

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

HOOD INFORMATION - JOB#7372582

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	END TO END	HOOD CONFIG ROW	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL				SP
1	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
2	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
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

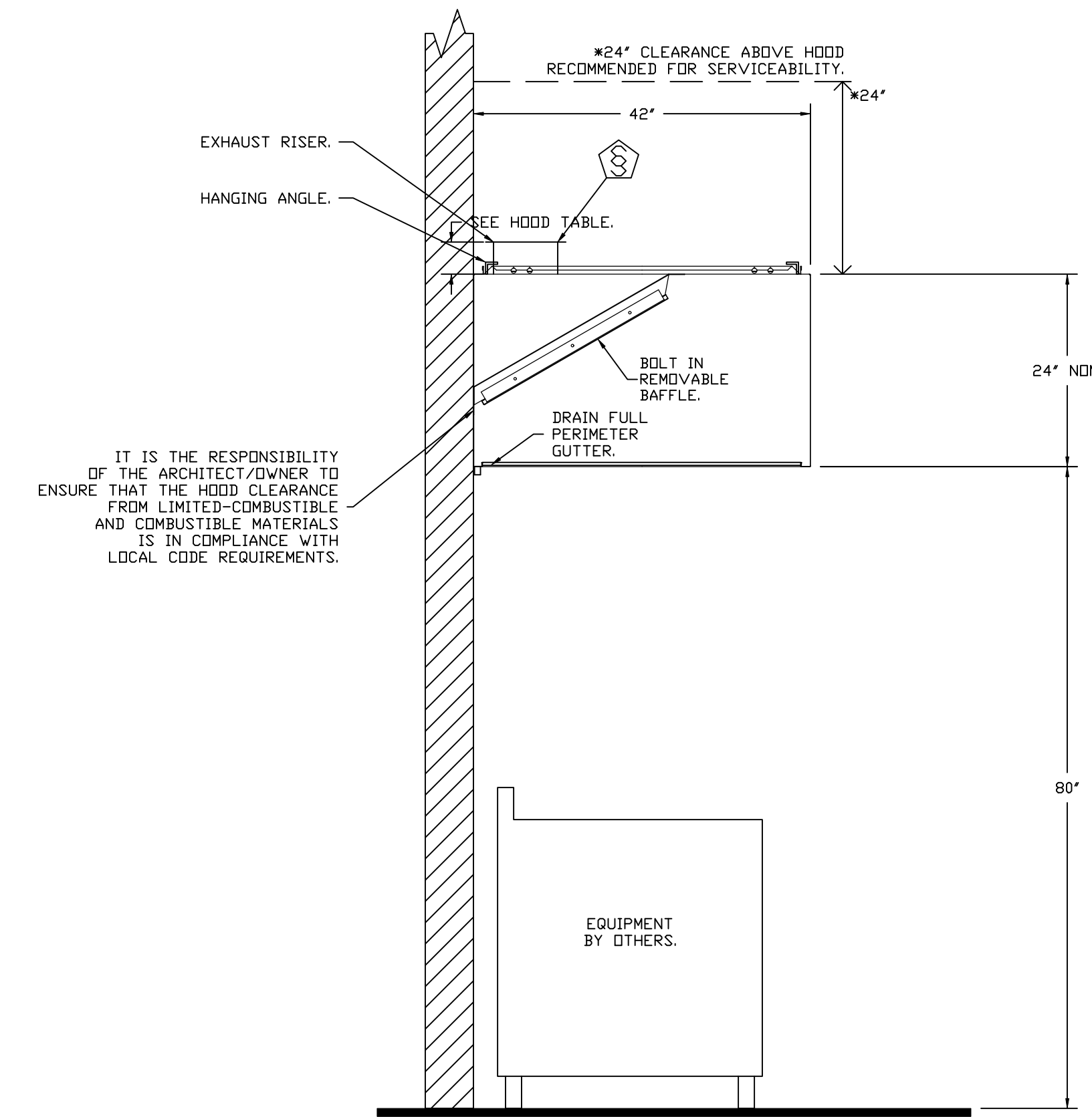
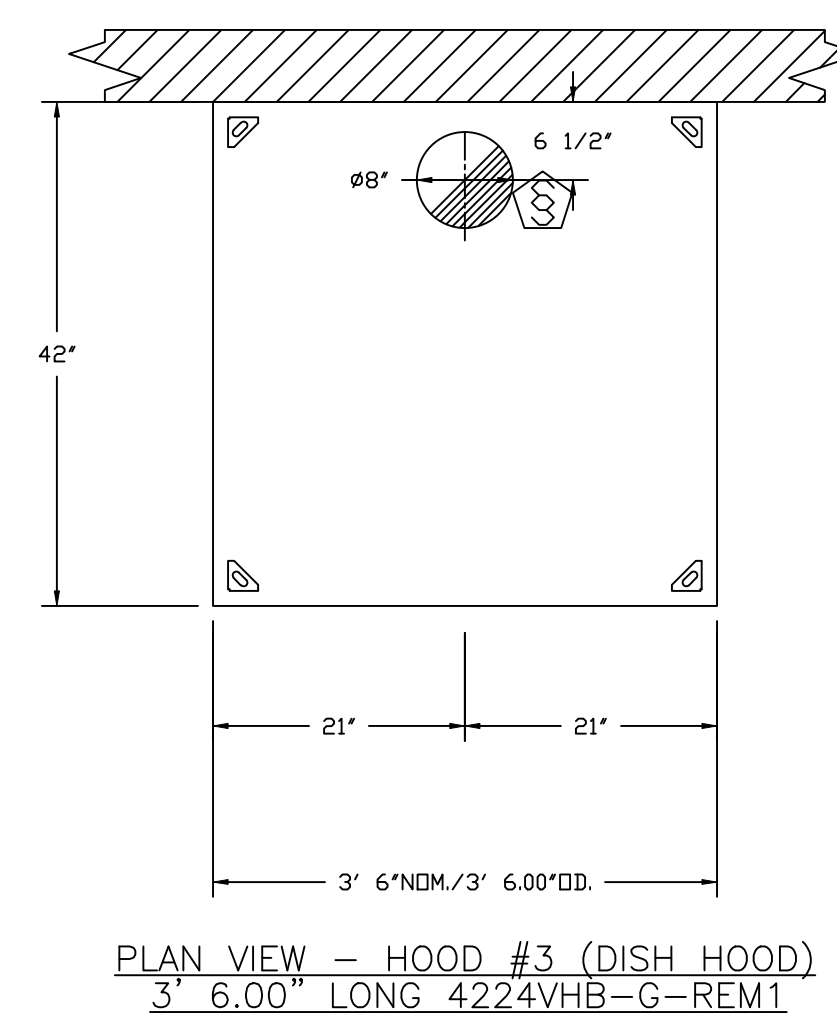
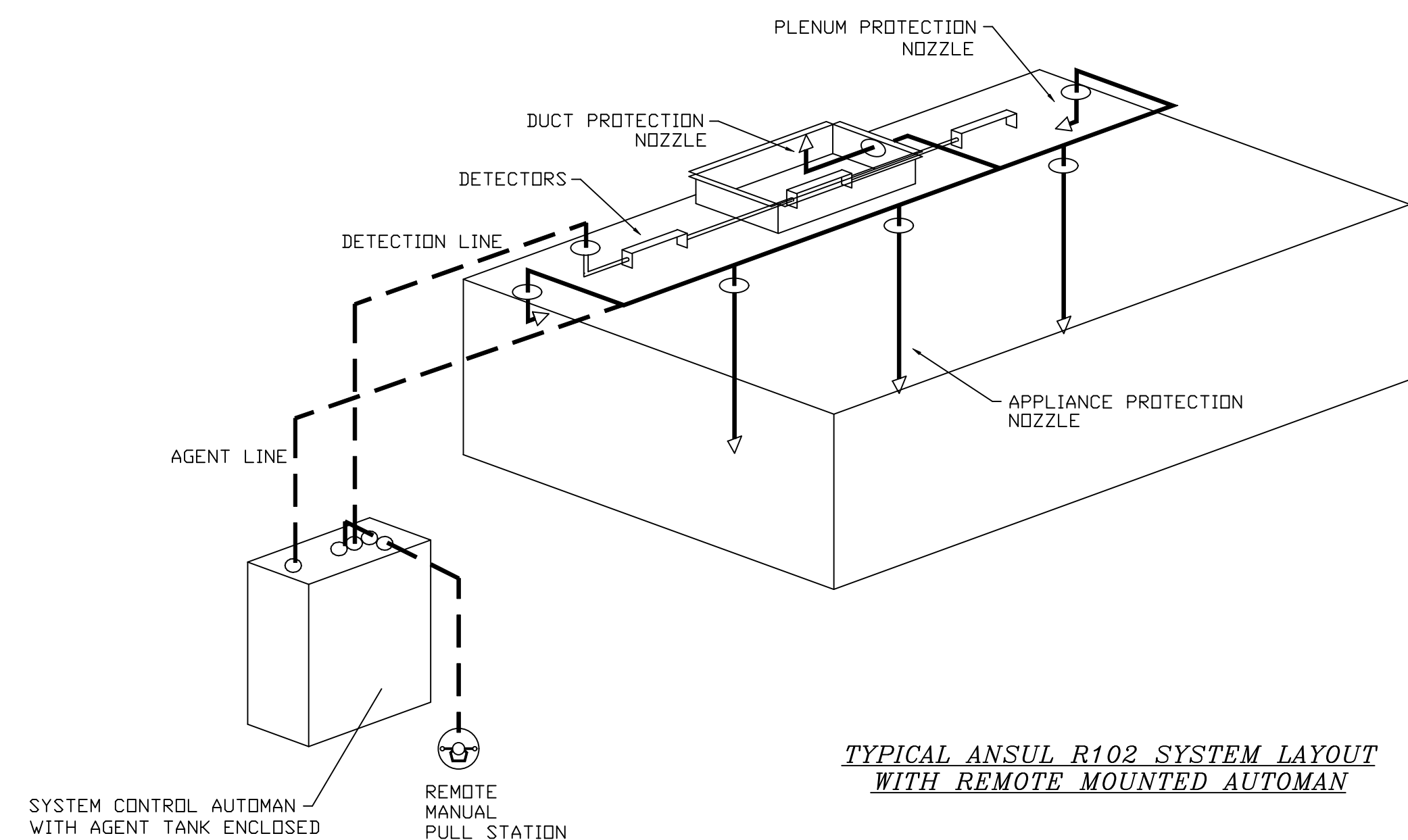
HOOD NO	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	ELECTRICAL MODEL #		
1	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO					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

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	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.
2	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.

FIRE SYSTEM INFORMATION - JOB#6346059

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	22	14	WALL MOUNT LEFT	N/A
2		ANSUL R102	3.0	11	6	WALL MOUNT LEFT	N/A



SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

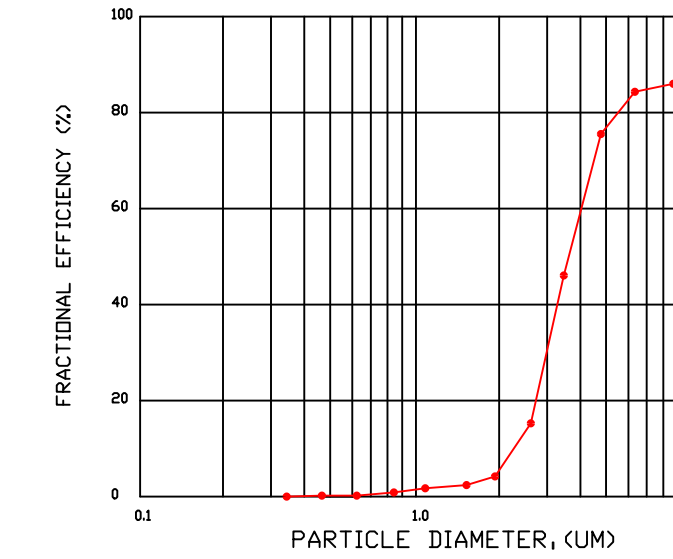
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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

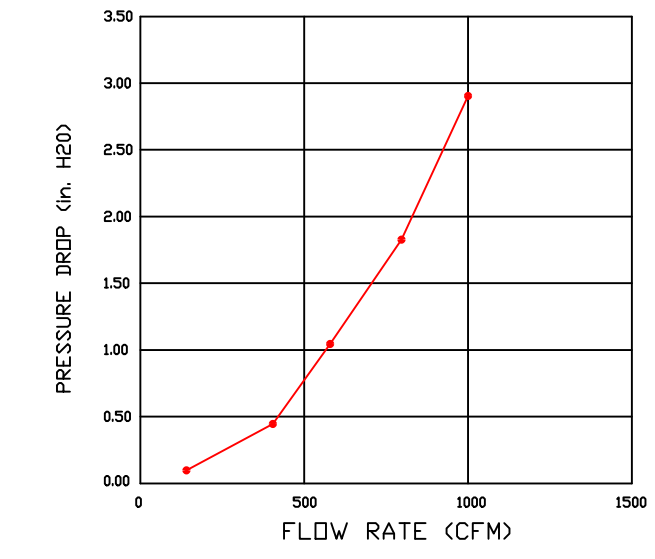
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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.

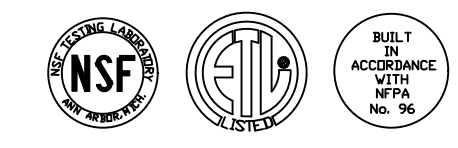
EFFICIENCY VS. PARTICLE DIAMETER



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 MELBOURNE FL
 MELBOURNE, FL, 32935

DATE: 8/5/2025
 DWG.#: 7372582
 DRAWN BY: sluddy jr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
 1

OUTSIDE AIR CALCULATIONS:

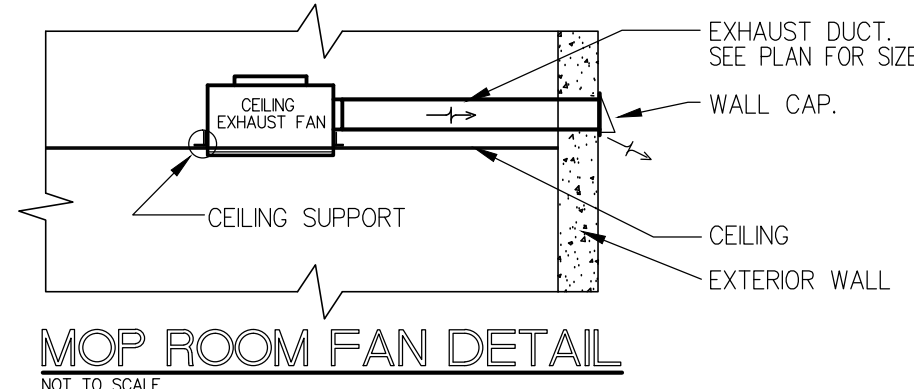
RESTAURANT DINING ROOM OCCUPANCY:
 NET OCCUPIABLE SPACE = 1835 SQ. FT.
 TOTAL PERSONS X 15' + 10' X NET SQ. FT. = REQ'D CFM.
 1835 x 15 = 27525 CFM
 CUSTOMER SEATING: 121 PERSONS
 STAFF: 20 PERSONS
 TOTAL PERSONS X 15' + 10' X NET SQ. FT. = REQ'D CFM.
 (141 x 15) + (10 x 1835) = 13815 CFM REQUIRED.
 OUTSIDE AIR PROVIDED:
 RTU-1 - 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 1500 CFM WHICH IS 83416 CFM MORE THAN REQUIRED. THE KITCHEN OUTSIDE AIR IS 1800 CFM WHICH IS 163009 CFM MORE THAN REQUIRED. TOTAL OUTSIDE AIR FOR BOTH ZONES IS EXCEEDED.

RESTAURANT KITCHEN OCCUPANCY:
 NET OCCUPIABLE SPACE = 1415 SQ. FT.
 TOTAL PERSONS X 15' + 12' X NET SQ. FT. = REQ'D CFM.
 1415 x 12 = 16980 CFM
 KITCHEN STAFF: 20 PERSONS
 TOTAL PERSONS X 15' + 12' X NET SQ. FT. = REQ'D CFM.
 (20 x 15) + (12 x 1415) = 3192 CFM REQUIRED.
 OUTSIDE AIR PROVIDED:
 RTU-2 - 2,000 CFM
 TOTAL: 2,000 CFM - IN COMPLIANCE.

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 218 SQ. FT. TOTAL CONDITIONED SQUARE FOOTAGE IS 3984 SQ. FT.



NOTE:
 THE DESIGN, INSTALLATION, OPERATION, INSPECTION AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COMMERCIAL COOKING EQUIPMENT SHALL COMPLY WITH CHAPTER FFC 150.11 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.

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

NOTE:
 THE ACCUREX HOODS AND FANS HAVE FACTORY INSTALLED TEMPERATURE SENSORS INTERLOCKED WITH FANS TO ACTIVATE THE RESPECTIVE EXHAUST FAN NOT MORE THAN 15 MINUTES AFTER THE FIRST APPLIANCE HAS BEEN TURNED ON IN ACCORDANCE WITH SECTION 507.11 OF THE FBC MECHANICAL, EIGHTH EDITION.

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. PRV-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. PRV-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 DOWN 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 '5' ON SHEET M2.
11. STAINLESS STEEL WALL PANEL AT HOOD, FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
12. PRV-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 3/4 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 HEREIN 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.

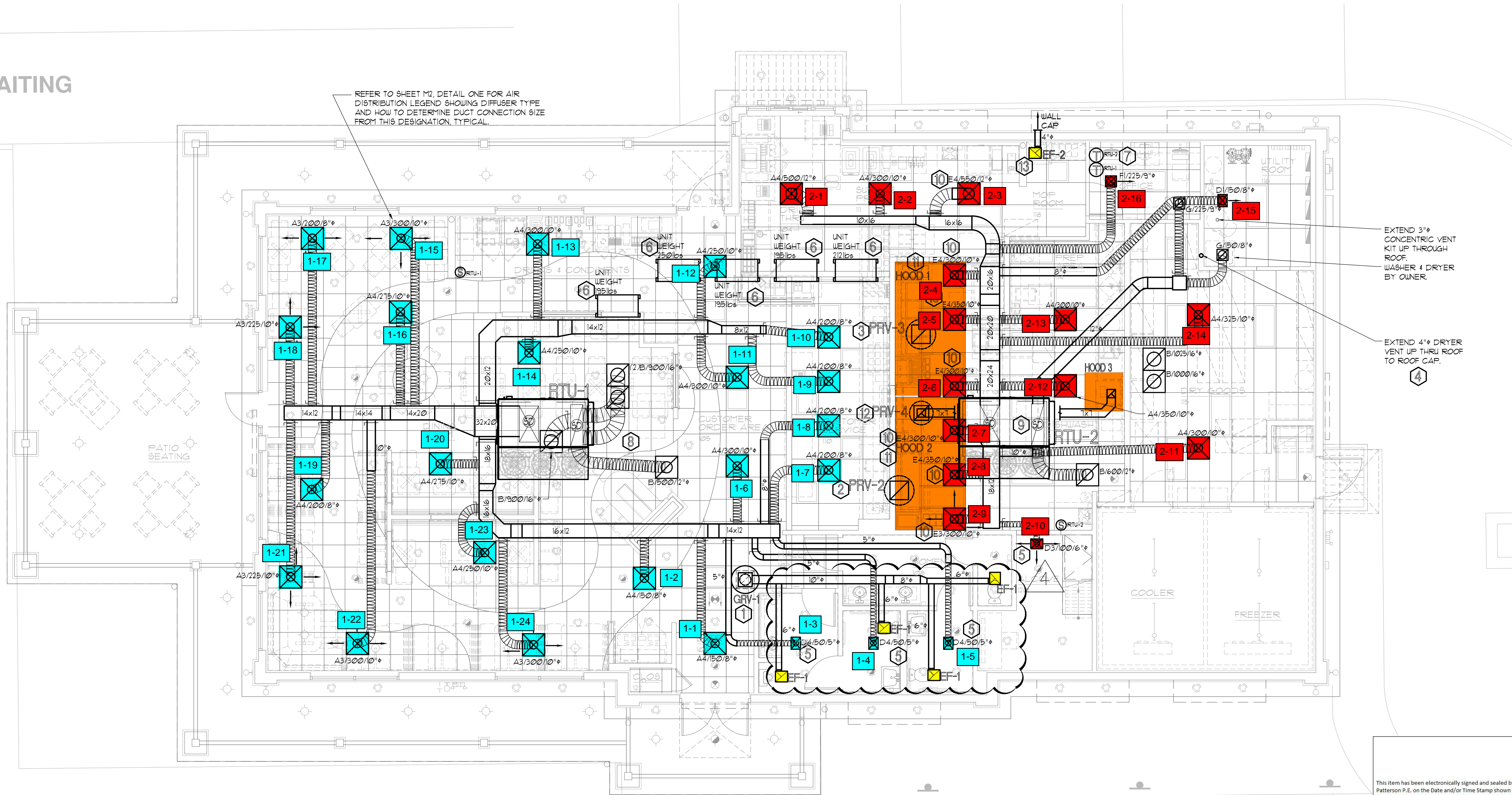
BUILDING AIR BALANCE SCHEDULE

POSITIVE SOURCES:	NEGATIVE SOURCES:
RTU-1: 2,000 CFM	(3-EF-1 - 10 EA): 210 CFM
RTU-2: 2,000 CFM	EF-2: 50 CFM
	FRV-1: 1500 CFM
	FRV-3: 1500 CFM
	FRV-4: 350 CFM
TOTAL: 4,000 CFM	TOTAL: 3,610 CFM
RESULTING TOTAL AIR BALANCE: 390 CFM POSITIVE	

HYAC LEGEND

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

R WAITING



This item has been electronically signed and sealed by Garland Patterson P.E. on the Date and/or Time Stamp shown by using a digital signature.
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REVISIONS	BY
1	01.24.25 BMD
4	08.11.25 BMD

OLIVERI ARCHITECTS
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 Phone 727.781.7255
 www.oliveriarchitects.com

STATE OF FLORIDA
 PROFESSIONAL ENGINEERS
 GARLAND PATTERSON, P.E.
 FL Lic. No.: 14175
 AUG. 11, 2025

MDCI FLORIDA, INC.
 Engineering Business No. 9204-B
 5000 N. Wickham Road, Suite 300
 Melbourne, FL 32909
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New Free Standing
Carver
 N. Wickham Road
 Melbourne, FL
 Brevard County

Date: 12.20.24
 Scale: AS NOTED
 Project Mgr: SEH
 Drawn: BMD
 Job: 24-049
 Sheet
M1

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 4 RTU-2, EXHAUST FANS PRV-2, 3, 4 4 TO RUN CONTINUOUSLY. RESTROOM EXHAUST TO BE INTERLOCKED WITH RR LIGHTS.
- UNOCCUPIED MODE: FANS IN RTU-1 4 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 (EMU) 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 109)

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 (EMU) 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 "62F" (ROOM NEUTRAL) (PARAMETER 6.20 PAGE 93+ x CHARTS PAGE 109)

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@captiveaire.com

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

CONTACT Phillip Kraft @ 1-262-227-7865 or phillip.kraft@accurex.com

Secondary contact: Brad Borchardt 1-715-551-0809 brad.borchardt@accurex.com or Andy Jacobs andy.jacobs@accurex.com

ACCUREX WILL PROVIDE BALANCED AIRFLOW AND FUNCTIONAL CHARACTERISTICS OF THE HVAC AS THEY RELATE TO AIRFLOW AND RESISTANCE ONLY. SERVICES TO BE PERFORMED BY A CERTIFIED NEBB FIRM AND ITS MANAGING GROUP - NATIONAL TAB

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.**

PRV - 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.**

PRV - 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.**

PRV - 4

(ITEM #29)

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

4

ACCUREX MODEL XCR-B80 CEILING EXHAUST FAN, BACK DRAFT DAMPER. EXTEND EXHAUST DUCT TO GRAVITY RELIEF VENTILATOR. **75 CFM AT .100" 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.

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**. **NO SUBSTITUTIONS.**

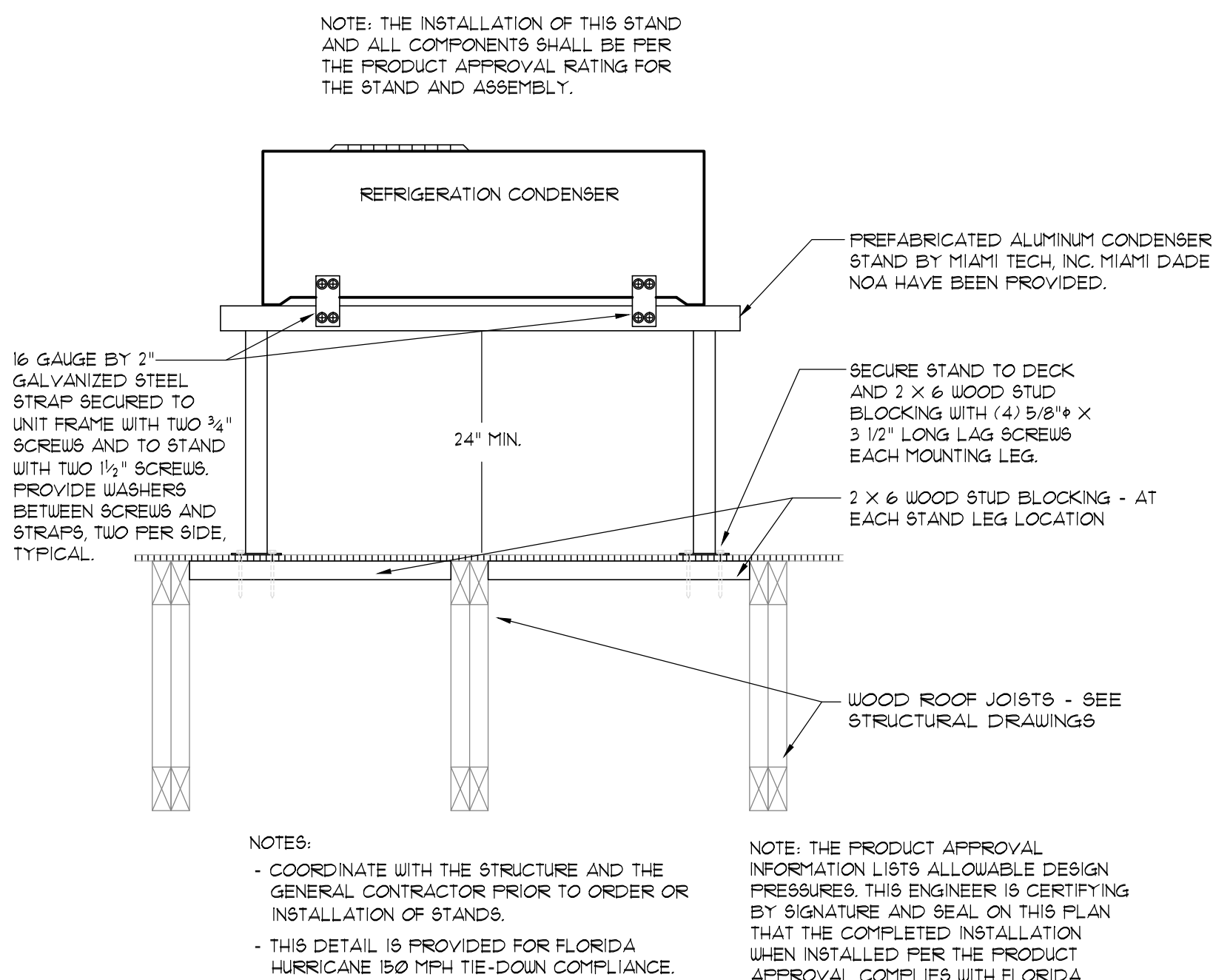
ITEM #25A

(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.**

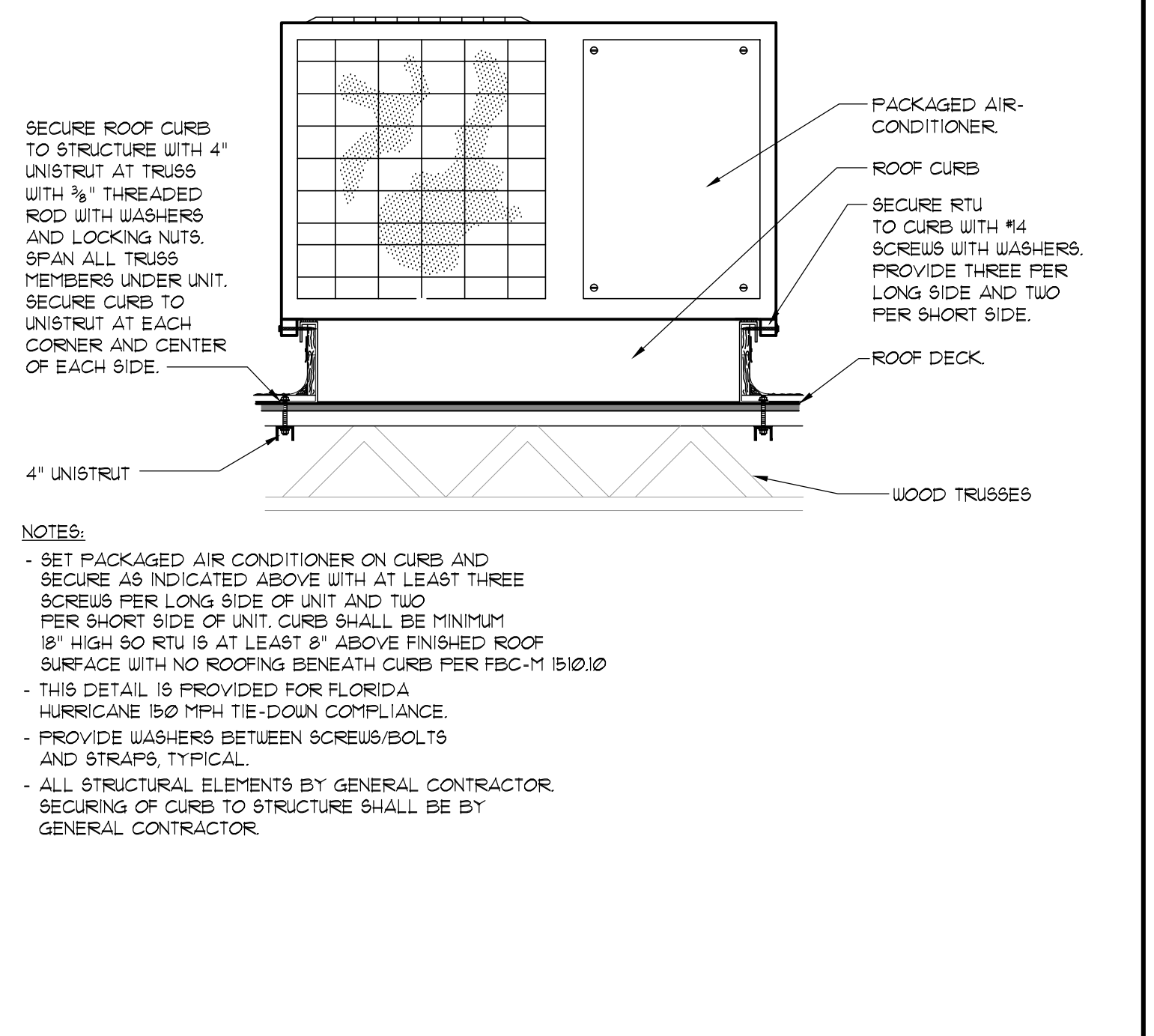
MECHANICAL EQUIPMENT SPECIFICATIONS

SCALE: NONE



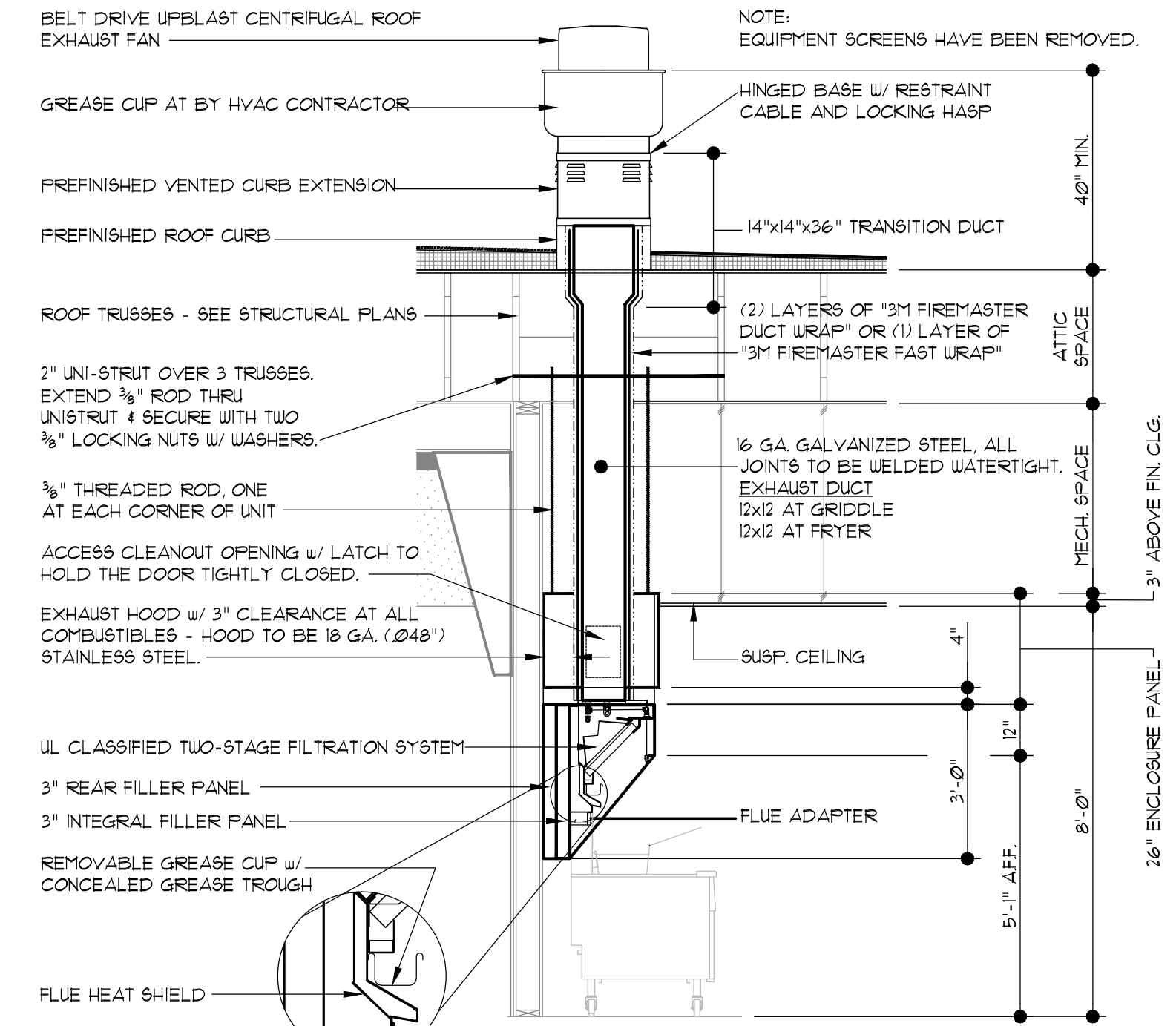
REFRIGERATION CONDENSER TIE-DOWN DETAIL

SCALE: NONE



RTU TIE-DOWN DETAIL

SCALE: NONE



KITCHEN HOOD DETAIL

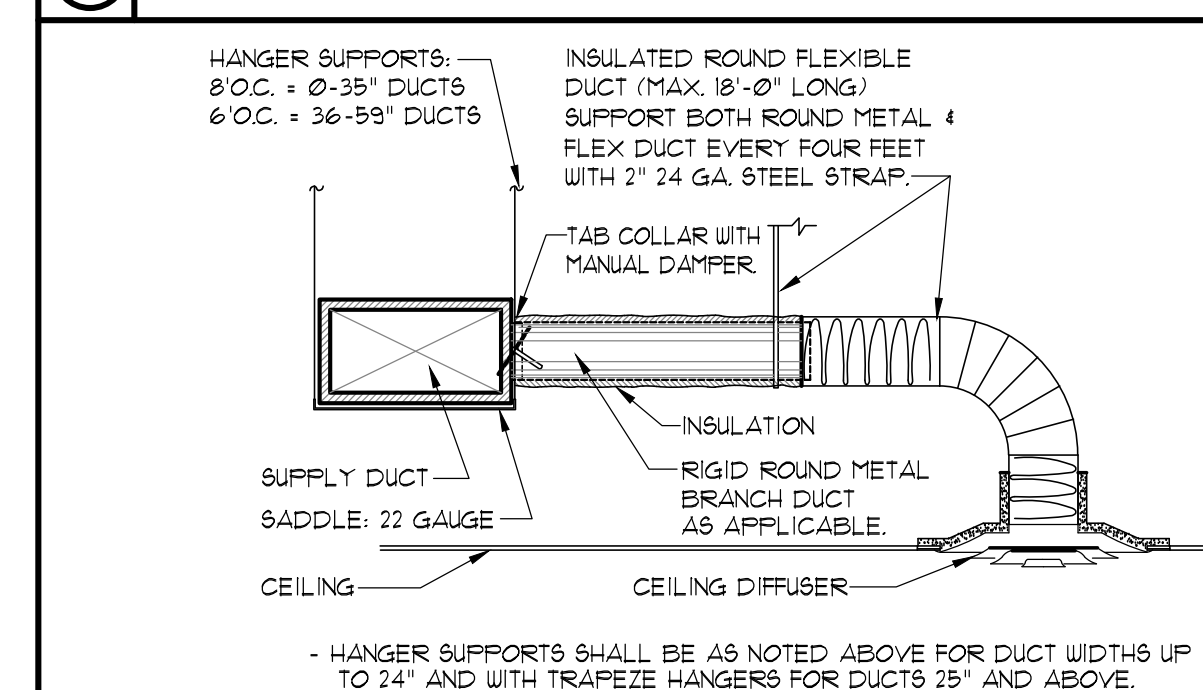
SCALE: NONE

MARK	MANUFACTURER	MODEL NUMBER	SIZE	CFM	NECK	LOCATION	MATERIAL	NOTES
A	FRICE	ABCD	24 X 24	SEE PLAN	SEE PLAN	CEILING	ALUMINUM	12
B	CARNES	RAPIFF	24 X 24	SEE PLAN	24 X 24	CEILING	ALUMINUM	12.7.8
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	12.4.5.6
E	CARNES	SPRS	24 X 24	SEE PLAN	PER PLAN	CEILING	STEEL	12.9
F	FRICE	6302	12 X 12	SEE PLAN	12 X 12	CEILING	ALUMINUM	12

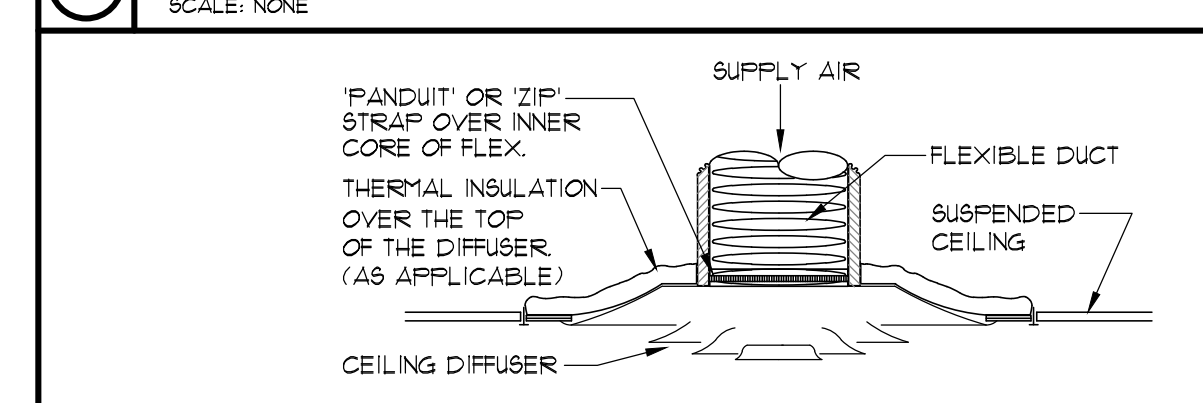
NOTES:

- PROVIDE MANUAL VOLUME DAMPER AT MAIN TRUNK FOR BALANCING.
- GRILLE FACE FINISH SHALL BE OFF-WHITE.
- GRILLE FACE SHALL BE FIXED BLADE ON 3/4" SPACING WITH FILTER BACK.
- PROVIDE PRE-FAB 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

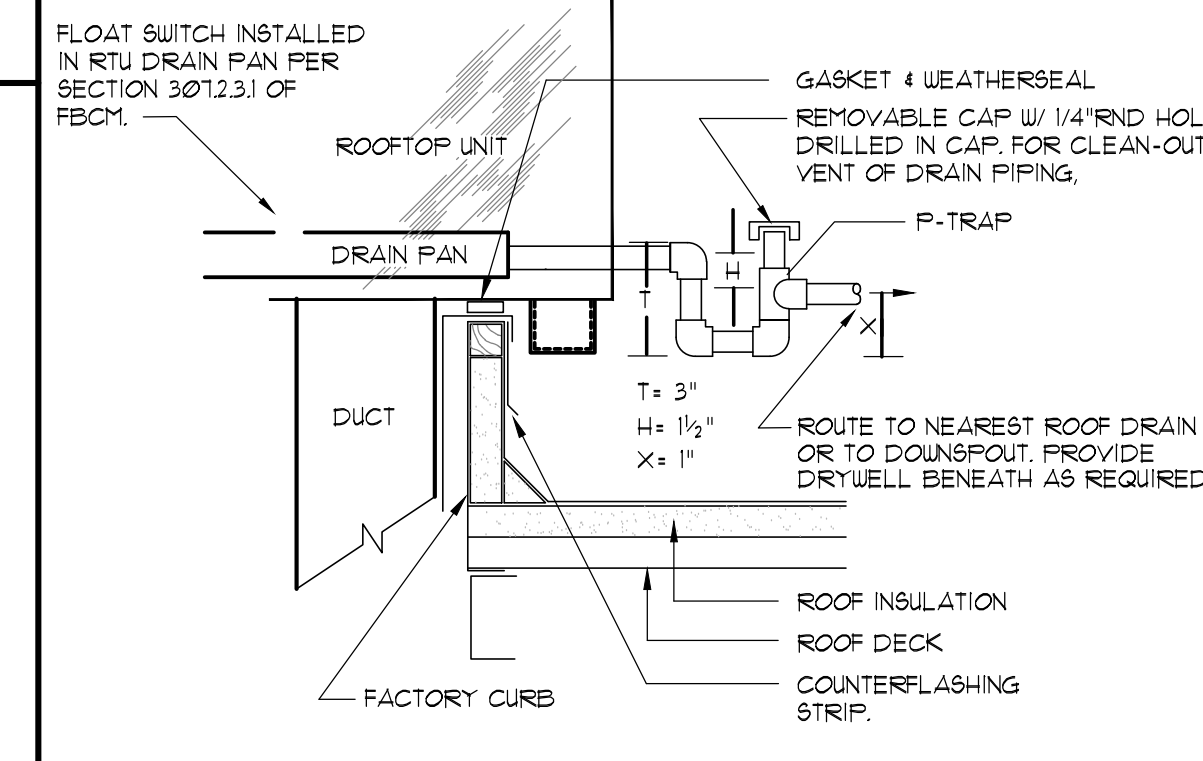


CEILING DIFFUSER RUN-OUT DETAIL



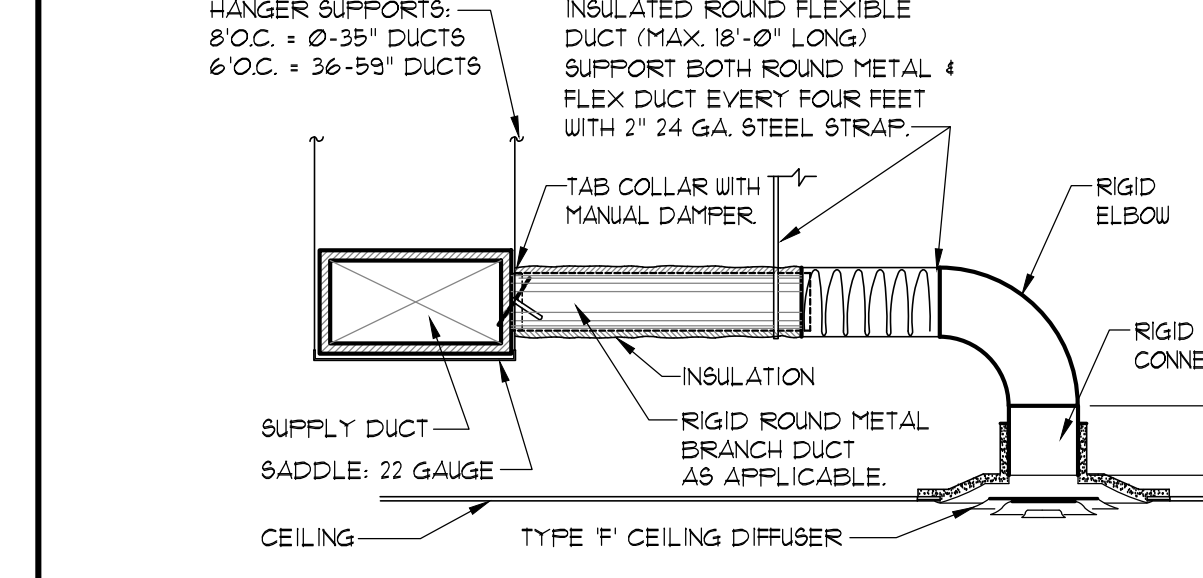
CEILING DIFFUSER DETAIL

SCALE: NONE



RTU CONDENSATE DETAIL

SCALE: NONE



TYPE 'E' CEILING DIFFUSER RUN-OUT DETAIL

SCALE: NONE

REVISIONS	BY	
1	01.24.25	BMD
4	08.11.25	BMD

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AUG. 11, 2025

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New Free Standing
N. Wickham Road
Melbourne, FL
Brevard County

Date:	12.20.24
Scale:	AS NOTED
Project Mgr:	SEH
Drawn:	BMD
Job:	24-049
Sheet	M2

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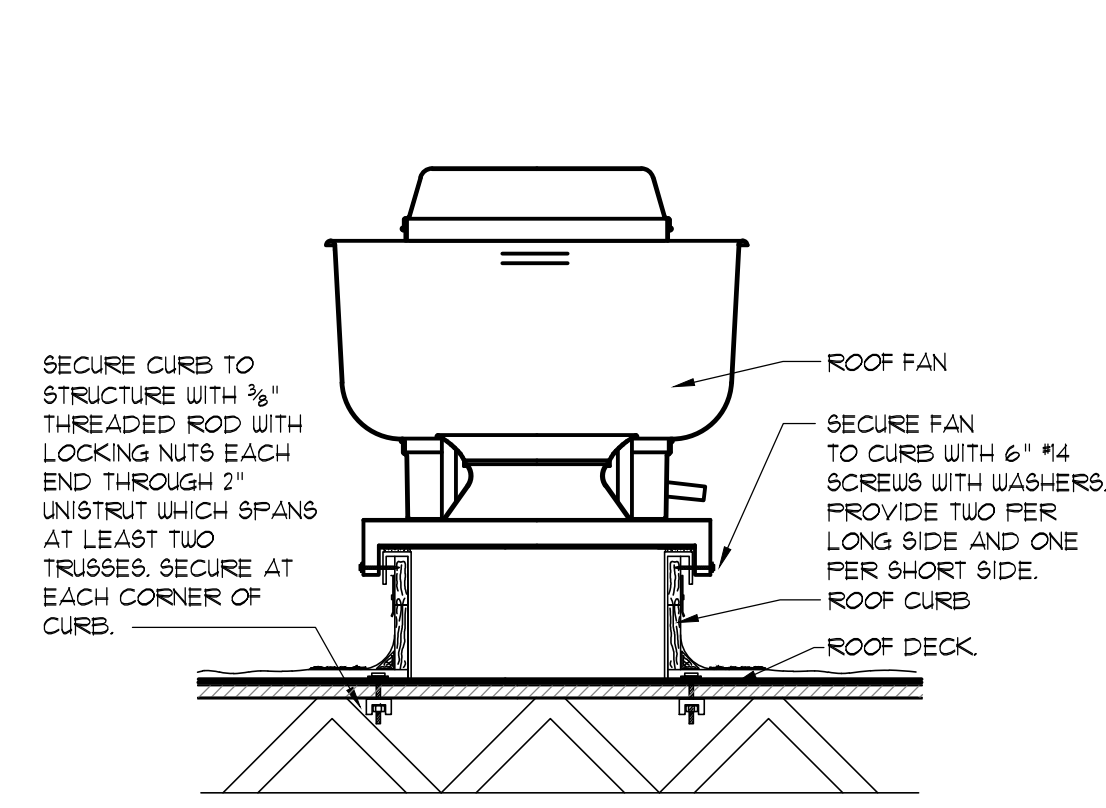
FLORIDA PROFESSIONAL ENGINEERS
 GARLAND PATTERSON, P.E.
 FL Lic. No. 14175
 DEC. 20, 2024

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 Safety Harbor, Florida 34686
 Engineering Business No. 97024
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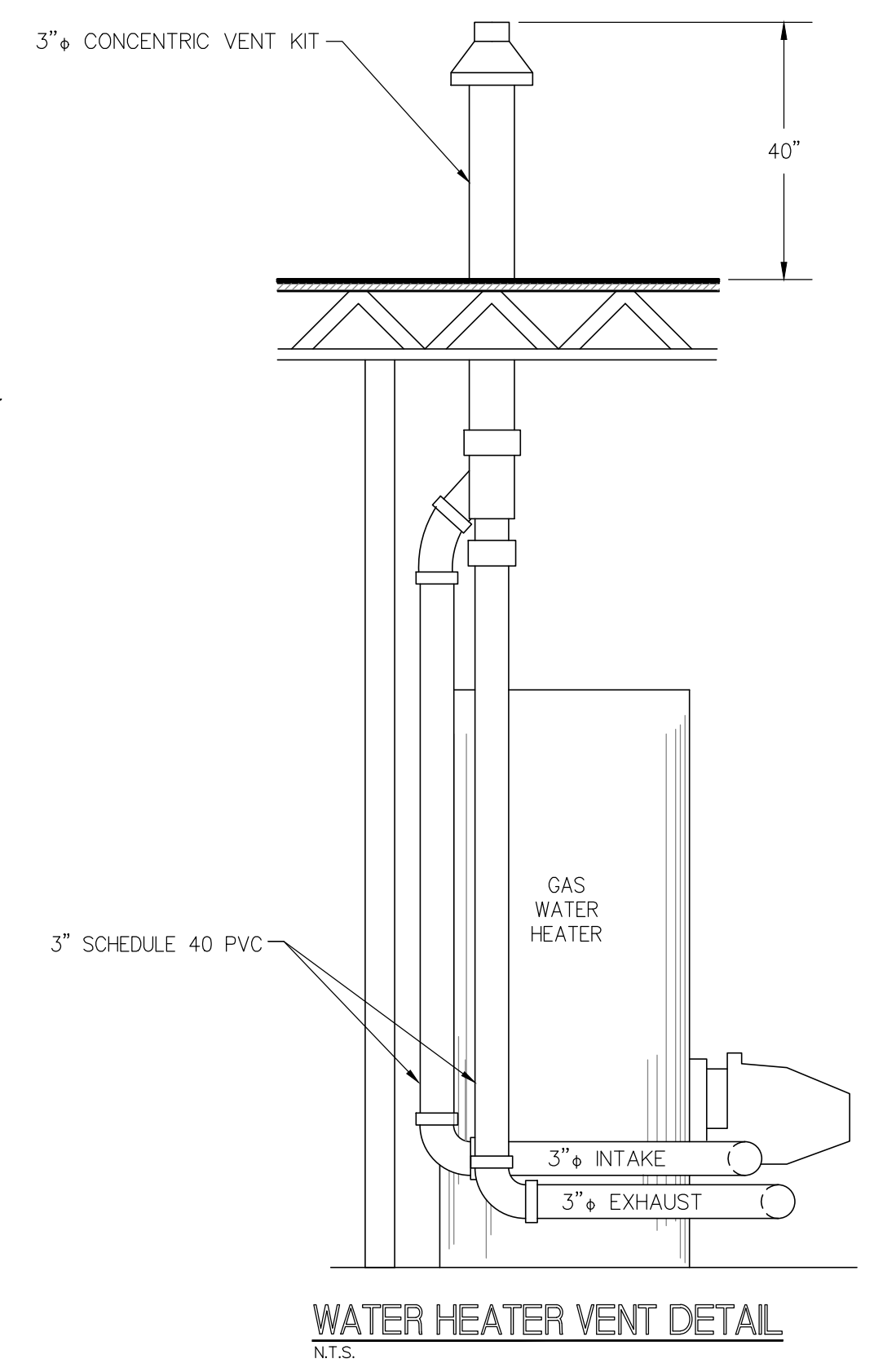
Date:	12.20.24
Scale:	AS NOTED
Project Mgr:	SEH
Drawn:	BMD
Job:	24-049
Sheet	M4

NOTE:
 THE DESIGN, INSTALLATION, OPERATION, INSPECTION, AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COMMERCIAL COOKING EQUIPMENT SHALL COMPLY WITH CHAPTER FPFC 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.

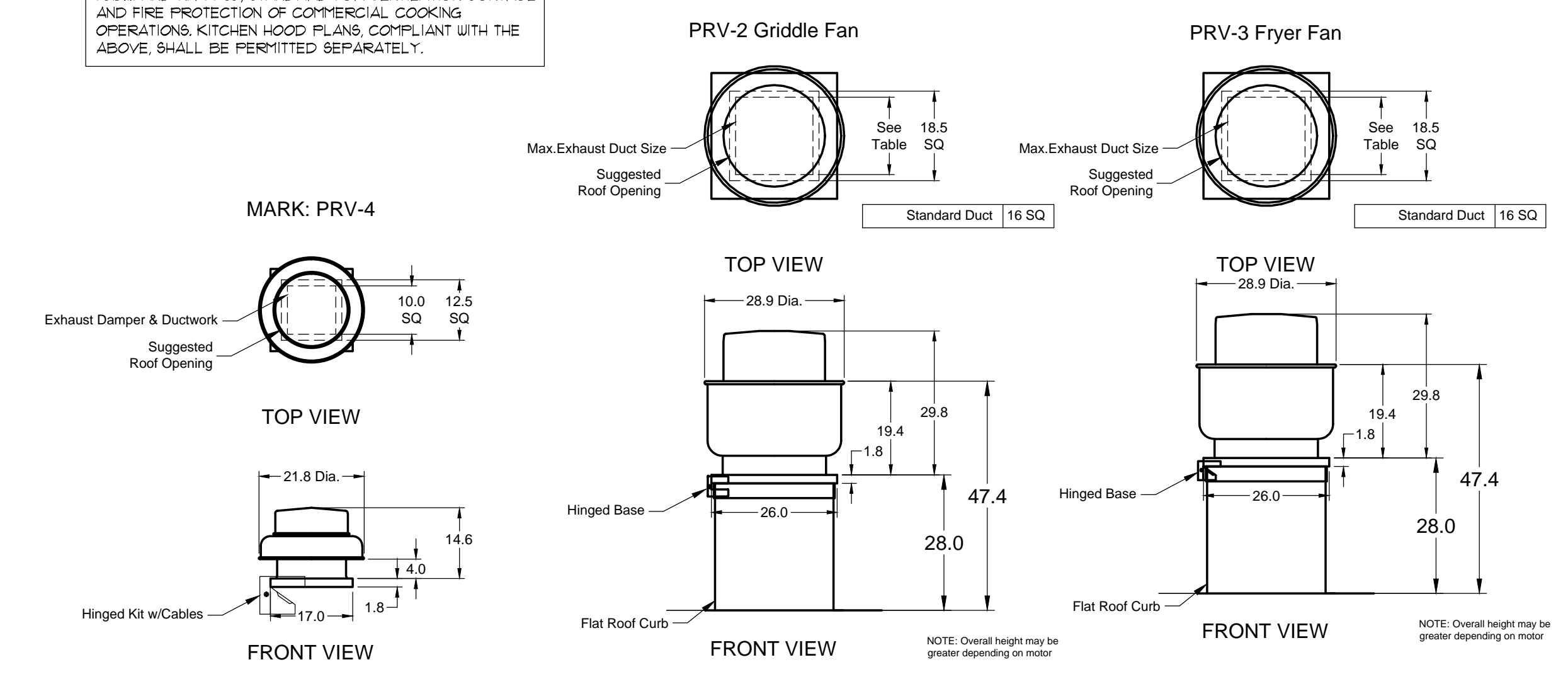


ROOF-TOP FAN TIE-DOWN DETAIL
 NOT TO SCALE

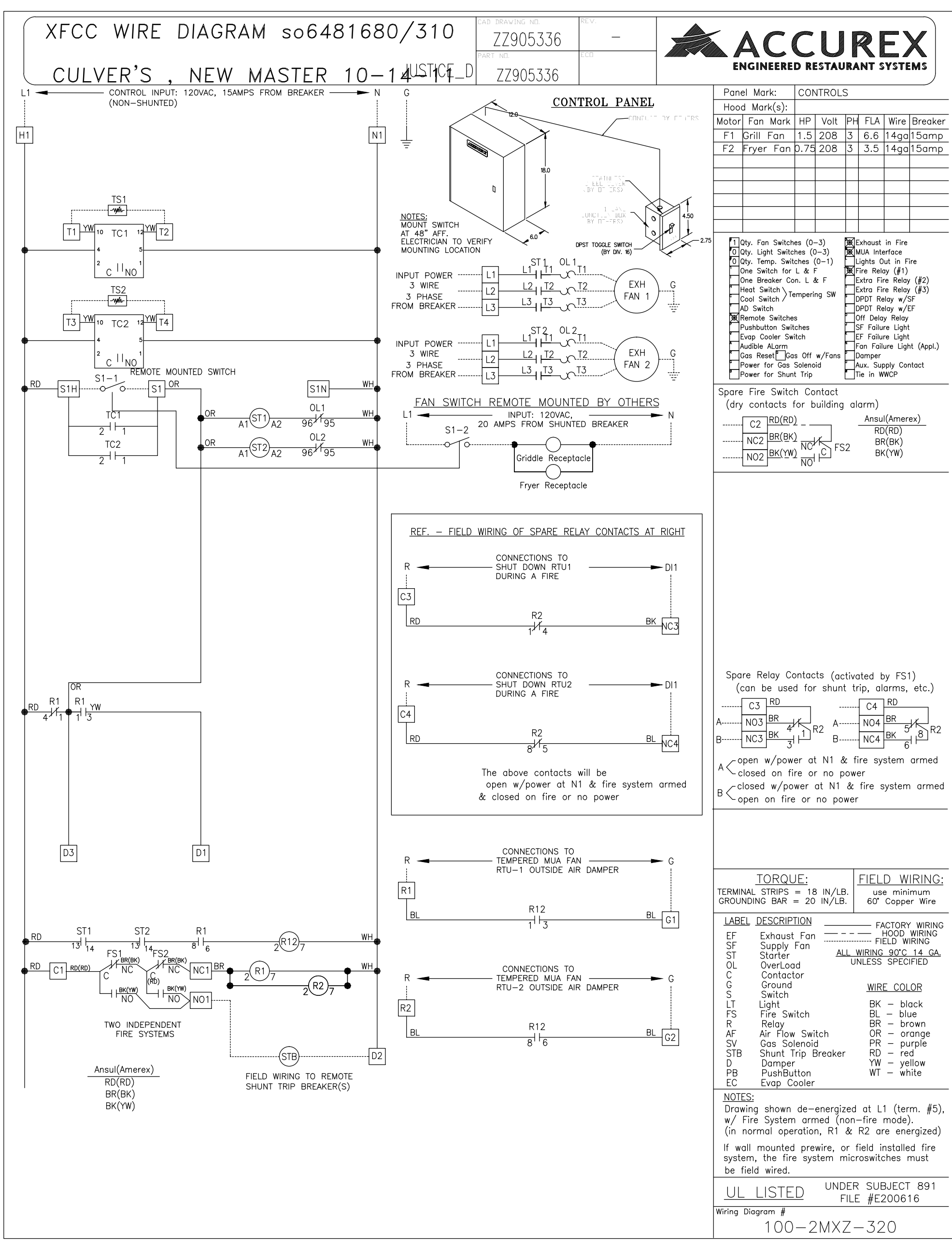
- NOTES:
- THIS DETAIL IS PROVIDED FOR FLORIDA HURRICANE 146 MPH TIE-DOWN COMPLIANCE.
 - PROVIDE WASHERS BETWEEN SCREWS/BOLTS.



WATER HEATER VENT DETAIL
 N.T.S.



NOTE: Overall height may be greater depending on motor



Motor	Fan Mark	HP	Volt	PH	FLA	Wire Breaker
F1	Grill Fan	1.5	208	3	6.6	14ga15amp.
F2	Fryer Fan	0.75	208	3	3.5	14ga15amp.

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/C/P	Enct.	Motor RPM	Windings	FLA
1	XRED-090-D	350	0.6	1532	0.072	27	0.0667	115/60/1	OP	1550	1	NA

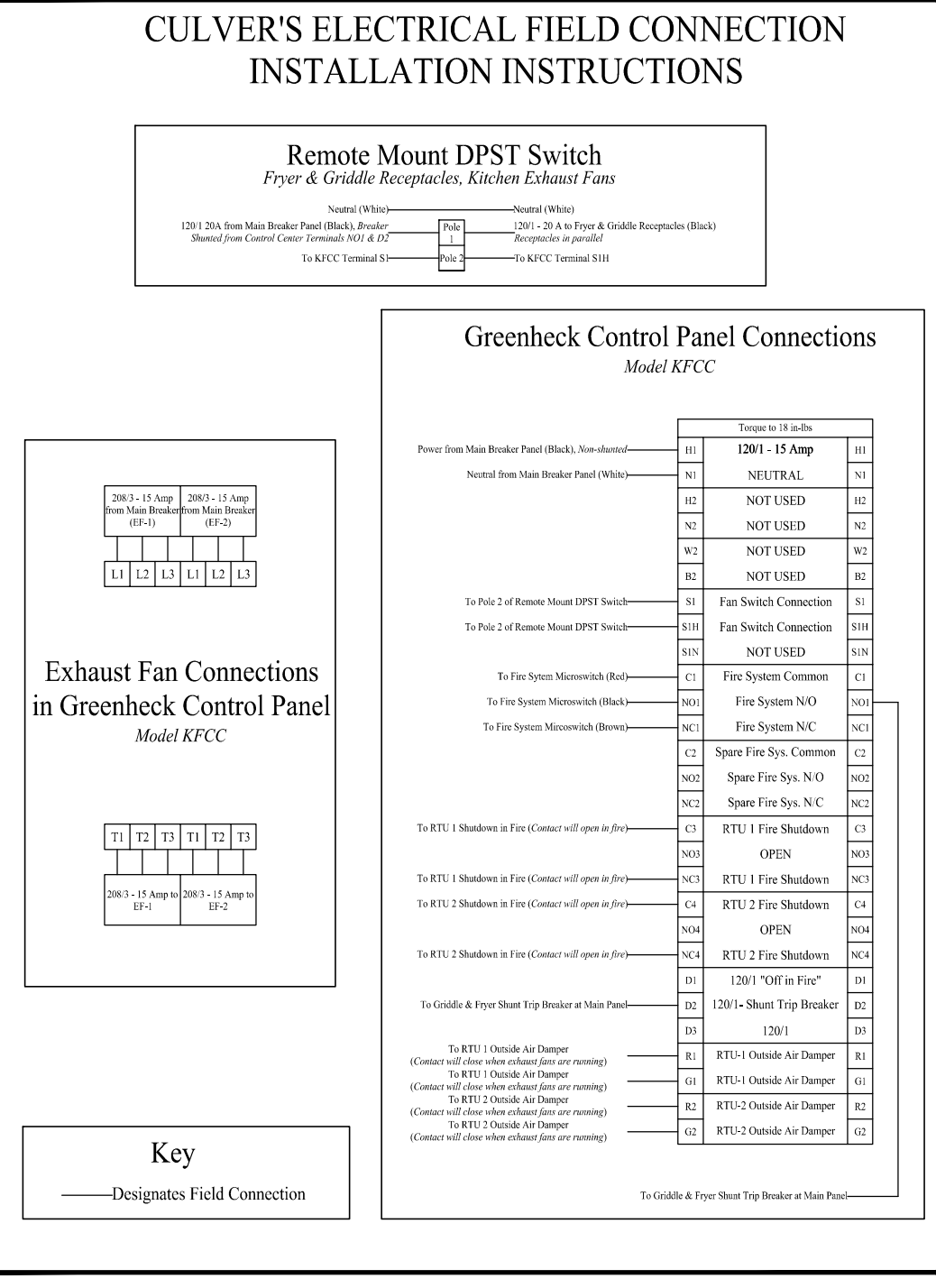
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/C/P	Enct.	Motor RPM	Windings	FLA
1	XRUB-161XP-15	1500	2.337	2,411	1.29	171	1.5	208/60/3	OP	1725	1	6.6

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/C/P	Enct.	Motor RPM	Windings	FLA
1	XRUB-141-7	1500	1	1377	0.5	160	0.75	208/60/3	OP	1725	1	3.5

Model	Volume (CFM)	SP (in wg)	FAN RPM	WEIGHT (LB)	MOTOR SPECS
SPA-110	100	0.10	700	9	.31 115/60/1

UL/CUL	Model	Volume (CFM)	SP (in wg)	FAN RPM	WEIGHT (LB)	MOTOR SPECS
UL/CUL-507	-	100	0.10	700	9	.31 115/60/1

UL LISTED UNDER SUBJECT 891 FILE #E200616
 Wiring Diagram # 100-2MXZ-320



Culver's Installation and Operation Guide
 Greenheck Control Panel and Exhaust Fan & Receptacle Switch

Mechanical Scope of work

- Mechanical contractor to mount Greenheck Control Panel (Model KFCC, 12"W x 18"H x 6"W) in specified location above drop ceiling. PROVIDE DIFFERENT PANEL MODEL IF MODEL #FCC CANNOT ACCOMMODATE RTU-0A Mechanical Contractor to start up fans and electrical outlet by turning fan switch to the "ON" position. Verify power to fryer & griddle receptacles and exhaust fans.
- Mechanical Contractor to start up fans and electrical outlet by turning fan switch to the "ON" position. Verify power to fryer & griddle receptacles and exhaust fans.

Electrical Scope of Work

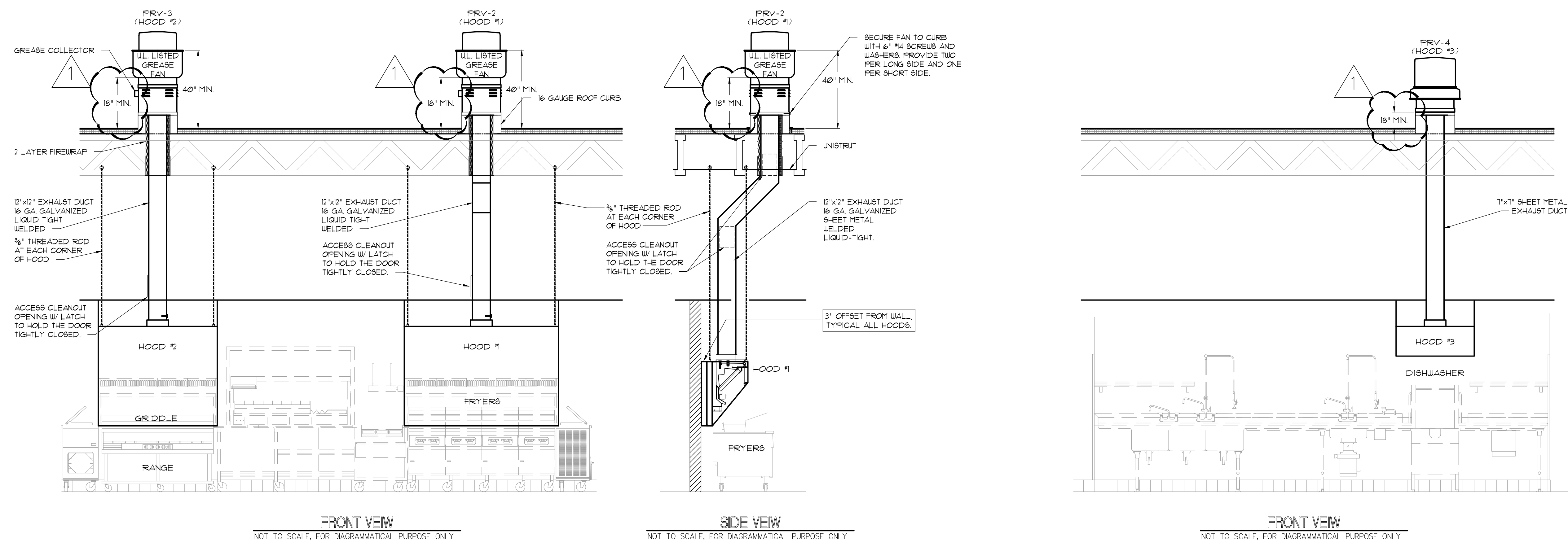
- Electrical contractor shall provide one 120 Volt - 20 Amp circuit with shunt trip breaker (120V trip) for fryer and griddle receptacles. This circuit will have two receptacles, one for the fryer and one for the griddle. Circuit will be controlled using a DPST (Double Pole Single Throw) switch for exhaust fan and electrical outlet control. Switch to be mounted on wall where specified on drawings.
- Electrical Contractor to provide and install DPST switch on wall. Wire one pole of switch to the receptacle outlet circuit. Wire other pole of DPST switch to terminals SH and ST in Greenheck Control Panel (Model KFCC) to complete fan control circuit.
- Electrical Contractor to run a separate 120 Volt - 15A circuit to terminals HI and NI to power the panel controls.
- Two 208/60/3 - 15A circuits must be run from the main breaker panel to each motor starter in the GREENHECK PANEL (L1, L2, & L3) Run power from Terminals T1, T2, & T3 on the bottom of motor starter in the panel to kitchen exhaust fans.
- Electrical Contractor to make connections from terminals NO1 and D2 (200 Volt normally open contact) to shunt-trip breaker for fryer and griddle receptacles.
- Electrical Contractor to wire fire system microswitch in fire system cabinet to terminals CI, NC1, and NO1 as indicated on Greenheck drawing.
- Electrical Contractor to wire RTU 1 & 2 damper control to terminals R1 and G1 and R2 and G2 as indicated on Greenheck drawing. PROVIDE SIMILAR CONTACTS FOR RTU-0A.
- Electrical Contractor to wire RTU 1 & 2 RTU-0A control (10 amp max) circuits to panel dry contacts C3 and NC3 for RTU 1 and C4 and NC4 for RTU 2 to shutdown units in a fire. PROVIDE CONTACTS FOR RTU-0A.

Sequence of Operation

- Turn fan switch on. Fans and fryer and griddle receptacles will be energized.
- Turn on RTU 1 & RTU 2, RTU-0A.
- Before fire system agent tanks are installed, manually trigger fire system while fan switch is on. This should accomplish the following:
 Shunt trip breaker will trip causing a loss of power to fryer and griddle receptacles.
 Gas valve will close shutting gas off to the fryer and griddle.
 Exhaust fans will remain on.
 RTU-1, RTU-2, & RTU-0A will shut down.
 (In normal operation, R1 & R2 are energized)

- Put fire system in the "cooked" position and reset shunt trip breaker. Power will be restored to equipment and RTUs.
- Turn fan switch to "OFF" position. This will shut down power to receptacles and exhaust fans. RTU-0A will shut down and outside air dampers will close. RTUs 1 & 2 will remain operational providing 100% return air only.

REVISIONS	BY
1	BMD

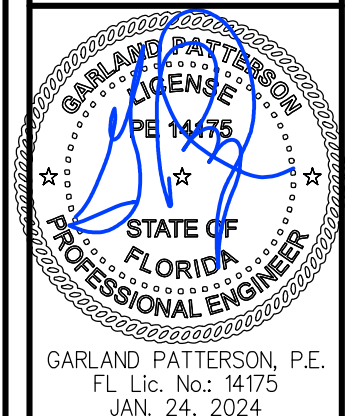


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1 HOOD SECTIONS
 SCALE: NONE

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 JAN. 24, 2024

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New Free Standing
Caluro's
 N. Wickham Road
 Melbourne, FL
 Brevard County

Date: 12.20.24
 Scale: AS NOTED
 Project Mgr: SEH
 Drawn: BMD
 Job: 24-049
 Sheet

M5

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

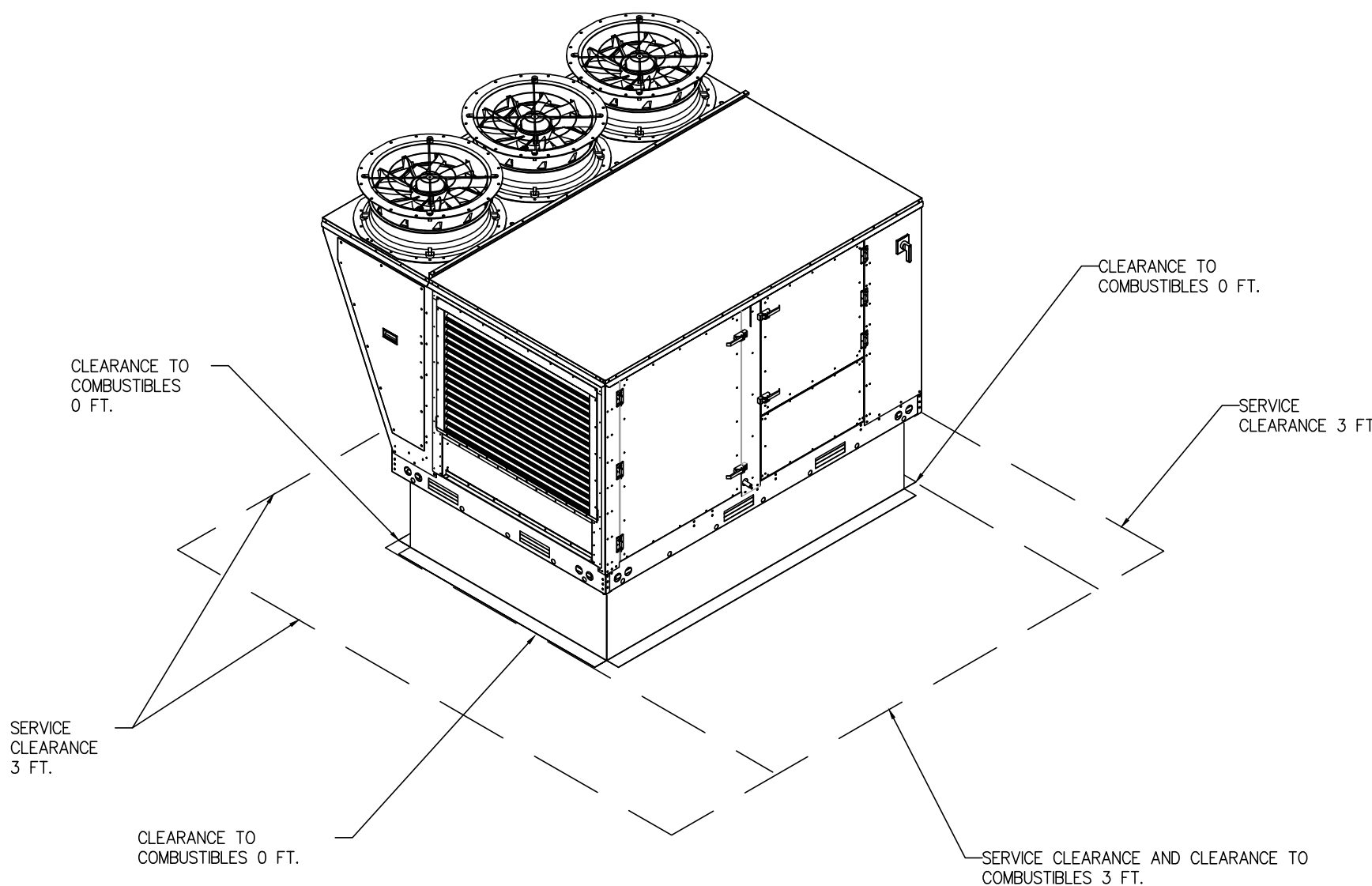
FAN UNIT NO	TAG	QTY	DESCRIPTION		
1	RTU-1	1	RTU TOTAL CFM MONITORING		
		1	INTAKE FIRESTAT SET TO 135 F		
		1	FREEZESTAT		
		1	DISCHARGE FIRESTAT SET TO 240 F		
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)		
		1	2" MERV 8 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



REVISIONS	BY

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AIA 0009291
Member of the American Institute of Architects
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
Garland Paterson, P.E.
FL Lic. No. 14175
DEC. 20, 2024

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4000 South US Highway 1
Safety Harbor, Florida 34686
Professional Engineering Services
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New Free Standing
Carroll's
N. Wickham Road
Melbourne, FL
Brevard County


Date:	12.20.24
Scale:	AS NOTED
Project Mgr:	SEH
Drawn:	BMD
Job:	24-049
Sheet	M6

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

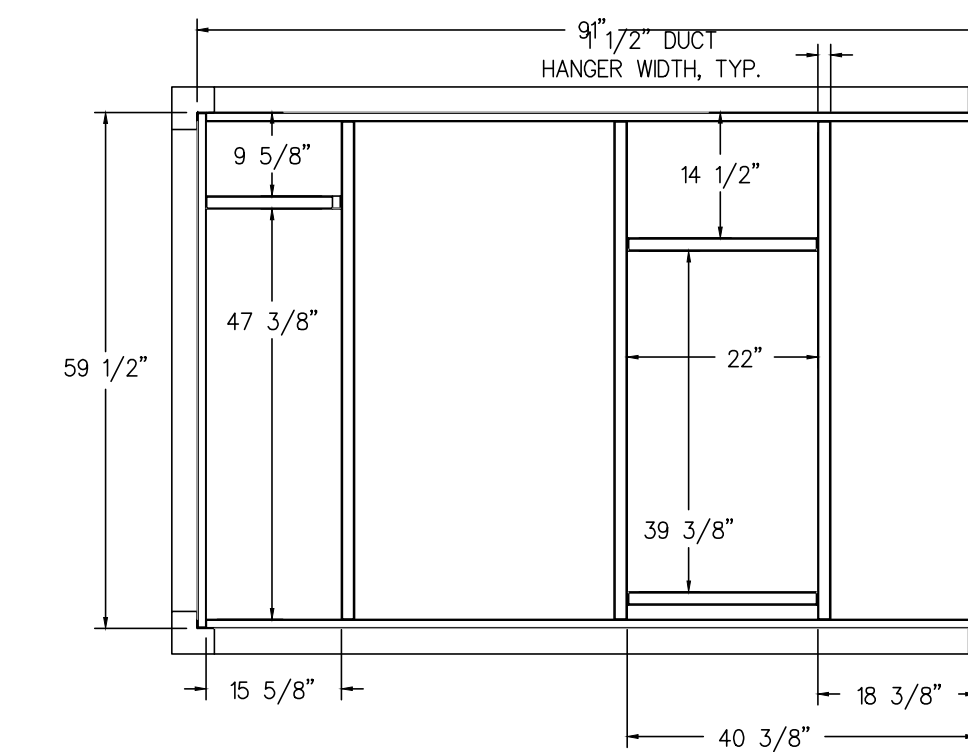
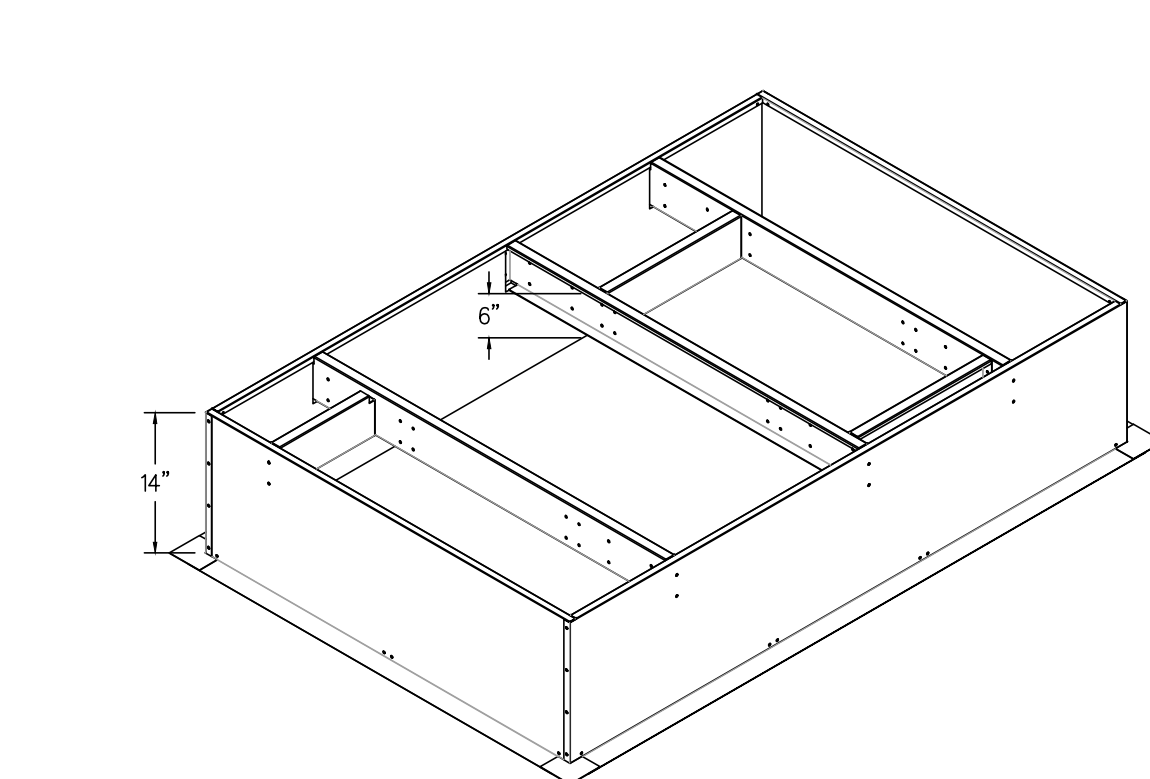
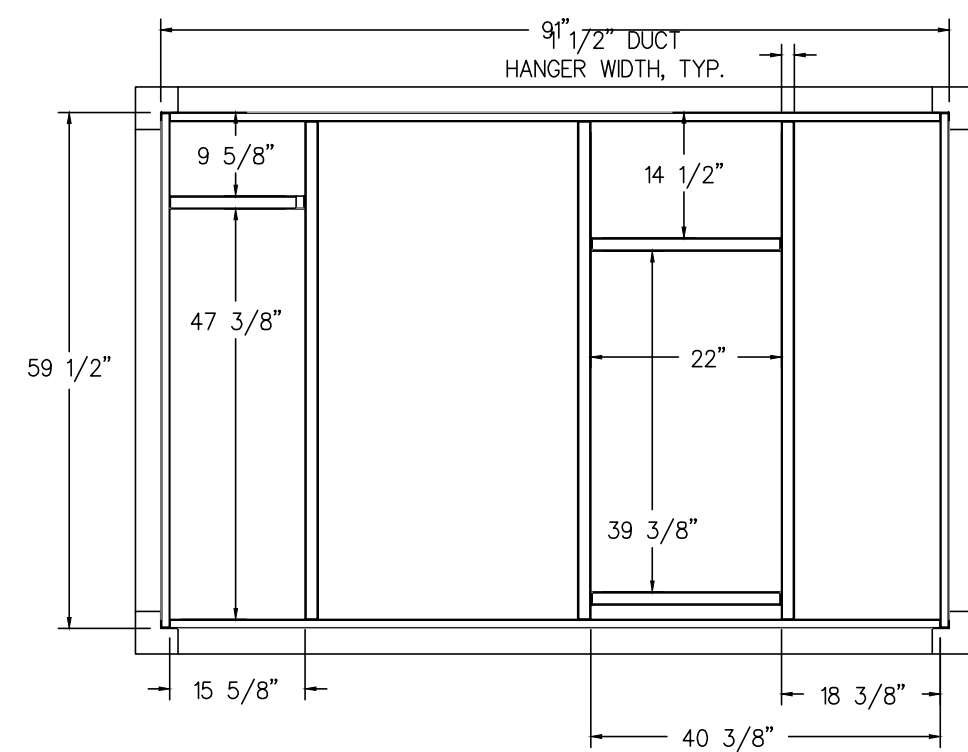
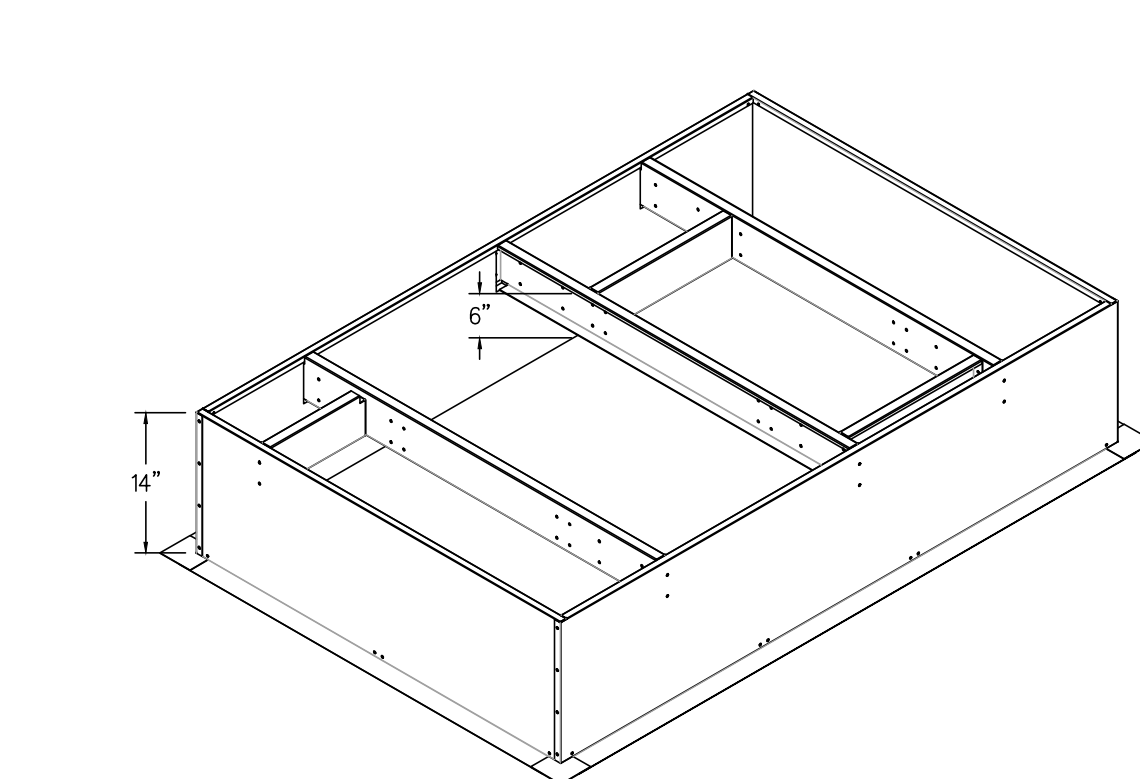
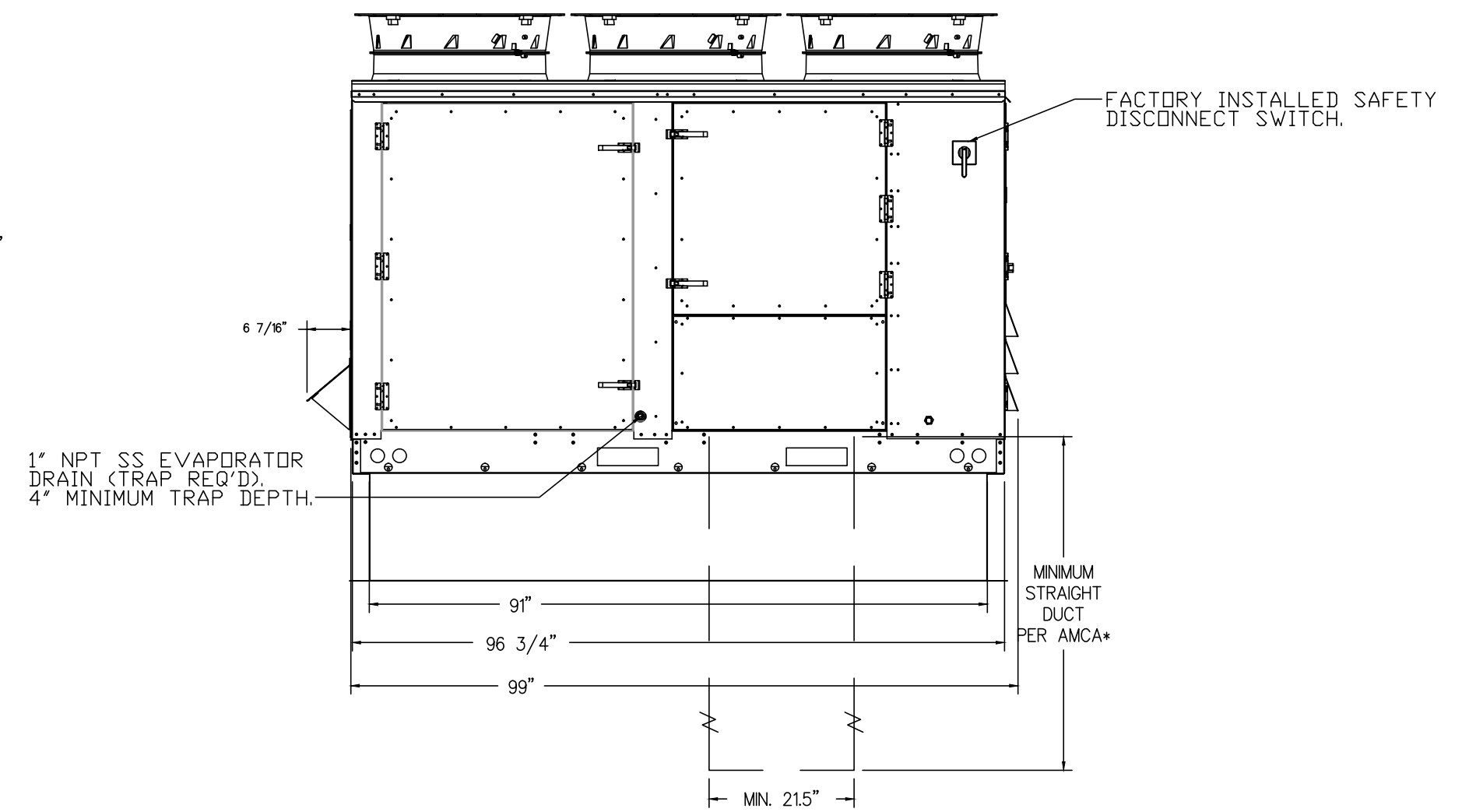
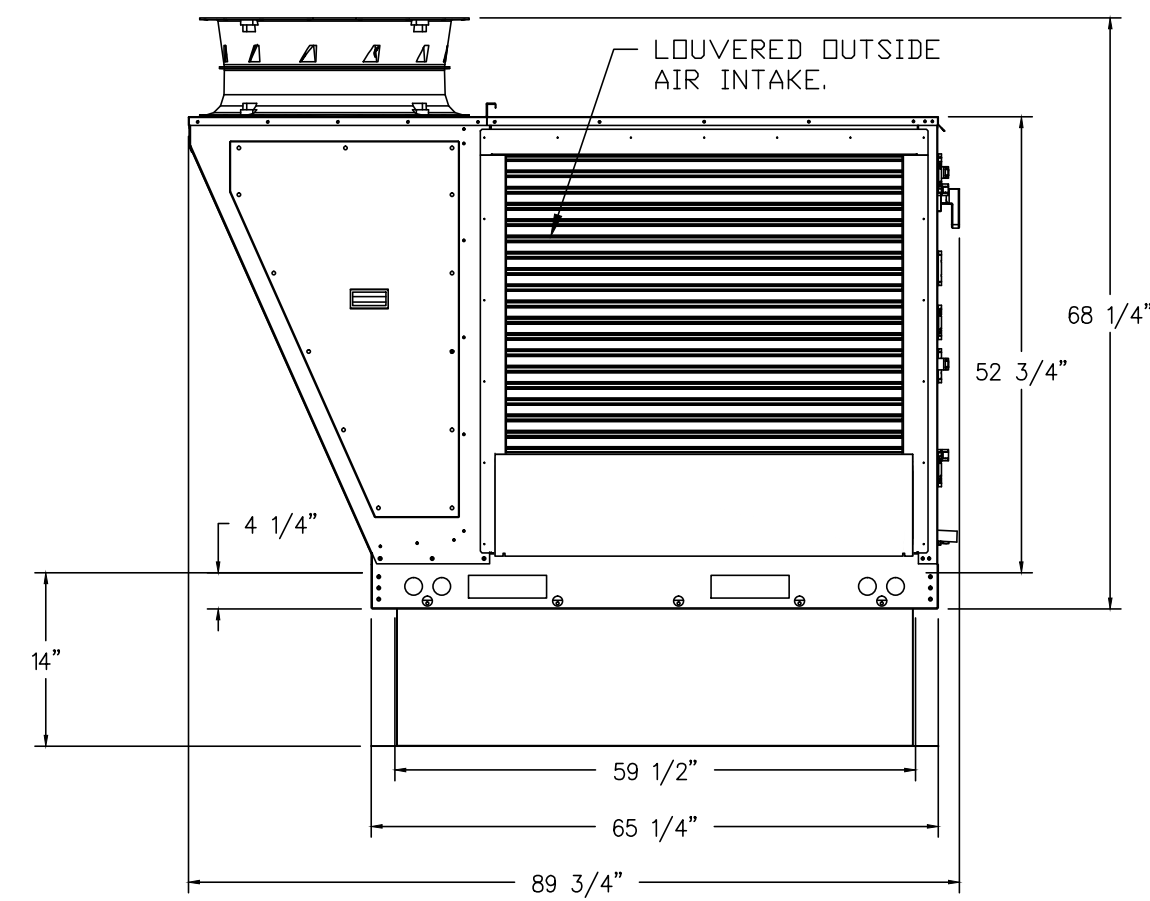
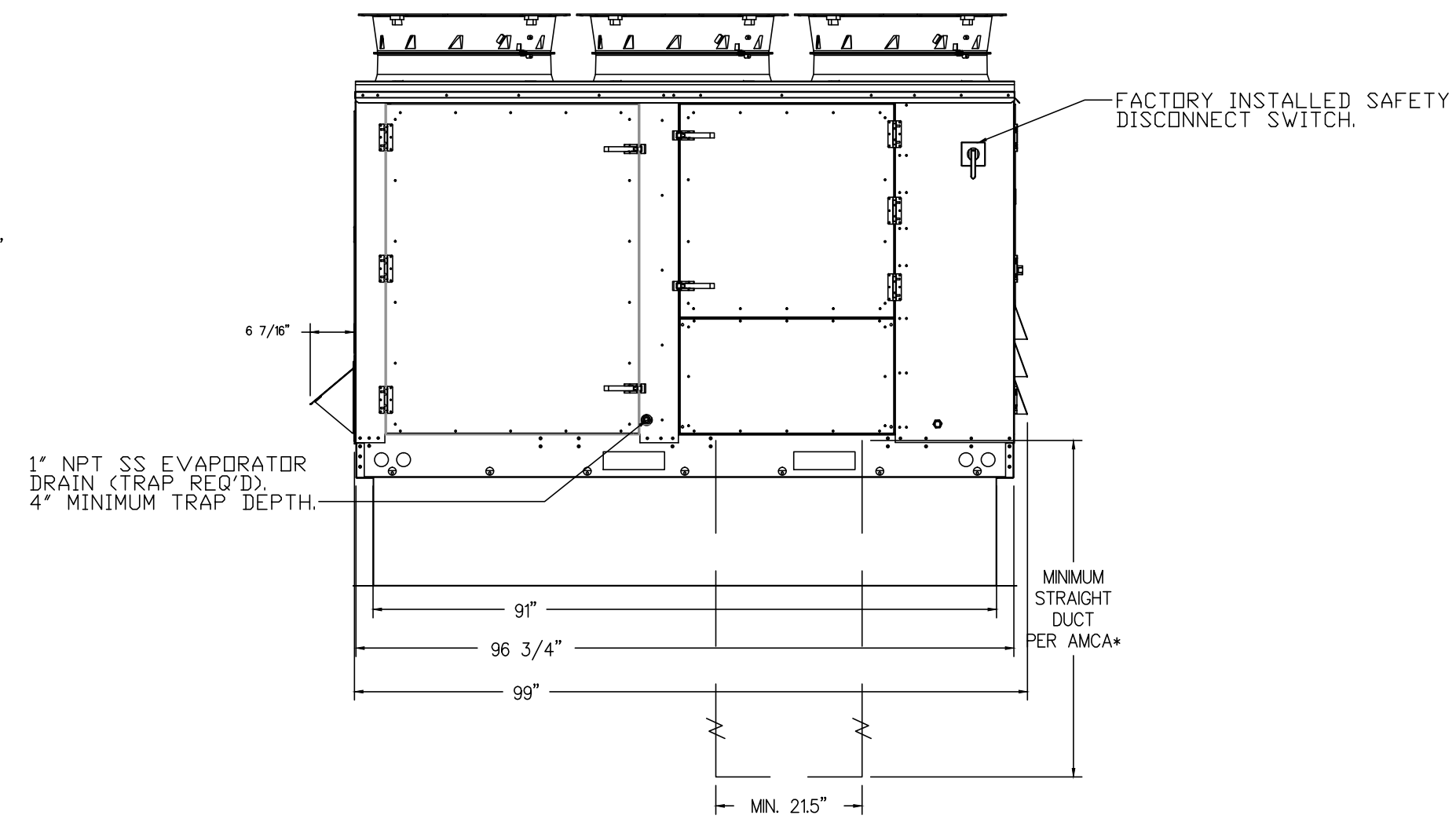
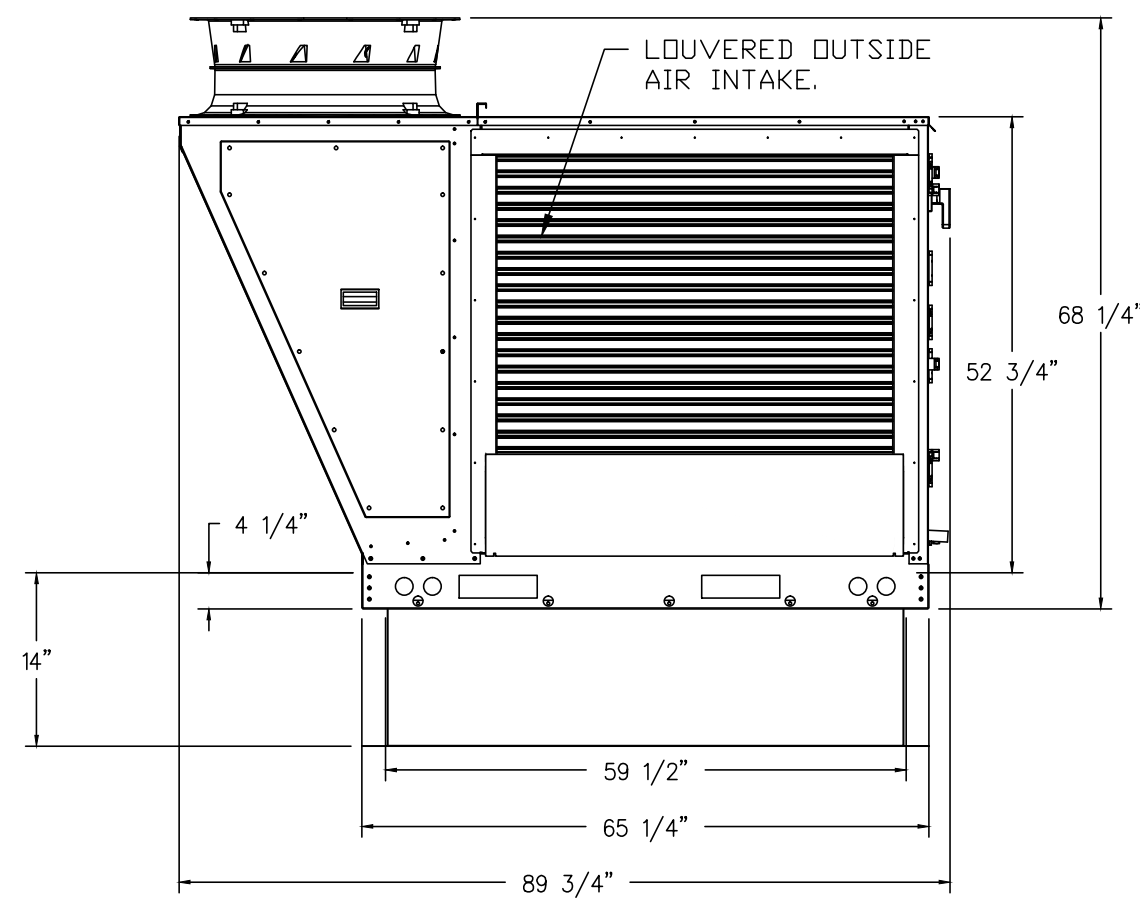
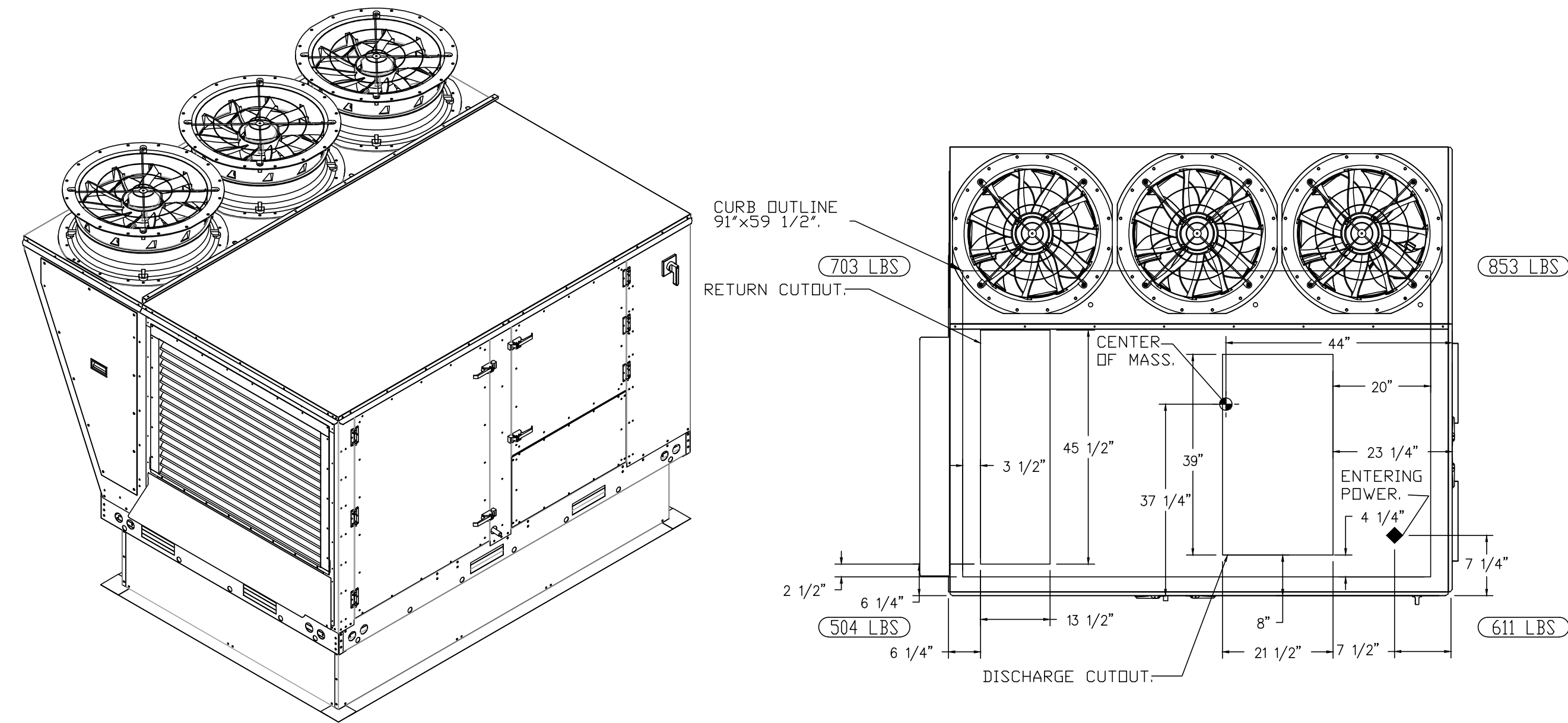
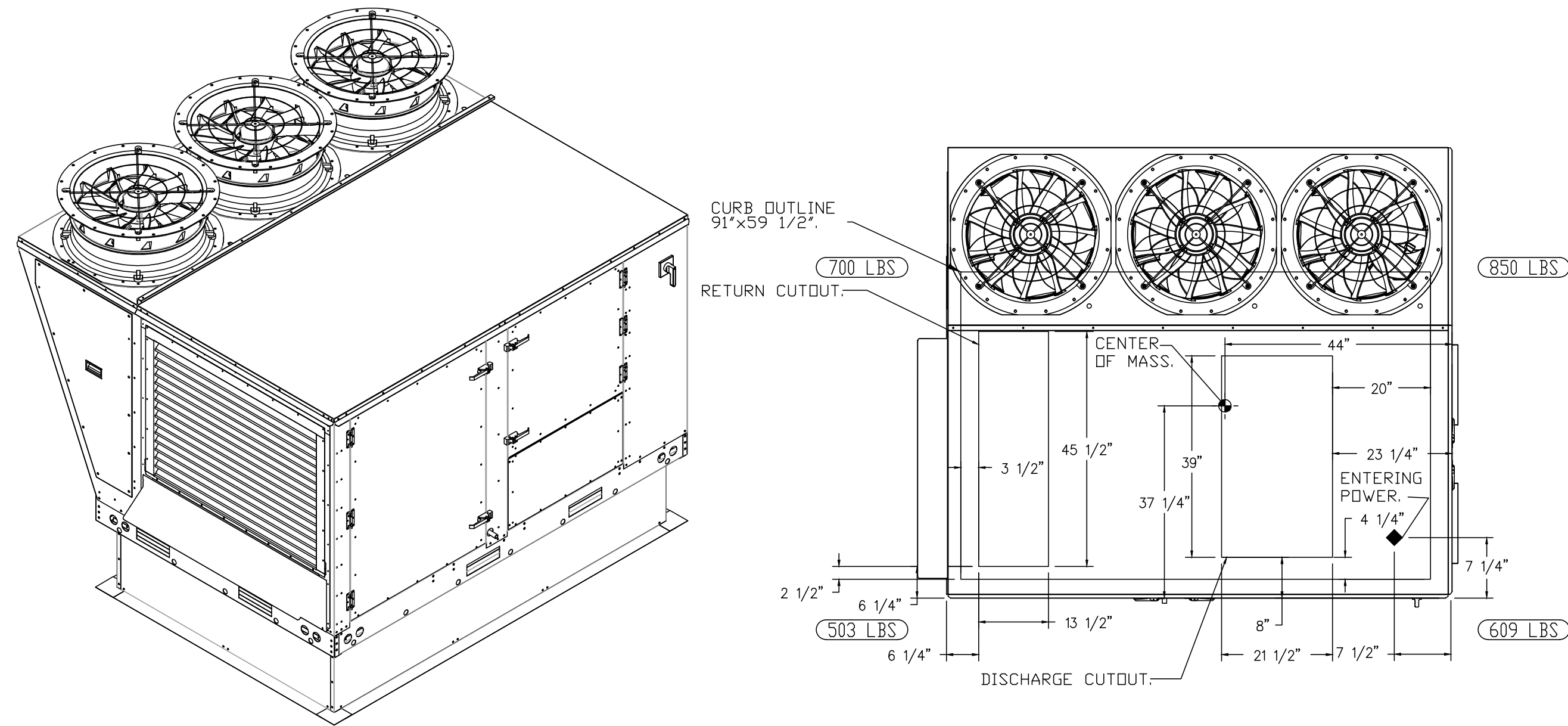
- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
 -  DENOTES CORNER WEIGHT.
 - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
 - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*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.

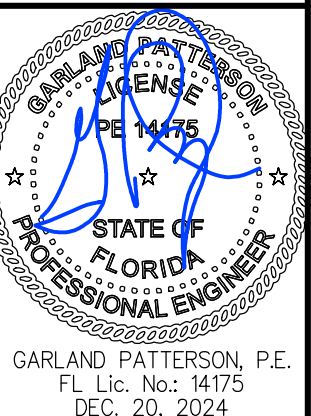
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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".



REVISIONS	BY

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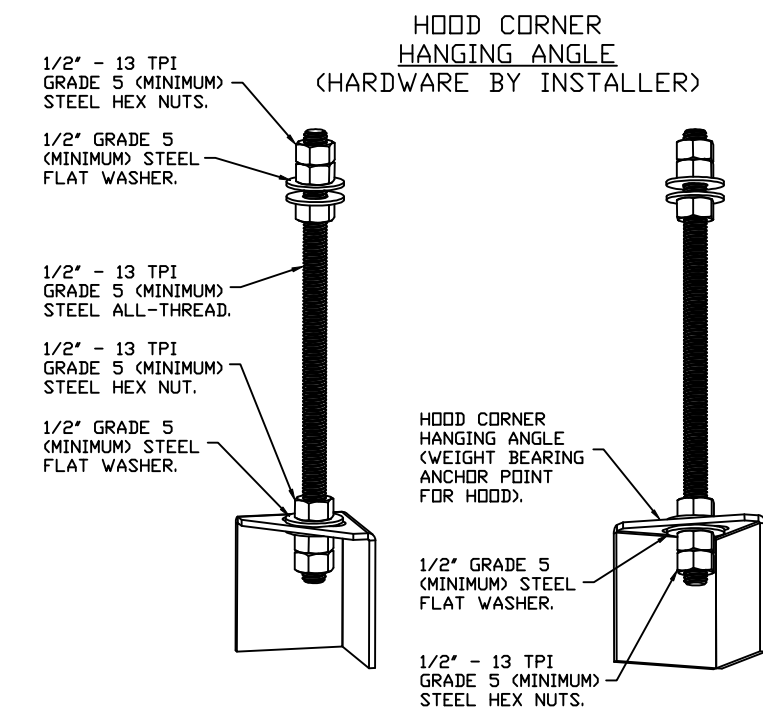
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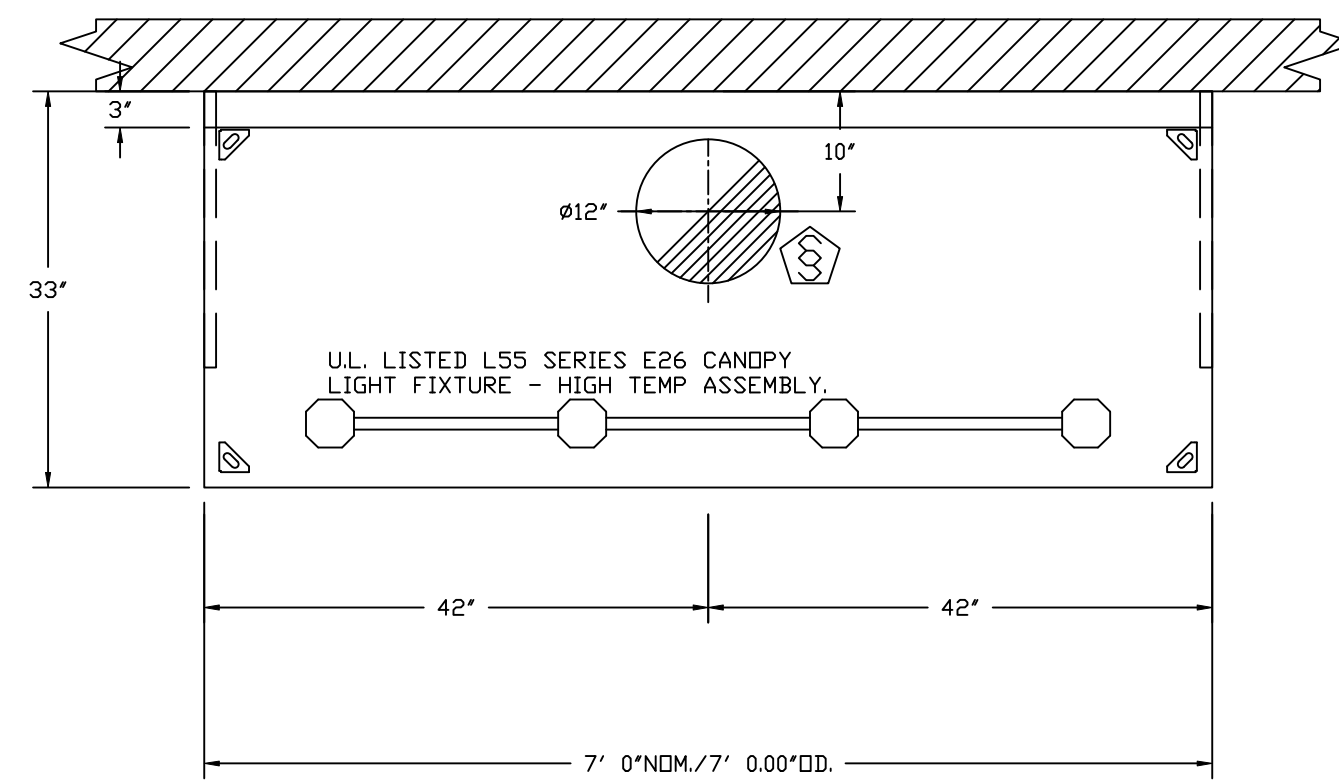
New Free Standing
Calver's
N. Wickham Road
Melbourne, FL
Brevard County

Date: 12.20.24
Scale: AS NOTED
Project Mgr: SEH
Drawn: BMD
Job: 24-049
Sheet

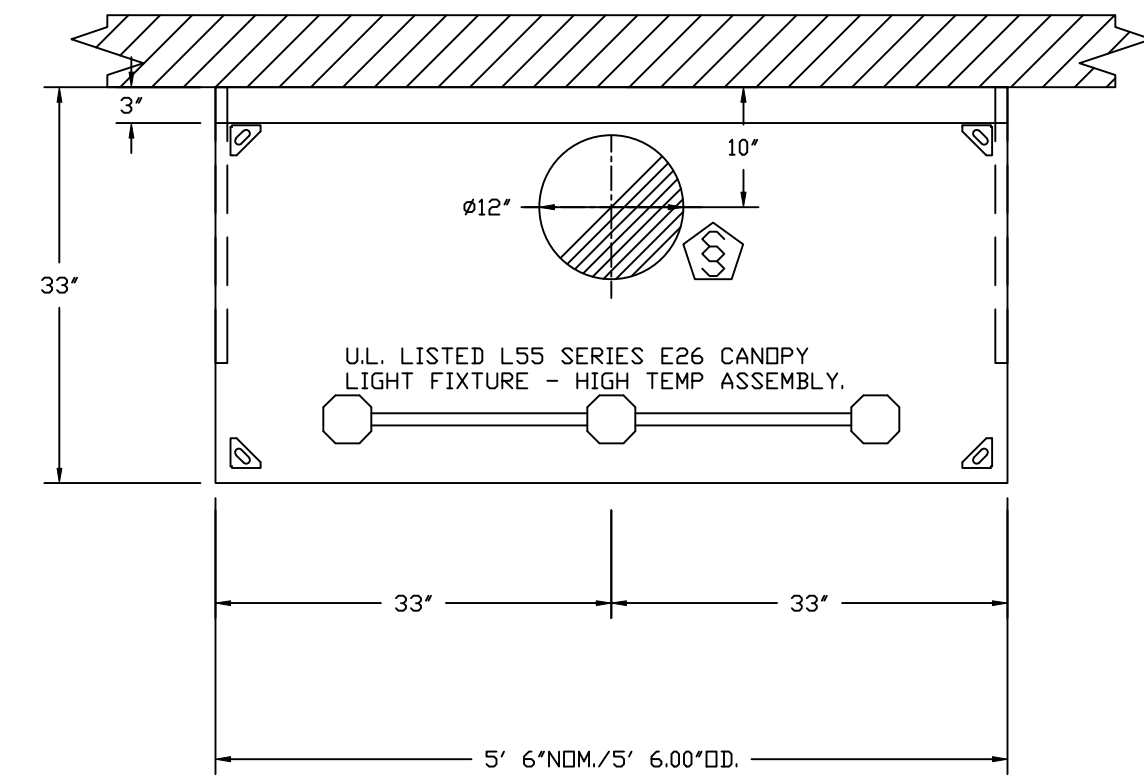


ASSEMBLY INSTRUCTIONS

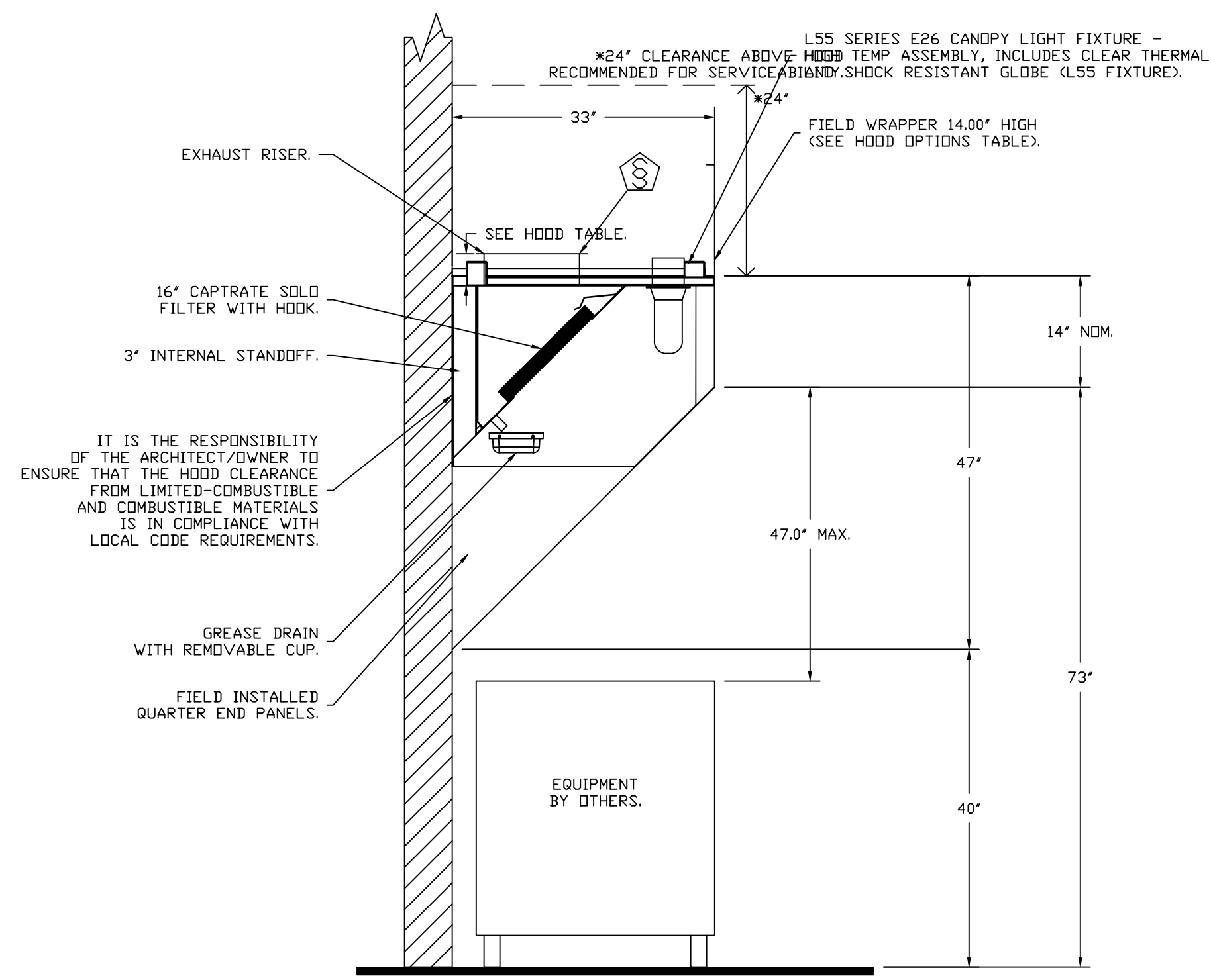
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND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



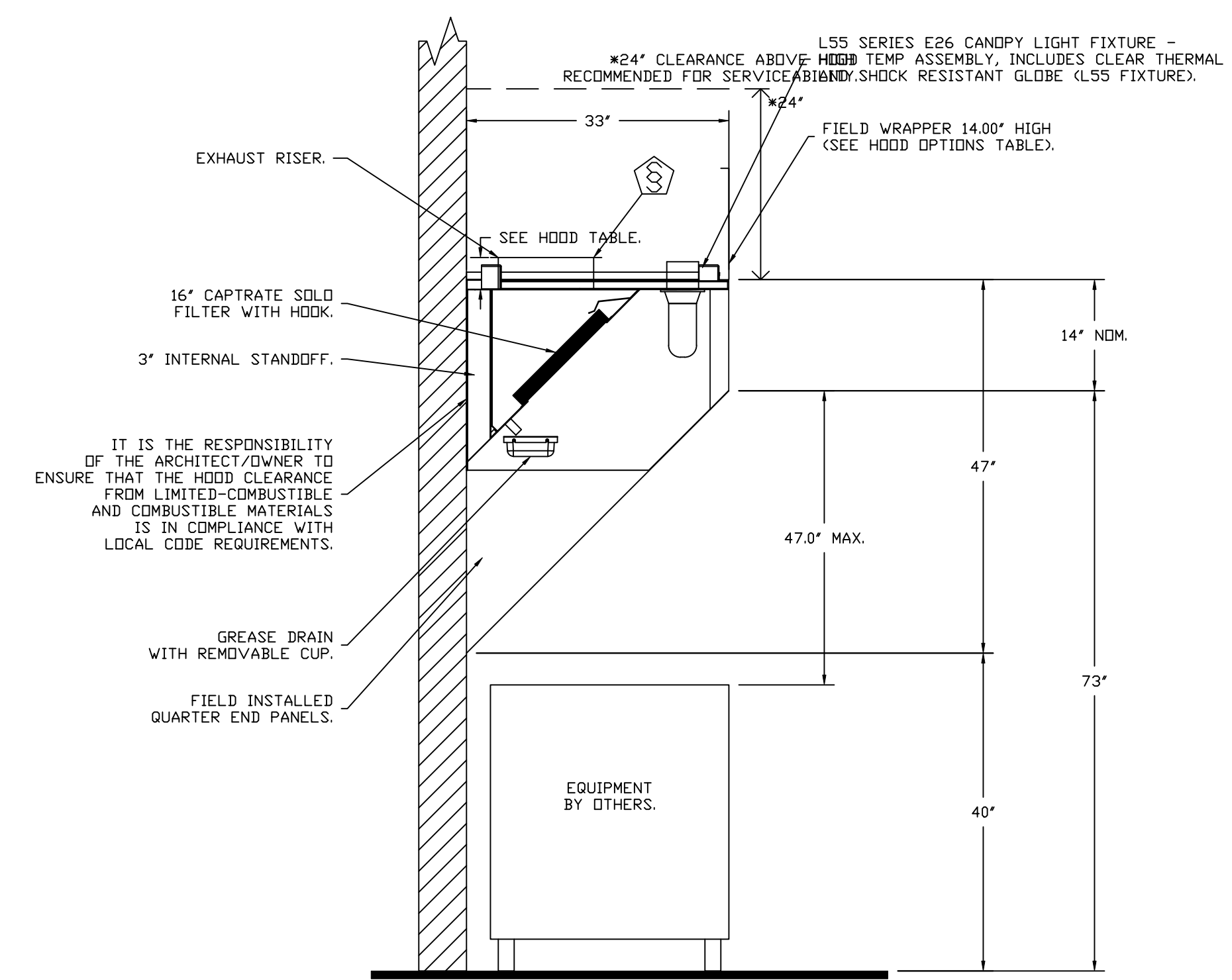
PLAN VIEW - HOOD #1 (FRYER HOOD)
7' 0.00" LONG 3347BD-2



PLAN VIEW - HOOD #2 (GRIDDLE HOOD)
5' 6.00" LONG 3347BD-2



SECTION VIEW - MODEL 3347BD-2
HOOD - #1 (FRYER HOOD)



SECTION VIEW - MODEL 3347BD-2
HOOD - #2 (GRIDDLE HOOD)

REVISIONS	
DESCRIPTION	DATE

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

CULVERS MELBOURNE FL
MELBOURNE, FL, 32935

DATE: 8/5/2025
DWG.#: 7372582
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
2

DOAS/RTU FAN SCHEDULE -- JOB#7372582

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	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLTS	MCA	MDCP	OUTSIDE AIR DB	MIXED AIR DB	LEAVING AIR DB	WDB	DP	DISCHARGE DB	WDB	DESIRED MAX	CAPACITY	IEER	ISMRE2	DISCHARGE DB		WDB	MOISTURE REMOVAL RATE	DSGN KW'S	MAX KW'S	VOLTS	AMPS	TEMP RISE	ROOM AREA (FT ²)	AIRFLOW (CFM)	HEIGHT (FT)		
1	RTU-1 DINING	1	CAS-HVAC3-E.452-24-20T	CAPTIVEAIRE	24MF-3-RTU	3200	2000	5200	2654	0.750	7.50	3	208	136.6A	150A	87.5°F	80.2°F	79.8°F	69.8°F	53.7°F	53.7°F	53.7°F	256.1 MBH	145.5 MBH	182	7.9	70.0°F	60.1°F	95.3 MBH	129.6 MBH	102.7 LBS/HR	33	45	208	108.3	20 °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
2	RTU-2 KITCHEN	1	CAS-HVAC3-E.302-24-20T	CAPTIVEAIRE	24MF-3-RTU	3000	2000	5000	2668	0.750	5.00	3	208	93.9A	100A	87.5°F	80.2°F	80.0°F	70.2°F	53.5°F	53.5°F	53.5°F	256.1 MBH	142.4 MBH	182	7.9	70.0°F	60.1°F	92.8 MBH	129.6 MBH	105.3 LBS/HR	22	30	208	72.2	14 °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

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. DOWN DISCHARGE/DOWN RETURN
 17. SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER
 18. 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.
 19. SCRR RATING OF 10kAMP

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	DN FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	RTU-1 DINING	4.3	202 LBS	CURB	59.500"W X 91.000"L X 18.000"H 0.250I2.000 PITCH ALONG WIDTH, RIGHT INSULATED 16 GAUGE.
2	# 2	RTU-2 KITCHEN	4.3	202 LBS	CURB	59.500"W X 91.000"L X 18.000"H 0.250I2.000 PITCH ALONG WIDTH, RIGHT INSULATED 16 GAUGE.
3	# 3	PRV-2		78 LBS	CURB	23.000"W X 23.000"L X 28.000"H VENTED HINGED 16 GAUGE.
4	# 4	PRV-3		78 LBS	CURB	23.000"W X 23.000"L X 28.000"H VENTED HINGED 16 GAUGE.
5	# 5	PRV-4		16 LBS	CURB	17.500"W X 17.500"L X 12.000"H.
6				18 LBS	CURB	19.500"W X 19.500"L X 12.000"H.

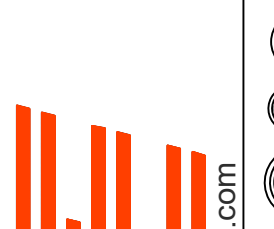
1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC/ASTM, & ASHRAE STANDARDS.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	RTU-1 DINING	1	COOLING OVERRIDE	2	RTU-2 KITCHEN	1	COOLING OVERRIDE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED			1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	CONSTRUCTION MODE - MODIFIES START-UP SETTINGS TO ALLOW TEMPERING A BUILDING STILL UNDER CONSTRUCTION			1	RTU BLOWER DOOR SWITCH
		1	RTU BLOWER DOOR SWITCH			1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)			1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)			1	OVERHEAT STAT
		1	OVERHEAT STAT			1	TOTAL CFM MONITORING
		1	TOTAL CFM MONITORING			1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE			1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW
		1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW			1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS			1	LDW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
		1	LDW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT			1	R454B LEAK DETECTOR OPTION FOR RTU3
		1	R454B LEAK DETECTOR OPTION FOR RTU3			1	OCCLUDED SCHEDULING
		1	OCCLUDED SCHEDULING			1	INTAKE FIRESTAT SET TO 135°F
		1	INTAKE FIRESTAT SET TO 135°F			1	FREEZESTAT
		1	FREEZESTAT			1	DISCHARGE FIRESTAT SET TO 240°F
		1	DISCHARGE FIRESTAT SET TO 240°F			1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B			1	RTU3 CURB DUCT HANGER
		1	RTU3 CURB DUCT HANGER			1	24VAC FIRE INPUT
		1	24VAC FIRE INPUT			1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED			1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		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, #M, OR #E2 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.			1	LDW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
		1	RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX			1	R454B LEAK DETECTOR OPTION FOR RTU3
		1	RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX			1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI			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, #M, OR #E2 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI			1	RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU3 HAIL GUARD			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 HAIL GUARD			1	RTU3 DOWN RETURN
		1	RTU3 DOWN RETURN			1	RTU3 MIAMI DADE CERTIFICATION
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)			1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE
		1	RTU3 MIAMI DADE CERTIFICATION			1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (S71 VFD INCLUDED)
1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT				
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT	1	GREASE BOX				
3	PRV-2	1	GREASE BOX	4	PRV-3	1	FAN BASE CERAMIC SEAL - DU/DR85HFA - SHIP LOOSE - FOR GREASE DUCTS
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - SHIP LOOSE - FOR GREASE DUCTS			1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST			1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION			1	2 YEAR PARTS WARRANTY
		1	2 YEAR PARTS WARRANTY			1	GREASE BOX
		1	GREASE BOX			1	FAN BASE CERAMIC SEAL - DU/DR85HFA - SHIP LOOSE - FOR GREASE DUCTS
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - SHIP LOOSE - FOR GREASE DUCTS			1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST			1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCW ROTATION			1	2 YEAR PARTS WARRANTY
		1	2 YEAR PARTS WARRANTY			1	ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION
5	PRV-4	1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST	6	EF-1	3	MGI - METAL GRILLE KIT
		1	2 YEAR PARTS WARRANTY			3	2 YEAR PARTS WARRANTY
7	EF-2	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN	7	EF-2	1	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN
		1	2 YEAR PARTS WARRANTY			1	2 YEAR PARTS WARRANTY

REVISIONS

DESCRIPTION	DATE:



CAPTIVE AIR
 Florida National Accounts
 239 N Hunt Club Blvd., STE 201, Longwood, FL, 32779 PHONE: (407) 982-3100 FAX: 9192275913 EMAIL: reg60@captiveaire.com
 www.captiveaire.com

CULVERS MELBOURNE FL
 MELBOURNE, FL, 32935

DATE: 8/5/2025

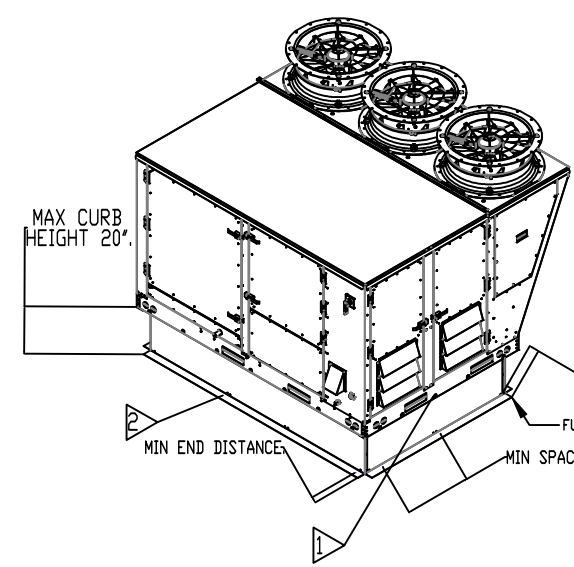
DWG.#:
7372582

DRAWN BY: studdy jr

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

MASTER DRAWING

SHEET NO.
3



MIAMI-DADE NDA6 RTU

GENERAL NOTES

1. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS300 (A)-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, TA2801, TA2802, TA2803.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER A11-15071.

INSTALLATION INSTRUCTIONS

1. SECURE FAN BASE TO CURB USING 5/16"-18 X 2" ZINC PLATED STEEL SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER) THROUGH PRE-FUNCTIONED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR FASTENER QTY).
2. SECURE CURB TO ROOF BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

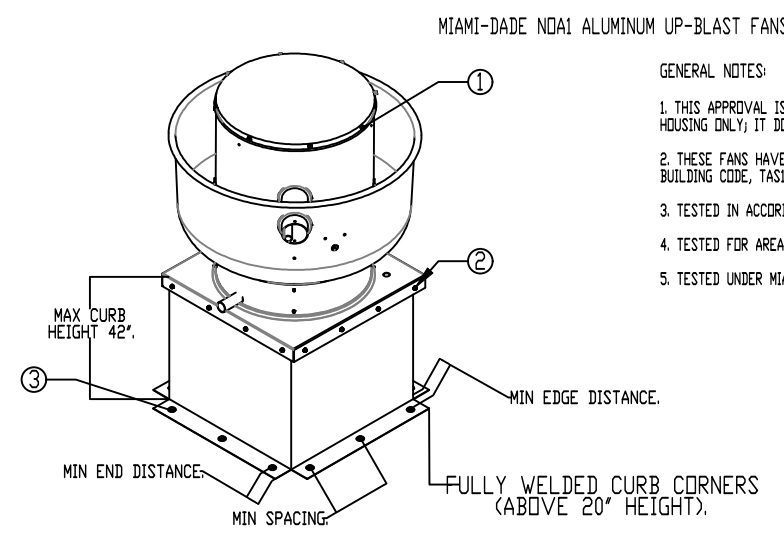
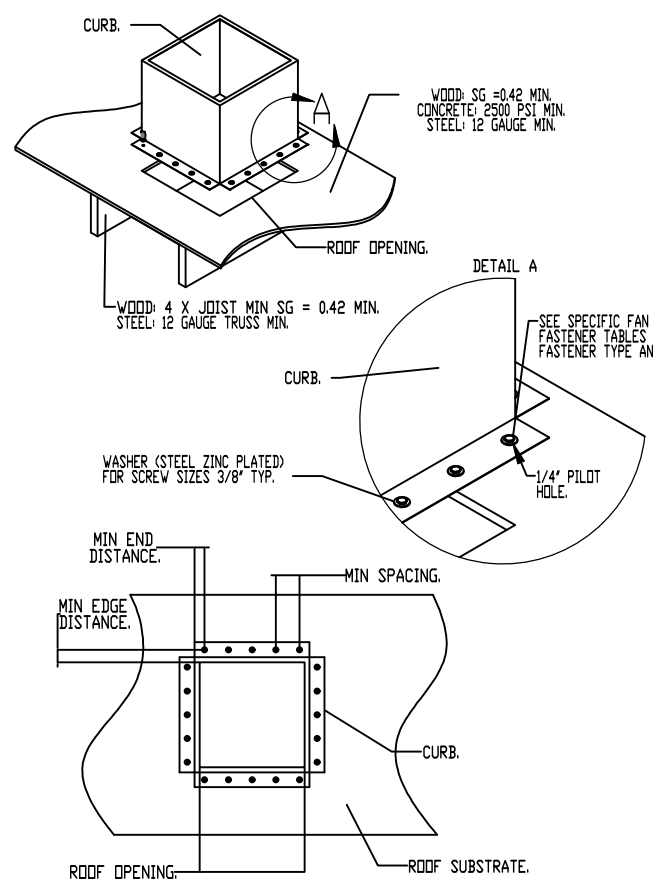
CURB MATERIAL:
20" HIGH & LESS = 18 GA. STEEL.

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)		
FASTENER	5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER)			3/8" DIA. ZINC PLATED LAG BOLT			1/4"-14 DRILL-FLEX SELF DRILLING SCREW			3/8" DIA. SS HILTI KWIK BOLT T2 EXPANSION ANCHOR		
MINIMUM THREAD PENETRATION	N/A			2-1/2"			12 GAUGE			2"		
MINIMUM EDGE DISTANCE	N/A			1-1/2"			3/8"			3"		
MINIMUM END DISTANCE	N/A			4-1/2"			4-1/2"			4-1/2"		
MINIMUM SPACING	N/A			1-1/2"			6"			6"		

INSTALLATION FASTENER QTY												
FAN MODEL	CURB TO FAN			WOOD			STEEL			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

MIAMI-DADE COUNTY - CURB ROOF INSTALLATION GUIDE



MIAMI-DADE NDA1 ALUMINUM IP-BLAST FANS

GENERAL NOTES

1. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS300 (A)-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, TA2801, TA2802, TA2803.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER A11-89333.

INSTALLATION INSTRUCTIONS

1. SECURE LID TO FAN USING 5/16"-18 X 2" ZINC PLATED STEEL SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER) THROUGH PRE-FUNCTIONED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
2. SECURE FAN BASE TO CURB USING 3/8" DIA. ZINC PLATED LAG BOLTS THROUGH PRE-FUNCTIONED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
3. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

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)		
FASTENER	5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER)			3/8" DIA. ZINC PLATED LAG BOLT			1/4"-14 DRILL-FLEX SELF DRILLING SCREW			3/8" DIA. SS HILTI KWIK BOLT T2 EXPANSION ANCHOR		
MINIMUM THREAD PENETRATION	N/A			2-1/2"			12 GAUGE			2"		
MINIMUM EDGE DISTANCE	N/A			1-1/2"			3/8"			3"		
MINIMUM END DISTANCE	N/A			2-5/8"			3/8"			3"		
MINIMUM SPACING	N/A			1-1/2"			3/4"			5-1/2"		

INSTALLATION FASTENER QTY																								
FAN MODEL	CURB TO FAN (ROOF)			CURB TO FAN (WALL)			WOOD (ROOF)			WOOD (WALL)			STEEL (ROOF)			STEEL (WALL)			CONCRETE (ROOF)			CONCRETE (WALL)		
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL		
DUB5	3	12	3	12	4	16	4	16	5	20	5	20	4	16	4	16	4	16	4	16	4	16		
DUB2	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12		

MIAMI-DADE NDA3 GRAVITY VENTS

GENERAL NOTES

1. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS300 (A)-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, TA2801, TA2802, TA2803.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER A11-15086, 15088, 15089, 15092, 15093.

INSTALLATION INSTRUCTIONS

1. SECURE FAN BASE TO CURB USING 5/16"-18 X 2" ZINC PLATED STEEL SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER) THROUGH PRE-FUNCTIONED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
2. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

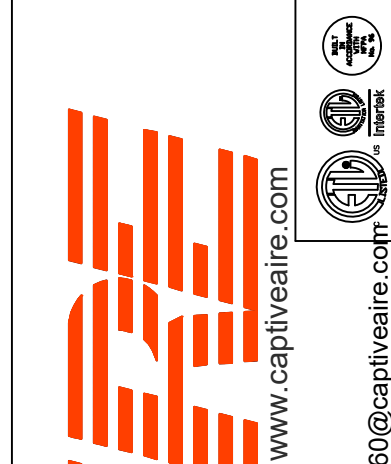
CURB MATERIAL:
20" HIGH & LESS = 20 GA. STEEL.
ABOVE 20" THRU 42" = 16 GA. STEEL.

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)		
FASTENER	5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER)			3/8" DIA. ZINC PLATED LAG BOLT			1/4"-14 DRILL-FLEX SELF DRILLING SCREW			3/8" DIA. SS HILTI KWIK BOLT T2 EXPANSION ANCHOR		
MINIMUM THREAD PENETRATION	N/A			2-1/2"			12 GAUGE			2"		
MINIMUM EDGE DISTANCE	N/A			1-1/2"			3/4"			3"		
MINIMUM END DISTANCE	N/A			2-5/8"			3/4"			3"		
MINIMUM SPACING	N/A			1-1/2"			3/4"			5"		

INSTALLATION FASTENER QTY																								
FAN MODEL	CURB TO FAN (ROOF)			CURB TO FAN (WALL)			WOOD (ROOF)			WOOD (WALL)			STEEL (ROOF)			STEEL (WALL)			CONCRETE (ROOF)			CONCRETE (WALL)		
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL		
GV4	3	12	3	12	3	12	3	12	4	16	9	36	9	36	9	36	9	36	9	36	9	36		

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DESCRIPTION	DATE:



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CULVERS MELBOURNE FL
MELBOURNE, FL, 32935

DATE: 8/5/2025

DWG.#:
7372582

DRAWN BY: studdy jr

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

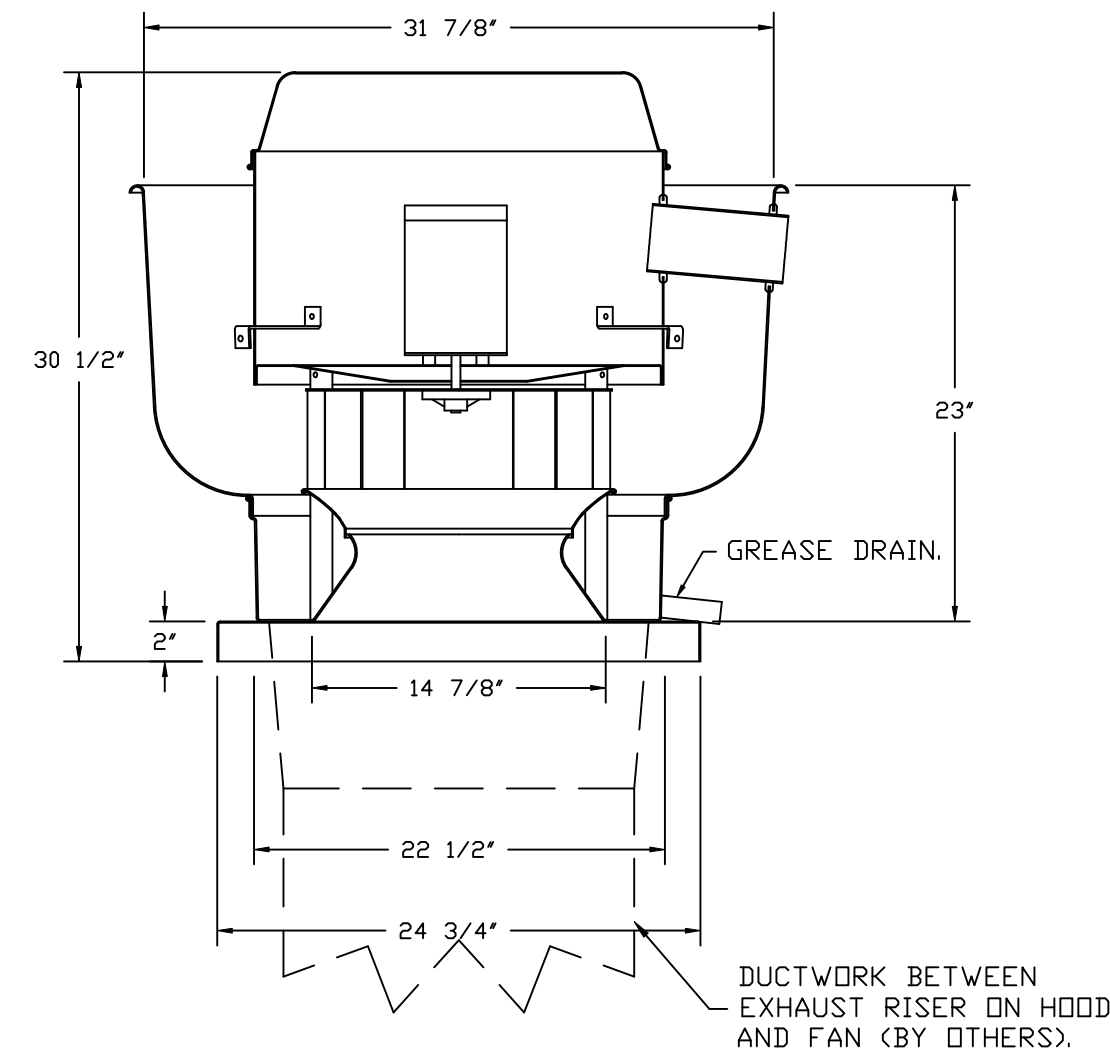
MASTER DRAWING

SHEET NO.
4

EXHAUST FAN INFORMATION - JOB#7372582

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
3	PRV-2	1	DU85HFA	CAPTIVEAIRE	1500	1.412	1406	TEAD-ECM	1.000	0.5330	1	115	11.6	475 FPM	94	12.3
4	PRV-3	1	DU85HFA	CAPTIVEAIRE	1500	1.250	1348	TEAD-ECM	1.000	0.4700	1	115	11.6	475 FPM	94	11.3
5	PRV-4	1	DU12HFA	CAPTIVEAIRE	350	0.600	1707	TEAD-ECM	0.250	0.1260	1	115	2.9	248 FPM	52	0.3
6	EF-1	3	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPOSE	0.116	0.0510	1	115	1.1		25	N/A
7	EF-2	1	CFA-S70-CA	CAPTIVEAIRE	50	0.125	610	GENERALPURPOSE	0.030	0.0140	1	115	0.2		9	1.4

FANS #3 (PRV-2), #4 (PRV-3) - DU85HFA EXHAUST FAN



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

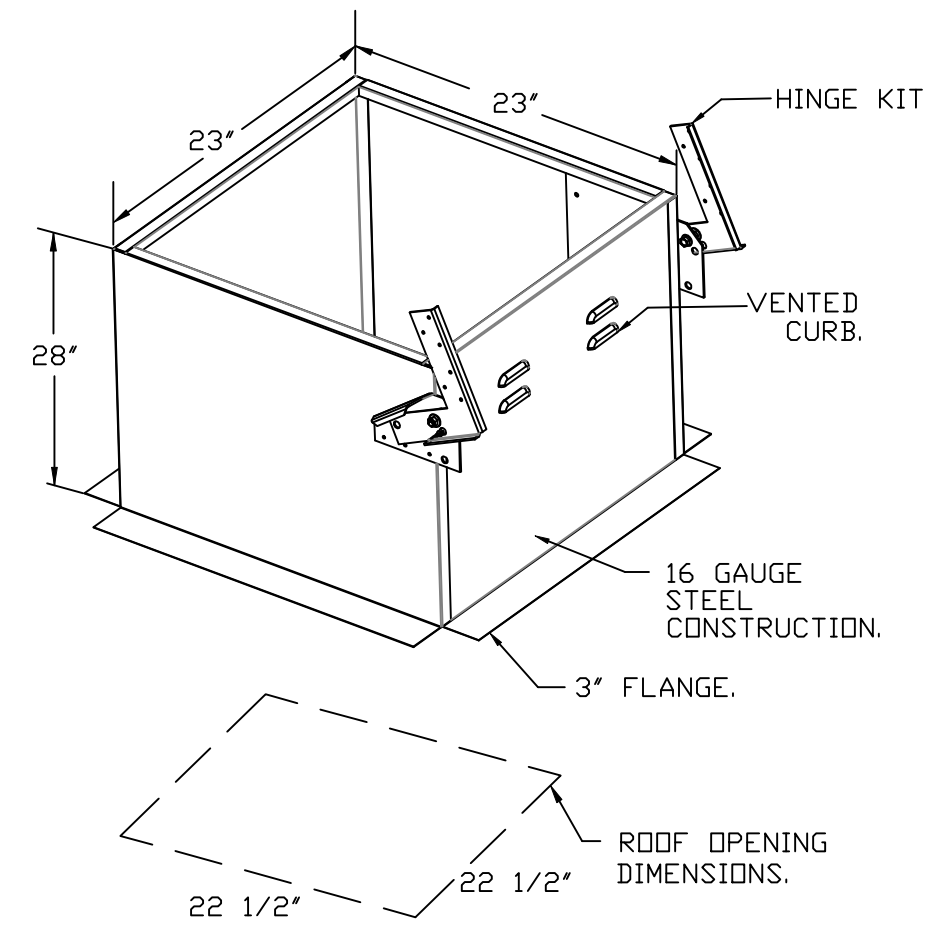
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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 LIDS - FOR GREASE DUCTS.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



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 MELBOURNE, FL, 32935

DATE: 8/5/2025

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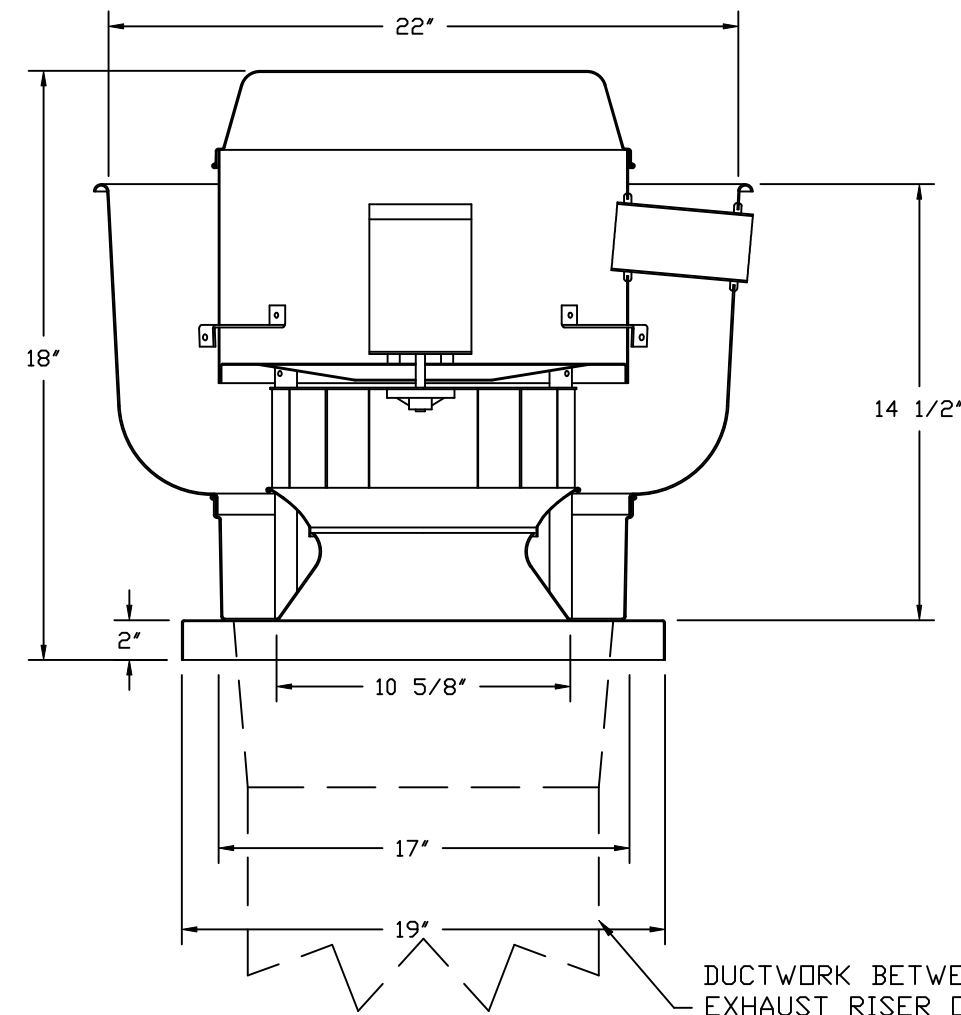
DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO.
5

FAN #5 DUI2HFA - EXHAUST FAN (PRV-4)



FEATURES:

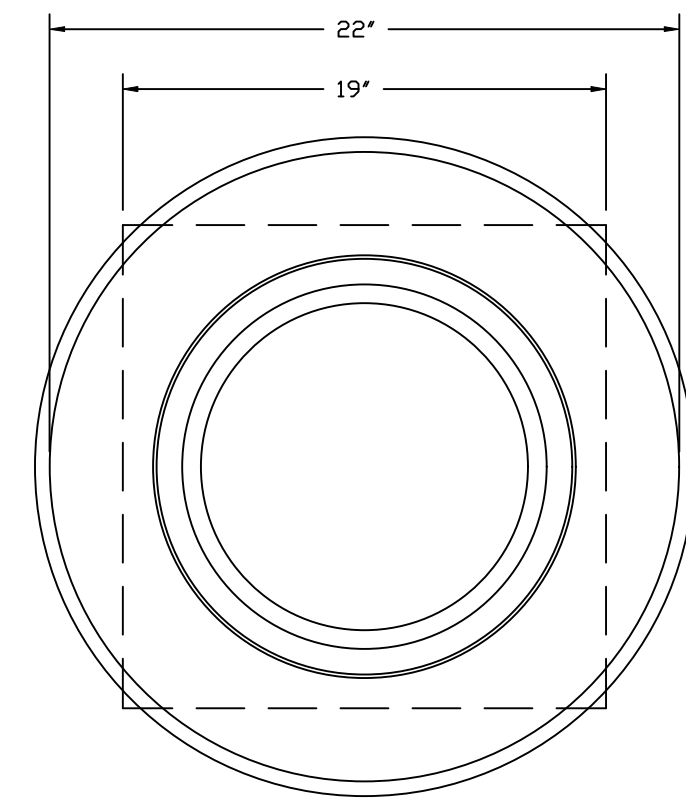
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- NEMA 3R SAFETY DISCONNECT SWITCH.

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.

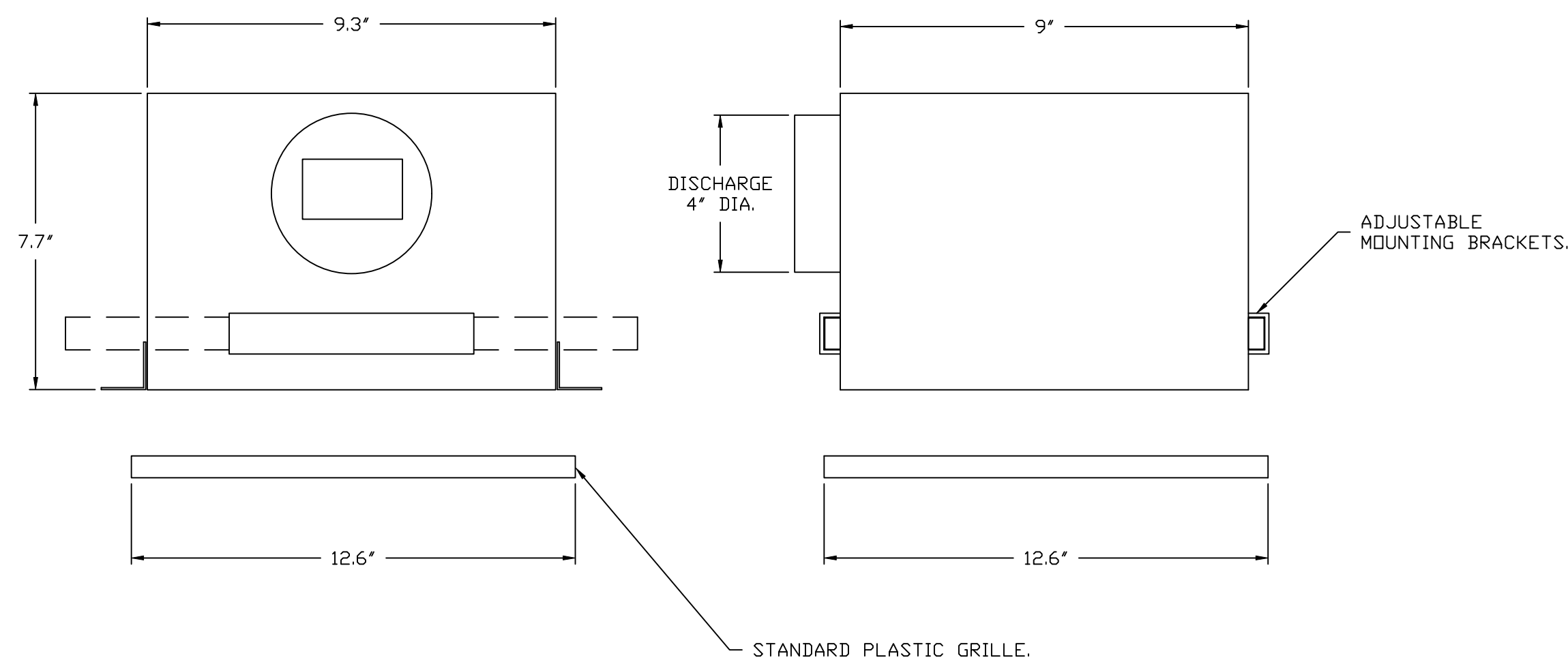
OPTIONS

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



TOP VIEW

FAN #7 CFA-S70-CA - EXHAUST FAN (EF-2)

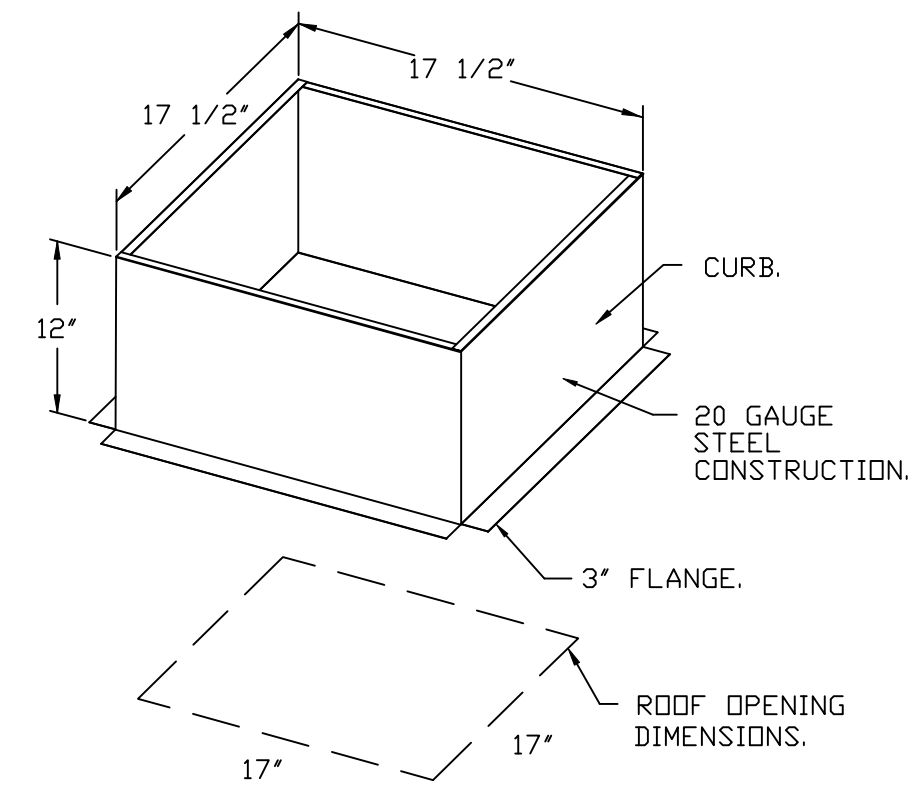


FEATURES:

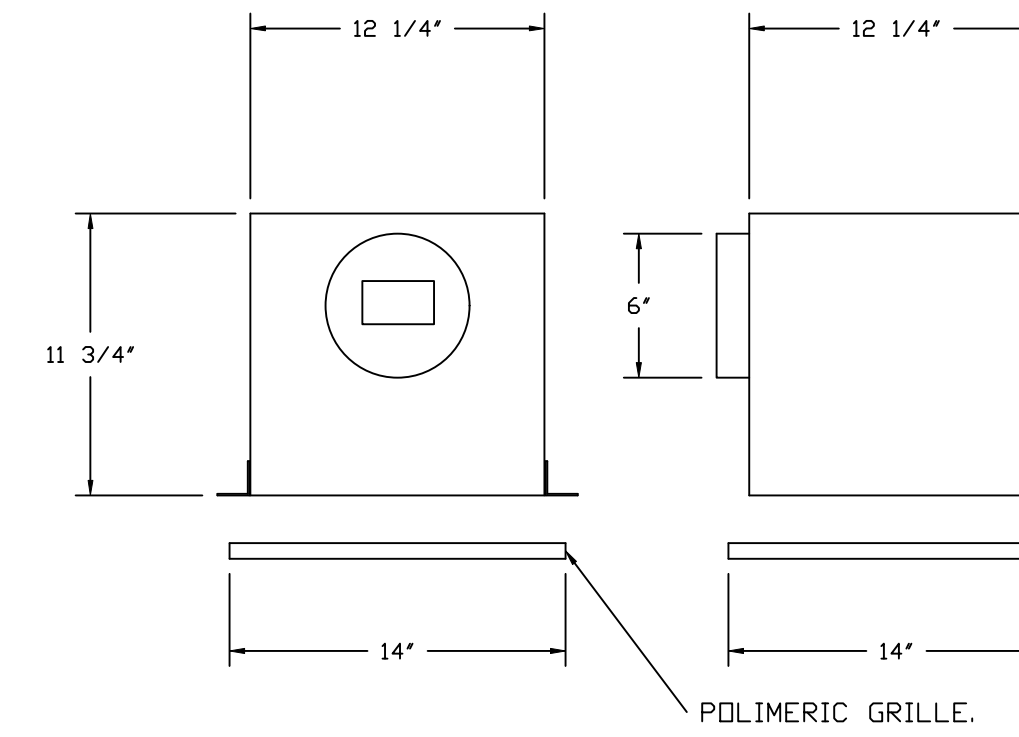
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILT IN AUTOMATIC BACKDRAFT DAMPER.
- UL LISTED.
- MOUNTING BRACKETS.

OPTIONS

- FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
- 2 YEAR PARTS WARRANTY.



FAN #6 CFA 100CA - 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

- MGI - METAL GRILLE KIT.
- 2 YEAR PARTS WARRANTY.

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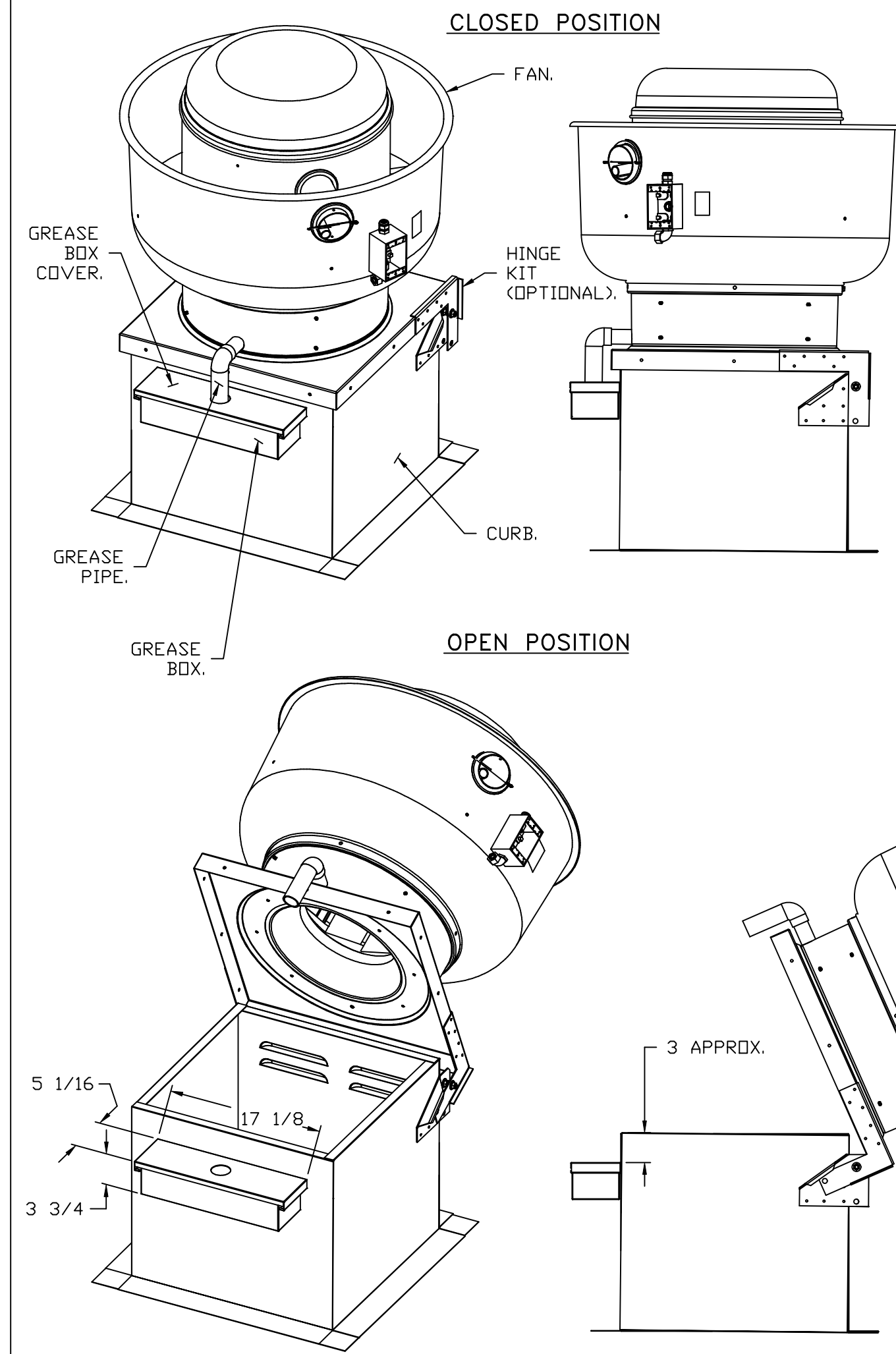
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CULVERS MELBOURNE FL
 MELBOURNE, FL, 32935

DATE: 8/5/2025
DWG.#: 7372582
DRAWN BY: studdy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 6

GREASE BOX INSTALLATION



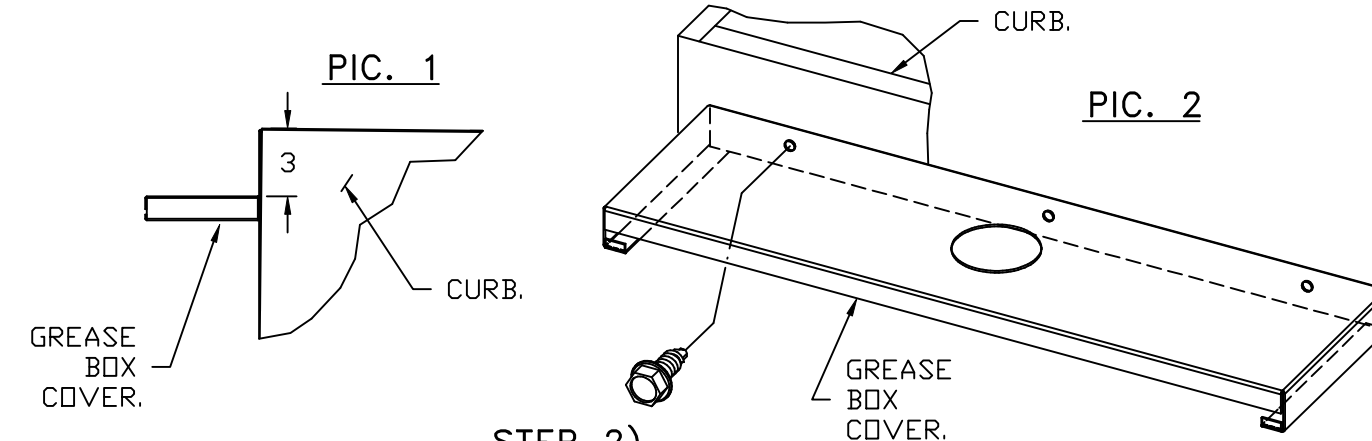
PARTS INCLUDED

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

GREASE BOX FIELD INSTALLATION

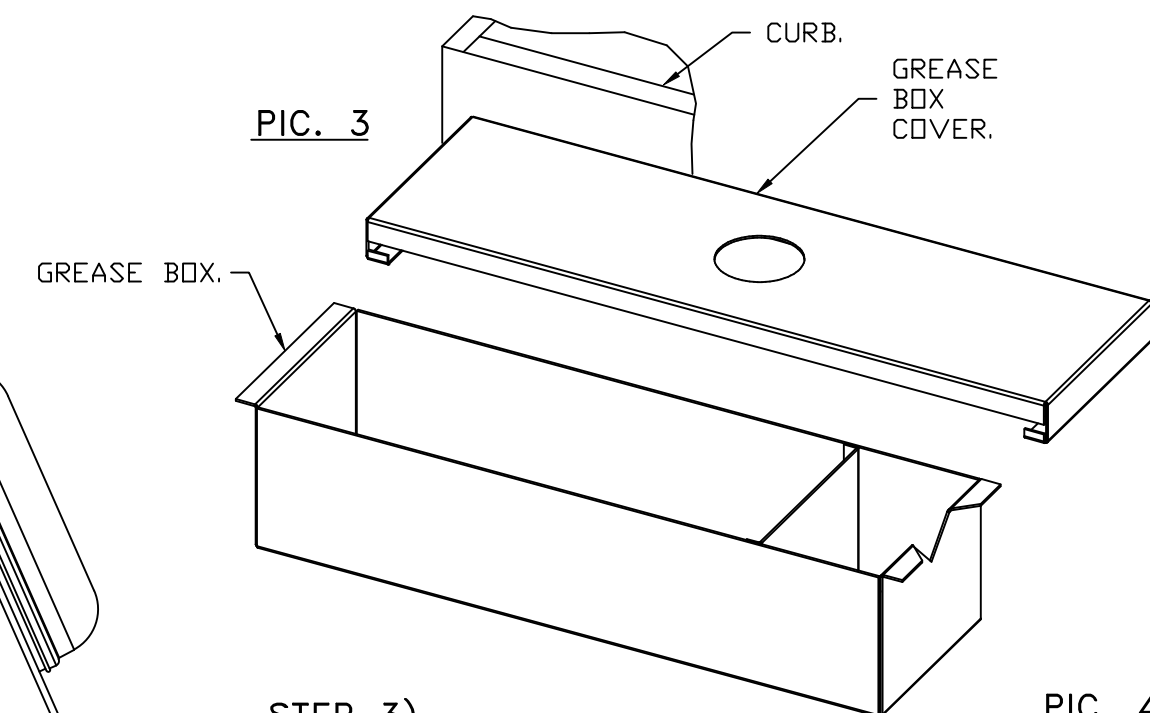
STEP 1)

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.



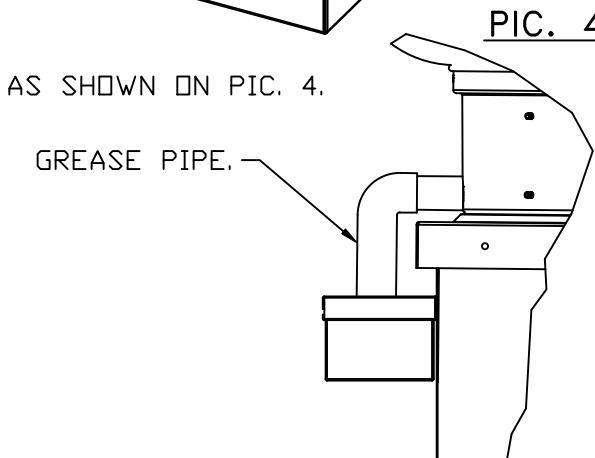
STEP 2)

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.

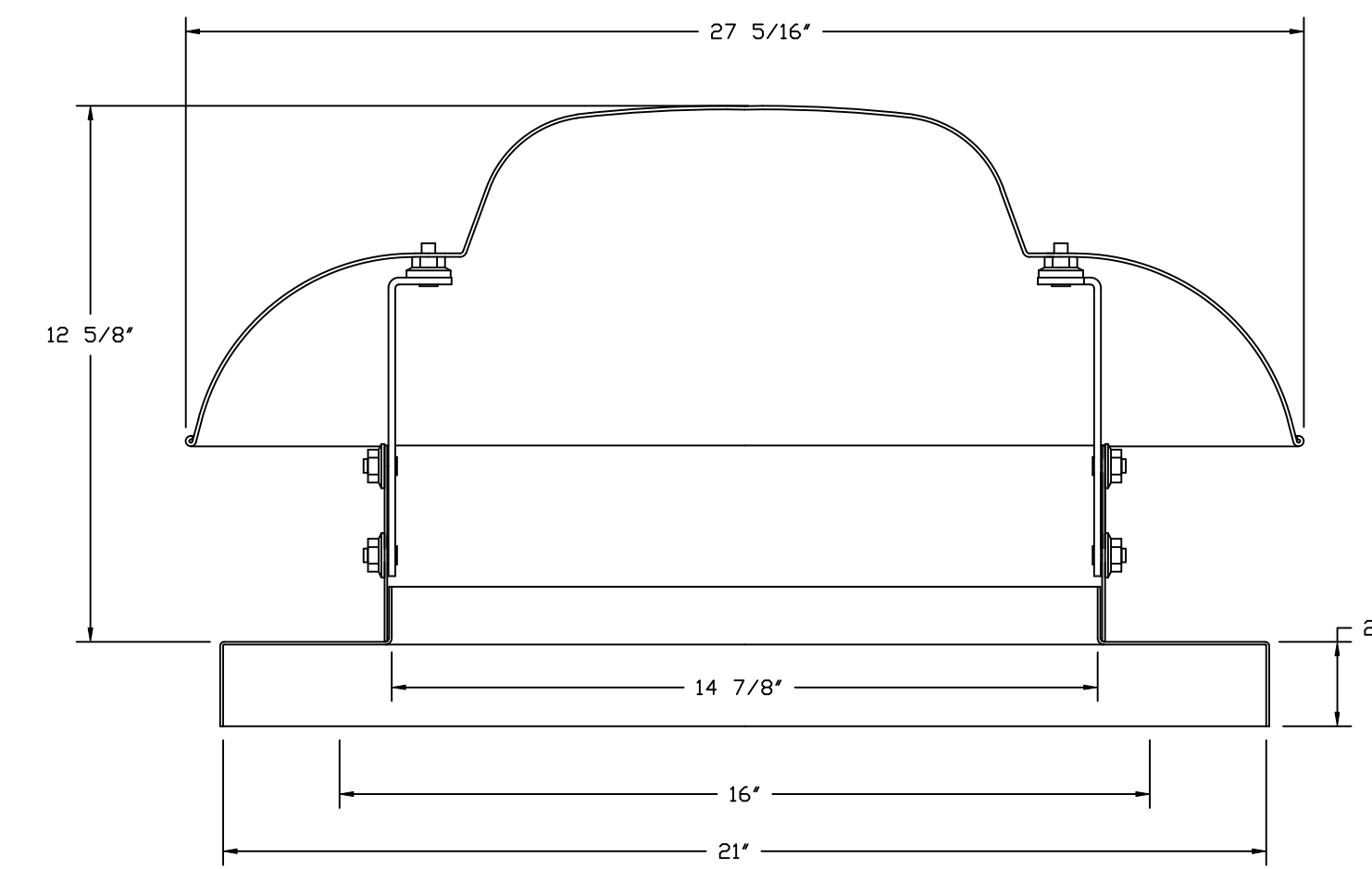


GREASE BOX
REV.#2 08/19/02

GRAVITY VENT(S) - Job#7372582

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

GRAVITY VENT #1 - GV14 (GRV-1) - EXHAUST



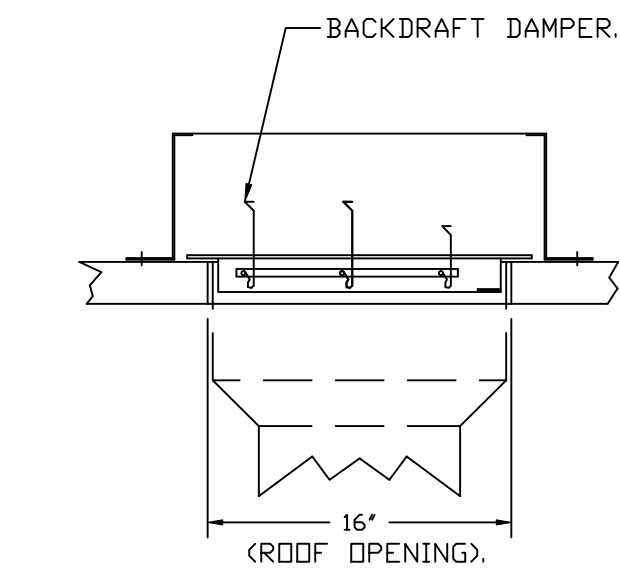
FEATURES:

- ROOF/WALL MOUNT GRAVITY VENT.
- STANDARD BIRD SCREEN.

OPTIONS

MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +150 / -150 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF & WALL MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 20 GAUGE ALUMINIZED. ROOF & WALL MOUNT EXHAUST CURBS ABOVE 20" HIGH UP TO 42" HIGH MUST BE 18 GAUGE ALUMINIZED. GRAVITY BACK DRAFT DAMPER - WITH FLANGE, DAMPER IS 15" SQ., 2" DEEP, O.D. OF FLANGE IS 17" SQ.

BACKDRAFT DAMPER INSTALLATION



*NOTE: UL 705 INSTALL.

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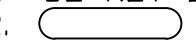
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DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
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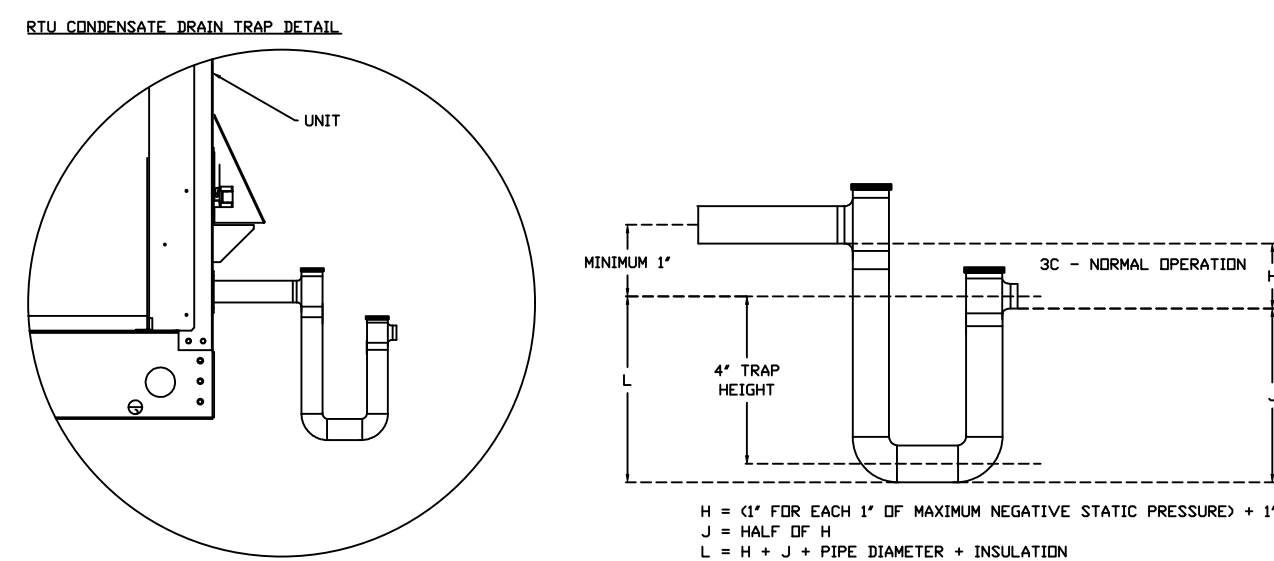
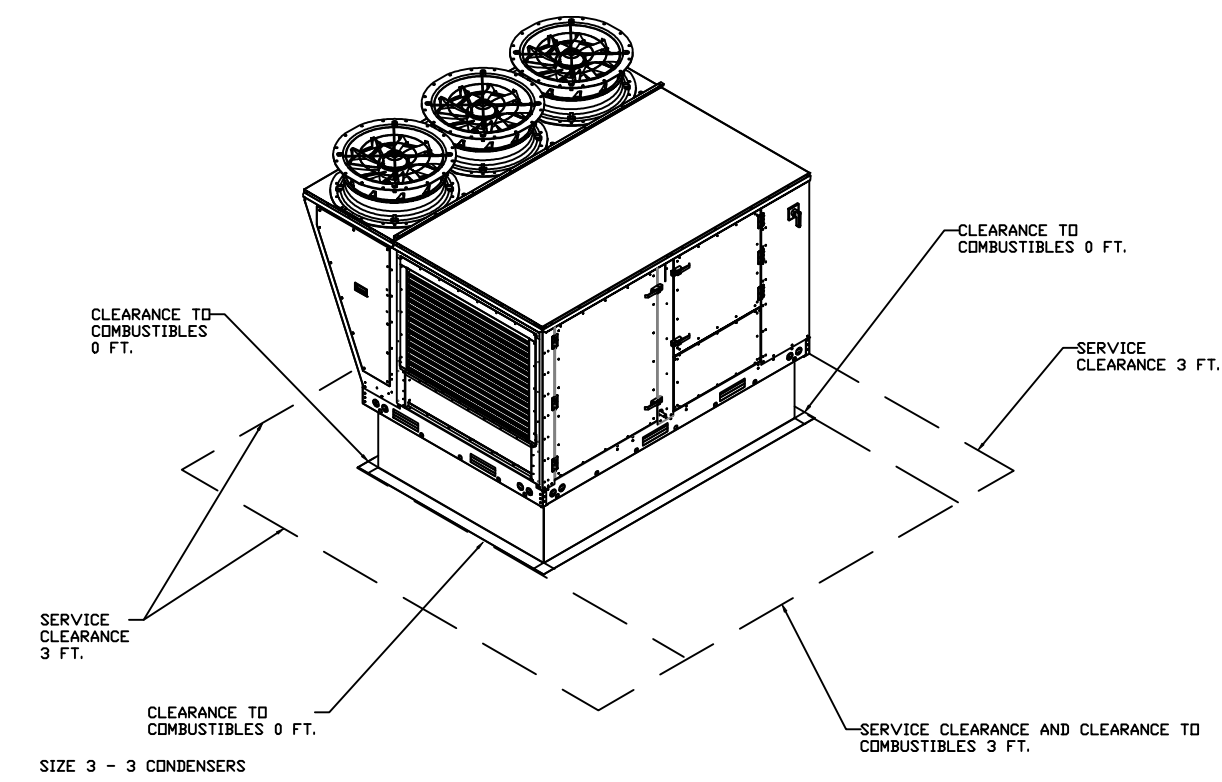
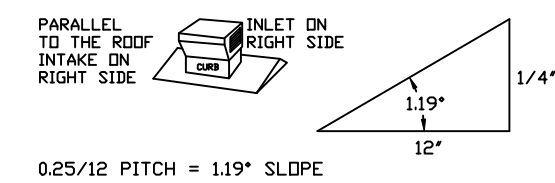
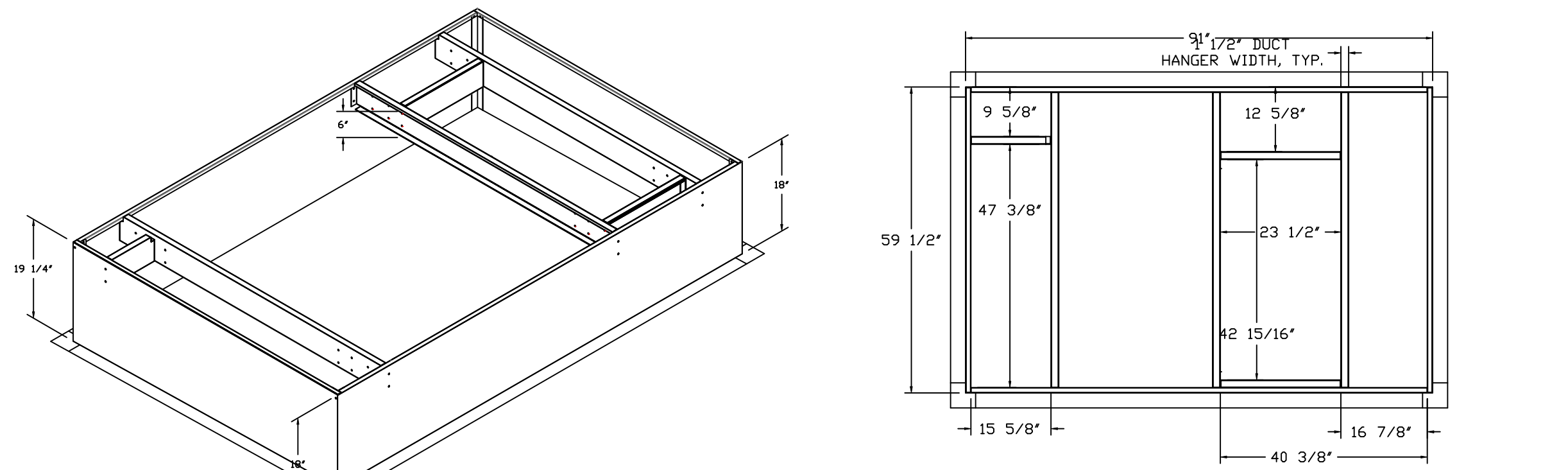
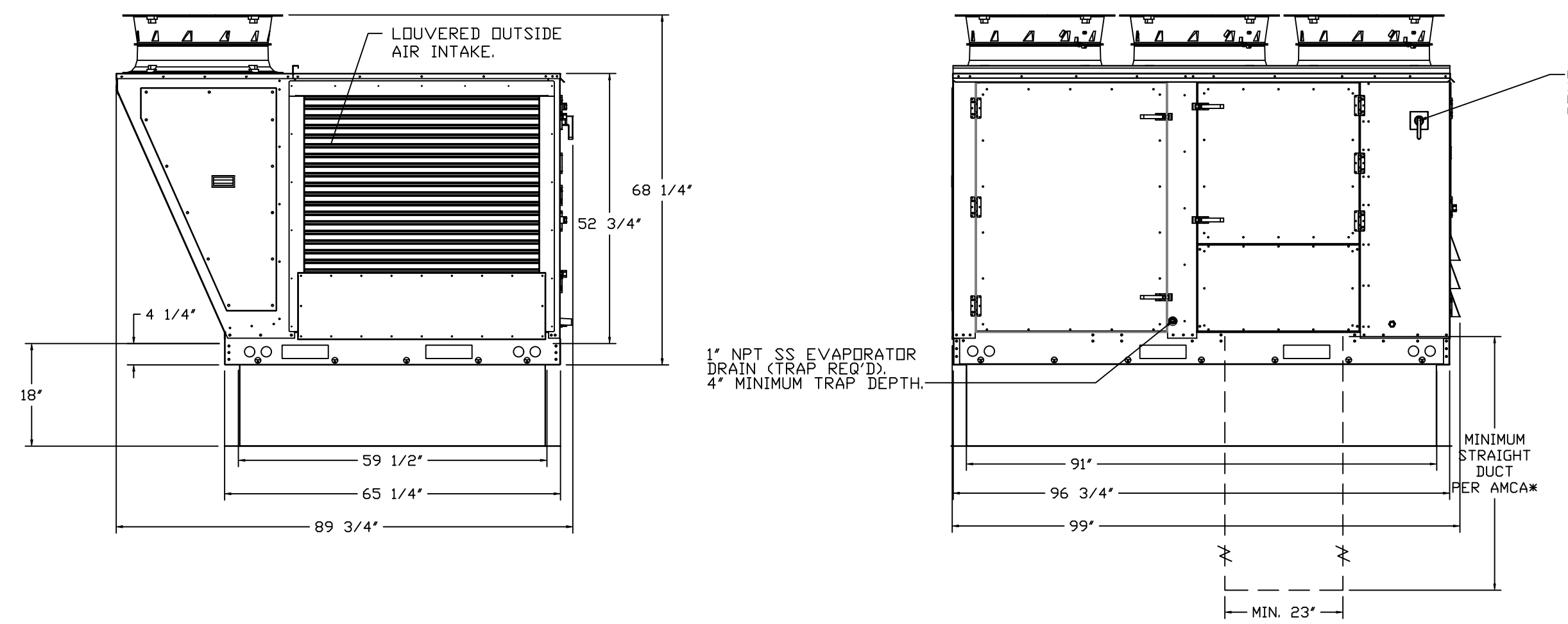
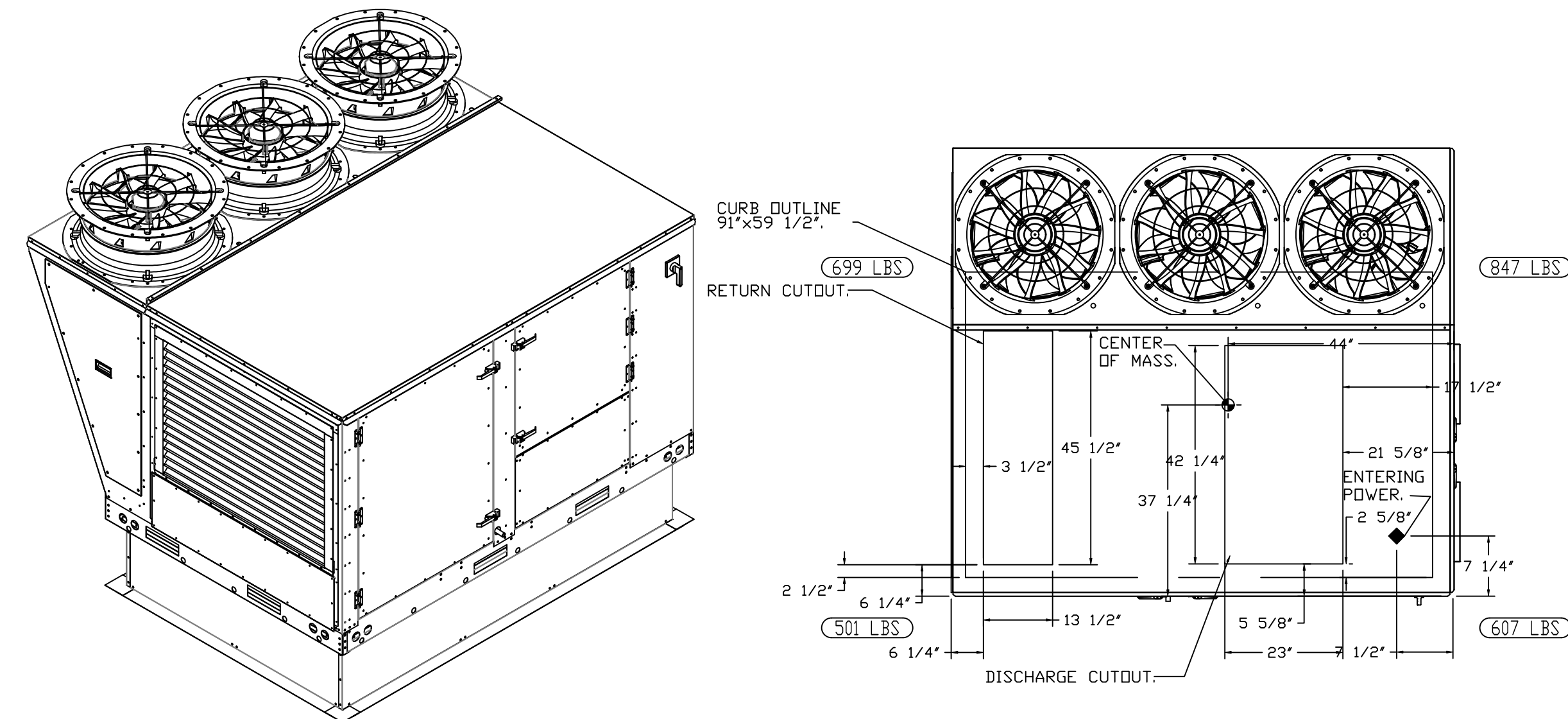
FAN #1 CAS-HVAC3-E.452-24MF-20T - HEATER (RTU-1 DINING)

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 STRAIGHT DUCT SIZE IS 23" x 39".



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DESCRIPTION	DATE

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DWG.#: 7372582
DRAWN BY: sluddy jr
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO.
8

FAN #2 CAS-HVAC3-E.302-24MF-20T - HEATER (RTU-2 KITCHEN)

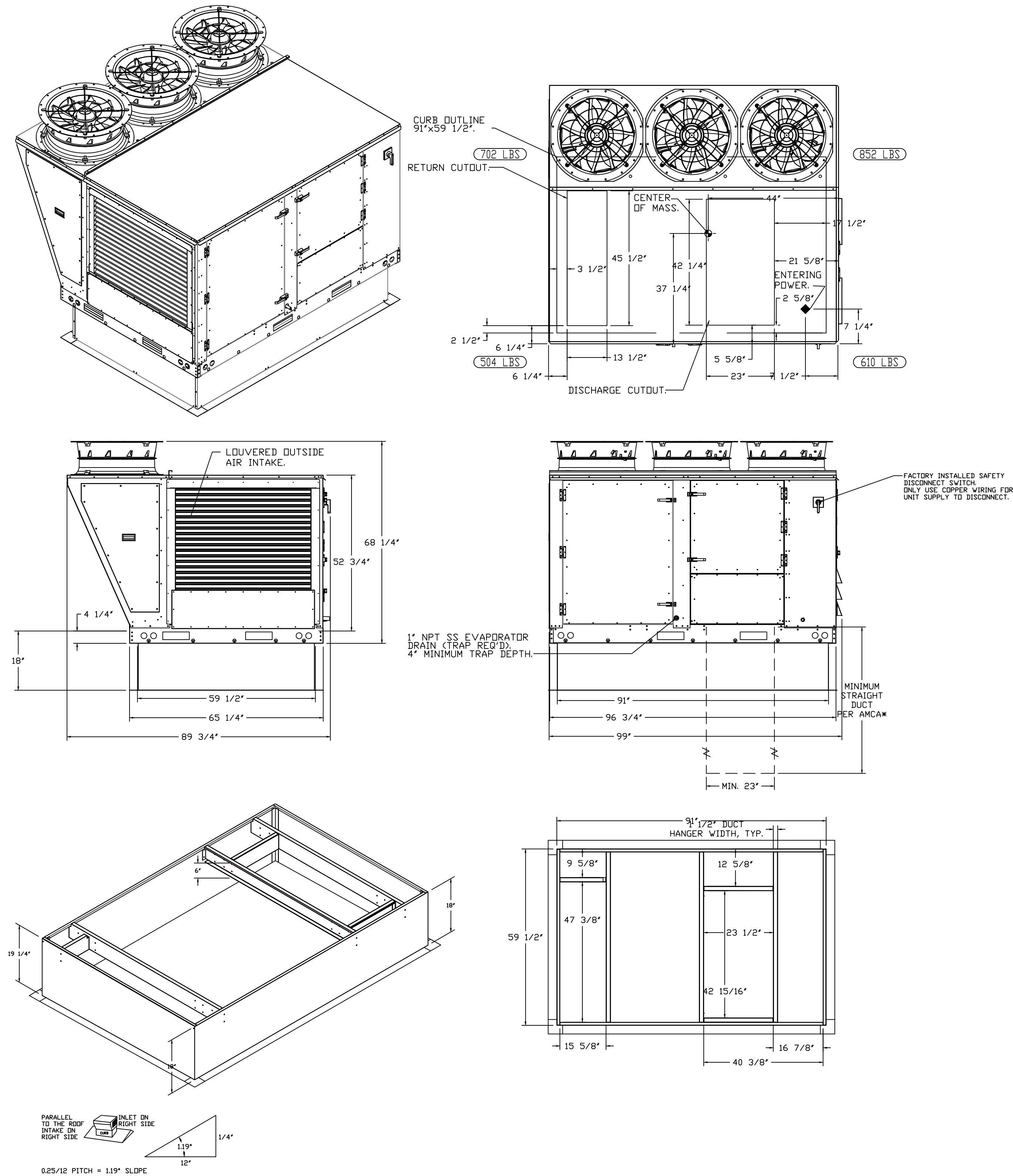
NOTES:

- 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 STRAIGHT DUCT SIZE IS 23" x 39".



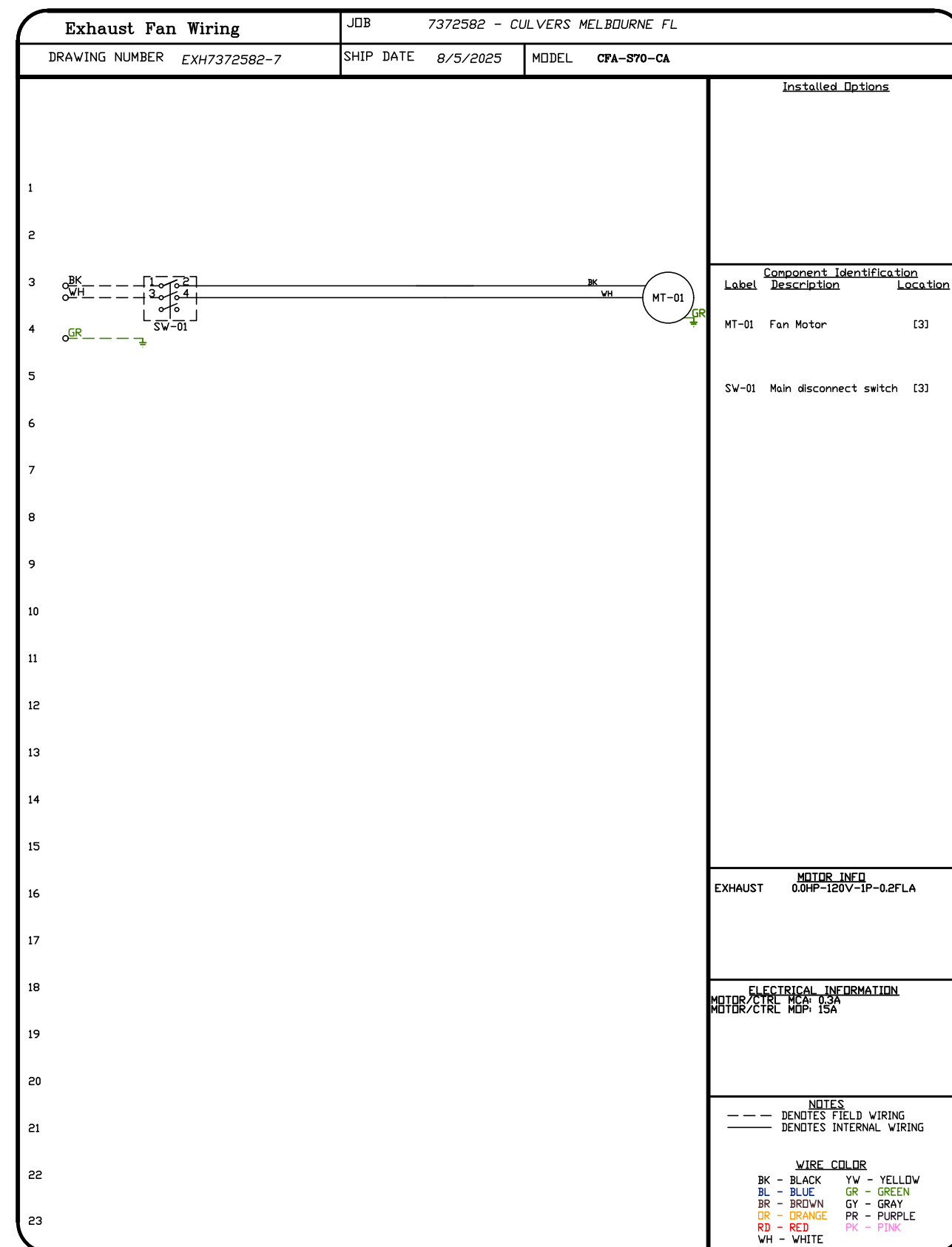
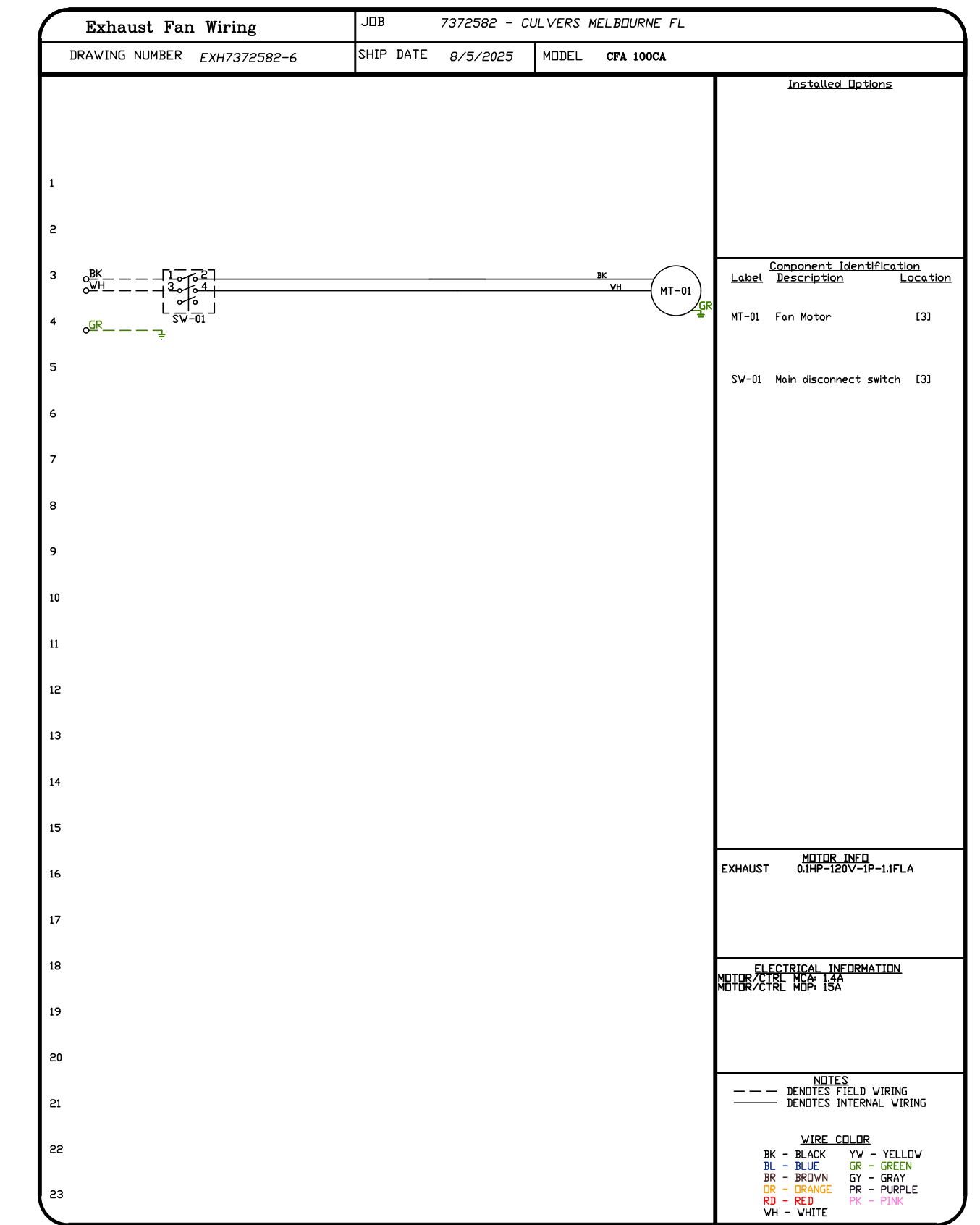
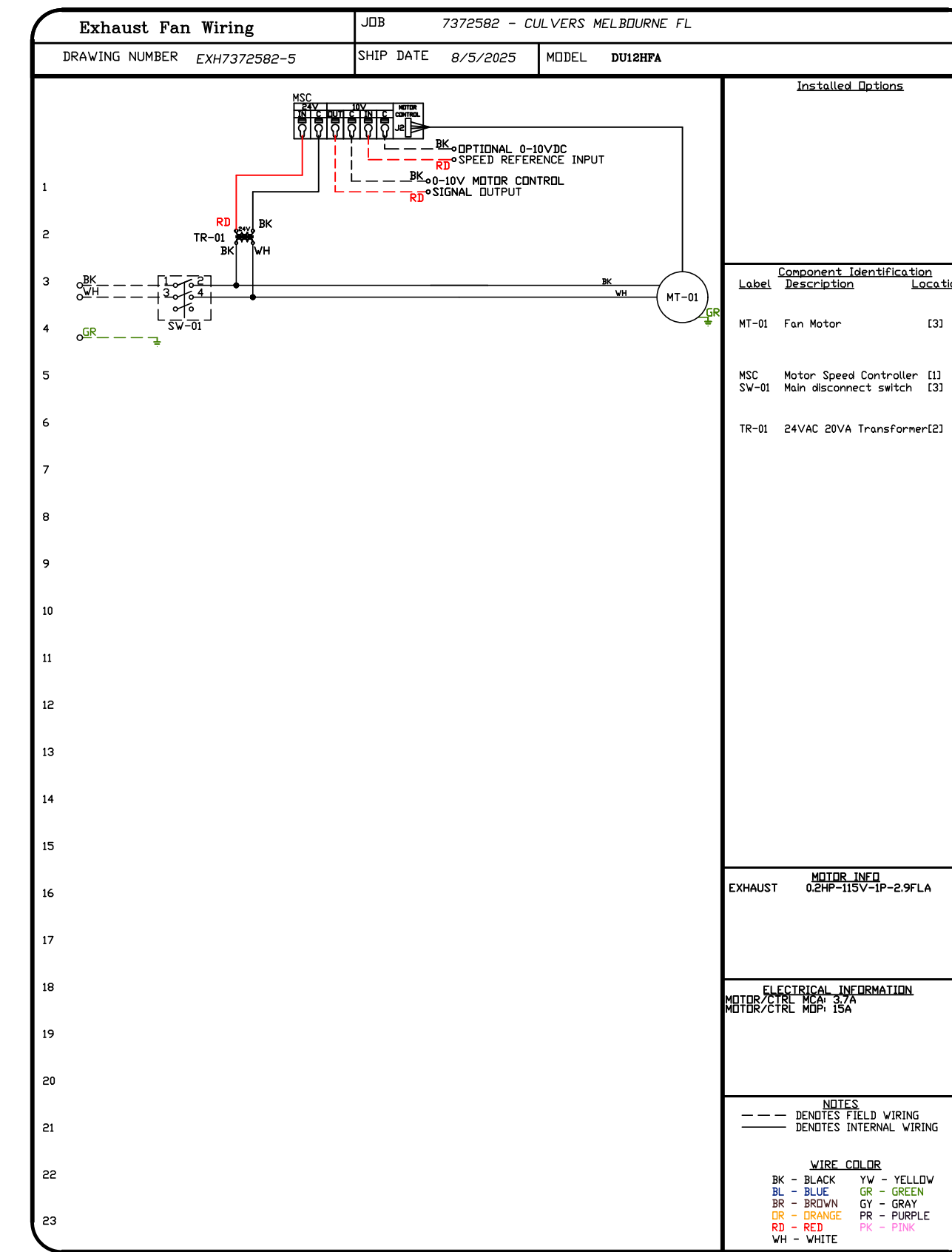
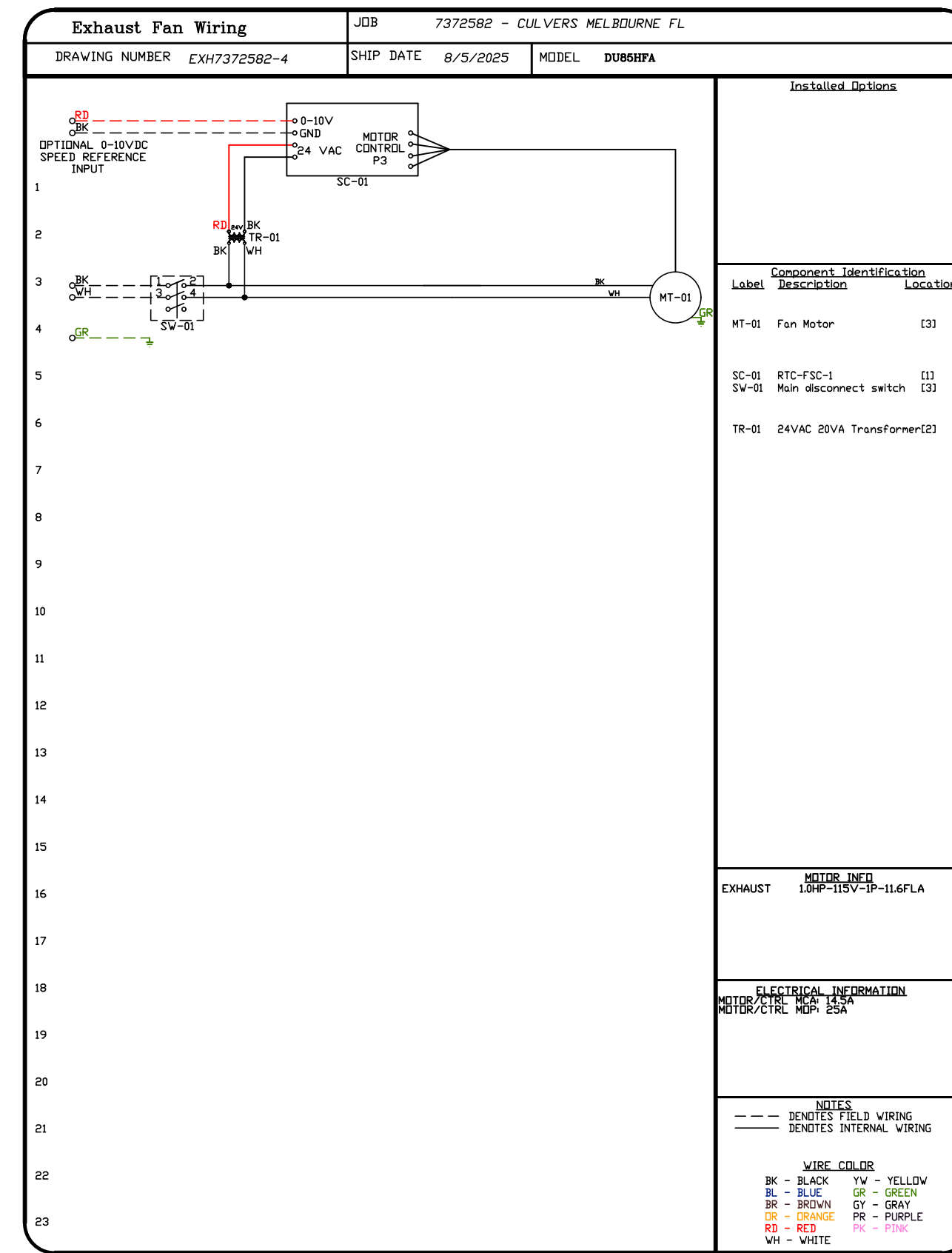
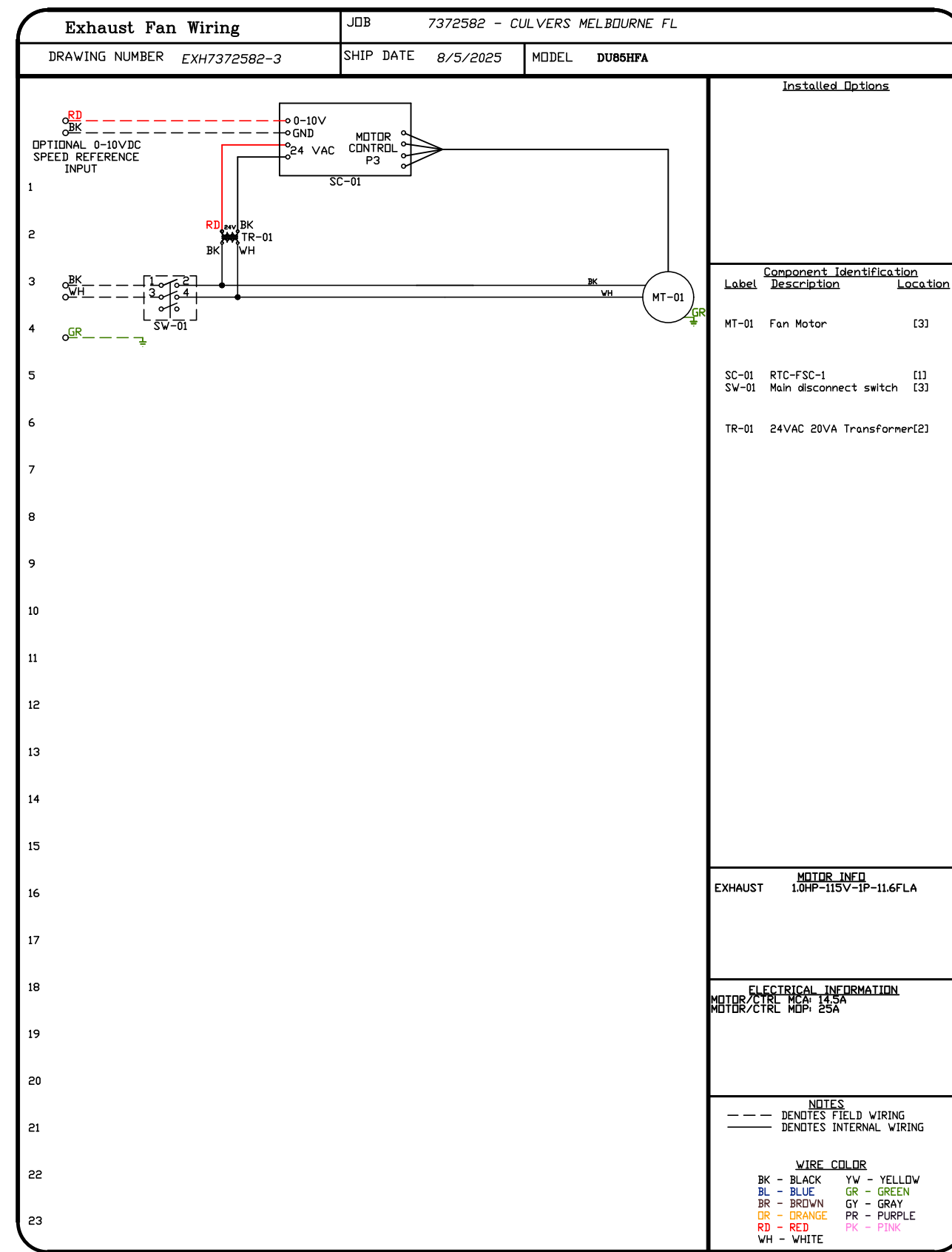
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 MELBOURNE, FL, 32935

DATE: 8/5/2025
 DWG.#: 7372582
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 SCALE: 1/2" = 1'-0"
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SHEET NO.
 9



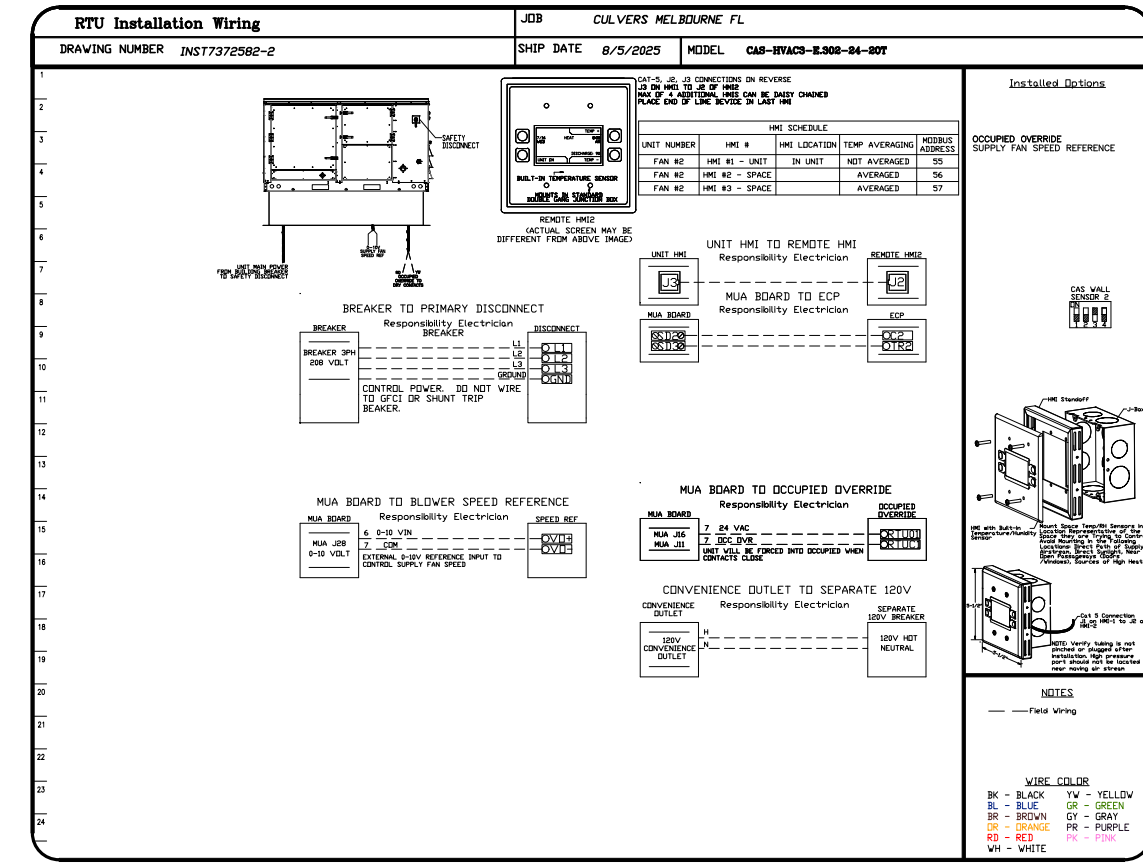
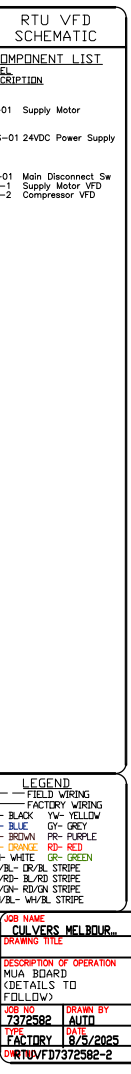
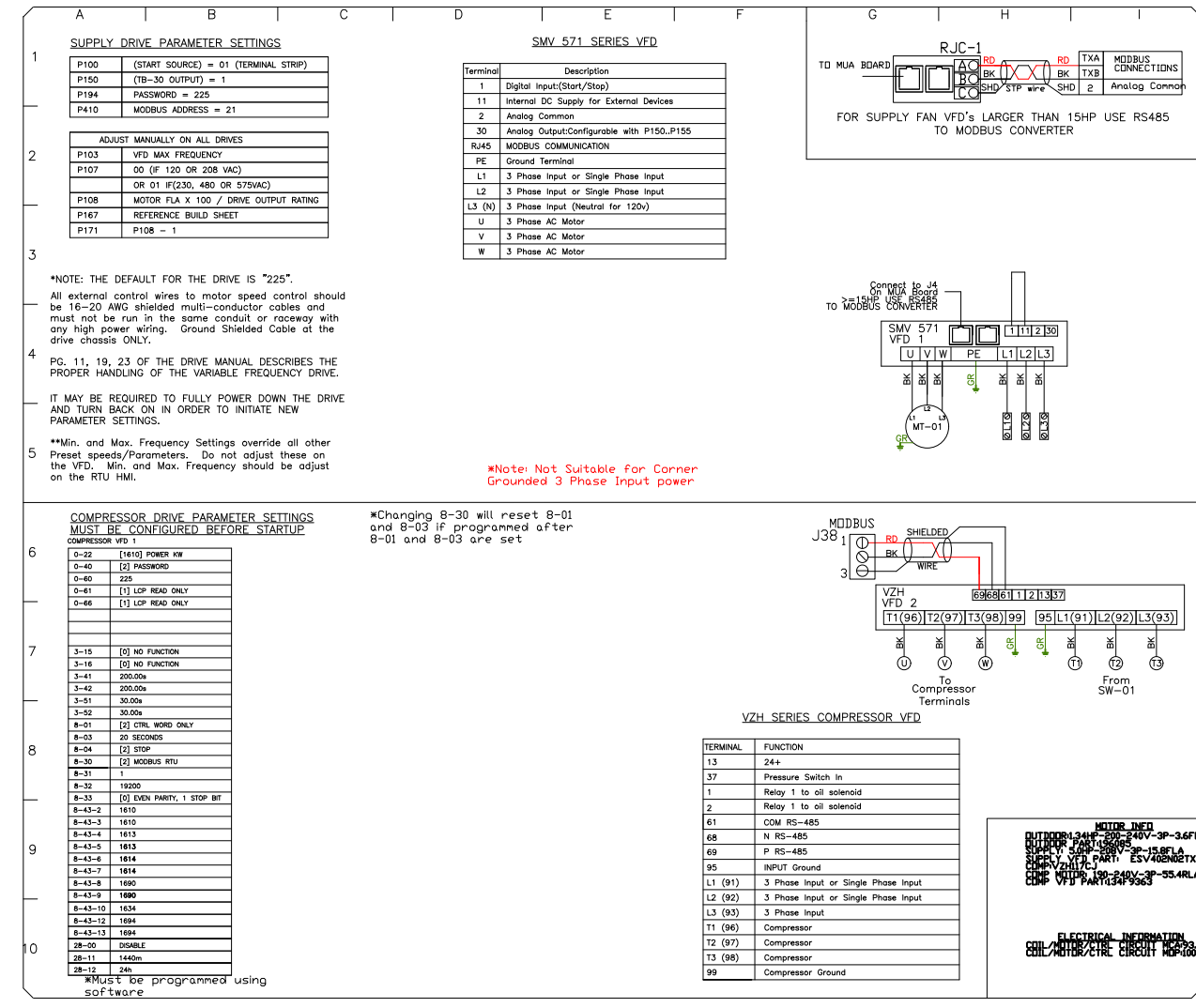
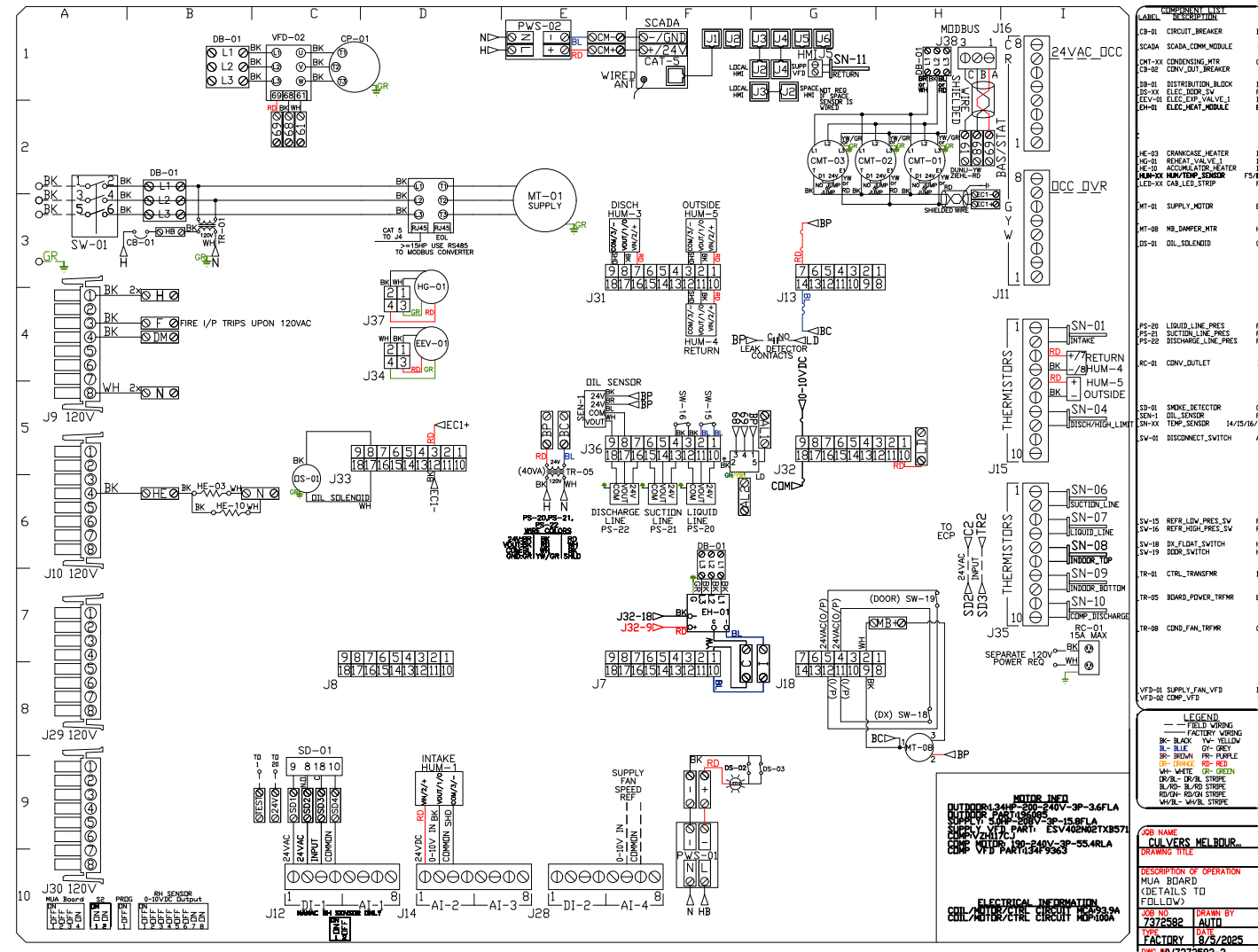
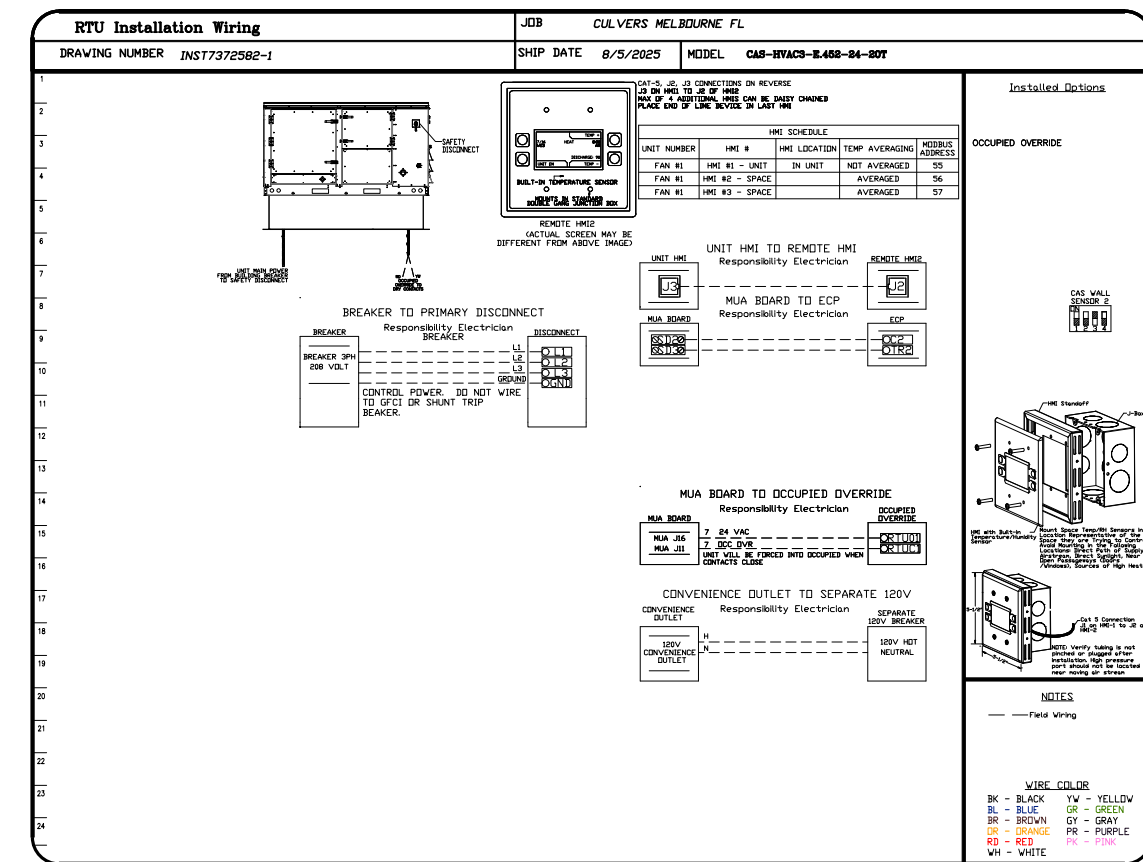
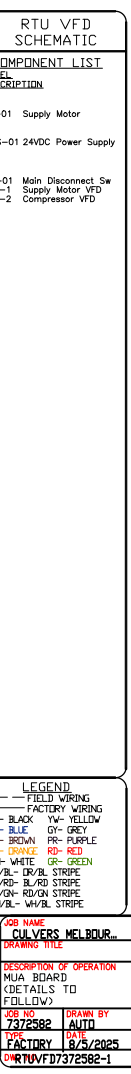
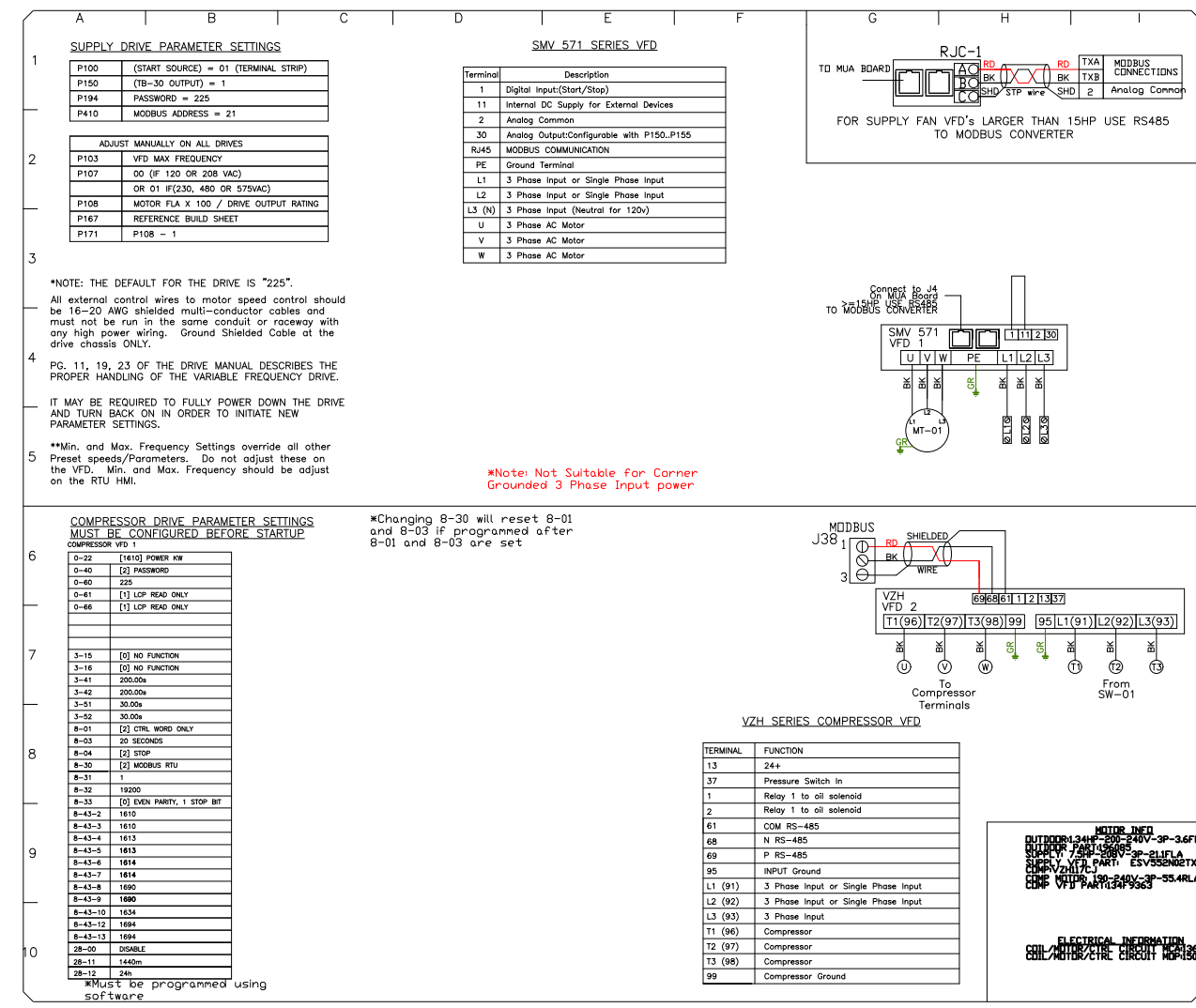
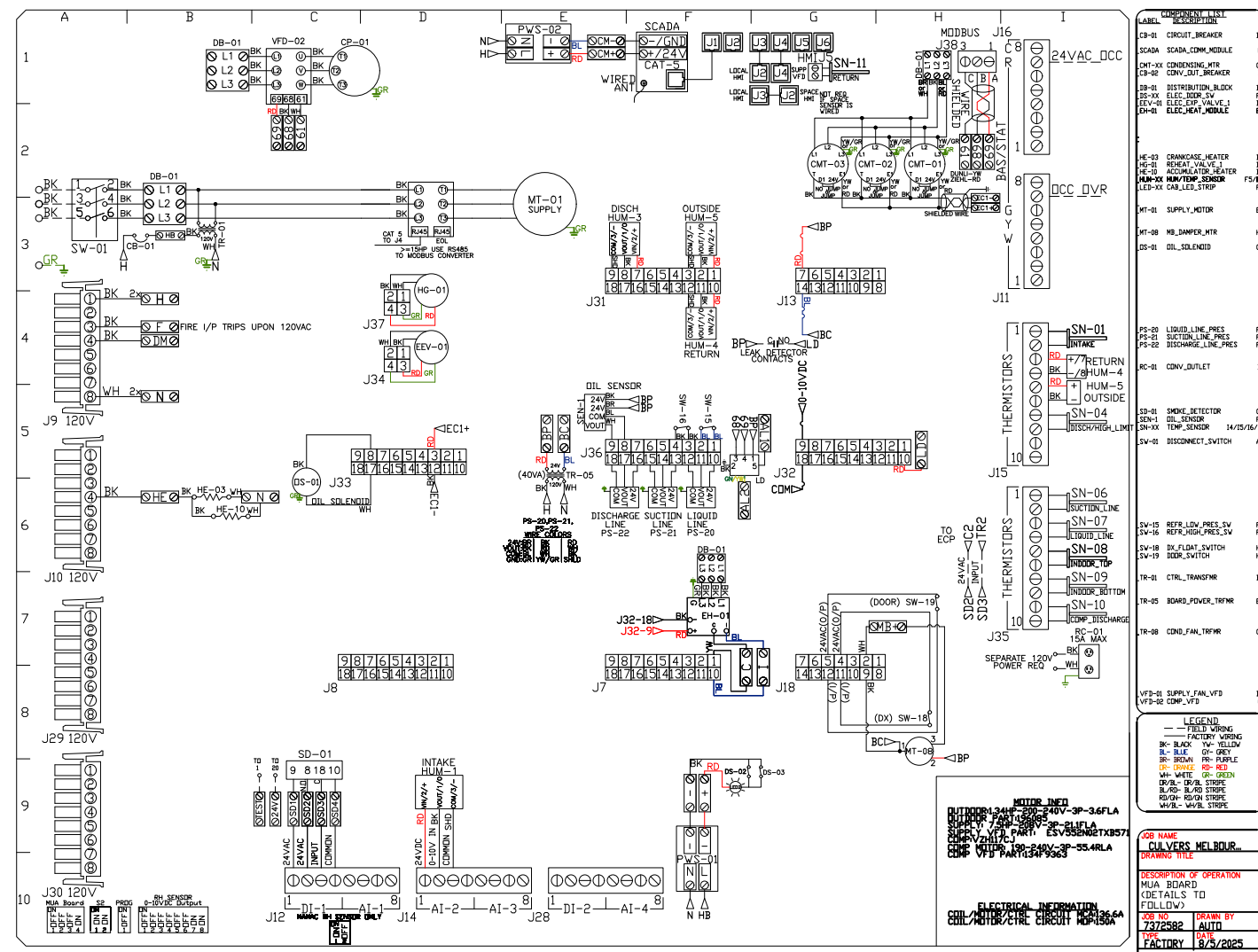
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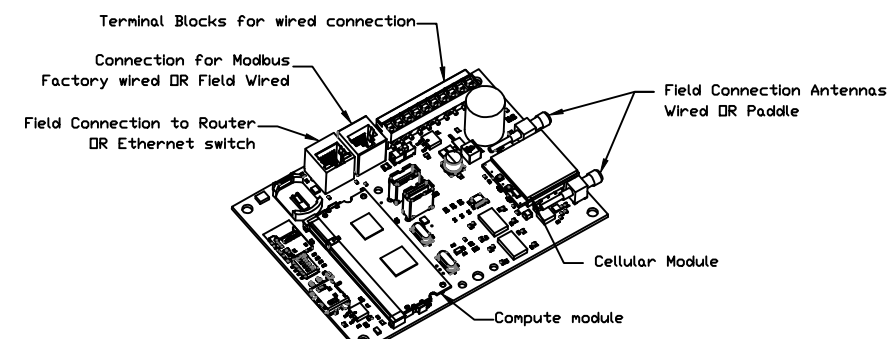
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SHEET NO.
 11

ELECTRICAL PACKAGE - JOB#7372582

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

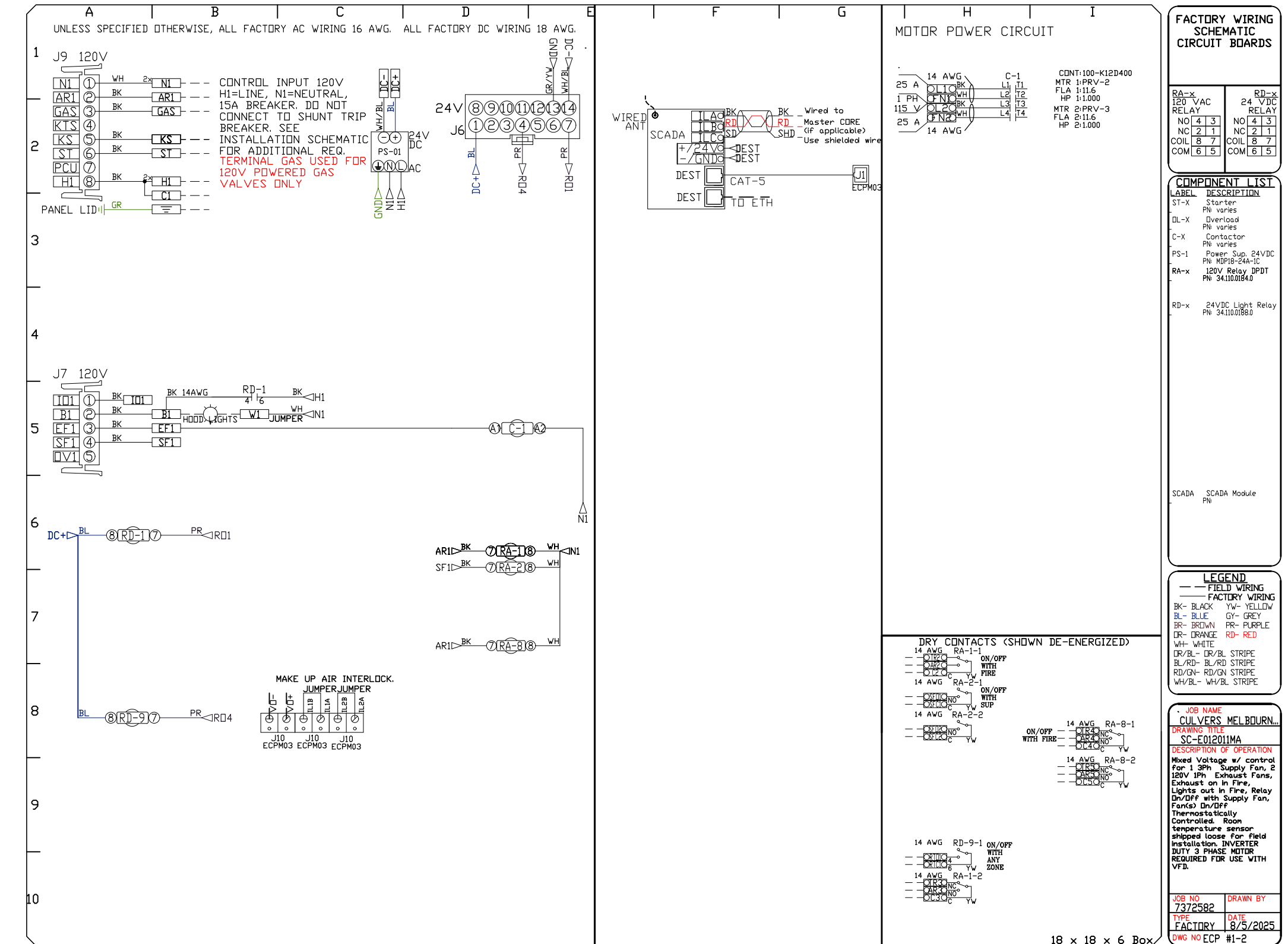
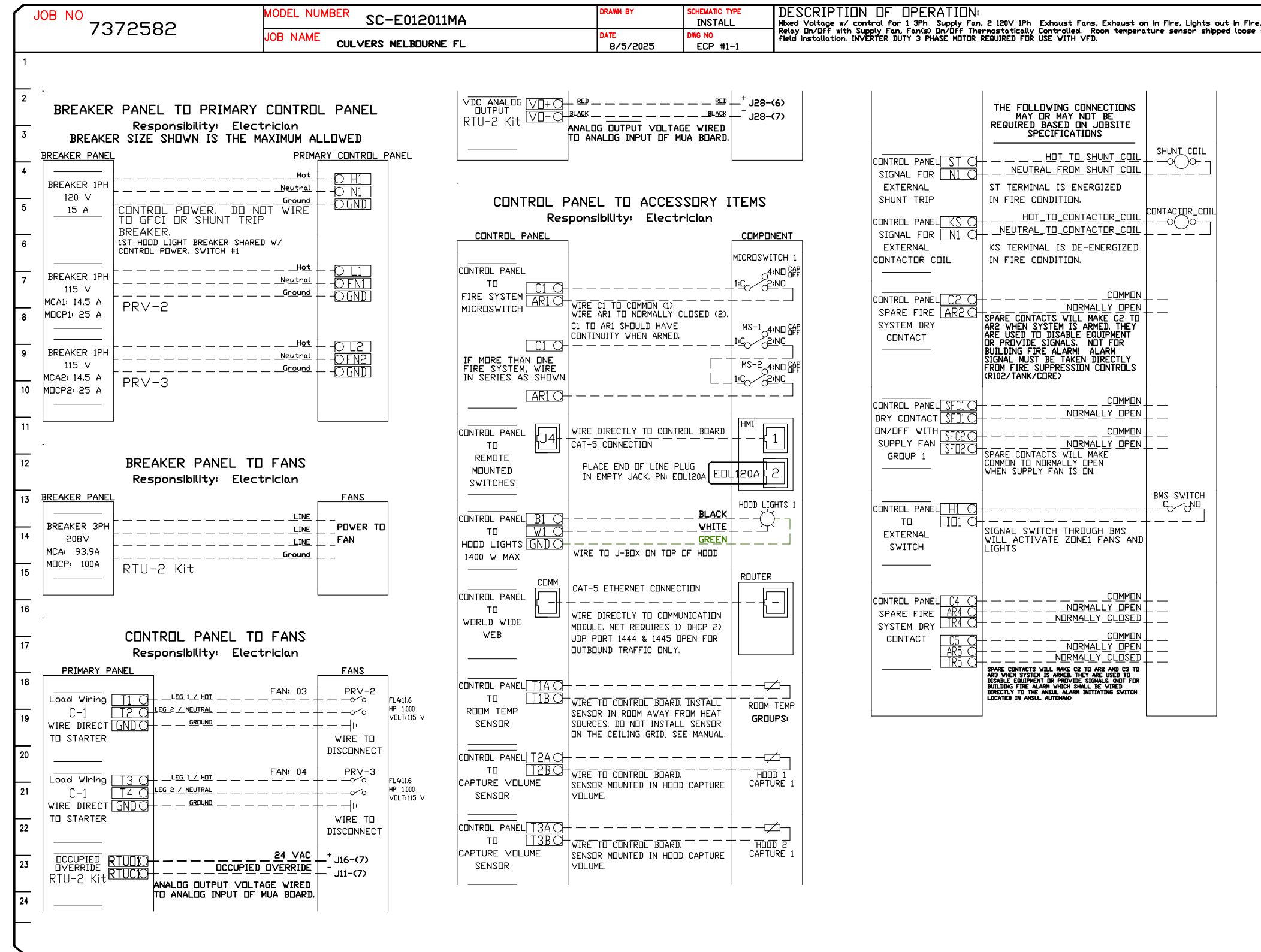


CASlink Monitor and Control

- 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 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 Status	MONITOR
Fan Power	MONITOR	PCU Faults	MONITOR
VFD Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Controller Faults	MONITOR	Fan Status	MONITOR
Fan Status	MONITOR	PCU Filter Clog Percentages	MONITOR
PCU Faults	MONITOR	Fire Condition	MONITOR
PCU Filter Clog Percentages	MONITOR	CORE Fire System	MONITOR
Fire Condition	MONITOR	Building Pressures	MONITOR
CORE Fire System	MONITOR	Prep Time Button	MONITOR & CONTROL
Building Pressures	MONITOR	Fans Button	MONITOR & CONTROL
Prep Time Button	MONITOR & CONTROL	Lights Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL	Wash Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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SHEET NO. 12

DUCTWORK #1 PARTS - JOB#7372582 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	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P5	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 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.
P5 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 OD 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	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P8	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P10	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 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.
P10 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 OD 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		6	DUCT - 12" DUCT - 16" DOUBLE *V* CLAMP - 2R INSULATION & SINGLE *V* CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							522.28			

DOUBLE WALL FACTORY BUILT DUCTWORK

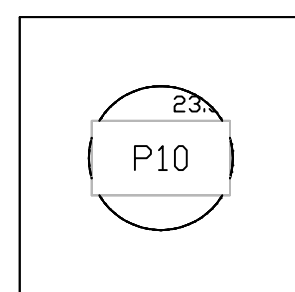
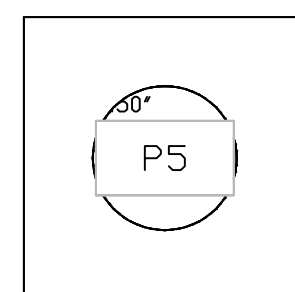
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

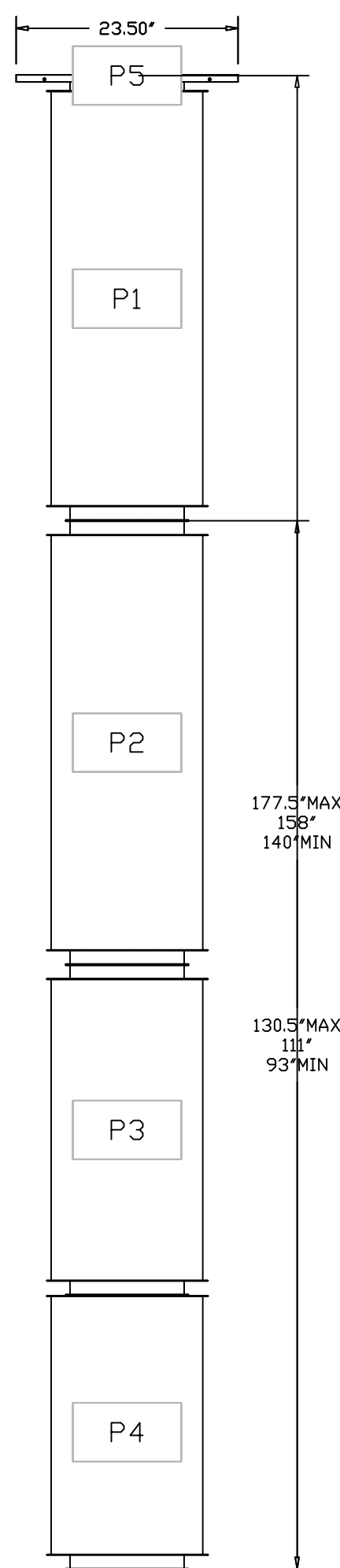
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

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

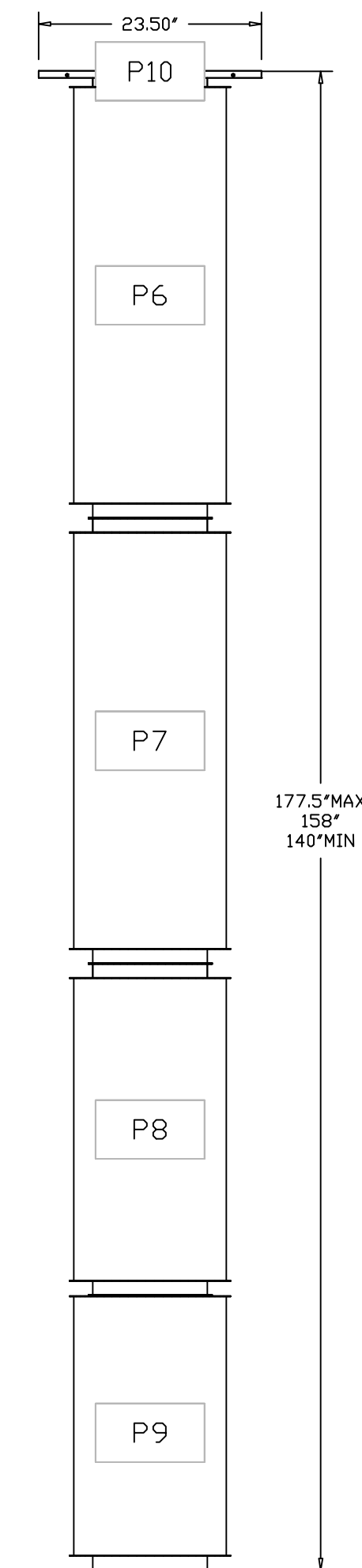
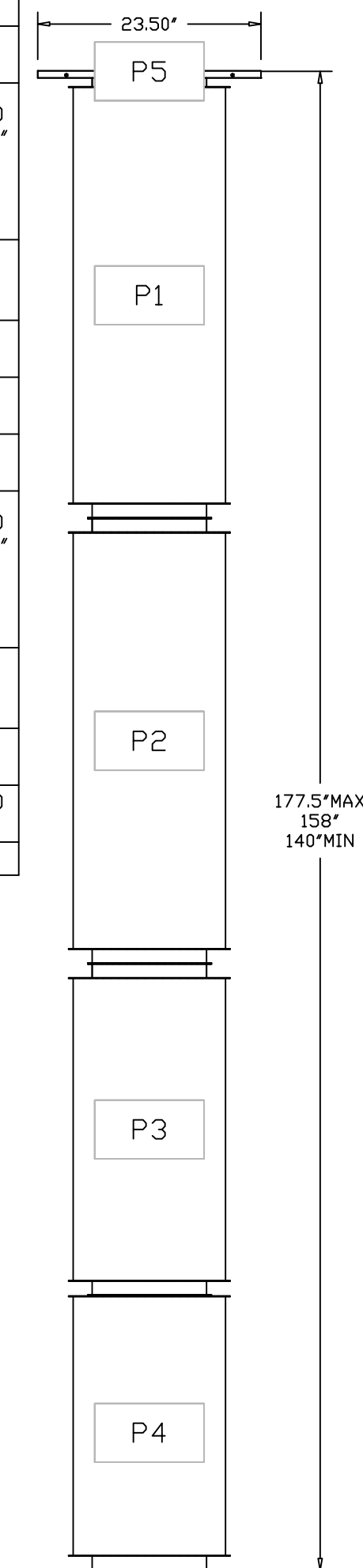
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



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DESCRIPTION	DATE

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 MELBOURNE, FL, 32935

DATE: 8/5/2025

 DWG #: 7372582

 DRAWN BY: sluddy jr

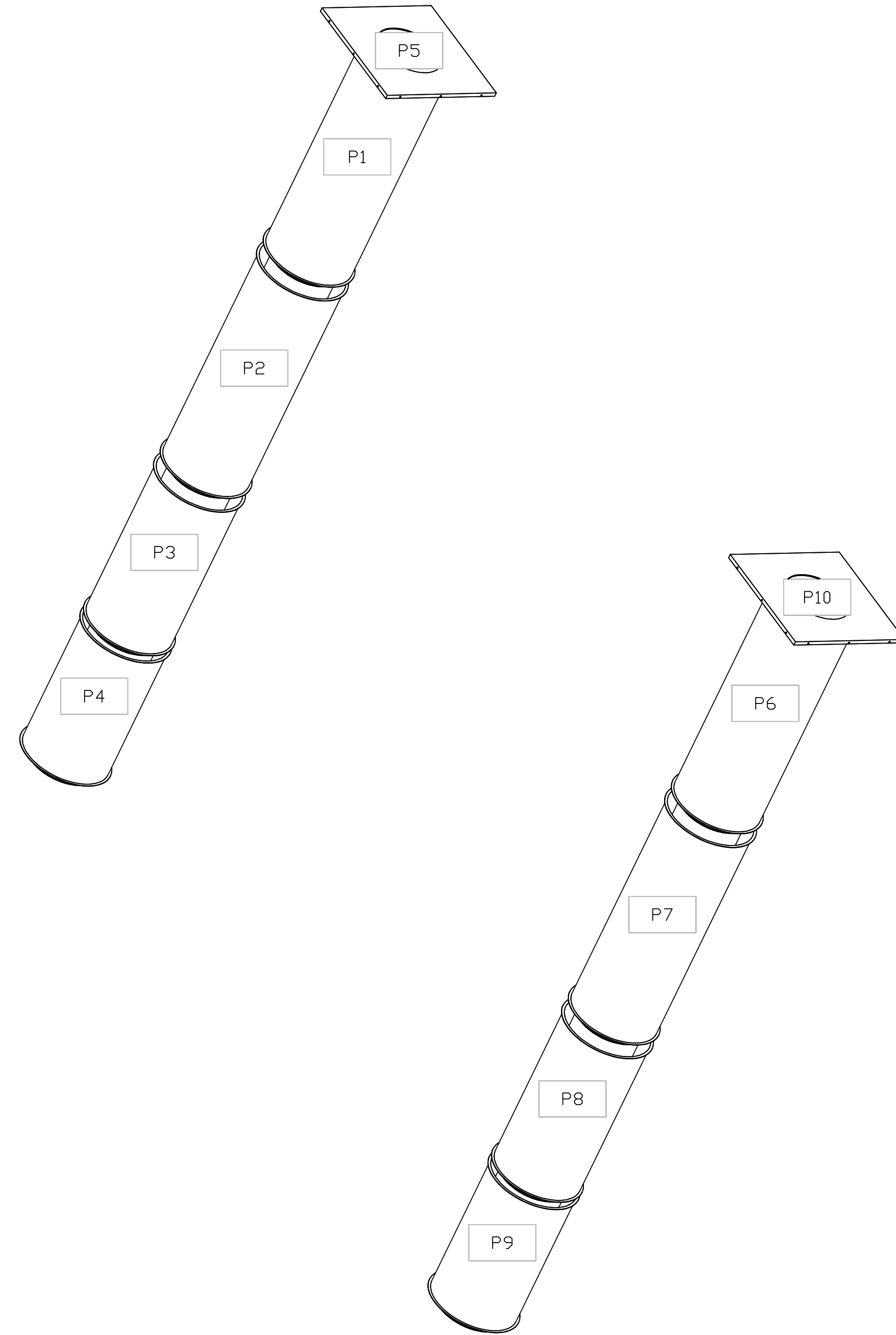
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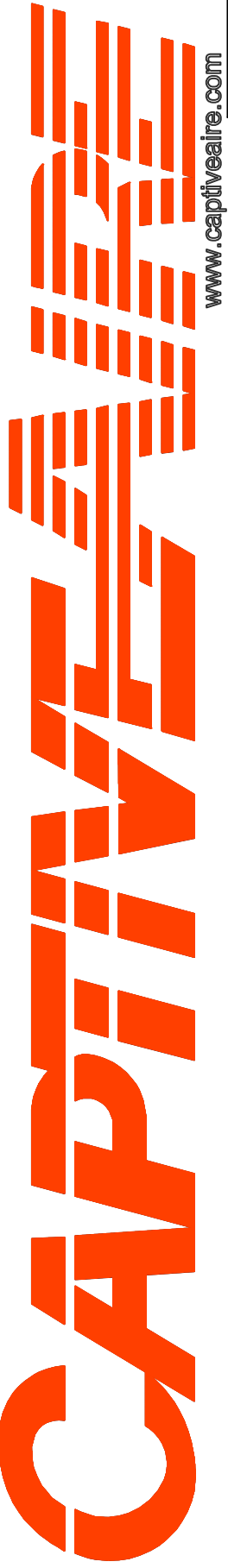
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DUCTWORK #1 SE VIEW
GREASE DUCT



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SHEET NO.
 14

DUCTWORK #2 PARTS - JOB#7372582 DISH DUCT

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW0811LT	350				-0.0029	3.13	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 11' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	DW0890ASY	350				-0.046	4.77	1002.68	1	SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.
P3	DW0807LT	350				-0.0018	2.08	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 7' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4	DW0818AJDKIT	350				-0.0026	6.80	1002.68	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	1002.68	1	SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.
P6	DW0847LT	350				-0.0123	12.59	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P7	DW0847LT	350				-0.0123	12.59	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P8	DW0847LT	350				-0.0123	12.59	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P9	DW0848AJDKIT	350				-0.0097	15.32	1002.68	1	SINGLE WALL DUCT ADJUSTABLE, 8" DIAMETER, 47.5' LONG, FLANGE AT ONE END WITH A 8" ADJUSTABLE COLLAR - STAINLESS STEEL.
P10	DW0890ASY	350				-0.0263	4.77	1002.68	1	SINGLE WALL DUCT 90 DEGREE ELBOW, 8" DUCT, ASSEMBLY.
P11	DW0835LT	350				-0.0091	9.44	1002.68	1	SINGLE WALL DUCT 8" DIAMETER, 35' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P12 ASSEMBLED W/P13	DW0848AJDKIT	350				-0.0101	15.32	1002.68	1	SINGLE WALL DUCT ADJUSTABLE, 8" DIAMETER, 47.5' LONG, FLANGE AT ONE END WITH A 8" ADJUSTABLE COLLAR - STAINLESS STEEL.
P13 ASSEMBLED W/P12 D=B SYSTEM AT P13	DW1708TP	350				-0.2345	0.00		1	DUCT TO CURB TRANSITION, 17-1/2' CURB TO 8" DUCT, 16 GA ALUMINIZED STEEL. USED ON DUID.
P14	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.
P15	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.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW08CLASY						0.70		12	DUCT *V* CLAMP, 8" DUCT WITH NEW DESIGN 14 GA BRACKETS, ASSEMBLY.
TOTAL WEIGHT							125.47			

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 SUPPRT (FT)	VERTICAL CURB SUPPRT (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.

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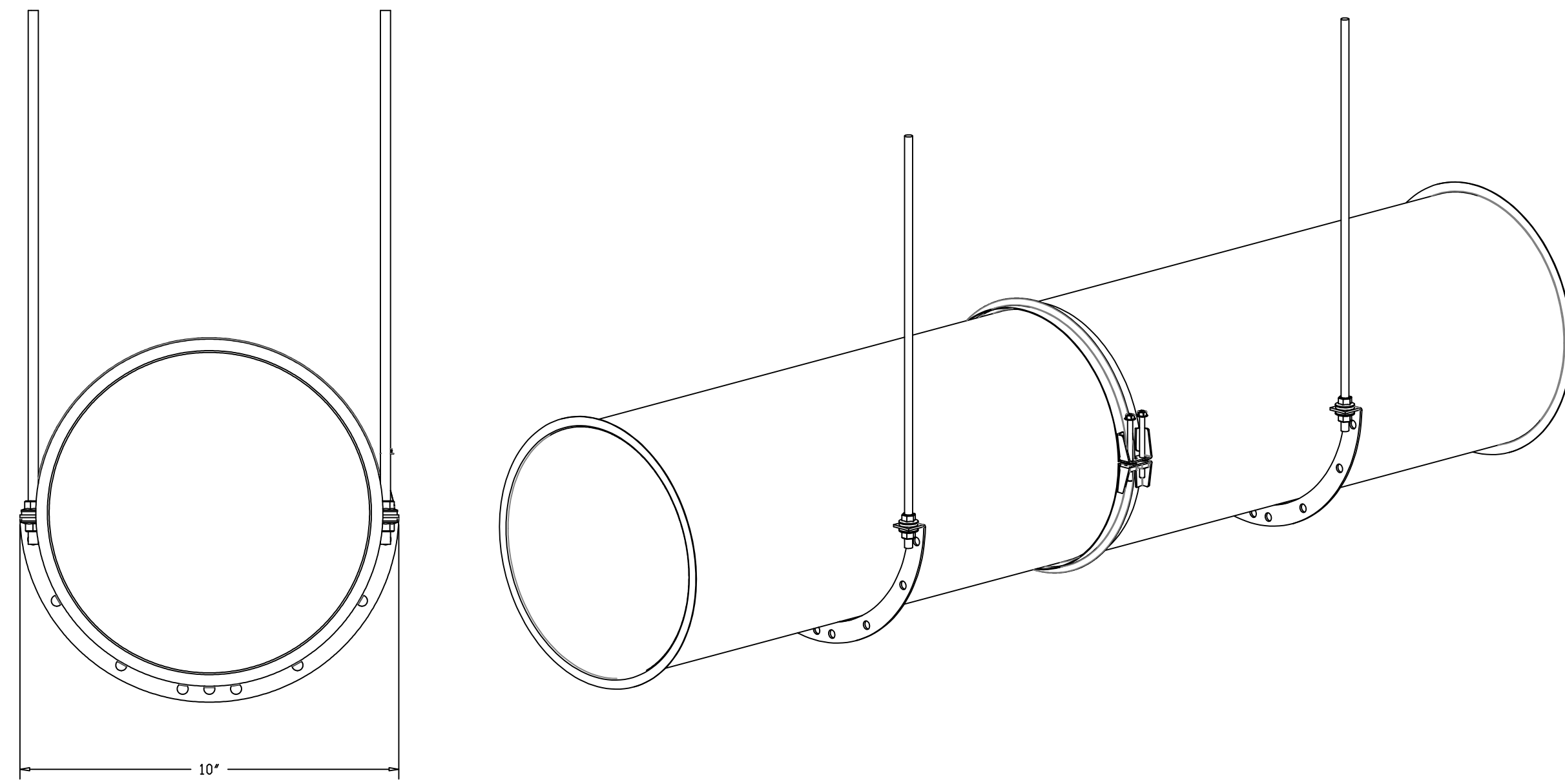
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SCALE: 3/4" = 1'-0"
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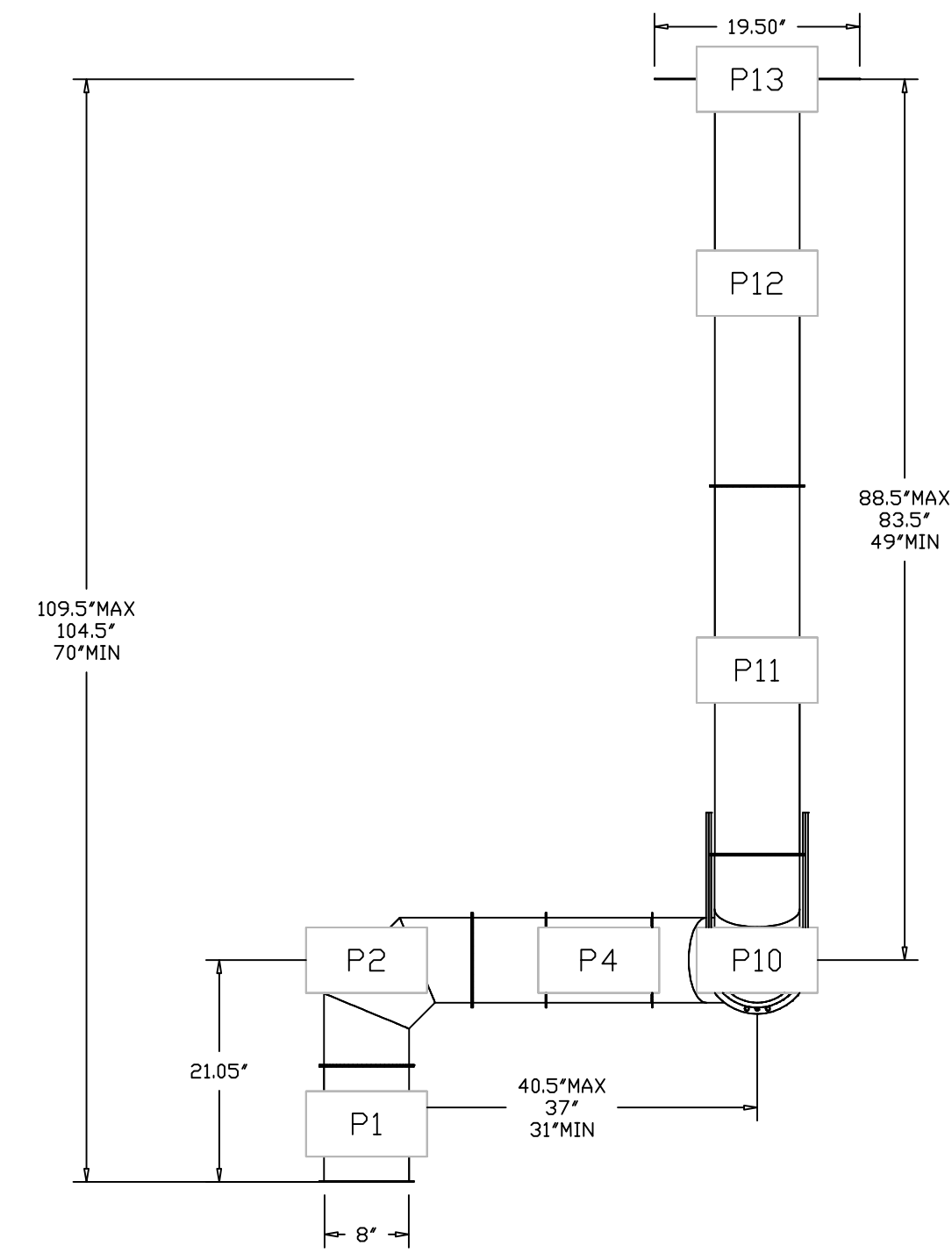
SUPPORT SYSTEM DETAILS #2

DW08SUBRASY - HORIZONTAL SUPPORT

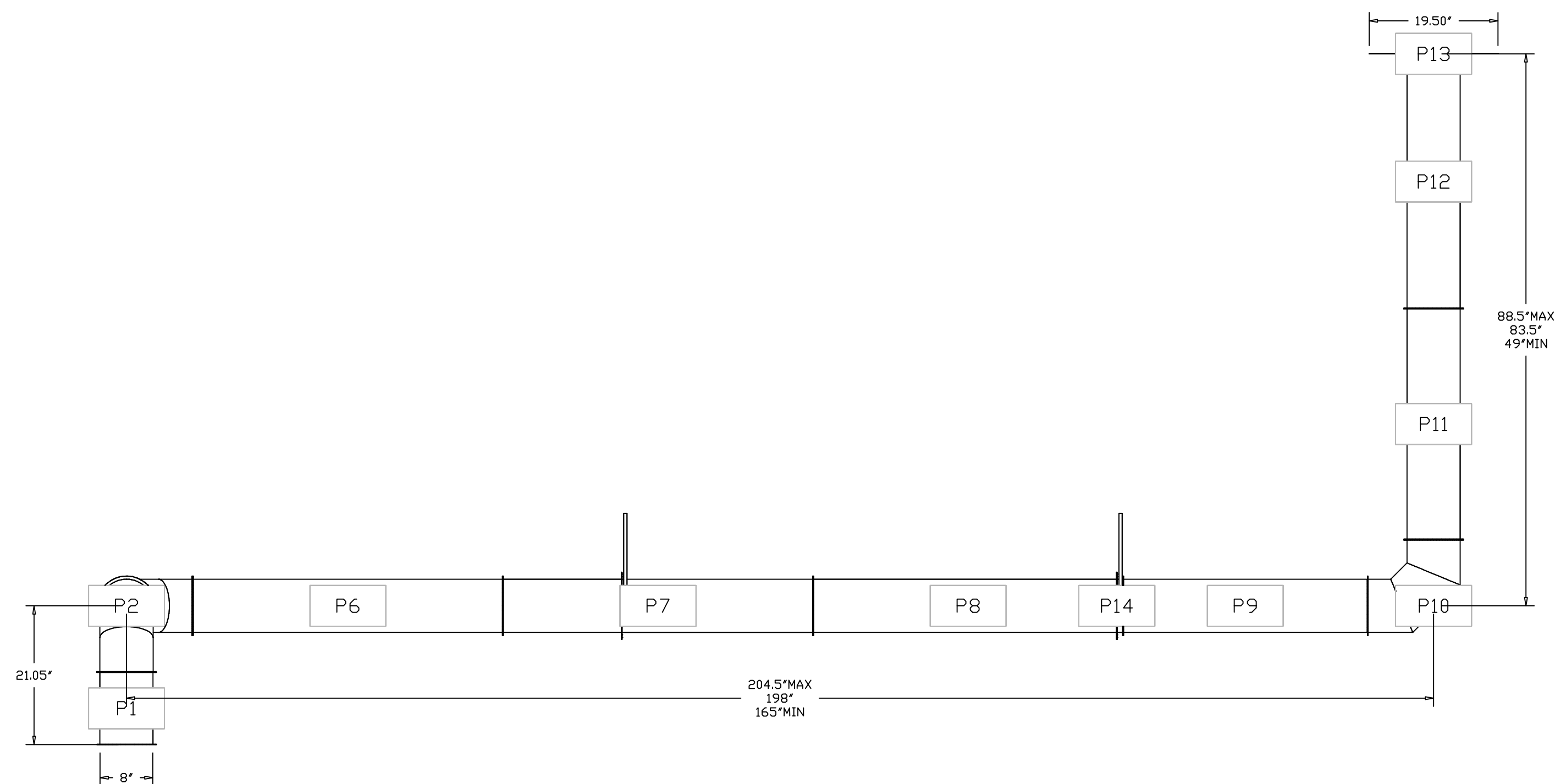
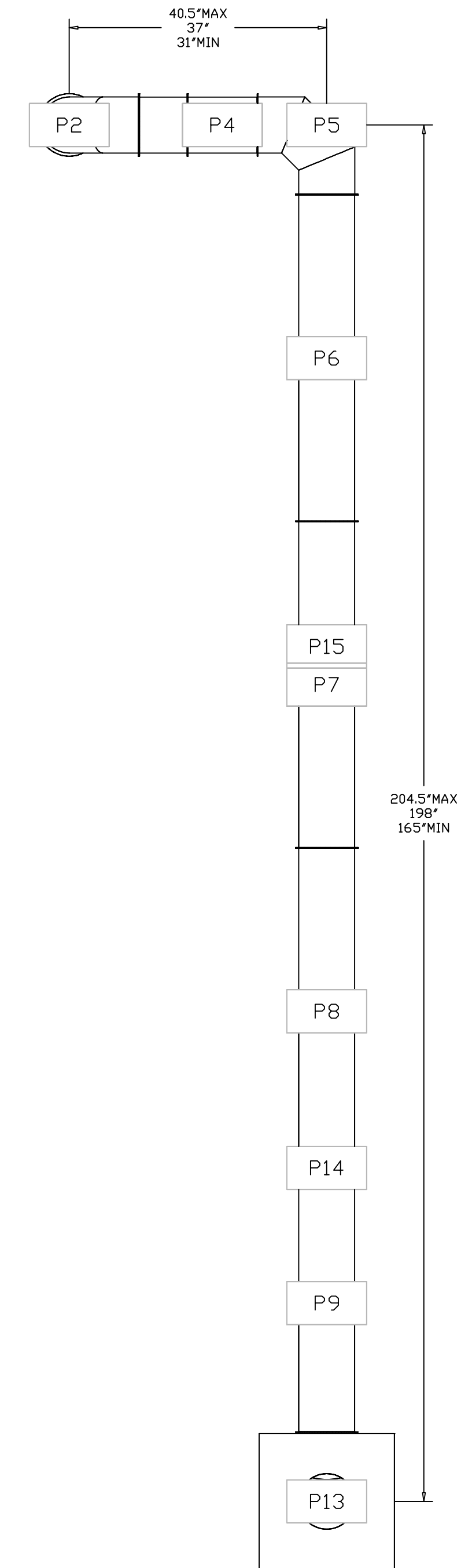


DUCTWORK #2 SIDE VIEW
DISH DUCT

DUCTWORK #2 FRONT VIEW
DISH DUCT



DUCTWORK #2 TOP VIEW
DISH DUCT



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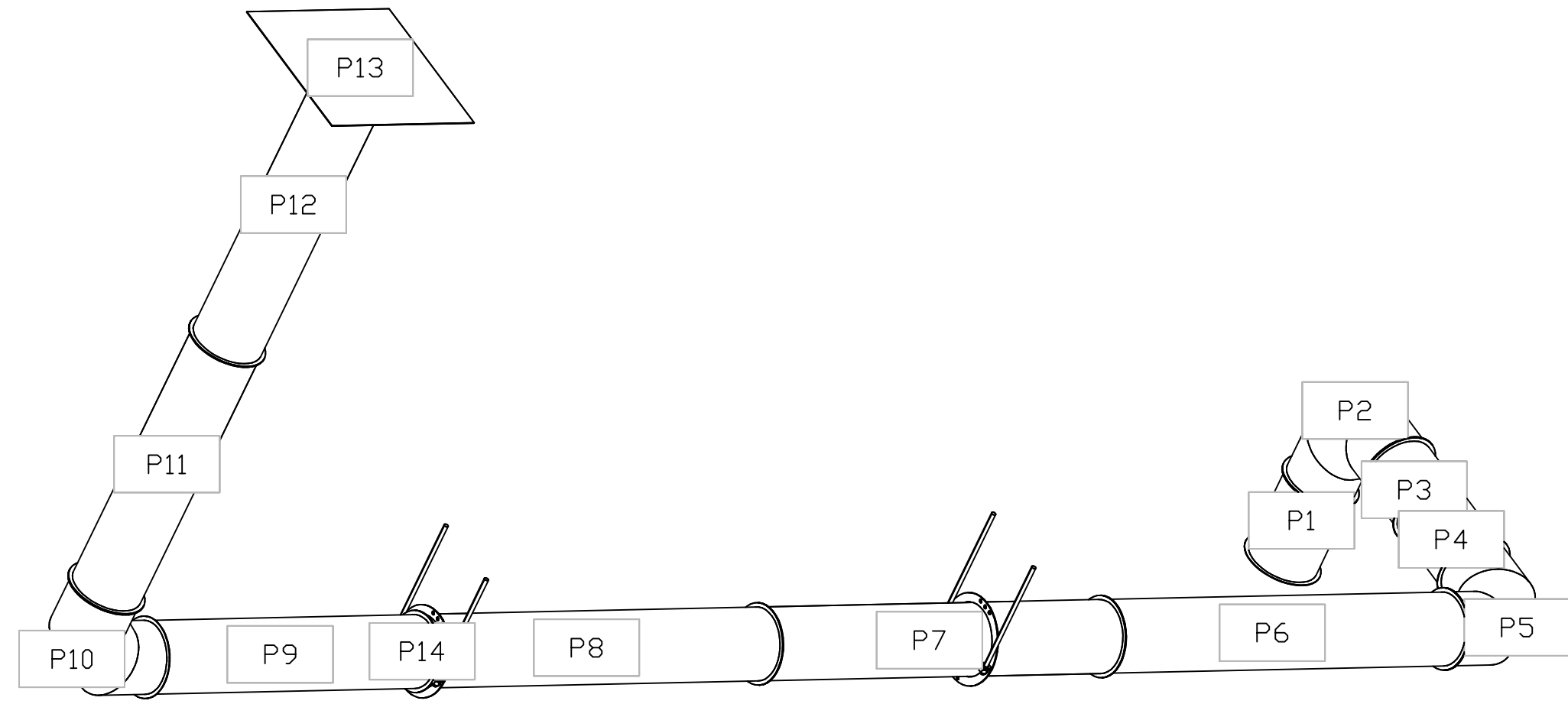

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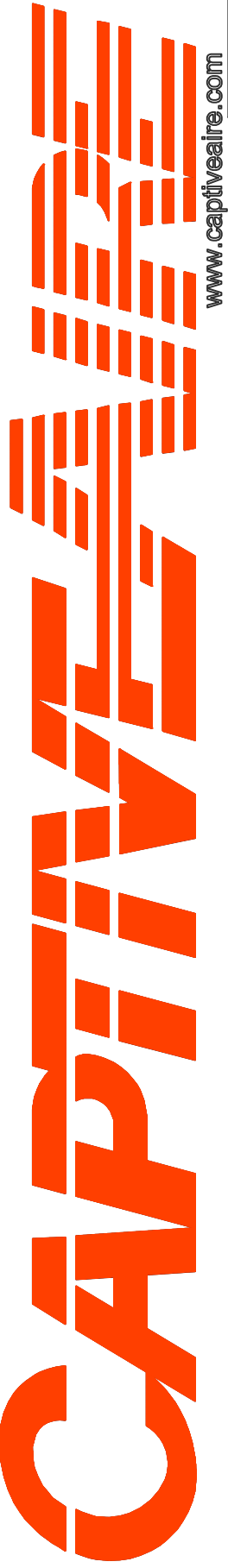
DATE: 8/5/2025
 DWG #: 7372582
 DRAWN BY: sluddy jr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
 16

DUCTWORK #2 SE VIEW
DISH DUCT



REVISIONS	
DESCRIPTION	DATE
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SHEET NO.
17

DUCTWORK #3 PARTS - JOB#7372582 DOUBLE WALL ADD DUCT

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1245DWASY-2R-S						16.53		1	DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2	DW1245DWASY-2R-S						16.53		1	DOUBLE WALL DUCT - 12" INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
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.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		6	DUCT - 12" DUCT - 16" DOUBLE 'V' CLAMP - 2R INSULATION & SINGLE 'V' CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							106.36			

DOUBLE WALL FACTORY BUILT DUCTWORK

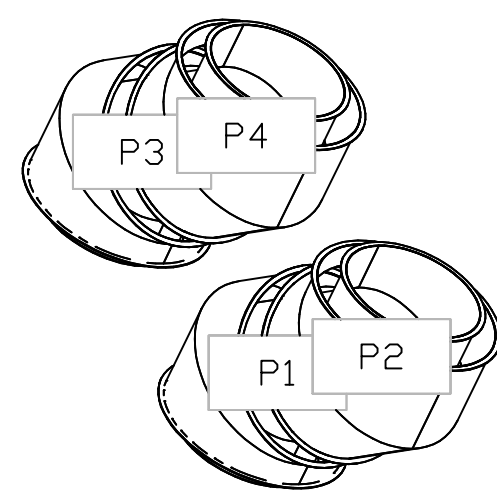
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

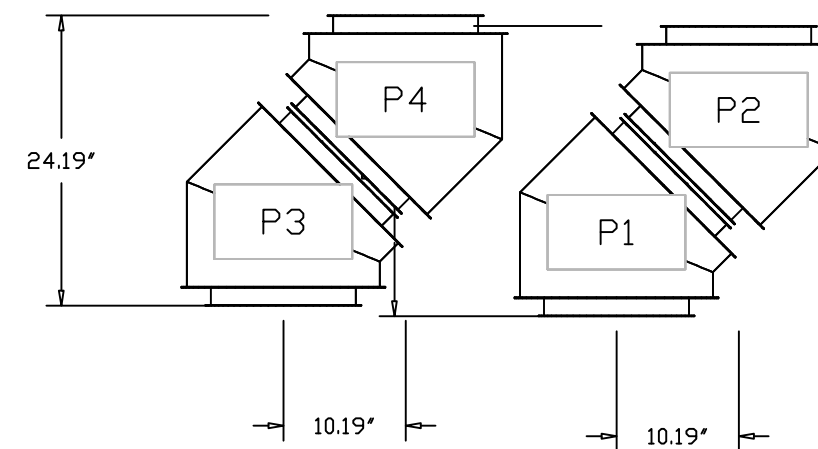
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

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

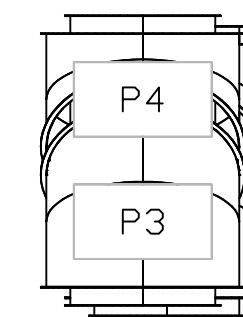
DUCTWORK #3 SE VIEW
ADD DUCT



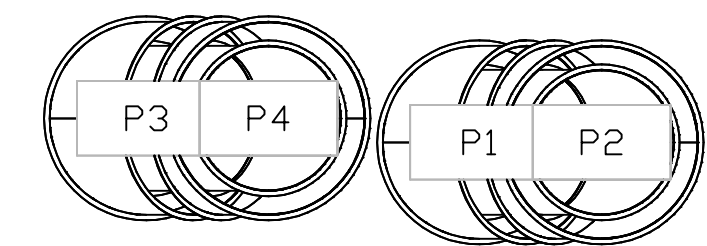
DUCTWORK #3 FRONT VIEW
ADD DUCT



DUCTWORK #3 SIDE VIEW
ADD DUCT



DUCTWORK #3 TOP VIEW
ADD DUCT



REVISIONS

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SYSTEM DESIGN VERIFICATION (SDV)

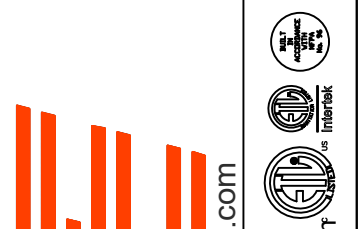
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

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

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19