

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

HOOD INFORMATION - JOB#6301204

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1	GRIDDLE HOOD	3347 BD-2	CAPTIVEAIRE	5' 6"	600 DEG	I	HEAVY	273	1500			4'	12'	1500	1910	-1.412'	430 SS WHERE EXPOSED	ALONE	ALONE
2	FRYER HOOD	3347 BD-2	CAPTIVEAIRE	7' 0"	600 DEG	I	HEAVY	214	1500			4'	12'	1500	1910	-1.090'	430 SS WHERE EXPOSED	ALONE	ALONE

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	GRIDDLE HOOD	CAPTRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO						YES	226 LBS
2	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO						YES	272 LBS

HOOD OPTIONS

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

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES	
1	WALL MNT	12"x36"x24"				100 LBS

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

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

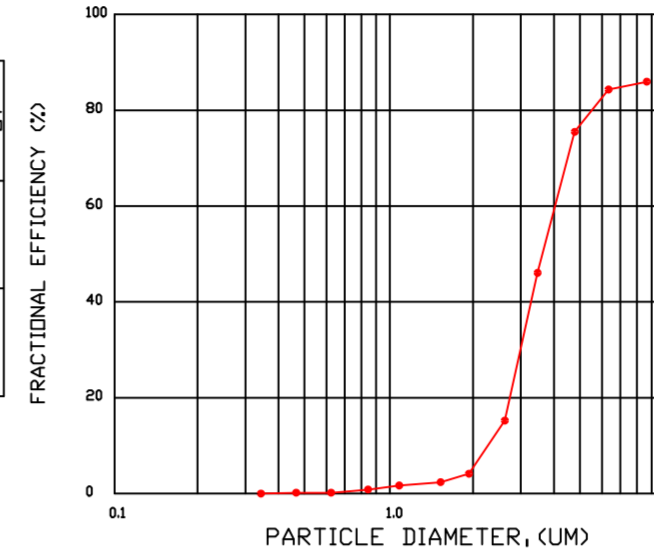
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

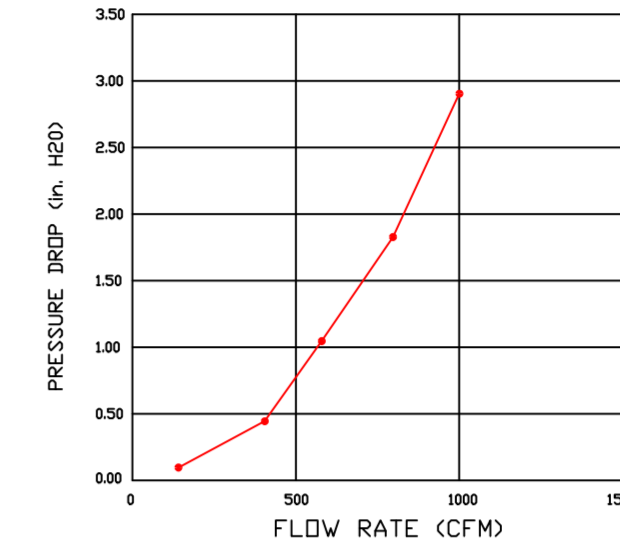
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

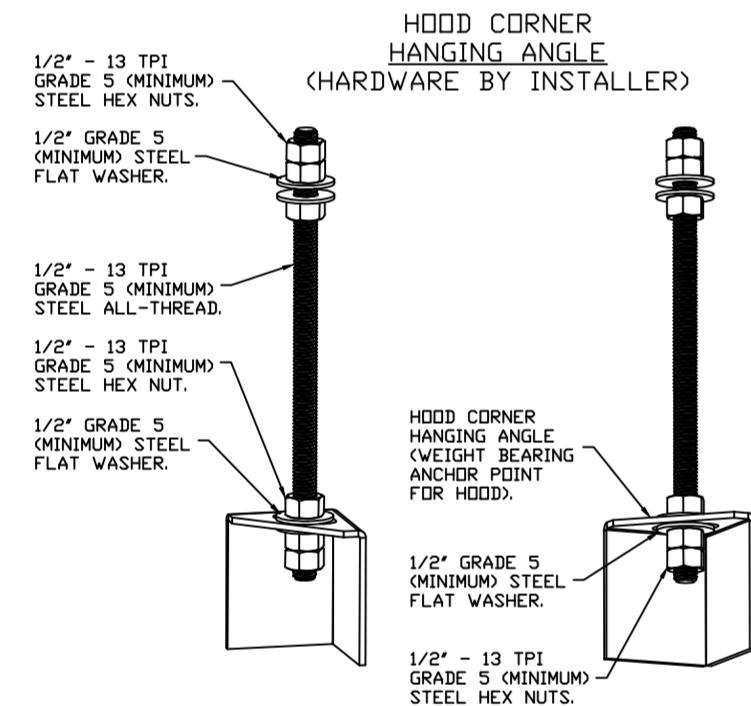
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



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



ASSEMBLY INSTRUCTIONS

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

SYSTEM DESIGN VERIFICATION (SDV)

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

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

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

REVISIONS

DESCRIPTION	DATE

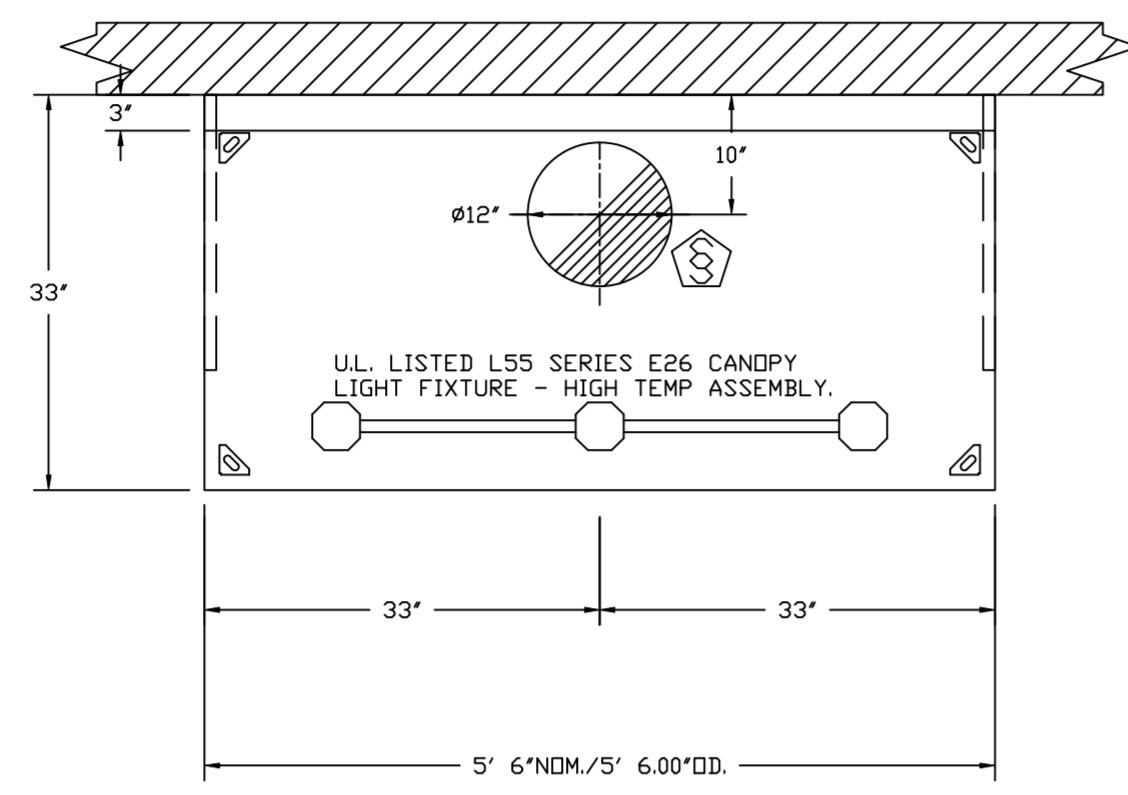
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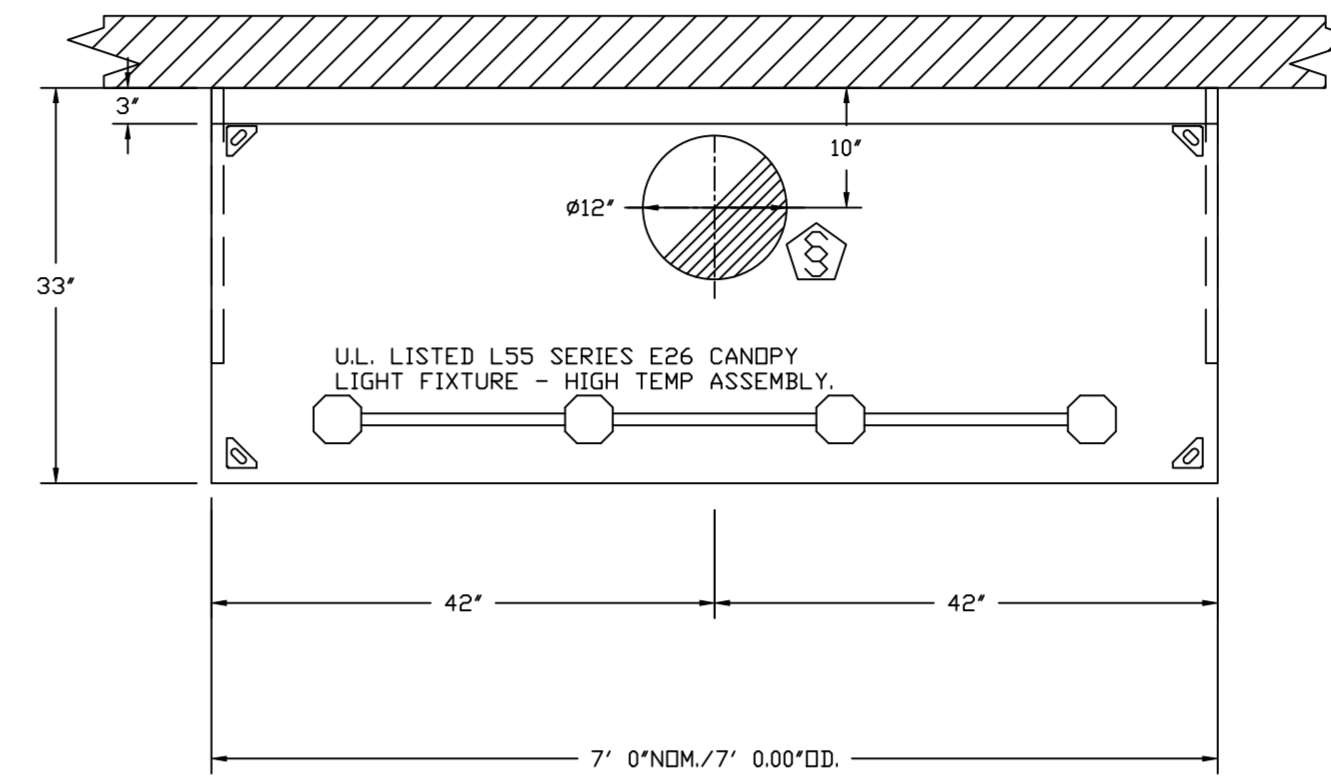
Culvers Labelle FL
 Labelle, FL, 33935

DATE: 10/26/2023
 DWG.#: 6301204
 DRAWN BY: sluddyjr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

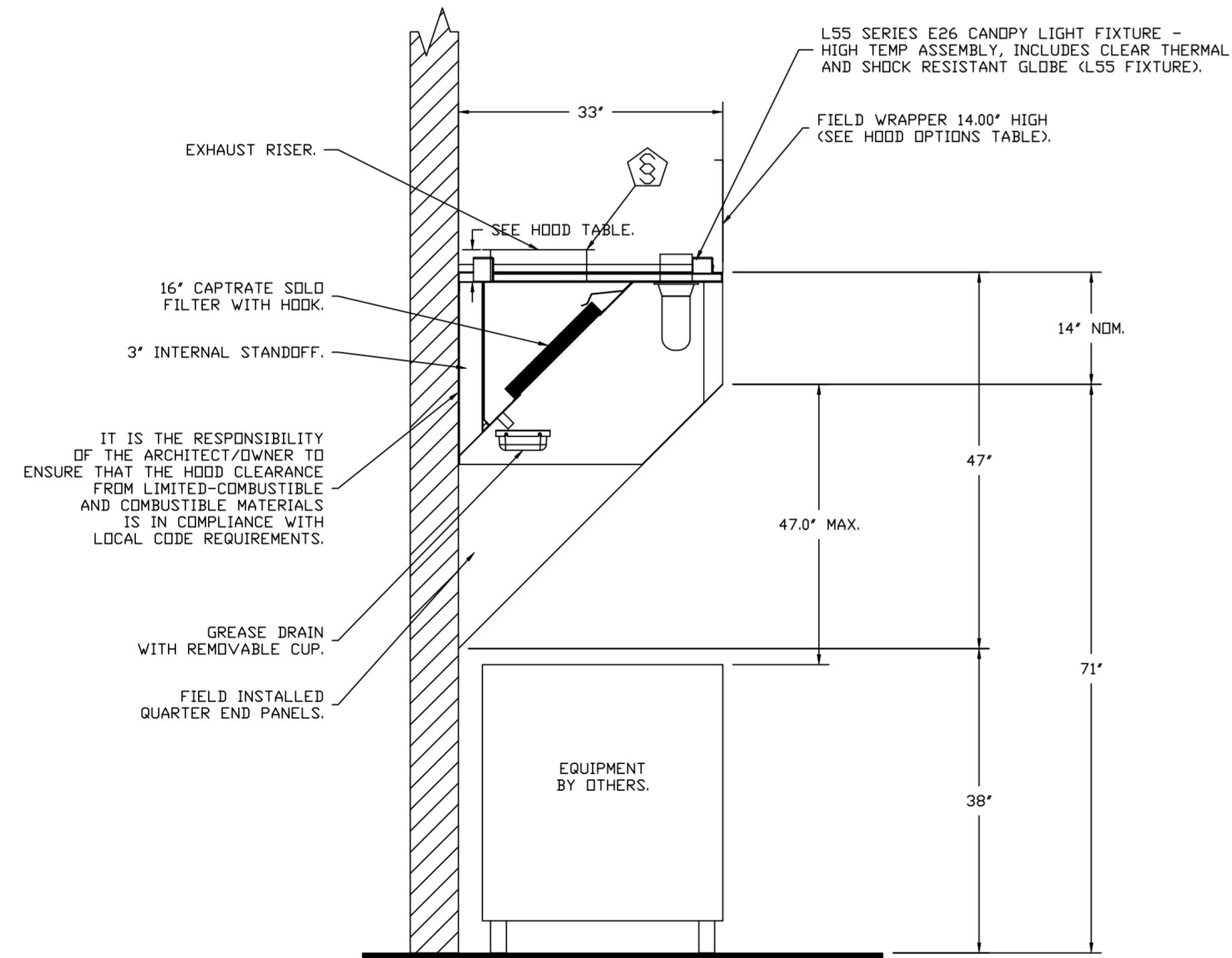
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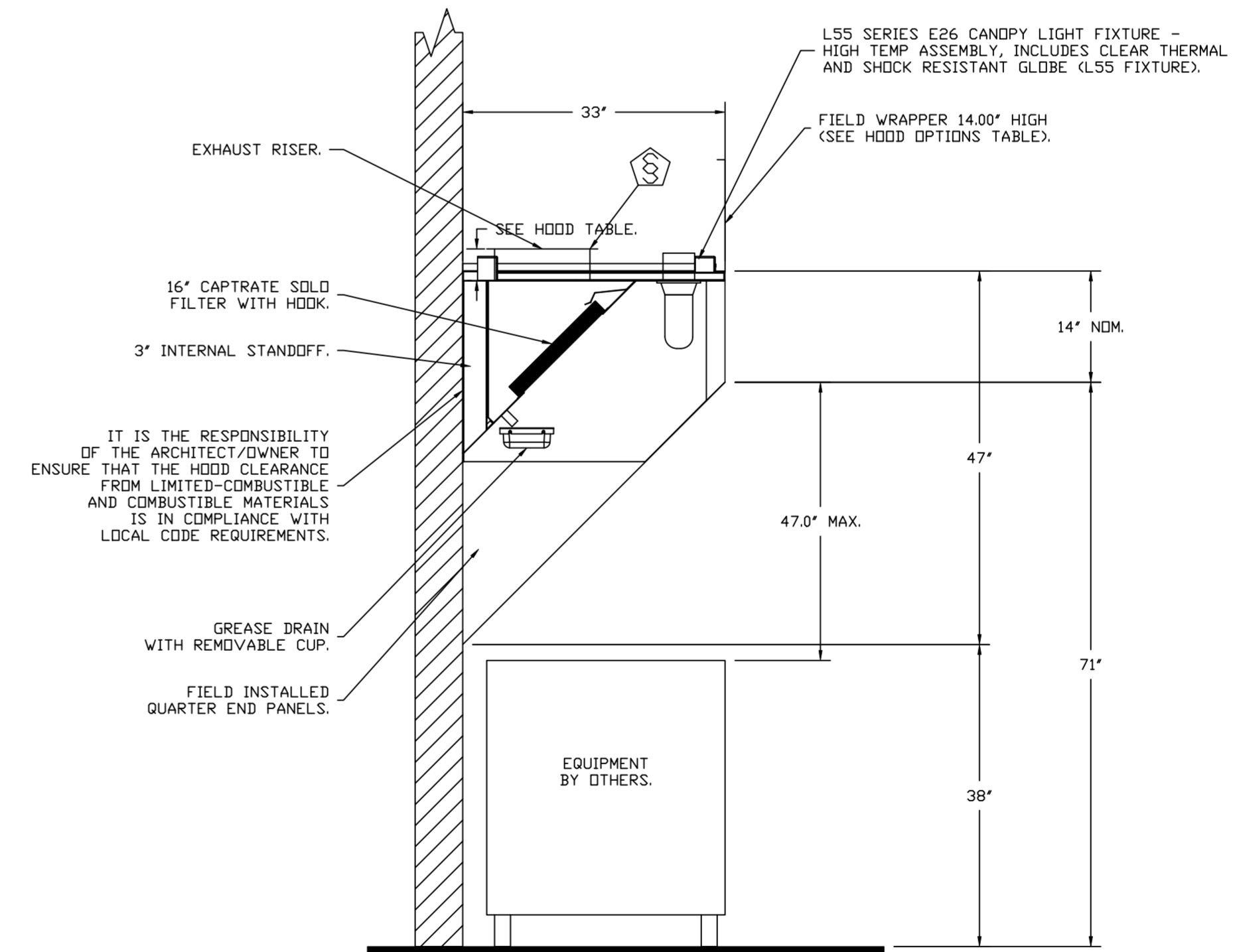
PLAN VIEW - HOOD #1 (GRIDDLE HOOD)
5' 6.00" LONG 3347BD-2



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



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



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

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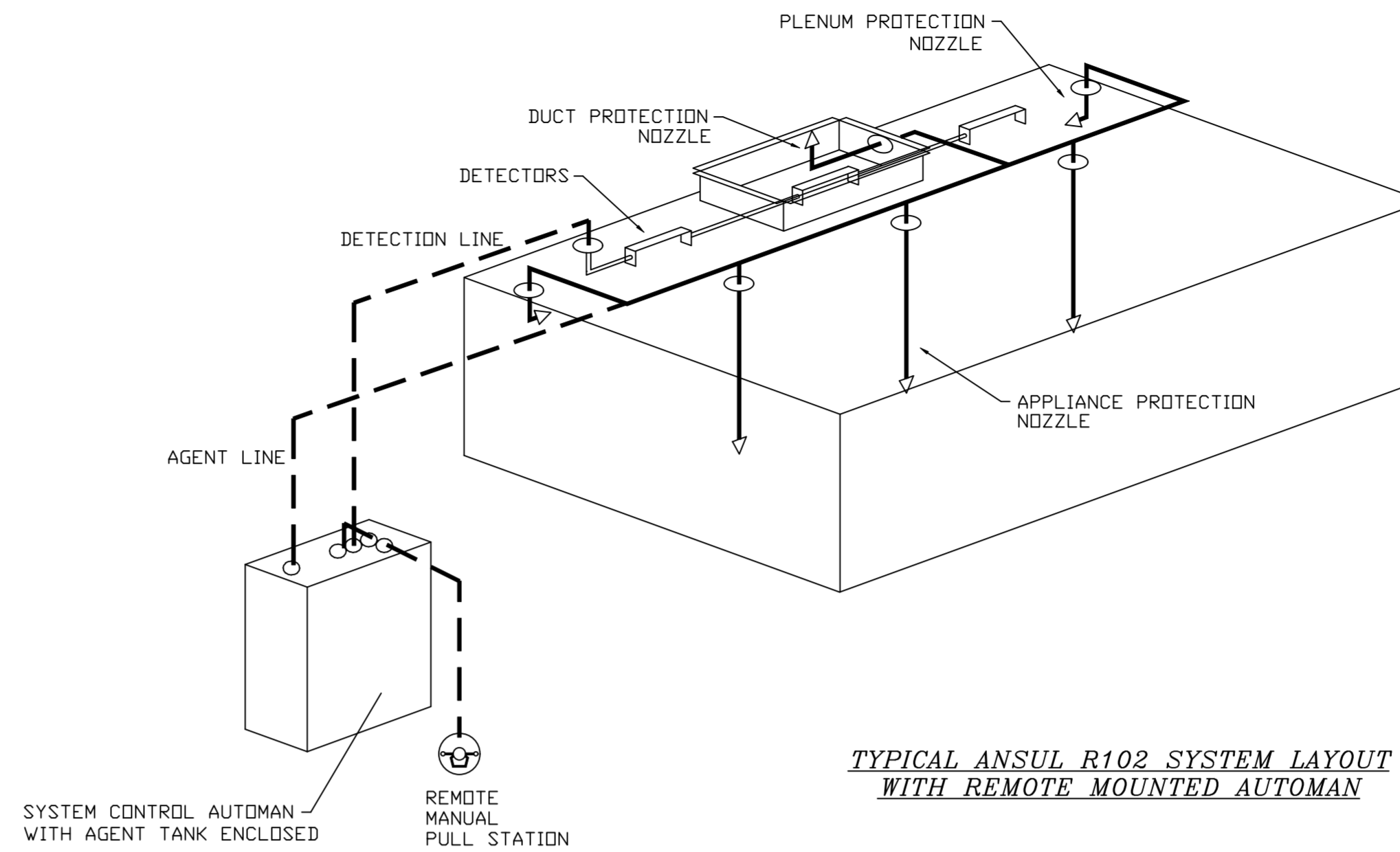
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FIRE SYSTEM INFORMATION - JOB#6301204

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

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		1 - 1 - AT - 3.0 TANK(H1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACDLA # 01-429862.	0	1
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL). TANK SOLD SEPARATELY. ANSUL PART # 429853; MACDLA # 01-429853.	0	1
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	1
		7 - 7 - 101-20 CARTRIDGE - CARBON DIOXIDE 101-20, 3 GALLON CARTRIDGE (R-102).	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACDLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACDLA # 08-437155.	0	1
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE RDPE) 434618 (OLD MACDLA #06-4835).	0	1
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACDLA # 11-415671.	0	10
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACDLA # 10-45771.	1	0
2		1 - 1 - AT - 3.0 TANK(H1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, DR SS ENCLOSURE (UL/ULC)) MACDLA # 01-429862.	0	2
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL). TANK SOLD SEPARATELY. ANSUL PART # 429853; MACDLA # 01-429853.	0	1
		3 - 3 - AP - AE ENCLOSURE - STAINLESS STEEL ENCLOSURE ASSEMBLY (UL), ANSUL PART # 429870; MACDLA # 01-429870.	0	1
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	2
		9 - 9 - 101-30 CARTRIDGE - CARBON DIOXIDE, 101-30, CARTRIDGE (R-102) 19-15851.	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACDLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACDLA # 08-437155.	0	1
		12 - 12 - HOSE/GROMMET HOSE - HOSE/GROMMET PACKAGE.	0	1
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE RDPE) 434618 (OLD MACDLA #06-4835).	0	1
	35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACDLA # 11-415671.	0	10	
	36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACDLA # 10-45771.	1	0	
	ADDITIONAL PARTS TO BE DETERMINED...			



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

REVISIONS

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SHEET NO.
3

EXHAUST FAN INFORMATION - JOB#6301204

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	PRV-1 RESTROOM	1	DR12HF8A	CAPTIVEAIRE	300	0.250	1010	TEAD-ECM	0.250	0.0440	1	115	2.9		53	3.7
2	PRV-2 GRIDDLE	1	DUB5HF8A	CAPTIVEAIRE	1500	1.412	1406	TEAD-ECM	0.750	0.5330	1	115	8.9	475 FPM	94	12.3
3	PRV-3 FRYER	1	DUB5HF8A	CAPTIVEAIRE	1500	1.250	1348	TEAD-ECM	0.750	0.4700	1	115	8.9	475 FPM	94	11.3
4	EF-1	2	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPOSE	0.116	0.0510	1	115	1.1		26	N/A

DOAS/RTU FAN SCHEDULE - JOB#6301204

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	ELECTRICAL INFORMATION										COOLING INFORMATION								REHEAT INFORMATION				ELECTRIC HEAT INFORMATION					NOTES					
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	LEAVING AIR DP	TOTAL CAPACITY	SENS.	IEER	ISMRE	DISCHARGE DB	DISCHARGE WB	CAPACITY DESIRED	CAPACITY MAX	MOISTURE REMOVAL RATE		DSGN. KW'S	MAX. KW'S	VOLTS	AMPS	TEMP RISE
5	RTU-1 DINING	1	CASRTU3-E.452-24-20T	CAPTIVEAIRE	24MF-3-RTU	4400	1750	6150	2680	0.750	10.00	3	208	143.4A	150A	83.0°F	80.0°F	77.2°F	67.8°F	53.7°F	53.7°F	53.8°F	263.7 MBH	156.6 MBH	18.2	6.0	70.0°F	60.1°F	112.7 MBH	129.6 MBH	98.4 LBS/HR	33	45	208	108.3	17 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
6	RTU-2 KITCHEN	1	CASRTU3-E.452-24-20T	CAPTIVEAIRE	24MF-3-RTU	4525	1700	6225	2679	0.750	10.00	3	208	143.4A	150A	83.0°F	80.0°F	77.2°F	67.7°F	53.7°F	53.7°F	53.8°F	262.6 MBH	157.8 MBH	18.2	6.0	70.0°F	60.1°F	114 MBH	129.6 MBH	96.0 LBS/HR	28	45	208	108.3	15 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

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
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
12. FULLY MODULATING HOT GAS REHEAT
13. MIAMI DADE RATED
14. HAIL GUARD FOR CONDENSING COIL
15. RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL
16. BAROMETRIC RELIEF DAMPER
17. DOWN DISCHARGE/DOWN RETURN

REVISIONS

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FAN OPTIONS

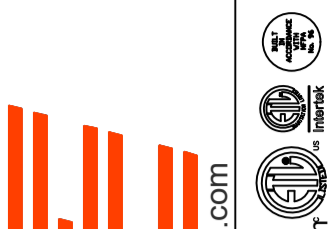
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PRV-1 RESTROOM	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM DOWNBLAST 10
		1	2 YEAR PARTS WARRANTY
2	PRV-2 GRIDDLE	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FDR GREASE DUCTS
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
3	PRV-3 FRYER	1	2 YEAR PARTS WARRANTY
		1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FDR GREASE DUCTS
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
4	EF-1	1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		2	MG1 - METAL GRILLE KIT
		2	FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN
5	RTU-1 DINING	2	2 YEAR PARTS WARRANTY
		1	RTU TOTAL CFM MONITORING
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	FREEZESTAT
		1	OCCUPIED SCHEDULING
		1	RTU3 CURB DUCT HANGER
		1	120V FIRE INPUT
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU3 MIAMI DADE CERTIFICATION
		1	SINGLE POINT CONNECTION - ELECTRIC HEATER RTU. BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, 'MA', OR 'E2' PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL
		1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONOMIZER BAROMETRIC RELIEF
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 HAIL GUARD
		1	RTU3 DOWN RETURN
1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT		
6	RTU-2 KITCHEN	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	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	OCCUPIED SCHEDULING
		1	RTU3 CURB DUCT HANGER
		1	120V FIRE INPUT
		1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU3 MIAMI DADE CERTIFICATION
		1	SINGLE POINT CONNECTION - ELECTRIC HEATER RTU. BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, 'MA', OR 'E2' PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING REHEAT OPTION - DISCHARGE DEWPOINT CONTROL
		1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONOMIZER BAROMETRIC RELIEF
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 HAIL GUARD
		1	RTU3 DOWN RETURN
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	PRV-1 RESTROOM		YES					
2	PRV-2 GRIDDLE	YES						
3	PRV-3 FRYER	YES						
4	EF-1							

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3/4" = 1'-0"

MASTER DRAWING

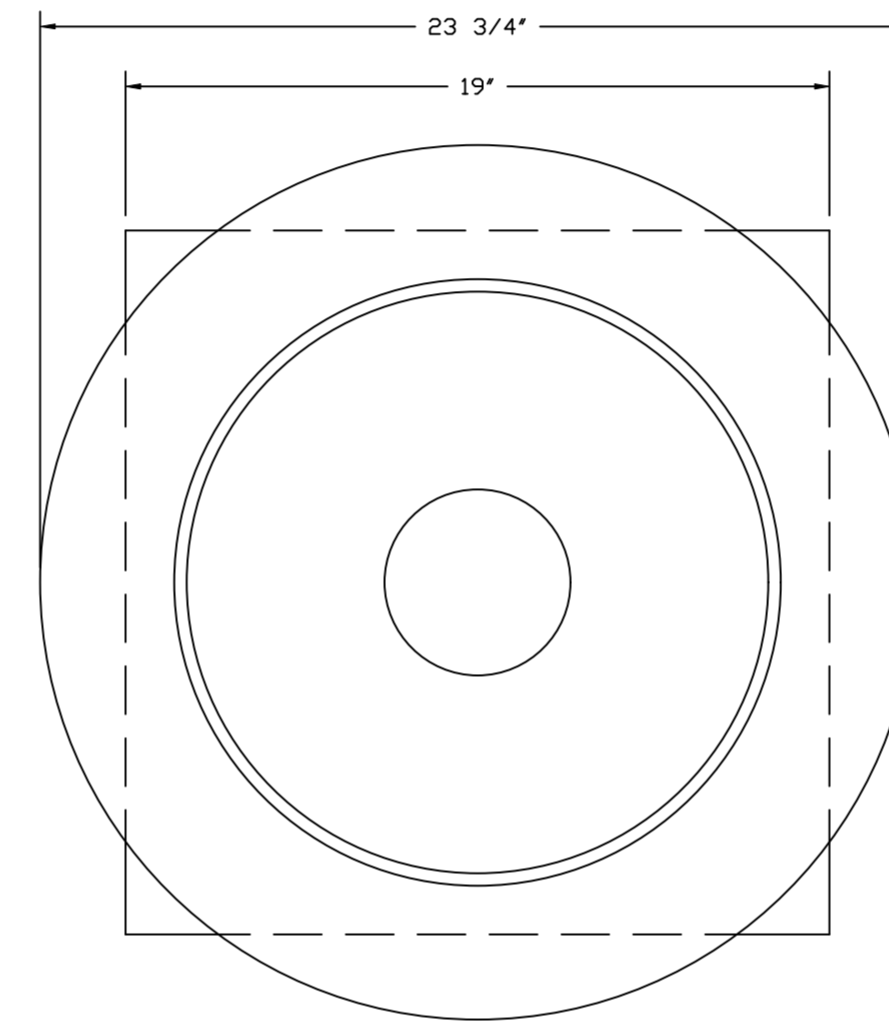
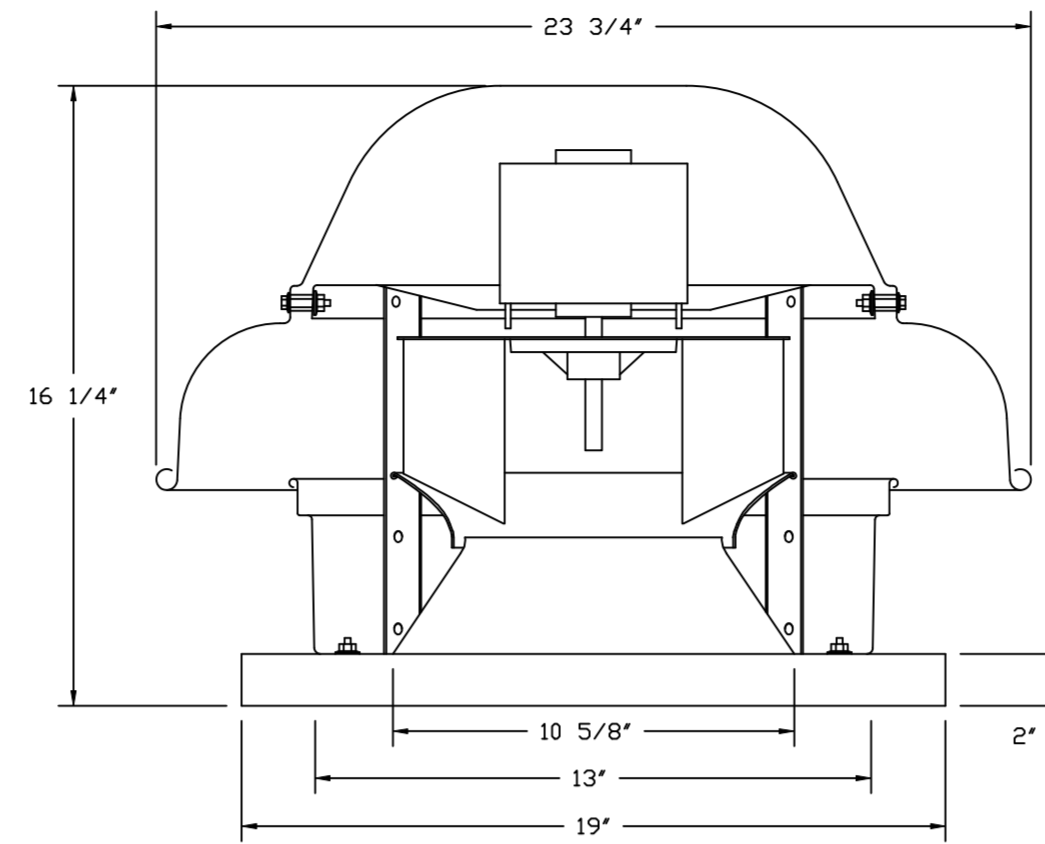
SHEET NO.
5

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	PRV-1 RESTROOM	25 LBS	CURB	17.500"W X 17.500"L X 20.000"H
2	# 2	PRV-2 GRIDDLE	78 LBS	CURB	23.000"W X 23.000"L X 28.000"H HINGED 16 GAUGE.
3	# 3	PRV-3 FRYER	78 LBS	CURB	23.000"W X 23.000"L X 28.000"H HINGED 16 GAUGE.
5	# 5	RTU-1 DINING	104 LBS	CURB	59.500"W X 91.000"L X 14.000"H 0.250-12.000 PITCH ALONG WIDTH, LEFT INSULATED.
6	# 6	RTU-2 KITCHEN	104 LBS	CURB	59.500"W X 91.000"L X 14.000"H 0.250-12.000 PITCH ALONG WIDTH, LEFT INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #5	HMI #1 - UNIT HMI #1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #5	HMI #2 - SPACE HMI #1		AVERAGED	56
FAN #6	HMI #1 - UNIT HMI #1	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #6	HMI #2 - SPACE HMI #1		AVERAGED	56

FAN #1 DR12HFA - EXHAUST FAN (PRV-1 RESTROOM)



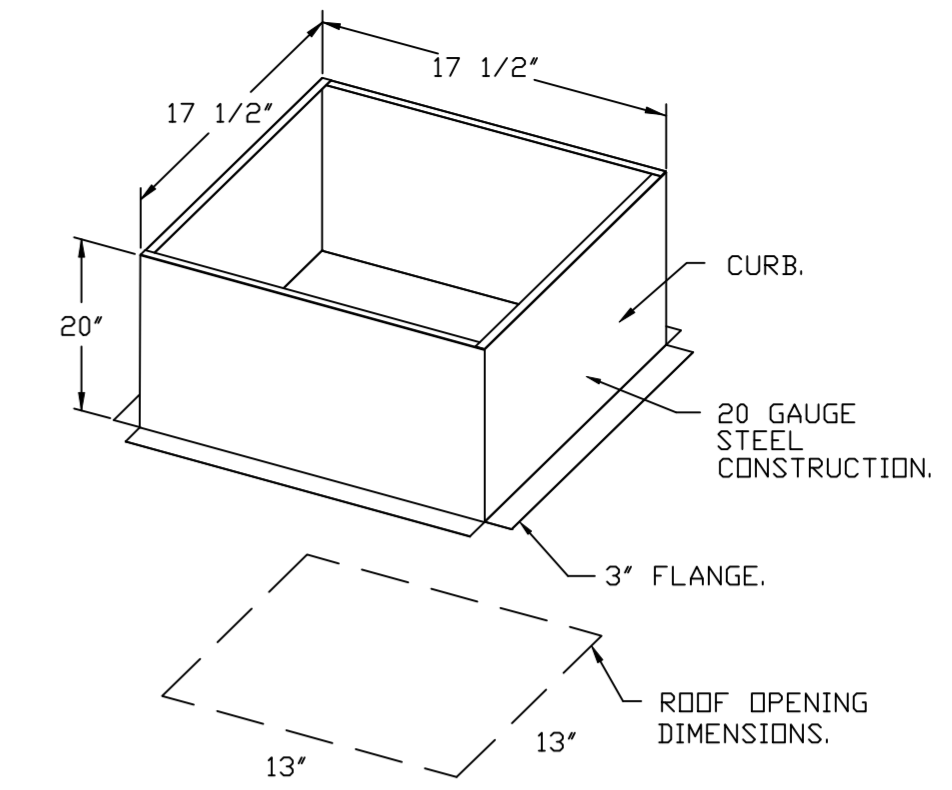
TOP VIEW

FEATURES:

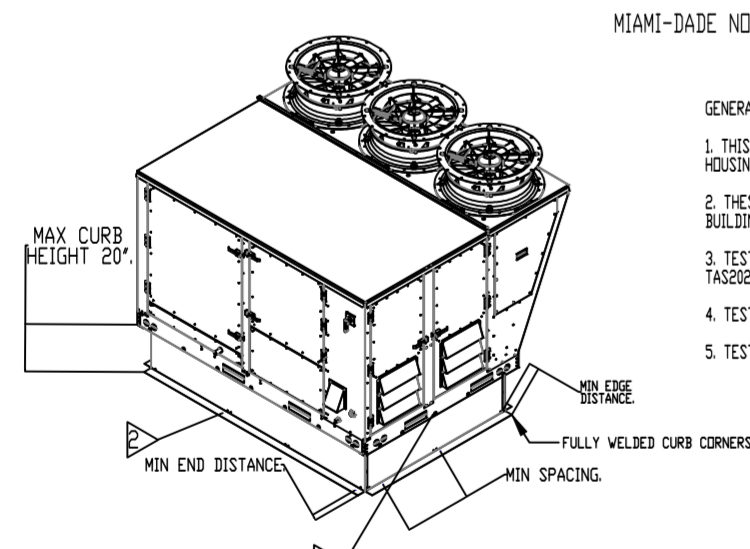
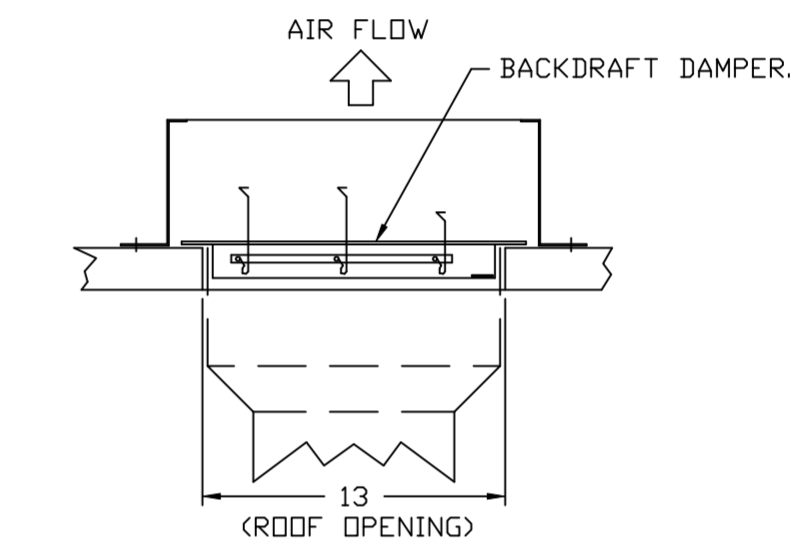
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

- 1 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL.
- RTC- (TELCO MOTOR), CCW ROTATION.
- MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM DOWNBLAST 10.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



MIAMI-DADE NDA6 RTU

GENERAL NOTES:

- THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
- THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS200 (A)-95.
- TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, T4S201, T4S202, T4S203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-15071.

INSTALLATION INSTRUCTIONS:

- REMOVE DAMPER AND LID TO EXPOSE 1/4\"/>

CURB MATERIAL:
20\"/>

DESIGN PRESSURE: +150 / -150 PSF.
LARGE MISSILE IMPACT RESISTANT.

FAN MODEL	CURB TO FAN (ROOF)				WOOD (SG = 0.42 MIN.)				STEEL (12 GAUGE MIN.)				CONCRETE (2000 PSI MIN. CRACKED CONCRETE)			
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
RTU0	7	5	24	14	10	48	12	8	40	12	9	42				

MIAMI-DADE NDA1 ALUMINUM DOWN-BLAST FANS

GENERAL NOTES:

- THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
- THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS200 (A)-95.
- TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, T4S201, T4S202, T4S203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-08853.

INSTALLATION INSTRUCTIONS:

- SECURE LID TO FAN USING (8) 1/4\"/>

CURB MATERIAL:
20\"/>

DESIGN PRESSURE: +150 / -150 PSF.
LARGE MISSILE IMPACT RESISTANT.

FAN MODEL	CURB TO FAN (ROOF)				WOOD (SG = 0.42 MIN.)				STEEL (12 GAUGE MIN.)				CONCRETE (2000 PSI MIN. CRACKED CONCRETE)			
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
DR12	3	12	3	12	3	12	3	12	3	12	3	12	3	12	3	12

MIAMI-DADE NDA1 ALUMINUM UP-BLAST FANS

GENERAL NOTES:

- THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY. IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
- THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS200 (A)-95.
- TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL, T4S201, T4S202, T4S203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-08853.

INSTALLATION INSTRUCTIONS:

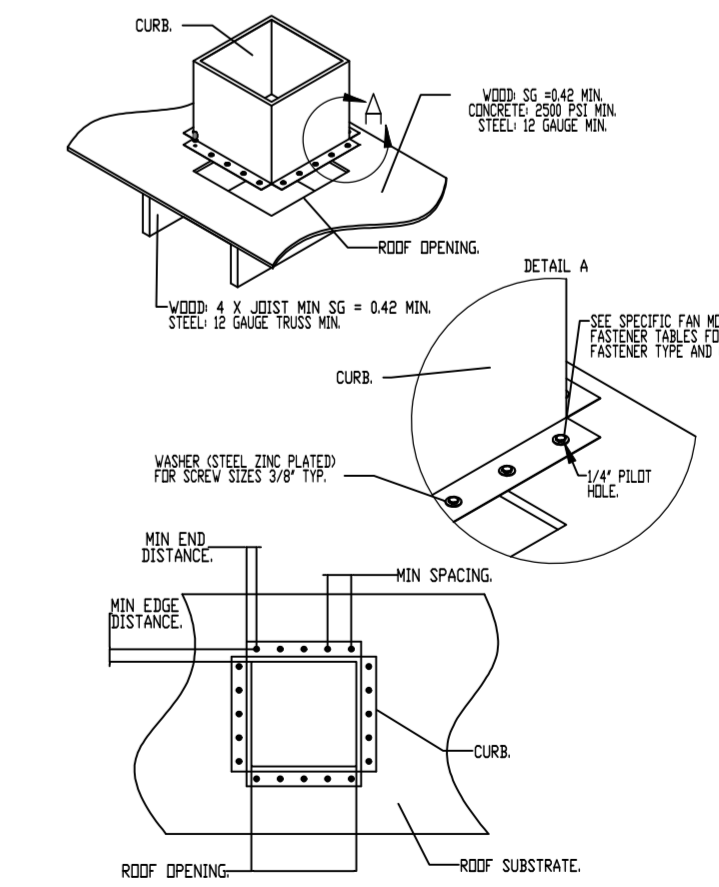
- SECURE LID TO FAN USING (8) 1/4\"/>

CURB MATERIAL:
20\"/>

DESIGN PRESSURE: +150 / -150 PSF.
LARGE MISSILE IMPACT RESISTANT.

FAN MODEL	CURB TO FAN (ROOF)				WOOD (SG = 0.42 MIN.)				STEEL (12 GAUGE MIN.)				CONCRETE (2000 PSI MIN. CRACKED CONCRETE)			
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
BURS	3	12	3	12	4	16	4	16	5	20	5	20	4	16	4	16

MIAMI-DADE COUNTY - CURB ROOF INSTALLATION GUIDE



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DESCRIPTION	DATE:

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Labelle, FL, 33935

DATE: 10/26/2023

DWG.#:
6301204

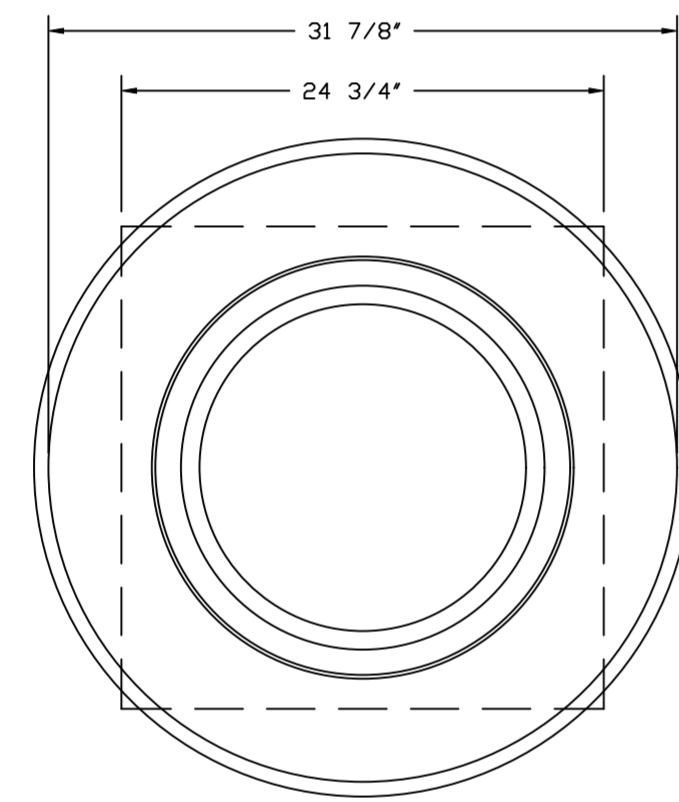
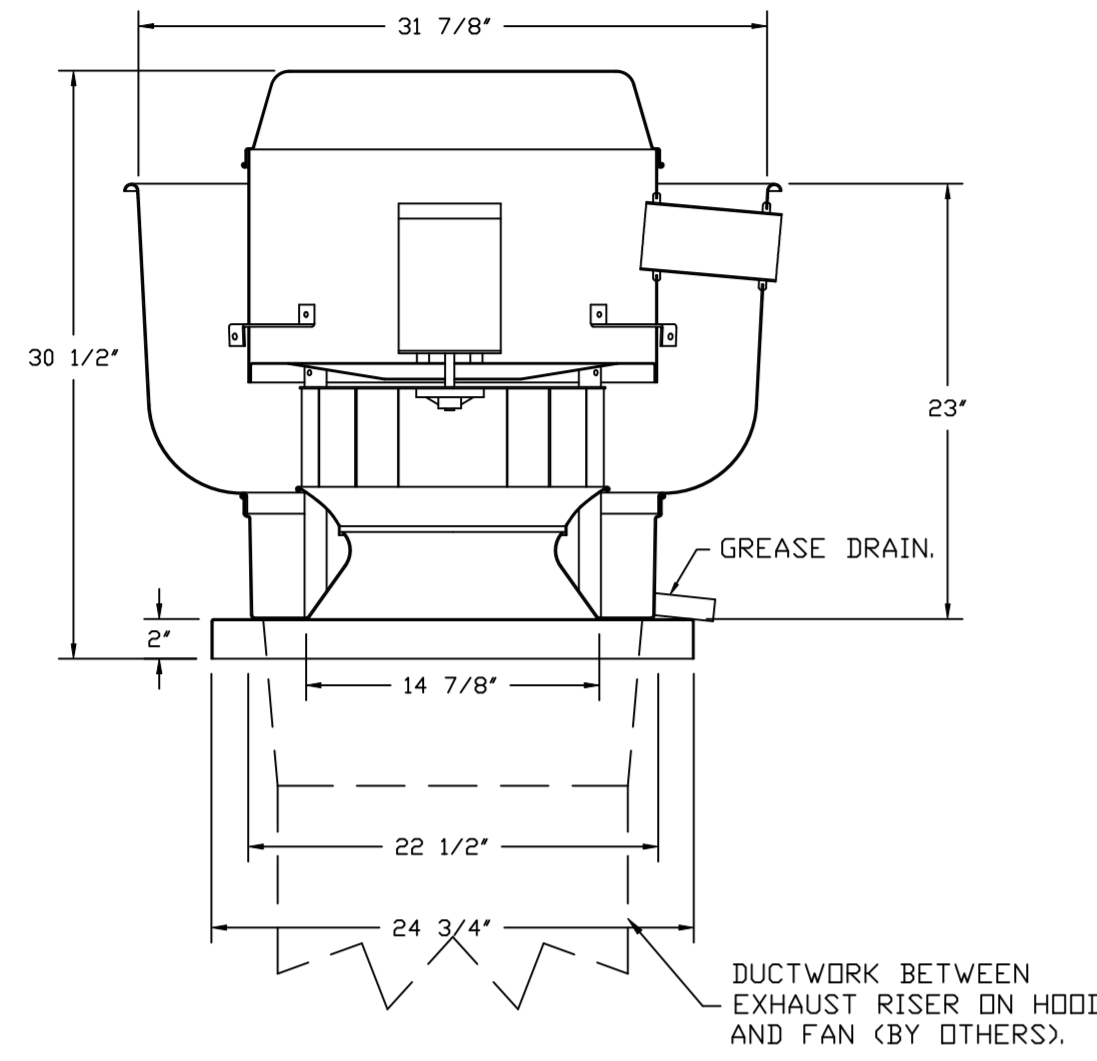
DRAWN BY: studdyjr

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

MASTER DRAWING

SHEET NO.
6

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



TOP VIEW

FEATURES:

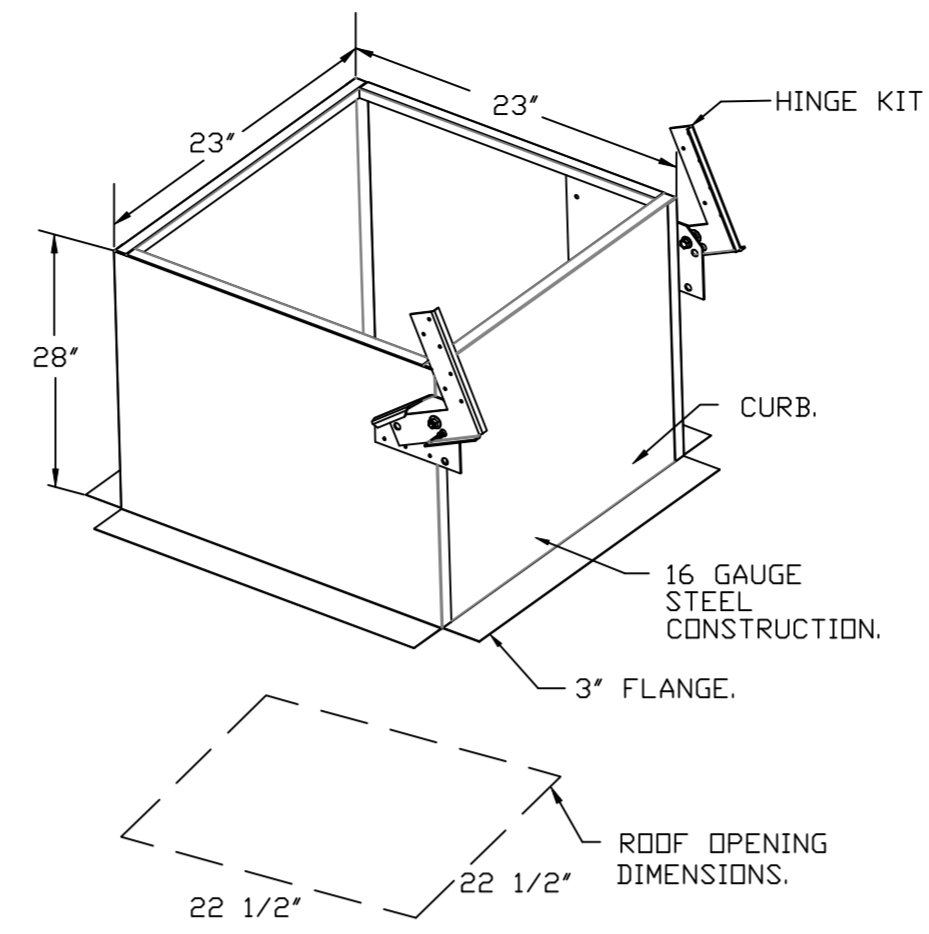
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

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

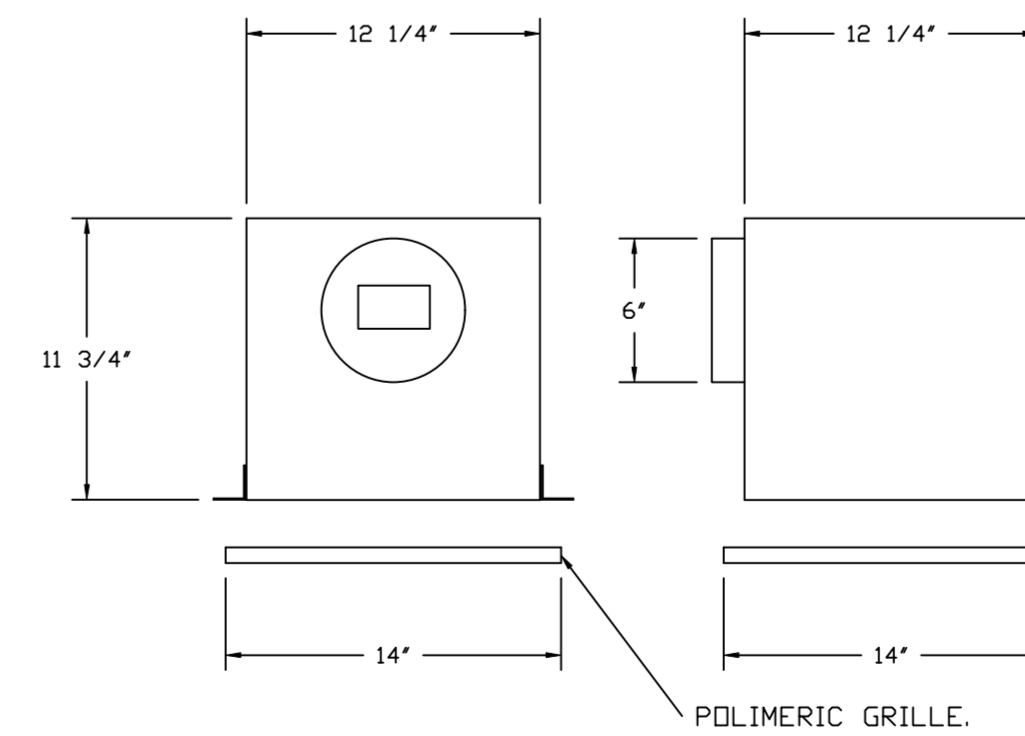
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - SHIP LOOSE
- FDR GREASE DUCTS.
- MIAMI BASE CERTIFICATION - NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL
- RTC- (TELED MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



FAN #4 CFA 100CA - EXHAUST FAN (EF-1)



FEATURES:

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

OPTIONS

- MGI - METAL GRILLE KIT.
- FAN CONTROL - 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
- 2 YEAR PARTS WARRANTY.

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Labelle, FL, 33935

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6301204

DRAWN BY: sluddyjr

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

MASTER DRAWING

SHEET NO.
7

GREASE BOX INSTALLATION

GREASEBOX
REV.#2 08/19/02

PARTS INCLUDED

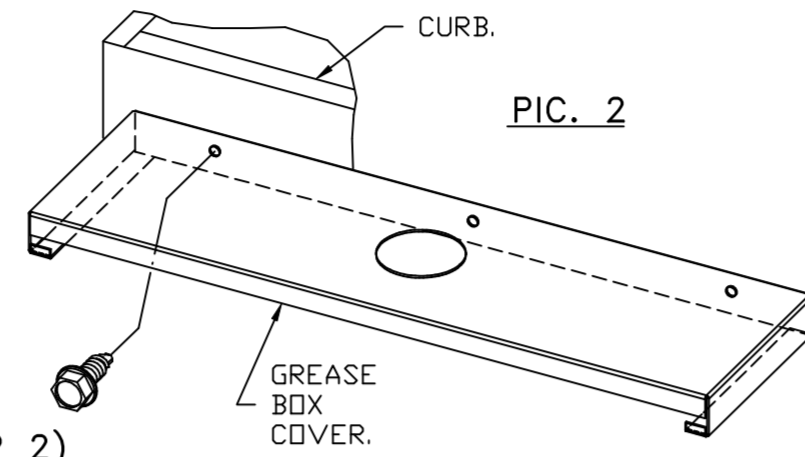
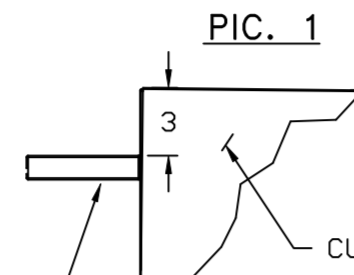
GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

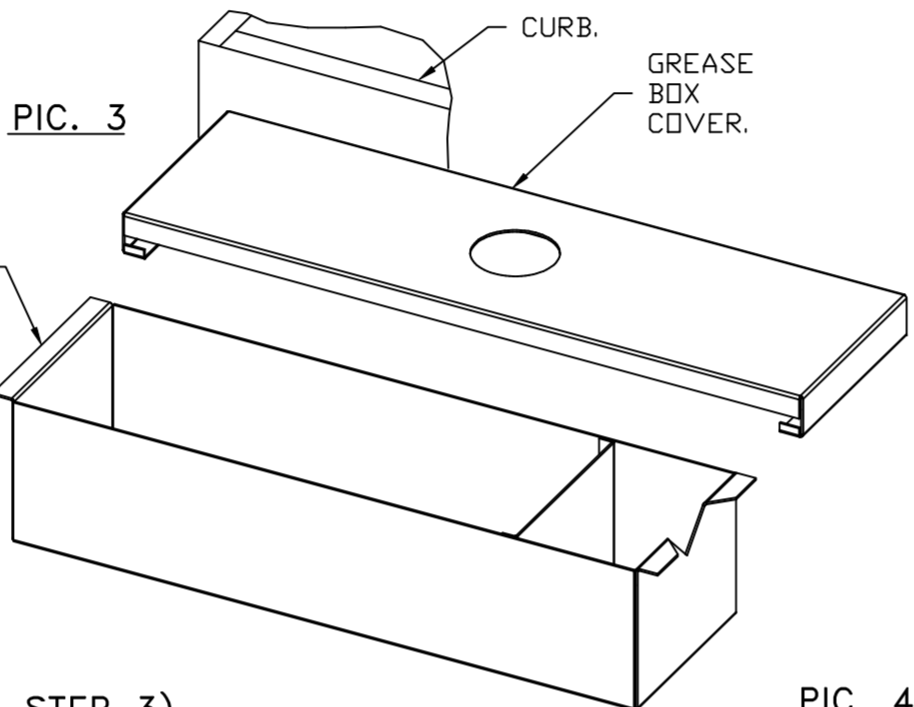
STEP 1)

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



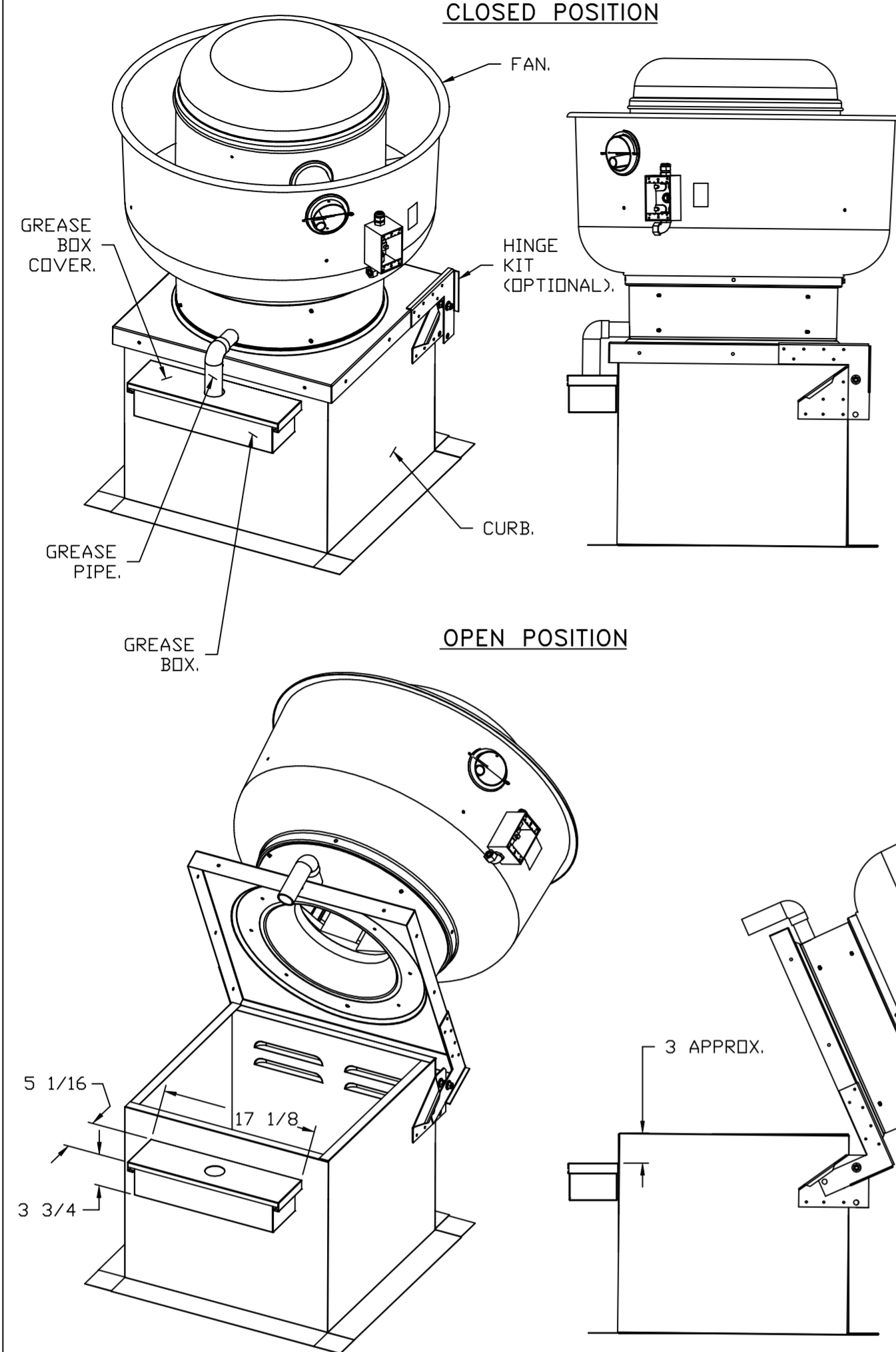
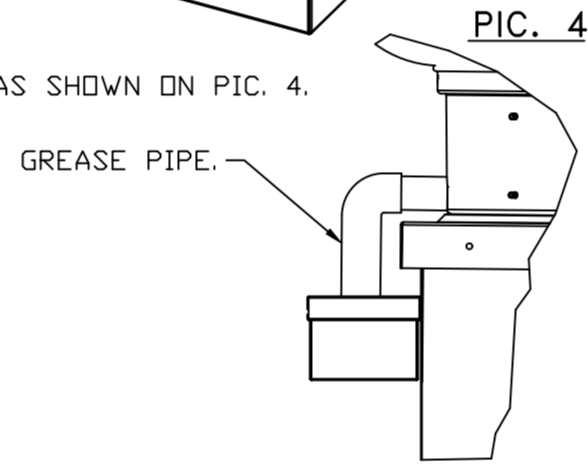
STEP 2)

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

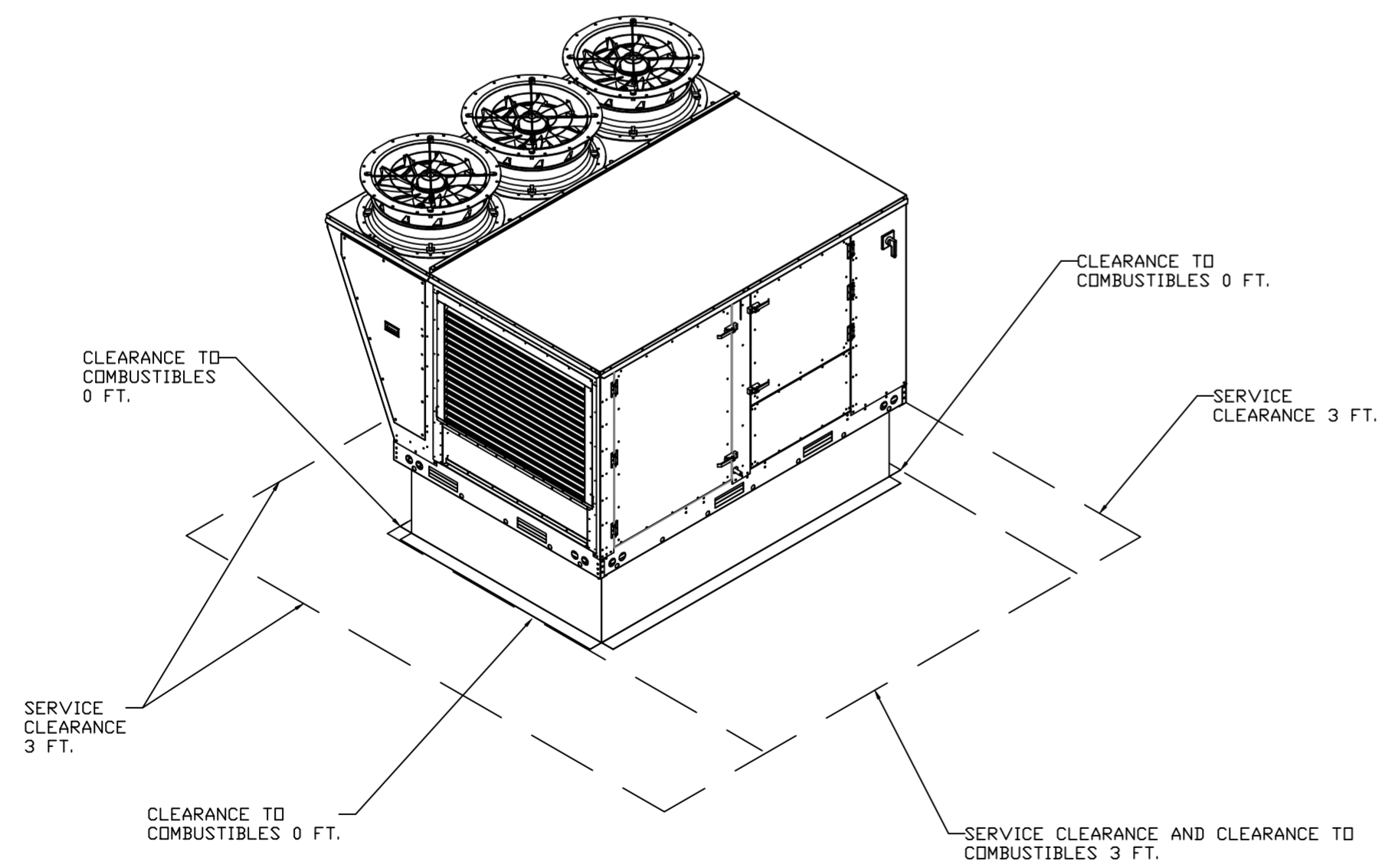


STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

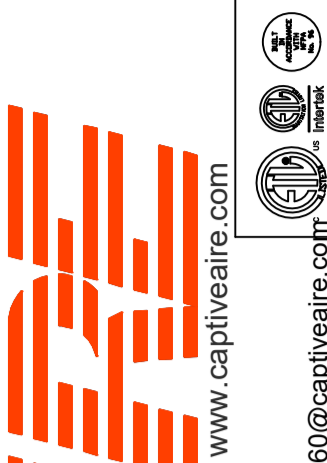


*NOTE: UL 705 INSTALL.



REVISIONS

REVISIONS	DESCRIPTION	DATE:
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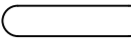
DRAWN BY: sluddy jr

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

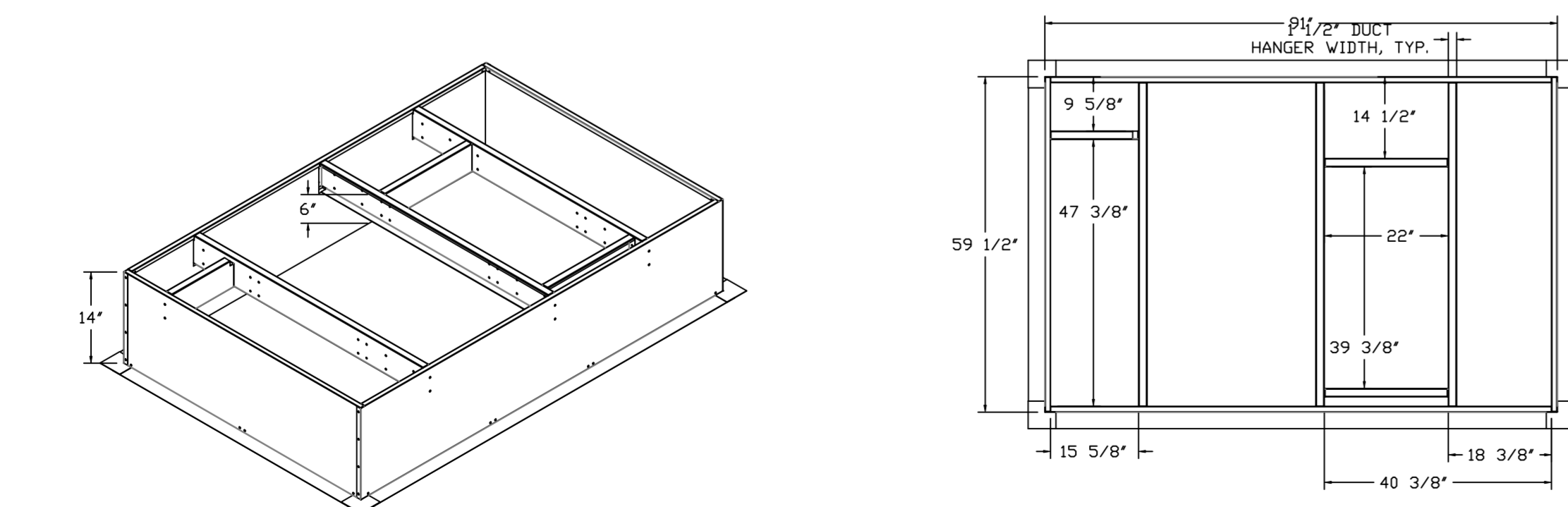
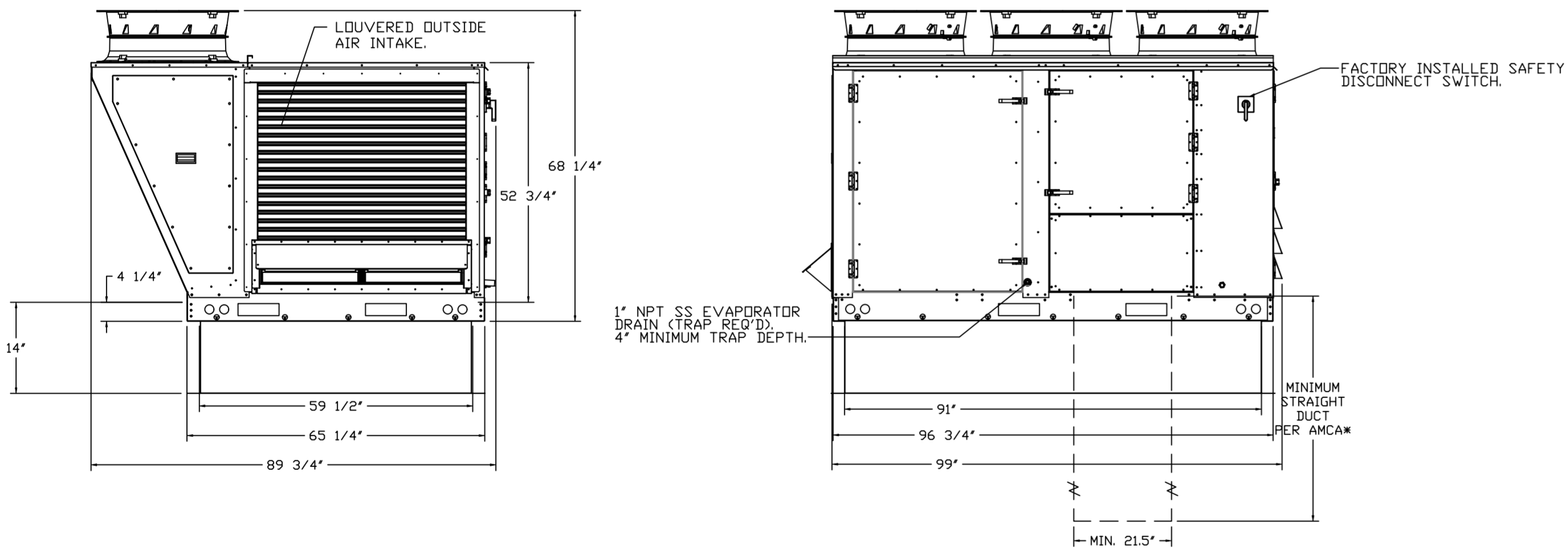
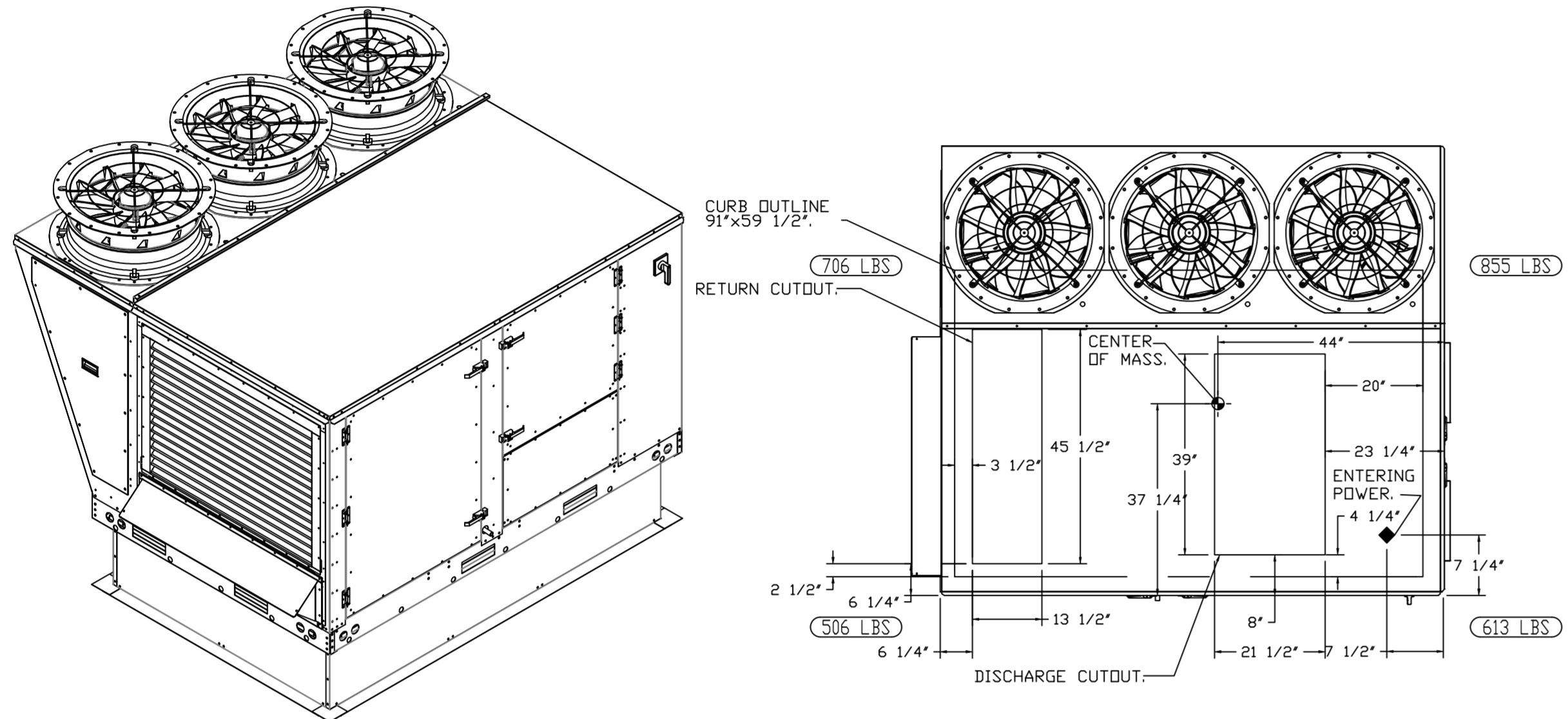
MASTER DRAWING

SHEET NO.
8

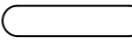
NOTES:

- 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.

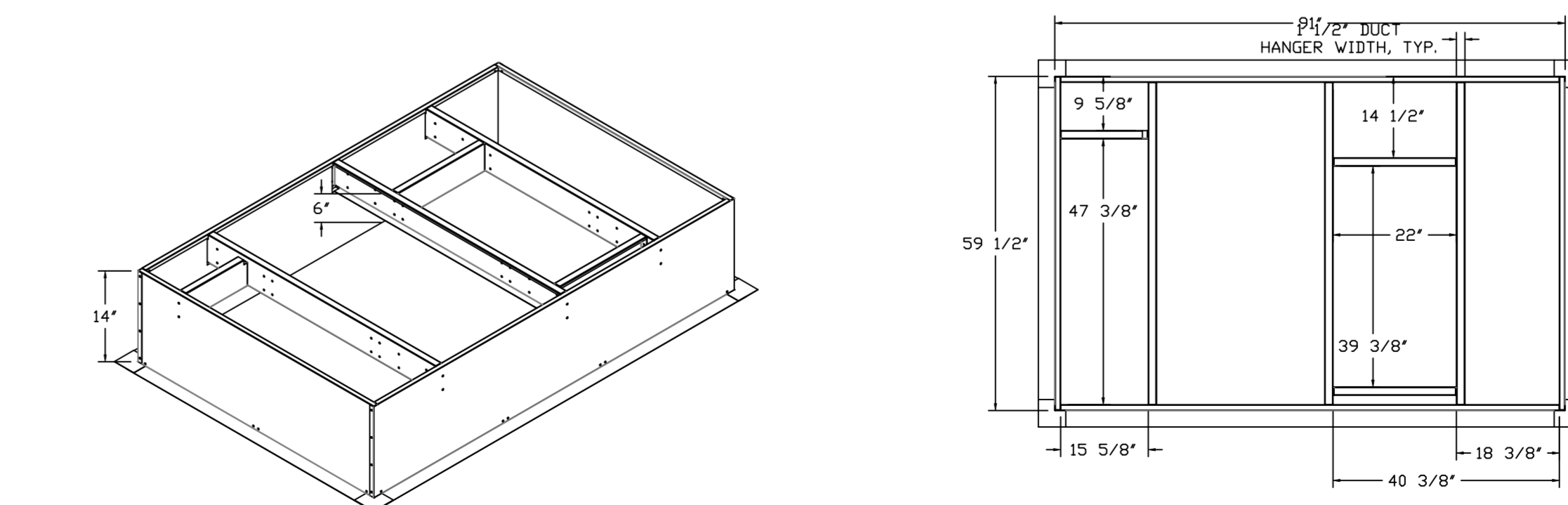
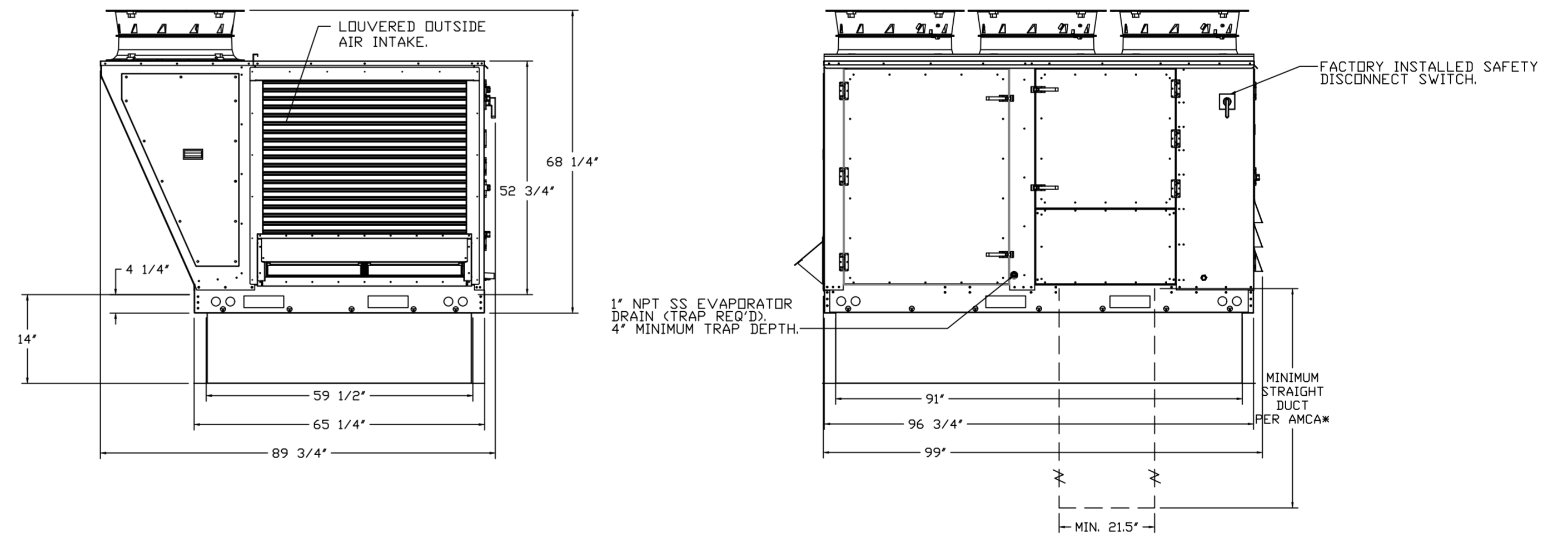
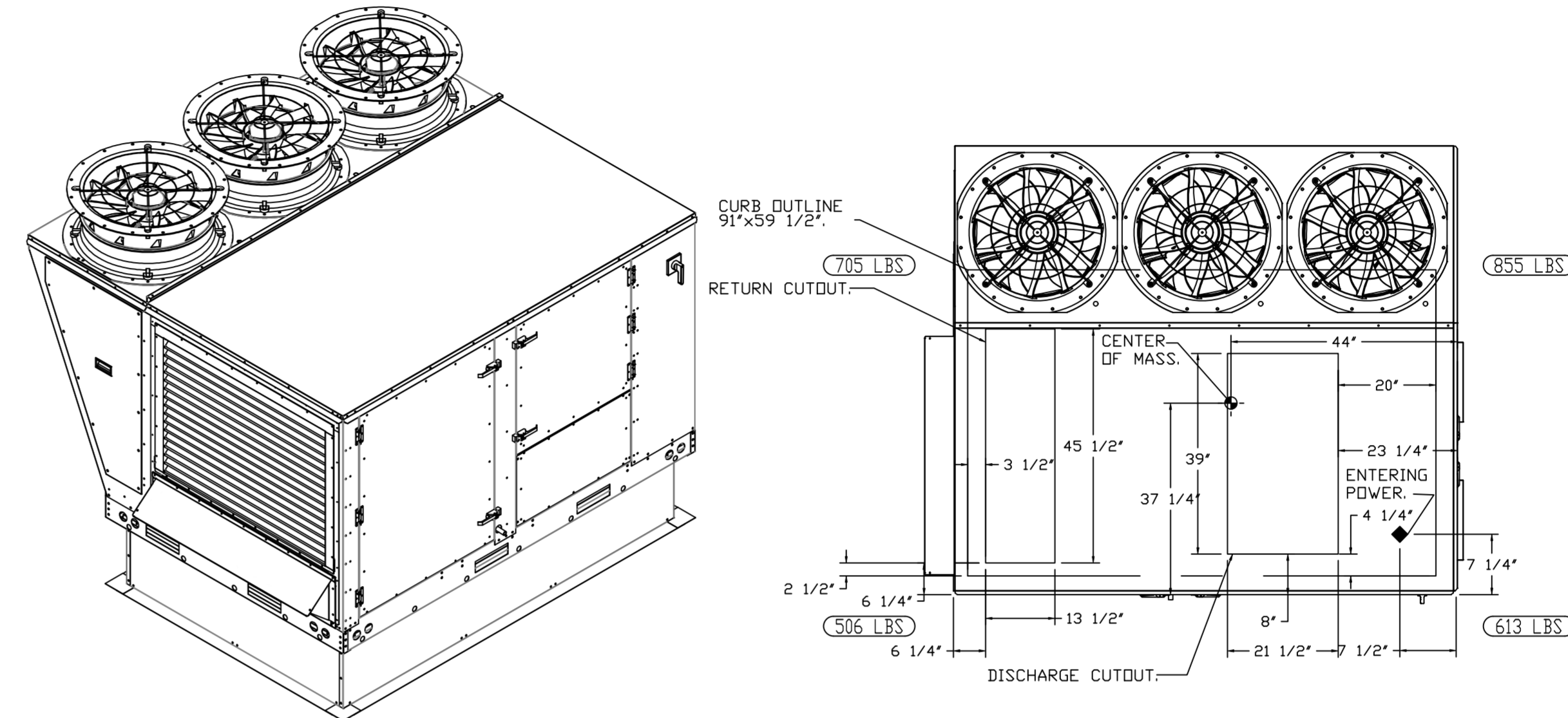
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE 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 21.5" x 39".



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 21.5" x 39".



REVISIONS

DESCRIPTION	DATE

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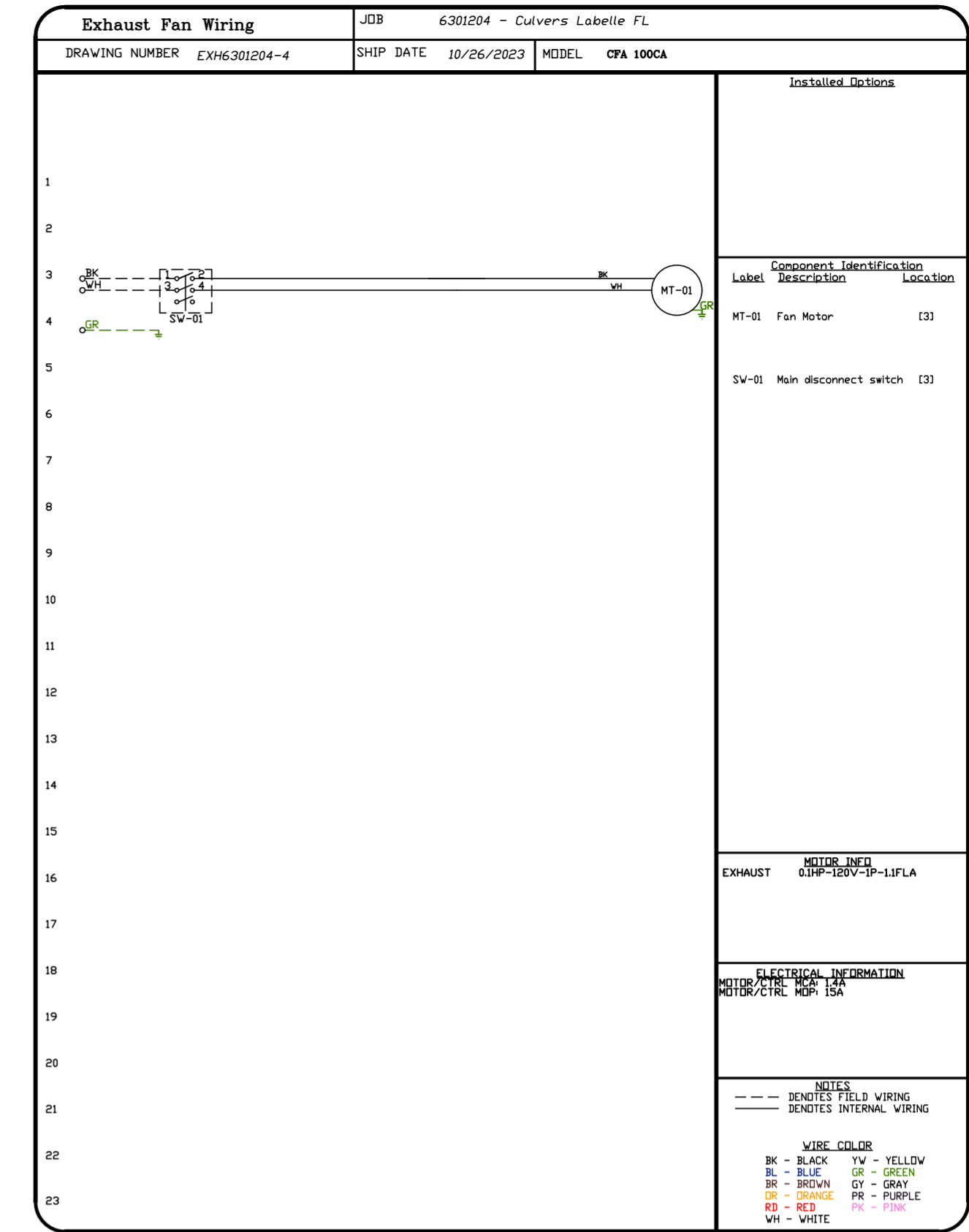
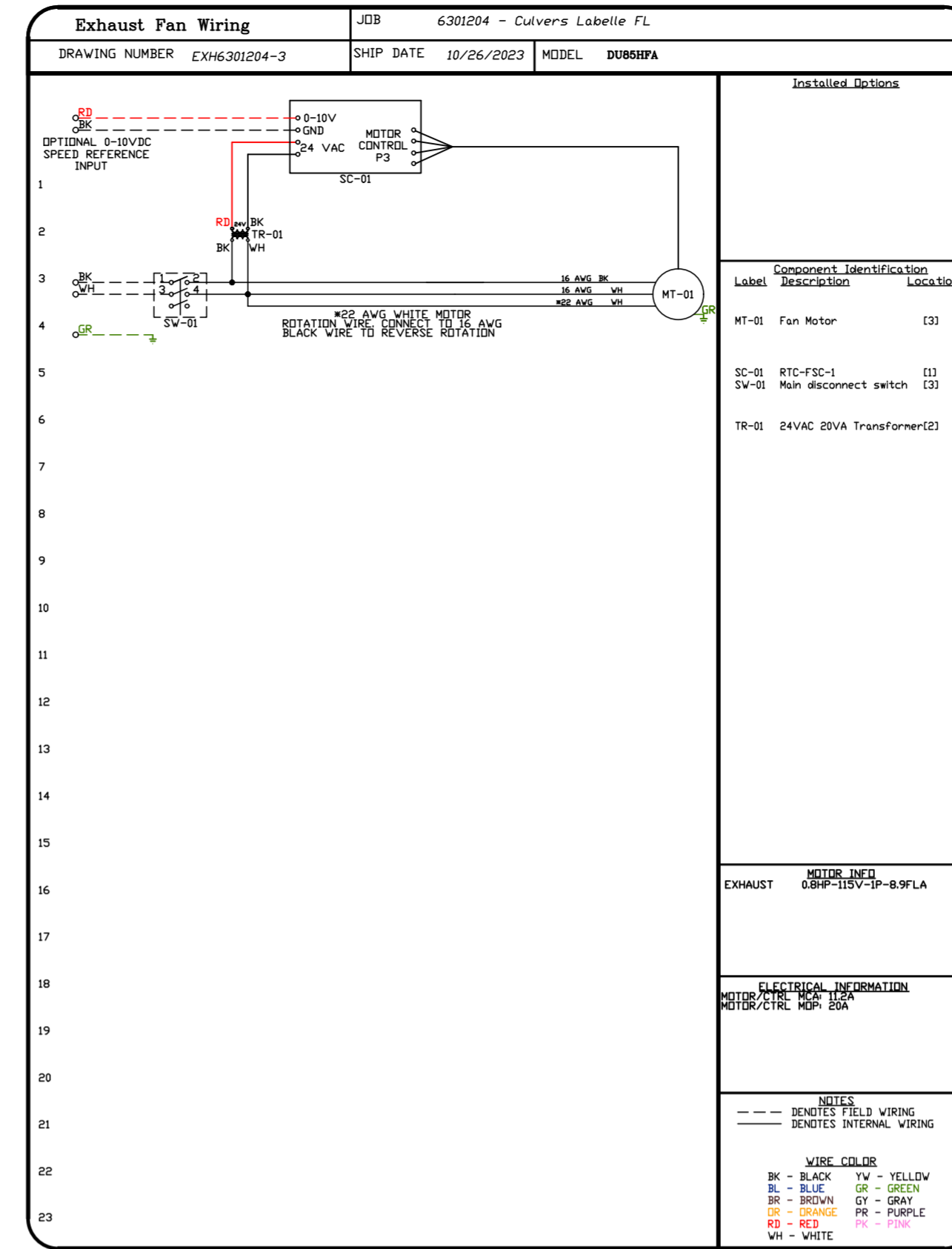
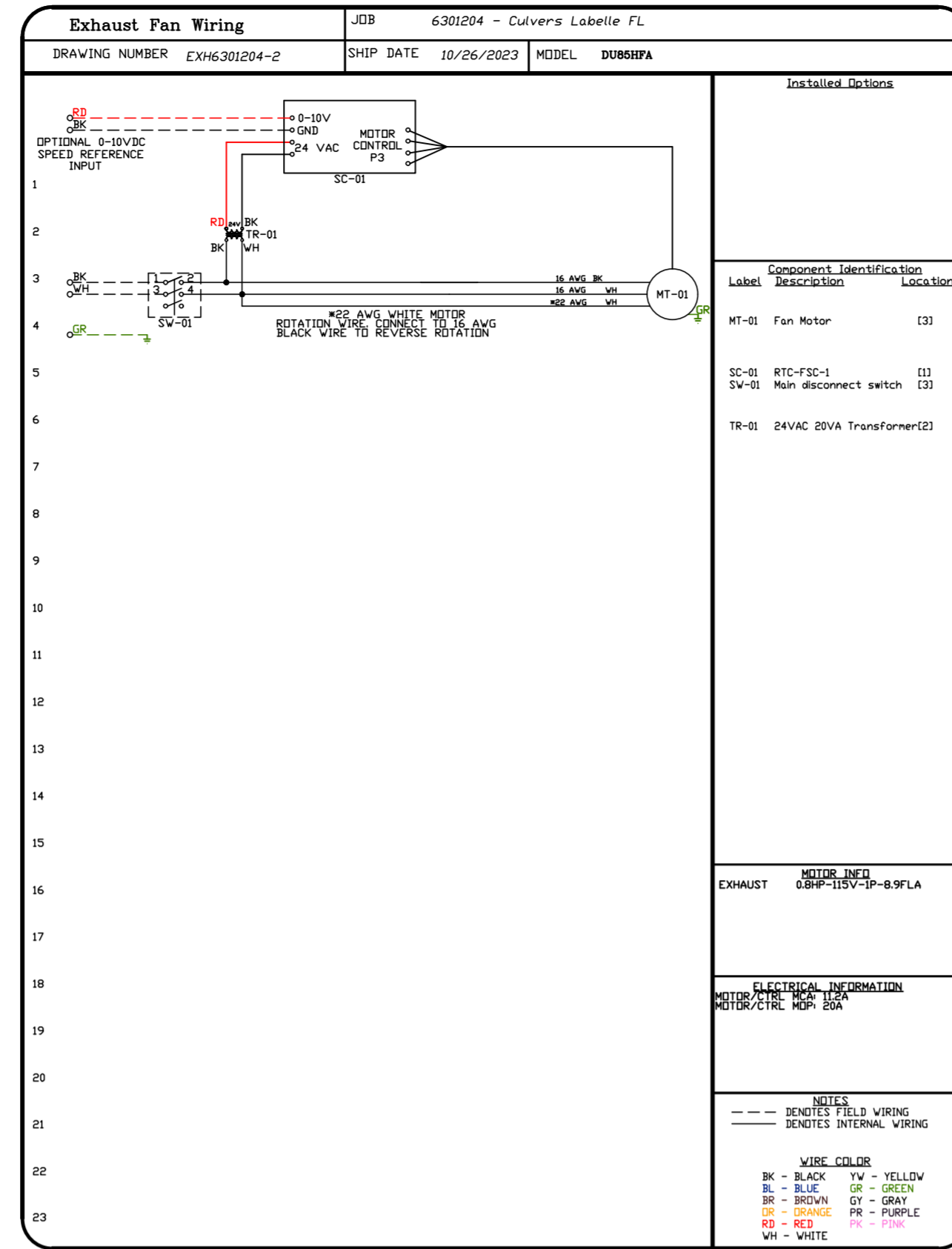
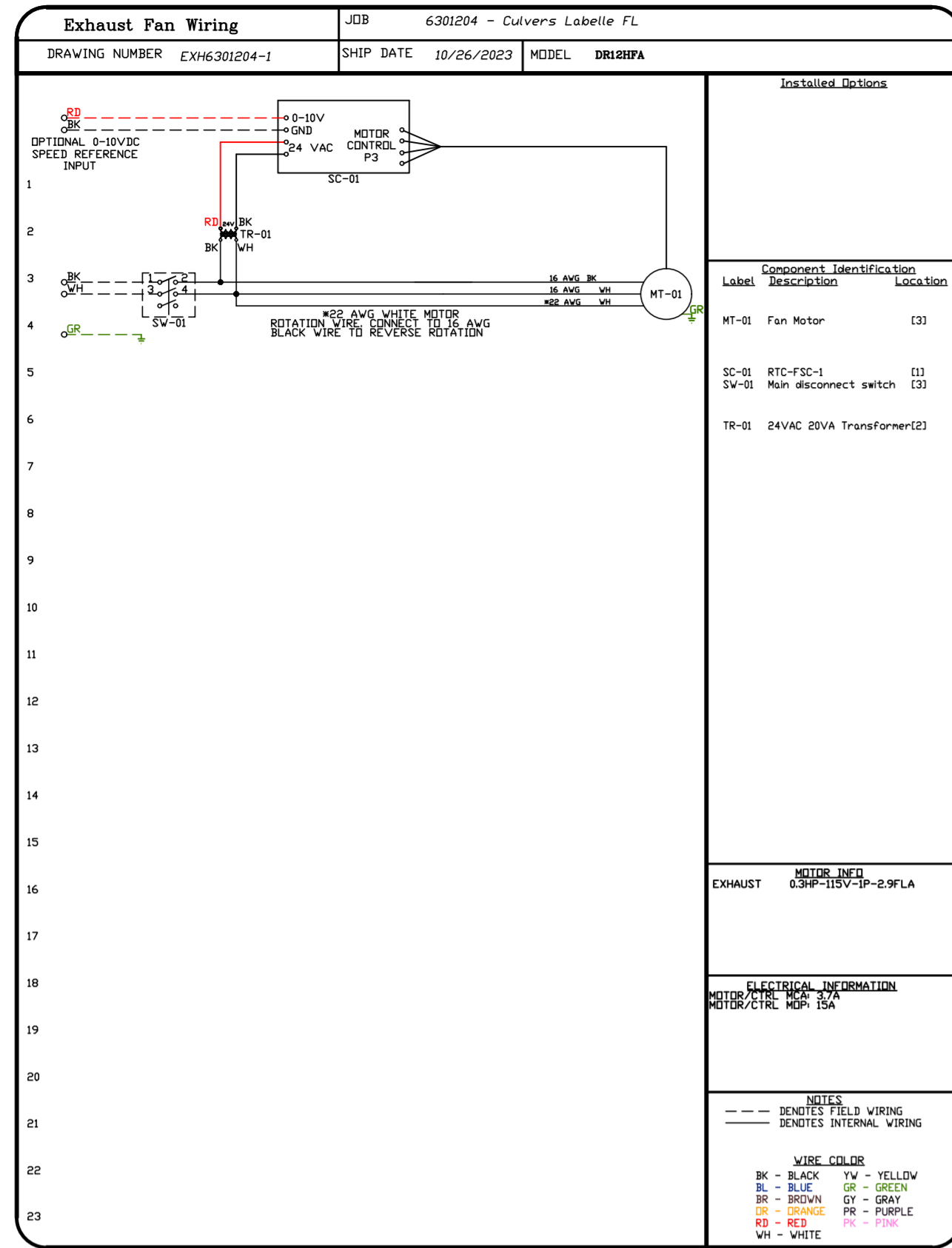
DWG.#: 6301204

DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO. 9



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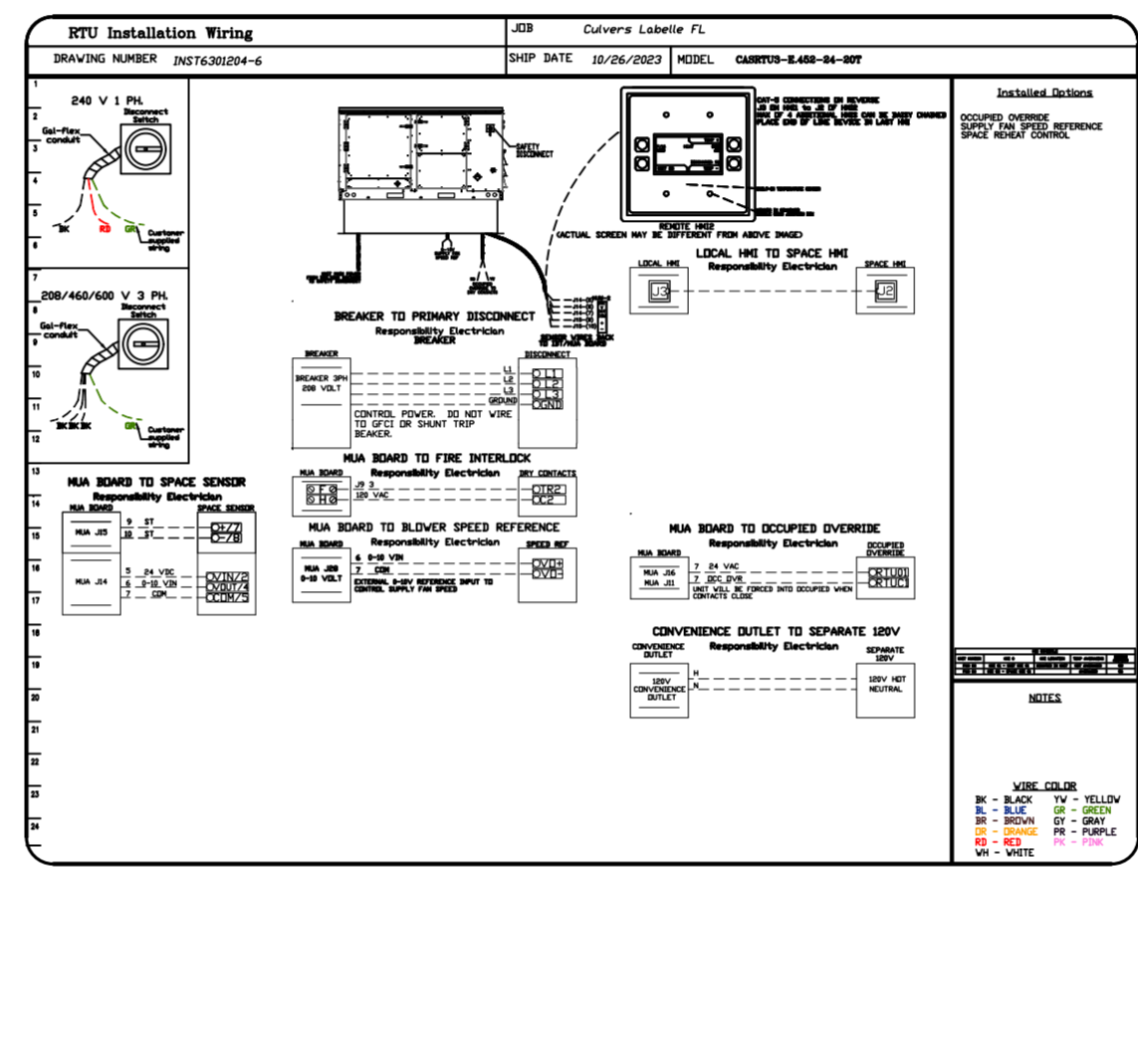
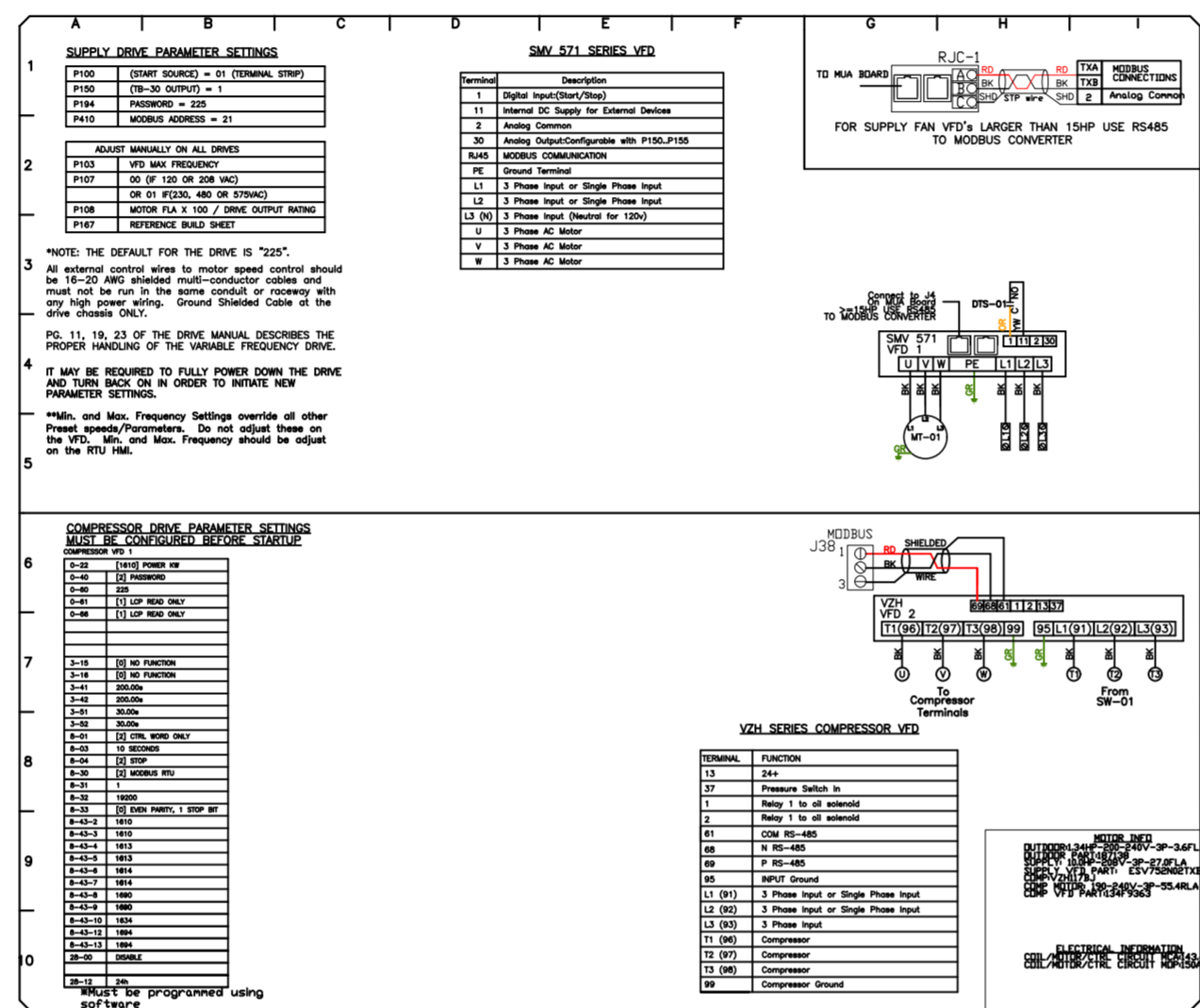
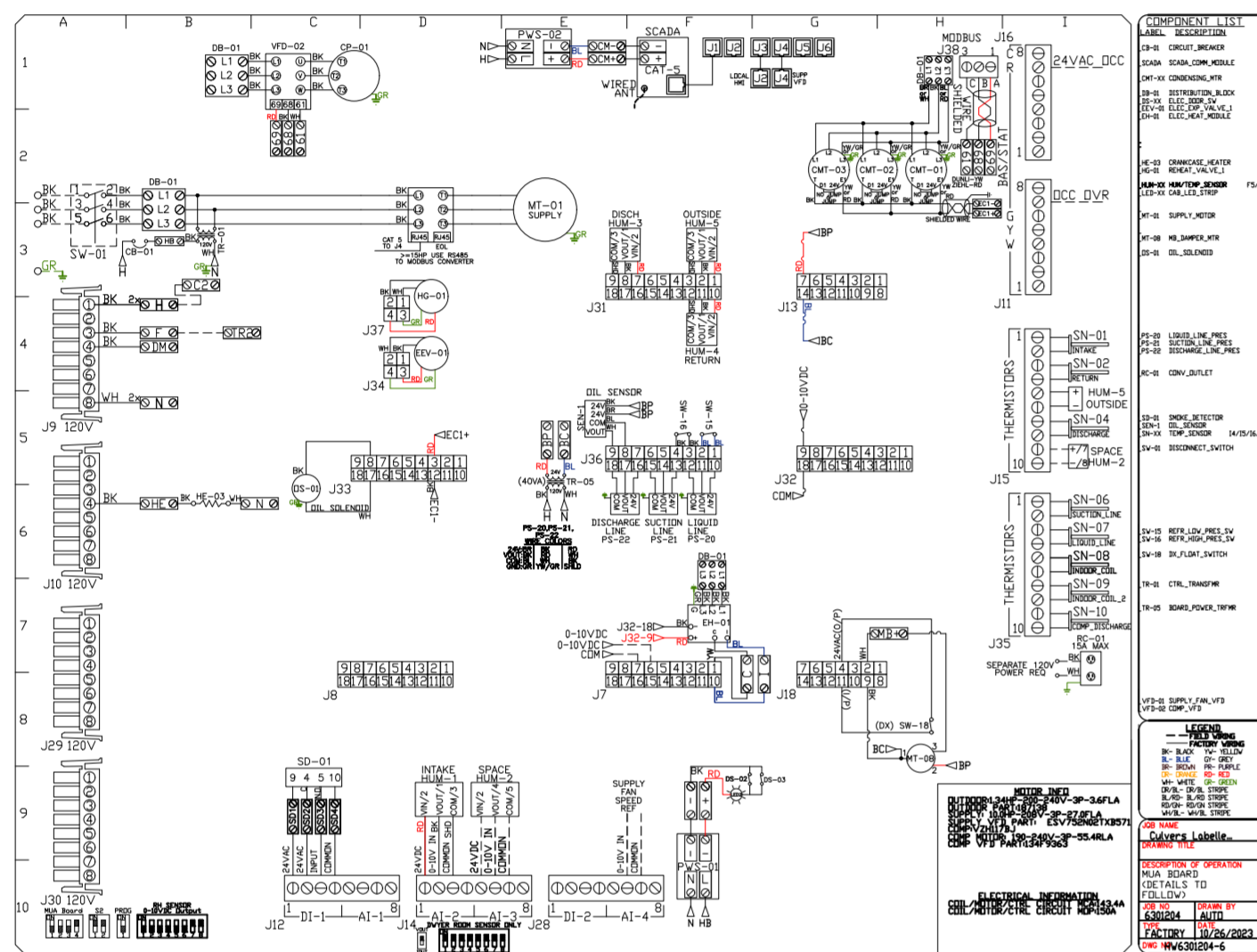
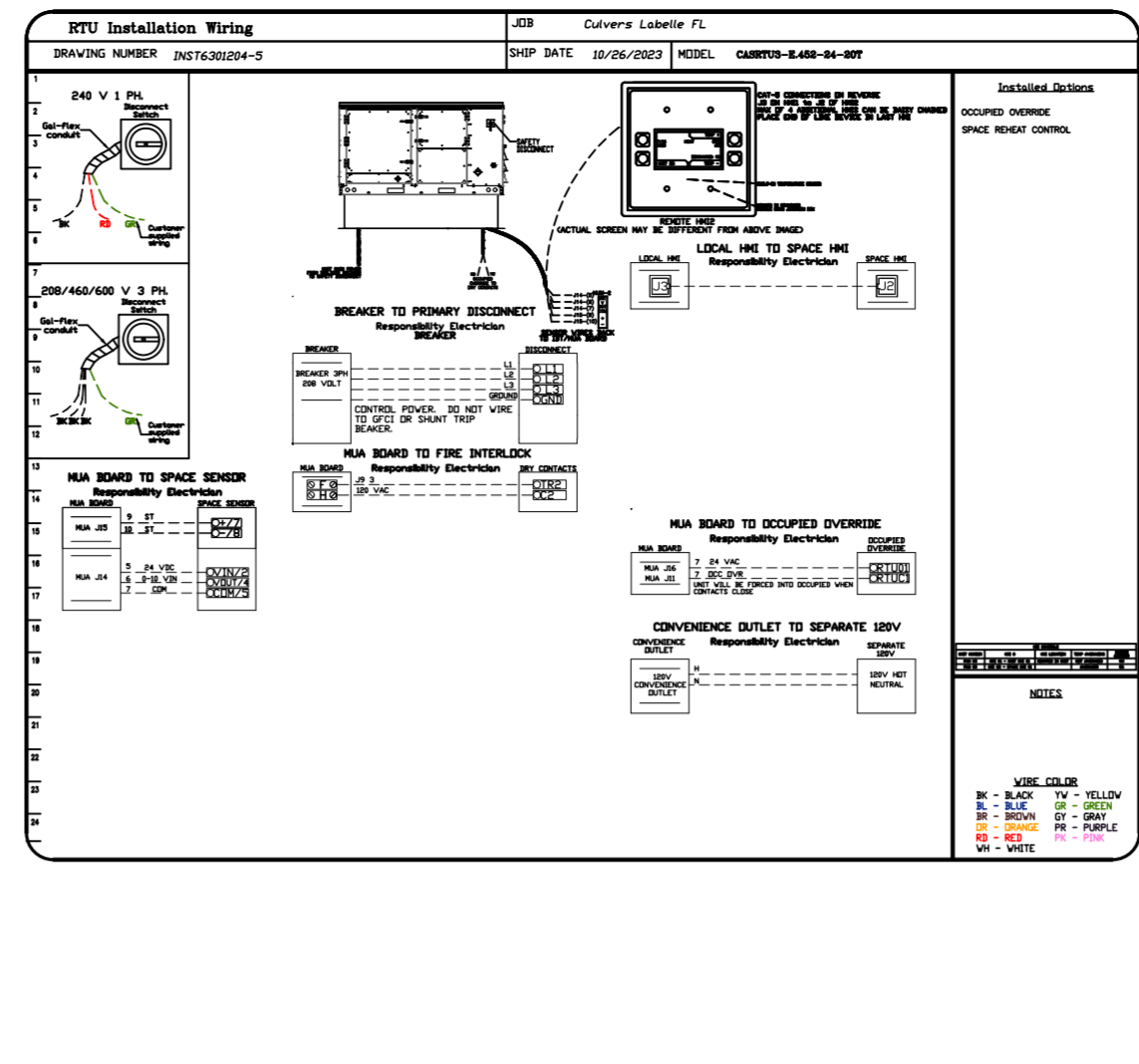
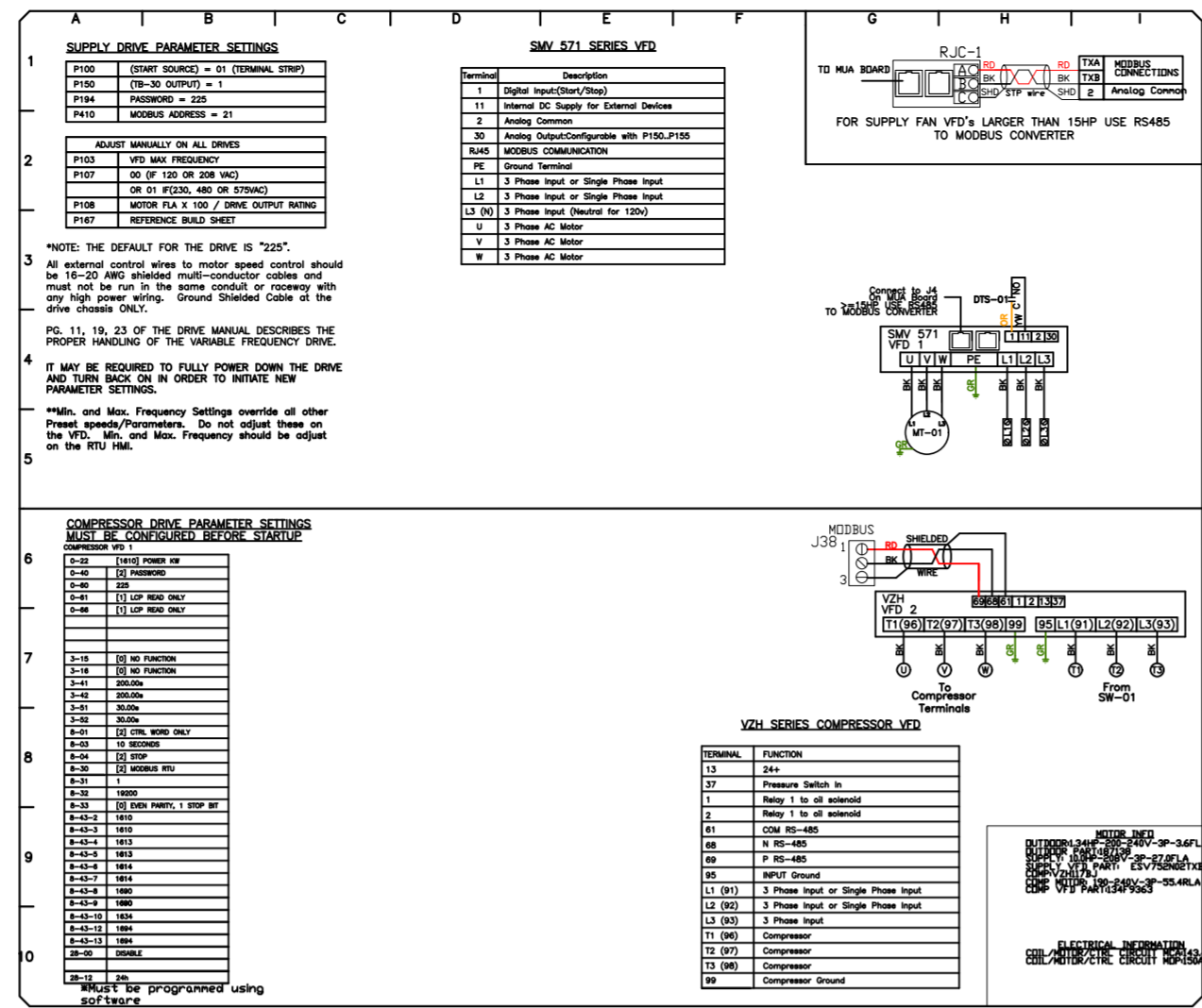
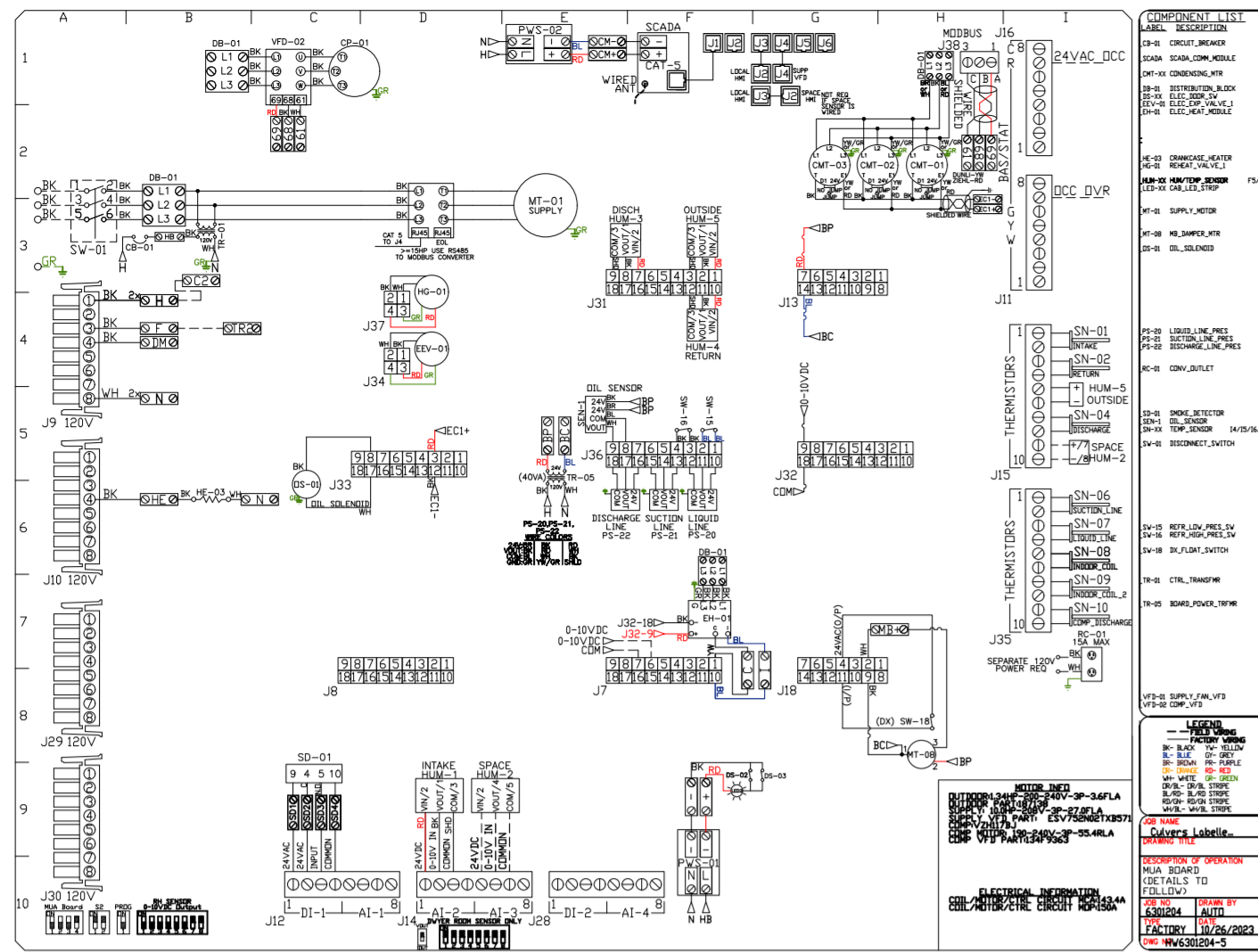
DRAWN BY: sluddy jr

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

MASTER DRAWING

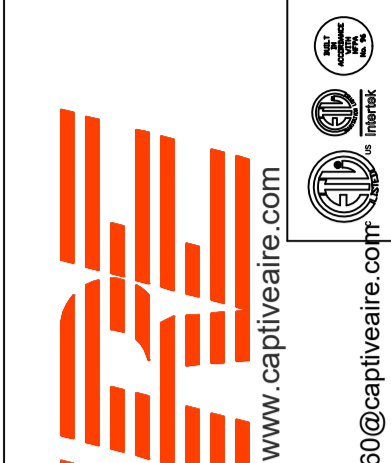
SHEET NO.

10



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DATE: 10/26/2023

DWG.#:
6301204

DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO.
11

DUCTWORK #1 PARTS - JOB#6301204 DOUBLE WALL GREASE DUCT

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P5	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5 ASSEMBLED W/P4 D=B	DW2312TP						8.02		1	DUCT TO CURB TRANSITION, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. MISC. NON-STANDARD TRANSITION PLATE.
P6	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P7	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P8	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P10	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P10 ASSEMBLED W/P9 D=B	DW2312TP						8.02		1	DUCT TO CURB TRANSITION, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. MISC. NON-STANDARD TRANSITION PLATE.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		6	DUCT - 12" DUCT - 16" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							522.32			

DOUBLE WALL FACTORY BUILT DUCTWORK

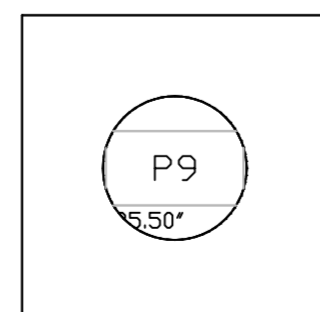
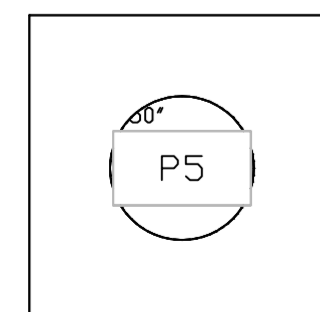
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

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

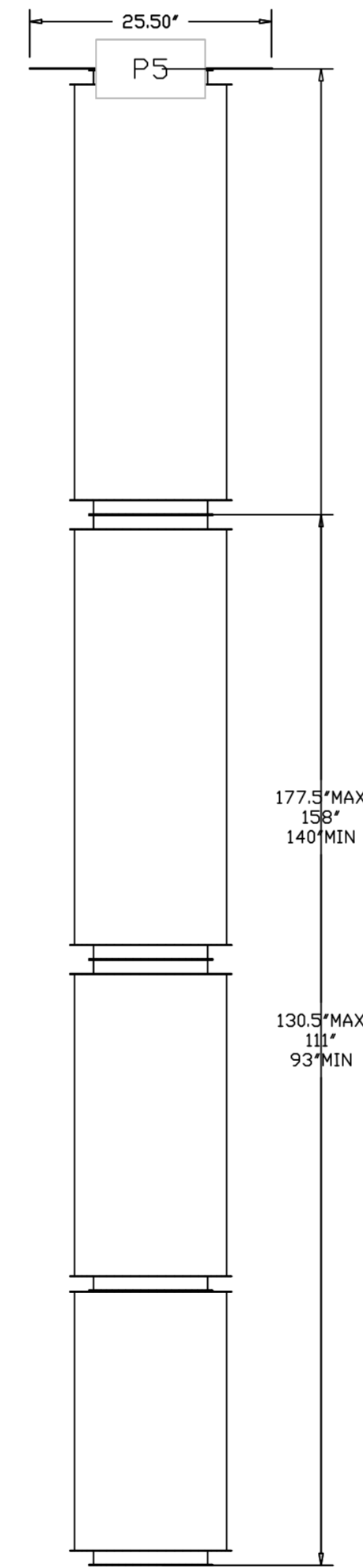
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5'-24")	10'	24'	24'
3Z (26'-36")	10'	20'	20'

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

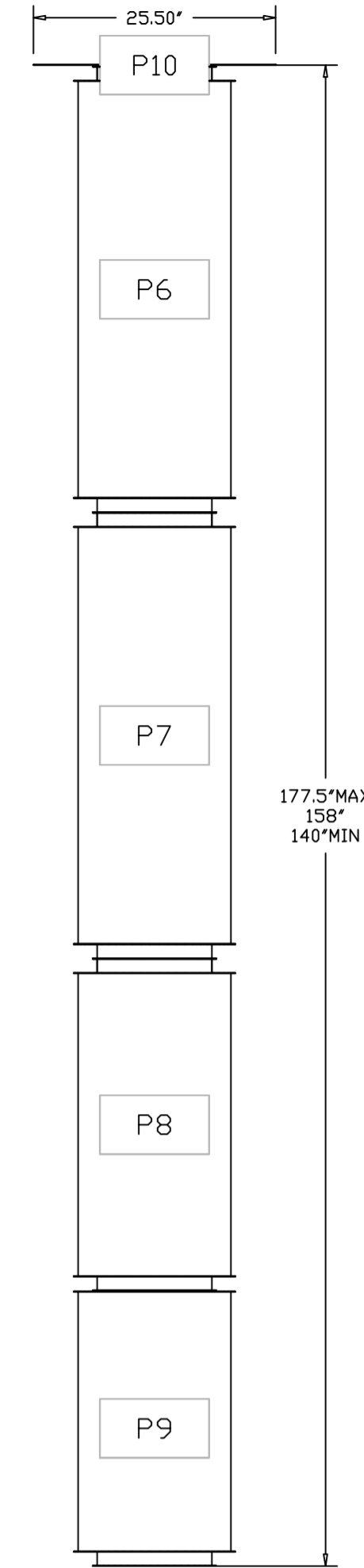
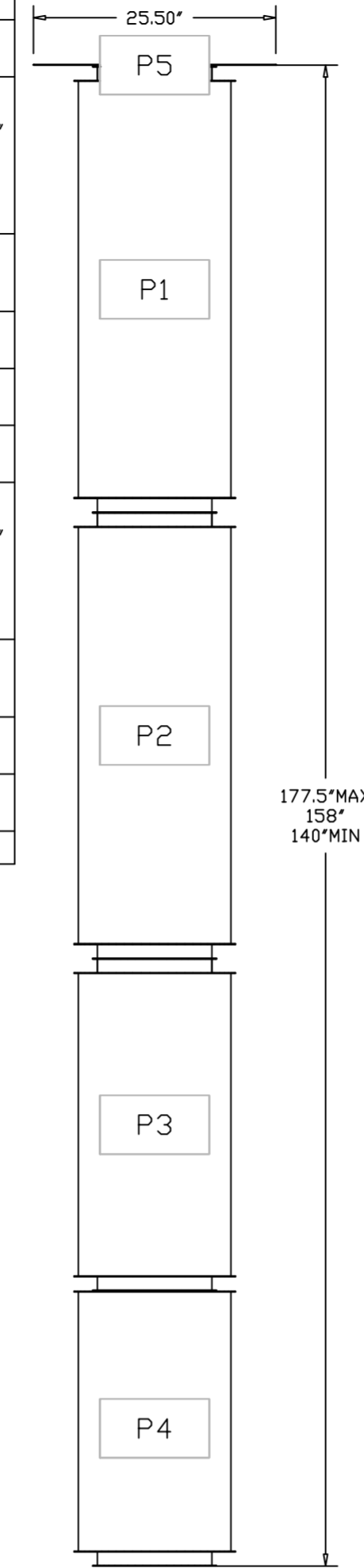
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



REVISIONS

DESCRIPTION	DATE



CAPTIVE AIR
 Florida National Accounts
 238 N Hunt Club Blvd., STE 201, Longwood, FL 32779 PHONE: (407) 682-3100 FAX: 9182275913 EMAIL: reg60@captiveaire.com

Culvers Labelle FL
 Labelle, FL, 33935

DATE: 10/26/2023

DWG.#
6301204

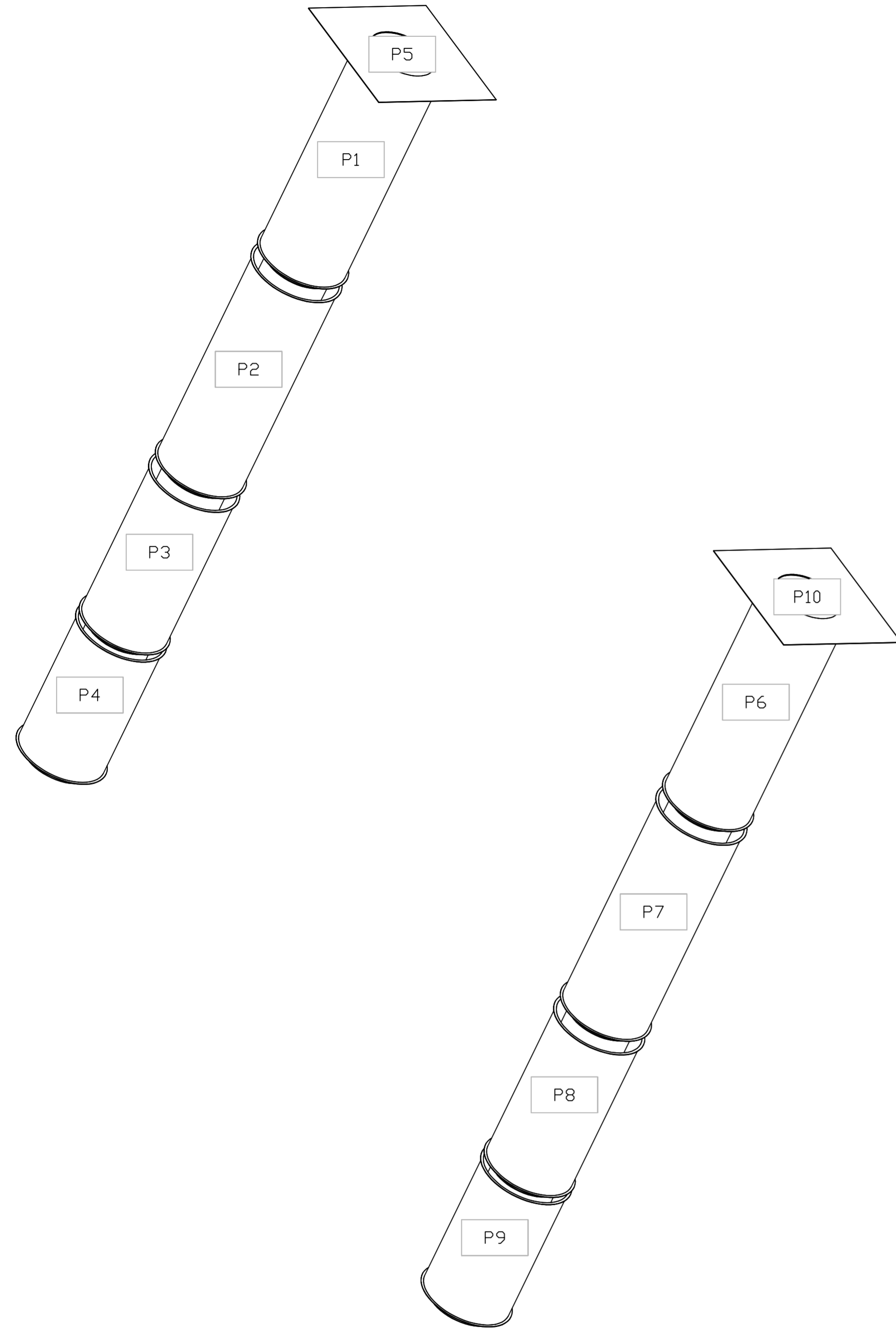
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SCALE:
3/4" = 1'-0"

MASTER DRAWING

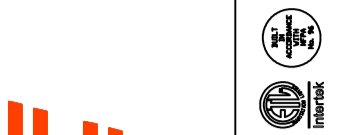
SHEET NO.
13

DUCTWORK #1 SE VIEW
GREASE DUCT



REVISIONS

DESCRIPTION	DATE



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CAPTIVE AIR

Culvers Labelle FL
Labelle, FL, 33935

DATE: 10/26/2023

DWG.#
6301204

DRAWN BY: sluddy jr

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

MASTER DRAWING

SHEET NO.
14