

SYMBOLS

ROOF TOP AIR CONDITIONING UNIT SCHEDULE

| TAG | LOCATION | SERVICE | MIN. OUTSIDE AIR (CFM) | SUPPLY FAN DATA | | | | COOLING PERFORMANCE | | | | HEATING PERFORMANCE | | | | ELECTRICAL DATA | | | | EFFICIENCY | | WEIGHT (LBS.) | UNIT DIMENSIONS | MANUFACTURER / MODEL | NOTES | | | | | | | | |
|-------|----------|-----------|------------------------|-----------------|----------|----------------|-----|---------------------|-----------|-----|----------------------|-------------------------|--------------|---------------------------|----------|-----------------|----------|------|----------------------|------------|------|---------------|-----------------|----------------------|-------|------|------|------|-----------|-------|--------------------|---------------------|-----|
| | | | | CFM | FAN QTY. | ESP (IN. W.C.) | RPM | BHP | COIL SIZE | | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | HEATING TYPE | OUTDOOR AMBIENT TEMP (°F) | EAT (°F) | | LAT (°F) | | TOTAL CAPACITY (MBH) | V/PH/HZ | FLA | | | | | MCA | MOP | EER | IEER/SEER | | | | |
| | | | | | | | | | ROWS | FPI | | | | | DB | WB | DB | WB | | | | | | | | | | | | DB | WB | DB | WB |
| RTU-1 | ROOF | SEE PLANS | 300 | 2,000 | 1 | 0.75 | - | - | - | - | 80.0 | 67.0 | 57.2 | 57.1 | 58.9 | 46.9 | ELECTRIC | 13.0 | 60.0 | - | 85.0 | - | 30.5 | 208/3/60 | - | 27.0 | 40.0 | 13.0 | 16.4 | 1,100 | 89"L x 53"W x 41"H | TRANE / WHC060H3ROA | 1-9 |

NOTES:

- CONTRACTOR TO COORDINATE UNIT CONFIGURATIONS WITH FIELD CONDITIONS. MAINTAIN ALL SERVICE CLEARANCES AS REQUIRED.
- UNIT SHALL BE CONFIGURED WITH BOTTOM SUPPLY, BOTTOM RETURN CONNECTIONS.
- PROVIDE FACTORY CONTROLS WITH VAV DISCHARGE AIR CONTROL, STATIC PRESSURE CONTROL, VARIABLE SPEED DRIVE AND ENTHALPY ECONOMIZER CONTROL.
- PROVIDE WITH FACTORY DISCONNECT SWITCH AND GFI CONVENIENCE OUTLET TO BE FIELD WIRED.
- PROVIDE WITH VIBRO-ACOUSTIC ROOF CURB, SIMILAR TO THYBAR MODEL "VIBRO-CURB III", WITH MIN. 2" DEFLECTION.
- PROVIDE SINGLE-POINT ELECTRICAL CONNECTION TO UNIT.
- PROVIDE WITH AIR FILTERS RATED FOR 4" THICK, MERV-13.
- PROVIDE WEATHER-HOOD ON INTAKE/RELIEF OPENINGS.
- PROVIDE BAROMETRIC RELIEF HOOD.
- PROVIDE BMS COMMUNICATION CARD.

Acoustics

| Sound Path | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
|------------------|-------|--------|--------|--------|-------|-------|-------|-------|
| Ducted Discharge | 80 dB | 84 dB | 71 dB | 68 dB | 65 dB | 62 dB | 63 dB | 55 dB |
| Ducted Inlet | 75 dB | 73 dB | 62 dB | 59 dB | 57 dB | 53 dB | 51 dB | 44 dB |
| Outdoor Noise | 90 dB | 90 dB | 85 dB | 85 dB | 83 dB | 79 dB | 74 dB | 68 dB |

DIFFUSER, GRILLE & REGISTER SCHEDULE

| TAG | SERVICE | CEILING TYPE | CFM RANGE | NO. OF SLOTS | NECK SIZE (IN.) | FACE OVERALL DIMENSIONS WXL (IN.) | MATERIAL | MAX P.D | NOISE CRITERIA (NC) | MANUFACTURER / MODEL | NOTES |
|------|---------|--------------|-----------|--------------|-----------------|-----------------------------------|----------|---------|---------------------|----------------------|-------|
| SG-1 | SUPPLY | SEE RCP | 0-175 | - | 16"x6" | 18"x8" | ALUMINUM | 0.01 | <20 | TITUS / CT-580 | 1-4 |
| SG-2 | SUPPLY | SEE RCP | 0-700 | - | 42"x8" | 44"x10" | ALUMINUM | 0.01 | <20 | TITUS / CT-580 | 1-4 |
| SG-3 | SUPPLY | SEE RCP | 0-300 | - | 22"x22" | 24"x24" | ALUMINUM | 0.03 | <20 | TITUS / 250-AA | 1-4 |
| RG-1 | RETURN | SEE RCP | 0-200 | - | 16"x6" | 18"x8" | STEEL | 0.02 | <20 | TITUS / 300RL | 1-4 |
| RG-2 | RETURN | SEE RCP | 0-1500 | - | 48"x14" | 50"x16" | STEEL | 0.01 | <20 | TITUS / 300RL | 1-4 |

NOTES:

- DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION BEING INSTALLED IN.
- COORDINATE BORDER TYPES WITH CEILING/WALL CONSTRUCTION.
- PROVIDE CABLE-OPERATED DAMPERS FOR DIFFUSERS IN INACCESSIBLE CEILINGS.
- COORDINATE COLOR AND FINISH WITH ARCHITECT.

EXHAUST FAN SCHEDULE

| TAG | LOCATION | AREA SERVED | CFM | ESP (IN. WC) | FAN RPM | TYPE | ELECTRICAL DATA | | | | INLET dBA (dB) | WEIGHT | MANUFACTURER / MODEL | NOTES |
|------|-------------|-------------|-----|--------------|---------|-----------------|-----------------|-------|-------|---------|----------------|--------|------------------------|--|
| | | | | | | | VOLTAGE | PHASE | WATTS | FLA (A) | | | | |
| EF-1 | RACK CLOSET | RACK CLOSET | 300 | 0.3 | 935 | CEILING-MOUNTED | 115 | 1 | 43.0 | 3.4 | 47 | 32 | GREENHECK / SP-A510-VG | CONTROLLED VIA WALL-MOUNTED THERMOSTAT |

NOTES:

- PROVIDE EC MOTOR WITH MOUNTED POTENTIOMETER DIAL.
- PROVIDE FACTORY DISCONNECT SWITCH.
- PROVIDE VIBRATION ISOLATION KIT AND MOUNTING ACCESSORIES.

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE

| TAG | SIZE | CAPACITY RANGE CFM | MIN CFM | MAX CFM | MINIMUM INLET PRESSURE | CONTROLLER | SOUND ATTENUATOR | RADIANT SOUND PRESSURE (NC) | DISCHARGE SOUND PRESSURE (NC) | MANUFACTURER AND MODEL | NOTES |
|-------|------|--------------------|---------|---------|------------------------|------------|------------------|-----------------------------|-------------------------------|------------------------|-------|
| VAV-1 | 12"ø | 300-1175 | 170 | 2,000 | 1" W.C. | DDC | YES | 20 | 24 | TITUS / DESV | 1-8 |
| VAV-2 | 10"ø | 210-825 | 130 | 1,400 | 1" W.C. | DDC | YES | 22 | 25 | TITUS / DESV | 1-8 |

NOTES:

- REFER TO PLANS FOR ACTUAL DESIGN AIRFLOW VALUES.
- ALL TERMINAL BOXES TO BE DDC.
- CONTRACTOR TO COORDINATE UNIT CONFIGURATIONS WITH FIELD CONDITIONS. MAINTAIN ALL SERVICE CLEARANCES AS REQUIRED.
- PROVIDE WALL-MOUNTED TEMPERATURE CONTROLLER FOR EACH VAV BOX.
- PROVIDE 1" ULTRALOC LINER FOR ALL VAV'S.
- PROVIDE FACTORY MOUNTED CONTROLS.
- PROVIDE TOGGLE DISCONNECT SWITCH.
- PROVIDE MULTI-POINT CENTER AVERAGING INLET VELOCITY SENSOR.

| Revisions | | | |
|------------|---------|------------------|----------|
| REVISION # | DATE | REVISION | APPROVED |
| - | 7/8/21 | FINAL REVIEW SET | |
| - | 9/14/21 | ISSUED FOR BID | |

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PROJECT

Purchase College
Studio A
Renovations

DRAWING NAME

MECHANICAL SCHEDULES

| SEAL & SIGNATURE | SCALE |
|------------------|----------------|
| | NONE |
| | DATE |
| | CAD FILE # |
| | DRAWING NUMBER |
| | M-400.00 |
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