

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND-2	150	200	250
CANOPY ND-2 W/ END PANELS	105	140	175
SLOPED SNO-2	228	294	-
ISLAND ND-2H	269	300	350
ISLAND ND-2I	346	422	475

ETL HOOD LISTING DETAIL	
EXHAUST CFM = LENGTH OF HOOD X CFM/INCH (LxQ)	
SUPPLY CFM = EXHAUST CFM X PERCENTAGE REQUIRED	
TOTAL DUCT AREA (sq. ft.) = 144 X (CFM) ²	
DUCT LENGTH = TOTAL DUCT AREA	
DUCT WIDTH =	

CAPTIVE-AIRE HOODS BUILT IN COMPLIANCE WITH:

ETL LISTED UNDER ETL File number 3054804-001/002

BUILDING CODES

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

MATERIAL	CLEARANCE	REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED	
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF	
COMBUSTIBLE	1" INSULATED STANDOFF	

CLEARANCE TO COMBUSTIBLES

INSTALLATION

- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
- ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS; ALL OTHER HANGING MANIPULATED BY INSTALLING CONTRACTORS.
- ALL CONNECTIONS FROM CAPTURED HOOD PER MECHANICAL CONTRACTOR'S PLANS.
- COOKING EQUIPMENT TO SHUT OFF IN EVENT OF FIRE.
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
- ALL LIGHT FIXTURES SHOWN INSTALLED BY CAPTIVE-AIRE AND FACTORY PROVIDED; INTERCONNECTING BETWEEN HOODS AND TO SWITCHES ARE BY ELECTRICAL CONTRACTOR.
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
- SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- 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.

GENERAL NOTES

1. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.

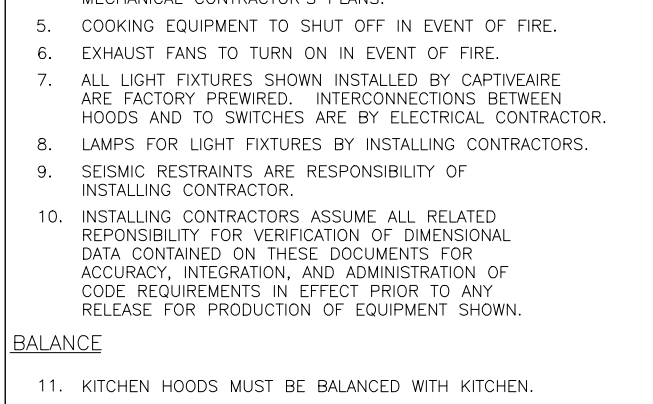
2. DIMENSIONS AND "TOLERANCES" SHOWN ON THIS DOCUMENT MUST BE RESPECTED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

SEISMIC RESTRAINTS

11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.

12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DRINKING AREA.

13. RESTRAINTMENT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.



FILTER COLLECTION EFFICIENCY	
EFFICIENCY (%)	PARTICLE DIAMETER (µm)
100	10
100	20
100	30
100	40
100	50
100	60
100	70
100	80
100	90
100	100

PHYSICAL PROPERTIES		TEST METHOD	
Color System	ASTM	ASTM F19	
Moisture Content, %	ASTM	ASTM D412	
Physical Properties (Count)	ASTM	ASTM D412	
Specific Gravity	ASTM	ASTM D153	
Extraction Rate, g/m	ASTM	ASTM D153	
Temperature Range	ASTM	ASTM D153	
Temperature Resistance Range	ASTM	ASTM D153	
Accelerated Weathering (1000 hrs)	ASTM	ASTM D153	
Impact Resistance	ASTM	ASTM D153	
Tensile Strength (psi)	ASTM	ASTM D153	
Elongation at Break (%)	ASTM	ASTM D153	
Compression Modulus	ASTM	ASTM D153	
Modulus of Elasticity	ASTM	ASTM D153	
Modulus of Resilience	ASTM	ASTM D153	
Modulus of Toughness	ASTM	ASTM D153	

FOR QUESTIONS, CALL THE
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REGION 108
PHONE: (267) 504-4126
EMAIL: reg108@captiveaire.com

HOOD INFORMATION - JOB#5860037

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			
1	Hood Left	5430 ND-2	CAPTIVEAIRE	7' 9"	600 DEG	I	HEAVY	175	1356	4"	16"	1356	971	-0.338"	430 SS WHERE EXPOSED	LEFT ALONE
2	Hood-Right	5430 ND-2	CAPTIVEAIRE	7' 10"	600 DEG	I	HEAVY	175	1371	4"	16"	1371	982	-0.345"	430 SS WHERE EXPOSED	RIGHT ALONE

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HOOD INFORMATION

HOOD NO	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		UTILITY CABINET(S)		HOOD HANGING WEIGHT
								TYPE	WIRE GUARD	FIRE SYSTEM	ELECTRICAL	
1	Hood Left	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	43		410 LBS
2	Hood-Right	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	43	RIGHT	875 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Hood Left	FIELD WRAPPER 18.00" HIGH FRONT, LEFT. LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED. LEFT WALL AS END PANEL. FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
2	Hood-Right	RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

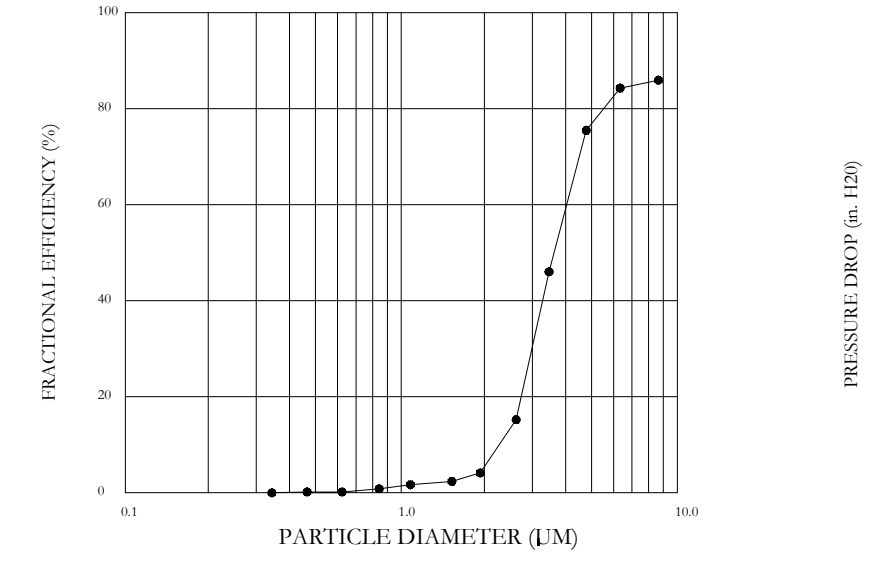
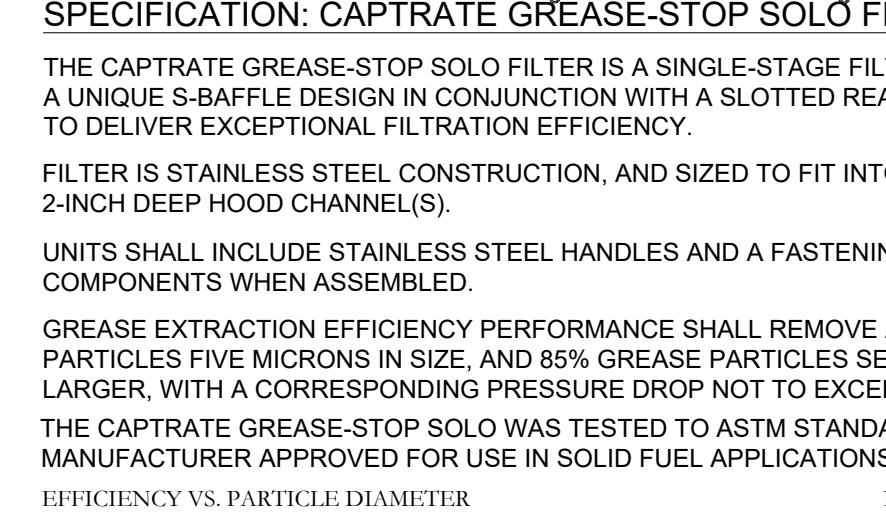
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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.

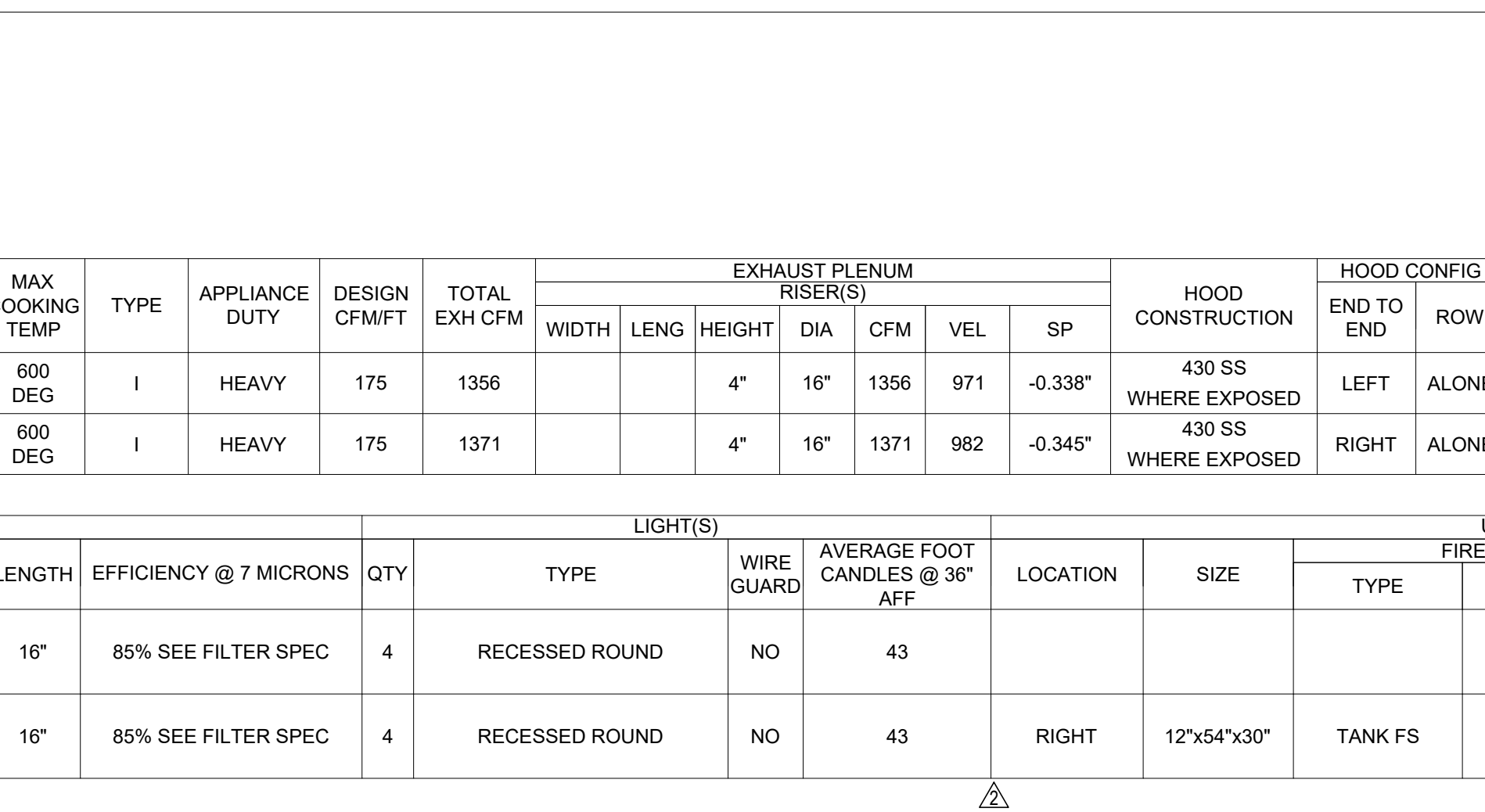
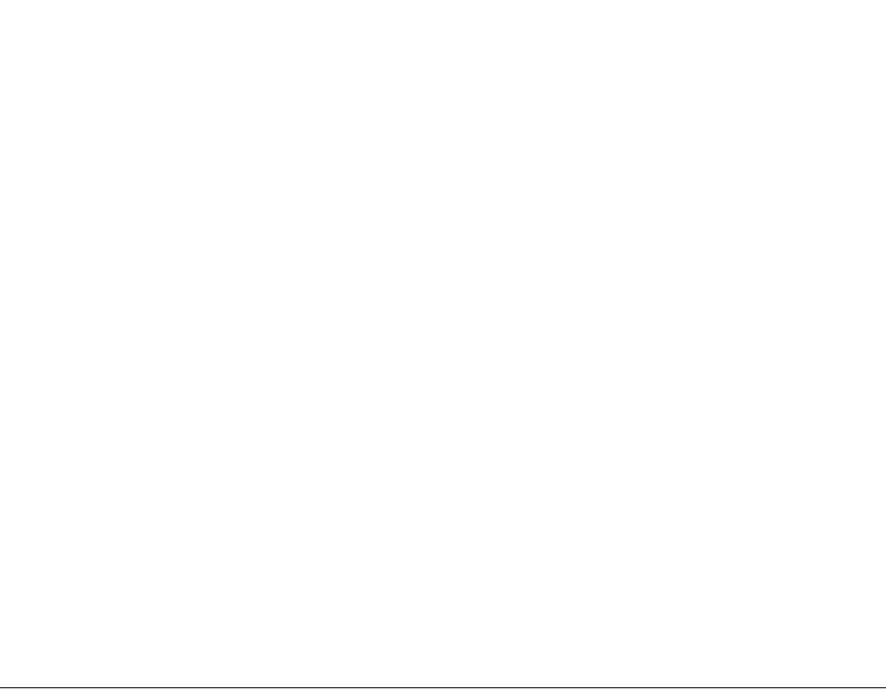
THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



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



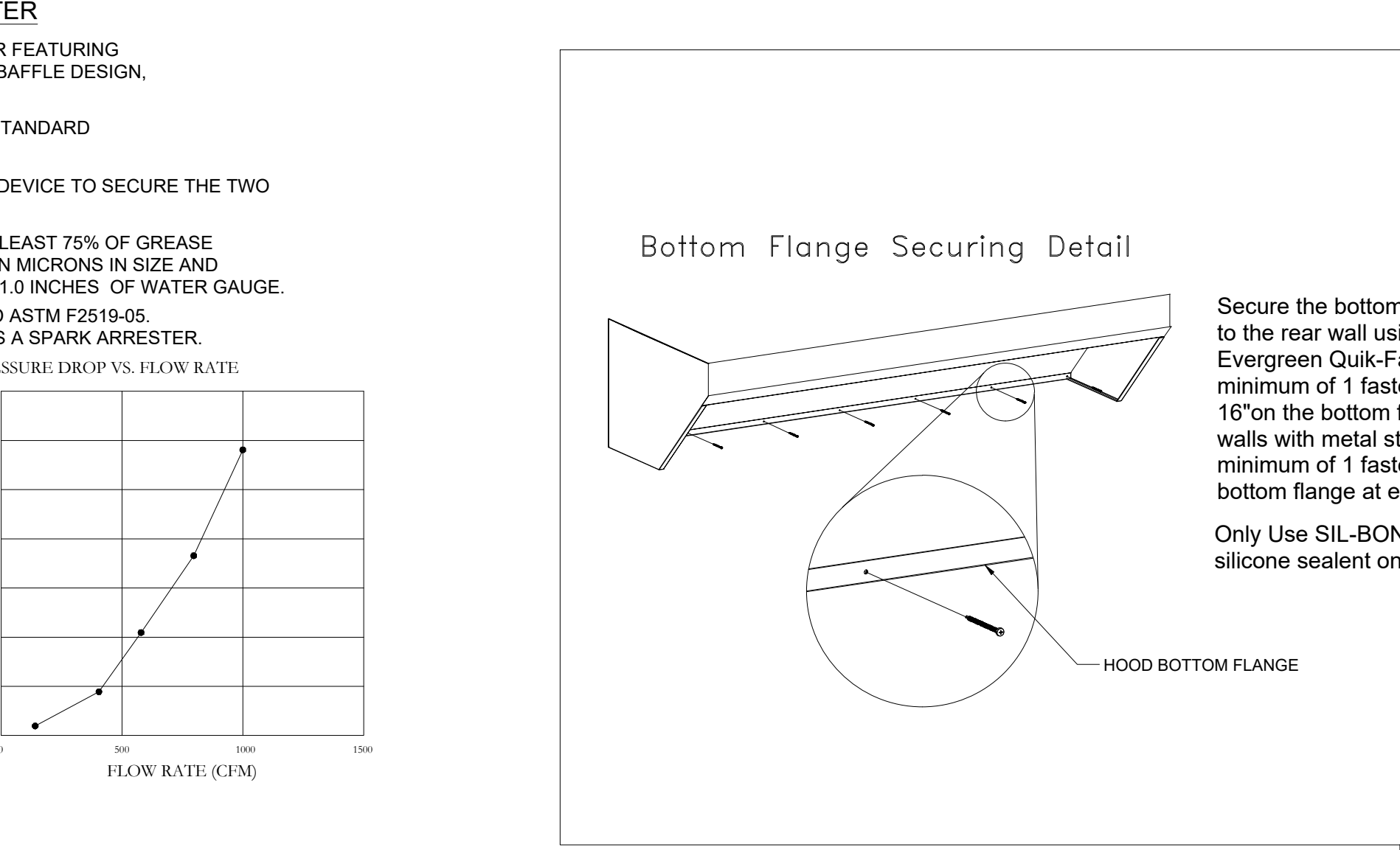
HOOD FASTENING "KIT" DETAIL & SIL-BOND RTV 4500 (ALUMINUM SILICONE)



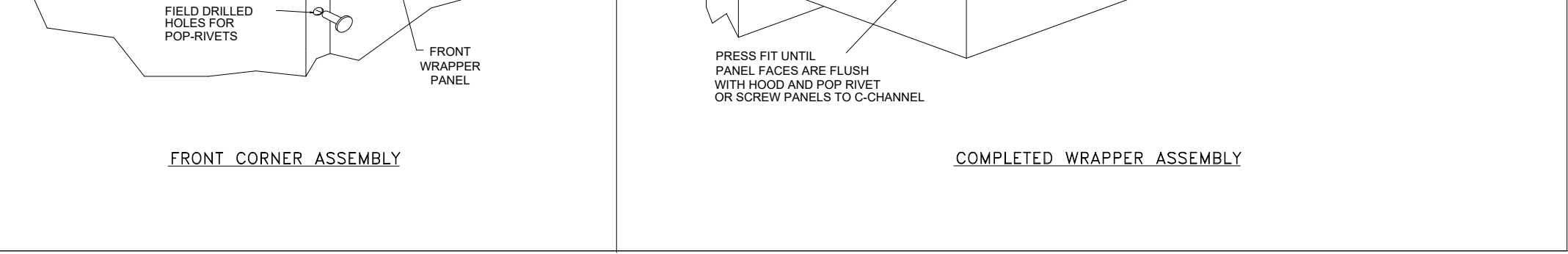
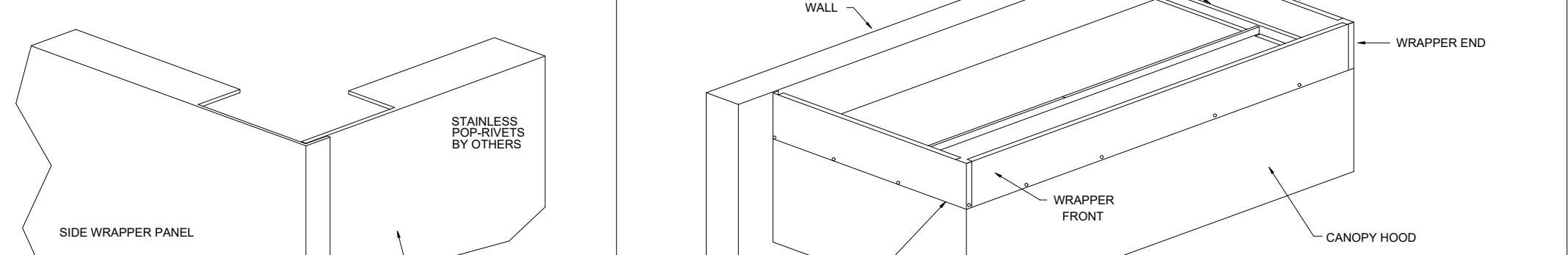
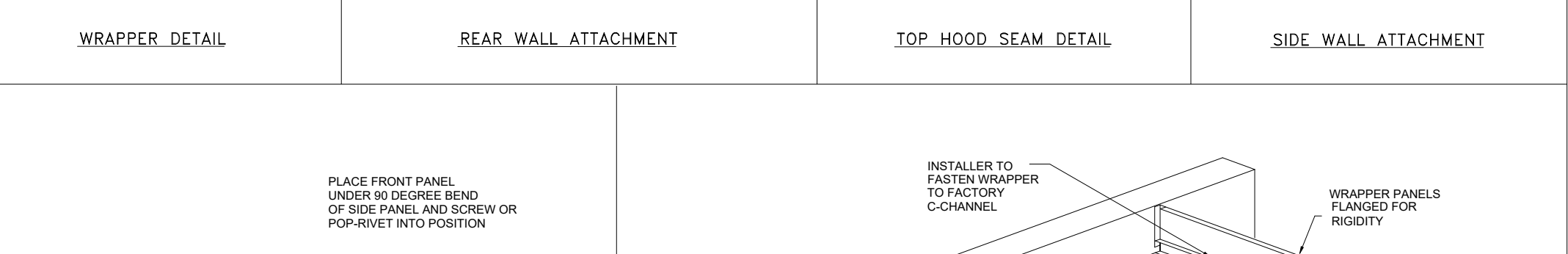
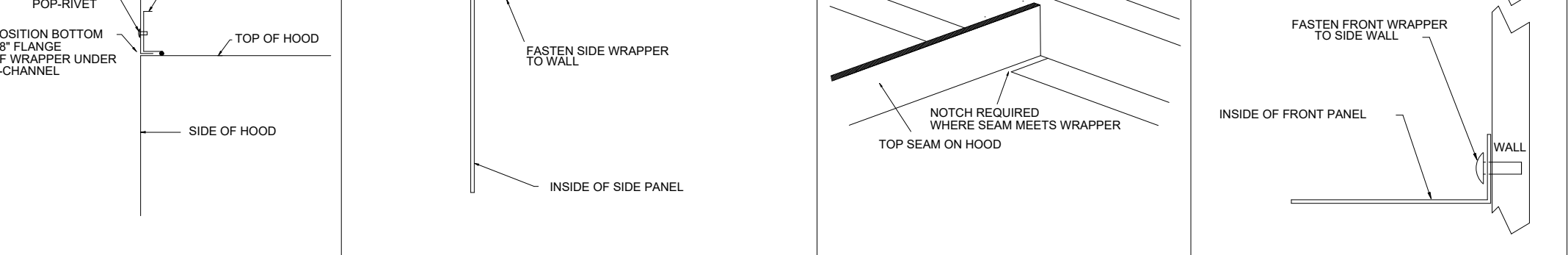
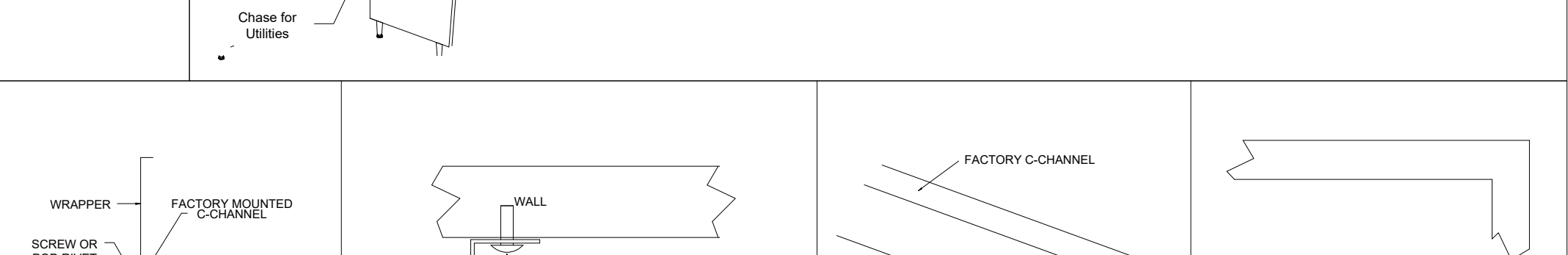
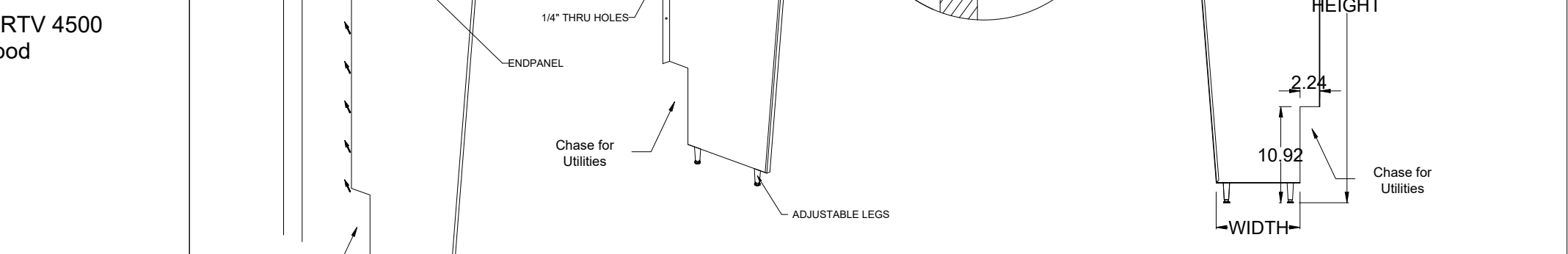
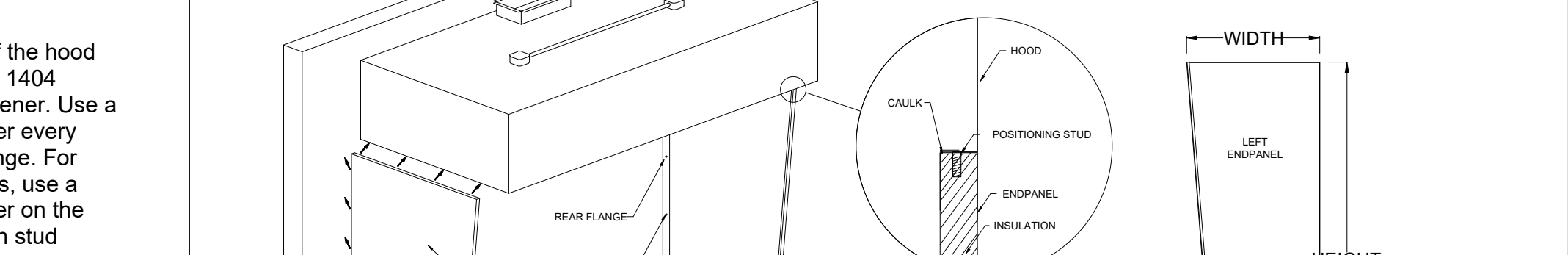
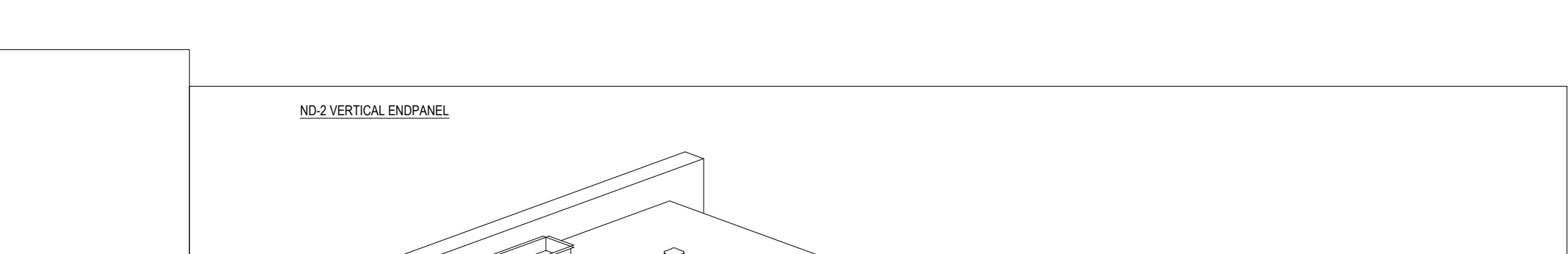
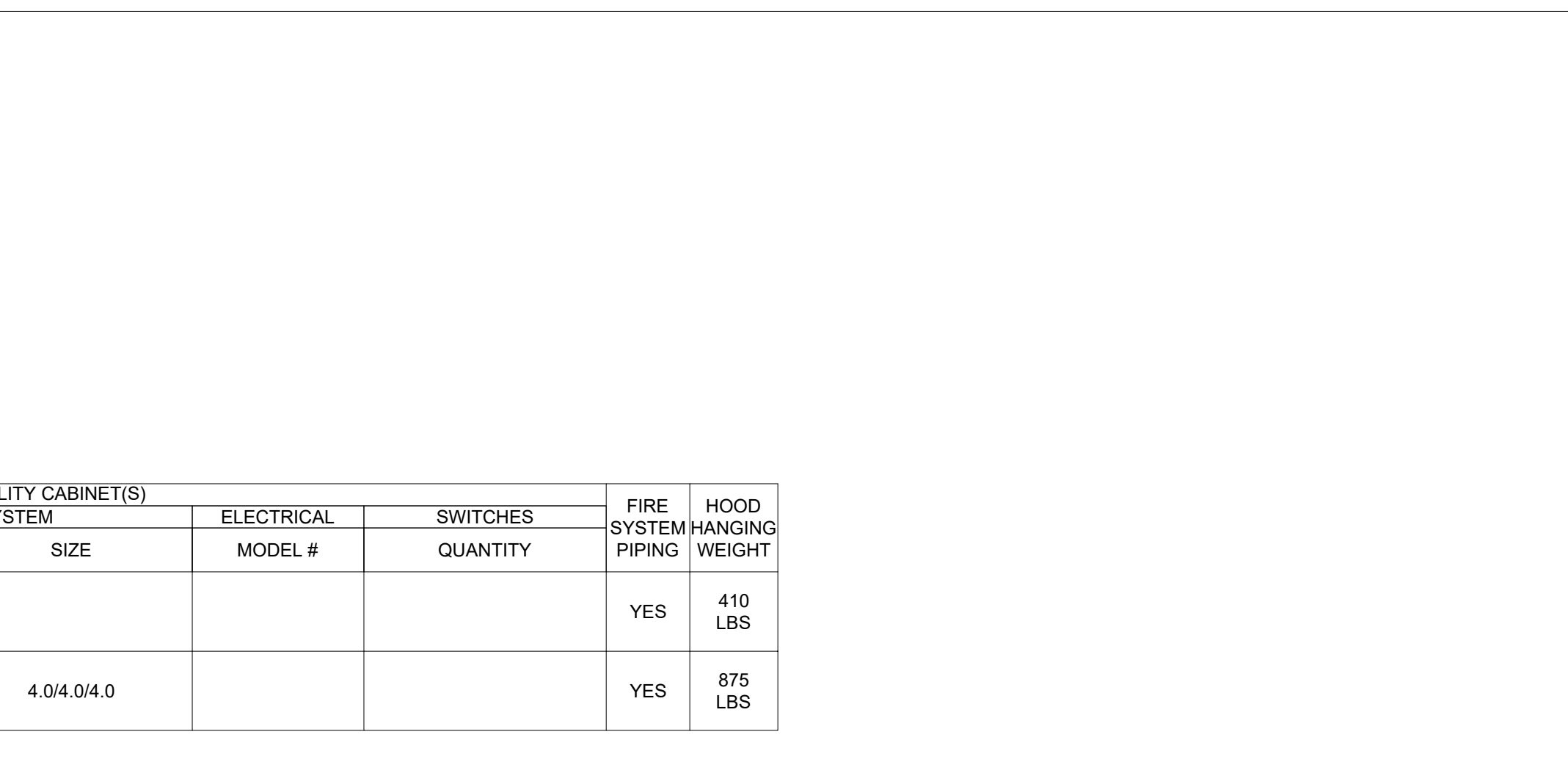
Bottom Flange Securing Detail

Secure the bottom of the hood to the rear wall using 1404 Evergreen Quik-Fastener. Use a minimum of 1 fastener every 16" on the bottom flange. For walls with metal studs, use a minimum of 1 fastener on the bottom flange at each stud.

Only Use SIL-BOND RTV 4500 silicone sealant on hood.



HOOD FASTENING "KIT" DETAIL & SIL-BOND RTV 4500 (ALUMINUM SILICONE)



REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR BID AND PERMIT	10/14/2022
2	ADDENDUM 1	11/18/2022
3	ADDENDUM 3	02/03/2023
4	ADDENDUM 4	03/10/2023
5	ADDENDUM 5	03/31/2023

DATE: 2/15/2023
DWG.#: 5860037
DRAWN BY: joe.shiiba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

CAPTIVE

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DATE Description

10/14/2022 ISSUED FOR BID AND PERMIT

11/18/2022 ADDENDUM 1

02/03/2023 ADDENDUM 3

03/10/2023 ADDENDUM 4

03/31/2023 ADDENDUM 5



Seal / Signature

Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

Description
CAPTIVE AIRE DRAWING

Scale
AS INDICATED

M-701

12 OF 21

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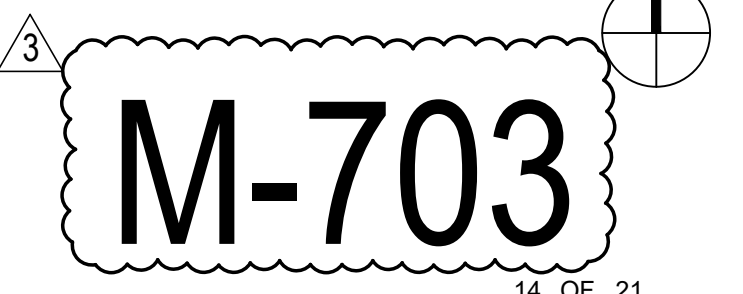
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AS INDICATED



FIRE SYSTEM INFORMATION - JOB#5860037

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	51	FIRE CABINET RIGHT	RIGHT, HOOD 2

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

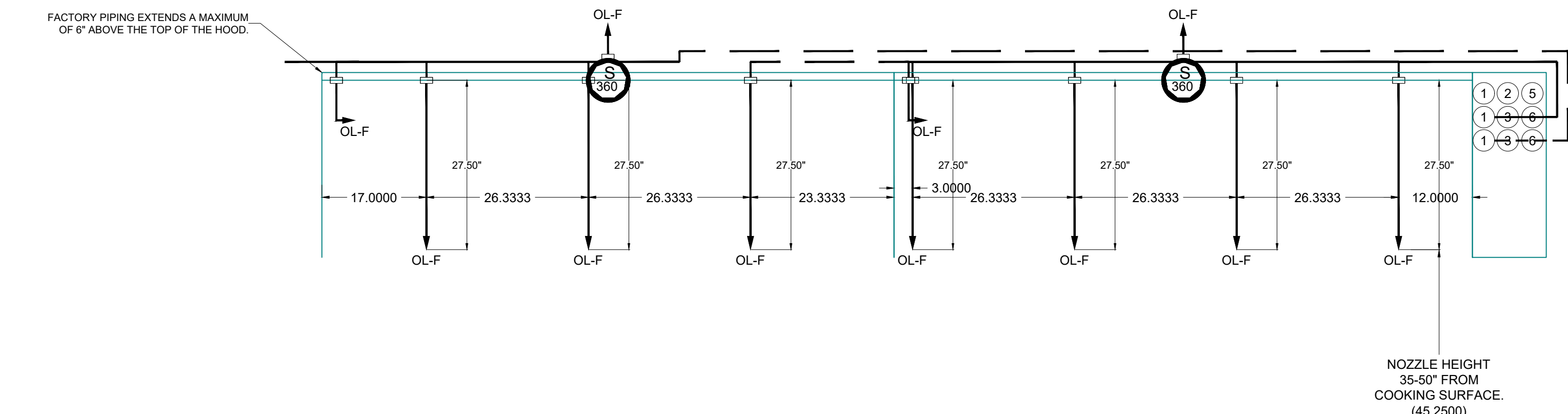
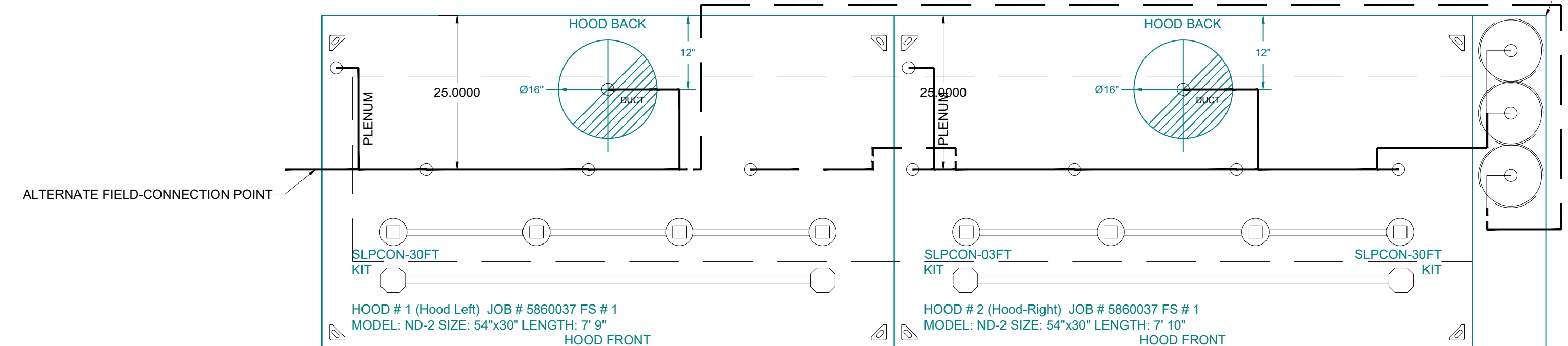
JOB #: 5860037
JOB NAME: SHAKE SHACK-1416-VILLAGEDISTRICT, NC-KITCHEN-R5.

SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 51.
HOOD # 1 7' 9.00" LONG x 54" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 7' 10.00" LONG x 54" WIDE x 30" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

- 4 GALLON TANK
- PRIMARY ACTUATOR RELEASE
- SECONDARY ACTUATOR RELEASE
- PRESSURE SUPERVISION SWITCH
- PRIMARY HOSE ASSEMBLY
- SECONDARY HOSE ASSEMBLY
- REMOTE MANUAL ACTUATION DEVICE



- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS

REVISIONS

NO.	DESCRIPTION	DATE

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Shake Shack-1416-VillageDistrict, NC-Kitchen-R5
RALEIGH, NC, 27605

DATE: 2/15/2023
DWG.#: 5860037
DRAWN BY: joe.shiiba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 3



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Seal / Signature

Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

Description
CAPTIVE AIRE DRAWING

Scale
AS INDICATED

M-704

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PHONE: (287) 504-4126
EMAIL: reg108@captivaire.com

DOAS/RTU FAN SCHEDULE - JOB#5655777

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION					ELECTRICAL INFORMATION					COOLING INFORMATION					REHEAT INFORMATION			GAS HEAT INFORMATION			NOTES										
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOC	OUTSIDE AIR DB	WB	MIXED AIR DB	WB	LEAVING AIR DB	WB	DP	TOTAL	SENS.	IEER		ISMRE	DISCHARGE DB	WB	CAPACITY DESIRED	MAX	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE
1	RTU-1(BOH)	1	CASRTU3-1300-18-15T-DOAS	CAPTIVEAIRE	18P-3	0	2630	2630	2534	1.000	3.00	3	208	63.4A	70A	94.0°F	76.0°F	94.0°F	76.0°F	56.7°F	54.1°F	52.3°F	186.0 MBH	101.8 MBH	18.8	5.7	75.0°F	62.5°F	53.2 MBH	129.6 MBH	76.3 LBS/HR	NATURAL	296296	240000	78°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
2	RTU-2(FOH)	1	CASRTU2-1300-18-10T-DOAS	CAPTIVEAIRE	18MF-2-RTU	2800	1200	4000	2043	0.700	5.00	3	208	67.8A	80A	78.8°F	66.1°F	76.1°F	63.3°F	53.4°F	53.4°F	53.5°F	112.2 MBH	96.5 MBH	18.6	4.3	73.5°F	61.2°F	89.4 MBH	96 MBH	14.3 LBS/HR	NATURAL	222222	180000	38°F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19

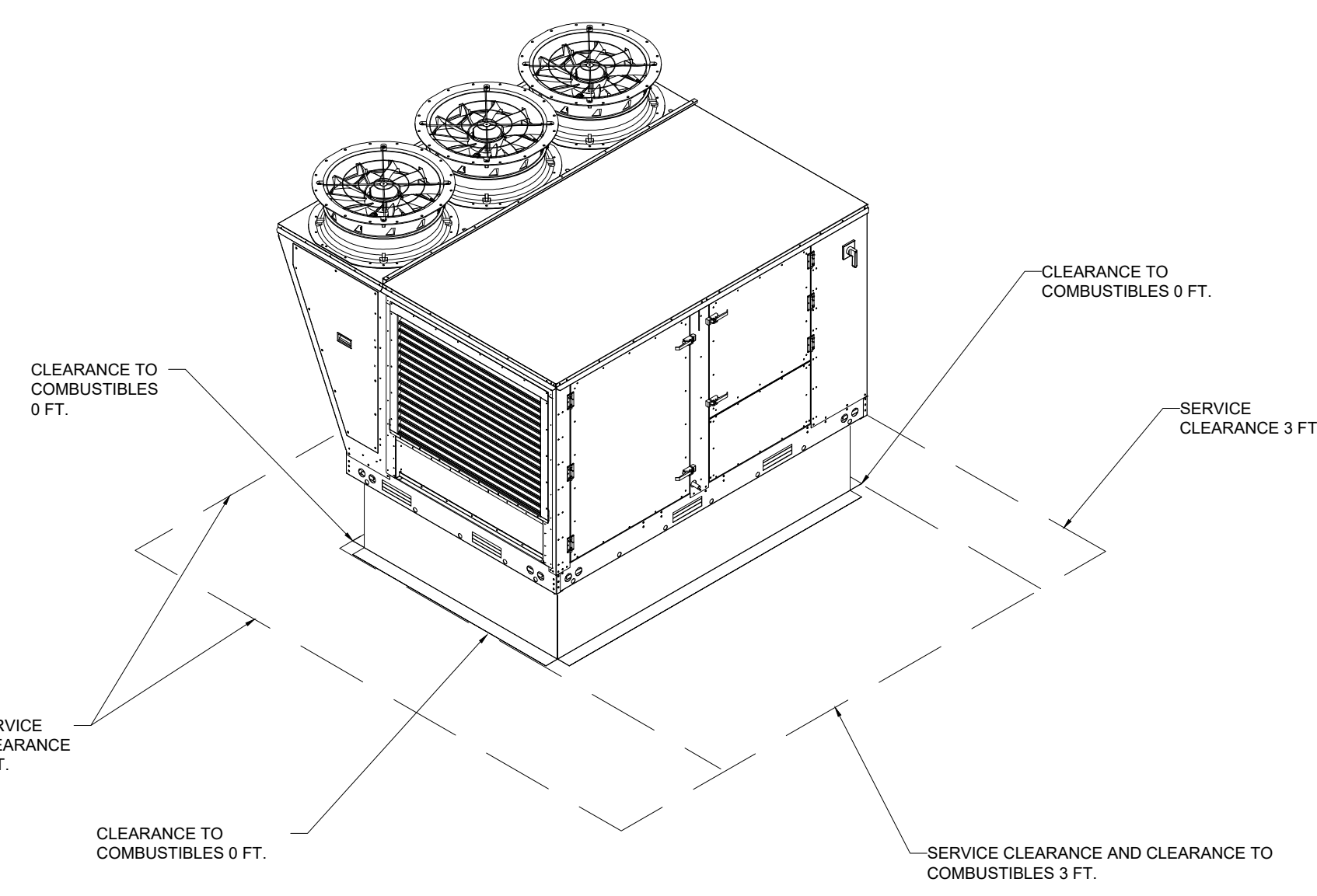
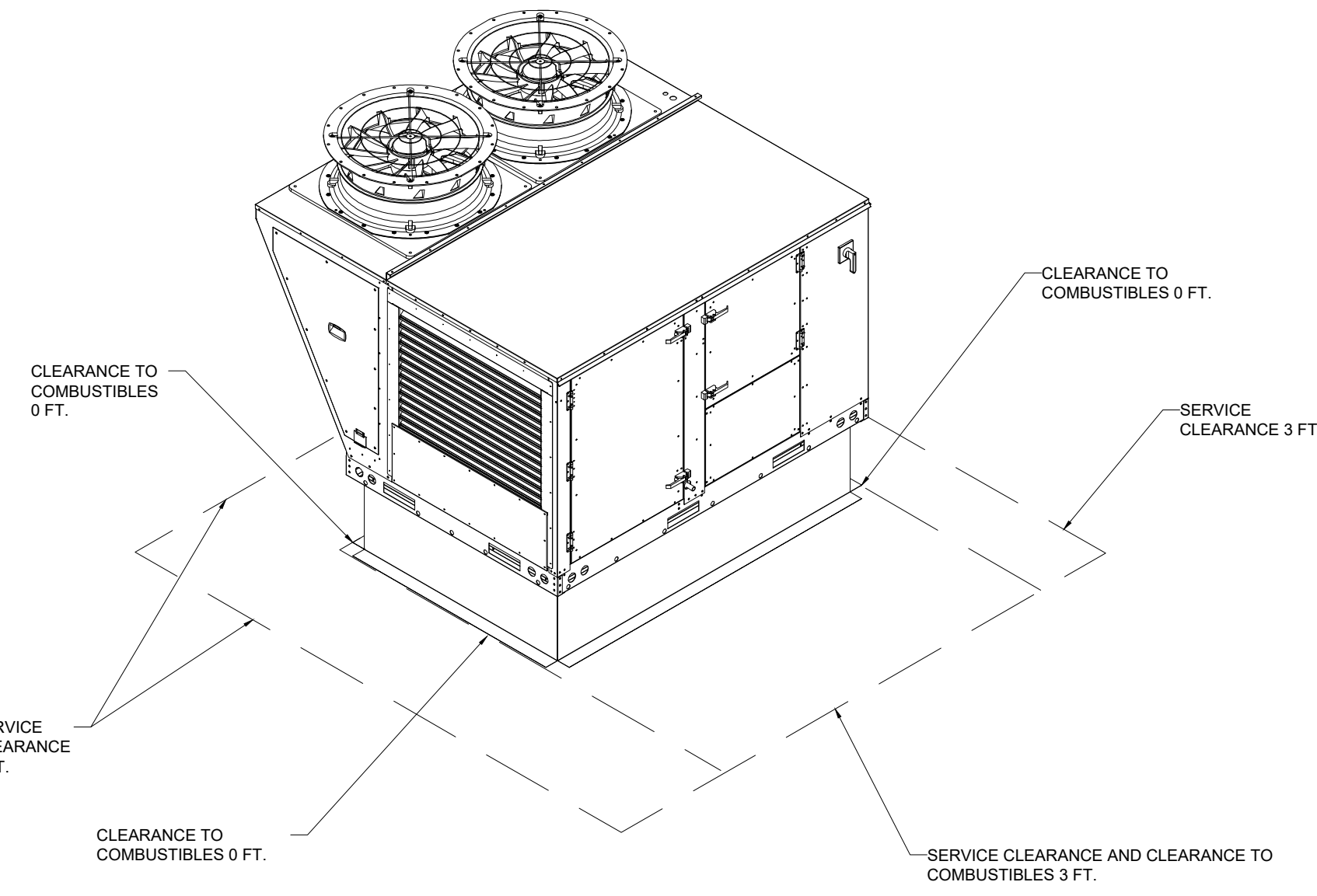
- NOTES:**
- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
 - DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
 - INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
 - REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW 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, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
 - 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
 - 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
 - SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
 - FULLY MODULATING HOT GAS REHEAT
 - HAIL GUARD FOR CONDENSING COIL
 - RTU ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL
 - SIDE DISCHARGE/SIDE RETURN
 - 15 DEGREE LOW AMBIENT OPERATION

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	RTU-1(BOH)	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		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	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	15 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	15 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	RTU3 CURB DUCT HANGER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	OCCUPIED SCHEDULING
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	FREEZESTAT
		1	VAV PACKAGE W/ MANUAL/DCV CONTROL (571 VFD INCLUDED)
		1	DAMPER PRESET POSITIONS
		1	RTU3 SIDE DISCHARGE
		1	RTU3 SIDE RETURN
		1	RTU ECONOMIZER - DIFFERENTIAL ENTHALPY CONTROL
		1	RTU3 HAIL GUARD
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)		
2	RTU-2(FOH)	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	RTU TOTAL CFM MONITORING
		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	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT
		1	RTU2 DOWN DISCHARGE
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	OVERHEAT STAT
		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	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	RTU2 CURB DUCT HANGER
		1	RTU2 DOWN RETURN
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	VAV PACKAGE W/ MANUAL/DCV CONTROL (571 VFD INCLUDED)
		1	RTU ECONOMIZER - DIFFERENTIAL ENTHALPY CONTROL
		1	RTU2 ECONOMIZER BAROMETRIC RELIEF
		1	RTU2 HAIL GUARD
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	OCCUPIED SCHEDULING
1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)		
1	LOAD REACTOR MOUNTED IN FAN		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)		

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	RTU-1(BOH)	68 LBS	CURB	59.500"W X 91.000"L X 12.000"H ALONG WIDTH, RIGHT INSULATED.
2	#2	RTU-2(FOH)	52 LBS	CURB	49.500"W X 75.000"L X 12.000"H ALONG WIDTH, RIGHT INSULATED.



REVISIONS

DESCRIPTION	DATE

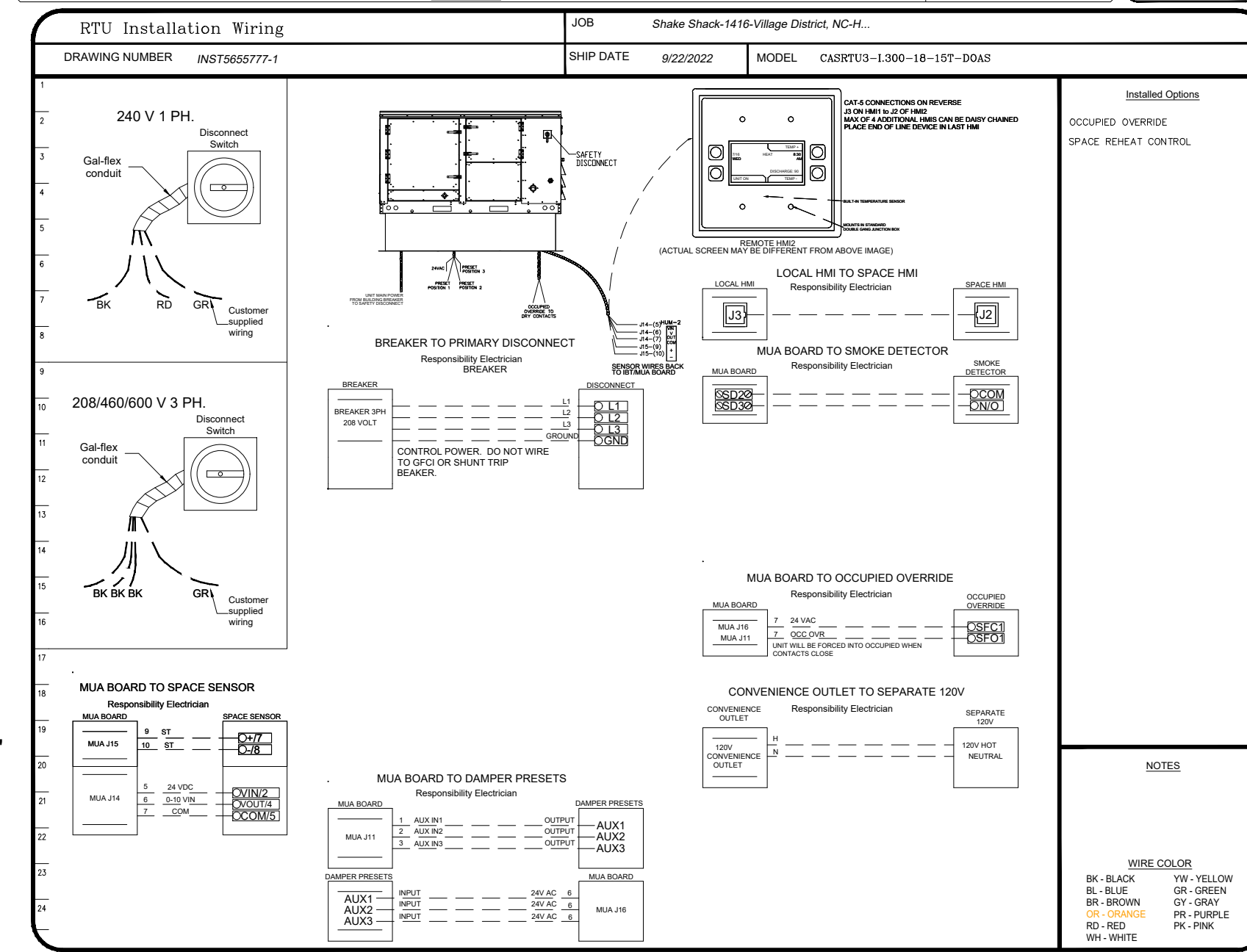
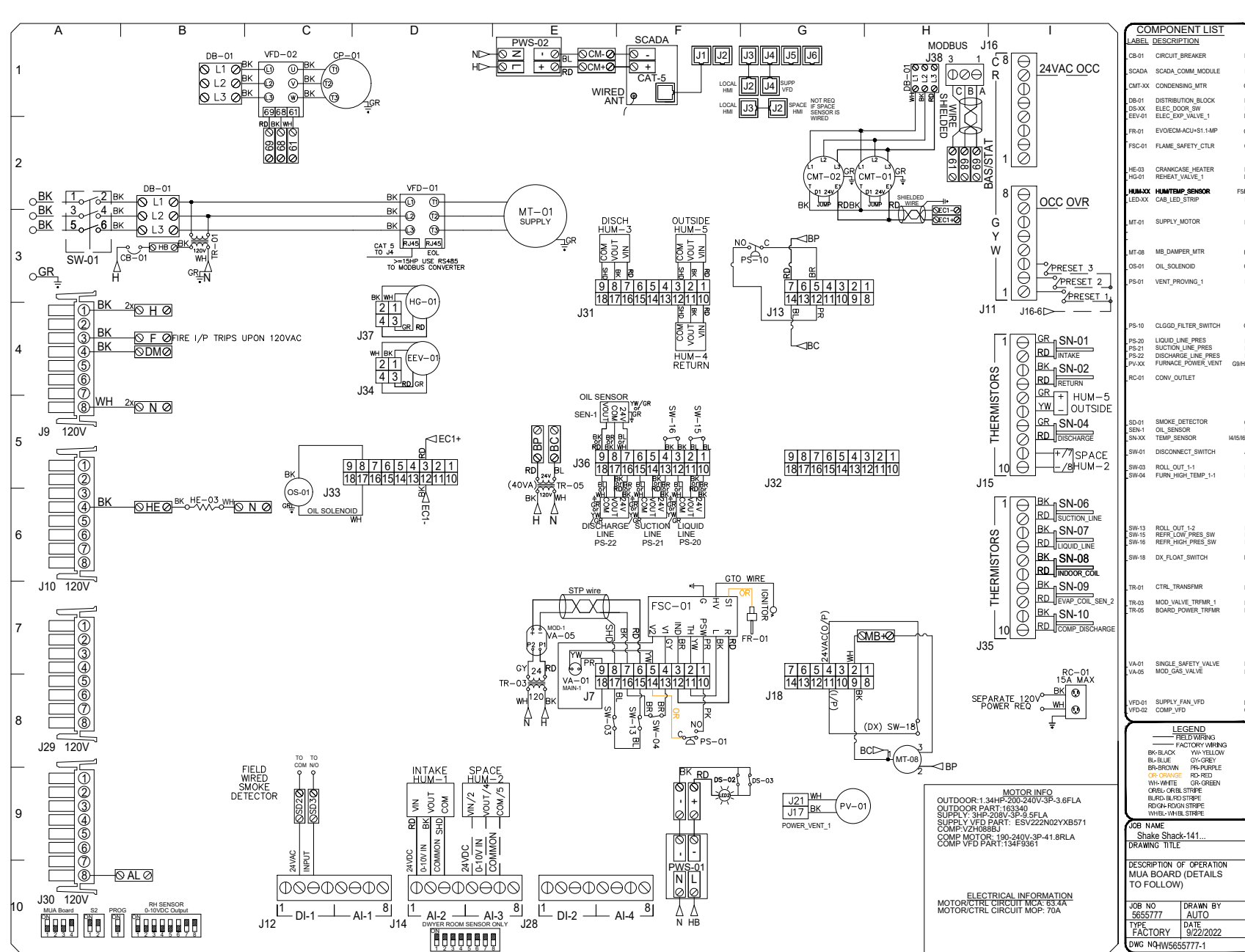
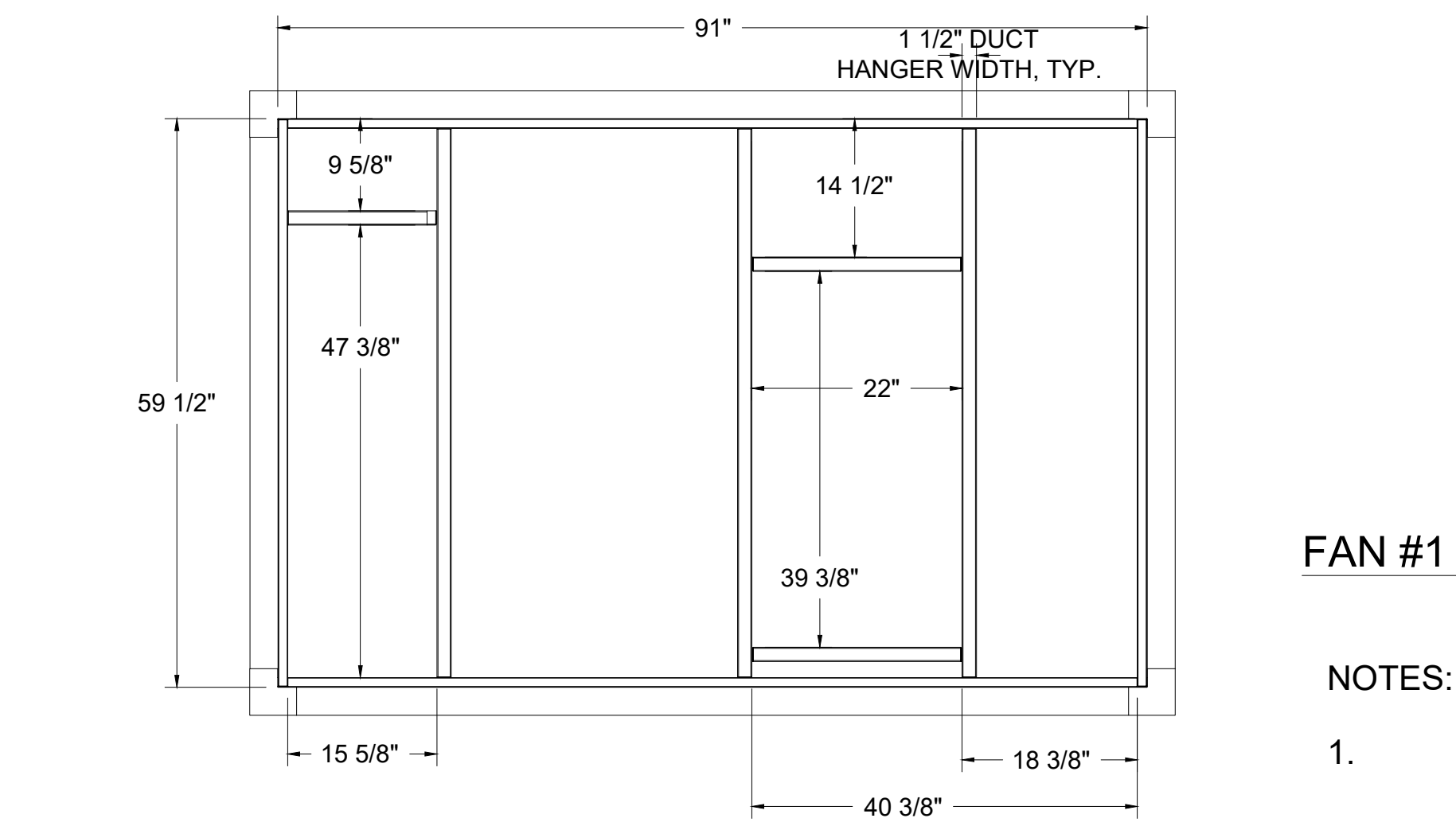
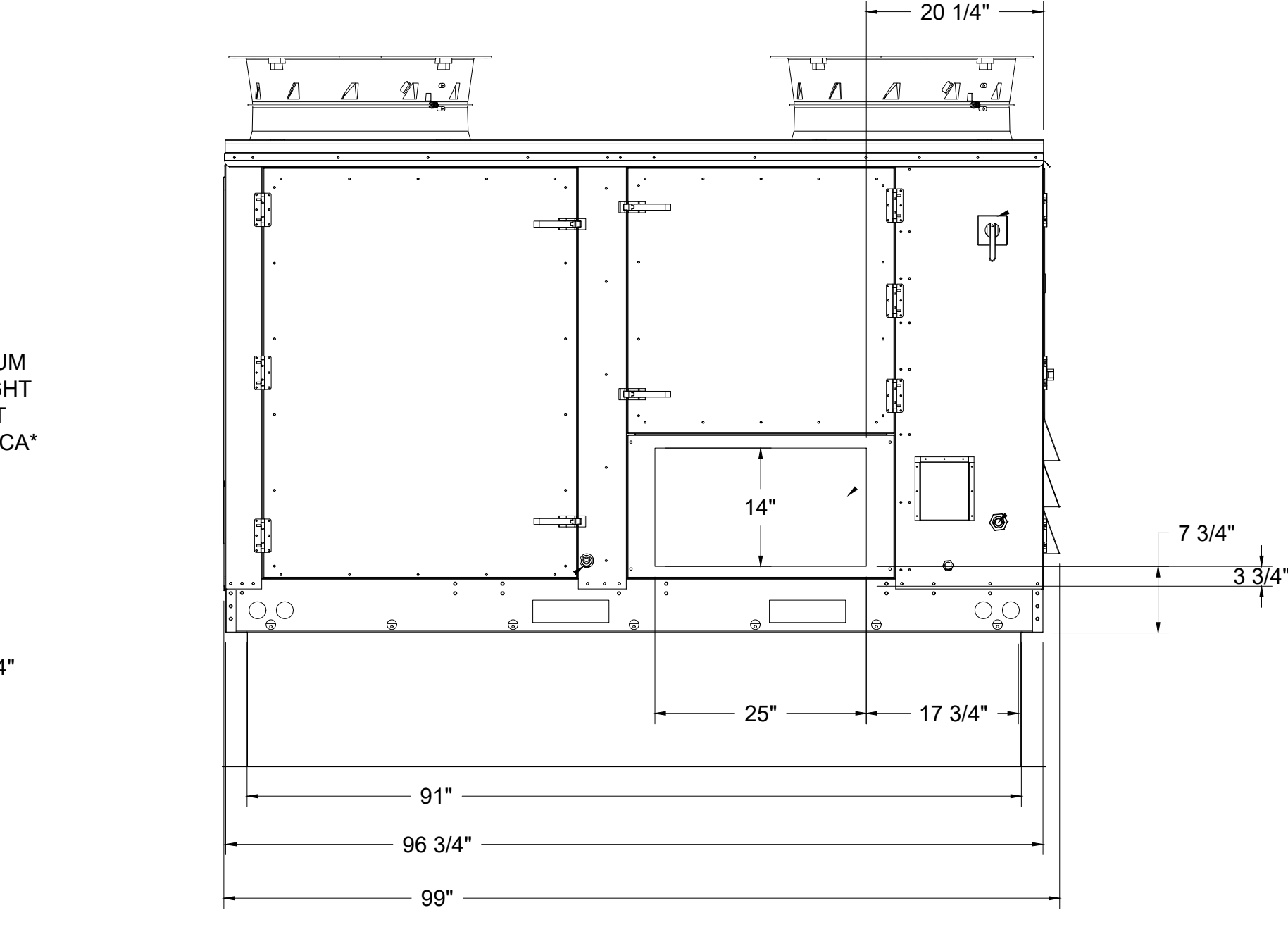
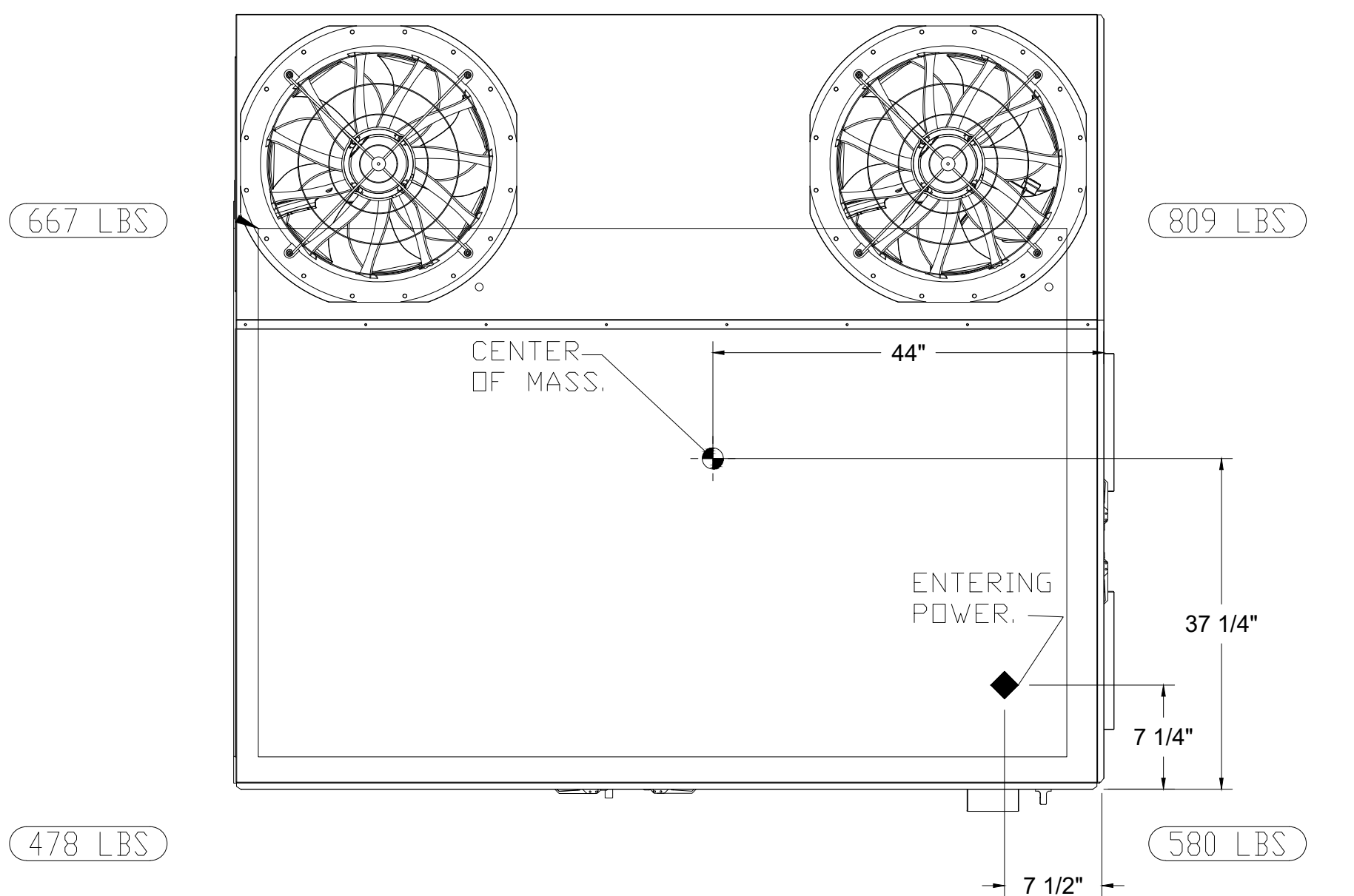
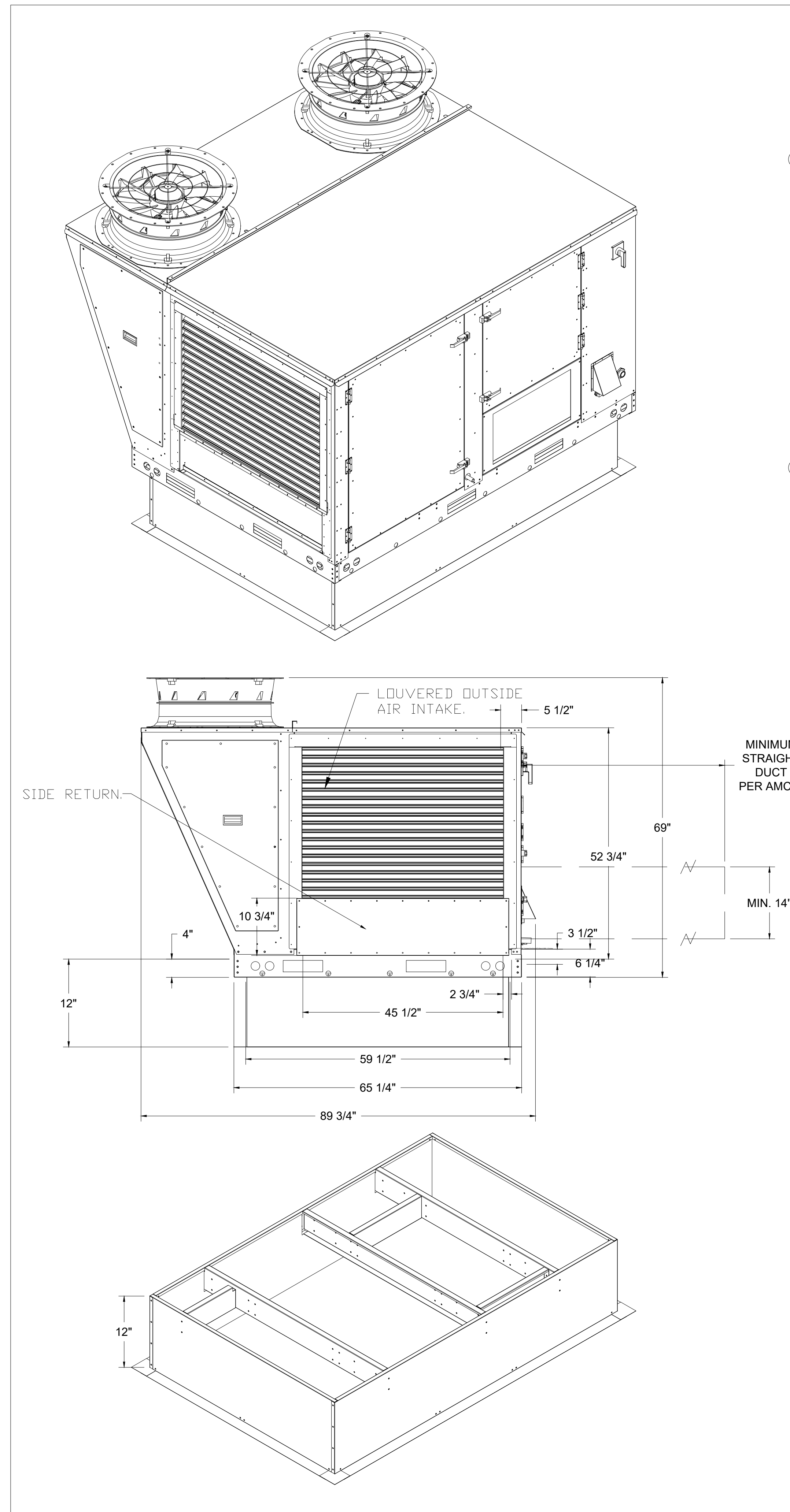
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Shake Shack-1416-Village District, NC-HVAC R3
RALEIGH, NC, 27605

DATE: 9/22/2022
DWG.#: 5655777
DRAWN BY: joe.shiba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

1/19/2023 3:54:49 PM BM:3010665.6575.000 - Shake Shack, NC 1416 - Village District/065.6575.000 - SS NC 1416 - Village District.rvt



FAN #1 CASRTU3-I.300-18-15T-DOAS - HEATER (RTU-1(BOH))

- 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.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR BID AND PERMIT	10/14/2022
2	ADDENDUM 1	11/18/2022
3	ADDENDUM 3	02/03/2023
4	ADDENDUM 4	03/10/2023
5	ADDENDUM 5	03/31/2023

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Shake Shack-1416-Village District, NC-HVAC R3
RALEIGH, NC, 27605

DATE: 9/22/2022
DWG.#: 5655777
DRAWN BY: Joe Shiiba
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2

Date	Description
10/14/2022	ISSUED FOR BID AND PERMIT
11/18/2022	ADDENDUM 1
02/03/2023	ADDENDUM 3
03/10/2023	ADDENDUM 4
03/31/2023	ADDENDUM 5



Seal / Signature

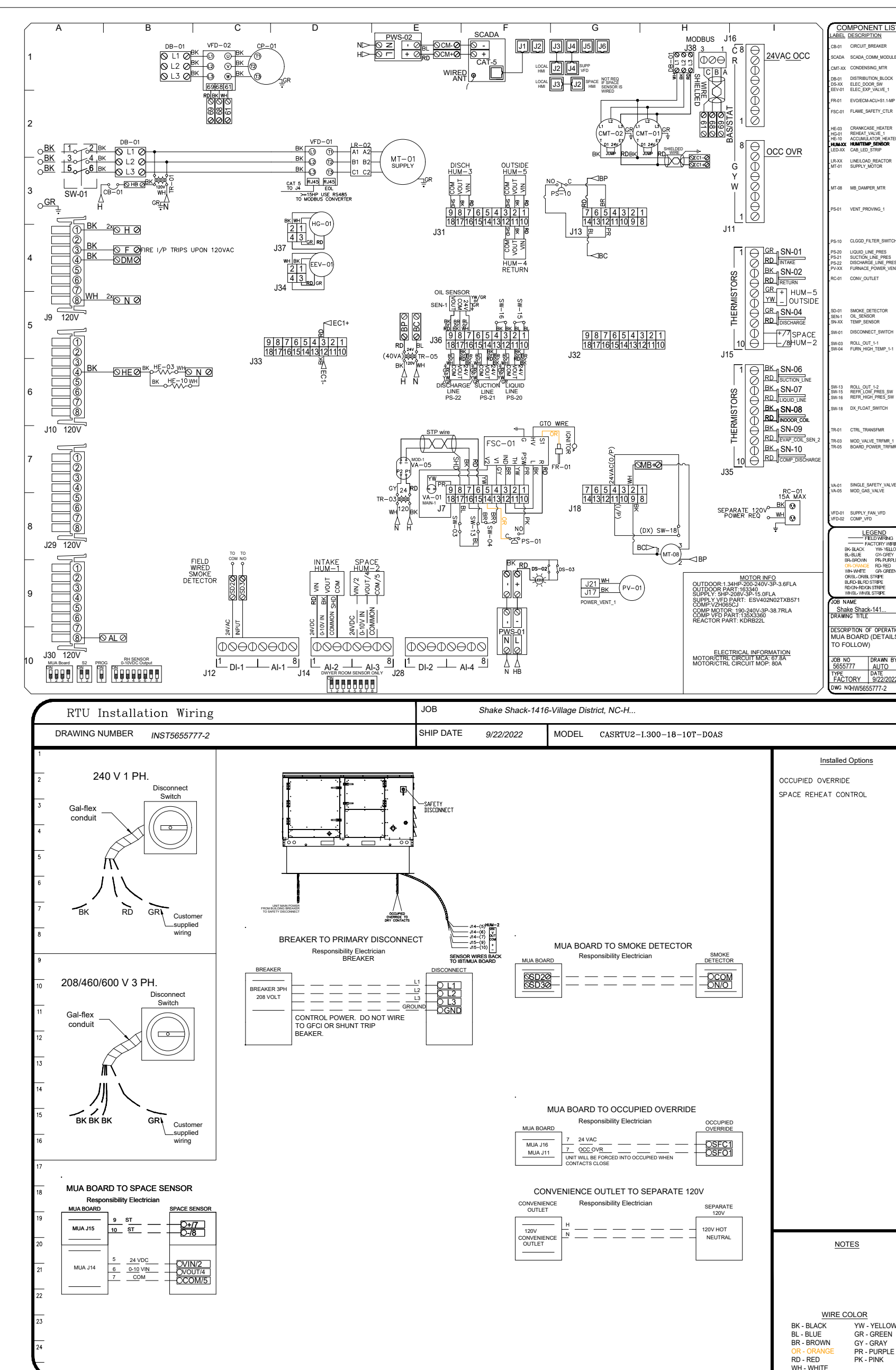
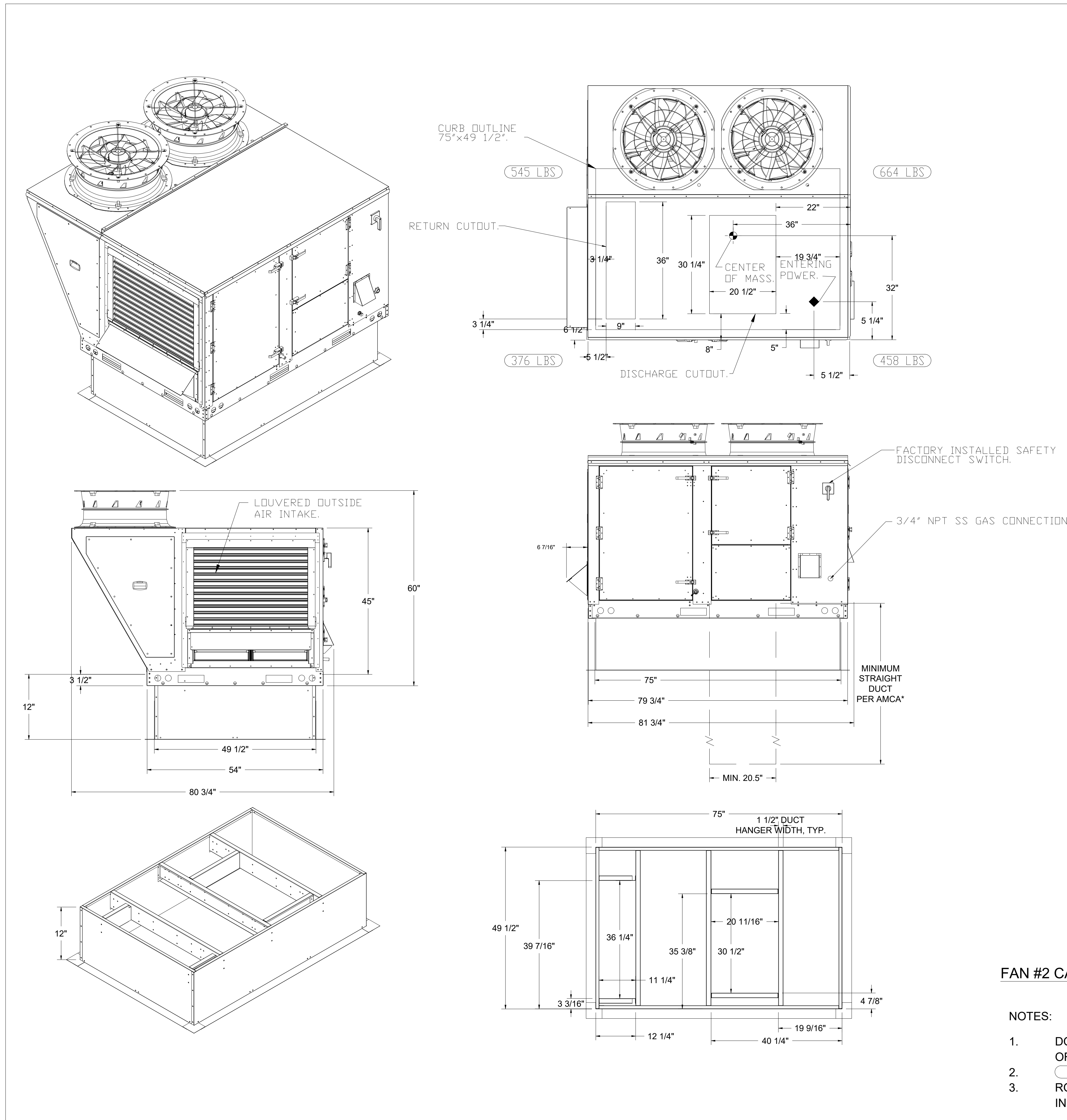
Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

Description
CAPTIVE AIRE DRAWING

Scale
AS INDICATED

M-705



FAN #2 CASRTU2-I.300-18MF-10T-DOAS - HEATER (RTU-2(FOH))

- 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.

REVISIONS

NO.	DESCRIPTION	DATE

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Shake Shack-1416-Village District, NC-HVAC R3
RALEIGH, NC, 27605

DATE: 9/22/2022
DWG.#: 5655777
DRAWN BY: joe.shiiba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 3

Date	Description
10/14/2022	ISSUED FOR BID AND PERMIT
11/18/2022	ADDENDUM 1
02/03/2023	ADDENDUM 3
03/10/2023	ADDENDUM 4
03/31/2023	ADDENDUM 5



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Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

Description
CAPTIVE AIRE DRAWING

Scale
NONE

M-706



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NC 27603
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FAX 919.839.9164

Date	Description
10/14/2022	ISSUED FOR BID AND PERMIT
11/18/2022	ADDENDUM 1
02/03/2023	ADDENDUM 3
03/10/2023	ADDENDUM 4
03/31/2023	ADDENDUM 5



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Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

Description
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Scale
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EXHAUST FAN INFORMATION - JOB#5891476

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	USB20DD-RM	CAPTIVEAIRE	2727	1.500	1134	TEFC,PREMIUM	3.000	1.1700	3	208	9.4	1188 FPM	453	21

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	B120 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	B120 - 24" DISCHARGE EXTENSION
		1	B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B120 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT
		1	UTILITY SET - SPRING VIBRATION ISOLATORS - B120 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE
		1	2 YEAR PARTS WARRANTY

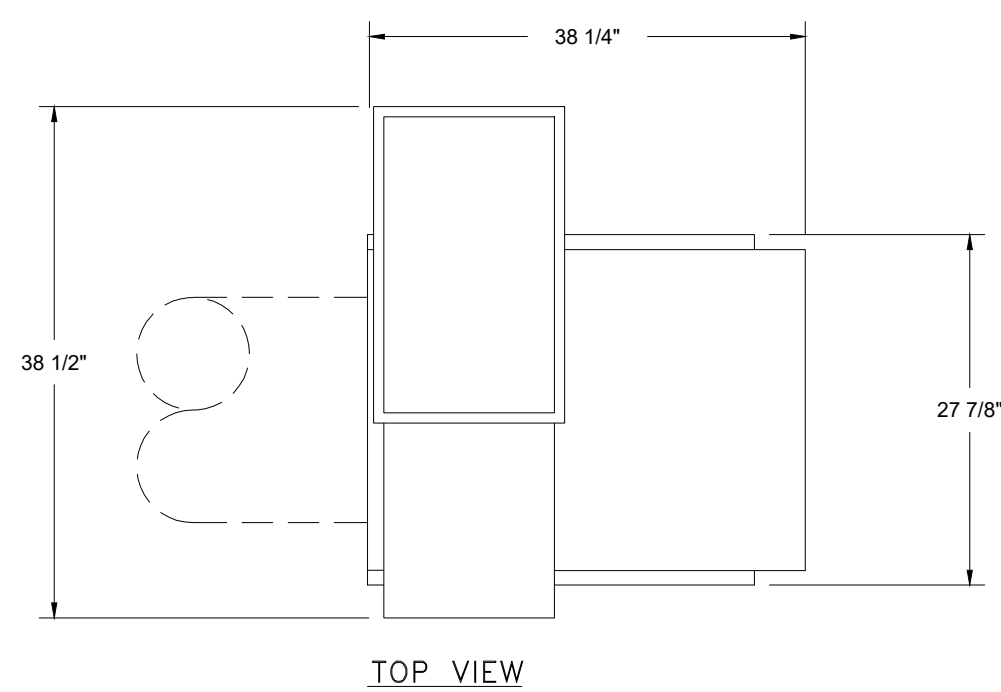
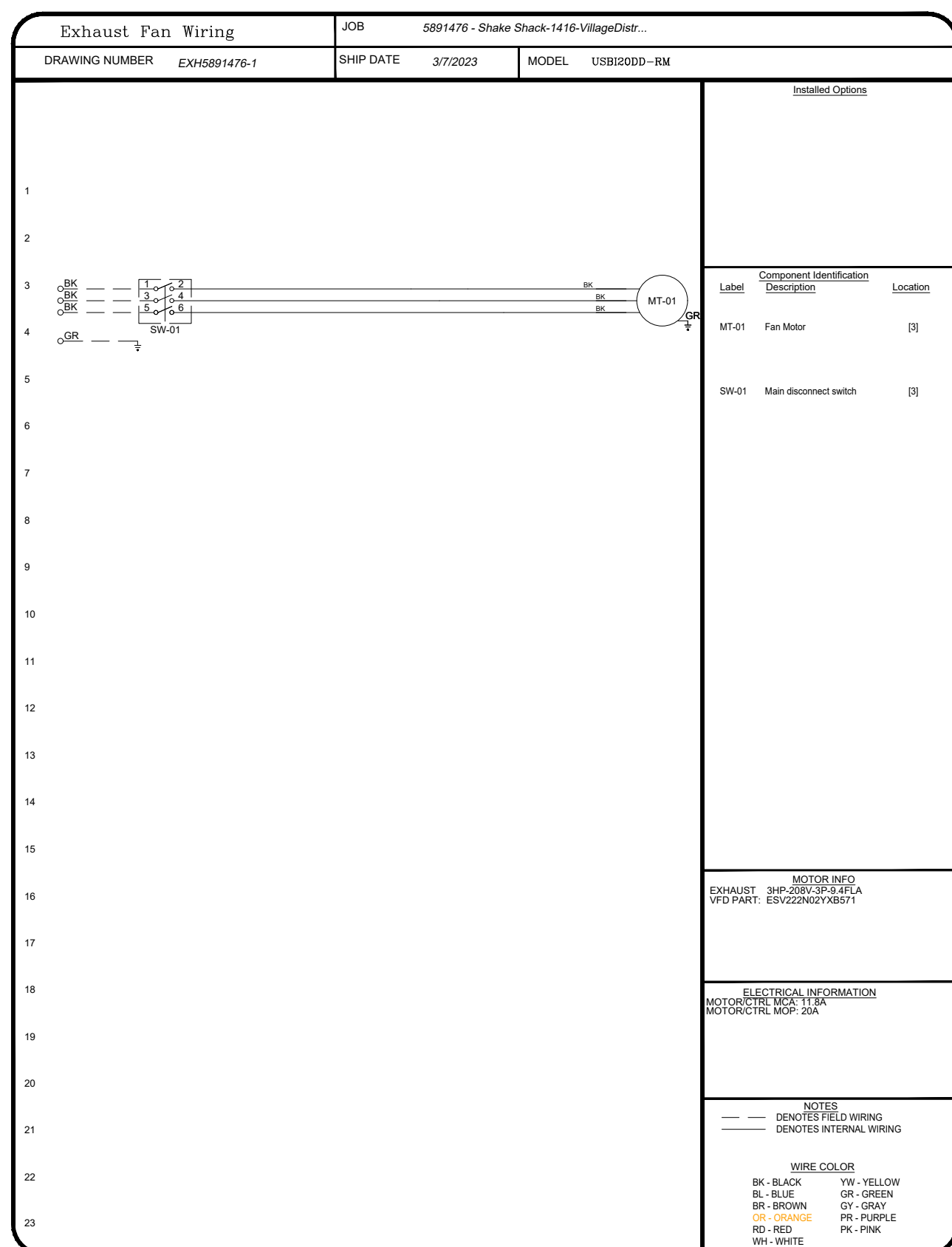
FAN #1 USB20DD-RM - EXHAUST FAN (KEF-1)

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST	SUPPLY
		GREASE CUP	GRAVITY DAMPER
1	KEF-1	YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	KEF-1	48 LBS	RAIL	4.000"W X 48.000"L X 12.000"H ALONG WIDTH. RIGHT COMES AS A SET OF 2.

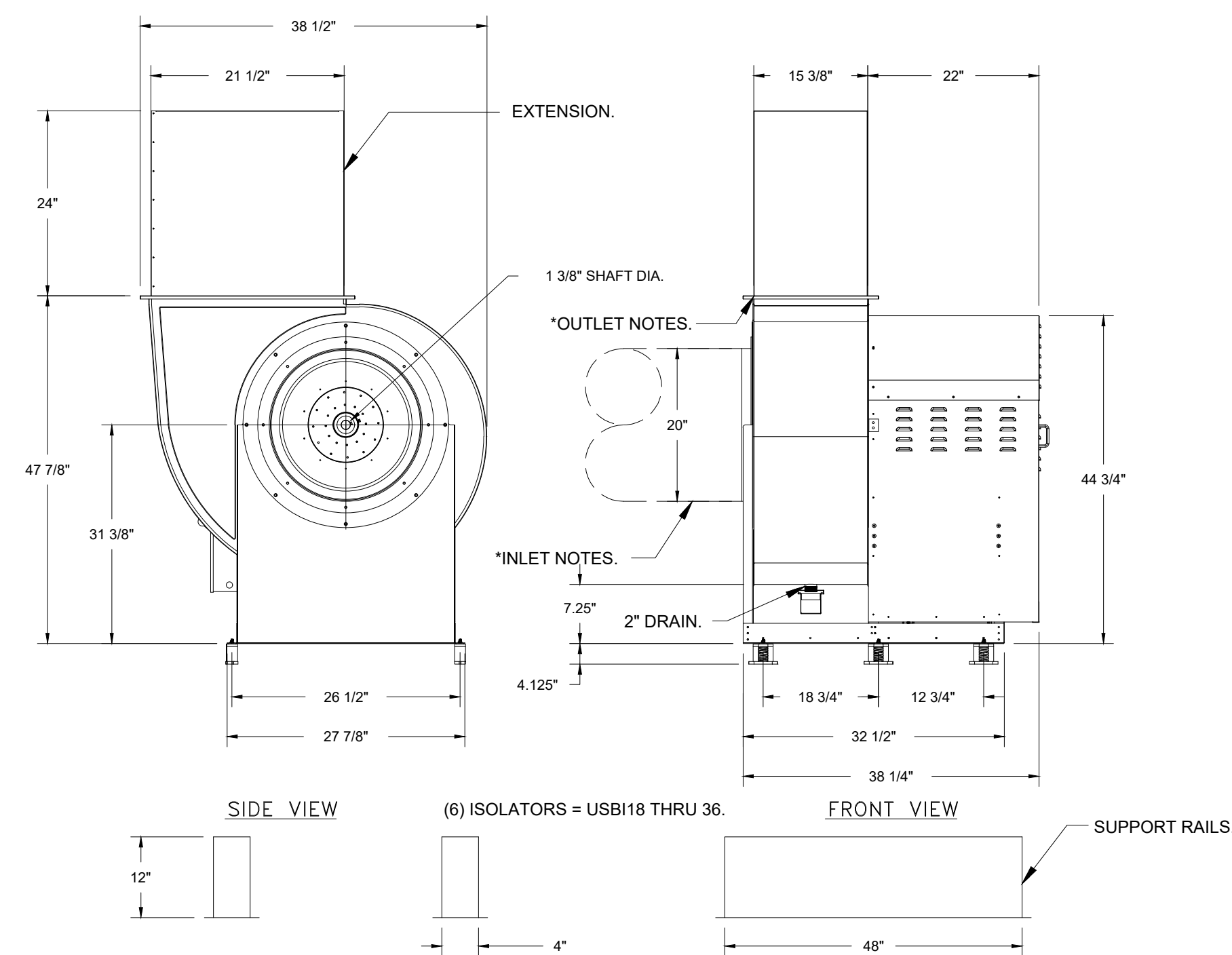


FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL782 AND UL-C-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4"

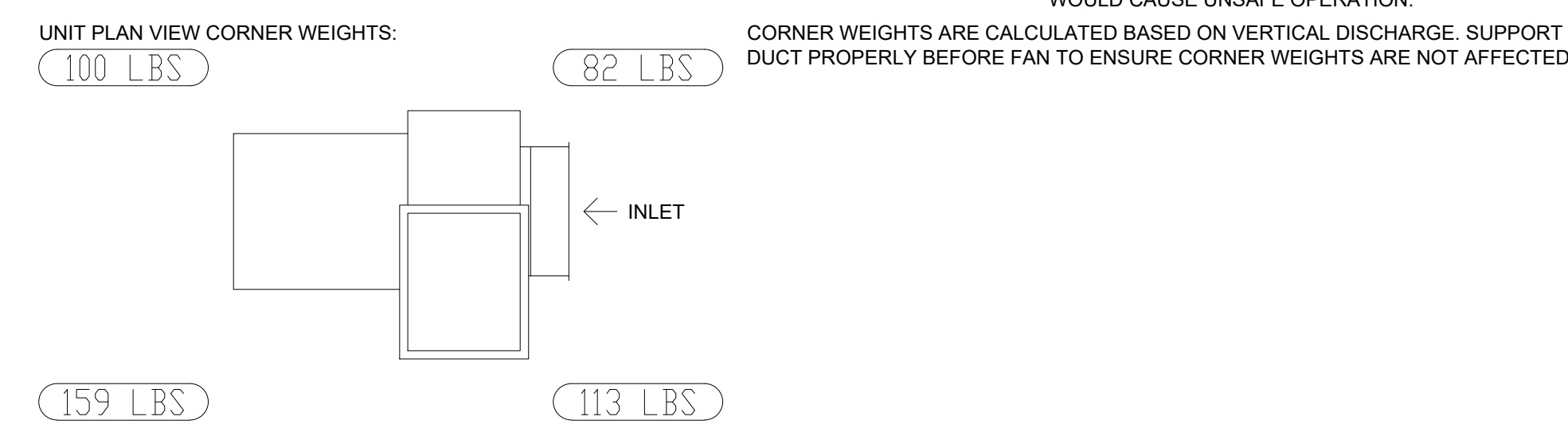
OPTIONS

- B120 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- B120 - 24" DISCHARGE EXTENSION.
- B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- B120 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
- UTILITY SET - SPRING VIBRATION ISOLATORS - B120 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.



* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.



REVISIONS

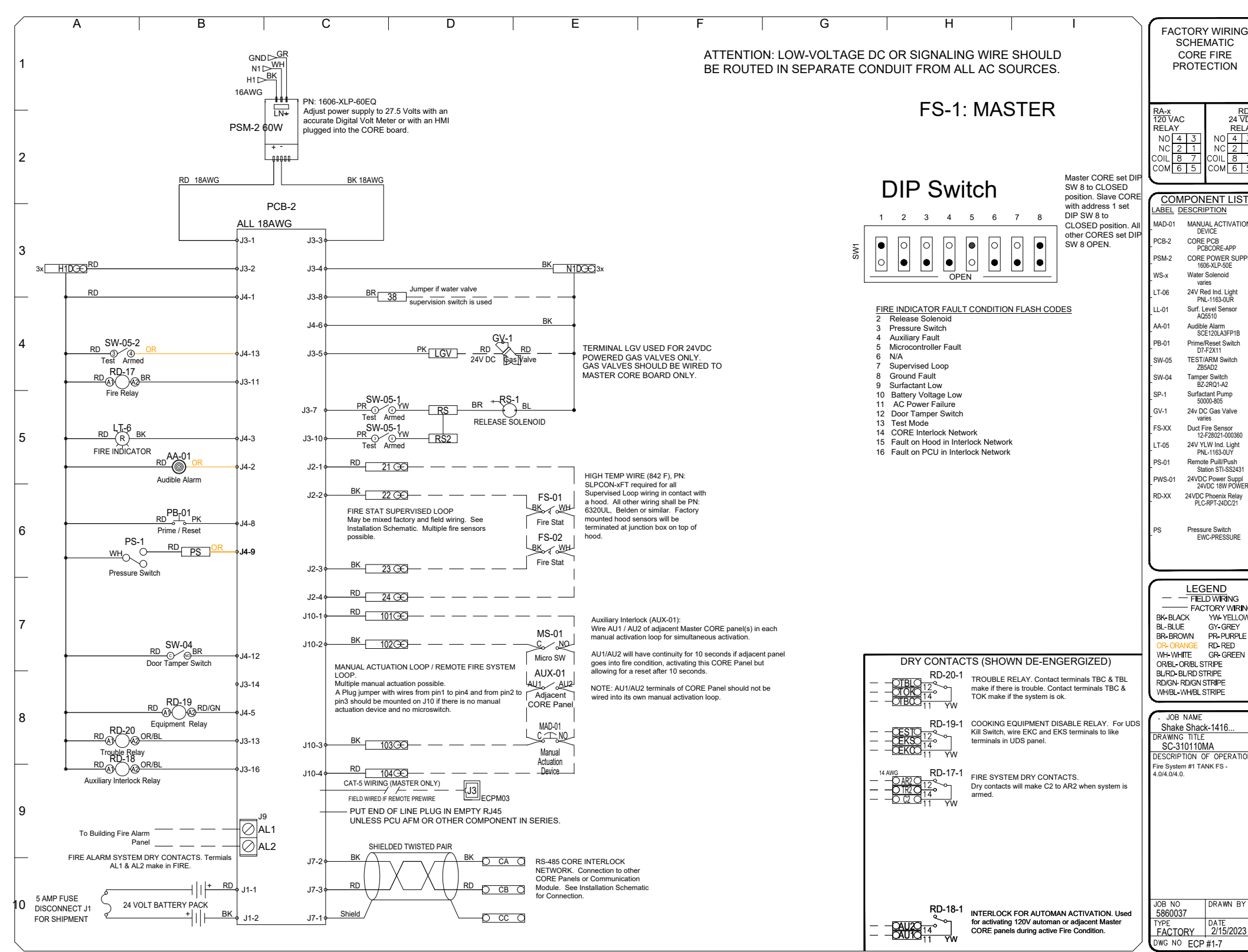
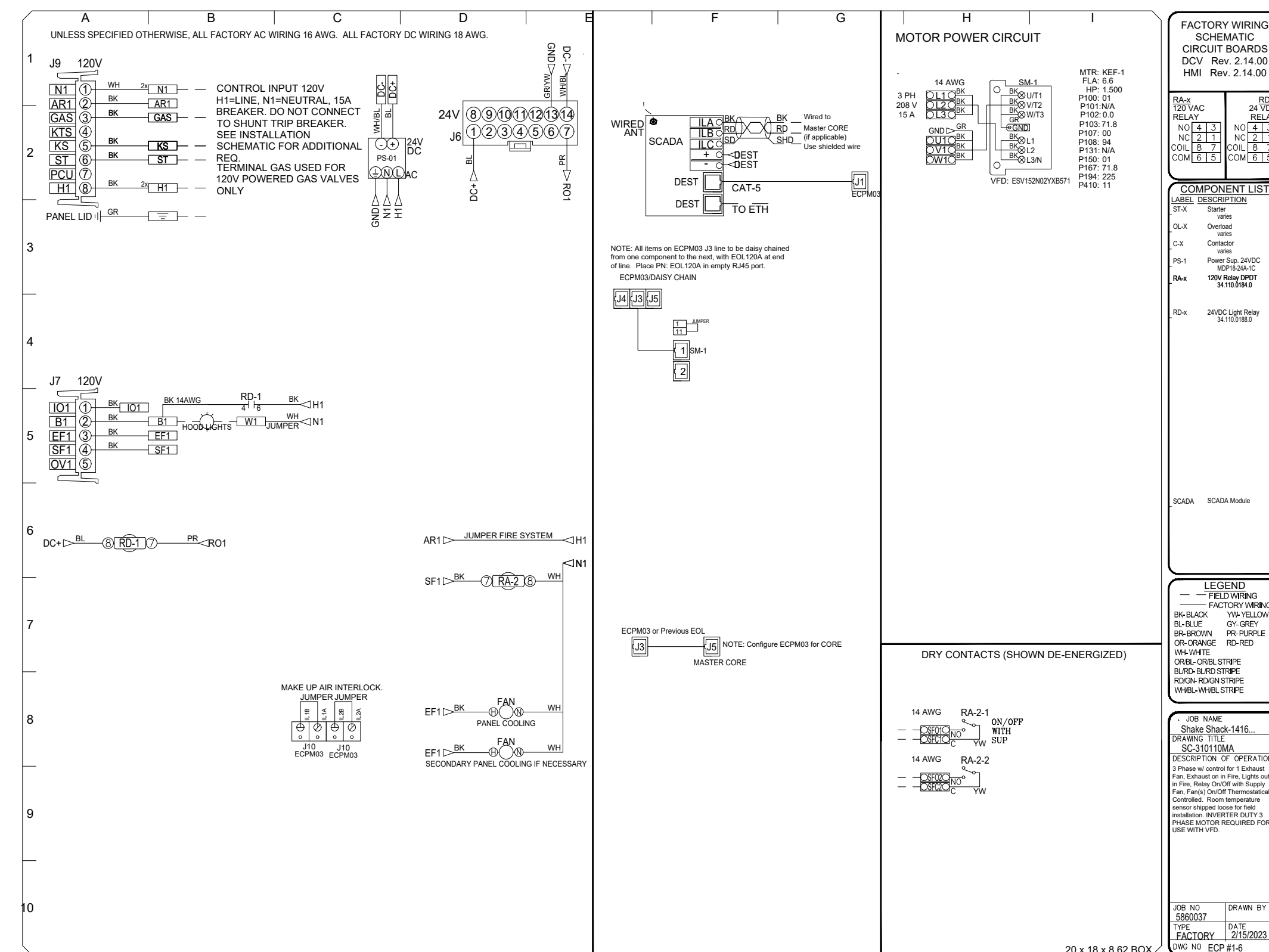
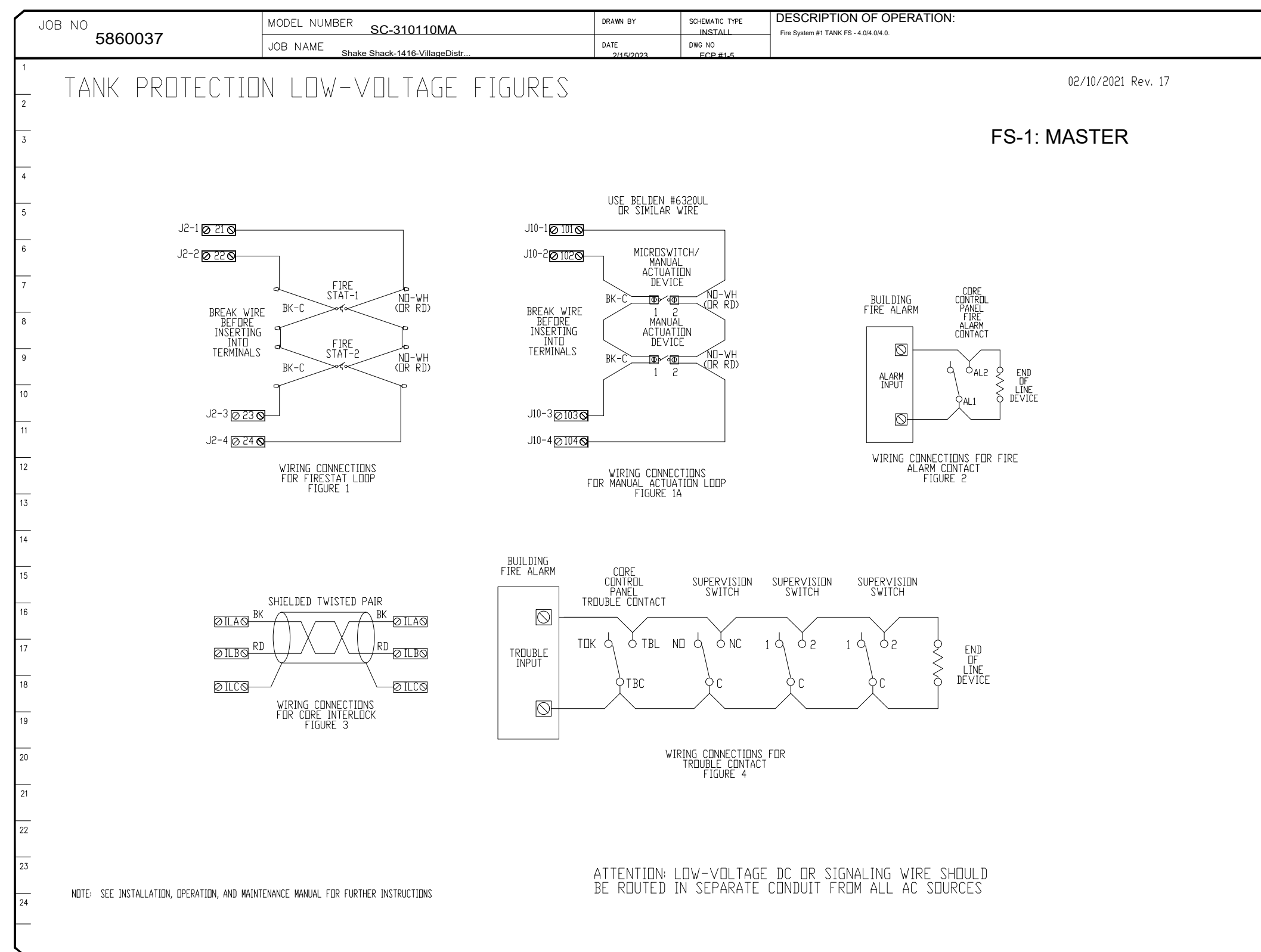
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Shake Shack-1416-VillageDistrict, NC-Kitchen-R6
RALEIGH, NC, 27605

DATE: 3/7/2023
DWG.#: 5891476
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10		

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Shake Shack-1416-VillageDistrict, NC-Kitchen-R5
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DATE: 2/15/2023
DWG.#: 5860037
DRAWN BY: joe.shiiba
SCALE: 3/4" = 1'-0"
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 6

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 NC 27603
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Date	Description
10/14/2022	ISSUED FOR BID AND PERMIT
11/18/2022	ADDENDUM 1
02/03/2023	ADDENDUM 3
03/10/2023	ADDENDUM 4
03/31/2023	ADDENDUM 5

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Project Name
VILLAGE DISTRICT

Project Number
69.6575.000

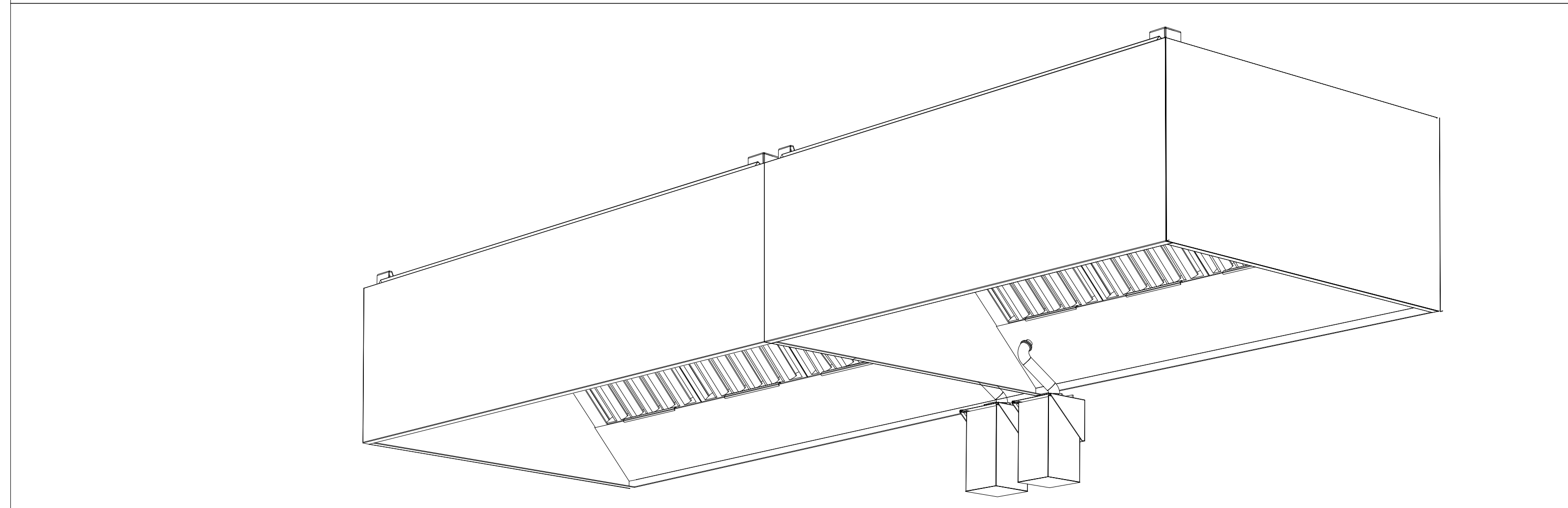
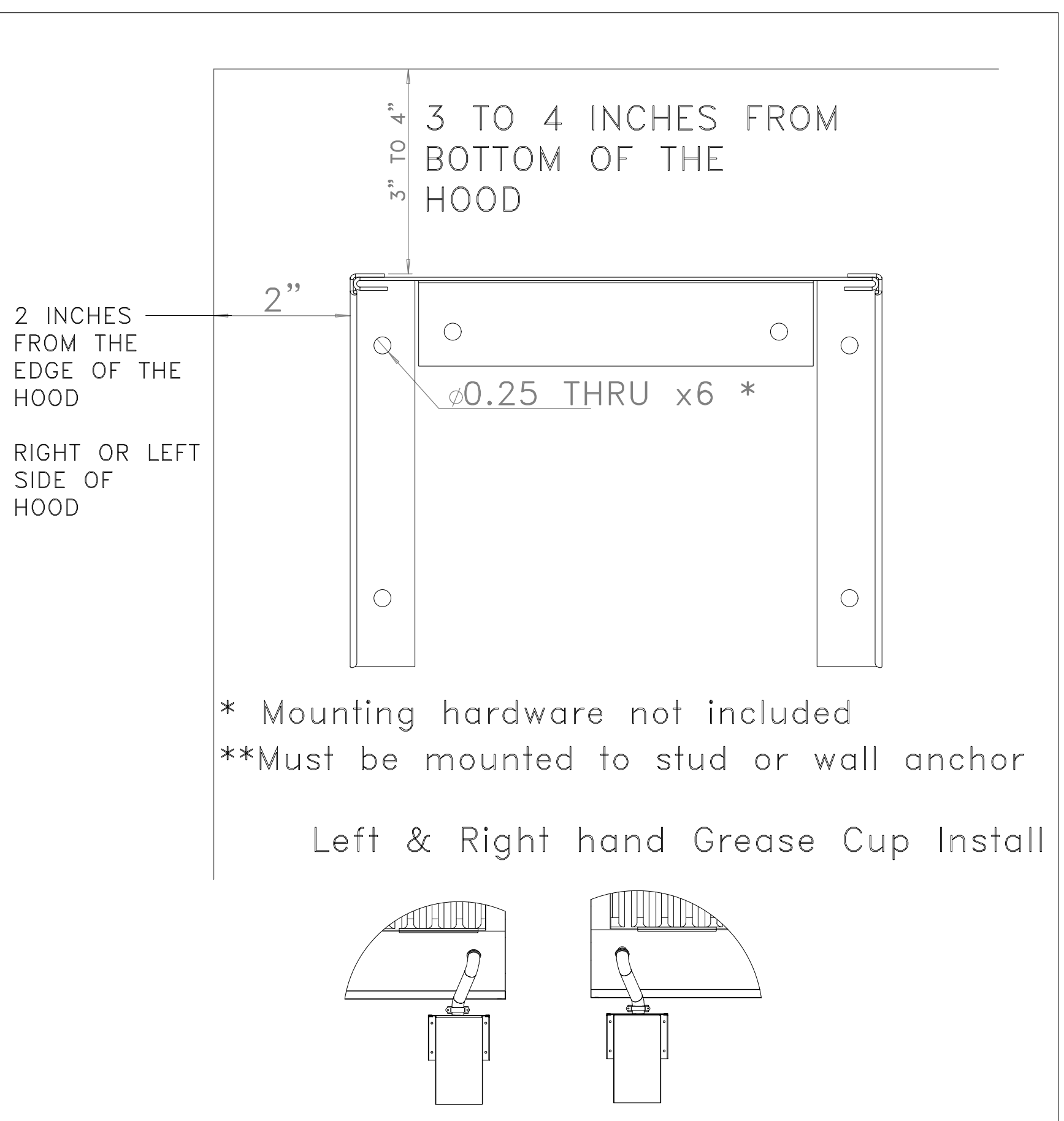
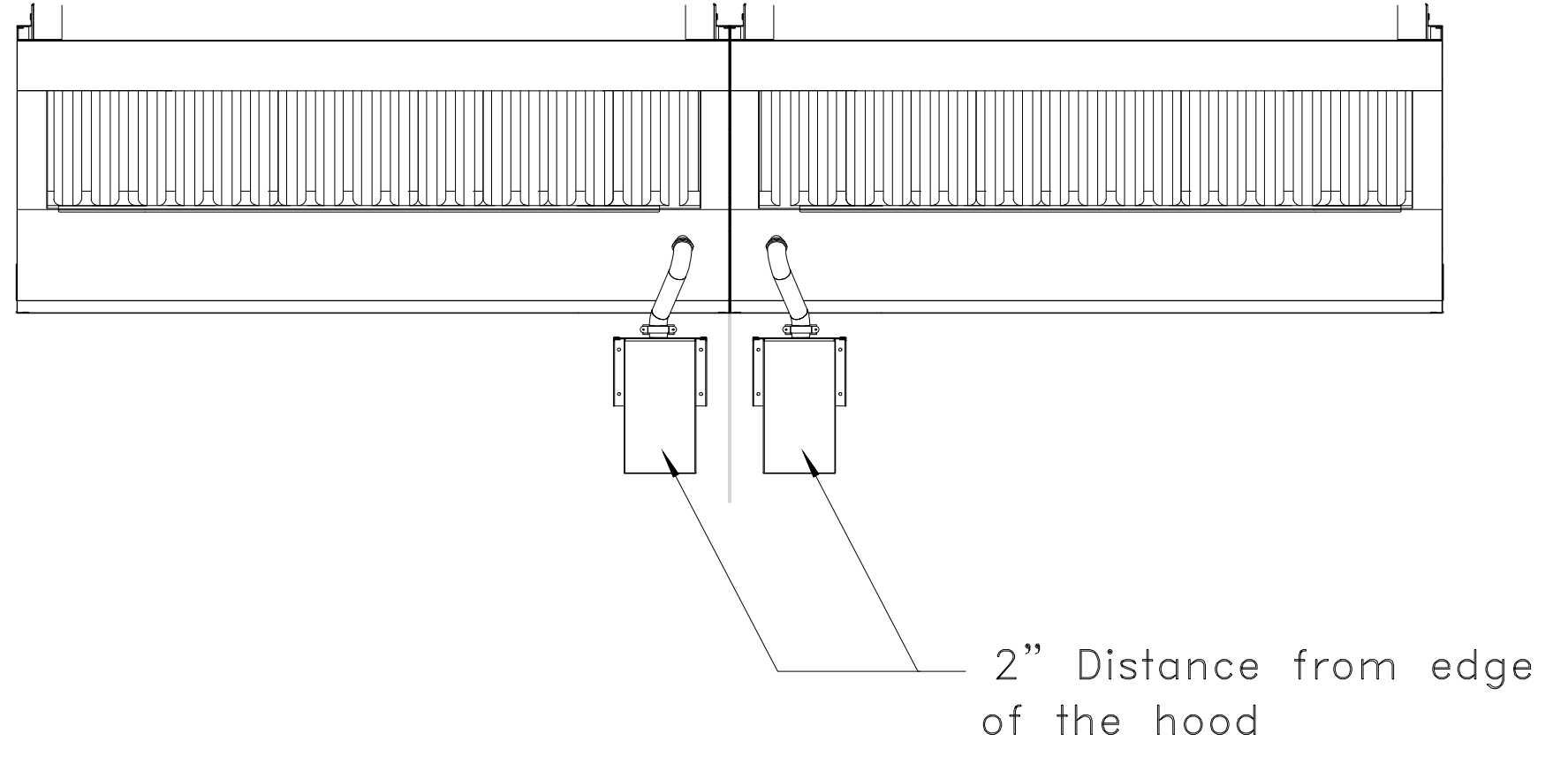
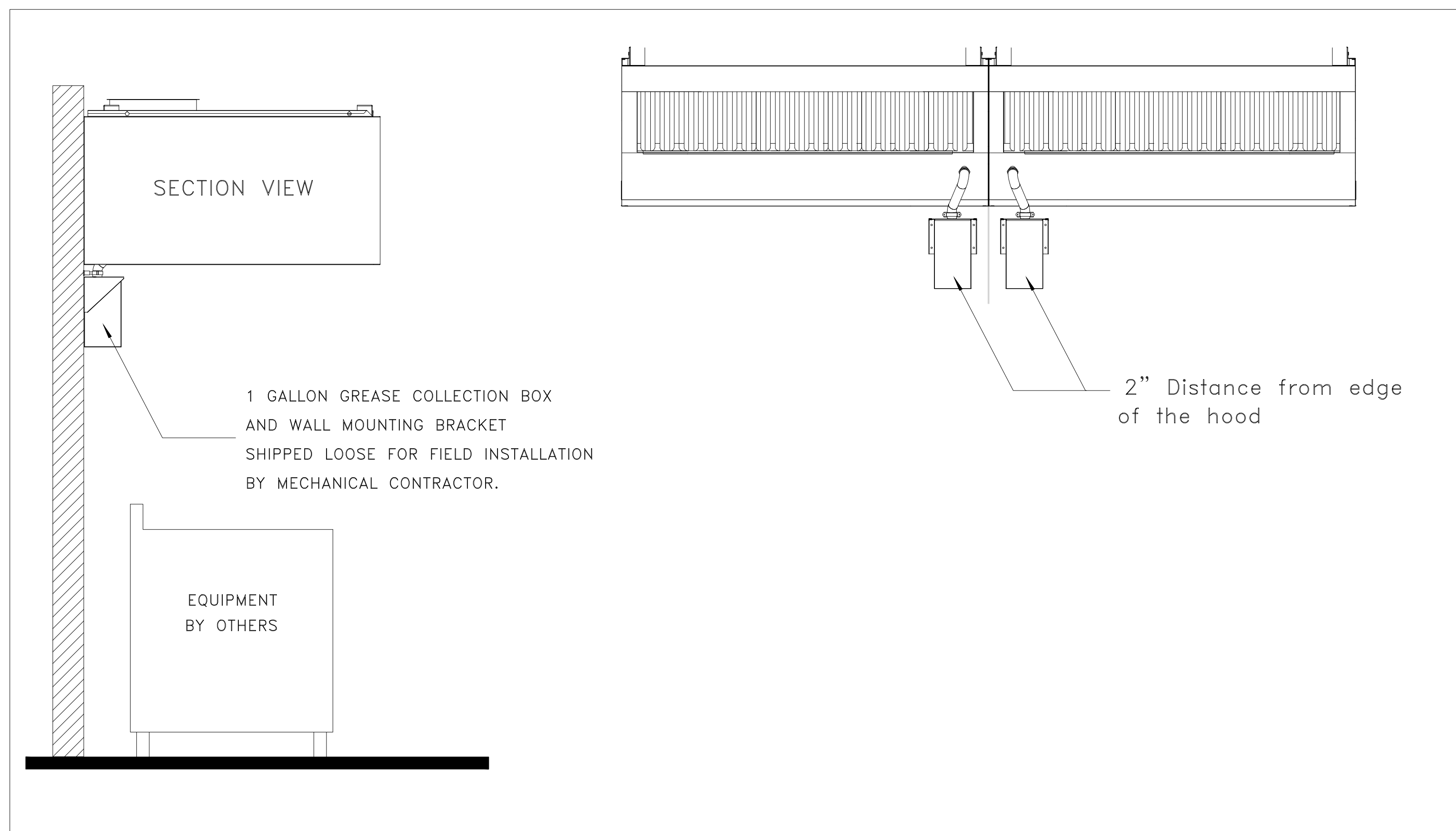
Description
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Scale
 NONE

M-709

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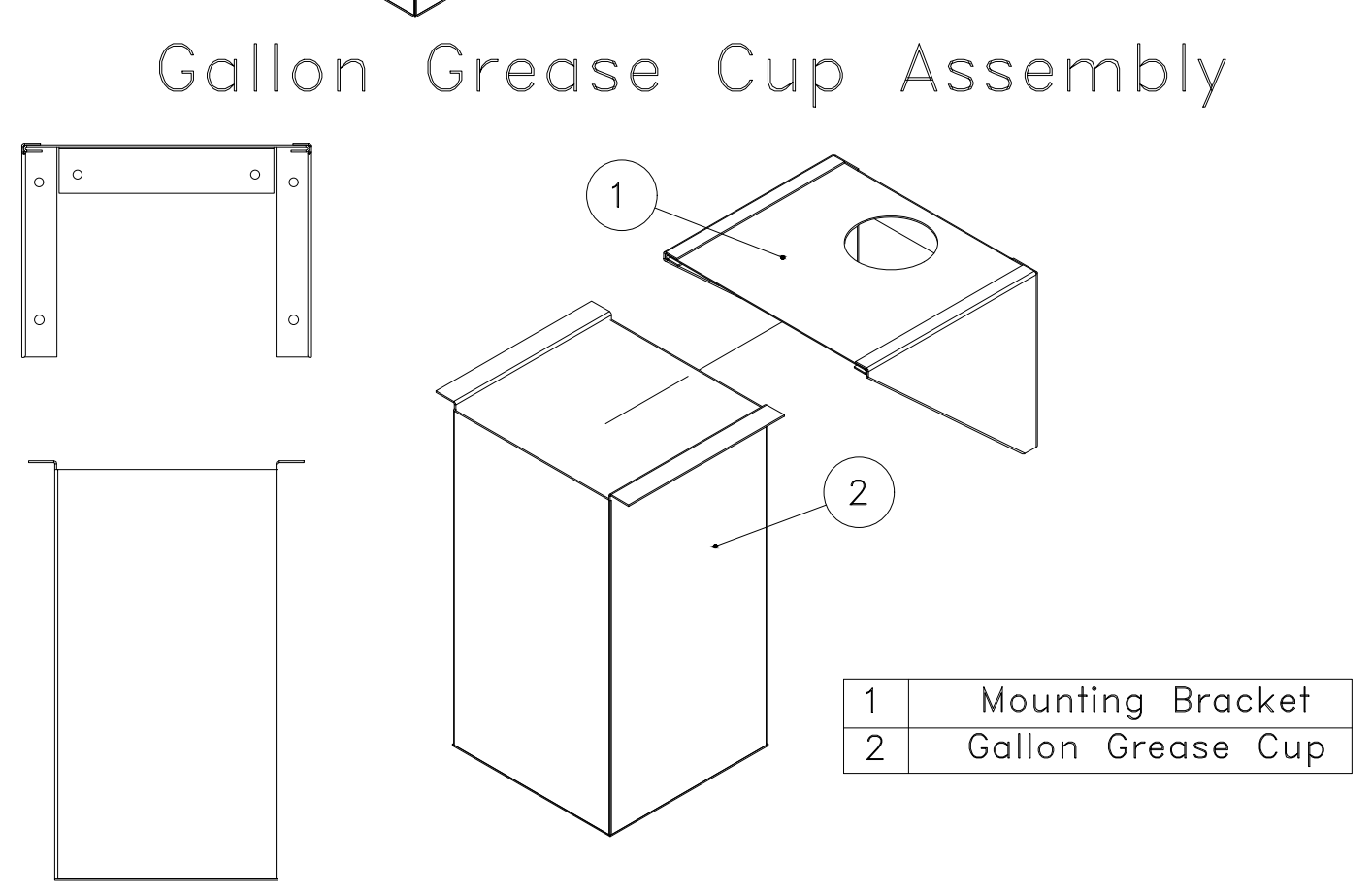
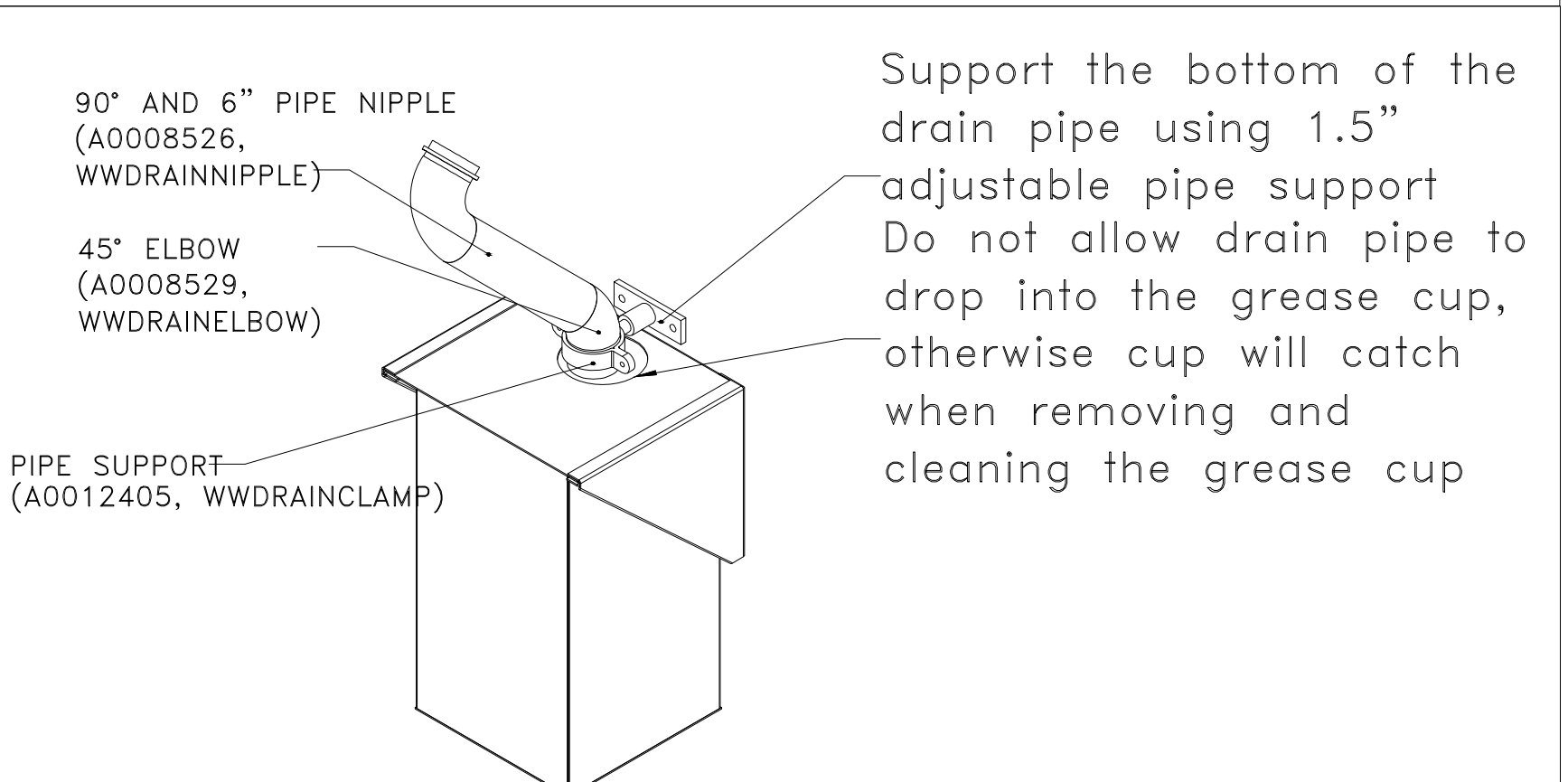


One Gallon Grease Cup Installation

Instructions below outline single, or dual, one gallon grease cup installation for ND-2 hood models.

The one gallon grease cup comes as an assembly of stainless steel wall mounting bracket and one gallon cup. The mounting bracket should be installed 2" from the edge of the containment plenum and 3"-4" below the bottom of the hood.

Piping from the hood grease drain should route to the opening of the grease cup, but not into the cup, otherwise the cup will not be able to be removed and emptied.



REVISIONS	
DESCRIPTION	DATE

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Shake Shack-1416-VillageDistrict, NC-Kitchen-R5
RALEIGH, NC, 27605

DATE: 2/15/2023
DWG.#: 5860037
DRAWN BY: joe.shilba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
7

SHAKE SHACK
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Date	Description
10/14/2022	ISSUED FOR BID AND PERMIT
1 11/18/2022	ADDENDUM 1
3 02/03/2023	ADDENDUM 3
4 03/10/2023	ADDENDUM 4
5 03/31/2023	ADDENDUM 5



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Project Name
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Project Number
69.6575.000

Description
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M-710