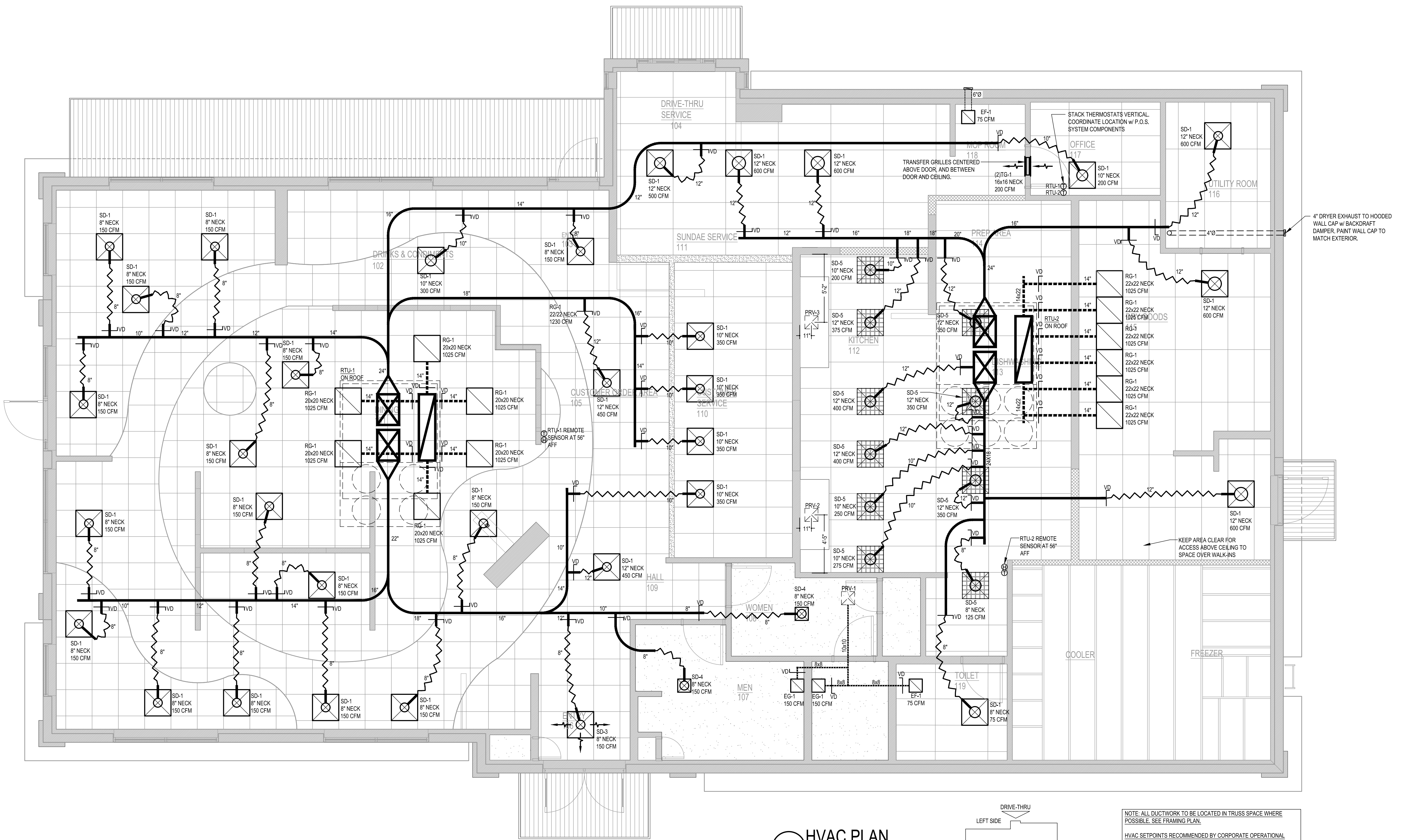
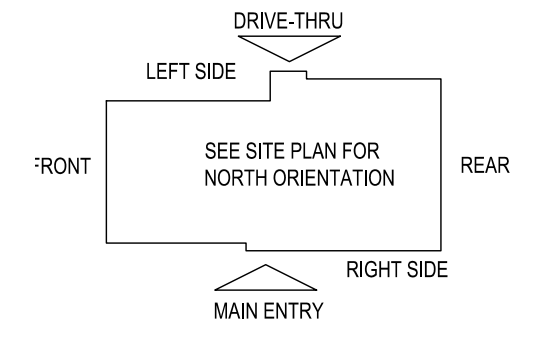


SCBD
By Steve Wilcox at 9:29 am,
3/25/25

Electronically
Transmitted Copy



E5 HVAC PLAN
SCALE: 1/4" = 1'-0"



NOTE: ALL DUCTWORK TO BE LOCATED IN TRUSS SPACE WHERE POSSIBLE. SEE FRAMING PLAN.
HVAC SETPOINTS RECOMMENDED BY CORPORATE OPERATIONAL GUIDELINES:
1. DINING: HEATING 70°, COOLING 72°
2. KITCHEN: HEATING 66°, COOLING 74°
ALL MECHANICAL ROOF EQUIPMENT REQUIRE STRAPS TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, BUILDING. SEE STRUCTURAL PLANS FOR SPECIFICATIONS.

SUPPLY DUCTWORK SIZING TABLE*

ROUND		RECTANGULAR	
SIZE	CFM RANGE	SIZE	CFM RANGE
8"	115 - 235	8"x8"	205 - 300
10"	240 - 435	10"x8"	305 - 400
12"	440 - 710	10"x10"	405 - 550
14"	715 - 1,070	12"x10"	555 - 700
16"	1,075 - 1,530	12"x12"	705 - 900
18"	1,535 - 2,090	14"x12"	905 - 1,105
20"	2,095 - 2,760	16"x12"	1,110 - 1,315
22"	2,765 - 3,550	18"x12"	1,320 - 1,520
24"	3,555 - 4,470	20"x12"	1,525 - 1,740
*CONTRACTOR MAY SUBSTITUTE RECTANGULAR FOR ROUND DUCTWORK ON MAIN RUNS AT THEIR DISCRETION. BRANCHES TO DIFFUSERS TO REMAIN ROUND.			
		22"x12"	1,745 - 1,950
		24"x12"	1,955 - 2,170
		26"x12"	2,175 - 2,400
		28"x12"	2,405 - 2,610
		30"x12"	2,615 - 2,840
		32"x12"	2,845 - 3,070
		34"x12"	3,075 - 3,290
		36"x12"	3,295 - 3,520
		36"x14"	3,525 - 4,420

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	SERVICE	TYPE	MATERIAL	THROW	FACE	NECK	MOUNTING	MANUFACTURER/MODEL	Notes
SD-1	SUPPLY	LOUVERED	STEEL	4-WAY	24X24	SEE PLAN	LAY-IN	RAYMON PRO2	2.4
SD-2 - NOT USED									
SD-3	SUPPLY	LOUVERED	STEEL	3-WAY	12X12	SEE PLAN	SURFACE	RAYMON PRO2/QMF/DAG	2.4
SD-4	SUPPLY	LOUVERED	STEEL	4-WAY	12X12	SEE PLAN	SURFACE	RAYMON PRO2/QMF	2.4
SD-5	SUPPLY	PERFORATED	STEEL	PERFORATED	24X24	SEE PLAN	LAY-IN	RAYMON RPR	2.4
RG-1	RETURN	SQUARE EGGRATE	ALUMINUM	N/A	24X24	22X22	LAY-IN	RAYMON FGEC-TB1	2.3, 4
EG-1	RETURN	LOUVERED GRILLE	ALUMINUM	N/A	12X12	SEE PLAN	SURFACE	RAYMON RA-HVD	1.2, 4
TG-1	TRANSFER	LOUVERED GRILLE	ALUMINUM	N/A	SEE PLAN	SEE PLAN	SURFACE	RAYMON RA-RH	2.4
DIFFUSER NOTES:									
1. PROVIDE w/ ADJUSTABLE OPPOSED BLADE DAMPER									
2. VERIFY ALL DIFFUSERS AND RETURN GRILLE COLORS WITH OWNER AND ARCHITECT									
3. PROVIDE w/ 22X22 PLENUM BOX.									
4. ALL DIFFUSERS AND RETURNS LOCATED IN BLACK CEILING SHALL BE FLAT BLACK FINISH.									

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

HOOD INFORMATION - JOB#7491106

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	RDW
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						NO	235 LBS	
2	FRYER HOOD	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO						NO	290 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.

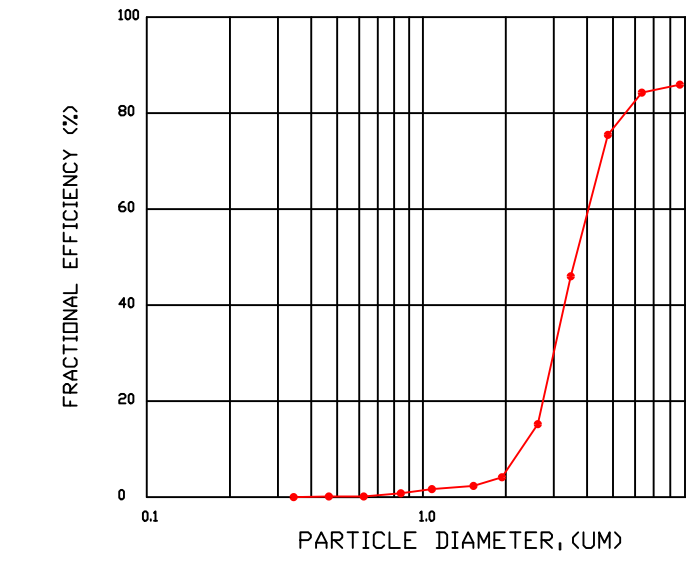
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

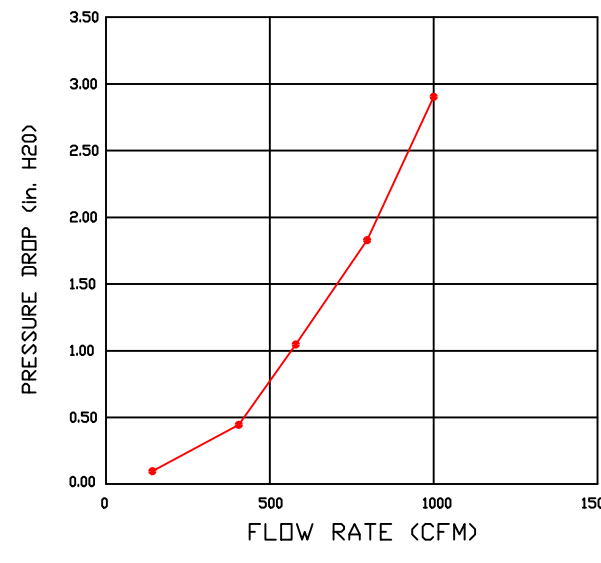
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

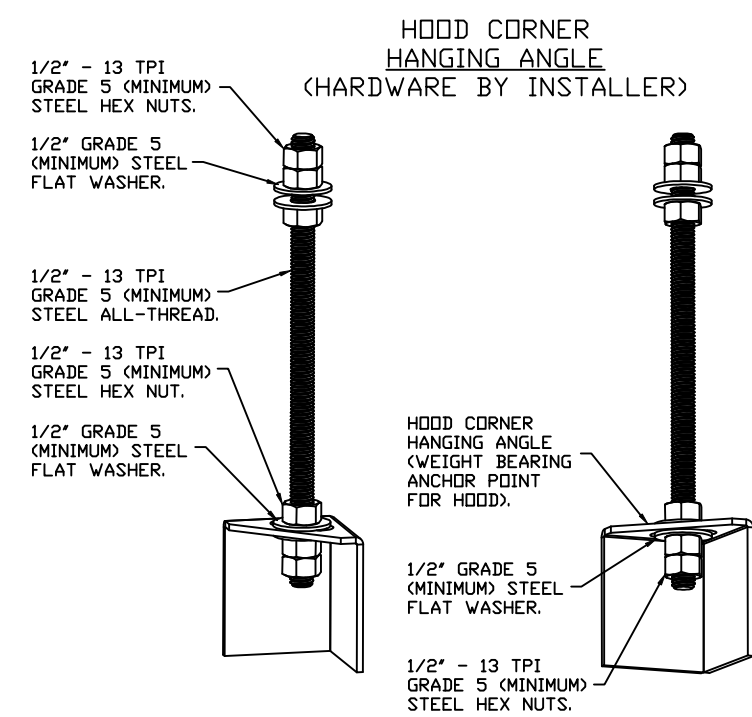


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96.
 NSF STANDARD #2.
 UL STANDARD #1046.
 INT. MECH. CODE (IMC).
 ULC-S649.



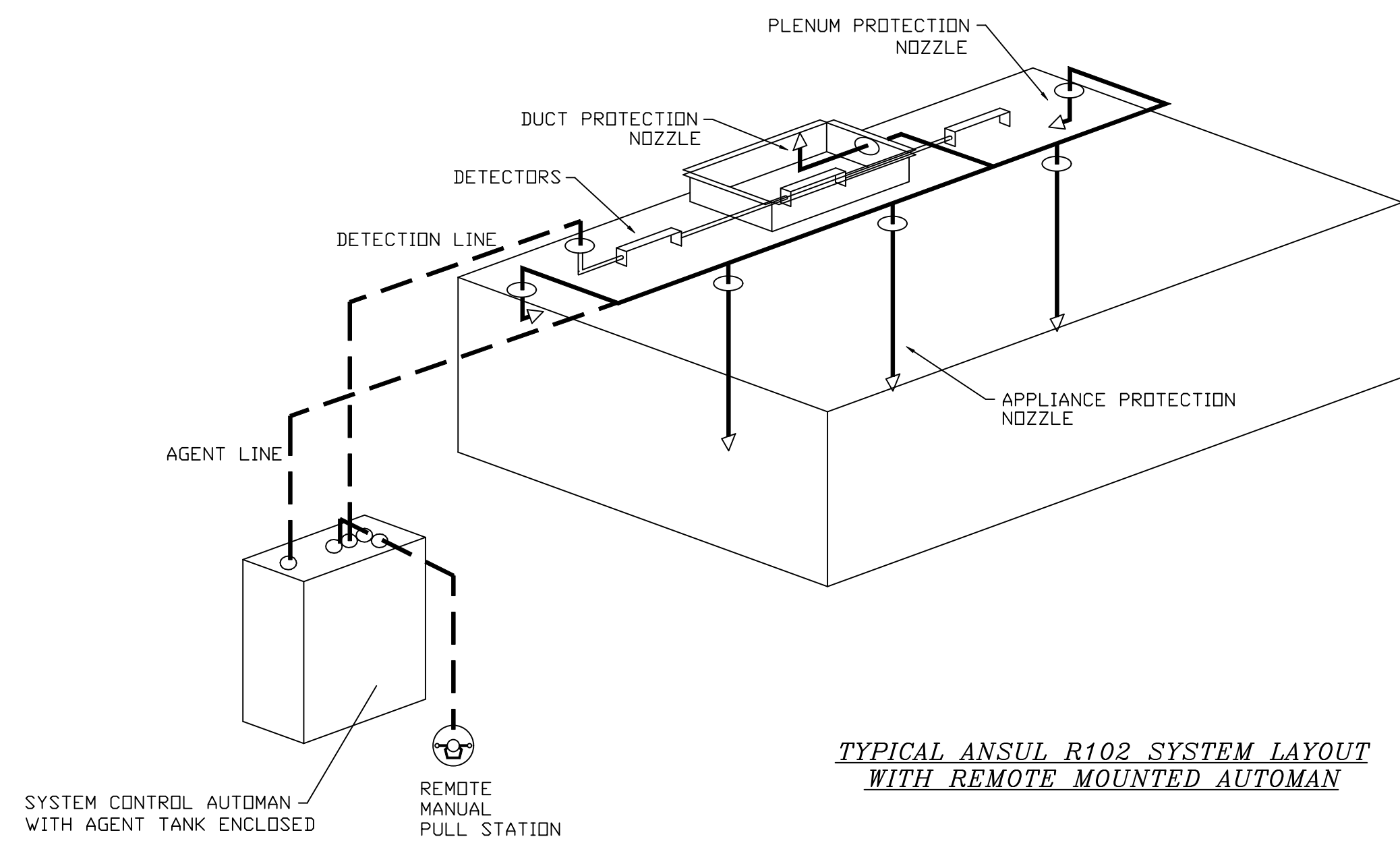
FIRE SYSTEM INFORMATION - JOB#6086473

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	14	WALL MOUNT LEFT	N/A
2		ANSUL R102	3.0	6	WALL MOUNT LEFT	N/A



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 DOUBLE 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.



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

REVISIONS

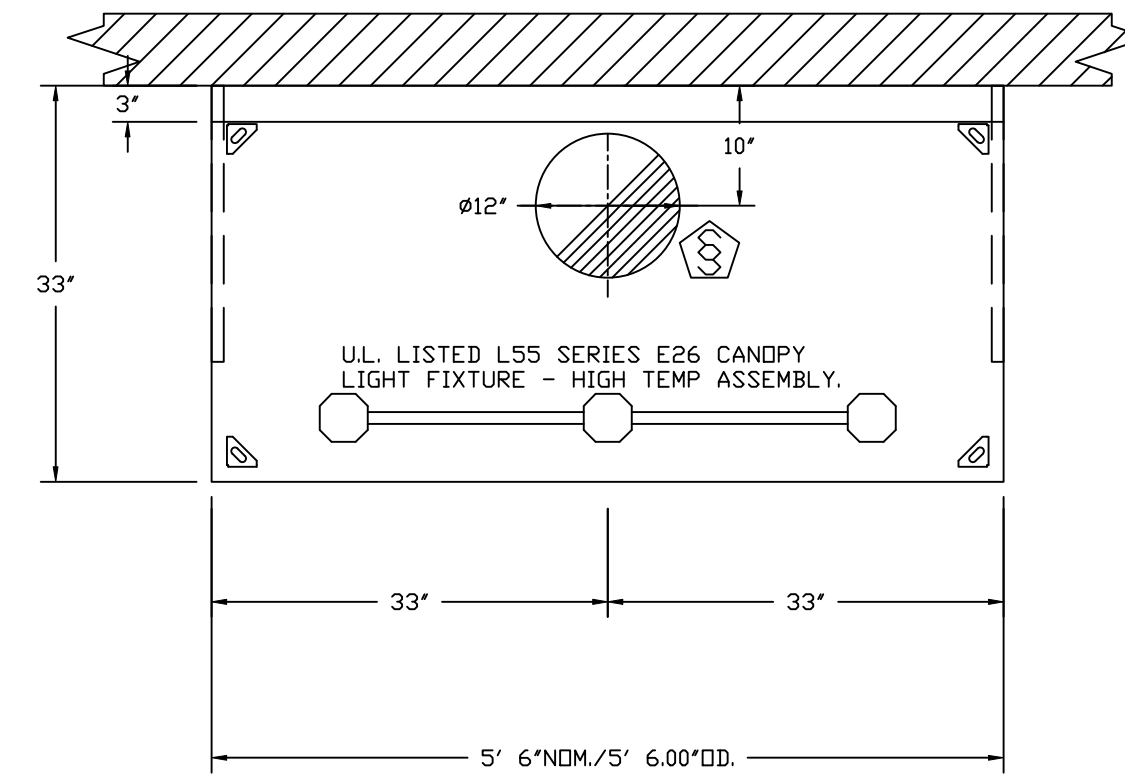
DESCRIPTION	DATE

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 www.captiveaire.com

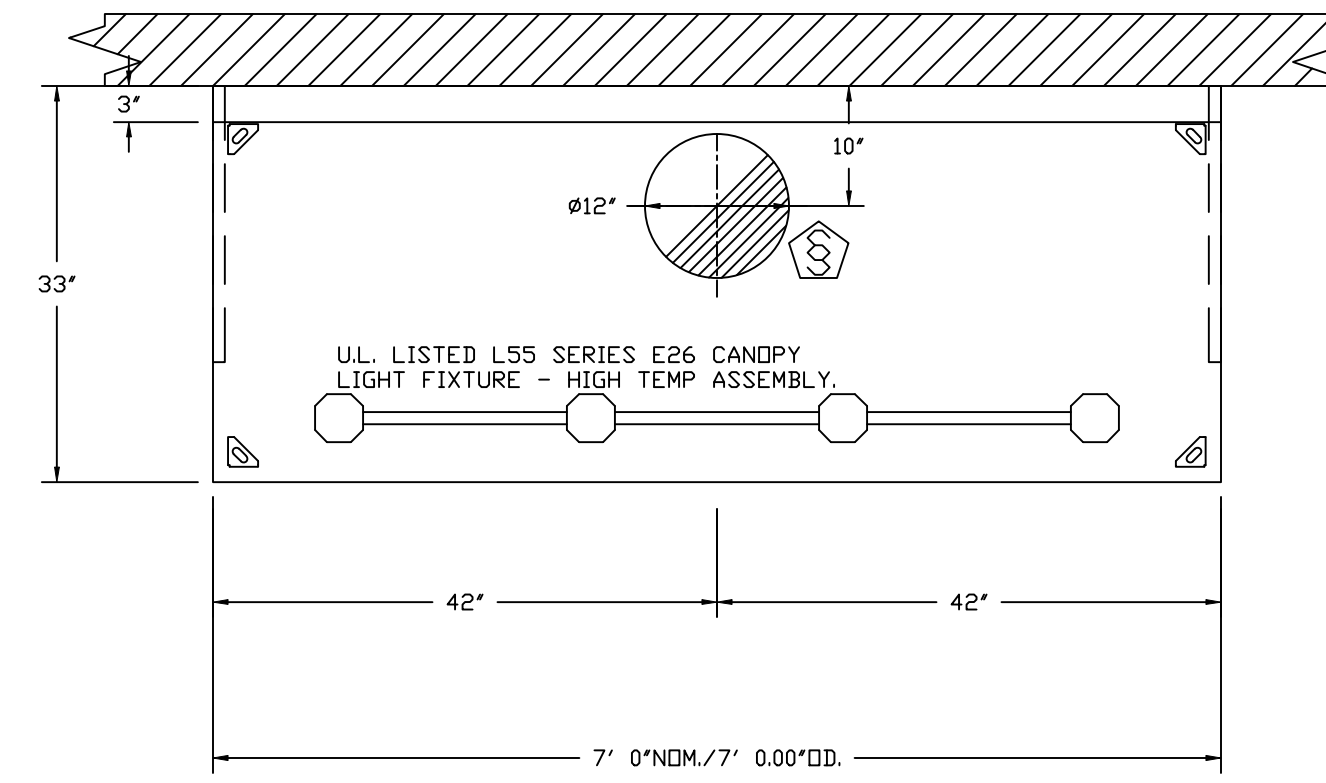
CULVERS BUSHNELL FL
 BUSHNELL, FL, 33513

DATE: 4/24/2025
 DWG.#: 7491106
 DRAWN BY: studdy jr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

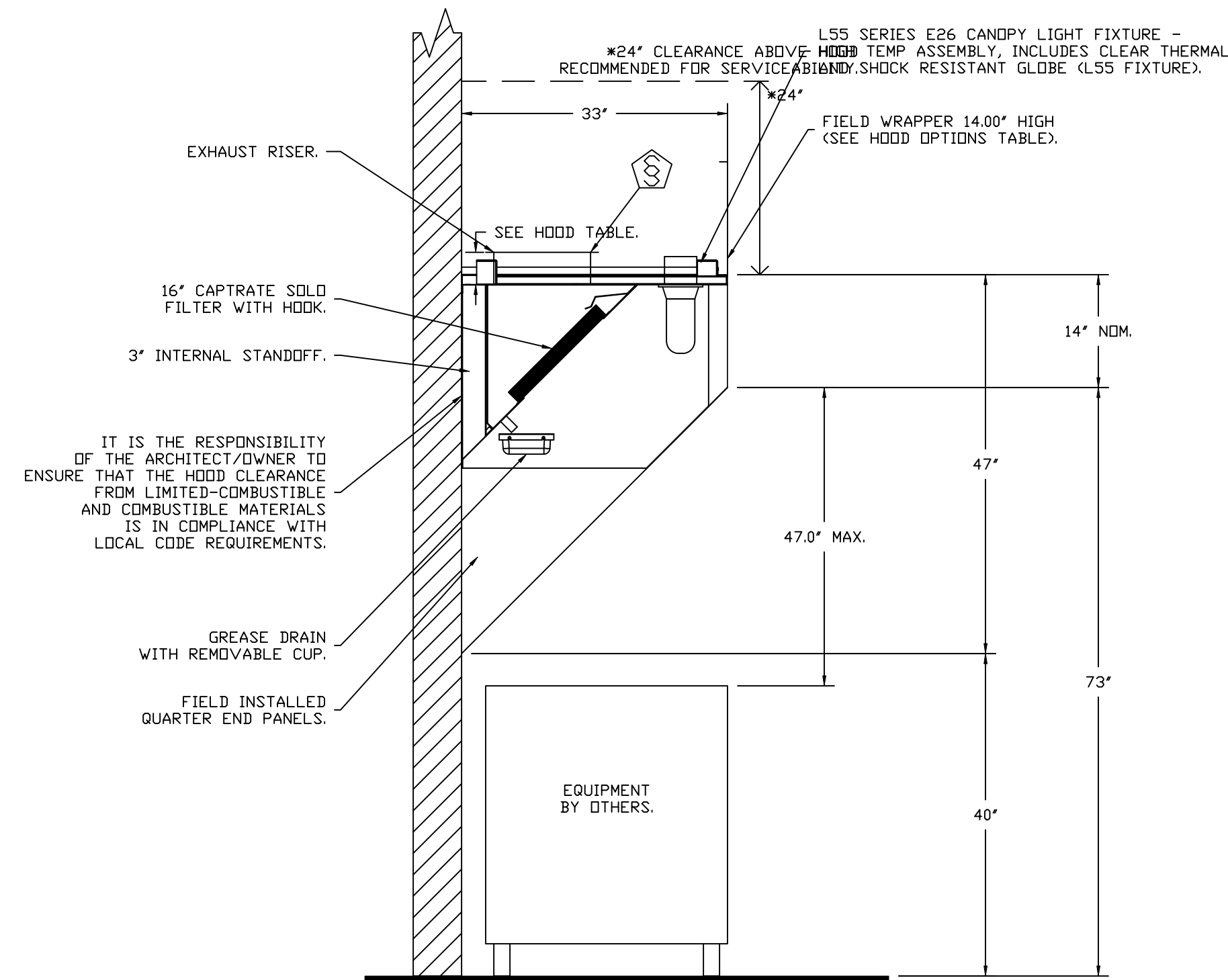
SHEET NO.
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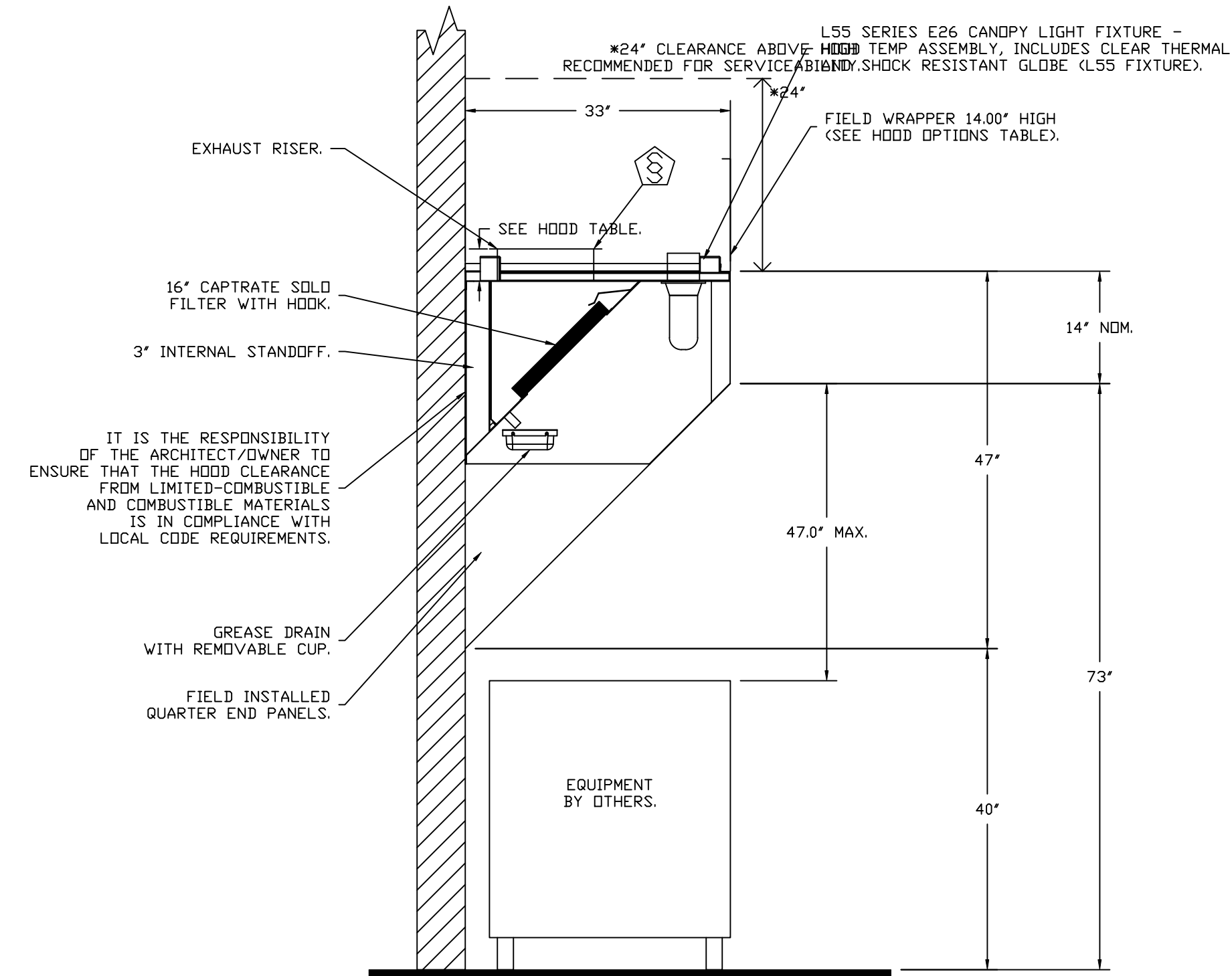
PLAN VIEW - HOOD #1 (GRIDDLE HOOD)
5' 6.00" LONG 3347BD-2



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)

REVISIONS	
DESCRIPTION	DATE


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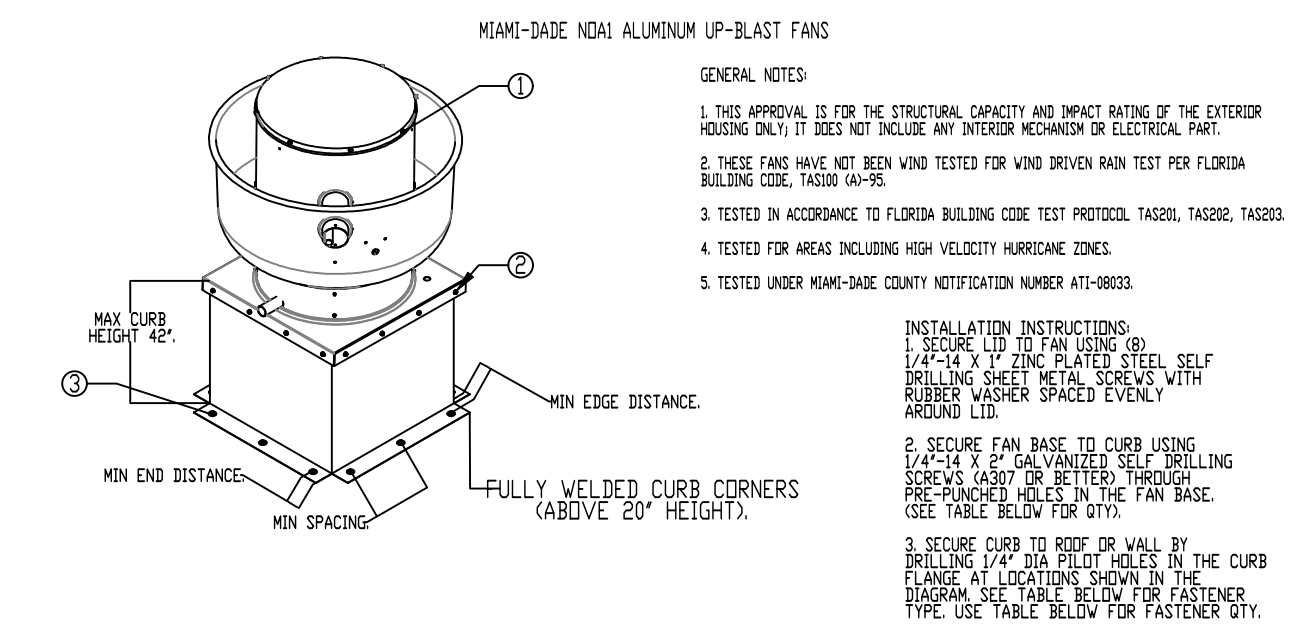
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 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

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 2

EXHAUST FAN INFORMATION – JOB#7491106

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	0.500	1369	TEAO-ECM	0.250	0.1110	1	115	2.9		88	7
2	PRV-2	1	DU85HFA	CAPTIVEAIRE	1500	1.412	1406	TEAO-ECM	1.000	0.5330	1	115	11.6	475 FPM	129	12.3
3	PRV-3	1	DU85HFA	CAPTIVEAIRE	1500	1.250	1348	TEAO-ECM	1.000	0.4700	1	115	11.6	475 FPM	129	11.3
4	EF-1	1	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERALPURPOSE	0.116	0.0510	1	115	1.1		26	N/A



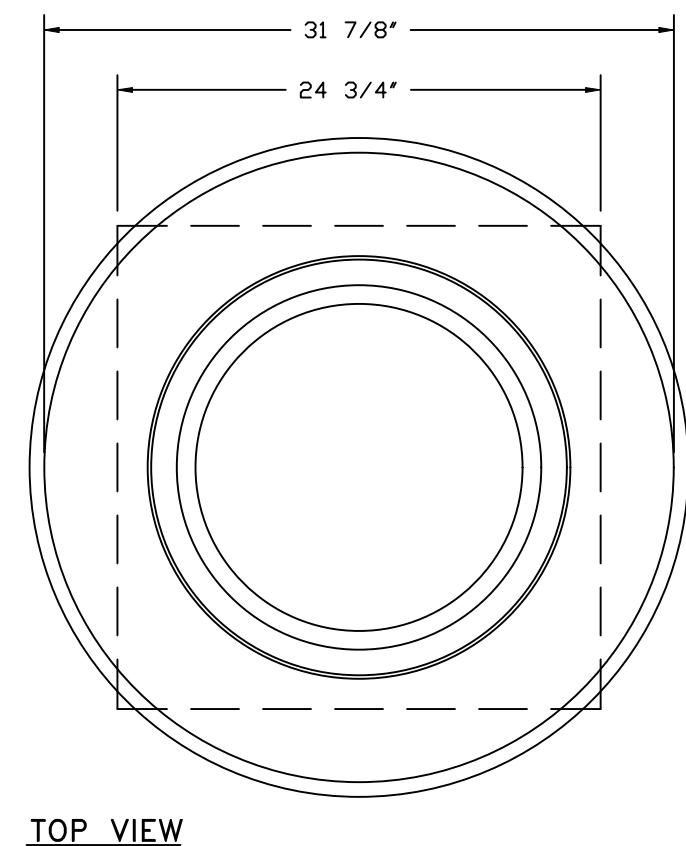
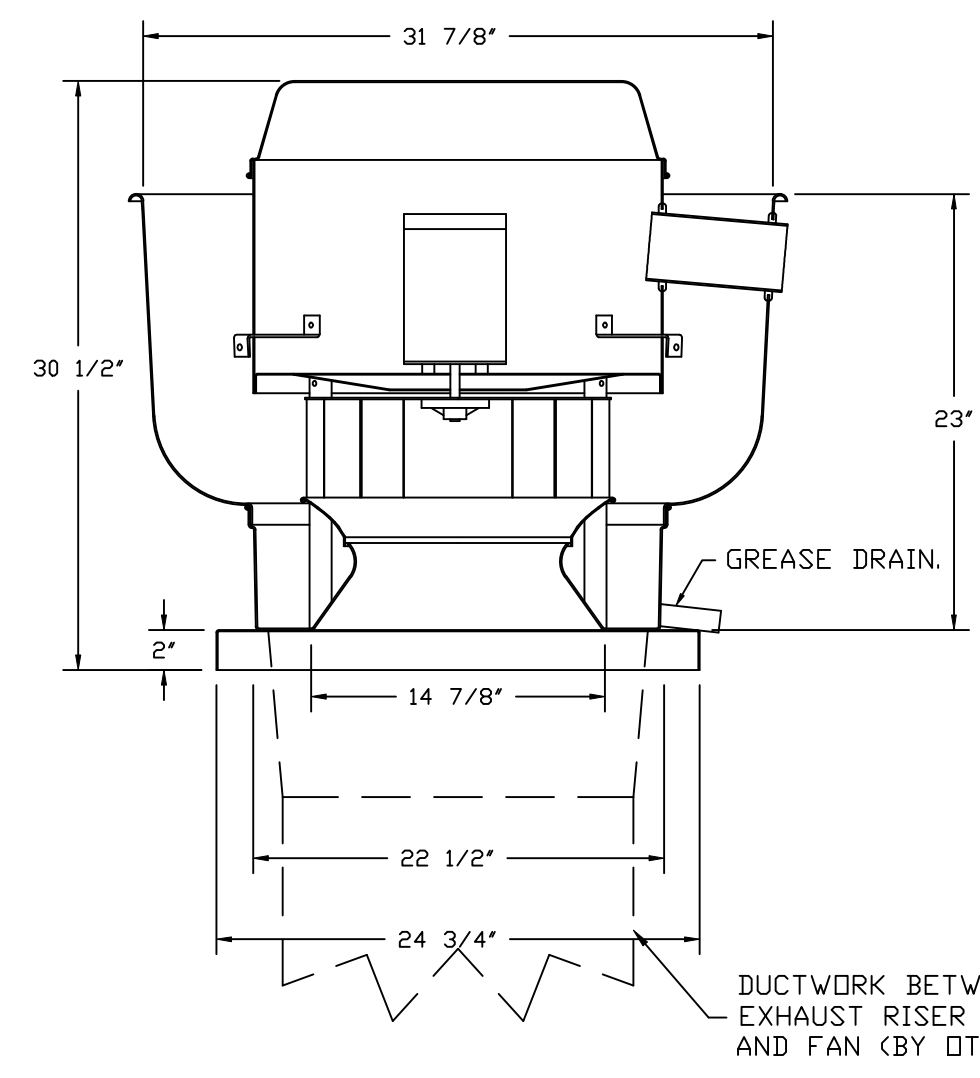
CURB MATERIAL:
 20" HIGH X LESS = 20 GA. STEEL
 ABOVE 20" HIGH 42" X 18 GA. STEEL

DESIGN PRESSURE: +1500 / -1500 PSF
 LARGE MISSILE IMPACT RESISTANT.

FAN MODEL	INSTALLATION FASTENER TYPES			
	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2800 PSI MIN. CRACKED CONCRETE)
FASTENER	5/16" X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER)	3/8" DIA. ZINC PLATED LAG BOLT	1/4" X 14 DRILL-FLEX SELF DRILLING SCREW	3/8" DIA. SS HILTI KWIK BOLT T2 EXPANSION ANCHOR
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	2"
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	3"
MINIMUM SPACING	N/A	1-1/2"	3/4"	5-1/2"

FAN MODEL	INSTALLATION FASTENER QTY							
	CURB TO FAN (ROOF)		CURB TO FAN (WALL)		WOOD (ROOF)		STEEL (ROOF)	
SUBS	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
	3	12	3	12	4	16	4	16

FANS #2 (PRV-2), #3 (PRV-3) – DU85HFA EXHAUST FAN



FEATURES:

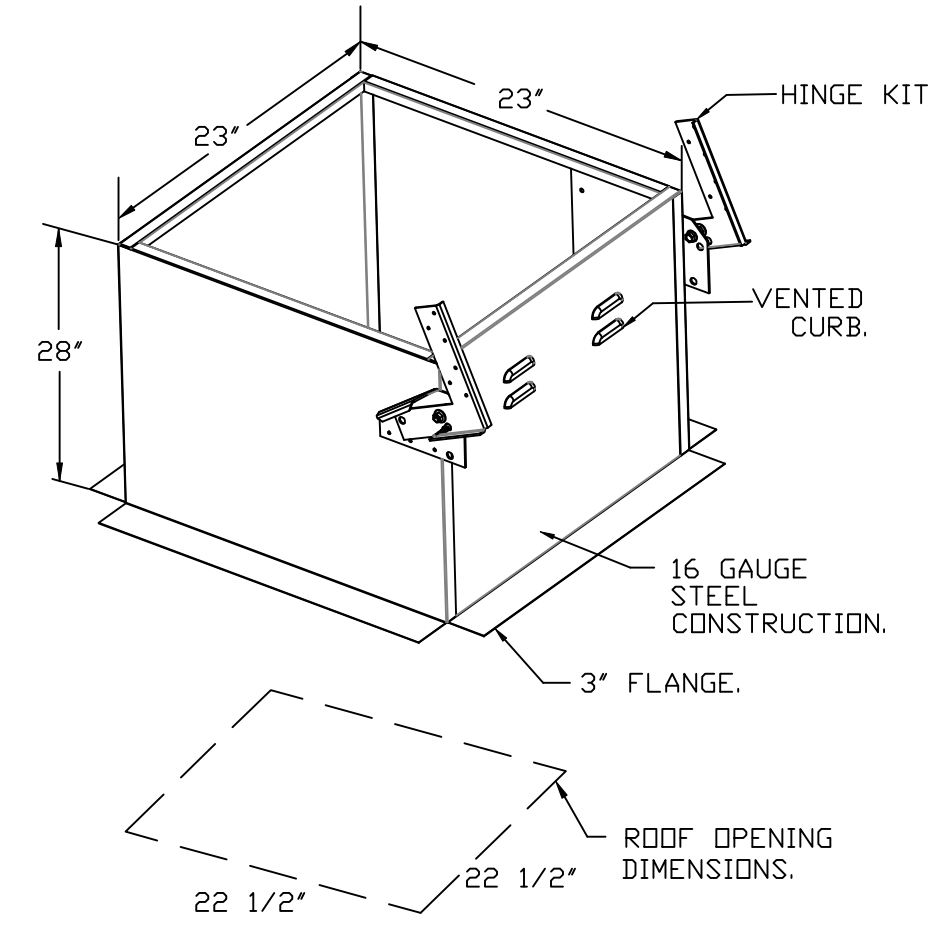
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

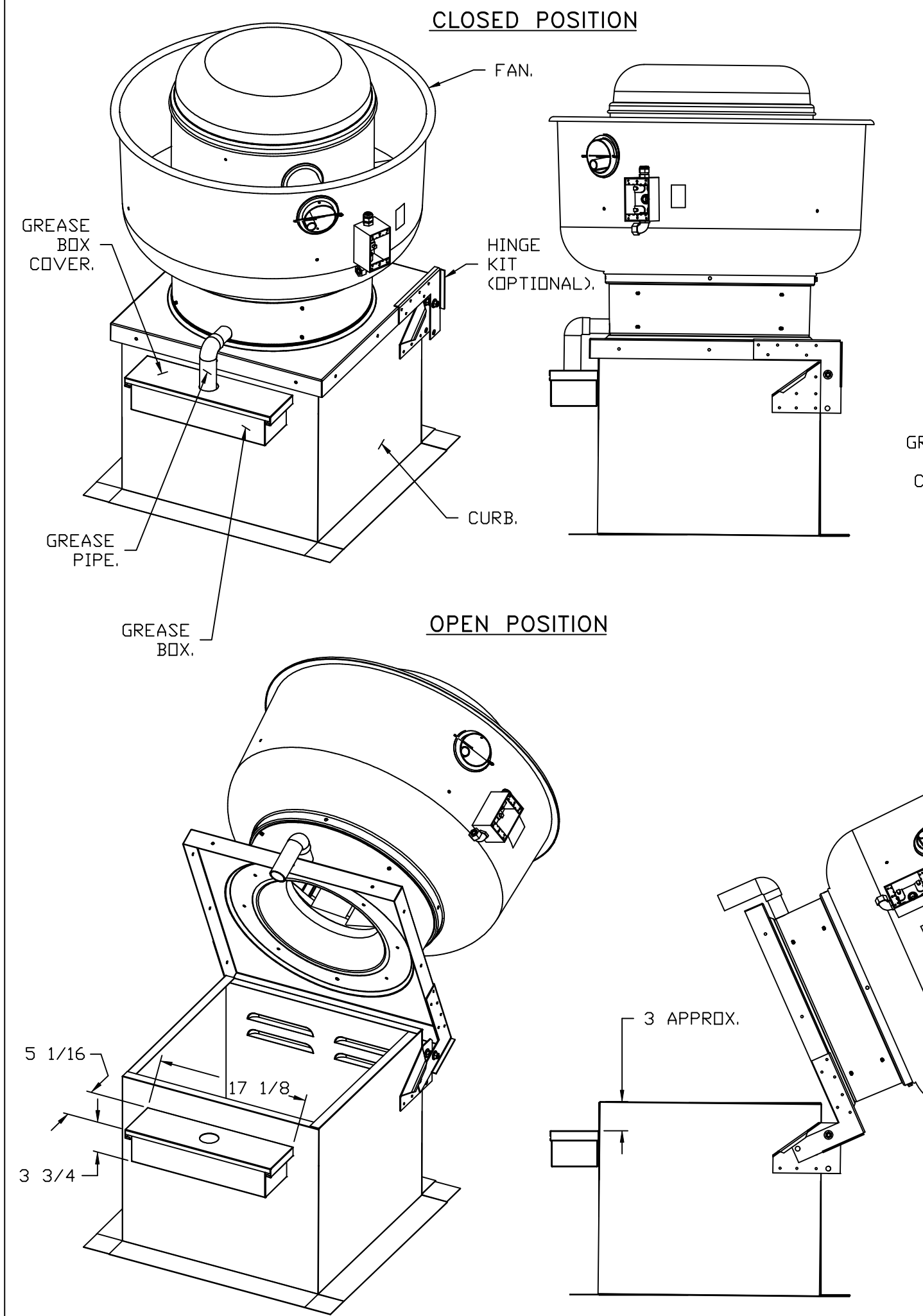
ABNORMAL FLARE-UP TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL – DU/DR85HFA
- SHIP LOOSE – FOR GREASE DUCTS.
- FULL CRATING FOR EXHAUST FANS.
- MIAMI DADE CERTIFICATION – NDA-1 ALUMINUM UPBLAST.
- ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL
- RTC – (TELED MOTOR); CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



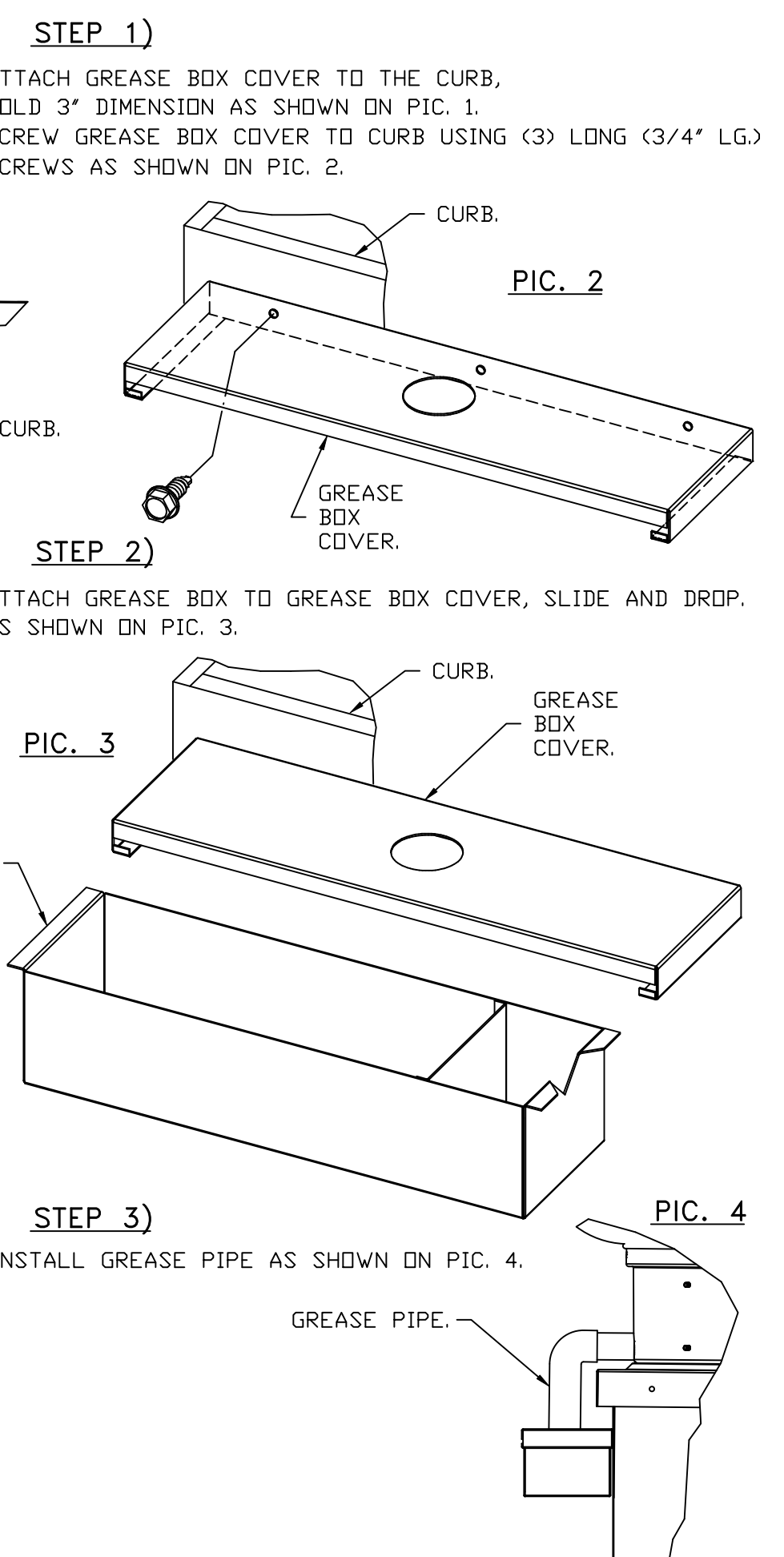
GREASE BOX INSTALLATION



PARTS INCLUDED

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

GREASE BOX FIELD INSTALLATION



*NOTE: UL 705 INSTALL.

REVISIONS

DESCRIPTION	DATE

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CULVERS BUSHNELL FL
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SHEET NO.
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DOAS/RTU FAN SCHEDULE -- JOB#7491106

FAN UNIT NO	TAG	QTY	FAN INFORMATION										ELECTRICAL INFORMATION										COOLING INFORMATION										REHEAT INFORMATION										ELECTRIC HEAT INFORMATION										A2L MINIMUM ROOM VOLUME										NOTES
			DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLTS	MCA	MDCP	OUTSIDE AIR DB	WB	MIXED AIR DB	WB	LEAVING AIR DB	WB	DP	CAPACITY TOTAL	SENS.	IEER	ISMRE	DISCHARGE DB	WB	DESIRED	MAX	MOISTURE REMOVAL RATE	DSGN KW'S	MAX KW'S	VOLTS	AMPS	TEMP RISE	ROOM AREA (SQ FT)	AIRFLOW (CFM)	HEIGHT (FT)																								
5	RTU-1 DINING	1	CAS-HVAC3-E.452-24-20T	CAPTIVEAIRE	24MF-3-RTU	4400	1750	6150	2699	0.250	10.00	3	208	144A	150A	92.0°F	77.0°F	79.8°F	66.7°F	53.2°F	53.2°F	53.3°F	244.9 MBH	175.0 MBH	18.2	6.0	70.0°F	60.8°F	116.3 MBH	129.6 MBH	64.1 LBS/HR	36	45	240	108.3	18 °F	572.7	1031	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20																							
6	RTU-2 KITCHEN	1	CAS-HVAC3-E.302-24-20T	CAPTIVEAIRE	24MF-3-RTU	4450	1700	6150	2695	0.250	10.00	3	208	107.9A	125A	93.0°F	77.0°F	80.0°F	66.7°F	53.2°F	53.2°F	53.3°F	244.8 MBH	176.8 MBH	18.2	6.0	70.0°F	59.9°F	116.3 MBH	129.6 MBH	62.4 LBS/HR	27	30	240	72.2	14 °F	572.7	1031	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20																							

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. ECM 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. 15 DEGREE LDW AMBIENT OPERATION
 14. MIAMI DADE RATED
 15. HAIL GUARD FOR CONDENSING COIL
 16. RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL
 17. BAROMETRIC RELIEF DAMPER
 18. DOWN DISCHARGE/DOWN RETURN
 19. SINGLE POINT POWER CONNECTION FOR UNIT & ELECTRIC HEATER
 20. MINIMUM ROOM AREA ASSUMED 7'-2" SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION	FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PRV-1 RESTROOM	1	1 12-BDD DAMPER	6	RTU-2 KITCHEN	1	RTU3 ECONOMIZER BAROMETRIC RELIEF
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	FULL CRATING FOR EXHAUST FANS			1	RTU3 HAIL GUARD
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM DOWNBLAST 10			1	RTU3 DOWN RETURN
2	PRV-2	1	2 YEAR PARTS WARRANTY	1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE		
		1	GREASE BOX	1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR		
		1	FAN BASE CERAMIC SEAL - DU/DRBSHFA - SHIP LOOSE - FOR GREASE DUCTS	1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)		
		1	FULL CRATING FOR EXHAUST FANS	1	RTU3 CURB DUCT HANGER		
3	PRV-3	1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION	1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT		
		1	2 YEAR PARTS WARRANTY	1	COOLING OVERRIDE		
		1	GREASE BOX	1	RTU BLOWER DOOR SWITCH		
4	EF-1	1	FAN BASE CERAMIC SEAL - DU/DRBSHFA - SHIP LOOSE - FOR GREASE DUCTS	1	RTU MERV 13 FILTERS FOR RTU3 (QTY: 4)		
		1	FULL CRATING FOR EXHAUST FANS	1	2" MERV 8 FILTERS FOR RTU3 (QTY: 4)		
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST	1	OVERHEAT STAT		
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION	1	TOTAL CFM MONITORING		
5	RTU-1 DINING	1	2 YEAR PARTS WARRANTY	1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW		
		1	MIAMI DADE CERTIFICATION - NDA-1 ALUMINUM UPBLAST	1	OCCUPIED SCHEDULING		
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION	1	INTAKE FIRESTAT SET TO 135°F		
		1	2 YEAR PARTS WARRANTY	1	FREEZESTAT		
		1	COOLING OVERRIDE	1	DISCHARGE FIRESTAT SET TO 240°F		
		1	CONSTRUCTION MODE - MODIFIES START-UP SETTINGS TO ALLOW TEMPERING A BUILDING STILL UNDER CONSTRUCTION	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
		1	RTU BLOWER DOOR SWITCH	1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B		
		1	2" MERV 13 FILTERS FOR RTU3 (QTY: 4)	1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED		
		1	2" MERV 8 FILTERS FOR RTU3 (QTY: 4)	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 #8B, #47, #M4, OR #E4 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.		
		1	OVERHEAT STAT	1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX		
		1	TOTAL CFM MONITORING	1	RTU3 MIAMI DADE CERTIFICATION		
		6	RTU-2 KITCHEN	1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE	1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL
1	RTU3 DOWN DISCHARGE ELECTRIC HEAT, 15-60KW			1	RTU3 ECONOMIZER BAROMETRIC RELIEF		
1	OCCUPIED SCHEDULING			1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI		
1	INTAKE FIRESTAT SET TO 135°F			1	RTU3 HAIL GUARD		
1	FREEZESTAT			1	RTU3 DOWN RETURN		
1	DISCHARGE FIRESTAT SET TO 240°F			1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE		
1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED			1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR		
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 #8B, #47, #M4, OR #E4 PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE.			1	24VAC FIRE INPUT		
1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX			1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE		
1	RTU3 MIAMI DADE CERTIFICATION			1	RTU3 CURB DUCT HANGER		
1	20 TON MODULATING COOLING OPTION, 208/230V, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS			1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (571 VFD INCLUDED)		
1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT			1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT		
1	R454B LEAK DETECTOR OPTION FOR RTU3						
1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B						
1	RTU ECONOMIZER - FIXED ENTHALPY CONTROL						

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	YES						
3	PRV-3	YES						
4	EF-1							

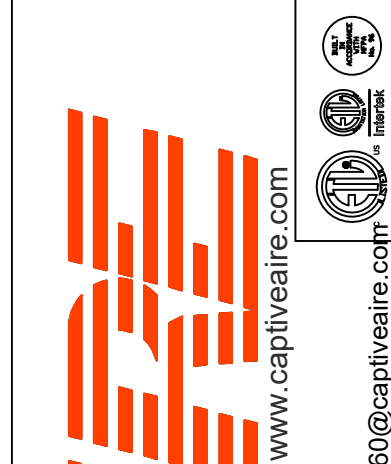
CURB ASSEMBLIES

NO	IN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	PRV-1 RESTROOM	22 LBS	CURB	17.500"W X 17.500"L X 20.000"H
2	# 2	PRV-2	78 LBS	CURB	23.000"W X 23.000"L X 28.000"H VENTED HINGED 16 GAUGE.
3	# 3	PRV-3	78 LBS	CURB	23.000"W X 23.000"L X 28.000"H VENTED 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	IN UNIT	NOT AVERAGED	55	
FAN #5	HMI #2 - SPACE	MANAGER OFFICE	AVERAGED	56	
FAN #6	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55	
FAN #6	HMI #2 - SPACE	MANAGER OFFICE	AVERAGED	56	

REVISIONS

DESCRIPTION	DATE

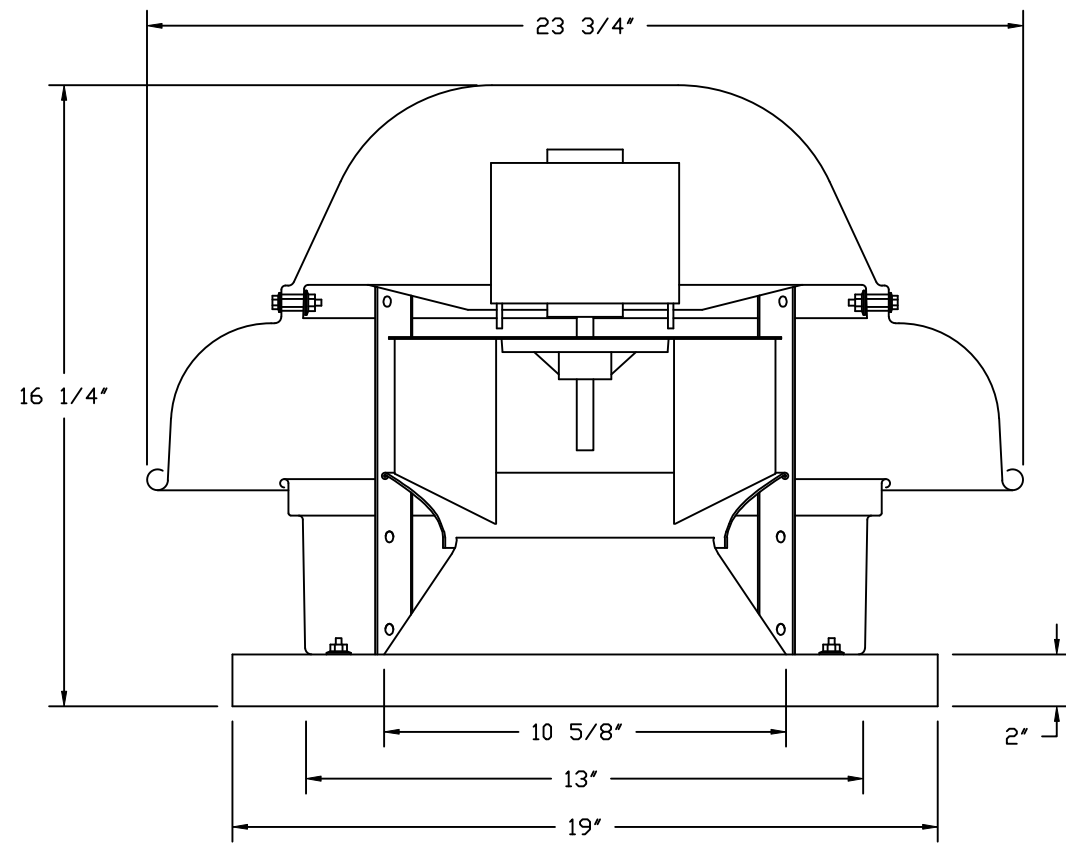


CULVERS BUSHNELL FL
 BUSHNELL, FL, 33513

DATE: 4/24/2025
 DWG.#: 7491106
 DRAWN BY: studdy jr
 SCALE: 1/2" = 1'-0"
 MASTER DRAWING

SHEET NO.
 4

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

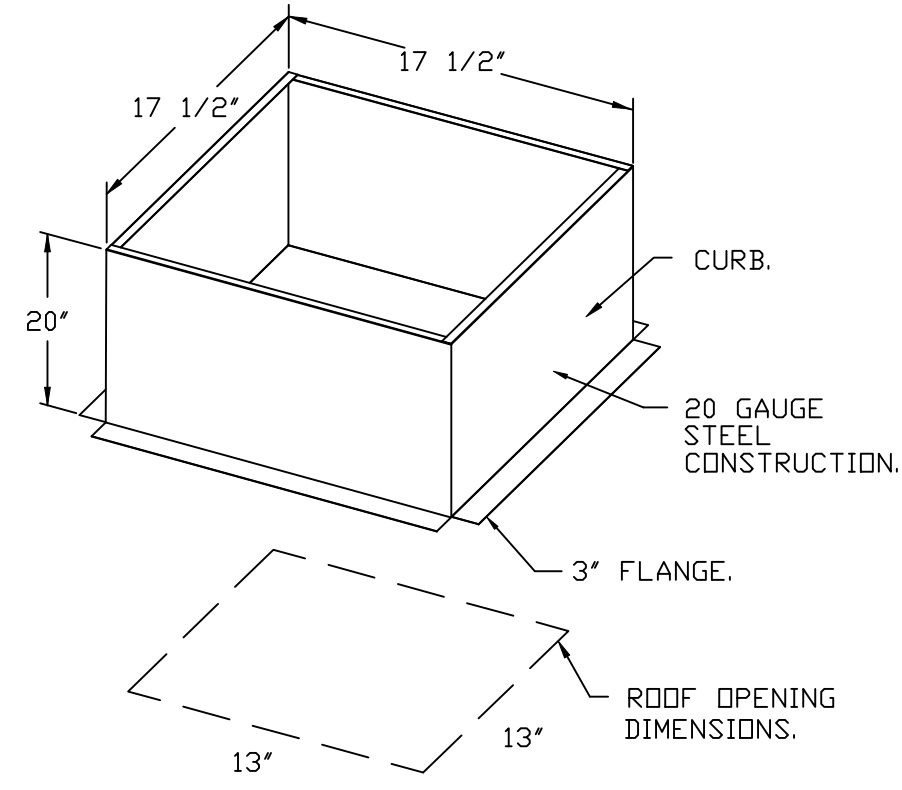


FEATURES:

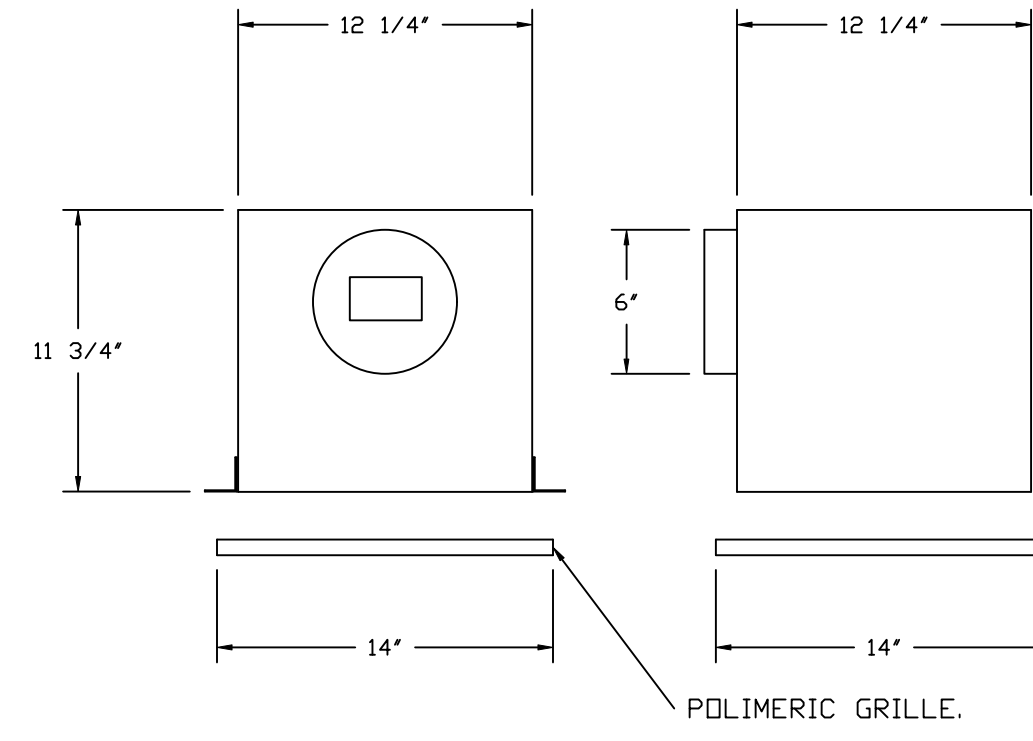
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS:

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



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

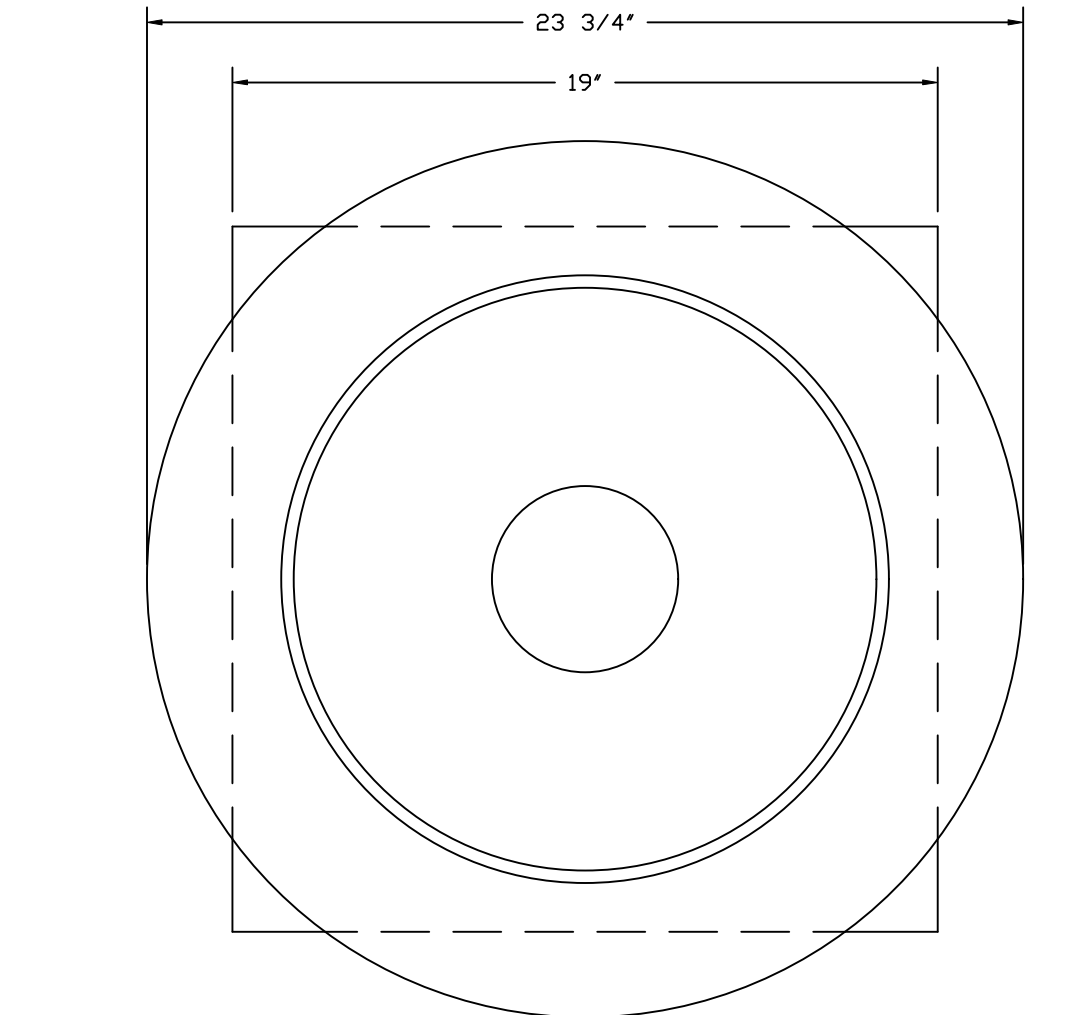


FEATURES:

- 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.

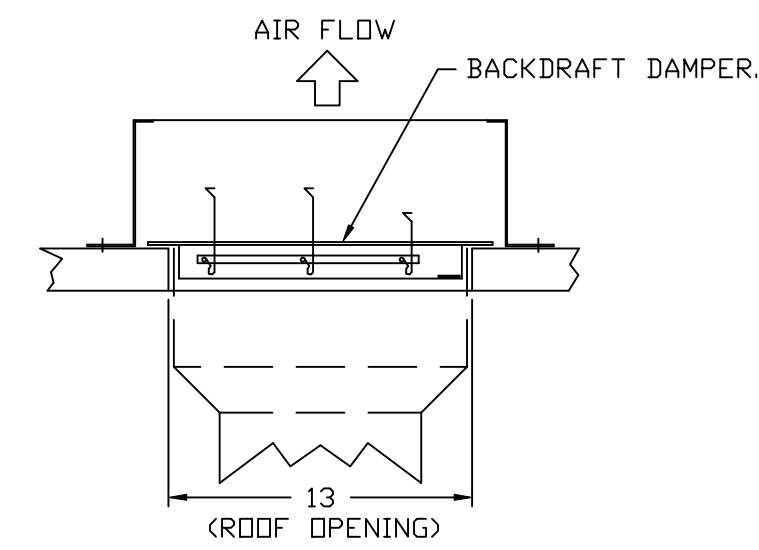
OPTIONS:

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

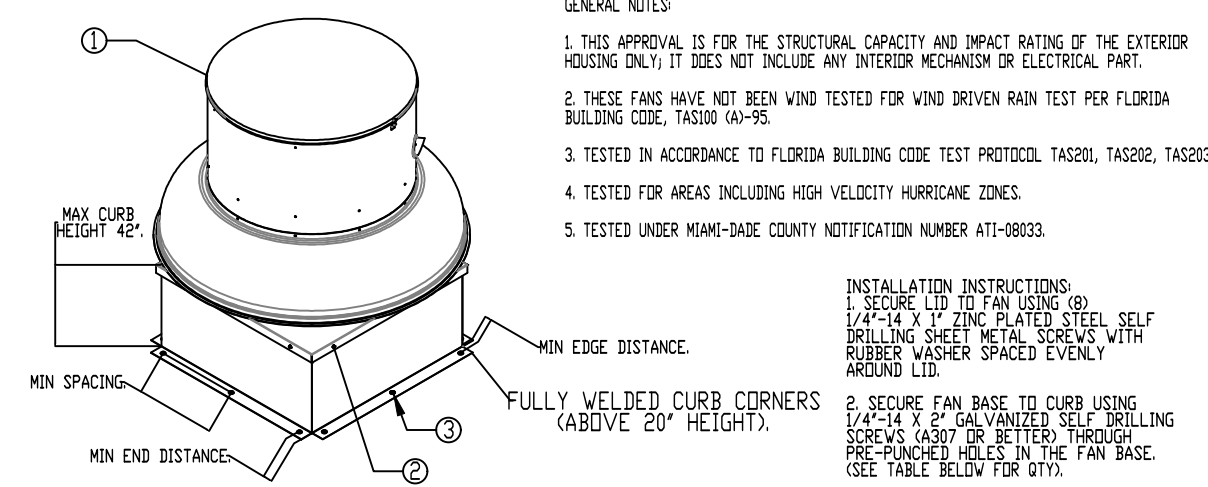


TOP VIEW

BACKDRAFT DAMPER INSTALLATION



MIAMI-DADE NDA1 ALUMINUM DOWN-BLAST FANS



GENERAL NOTES:

1. 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.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TASC09 (44-95).
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL TASC01, TASC02, TASC03.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER AT1-08033.

- INSTALLATION INSTRUCTIONS:
1. SECURE LID TO FAN USING 60 1/4" X 1/4" ZINC PLATED STEEL SELF DRILLING SCREWS. METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.
 2. SECURE FAN BASE TO CURB USING 1/4" X 5/8" GALVANIZED SELF DRILLING SCREWS. SCREWS MUST BE DRILLED THROUGH PRE-DRILLED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).
 3. SECURE CURB TO WOOD OR MCM 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 = 20 GA. STEEL
ANDY 20" HIGH & 30 GA. STEEL

DESIGN PRESSURE: +150 / -150 P.S.F.
LARGE MISSILE IMPACT RESISTANT.

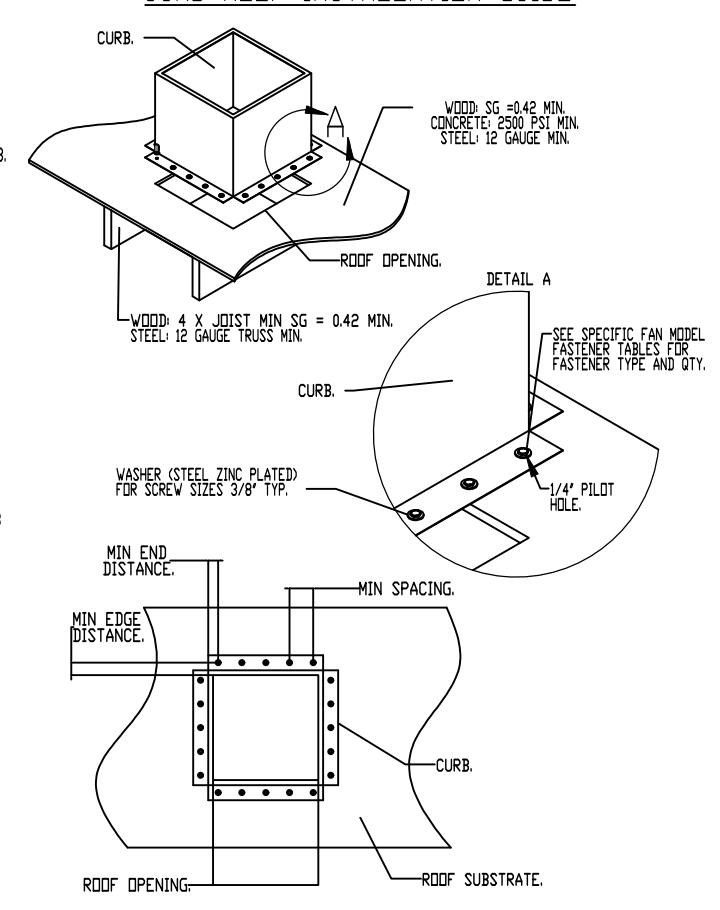
INSTALLATION FASTENER TYPES

	FAN TO CURB	WOOD (S0 = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2500 PSI MIN. CRACKED CONCRETE)
FASTENER	5/16" X 2" SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER)	3/8" DIA. ZINC PLATED 1/4" BOLT	1/4" X 1/4" DRILL-FLEX SELF DRILLING SCREW	3/8" DIA. SS HEX T. KWIK BOLT T.Z. EXPANSION ANCHOR
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	2"
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	3"
MINIMUM SPACING	N/A	1-1/2"	3/4"	5-1/2"

INSTALLATION FASTENER QTY

FAN MODEL	CURB TO FAN (WOOD)		CURB TO FAN (STEEL)		CURB TO FAN (CONCRETE)	
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
DR12	3	12	3	12	3	12

MIAMI-DADE COUNTY - CURB ROOF INSTALLATION GUIDE



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DESCRIPTION	DATE

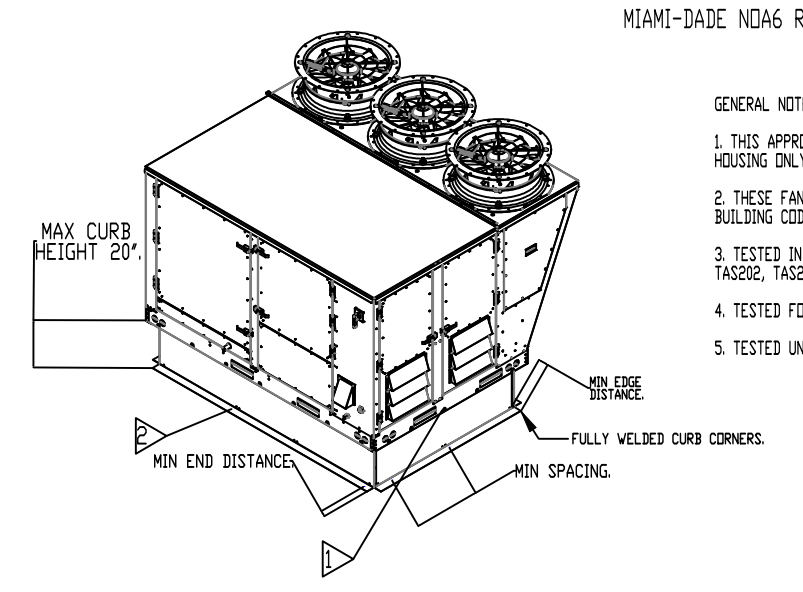
CAPTIVE AIR

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

CULVERS BUSHNELL FL
BUSHNELL, FL, 33513

DATE: 4/24/2025
DWG.#: 7491106
DRAWN BY: studdy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 5



MIAMI-DADE ND46 RTU

- GENERAL NOTES
1. 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.
 2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TASSO 161-95.
 3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL T42201, T42202, T42203.
 4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
 5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER AT1-15071.

- INSTALLATION INSTRUCTIONS
1. SECURE CURB BASE TO CURB USING 5/16" X 1 1/2" ZINC PLATED STEEL BOLTS. DO NOT USE ANY OTHER TYPE OF BOLTS. THROUGH THE HOLES IN THE SUPPORT RAILS, BOLTS SHALL BE INSTALLED FOR FASTENING ONLY.
 2. SECURE CURB TO ROOF BY PULLING 1/4" DIA. PULLEY WELLS IN THE CURB PLASTER AT LOCATIONS SHOWN IN THE DRAWING. SET TABLE BELOW FOR FASTENER TYPE, SIZE, AND MINIMUM FASTENER QTY.

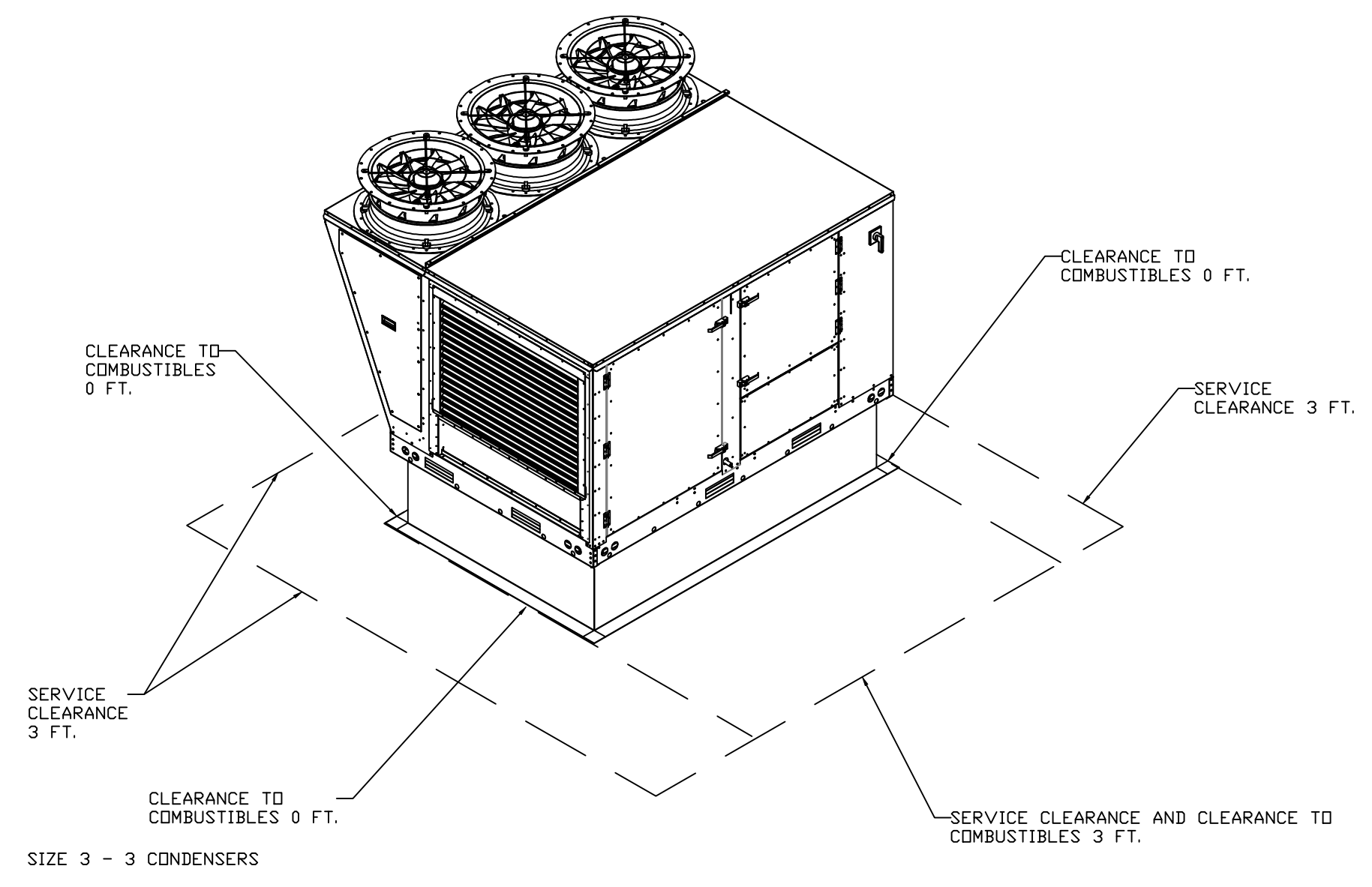
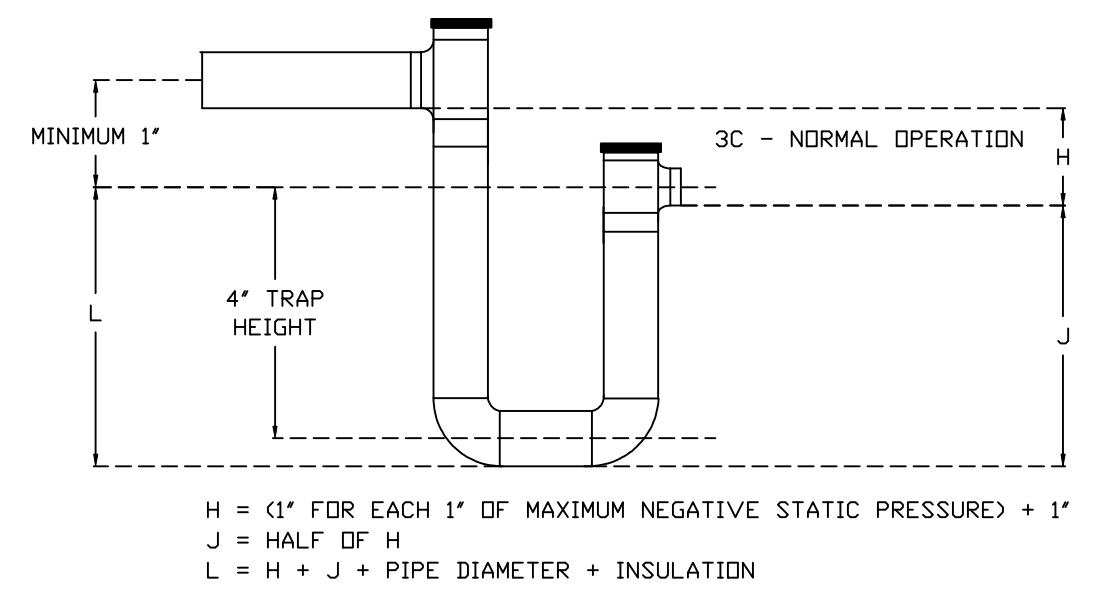
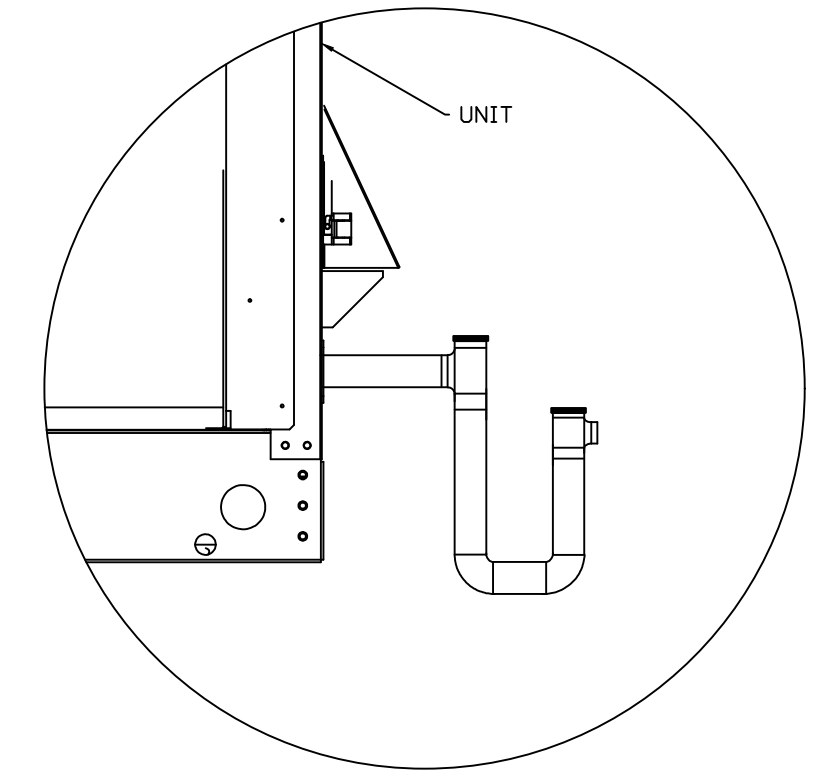
CURB MATERIAL:
20" HIGH & LESS = 18 GA. STEEL.

DESIGN PRESSURE: +1500 / -1500 PSF.
LARGE MISSILE IMPACT RESISTANT.

FASTENER	INSTALLATION FASTENER TYPES			
	FAN TO CURB	WOOD (80 = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2400 PSI MIN. CRACKED CONCRETE)
FASTENER	5/16" X 2" SELF DRILLING SCREW (ELCO DRILL-FLEX OR BETTER)	3/8" DIA. ZINC PLATED LAG BOLT	1/4" X 1/4" DRILL-FLEX SELF DRILLING SCREW	3/8" DIA. SS WILTI KWIK BOLT TZ EXPANSION ANCHOR
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	2"
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	N/A	4-1/2"	4-1/2"	4-1/2"
MINIMUM SPACING	N/A	1-1/2"	6"	6"

FAN MODEL	INSTALLATION FASTENER QTY											
	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

RTU CONDENSATE DRAIN TRAP DETAIL



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CULVERS BUSHNELL FL
BUSHNELL, FL, 33513

DATE: 4/24/2025

DWG.#:
7491106

DRAWN BY: studdy jr

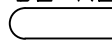
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3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
6

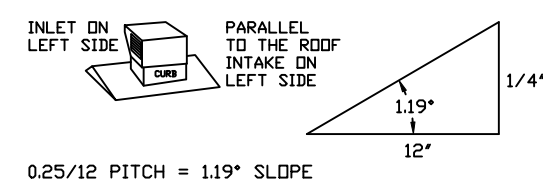
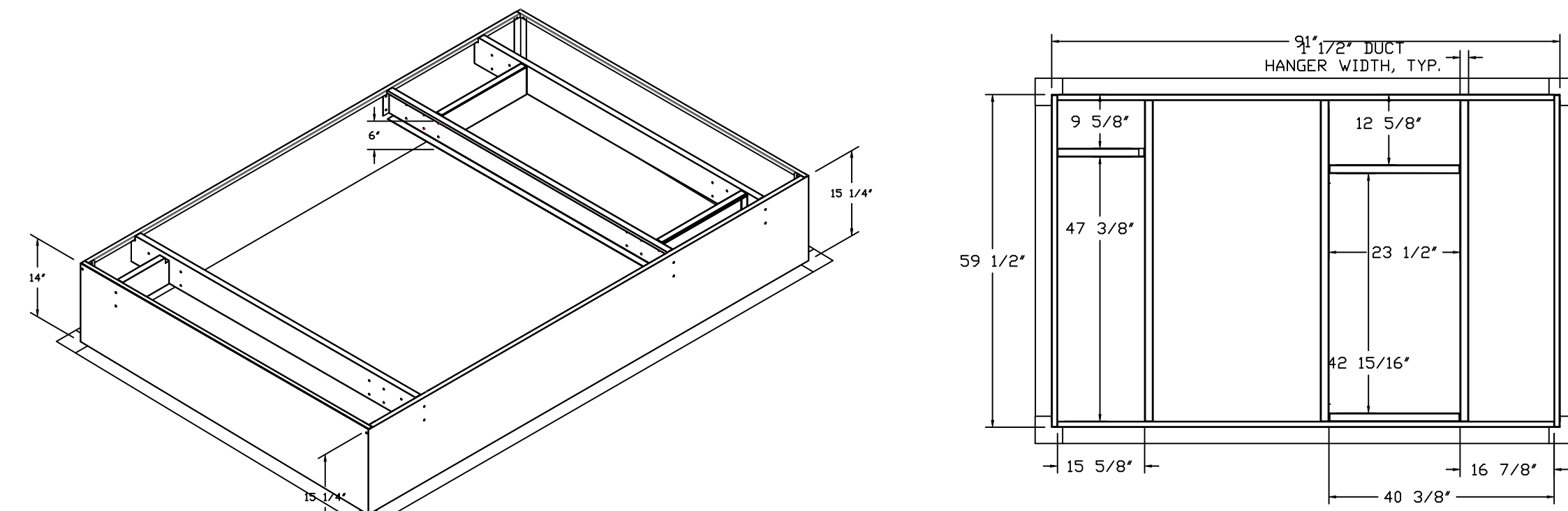
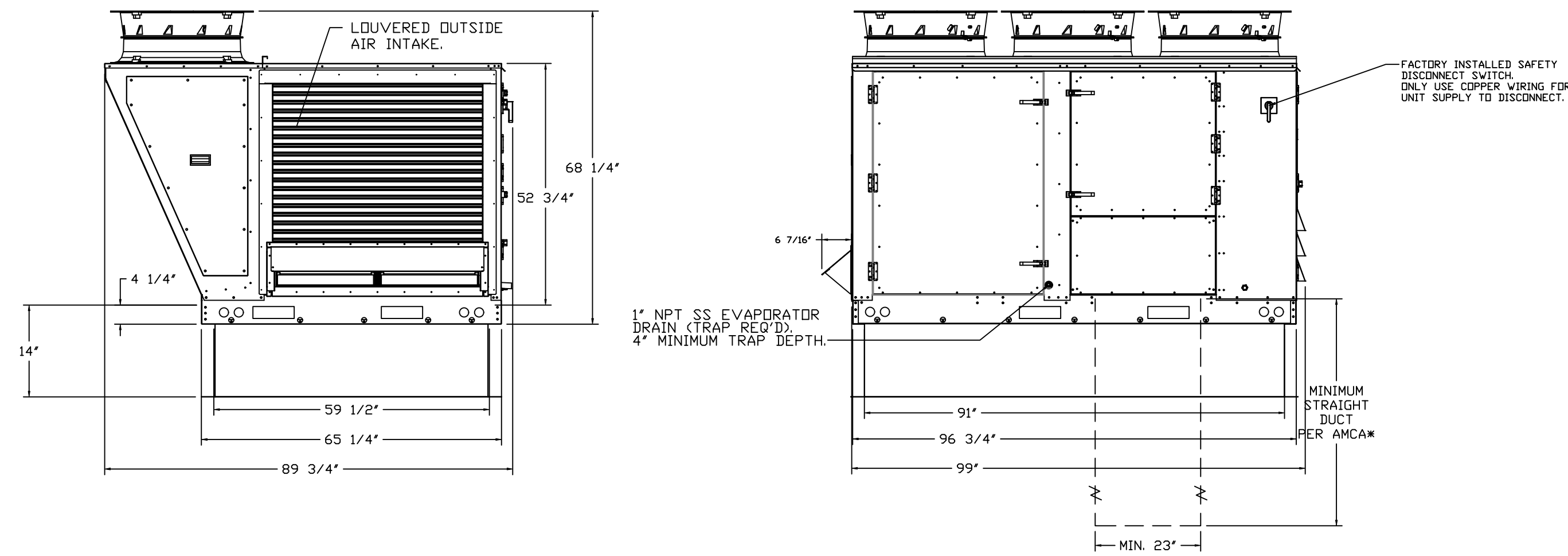
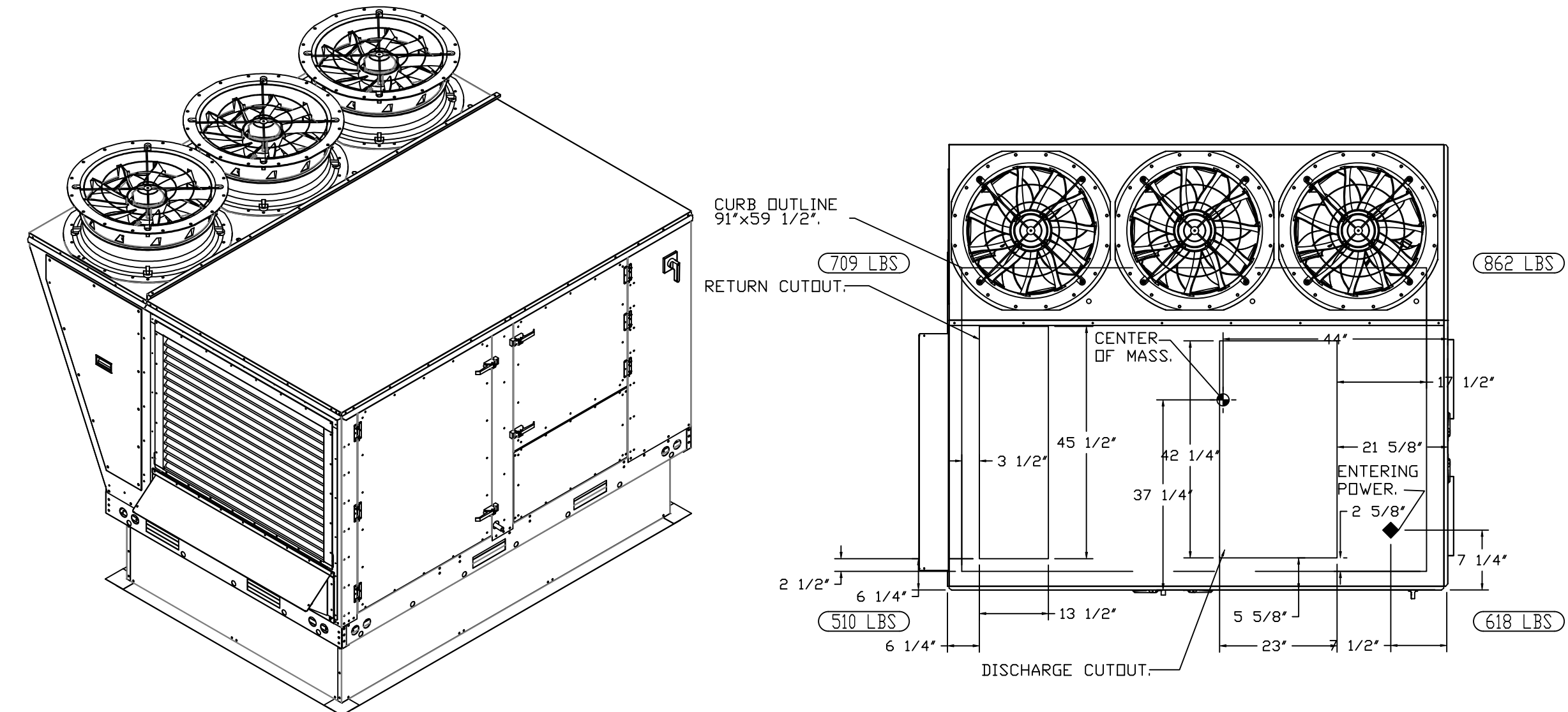
FAN #5 CAS-HVAC3-E.452-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

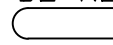
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*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 23" x 39".



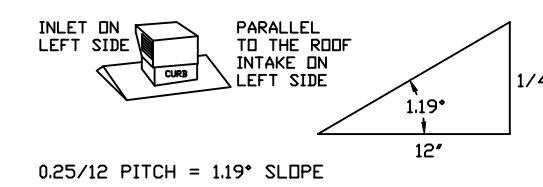
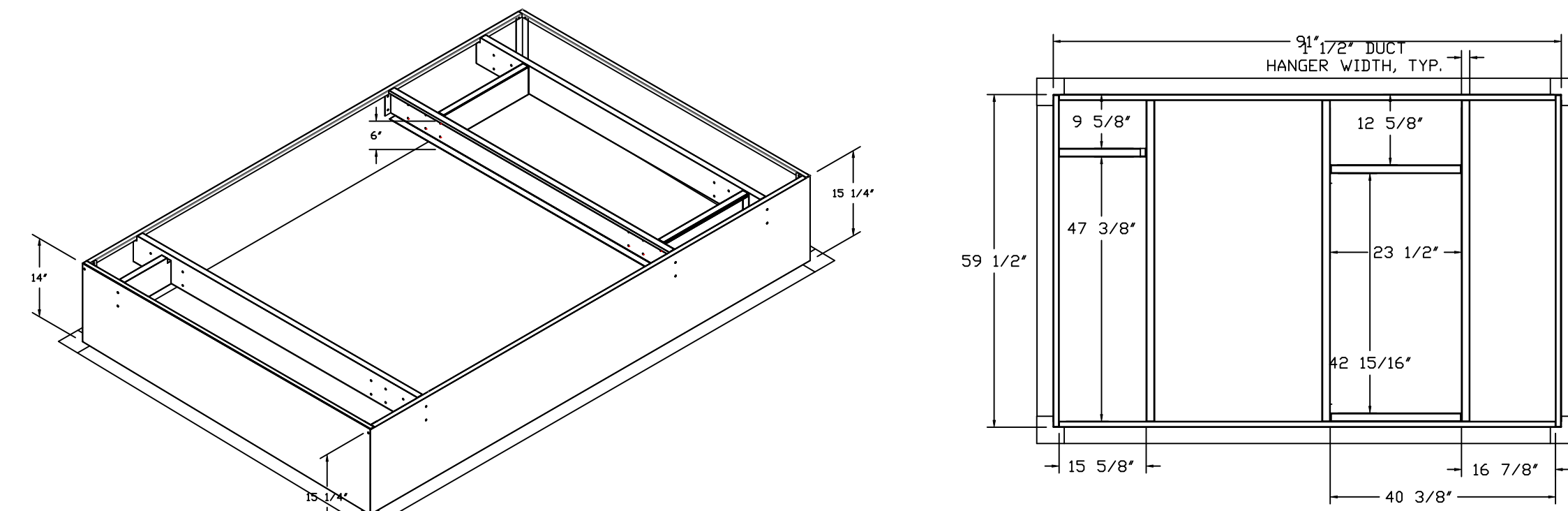
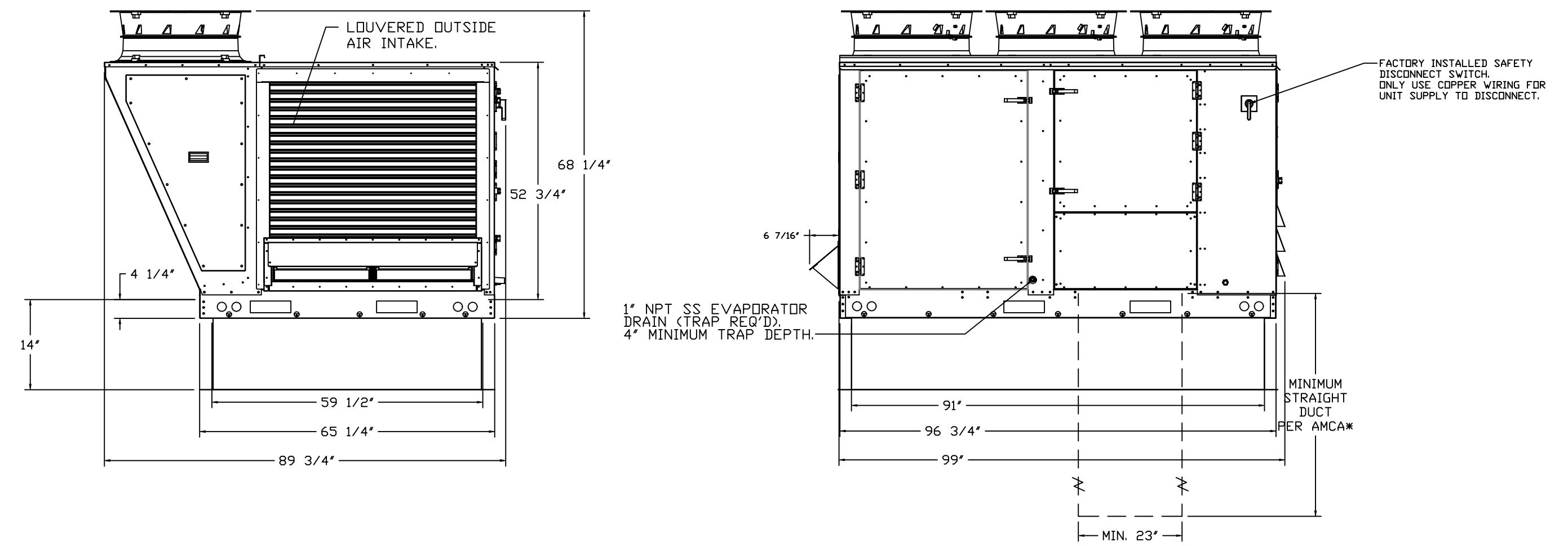
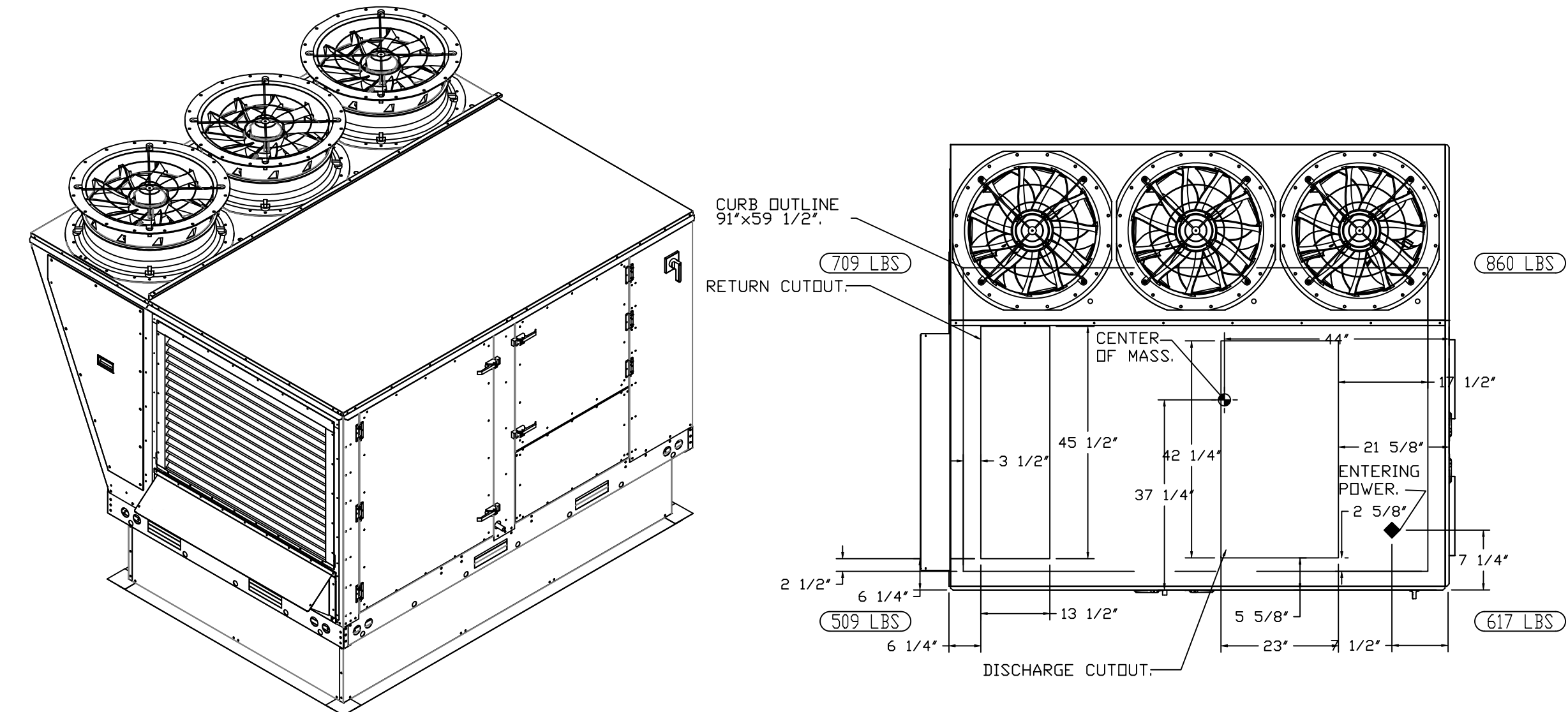
FAN #6 CAS-HVAC3-E.302-24MF-20T - HEATER (RTU-2 KITCHEN)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

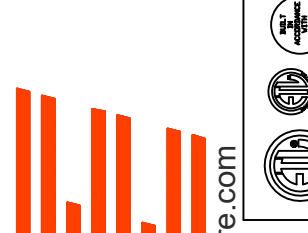
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*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 23" x 39".



REVISIONS

DESCRIPTION	DATE



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CULVERS BUSHNELL FL
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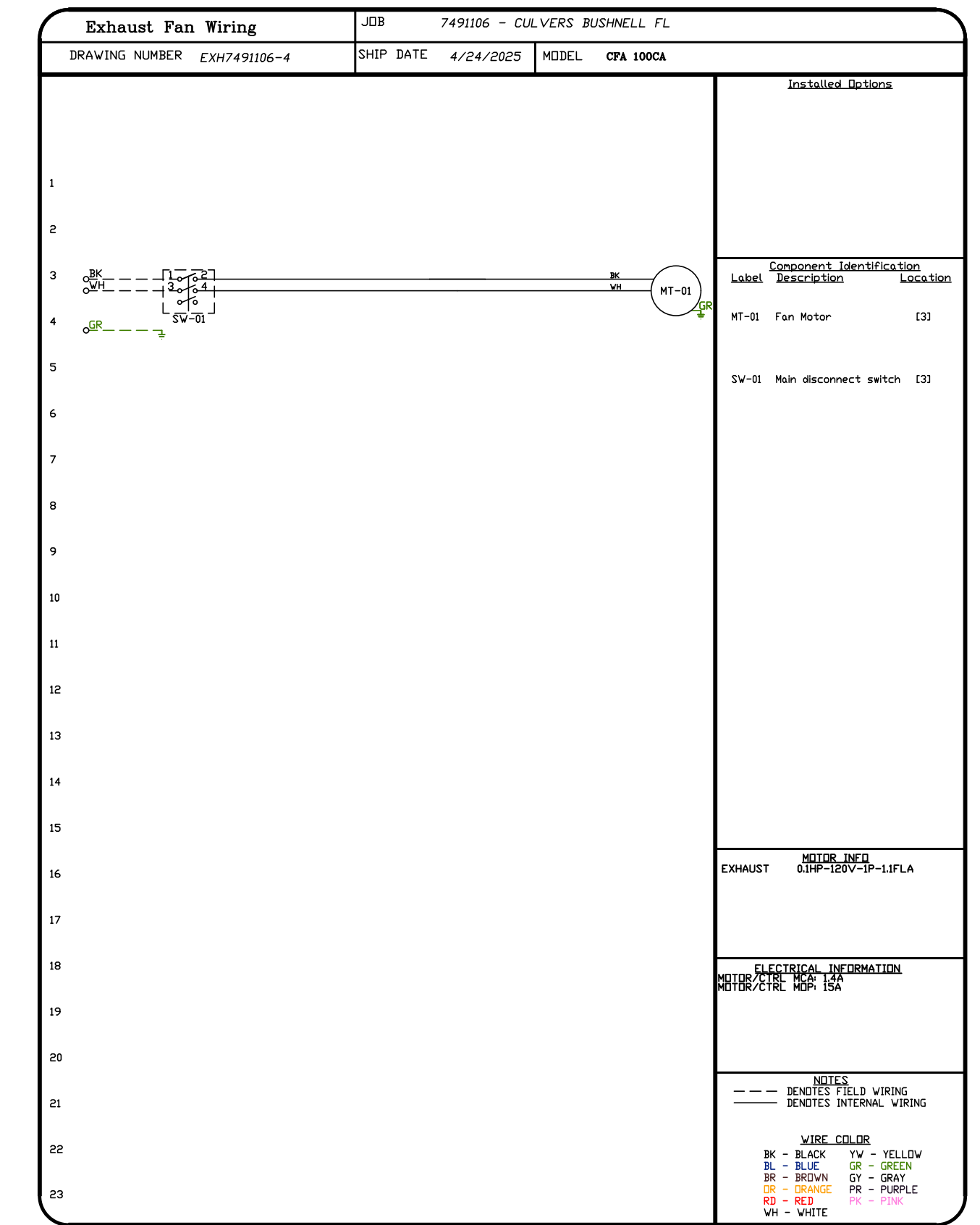
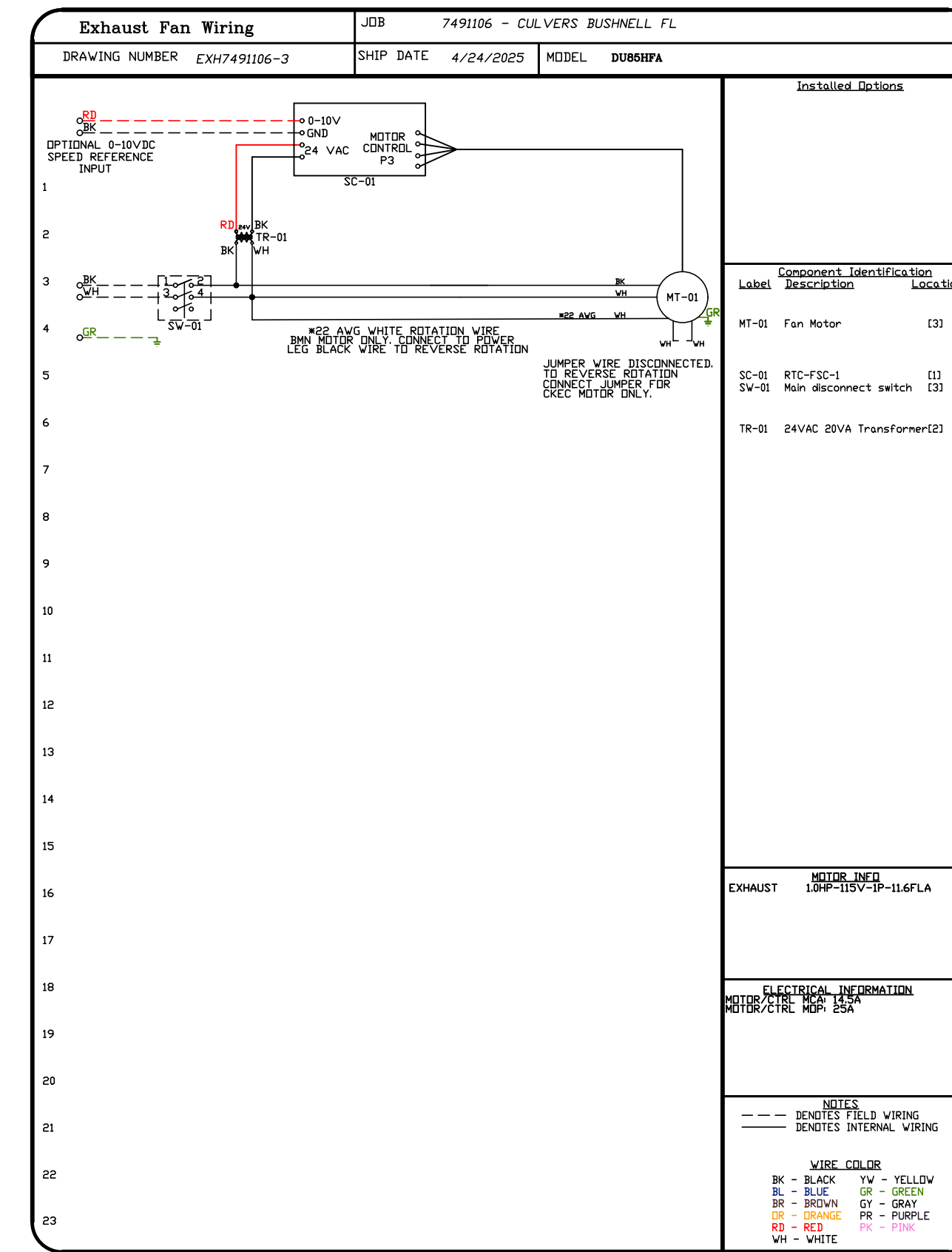
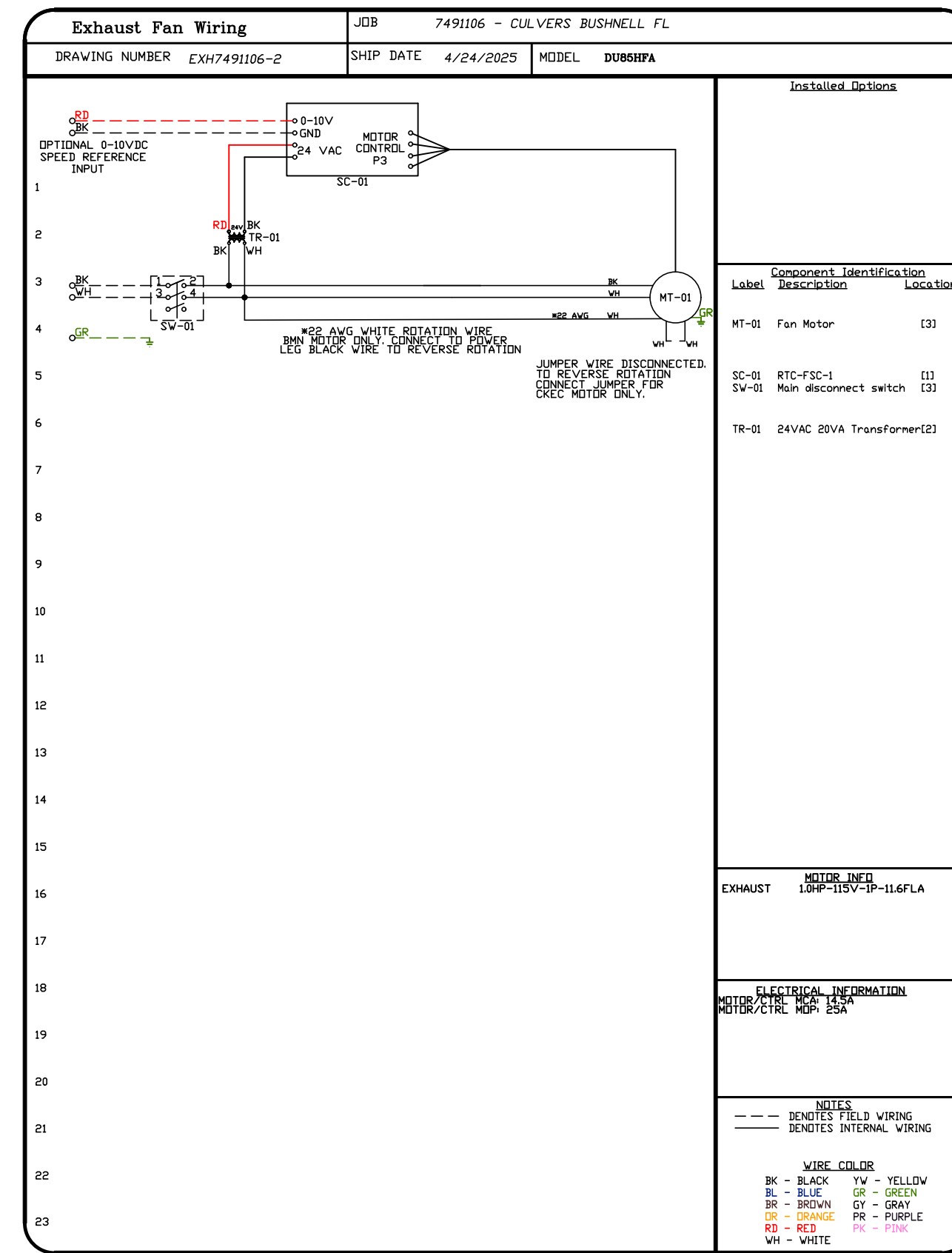
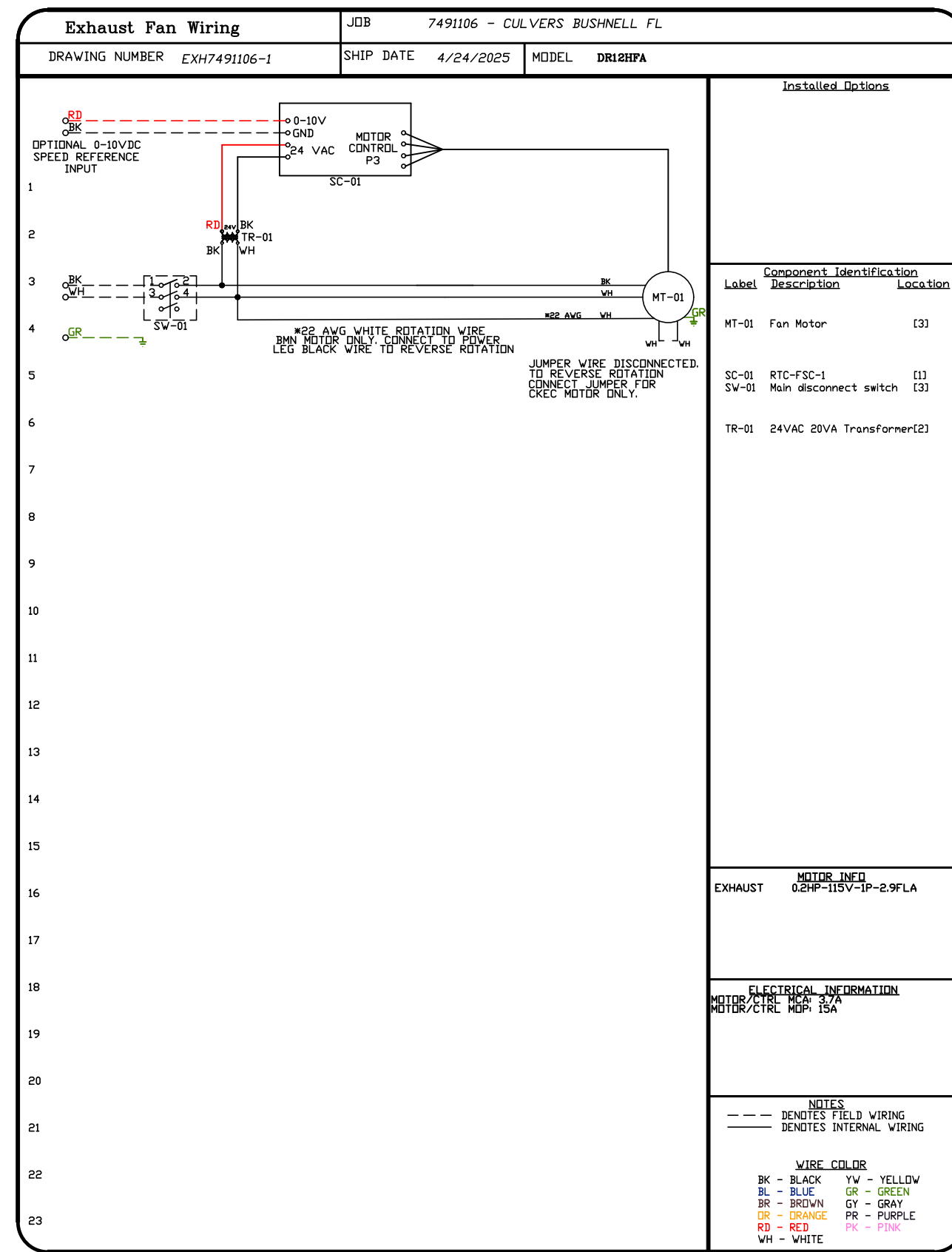
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DRAWN BY: sluddy jr

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

MASTER DRAWING

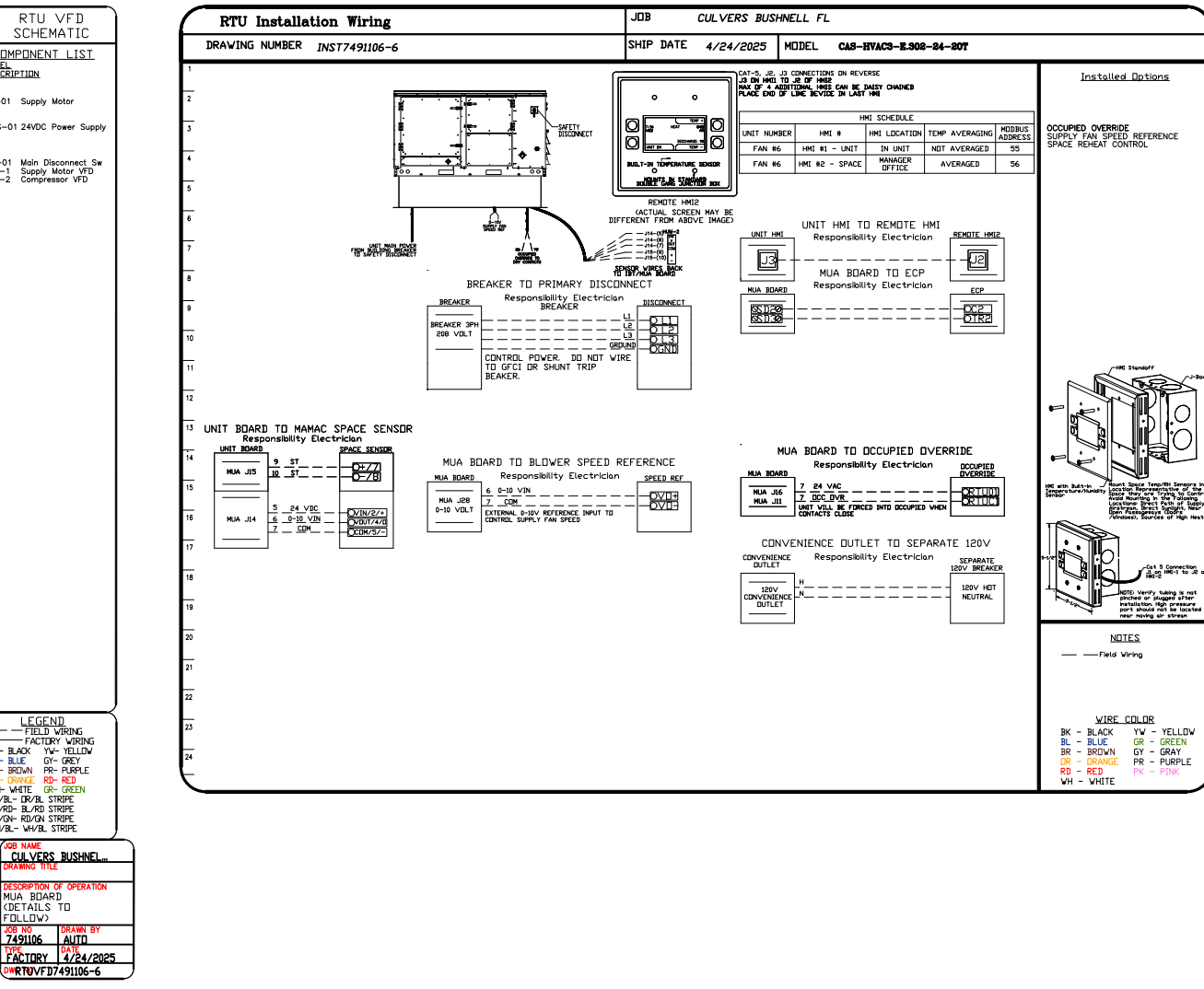
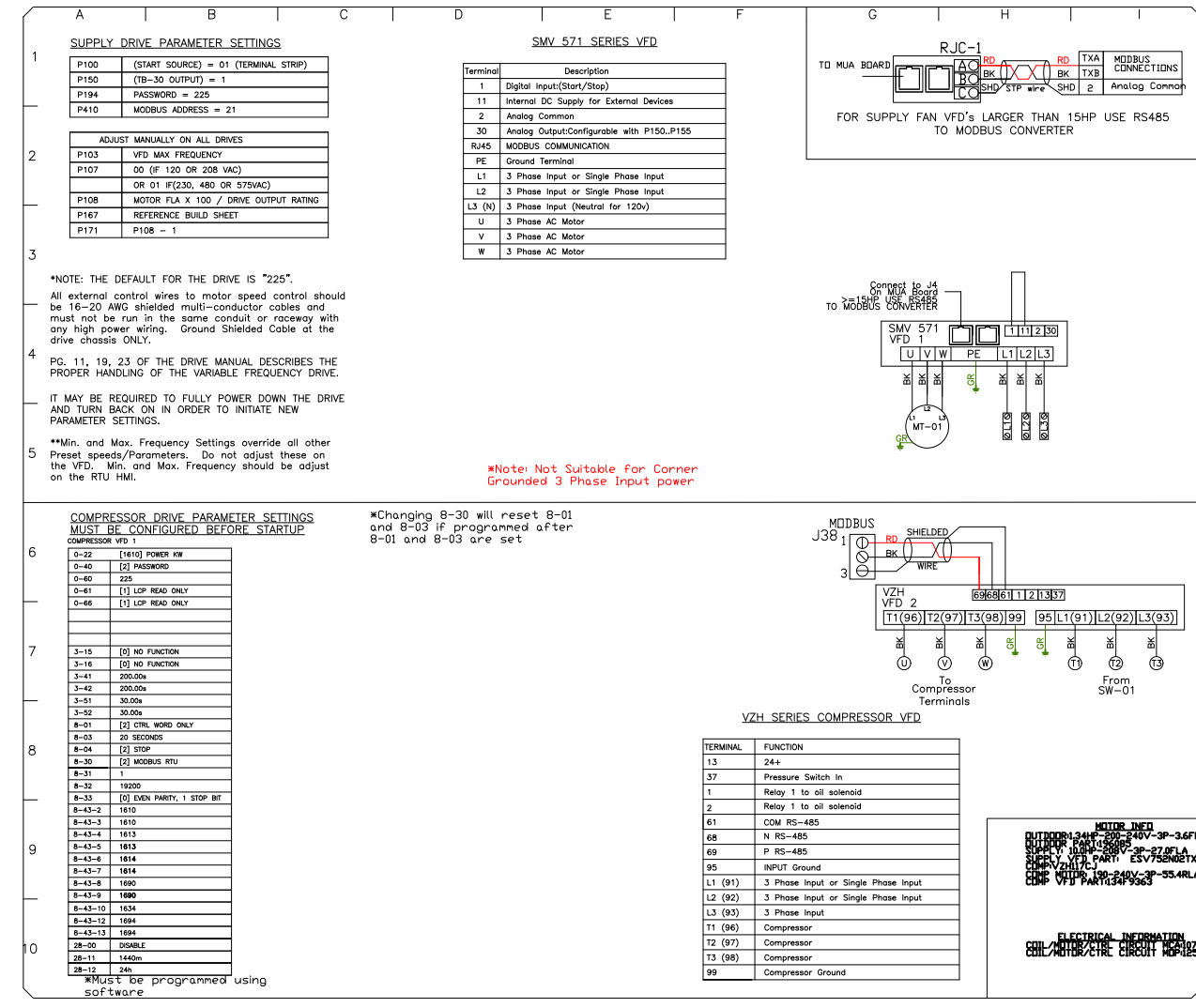
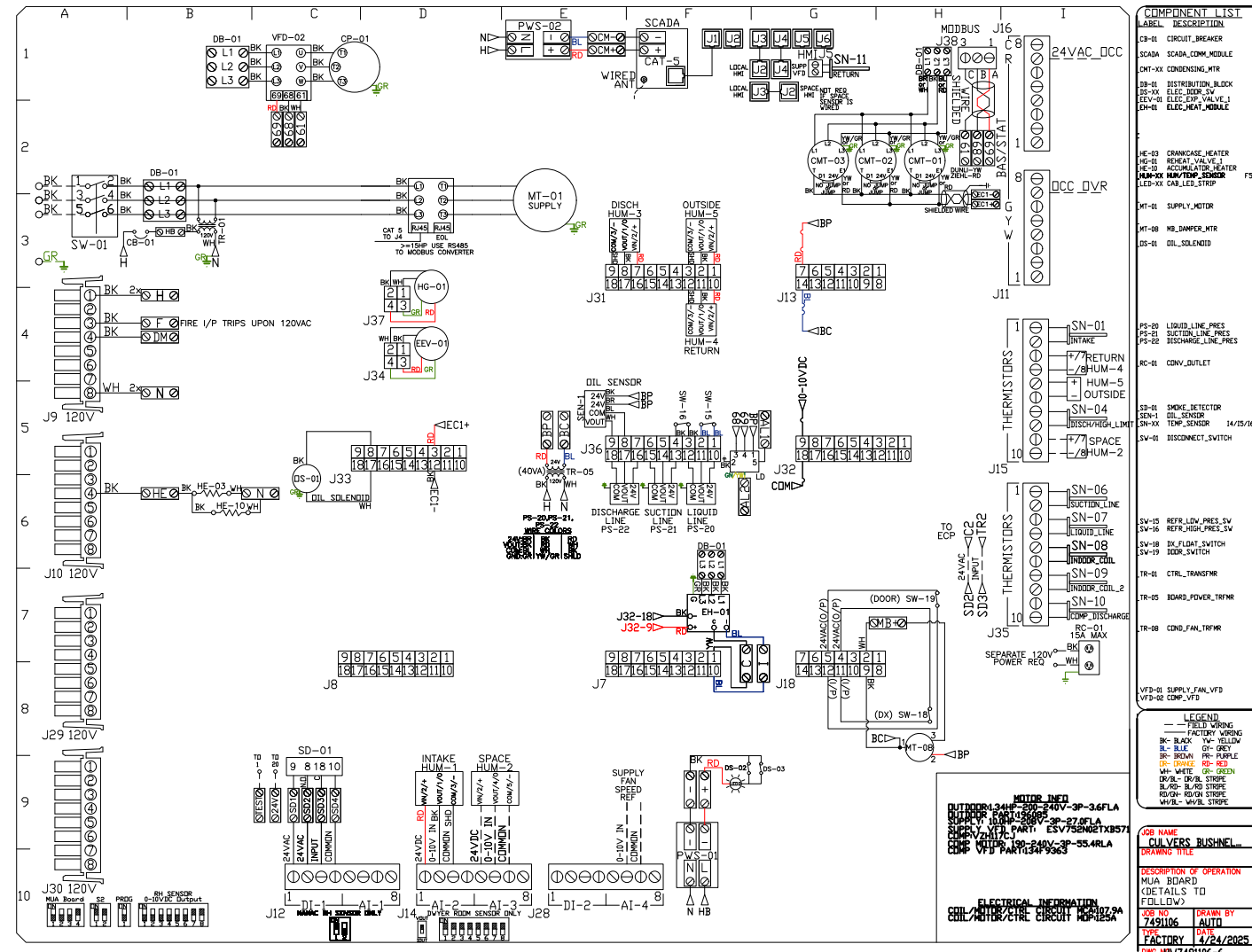
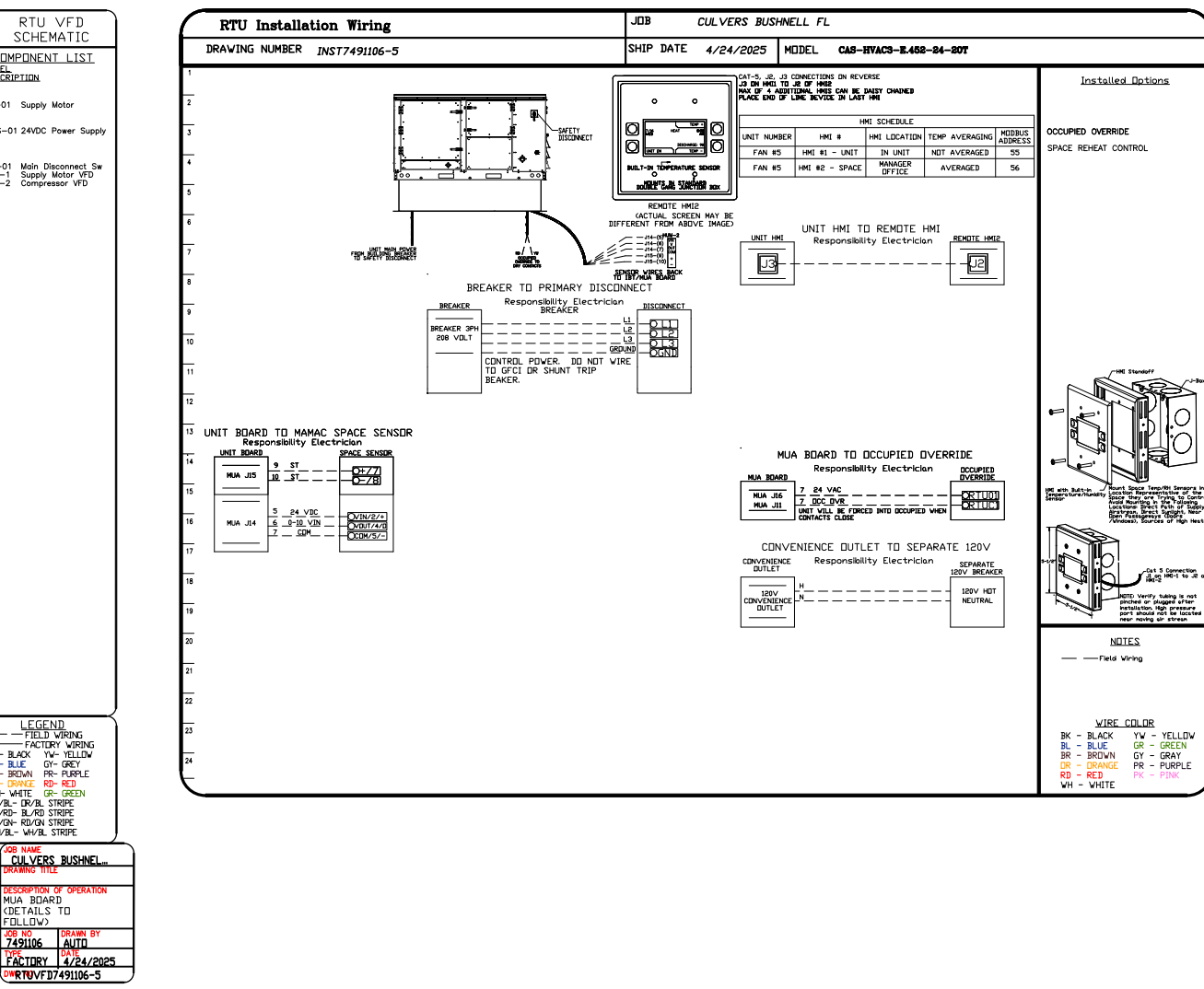
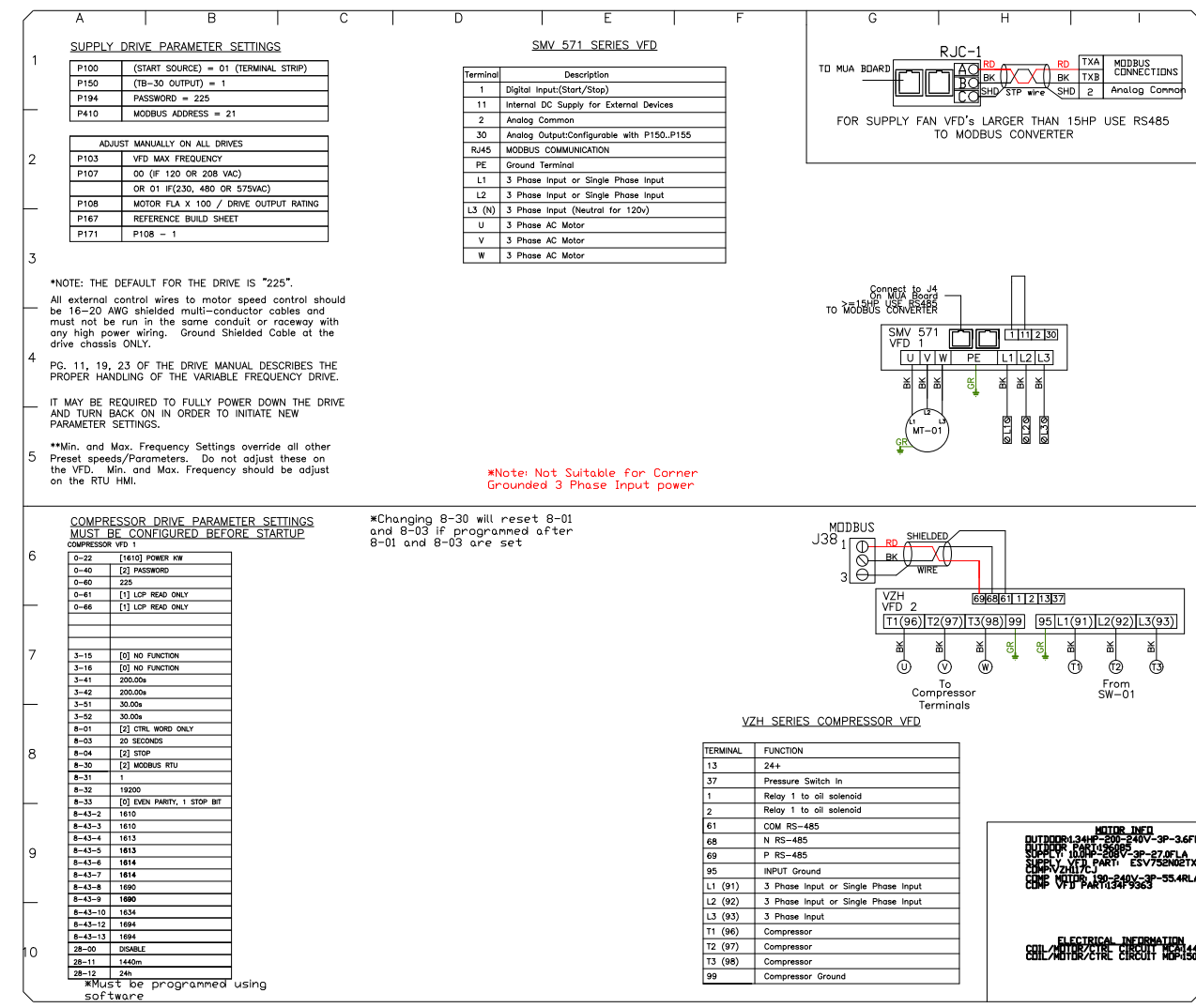
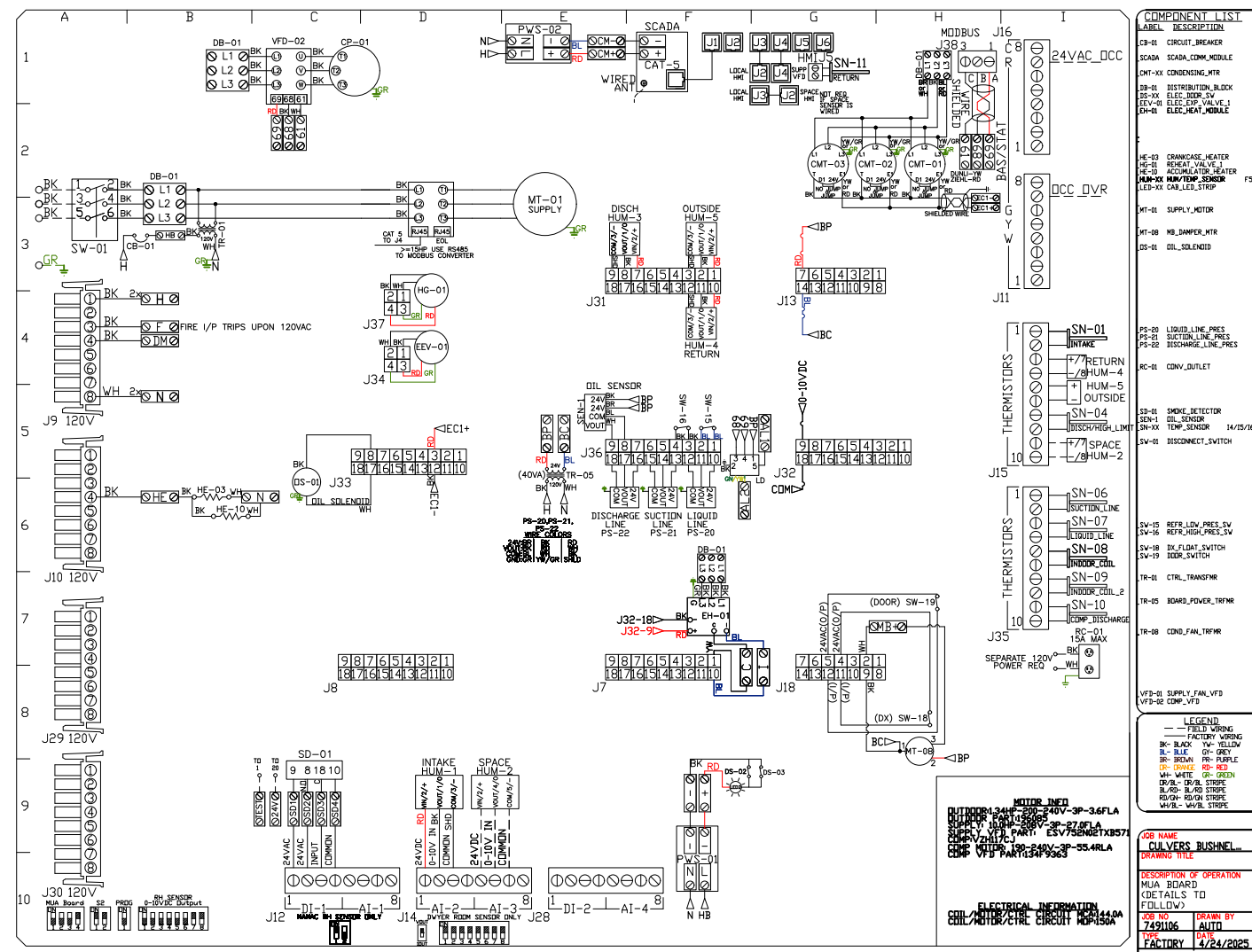
SHEET NO. 7



REVISIONS	
DESCRIPTION	DATE

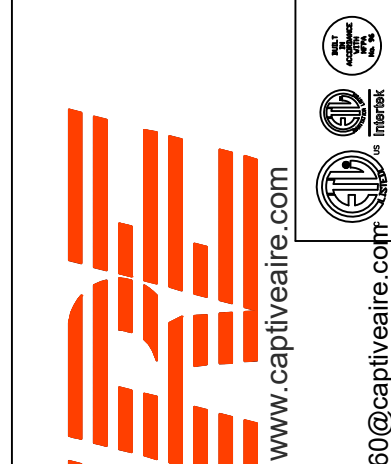
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CULVERS BUSHNELL FL BUSHNELL, FL, 33513
DATE: 4/24/2025
DWG.#: 7491106
DRAWN BY: studdy jr
SCALE: 3/4" = 1'-0"
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SHEET NO. 8



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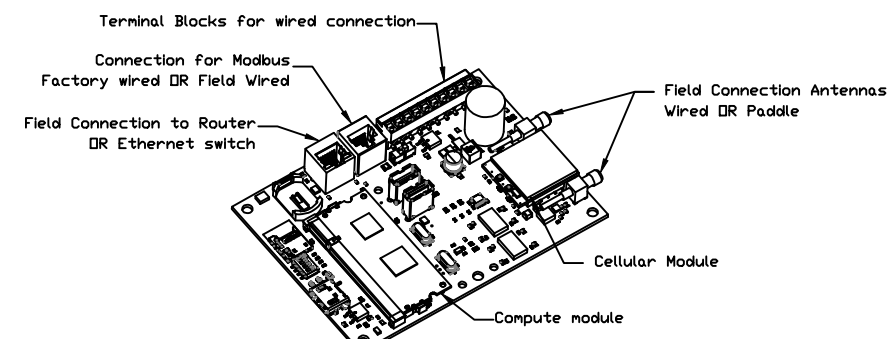
CULVERS BUSHNELL FL
BUSHNELL, FL, 33513

DATE: 4/24/2025
DWG.#: 7491106
DRAWN BY: studdy jr
SCALE: 1/2" = 1'-0"
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SHEET NO.
9

ELECTRICAL PACKAGE - JOB#7491106

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 1 FAN	SMART CONTROLS THERMSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	PRV-2	EXHAUST	1	1.000	115	11.6	RTU-2 Kitchen	SUPPLY	3	10.000	208	27.0

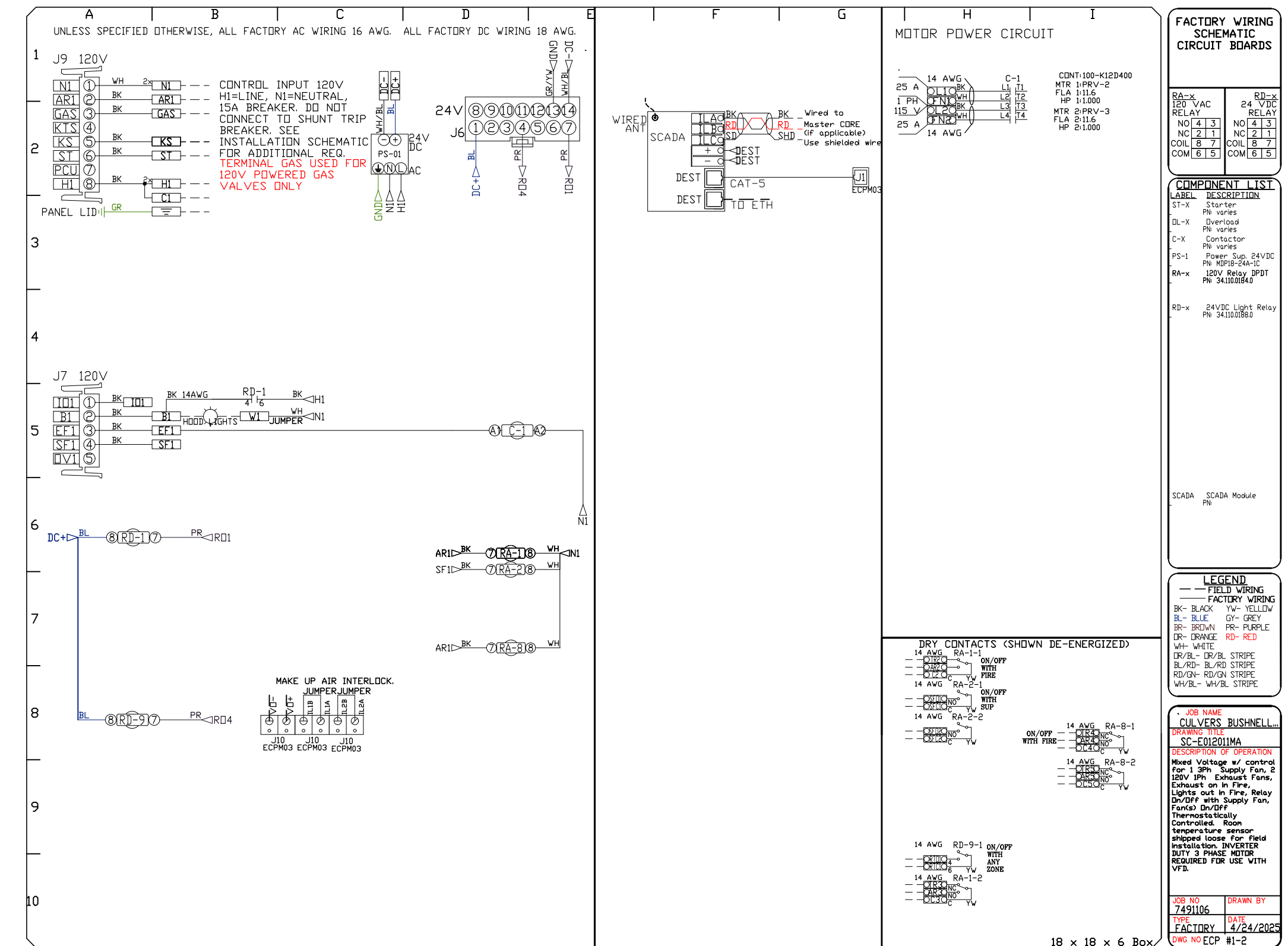
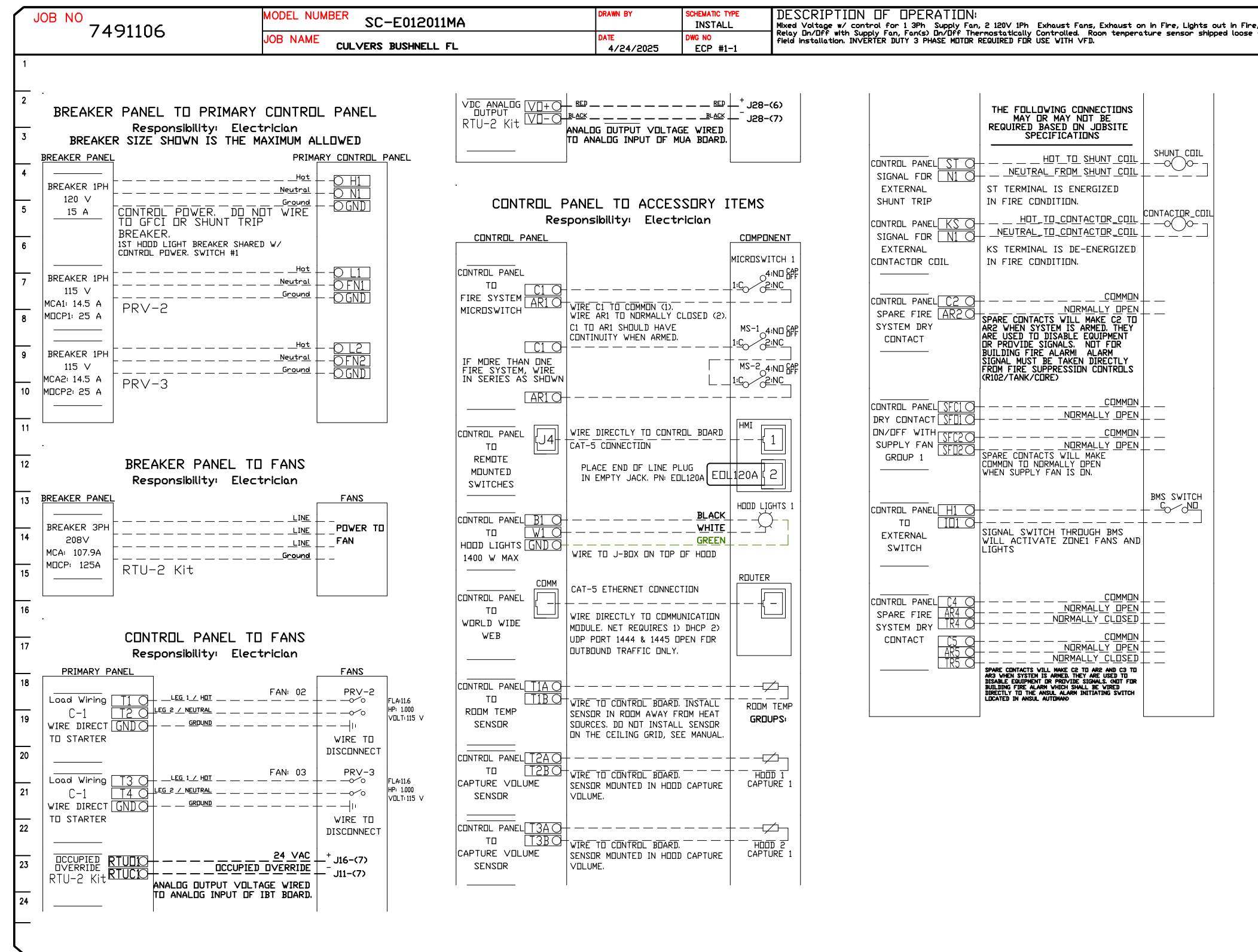


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- 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 Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fan Status	MONITOR
Fan Status	MONITOR	Flow Condition	MONITOR
PCU Filter Clog Percentages	MONITOR	CORE Fire System	MONITOR
Fire Condition	MONITOR	Building Pressures	MONITOR
CORE Fire System	MONITOR & CONTROL	Pans Buttons(s)	MONITOR & CONTROL
Building Pressures	MONITOR	Wash Button	MONITOR & CONTROL
Prep Time Button	MONITOR & CONTROL		
Pans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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NO.	DESCRIPTION	DATE
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2		
3		
4		
5		

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 BUSHNELL, FL, 33513

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 DRAWN BY: study jr
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SHEET NO. 10

DUCTWORK #1 PARTS - JOB#7491106 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

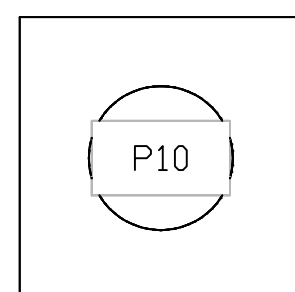
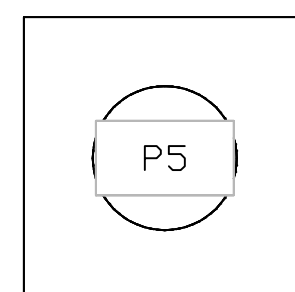
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

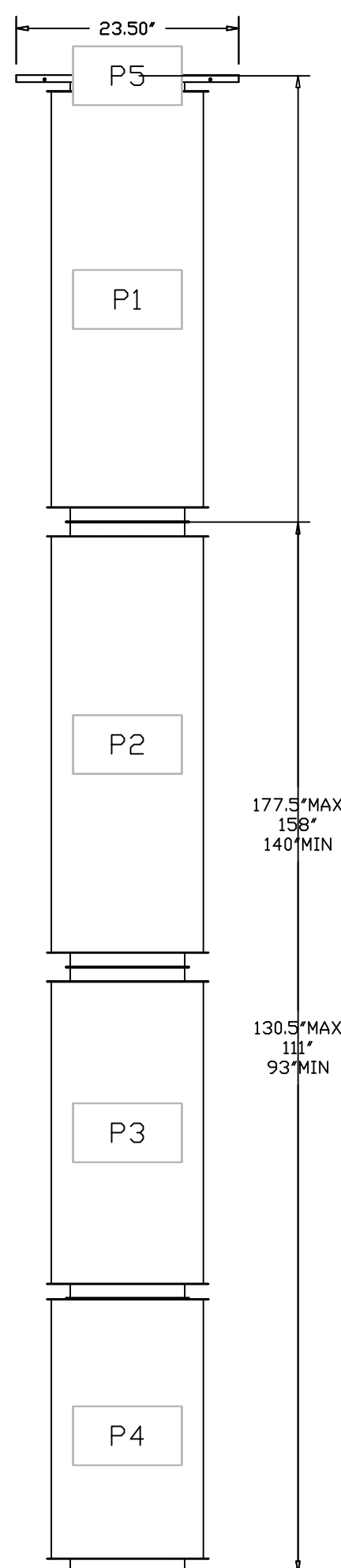
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

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

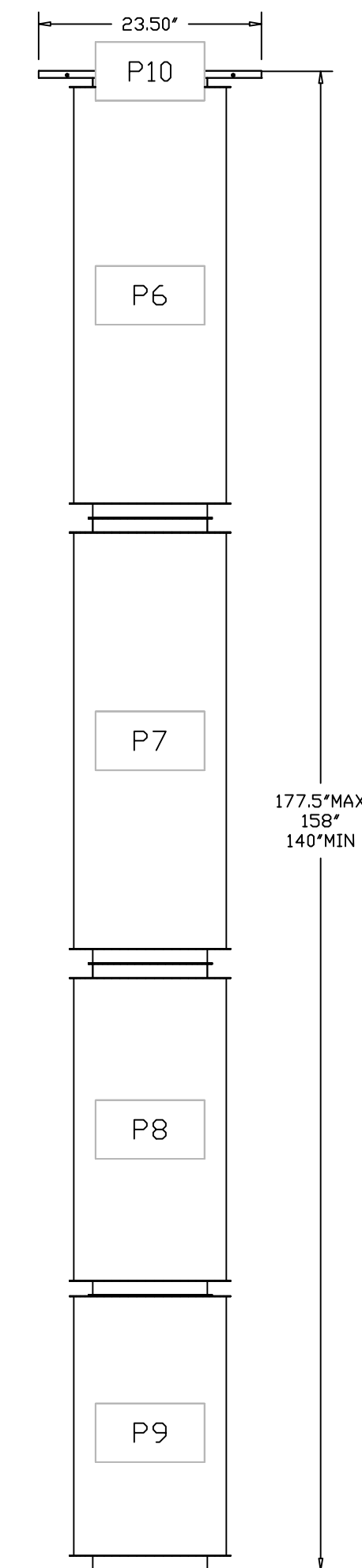
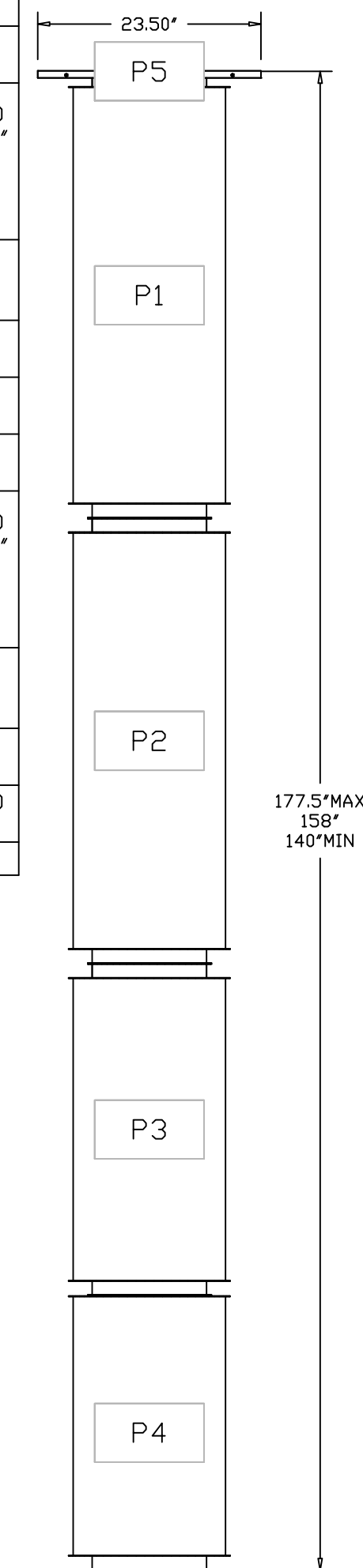
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



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CULVERS BUSHNELL FL

 BUSHNELL, FL, 33513

DATE: 4/24/2025

 DWG #: 7491106

 DRAWN BY: studdy jr

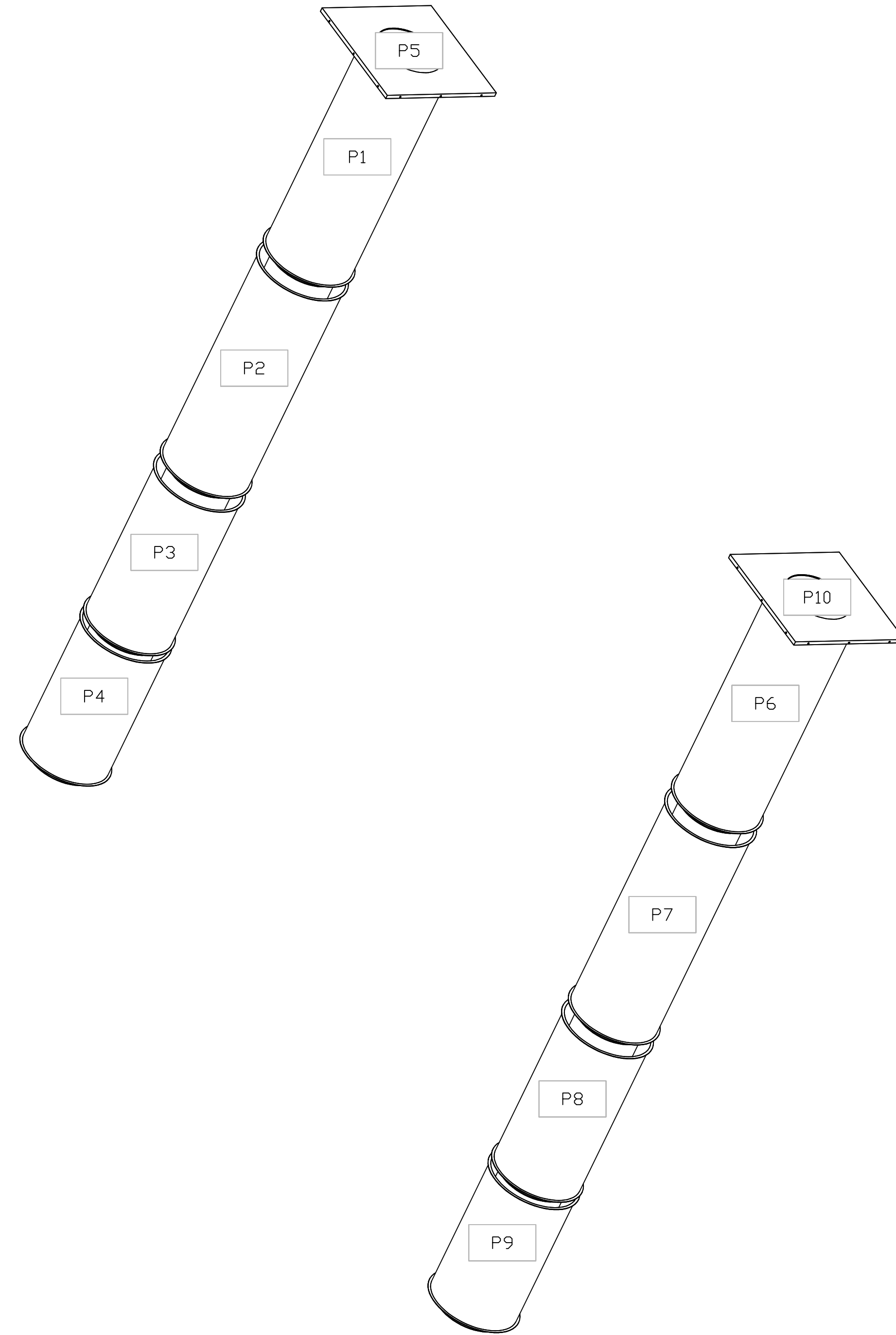
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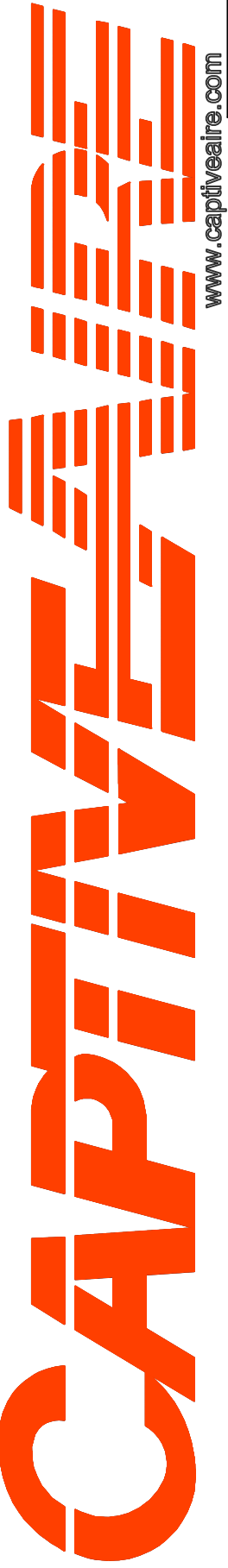
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 11

DUCTWORK #1 SE VIEW
GREASE DUCT



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DATE: 4/24/2025

DWG.#:
7491106

DRAWN BY: sluddy jr

SCALE:
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12

SYSTEM DESIGN VERIFICATION (SDV)

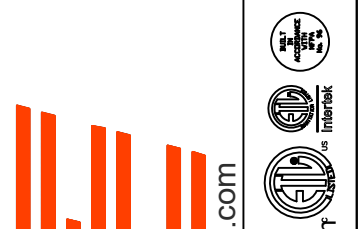
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

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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