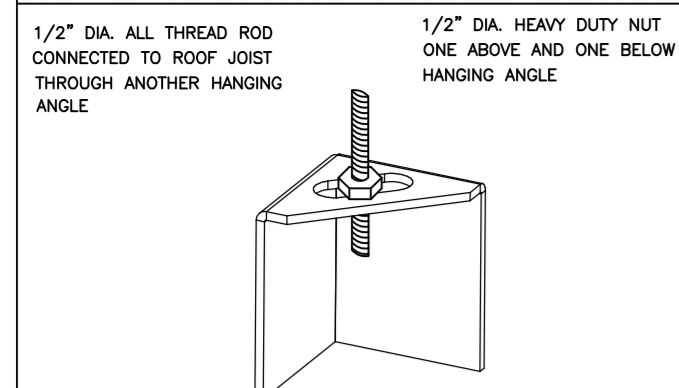


ND-2 HANGING ANGLE DETAIL



* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGING ANGLE IS PRE-FINISHED AT FACTORY.

HANGING ANGLE LOCATIONS

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24\"/>	
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF BD-2	4.166"	2.246"	-
VHB/VHB-G	36\"/>		
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

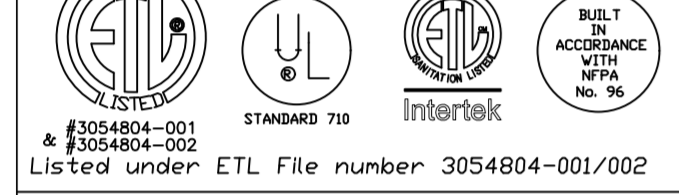
CALCULATIONS UTILIZED

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)
 SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
 TOTAL DUCT AREA=144 X $\frac{CFM}{FPM}$
 DUCT LENGTH= $\frac{TOTAL DUCT AREA}{DUCT DEPTH}$

* CAPTIVE-AIRE DUCT CONNECTION SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



Listed under ETL File number 3054804-001/002

CLEARANCE TO COMBUSTIBLES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3\"/>
COMBUSTIBLE	1\"/>

GENERAL NOTES

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTORS'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

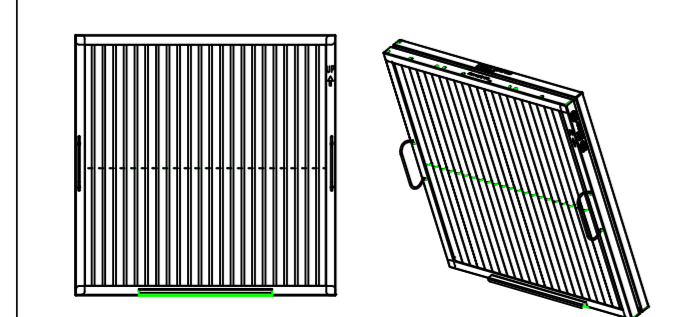
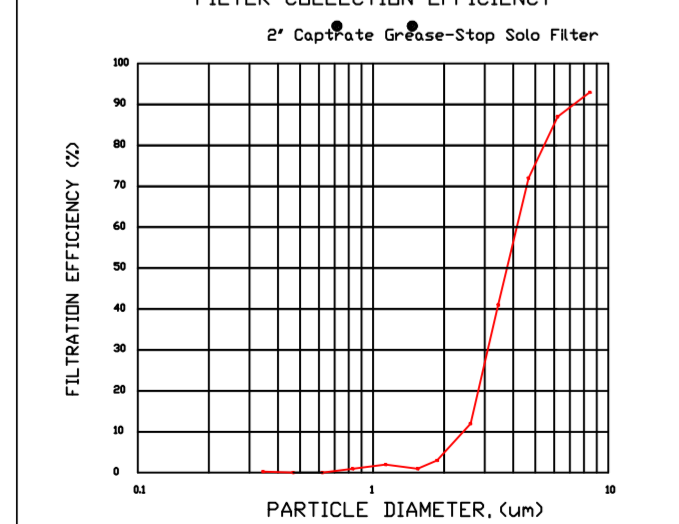
11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN TO DINING AREA.
12. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

FILTER DETAIL

FILTER COLLECTION EFFICIENCY



CaptiveAire Captrate Solo Filter
 ETL Listed Grease Extracting Filter
 Made From 430 Stainless Steel

HOOD INFORMATION - JOB#5474708

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP
1	Item 52	5424 ND-2	CAPTIVEAIRE	12' 11"	450 DEG	I	MEDIUM	225	2910	4"	12"	1455	1853	-0.988"	430 SS WHERE EXPOSED	LEFT	FRONT
2	Item 53	5424 ND-2	CAPTIVEAIRE	7' 5"	450 DEG	I	MEDIUM	150	1115	4"	10"	1115	2044	-0.860"	430 SS WHERE EXPOSED	RIGHT	FRONT
3	Item 75	5424 VHB-ND	CAPTIVEAIRE	13' 6"	700 DEG	II	N/A	150	2025	4"	12"	1012	1289	-0.133"	430 SS 100%	ALONE	BACK

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL			SWITCHES
1	Item 52	CAPTRATE SOLO FILTER	9	16'	16'	85% SEE FILTER SPEC	4	RECESSED ROUND	NO						NO	772 LBS
2	Item 53	CAPTRATE SOLO FILTER	5	16'	16'	85% SEE FILTER SPEC	2	RECESSED ROUND	NO						NO	440 LBS
3	Item 75		4				4	RECESSED ROUND	NO	LEFT	12\"/>					

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Item 52	FIELD WRAPPER 18.00\"/>
2	Item 53	FIELD WRAPPER 18.00\"/>
3	Item 75	RIGHT QUARTER END PANEL 23\"/>

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.

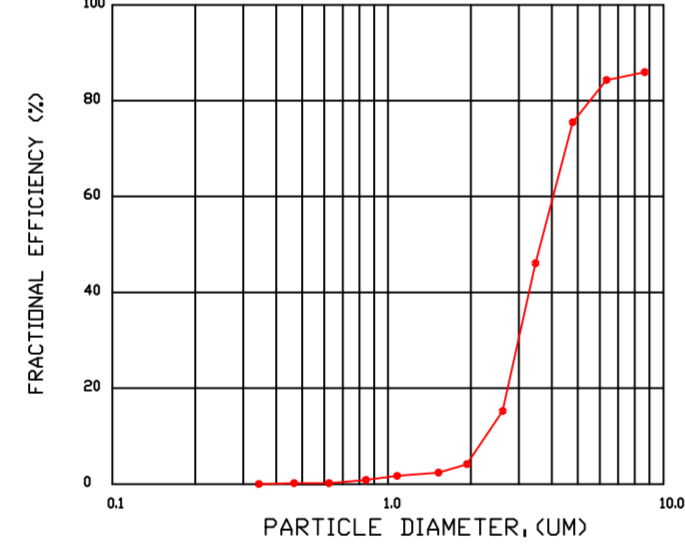
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

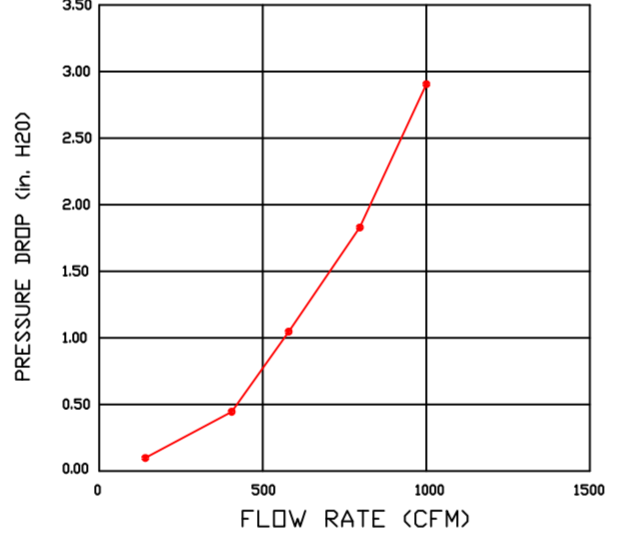
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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



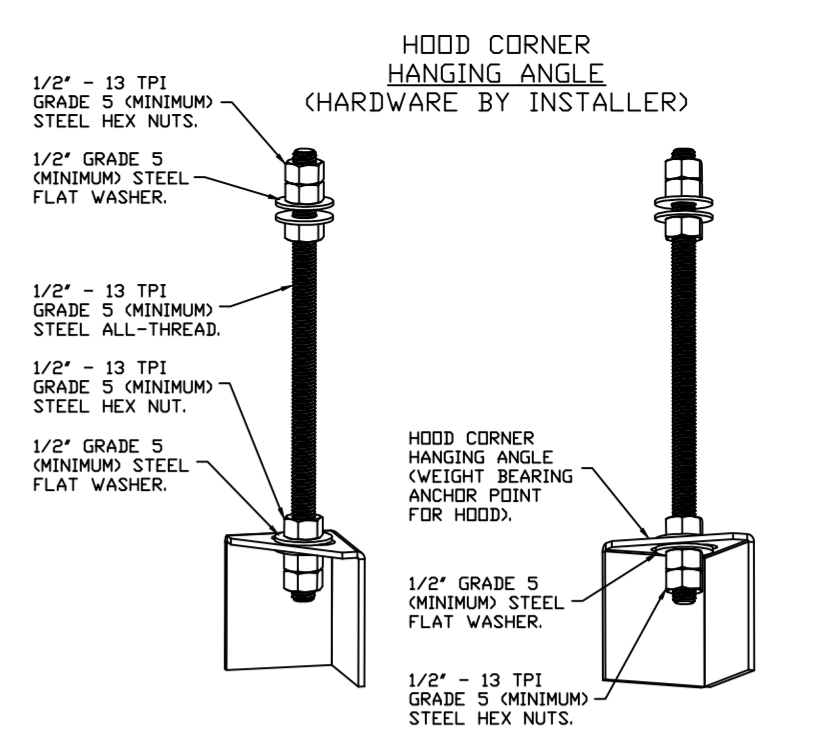
CAPTIVEAIRE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NSF A #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649.



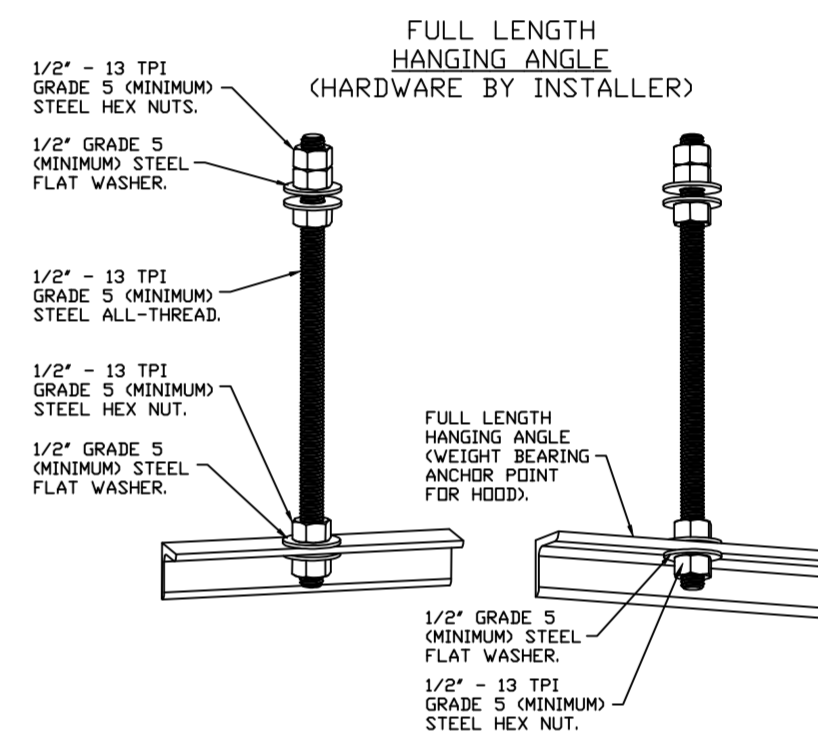
PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>

FOR QUESTIONS, CALL THE: KANSAS CITY REGIONAL OFFICE
 1126 SWIFT STREET, KANSAS CITY, MO 64116
 PHONE: (816) 221-8575
 FAX: (816) 221-8311

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 Signature: _____ Date: _____
 Your Title: _____

***** NOTE *****
 ALL WALLS AND STRUCTURES THAT COME WITHIN 18\"/>

***** NOTE *****
 HOOD MANUFACTURER RECOMMENDS NO RETURNS OR 4-WAY DIFFUSERS WITHIN 10 FEET OF HOOD IN ALL DIRECTION.

***** NOTE *****
 MAKEUP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.

REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE

HBT Foodservice

1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captivaire.com

Hawaiian Bros - Wentzville, MO
 WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#: 5474708

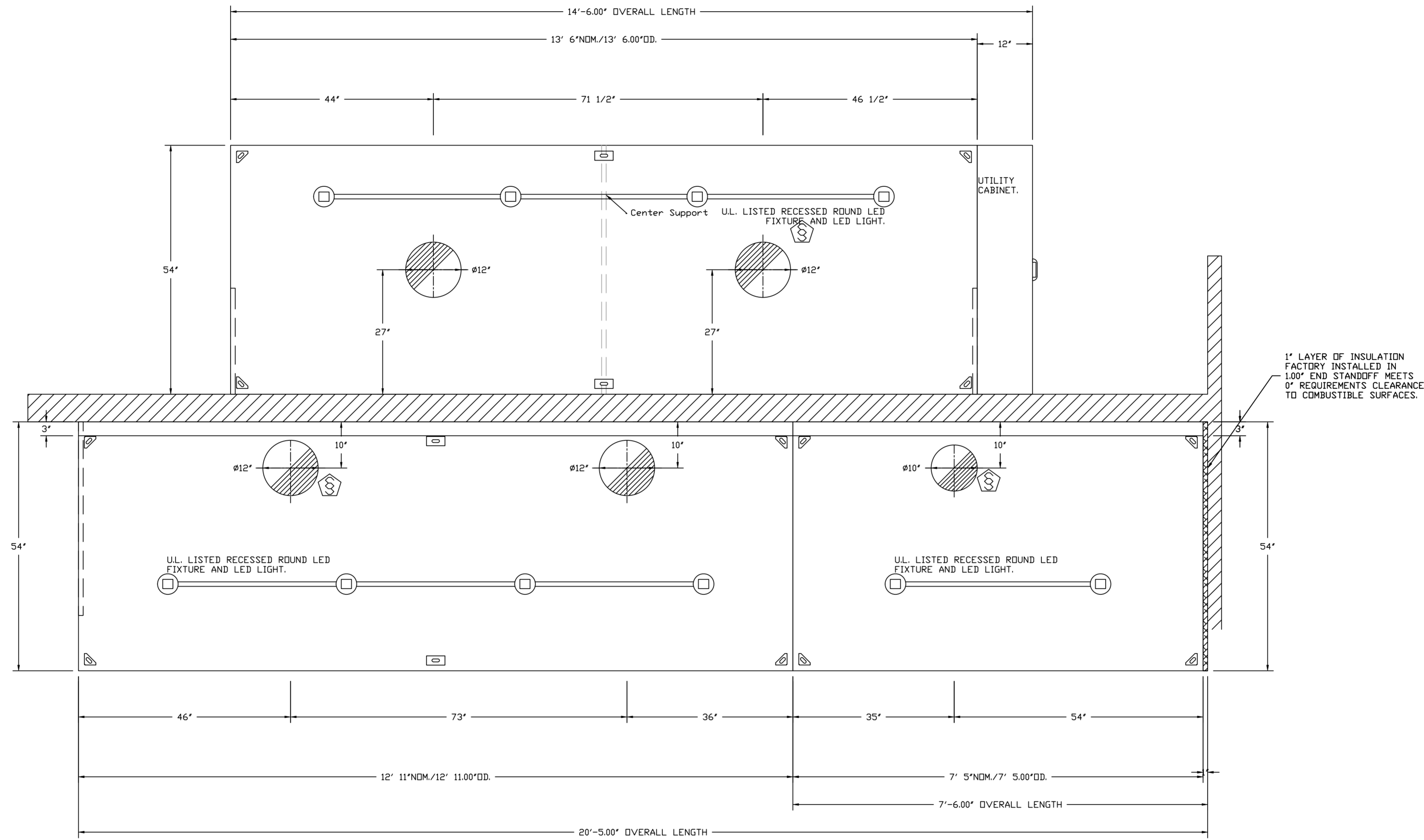
DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.
1

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.
 PLAN VIEW - HOOD #3 (Item 75)
 13' 6.00" LONG 5424VHB-ND



PLAN VIEW - HOOD #1 (Item 52)
 12' 11.00" LONG 5424ND-2
 NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.

PLAN VIEW - HOOD #2 (Item 53)
 7' 5.00" LONG 5424ND-2

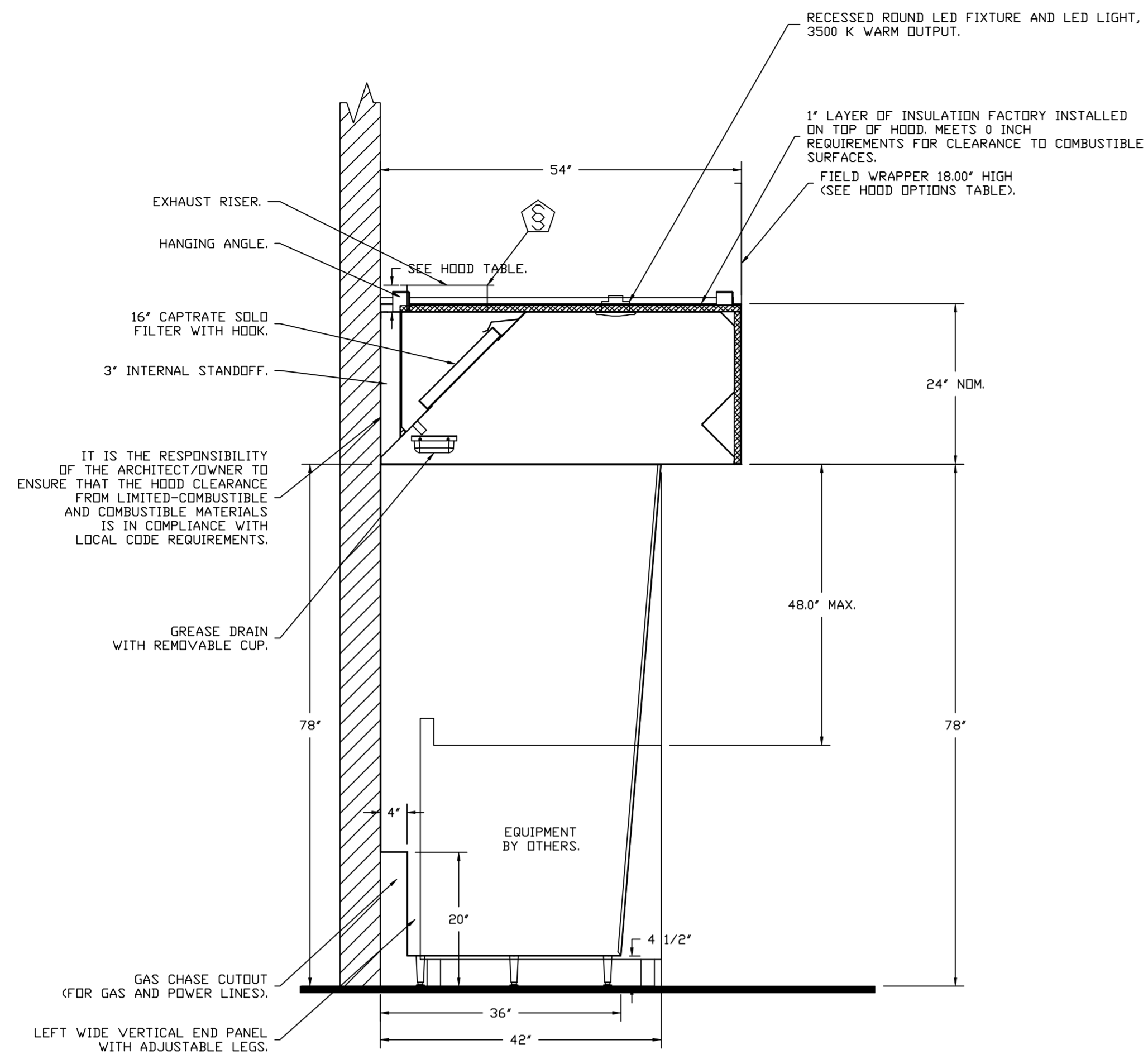
REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 HBT Foodservice
 www.captiveair.com
 1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg96@captiveair.com

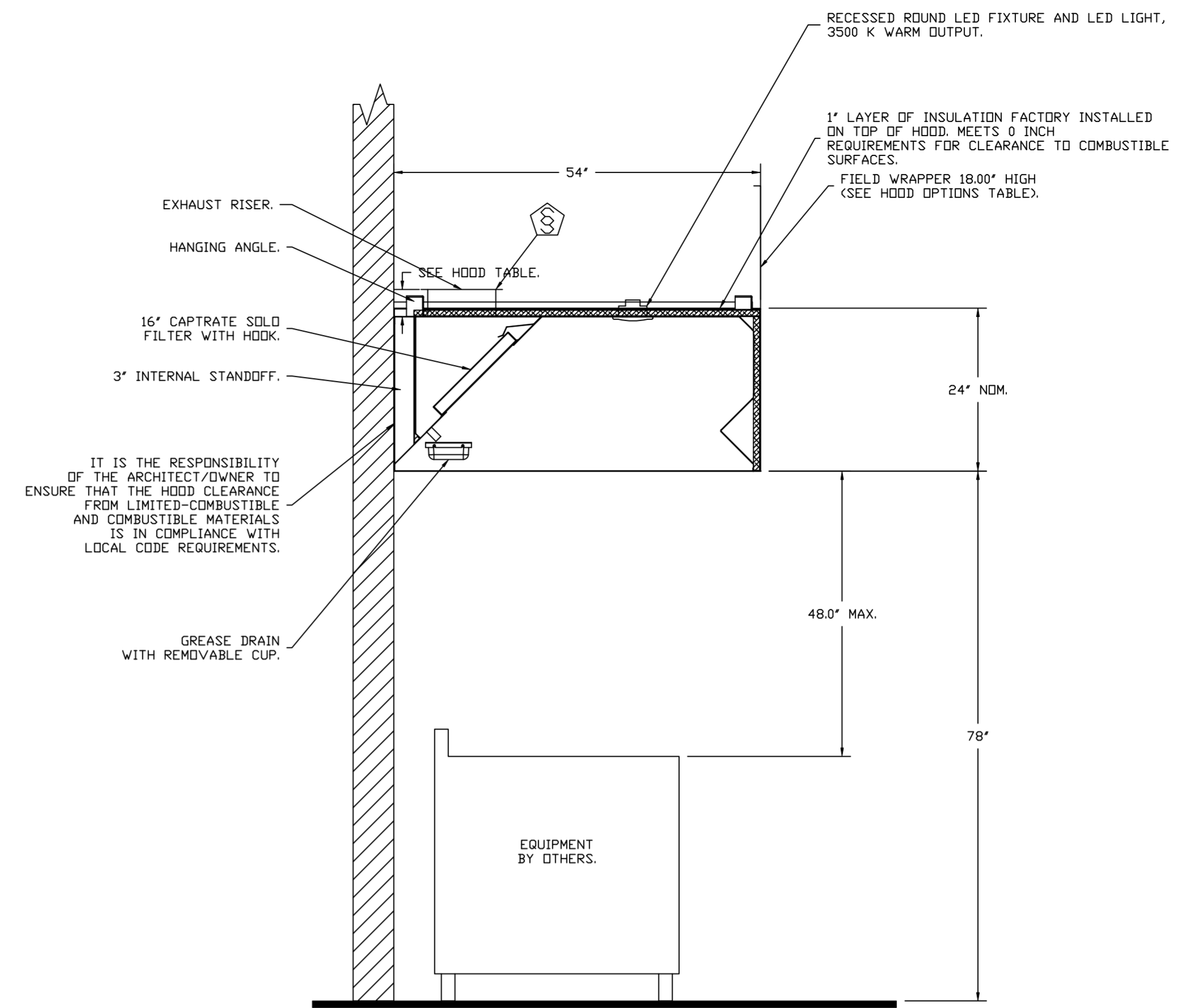
Hawaiian Bros - Wentzville, MO
 WENTZVILLE, MO, 63385

DATE: 5/17/2022
 DWG.#: 5474708
 DRAWN BY: michael.co
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

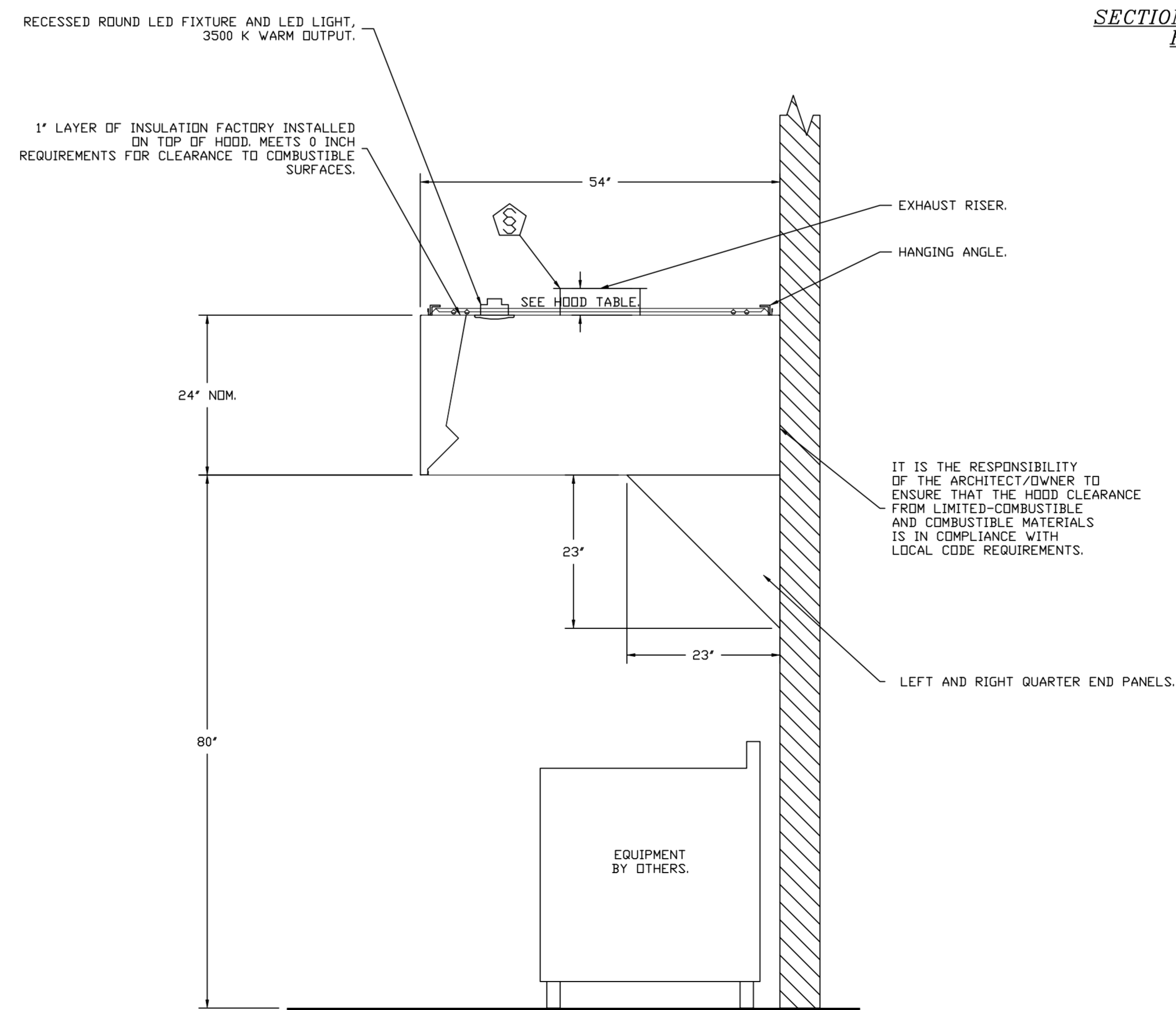
SHEET NO.
 2



SECTION VIEW - MODEL 5424ND-2
HOOD - #1 (Item 52)



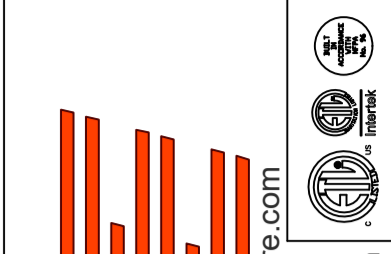
SECTION VIEW - MODEL 5424ND-2
HOOD - #2 (Item 53)



SECTION VIEW - MODEL 5424VHB-ND
HOOD - #3 (Item 75)

REVISIONS

DESCRIPTION	DATE



CAPTIVE AIR
www.captiveair.com
HBT Foodservice
1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveair.com

Hawaiian Bros - Wentzville, MO
WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#:
5474708

DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.
3

SPECIFICATIONS

TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 450°F, 700°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The VHB Series is a Premier Type II, exhaust only hood used over equipment not producing grease laden vapors. Type II hoods are used for condensation or heat removal applications.
- C. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
1. "Exhaust Hood Without Exhaust Damper."
 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost

perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

- A. Construction shall be type 430 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. Recessed round LED fixture and LED light, 3500K Warm output.

2.4 FILTERS

- A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

- A. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

- A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:
1. Quarter End Panel
 2. Wide Vertical End Panel
- B. Standoff(s) selected:
1. Right End Standoff
- C. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
1. Wrapper
 2. Wrapper Channel
- D. Miscellaneous option(s) selected:
1. Insulation for Top of Hood -Fully insulated top of hood.
 2. Riser Sensor Install -Sensor set-up for 6" plenum.

PART 3 - EXECUTION

3.1 EXAMINATION

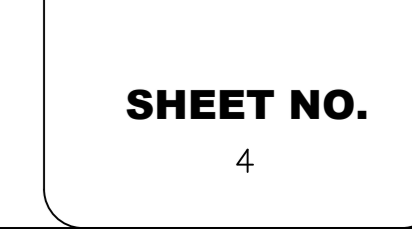
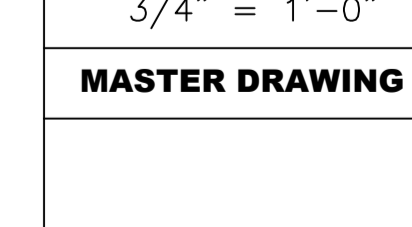
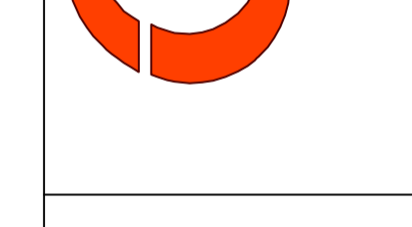
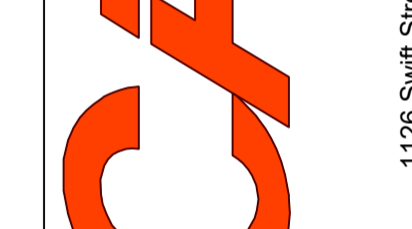
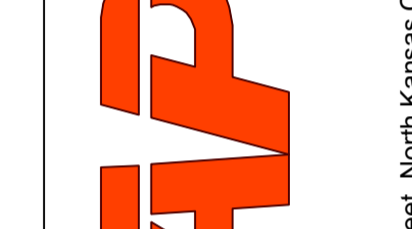
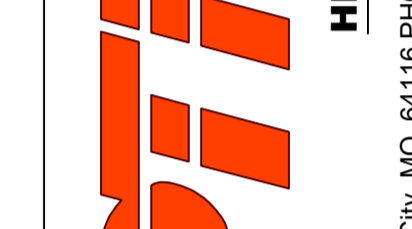
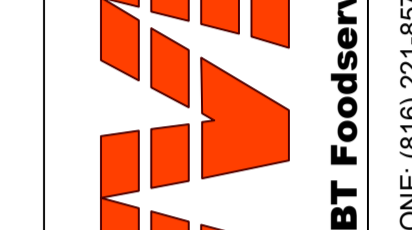
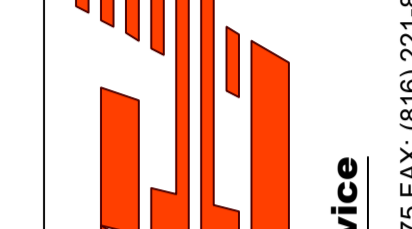
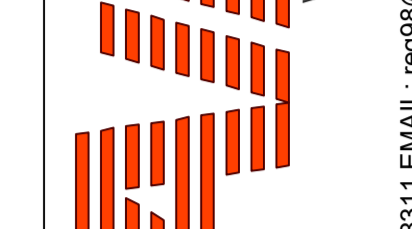
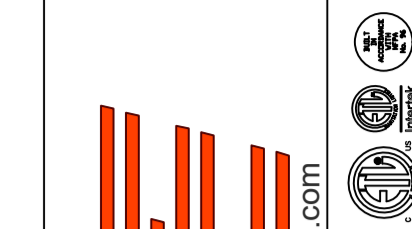
- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

REVISIONS

DESCRIPTION	DATE:
Δ	
Δ	
Δ	
Δ	



Hawaiian Bros - Wentzville, MO
WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#:
5474708

DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.

4

EXHAUST FAN INFORMATION – JOB#5474708

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	DJ240HFA	CAPTIVEAIRE	4025	2.000	1003	ODP,PREMIUM	5.000	2.7540	3	208	15.8	915 FPM	313	21
2	KEF-2	1	DU85HFA	CAPTIVEAIRE	2025	1.000	1448	TEAD-ECM	1.000	0.5400	1	208	6.9	641 FPM	98	15.2
3	CD2 EXHAUST	1	DR12HFA	CAPTIVEAIRE	200	0.380	1070	TEAD-ECM	0.250	0.0530	1	115	2.9		61	4.7
4	BATHROOM EXHAUST	1	DR12HFA	CAPTIVEAIRE	225	0.500	1223	TEAD-ECM	0.250	0.0800	1	115	2.9		61	6.4

DOAS/RTU FAN SCHEDULE – JOB#5474708

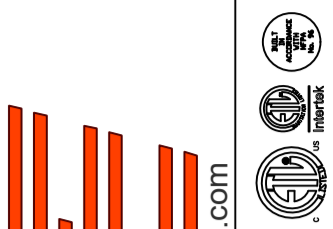
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ELECTRICAL INFORMATION						COOLING INFORMATION						REHEAT INFORMATION				GAS HEAT INFORMATION				NOTES						
										ESP	HP	Ø	VOLT	MCA	MDCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY			MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	
																DB	WB	DB	WB	DB	WB	DP	TOTAL			SENS.	DB	WB	DESIRED							MAX
5	RTU-1 (DINING)	1	CASRTU2-I.200-18-10T-DOAS	CAPTIVEAIRE	18P-2	1800	1000	2800	1966	0.500	5.00	3	208	67.8A	80A	95.5°F	79.8°F	82.4°F	69.3°F	53.1°F	53.1°F	53.2°F	136.0 MBH	86.1 MBH	18.6	4.3	70.0°F	59.7°F	52.3 MBH	96 MBH	45.7 LBS/HR	NATURAL	189484	151587	45°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18
6	RTU-2 (KITCHEN)	1	CASRTU3-I.400-18-20T-DOAS	CAPTIVEAIRE	18P-3	0	3200	3200	2614	0.500	3.00	3	208	80.6A	90A	95.5°F	79.8°F	95.5°F	79.8°F	59.2°F	55.8°F	53.6°F	264.0 MBH	120.2 MBH	18.2	6.0	70.0°F	61.7°F	37.8 MBH	129.6 MBH	129.7 LBS/HR	NATURAL	351449	281159	73°F	1,2,3,4,5,6,7,8,9,10,11,12,13,15,18
7	RTU-3 (WARE)	1	CASRTU3-I.250-15-15T-DOAS	CAPTIVEAIRE	15P-3	600	2200	2800	2515	0.500	2.00	3	208	59.8A	60A	95.5°F	79.8°F	91.2°F	76.6°F	59.6°F	56.9°F	55.2°F	186.0 MBH	91.9 MBH	18.8	5.7	70.0°F	61.0°F	31.8 MBH	129.6 MBH	85.2 LBS/HR	NATURAL	226539	181231	53°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

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. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
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. 80% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. 15 DEGREE LOW AMBIENT OPERATION
15. HAIL GUARD FOR CONDENSING COIL
16. RTU ECONMIZER WITH DIFFERENTIAL ENTHALPY CONTROL
17. BAROMETRIC RELIEF DAMPER
18. DOWN DISCHARGE/DOWN RETURN

REVISIONS

DESCRIPTION	DATE



Hawaiian Bros - Wentzville, MO
 WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#:
5474708

DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.
5

www.captiveaire.com
 1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveaire.com
HBT Foodservice

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX	7	RTU-3 (WARE)	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	EXHAUST FAN HEAT BAFFLE			1	RTU3 DOWN DISCHARGE
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS			1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2 YEAR PARTS WARRANTY			1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	GREASE BOX			1	OVERHEAT STAT
2	KEF-2	1	EXHAUST FAN HEAT BAFFLE			1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS			1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION			1	20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	2 YEAR PARTS WARRANTY			1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION			1	RTU3 CURB DUCT HANGER
3	CD2 EXHAUST	1	MOTORIZED I 12 BDD 120/240V			1	RTU3 DOWN RETURN
		1	2 YEAR PARTS WARRANTY			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION			1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	MOTORIZED I 12 BDD 120/240V			1	OCCUPIED SCHEDULING
		1	2 YEAR PARTS WARRANTY			1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
4	BATHROOM EXHAUST	1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION			1	RTU3 HAIL GUARD
		1	MOTORIZED I 12 BDD 120/240V			1	FREEZESTAT
		1	2 YEAR PARTS WARRANTY			1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (S71 VFD INCLUDED)
		1	INLET PRESSURE GAUGE, 0-35"			1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIR SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE			1	INLET PRESSURE GAUGE, 0-35"
5	RTU-1 (DINING)	1	RTU TOTAL CFM MONITORING			1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	SHIP LOOSE GAS STRAINER 3/4"			1	RTU TOTAL CFM MONITORING
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 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	SHIP LOOSE GAS STRAINER 3/4"
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED			1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 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 15F AMBIENT			1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU2 DOWN DISCHARGE	1	LOW AMBIENT COOLING OPERATION - DOWN TO 15F AMBIENT		
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)	1	RTU3 DOWN DISCHARGE		
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)	1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)		
		1	OVERHEAT STAT	1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)		
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE	1	OVERHEAT STAT		
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR	1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE		
		1	10 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS	1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR		
		1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL	1	RTU3 CURB DUCT HANGER		
		1	RTU2 CURB DUCT HANGER	1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED		
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED	1	OCCUPIED SCHEDULING		
		1	OCCUPIED SCHEDULING	1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI		
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI	1	RTU ECONMIZER - DIFFERENTIAL ENTHALPY CONTROL		
		1	RTU ECONMIZER - DIFFERENTIAL ENTHALPY CONTROL	1	RTU2 ECONMIZER BAROMETRIC RELIEF		
		1	RTU2 ECONMIZER BAROMETRIC RELIEF	1	RTU2 HAIL GUARD		
		1	RTU2 HAIL GUARD	1	RTU2 DOWN RETURN		
1	RTU2 DOWN RETURN	1	FREEZESTAT				
1	FREEZESTAT	1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)				
1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)	1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI				
1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIR SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)				
6	RTU-2 (KITCHEN)	1	INLET PRESSURE GAUGE, 0-35"	1	INLET PRESSURE GAUGE, 0-35"		
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE	1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE		
		1	RTU TOTAL CFM MONITORING	1	RTU TOTAL CFM MONITORING		
		1	SHIP LOOSE GAS STRAINER 3/4"	1	SHIP LOOSE GAS STRAINER 3/4"		
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 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	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 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		

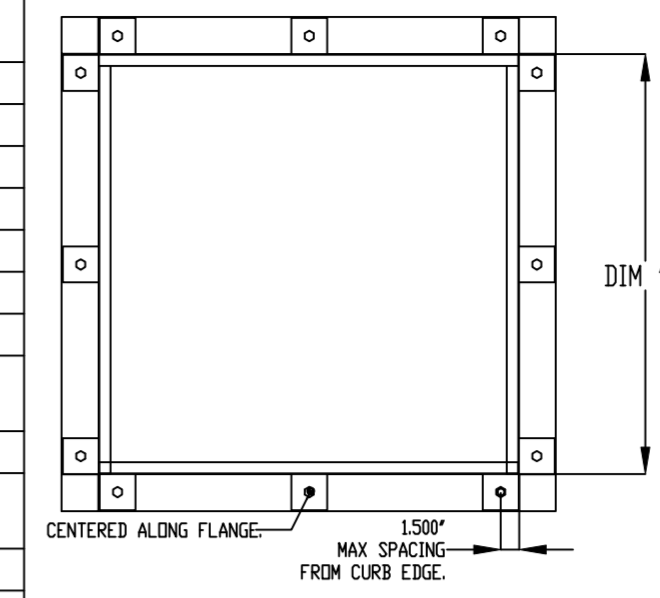
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KEF-2	YES						
3	CD2 EXHAUST							
4	BATHROOM EXHAUST							

CURB ASSEMBLIES

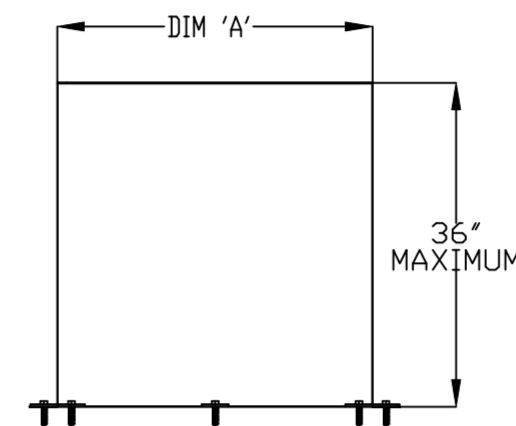
NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	KEF-2	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	CD2 EXHAUST	73 LBS	CURB	17.500"W X 17.500"L X 18.000"H ALONG LENGTH, RIGHT INSULATED 16 GAUGE.
4	# 4	BATHROOM EXHAUST	73 LBS	CURB	17.500"W X 17.500"L X 18.000"H ALONG LENGTH, RIGHT INSULATED 16 GAUGE.
5	# 5	RTU-1 (DINING)	103 LBS	CURB	49.500"W X 75.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED 16 GAUGE.
6	# 6	RTU-2 (KITCHEN)	232 LBS	CURB	59.500"W X 91.000"L X 18.000"H ALONG WIDTH, RIGHT INSULATED 16 GAUGE.
7	# 7	RTU-3 (WARE)	232 LBS	CURB	59.500"W X 91.000"L X 18.000"H ALONG WIDTH, RIGHT INSULATED 16 GAUGE.

SEISMIC EXHAUST CURB

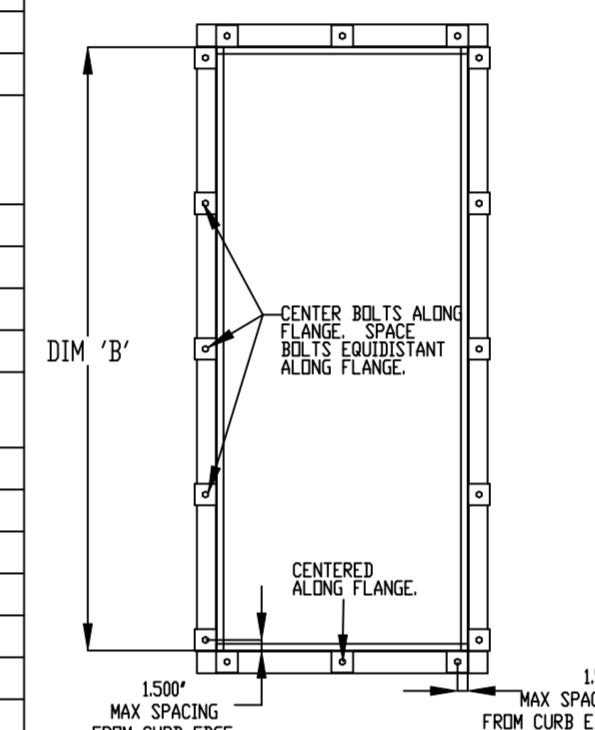


- CURBS ARE BUILT IN THE FOLLOWING WAY:
- METAL IS .060" ALUMINIZED SHEET
 - METAL
 - ALL SEAMS ARE WELDED WITH MIG USING ER70S-6 WIRE
 - TOP FLANGE IS 1.00" WIDE
 - BOTTOM FLANGE IS 3.00" WIDE
 - WIDTHS AND LENGTHS VARY BY PRODUCT INSTALLED
 - MAX CURB PITCH IS 5" ON 12"

CURB DIMENSIONS		
UNIT TYPE	DIM 'A'	DIM 'B'
EXHAUST	19.5-42.5'	19.5-42.5'



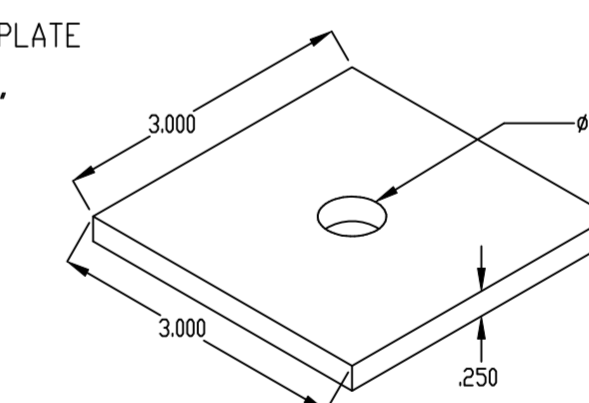
SEISMIC SUPPLY CURB



SEISMIC HARDWARE

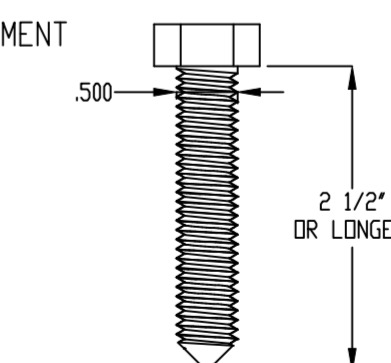
ROOFTOP CURB ATTACHMENT PLATE

STEEL SUPPORT BLOCK, 3" X 3" BY 250" THICK STEEL PLATE AND GALVANIZED FOR WEATHER RESISTANCE.



LAG BOLT FOR ROOFTOP CURB ATTACHMENT

STEEL LAG BOLT, .500" DIAMETER, 1 1/2" OF BOLT MUST BE INSTALLED INTO THE WOODEN SUPPORT STRUCTURE.



REVISIONS

DESCRIPTION	DATE

CAPTIVE

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HBT Foodservice

1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg98@captiveair.com

Hawaiian Bros - Wentzville, MO
WENTZVILLE, MO, 63385

DATE: 5/17/2022

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5474708

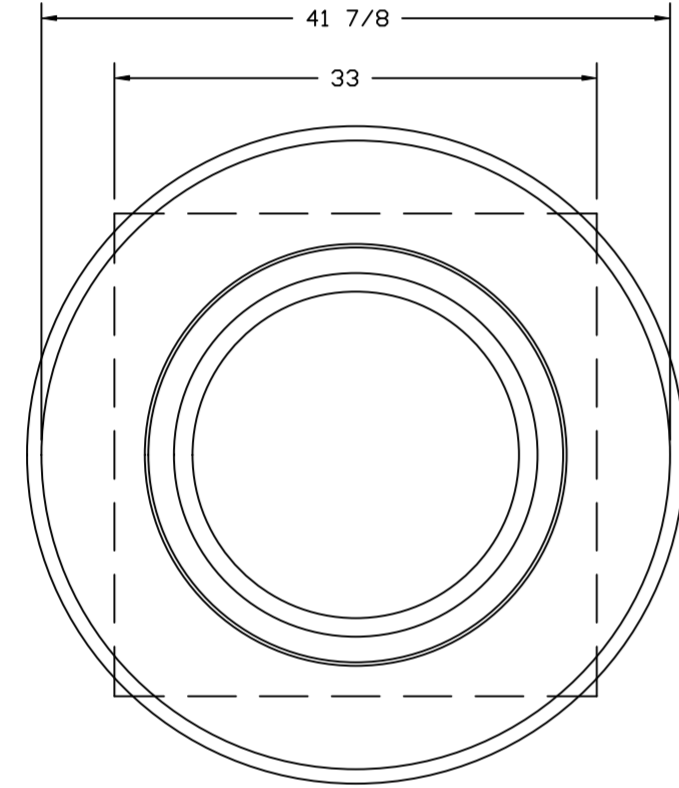
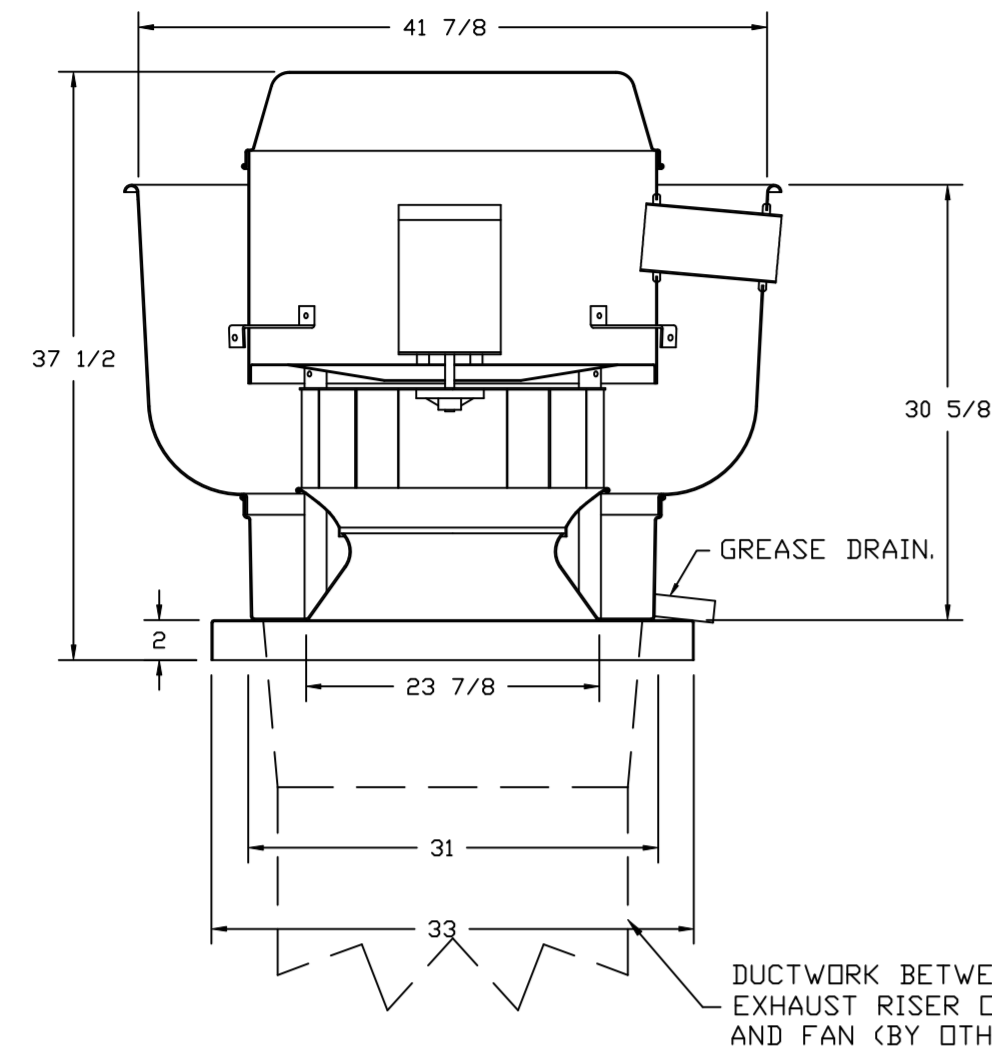
DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.
6

FAN #1_DU240HFA - EXHAUST FAN (KEF-1)



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.

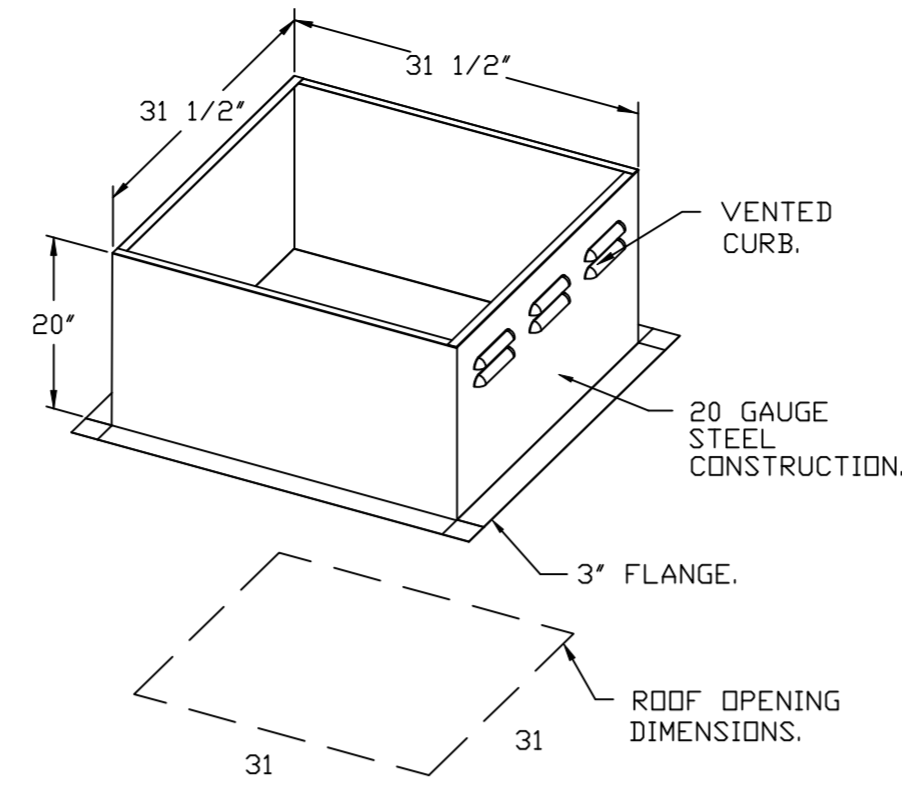
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

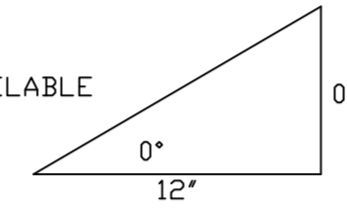
- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.

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

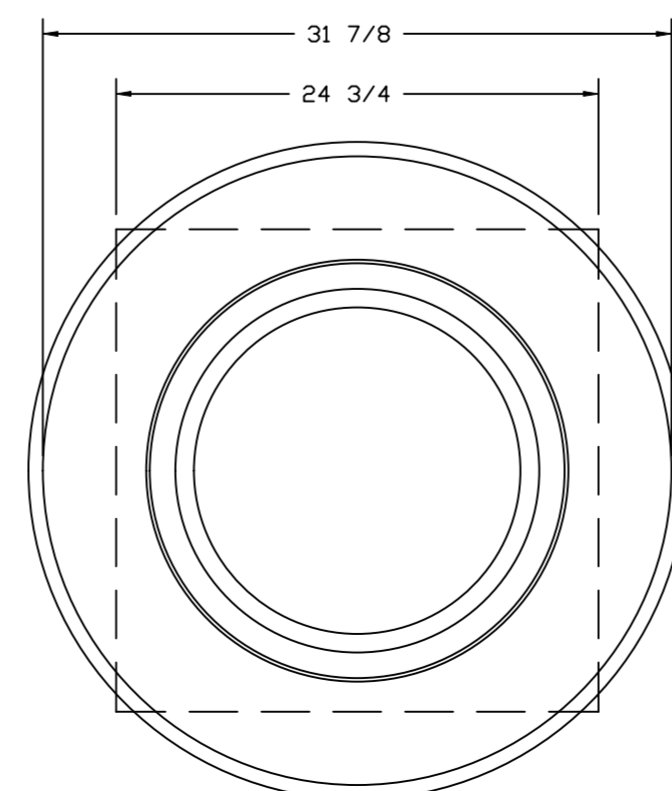
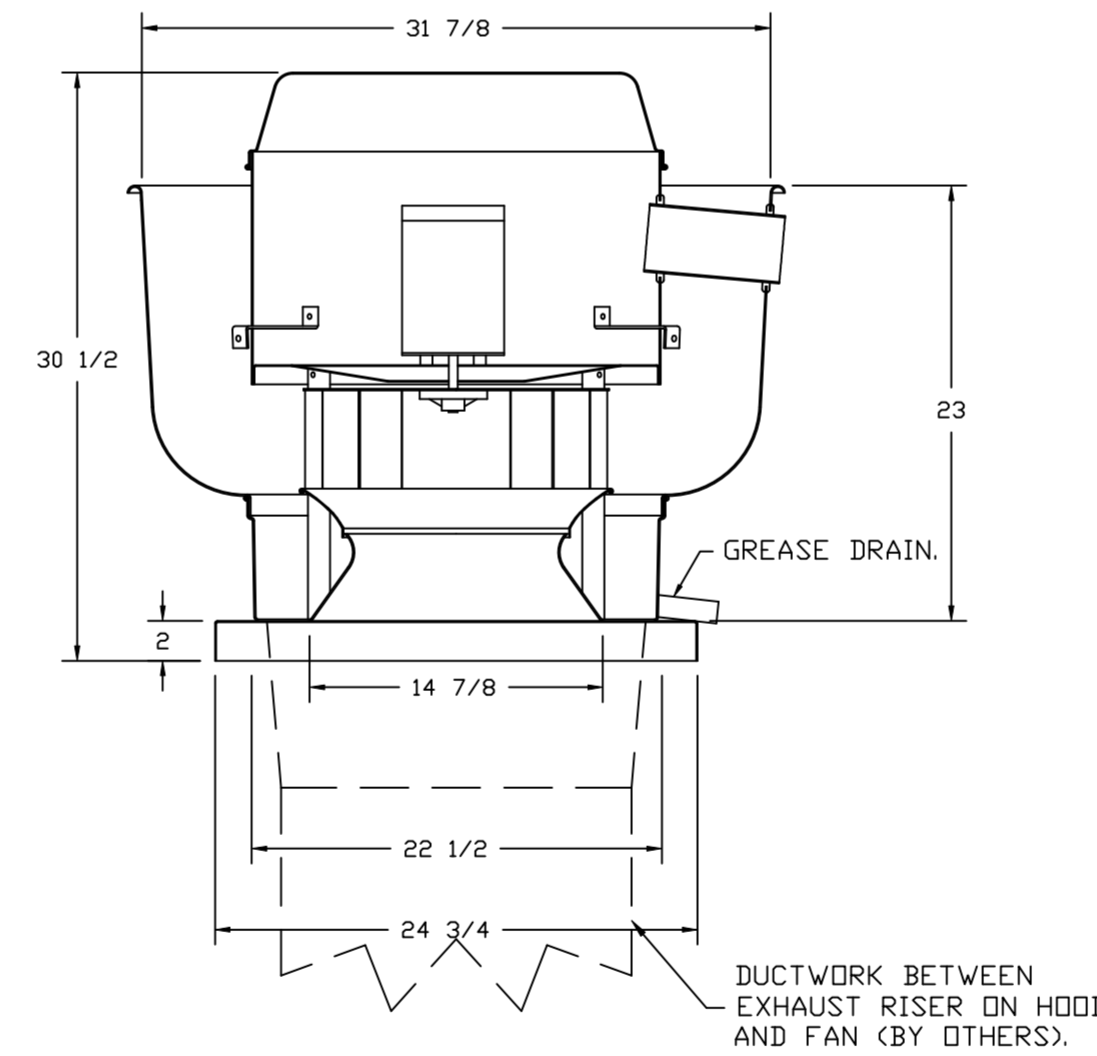


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



FAN #2_DUB5HFA - EXHAUST FAN (KEF-2)



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.

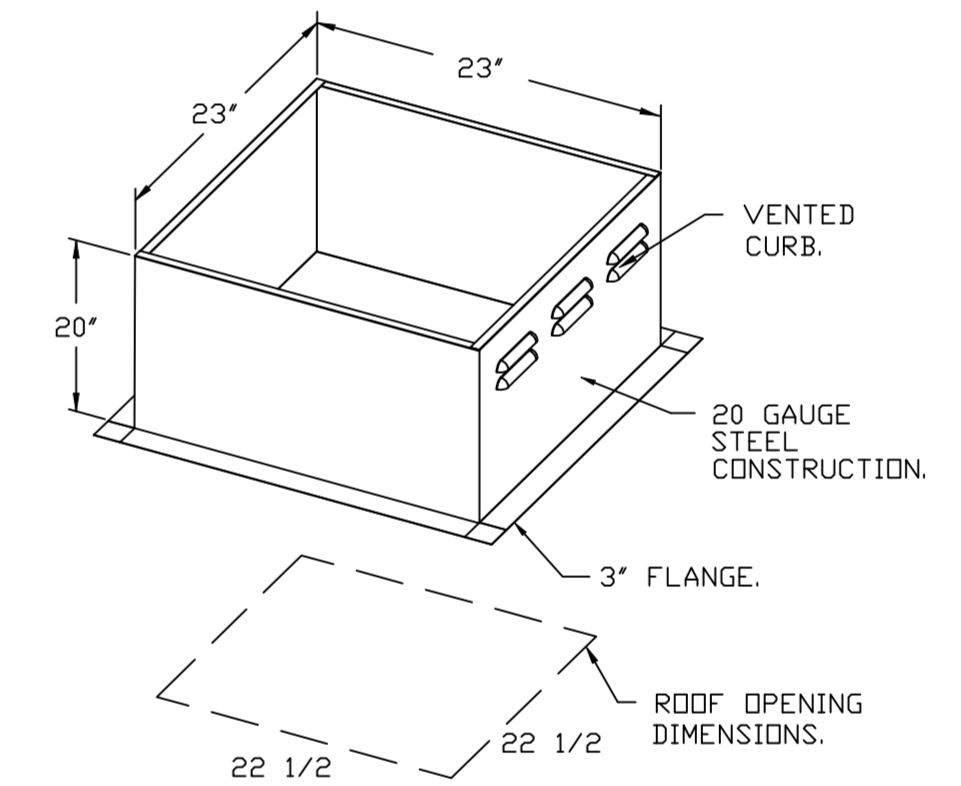
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

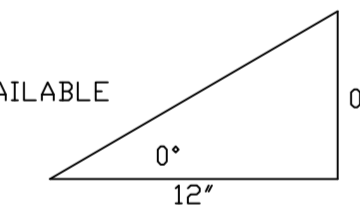
- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

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



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



REVISIONS	
DESCRIPTION	DATE

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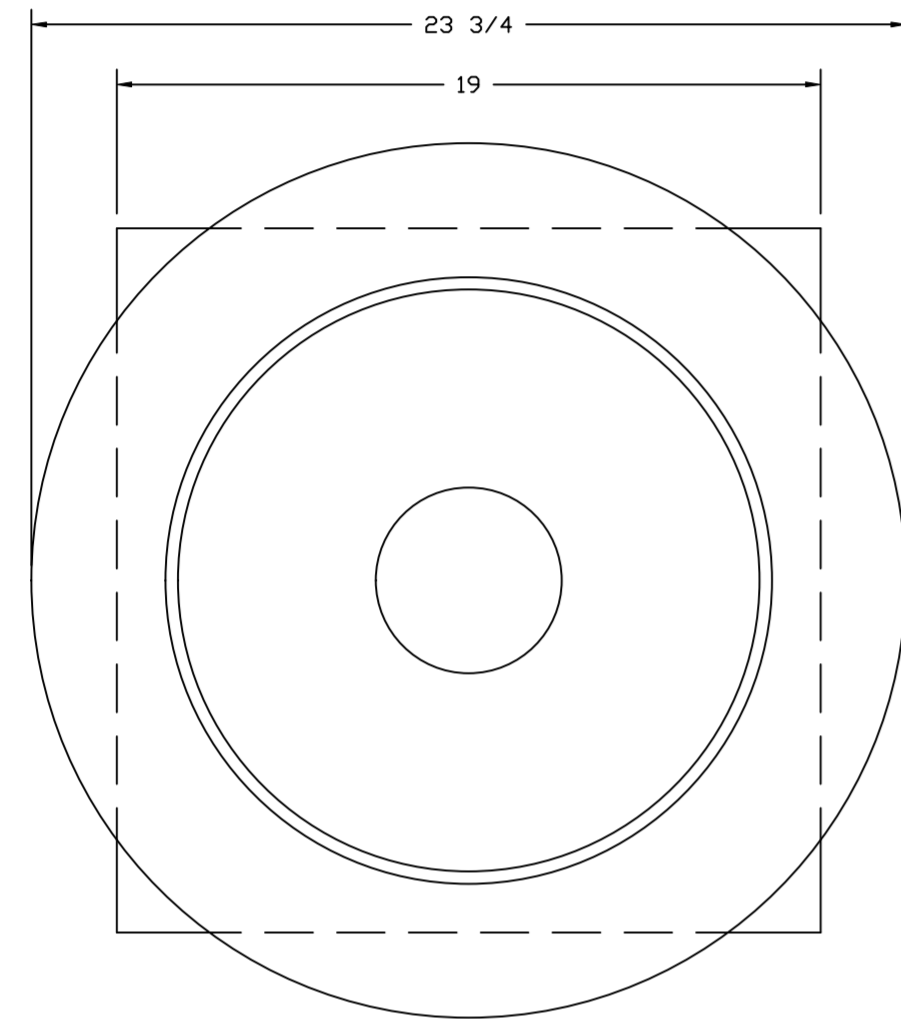
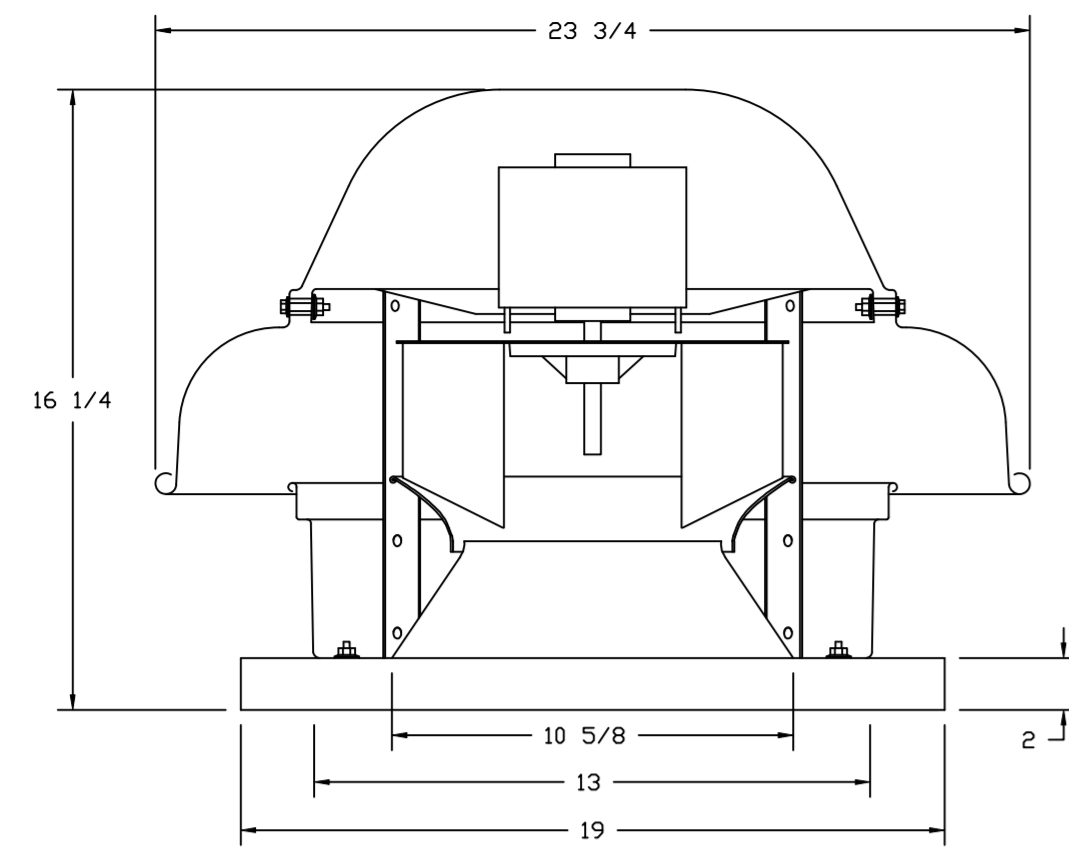
HBT Foodservice
1126 Swift Street, North Kansas City, MO, 64116 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg9@captivewire.com

Hawaiian Bros - Wentzville, MO
WENTZVILLE, MO, 63385

DATE: 5/17/2022
DWG.#: 5474708
DRAWN BY: michael.co
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
7

FANS #3 (COP EXHAUST), #4 (BATHROOM EXHAUST) - DR12HFA EXHAUST FAN



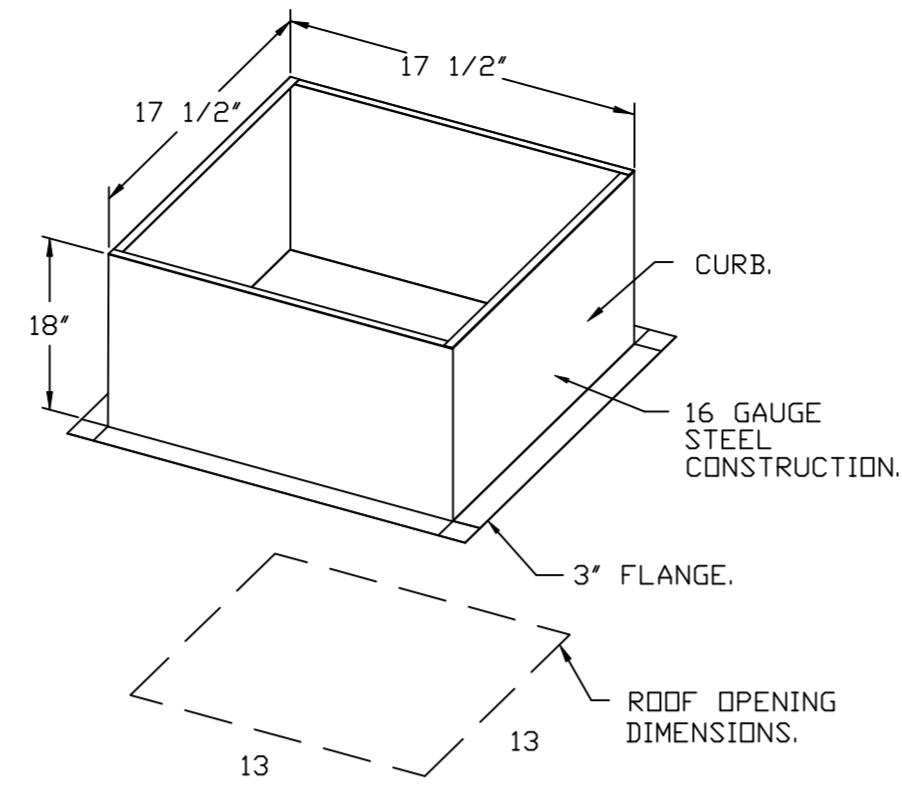
TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

OPTIONS

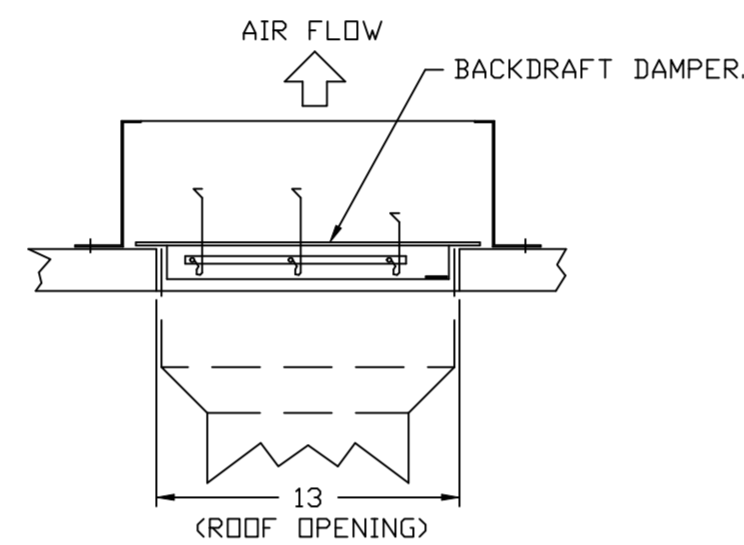
ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION. MOTORIZED I 12 BDD 120/240V. 2 YEAR PARTS WARRANTY.



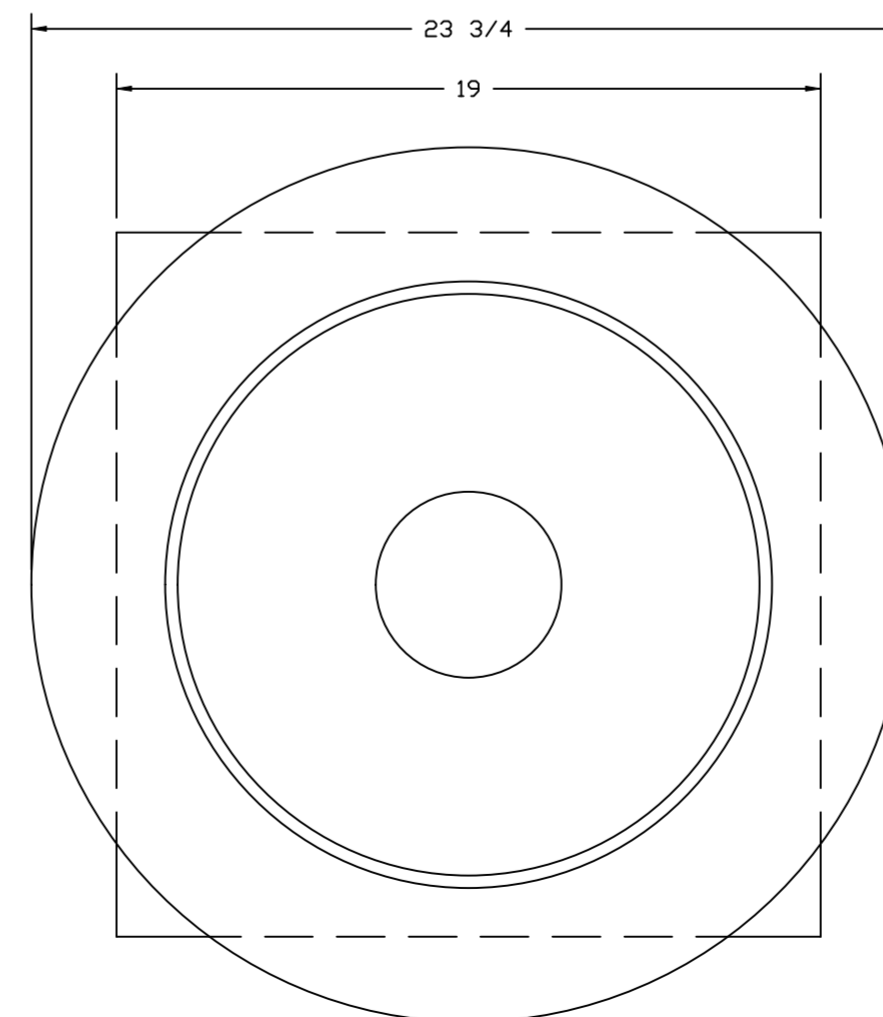
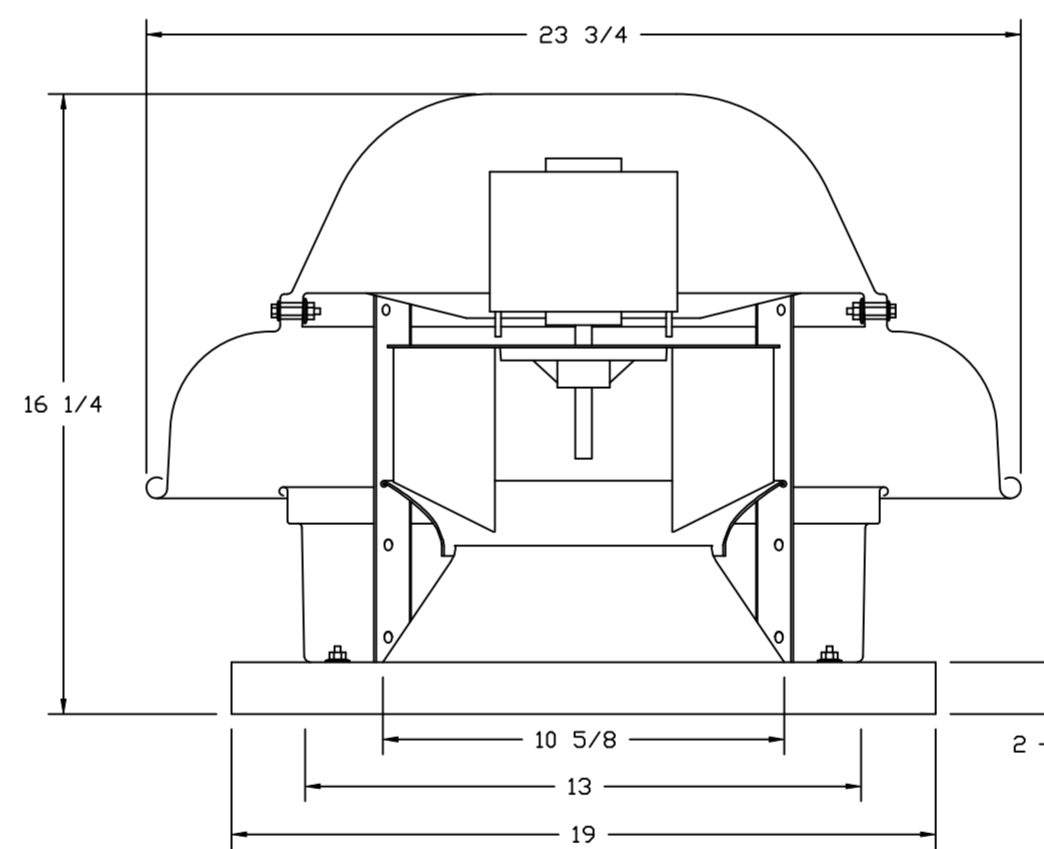
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

BACKDRAFT DAMPER INSTALLATION



FANS #3 (COP EXHAUST), #4 (BATHROOM EXHAUST) - DR12HFA EXHAUST FAN



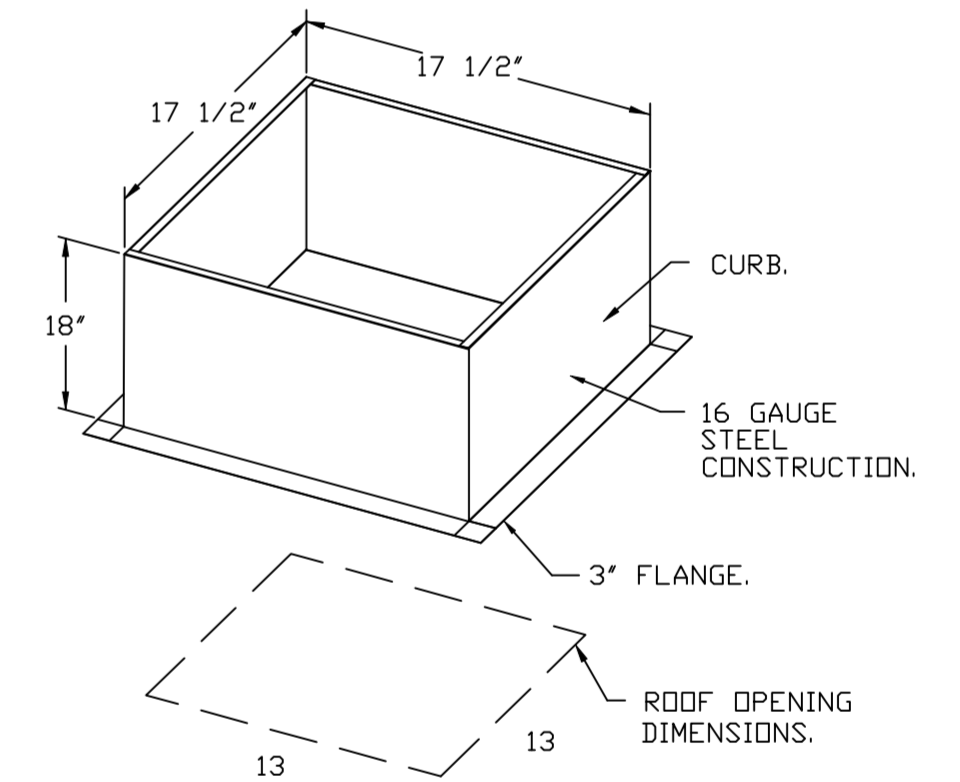
TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

OPTIONS

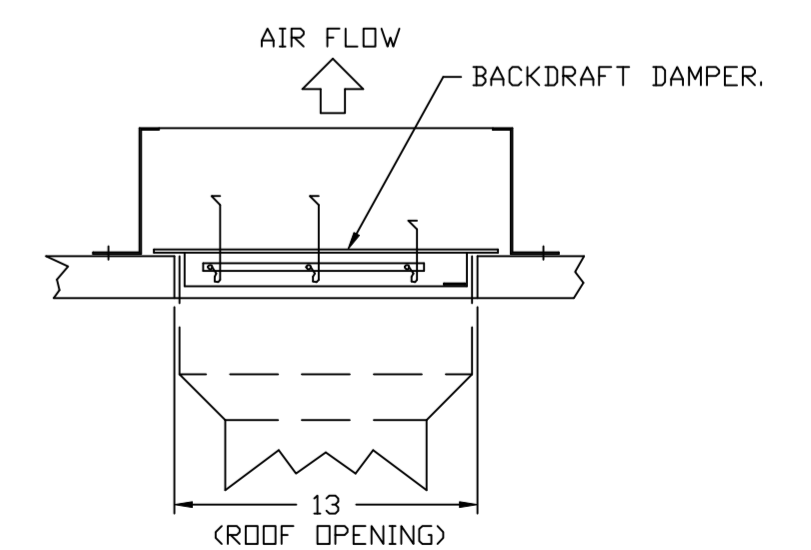
ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION. MOTORIZED I 12 BDD 120/240V. 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

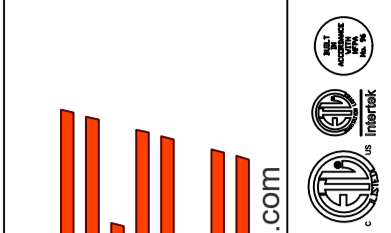
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

BACKDRAFT DAMPER INSTALLATION



REVISIONS

DESCRIPTION	DATE



CAPTIVE AIR
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Hawaiian Bros - Wentzville, MO
WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#:
5474708

DRAWN BY: michael.co

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

MASTER DRAWING

SHEET NO.
8



AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
 PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC).
 THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS.
 NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION.
 MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS.
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS - 5" THRU 24".
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS - 26" THRU 36".
 QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS.
 DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED.
 DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL "R" VALUE REQUIREMENTS.

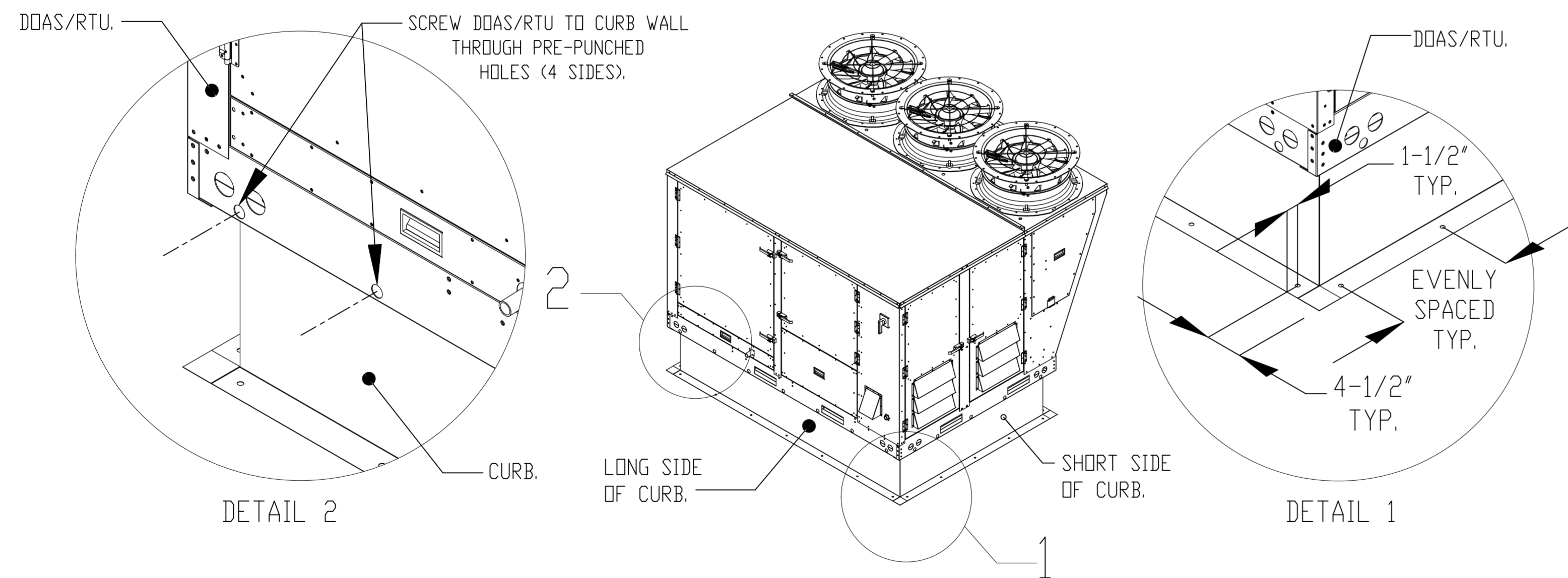
Insulation R-Value Recommendations

Supply Duct Type	Minimum R-value	Space Type
Single Wall - S & -HC	N/A	Conditioned Space Only
Double Wall - 1S	R-4	Unconditioned Interior Space Only
Double Wall - 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall - 3S	R-12	Unconditioned Space Climate Zones 5-8

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.
 AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES.
 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

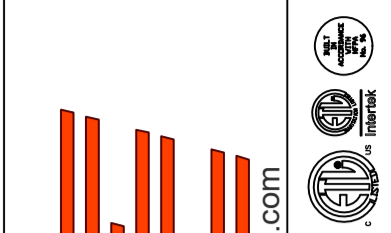
TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



REVISIONS

DESCRIPTION	DATE



HBT Foodservice

Hawaiian Bros - Wentzville, MO
 WENTZVILLE, MO, 63385

DATE: 5/17/2022

DWG.#:
5474708

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

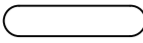
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9

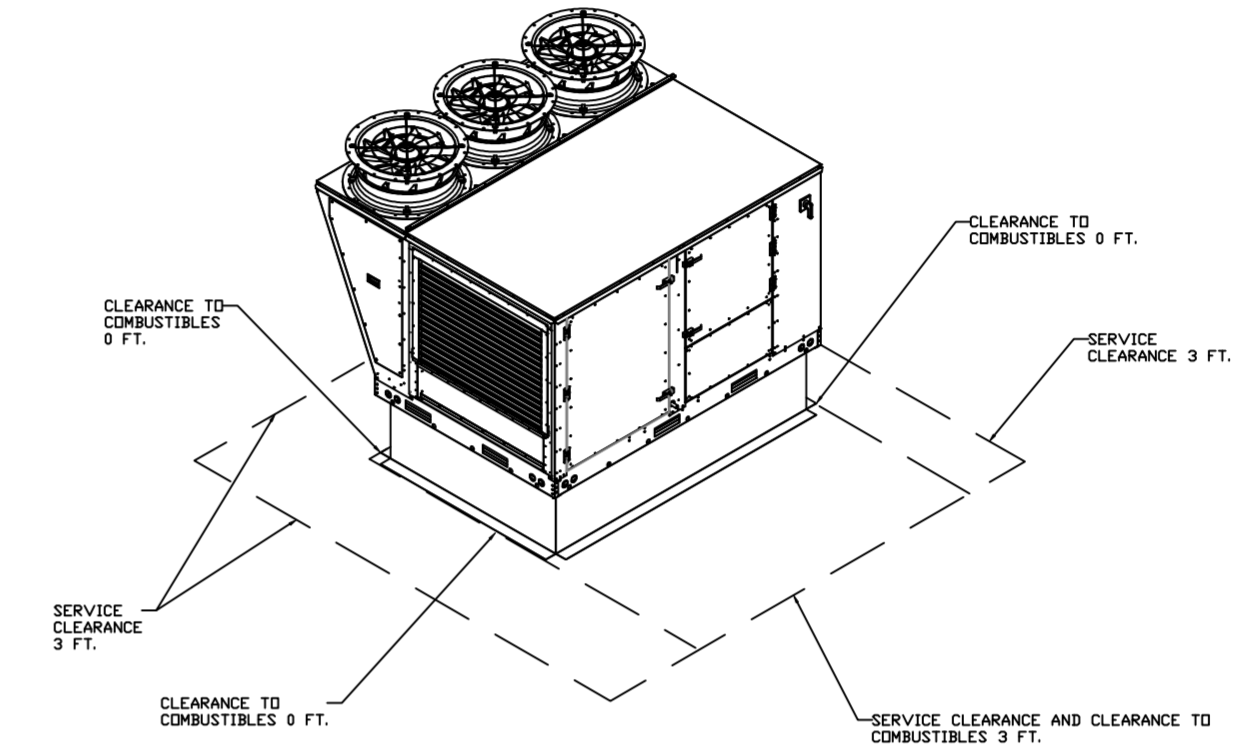
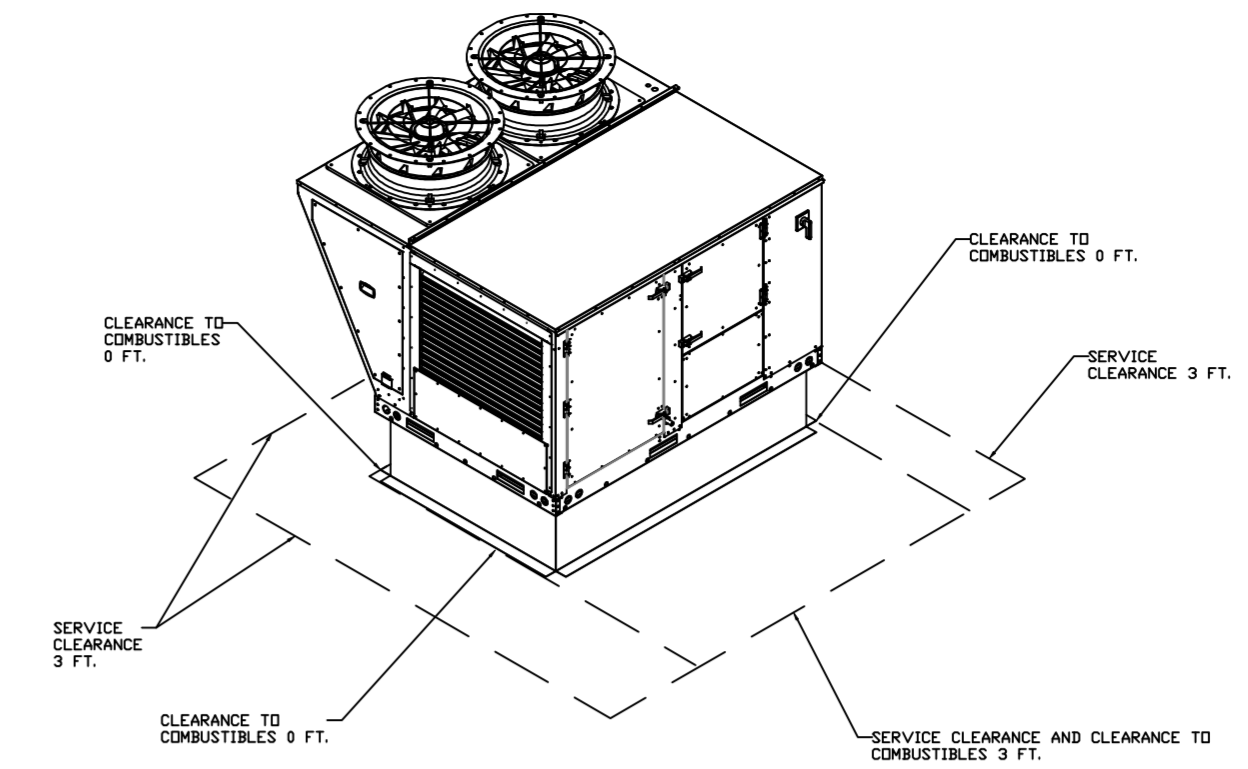
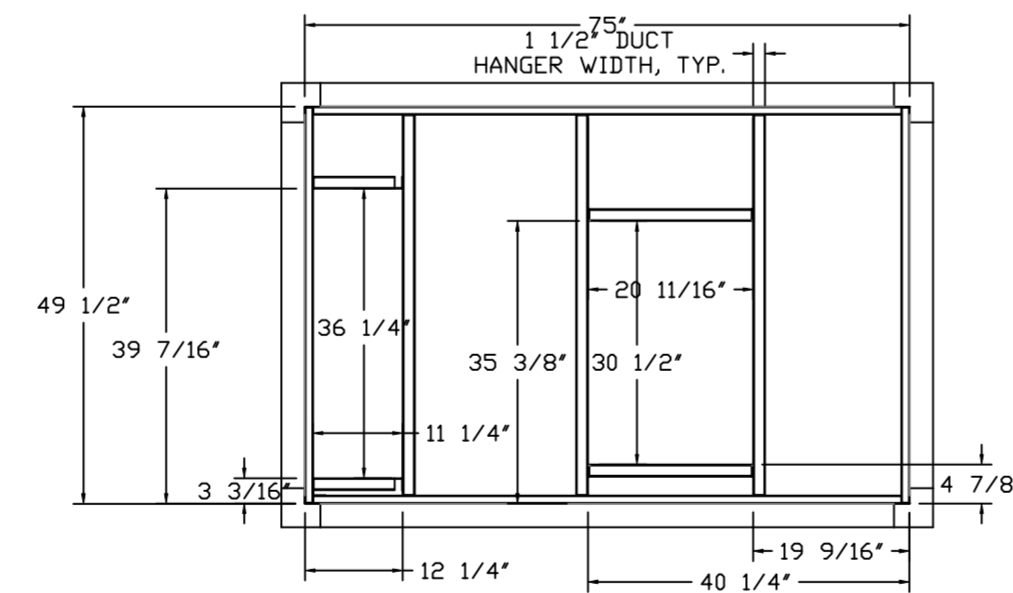
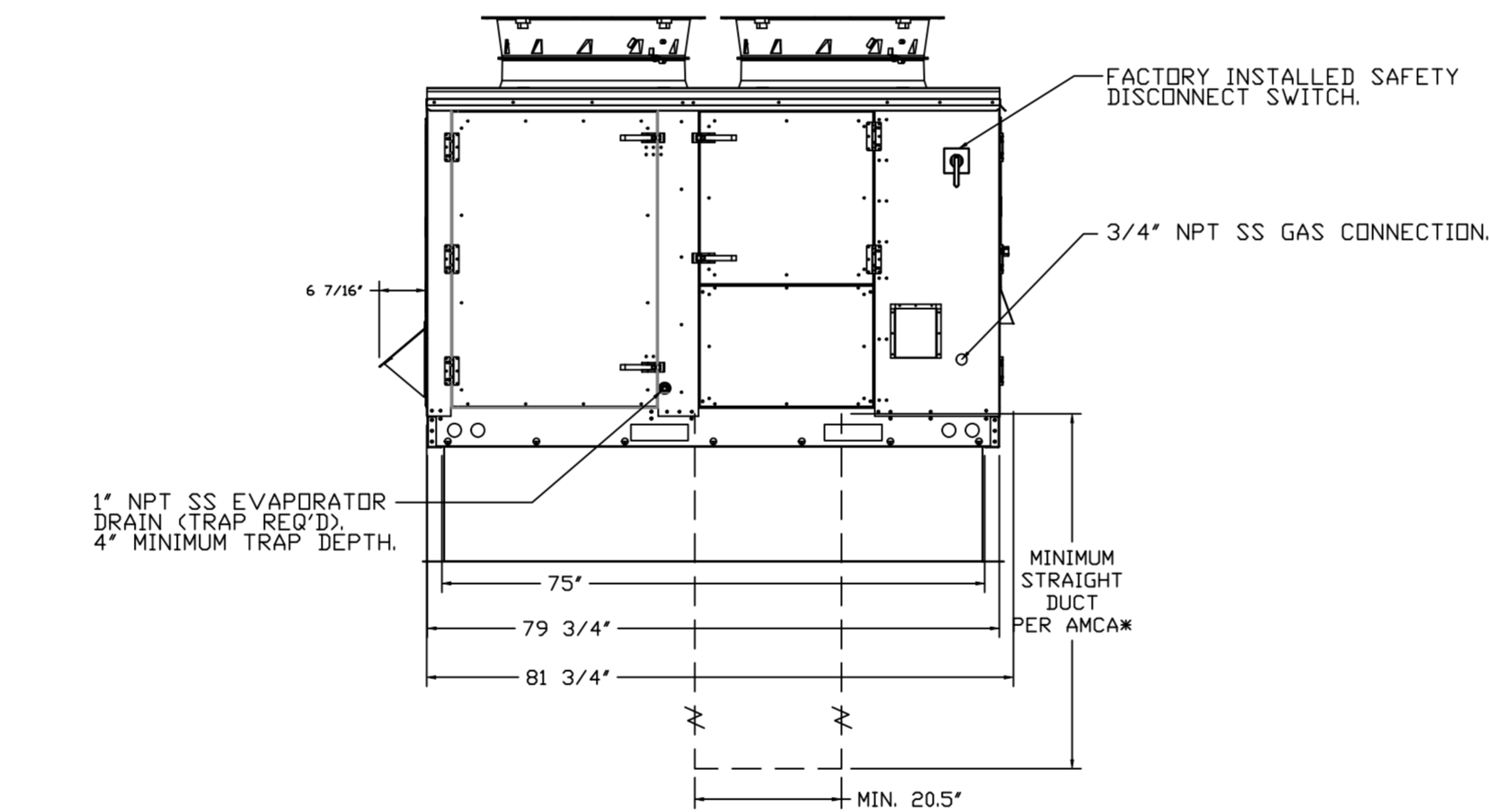
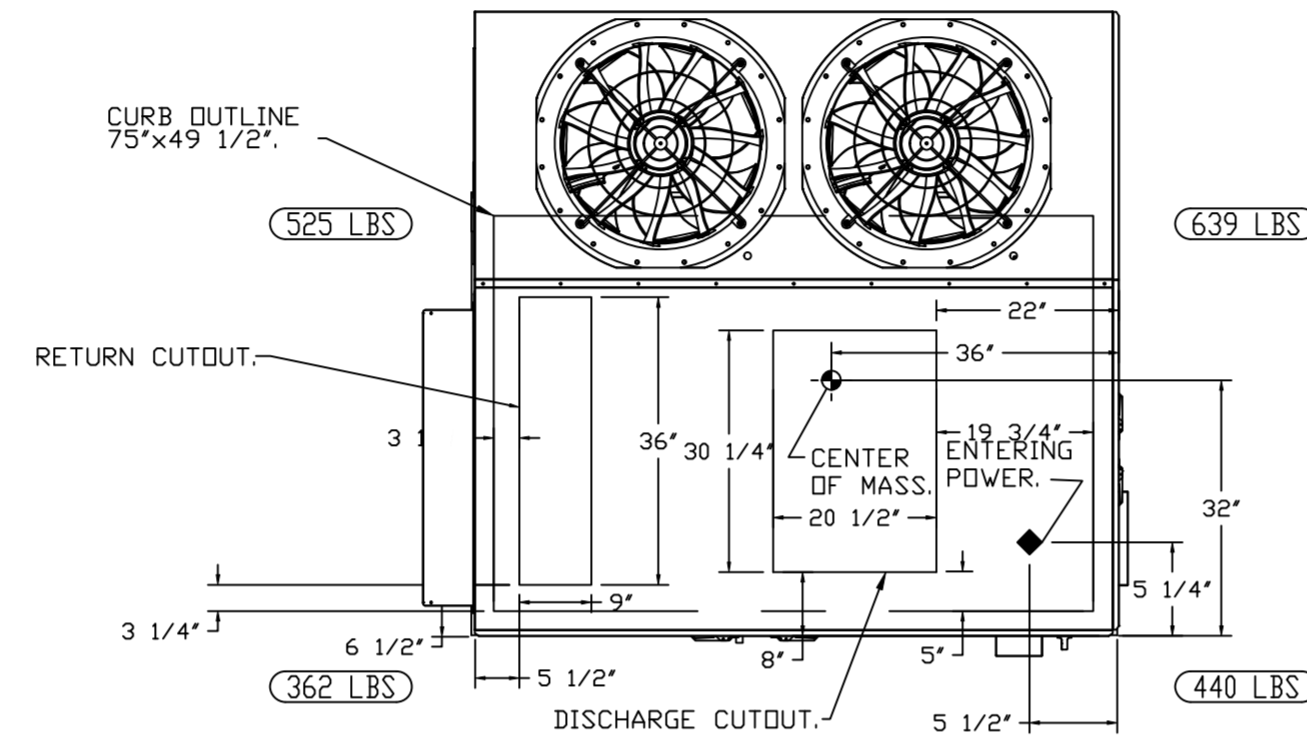
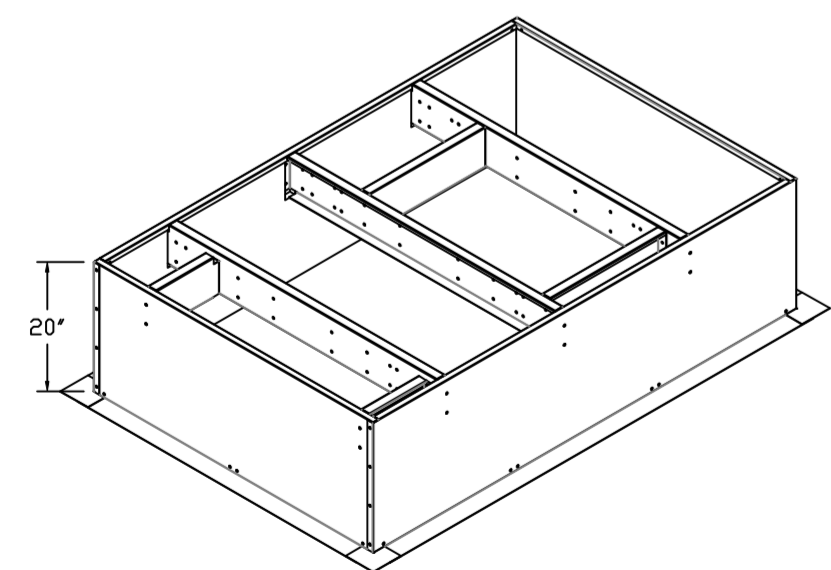
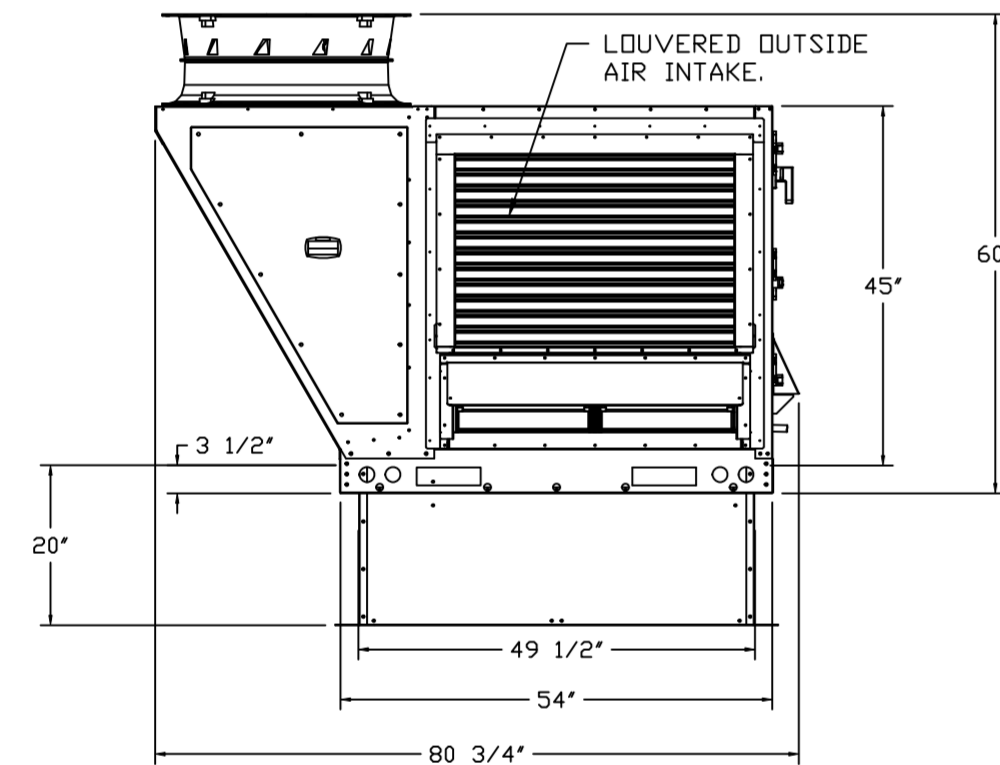
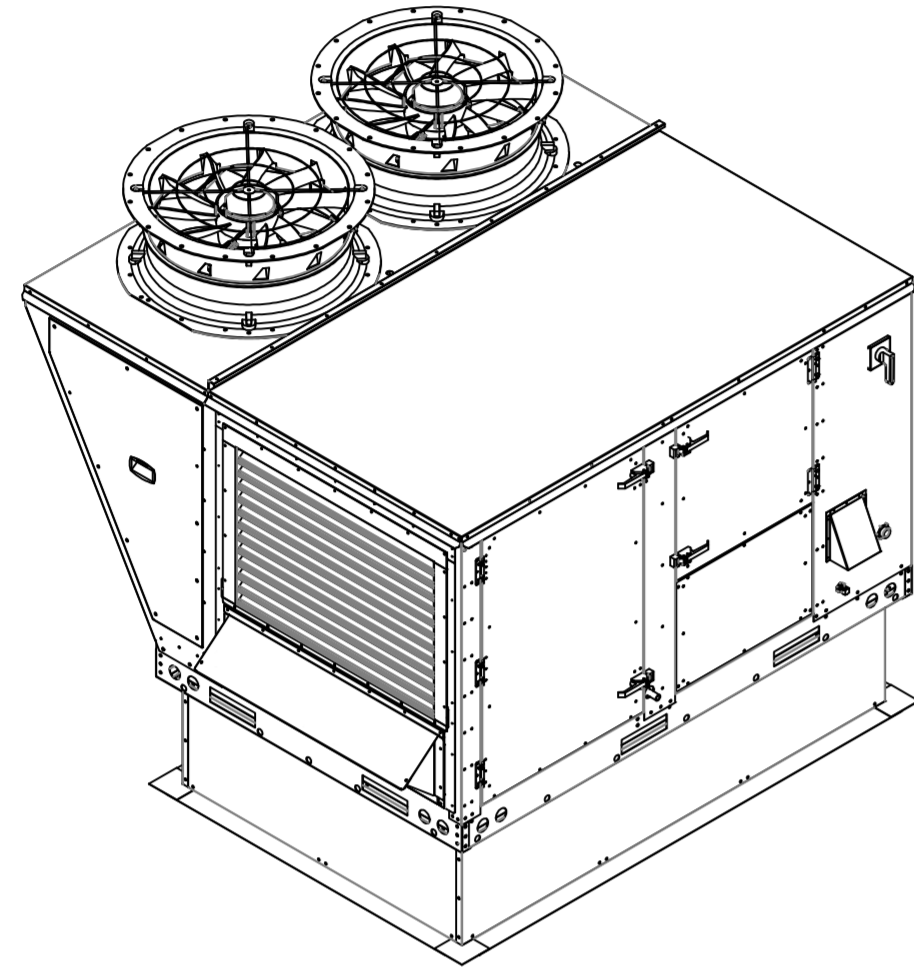
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FAN #5_CASRTU2-I.200-18-10T-DDAS - HEATER (RTU-1 (DINING))

NOTES:

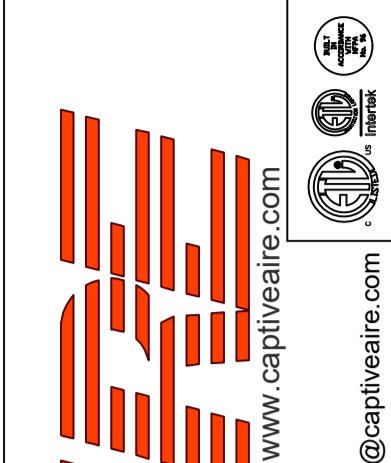
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

*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 20.5" x 30.25".



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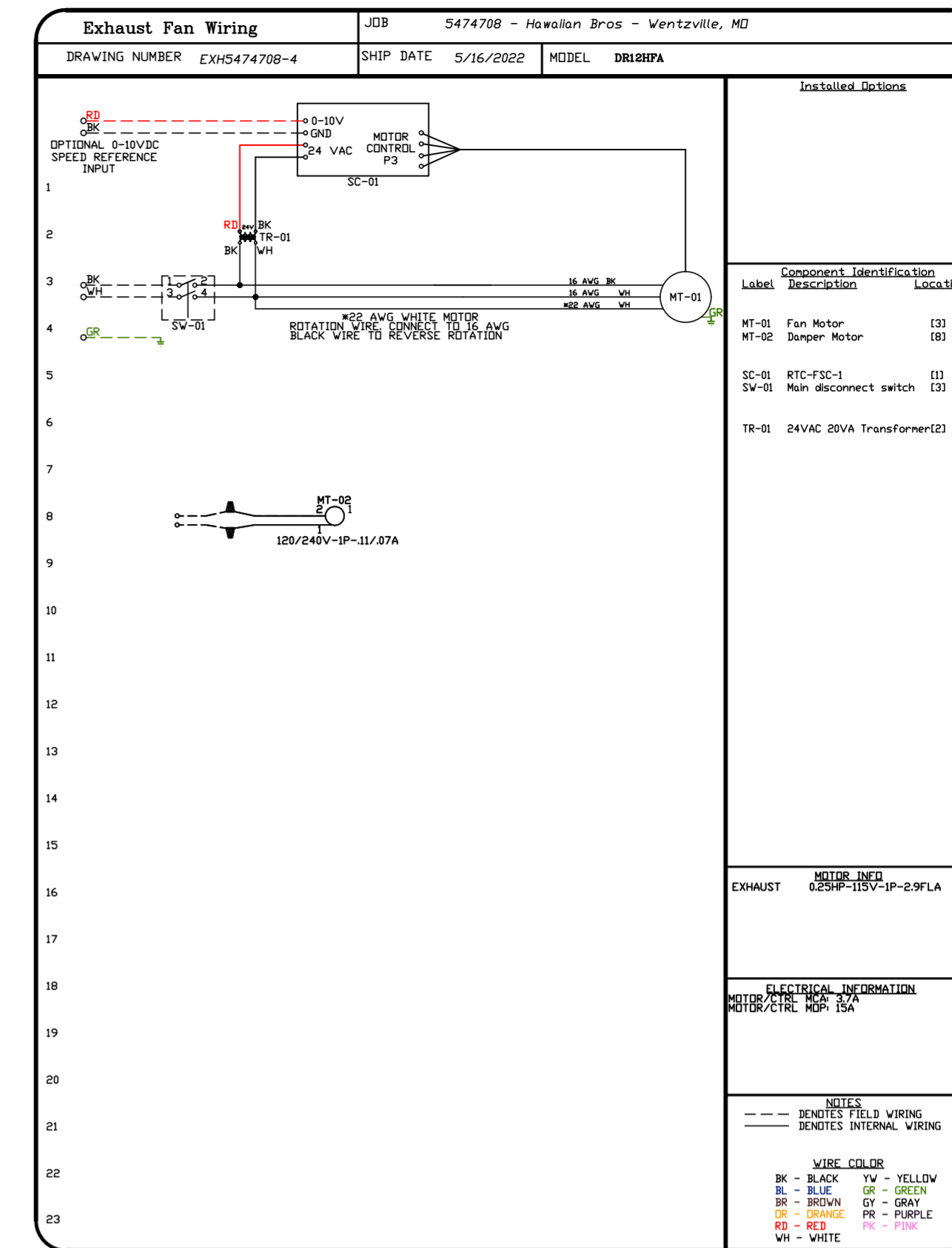
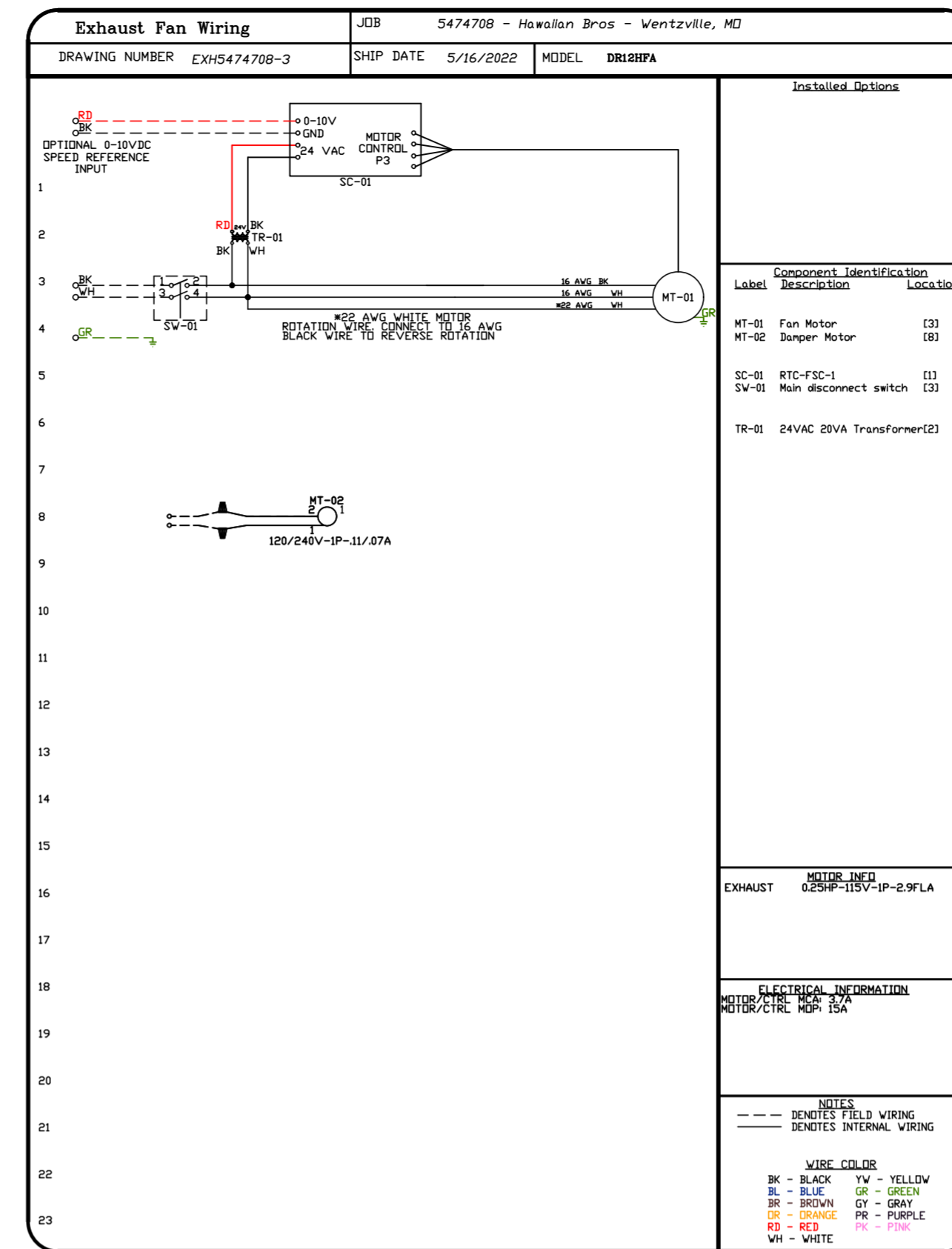
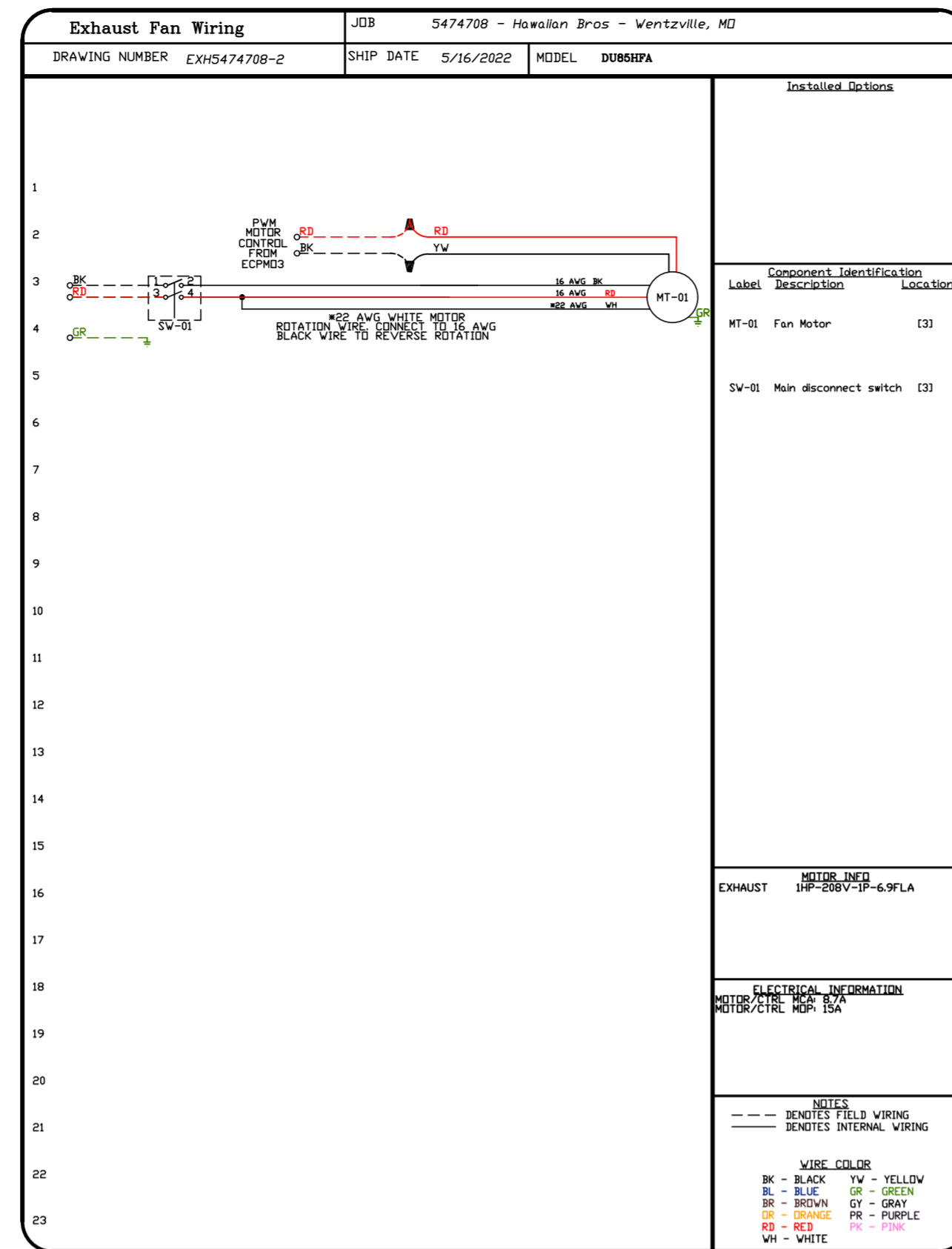
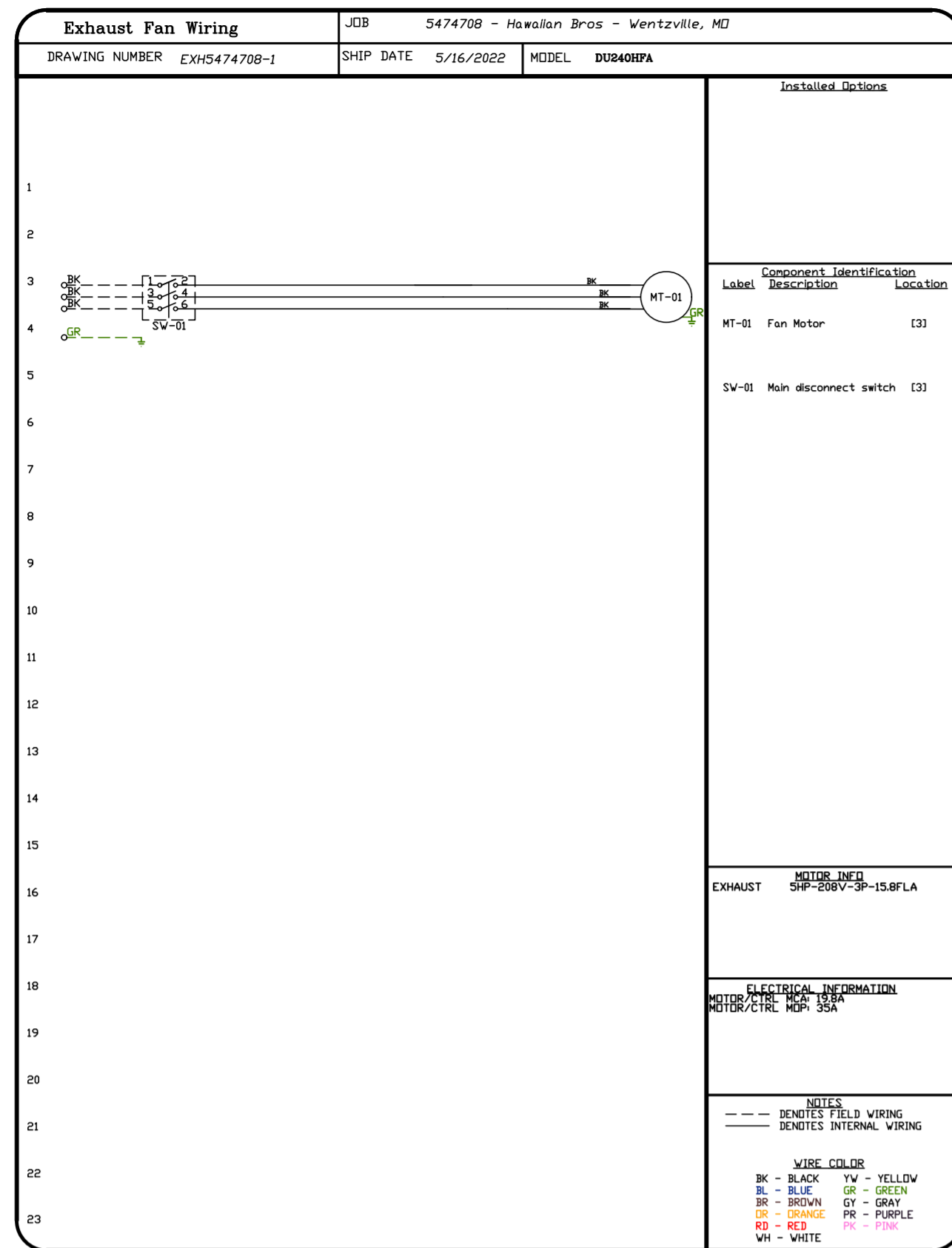
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SCALE: 1/2" = 1'-0"

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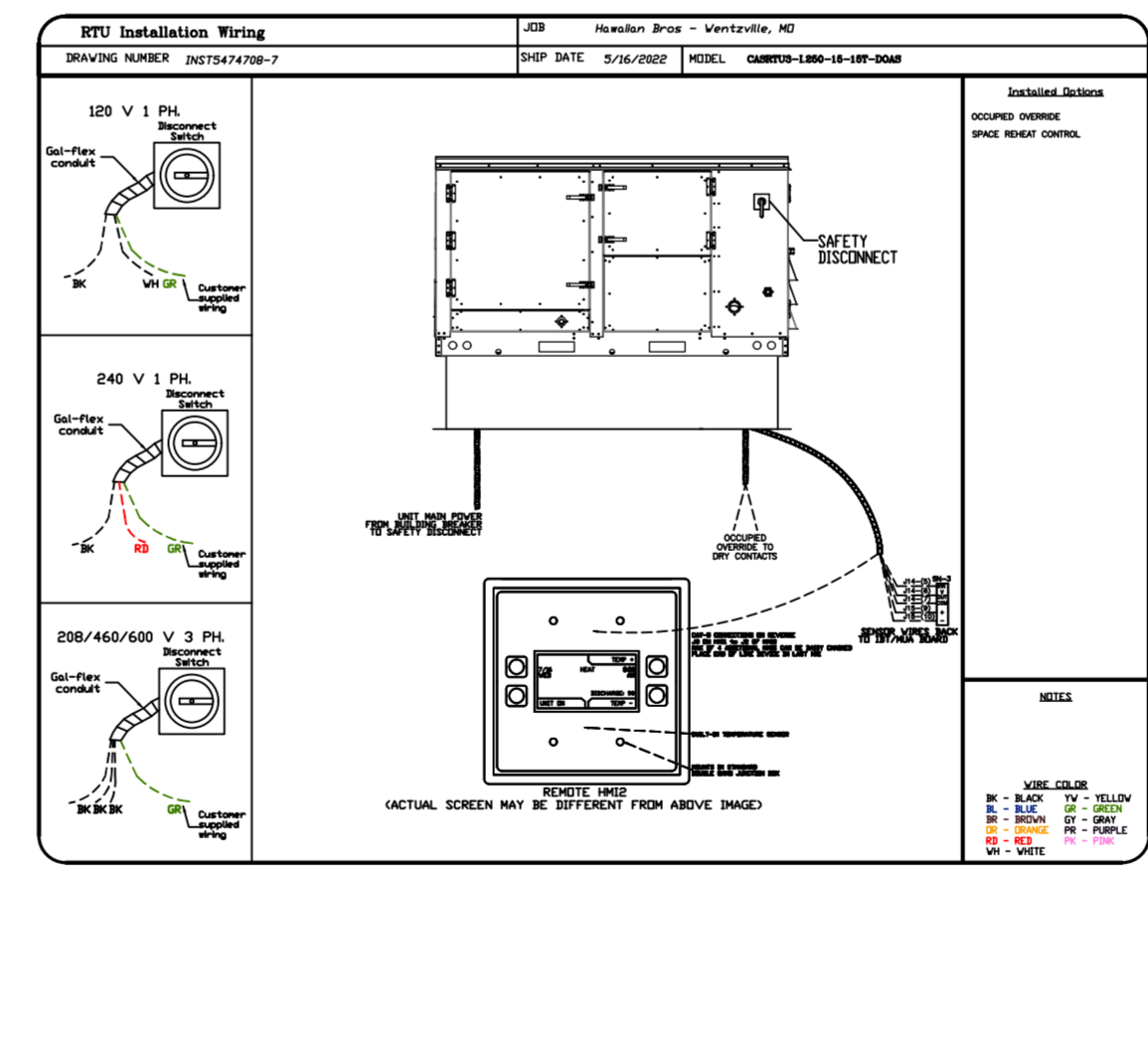
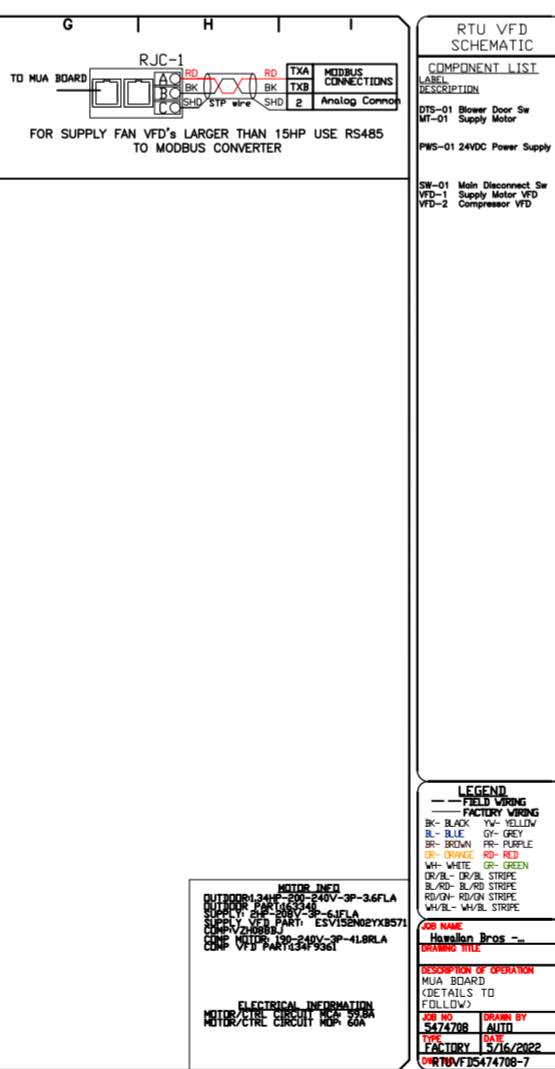
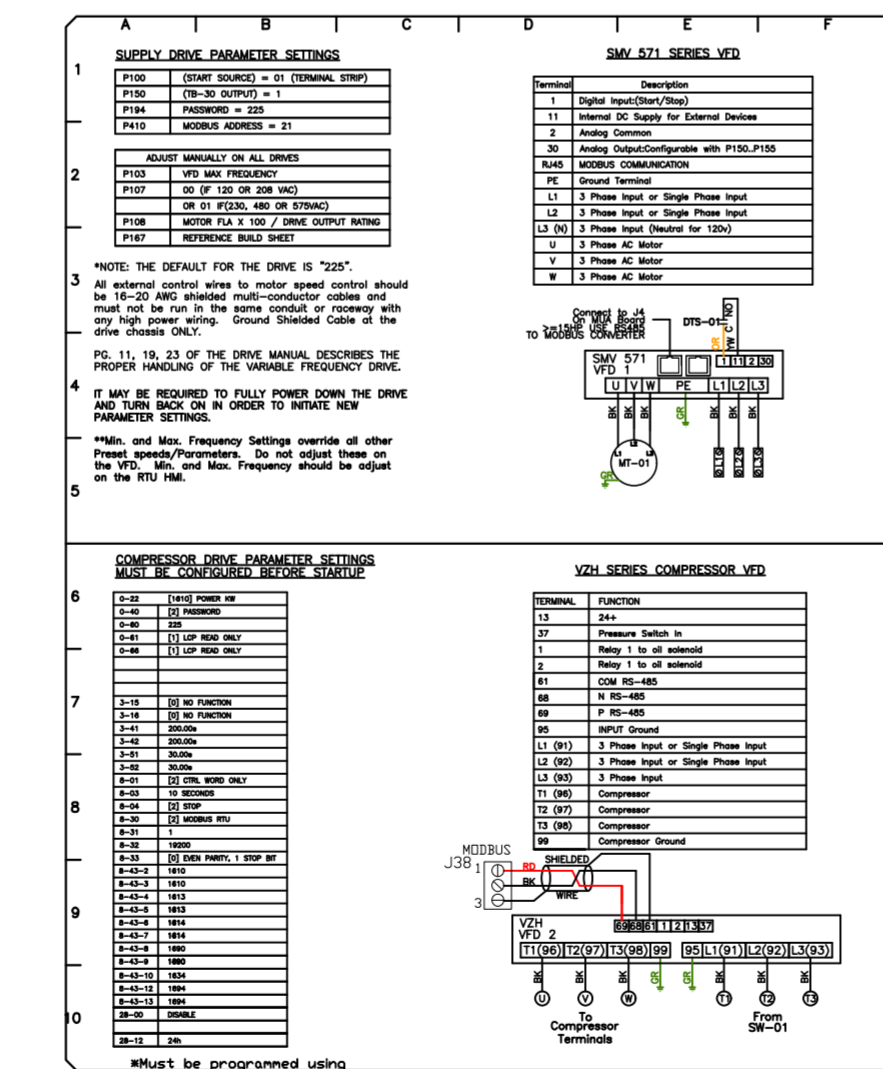
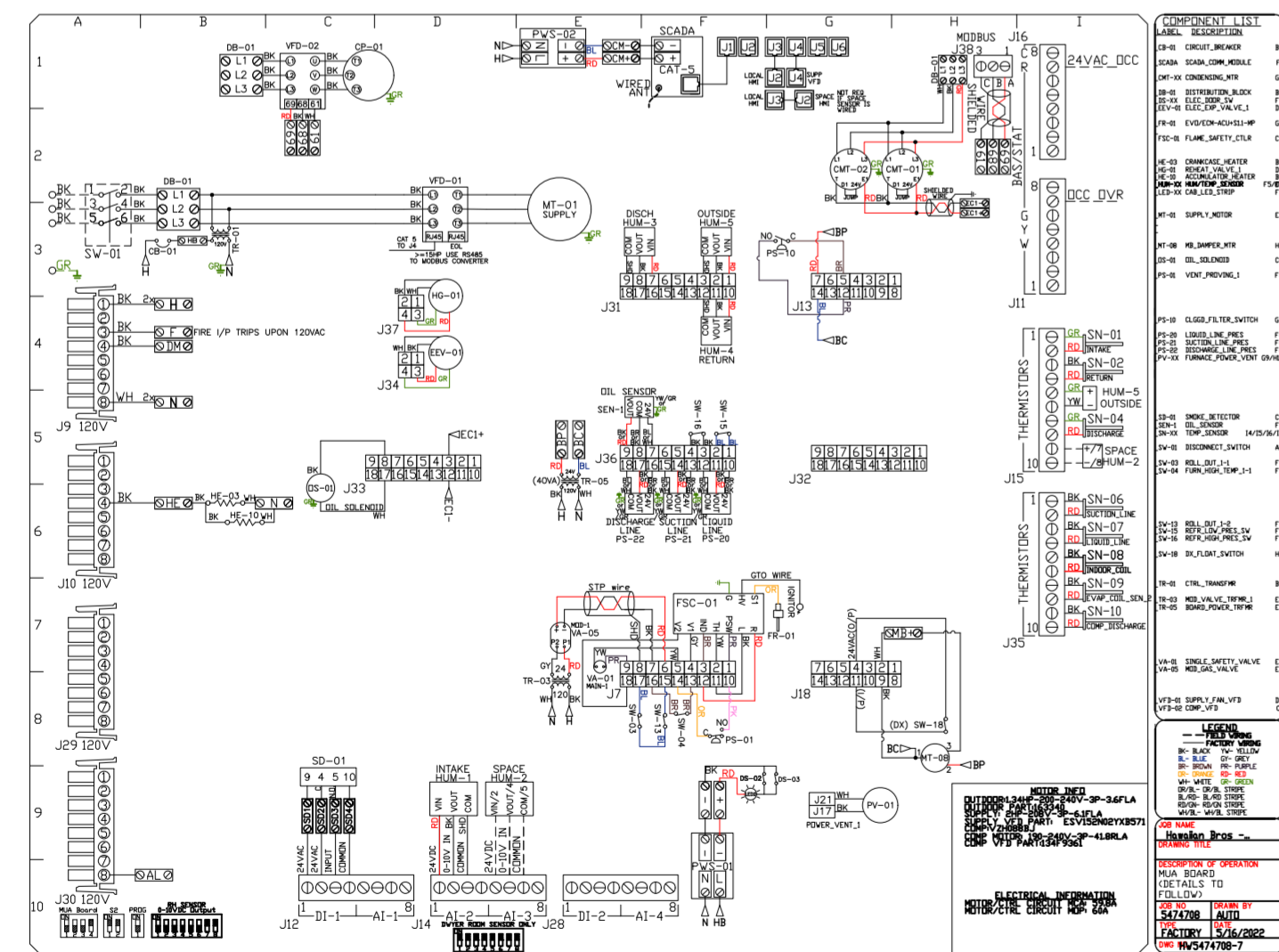
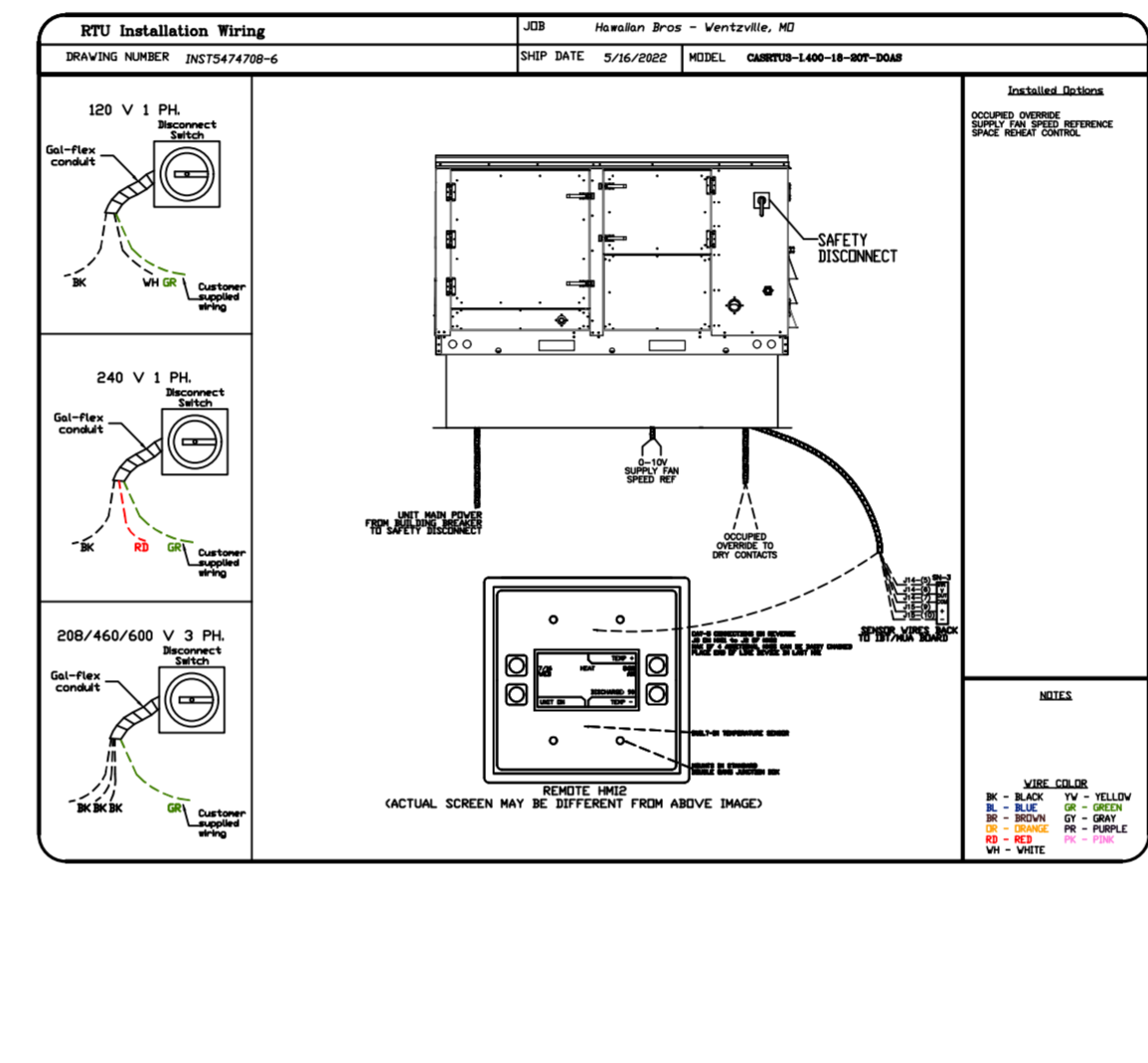
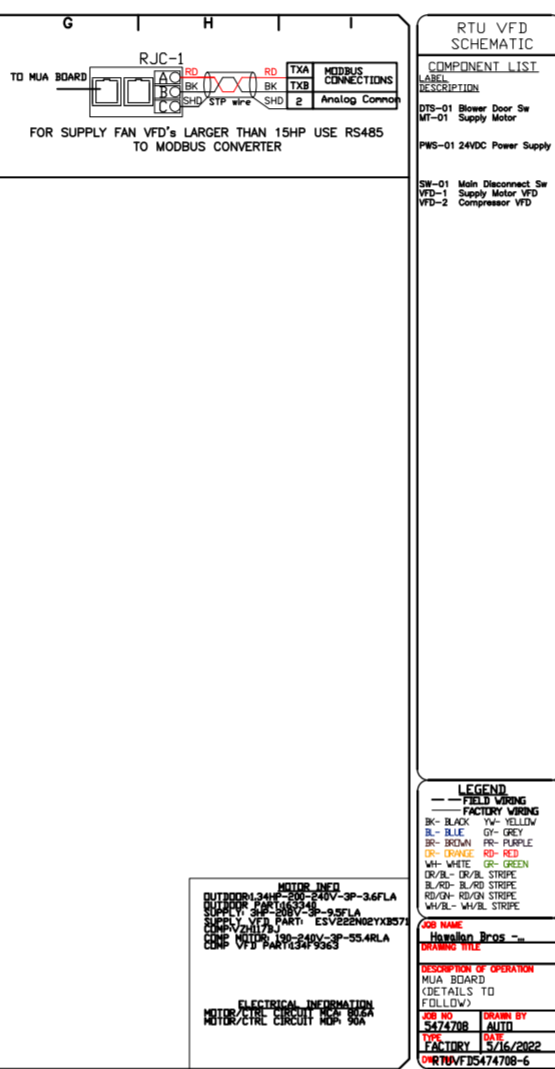
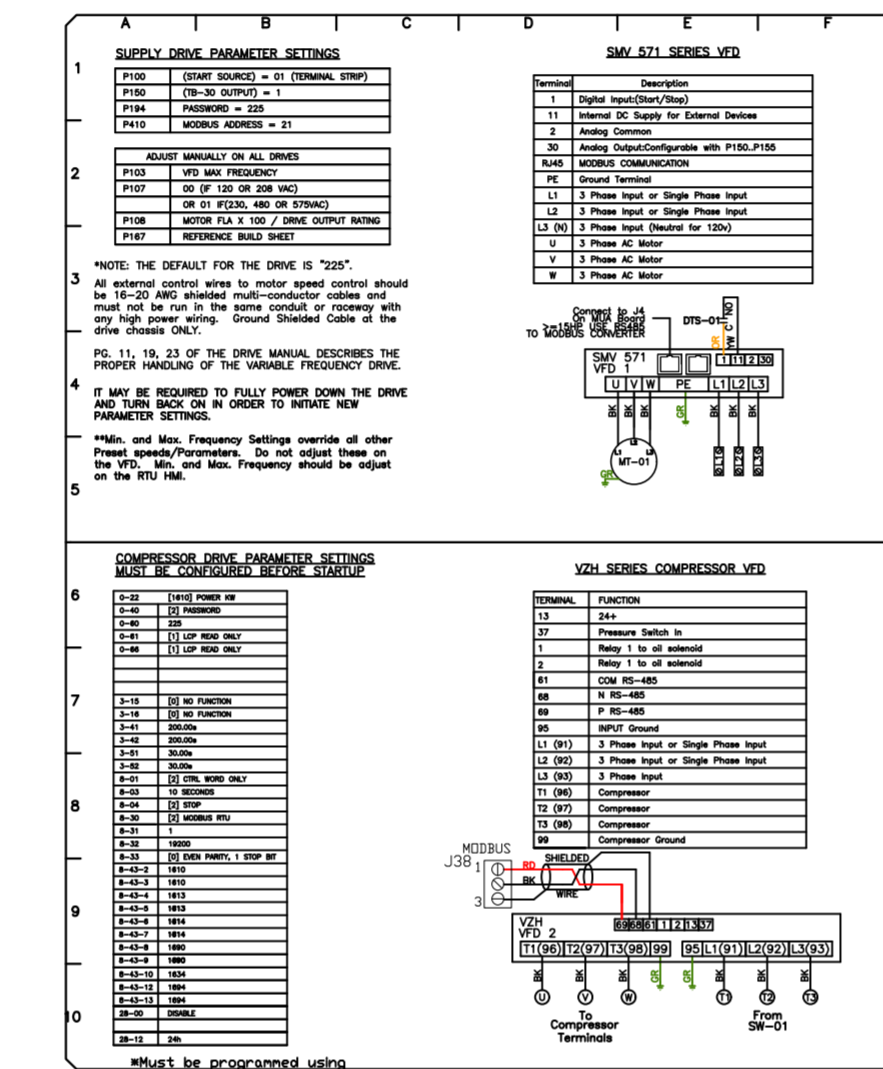
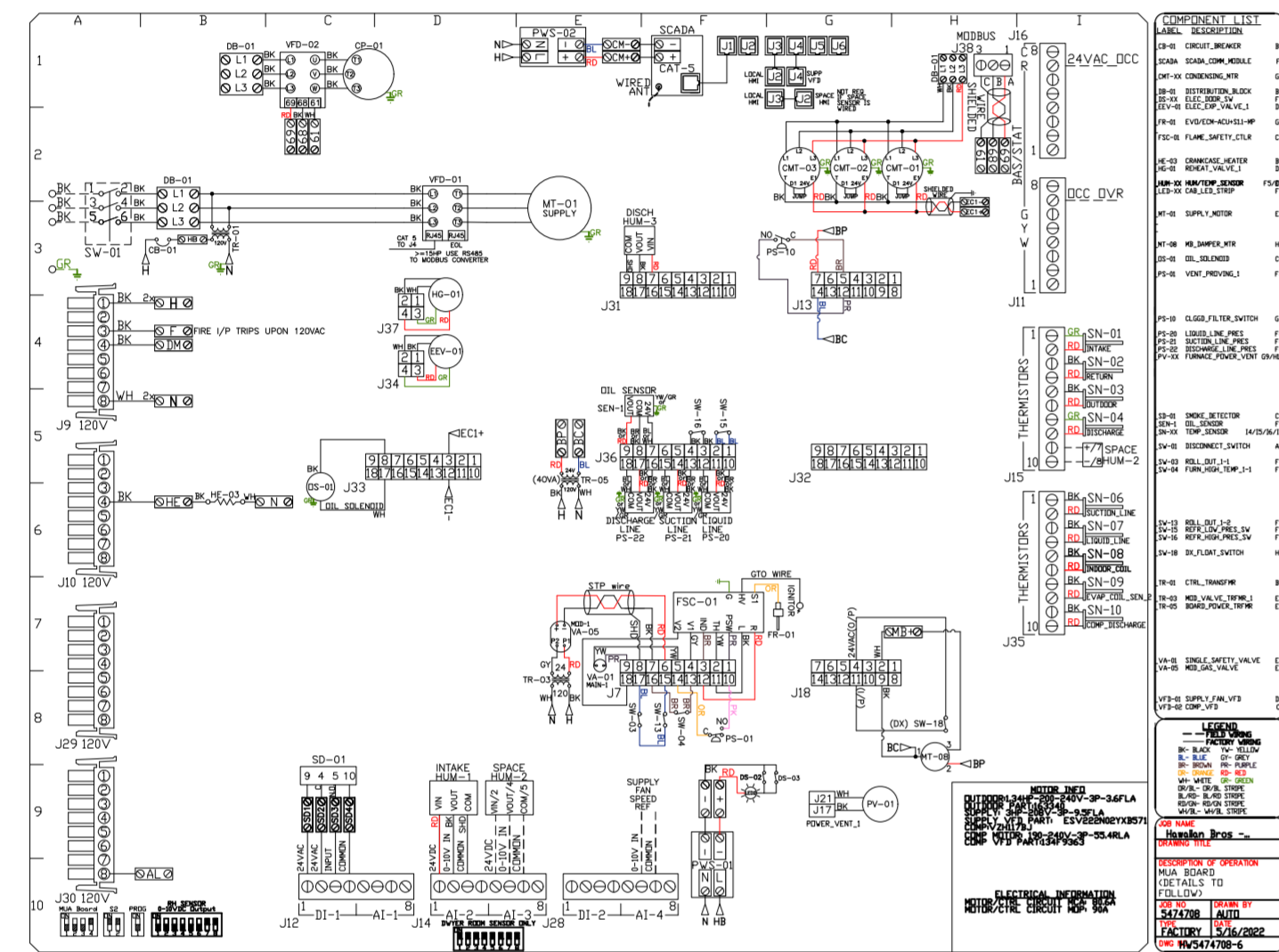
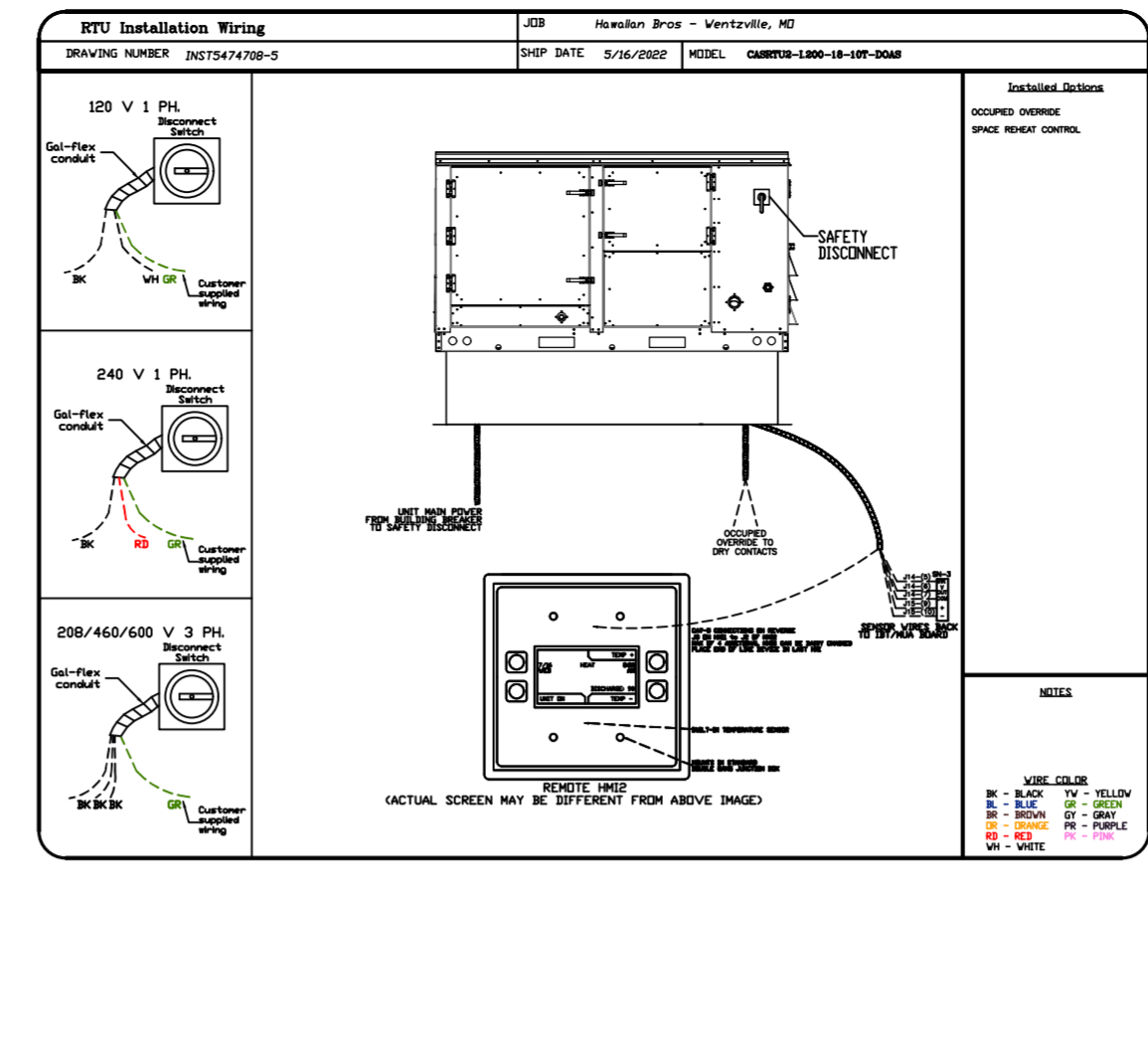
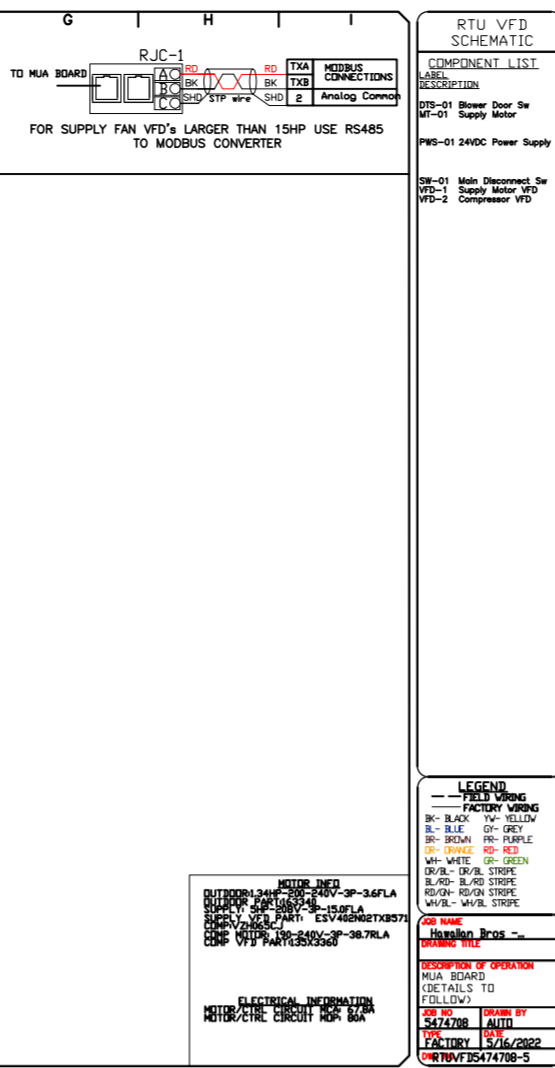
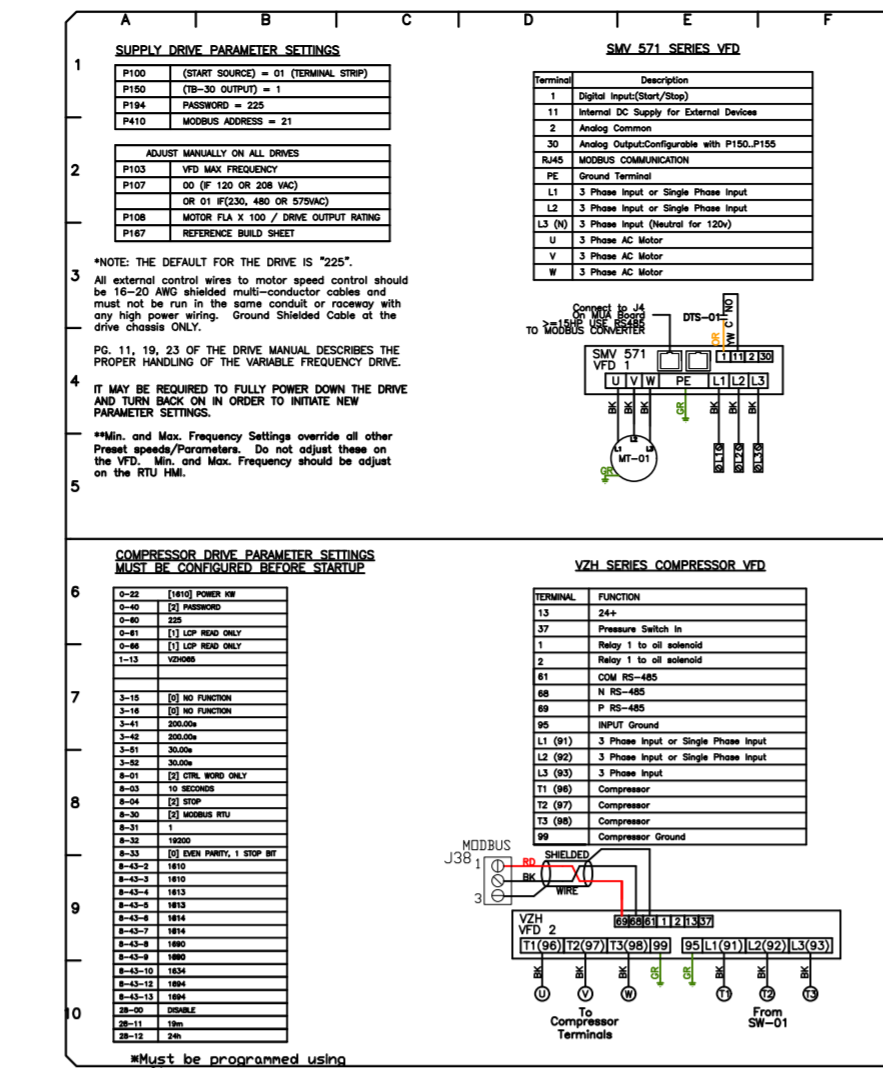
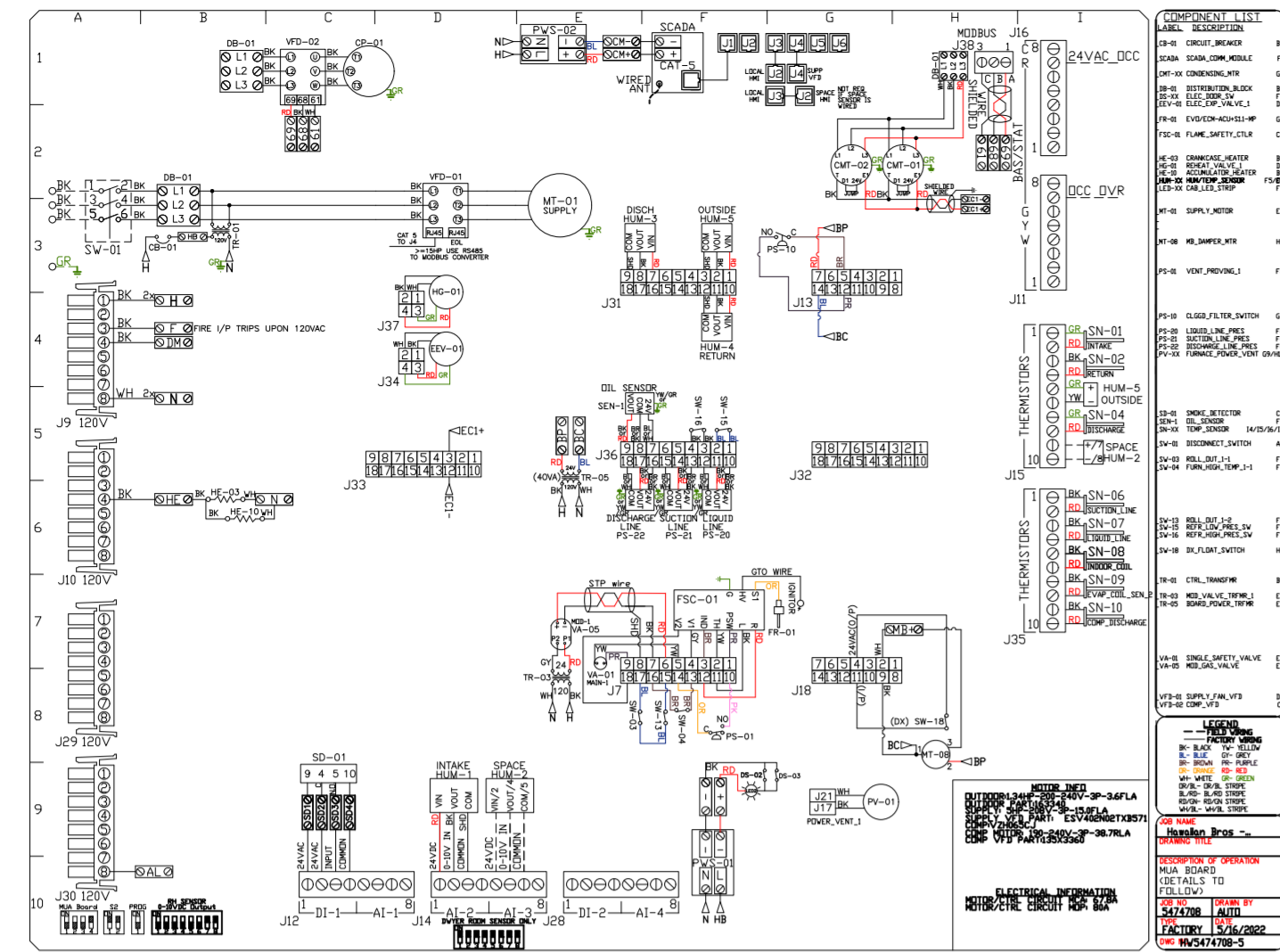
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