

FOR QUESTIONS, CALL THE  
 Florida National Accounts  
 REGION 60  
 PHONE: (407) 682 - 3100  
 EMAIL: reg60@captiveaire.com

**HOOD INFORMATION - JOB#7432301**

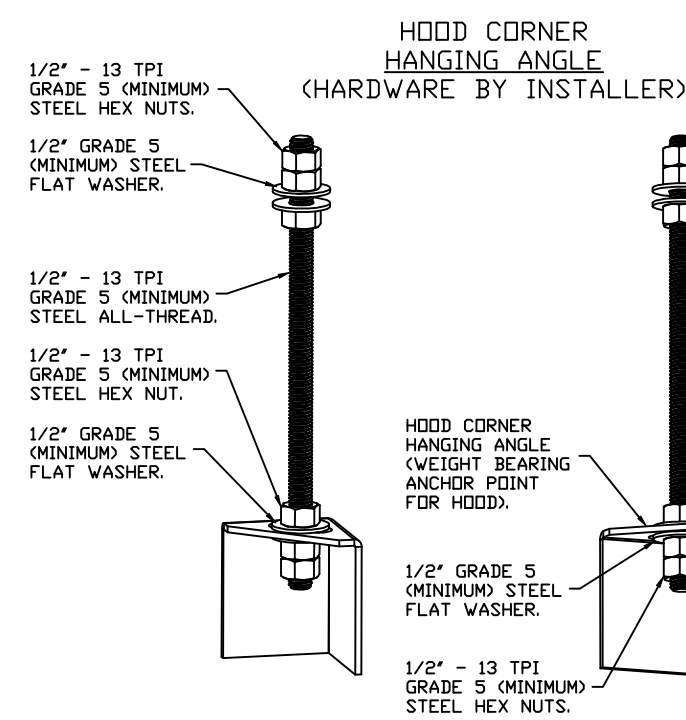
| HOOD NO | TAG          | MODEL           | MANUFACTURER | LENGTH | MAX COOKING TEMP | TYPE | APPLIANCE DUTY | DESIGN CFM/FT | TOTAL EXH CFM | EXHAUST PLENUM RISER(S) |      |        |     |      |      | HOOD CONSTRUCTION | HOOD CONFIG          |            |       |
|---------|--------------|-----------------|--------------|--------|------------------|------|----------------|---------------|---------------|-------------------------|------|--------|-----|------|------|-------------------|----------------------|------------|-------|
|         |              |                 |              |        |                  |      |                |               |               | WIDTH                   | LENG | HEIGHT | DIA | CFM  | VEL  |                   | SP                   | END TO END | ROW   |
| 1       | GRIDDLE HOOD | 3347 BD-2       | CAPTIVEAIRE  | 5' 6"  | 600 DEG          | I    | HEAVY          | 273           | 1500          |                         |      | 4'     | 12" | 1500 | 1910 | -1.412"           | 430 SS WHERE EXPOSED | ALONE      | ALONE |
| 2       | FRYER HOOD   | 3347 BD-2       | CAPTIVEAIRE  | 7' 0"  | 600 DEG          | I    | HEAVY          | 214           | 1500          |                         |      | 4'     | 12" | 1500 | 1910 | -1.090"           | 430 SS WHERE EXPOSED | ALONE      | ALONE |
| 3       | DISH HOOD    | 4224 VHB-G-REM1 | CAPTIVEAIRE  | 3' 6"  | 700 DEG          | II   | N/A            | 100           | 350           |                         |      | 4'     | 8"  | 350  | 1003 | -0.047"           | 430 SS 100%          | ALONE      | ALONE |

**HOOD INFORMATION**

| HOOD NO | TAG          | TYPE                 | FILTER(S) |        |        |                        | LIGHT(S) |                |            |          | UTILITY CABINET(S) |      |      |                    | FIRE SYSTEM PIPING | HOOD HANGING WEIGHT |
|---------|--------------|----------------------|-----------|--------|--------|------------------------|----------|----------------|------------|----------|--------------------|------|------|--------------------|--------------------|---------------------|
|         |              |                      | QTY       | HEIGHT | LENGTH | EFFICIENCY @ 7 MICRONS | QTY      | TYPE           | WIRE GUARD | LOCATION | SIZE               | TYPE | SIZE | ELECTRICAL MODEL # |                    |                     |
| 1       | GRIDDLE HOOD | CAPTRATE SOLO FILTER | 4         | 16"    | 16"    | 85% SEE FILTER SPEC    | 3        | L55 SERIES E26 | NO         |          |                    |      |      |                    | NO                 | 235 LBS             |
| 2       | FRYER HOOD   | CAPTRATE SOLO FILTER | 5         | 16"    | 16"    | 85% SEE FILTER SPEC    | 4        | L55 SERIES E26 | NO         |          |                    |      |      |                    | NO                 | 290 LBS             |
| 3       | DISH HOOD    |                      |           |        |        |                        | 0        |                |            |          |                    |      |      |                    | NO                 | 151 LBS             |

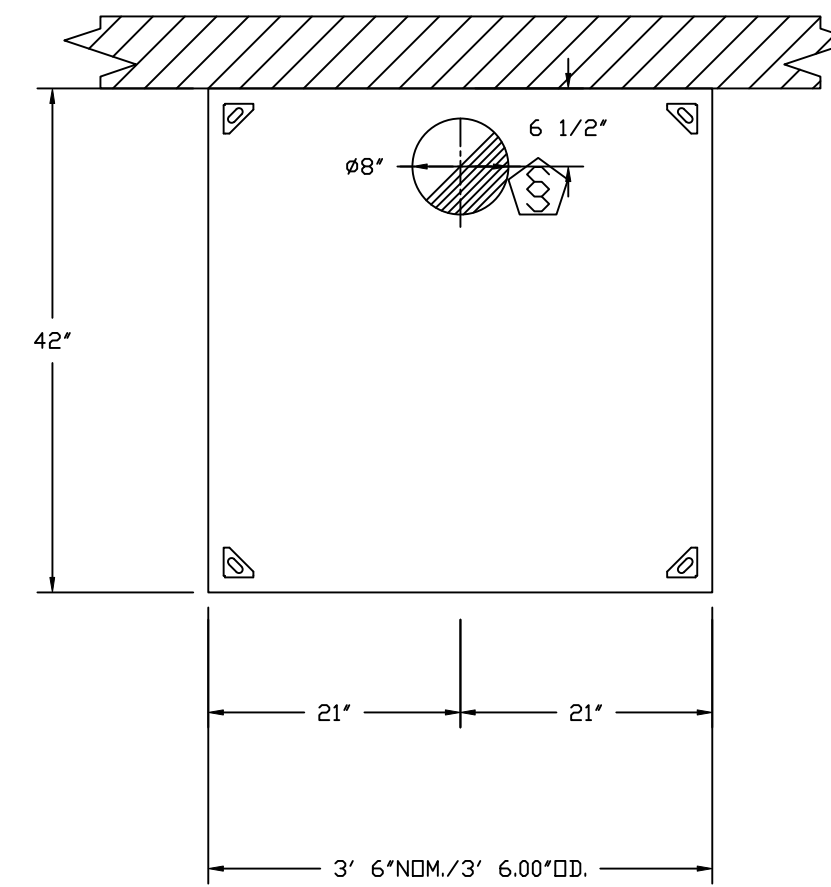
**HOOD OPTIONS**

| HOOD NO | TAG          | OPTION   |
|---------|--------------|--|
| 1       | GRIDDLE HOOD | FIELD WRAPPER 14.00" HIGH FRONT, LEFT, RIGHT.                                      |
|         |              | RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.           |
|         |              | LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. SENSOR-CV. |
| 2       | FRYER HOOD   | FIELD WRAPPER 14.00" HIGH FRONT, LEFT, RIGHT.                                      |
|         |              | RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.           |
|         |              | LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. SENSOR-CV. |

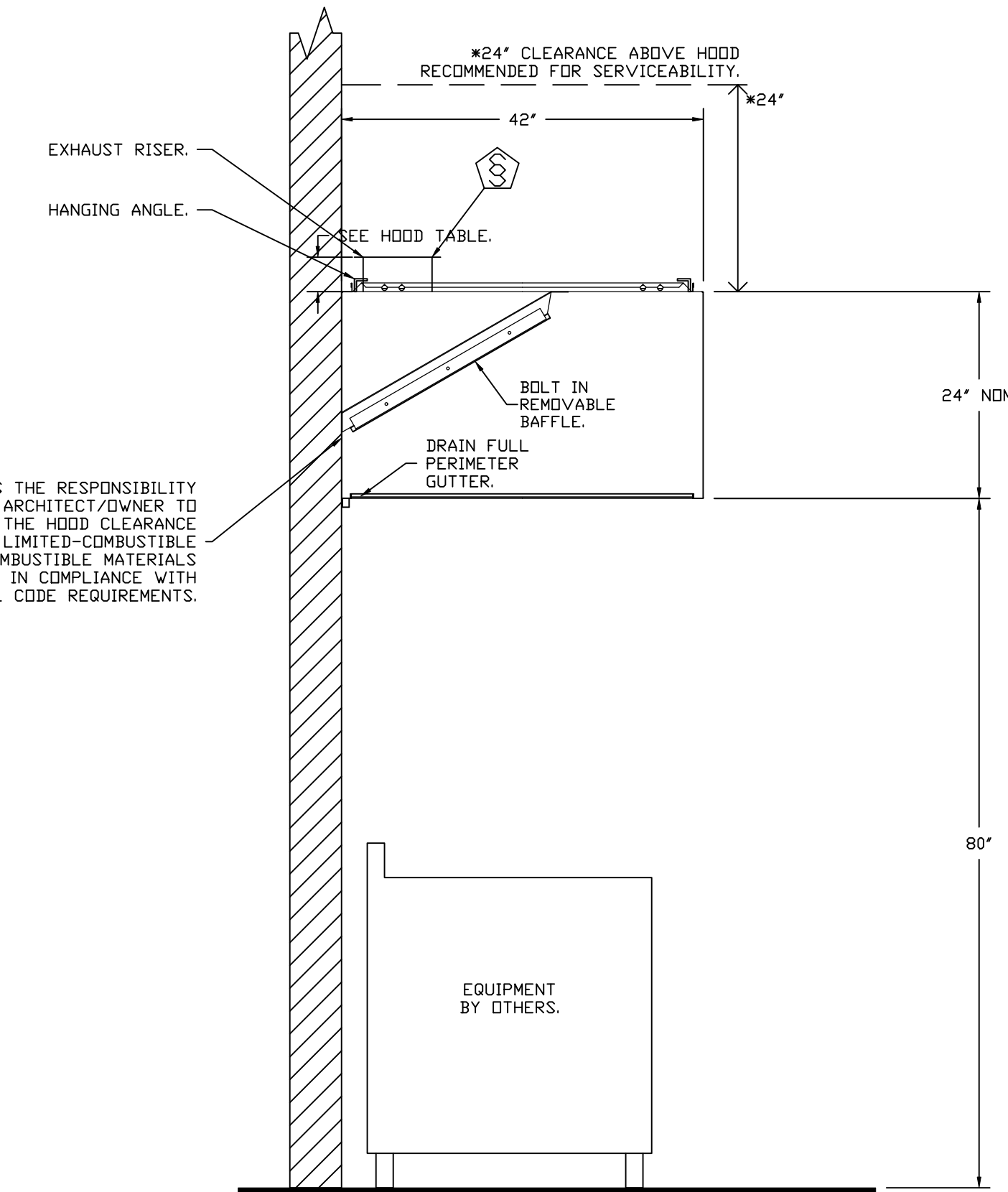


**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



PLAN VIEW - HOOD #3 (DISH HOOD)  
 3' 6.00" LONG 4224VHB-G-REM1



SECTION VIEW - MODEL 4224VHB-G-REM1  
 HOOD - #3 (DISH HOOD)

**SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER**

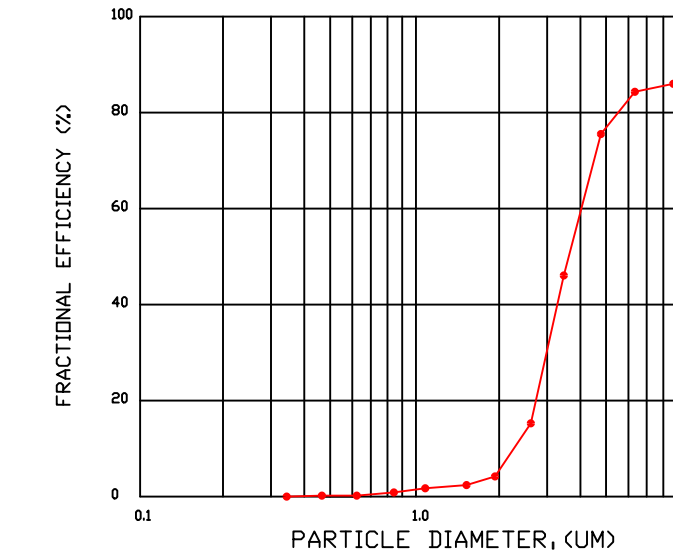
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

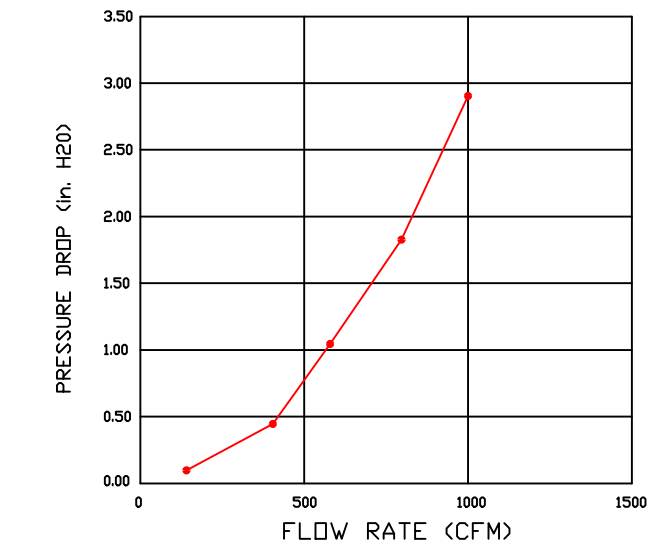
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
 NFPA #96.  
 NSF STANDARD #2.  
 UL STANDARD #1046.  
 INT. MECH. CODE (IMC).  
 ULC-S649.



**REVISIONS**

| DESCRIPTION | DATE |
|-------------|------|
|             |      |
|             |      |
|             |      |
|             |      |

**CAPTIVEAIRE**

Florida National Accounts  
 239 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 682 - 3100 FAX: 9192275913 EMAIL: reg60@captiveaire.com

CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

DATE: 10/8/2025  
 DWG.#: 7432301  
 DRAWN BY: studdy jr  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

**SHEET NO.**  
 1

**OUTSIDE AIR CALCULATIONS:**

**RESTAURANT DINING ROOM OCCUPANCY:**  
 NET OCCUPIABLE SPACE = 1835 SQ. FT.  
 1835 x .18 = 330.3 CFM  
 CUSTOMER SEATING: 80 PERSONS  
 STAFF: 20 PERSONS  
 TOTAL PERSONS X .15 + .18 = NET SQ. FT. + REQ'D CFM.  
 (100 x .15) + (18 x 1835) = 1020.3 CFM REQUIRED.  
**OUTSIDE AIR PROVIDED:**  
 RTU-1 = 2,000 CFM  
 TOTAL: 2,000 CFM - IN COMPLIANCE.

**RESTAURANT KITCHEN OCCUPANCY:**  
 NET OCCUPIABLE SPACE = 1415 SQ. FT.  
 TOTAL PERSONS X .15 + .12 = NET SQ. FT. + REQ'D CFM.  
 1415 x .12 = 169.8 CFM  
 KITCHEN STAFF: 20 PERSONS  
 TOTAL PERSONS X .15 + .12 = NET SQ. FT. + REQ'D CFM.  
 (20 x .15) + (12 x 1415) = 319.8 CFM REQUIRED.  
**OUTSIDE AIR PROVIDED:**  
 RTU-2 = 2,000 CFM  
 TOTAL: 2,000 CFM - IN COMPLIANCE.

**REGISTERED ENGINEER'S OUTSIDE AIR DESIGN NOTE:**  
 TABLE 403.3 DEFAULT OCCUPANCY IS NOT USED BECAUSE THE OCCUPANCY IS A KNOWN FACTOR AND HENCE, USED IN THIS CALCULATION AS DEMONSTRATED ABOVE AND CERTIFIED HEREIN.  
 SECTION 403.3.1 EXCEPTION STATES: "The occupant load is not required to be determined based on the estimated maximum occupant load rate indicated in Table 403.3.1 where approved statistical data document the accuracy of an alternate anticipated occupant density."  
 THIS OCCUPANCY IS DEMONSTRATED AND CERTIFIED BY THE REGISTERED ENGINEER IN THE BODY OF THIS CALCULATION.  
**ENGINEER'S ADDITIONAL NOTE:**  
 THE DINING ROOM SEATING IS A KNOWN FACTOR THROUGH THE SEATING SHOWN WHICH JUSTIFIES THE OUTSIDE AIR CALCULATION AS SHOWN COMPLIES WITH CODE. THE DINING SQUARE FOOTAGE SHOWN IS THE TOTAL SQUARE FOOTAGE NOT THE NET OCCUPIABLE SPACE ALTHOUGH CODE ALLOWS 'NET OCCUPIABLE SPACE'. THE KITCHEN SQUARE FOOTAGE IS ALSO THE TOTAL SQUARE FOOTAGE. THE NUMBER OF STAFF SHOWN IN THE KITCHEN (20) IS ALMOST DOUBLE THE ACTUAL AND IS EXAGGERATED TO MORE CLEARLY DEMONSTRATE THAT THE OUTSIDE AIR REQUIREMENT IS BEING MET. FINALLY, THE DINING OUTSIDE AIR IS 1900 CFM WHICH IS 834.6 CFM MORE THAN REQUIRED. THE KITCHEN OUTSIDE AIR IS 1850 CFM WHICH IS 1630.09 CFM MORE THAN REQUIRED. TOTAL OUTSIDE AIR FOR BOTH ZONES IS EXCEEDED.

**PLAN NOTES**

1. INSTALLATION SHALL COMPLY WITH 2012 IMC AND 2009 IECC AND ALL APPLICABLE LAWS, CODES AND ORDINANCES.
2. DUCTWORK HAS BEEN COORDINATED WITH THE PROPOSED TRUSS LAYOUT. ACTUAL INSTALLED CONFIGURATION MAY DIFFER FROM ORIGINAL PLANS. COORDINATE WITH THE GENERAL CONTRACTOR AS TRUSSES ARE INSTALLED TO CONFIRM DUCT LAYOUT AS DESIGNED WILL WORK WITH THE INSTALLED TRUSS CONFIGURATION. MINOR MODIFICATIONS IN LOCATIONS MAY BE REQUIRED.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER AS REQUIRED PER 2009 IECC.
4. THE ENTIRE BUILDING IS CONDITIONED EXCEPT FOR THE COOLER AND FREEZER. TOTAL BUILDING SQUARE FOOTAGE IS 4332. AREA OF COOLER/FREEZER IS 718 SQ. FT. TOTAL CONDITIONED SQUARE FOOTAGE IS 3614 SQ. FT.

**NOTE:**  
 THE DESIGN, INSTALLATION, OPERATION, INSPECTION, AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COMMERCIAL COOKING EQUIPMENT SHALL COMPLY WITH CHAPTER FPFC 150.01 AND VFA 86. STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. KITCHEN HOOD PLANS, COMPLIANT WITH THE ABOVE, SHALL BE PERMITTED SEPARATELY.

**NOTE:**  
 A SEPARATE PERMIT HAS BEEN SUBMITTED FOR THE MECHANICAL EXHAUST HOODS AND ANSUL SYSTEM BY THE MECHANICAL CONTRACTOR.

**KEYED NOTES:**

1. EXHAUST DUCTS FROM CEILING EXHAUST FANS TO GREENHECK ROOF EXHAUST VENTILATOR. TRANSITION FROM THROAT TO 14x14 PLENUM DUCT AND EXTEND DOWN 12" BELOW JOISTS FOR CONNECTION OF EXHAUST DUCT(S).
2. FRV-2 ON ROOF. TRANSITION FROM FAN OPENING TO 12x12 WELDED STEEL EXHAUST DUCT AND EXTEND DOWN TO HOOD EXHAUST OPENING. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
3. FRV-3 ON ROOF. TRANSITION FROM FAN OPENING TO 12x12 WELDED STEEL EXHAUST DUCT AND EXTEND DOWN TO HOOD EXHAUST OPENING. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
4. EXTEND 4" GALVANIZED SNAP-LOK DRYER VENT FROM DRYER UP TO ABOVE CEILING AND UP TO ROOF. TOTAL DEVELOPED LENGTH IS LESS THAN 25 FEET AND WELL UNDER THE MANUFACTURER'S MAXIMUM VENTING DISTANCE.
5. PROVIDE SURFACE MOUNT FRAME FOR INSTALLATION IN GYP/HARD CEILING.
6. UNIT WEIGHTS ARE LISTED FOR COORDINATION. VERIFY EXACT LOCATION WITH GC.
7. INSTALL THERMOSTATS FOR RTU-1 & RTU-2 IN MANAGERS OFFICE WITH SENSORS AT INDIVIDUAL ZONES AS INDICATED.
8. FLEX CONNECTION FROM RETURN AIR DUCT THROUGH TRUSS WEBBING.
9. TRANSITION FROM RTU-2 RETURN AIR OPENING TO 36x20 AND EXTEND DOWN TO ELEVATION WHICH WILL ALLOW FOR EXTENDING THE CONNECTIONS WITH VOLUME DAMPERS TO RETURN GRILLES AS INDICATED. FIELD COORDINATE PRIOR TO INSTALLATION.
10. RIGID CONNECTIONS FOR TYPE 'E' DIFFUSERS ON COOK LINE AND DIFFUSER OVER ICE MACHINE. SEE DETAIL 'E' ON SHEET M2.
11. STAINLESS STEEL WALL PANEL AT HOOD. FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
12. FRV-4 ON ROOF. TRANSITION FROM FAN OPENING TO 1x1 SHEET METAL EXHAUST DUCT AND EXTEND TO HOOD 3 EXHAUST OPENING. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
13. PROVIDE INDEPENDENT ON/OFF SWITCH FOR EF-2 ABOVE MOP BASIN.

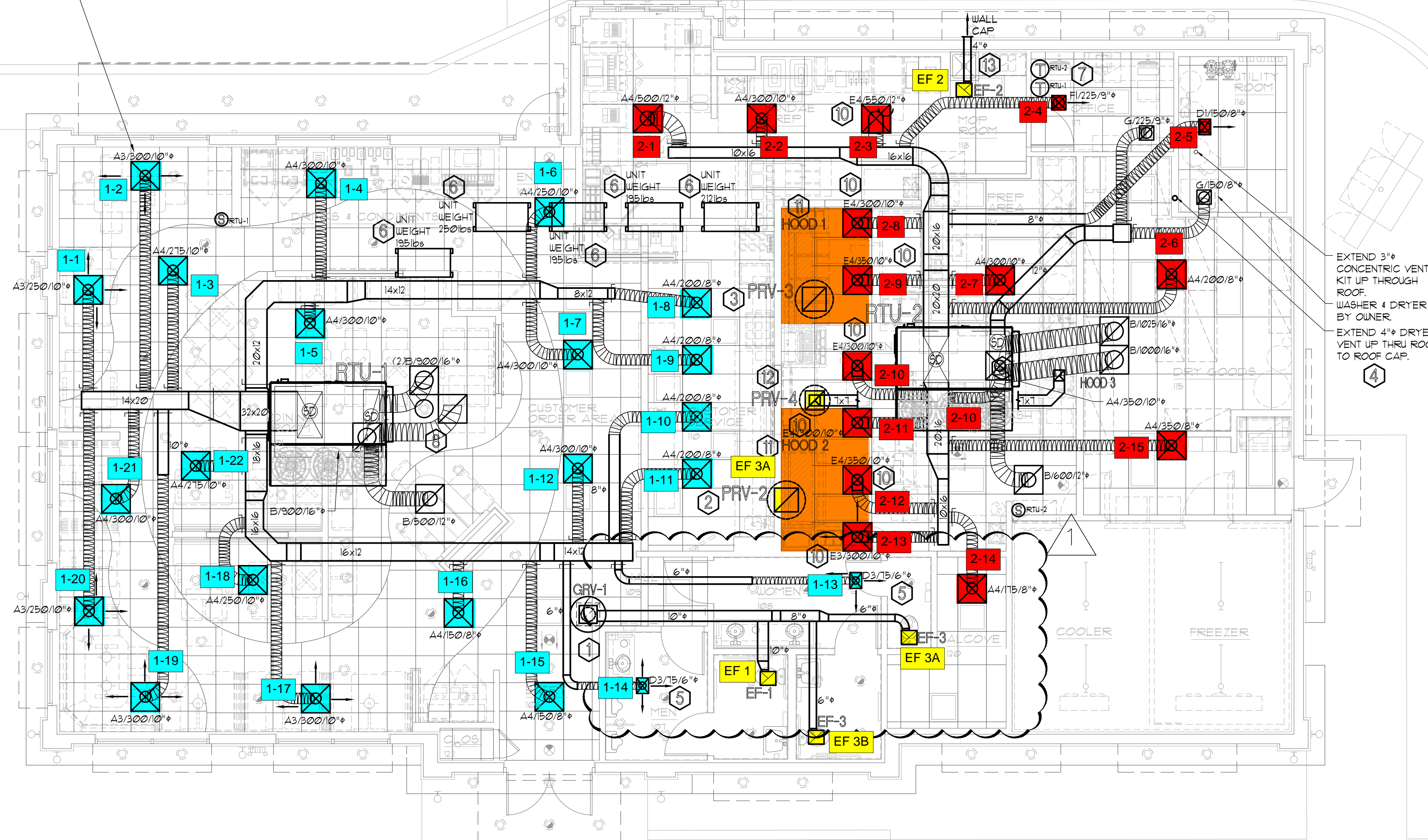
**HYAC GENERAL NOTES**

1. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. VERIFY ALL DIMENSIONS AND LOCATIONS PRIOR TO FABRICATION OR INSTALLATION. ALL RECTANGULAR/SQUARE DUCTWORK SHALL BE FINEST QUALITY GALVANIZED SHEET STEEL WITH 2" x 1/4" LB. DENSITY FOIL FACED EXTERNAL INSULATION WITH AN 'R'-VALUE OF 6.0. COORDINATE DUCTS WITH STRUCTURE PRIOR TO INSTALLATION. ALL DUCT SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA REQUIREMENTS.
2. ALL FLEXIBLE DUCT CONNECTIONS SHALL BE CLASS ONE TYPE. PROVIDE TAB COLLARS AT MAIN DUCT WITH MANUAL VOLUME DAMPER WITH LOCKING QUADRANT.
3. AN IONIZATION PRINCIPLE SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY & RETURN DUCTWORK OF ALL RTU'S AND PROVIDED BY LENNOX WITHIN UNIT. THE DETECTOR SHALL BE WIRED TO APPLICABLE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR. PROVIDE LED, AND HORN ALARM STATIONS (DUCT SMOKE DETECTOR'S REMOTE TEST SWITCH) LOCATED IN NORMALLY OCCUPIED AREA MOUNTED AT 48" AFF.
4. ALL ROOF AND WALL PENETRATIONS SHALL BE SEALED BY THE GENERAL CONTRACTOR.
5. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL PLANS PRIOR TO BID TO VERIFY EXISTING CLEARANCES FOR DUCT. COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO TRUSS ORDER AND AS STRUCTURE IS BEING CONSTRUCTED TO ASSURE ALL CLEARANCES FOR DUCTWORK ARE COORDINATED.
6. DEVIATION FROM MATERIALS METHODS, OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE APPROVED, IN WRITING, BY ENGINEER PRIOR TO SUBMISSION OF BID, ORDER, FABRICATION OR INSTALLATION.
7. ANY AND ALL QUESTIONS AS TO THE INTENT OF OR PROCEDURES SET FORTH IN THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF A BID. LACK OF KNOWLEDGE OR UNDERSTANDING OF THE PLANS SHALL NOT JUSTIFY ANY CLAIMS OR ADDITIONAL COMPENSATION.
8. INSTALLATION SHALL COMPLY WITH 2023 FBC-MECHANICAL 8th EDITION AND ALL APPLICABLE LAWS, CODES AND ORDINANCES.
9. THE HYAC CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, DUCT, PIPING, LOUVERS, DIFFUSERS, ETC. INCLUDING LOCATIONS AND CLEARANCES WITH ALL OTHER TRADES ON PROJECT IN PRE-CONSTRUCTION MEETING, PRIOR TO ANY ORDER, FABRICATION OR INSTALLATION.
10. COORDINATE WITH ELECTRICAL CONTRACTOR AND EQUIPMENT NATIONAL ACCOUNTS ON ALL ELECTRICAL DATA PRIOR TO ORDER.
11. SUPPLY DUCTWORK SHALL BE CONSTRUCTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" POSITIVE PRESSURE CLASSIFICATION.
12. RETURN AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS FOR A 1" NEGATIVE STATIC PRESSURE.
13. ALL EXHAUST FAN DISCHARGES AND PLUMBING VENTS SHALL BE A MINIMUM OF 10'-0" FROM FRESH-AIR INTAKES. COORDINATE WITH PLUMBING PLANS PRIOR TO INSTALLATION.
14. THE MECHANICAL CONTRACTOR SHALL BALANCE ALL SYSTEMS TO WITHIN TEN PERCENT OF DESIGN VALUES SPECIFIED HEREIN.
15. EXTEND CONDENSATE DRAIN LINES FROM RTU'S TO ROOF DRAINS AND/OR DOWNSPOUTS WHICH DRAIN TO STORM SEWER. REFER TO DETAILS ON SHEET M2.
16. HOOD EXHAUST DUCT SHALL BE MINIMUM 16 GAUGE GALVANIZED SHEET STEEL WITH ALL SEAMS WELDED LIQUID-TIGHT. PROVIDE 3M FIREMASTER DUCT WRAP FROM HOOD TO TOP OF ROOF CURB.
17. CONTROLS SHALL BE PER LENNOX NATIONAL ACCOUNTS. COORDINATE WITH LENNOX REPRESENTATIVE ON ALL NECESSARY CONTROLS PRIOR TO BID SUBMISSION.

| REVISIONS     | BY  |
|---------------|-----|
| 04.11.25      | BMD |
| OWNER CHANGES |     |

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REFER TO SHEET M2, DETAIL ONE FOR AIR DISTRIBUTION LEGEND SHOWING DIFFUSER TYPE AND HOW TO DETERMINE DUCT CONNECTION SIZE  
**ORDER WAITING**



EXTEND 3" CONCENTRIC VENT KIT UP THROUGH ROOF. WASHER & DRYER BY OWNER.  
 EXTEND 4" DRYER VENT UP THRU ROOF TO ROOF CAP.

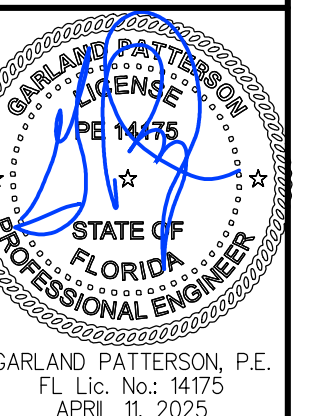
**BUILDING AIR BALANCE SCHEDULE**

| POSITIVE SOURCES:       | NEGATIVE SOURCES:         |
|-------------------------|---------------------------|
| RTU-1: 2,000 CFM        | EF-1: 220 CFM             |
| RTU-2: 2,000 CFM        | EF-2: 200 CFM             |
|                         | (2 EF-3 - 10 EA): 140 CFM |
|                         | FRV-2: 1500 CFM           |
|                         | FRV-3: 1500 CFM           |
|                         | FRV-4: 350 CFM            |
| <b>TOTAL:</b> 4,000 CFM | <b>TOTAL:</b> 3,760 CFM   |

RESULTING TOTAL AIR BALANCE: 240 CFM POSITIVE

**HYAC LEGEND**

|                         |  |
|-------------------------|--|
| CEILING SUPPLY DIFFUSER |  |
| CEILING RETURN          |  |
| CEILING EXHAUST FAN     |  |
| SENSOR                  |  |
| SMOKE DETECTOR          |  |
| VOLUME DAMPER           |  |
| NEW RIGID DUCT          |  |
| CLASS I FLEXIBLE DUCT   |  |



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 State License No. 34095-B  
 10000 W. US Highway 1, Suite 250  
 Palm Beach Gardens, FL 33418  
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New Free Standing  
**Carweb**  
 4860 Woolbright Rd.  
 Golf, Florida  
 Palm Beach County

Date: 02.14.25  
 Scale: AS NOTED  
 Project Mgr: SEH  
 Drawn: BMD  
 Job: 24-171  
 Sheet

### CONTROL NOTES

- RTU-1, RTU-2, 4 RTU-OA WILL SHUT-DOWN UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
- RTU-1, RTU-2, 4 RTU-OA WILL SHUT-DOWN ON ACTIVATION OF ANY DUCT DETECTOR.
- OCCUPIED MODE: FANS IN RTU-1 & RTU-2, EXHAUST FANS FRV-2, 3, 4 TO RUN CONTINUOUSLY. RESTROOM EXHAUST TO BE INTERLOCKED WITH RR LIGHTS.
- UNOCCUPIED MODE: FANS IN RTU-1 & RTU-2 TO RUN ONLY WHEN COOLING OR HEATING IS CALLED FOR.
- RTU-OA SHALL BE INTERLOCKED WITH RTU-1 AND RTU-2 VIA LENNOX CONTROLS TO ASSURE SIMULTANEOUS OPERATION. COORDINATE ALL CONTROLS REQUIREMENTS WITH LENNOX PRIOR TO BID SUBMISSION.

### LENNOX SETTINGS FOR CULVERS

#### Kitchen Unit

Parameter 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01+0 Pg. 92  
ECONOMIZER DIP SWITCHES A56 (EM1) NEED TO BE SET TO "GLOBAL" MODE. 1-ON 2-OFF (Pg. 5 FIG 8)  
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER (Pg. 52 FIG 33)  
BOTH THE THERMOSTAT AND THE HOOD FANS MUST BE TIED INTO TBI TERMINAL 849 FOR OCC/UNOCC CONTROL.  
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20+160 "55F" (KITCHEN IS USUALLY IN COOLING MODE)  
(PARAMETER 6.20 Pg. 93+ x CHARTS Pg. 103)

#### Dining Room Unit

PARAMETER 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01+0 Pg. 92  
ECONOMIZER DIP SWITCHES A56 (EM1) NEED TO BE SET TO ECONOMIZER TYPE PURCHASED/INSTALLED. 1+1 2+2  
(Pg. 5 FIGURE 8)  
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER (Pg. 52 FIGURE 33)  
THE THERMOSTAT MUST BE TIED INTO TBI TERMINAL 849 FOR OCC/UNOCC CONTROL.  
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20+142 "160F" (ROOM NEUTRAL)  
(PARAMETER 6.20 PAGE 93+ x CHARTS PAGE 103)

OTHER PARAMETERS THAT WE DIDN'T SET, BUT ARE PART OF START-UP:

- ROOM SET POINT
- REMOTE SENSOR OPERATION
- TEMP DEADBANDS

CHECK FOR CORRECT OPERATION AND WIRING OF ALL SENSORS.

NOTE: VERIFY ALL COLORS WITH OWNER AND ARCHITECT

### NATIONAL ACCOUNT PROGRAM

#### 1. CAPTIVEAIRE - ROOFTOP HVAC EQUIPMENT

National Accounts Sales: (866) 784-6900

National Account Technical Support: support@captivaire.com

#### 2. ACCRUREX/ GREENHECK FAN CORPORATION - KITCHEN HOODS, EXHAUST FANS, ROOF CURBS, ANSUL SYSTEMS, AND ACCESSORIES

CONTACT Patrick Smith @ 1-612-670-2938 OR patrick.smith@accurex.com

#### 3. CARNES COMPANY - DIFFUSERS AND GRILLES

National Accounts Rep: Brian Baker @ (608) 845-6411 bbaker@carnes.com

National Accounts Sales: Chris Stratton @ (608) 845-6411 cstratton@carnes.com

#### RTU - 1

**CAPTIVEAIRE CAS-HVAC3-E.602-24-20T** COMBINATION ELECTRIC HEATING AND ELECTRIC COOLING ROOFTOP UNIT w/HUMIDITROL  
**259,900 NET. COOLING CAPACITY**, 18.2 EER. 208 / 230 VOLT, 3 PHASE, 172.6A MCA & 175A MOCP. ELECTRIC 60 KW HEATER. UNIT WEIGHT IS 2,671lbs.  
**BLOWER MOTOR SET FOR NOMINAL 5,200 CFM** & FRESH AIR INTAKE DAMPER SET FOR MINIMUM **2,000 CFM** PROVIDE MANUFACTURER'S 18" HIGH ROOF CURB, TWO STAGE CONTROL, DUCT DISCHARGE CONTROL, IN-DUCT SMOKE DETECTORS, BELT TENSIONER WITH SPARE BELT, MERV 4 FILTERS, LOOSE SHIPPED CONDENSATE TRAP AND HONEYWELL OR EQUAL T7350 NIGHT SET BACK THERMOSTAT AND DISCONNECT SWITCH. MOTORIZED OUTSIDE AIR INTAKE DAMPER. NO ECONOMIZER.  
**NO SUBSTITUTIONS.** PROVIDE BOTTOM TAP FOR GAS CONNECTION.

#### RTU - 2

**CAPTIVEAIRE CAS-HVAC3-E.452-24-20T** COMBINATION ELECTRIC HEATING AND ELECTRIC COOLING ROOFTOP UNIT w/HUMIDITROL  
**256,500 NET. COOLING CAPACITY**, 18.2 EER. 208 / 230 VOLT, 3 PHASE, 130A MCA & 150A MOCP. ELECTRIC 45 KW HEATER. UNIT WEIGHT IS 2,666lbs.  
**BLOWER MOTOR SET FOR NOMINAL 5,000 CFM** & FRESH AIR INTAKE DAMPER SET FOR MINIMUM **2,000 CFM** PROVIDE MANUFACTURER'S 18" HIGH ROOF CURB, TWO STAGE CONTROL, DUCT DISCHARGE CONTROL, IN-DUCT SMOKE DETECTORS, BELT TENSIONER WITH SPARE BELT, MERV 4 FILTERS, LOOSE SHIPPED CONDENSATE TRAP AND HONEYWELL OR EQUAL T7350 NIGHT SET BACK THERMOSTAT AND DISCONNECT SWITCH. MOTORIZED OUTSIDE AIR INTAKE DAMPER. NO ECONOMIZER.  
**NO SUBSTITUTIONS.** PROVIDE BOTTOM TAP FOR GAS CONNECTION.

#### GRV - 1

**GREENHECK MODEL FGR** GRAVITY RELIEF VENTILATOR WITH INTEGRAL FACTORY BIRDSCREEN. PROVIDE FACTORY CURB, MINIMUM 12" HIGH, 12"x12" THROAT WITH 12x12 PLENUM DUCT DOWN FOR EXHAUST DUCT CONNECTION. **NO SUBSTITUTIONS.**

#### FRV - 2

(ITEM #49)

**ACCUREX MODEL XCUE-140-VG KITCHEN FAN** UPBLAST EXHAUST FAN W/CLEAN-OUT PORT, MOUNTED HINGE BASE AND ROOF CURB WITH CURB EXTENSION. **1500 CFM AT 1.8" SP, 1 HP MOTOR**, 115 VOLTS SINGLE PHASE FAN TO RUN CONTINUOUSLY DURING OCCUPIED MODE. **NO SUBSTITUTIONS.**

#### FRV - 3

(ITEM #59)

**ACCUREX MODEL XCUE-140-VG KITCHEN FAN** UPBLAST EXHAUST FAN W/CLEAN-OUT PORT, MOUNTED HINGE BASE AND ROOF CURB WITH CURB EXTENSION. **1500 CFM AT 1.0" SP, 1 HP MOTOR**, 115 VOLTS SINGLE PHASE FAN TO RUN CONTINUOUSLY DURING OCCUPIED MODE. **NO SUBSTITUTIONS.**

#### FRV - 4

(ITEM #25)

**ACCUREX MODEL XRED-090-D** CONDENSATE DOWNBLAST EXHAUST FAN WITH ROOF CURB AND BACKDRAFT DAMPER. **350 CFM AT 6" SP, .0667 HP MOTOR**, 115 VOLTS, SINGLE PHASE. FAN TO RUN w/STARTING OF DISHWASHER & FOR ONE MINUTE AFTER THE CYCLE IS COMPLETE. **NO SUBSTITUTIONS.**

#### EF - 1

**ACCUREX MODEL XCR-A200** CEILING EXHAUST FAN, BACK DRAFT DAMPER. EXTEND EXHAUST DUCT TO GRAVITY RELIEF VENTILATOR. **220 CFM AT .125" SP**, 115 VOLT, SINGLE PHASE. FAN TO BE INTERLOCKED WITH RESTROOM LIGHTS. NO SUBSTITUTIONS.

#### EF - 2

**ACCUREX MODEL XCR-B50** CEILING EXHAUST FAN, BACK DRAFT DAMPER. EXTEND EXHAUST DUCT TO GRAVITY RELIEF VENTILATOR, WALL CAP FOR MOP BASIN FAN. **50 CFM AT .125" SP**, 115 VOLT, SINGLE PHASE. INDEPENDENT SWITCH FOR FAN OVER MOP BASIN. NO SUBSTITUTIONS.

#### EF - 3

**ACCUREX MODEL XCR-B70** CEILING EXHAUST FAN, BACK DRAFT DAMPER. EXTEND EXHAUST DUCT TO GRAVITY RELIEF VENTILATOR. **70 CFM AT .100" SP**, 115 VOLT, SINGLE PHASE. FAN TO BE INTERLOCKED WITH RESTROOM LIGHTS. NO SUBSTITUTIONS.

#### ITEM #49

(HOOD 2)

**GRIDDLE EXHAUST HOOD - ACCUREX MODEL XGEP-5.33S** 64" X 26" X 36" HIGH, LOW PROXIMITY w/FLUE BYPASS. **1500 CFM AT 1.918" SP, 12" X 12" DUCT COLLAR**. INCLUDES THE 3" INTEGRAL AIR SPACE ON BACK OF HOOD & AN ADDITIONAL 3" REAR FILLER PANEL. STAINLESS STEEL WHERE EXPOSED, w/ **GREASE GRABBER** TWO-STAGE FILTRATION SYSTEM. 26" HIGH ENCLOSURE PANELS, FRONT, LEFT AND RIGHT SIDES. GREASE TROUGH SHALL BE PITCHED TO THE LEFT END OF THE HOOD. APPROVALS SHALL INCLUDE UL LISTING AND THE NSF SEAL. THE VENTILATOR SHALL CONFORM TO THE REQUIREMENTS OF **NFPA-96** & TO ALL PREVAILING LOCAL CODE REQUIREMENTS. **NO SUBSTITUTIONS.**

#### ITEM #59

(HOOD 1)

**FRYER EXHAUST HOOD - ACCUREX MODEL XXEP-FB-6.92-S** 83" X 26" X 36" HIGH, LOW PROXIMITY w/FLUE BYPASS. **1500 CFM AT .518" SP, 12" X 12" DUCT COLLAR**. INCLUDES THE 3" INTEGRAL AIR SPACE ON BACK OF HOOD & AN ADDITIONAL 3" REAR FILLER PANEL. STAINLESS STEEL WHERE EXPOSED, w/ **X-TRACTOR STAINLESS STEEL FILTERS** TWO-STAGE FILTRATION SYSTEM. 26" HIGH ENCLOSURE PANELS, FRONT, LEFT AND RIGHT SIDES. GREASE TROUGH SHALL BE PITCHED TO THE LEFT END OF THE HOOD. APPROVALS SHALL INCLUDE UL LISTING AND THE NSF SEAL. THE VENTILATOR SHALL CONFORM TO THE REQUIREMENTS OF **NFPA-96** & TO ALL PREVAILING LOCAL CODE REQUIREMENTS. **NO SUBSTITUTIONS.**

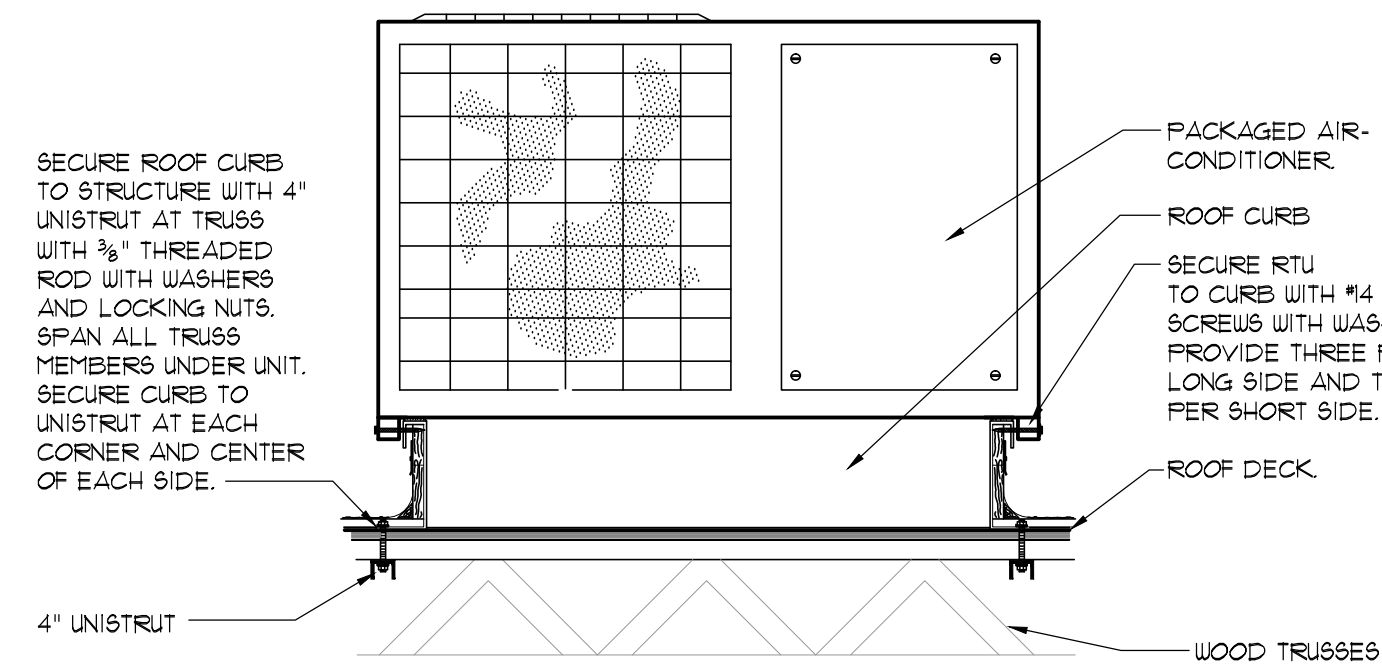
#### ITEM #25A

(HOOD 3)

**DISHWASHER CONDENSATE HOOD - ACCUREX MODEL XD3-3.5-S** CONDENSATE HOOD w/BAFFLE, 42" X 42" X 24" HIGH, STAINLESS STEEL WHERE EXPOSED. **350 CFM AT .127 SP, 7 X 7 DUCT COLLAR**. COLLAR. APPROVALS SHALL INCLUDE THE NSF SEAL. (UL LABEL NOT REQUIRED FOR NON-GREASE APPLICATION). THE VENTILATOR SHALL CONFORM TO THE REQUIREMENTS OF **NFPA-96** & TO ALL PREVAILING LOCAL CODE REQUIREMENTS. **NO SUBSTITUTIONS.**

### MECHANICAL EQUIPMENT SPECIFICATIONS

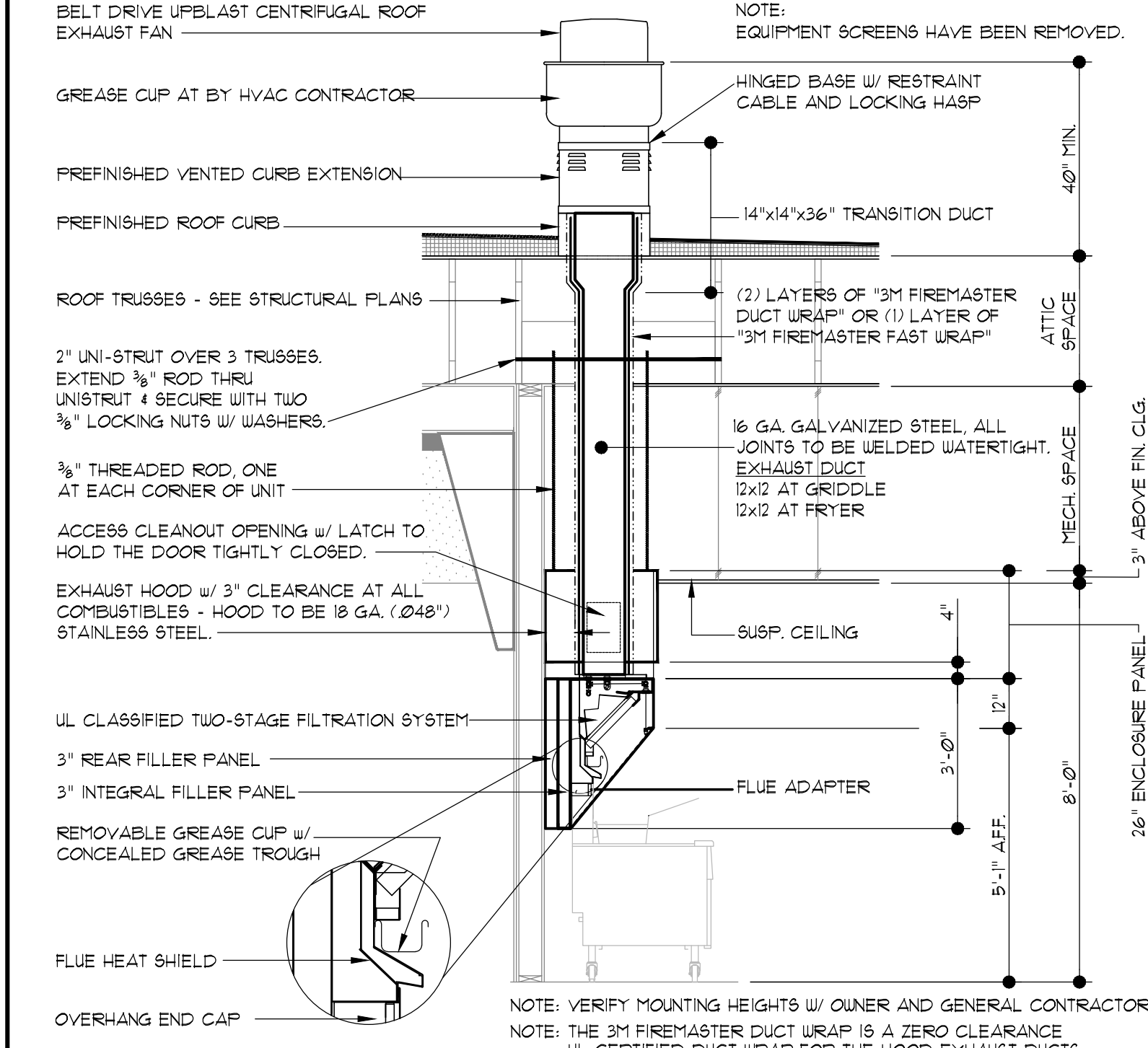
SCALE: NONE



- NOTES:
- SET PACKAGED AIR CONDITIONER ON CURB AND SECURE AS INDICATED ABOVE WITH AT LEAST THREE SCREWS PER LONG SIDE OF UNIT AND TWO PER SHORT SIDE OF UNIT. CURB SHALL BE MINIMUM 18" HIGH SO RTU IS AT LEAST 8" ABOVE FINISHED ROOF SURFACE WITH NO ROOFING BENEATH CURB PER FBC-M 151010
  - THIS DETAIL IS PROVIDED FOR FLORIDA HURRICANE 150 MPH TIE-DOWN COMPLIANCE.
  - PROVIDE WASHERS BETWEEN SCREWS/BOLTS AND STRAPS TYPICAL.
  - ALL STRUCTURAL ELEMENTS BY GENERAL CONTRACTOR. SECURING OF CURB TO STRUCTURE SHALL BE BY GENERAL CONTRACTOR.

### RTU TIE-DOWN DETAIL

SCALE: NONE



### KITCHEN HOOD DETAIL

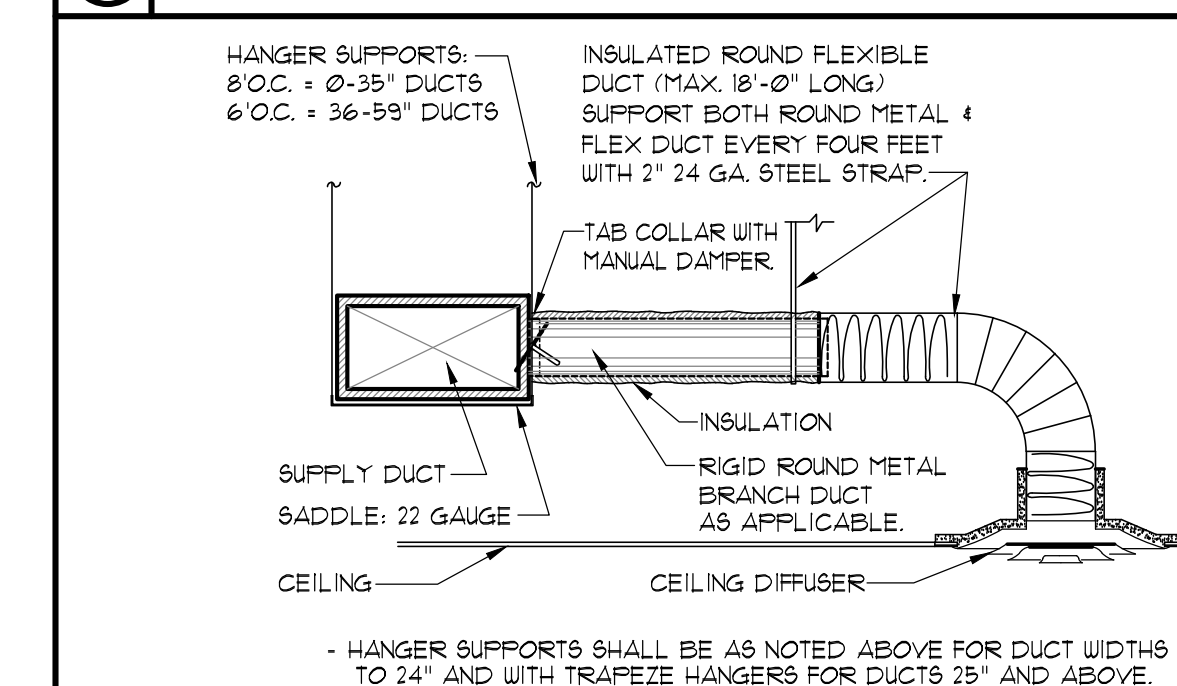
SCALE: NONE

| MARK | MANUFACTURER | MODEL NUMBER | SIZE    | CFM      | NECK     | LOCATION | MATERIAL | NOTES:     |
|------|--------------|--------------|---------|----------|----------|----------|----------|------------|
| A    | FRICE        | ASCD         | 24 X 24 | SEE PLAN | SEE PLAN | CEILING  | ALUMINUM | 12         |
| B    | CARNES       | RAFFP        | 24 X 24 | SEE PLAN | 24 X 24  | CEILING  | ALUMINUM | 12, 18     |
| C    | FRICE        | ACVD         | 10 X 6  | SEE PLAN | 10 X 6   | CEILING  | ALUMINUM | 12, 4.5, 6 |
| D    | FRICE        | ACVD         | 12 X 8  | SEE PLAN | 12 X 8   | CEILING  | ALUMINUM | 12, 4.5    |
| E    | CARNES       | 8FRB         | 24 X 24 | SEE PLAN | PER PLAN | CEILING  | STEEL    | 12, 9      |
| F    | FRICE        | 630          | 12 X 12 | SEE PLAN | 12 X 12  | CEILING  | ALUMINUM | 12         |

NOTES:

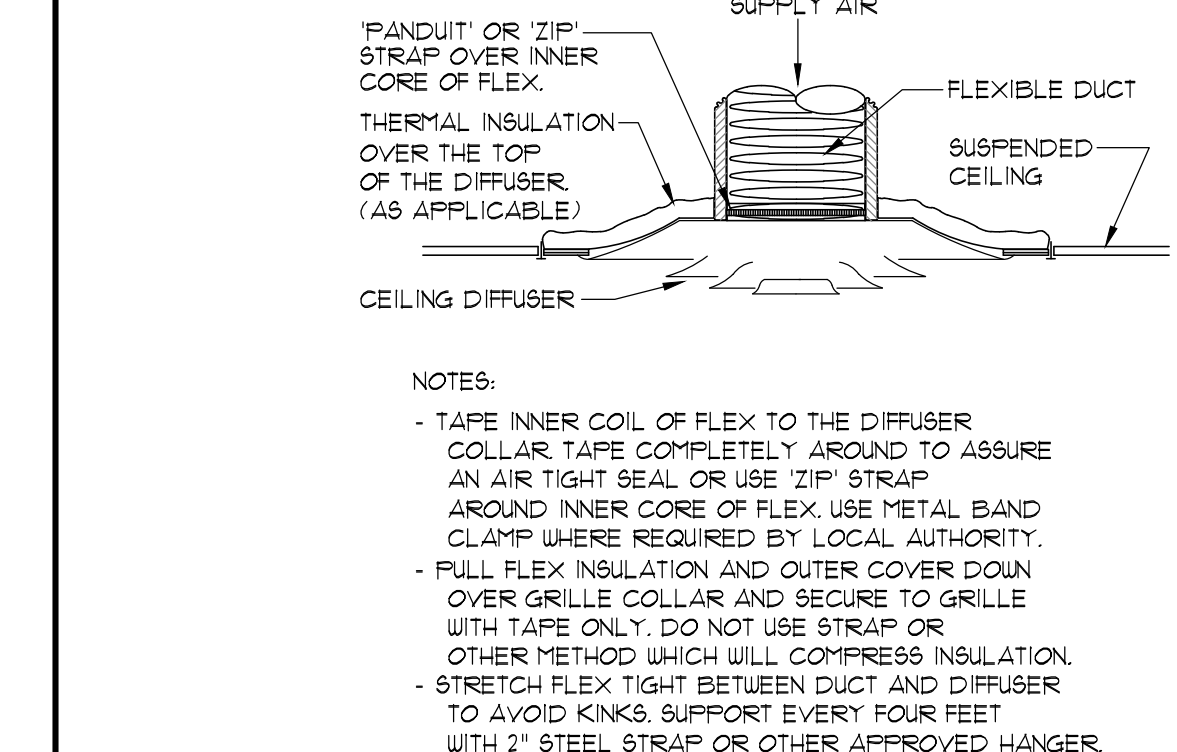
- PROVIDE MANUAL VOLUME DAMPER AT MAIN TRUNK FOR BALANCING.
- GRILLE FACE FINISH SHALL BE OFF-WHITE.
- GRILLE FACE SHALL BE FIXED BLADE ON 1/2" SPACINGS WITH FILTER BACK.
- PROVIDE FIRE-RAB R-6 INSULATED GRILLE BOX WITH TAB COLLAR.
- GRILLE FACE SHALL BE ADJUSTABLE CURVED BLADE. NO STAMPED GRILLES ACCEPTED.
- PROVIDE SURFACE MOUNT FRAME AND INSTALL IN GYP CEILING.
- FLAT BLACK FINISH.
- GRILLE FACE SHALL BE 1/2" X 1/2" ALUMINUM CUBE CORE.
- GRILLE SHALL BE PERFORATED FACE LAY-IN TYPE, NON-DIRECTIONAL.

### AIR DISTRIBUTION SCHEDULE



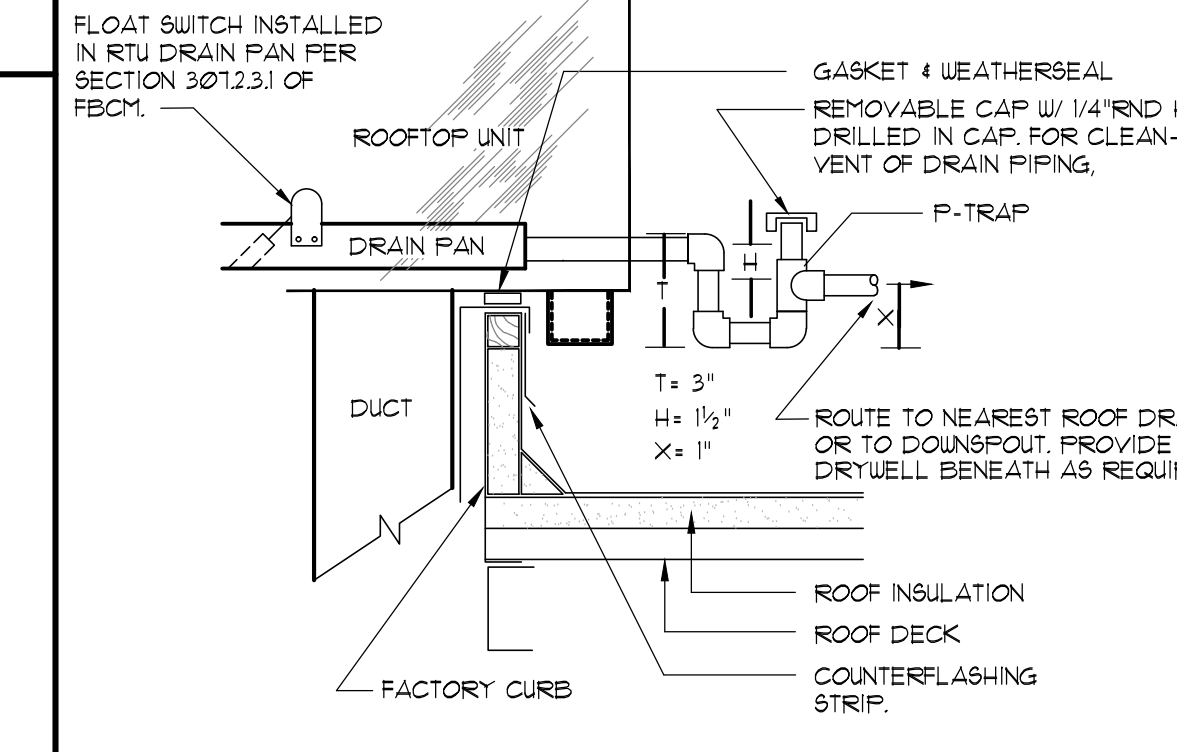
### CEILING DIFFUSER RUN-OUT DETAIL

SCALE: NONE



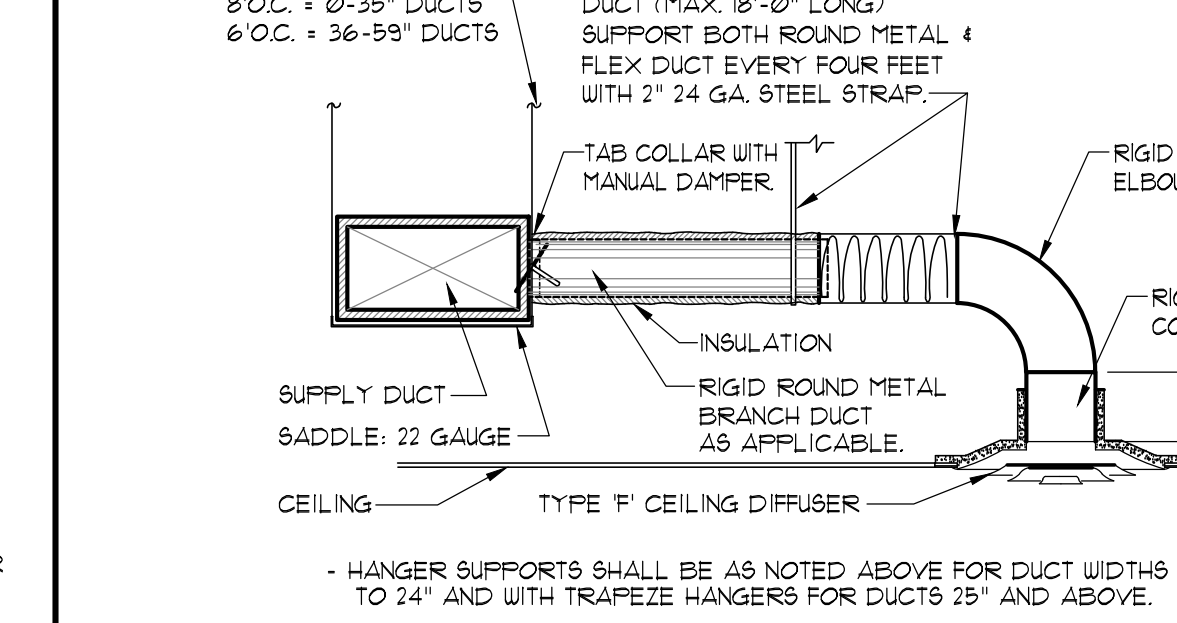
### CEILING DIFFUSER DETAIL

SCALE: NONE



### RTU CONDENSATE DETAIL

SCALE: NONE



### TYPE 'E' CEILING DIFFUSER RUN-OUT DETAIL

SCALE: NONE

| REVISIONS | BY |
|-----------|----|
|           |    |
|           |    |
|           |    |
|           |    |

OLIVER ARCHITECTS  
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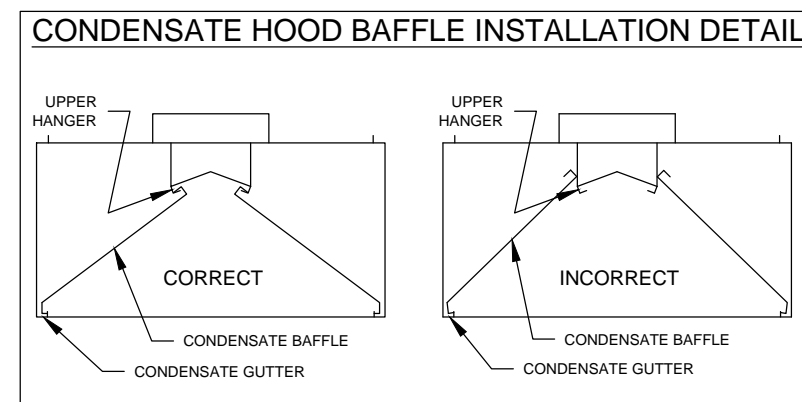
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STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 GARLAND PATTERSON, P.E.  
 FL Lic. No. 1475  
 FEB. 14, 2025

MDCI FLORIDA, INC.  
 4500 South U.S. 1  
 Safety Harbor, Florida 34685  
 Engineering Business No. 9704  
 Safety Harbor, Florida 34685  
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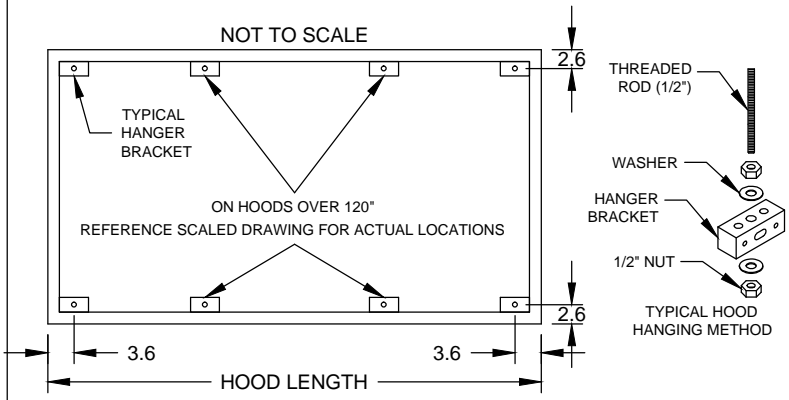
New Free Standing  
**Castro's**  
 4860 Woolbright Rd.  
 Golf, Florida  
 Palm Beach County

|              |          |
|--------------|----------|
| Date:        | 02.14.25 |
| Scale:       | AS NOTED |
| Project Mgr: | SEH      |
| Drawn:       | BMD      |
| Job:         | 24-171   |
| Sheet        | M2       |

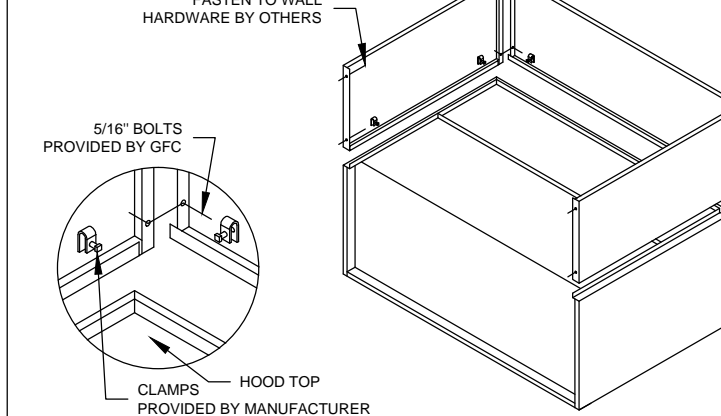


NOTES:  
1. THE CONDENSATE BAFFLES MUST HOOK ONTO THE UPPER HANGER AND REST IN THE CONDENSATE GUTTER FOR PROPER OPERATION.

**HOOD HANGER BRACKET DETAIL**



**ENCLOSURE PANEL INSTALLATION DETAIL**

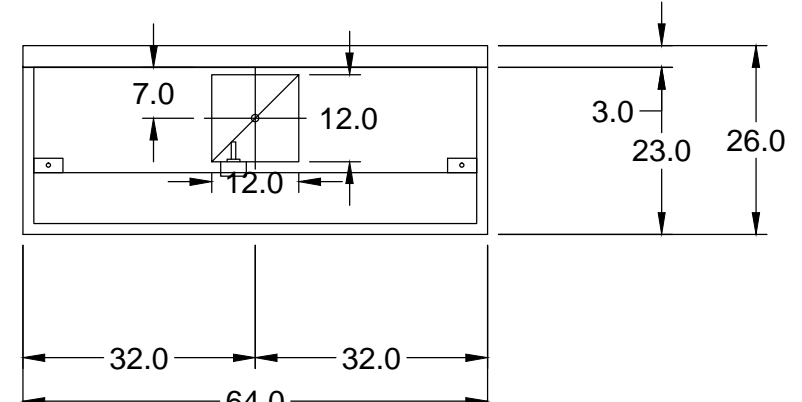
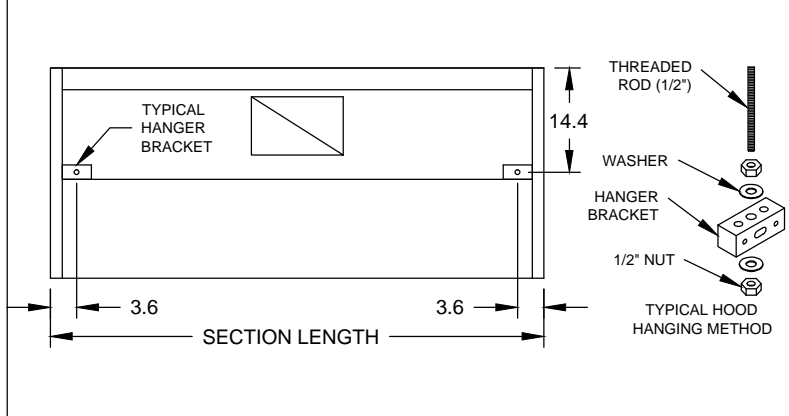


**HOOD HANGING HEIGHT FOR FIRE SYSTEMS**

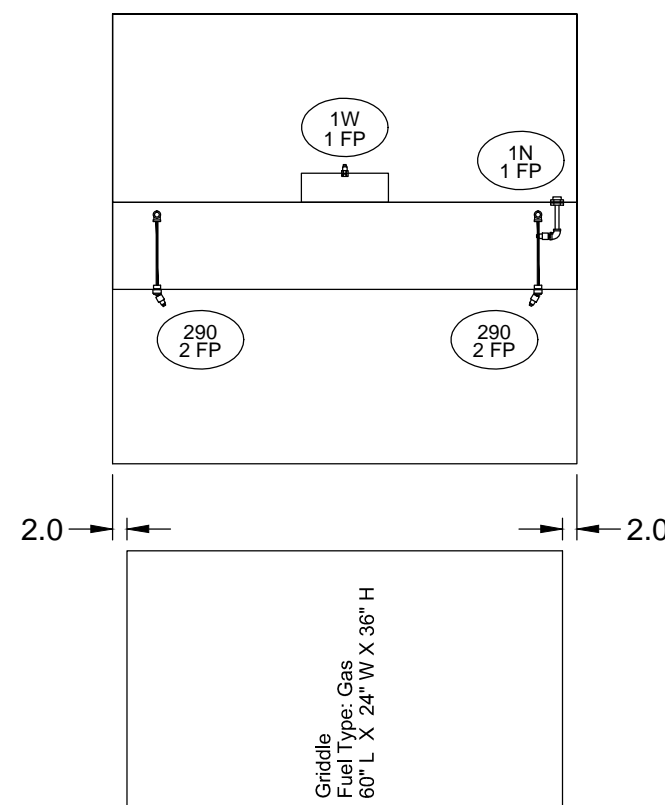
VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

- RECOMMENDED HANGING HEIGHT = 72" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.
- OTHER HANGING HEIGHT = \_\_\_\_\_" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

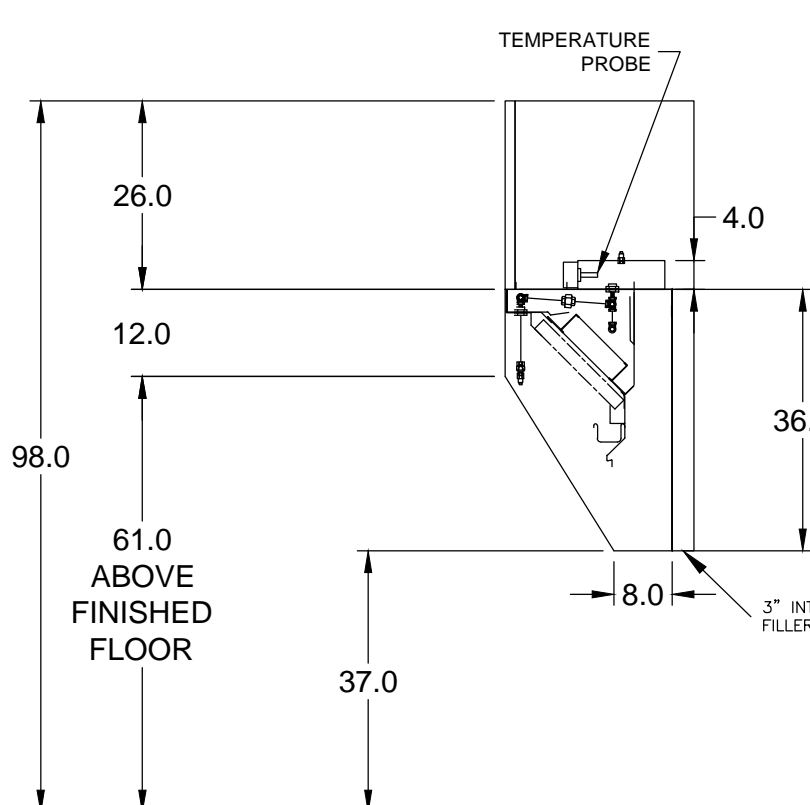
**HOOD HANGER BRACKET DETAIL FOR BACKSHELF HOODS**



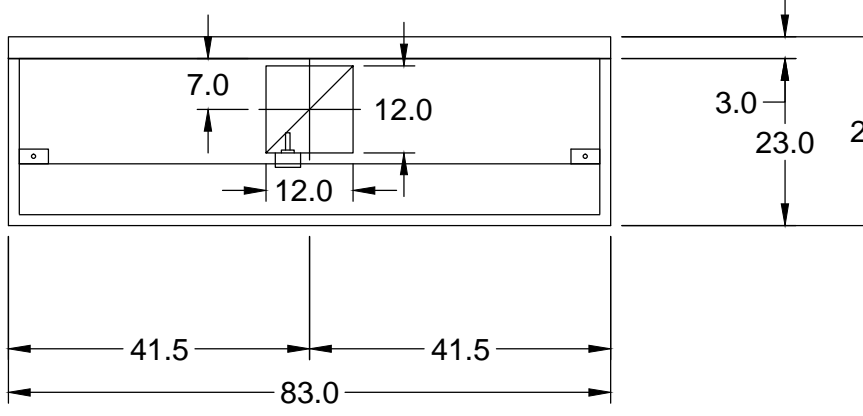
MARK: GRILL HOOD - SECTION 1 PLAN VIEW



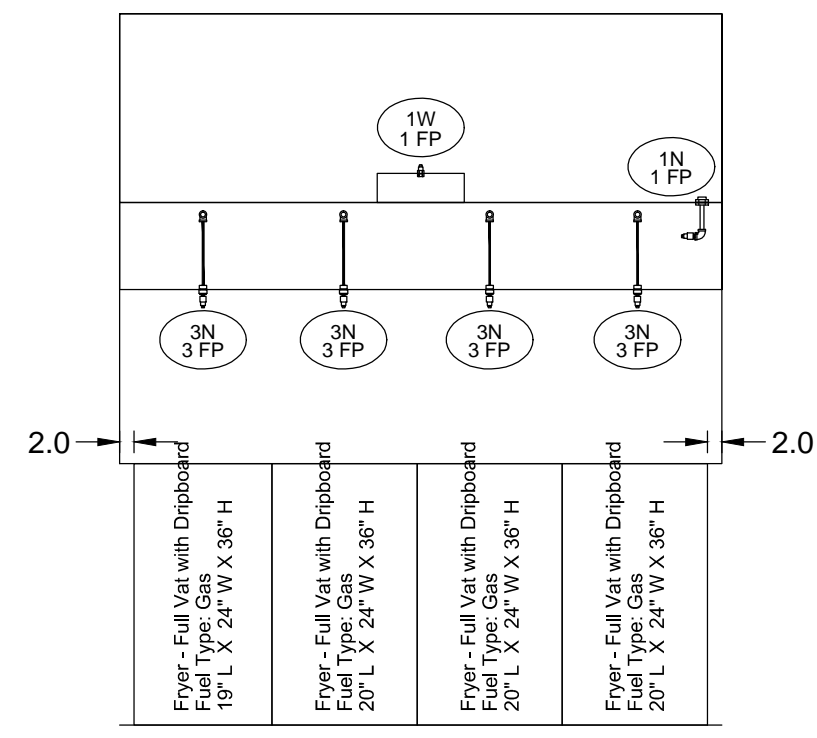
MARK: GRILL HOOD - SECTION 1 ELEVATION VIEW



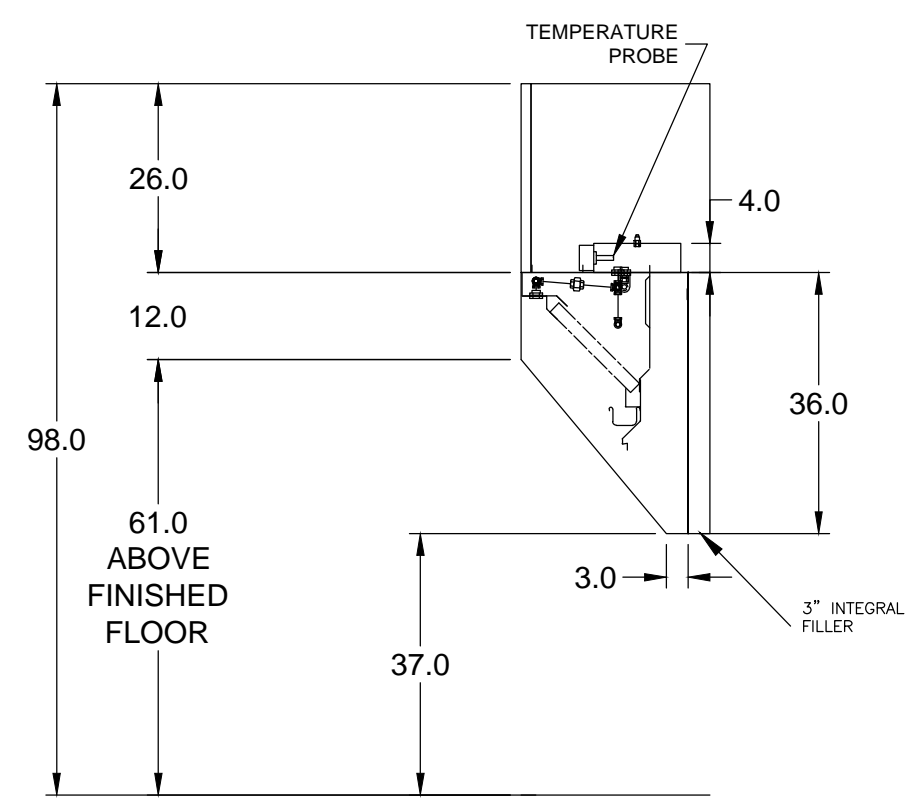
MARK: GRILL HOOD SECTION VIEW



MARK: FRYER HOOD - SECTION 1 PLAN VIEW



MARK: FRYER HOOD - SECTION 1 ELEVATION VIEW



MARK: FRYER HOOD SECTION VIEW

NOTE: COOKING EQUIPMENT SHALL BE INSTALLED AND VENTED IN ACCORDANCE WITH FBCM 4 NFPA 96.

| EQUIPMENT SCHEDULE   |   |                        |             |              |                     |                   |               |                   |  |  |
|--|---|------------------------|-------------|--------------|---------------------|-------------------|---------------|-------------------|--|--|
| TYPE 2 KITCHEN HOOD  |   |                        |             |              |                     | MARK: ITEM # 25   |               |                   |  |  |
| HOOD NO.   | ACCUREX MODEL STYLE / CONFIGURATION     | SECTION LENGTH         | WIDTH       | HEIGHT       | GREASE CUP OR DRAIN | HOOD TEMP. RATING | TOTAL WEIGHT  | SECTION LOCATION  |  |  |
| 3  | XD3-3-S CONDENSATE HOOD - DOUBLE BAFFLE | 42.0 IN.               | 42 IN.      | 24 IN.       | RIGHT               | NA                | 224.0 LBS.    | NA                |  |  |
| EXHAUST PLENUM COLLARS   |   |                        |             |              |                     |                   |               |                   |  |  |
| HOOD SECTION #   | COLLAR #                                | DISTANCE TO END (IN.)  | WIDTH (IN.) | LENGTH (IN.) | DIAMETER (IN.)      | VOLUME (CFM)      | S.P. (IN. WC) | VELOCITY (FT/MIN) |  |  |
| 1 / 1  |   | 21                     | 7           | 7            | NA                  | 350               | 0.127         | 1029              |  |  |
| TOTAL EXHAUST CFM - SECTION 1  |   | 350.0 = 100.0 CFM / FT |             |              |                     |                   |               |                   |  |  |
| OPTIONS AND ACCESSORIES  |   |                        |             |              |                     |                   |               |                   |  |  |
| 300 SERIES STAINLESS STEEL 100% CONSTRUCTION FACTORY MOUNTED EXHAUST COLLAR(S) |   |                        |             |              |                     |                   |               |                   |  |  |

**ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC**

**CONTROL PANEL**

- STAINLESS STEEL ENCLOSURE
- AGENT STORAGE TANK
- EXPELLANT GAS CARTRIDGE
- ANSUL AUTOMAN RELEASE
- REGULATOR
- KINCROFIT FOR WIRING MICROSWITCH

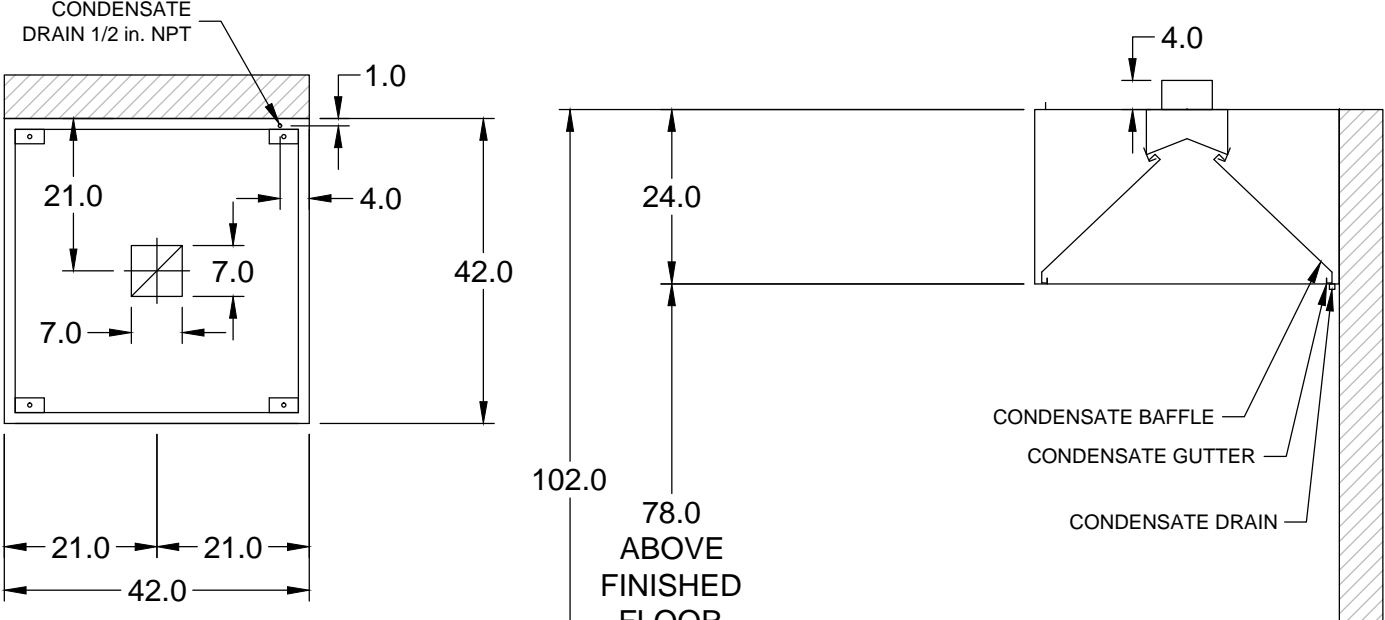
**WIRING DIAGRAMS**  
WD/PT MICRO SWITCH  
DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXHAUST COLLAR(S) CONNECTIONS. LOCAL CODES AND EQUIPMENT MANUFACTURER'S INSTRUCTIONS SHALL BE OBSERVED. VERIFY WITH LOCAL CODES AND EQUIPMENT MANUFACTURER'S INSTRUCTIONS BEFORE INSTALLATION.

**CONNECTION TO BUILDINGS ALARM**

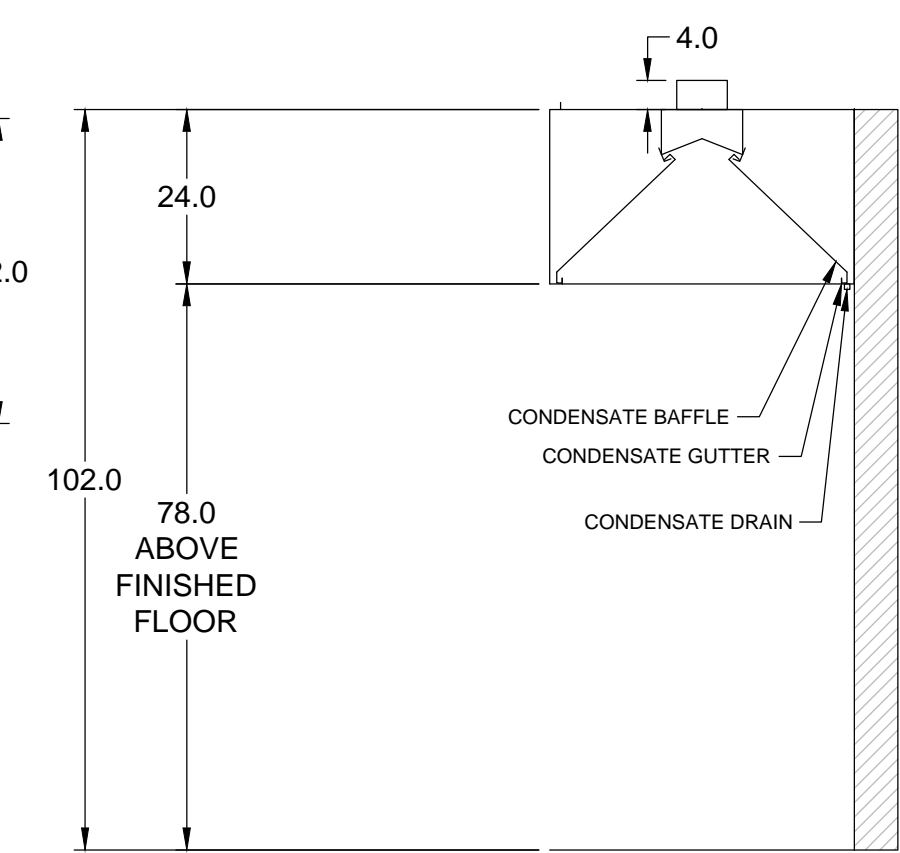
**CONNECTION TO COOKING EQUIPMENT SHUT DOWN**

**CONNECTION TO FAN SHUT DOWN**

**NOTES:**  
Wet chemical fire protection system to be Ansul R-102, designed in compliance with UL 300 requirements.  
-Verification of all cooking equipment make, model and location required for all fire protection systems.  
-All fire system piping is standard to the right end of the hood unless a wall is located on the right end.  
-Ansul Automan Release to be located within 60" of hood.  
The basic fire system will include the following:  
-Gas shut-off valve, if required, to be supplied by Manufacturer (up to 2" diameter as standard), and installed by a licensed plumber.  
-Micro switch to be supplied by Manufacturer for connection to, but not limited to, building alarm system(s), exhaust and supply fans and electrical power shut down. Field wiring and connections to be performed by a licensed electrician.  
The basic fire system does NOT include the following:  
-Full dump test other than what is specified per the installation manual, or to satisfy a state or local code. Permit and testing fees are not included unless noted under the equipment schedule for the fire system.  
-More than two trips to the jobsite or special transportation, or overnight lodging requirements in remote areas. Normal travel distance is first 50 mi. (80.5 km) from office.  
-Special classes or additional labor for access to security sensitive areas.  
-Installation of gas shut-off valve.  
-Special drawings required to satisfy state or local code. Plan examination fees, PE or FS Approval Stamp.  
-Union labor, Government labor, or Prevailing wages required for final field hook-up.  
-Any and all electrical components/connections required to shut down fans, shut off device for electric cooking equipment (shunt trip breaker), or activate an alarm system, etc.  
-Any dismantling or reassembly required to gain access to the fire suppression piping located on the top of the hood.  
-Rough-in hidden conduit for remote pull station or gas valve (flush mounted pull station). Installation of more than (1) remote pull station or distance greater than 20 ft (6.1M).  
-Parts or labor required to correct piping due to cooking equipment changes or deviation from plans. OR Any charges for missing or additional parts other than those indicated on the Fire Suppression Detail.



MARK: ITEM # 25 - SECTION 1 PLAN VIEW



MARK: ITEM # 25 SECTION VIEW

EXTEND TO NEAREST FLOOR RECEPTOR. SEE PLUMBING DWGS.

NOTE: ALL HOODS SHALL HAVE 3" WALL STANDOFF PER DETAIL ON SHEET M2.

NOTE: THE DESIGN, INSTALLATION, OPERATION, INSPECTION, AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COMMERCIAL COOKING EQUIPMENT SHALL COMPLY WITH CHAPTER FFGC 15-011 AND NFPA 96, STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. KITCHEN HOOD PLANS, COMPLIANT WITH THE ABOVE, SHALL BE PERMITTED SEPARATELY.

| EQUIPMENT SCHEDULE   |  |                          |   |              |                          |                   |               |                   |  |  |
|--|--|--------------------------|---|--------------|--------------------------|-------------------|---------------|-------------------|--|--|
| TYPE 1 KITCHEN HOOD (HOOD #2)  |  |                          |   |              |                          | MARK: GRILL HOOD  |               |                   |  |  |
| HOOD NO.   | ACCUREX MODEL STYLE / CONFIGURATION                | SECTION LENGTH           | WIDTH   | HEIGHT       | GREASE CUP OR DRAIN      | HOOD TEMP. RATING | TOTAL WEIGHT  | SECTION LOCATION  |  |  |
| 2  | XGER-3-33-S SINGLE WALL EXHAUST ONLY LOW PROXIMITY | 64 IN.                   | TOP 23 IN. FRONT 12 IN. BOT 8 IN. BACK 36 IN. | 24 IN.       | RIGHT                    | 600 DEG F         | 136.0 LBS.    | SINGLE            |  |  |
| EXHAUST PLENUM COLLARS   |  |                          |   |              |                          |                   |               |                   |  |  |
| HOOD SECTION #   | COLLAR #   | DISTANCE TO END (IN.)    | WIDTH (IN.)                                   | LENGTH (IN.) | DIAMETER (IN.)           | VOLUME (CFM)      | S.P. (IN. WC) | VELOCITY (FT/MIN) |  |  |
| 1 / 1  |  | 32                       | 12  | 12           | NA                       | 1500              | 0.1918        | 1500              |  |  |
| TOTAL EXHAUST CFM - SECTION 1  |  | 1500 = 281 CFM / FT      |   |              |                          |                   |               |                   |  |  |
| OPTIONS AND ACCESSORIES  |  |                          |   |              |                          |                   |               |                   |  |  |
| 430 STAINLESS STEEL WHERE EXPOSED<br>UL 710 LISTED W/OUT EXHAUST FIRE DAMPER - UL #R25625<br>BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE<br>26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED<br>FACTORY MOUNTED EXHAUST COLLAR(S)<br>THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM<br>INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY<br>STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH<br>EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE |  |                          |   |              |                          |                   |               |                   |  |  |
| SPECIAL DESIGN REQUESTS  |  |                          |   |              |                          |                   |               |                   |  |  |
| SDR #K1100145 - FLUE BYPASS HOOD   |  |                          |   |              |                          |                   |               |                   |  |  |
| FIRE SUPPRESSION SYSTEM  |  |                          |   |              |                          |                   |               |                   |  |  |
| MANUFACTURER / MODEL SUPPRESSANT TYPE  |  | FLOW POINTS              | SUPPLY LINE                                   | DETECTION    | MOUNTING                 |                   |               |                   |  |  |
| ANSUL R-102 WET CHEMICAL   |  | 6 UTILIZED 11 AVAILABLE  | CONTINUOUS                                    | FUSIBLE LINK | RIGHT END REMOTE MOUNTED |                   |               |                   |  |  |
| FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)<br>CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED<br>SUPPRESSION AGENT - INCLUDED - 3 GAL. - (1) 3 TANK(S)<br>GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2 IN. (ANSUL) - PART# 55610<br>REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS<br>FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED   |  |                          |   |              |                          |                   |               |                   |  |  |
| FIRE SYSTEM PROTECTED HOOD(S) (UL-300) (MARK NAME / SECTION#)  |  |                          |   |              |                          |                   |               |                   |  |  |
| GRILL HOOD SECTION 1 - (LENGTH 64.0 IN.) - LOW PROXIMITY HOOD - GREASE GRABBER FILTRATION SYSTEM   |  |                          |   |              |                          |                   |               |                   |  |  |
| TYPE 1 KITCHEN HOOD (HOOD #1)  |  |                          |   |              |                          |                   |               |                   |  |  |
| MARK: FRYER HOOD   |  |                          |   |              |                          |                   |               |                   |  |  |
| HOOD NO.   | ACCUREX MODEL STYLE / CONFIGURATION                | SECTION LENGTH           | WIDTH   | HEIGHT       | GREASE CUP OR DRAIN      | HOOD TEMP. RATING | TOTAL WEIGHT  | SECTION LOCATION  |  |  |
| 1  | XREP-4-93-S SINGLE WALL EXHAUST ONLY LOW PROXIMITY | 83 IN.                   | TOP 23 IN. FRONT 12 IN. BOT 3 IN. BACK 36 IN. | 24 IN.       | RIGHT                    | 600 DEG F         | 169.0 LBS.    | SINGLE            |  |  |
| EXHAUST PLENUM COLLARS   |  |                          |   |              |                          |                   |               |                   |  |  |
| HOOD SECTION #   | COLLAR #   | DISTANCE TO END (IN.)    | WIDTH (IN.)                                   | LENGTH (IN.) | DIAMETER (IN.)           | VOLUME (CFM)      | S.P. (IN. WC) | VELOCITY (FT/MIN) |  |  |
| 1 / 1  |  | 41.5                     | 12  | 12           | NA                       | 1500              | 0.518         | 1500              |  |  |
| TOTAL EXHAUST CFM - SECTION 1  |  | 1500 = 217 CFM / FT      |   |              |                          |                   |               |                   |  |  |
| OPTIONS AND ACCESSORIES  |  |                          |   |              |                          |                   |               |                   |  |  |
| 430 STAINLESS STEEL WHERE EXPOSED<br>UL 710 LISTED W/OUT EXHAUST FIRE DAMPER - UL #R25625<br>BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE<br>26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED<br>FACTORY MOUNTED EXHAUST COLLAR(S)<br>THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM<br>INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY<br>STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH<br>EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE |  |                          |   |              |                          |                   |               |                   |  |  |
| SPECIAL DESIGN REQUESTS  |  |                          |   |              |                          |                   |               |                   |  |  |
| SDR #K1100559 - NEW PITCO 4L FRYER FLUE BYPASS SYSTEM  |  |                          |   |              |                          |                   |               |                   |  |  |
| FIRE SUPPRESSION SYSTEM  |  |                          |   |              |                          |                   |               |                   |  |  |
| MANUFACTURER / MODEL SUPPRESSANT TYPE  |  | FLOW POINTS              | SUPPLY LINE                                   | DETECTION    | MOUNTING                 |                   |               |                   |  |  |
| ANSUL R-102 WET CHEMICAL   |  | 14 UTILIZED 16 AVAILABLE | CONTINUOUS                                    | FUSIBLE LINK | RIGHT END REMOTE MOUNTED |                   |               |                   |  |  |
| FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)<br>CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED<br>SUPPRESSION AGENT - INCLUDED - 3 GAL. - (1) 3 TANK(S) (1) 1.5 TANK(S)<br>GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2 IN. (ANSUL) - PART# 55610<br>REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS<br>FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED                                       |  |                          |   |              |                          |                   |               |                   |  |  |
| FIRE SYSTEM PROTECTED HOOD(S) (UL-300) (MARK NAME / SECTION#)  |  |                          |   |              |                          |                   |               |                   |  |  |
| FRYER HOOD SECTION 1 - (LENGTH 83.0 IN.) - LOW PROXIMITY HOOD  |  |                          |   |              |                          |                   |               |                   |  |  |

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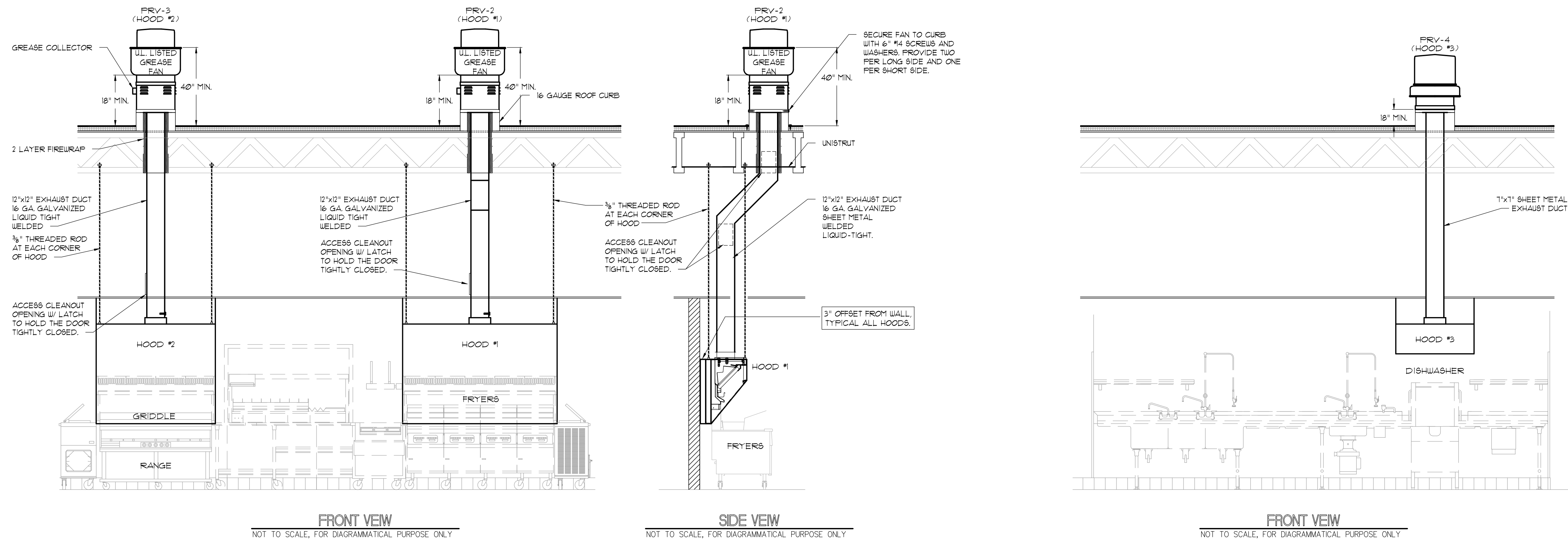
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Palm Beach County

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Drawn: BMD  
Job: 24-171  
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M3





NOTE:  
 THE DESIGN, INSTALLATION, OPERATION, INSPECTION, AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COMMERCIAL COOKING EQUIPMENT SHALL COMPLY WITH CHAPTER FPFC 15011 AND NFPA 96, STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. KITCHEN HOOD PLANS, COMPLIANT WITH THE ABOVE, SHALL BE PERMITTED SEPARATELY.

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| Job:         | 24-171   |
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REGION 60  
PHONE: (407) 682 - 3100  
EMAIL: reg60@captiveaire.com

DOAS/RTU FAN SCHEDULE - JOB#6752183

| FAN UNIT NO | TAG   | QTY | DOAS/RTU MODEL #       | FAN INFORMATION |            |                |                     |           |              |       |      |       |      | ELECTRICAL INFORMATION |      |             |        |           |        |             |        |          |           | COOLING INFORMATION |       |           |        |          |           |                       |              |          |       | REHEAT INFORMATION |           |     |   | ELECTRIC HEAT INFORMATION                      |  |  |  |  | NOTES |
|-------------|-------|-----|------------------------|-----------------|------------|----------------|---------------------|-----------|--------------|-------|------|-------|------|------------------------|------|-------------|--------|-----------|--------|-------------|--------|----------|-----------|---------------------|-------|-----------|--------|----------|-----------|-----------------------|--------------|----------|-------|--------------------|-----------|-----|---|--|--|--|--|--|-------|
|             |       |     |                        | MANUFACTURER    | BLOWER     | RETURN AIR CFM | MAX OUTSIDE AIR CFM | TOTAL CFM | WEIGHT (LBS) | ESP   | HP   | PHASE | VOLT | MCA                    | MOCP | OUTSIDE AIR |        | MIXED AIR |        | LEAVING AIR |        | CAPACITY |           | IEER                | ISMRE | DISCHARGE |        | CAPACITY |           | MOISTURE REMOVAL RATE | DSCN KW'S    | MAX KW'S | VOLTS | AMPS               | TEMP RISE |     |   |  |  |  |  |  |       |
|             |       |     |                        |                 |            |                |                     |           |              |       |      |       |      |                        |      | DB          | WB     | DB        | WB     | DB          | WB     | DP       | TOTAL     |                     |       | SENS.     | DB     | WB       | DESIRED   |                       |              |          |       |                    |           | MAX |   |  |  |  |  |  |       |
| 1           | RTU-1 | 1   | CAS-HVAC3-E.602-24-20T | CAPTIVEAIRE     | 24MF-3-RTU | 3200           | 2000                | 5200      | 2662         | 0.750 | 7.50 | 3     | 208  | 172.6A                 | 175A | 82.5 F      | 77.8 F | 77.9 F    | 68.7 F | 52.7 F      | 52.7 F | 52.8 F   | 251.4 MBH | 141.0 MBH           | 18.2  | 6.0       | 70.0 F | 59.5 F   | 101.2 MBH | 129.6 MBH             | 101.2 LBS/HR | 48       | 60    | 230                | 144.3     | 30  | F | 12,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19 |  |  |  |  |       |
| 2           | RTU-2 | 1   | CAS-HVAC3-E.452-24-20T | CAPTIVEAIRE     | 24MF-3-RTU | 3000           | 2000                | 5000      | 2671         | 0.750 | 5.00 | 3     | 208  | 130A                   | 150A | 82.5 F      | 77.8 F | 78.0 F    | 69.0 F | 52.5 F      | 52.5 F | 52.6 F   | 249.2 MBH | 137.5 MBH           | 18.2  | 6.0       | 70.0 F | 59.5 F   | 98.4 MBH  | 129.6 MBH             | 103.7 LBS/HR | 34       | 45    | 230                | 108.3     | 22  | F | 12,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19 |  |  |  |  |       |

NOTES:

- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
- DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
- REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
- EC MOTOR CONDENSING FANS
- ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
- SUCTION LINE ACCUMULATOR
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
- AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
- 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FULLY MODULATING HOT GAS REHEAT
- 15 DEGREE LOW AMBIENT OPERATION
- MAMI DADE RATED
- HAIL GUARD FOR CONDENSING COIL
- RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL
- BAROMETRIC RELIEF DAMPER
- DOWN DISCHARGE/DOWN RETURN
- SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER

FAN OPTIONS

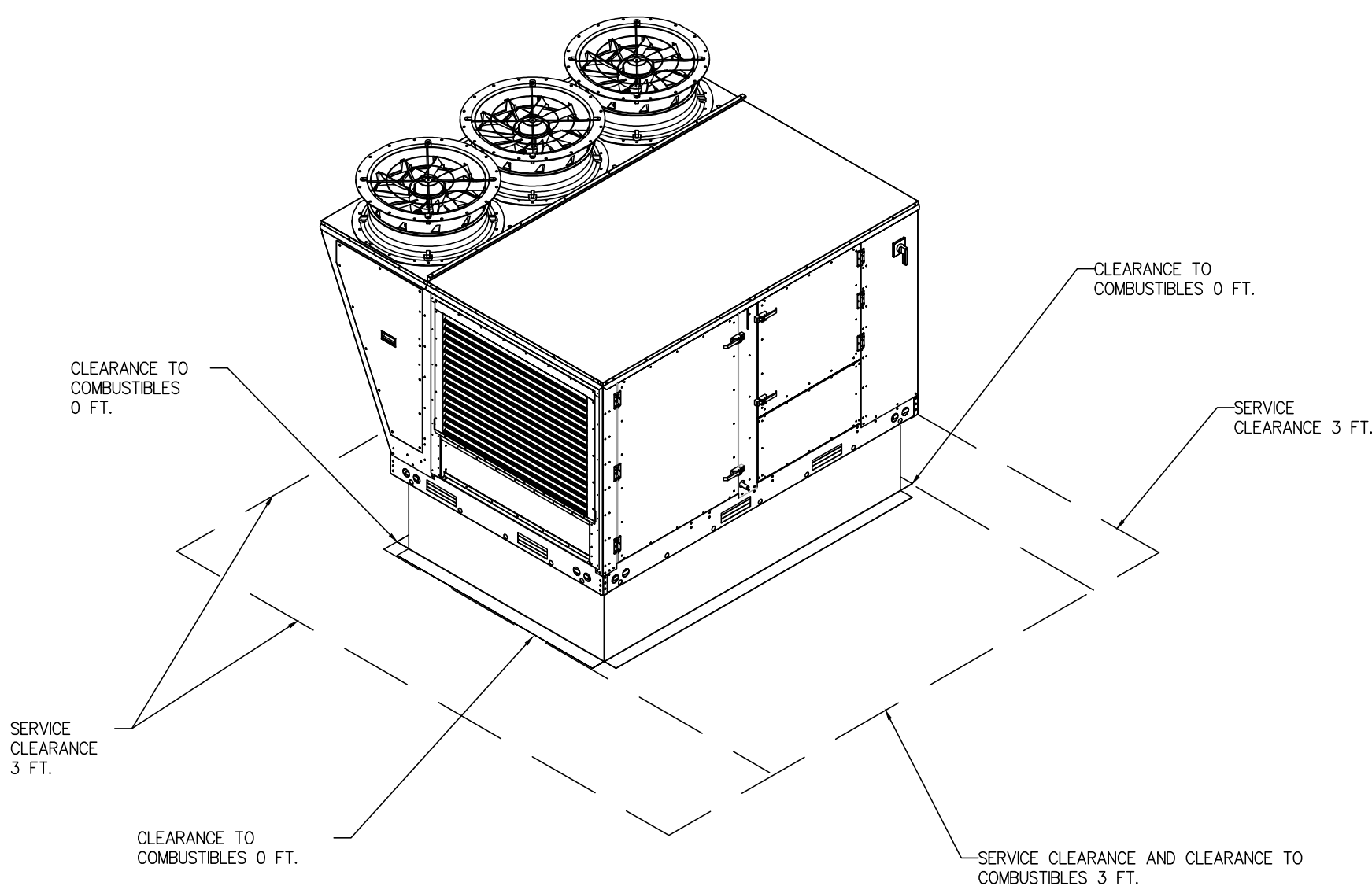
| FAN UNIT NO | TAG  | QTY | DESCRIPTION  |   |                              |
|-------------|--|-----|--|---|------------------------------|
| 1           | RTU-1  | 1   | RTU TOTAL CFM MONITORING   |   |                              |
|             |  | 1   | INTAKE FIRESTAT SET TO 135 F   |   |                              |
|             |  | 1   | FREEZESTAT   |   |                              |
|             |  | 1   | DISCHARGE FIRESTAT SET TO 240 F  |   |                              |
|             |  | 1   | CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED  |   |                              |
|             |  | 1   | 2" MERV 13 FILTERS FOR RTU3 (QTY. 4)   |   |                              |
|             |  | 1   | 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)  |   |                              |
|             |  | 1   | OVERHEAT STAT  |   |                              |
|             |  | 1   | VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE  |   |                              |
|             |  | 1   | RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW   |   |                              |
|             |  | 1   | OCCUPIED SCHEDULING  |   |                              |
|             |  | 1   | RTU3 CURB DUCT HANGER  |   |                              |
|             |  | 1   | 120V FIRE INPUT  |   |                              |
|             |  | 1   | RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED  |   |                              |
|             |  | 1   | RTU3 MAMI DADE CERTIFICATION   |   |                              |
|             |  | 1   | SINGLE POINT CONNECTION - ELECTRIC HEATER RTU BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE |   |                              |
|             |  | 1   | LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT   |   |                              |
|             |  | 1   | RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX   |   |                              |
|             |  | 1   | 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  |   |                              |
|             |  | 1   | 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL   |   |                              |
|             |  | 1   | RTU ECONOMIZER - FIXED ENTHALPY CONTROL  |   |                              |
|             |  | 1   | RTU3 ECONOMIZER BAROMETRIC RELIEF  |   |                              |
|             |  | 1   | RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI  |   |                              |
|             |  | 1   | RTU3 HAIL GUARD  |   |                              |
|             |  | 1   | RTU3 DOWN RETURN   |   |                              |
|             |  | 1   | REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR   |   |                              |
|             |  | 1   | VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)   |   |                              |
|             |  | 1   | 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT  |   |                              |
|             |  | 2   | RTU-2  | 1 | RTU TOTAL CFM MONITORING     |
|             |  |     |  | 1 | INTAKE FIRESTAT SET TO 135 F |
| 1           | FREEZESTAT   |     |  |   |                              |
| 1           | DISCHARGE FIRESTAT SET TO 240 F  |     |  |   |                              |
| 1           | CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED  |     |  |   |                              |
| 1           | 2" MERV 13 FILTERS FOR RTU3 (QTY. 4)   |     |  |   |                              |
| 1           | 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)  |     |  |   |                              |
| 1           | OVERHEAT STAT  |     |  |   |                              |
| 1           | VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE  |     |  |   |                              |
| 1           | RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW   |     |  |   |                              |
| 1           | OCCUPIED SCHEDULING  |     |  |   |                              |
| 1           | RTU3 CURB DUCT HANGER  |     |  |   |                              |
| 1           | 120V FIRE INPUT  |     |  |   |                              |
| 1           | RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED  |     |  |   |                              |
| 1           | RTU3 MAMI DADE CERTIFICATION   |     |  |   |                              |
| 1           | SINGLE POINT CONNECTION - ELECTRIC HEATER RTU BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE |     |  |   |                              |
| 1           | LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT   |     |  |   |                              |
| 1           | RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX   |     |  |   |                              |
| 1           | 20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS  |     |  |   |                              |
| 1           | 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL   |     |  |   |                              |
| 1           | RTU ECONOMIZER - FIXED ENTHALPY CONTROL  |     |  |   |                              |
| 1           | RTU3 ECONOMIZER BAROMETRIC RELIEF  |     |  |   |                              |
| 1           | RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI  |     |  |   |                              |
| 1           | RTU3 HAIL GUARD  |     |  |   |                              |
| 1           | RTU3 DOWN RETURN   |     |  |   |                              |
| 1           | REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR   |     |  |   |                              |
| 1           | VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)   |     |  |   |                              |
| 1           | 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT  |     |  |   |                              |

CURB ASSEMBLIES

| NO | ON FAN | TAG   | WEIGHT  | ITEM | SIZE  |
|----|--------|-------|---------|------|---|
| 1  | # 1    | RTU-1 | 104 LBS | CURB | 59.500"W X 91.000"L X 14.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED. |
| 2  | # 2    | RTU-2 | 104 LBS | CURB | 59.500"W X 91.000"L X 14.000"H 0.250:12.000 PITCH ALONG WIDTH, RIGHT INSULATED. |

HMI SCHEDULE

| UNIT NUMBER | HMI #                  | HMI LOCATION    | TEMP AVERAGING | MODBUS ADDRESS |
|-------------|------------------------|-----------------|----------------|----------------|
| FAN #1      | HMI #1 - UNIT HMI # 1  | MOUNTED IN UNIT | NOT AVERAGED   | 55             |
| FAN #1      | HMI #2 - SPACE HMI # 1 |                 | AVERAGED       | 56             |
| FAN #2      | HMI #1 - UNIT HMI # 1  | MOUNTED IN UNIT | NOT AVERAGED   | 55             |
| FAN #2      | HMI #2 - SPACE HMI # 1 |                 | AVERAGED       | 56             |



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
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
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| Drawn:       | BMD      |
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FAN #1 CAS-HVAC3-E.602-24MF-20T - HEATER (RTU-1)

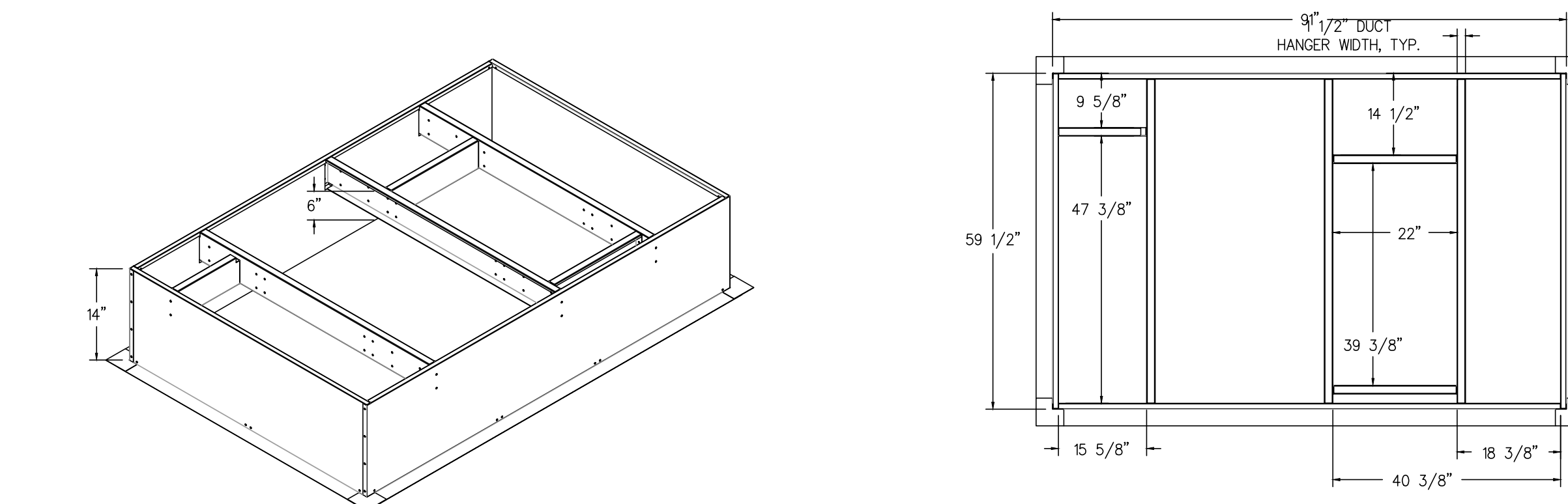
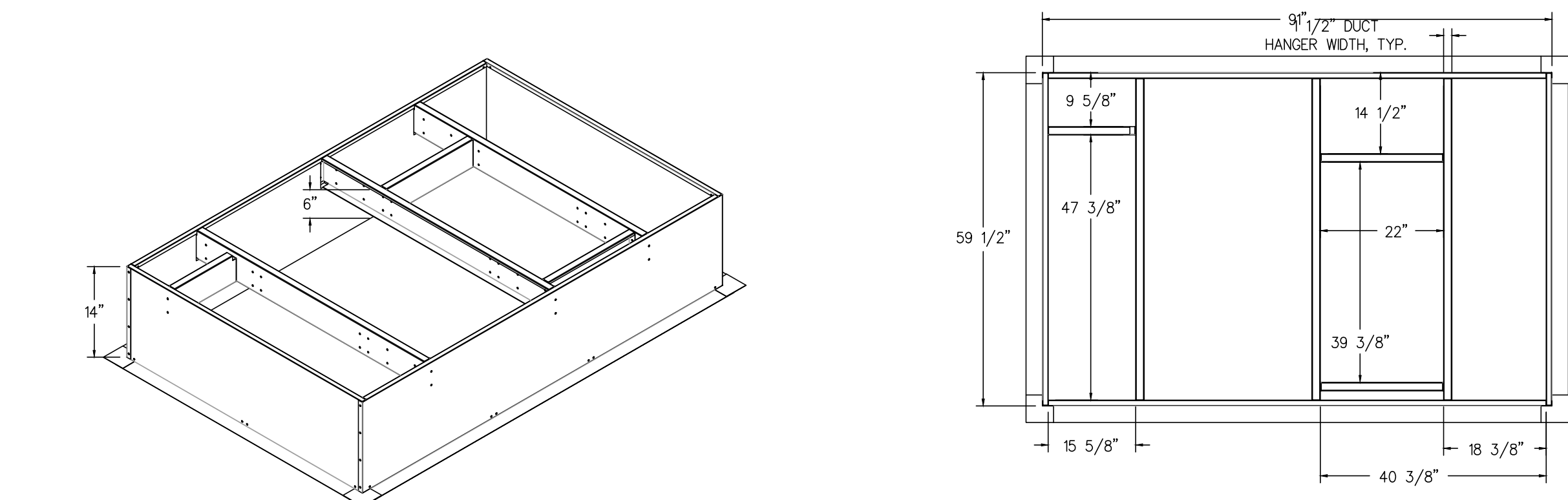
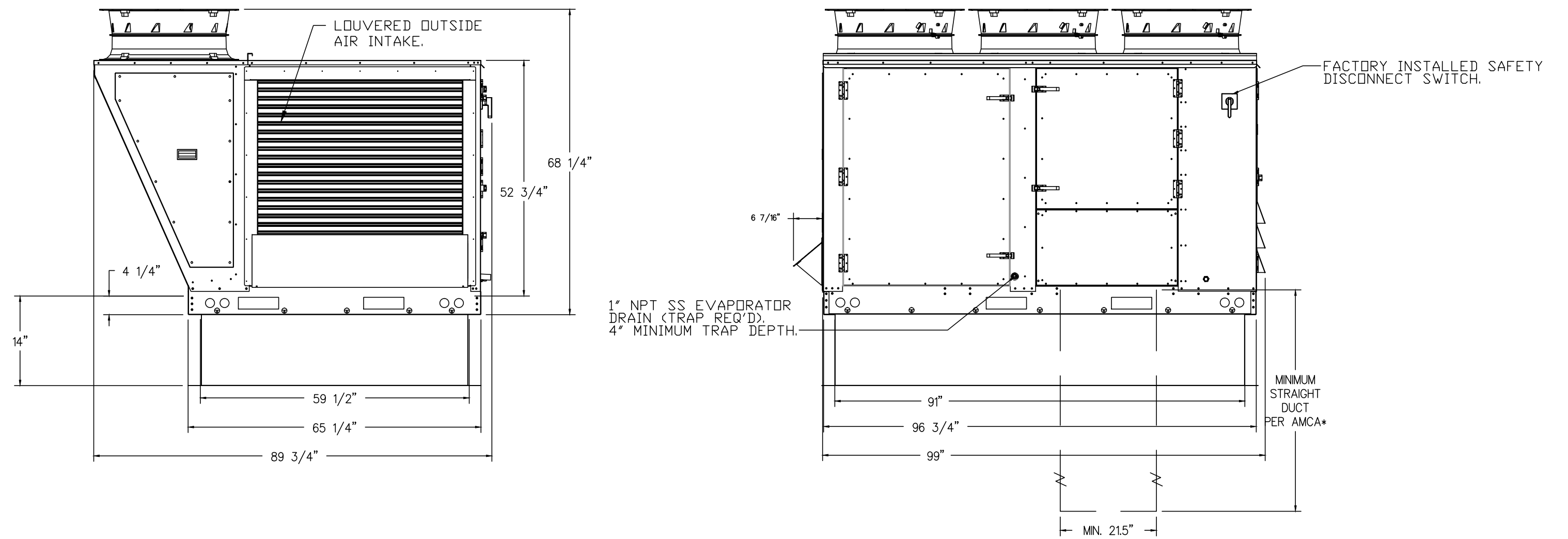
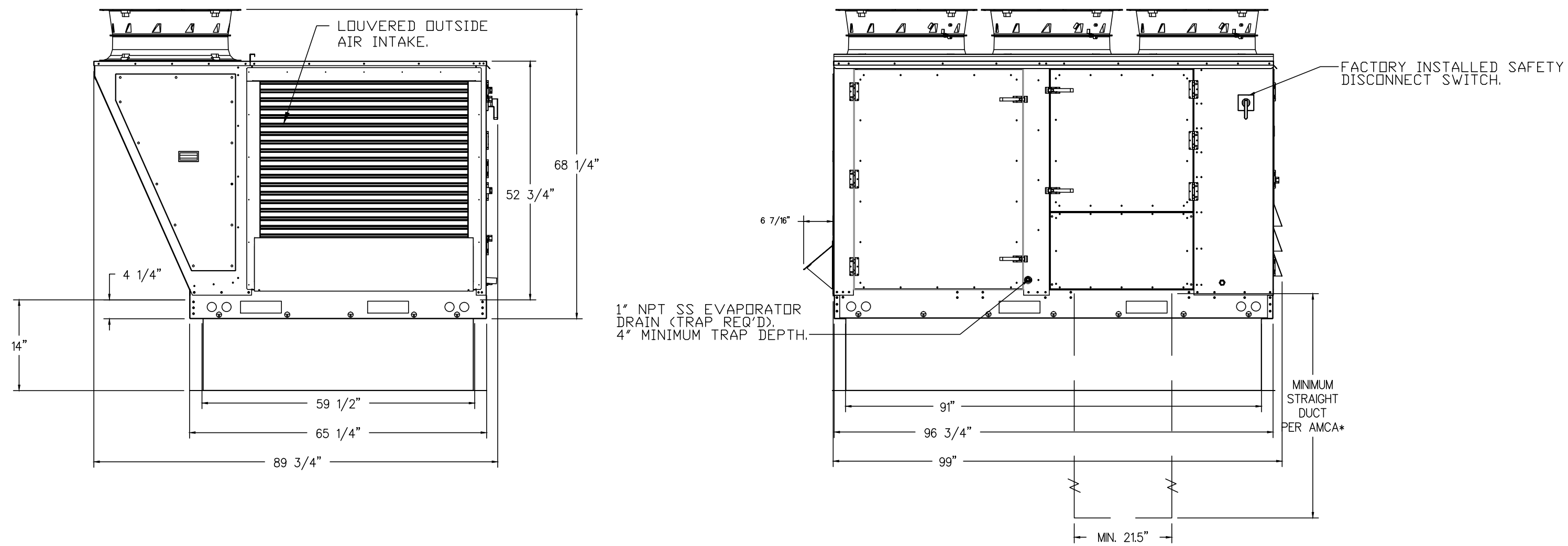
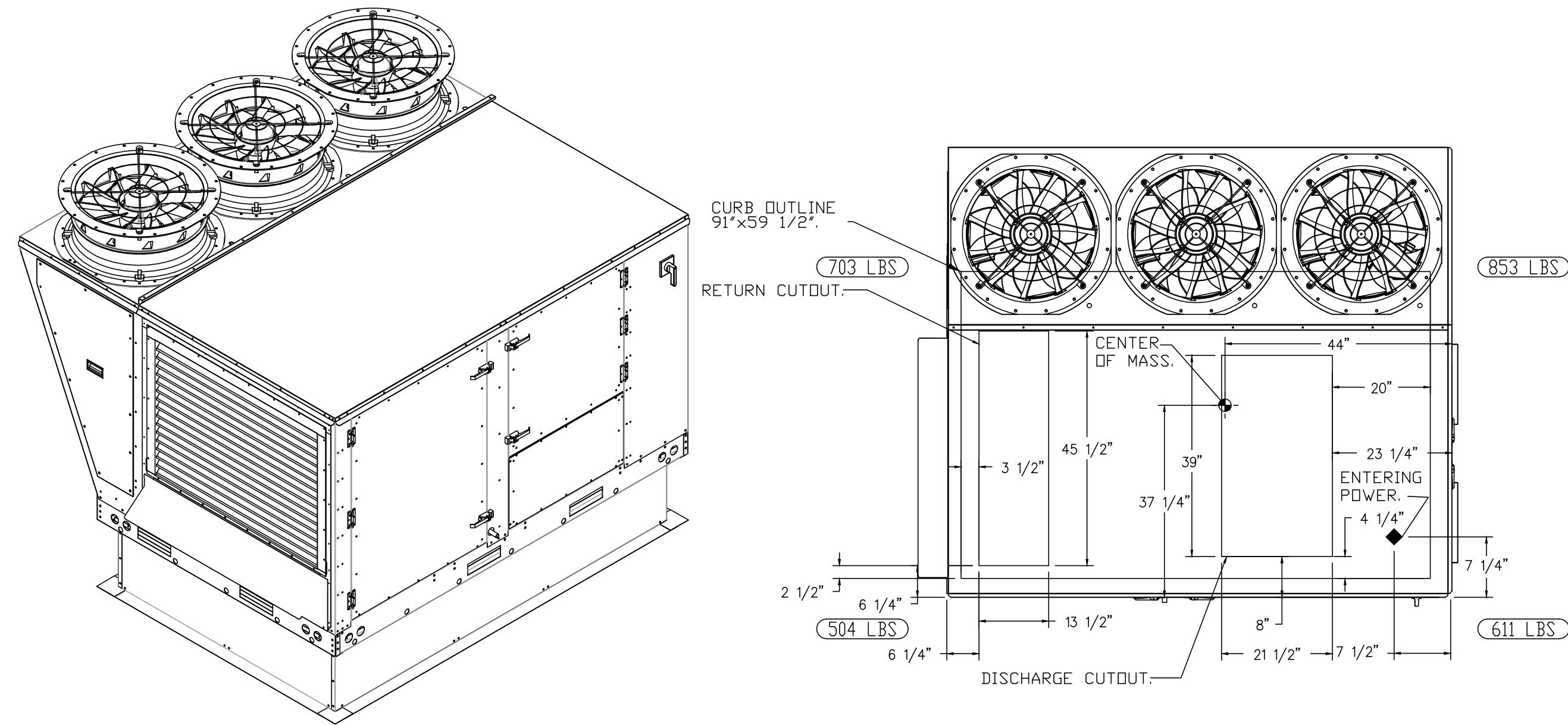
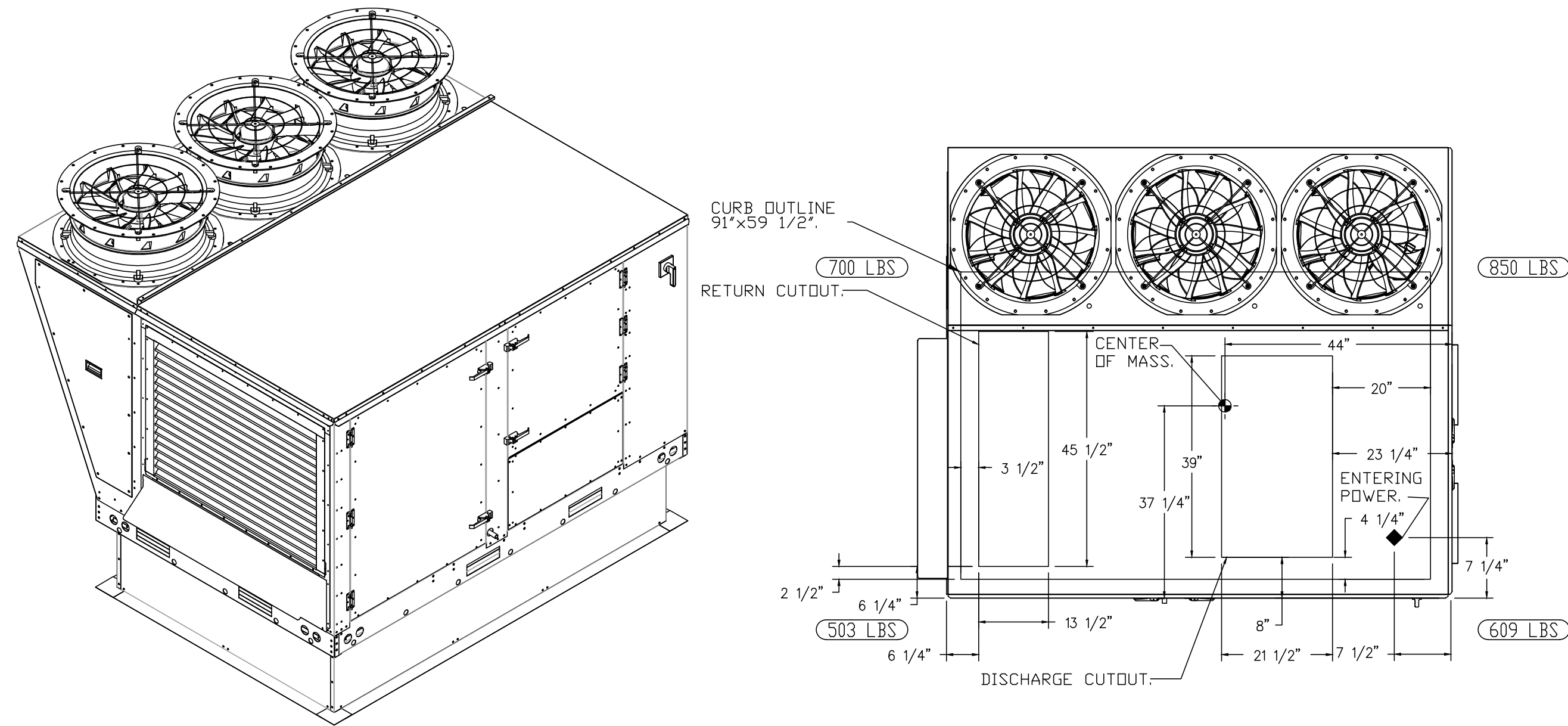
- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
  -  DENOTES CORNER WEIGHT.
  - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
  - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.  
SUGGESTED STRAIGHT DUCT SIZE IS 215" x 39".

FAN #2 CAS-HVAC3-E.452-24MF-20T - HEATER (RTU-2)

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
  -  DENOTES CORNER WEIGHT.
  - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
  - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.  
SUGGESTED STRAIGHT DUCT SIZE IS 215" x 39".



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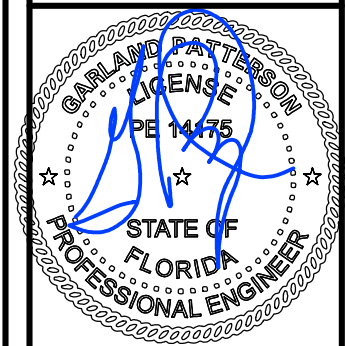
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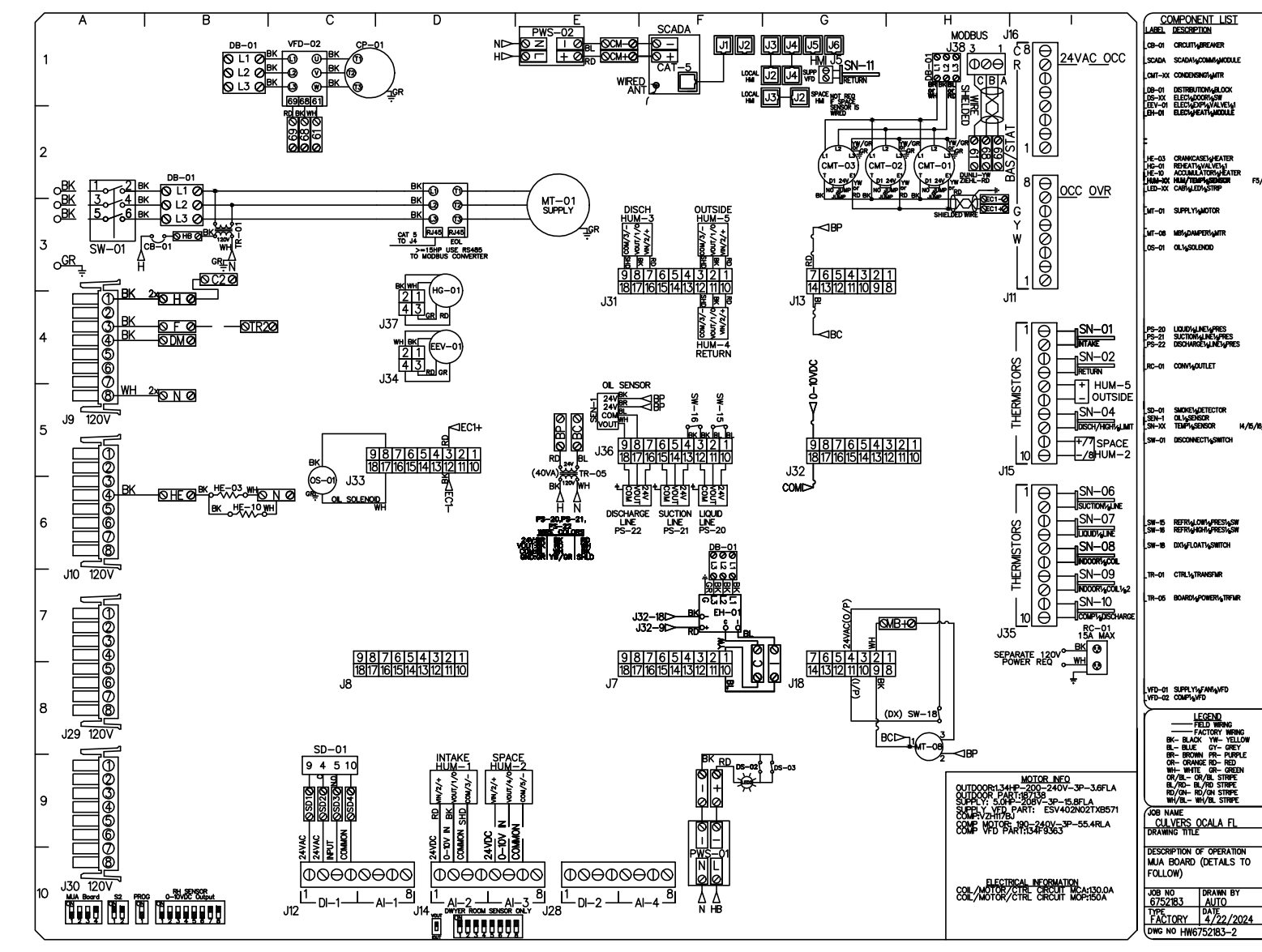
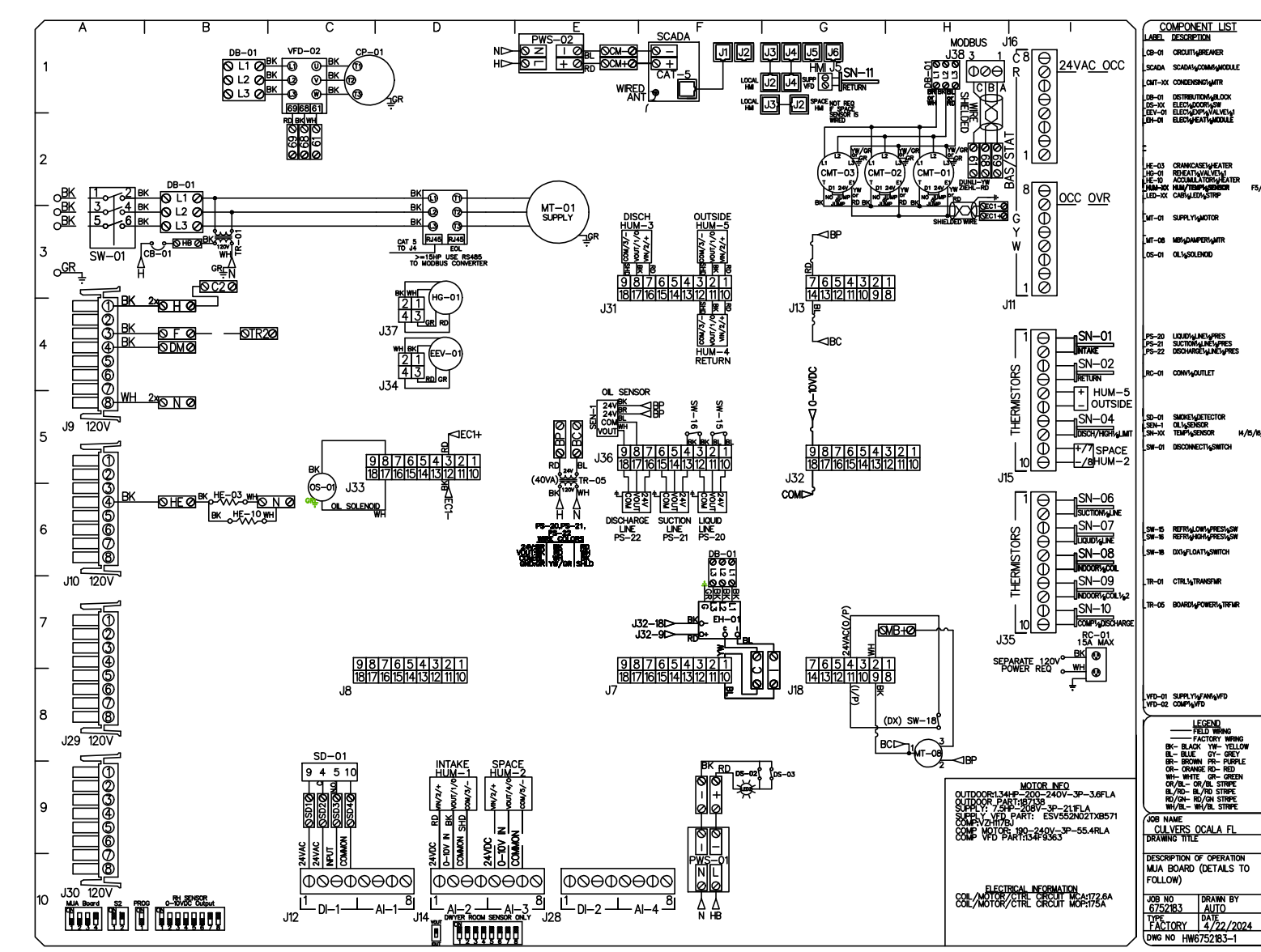
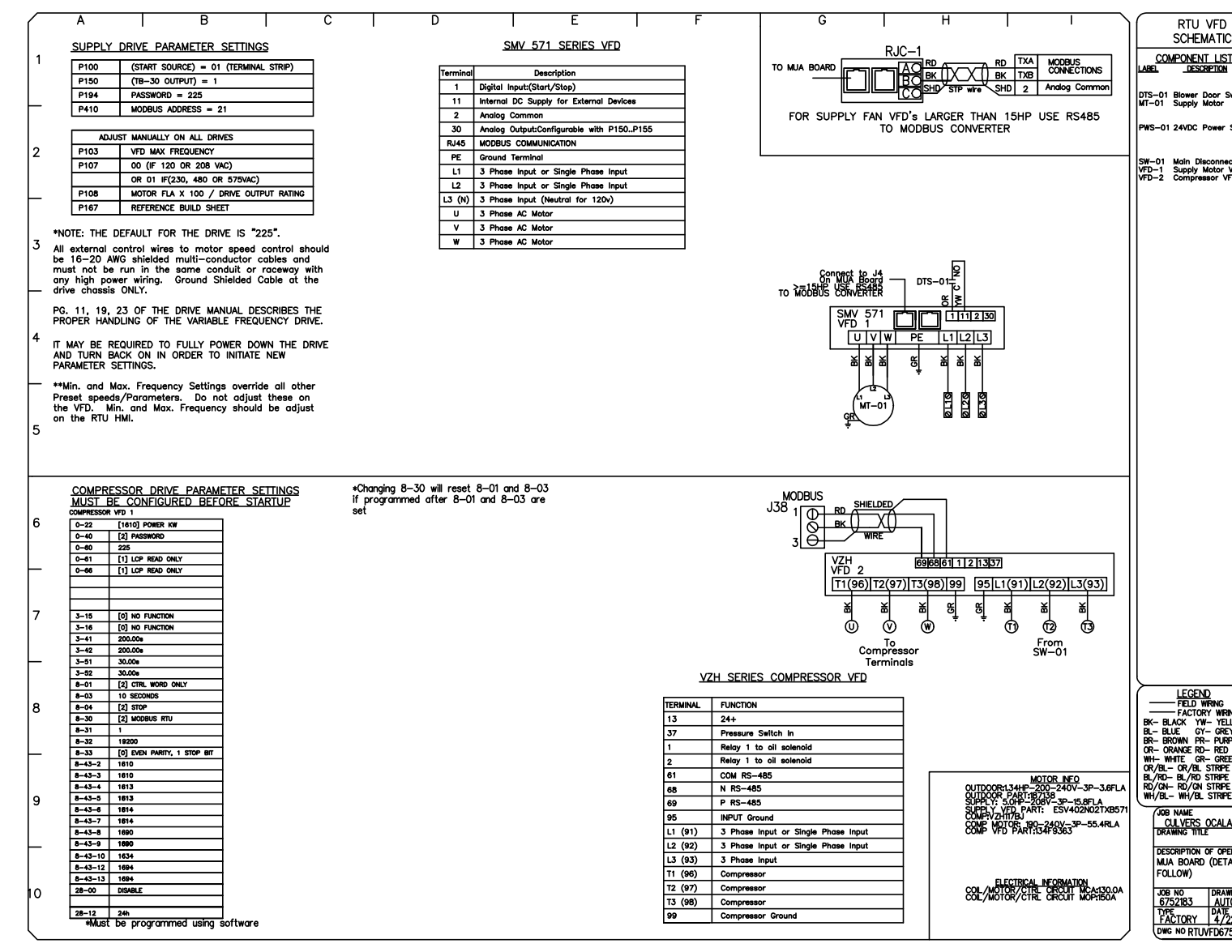
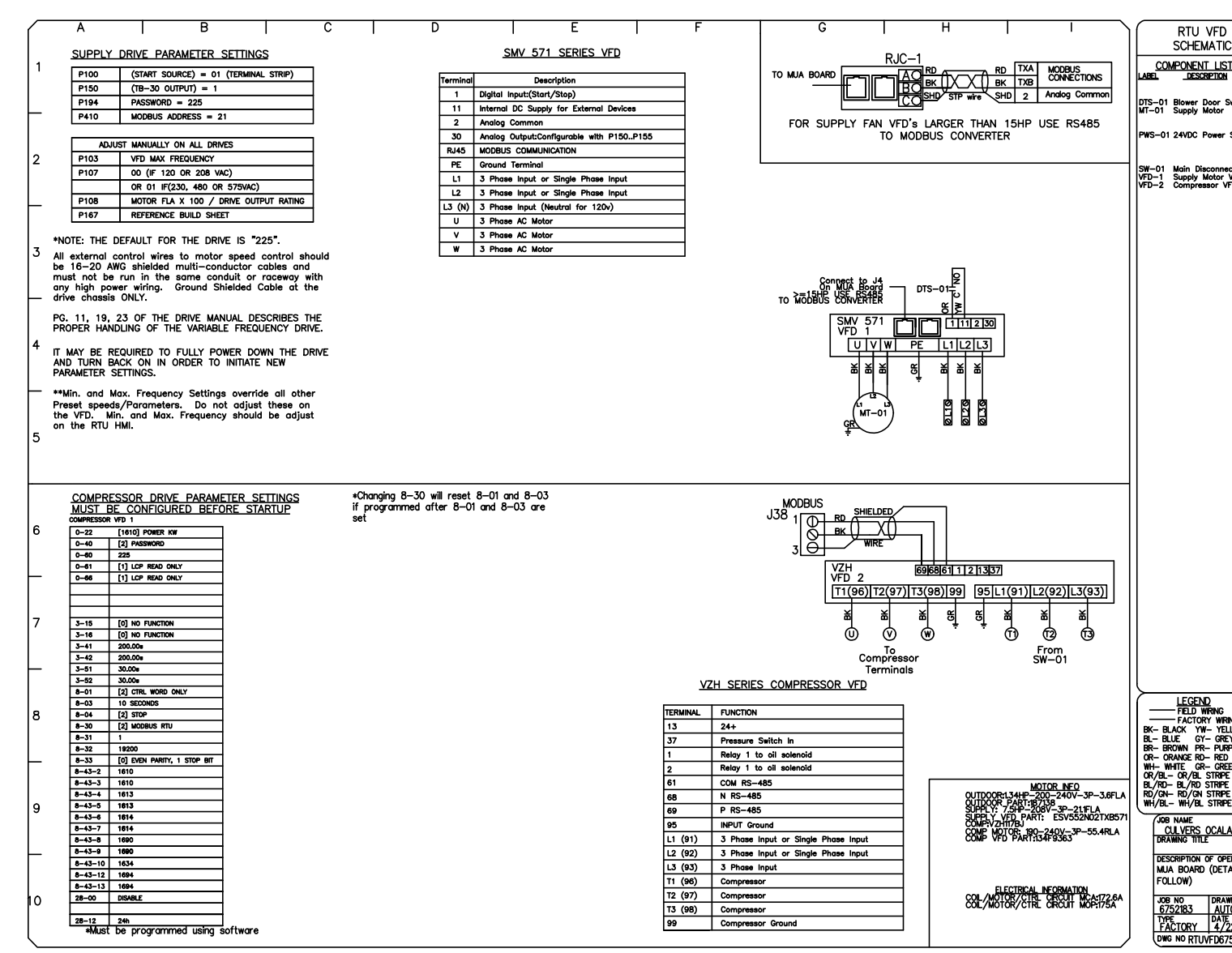
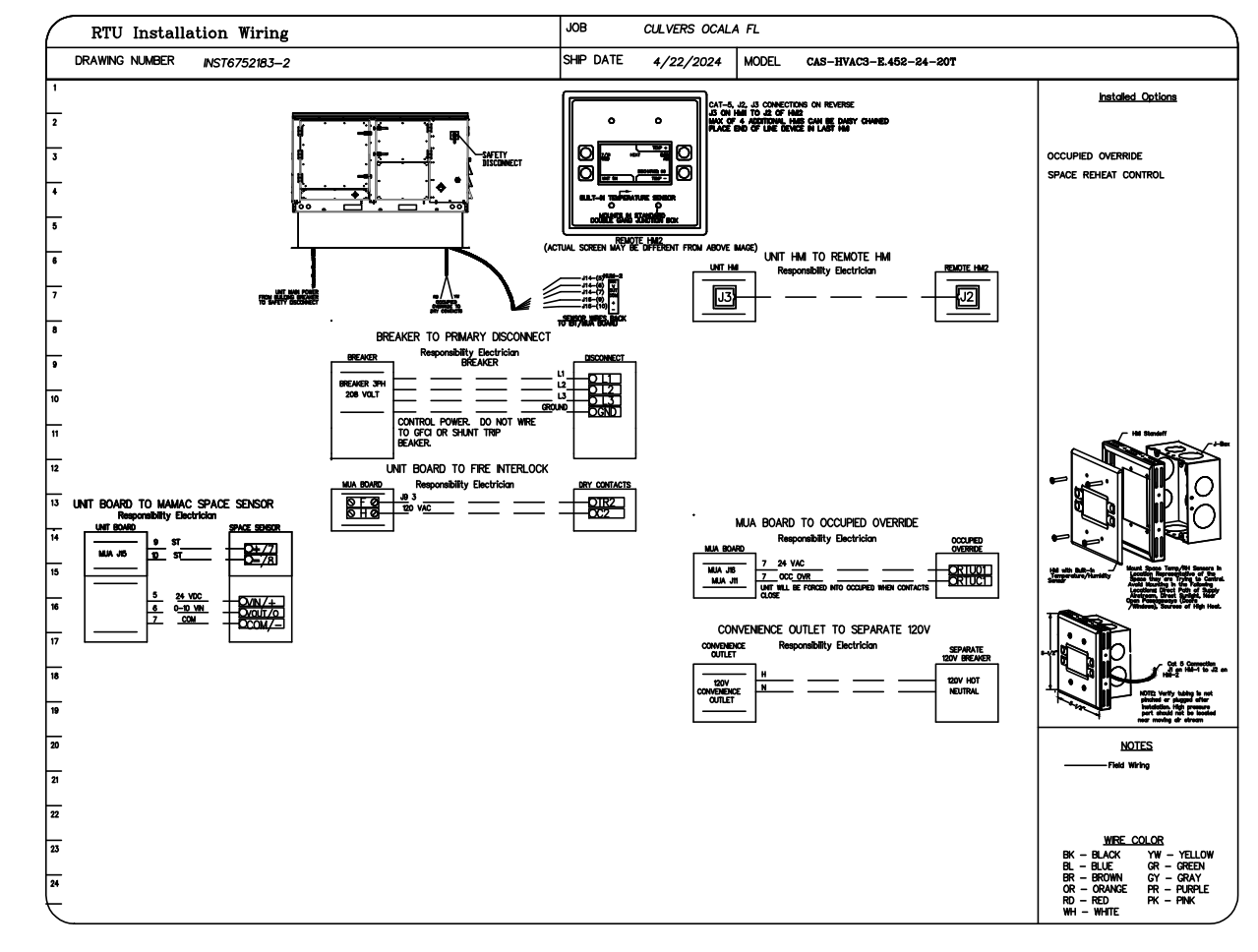
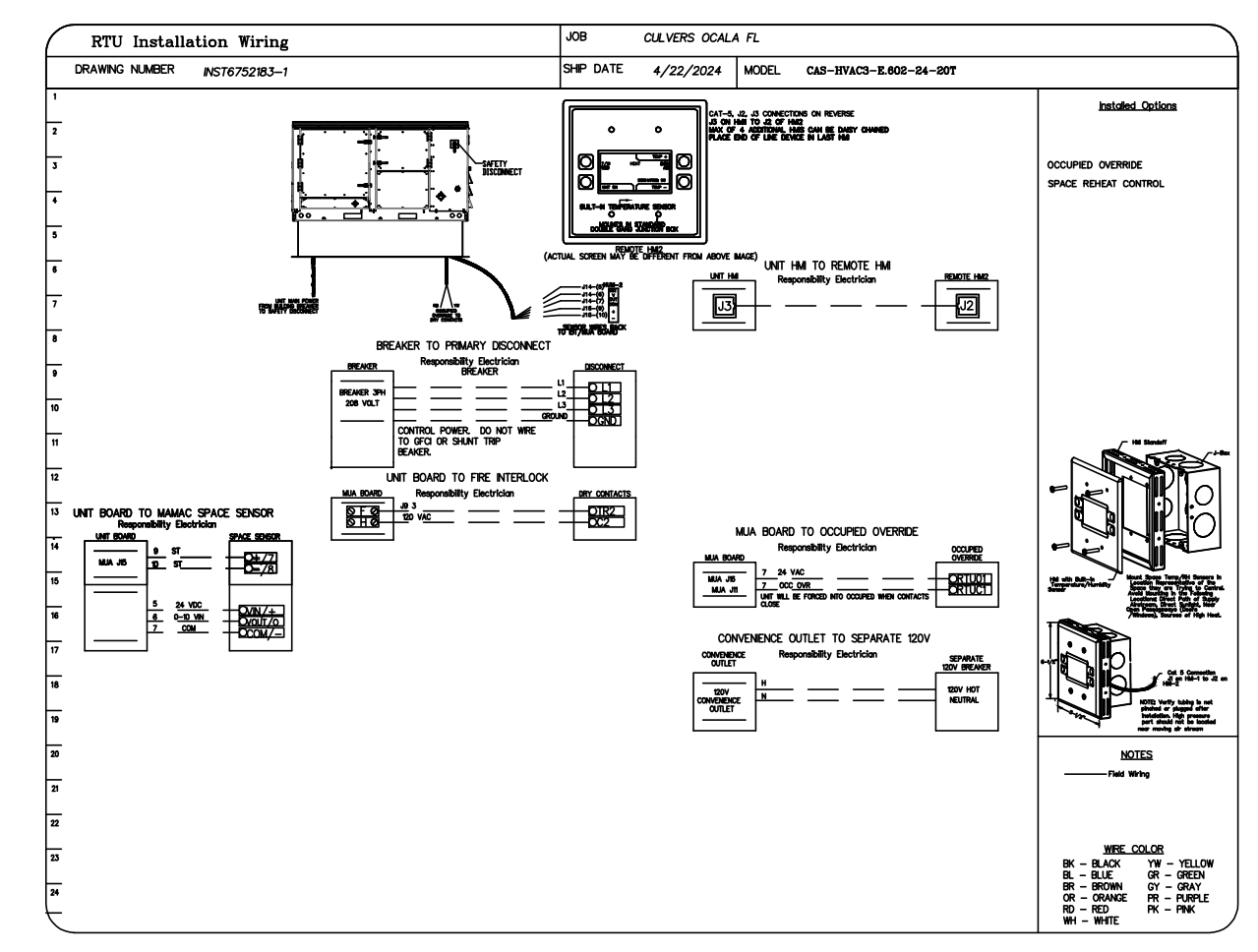
GARLAND PATTERSON, P.E.  
 FL Lic. No. 14175  
 FEB 14, 2025

**MXDI**  
**MDCI FLORIDA, INC.**  
 4860 Woolbright Rd.  
 Safety Harbor, Florida 34686  
 Engineering Business No. 97024  
 Safety Harbor, Florida 34686  
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New Free Standing  
**Clubs**  
 4860 Woolbright Rd.  
 Golf, Florida  
 Palm Beach County

Date: 02.14.25  
 Scale: AS NOTED  
 Project Mgr: SEH  
 Drawn: BMD  
 Job: 24-171  
 Sheet

**M8**





**EXHAUST FAN INFORMATION - JOB#7432301**

| FAN UNIT NO | TAG   | QTY | FAN UNIT MODEL # | MANUFACTURER | CFM  | ESP   | RPM  | MOTOR ENCL     | HP    | BHP    | PHASE | VOLT | FLA  | DISCHARGE VELOCITY | WEIGHT (LBS) | SONES |
|-------------|-------|-----|------------------|--------------|------|-------|------|----------------|-------|--------|-------|------|------|--------------------|--------------|-------|
| 1           | PRV-2 | 1   | DU85HFA          | CAPTIVEAIRE  | 1500 | 1.412 | 1406 | TEAD-ECM       | 1.000 | 0.5330 | 1     | 115  | 11.6 | 475 FPM            | 129          | 13.7  |
| 2           | PRV-3 | 1   | DU85HFA          | CAPTIVEAIRE  | 1500 | 1.250 | 1348 | TEAD-ECM       | 1.000 | 0.4700 | 1     | 115  | 11.6 | 475 FPM            | 129          | 12.4  |
| 3           | PRV-4 | 1   | DUI2HFA          | CAPTIVEAIRE  | 350  | 0.250 | 1220 | TEAD-ECM       | 0.250 | 0.0500 | 1     | 115  | 3.5  | 248 FPM            | 85           | 0.2   |
| 4           | EF-1  | 1   | CFA 250CA        | CAPTIVEAIRE  | 220  | 0.125 | 712  | GENERALPURPOSE | 0.222 | 0.1400 | 1     | 115  | 2.1  |                    | 23           | N/A   |
| 5           | EF-2  | 1   | CFA-S70-CA       | CAPTIVEAIRE  | 50   | 0.125 | 610  | GENERALPURPOSE | 0.030 | 0.0140 | 1     | 115  | 0.2  |                    | 10           | 1.4   |
| 6           | EF-3  | 1   | CFA 100CA        | CAPTIVEAIRE  | 70   | 0.125 | 470  | GENERALPURPOSE | 0.116 | 0.0440 | 1     | 115  | 1.1  |                    | 26           | N/A   |

| REVISIONS   |      |
|-------------|------|
| DESCRIPTION | DATE |
|             |      |
|             |      |
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**CAPTIVE AIR**  
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CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

**DATE:** 10/8/2025

**DWG.#:**  
7432301

**DRAWN BY:** sluddy jr

**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
3

DOAS/RTU FAN SCHEDULE -- JOB#7432301

| FAN INFORMATION |               |     |                        |              |            |           |                     |            |              |       | ELECTRICAL INFORMATION |       |      |      |      |                |        |              |        |                | COOLING INFORMATION |        |                |           |      |        |              |        |            |           | REHEAT INFORMATION |                       |           |          |       | ELECTRIC HEAT INFORMATION |           |                              |               |   | AEL MINIMUM ROOM VOLUME |  |  | NOTES |
|-----------------|---------------|-----|------------------------|--------------|------------|-----------|---------------------|------------|--------------|-------|------------------------|-------|------|------|------|----------------|--------|--------------|--------|----------------|---------------------|--------|----------------|-----------|------|--------|--------------|--------|------------|-----------|--------------------|-----------------------|-----------|----------|-------|---------------------------|-----------|------------------------------|---------------|---|-------------------------|--|--|-------|
| FAN UNIT NO     | TAG           | QTY | DOAS/RTU MODEL #       | MANUFACTURER | BLOWER     | TOTAL CFM | MAX OUTSIDE AIR CFM | RETURN CFM | WEIGHT (LBS) | ESP   | HP                     | PHASE | VOLT | MCA  | MDCP | OUTSIDE AIR DB | WB     | MIXED AIR DB | WB     | LEAVING AIR DB | WB                  | DP     | TOTAL CAPACITY | SENS.     | IEER | ISMREZ | DISCHARGE DB | WB     | DESIRED DB | WB        | MAX                | MOISTURE REMOVAL RATE | DSGN KW'S | MAX KW'S | VOLTS | AMPS                      | TEMP RISE | ROOM AREA (FT <sup>2</sup> ) | AIRFLOW (CFM) | HEIGHT (FT)   |                         |  |  |       |
| 7               | RTU-1 DINING  | 1   | CAS-HVAC3-E.602-24-20T | CAPTIVEAIR   | 24MF-3-RTU | 5200      | 2000                | 3200       | 2690         | 0.700 | 5.00                   | 3     | 208  | 166A | 175A | 87.8°F         | 80.0°F | 79.9°F       | 69.7°F | 53.6°F         | 53.6°F              | 53.6°F | 256.1 MBH      | 146.9 MBH | 18.2 | 7.9    | 70.0°F       | 60.1°F | 95.9 MBH   | 129.6 MBH | 101.4 LBS/HR       | 43                    | 60        | 208      | 144.3 | 26 °F                     | 572.7     | 1031                         | 7.2           | 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21 |                         |  |  |       |
| 8               | RTU-2 KITCHEN | 1   | CAS-HVAC3-E.452-24-20T | CAPTIVEAIR   | 24MF-3-RTU | 5000      | 2000                | 3000       | 2680         | 0.750 | 5.00                   | 3     | 208  | 130A | 150A | 87.8°F         | 80.0°F | 80.1°F       | 70.1°F | 53.4°F         | 53.4°F              | 53.4°F | 256.1 MBH      | 144.0 MBH | 18.2 | 7.9    | 70.0°F       | 60.0°F | 93.4 MBH   | 129.6 MBH | 104.2 LBS/HR       | 24                    | 45        | 208      | 108.3 | 15 °F                     | 572.7     | 1031                         | 7.2           | 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21 |                         |  |  |       |

NOTES:  
 1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL  
 2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE  
 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER  
 4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE  
 5. ECM MOTOR CONDENSING FANS  
 6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE  
 7. SUCTION LINE ACCUMULATOR  
 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY  
 9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)  
 10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE  
 11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE  
 12. FULLY MODULATING HOT GAS REHEAT  
 13. 15 DEGREE LDW AMBIENT OPERATION  
 14. MIAMI DADE RATED  
 15. HAIL GUARD FOR CONDENSING COIL  
 16. RTU ECONDMIZER WITH FIXED ENTHALPY CONTROL  
 17. BAROMETRIC RELIEF DAMPER  
 18. DOWN DISCHARGE/DOWN RETURN  
 19. SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER  
 20. MINIMUM ROOM AREA ASSUMED 7'-2" SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.  
 21. SCRR RATING OF 10AMP

FAN ACCESSORIES

| FAN UNIT NO | TAG   | EXHAUST    |                |            | SUPPLY         |                |                  |
|-------------|-------|------------|----------------|------------|----------------|----------------|------------------|
|             |       | GREASE CUP | GRAVITY DAMPER | WALL MOUNT | SIDE DISCHARGE | GRAVITY DAMPER | MOTORIZED DAMPER |
| 1           | PRV-2 | YES        |                |            |                |                |                  |
| 2           | PRV-3 | YES        |                |            |                |                |                  |
| 3           | PRV-4 |            |                |            |                |                |                  |
| 4           | EF-1  |            |                |            |                |                |                  |
| 5           | EF-2  |            |                |            |                |                |                  |
| 6           | EF-3  |            |                |            |                |                |                  |

CURB ASSEMBLIES

| NO | DN FAN | TAG           | R-VALUE | WEIGHT  | ITEM | SIZE  |
|----|--------|---------------|---------|---------|------|---|
| 1  | # 1    | PRV-2         |         | 78 LBS  | CURB | 23,000"W X 23,000"L X 28,000"H VENTED HINGED 16 GAUGE.                        |
| 2  | # 2    | PRV-3         |         | 78 LBS  | CURB | 23,000"W X 23,000"L X 28,000"H VENTED HINGED 16 GAUGE.                        |
| 3  | # 3    | PRV-4         |         | 16 LBS  | CURB | 17,500"W X 17,500"L X 12,000"H.   |
| 4  |        |               |         | 18 LBS  | CURB | 19,500"W X 19,500"L X 12,000"H.   |
| 7  | # 7    | RTU-1 DINING  | 4.3     | 104 LBS | CURB | 59,500"W X 91,000"L X 14,000"H 0.25012.000 PITCH ALONG WIDTH, LEFT INSULATED. |
| 8  | # 8    | RTU-2 KITCHEN | 4.3     | 104 LBS | CURB | 59,500"W X 91,000"L X 14,000"H 0.25012.000 PITCH ALONG WIDTH, LEFT INSULATED. |

\* R4.5 FOLI FACED FIBERGLASS INSULATION COMPLIES WITH UL/ULCASTM, & ASHRAE STANDARDS.

FAN OPTIONS

| FAN UNIT NO | TAG   | QTY | DESCRIPTION  |
|-------------|-------|-----|--|
| 1           | PRV-2 | 1   | GREASE BOX   |
|             |       | 1   | FAN BASE CERAMIC SEAL - DU/DRBSHFA - SHIP LOOSE - FOR GREASE DUCTS                                   |
|             |       | 1   | MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST  |
|             |       | 1   | ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION     |
| 2           | PRV-3 | 1   | 2 YEAR PARTS WARRANTY  |
|             |       | 1   | FULL CRATING FOR EXHAUST FANS  |
|             |       | 1   | MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST  |
|             |       | 1   | ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION |
| 3           | PRV-4 | 1   | 2 YEAR PARTS WARRANTY  |
|             |       | 1   | FULL CRATING FOR EXHAUST FANS  |
|             |       | 1   | MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST  |
|             |       | 1   | ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION |
| 4           | EF-1  | 1   | CEILING VIBRATION HANGERS  |
|             |       | 1   | FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS                                   |
| 5           | EF-2  | 1   | 2 YEAR PARTS WARRANTY  |
|             |       | 1   | MGI - METAL GRILLE KIT   |
| 6           | EF-3  | 1   | CEILING VIBRATION HANGERS  |
|             |       | 1   | 2 YEAR PARTS WARRANTY  |

FAN OPTIONS

| FAN UNIT NO | TAG           | QTY | DESCRIPTION   |
|-------------|---------------|-----|---|
| 7           | RTU-1 DINING  | 1   | COOLING OVERRIDE  |
|             |               | 1   | CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED   |
|             |               | 1   | STILL UNDER CONSTRUCTION  |
|             |               | 1   | RTU BLOWER DOOR SWITCH  |
|             |               | 1   | 2" MERV 13 FILTERS FOR RTU3 (QTY. 4)  |
|             |               | 1   | 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)   |
|             |               | 1   | OVERHEAT STAT   |
|             |               | 1   | TOTAL CFM MONITORING  |
|             |               | 1   | VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE   |
|             |               | 1   | RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW  |
| 8           | RTU-2 KITCHEN | 1   | SINGLE POINT CONNECTION - ELECTRIC HEATER RTU, BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #88, #47, "MA", OR "EP" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE |
|             |               | 1   | 20 TON MODULATING COOLING OPTION, 208/230V, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS   |
|             |               | 1   | LDW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT  |
|             |               | 1   | R454B LEAK DETECTOR OPTION FOR RTUS   |
|             |               | 1   | OCCUPIED SCHEDULING   |
|             |               | 1   | INTAKE FIRESTAT SET TO 135°F  |
|             |               | 1   | FREEZESTAT  |
|             |               | 1   | DISCHARGE FIRESTAT SET TO 240°F   |
|             |               | 1   | 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B  |
|             |               | 1   | RTU3 CURB DUCT HANGER   |
| 1           |               | 1   | 24VAC FIRE INPUT  |
|             |               | 1   | RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED   |
|             |               | 1   | RTU3 MIAMI DADE CERTIFICATION   |
|             |               | 1   | RTU3 CONVENIENCE BUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX  |
|             |               | 1   | RTU ECONDMIZER - FIXED ENTHALPY CONTROL   |
|             |               | 1   | RTU3 ECONDMIZER BAROMETRIC RELIEF   |
|             |               | 1   | RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI   |
|             |               | 1   | RTU3 HAIL GUARD   |
|             |               | 1   | RTU3 DOWN RETURN  |
|             |               | 1   | 2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE   |
| 1           |               | 1   | VAV PACKAGE W/ MANUAL/DC CONTROL (S71 VFD INCLUDED)   |
|             |               | 1   | 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIR SERVICE CONTRACT  |

FAN OPTIONS

| FAN UNIT NO | TAG           | QTY | DESCRIPTION   |
|-------------|---------------|-----|---|
| 8           | RTU-2 KITCHEN | 1   | COOLING OVERRIDE  |
|             |               | 1   | CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED   |
|             |               | 1   | RTU BLOWER DOOR SWITCH  |
|             |               | 1   | 2" MERV 13 FILTERS FOR RTU3 (QTY. 4)  |
|             |               | 1   | 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)   |
|             |               | 1   | OVERHEAT STAT   |
|             |               | 1   | TOTAL CFM MONITORING  |
|             |               | 1   | VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE   |
|             |               | 1   | RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW  |
|             |               | 1   | SINGLE POINT CONNECTION - ELECTRIC HEATER RTU, BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #88, #47, "MA", OR "EP" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE |
| 1           |               | 1   | 20 TON MODULATING COOLING OPTION, 208/230V, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS   |
|             |               | 1   | LDW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT  |
|             |               | 1   | R454B LEAK DETECTOR OPTION FOR RTUS   |
|             |               | 1   | OCCUPIED SCHEDULING   |
|             |               | 1   | INTAKE FIRESTAT SET TO 135°F  |
|             |               | 1   | FREEZESTAT  |
|             |               | 1   | DISCHARGE FIRESTAT SET TO 240°F   |
|             |               | 1   | 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B  |
|             |               | 1   | RTU3 CURB DUCT HANGER   |
|             |               | 1   | RTU3 MIAMI DADE CERTIFICATION   |
| 1           |               | 1   | RTU3 CONVENIENCE BUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX  |
|             |               | 1   | RTU ECONDMIZER - FIXED ENTHALPY CONTROL   |
|             |               | 1   | RTU3 ECONDMIZER BAROMETRIC RELIEF   |
|             |               | 1   | RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI   |
|             |               | 1   | RTU3 HAIL GUARD   |
|             |               | 1   | RTU3 DOWN RETURN  |
|             |               | 1   | 2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE   |
|             |               | 1   | VAV PACKAGE W/ 0-10VDC INPUT CONTROL (S71 VFD INCLUDED)   |
|             |               | 1   | 5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIR SERVICE CONTRACT  |

REVISIONS

| DESCRIPTION | DATE: |
|-------------|-------|
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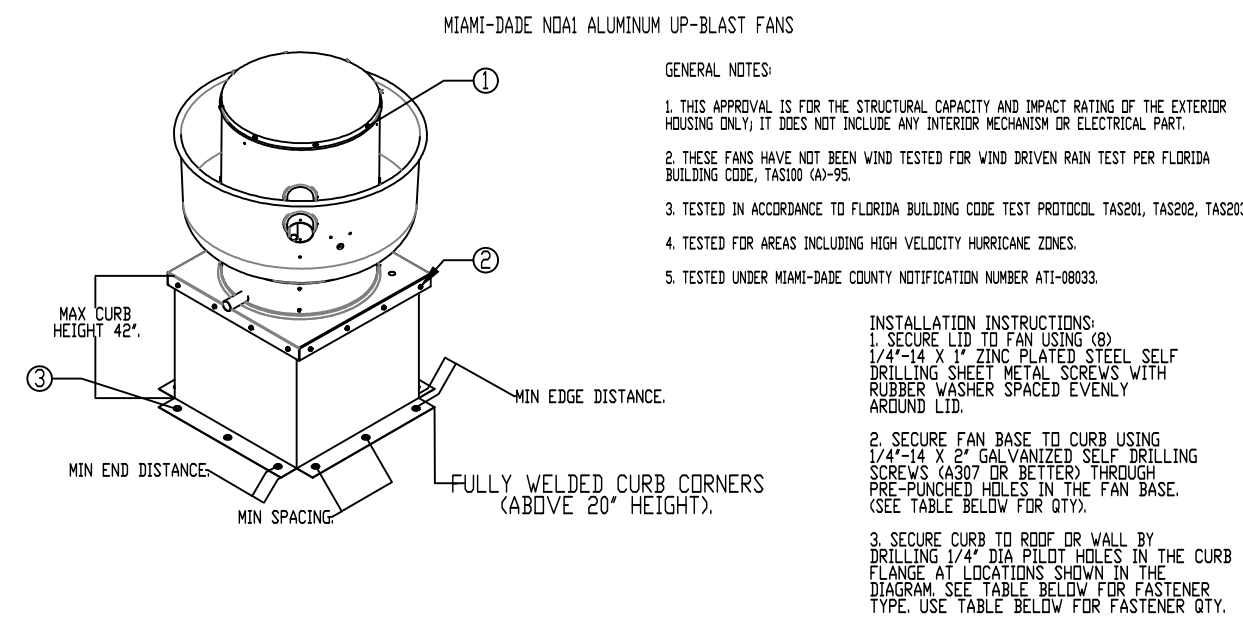


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CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

DATE: 10/8/2025  
 DWG.#: 7432301  
 DRAWN BY: studdy jr  
 SCALE: 1/2" = 1'-0"  
 MASTER DRAWING

SHEET NO. 4

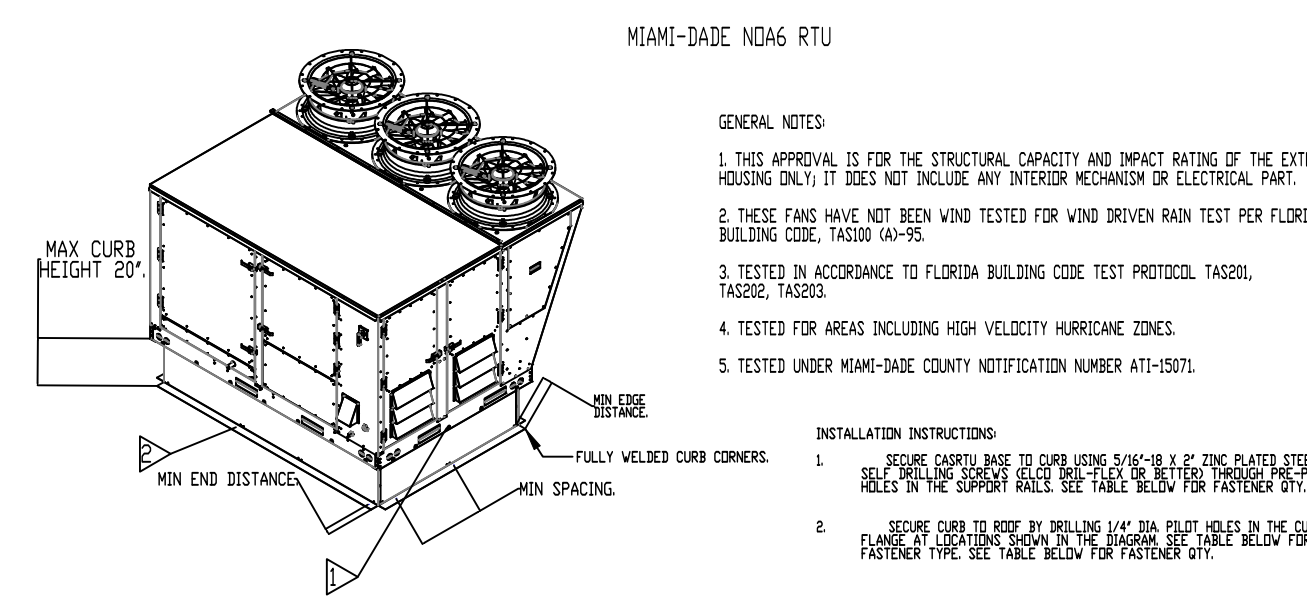


CURB MATERIAL:  
20" HIGH & LESS = 20 GA. STEEL  
ABOVE 20" THRU 42" = 16 GA. STEEL

DESIGN PRESSURE: +1500 / -1500 PSF  
LARGE MISSILE IMPACT RESISTANT.

| INSTALLATION FASTENER TYPES |  |                                |                                       |  |                                |   |  |   |                                       |  |                                |
|-----------------------------|--|--------------------------------|---------------------------------------|--|--------------------------------|---|--|---|---------------------------------------|--|--------------------------------|
| FAN TO CURB                 |  | WOOD (SG = 0.42 MIN.)          |                                       | STEEL (12 GAUGE MIN.)                            |                                | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |  | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |                                       | CONCRETE (2500 PSI MIN. CRACKED CONCRETE)        |                                |
| FASTENER                    | 5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER) | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW     | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT            | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT |
| MINIMUM THREAD PENETRATION  | N/A  | 2-1/2"                         | 12 GAUGE                              | 2"   | N/A                            | 2-1/2"                                    | 12 GAUGE   | 2"  | N/A                                   | 2-1/2"   | 12 GAUGE                       |
| MINIMUM EDGE DISTANCE       | N/A  | 1-1/2"                         | 3/8"                                  | 3"   | N/A                            | 1-1/2"                                    | 3/8"   | 3"  | N/A                                   | 1-1/2"   | 3/8"                           |
| MINIMUM END DISTANCE        | N/A  | 2-5/8"                         | 3/8"                                  | 3"   | N/A                            | 2-5/8"                                    | 3/8"   | 3"  | N/A                                   | 2-5/8"   | 3/8"                           |
| MINIMUM SPACING             | N/A  | 1-1/2"                         | 3/4"                                  | 5-1/2"   | N/A                            | 1-1/2"                                    | 3/4"   | 5-1/2"                                    | N/A                                   | 1-1/2"   | 3/4"                           |

| INSTALLATION FASTENER QTY |                    |       |                    |       |             |       |              |       |                 |       |                  |       |
|---------------------------|--------------------|-------|--------------------|-------|-------------|-------|--------------|-------|-----------------|-------|------------------|-------|
| FAN MODEL                 | CURB TO FAN (ROOF) |       | CURB TO FAN (WALL) |       | WOOD (ORDF) |       | STEEL (ORDF) |       | CONCRETE (ORDF) |       | CONCRETE (OWALL) |       |
|                           | PER SIDE           | TOTAL | PER SIDE           | TOTAL | PER SIDE    | TOTAL | PER SIDE     | TOTAL | PER SIDE        | TOTAL | PER SIDE         | TOTAL |
| DURS                      | 3                  | 12    | 3                  | 12    | 4           | 16    | 4            | 16    | 5               | 20    | 4                | 16    |
| DUR2                      | 3                  | 12    | 3                  | 12    | 3           | 12    | 3            | 12    | 3               | 12    | 3                | 12    |

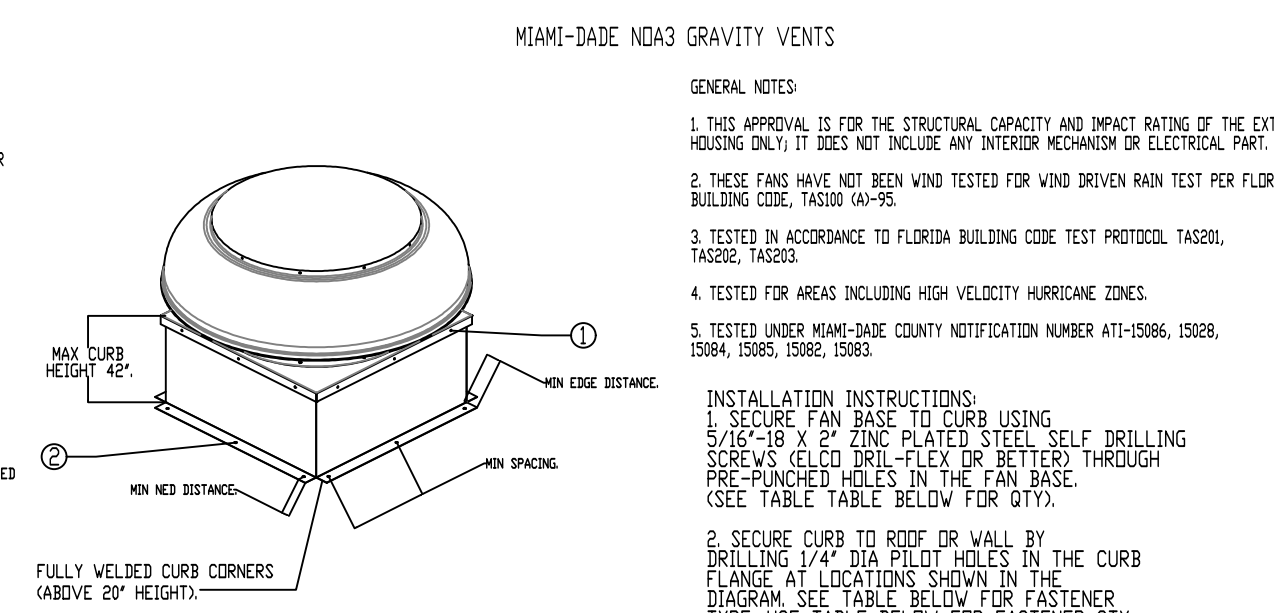


CURB MATERIAL:  
20" HIGH & LESS = 18 GA. STEEL

DESIGN PRESSURE: +1500 / -1500 PSF  
LARGE MISSILE IMPACT RESISTANT.

| INSTALLATION FASTENER TYPES |  |                                |                                       |  |                                |   |  |   |                                       |  |                                |
|-----------------------------|--|--------------------------------|---------------------------------------|--|--------------------------------|---|--|---|---------------------------------------|--|--------------------------------|
| FAN TO CURB                 |  | WOOD (SG = 0.42 MIN.)          |                                       | STEEL (12 GAUGE MIN.)                            |                                | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |  | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |                                       | CONCRETE (2500 PSI MIN. CRACKED CONCRETE)        |                                |
| FASTENER                    | 5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER) | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW     | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT            | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT |
| MINIMUM THREAD PENETRATION  | N/A  | 2-1/2"                         | 12 GAUGE                              | 2"   | N/A                            | 2-1/2"                                    | 12 GAUGE   | 2"  | N/A                                   | 2-1/2"   | 12 GAUGE                       |
| MINIMUM EDGE DISTANCE       | N/A  | 1-1/2"                         | 3/8"                                  | 3"   | N/A                            | 1-1/2"                                    | 3/8"   | 3"  | N/A                                   | 1-1/2"   | 3/8"                           |
| MINIMUM END DISTANCE        | N/A  | 4-1/2"                         | 3/8"                                  | 4-1/2"   | N/A                            | 4-1/2"                                    | 3/8"   | 4-1/2"                                    | N/A                                   | 4-1/2"   | 3/8"                           |
| MINIMUM SPACING             | N/A  | 1-1/2"                         | 6"                                    | 6"   | N/A                            | 1-1/2"                                    | 6"   | 6"  | N/A                                   | 1-1/2"   | 6"                             |

| INSTALLATION FASTENER QTY |             |            |       |           |            |       |           |            |          |           |            |       |
|---------------------------|-------------|------------|-------|-----------|------------|-------|-----------|------------|----------|-----------|------------|-------|
| FAN MODEL                 | CURB TO FAN |            | WOOD  |           | STEEL      |       | CONCRETE  |            | CONCRETE |           | CONCRETE   |       |
|                           | LONG SIDE   | SHORT SIDE | TOTAL | LONG SIDE | SHORT SIDE | TOTAL | LONG SIDE | SHORT SIDE | TOTAL    | LONG SIDE | SHORT SIDE | TOTAL |
| HVAC3                     | 7           | 5          | 24    | 14        | 10         | 48    | 12        | 8          | 40       | 12        | 9          | 42    |

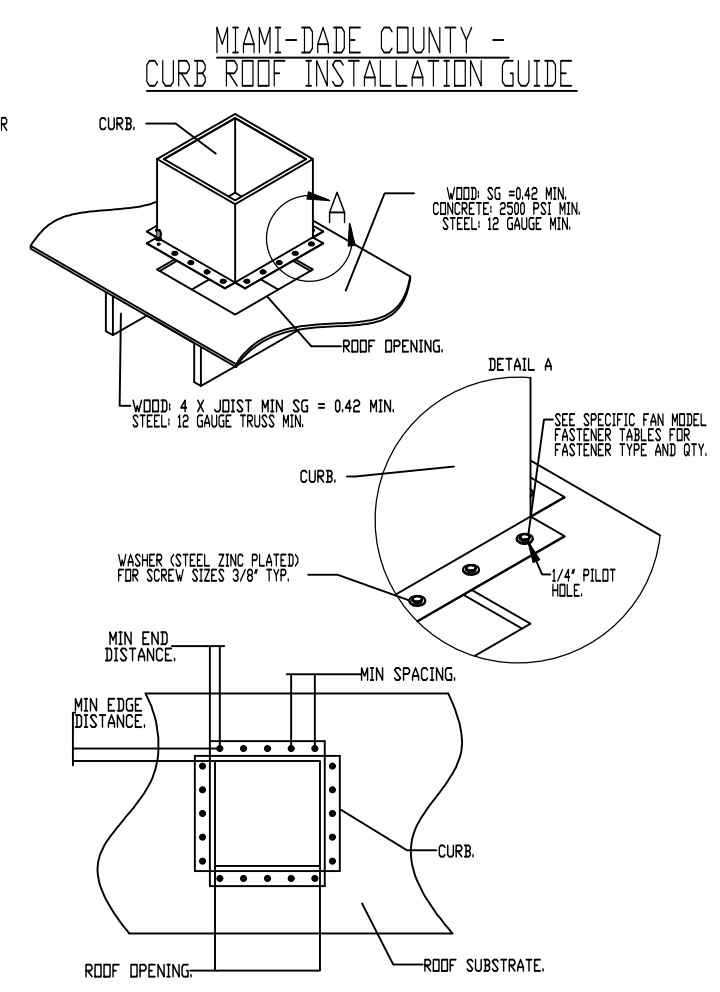


CURB MATERIAL:  
20" HIGH & LESS = 20 GA. STEEL  
ABOVE 20" THRU 42" = 16 GA. STEEL

DESIGN PRESSURE: +1500 / -1500 PSF  
LARGE MISSILE IMPACT RESISTANT.

| INSTALLATION FASTENER TYPES |  |                                |                                       |  |                                |   |  |   |                                       |  |                                |
|-----------------------------|--|--------------------------------|---------------------------------------|--|--------------------------------|---|--|---|---------------------------------------|--|--------------------------------|
| FAN TO CURB                 |  | WOOD (SG = 0.42 MIN.)          |                                       | STEEL (12 GAUGE MIN.)                            |                                | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |  | CONCRETE (2500 PSI MIN. CRACKED CONCRETE) |                                       | CONCRETE (2500 PSI MIN. CRACKED CONCRETE)        |                                |
| FASTENER                    | 5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER) | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW     | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT            | 1/4"-14 DRIL-FLEX SELF DRILLING SCREW | 3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR | 3/8" DIA. ZINC PLATED LAG BOLT |
| MINIMUM THREAD PENETRATION  | N/A  | 2-1/2"                         | 12 GAUGE                              | 2"   | N/A                            | 2-1/2"                                    | 12 GAUGE   | 2"  | N/A                                   | 2-1/2"   | 12 GAUGE                       |
| MINIMUM EDGE DISTANCE       | N/A  | 1-1/2"                         | 3/4"                                  | 3"   | N/A                            | 1-1/2"                                    | 3/4"   | 3"  | N/A                                   | 1-1/2"   | 3/4"                           |
| MINIMUM END DISTANCE        | N/A  | 2-5/8"                         | 3/4"                                  | 3"   | N/A                            | 2-5/8"                                    | 3/4"   | 3"  | N/A                                   | 2-5/8"   | 3/4"                           |
| MINIMUM SPACING             | N/A  | 1-1/2"                         | 3/4"                                  | 5"   | N/A                            | 1-1/2"                                    | 3/4"   | 5"  | N/A                                   | 1-1/2"   | 3/4"                           |

| INSTALLATION FASTENER QTY |                    |       |                    |       |             |       |              |       |                 |       |                  |       |
|---------------------------|--------------------|-------|--------------------|-------|-------------|-------|--------------|-------|-----------------|-------|------------------|-------|
| FAN MODEL                 | CURB TO FAN (ROOF) |       | CURB TO FAN (WALL) |       | WOOD (ORDF) |       | STEEL (ORDF) |       | CONCRETE (ORDF) |       | CONCRETE (OWALL) |       |
|                           | PER SIDE           | TOTAL | PER SIDE           | TOTAL | PER SIDE    | TOTAL | PER SIDE     | TOTAL | PER SIDE        | TOTAL | PER SIDE         | TOTAL |
| GV14                      | 3                  | 12    | 3                  | 12    | 3           | 12    | 3            | 12    | 3               | 12    | 3                | 12    |



**REVISIONS**

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CULVERS GOLF FL

4860 Woolbright Road,  
Golf, FL, 33436

DATE: 10/8/2025

DWG.#: 7432301

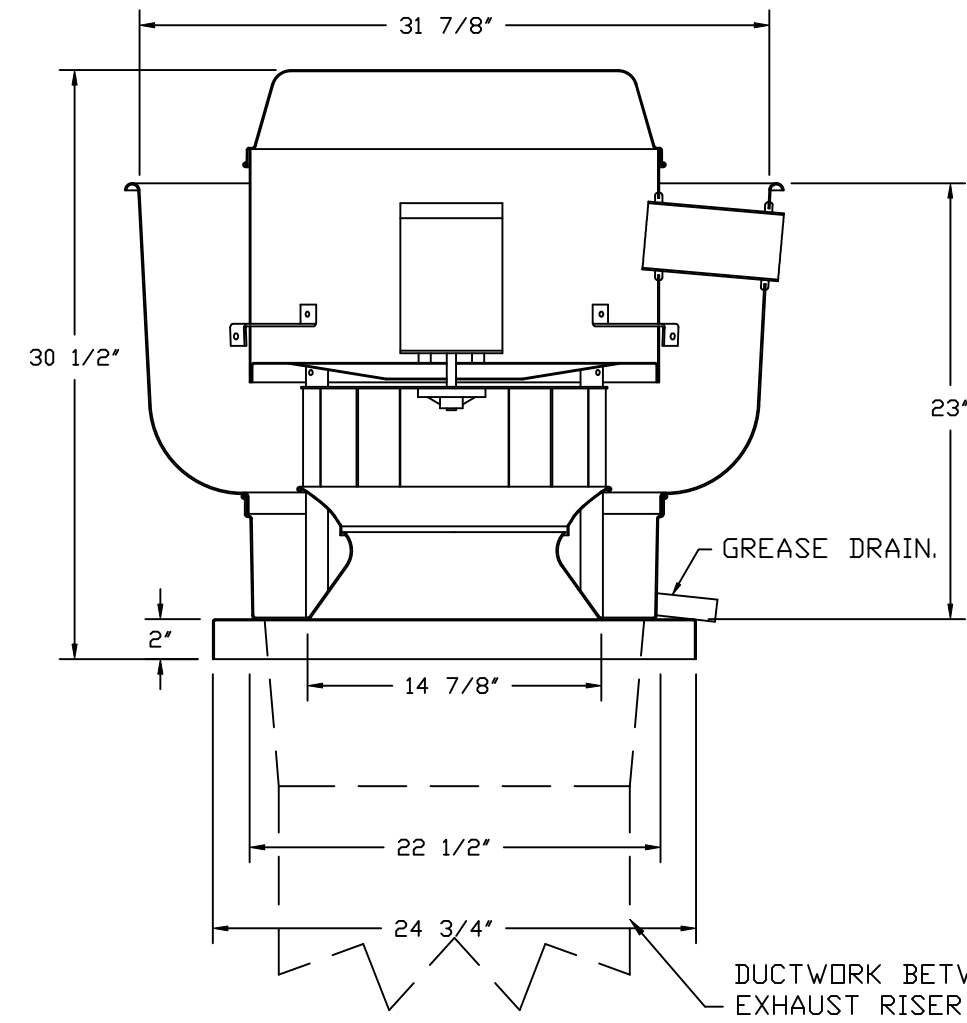
DRAWN BY: studdy jr

SCALE: 3/4" = 1'-0"

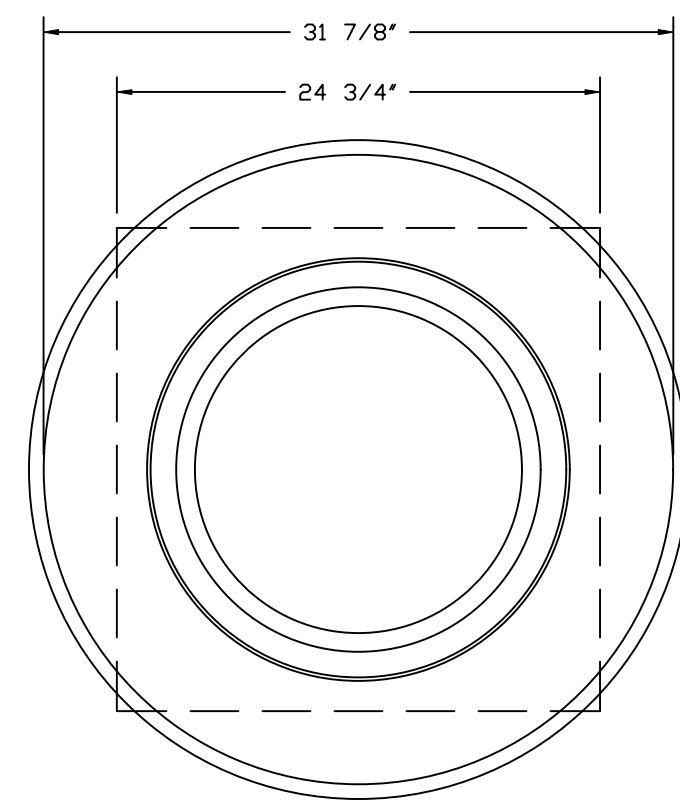
MASTER DRAWING

SHEET NO. 5

FANS #1 (PRV-2), #2 (PRV-3) - DUBSHFA EXHAUST FAN



DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**

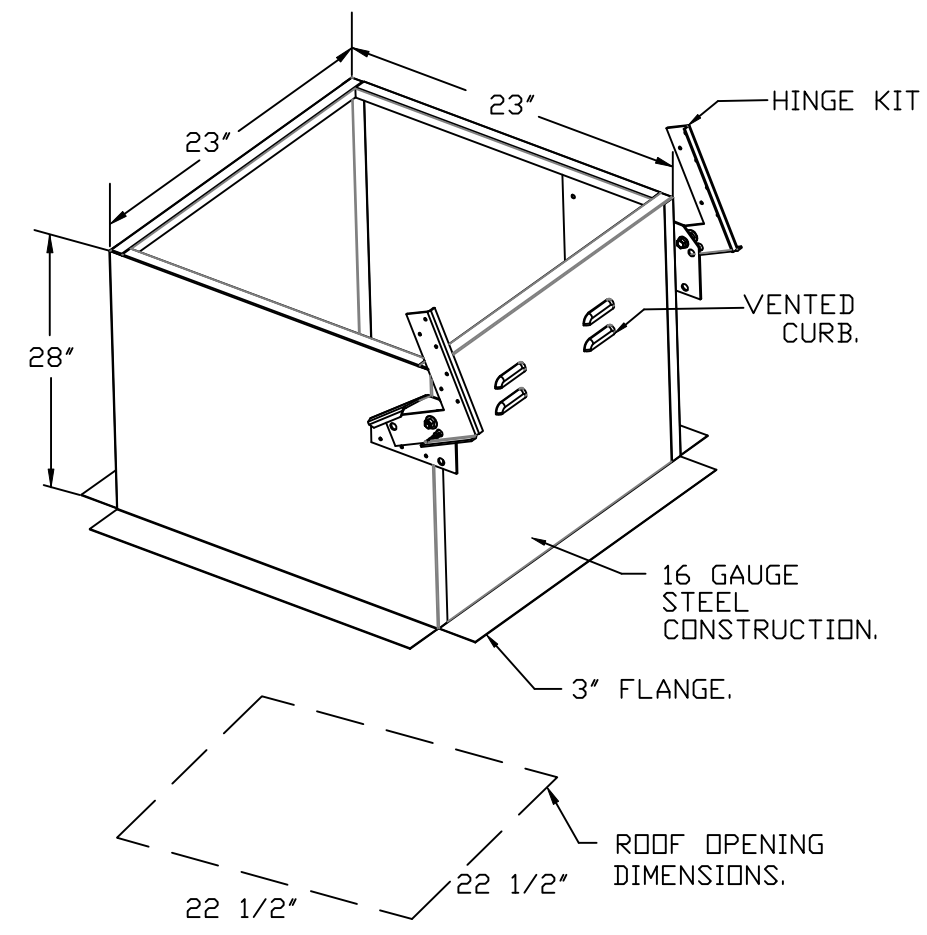
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**

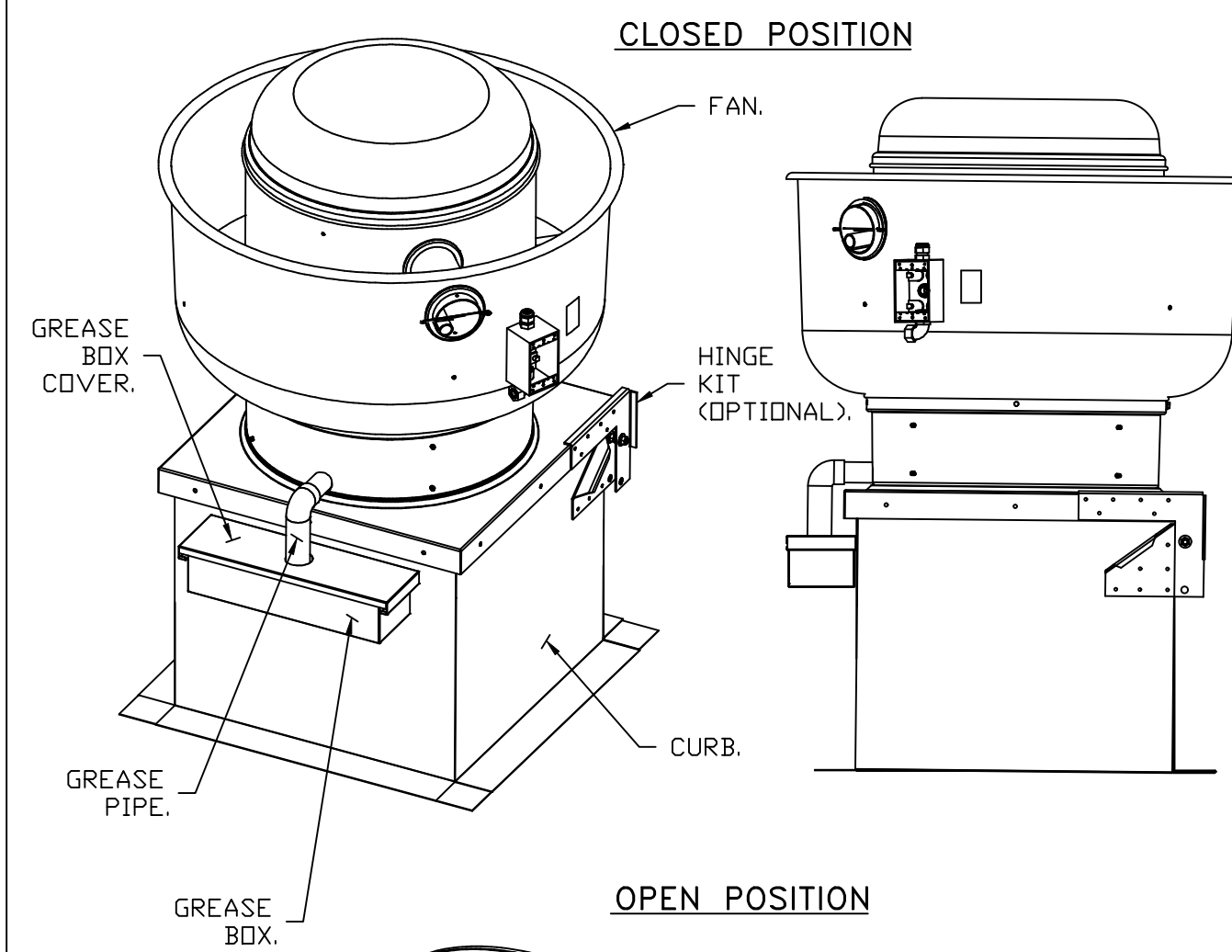
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR85HFA
- SHIP LADDER - FOR GREASE DUCTS.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL
- RTC - (TELED MOTOR), CCW ROTATION.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.



**GREASE BOX INSTALLATION**



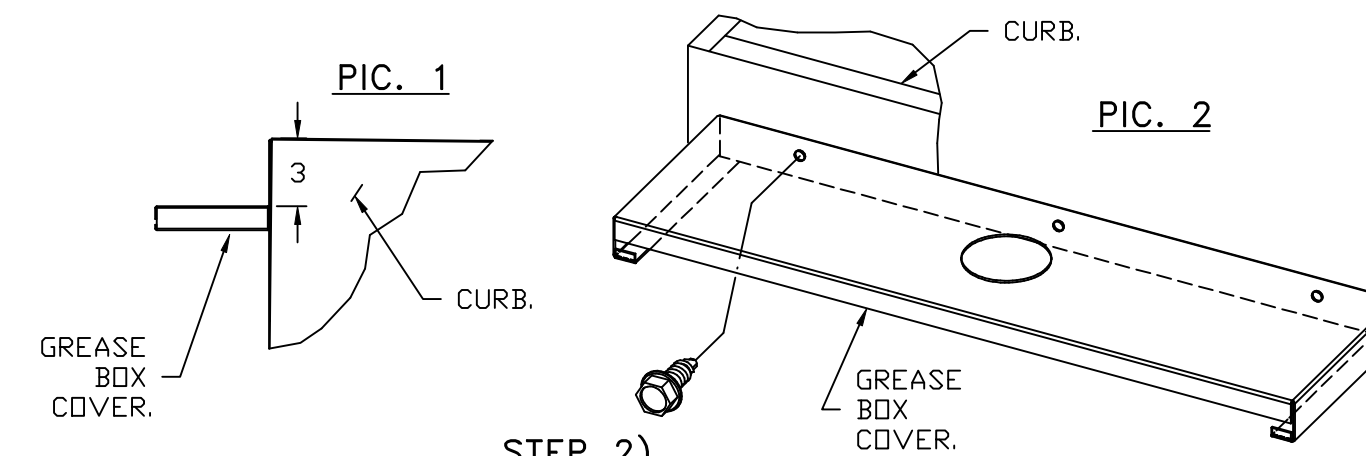
**PARTS INCLUDED**

- GREASE BOX.
- GREASE BOX COVER.
- GREASE PIPE.
- SHEET METAL SCREWS  
3 - LONG (3/4" LG.).

**GREASE BOX FIELD INSTALLATION**

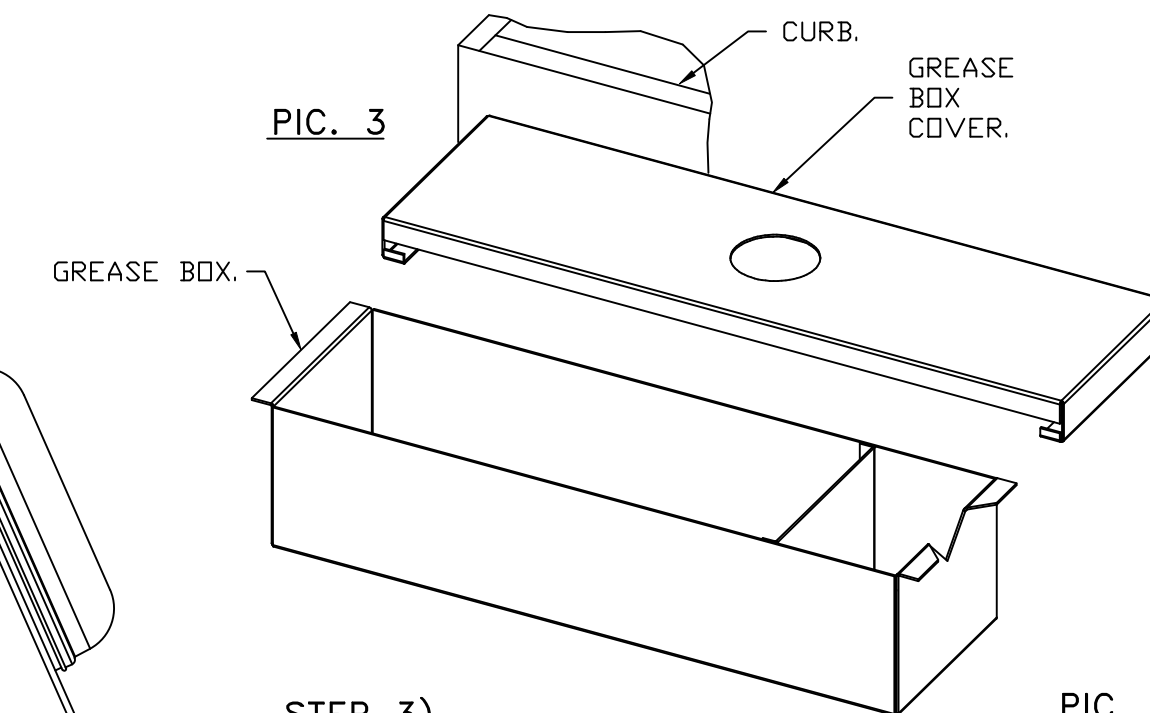
**STEP 1)**

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.



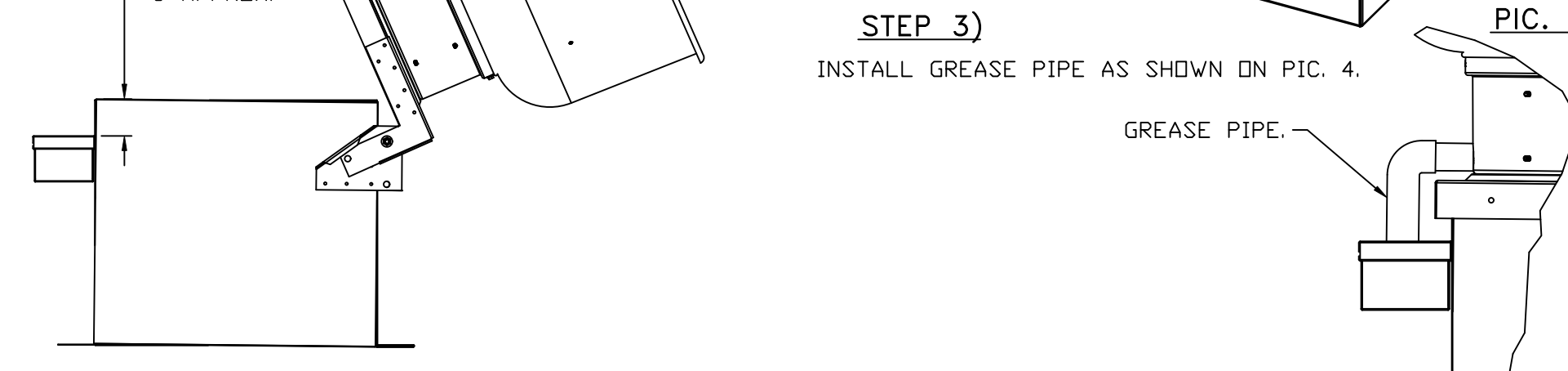
**STEP 2)**

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.



**STEP 3)**

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.



\*NOTE: UL 705 INSTALL.

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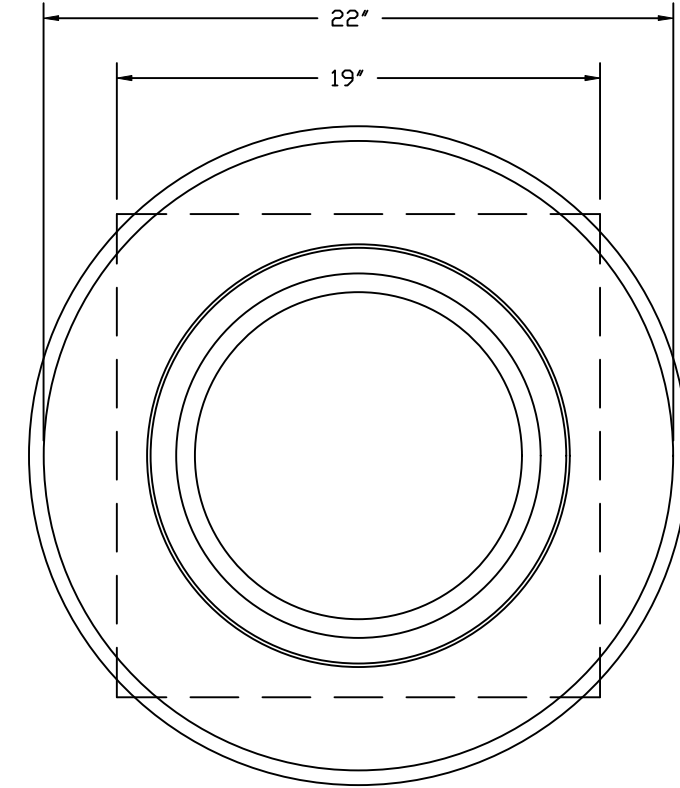
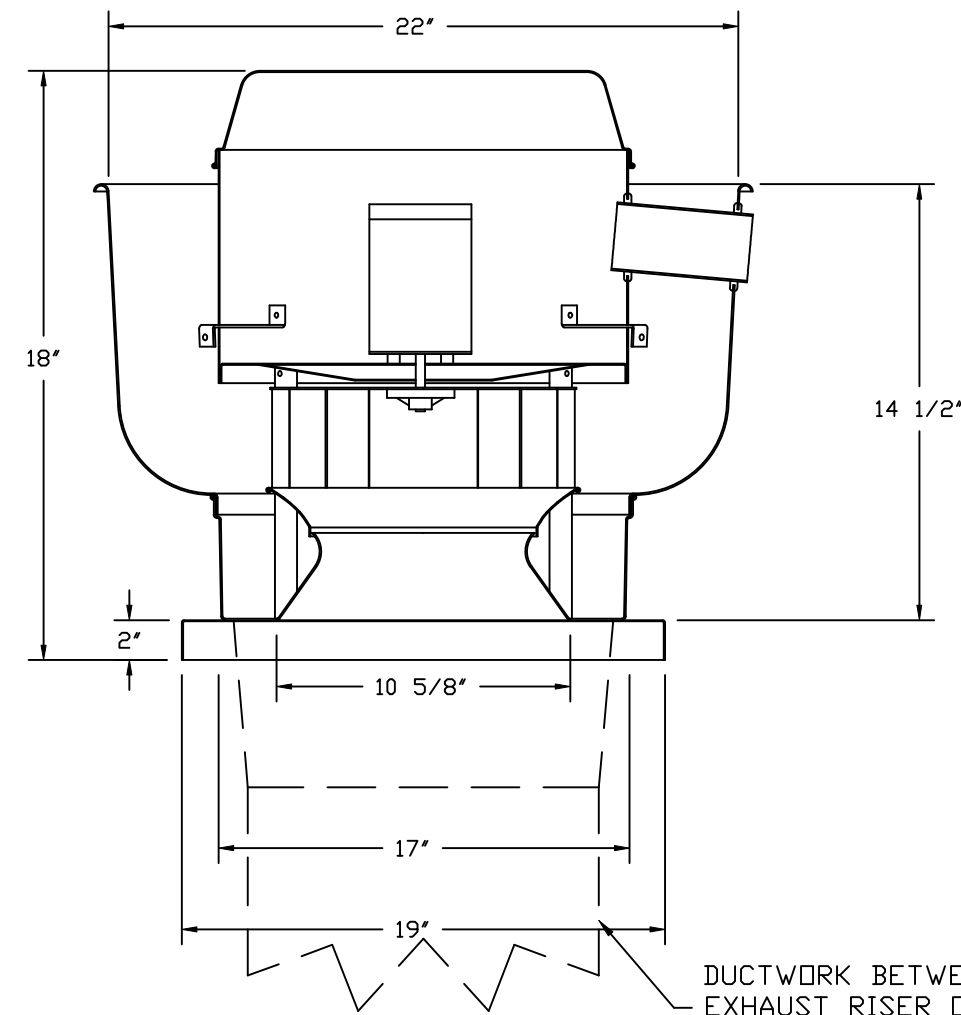
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Golf, FL, 33436

|                            |
|----------------------------|
| <b>DATE:</b> 10/8/2025     |
| <b>DWG.#:</b> 7432301      |
| <b>DRAWN BY:</b> sluddy jr |
| <b>SCALE:</b> 3/4" = 1'-0" |
| <b>MASTER DRAWING</b>      |

**SHEET NO.**  
6

FAN #3 DUI2HFA - EXHAUST FAN (PRV-4)



TOP VIEW

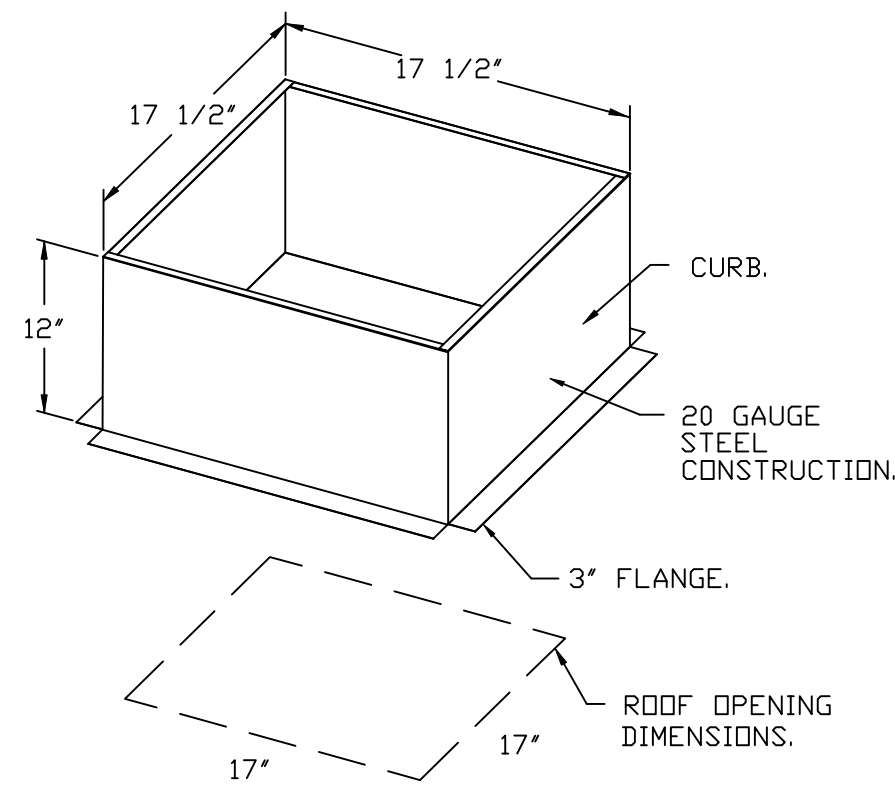
**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**OPTIONS**

- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.



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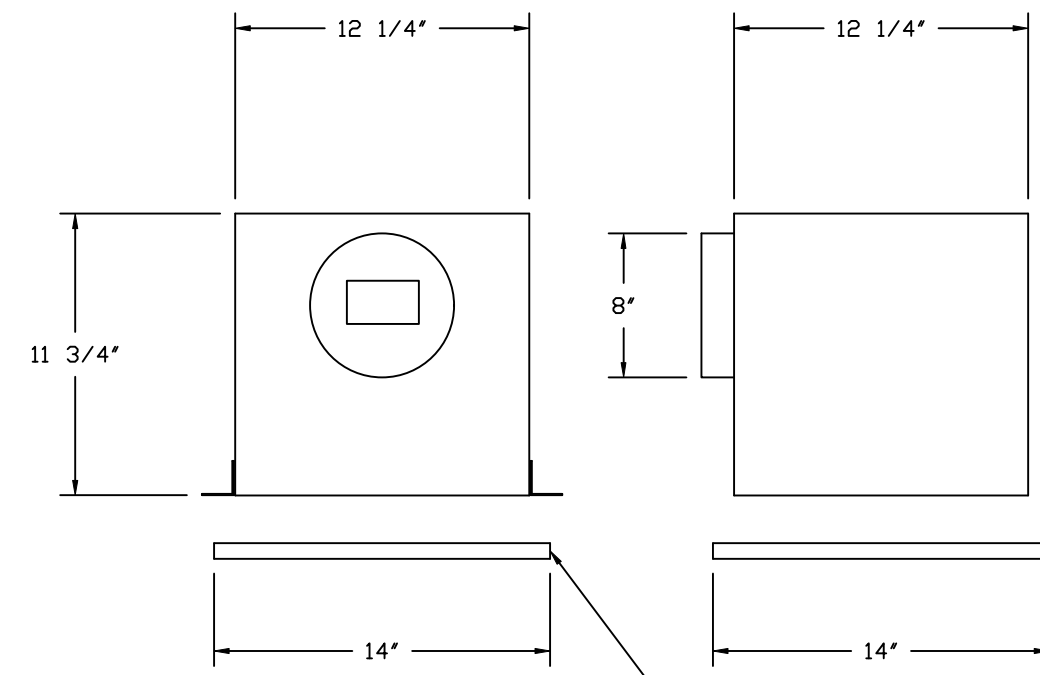
**DRAWN BY:** sluddy jr

**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
7

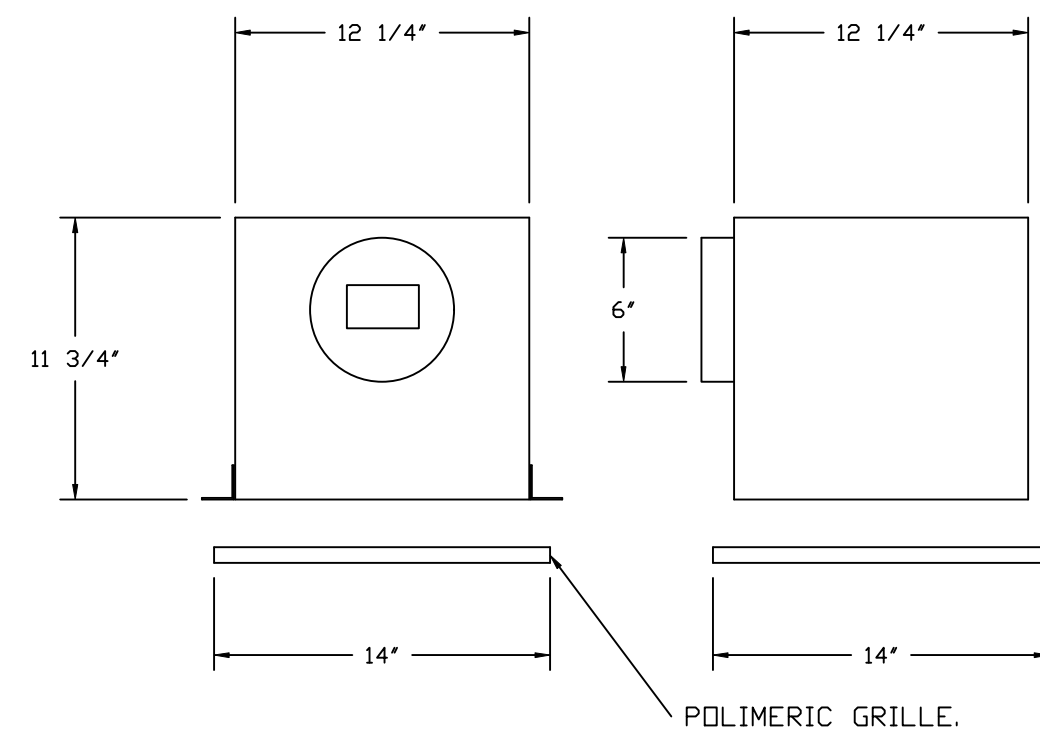
FAN #4 CFA 250CA - EXHAUST FAN (EF-1)



- FEATURES:**
- 1/2" ACOUSTIC HOUSING INSULATION.
  - 20 GA. GALVANIZED STEEL HOUSING.
  - PLUG TYPE DISCONNECT.
  - BUILT IN AUTOMATIC BACKDRAFT DAMPER.
  - AMCA SOUND & AIR CERTIFIED.
  - UL LISTED.
  - CAN BE INSTALLED IN CEILING OR WALL.
  - 8 POSITION MOUNTING BRACKETS.

- OPTIONS:**
- CEILING VIBRATION HANGERS.
  - FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS.
  - 2 YEAR PARTS WARRANTY.

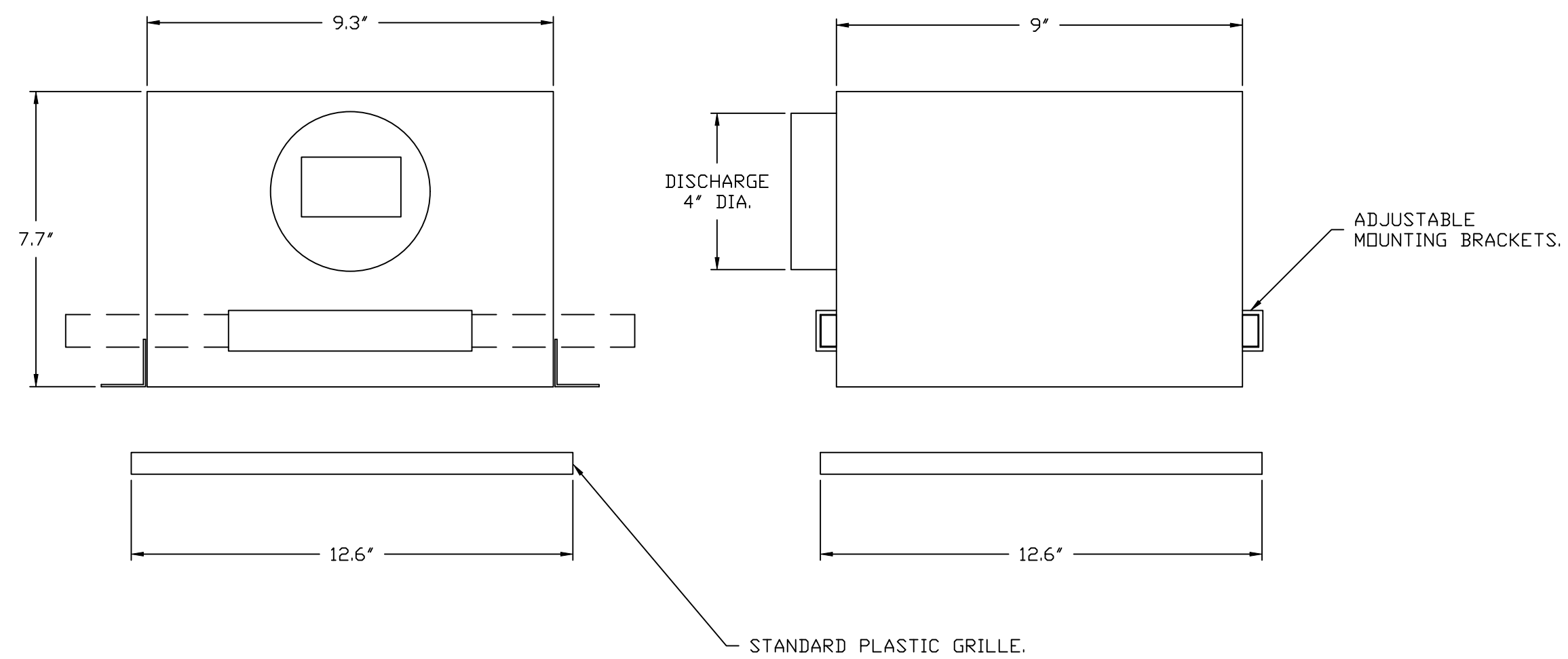
FAN #6 CFA 100CA - EXHAUST FAN (EF-3)



- FEATURES:**
- 1/2" ACOUSTIC HOUSING INSULATION.
  - 20 GA. GALVANIZED STEEL HOUSING.
  - PLUG TYPE DISCONNECT.
  - BUILT IN AUTOMATIC BACKDRAFT DAMPER.
  - AMCA SOUND & AIR CERTIFIED.
  - UL LISTED.
  - CAN BE INSTALLED IN CEILING OR WALL.
  - 8 POSITION MOUNTING BRACKETS.

- OPTIONS:**
- MGI - METAL GRILLE KIT.
  - CEILING VIBRATION HANGERS.
  - 2 YEAR PARTS WARRANTY.

FAN #5 CFA-S70-CA - EXHAUST FAN (EF-2)

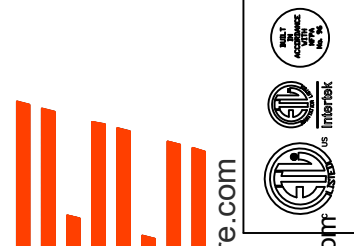


- FEATURES:**
- 20 GA. GALVANIZED STEEL HOUSING.
  - PLUG TYPE DISCONNECT.
  - BUILT IN AUTOMATIC BACKDRAFT DAMPER.
  - UL LISTED.
  - MOUNTING BRACKETS.

- OPTIONS:**
- FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
  - CEILING VIBRATION HANGERS.
  - 2 YEAR PARTS WARRANTY.

**REVISIONS**

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**DATE:** 10/8/2025

**DWG.#:**  
7432301

**DRAWN BY:** sluddy jr

**SCALE:**  
3/4" = 1'-0"

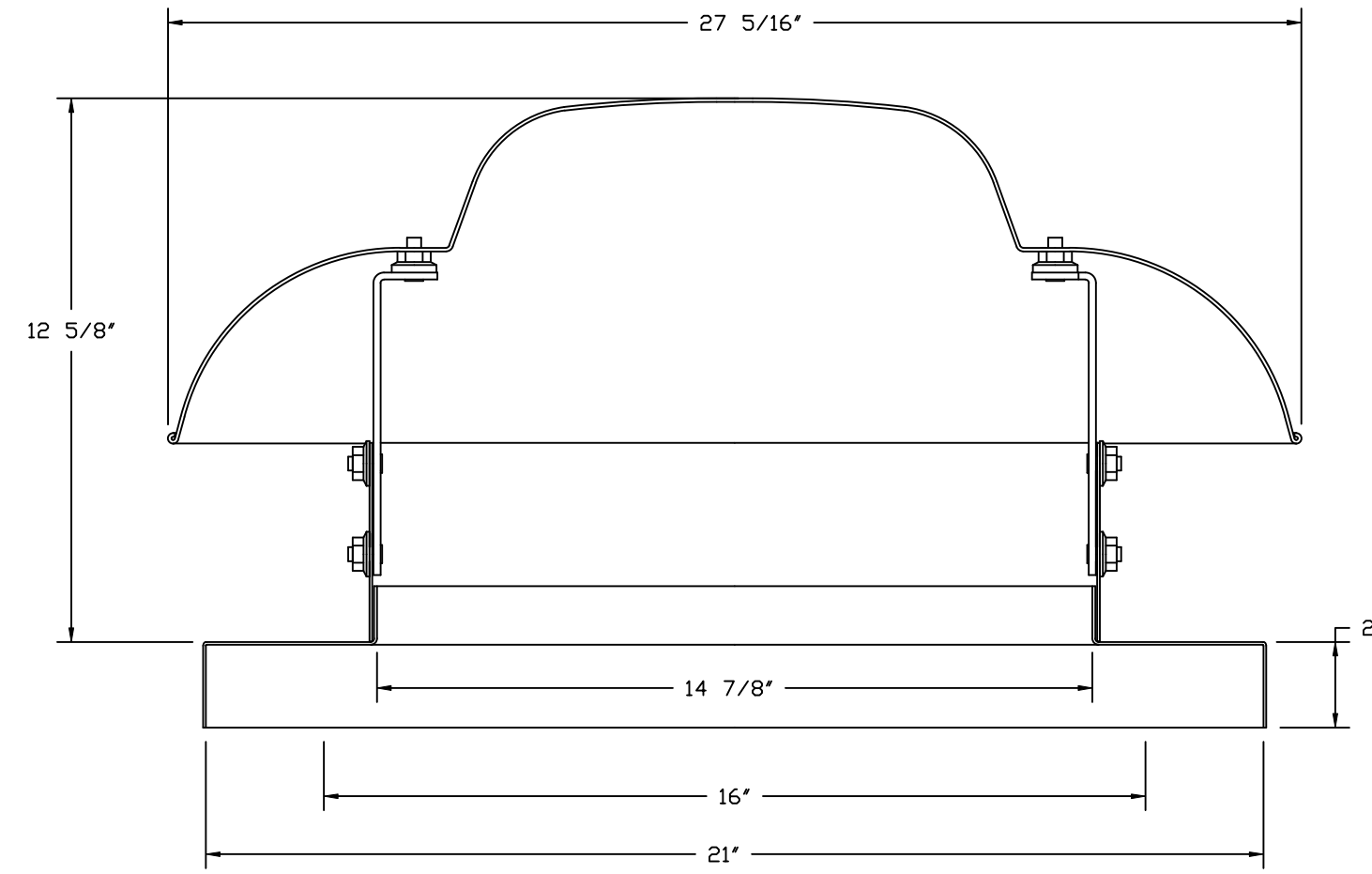
**MASTER DRAWING**

**SHEET NO.**  
8

**GRAVITY VENT(S) - Job#7432301**

GRAVITY\_VENT\_#1 - GV14 (GRV-D) - EXHAUST

| PART# | GRAVITY VENT TYPE | THROAT AREA (SQFT) | THROAT VELOCITY (FPM) | FREE AREA (SQFT) | FREE AREA VELOCITY (FPM) | DESIGN CFM |
|-------|-------------------|--------------------|-----------------------|------------------|--------------------------|------------|
| 1     | EXHAUST           | 1.200              | 175                   | 2.860            | 73                       | 210        |



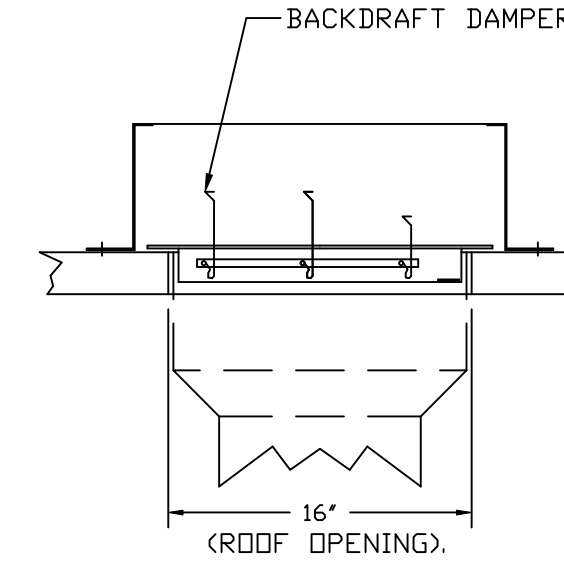
- FEATURES:**
- RROOF/WALL MOUNT GRAVITY VENT.
  - STANDARD BIRD SCREEN.

**OPTIONS**

GRAVITY BACK DRAFT DAMPER - WITH FLANGE, DAMPER IS 15" SQ., 2" DEEP, D.D. OF FLANGE IS 17" SQ.

MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +150 / -150 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. RROOF & WALL MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 20 GAUGE ALUMINIZED. RROOF & WALL MOUNT EXHAUST CURBS ABOVE 20" HIGH UP TO 42" HIGH MUST BE 18 GAUGE ALUMINIZED.

**BACKDRAFT DAMPER INSTALLATION**



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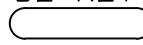
**SCALE:**  
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**MASTER DRAWING**

**SHEET NO.**  
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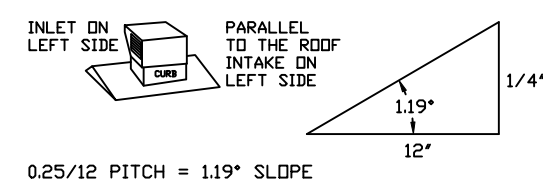
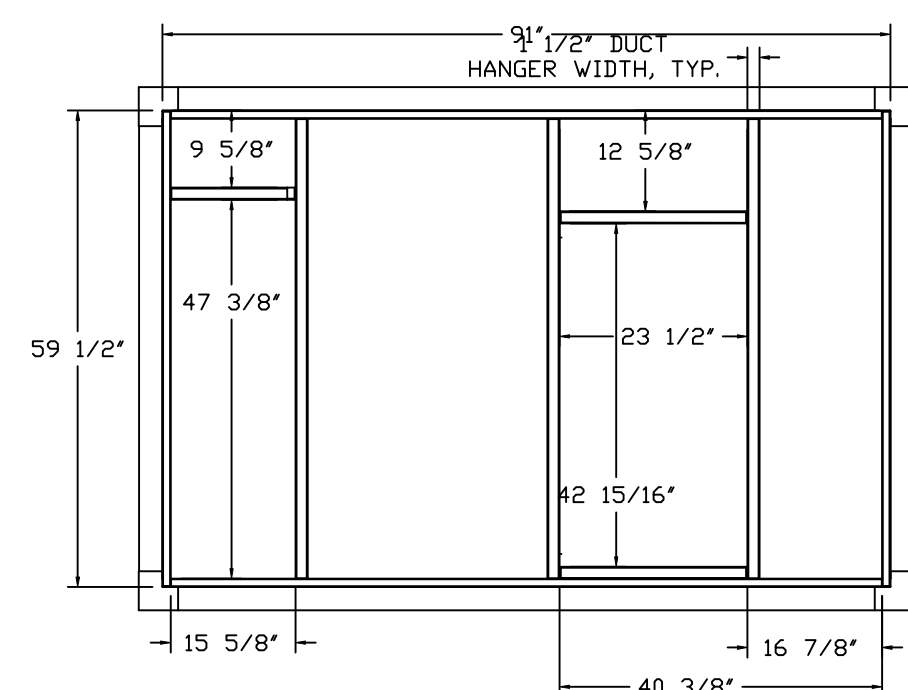
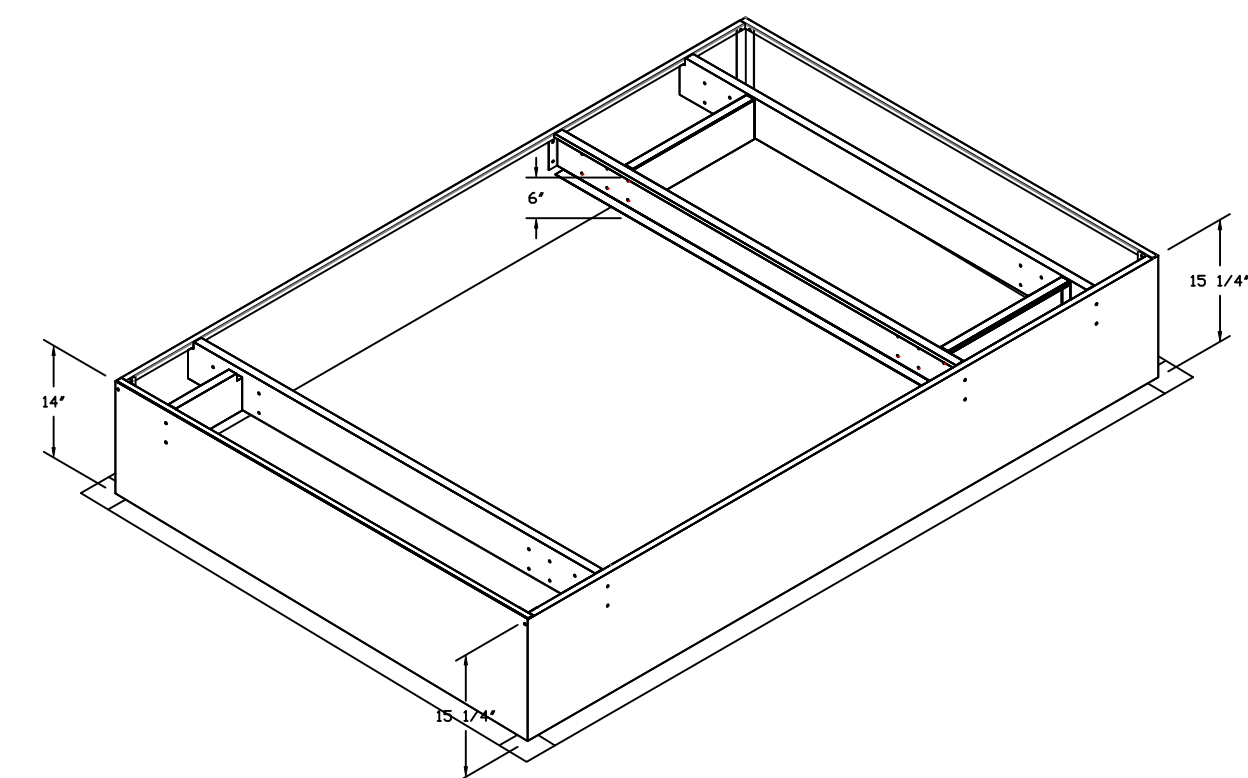
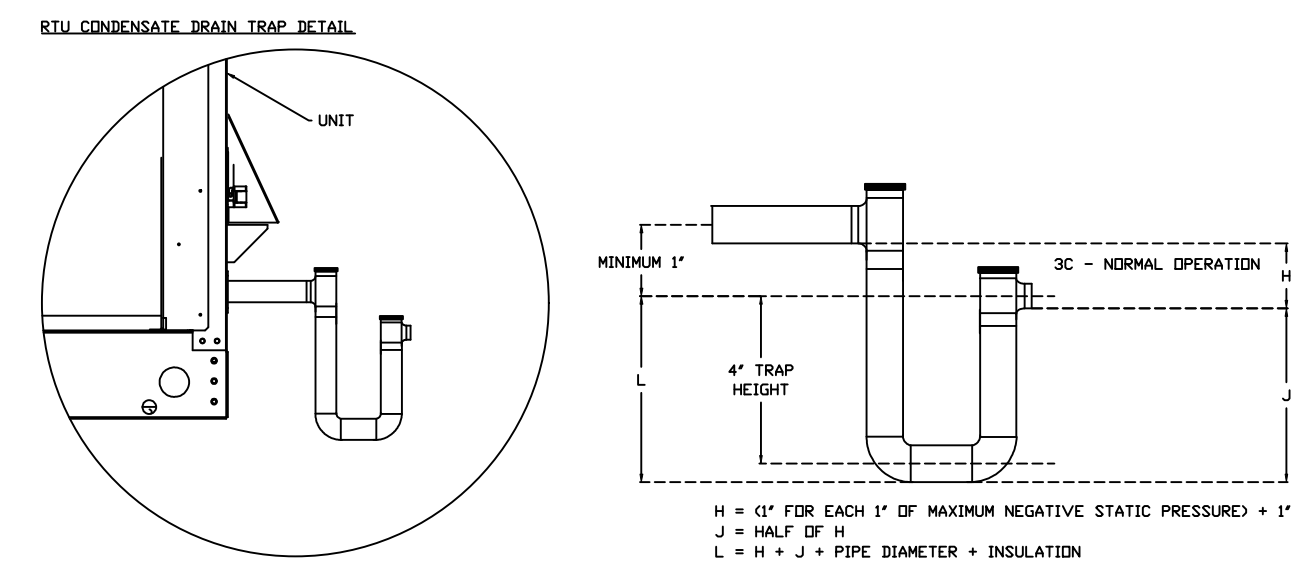
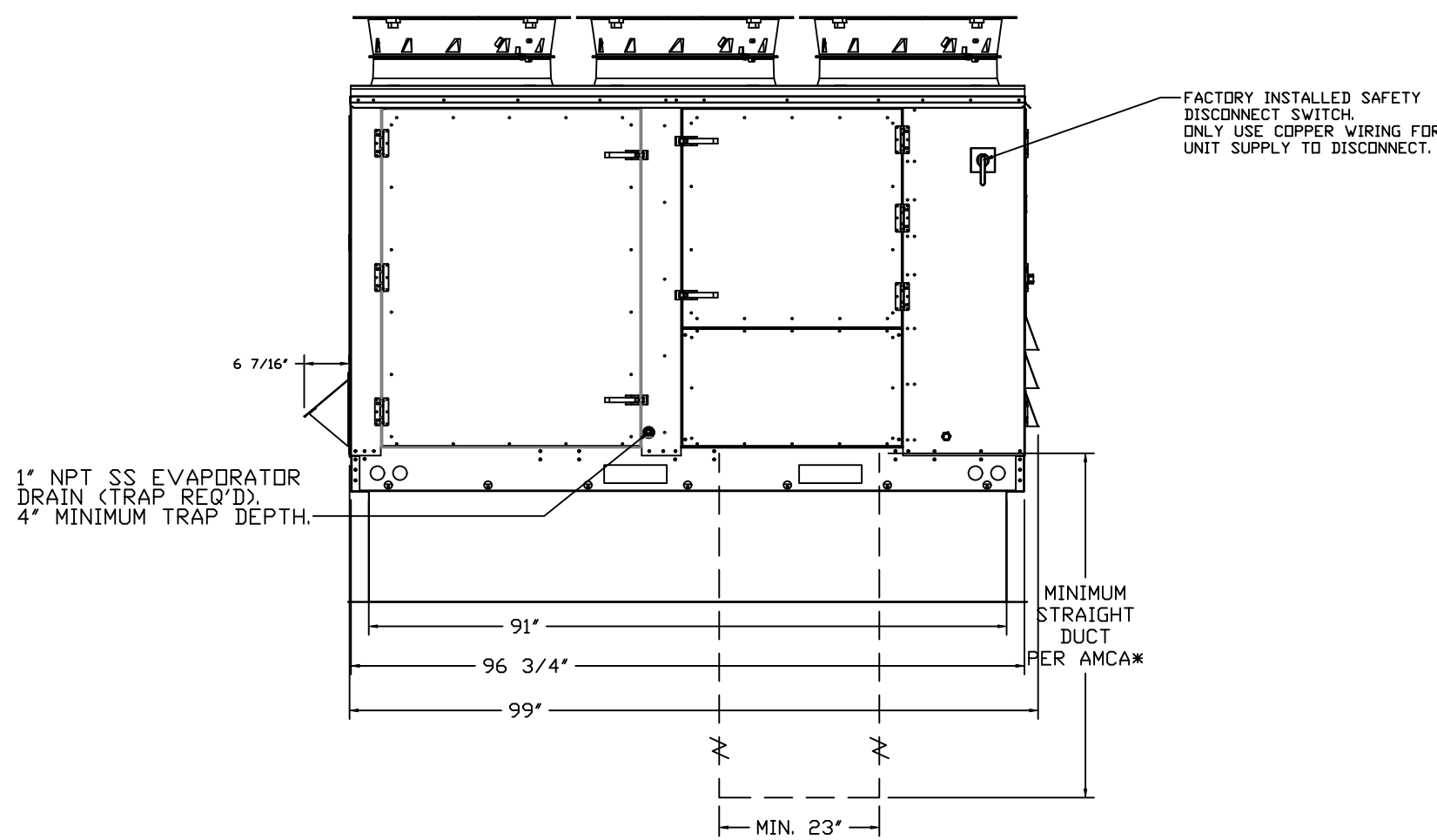
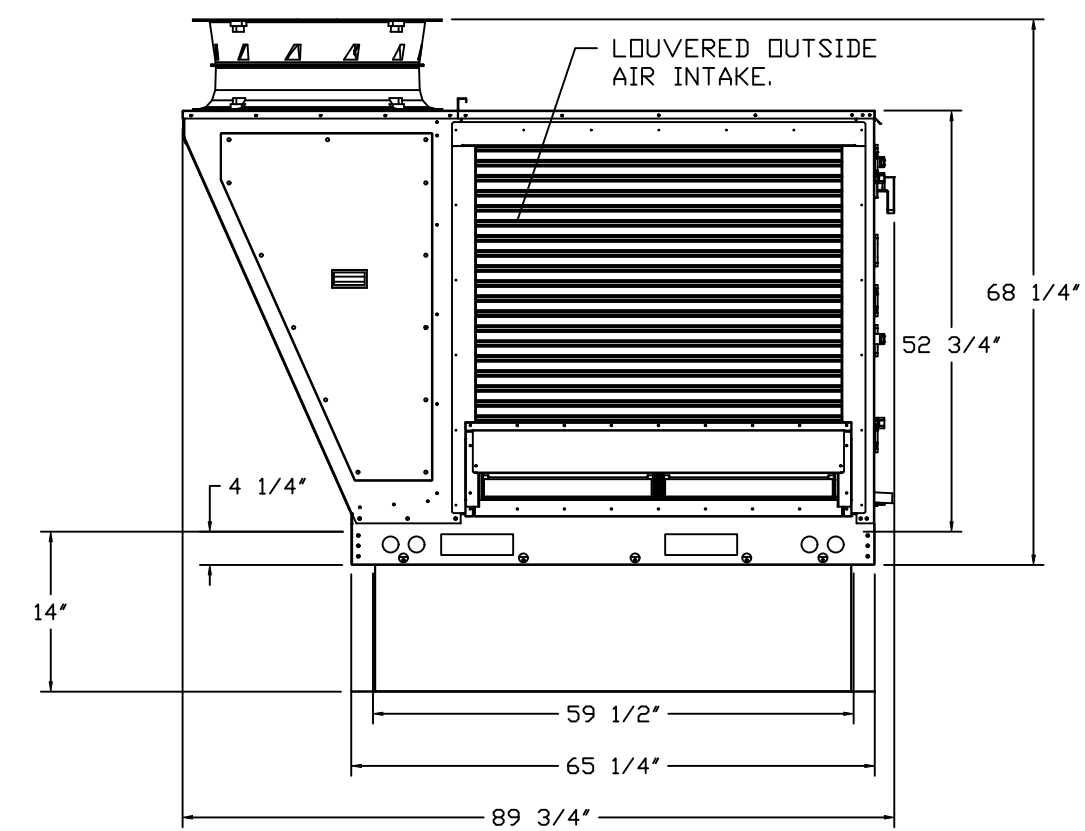
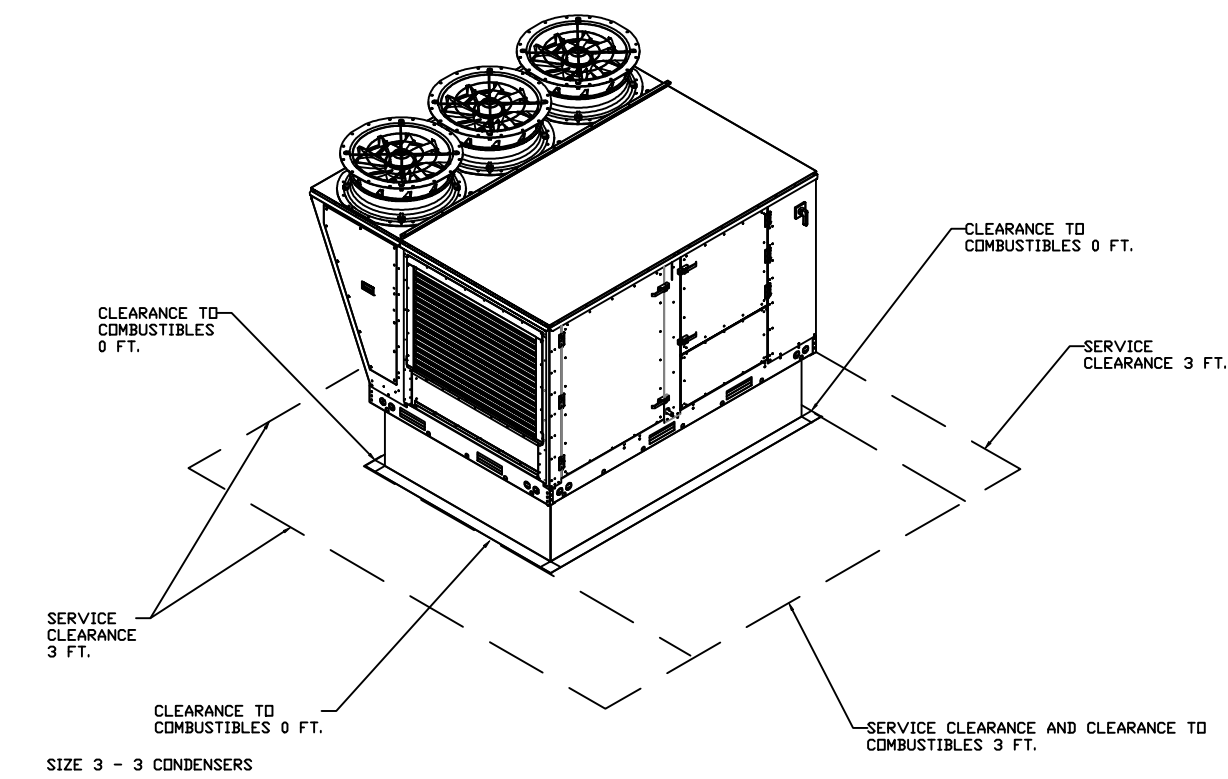
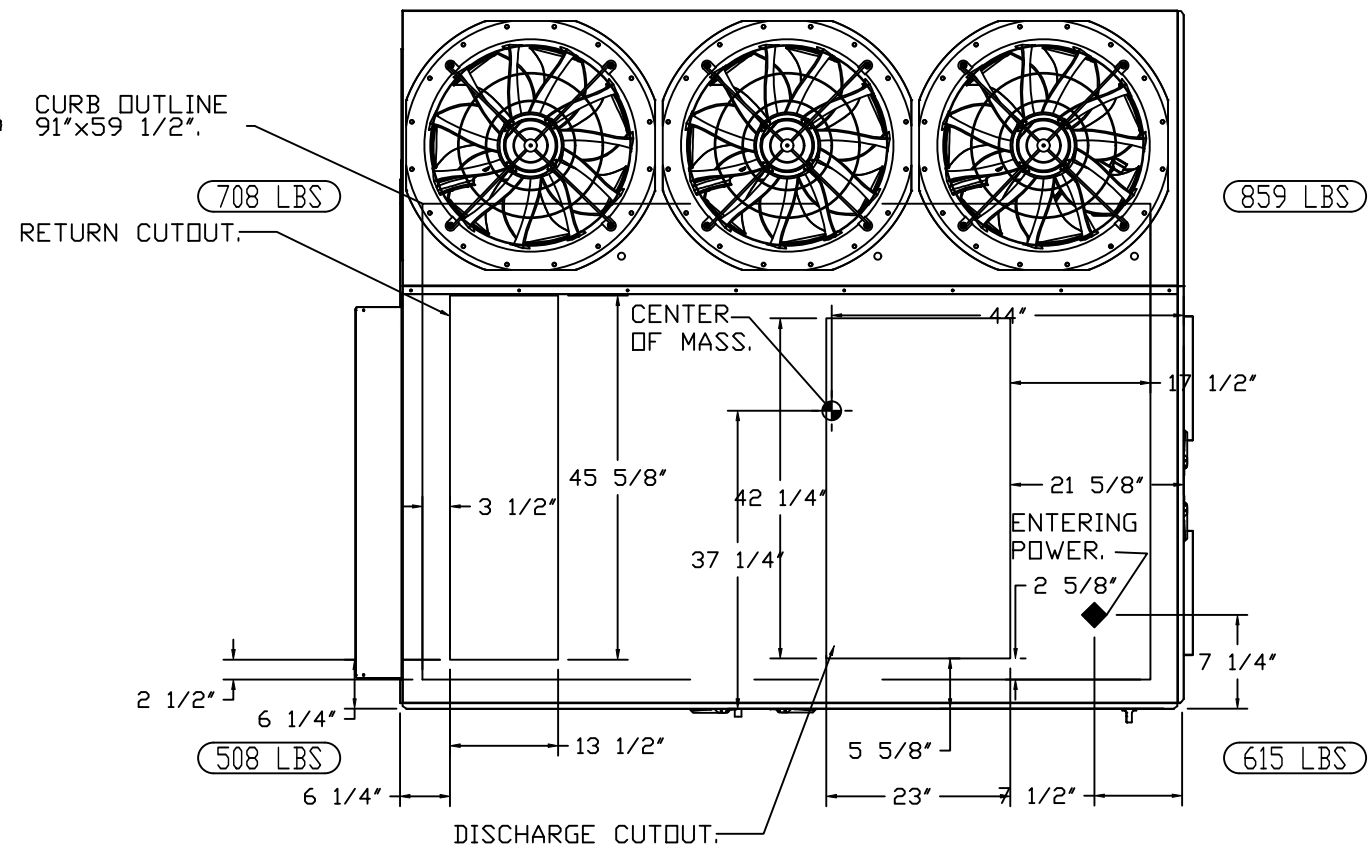
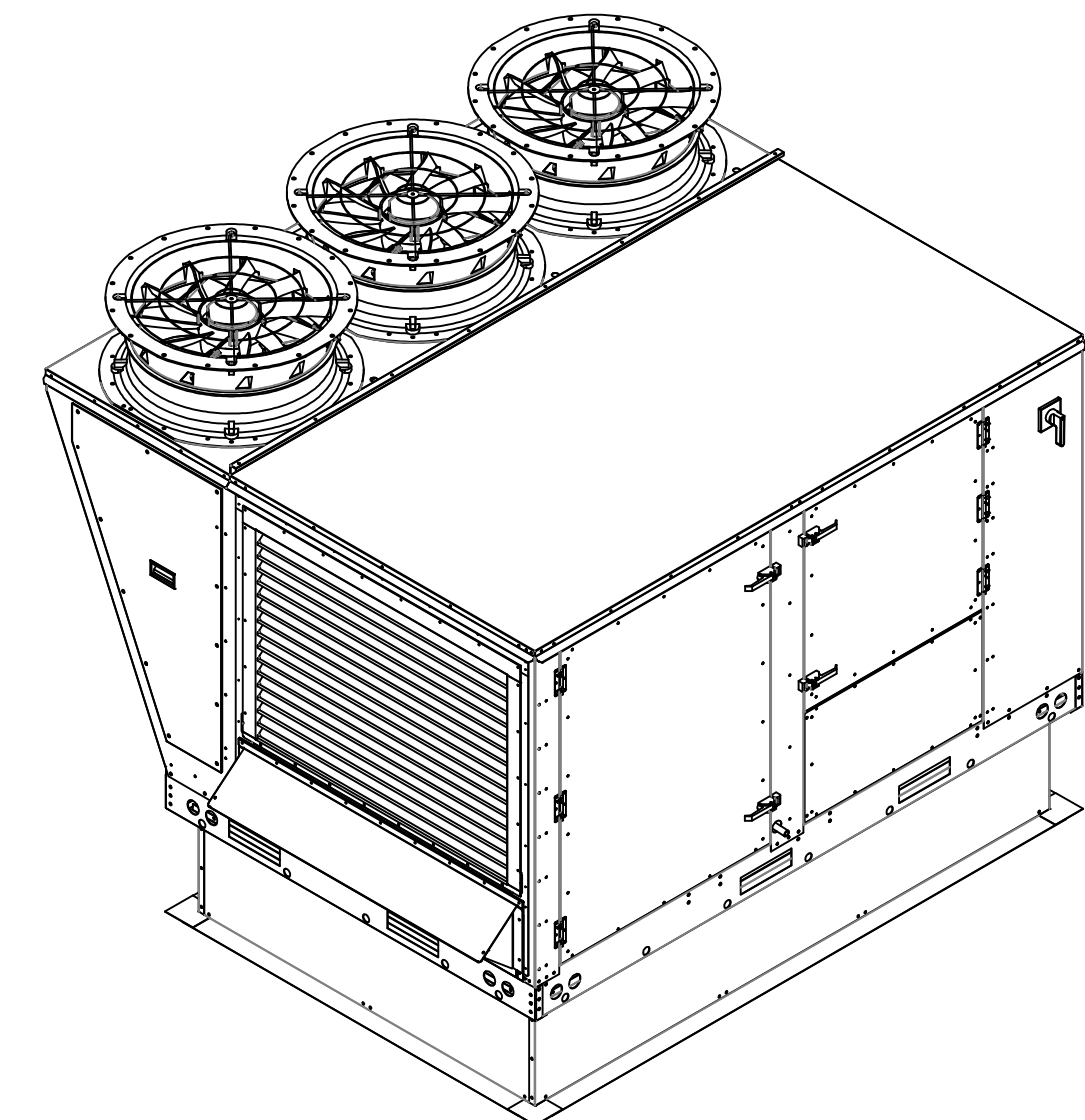
FAN #7 CAS-HVAC3-E.602-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

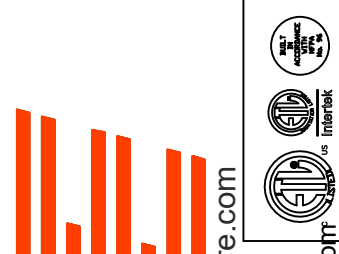
\*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.  
 SUGGESTED SUPPLY STRAIGHT DUCT SIZE IS 23" x 39".  
 SUGGESTED RETURN STRAIGHT DUCT SIZE IS 45-5/8" x 13-1/2".



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 239 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 882-3100 FAX: 9192275913 EMAIL: reg60@captiveaire.com  
 www.captiveaire.com

CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

DATE: 10/8/2025

DWG.#: 7432301

DRAWN BY: sluddy jr

SCALE: 1/2" = 1'-0"

MASTER DRAWING

SHEET NO.

FAN #8 CAS-HVAC3-E.452-24MF-20T - HEATER (RTU-2 KITCHEN)

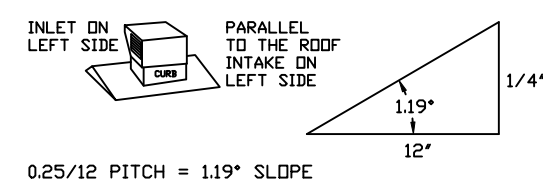
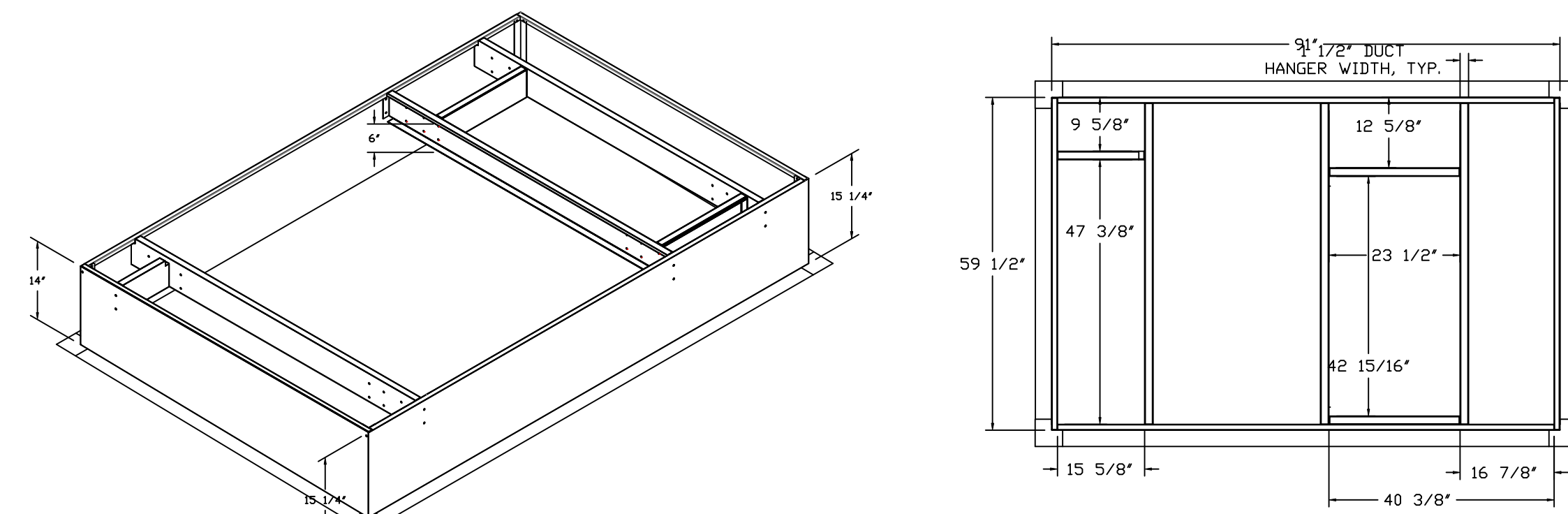
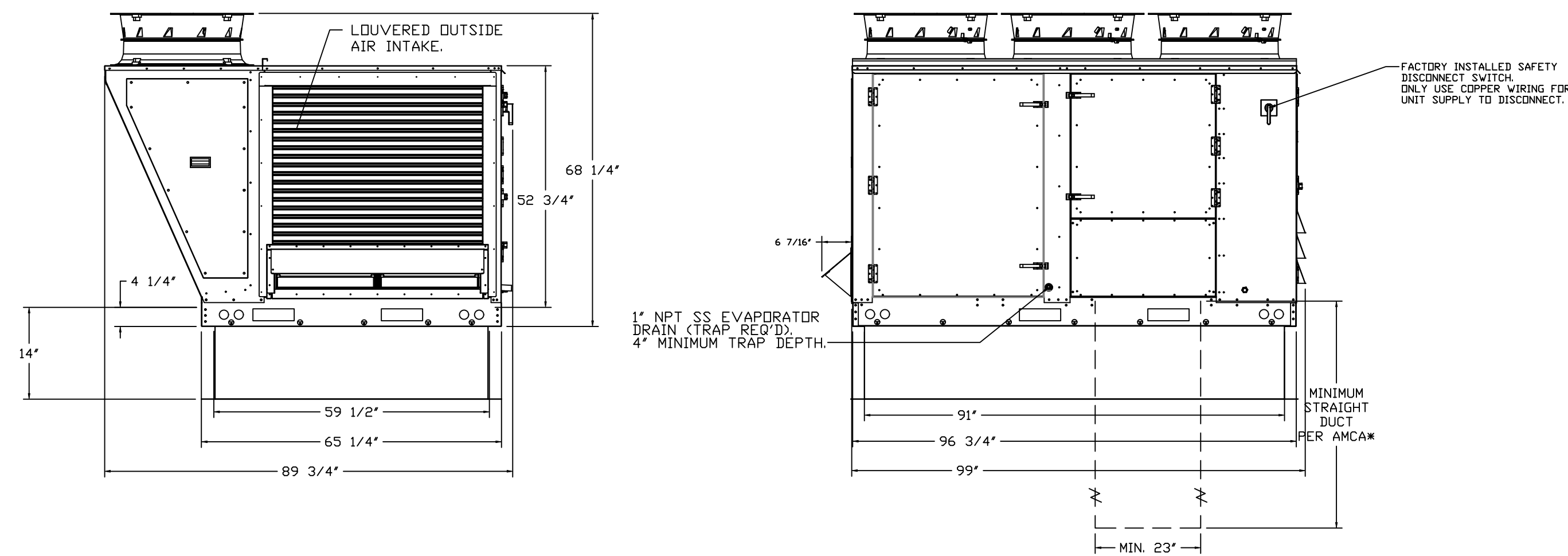
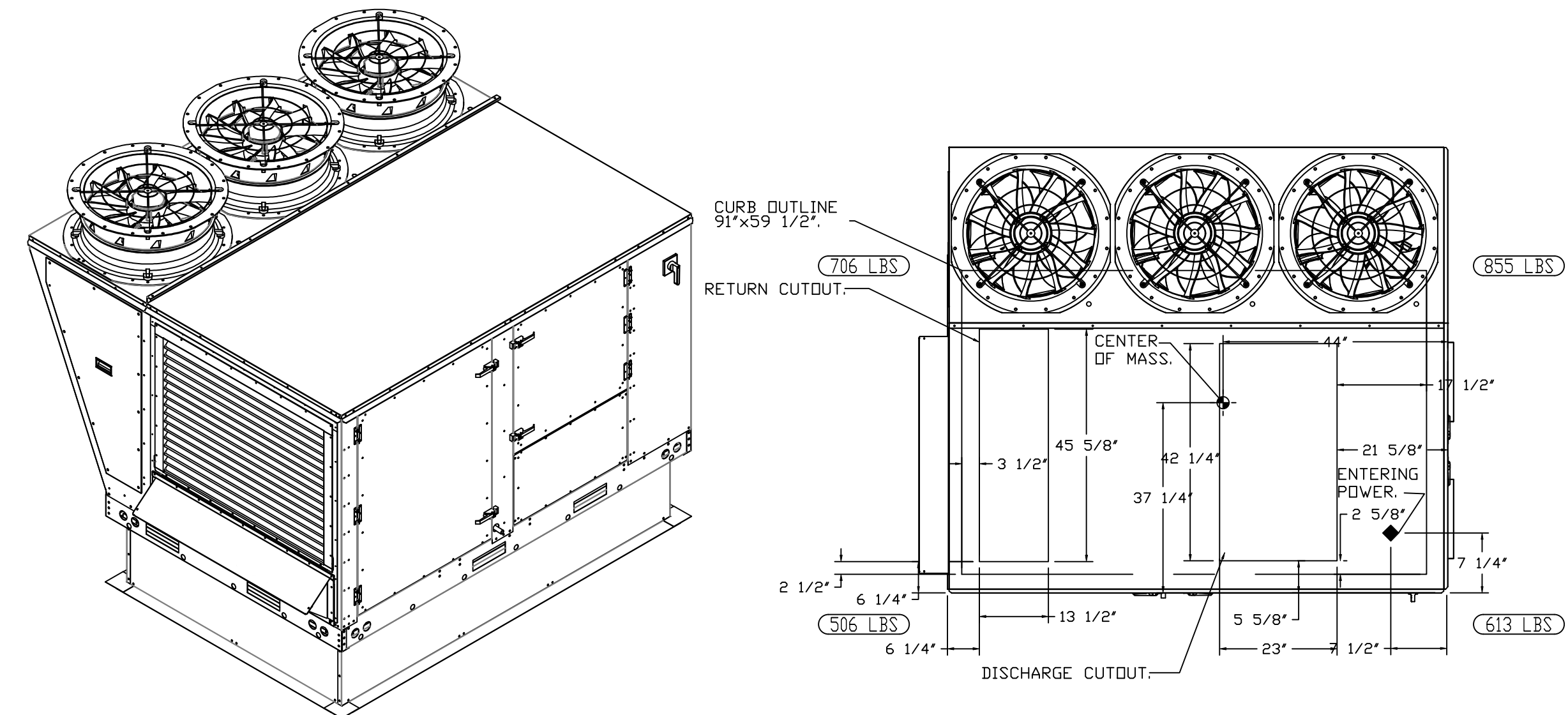
NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
- DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

\*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

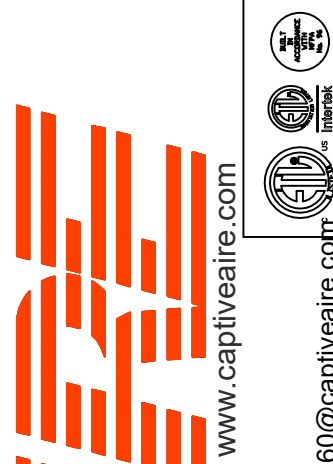
**\*NOTE: THIS UNIT IS INTENDED TO SERVE IN PLACE OF THE KITCHEN HVAC ROOF TOP UNIT (RTU) IN ADDITION TO PROVIDING APPROPRIATE MAKE-UP AIR FOR THE KITCHEN HOOD(S). RTU AND ASSOCIATED DUCTWORK SHALL BE REMOVED FROM SCOPE UNLESS REQUIRED FOR INTERNAL LOAD ESTIMATES. FINAL DESIGN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.**

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.  
 SUGGESTED SUPPLY STRAIGHT DUCT SIZE IS 23" x 39".  
 SUGGESTED RETURN STRAIGHT DUCT SIZE IS 45-5/8" x 13-1/2".



REVISIONS

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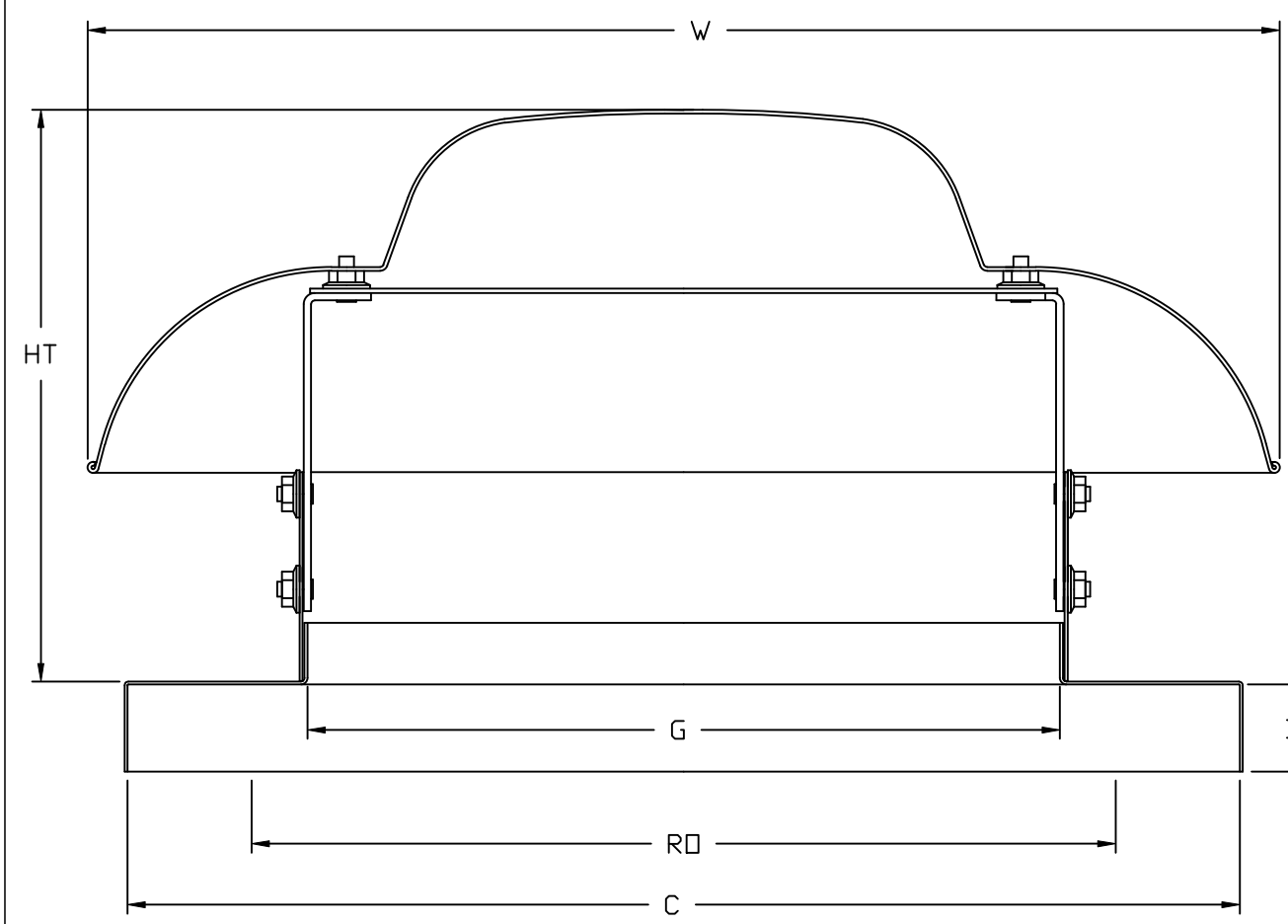
DRAWN BY: studdy jr

SCALE:  
 1/2" = 1'-0"

MASTER DRAWING

SHEET NO.

GV SERIES NON-MOTORIZED GRAVITY VENT



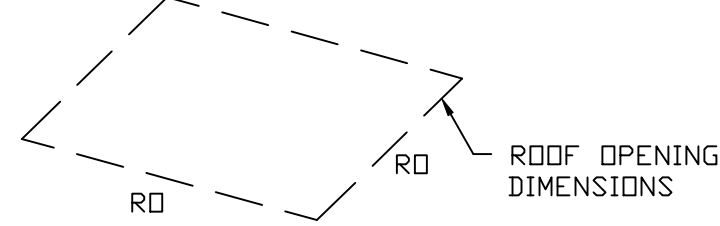
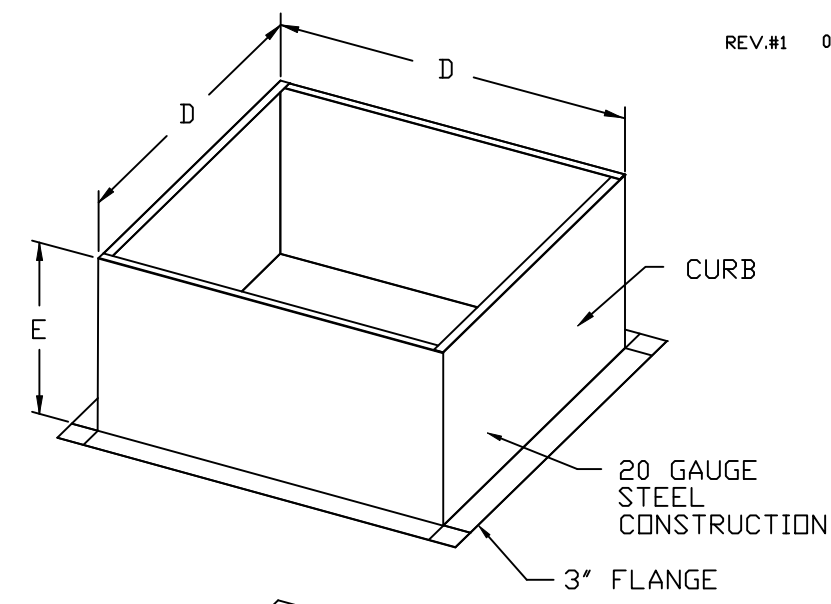
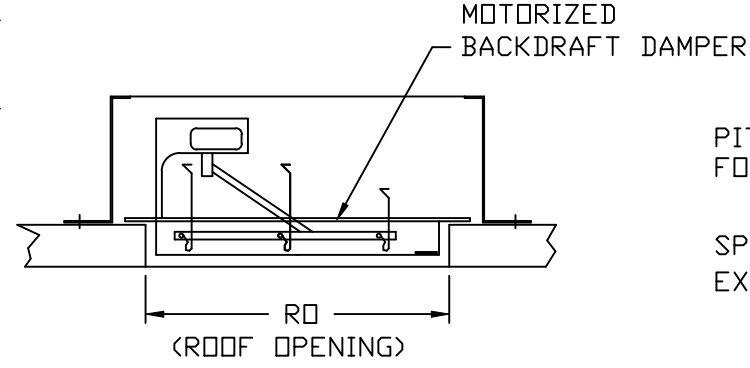
FEATURES:

- ROOF/WALL MOUNT GRAVITY VENT
- STANDARD BIRD SCREEN

OPTIONS:

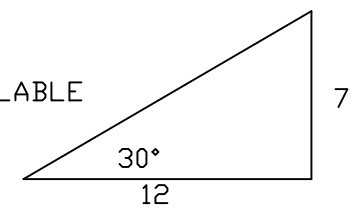
- MOTORIZED BACKDRAFT DAMPER
- HINGED FAN
- PITCHED CURB
- INSULATED CURB

BACKDRAFT DAMPER INSTALLATION (OPTIONAL)



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE



CURB DIMENSIONAL DATA

| MODEL | D       | E   |
|-------|---------|-----|
| GV10  | 17 1/2" | 12" |
| GV12  | 17 1/2" | 12" |
| GV14  | 19 1/2" | 12" |
| GV18  | 24 1/2" | 12" |
| GV20  | 26 1/2" | 12" |
| GV24  | 31 1/2" | 12" |
| GV30  | 38 1/2" | 12" |
| GV36  | 42 1/2" | 12" |

GV NON-MOTORIZED GRAVITY UNITS DIMENSIONAL DATA

| MODEL | HT      | W         | B  | C   | G       | RD  | WEIGHT LB |
|-------|---------|-----------|----|-----|---------|-----|-----------|
| GV10  | 9 3/4"  | 18 5/16"  | 2" | 19" | 10 7/8" | 13" | 28        |
| GV12  | 10 1/4" | 20 5/16"  | 2" | 19" | 12 7/8" | 13" | 32        |
| GV14  | 12 5/8" | 27 5/16"  | 2" | 21" | 14 7/8" | 16" | 37        |
| GV18  | 14 3/8" | 33 9/16"  | 2" | 26" | 18 7/8" | 20" | 52        |
| GV20  | 15 1/8" | 38 15/16" | 2" | 28" | 18"     | 24" | 72        |
| GV24  | 16 3/4" | 43 7/16"  | 2" | 33" | 23 5/8" | 28" | 90        |
| GV30  | 18 7/8" | 52 13/16" | 2" | 40" | 23 5/8" | 36" | 182       |
| GV36  | 22 3/8" | 63 5/16"  | 2" | 44" | 30"     | 40" | 195       |

GV  
REV. #1 08/21/2014

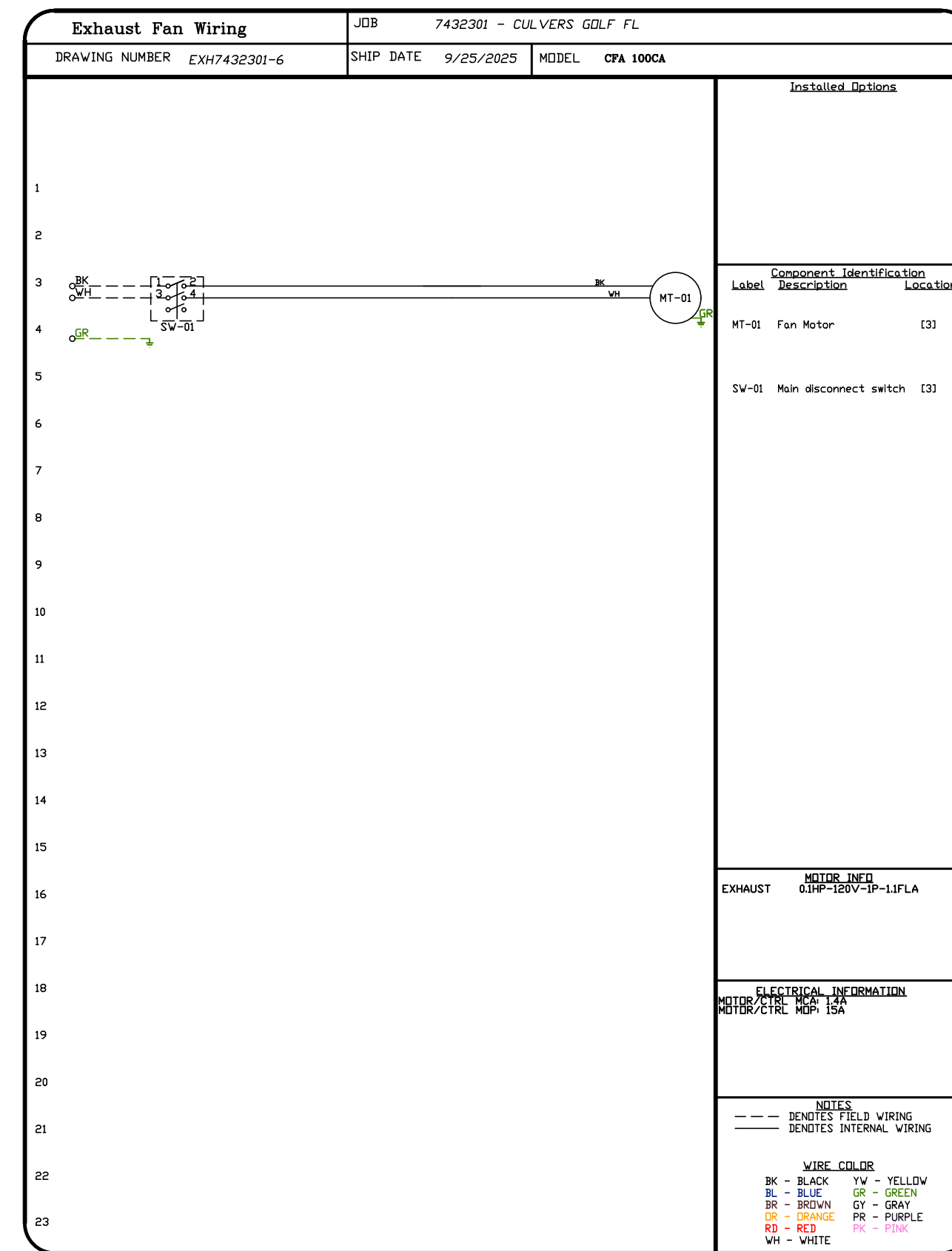
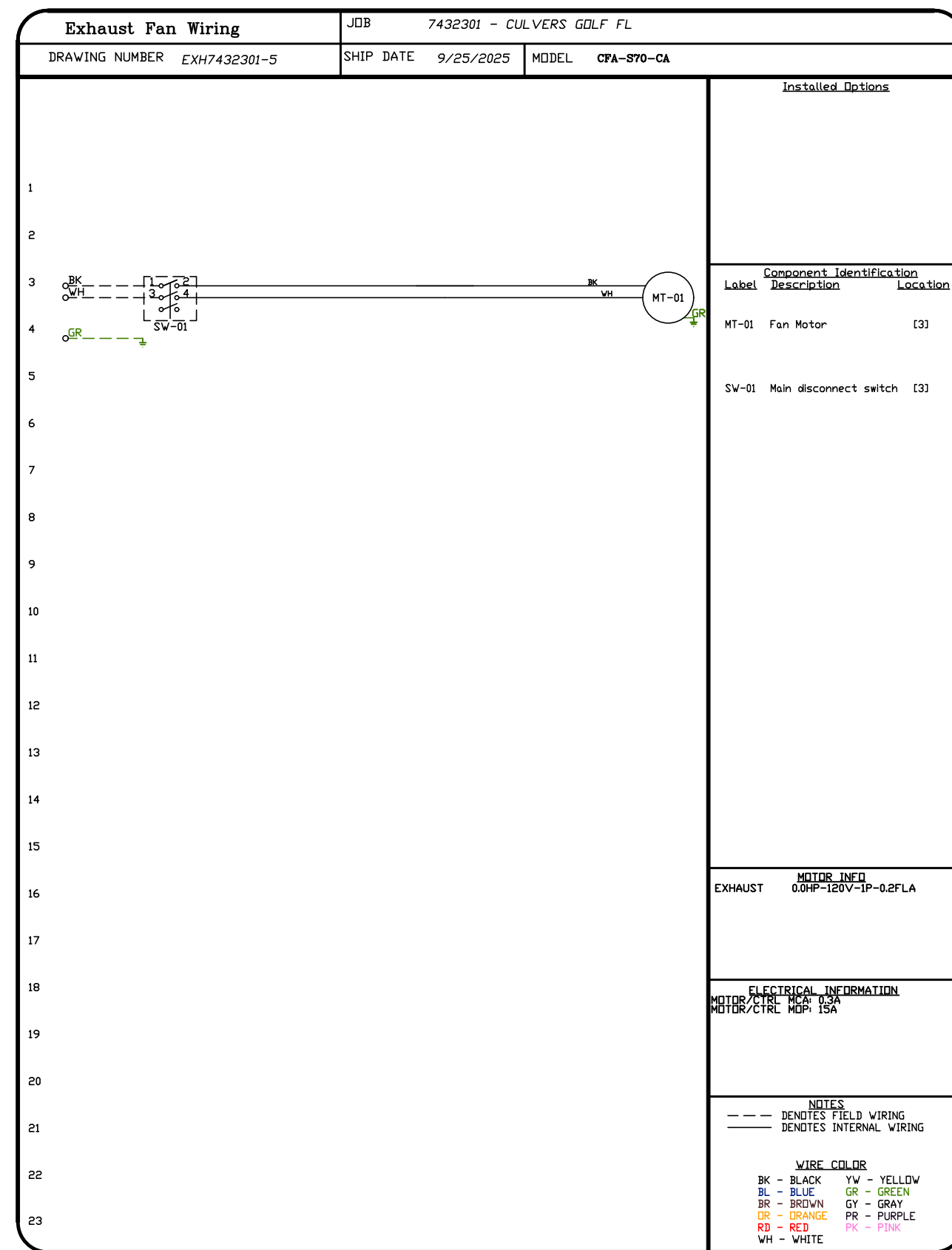
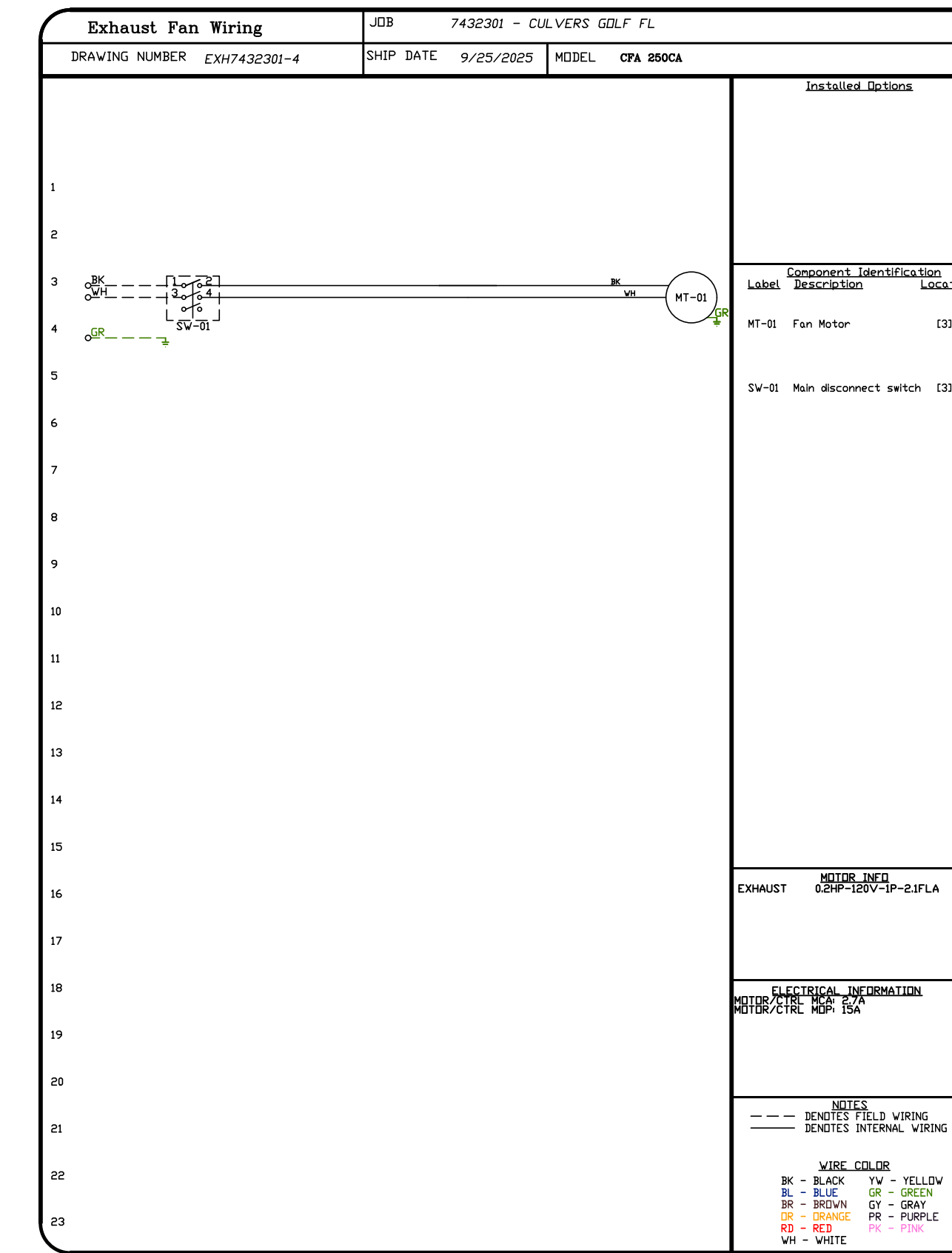
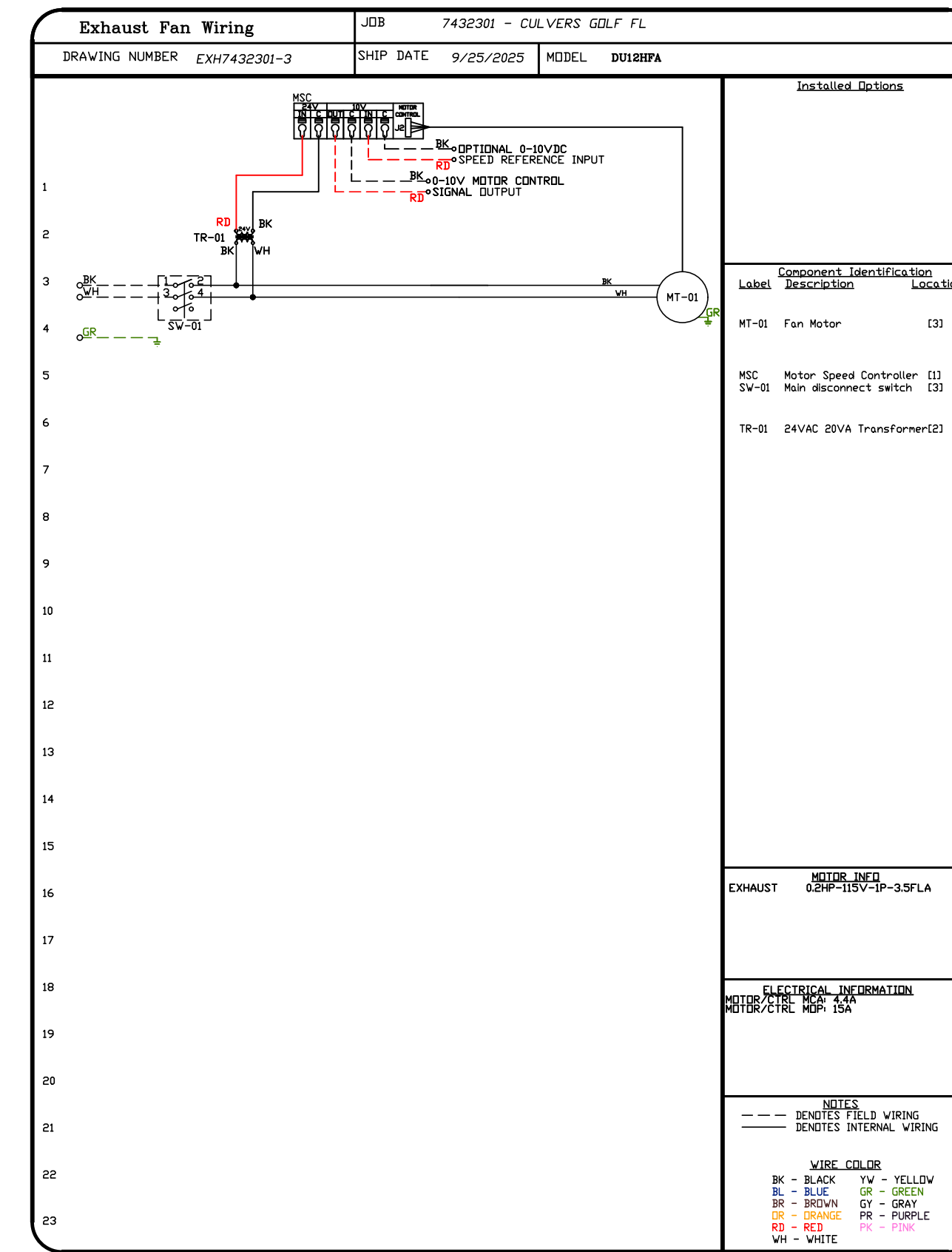
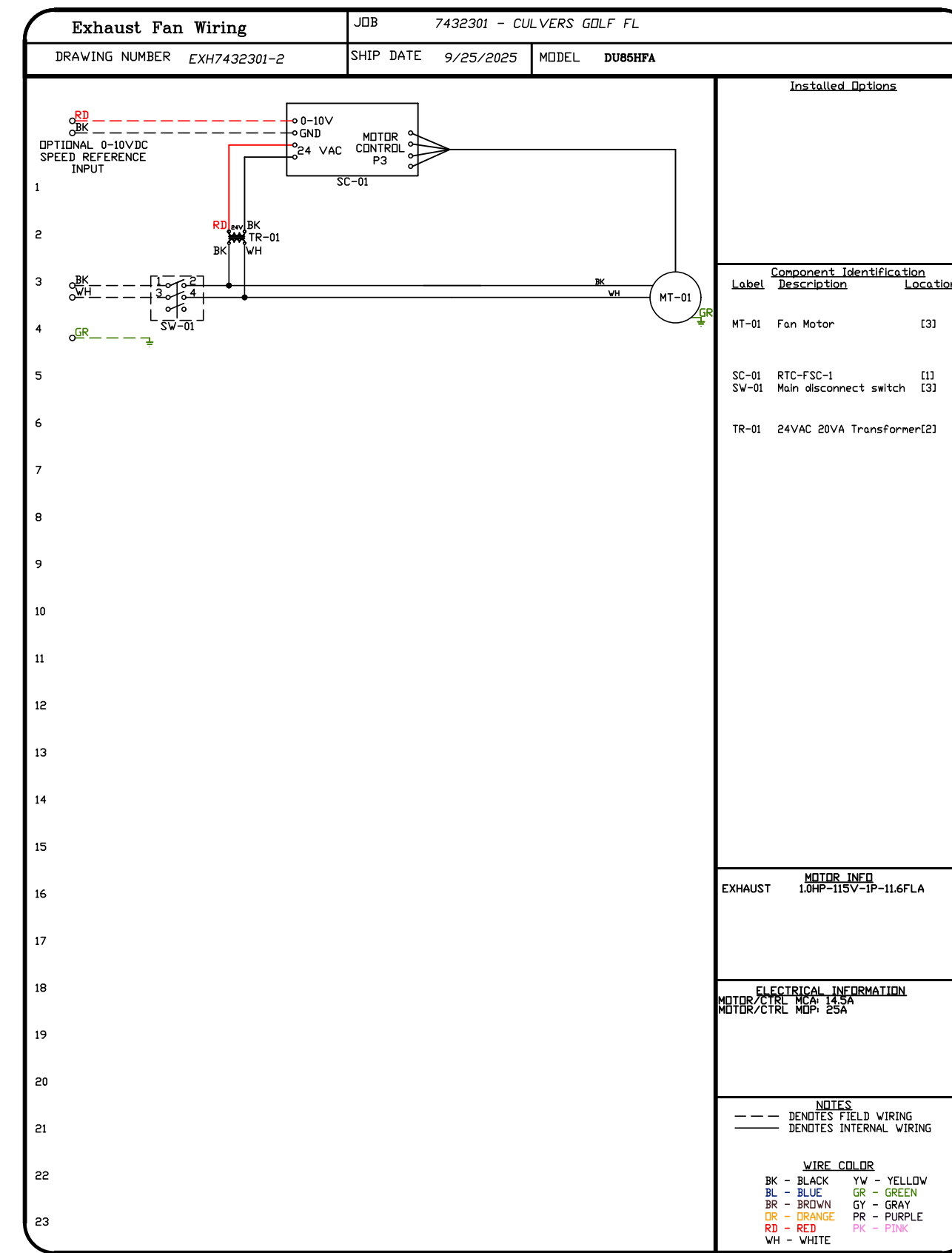
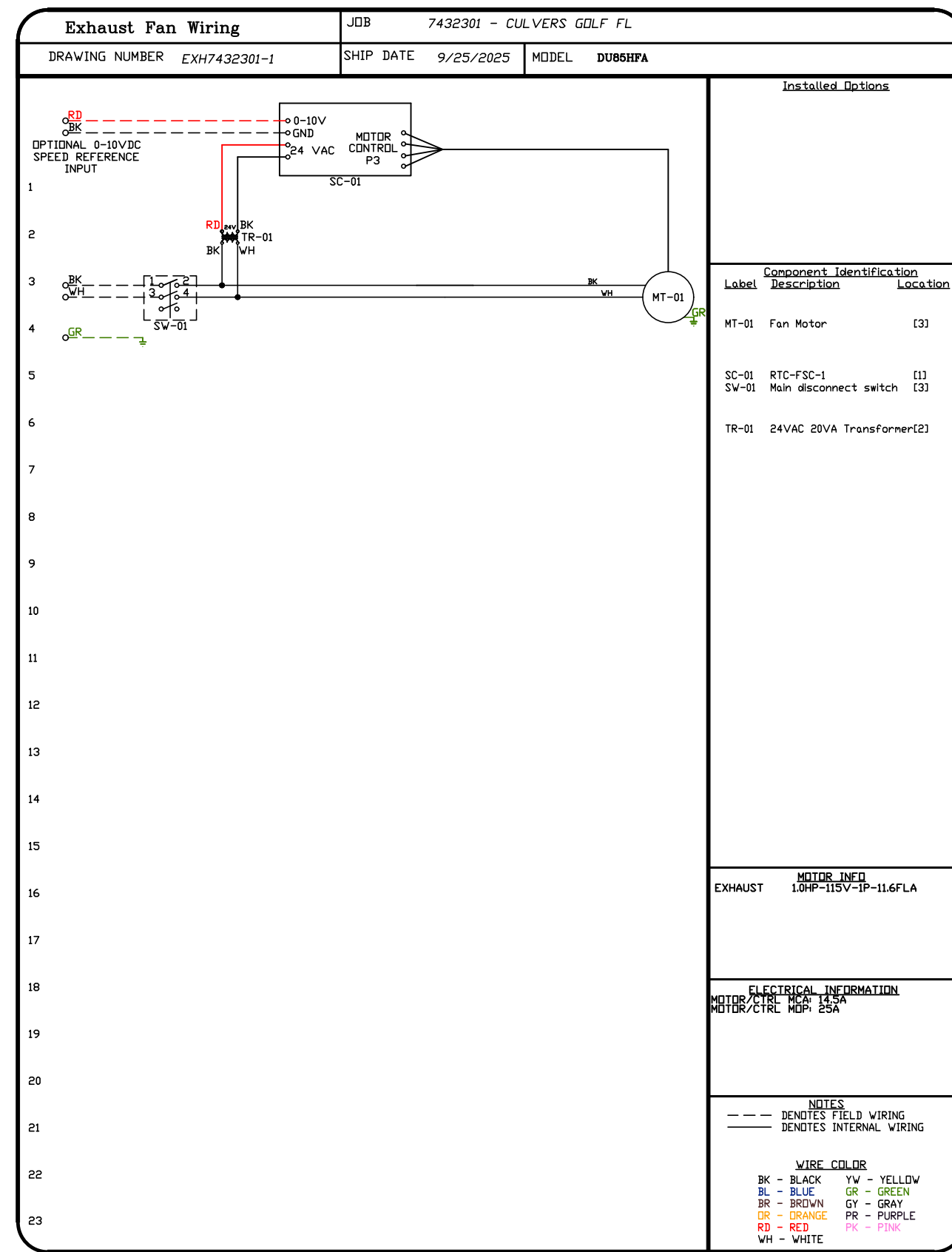
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 12



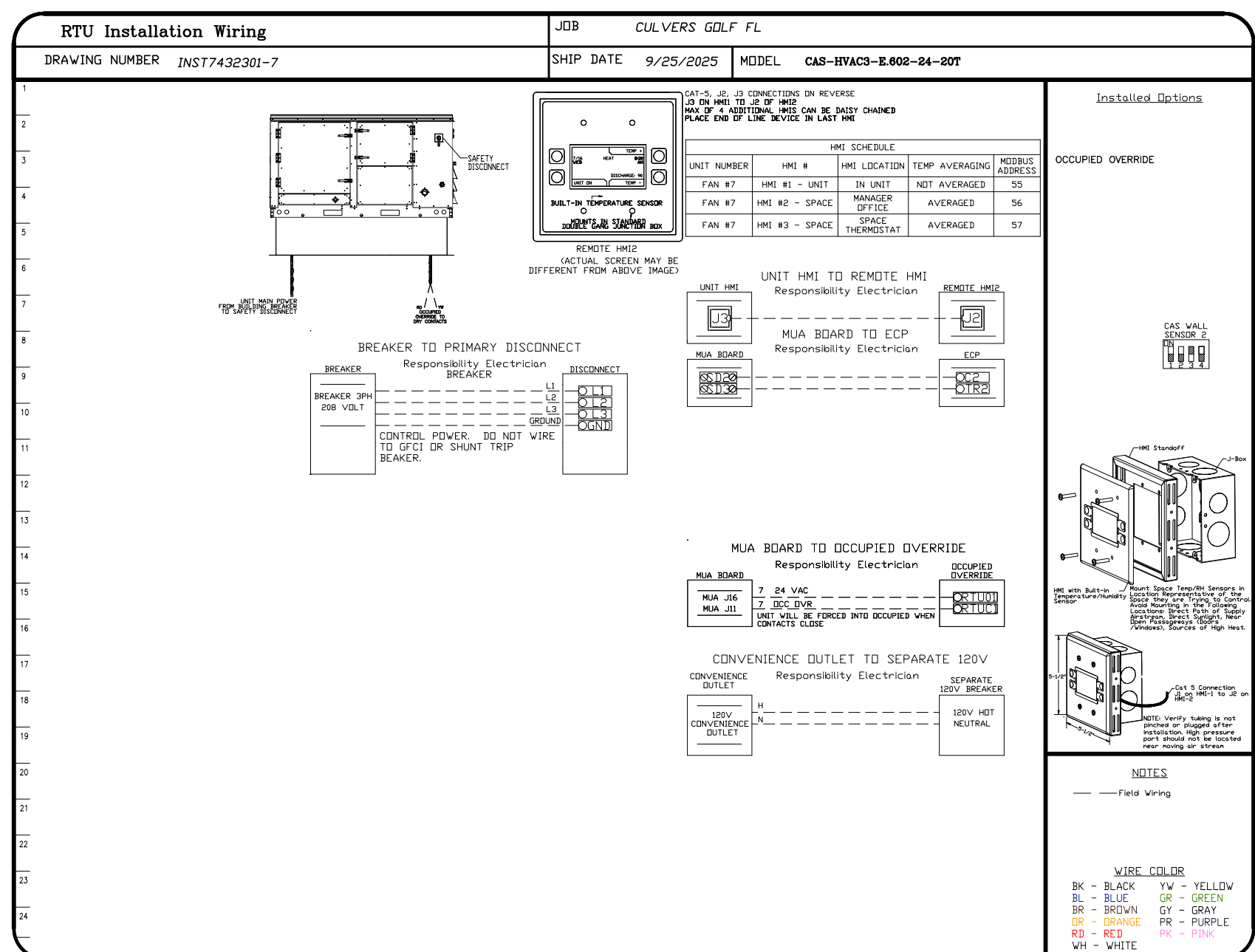
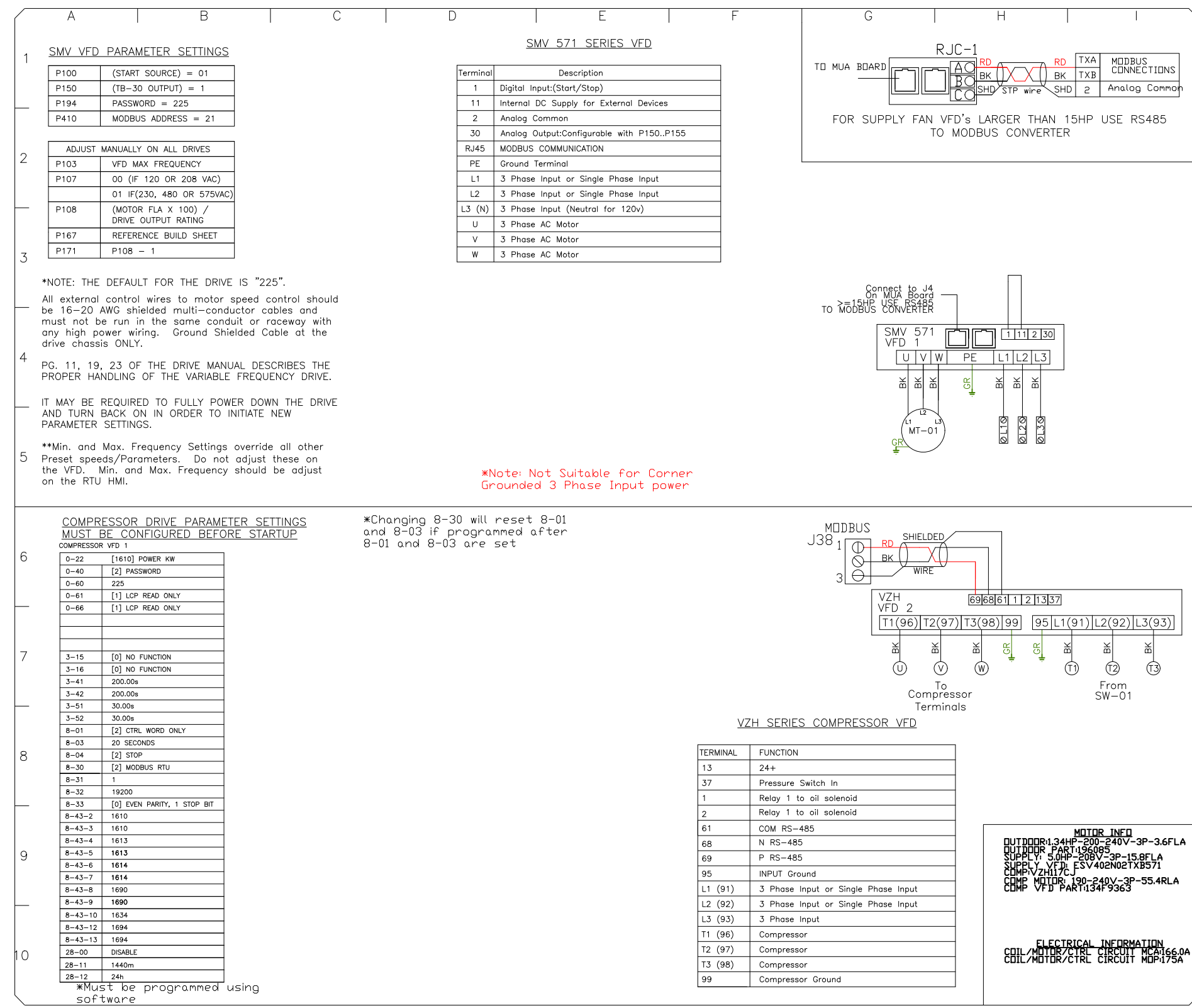
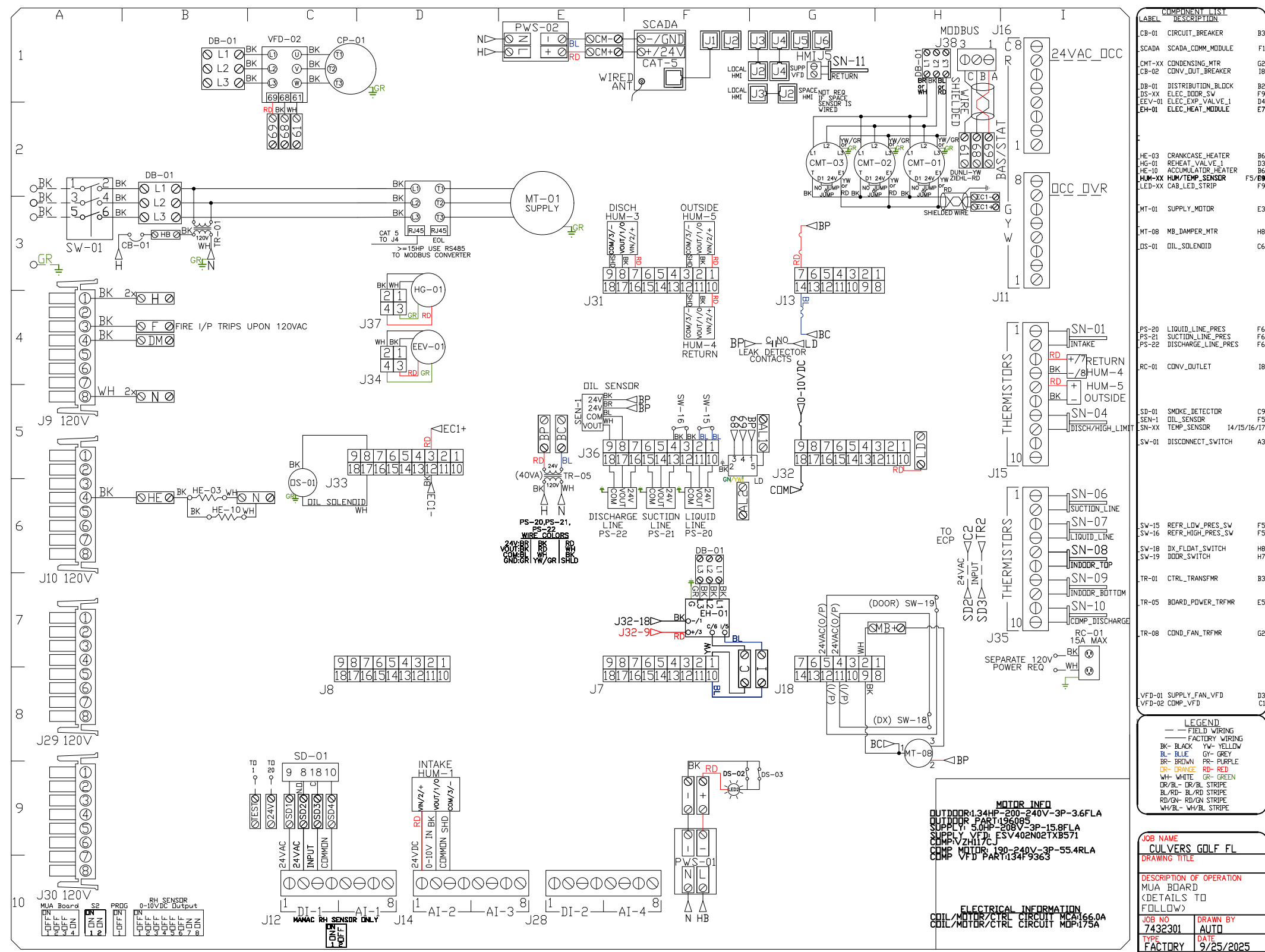
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 13



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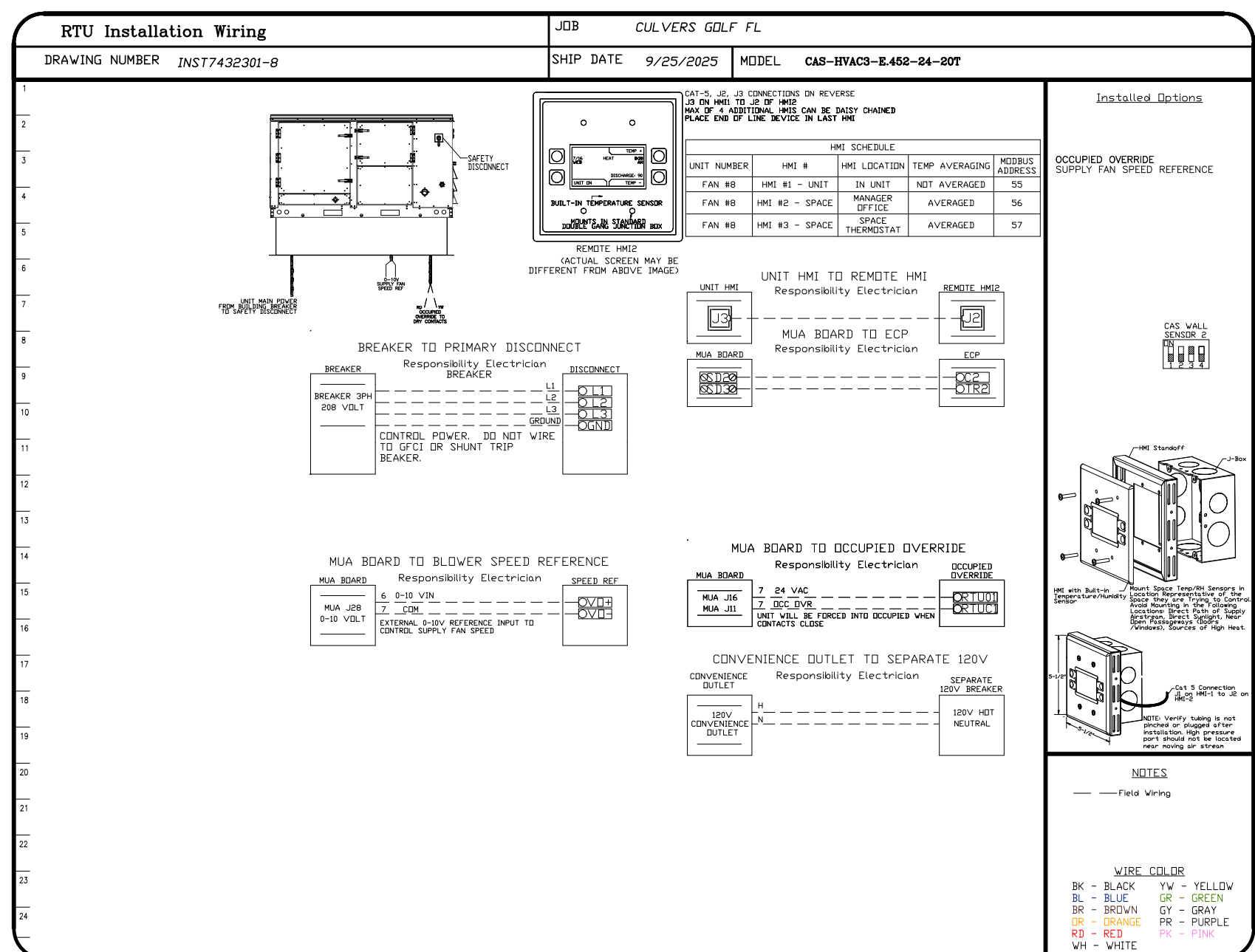
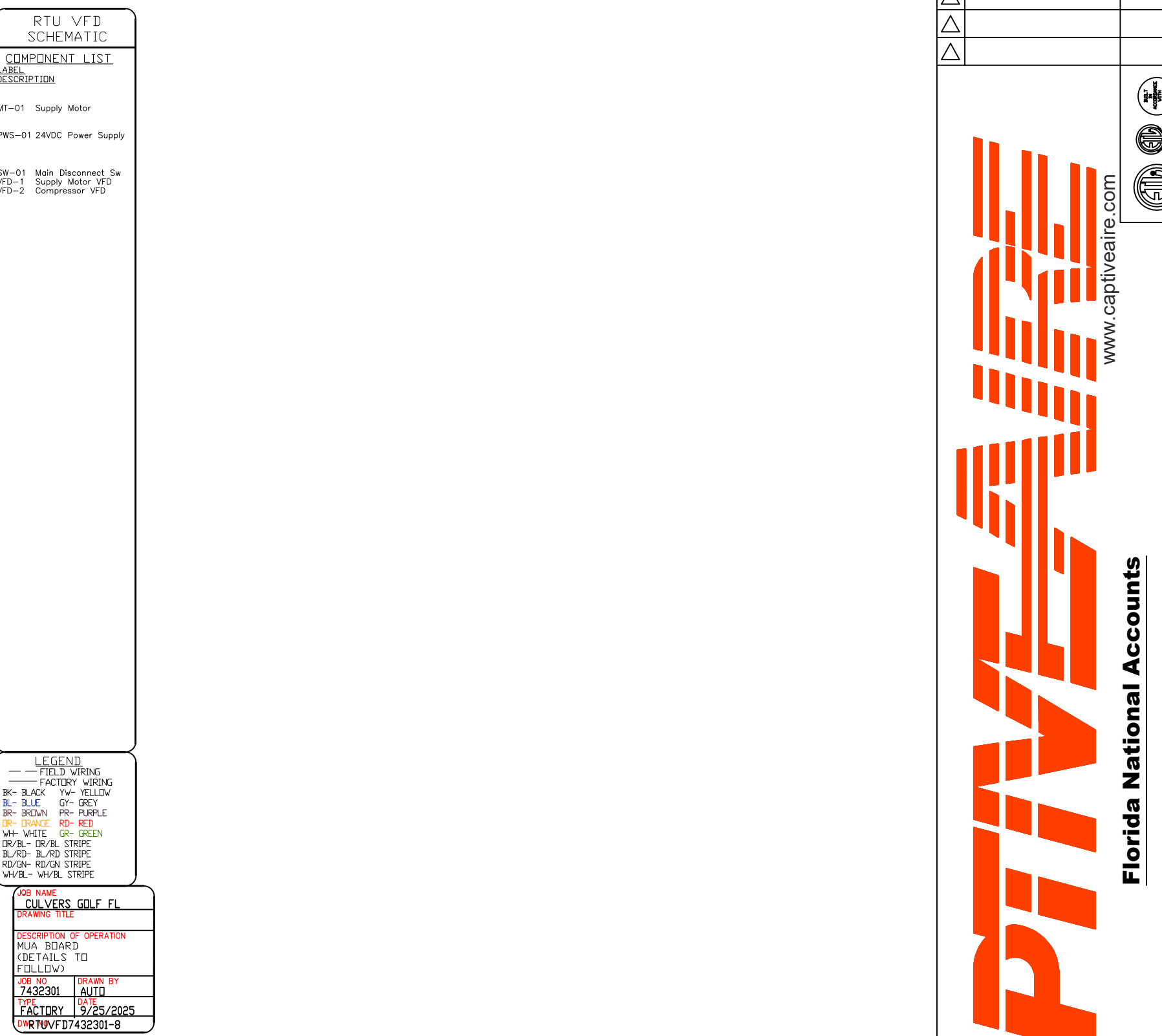
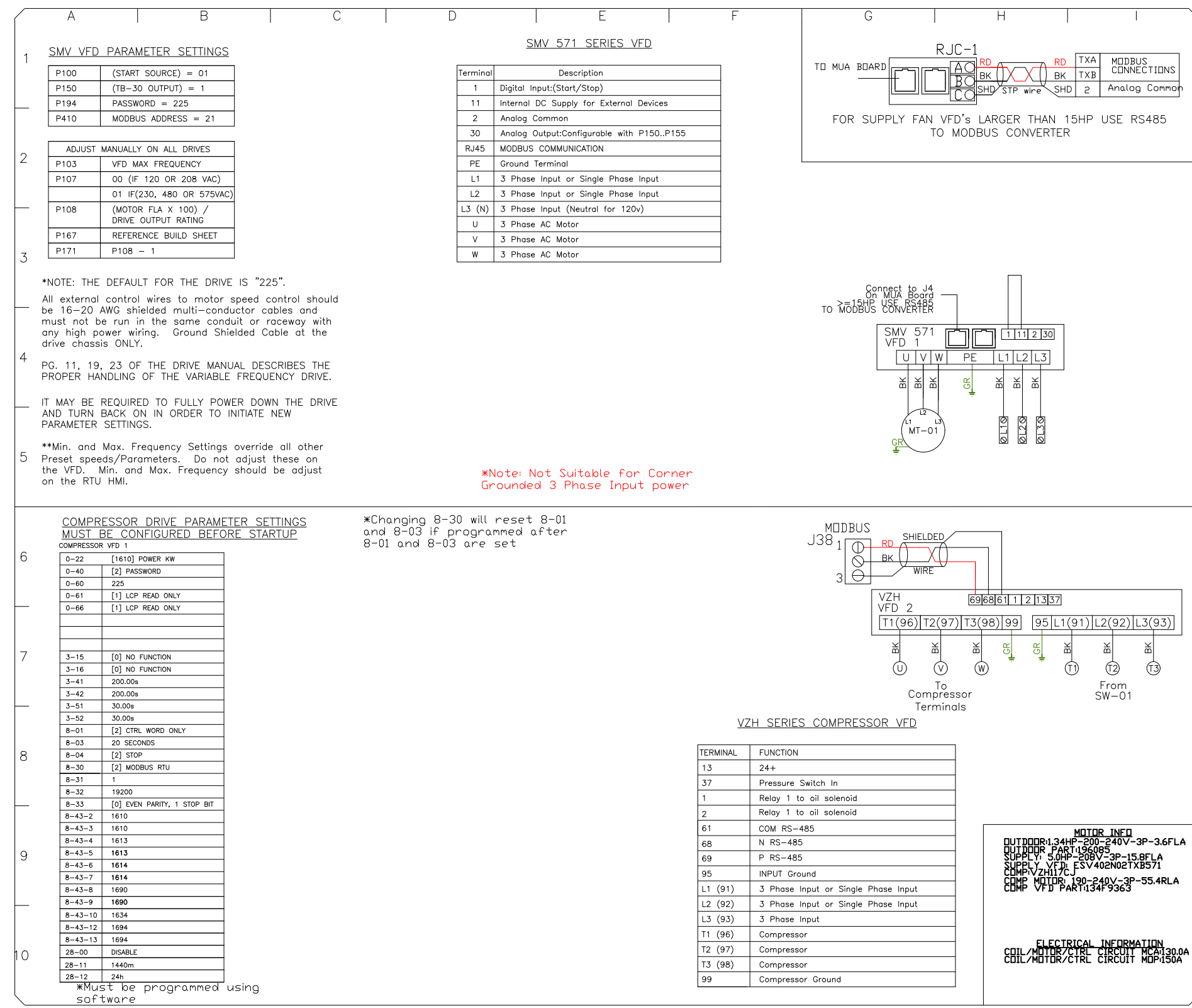
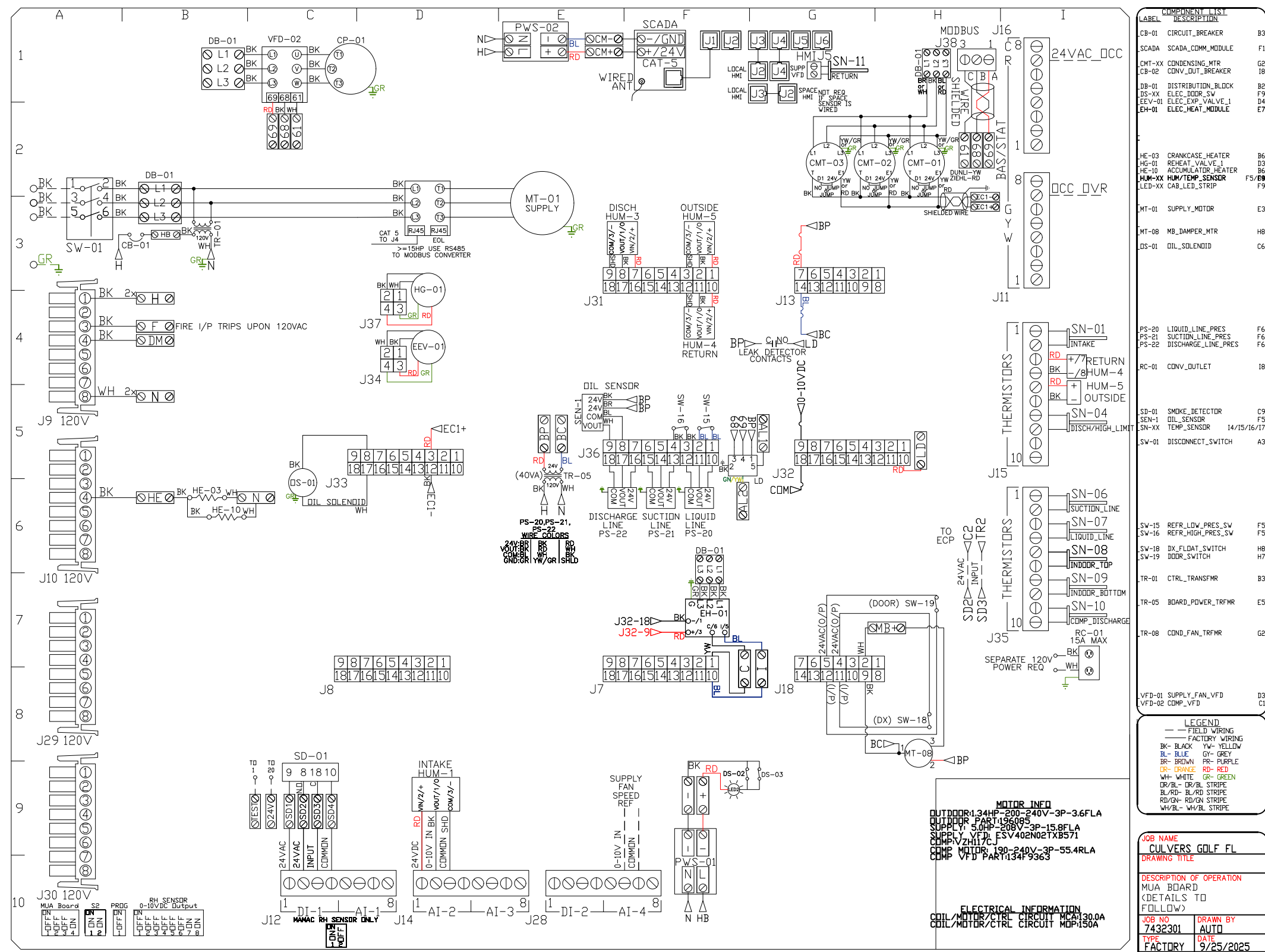
**DWG.#:** 7432301

**DRAWN BY:** studdy jr

**SCALE:** 3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.** 14



**REVISIONS**

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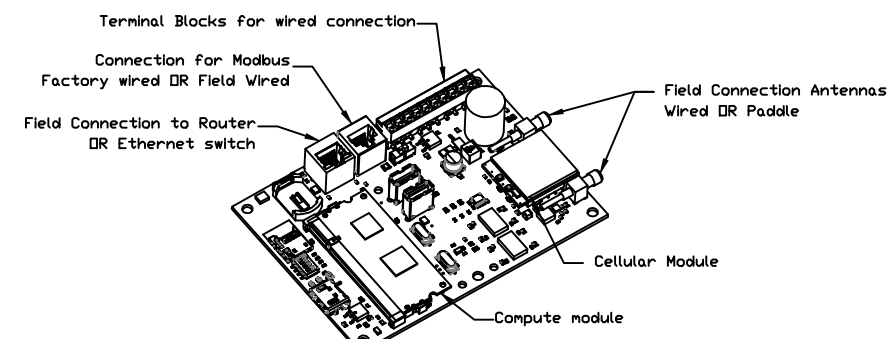
**MASTER DRAWING**

**SHEET NO.**

15

**ELECTRICAL PACKAGE - JOB#7432301**

| NO | TAG | PACKAGE #    | LOCATION             | SWITCHES                 |          | OPTION  | FANS CONTROLLED |         |   |       |      |      |
|----|-----|--------------|----------------------|--------------------------|----------|---|-----------------|---------|---|-------|------|------|
|    |     |              |                      | LOCATION                 | QUANTITY |   | FAN TAG         | TYPE    | # | HP    | VOLT | FLA  |
| 1  |     | SC-E012011MA | WALL MOUNT IN SS BDX | SHIP LOOSE W/<br>PREWIRE | 1 LIGHT  | SMART CONTROLS THERMSTATIC CONTROL<br>W/ RELAY DN/OFF WITH SUPPLY | PRV-2           | EXHAUST | 1 | 1.000 | 115  | 11.6 |
|    |     |              |                      |                          | 1 FAN    |   | RTU-2 Kitchen   | SUPPLY  | 3 | 5.000 | 208  | 15.8 |

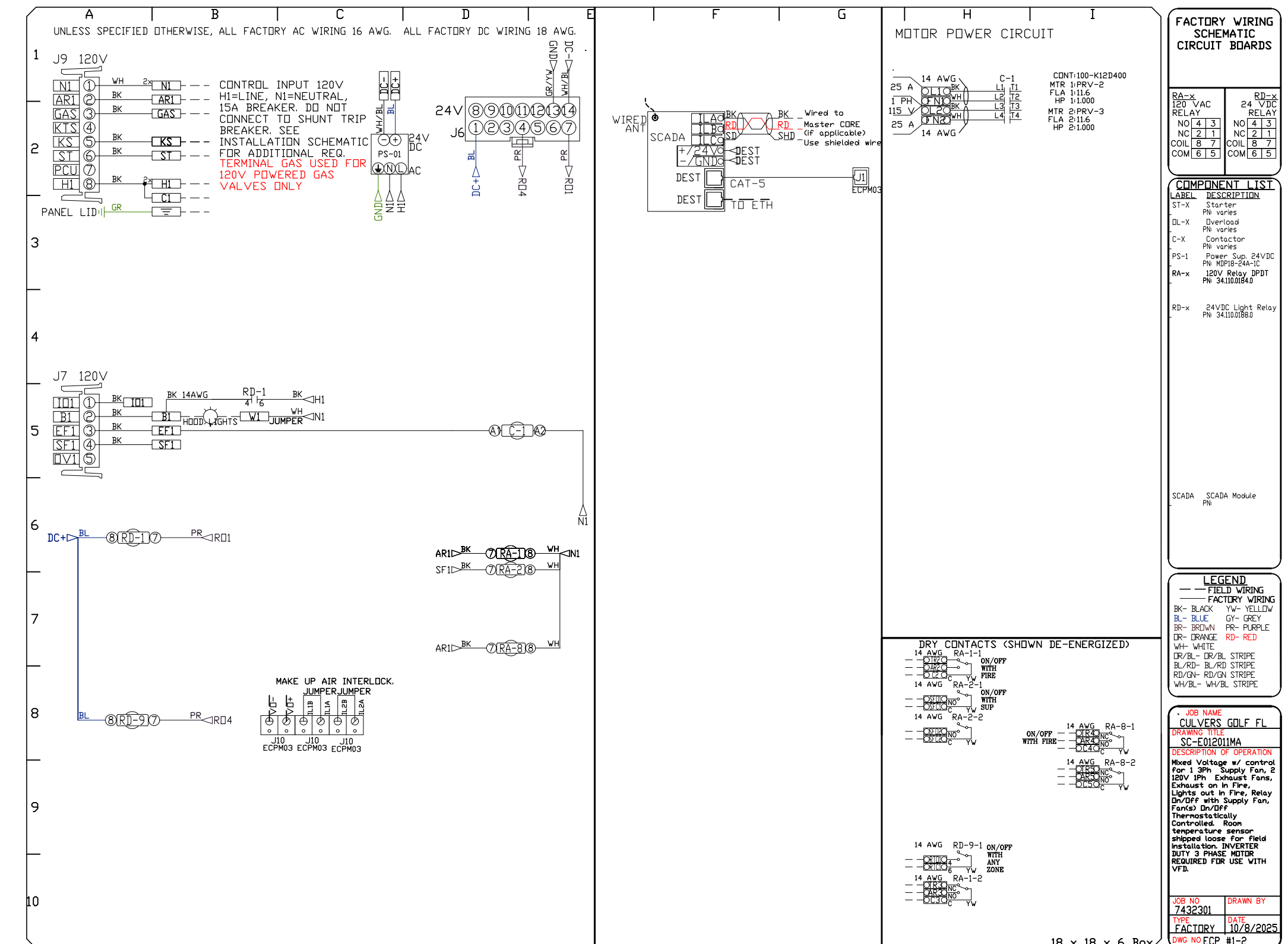
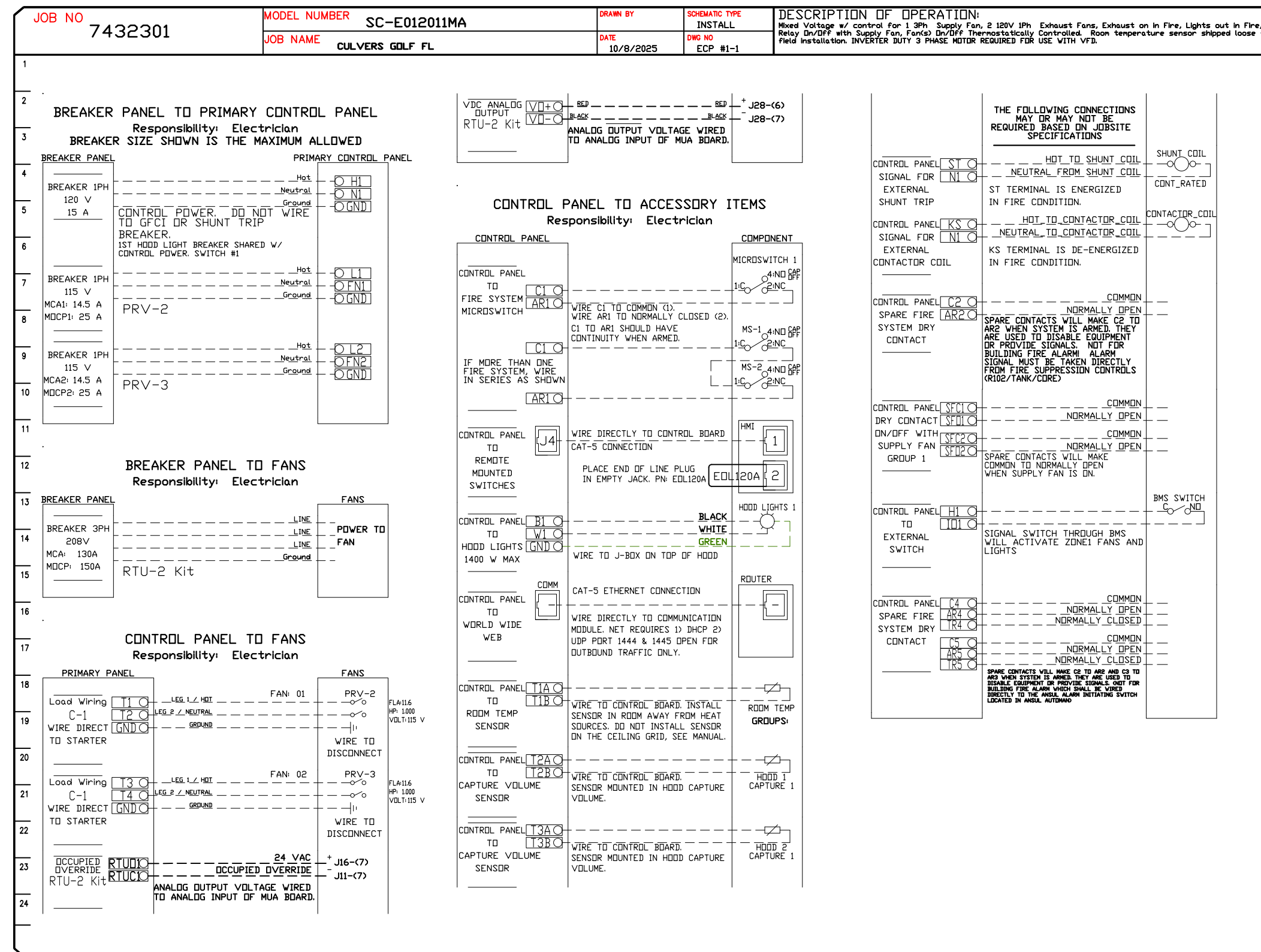


**CASlink Monitor and Control**

- Hood control panel to support communications to cloud-based Building Management Systems.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

**MONITORING AND CONTROL POINTS LIST**

| DCV Packages                      | Function          | SC Packages                       | Function          |
|-----------------------------------|-------------------|-----------------------------------|-------------------|
| Room Temperature                  | MONITOR           | Room Temperature(s)               | MONITOR           |
| Duct Temperature(s)               | MONITOR           | Duct Temperature(s)               | MONITOR           |
| MUA Discharge Temperature         | MONITOR           | MUA Discharge Temperature         | MONITOR           |
| Kitchen RTU Discharge Temperature | MONITOR           | Kitchen RTU Discharge Temperature | MONITOR           |
| Fan Speed                         | MONITOR           | Controller Faults                 | MONITOR           |
| Fan Amperage                      | MONITOR           | Fan Faults                        | MONITOR           |
| Fan Power                         | MONITOR           | Fan Status                        | MONITOR           |
| VFD Faults                        | MONITOR           | PCU Faults                        | MONITOR           |
| Controller Faults                 | MONITOR           | PCU Filter Clog Percentages       | MONITOR           |
| Fan Faults                        | MONITOR           | Flow Condition                    | MONITOR           |
| Fan Status                        | MONITOR           | CORE Fire System                  | MONITOR           |
| PCU Filter Clog Percentages       | MONITOR           | Building Pressures                | MONITOR           |
| Fire Condition                    | MONITOR           | Room Temp                         | MONITOR           |
| CORE Fire System                  | MONITOR & CONTROL | Light Capture                     | MONITOR & CONTROL |
| Building Pressures                | MONITOR           | Wash Button                       | MONITOR & CONTROL |
| Prep Time Button                  | MONITOR & CONTROL |                                   |                   |
| Fans Button                       | MONITOR & CONTROL |                                   |                   |
| Light Button                      | MONITOR & CONTROL |                                   |                   |
| Wash Button                       | MONITOR & CONTROL |                                   |                   |



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**MASTER DRAWING**

**SHEET NO.**  
16

DUCTWORK #1 PARTS - JOB#7432301 DOUBLE WALL GREASE DUCT

| TAG                       | PART #             | CFM | GPM | ZONE | COVEREDBY | SP | WEIGHT | VELOCITY | QTY | DESCRIPTION  |
|---------------------------|--------------------|-----|-----|------|-----------|----|--------|----------|-----|--|
| P1                        | DW1247DWLT-2R-S    |     |     |      |           |    | 54.71  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 47' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.  |
| P2                        | DW1235DWLT-2R-S    |     |     |      |           |    | 40.86  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.  |
| P3                        | DW1247DWAJD-2R-S   |     |     |      |           |    | 83.19  |          | 1   | DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS. |
| P4<br>ASSEMBLED W/P5      | DW124550DWLTP-2R-S |     |     |      |           |    | 53.52  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.   |
| P5<br>ASSEMBLED W/P4 D=B  | DW2312TPDBEX       |     |     |      |           |    | 8.00   |          | 1   | DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE DD IS 23.5' DESIGNED FOR USE WITH EXHAUST FAN.   |
| P6                        | DW1247DWLT-2R-S    |     |     |      |           |    | 54.71  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 47' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.  |
| P7                        | DW1235DWLT-2R-S    |     |     |      |           |    | 40.86  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 35' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.  |
| P8                        | DW1247DWAJD-2R-S   |     |     |      |           |    | 83.19  |          | 1   | DOUBLE WALL ADJUSTABLE DUCT - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS. |
| P9<br>ASSEMBLED W/P10     | DW124550DWLTP-2R-S |     |     |      |           |    | 53.52  |          | 1   | DOUBLE WALL DUCT - 12" INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.   |
| P10<br>ASSEMBLED W/P9 D=B | DW2312TPDBEX       |     |     |      |           |    | 8.00   |          | 1   | DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE DD IS 23.5' DESIGNED FOR USE WITH EXHAUST FAN.   |
|                           | 3M-2000PLUS        |     |     |      |           |    | 0.80   |          | 2   | DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.   |
|                           | DW12DWCLASY-2R-S   |     |     |      |           |    | 6.44   |          | 4   | DUCT - 12" DUCT - 16" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.  |
| TOTAL WEIGHT              |                    |     |     |      |           |    | 507.92 |          |     |  |
| TOTAL PRESSURE            |                    |     |     |      |           |    |        |          |     |  |

DOUBLE WALL FACTORY BUILT DUCTWORK

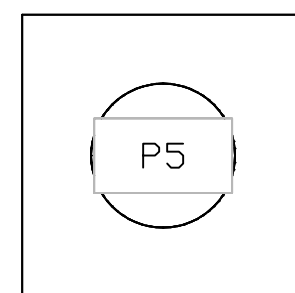
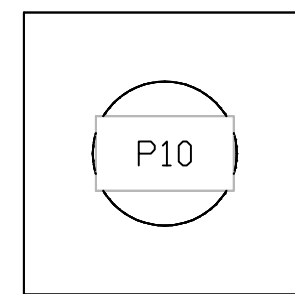
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| HORIZONTAL    |                      |
|---------------|----------------------|
| DUCT DIAMETER | SUPPORT SPACING (FT) |
| 5'            | 7'                   |
| 6'            | 7'                   |
| 7'            | 7'                   |
| 8'            | 7'                   |
| 10'           | 7'                   |
| 12'           | 7'                   |
| 14'           | 7'                   |
| 16'           | 7'                   |
| 18'           | 5'                   |
| 20'           | 5'                   |
| 22'           | 5'                   |
| 24'           | 5'                   |
| 26'           | 5'                   |
| 28'           | 5'                   |
| 30'           | 5'                   |
| 32'           | 5'                   |
| 34'           | 5'                   |
| 36'           | 5'                   |

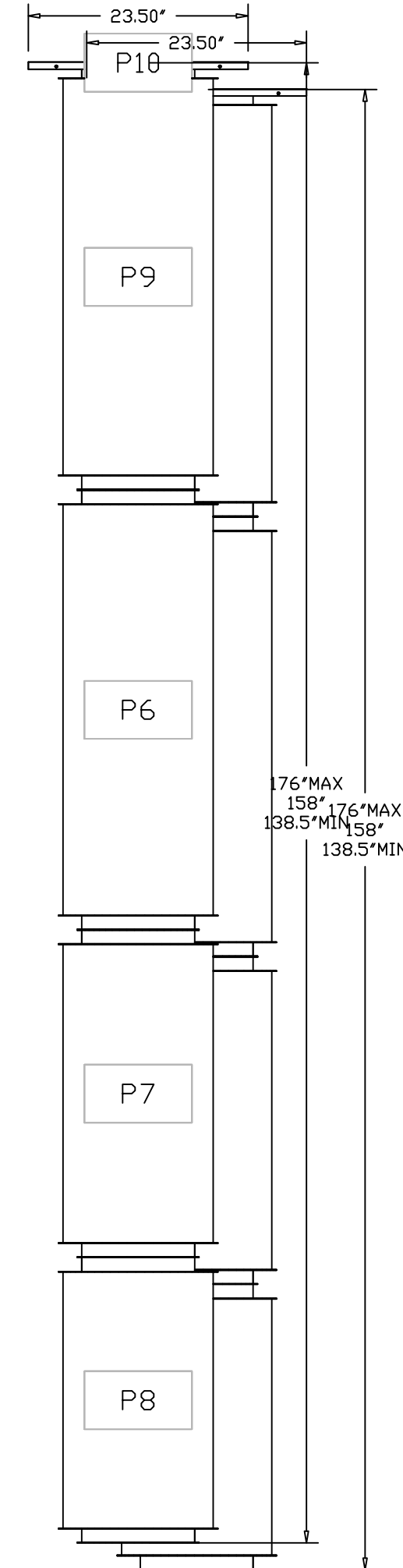
| VERTICAL            |                   |                   |                    |
|---------------------|-------------------|-------------------|--------------------|
| TYPE                | WALL SUPPORT (FT) | CURB SUPPORT (FT) | FLOOR SUPPORT (FT) |
| 2R & 2R HT (5'-16') | 20'               | 24'               | 24'                |
| 2R (18')            | 18'               | 24'               | 24'                |
| 3R & 3Z (5'-24')    | 10'               | 24'               | 24'                |
| 3Z (26' -36')       | 10'               | 20'               | 20'                |

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

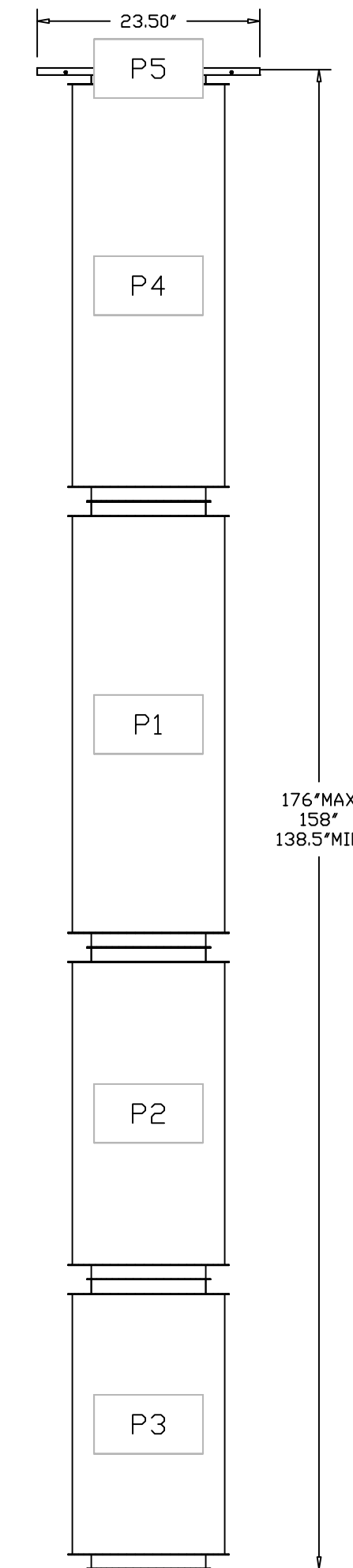
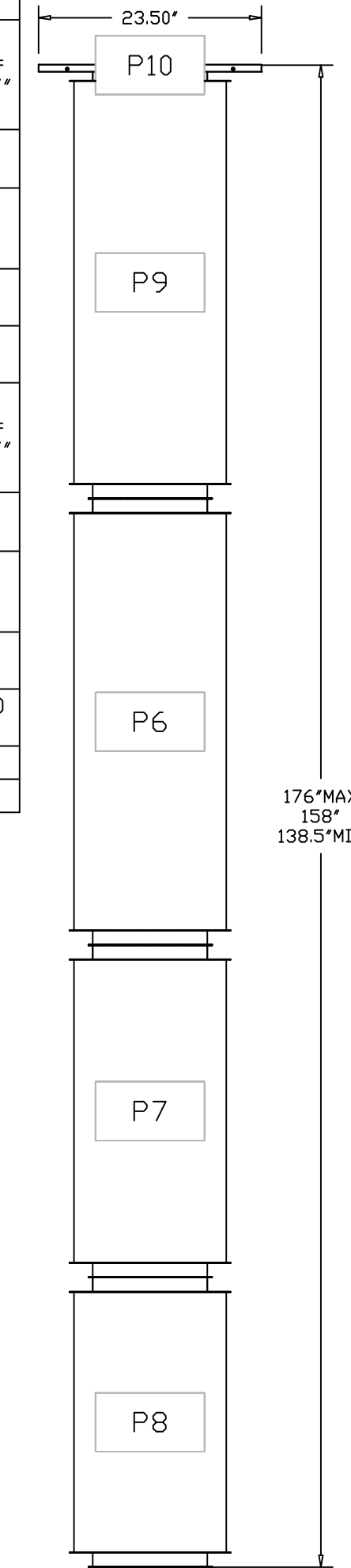
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



REVISIONS

| DESCRIPTION | DATE |
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CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

DATE: 10/8/2025

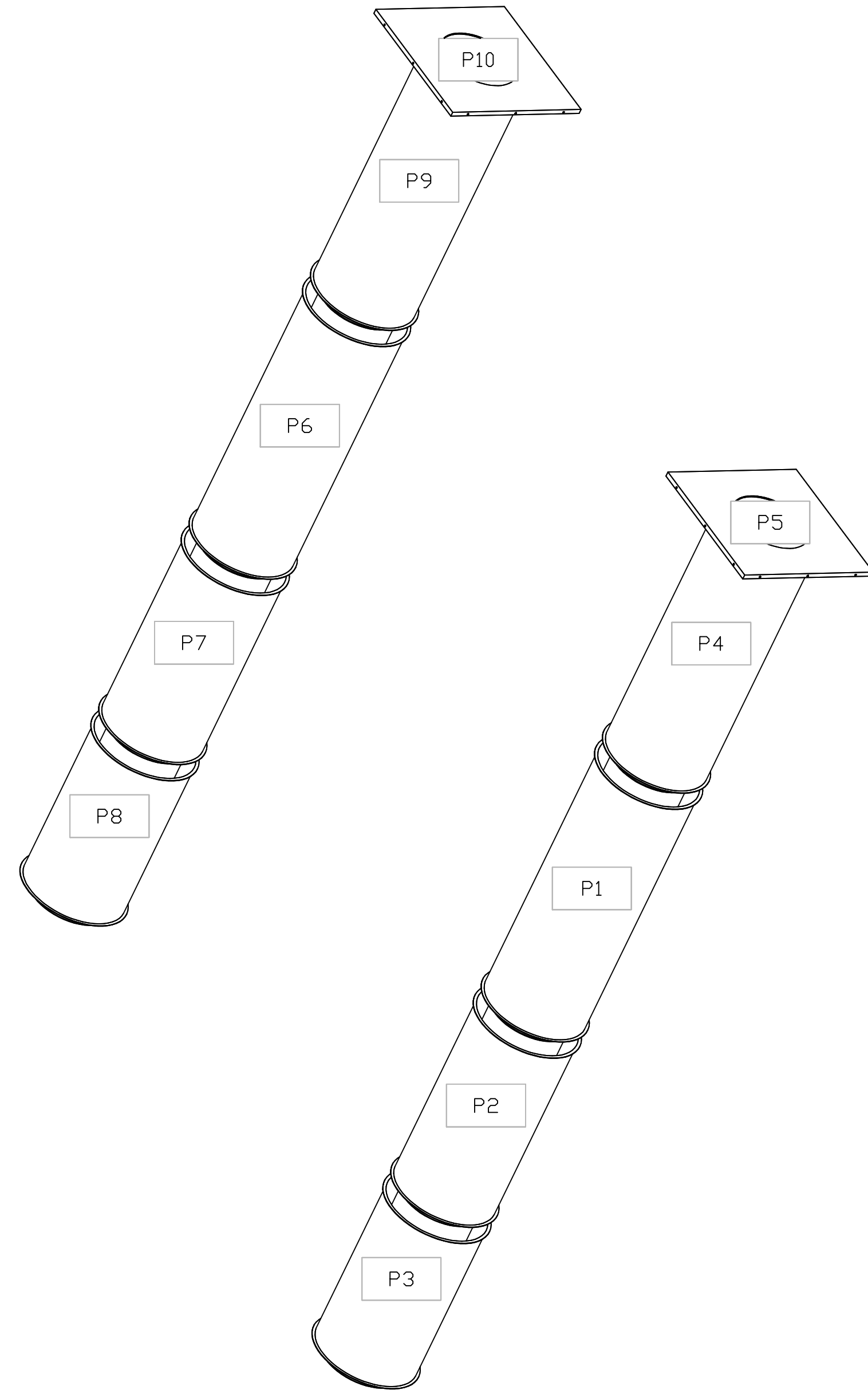
DWG. #: 7432301

DRAWN BY: studdy jr

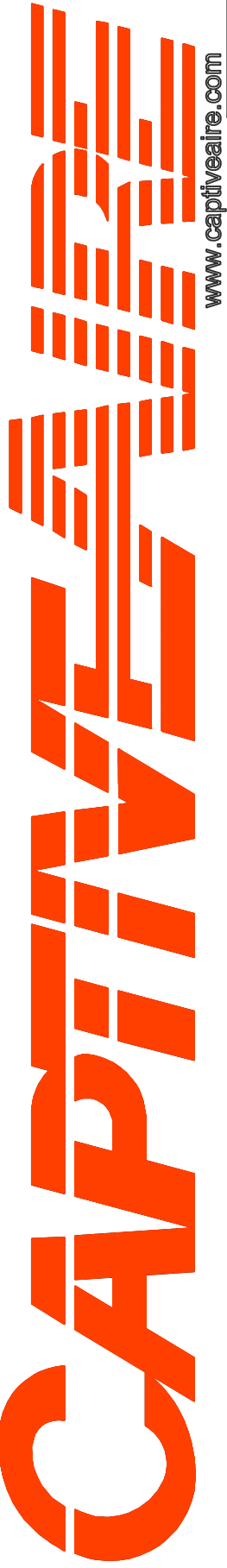
SCALE: 3/4" = 1'-0"

MASTER DRAWING

DUCTWORK #1 SE VIEW  
GREASE DUCT



| REVISIONS   |      |
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| DESCRIPTION | DATE |
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DATE: 10/8/2025

DWG. #: 7432301

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SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.  
18

**DUCTWORK #2 PARTS – JOB#7432301 DISH DUCT**

| TAG                                   | PART #       | CFM | GPM | ZONE | COVEREDBY | SP      | WEIGHT | VELOCITY | QTY | DESCRIPTION   |
|---------------------------------------|--------------|-----|-----|------|-----------|---------|--------|----------|-----|---|
| P1                                    | DW0811LT     | 350 |     |      |           | -0.0029 | 3.13   | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 11' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P2                                    | DW0890ASY    | 350 |     |      |           | -0.0460 | 4.77   | 1002.7   | 1   | SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.  |
| P3                                    | DW0807LT     | 350 |     |      |           | -0.0018 | 2.08   | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 7' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.  |
| P4                                    | DW0818AJDKIT | 350 |     |      |           | -0.0026 | 6.80   | 1002.7   | 1   | SINGLE WALL DUCT ADJUSTABLE, 8" DIAMETER, 17.5' LONG, FLANGE AT ONE END WITH A 8" ADJUSTABLE COLLAR – STAINLESS STEEL.              |
| P5                                    | DW0890ASY    | 350 |     |      |           | -0.0421 | 4.77   | 1002.7   | 1   | SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.  |
| P6                                    | DW0804C1D    | 350 |     |      |           | -0.0010 | 1.43   | 1002.7   | 1   | SINGLE WALL DUCT OFF SET COLLAR – 8" DIAMETER DUCT – 1/4" PITCH.  |
| P7                                    | DW0847LT     | 350 |     |      |           | -0.0123 | 12.59  | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P8                                    | DW0847LT     | 350 |     |      |           | -0.0123 | 12.59  | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P9                                    | DW0847LT     | 350 |     |      |           | -0.0123 | 12.59  | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P10                                   | DW0848AJDKIT | 350 |     |      |           | -0.0099 | 15.32  | 1002.7   | 1   | SINGLE WALL DUCT ADJUSTABLE, 8" DIAMETER, 47.5' LONG, FLANGE AT ONE END WITH A 8" ADJUSTABLE COLLAR – STAINLESS STEEL.              |
| P11                                   | DW08SUBRASY  |     |     |      |           |         | 2.34   |          | 1   | DUCT SUPPORT BRACKET KIT, 8" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. – 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2. |
| P12                                   | DW08SUBRASY  |     |     |      |           |         | 2.34   |          | 1   | DUCT SUPPORT BRACKET KIT, 8" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. – 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2. |
| P13                                   | DW0804C1D    | 350 |     |      |           | -0.0010 | 1.43   | 1002.7   | 1   | SINGLE WALL DUCT OFF SET COLLAR – 8" DIAMETER DUCT – 1/4" PITCH.  |
| P14                                   | DW0890ASY    | 350 |     |      |           | -0.0263 | 4.77   | 1002.7   | 1   | SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.  |
| P15                                   | DW0835LT     | 350 |     |      |           | -0.0091 | 9.44   | 1002.7   | 1   | SINGLE WALL DUCT 8" DIAMETER, 35' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P16 ASSEMBLED W/P17                   | DW0848AJDKIT | 350 |     |      |           | -0.0101 | 15.32  | 1002.7   | 1   | SINGLE WALL DUCT ADJUSTABLE, 8" DIAMETER, 47.5' LONG, FLANGE AT ONE END WITH A 8" ADJUSTABLE COLLAR – STAINLESS STEEL.              |
| P17 ASSEMBLED W/P16 D=T SYSTEM AT P17 | DW1708TPDBEX | 350 |     |      |           |         | 7.00   | 1002.7   | 1   | DUCT TO CURB TRANSITION 3/4" DOWN TURN, 17-1/2" CURB TO 8" DUCT, 16 GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.                 |
|                                       | 3M-2000PLUS  |     |     |      |           |         | 0.80   |          | 2   | DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.  |
|                                       | DW08CLASY    |     |     |      |           |         | 0.70   |          | 14  | DUCT *V* CLAMP, 8" DUCT WITH NEW DESIGN 14 GA BRACKETS, ASSEMBLY.   |
| TOTAL WEIGHT                          |              |     |     |      |           |         | 130.11 |          |     |   |
| TOTAL PRESSURE                        |              |     |     |      |           | -0.4264 |        |          |     |   |

**SINGLE WALL FACTORY BUILT DUCTWORK**

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| DUCT DIAMETER | HORIZONTAL SUPPORT (FT) | VERTICAL WALL SUPPDRT (FT) | VERTICAL CURB SUPPORT (FT) |
|---------------|-------------------------|----------------------------|----------------------------|
| 5"            | 10'                     | 10'                        | 24'                        |
| 6"            | 10'                     | 10'                        | 24'                        |
| 7"            | 10'                     | 10'                        | 24'                        |
| 8"            | 10'                     | 10'                        | 24'                        |
| 10"           | 10'                     | 10'                        | 24'                        |
| 12"           | 10'                     | 10'                        | 24'                        |
| 14"           | 10'                     | 10'                        | 24'                        |
| 16"           | 10'                     | 10'                        | 24'                        |
| 18"           | 10'                     | 10'                        | 24'                        |
| 20"           | 10'                     | 10'                        | 24'                        |
| 22"           | 10'                     | 10'                        | 24'                        |
| 24"           | 10'                     | 10'                        | 24'                        |
| 26"           | 10'                     | 10'                        | 24'                        |
| 28"           | 10'                     | 10'                        | 24'                        |
| 30"           | 10'                     | 10'                        | 24'                        |
| 32"           | 10'                     | 10'                        | 24'                        |
| 34"           | 10'                     | 10'                        | 24'                        |
| 36"           | 10'                     | 10'                        | 24'                        |

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

**REVISIONS**

| DESCRIPTION | DATE: |
|-------------|-------|
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CULVERS GOLF FL  
4860 Woolbright Road,  
Golf, FL, 33436

**DATE:** 10/8/2025

**DWG.#:**  
7432301

**DRAWN BY:** studdy jr

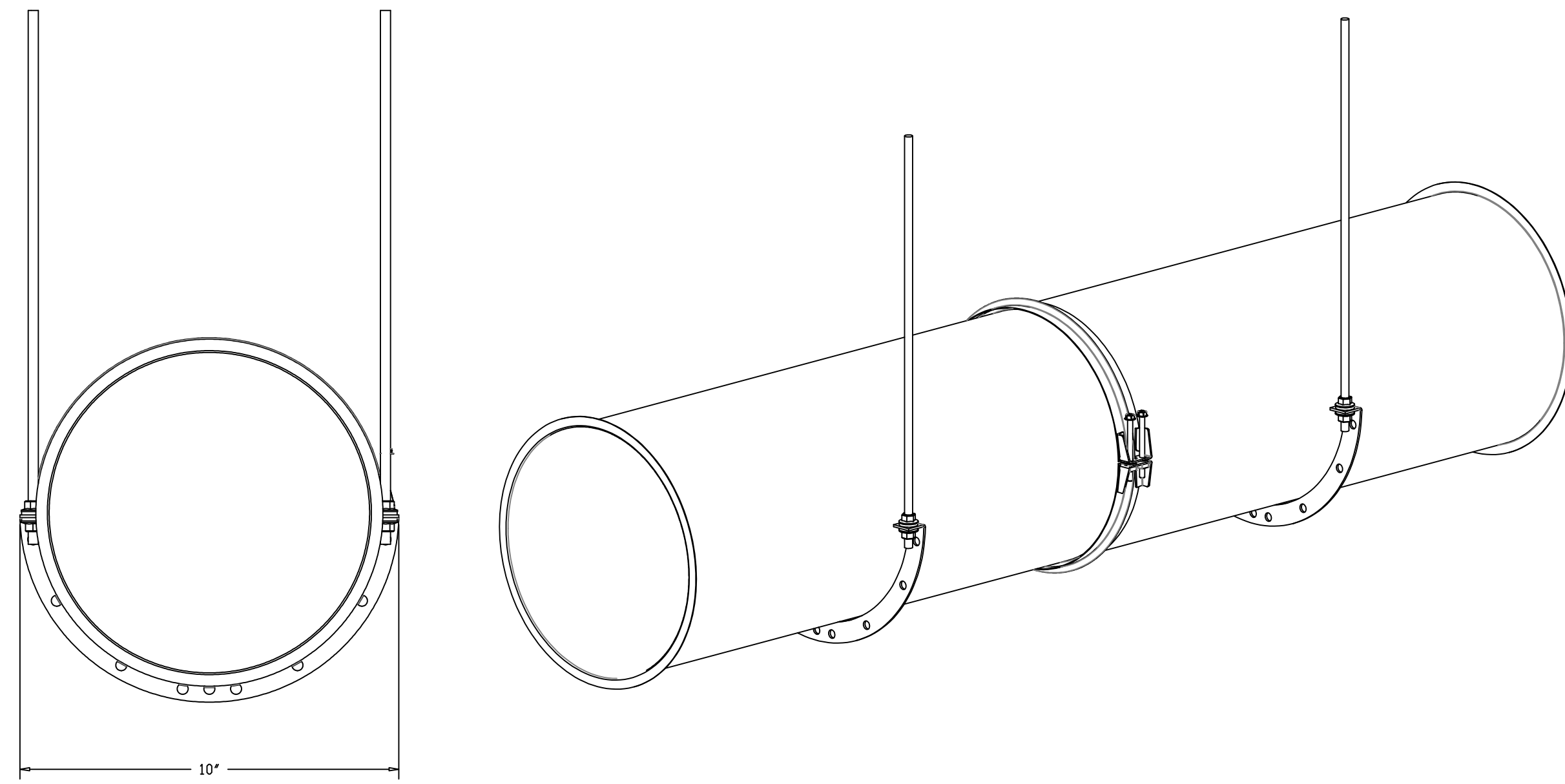
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3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**

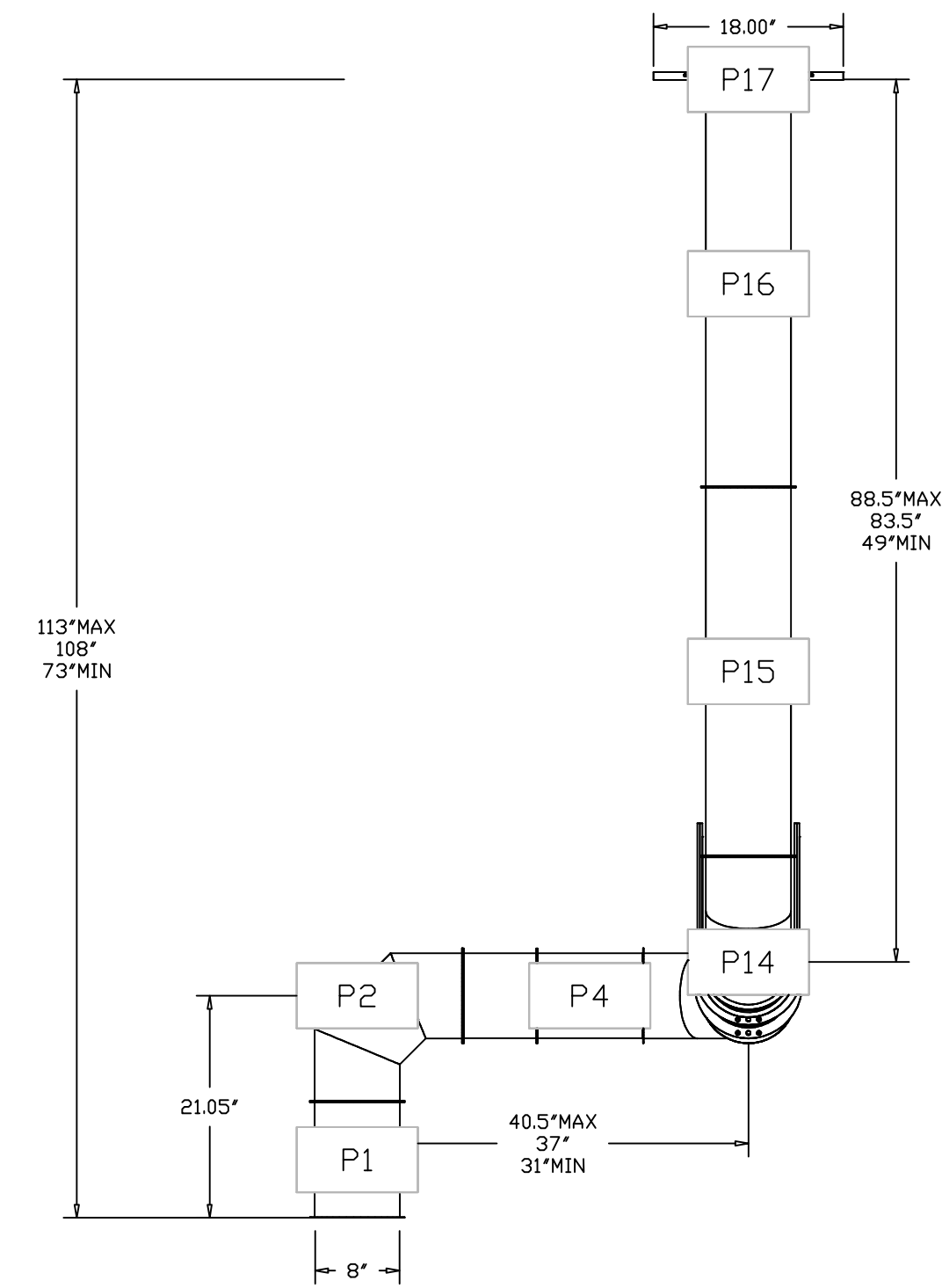
# SUPPORT SYSTEM DETAILS #2

## DW08SUBRASY - HORIZONTAL SUPPORT

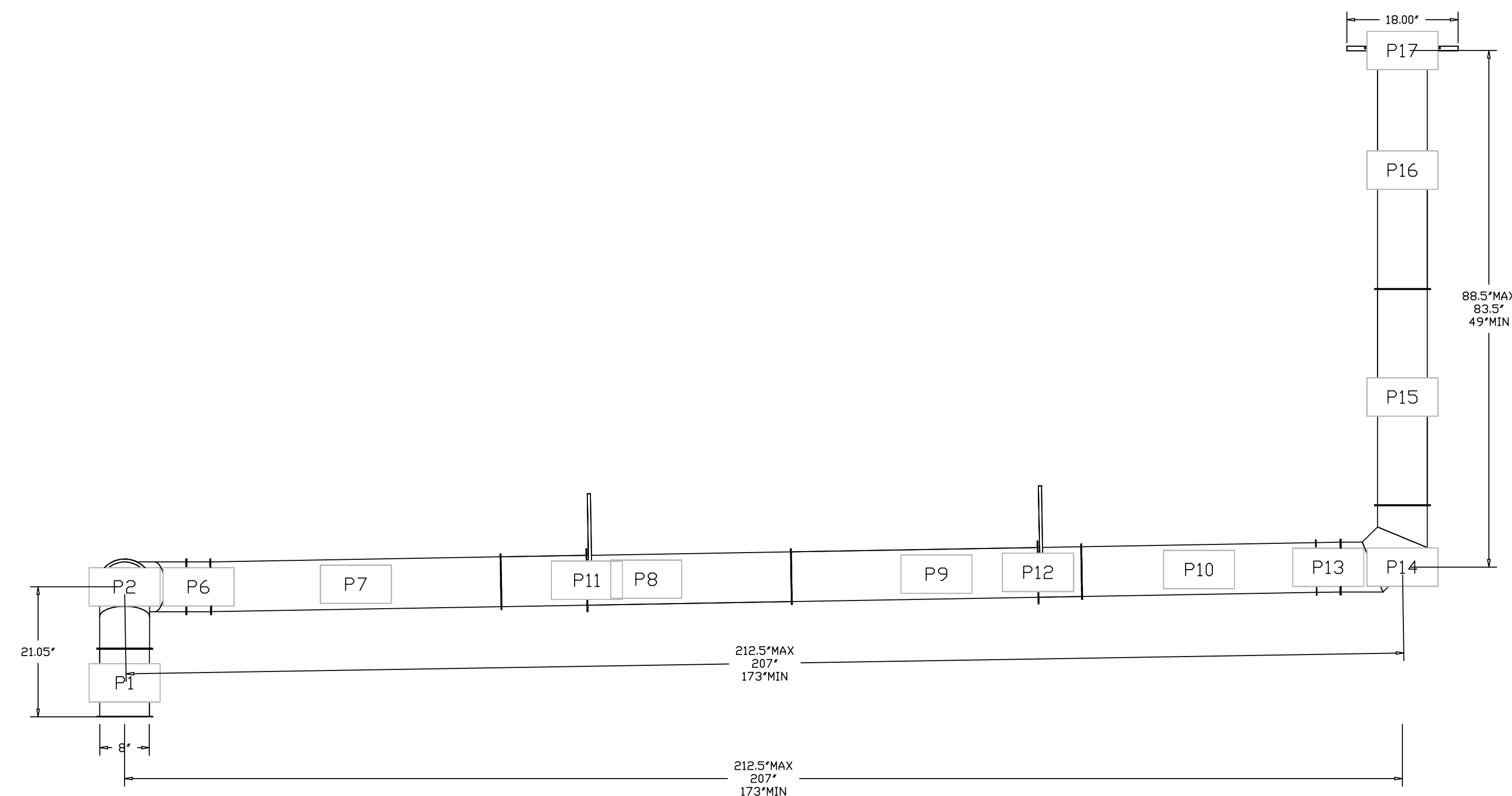
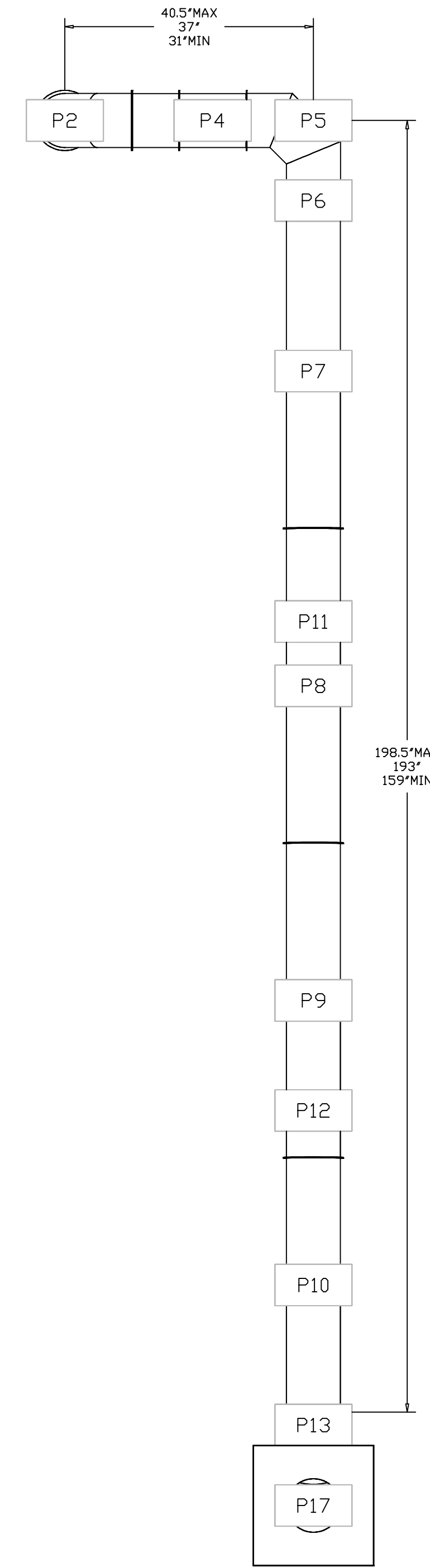


DUCTWORK #2 SIDE VIEW  
DISH DUCT

DUCTWORK #2 FRONT VIEW  
DISH DUCT



DUCTWORK #2 TOP VIEW  
DISH DUCT



| REVISIONS   |      |
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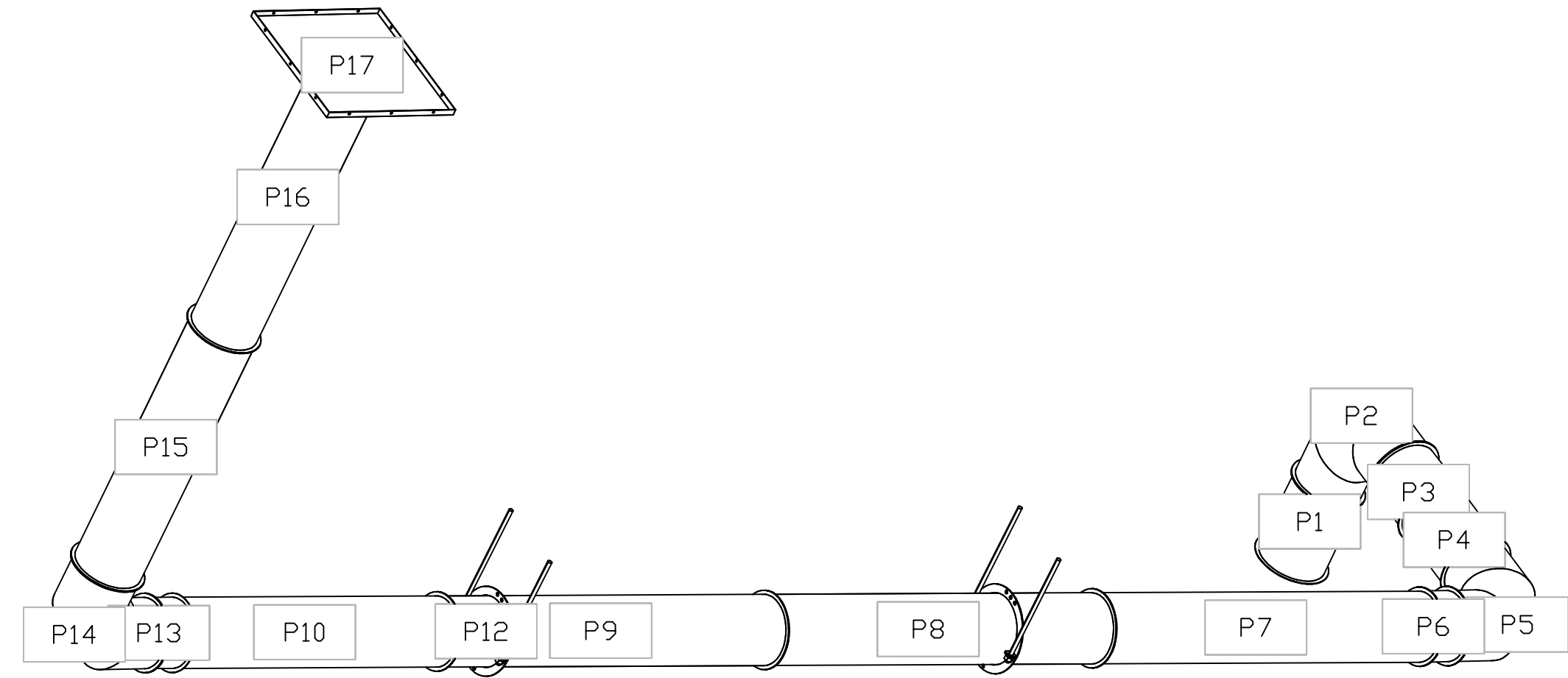
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DATE: 10/8/2025  
DWG.#: 7432301  
DRAWN BY: sluddy jr  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

DUCTWORK #2 SE VIEW  
DISH DUCT



| REVISIONS   |      |
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DWG.#:  
7432301

DRAWN BY: sluddy jr

SCALE:  
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.  
21

**DUCTWORK #3 PARTS - JOB#7432301 DOUBLE WALL ADD DUCT**

| TAG            | PART #           | CFM | GPM | ZONE | COVEREDBY | SP | WEIGHT | VELOCITY | QTY | DESCRIPTION   |
|----------------|------------------|-----|-----|------|-----------|----|--------|----------|-----|---|
| P1             | DW0811LT         |     |     |      |           |    | 3.13   |          | 1   | SINGLE WALL DUCT 8" DIAMETER, 11' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.   |
| P2             | DW08SUBRASY      |     |     |      |           |    | 2.34   |          | 1   | DUCT SUPPORT BRACKET KIT, 8" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2. |
| P3             | DW1245DWASY-2R-S |     |     |      |           |    | 16.53  |          | 1   | DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.                                |
| P4             | DW1245DWASY-2R-S |     |     |      |           |    | 16.53  |          | 1   | DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.                                |
| P5             | DW1245DWASY-2R-S |     |     |      |           |    | 16.53  |          | 1   | DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.                                |
| P6             | DW1245DWASY-2R-S |     |     |      |           |    | 16.53  |          | 1   | DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.                                |
|                | 3M-2000PLUS      |     |     |      |           |    | 0.80   |          | 2   | DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.  |
|                | DW08CLASY        |     |     |      |           |    | 0.70   |          | 2   | DUCT "V" CLAMP, 8" DUCT WITH NEW DESIGN 14 GA BRACKETS, ASSEMBLY.   |
|                | DW12DWCLASY-2R-S |     |     |      |           |    | 6.44   |          | 6   | DUCT - 12" DUCT - 16" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.                             |
| TOTAL WEIGHT   |                  |     |     |      |           |    | 113.23 |          |     |   |
| TOTAL PRESSURE |                  |     |     |      |           |    |        |          |     |   |

**SINGLE WALL FACTORY BUILT DUCTWORK**

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| DUCT DIAMETER | HORIZONTAL SUPPORT (FT) | VERTICAL WALL SUPPDRT (FT) | VERTICAL CURB SUPPDRT (FT) |
|---------------|-------------------------|----------------------------|----------------------------|
| 5'            | 10'                     | 10'                        | 24'                        |
| 6'            | 10'                     | 10'                        | 24'                        |
| 7'            | 10'                     | 10'                        | 24'                        |
| 8'            | 10'                     | 10'                        | 24'                        |
| 10'           | 10'                     | 10'                        | 24'                        |
| 12'           | 10'                     | 10'                        | 24'                        |
| 14'           | 10'                     | 10'                        | 24'                        |
| 16'           | 10'                     | 10'                        | 24'                        |
| 18'           | 10'                     | 10'                        | 24'                        |
| 20'           | 10'                     | 10'                        | 24'                        |
| 22'           | 10'                     | 10'                        | 24'                        |
| 24'           | 10'                     | 10'                        | 24'                        |
| 26'           | 10'                     | 10'                        | 24'                        |
| 28'           | 10'                     | 10'                        | 24'                        |
| 30'           | 10'                     | 10'                        | 24'                        |
| 32'           | 10'                     | 10'                        | 24'                        |
| 34'           | 10'                     | 10'                        | 24'                        |
| 36'           | 10'                     | 10'                        | 24'                        |

**DOUBLE WALL FACTORY BUILT DUCTWORK**

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

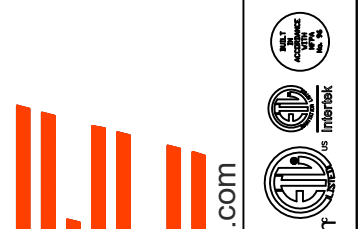
| HORIZONTAL    |                      |
|---------------|----------------------|
| DUCT DIAMETER | SUPPORT SPACING (FT) |
| 5'            | 7'                   |
| 6'            | 7'                   |
| 7'            | 7'                   |
| 8'            | 7'                   |
| 10'           | 7'                   |
| 12'           | 7'                   |
| 14'           | 7'                   |
| 16'           | 7'                   |
| 18'           | 5'                   |
| 20'           | 5'                   |
| 22'           | 5'                   |
| 24'           | 5'                   |
| 26'           | 5'                   |
| 28'           | 5'                   |
| 30'           | 5'                   |
| 32'           | 5'                   |
| 34'           | 5'                   |
| 36'           | 5'                   |

| VERTICAL            |                   |                   |                    |
|---------------------|-------------------|-------------------|--------------------|
| TYPE                | WALL SUPPORT (FT) | CURB SUPPORT (FT) | FLOOR SUPPORT (FT) |
| 2R & 2R HT (5'-16') | 20'               | 24'               | 24'                |
| 2R (18')            | 18'               | 24'               | 24'                |
| 3R & 3Z (5'-24')    | 10'               | 24'               | 24'                |
| 3Z (26' -36')       | 10'               | 20'               | 20'                |

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

**REVISIONS**

| DESCRIPTION | DATE: |
|-------------|-------|
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CULVERS GOLF FL  
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**DATE:** 10/8/2025

**DWG.#:**  
7432301

**DRAWN BY:** studdy jr

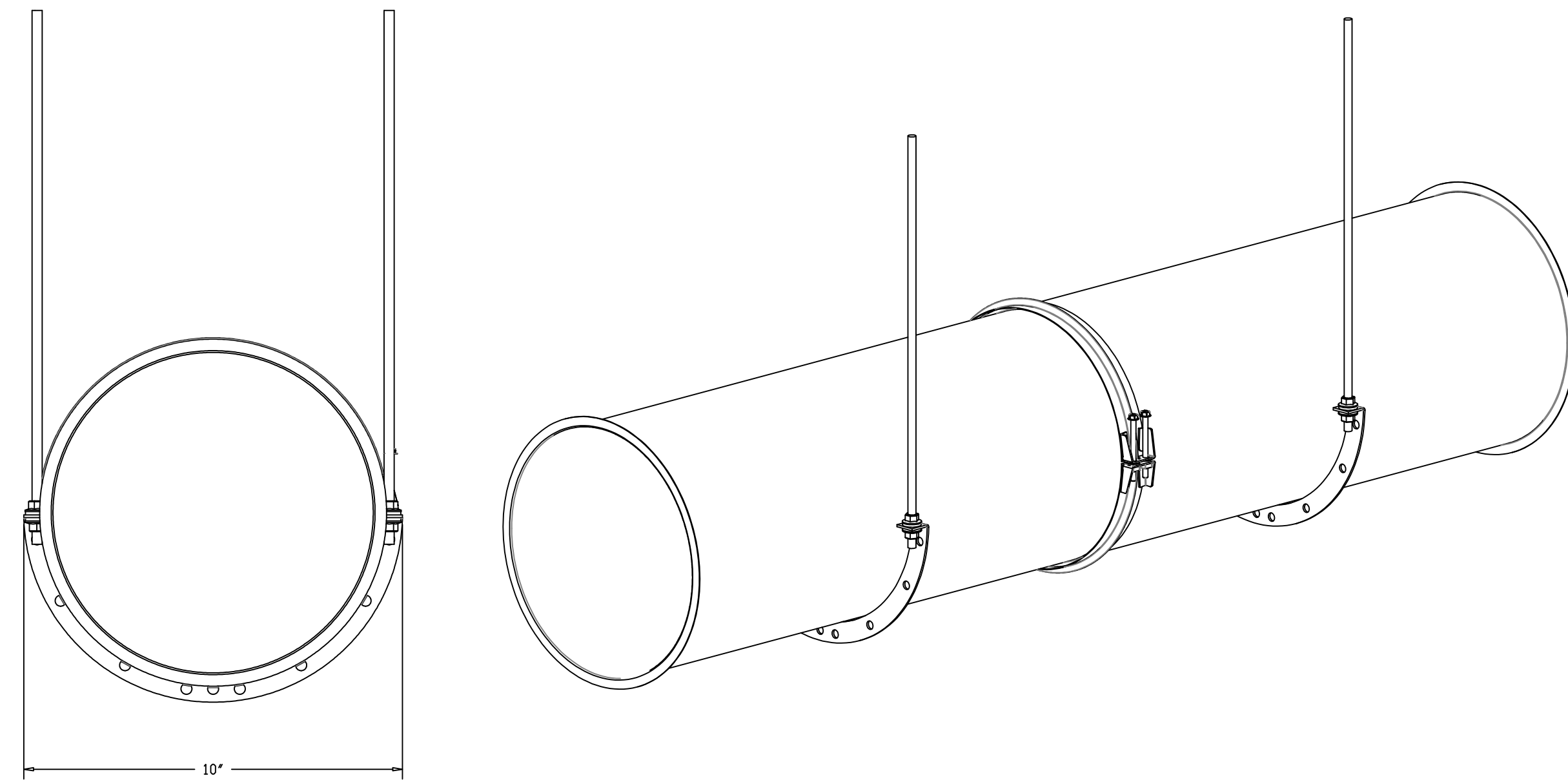
**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
22

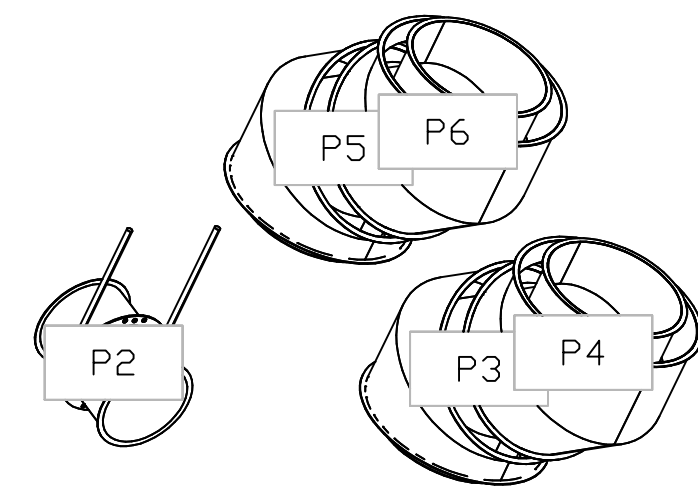
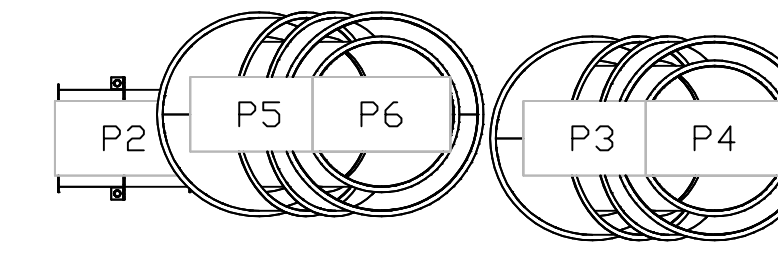
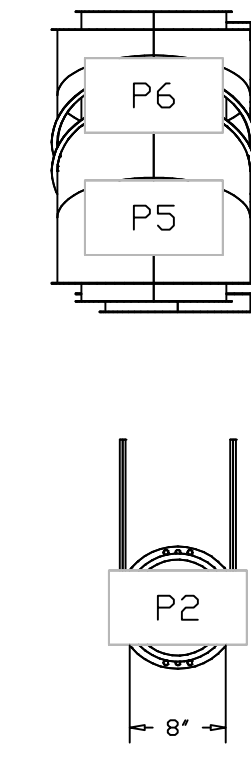
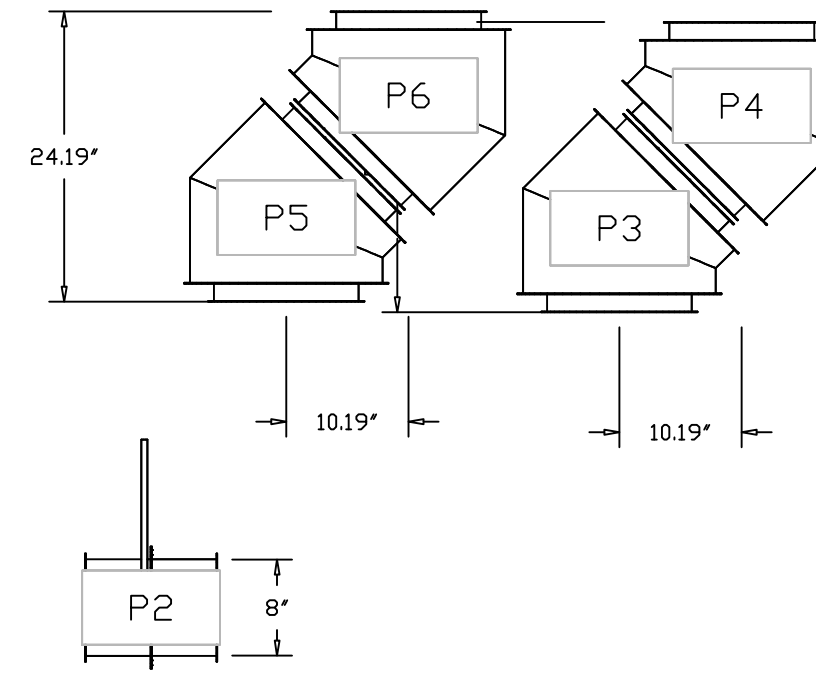
# SUPPORT SYSTEM DETAILS #3

## DW08SUBRASY - HORIZONTAL SUPPORT



DUCTWORK #3 SE VIEW  
ADD DUCT

DUCTWORK #3 FRONT VIEW ADD DUCT    DUCTWORK #3 SIDE VIEW ADD DUCT    DUCTWORK #3 TOP VIEW ADD DUCT



| REVISIONS   |      |
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| DESCRIPTION | DATE |
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# CAPTIVE AIR

CULVERS GOLF FL  
 4860 Woolbright Road,  
 Golf, FL, 33436

DATE: 10/8/2025  
 DWG.#: 7432301  
 DRAWN BY: sluddy jr  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO.  
 23

SYSTEM DESIGN VERIFICATION (SDV)

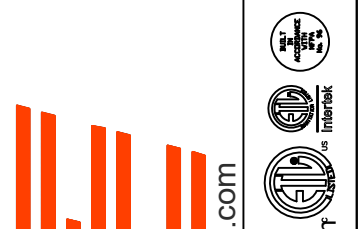
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

**REVISIONS**

| DESCRIPTION | DATE: |
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7432301

**DRAWN BY:** sluddy jr

**SCALE:**  
3/4" = 1'-0"

**MASTER DRAWING**

**SHEET NO.**  
24