

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

HANGING ANGLE DETAILS

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 SMD-2	228	294	-
ISLAND ND-2WI	269	300	350
ISLAND ND-2I	346	422	475

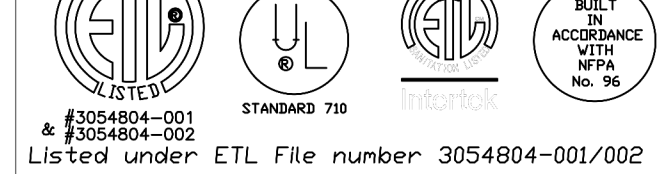
ETL HOOD LISTING DETAIL

EXHAUST CFM = LENGTH OF HOOD X CFM/UNIT. (LOAD)
SUPPLY CFM = EXHAUST CFM X PERCENTAGE REQUIRED
TOTAL DUCT AREA (sq. in.) = 144 X CFM² / (FMPC)
DUCT LENGTH = TOTAL DUCT AREA / DUCT WIDTH

*CAPTIVEAIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1000-1000 FPM AND A SUPPLY VELOCITY OF 3000 FPM

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS BUILT IN COMPLIANCE WITH



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

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 LOCKED AND HELD AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVEAIRE HOOD PER MECHANICAL CONTRACTOR'S PLANS.
5. COOKING EQUIPMENT TO SHUT OFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHT FIXTURES SHOWN INSTALLED BY CAPTIVEAIRE ARE FACTORY FINISHED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES ARE BY ELECTRICAL CONTRACTOR.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SOUND RESISTANCE ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY. INSTALLATION AND COMPLETION OF HOODS REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

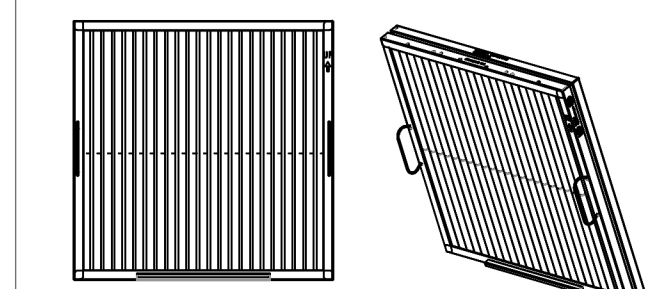
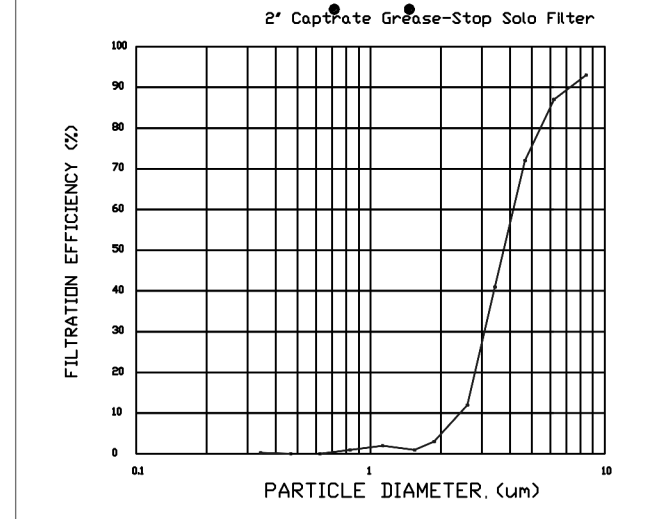
11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN TO DINING AREA.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

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

GENERAL NOTES

FILTER COLLECTION EFFICIENCY



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

FILTER DETAIL

HOOD INFORMATION - JOB#5356114

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA				CFM	VEL	SP
1	Hood Left	5430 ND-2-ACPSP-F	CAPTIVEAIRE	11' 2"	600 DEG	I	HEAVY	175	1954	10'	18'	4'	1954	1563	-0.615'	1563	430 SS WHERE EXPOSED	LEFT	ALDNE
2	Hood Right	5430 ND-2-ACPSP-F	CAPTIVEAIRE	11' 2"	600 DEG	I	HEAVY	175	1954	10'	18'	4'	1954	1563	-0.615'	1563	430 SS WHERE EXPOSED	RIGHT	ALDNE

HOOD INFORMATION

HOOD NO	TAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
												FIRE SYSTEM	ELECTRICAL	SWITCHES		
1	Hood Left	CAPTRATE SOLD FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO						YES	699 LBS
2	Hood Right	CAPTRATE SOLD FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	WALL MNT	12"x48"x24"	ANSUL R-102	3.0/3.0/3.0/3.0		YES	715 LBS

HOOD OPTIONS

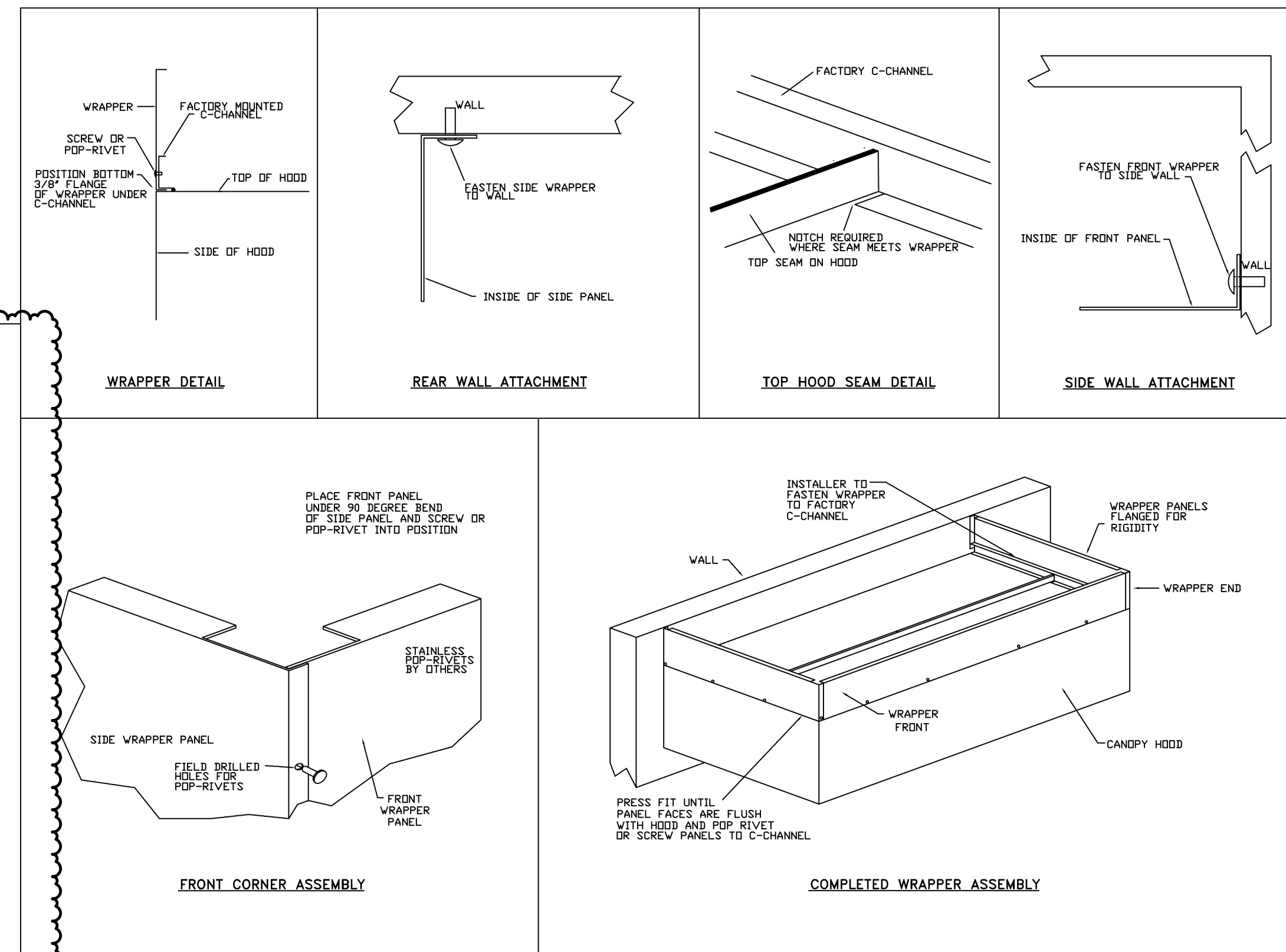
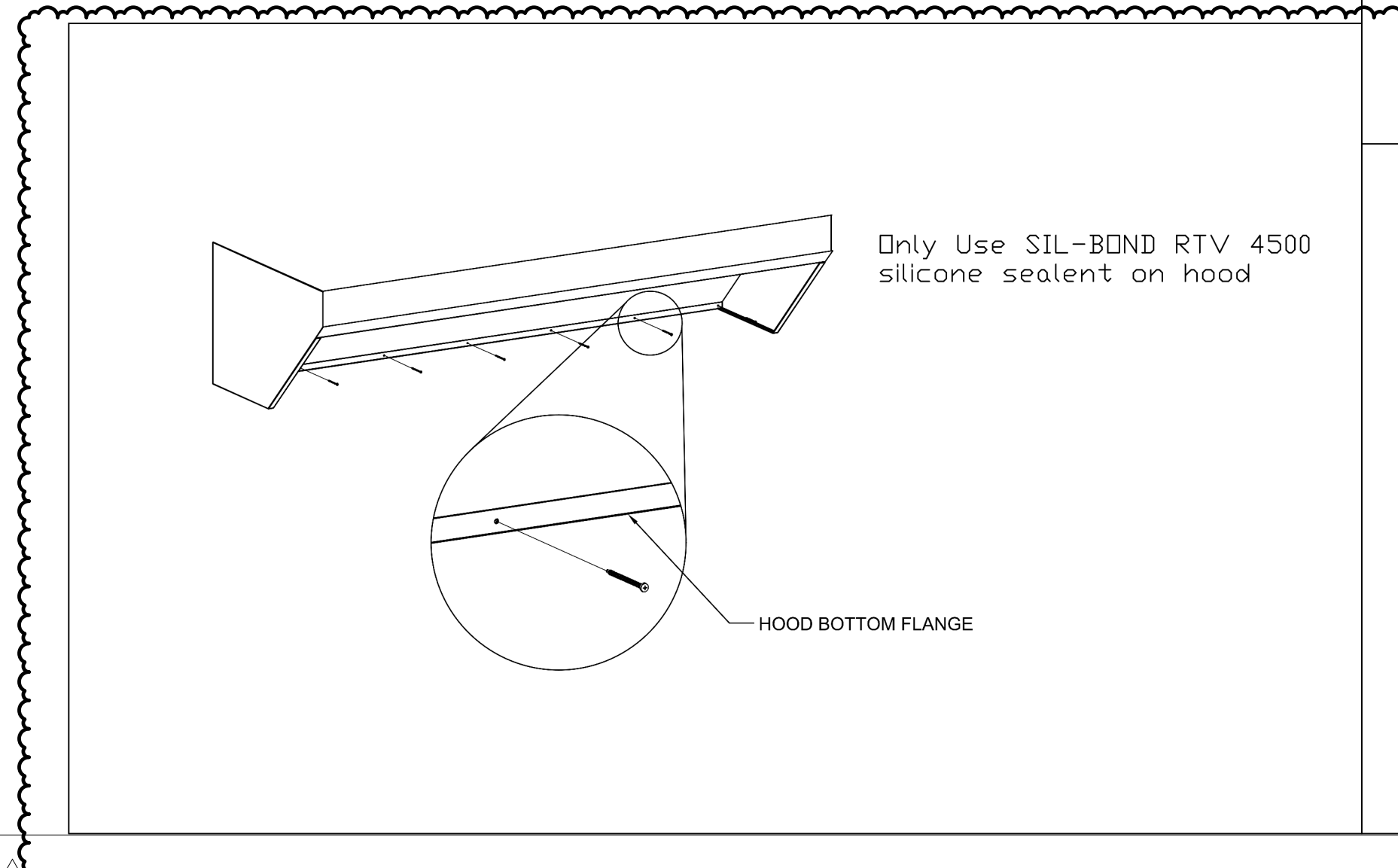
HOOD NO	TAG	OPTION
1	Hood Left	FIELD WRAPPER 18.00" HIGH FRONT. LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED. LEFT WALL AS END PANEL.
2	Hood Right	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT. RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED. RIGHT WALL AS END PANEL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	
1	Hood Left	Front	135'	22'	6'	MJA	10"	24"		521	0.149'
						MJA	10"	24"		521	0.149'
						MJA	10"	24"		521	0.149'
						AC		8"	100	0.032"	
						AC		8"	100	0.032"	
						AC		8"	100	0.032"	
2	Hood Right	Front	135'	22'	6'	MJA	10"	24"		521	0.149'
						MJA	10"	24"		521	0.149'
						MJA	10"	24"		521	0.149'
						AC		8"	100	0.032"	
						AC		8"	100	0.032"	
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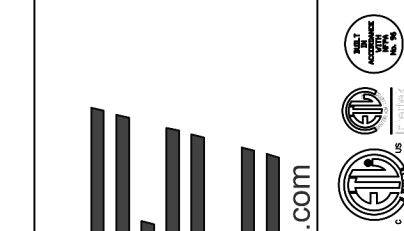
WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES	
2	WALL MNT	12"x48"x24"	ANSUL R-102	3.0/3.0/3.0/3.0		361.00 LBS

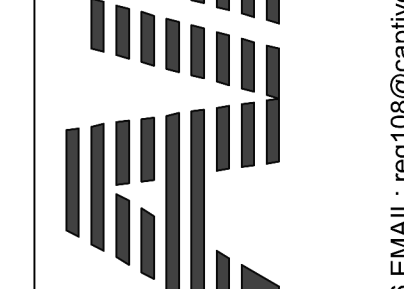


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Shake Shack-1361-Round Rock, TX-R1
ROUND ROCK, TX, 78664

DATE: 3/2/2022
DWG.#: 5356114
DRAWN BY: joe.shilbo
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

STORE NO: TX 1417

SHAKE SHACK
SHAKE SHACK ROUND ROCK
ROUND ROCK, TX

REVISION

NO	DATE	DESCRIPTION
1	11/07/2022	IFC

STATUS: IFC SET

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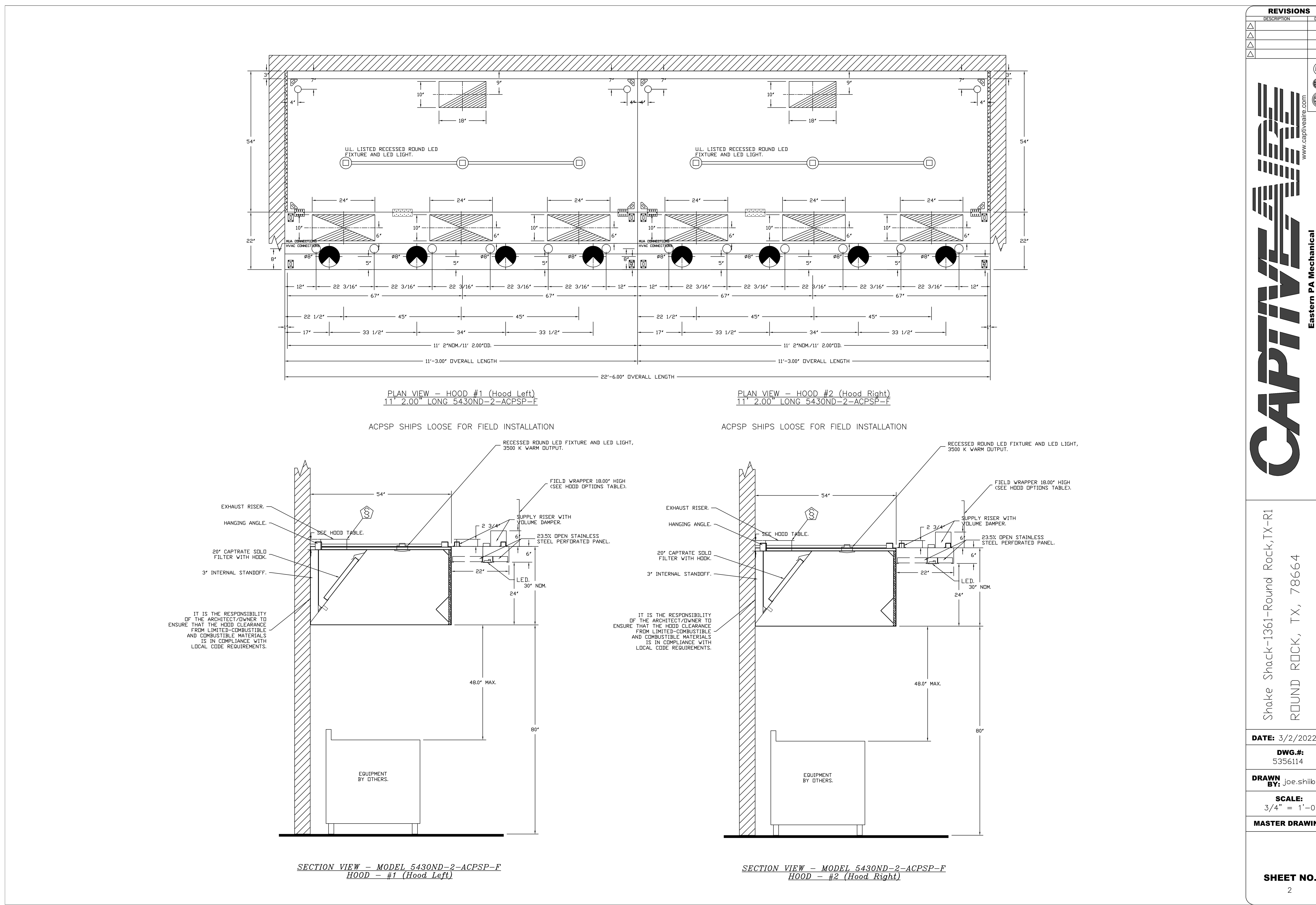
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SHEET NAME:
CAPTIVE AIRE DRAWINGS

DATE: 3/2/22	PROJECT NO: 34667
DRAWN: Author	SCALE: AS NOTED

SHEET NO: M701

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Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
DWG.#: 5356114
DRAWN BY: joe.shiloo
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 2

STORE NO:
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DATE: 3/24/22 **PROJECT NO:** 34667

DRAWN: Author **SCALE:** AS NOTED

SHEET NO.:
M702

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FIRE SYSTEM INFORMATION - JOB#5356114

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0/3.0/3.0/3.0	48	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

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

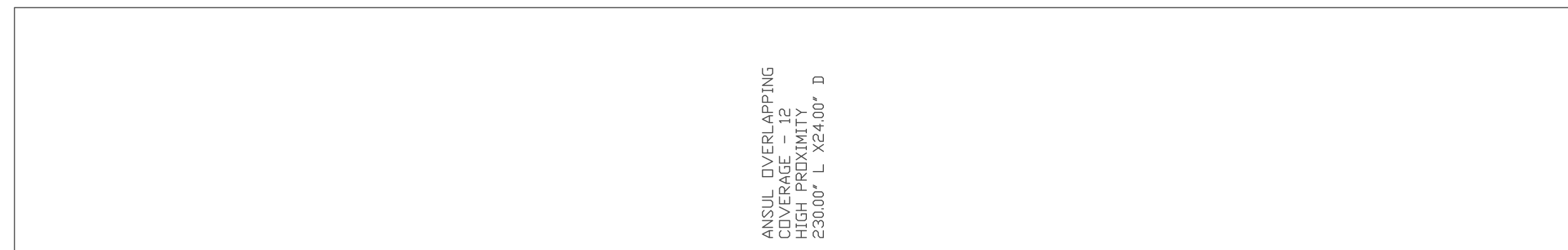
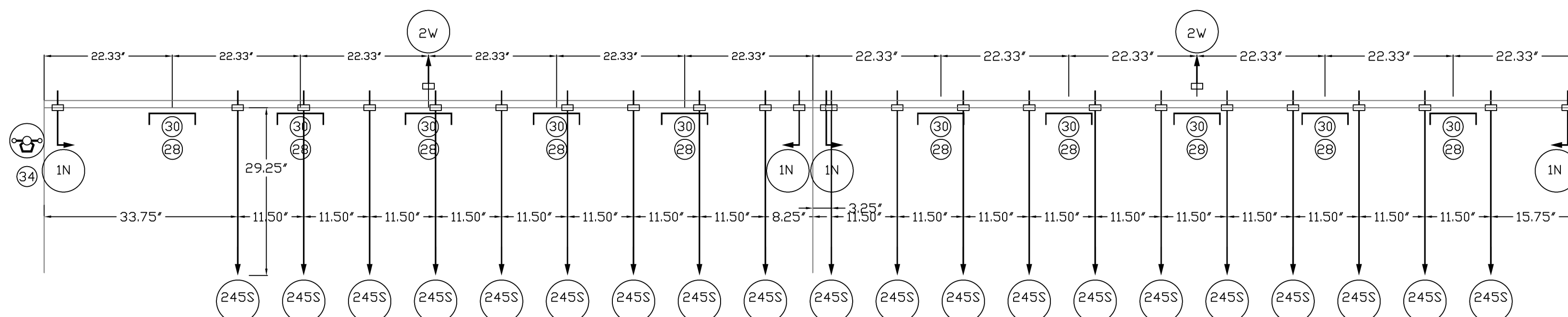
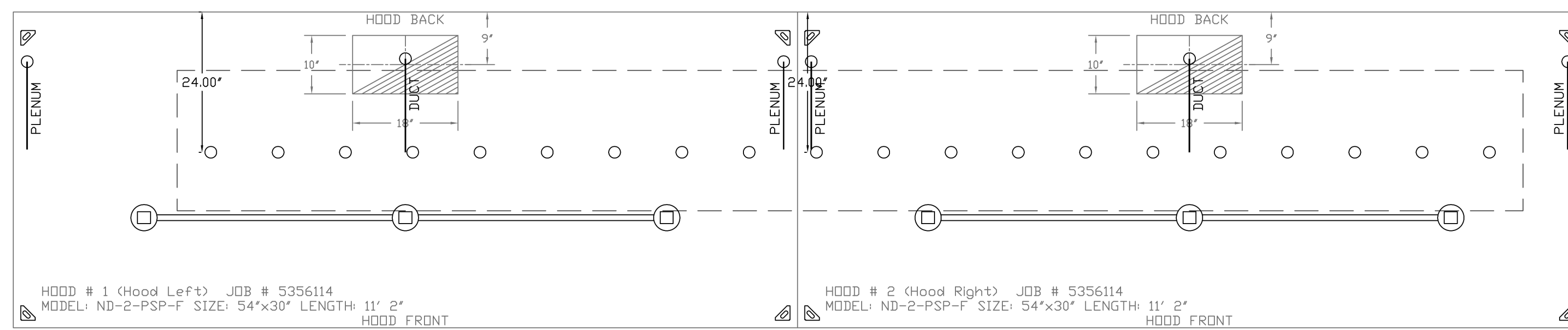
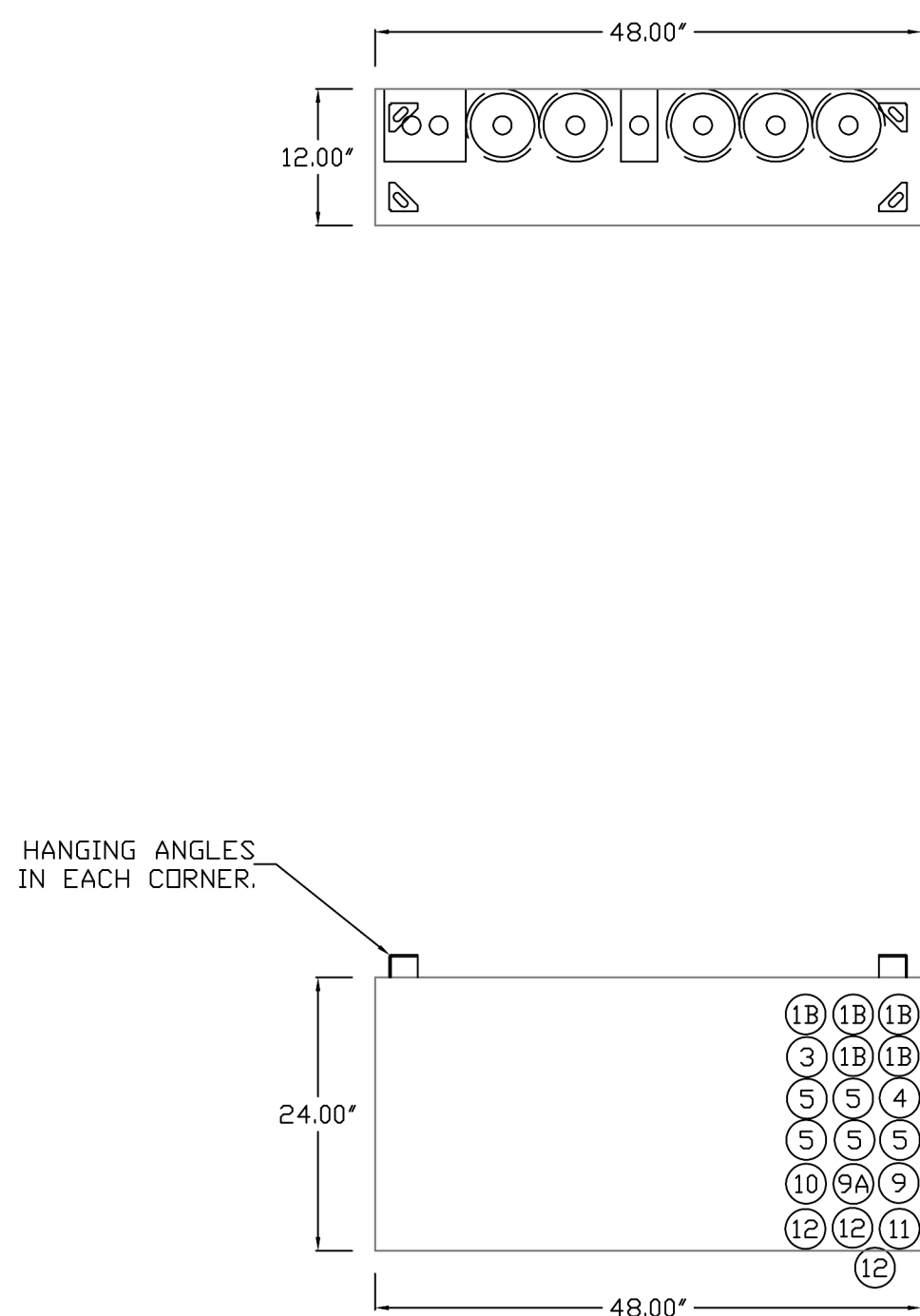
NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER 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.

JOB #: 5356114.
 JOB NAME: SHAKE SHACK-1361-ROUND ROCK, TX-R1.
 SYSTEM SIZE: ANSUL-3.0/3.0/3.0/3.0-WC TOTAL FP REQUIRED: 48.
 HOOD # 1 11' 2.00" LONG x 54" WIDE x 30" HIGH.
 RISER # 1 SIZE: 10" x 18".
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
 HOOD # 2 11' 2.00" LONG x 54" WIDE x 30" HIGH.
 RISER # 1 SIZE: 10" x 18".
 HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

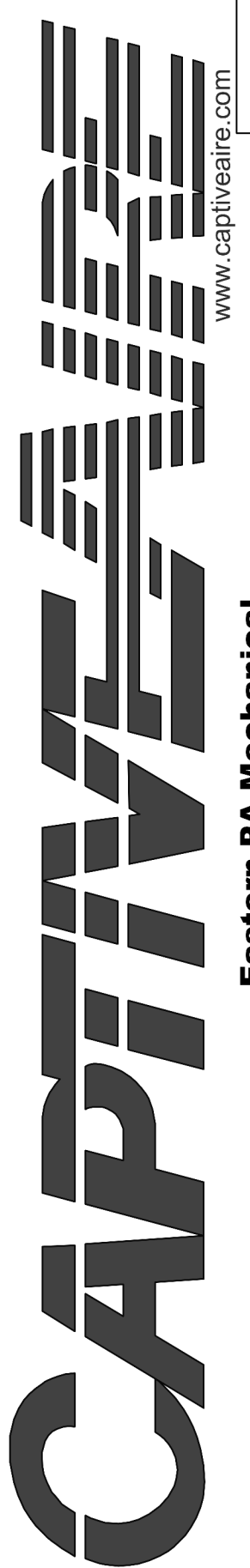
LEGEND - FIRE CABINET ANSUL SYSTEM

- 1A 1.5 GALLON TANK.
- 1B 3 GALLON TANK.
- 2 OEM AUTOMAN RELEASE.
- 3 OEM REGULATED RELEASE.
- 4 OEM REGULATED ACTUATOR.
- 5 ANSULEX LIQUID AGENT (3 GAL.).
- 6 ANSULEX LIQUID AGENT (1.5 GAL.).
- 7 CARTRIDGE (101-20).
- 8 CARTRIDGE (101-10).
- 9 CARTRIDGE (101-30).
- 9A CARTRIDGE (LT-A-101-30).
- 9B DOUBLE TANK CARTRIDGE.
- 10 TEST LINK.
- 11 DOUBLE MICROSWITCH.
- 12 HOSE ASSEMBLY.
- 1100 DUCT NOZZLE (430913).
- 2W DUCT NOZZLE (419337).
- 1W NOZZLE ASSEMBLY (419336).
- 1F NOZZLE ASSEMBLY (419333).
- 1N NOZZLE ASSEMBLY (419335).
- 1/2N NOZZLE ASSEMBLY (419334).
- 3N NOZZLE ASSEMBLY (419338).
- 245 NOZZLE ASSEMBLY (419340).
- 230 NOZZLE ASSEMBLY (419339).
- 2120 NOZZLE ASSEMBLY (419343).
- 290 NOZZLE ASSEMBLY (419342).
- 260 NOZZLE ASSEMBLY (419341).
- 28 DETECTOR BRACKET.
- 29 LOW TEMP FUSIBLE LINK.
- 30 HIGH TEMP FUSIBLE LINK.
- MGV MECHANICAL GAS VALVE.
- EGV ELECTRICAL GAS VALVE.
- 34 REMOTE MANUAL PULL STATION.
- S SWIVEL ADAPTOR.



REVISIONS

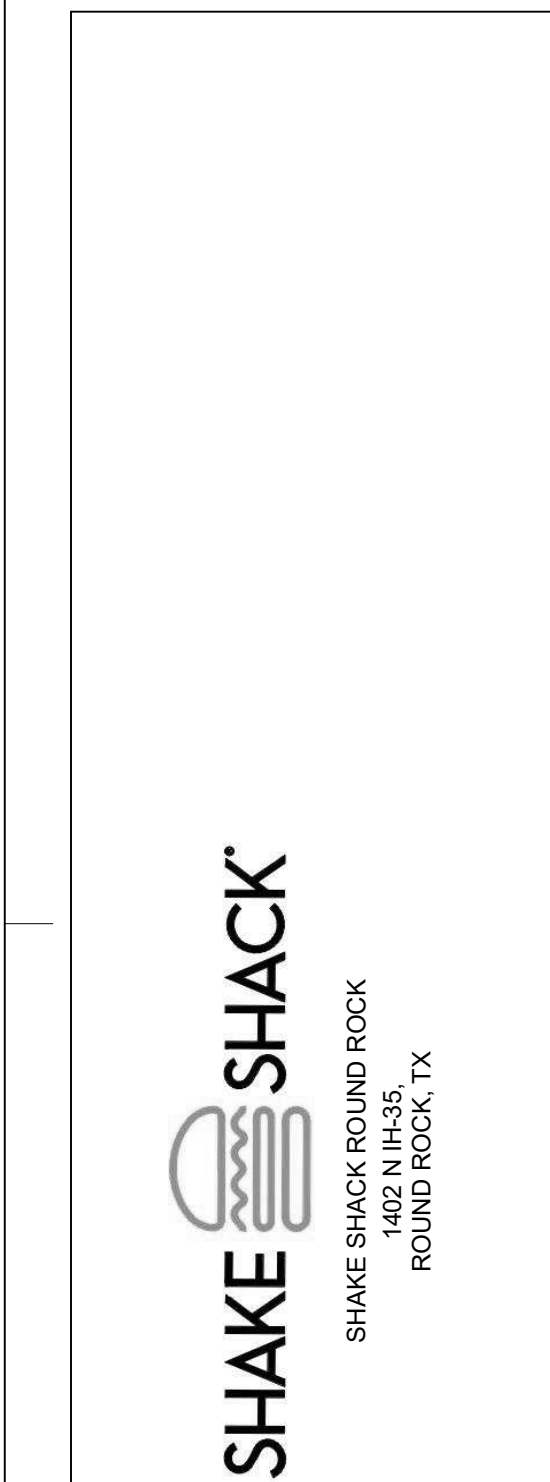
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Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
DWG.#: 5356114
DRAWN BY: Joe.shilba
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

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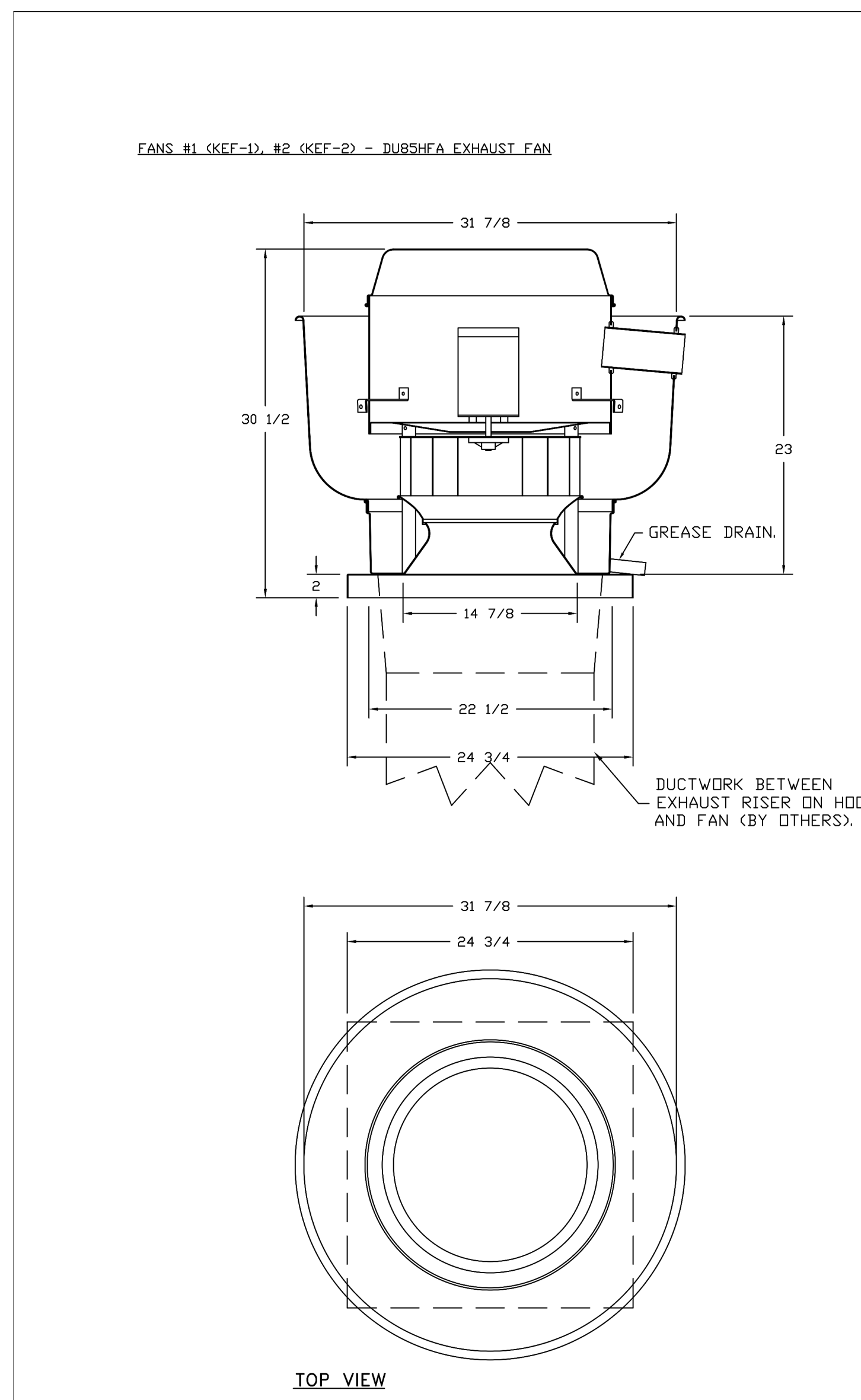
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DATE: 3/24/22 PROJECT NO: 34667

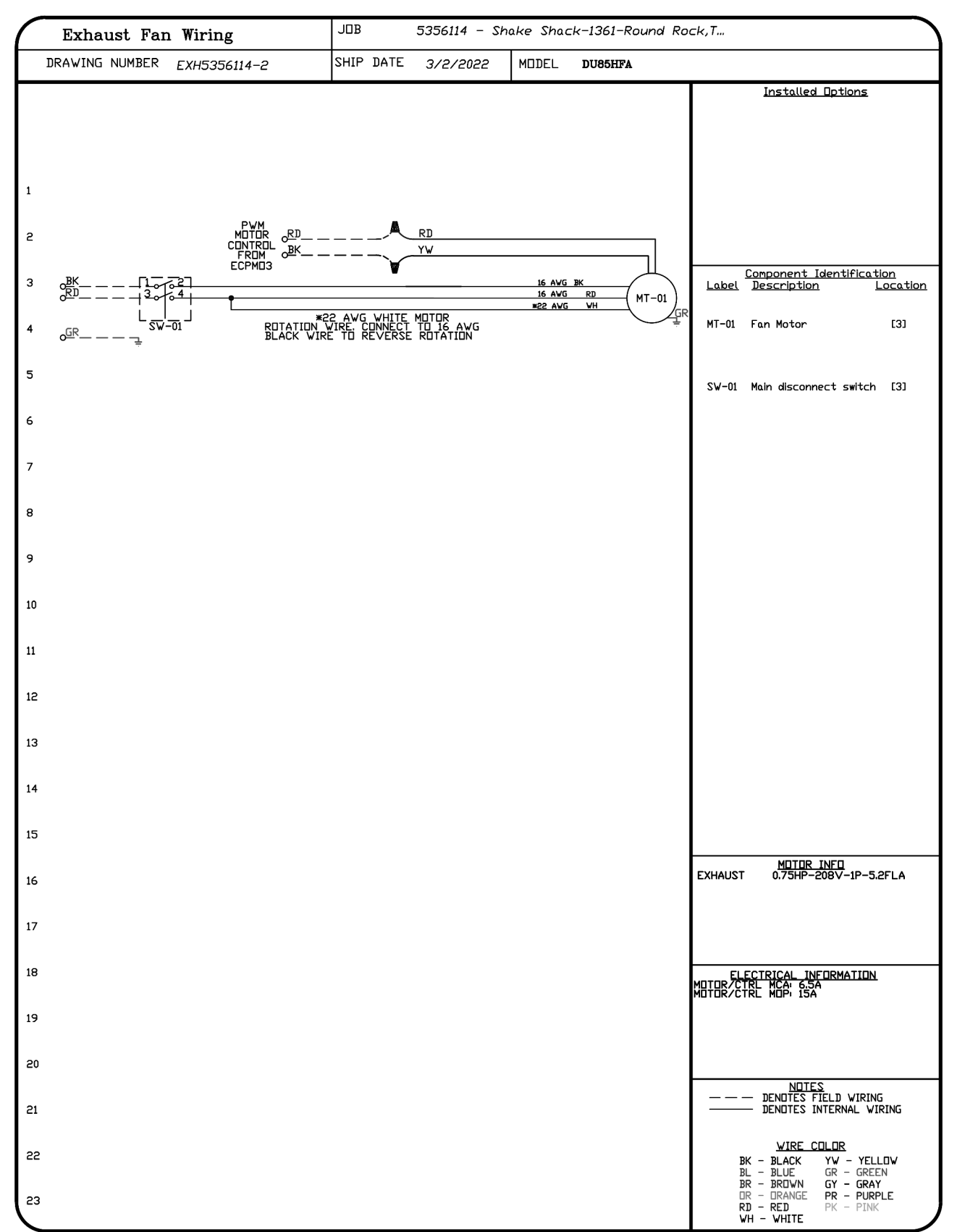
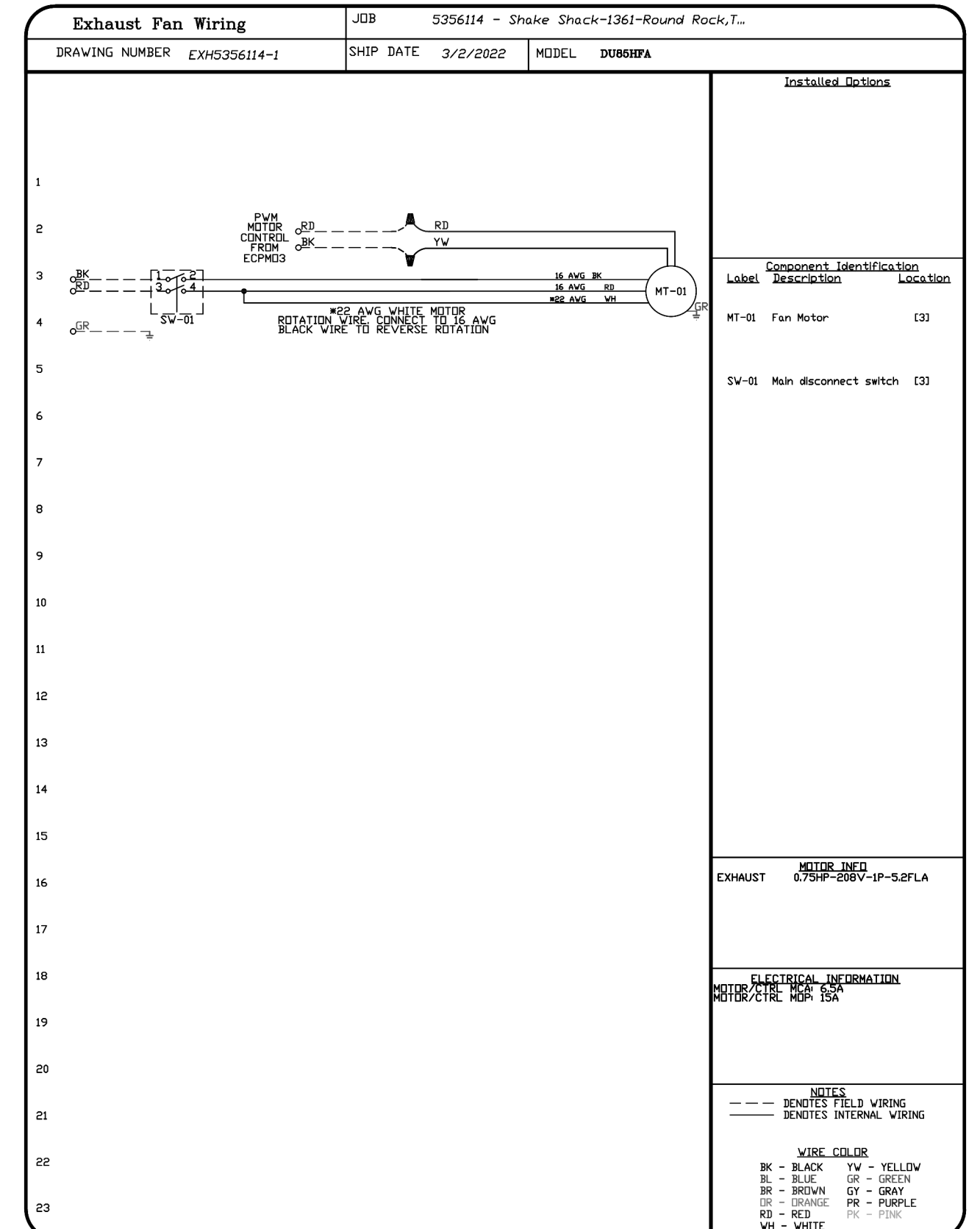
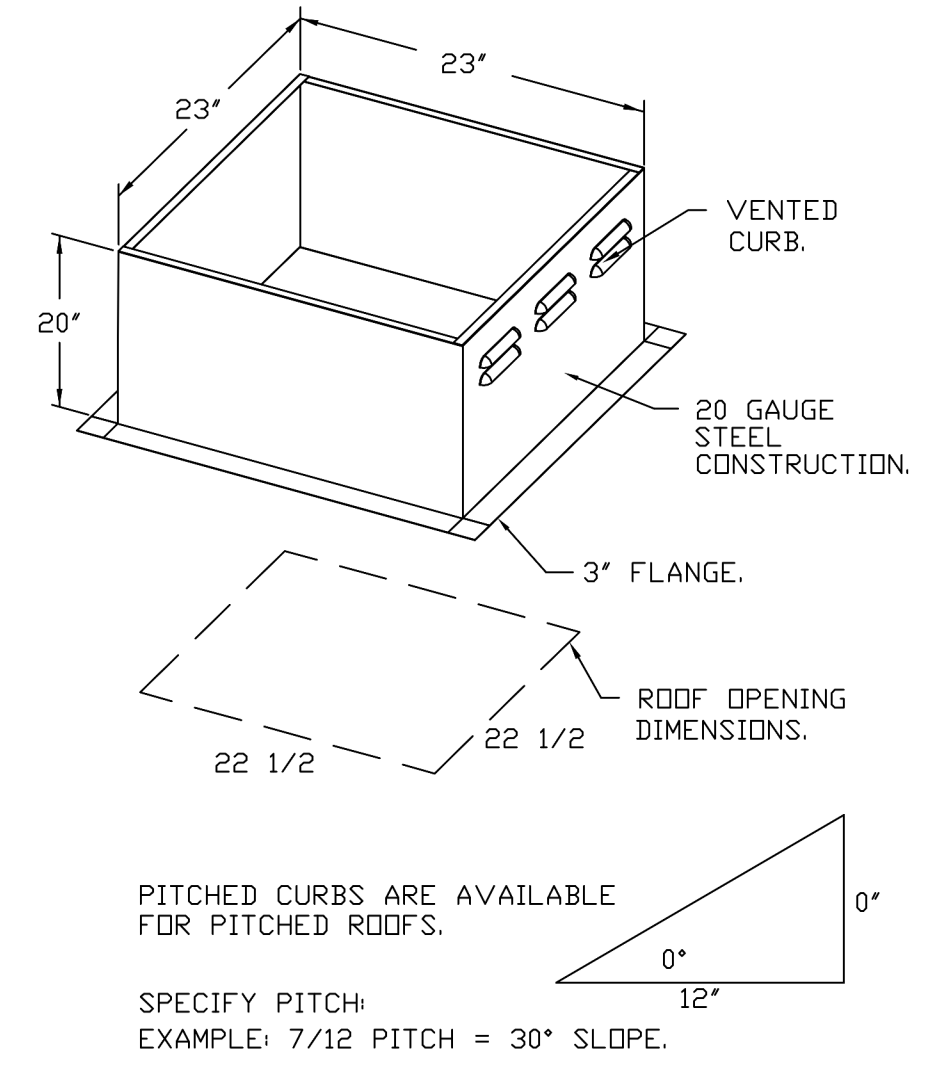
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- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - RESTAURANT MODEL.
 - UL705 AND UL752 AND UL-C-5645
 - VARIABLE SPEED CONTROL.
 - INTERNAL WIRING.
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
 - HIGH HEAT OPERATION 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 CHECK 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 - INSTALLED AT PLANT - FOR GREASE DUCTS.
 - ECM WIRING PACKAGE - PWM SIGNAL FROM EXPOSED PREWIRED SPEED MOTOR, CCW ROTATION.
 - 2 YEAR PARTS WARRANTY.



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Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
 DWG.#: 5356114
 DRAWN BY: joe.shilba
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 5

STORE NO: TX 1417



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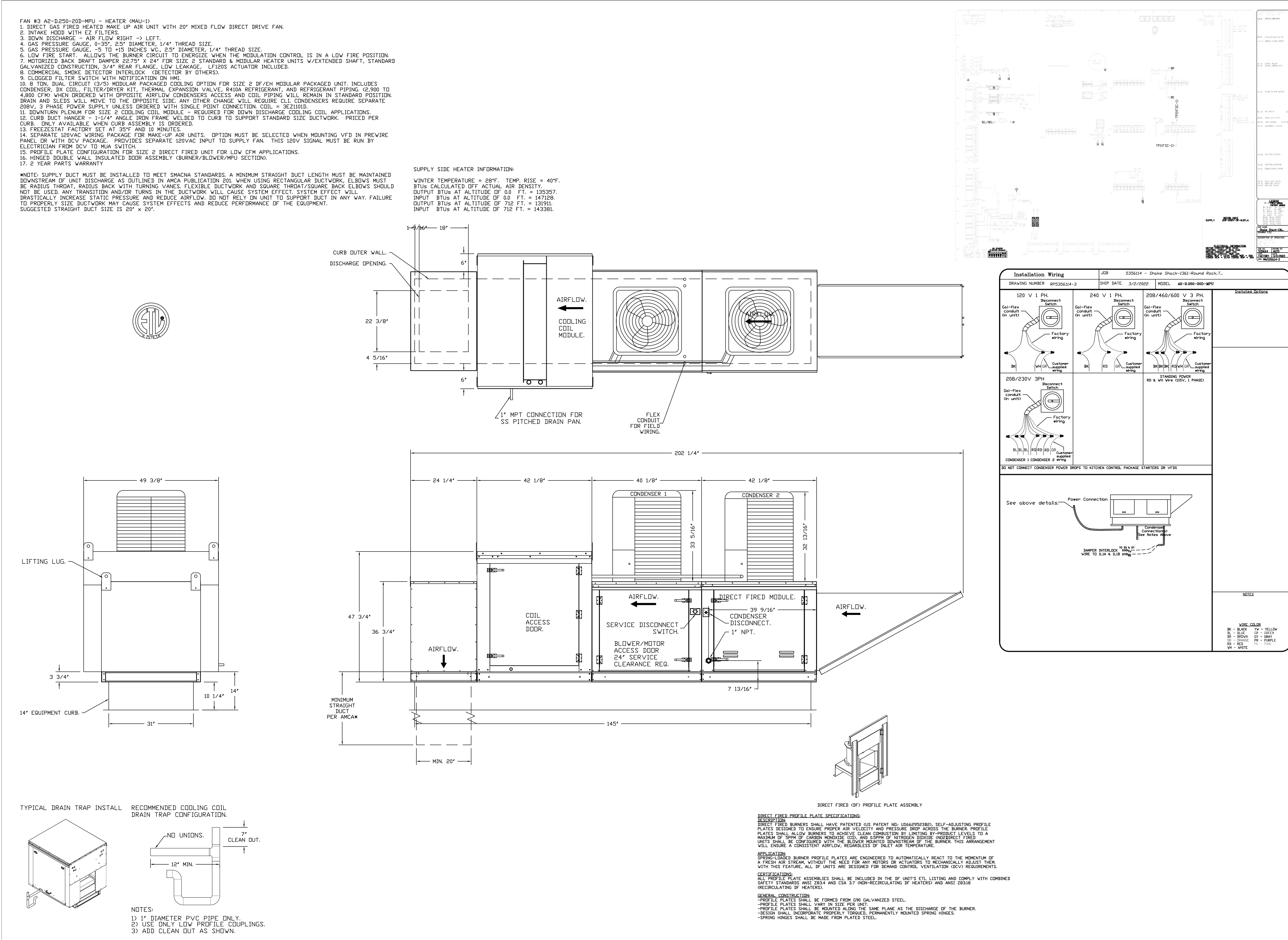
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DATE: 3/24/22 PROJECT NO: 34667

DRAWN: Author SCALE: AS NOTED

SHEET NO: M705

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REVISIONS

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SHAKE SHACK
 SHAKE SHACK ROUND ROCK
 ROUND ROCK, TX

CAPTIVE
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Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
DWG.#: 5356114
DRAWN BY: Joe.Shilba
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
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STORE NO:
 TX 1417

SHAKE SHACK
 SHAKE SHACK ROUND ROCK
 ROUND ROCK, TX

REVISION

NO.	DATE	DESCRIPTION
1	11/07/2022	IFC

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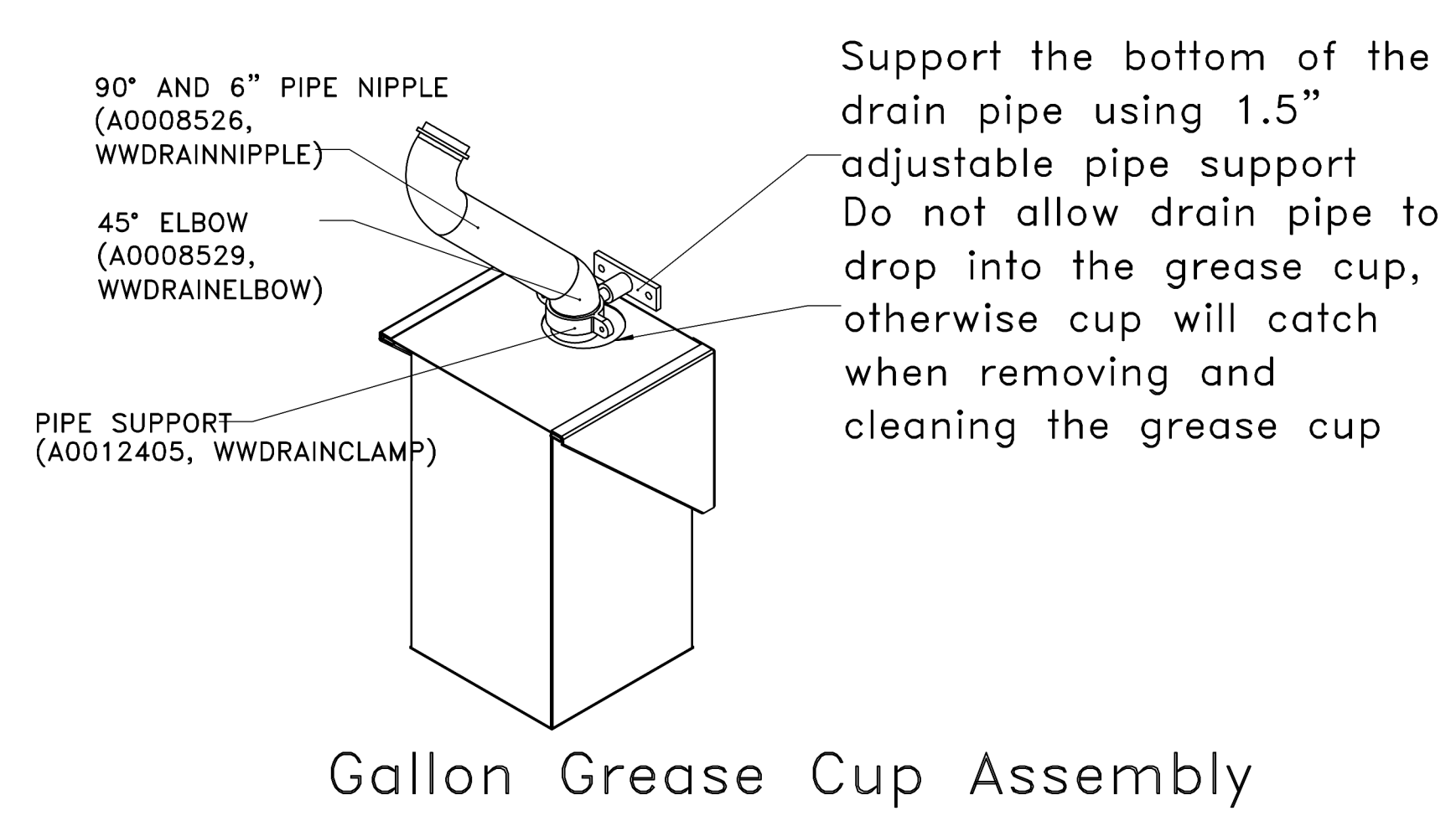
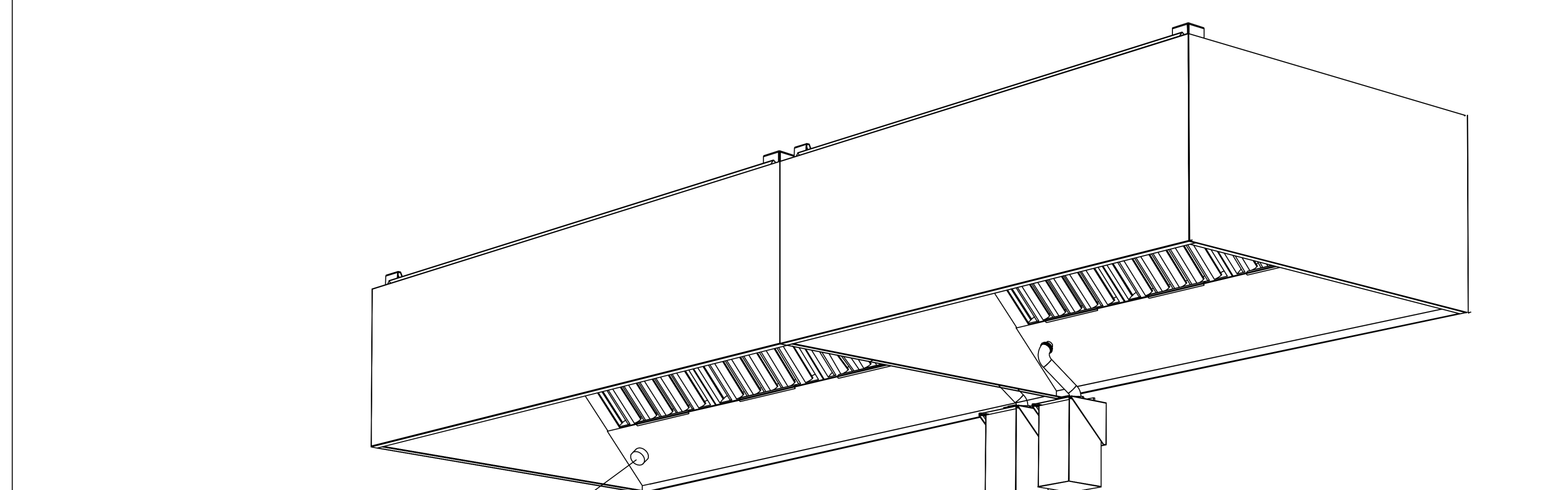
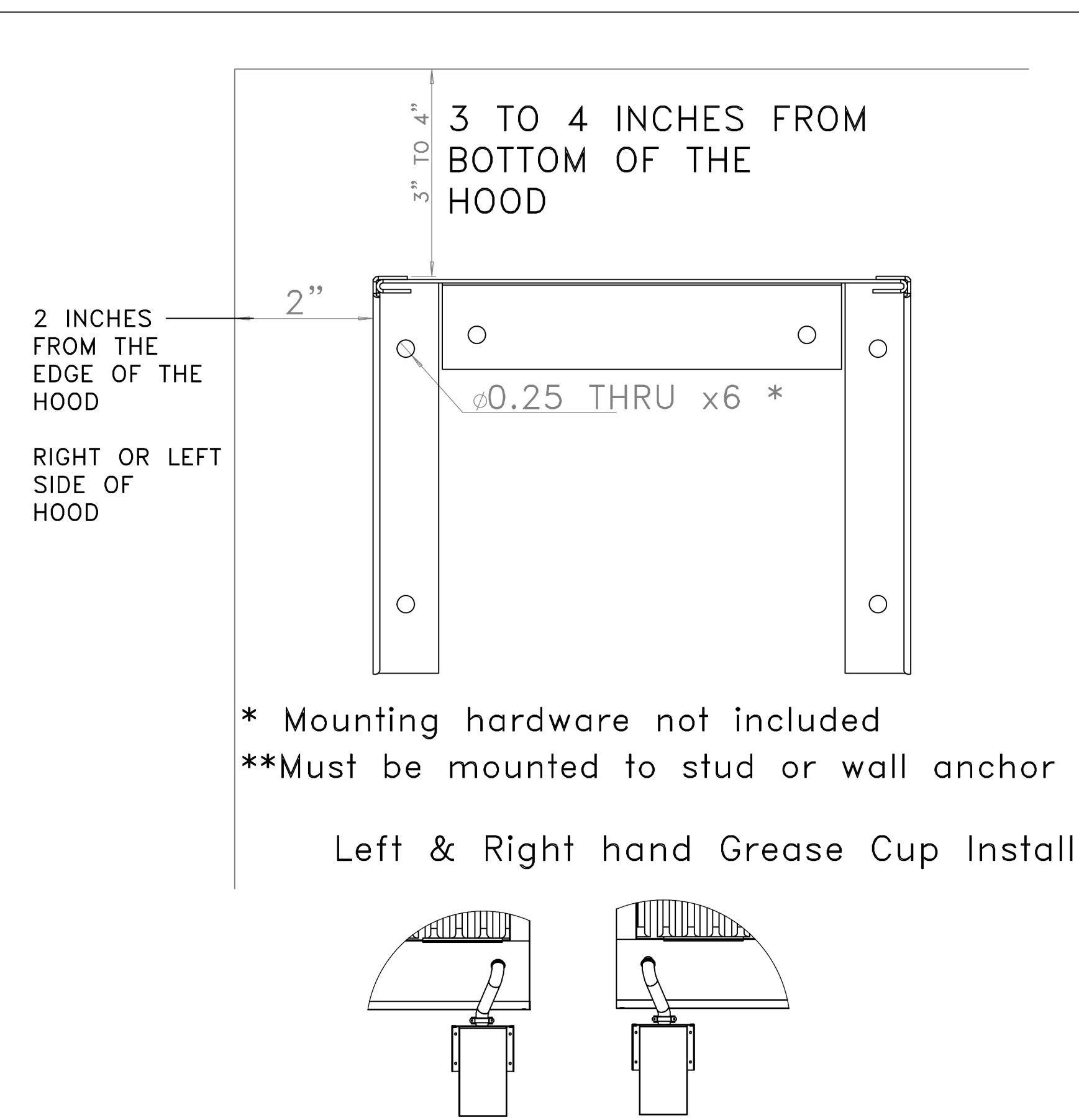
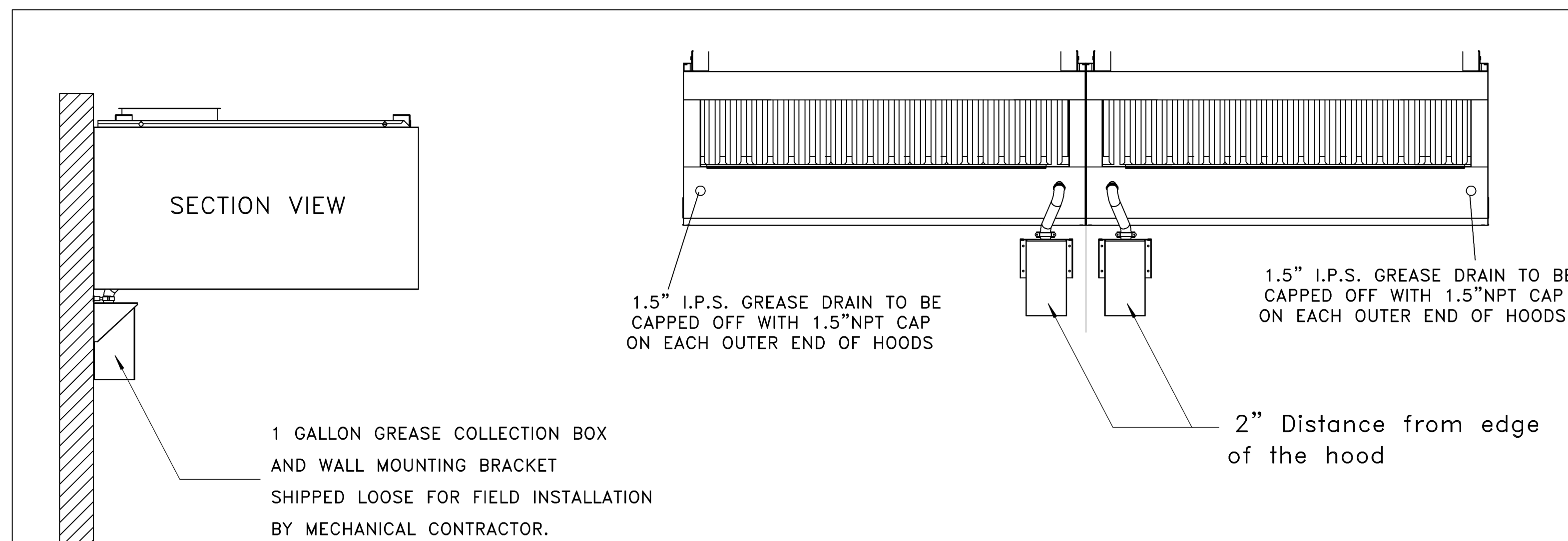
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 CAPTIVE AIRE DRAWINGS

DATE: 3/24/22	PROJECT NO: 34667
DRAWN: Author	SCALE: AS NOTED

SHEET NO:
M706

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1.5" I.P.S. GREASE DRAIN TO BE CAPPED OFF WITH 1.5"NPT CAP ON EACH OUTER END OF HOODS

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.

Support the bottom of the drain pipe using 1.5" adjustable pipe support. Do not allow drain pipe to drop into the grease cup, otherwise cup will catch when removing and cleaning the grease cup

Gallon Grease Cup Assembly

1	Mounting Bracket
2	Gallon Grease Cup

1 GALLON GREASE COLLECTION BOX AND WALL MOUNTING BRACKET SHIPPED LOOSE FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE

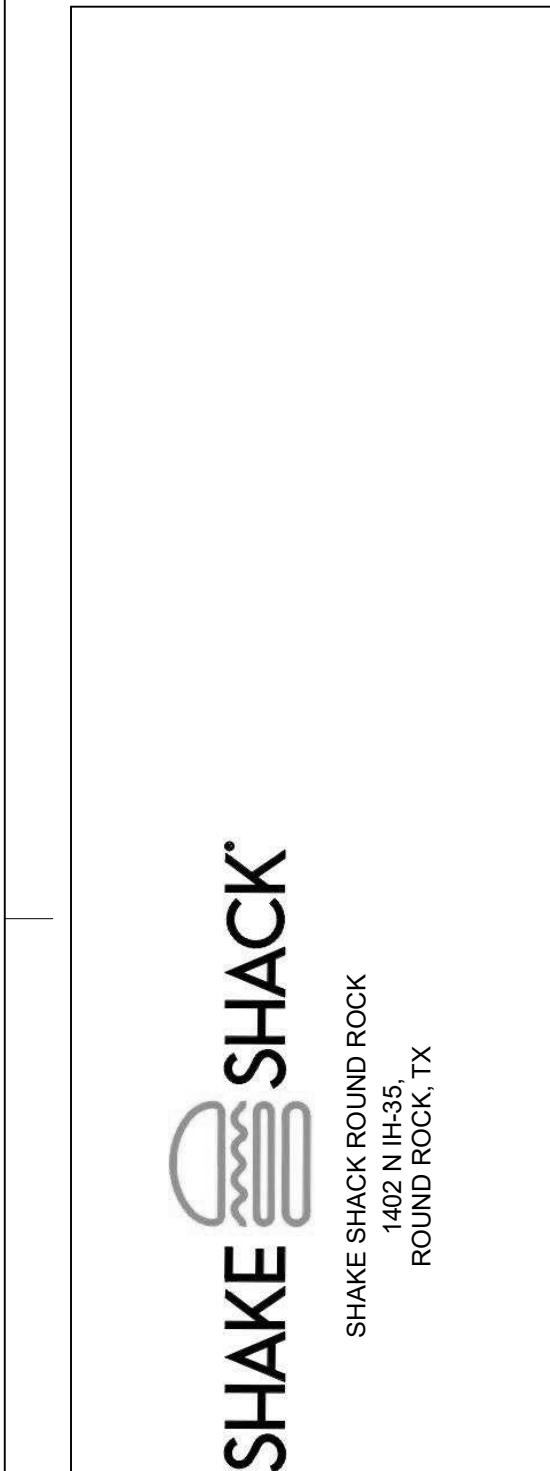
Eastern PA Mechanical
 www.captiveaire.com
 PO Box 8200, 1 Union Ave., Bala Cynwyd, PA, 19004 PHONE: (877) 504-4126 EMAIL: reg108@captiveaire.com

Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
 DWG.#: 5356114
 DRAWN BY: joe.shiiba
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 7

STORE NO: TX 1417



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DATE	DESCRIPTION
11/07/2022	IFC

STATUS: IFC SET

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SHEET NAME: CAPTIVE AIRE DRAWINGS

DATE: 3/24/22 PROJECT NO: 34667

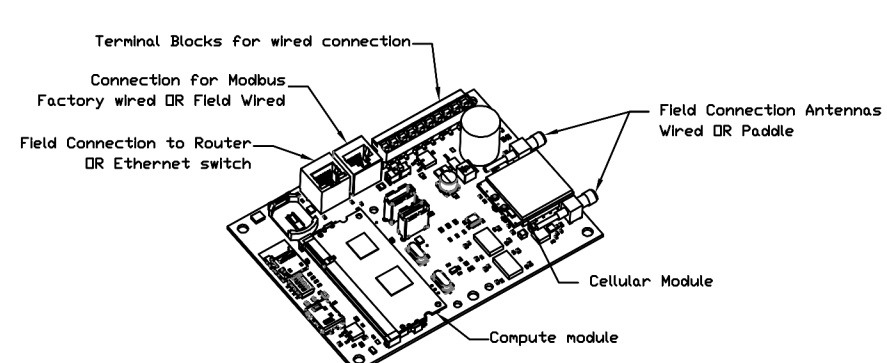
DRAWN: Author SCALE: AS NOTED

SHEET NO: M707

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ELECTRICAL PACKAGE - JOB#5356114

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1		SC-F01201MA	20"x18"x6.62" BOX	05 - SS WALL MOUNT BDX	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY DRIFT WITH SUPPLY	KEF-1	EXHAUST	1	0.750	208	5.2
							KEF-2	EXHAUST	1	0.750	208	5.2
							MAU-1	SUPPLY	3	2.000	208	8.3

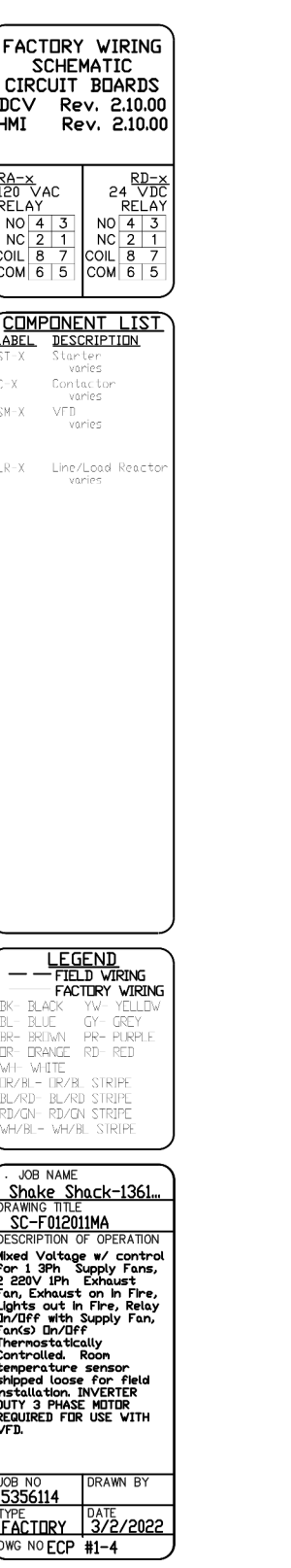
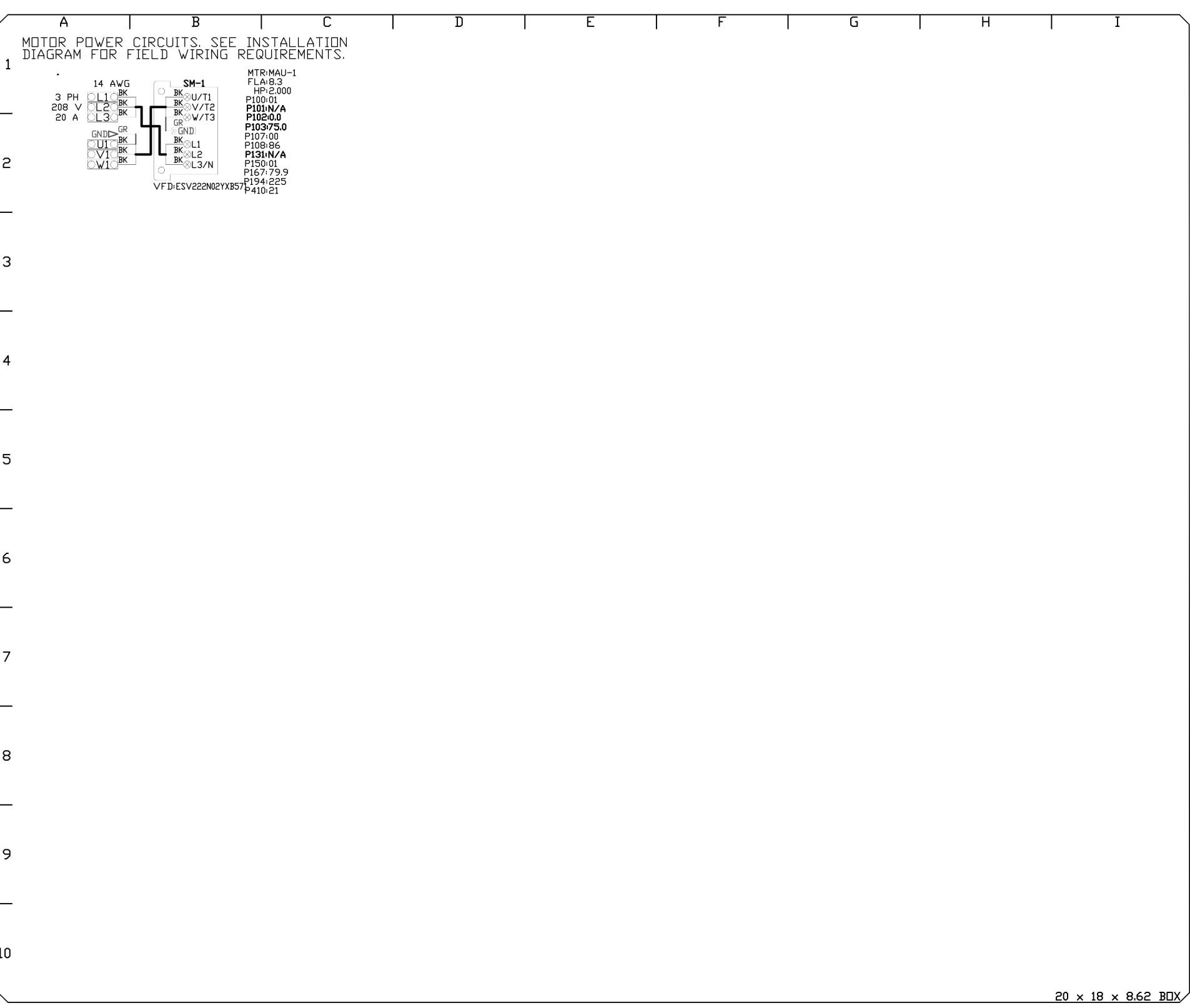
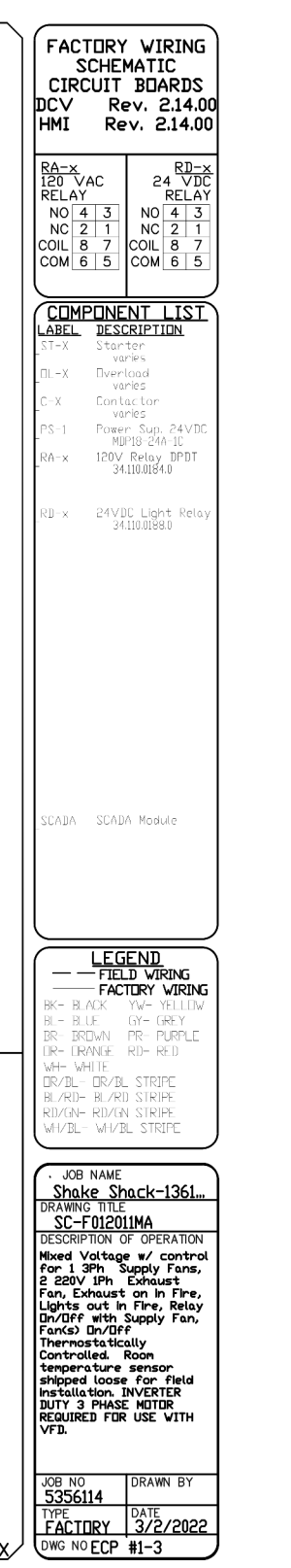
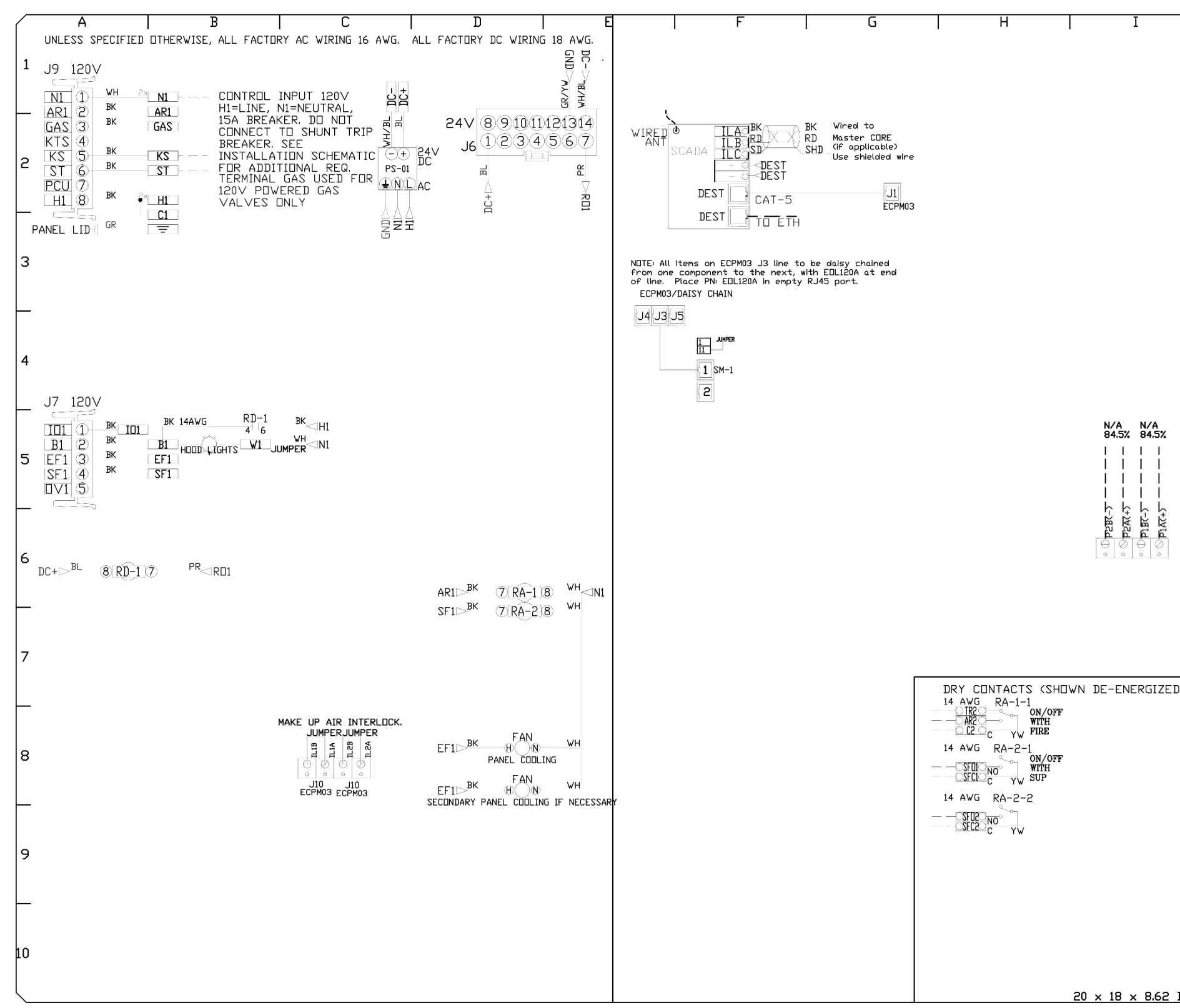
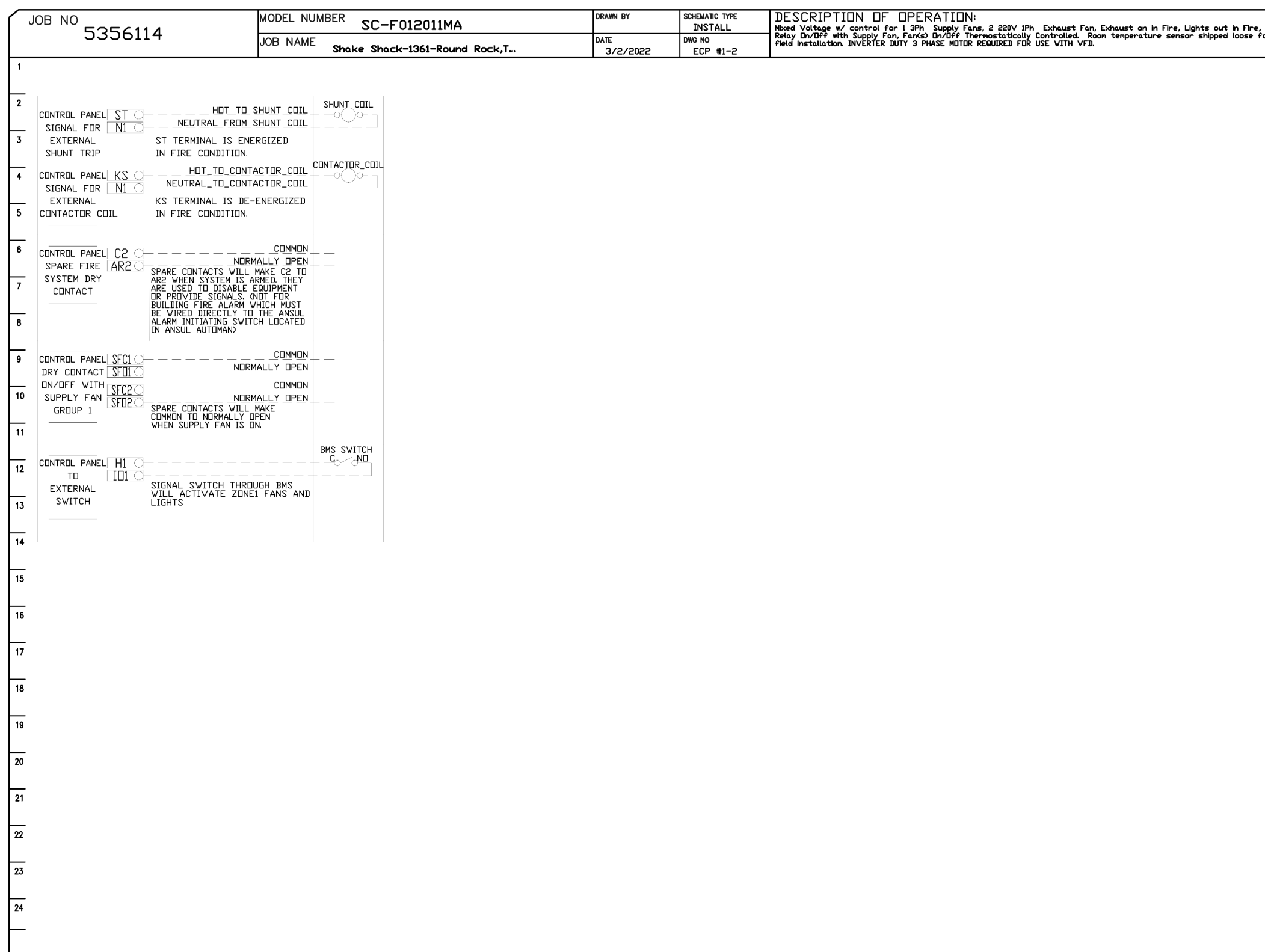
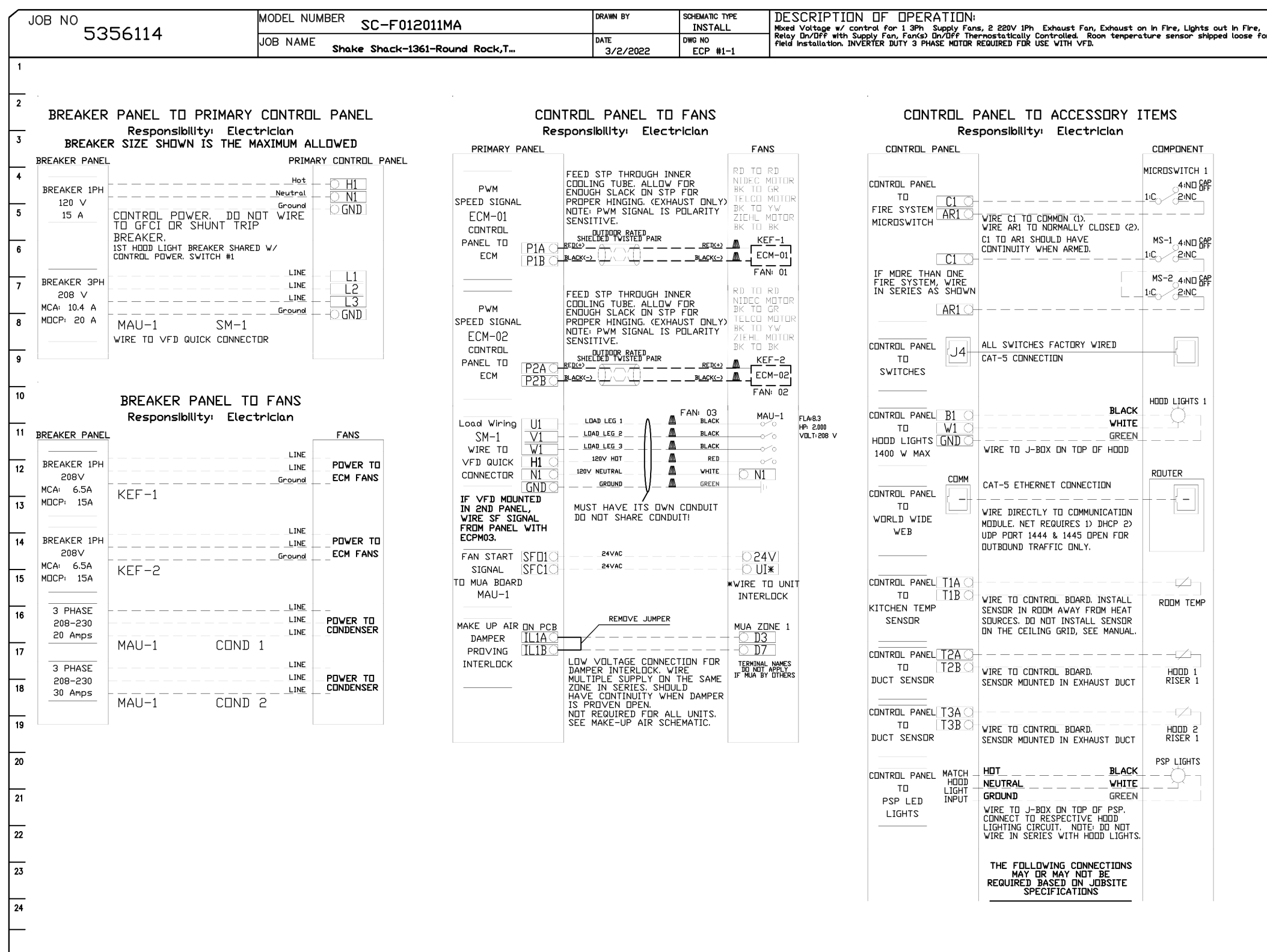


CASlink Monitor and Control

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

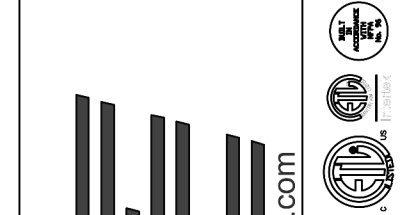
MONITORING AND CONTROL POINTS LIST

POINT PACKAGE	FUNCTION	POINT PACKAGE	FUNCTION
Room Temperature	MONITOR	Room Temperature(C)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MHA Discharge Temperature	MONITOR	MHA Discharge Temperature	MONITOR
MHA Return Temperature	MONITOR	MHA Return Temperature	MONITOR
Fan Speed	MONITOR	Condenser Pressure	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Phase	MONITOR	Fan Status	MONITOR
FFD Pumps	MONITOR	FFD Pumps	MONITOR
Chiller Pumps	MONITOR	FFD Pump On/Off Percentage	MONITOR
Fan Condition	MONITOR	Fan Condition	MONITOR
Fan Status	MONITOR	CO2P Pir System	MONITOR
FFD Pumps	MONITOR	Building Pressure	MONITOR
FFD Pump On/Off Percentage	MONITOR	Fan Status(s)	MONITOR & CONTROL
Fan Condition	MONITOR	Light Interlock	MONITOR & CONTROL
CO2P Pir System	MONITOR	Flash Buttons	MONITOR & CONTROL
Building Pressure	MONITOR		
FFD Pump Status	MONITOR & CONTROL		
Fan Status	MONITOR & CONTROL		
Light Interlock	MONITOR & CONTROL		
Flash Buttons	MONITOR & CONTROL		



REVISIONS

NO	DATE	DESCRIPTION
1	11/07/2022	IFC



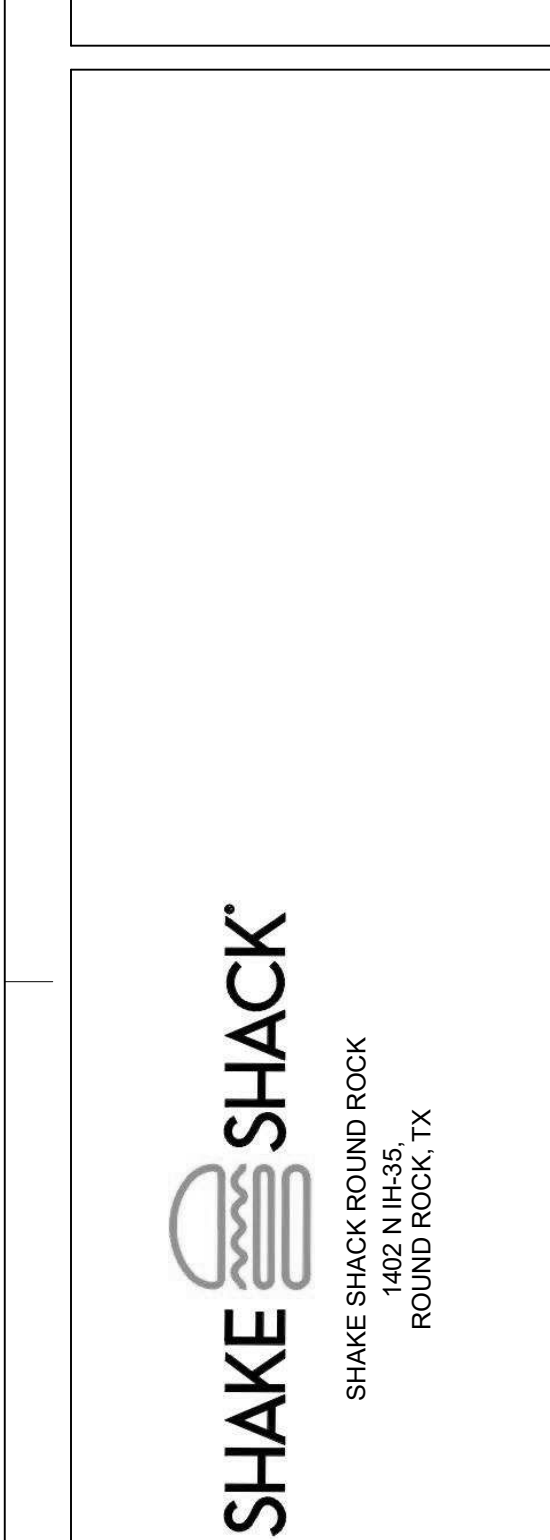
CAPTIVE
 Eastern PA Mechanical
 PO Box 2520, 1 Union Ave, Bala Cynwyd, PA 19004 PHONE: (267) 504-1128 EMAIL: reg1@captiveme.com

Shake Shack-1361-Round Rock, TX-R1
 ROUND ROCK, TX, 78664

DATE: 3/2/2022
 DWG.#: 5356114
 DRAWN BY: Joe Shilba
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 8

STORE NO: TX 1417



REVISION

NO	DATE	DESCRIPTION
1	11/07/2022	IFC

STATUS: IFC SET

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SHEET NAME:
CAPTIVE AIRE DRAWINGS

DATE: 3/24/22	PROJECT NO: 34667
DRAWN: Author	SCALE: AS NOTED
SHEET NO: M708	

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