

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

**HOOD INFORMATION - JOB#5784764**

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		
1	GRIDDLE HOOD	CAPTRATE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO					YES	232 LBS
2	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO					YES	284 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.

**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.

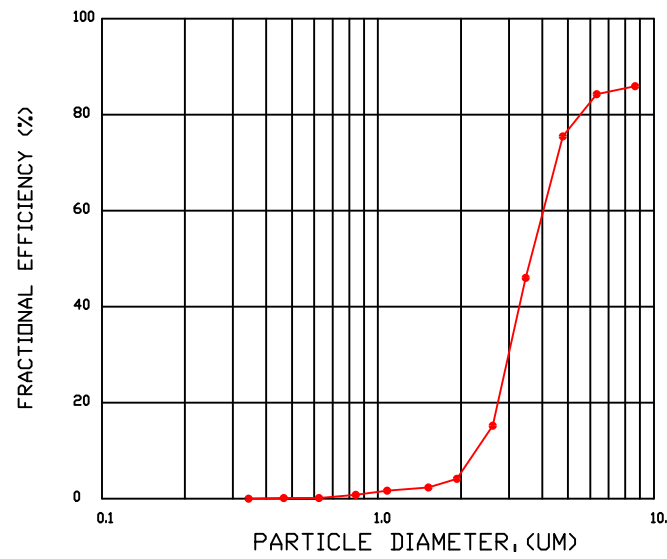
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

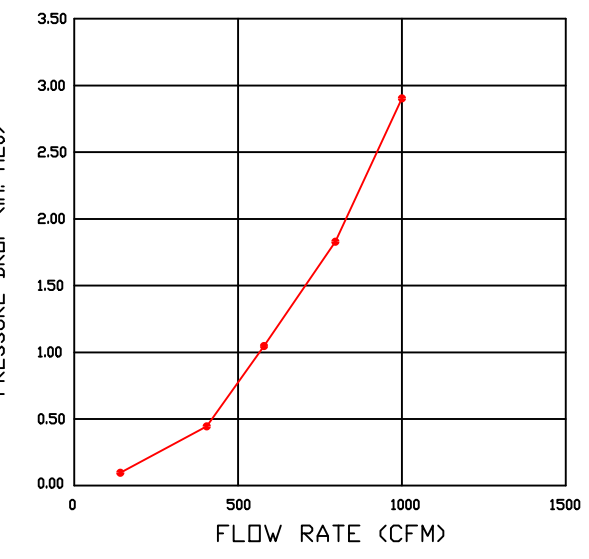
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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.

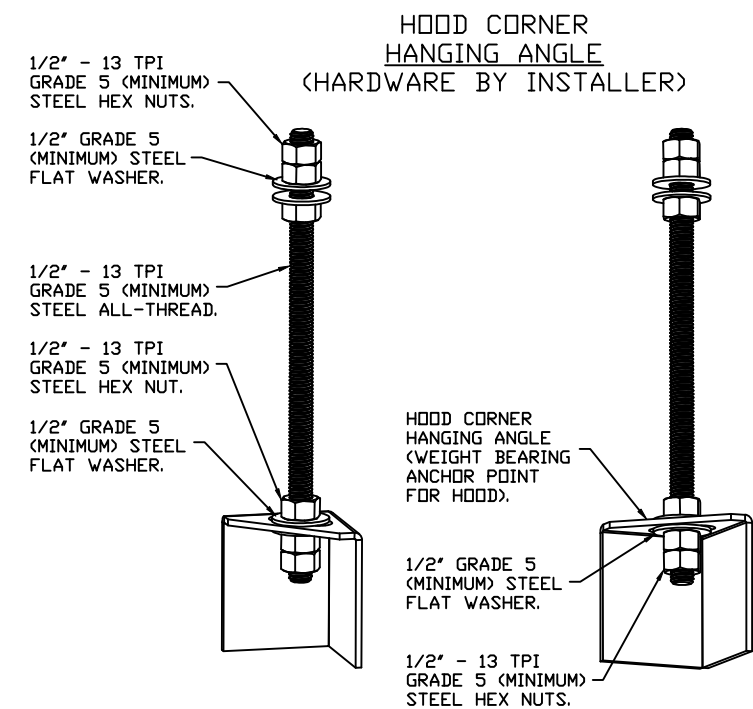
EFFICIENCY VS. PARTICLE DIAMETER



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.

**REVISIONS**

DESCRIPTION	DATE

**CAPTIVEAIRE**

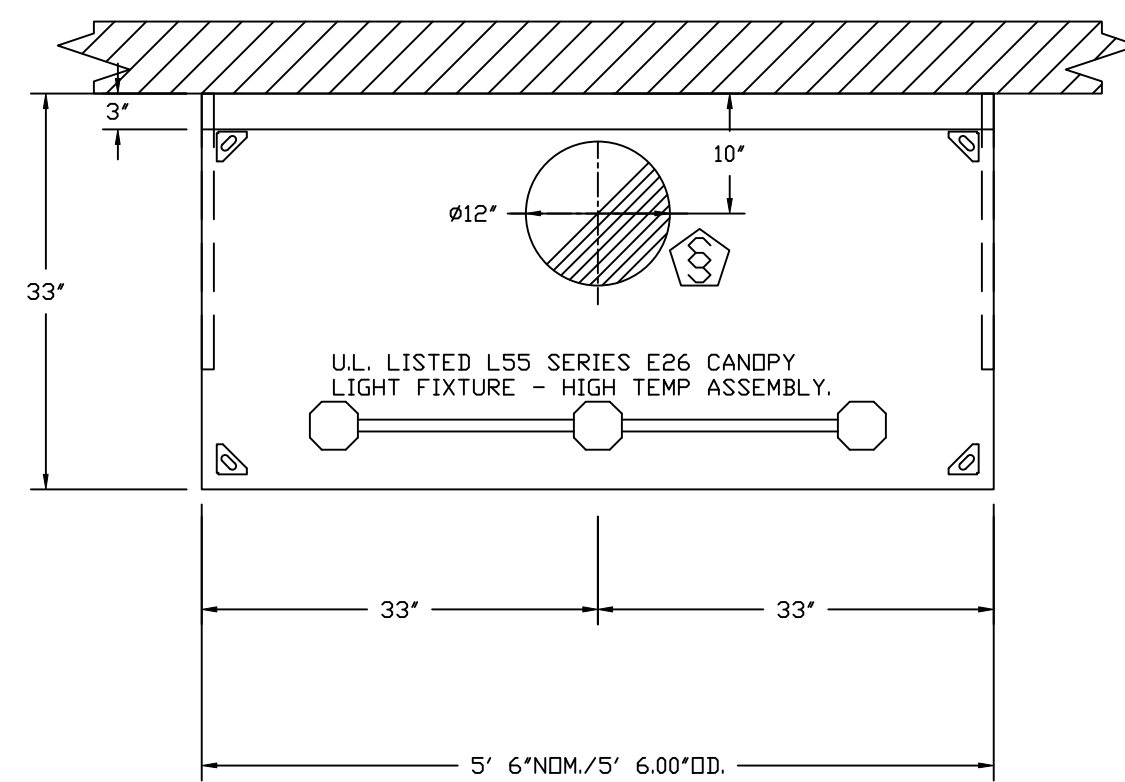
Florida National Accounts  
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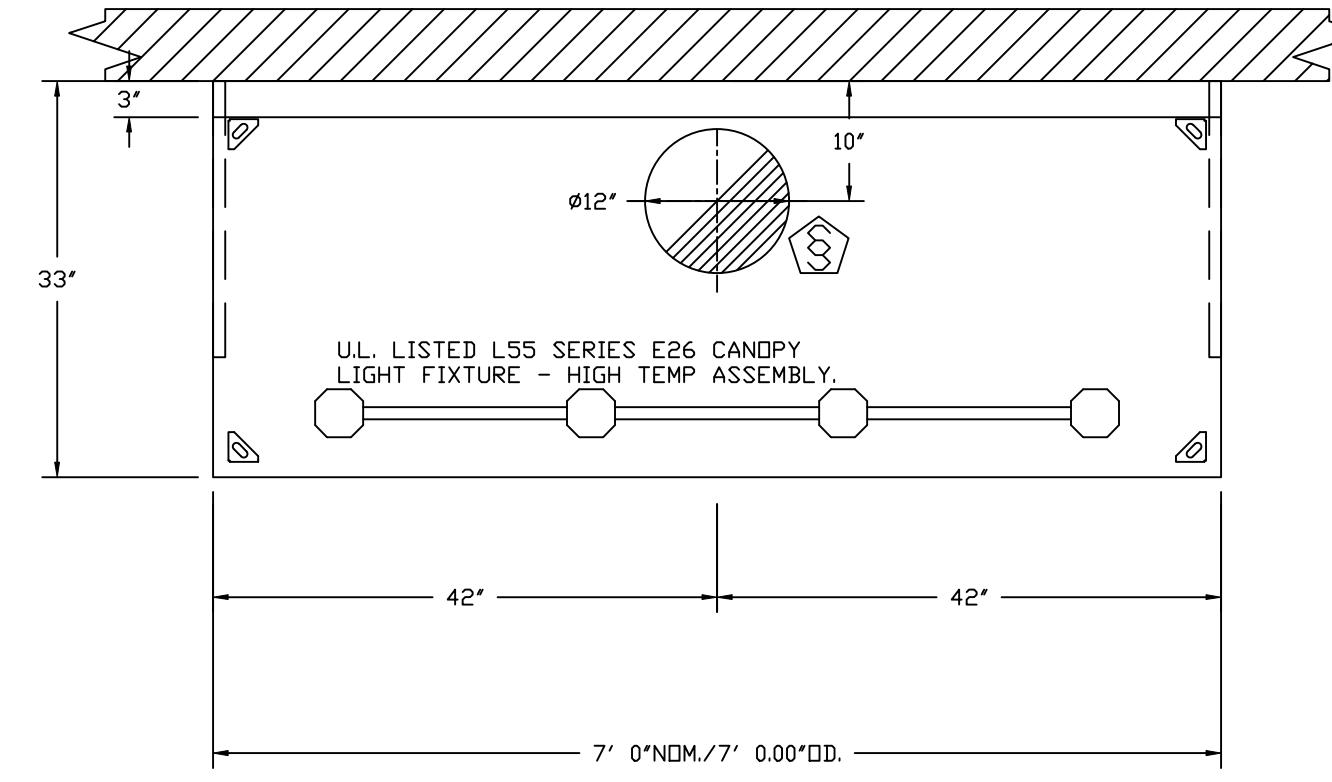
Culvers Sebring FL  
 2651 US HIGHWAY SOUTH,  
 Sebring, FL, 33870

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 DRAWN BY: studdy jr  
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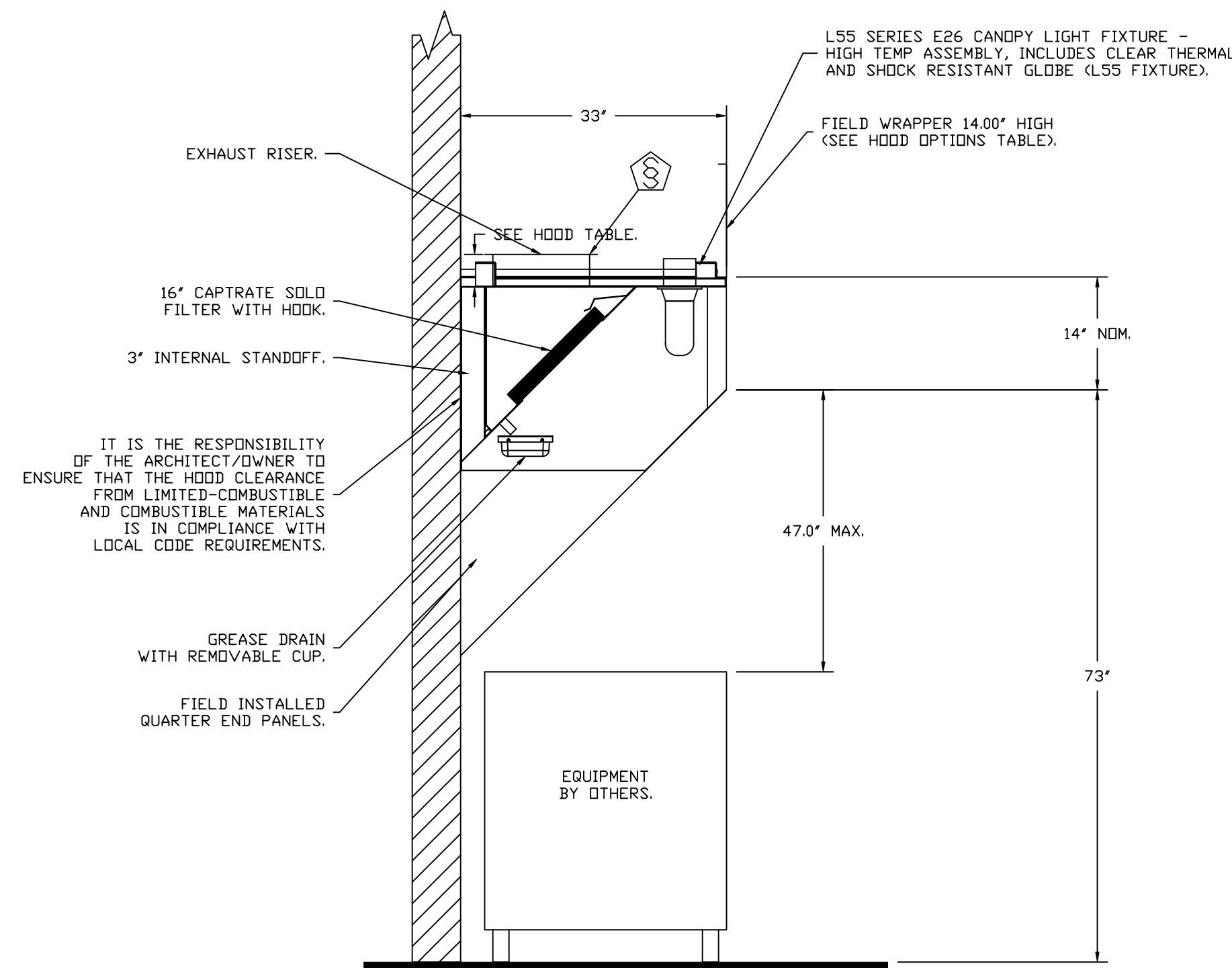
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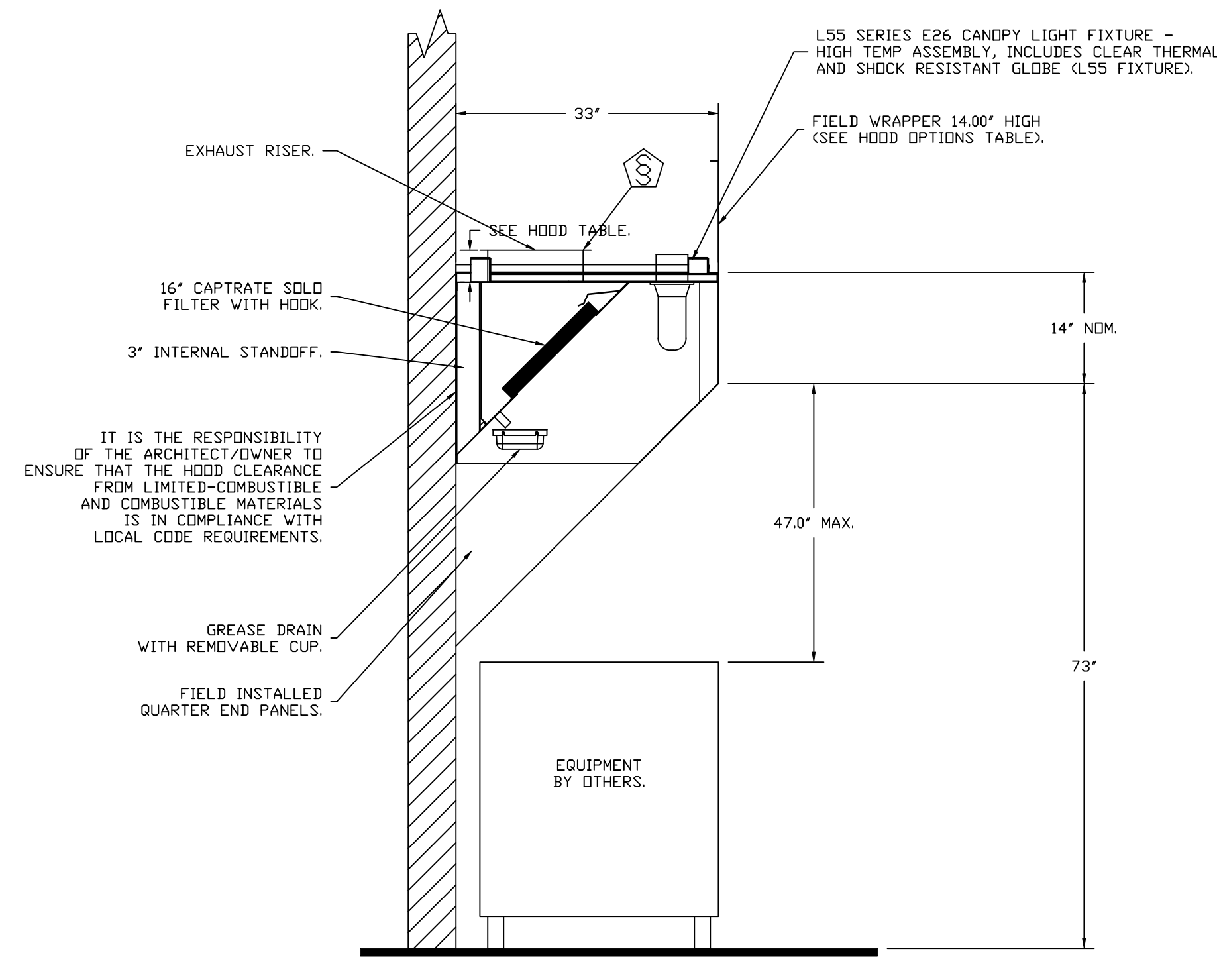
PLAN VIEW - HOOD #1 (GRIDDLE HOOD)  
5' 6.00" LONG 3347BD-2



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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**FIRE SYSTEM INFORMATION - JOB#5784764**

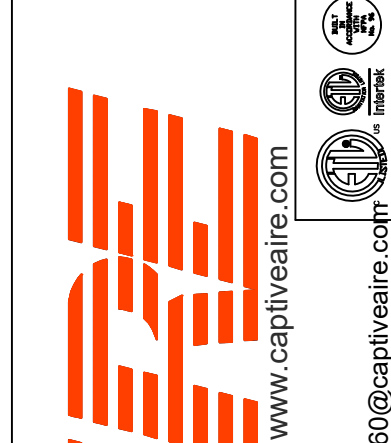
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	GRIDDLE HOOD	ANSUL R102	3.0	11	6	WALL MOUNT LEFT	N/A
2	FRYER HOOD	ANSUL R102	3.0/3.0	22	14	WALL MOUNT LEFT	N/A

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	Griddle Hood	0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	4	0
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR 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 - LT-30-R CARTRIDGE - NITROGEN, LT-30-R (RHT) (R-102, PIRANHA).	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
		14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	1	0
		16 - 16 - 419335 NOZZLE - 1N NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	1	0
		23 - 23 - 419342 NOZZLE - 290 NOZZLE, APPLIANCE (REPLACES ANSUL PART# 419353, CAS PART# 419342) A0001272.	2	0
		25 - 25 - 418569 NOZZLE ADAPTDR - SWIVEL NOZZLE ADAPTDR (REPLACES CAS PART # 418569) A0001274.	2	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	4	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACDLA # 05-417369.	3	0
		29 - 29 - ANS-360FL FUSIBLE LINK - 360DEG F, R-102 AND PIRANHA, ANSUL PART # 439088.	3	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 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	Fryer Hood	0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	6	0
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR 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 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.	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 - HOSEGRDMET HOSE - HOSE/GROMMET PACKAGE.	0	1
		14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	1	0
		16 - 16 - 419335 NOZZLE - 1N NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	1	0
		19 - 19 - 419338 NOZZLE - 3N NOZZLE, APPLIANCE (REPLACES ANSUL PART# 419349, CAS PART# 419338) A0001268.	4	0
		25 - 25 - 418569 NOZZLE ADAPTDR - SWIVEL NOZZLE ADAPTDR (REPLACES CAS PART # 418569) A0001274.	4	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACDLA # 32-79768.	1	0
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACDLA # 05-417369.	3	0
		30 - 30 - ANS-500FL FUSIBLE LINK - 500DEG F, R-102 AND PIRANHA, ANSUL PART # 439232.	3	0
34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 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		

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3/4" = 1'-0"

**MASTER DRAWING**

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3



**EXHAUST FAN INFORMATION – JOB#5784764**

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	DR12HFA	CAPTIVEAIRE	375	0.250	1116	TEAO-ECM	0.250	0.0600	1	115	2.9		53	4.5
2	PRV-2 GRIDDLE	1	DU85HFA	CAPTIVEAIRE	1500	1.412	1406	TEAO-ECM	1.000	0.5330	1	115	11.6	475 FPM	99	12.3
3	PRV-3 FRYER	1	DU85HFA	CAPTIVEAIRE	1500	1.250	1348	TEAO-ECM	1.000	0.4700	1	115	11.6	475 FPM	99	11.3
4	EF-1	2	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPOSE	0.116	0.0510	1	115	1.1		27	N/A

**DOAS/RTU FAN SCHEDULE – JOB#5784764**

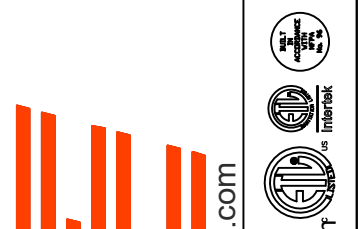
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION										ELECTRICAL INFORMATION								COOLING INFORMATION								REHEAT INFORMATION				ELECTRIC HEAT INFORMATION					NOTES
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOC	OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	LEAVING AIR DP	CAPACITY 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	CAS-HVAC3-E.452-24-20T	CAPTIVEAIRE	24MF-3-RTU	4795	1955	6750	2667	0.750	10.00	3	208	143.4A	150A	92.0°F	76.0°F	79.9°F	66.5°F	53.7°F	53.7°F	53.8°F	253.2 MBH	189.0 MBH	18.2	6.0	70.0°F	60.4°F	123.2 MBH	129.6 MBH	61.1 LBS/HR	40	45	240	108.3	19 °F	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18			
6	RTU-2- KITCHEN	1	CAS-HVAC3-E.302-24-20T	CAPTIVEAIRE	24MF-3-RTU	4655	1495	6150	2661	0.750	10.00	3	208	107.3A	125A	81.9°F	78.7°F	76.7°F	66.6°F	53.3°F	53.3°F	53.4°F	243.3 MBH	155.0 MBH	18.2	6.0	70.0°F	60.6°F	115.5 MBH	129.6 MBH	81.1 LBS/HR	28	30	240	72.2	15 °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
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
18. SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER

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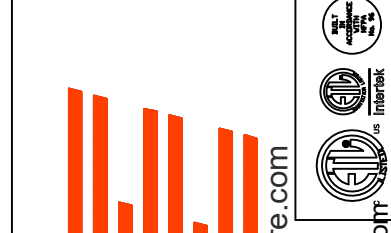
**SHEET NO.**  
5

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PRV-1 RESTROOM	1	1 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 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 - FOR GREASE DUCTS
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
		1	ECM WIRING PACKAGE - MANUAL OR 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 - FOR GREASE DUCTS
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST
4	EF-1	2	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		2	2 YEAR PARTS WARRANTY
5	RTU-1 DINING	2	MGI - METAL GRILLE KIT
		2	WALL CAP - ACCEPTS 8" ROUND DUCT
		2	2 YEAR PARTS WARRANTY
		1	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	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	RTU3 MIAMI DADE CERTIFICATION
		1	OCCUPIED SCHEDULING
		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 - R410A
		1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONOMIZER BAROMETRIC RELIEF
		1	RTU3 HAIL GUARD
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 DOWN RETURN
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)
		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	INTAKE FIRESTAT SET TO 135°F		
1	FREEZESTAT		
1	DISCHARGE FIRESTAT SET TO 240°F		
1	120V FIRE INPUT		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		
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	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED
		1	OCCUPIED SCHEDULING
		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 - R410A
		1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
		1	RTU3 ECONOMIZER BAROMETRIC RELIEF
		1	RTU3 HAIL GUARD
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	RTU3 DOWN RETURN
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)
		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	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	120V FIRE INPUT
		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		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

REVISIONS

DESCRIPTION	DATE:



**CAPTIVE AIR**

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**Florida National Accounts**

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

Culvers Sebring FL  
2651 US HIGHWAY SOUTH,  
Sebring, FL, 33870

**DATE:** 7/29/2024

**DWG.#:**  
5784764

**DRAWN BY:** studdy jr

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

**MASTER DRAWING**

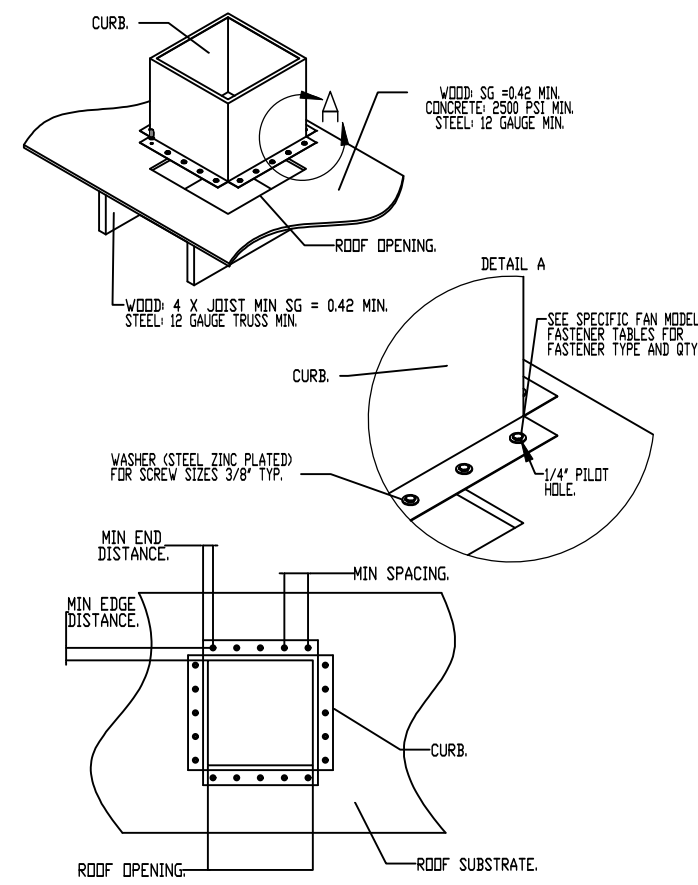
**SHEET NO.**  
6

**FAN ACCESSORIES**

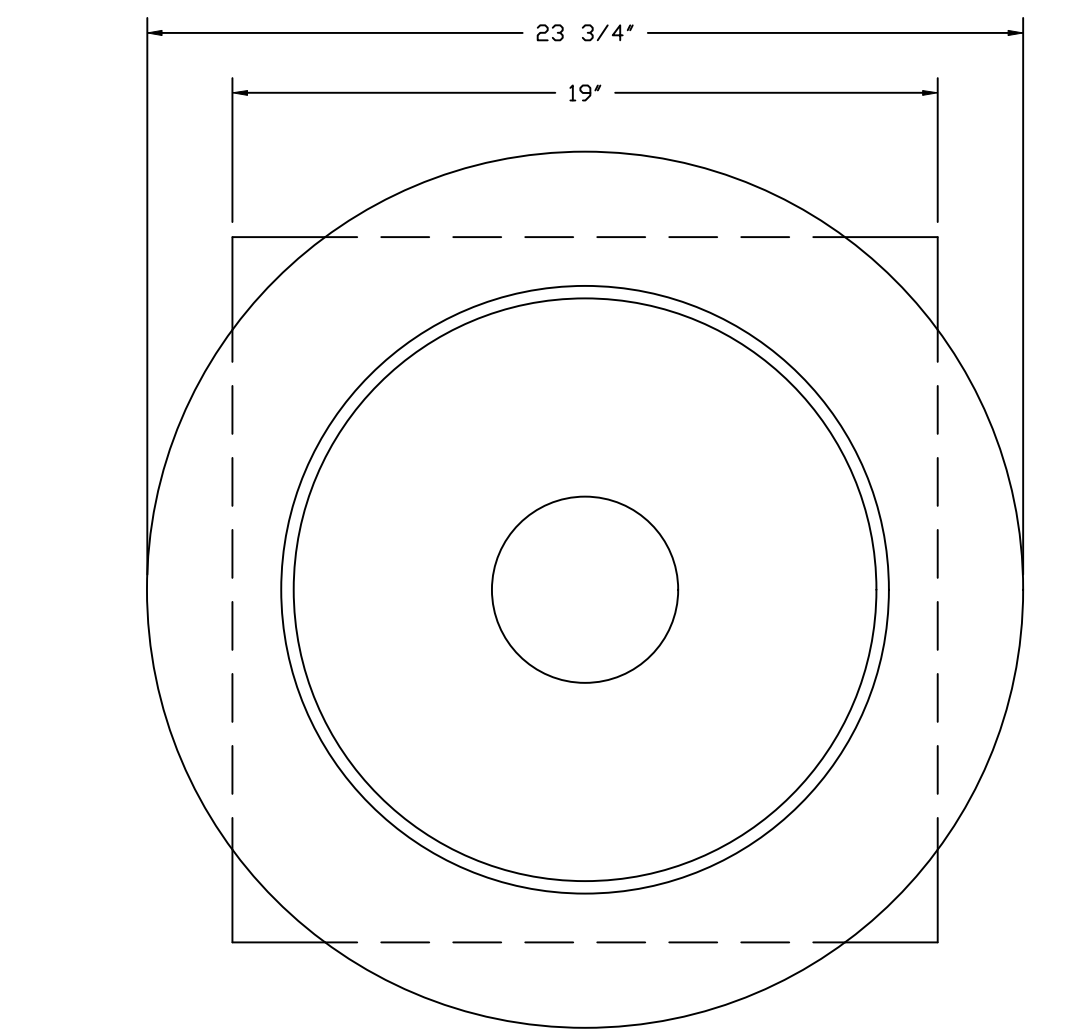
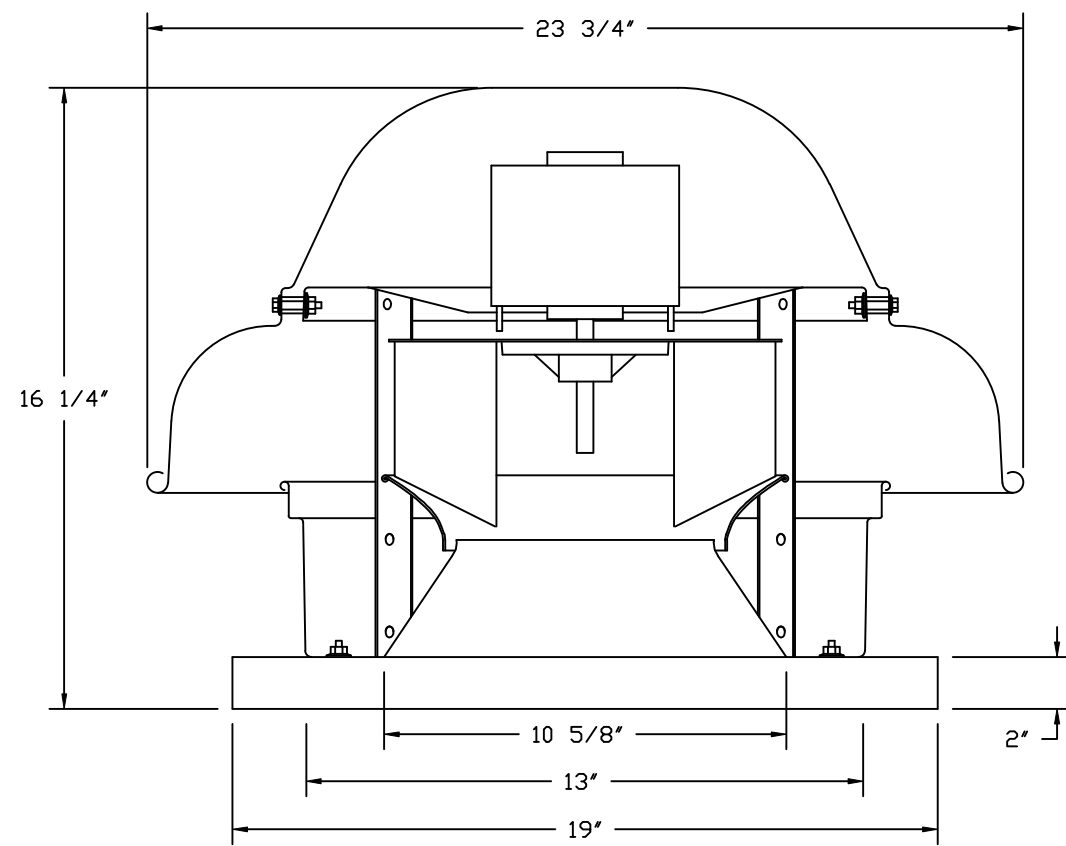
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	PRV-1 RESTROOM		YES					
2	PRV-2 GRIDDLE	YES						
3	PRV-3 FRYER	YES						
4	EF-1							

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

**MIAMI-DADE COUNTY - CURB ROOF INSTALLATION GUIDE**

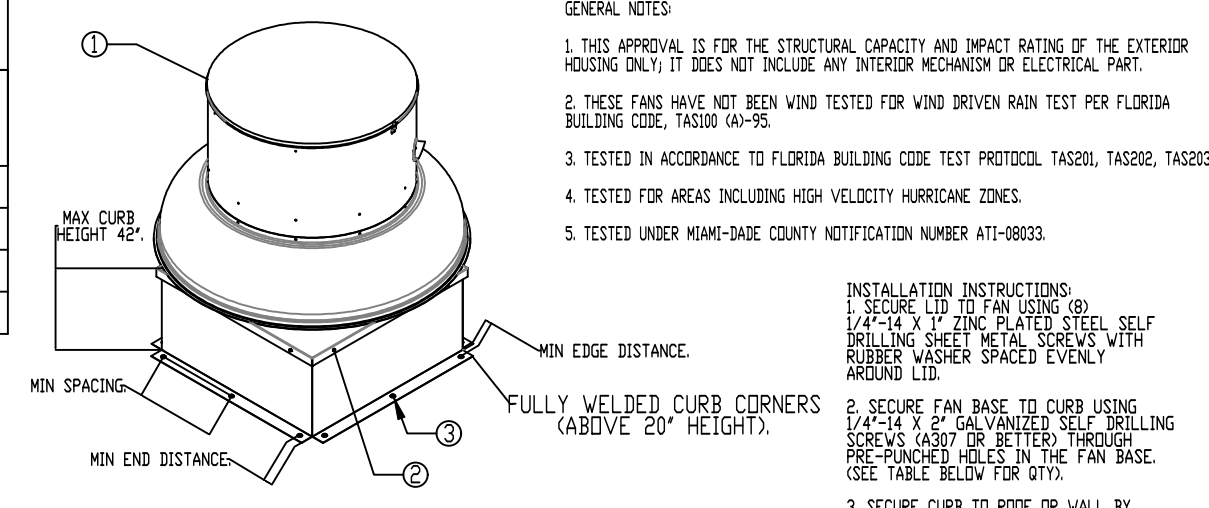


FAN #1 DR12HFA - EXHAUST FAN (PRV-1 RESTROOM)



TOP VIEW

**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, TAS201, TAS202, TAS203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-0803.

**INSTALLATION INSTRUCTIONS**

- SECURE LID TO FAN USING (8) 1/4"-14 X 1/2" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.
- SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (ASST. OR BETTER) THROUGH PRE-DRILLED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
- SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE. AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

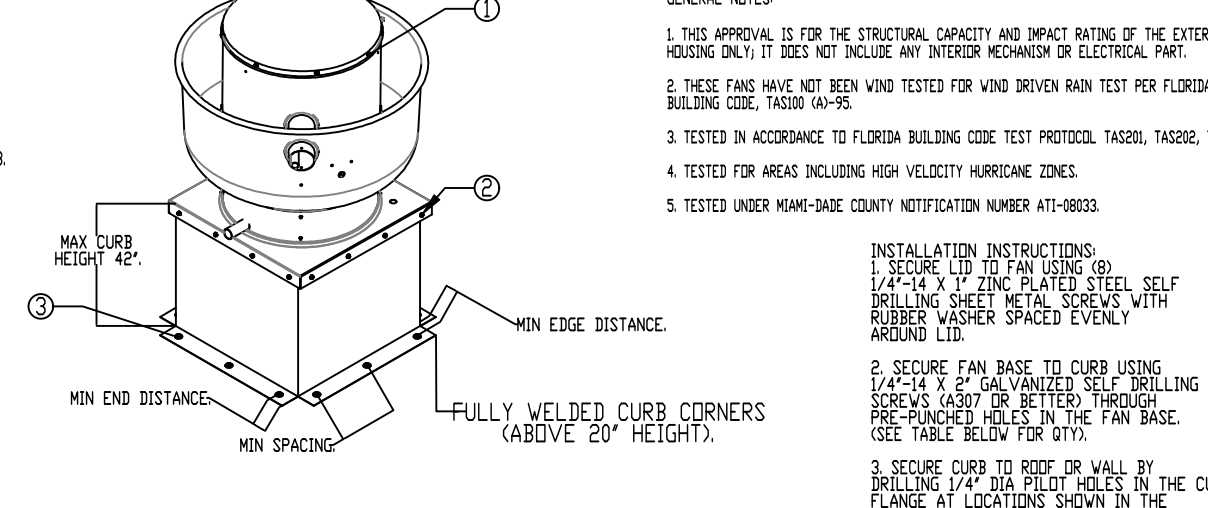
**CURB MATERIAL:**  
20" HIGH & LESS = 24 GA. STEEL  
ABOVE 20" THRU 42" = 18 GA. STEEL

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

FASTENER	WOOD (SG = 0.42 MIN.)			STEEL (12 GAUGE MIN.)			CONCRETE (2500 PSI MIN. CRACKED CONCRETE)		
	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	N/A	2-5/8"	3/8"	N/A	2-5/8"	3/8"
MINIMUM SPACING	N/A	1-1/2"	3/4"	N/A	1-1/2"	3/4"	N/A </tr		

FAN MODEL	CURB TO FAN (GROOF)			CURB TO FAN (WALL)			WOOD (GROOF)			STEEL (WALL)			CONCRETE (GROOF)			CONCRETE (WALL)		
	PER SIDE	TOTAL	PER SIDE	PER SIDE	TOTAL	PER SIDE	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
DUB5	3	12	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, TAS201, TAS202, TAS203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-0803.

**INSTALLATION INSTRUCTIONS**

- SECURE LID TO FAN USING (8) 1/4"-14 X 1/2" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.
- SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (ASST. OR BETTER) THROUGH PRE-DRILLED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
- SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

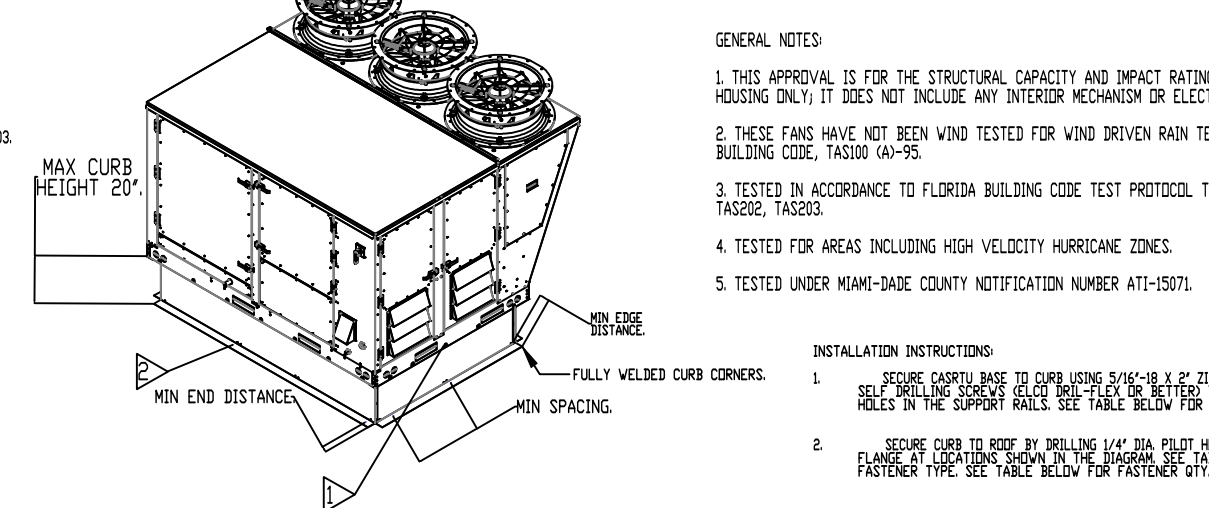
**CURB MATERIAL:**  
20" HIGH & LESS = 24 GA. STEEL  
ABOVE 20" THRU 42" = 18 GA. STEEL

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

FASTENER	WOOD (SG = 0.42 MIN.)			STEEL (12 GAUGE MIN.)			CONCRETE (2500 PSI MIN. CRACKED CONCRETE)		
	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	N/A	2-5/8"	3/8"	N/A	2-5/8"	3/8"
MINIMUM SPACING	N/A	1-1/2"	3/4"	N/A	1-1/2"	3/4"	N/A </tr		

FAN MODEL	CURB TO FAN (GROOF)			CURB TO FAN (WALL)			WOOD (GROOF)			STEEL (WALL)			CONCRETE (GROOF)			CONCRETE (WALL)		
	PER SIDE	TOTAL	PER SIDE	PER SIDE	TOTAL	PER SIDE	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
DUB5	3	12	3	12	4	16	4	16	5	20	5	20	4	16	4	16		

**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, TAS201, TAS202, TAS203.
- TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-15071.

**INSTALLATION INSTRUCTIONS**

- SECURE CAPSULE LID TO CURB USING 5/16"-18 X 2" ZINC PLATED STEEL SCREWS IN THE SUPPORT RAILS. SEE TABLE BELOW FOR FASTENER QTY.
- SECURE CURB TO ROOF BY DRILLING 1/4" DIA. PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

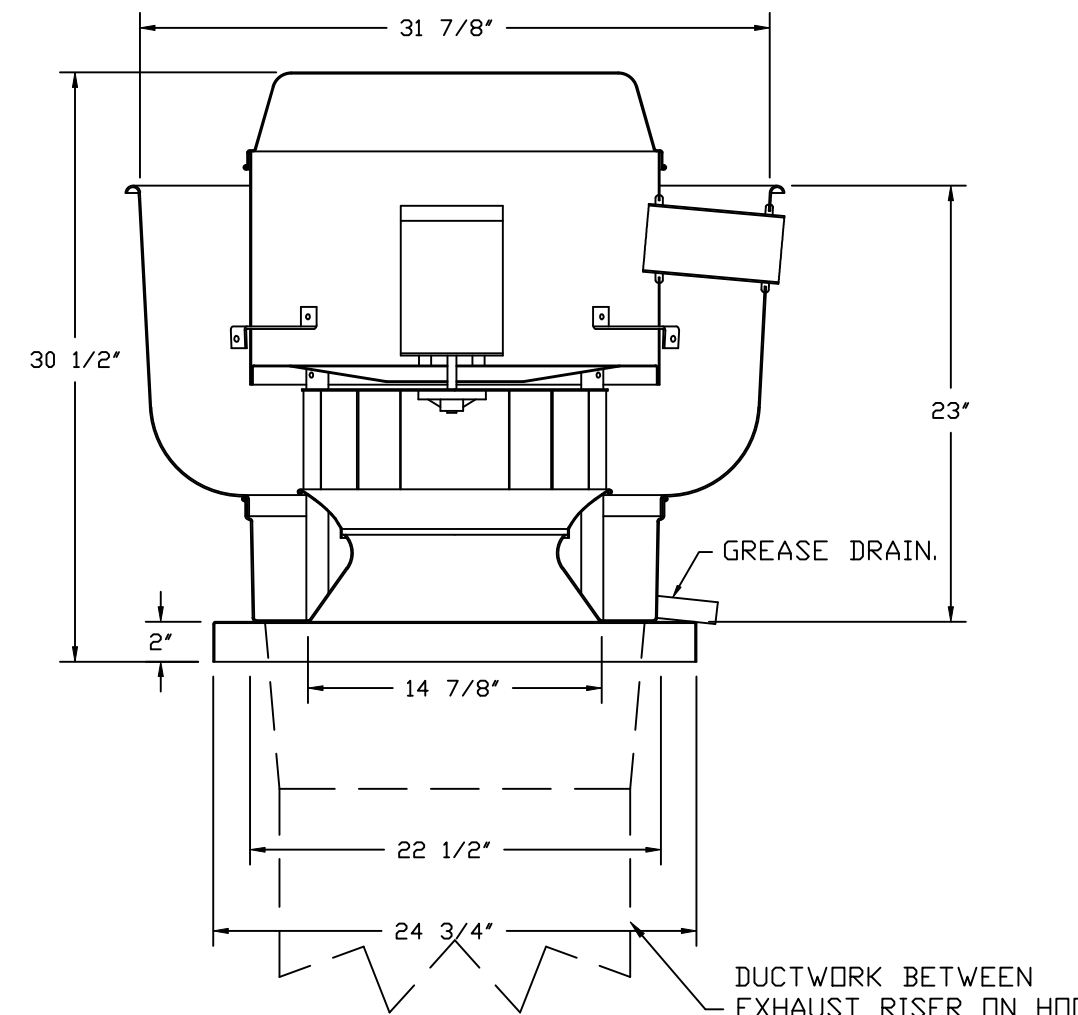
**CURB MATERIAL:**  
20" HIGH & LESS = 18 GA. STEEL

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

FASTENER	FAN TO CURB			WOOD (SG = 0.42 MIN.)			STEEL (12 GAUGE MIN.)			CONCRETE (2500 PSI MIN. CRACKED CONCRETE)		
	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE	N/A	2-1/2"	12 GAUGE
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"	N/A	1-1/2"	3/8"
MINIMUM END DISTANCE	N/A	4-1/2"	4-1/2"	N/A	4-1/2"	4-1/2"	N/A	4-1/2"	4-1/2"	N/A	4-1/2"	4-1/2"
MINIMUM SPACING	N/A	1-1/2"	6"	N/A	1-1/2"	6"	N/A	1-1/2"	6"	N/A	1-1/2"	6"

FAN MODEL	CURB TO FAN			WOOD			STEEL			CONCRETE		
	LONG SIDE	SHORT SIDE	TOTAL	LONG SIDE	SHORT SIDE	TOTAL	LONG SIDE	SHORT SIDE	TOTAL	LONG SIDE	SHORT SIDE	TOTAL
HVAC3	7	5	24	14	10	48	12	8	40	12	9	42

FANS #2 (PRV-2 GRIDDLE), #3 (PRV-3 FRYER) - DUB5HFA EXHAUST FAN



**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.

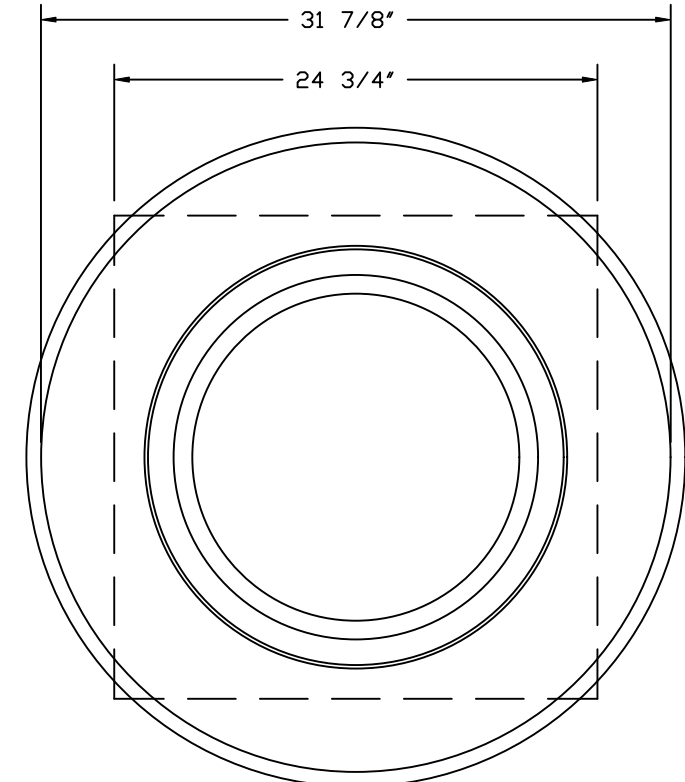
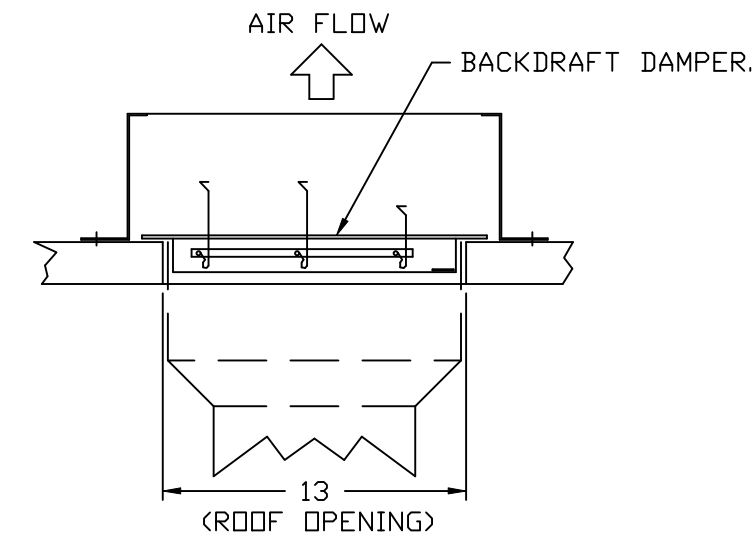
**NORMAL TEMPERATURE TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

**BACKDRAFT DAMPER INSTALLATION**



TOP VIEW

**REVISIONS**

DESCRIPTION	DATE:

**CAPTIVE**

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2651 US HIGHWAY SOUTH, Sebring, FL, 33870

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DATE: 7/29/2024

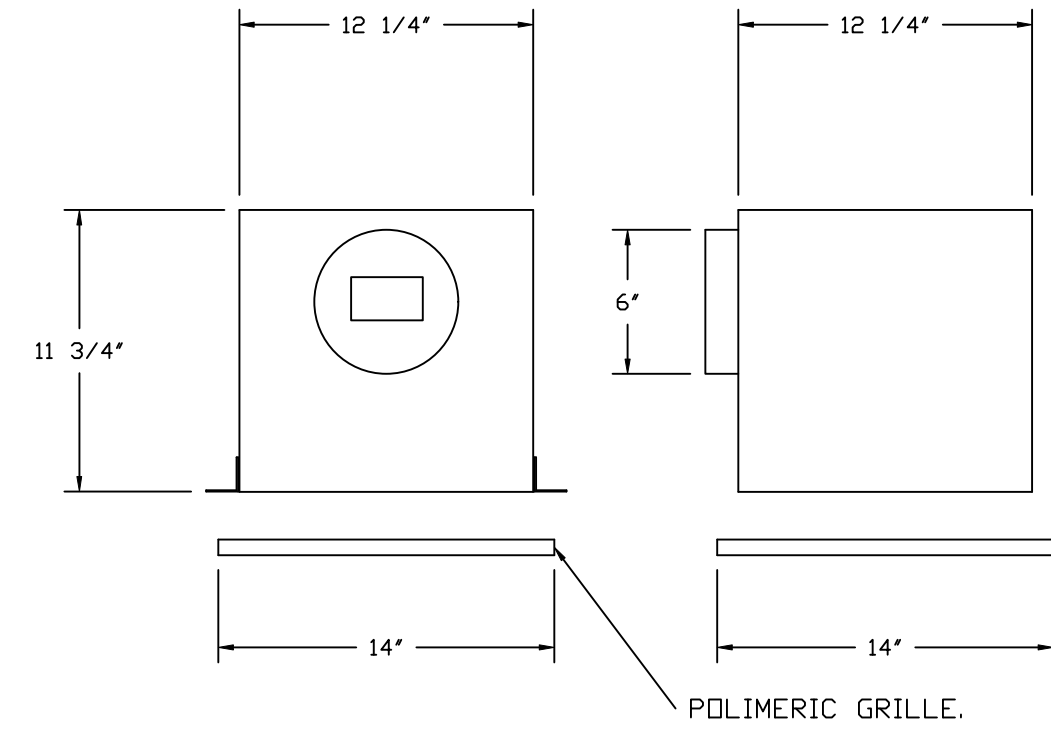
DWG.#: 5784764

DRAWN BY: studdy jr

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

MASTER DRAWING

SHEET NO. 7

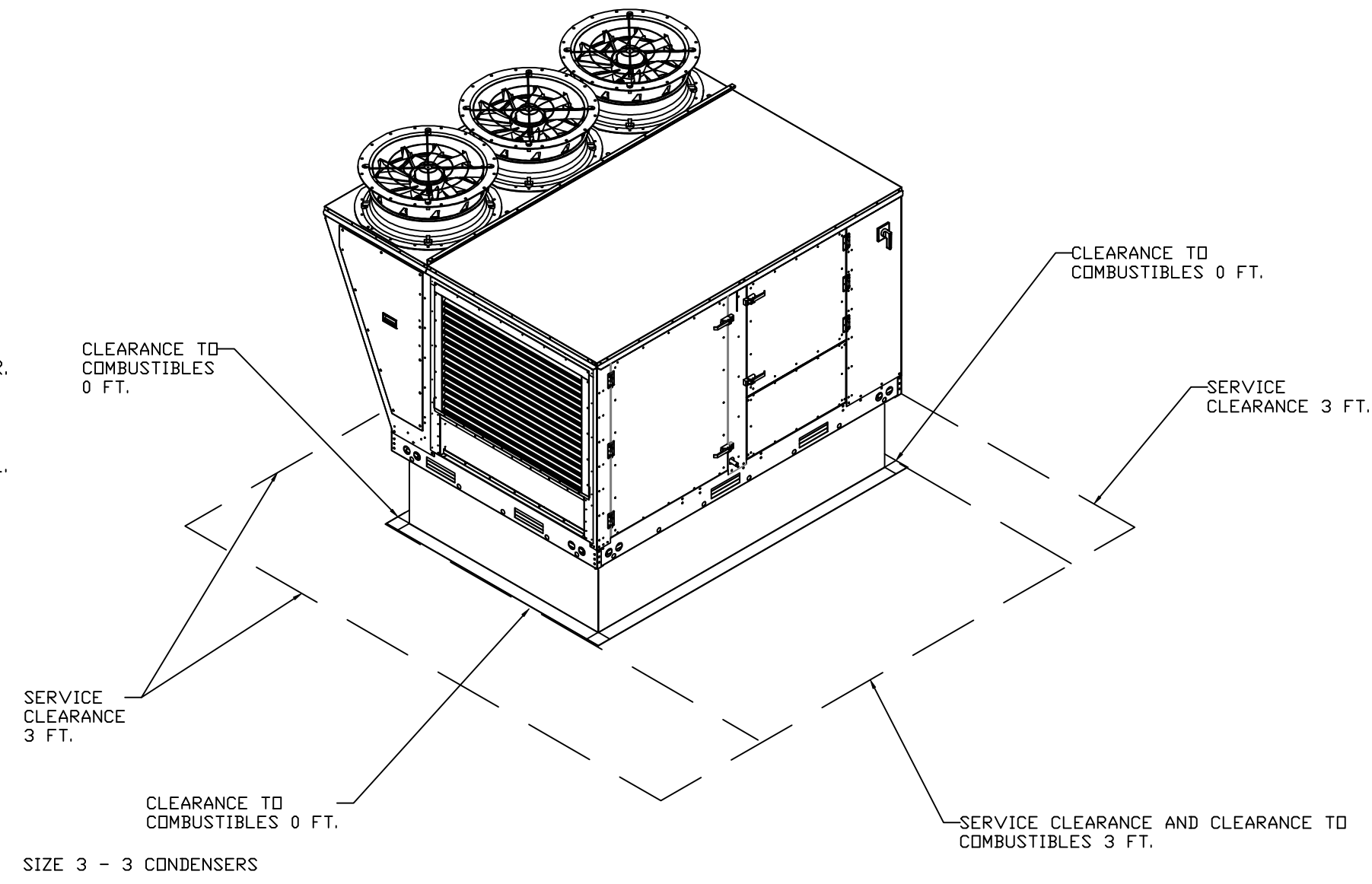


**FEATURES:**

- 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:**

- MG1 - METAL GRILLE KIT.
- WALL CAP - ACCEPTS 8" ROUND DUCT.
- 2 YEAR PARTS WARRANTY.



REVISIONS	
DESCRIPTION	DATE:

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Culvers Sebring FL

2651 US HIGHWAY SOUTH,  
Sebring, FL, 33870

**DATE:** 7/29/2024

**DWG.#:**  
5784764

**DRAWN BY:** studdy jr

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

**MASTER DRAWING**

**SHEET NO.**  
8

# GREASE BOX INSTALLATION

GREASEBOX  
REV.#2 08/19/02

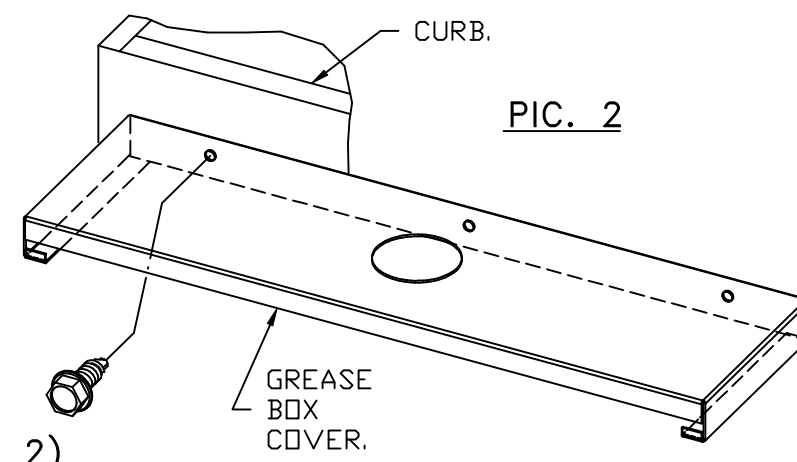
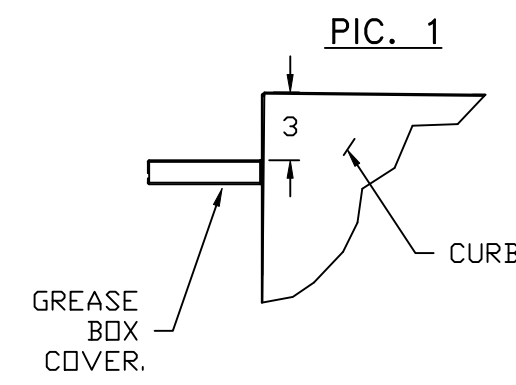
## PARTS INCLUDED

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

## GREASE BOX FIELD INSTALLATION

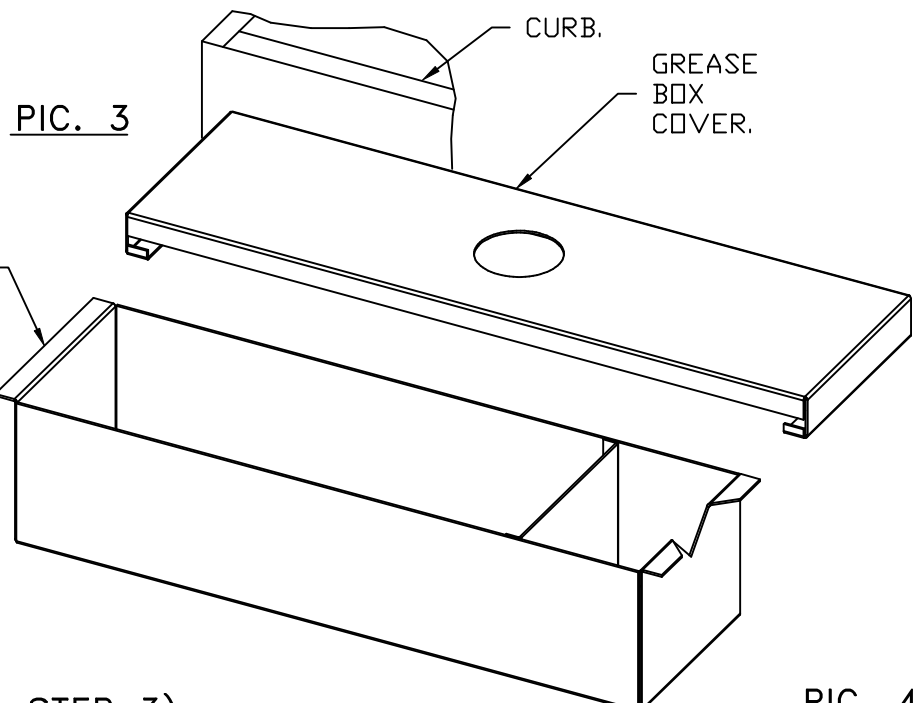
### STEP 1)

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.



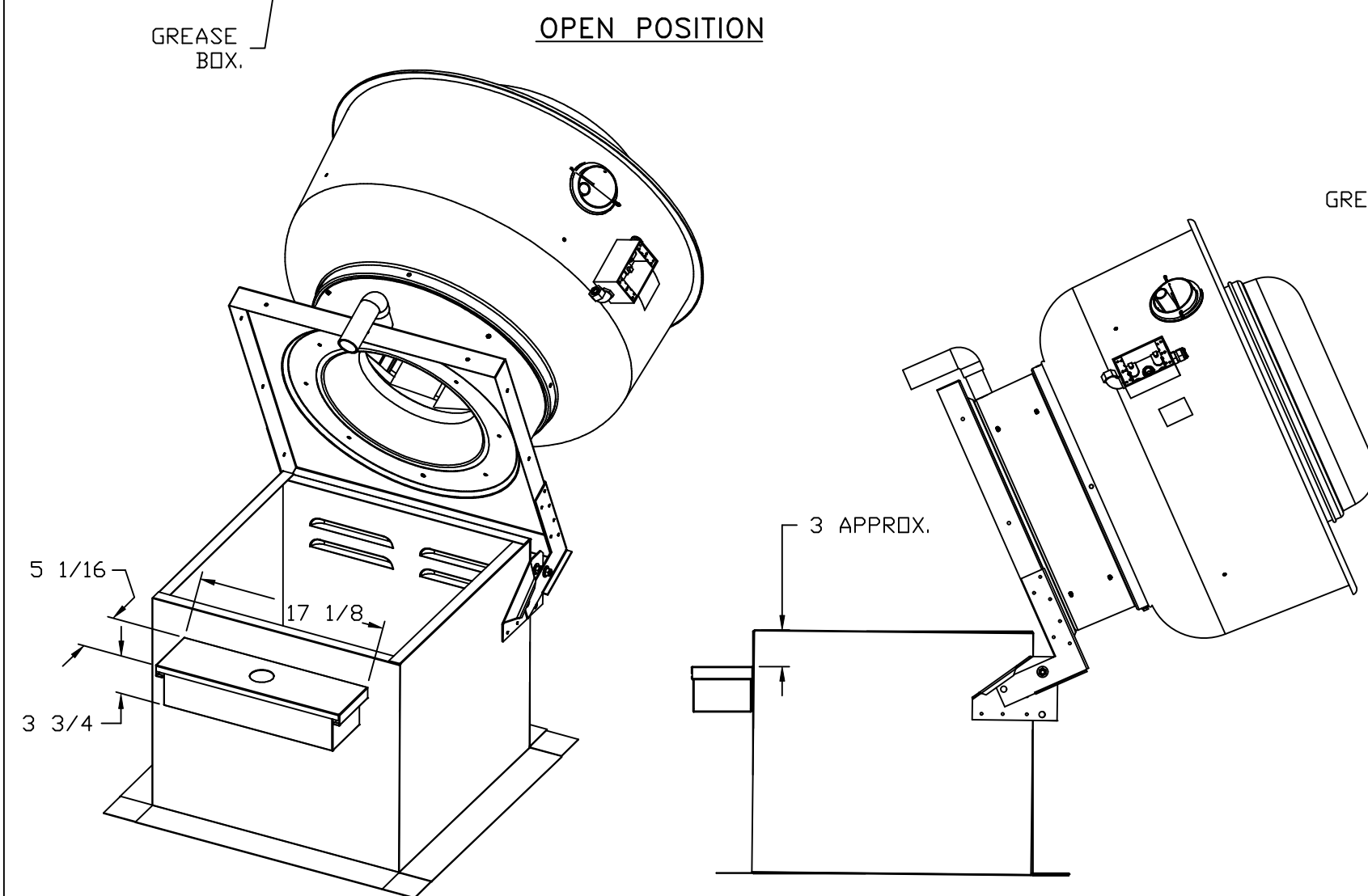
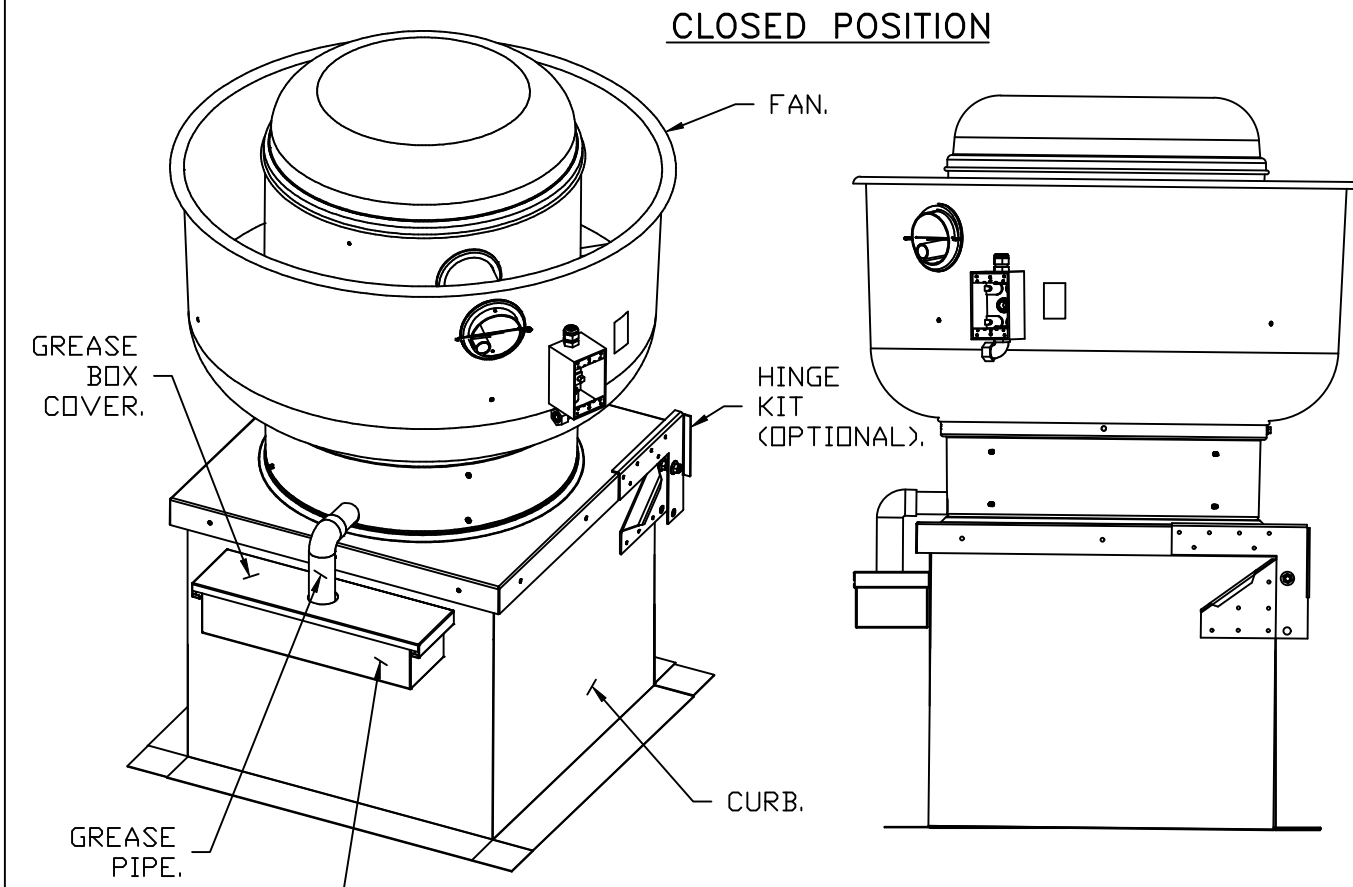
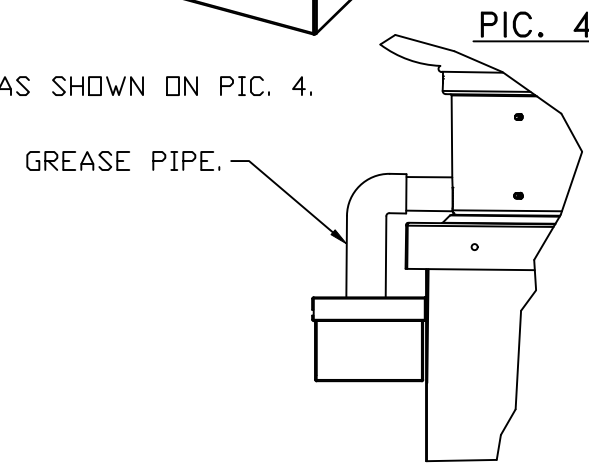
### STEP 2)

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	
DESCRIPTION	DATE:

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

# CAPTIVE AIR


Culvers Sebring FL  
2651 US HIGHWAY SOUTH,  
Sebring, FL, 33870

DATE: 7/29/2024  
DWG.#: 5784764  
DRAWN BY: sluddy jr  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

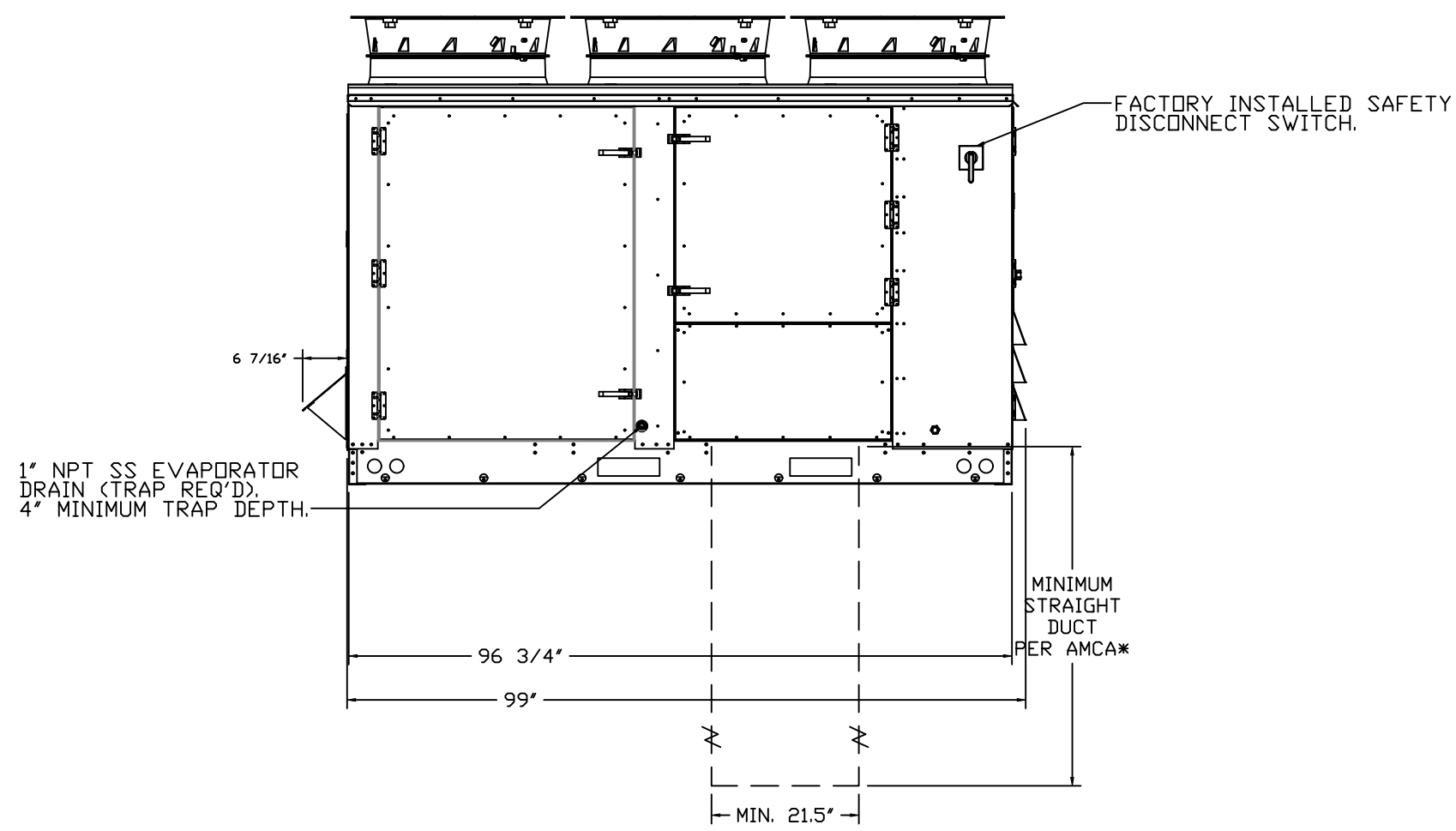
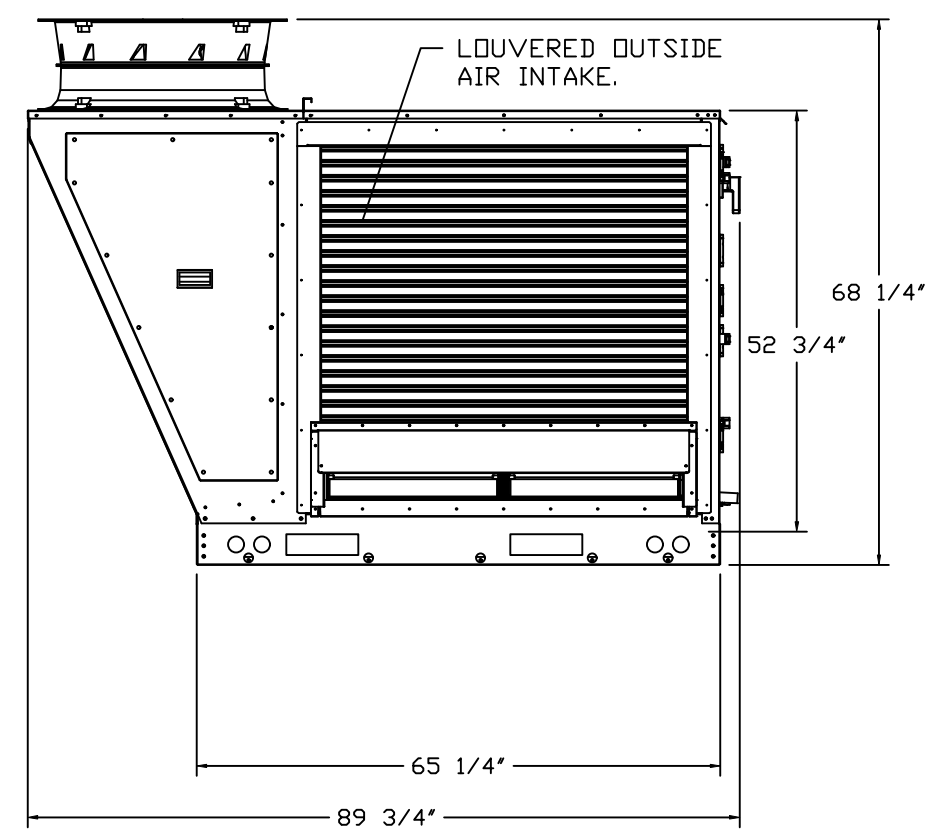
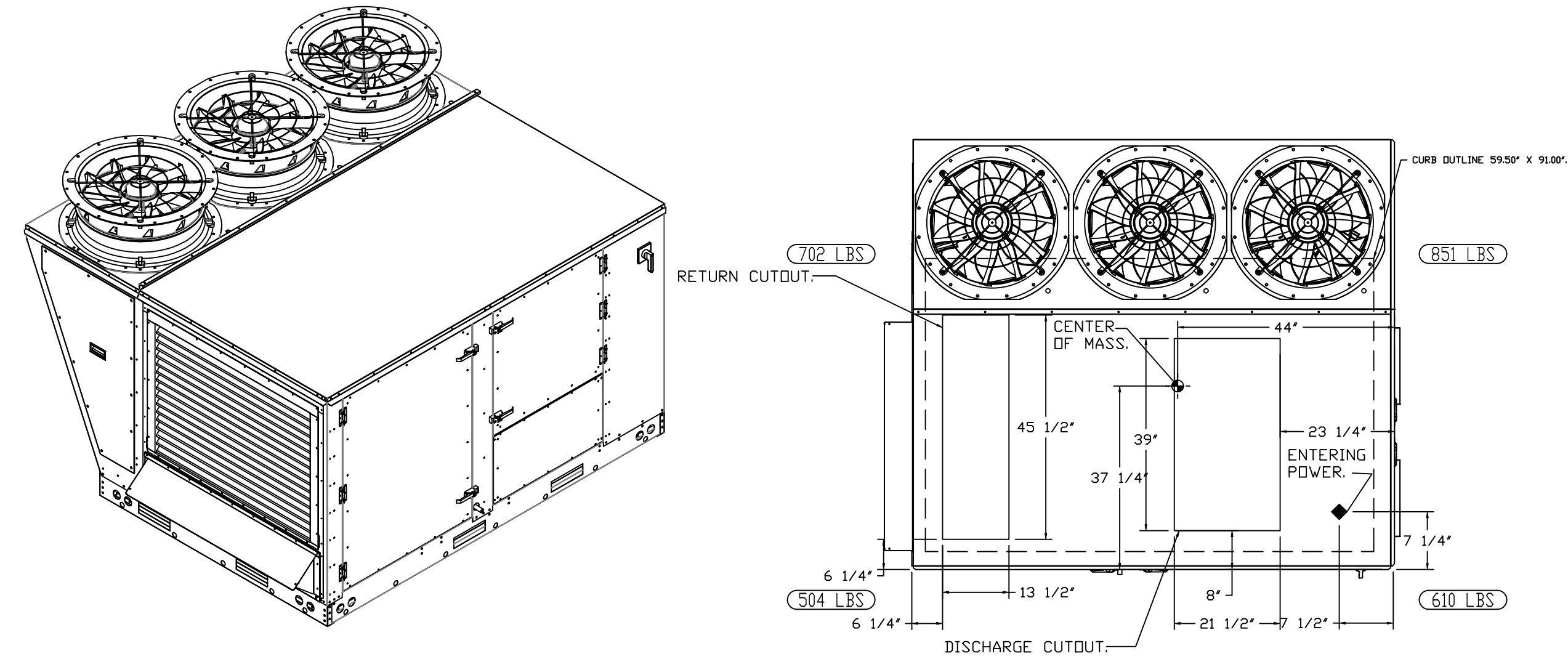
SHEET NO.  
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FAN #5 CAS-HVAC3-E.452-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

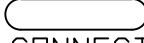
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

\*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".

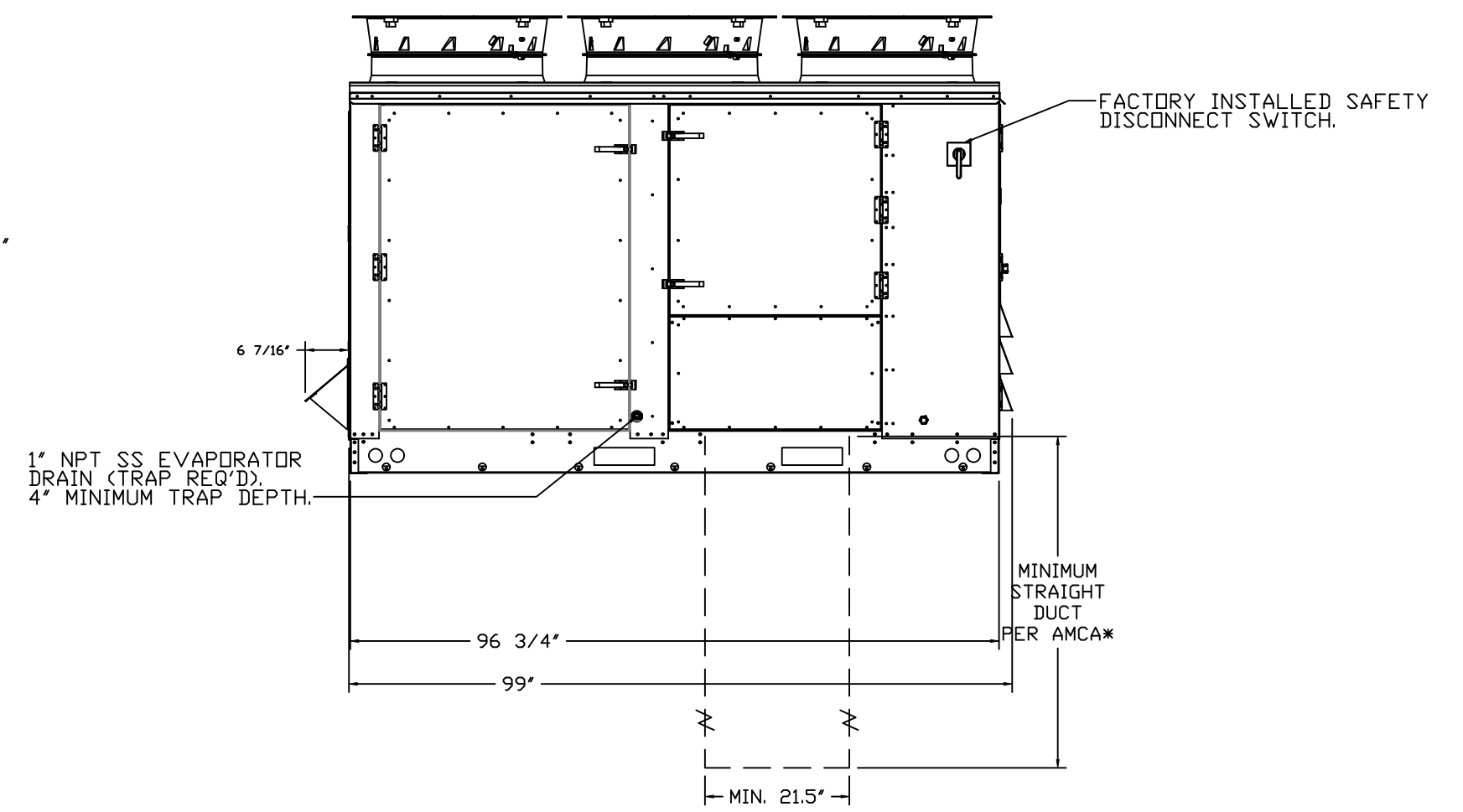
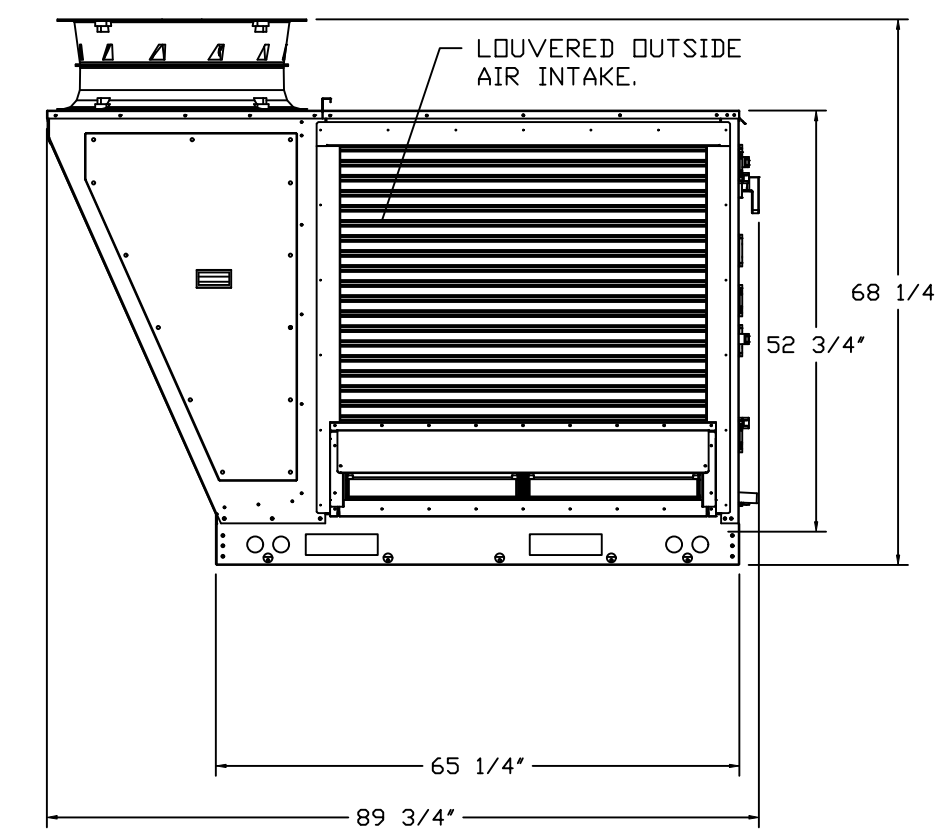
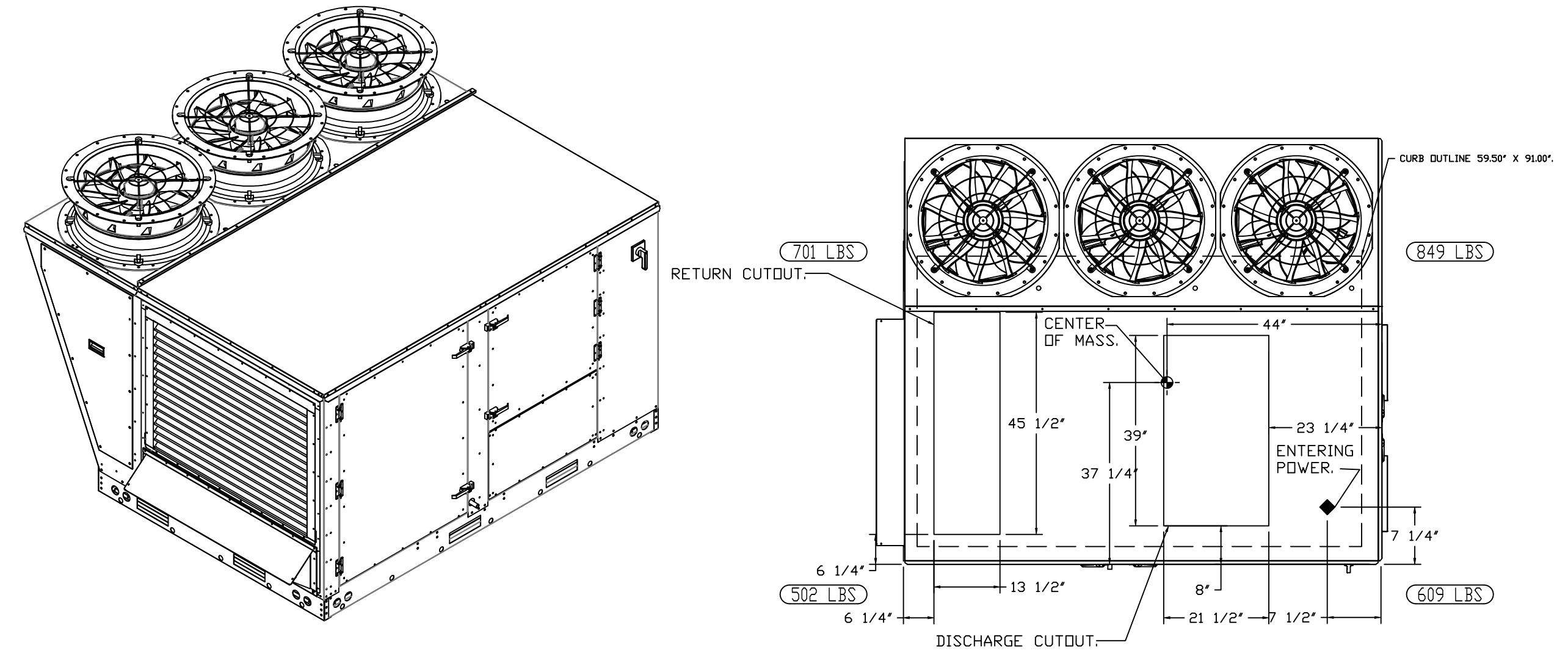


FAN #6 CAS-HVAC3-E.302-24MF-20T - HEATER (RTU-2- KITCHEN)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

\*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".



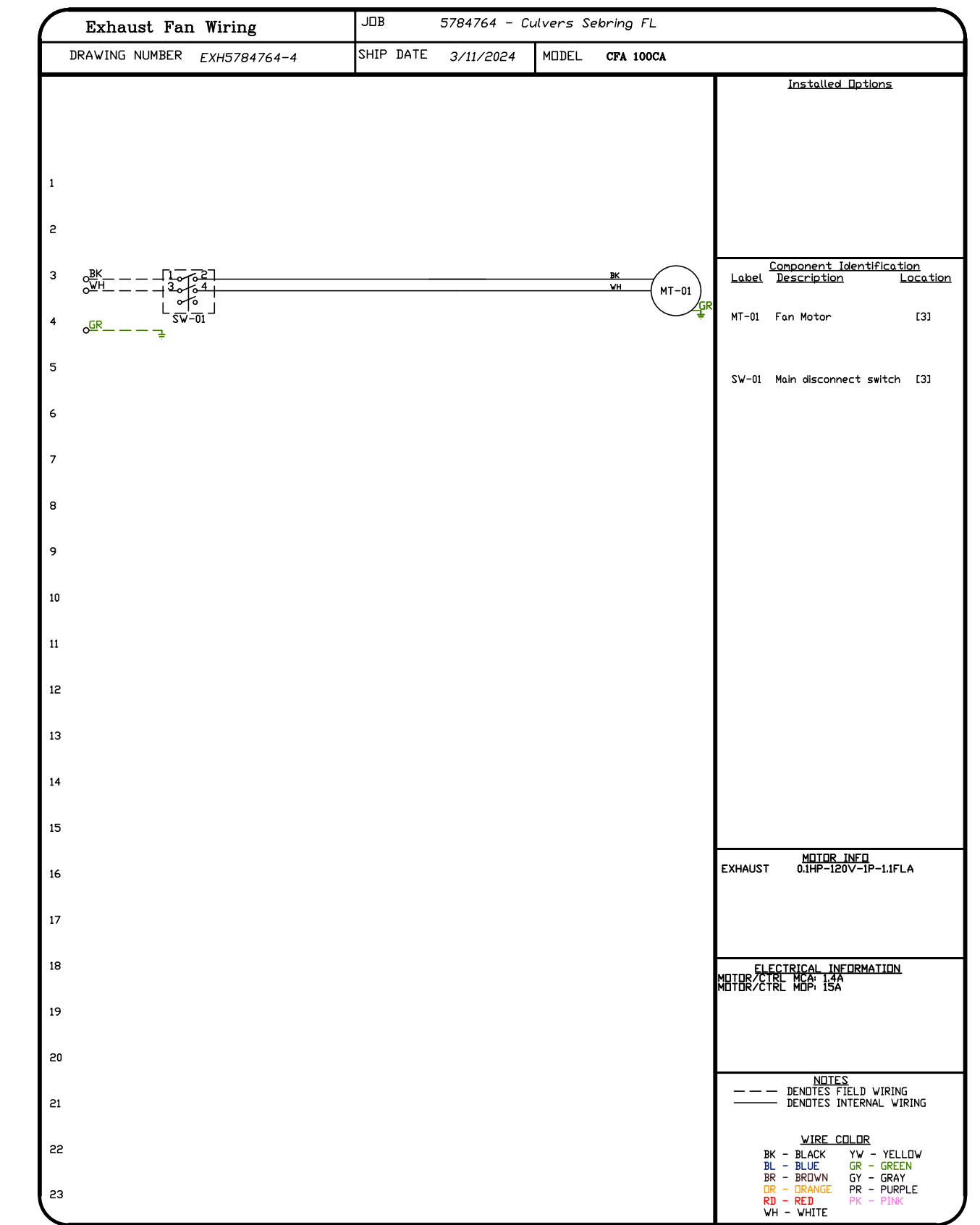
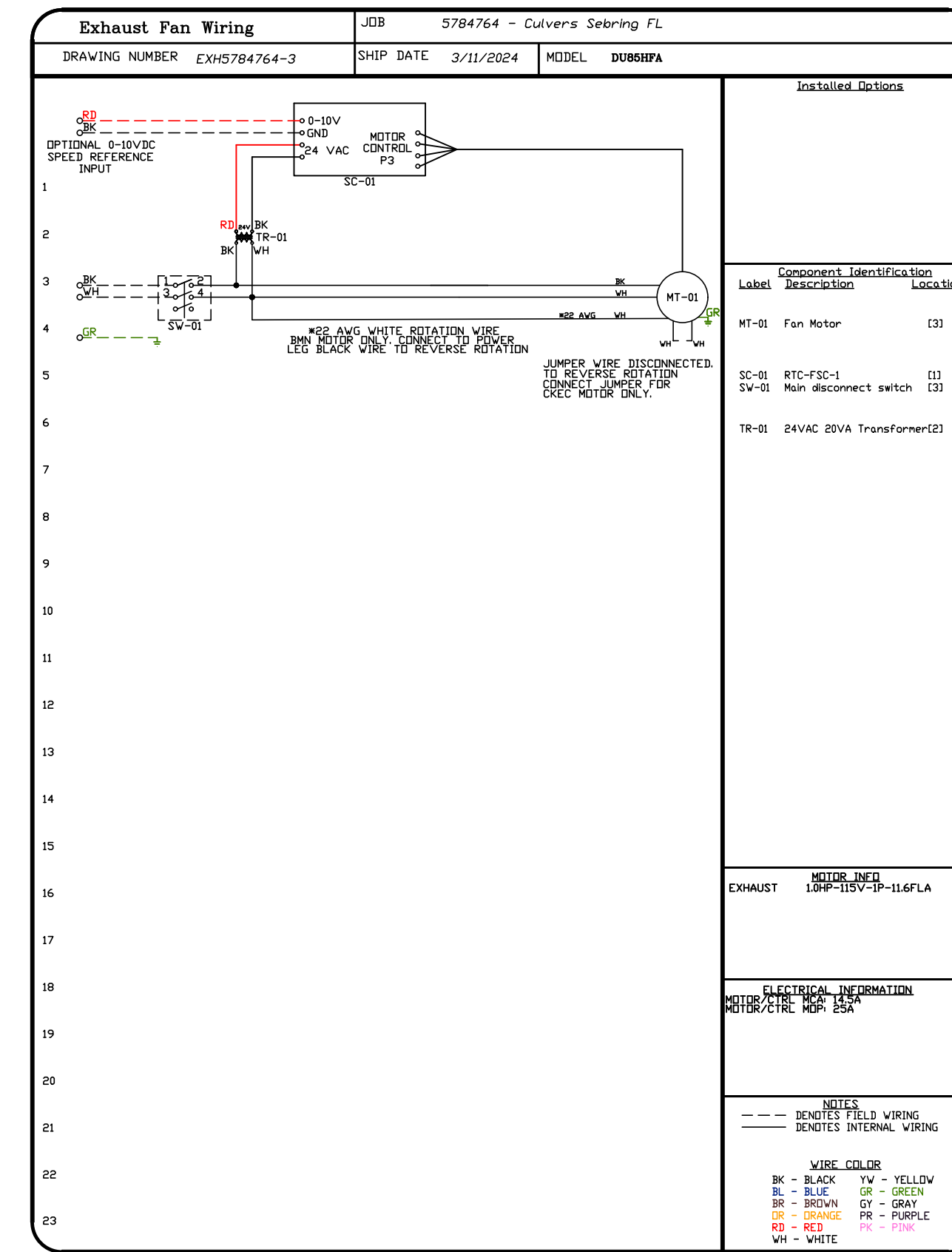
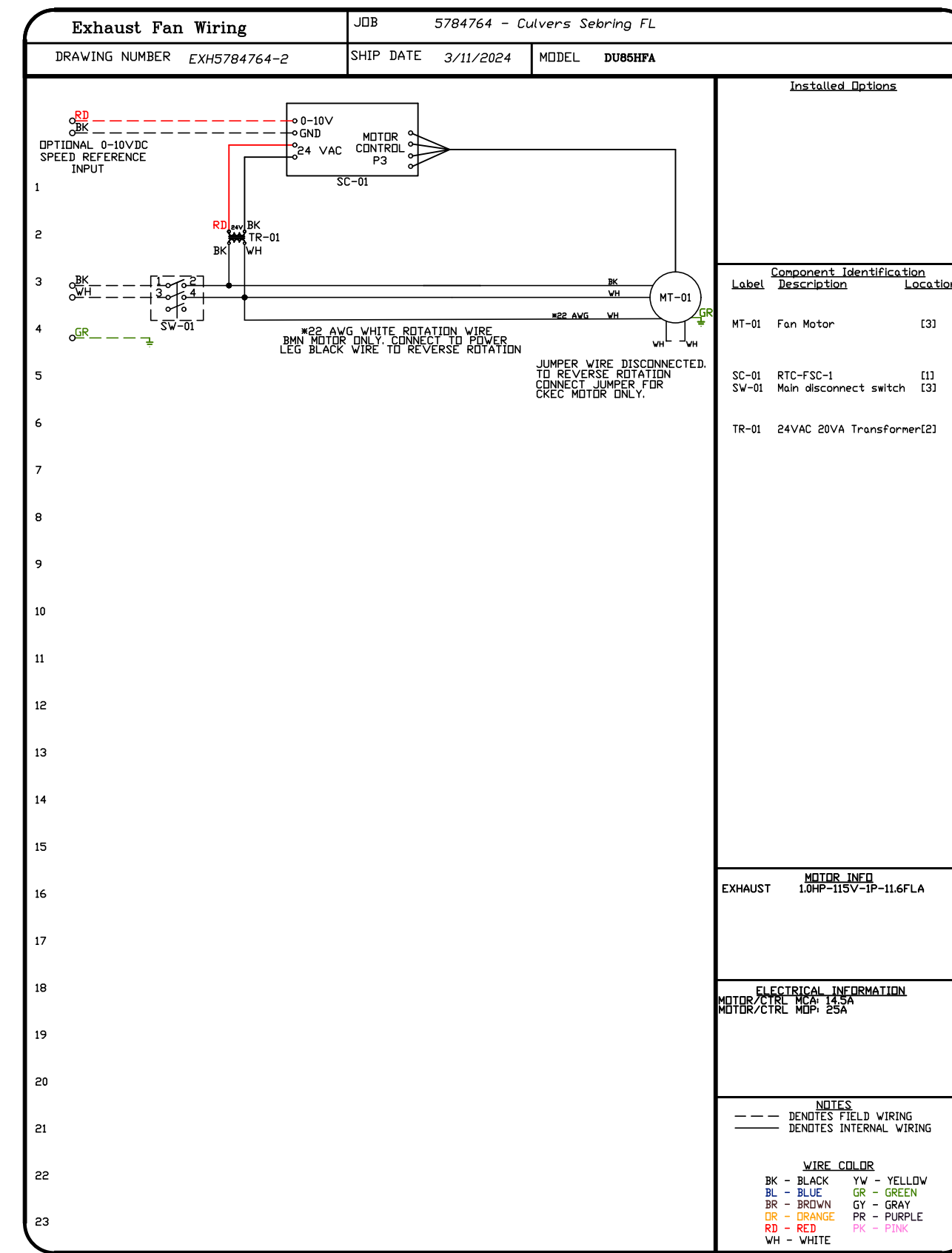
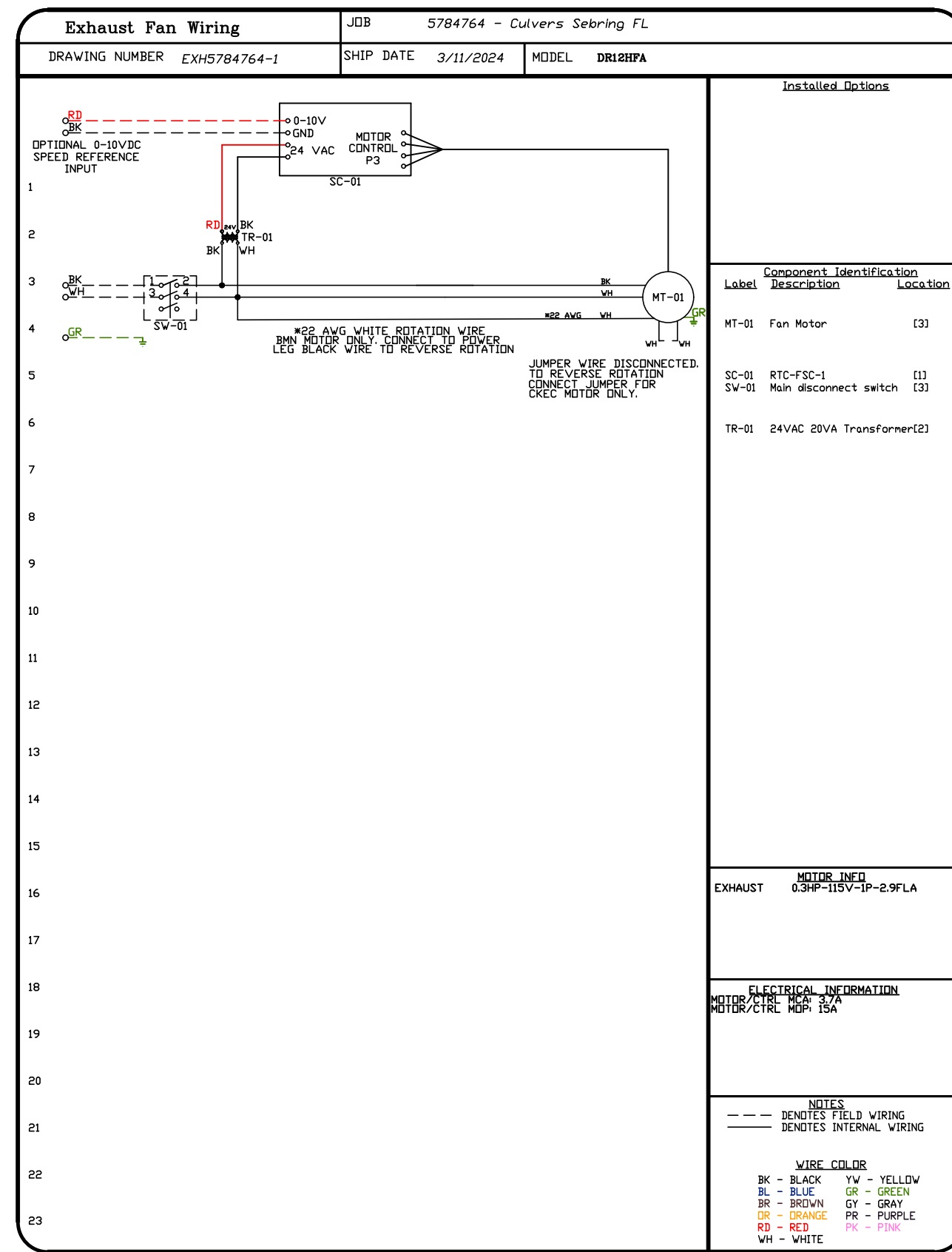
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Sebring, FL, 33870

DATE: 7/29/2024  
DWG.#: 5784764  
DRAWN BY: studdy jr  
SCALE: 1/2" = 1'-0"  
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SHEET NO.  
10



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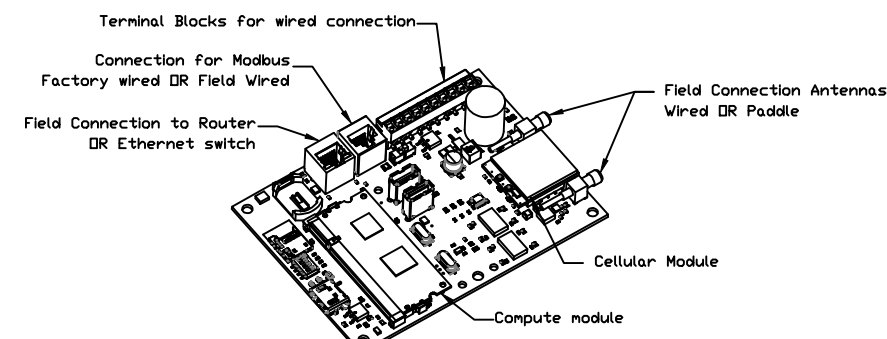
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SHEET NO. 11



ELECTRICAL PACKAGE - JOB#5784764

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-E012011MA	WALL MOUNT IN SS BDX	SHIP LOOSE W/ PREWIRE	1 LIGHT	SMART CONTROLS THERMSTATIC CONTROL W/ RELAY DN/OFF WITH SUPPLY	PRV-2 Griddle	EXHAUST	1	1.000	115	11.6
					1 FAN		RTU-2- Kitchen	SUPPLY	3	10.000	208	27.0

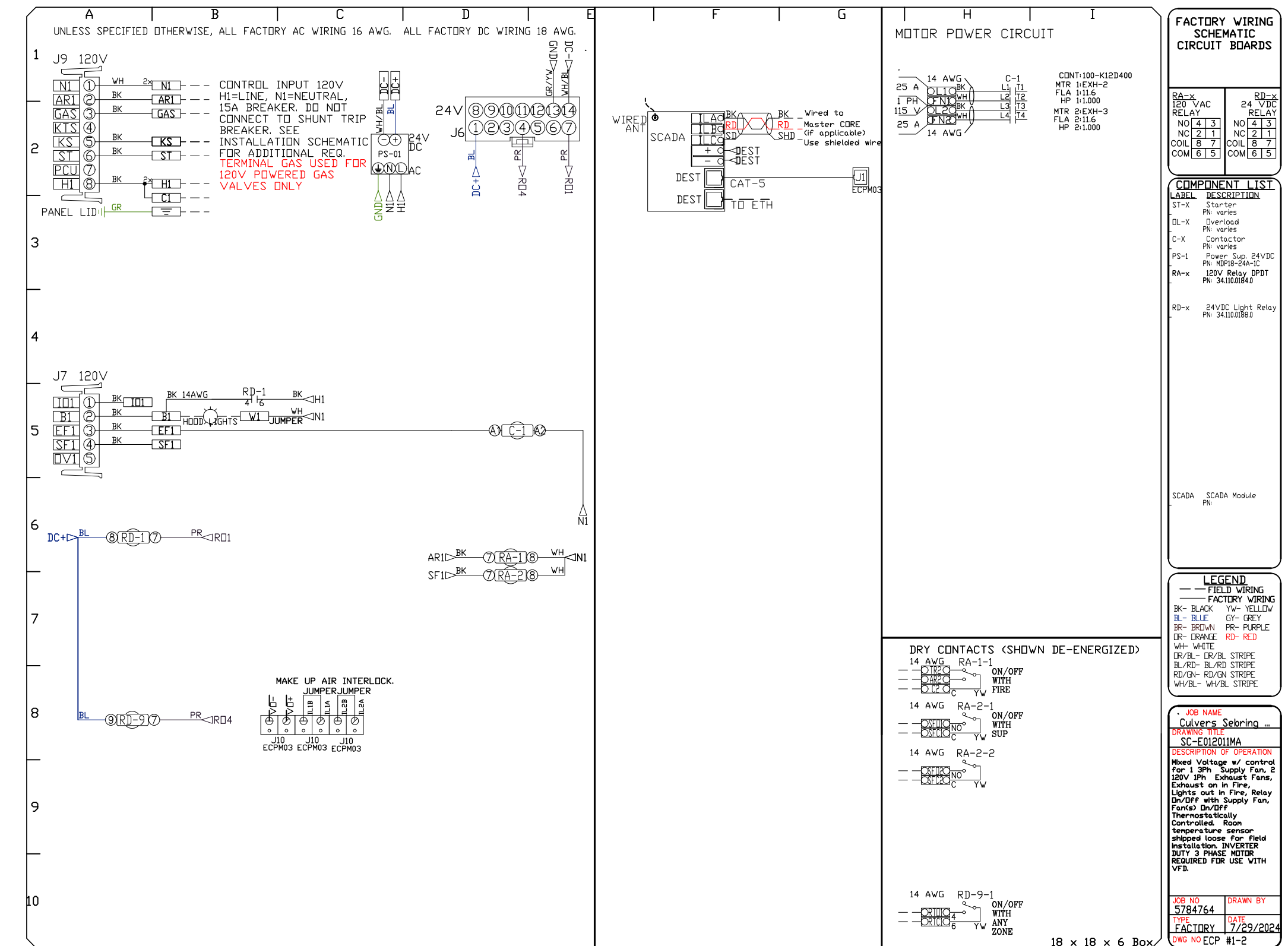
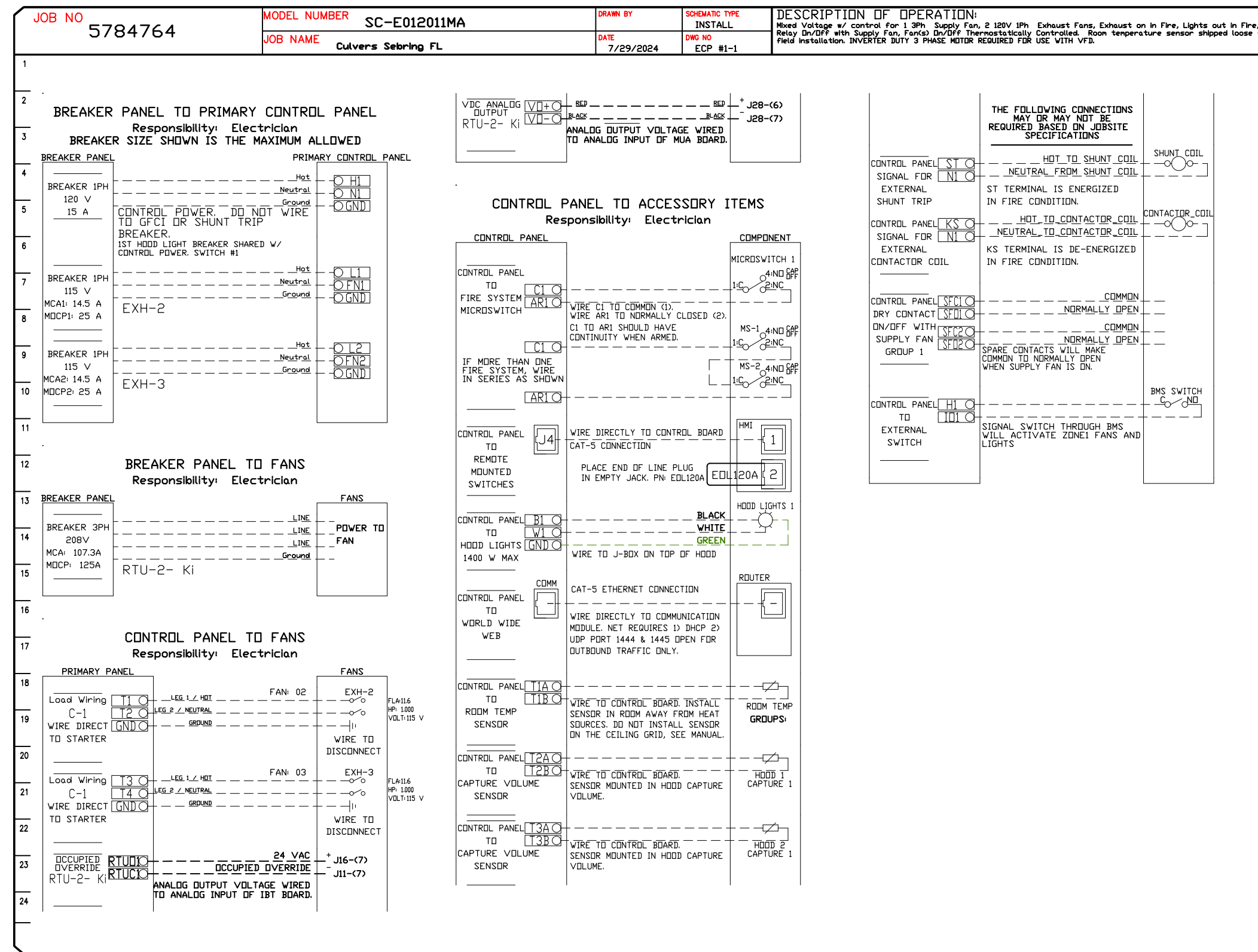


CASlink Monitor and Control

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

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	PCU Faults	MONITOR
YFD Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Controller Faults	MONITOR	Fan Status	MONITOR
Fan Status	MONITOR	Flow Condition	MONITOR
PCU Faults	MONITOR	CORE Fire System	MONITOR
PCU Filter Clog Percentages	MONITOR	Building Pressures	MONITOR
Fire Condition	MONITOR	Room Temp	MONITOR
CORE Fire System	MONITOR	Room Temp	MONITOR
Building Pressures	MONITOR	Room Temp	MONITOR
Prep Time Button	MONITOR & CONTROL	Room Temp	MONITOR
Fans Button	MONITOR & CONTROL	Room Temp	MONITOR
Lights Button	MONITOR & CONTROL	Room Temp	MONITOR
Wash Button	MONITOR & CONTROL	Room Temp	MONITOR



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 DRAWN BY: studdy jr  
 SCALE: 3/4" = 1'-0"  
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13

DUCTWORK #1 PARTS - JOB#5784764 DOUBLE WALL GREASE DUCT

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P2	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P3	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P4 ASSEMBLED W/P5	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL *V* CLAMPS.
P5 ASSEMBLED W/P4 D=B	DW2312TPDBEX						8.00		1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN.
P6	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P7	DW1247DWLT-2R-S						54.71		1	DOUBLE WALL DUCT - 12" INNER DUCT, 47" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P8	DW1235DWLT-2R-S						40.86		1	DOUBLE WALL DUCT - 12" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P10	DW1247DWAJDP-2R-S						82.74		1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL *V* CLAMPS.
P10 ASSEMBLED W/P9 D=B	DW2312TPDBEX						8.00		1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN.
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		6	DUCT - 12" DUCT - 16" DOUBLE *V* CLAMP - 2R INSULATION & SINGLE *V* CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT							522.28			

DOUBLE WALL FACTORY BUILT DUCTWORK

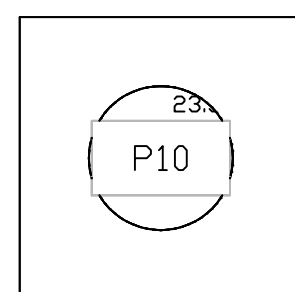
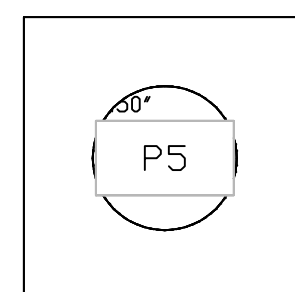
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

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

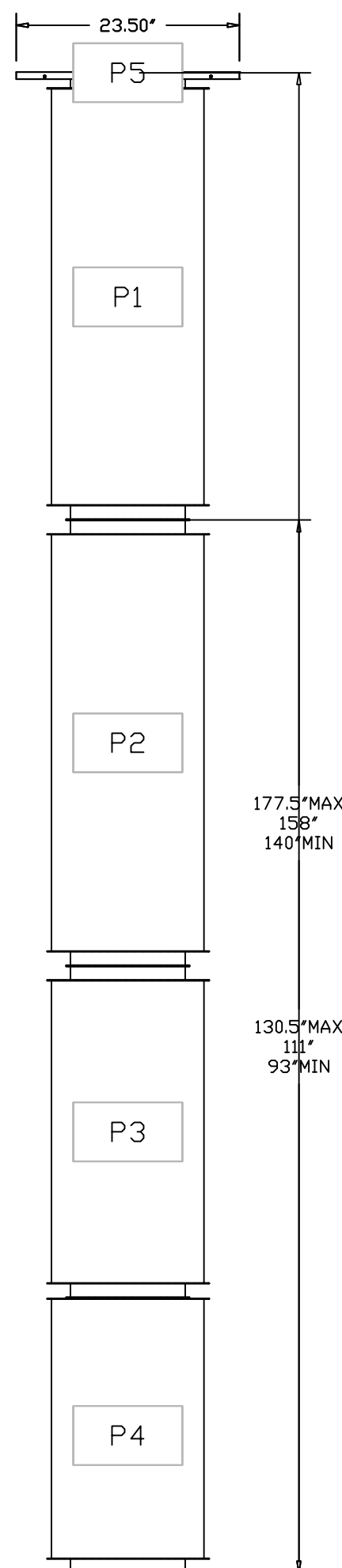
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

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

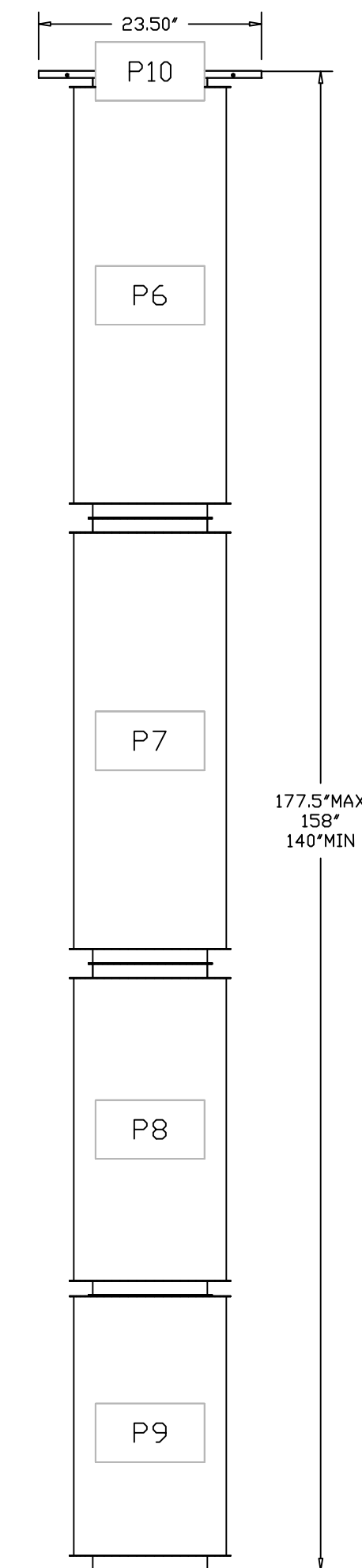
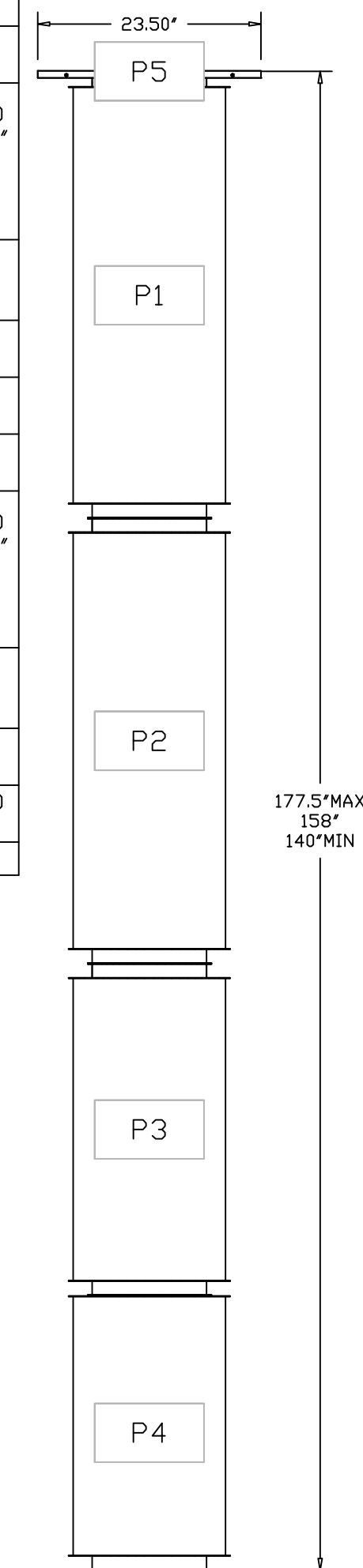
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



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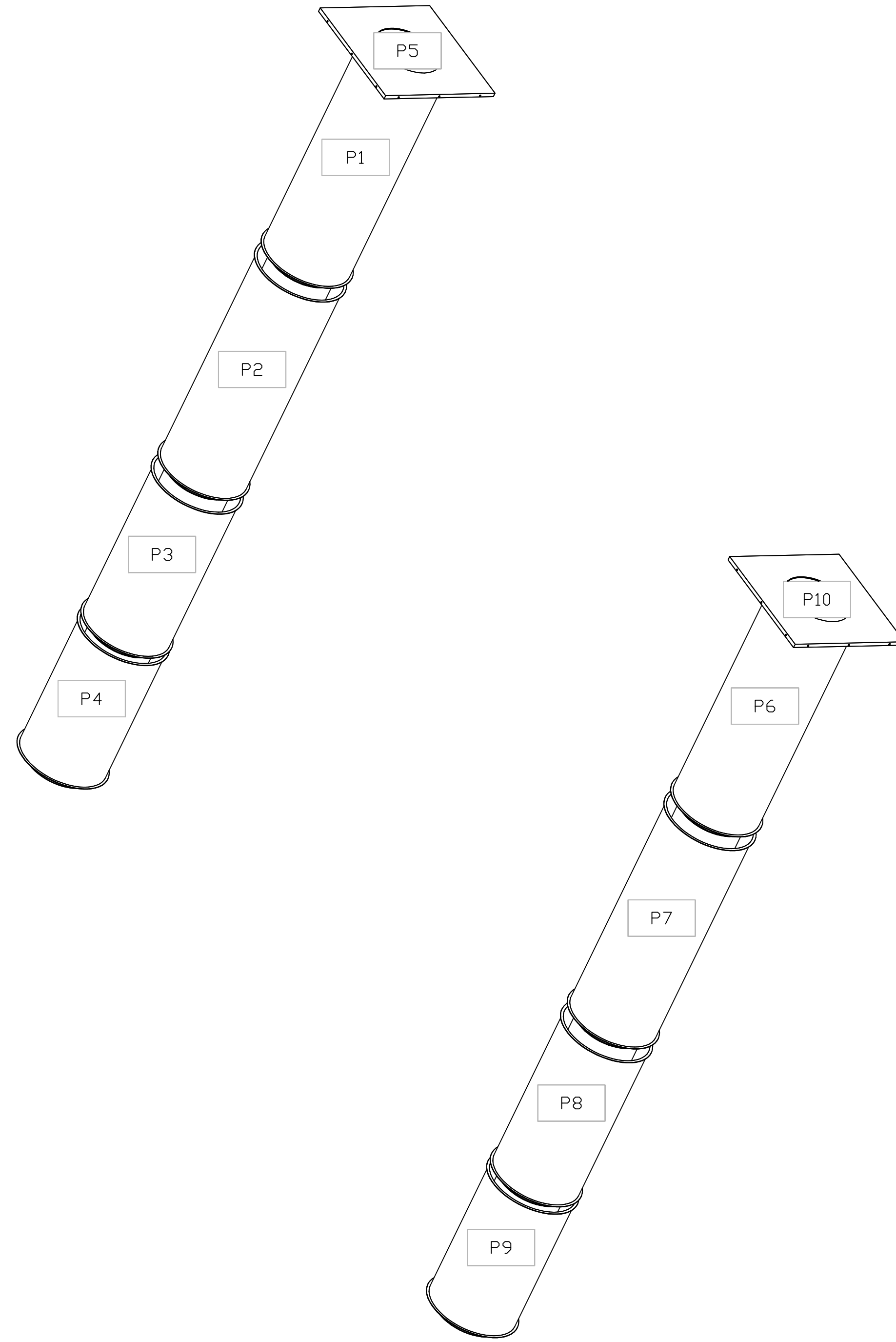
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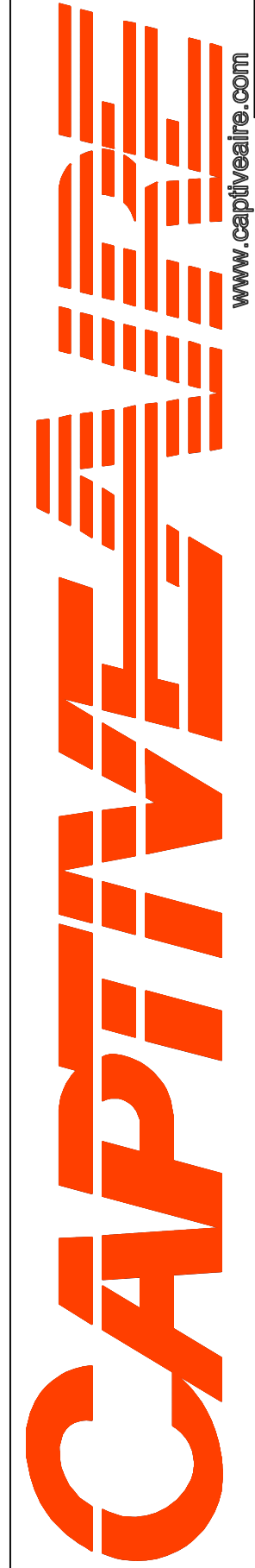
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DUCTWORK #1 SE VIEW  
GREASE DUCT



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15

SYSTEM DESIGN VERIFICATION (SDV)

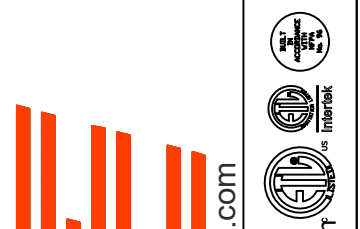
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

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.

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DESCRIPTION	DATE:
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**DRAWN BY:** sluddy jr

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

**MASTER DRAWING**

**SHEET NO.**  
16