTRACTOR TO MAKE CONNECTION AT DRAIN KIT AND CONTINUE DRAIN LINE TO AN APPROVED LOCATION.
- (P) FIRE PENETRATION DETAILS, SEE (1) (M6.02) (4) (M6.02) (5) (M6.02)
- (Q) 16X16 NON RATED ACCESS PANEL FOR FSD.

ALL DUCTWORK TO BE ROUTED UNDER THE RATED FLOOR/CEILING ASSEMBLY. ALL DUCTWORK LOCATED EITHER IN SOFFIT OR EXPOSED BELOW RATED CEILING.

ALL VENTILATION PROVIDED BY NATURAL VENTILATION OPERABLE PORTION OF WINDOWS TO BE GREATER THAN OR EQUAL TO 4% OF DWELLING UNIT FLOOR AREA. NO WINDOW LIMITERS ON ANY WINDOW AND ALL BEDROOMS TO INCLUDE OPERABLE WINDOWS FOR CODE REQUIRED VENTILATION

