

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

HOOD INFORMATION - JOB#6938827

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	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
2	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

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	FRYER HOOD	CAPTRATE SOLO FILTER	5	16'	16'	85% SEE FILTER SPEC	3	L55 SERIES E26	NO						NO	282 LBS
2	GRIDDLE HOOD	CAPTRATE SOLO FILTER	4	16'	16'	85% SEE FILTER SPEC	3	L55 SERIES E26	NO						NO	235 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	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.
2	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.

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.

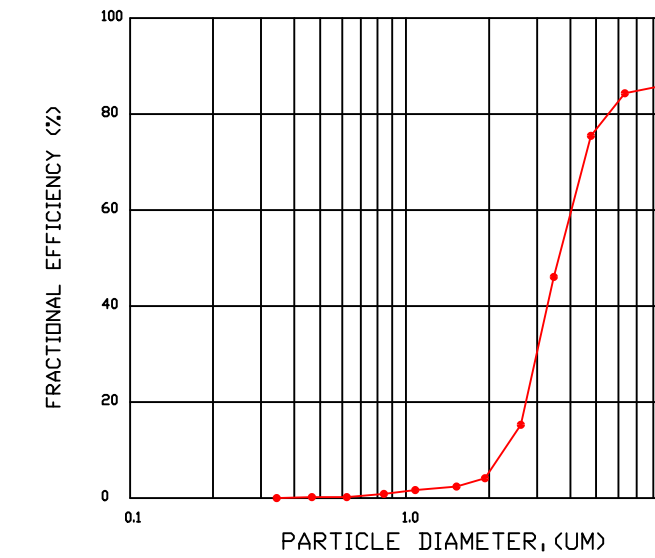
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

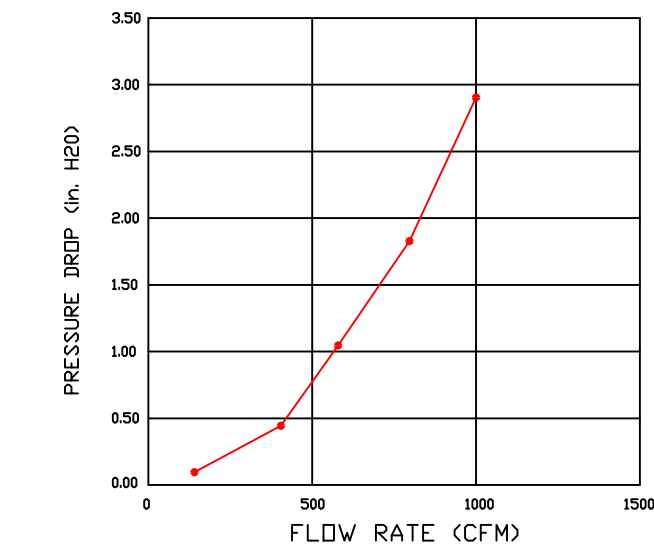
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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.

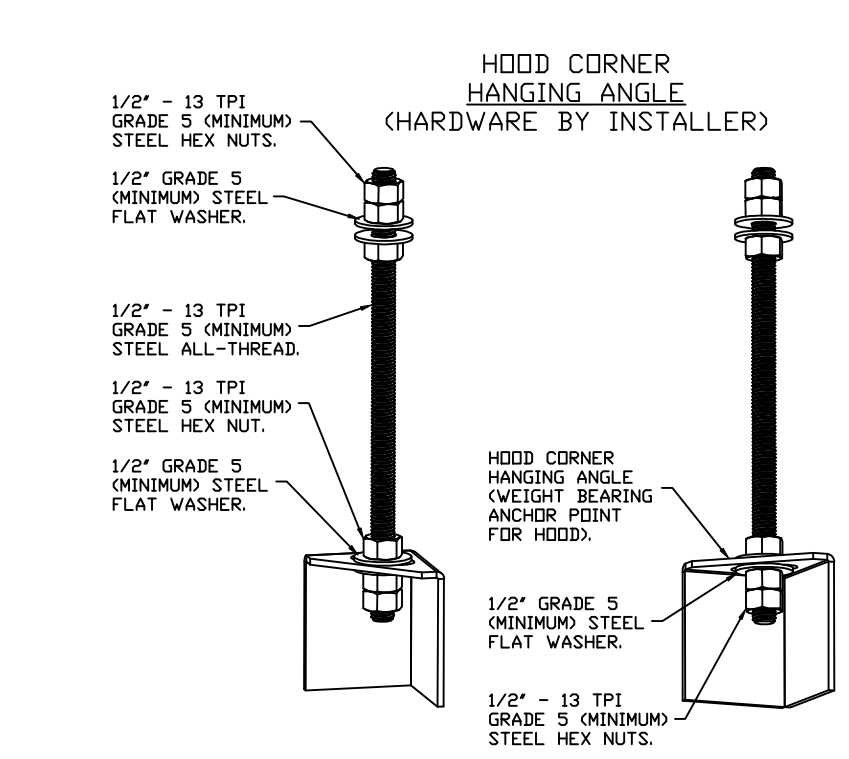
EFFICIENCY VS. PARTICLE DIAMETER



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.

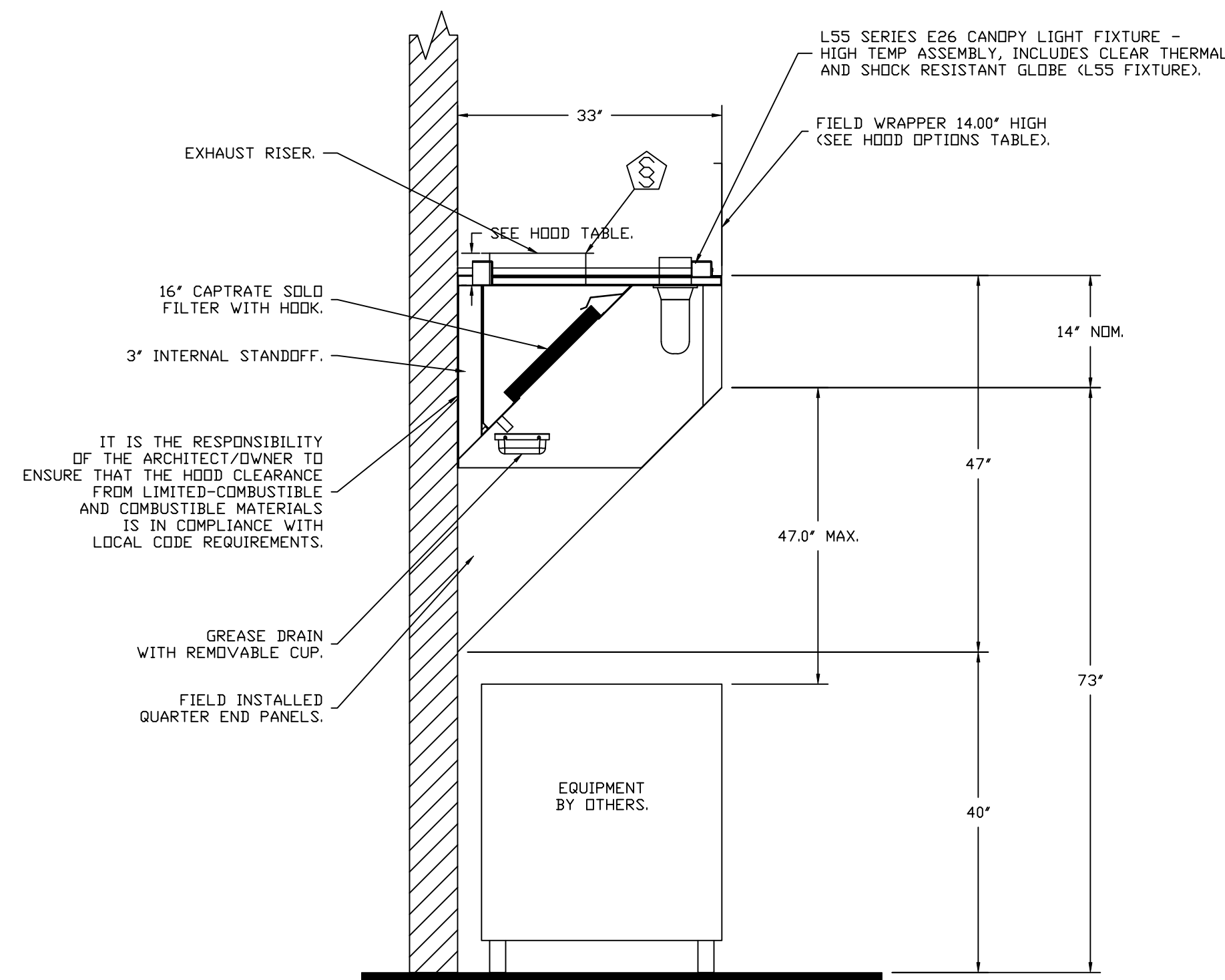
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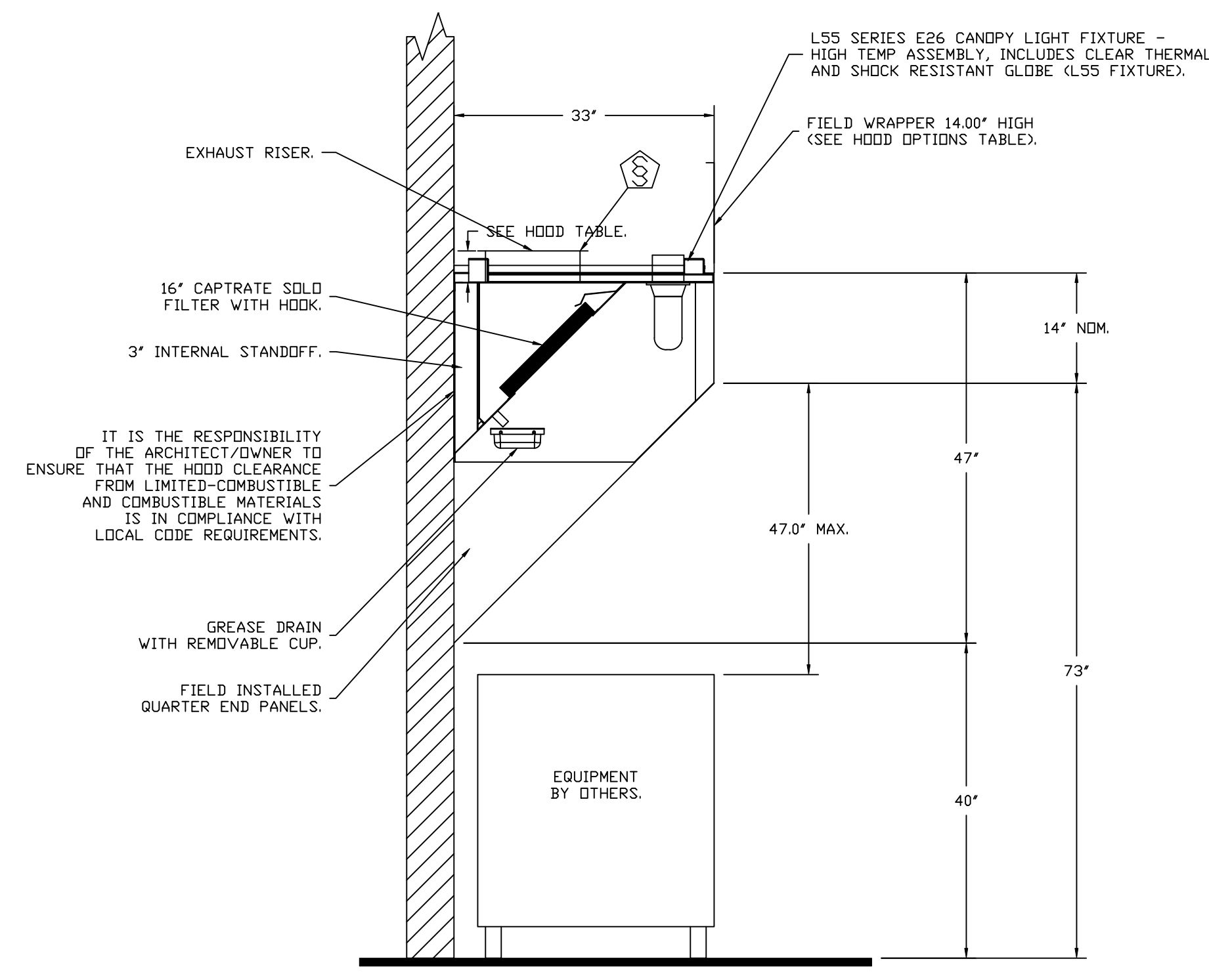
CULVERS PRINCETON MN
PRINCETON, MN, 55371

DATE: 7/24/2024
 DWG.#: 6938827
 DRAWN BY: sluddy jr
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

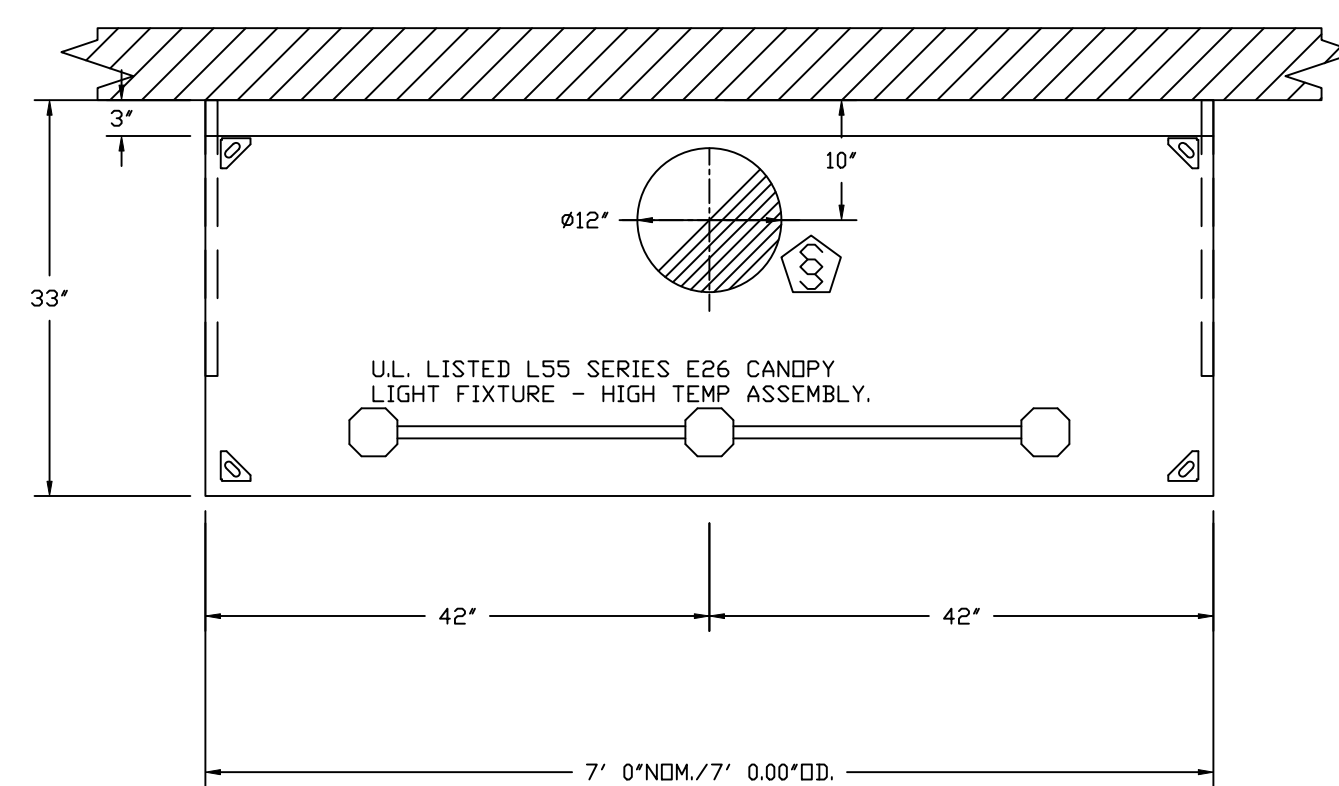
SHEET NO.
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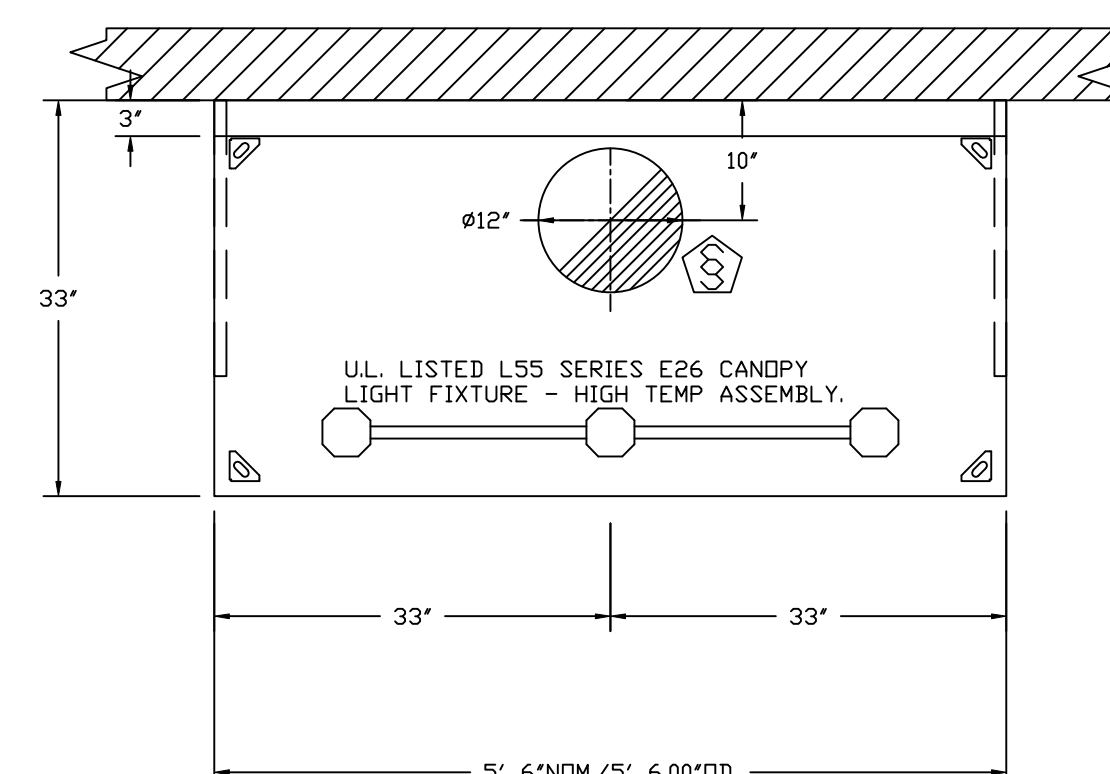
SECTION VIEW - MODEL 3347BD-2
HOOD - #1 (FRYER HOOD)



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



PLAN VIEW - HOOD #1 (FRYER HOOD)
7' 0.00" LONG 3347BD-2



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

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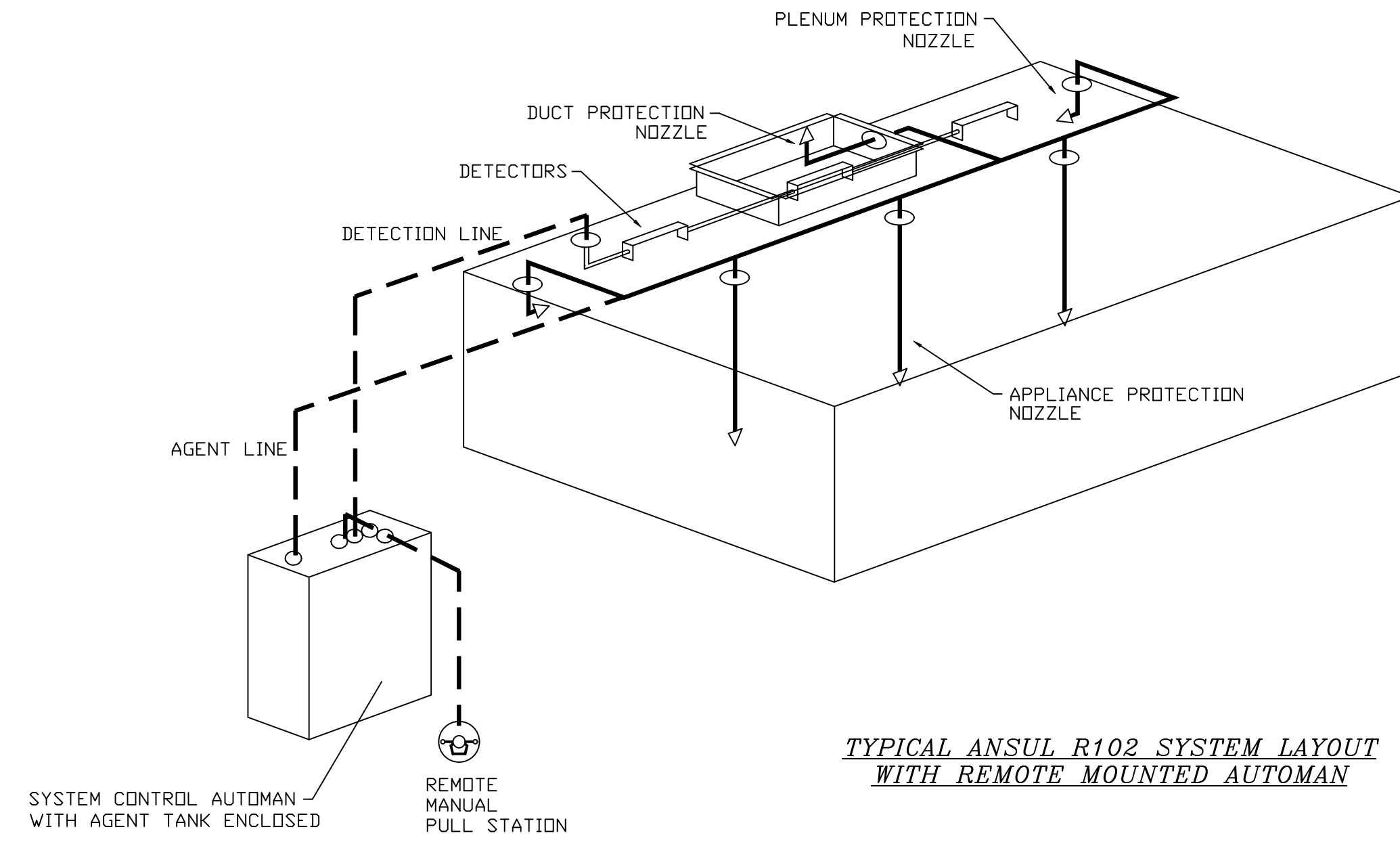
SHEET NO.
 2

FIRE SYSTEM INFORMATION – JOB#6346059

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	22	14	WALL MOUNT LEFT	N/A
2		ANSUL R102	3.0	11	6	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		0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	6	0	
		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 - 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 - HOSEGROMMET 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 ADAPTOR - SWIVEL NOZZLE ADAPTOR (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	
	2		0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	4	0
			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 - 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 ADAPTOR - SWIVEL NOZZLE ADAPTOR (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	
		ADDITIONAL PARTS TO BE DETERMINED...			



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SHEET NO.
3

EXHAUST FAN INFORMATION - JOB#6938827

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	TEAD-ECM	0.250	0.1110	1	115	2.9		50	7
2	PRV-2	1	DU8SHFA	CAPTIVEAIRE	1500	1.412	1406	TEAD-ECM	1.000	0.5330	1	115	11.6	475 FPM	94	12.3
3	PRV-3	1	DU8SHFA	CAPTIVEAIRE	1500	1.250	1348	TEAD-ECM	1.000	0.4700	1	115	11.6	475 FPM	94	11.3
4	EF-1	2	CFA 100CA	CAPTIVEAIRE	75	0.125	493	GENERAL PURPOSE	0.116	0.0510	1	115	1.1		25	N/A

DOAS/RTU FAN SCHEDULE - JOB#6938827

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION										ELECTRICAL INFORMATION										COOLING INFORMATION										REHEAT INFORMATION										GAS HEAT INFORMATION										NOTES
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	DB	WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	DP	TOTAL	SENS.	IEER	ISMRE	DISCHARGE DB	DISCHARGE WB	CAPACITY DESIRED	CAPACITY MAX	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUS	OUTPUT BTUS	TEMP RISE	REQUIRED INPUT GAS PRESSURE																			
5	RTU-1 DINING	1	CAS-HVAC3-1400-24-20T	CAPTIVEAIRE	24MF-3-RTU	4400	1750	6150	2885	0.750	10.00	3	208	1041A	125A	81.3°F	74.9°F	76.8°F	66.0°F	52.9°F	52.9°F	53.0°F	234.0 MBH	152.9 MBH	18.2	6.0	70.0°F	59.6°F	114.4 MBH	129.6 MBH	74.8 LBS/HR	NATURAL	306173	248000	37°F	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18																		
6	RTU-2 KITCHEN	1	CAS-HVAC3-1300-24-20T	CAPTIVEAIRE	24MF-3-RTU	4450	1700	6150	2839	0.750	10.00	3	208	1041A	125A	81.3°F	74.9°F	76.8°F	66.0°F	52.9°F	52.9°F	53.0°F	234.0 MBH	152.5 MBH	18.2	6.0	70.0°F	59.6°F	114.1 MBH	129.6 MBH	74.8 LBS/HR	NATURAL	249383	202000	31°F	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18																		

NOTES:

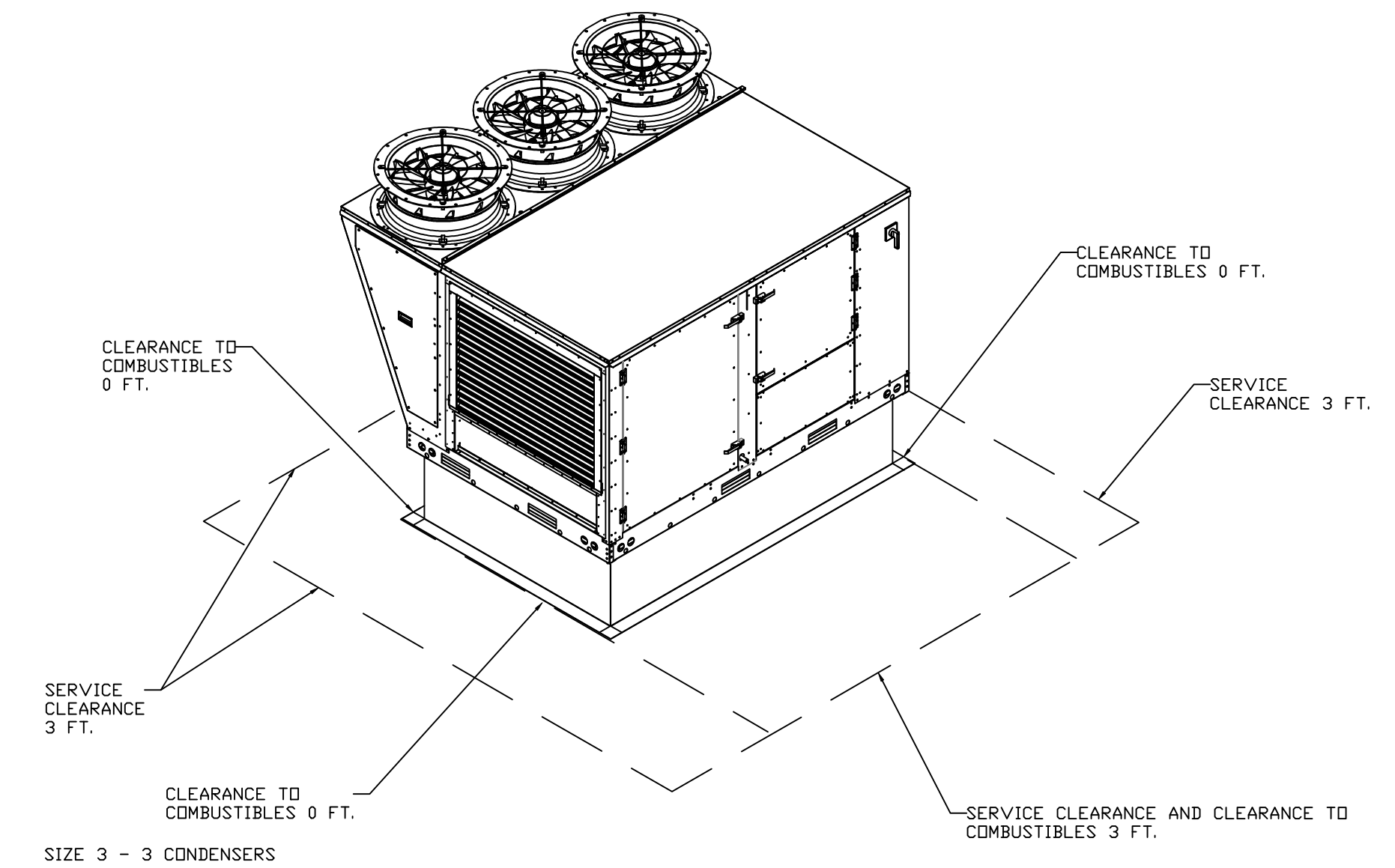
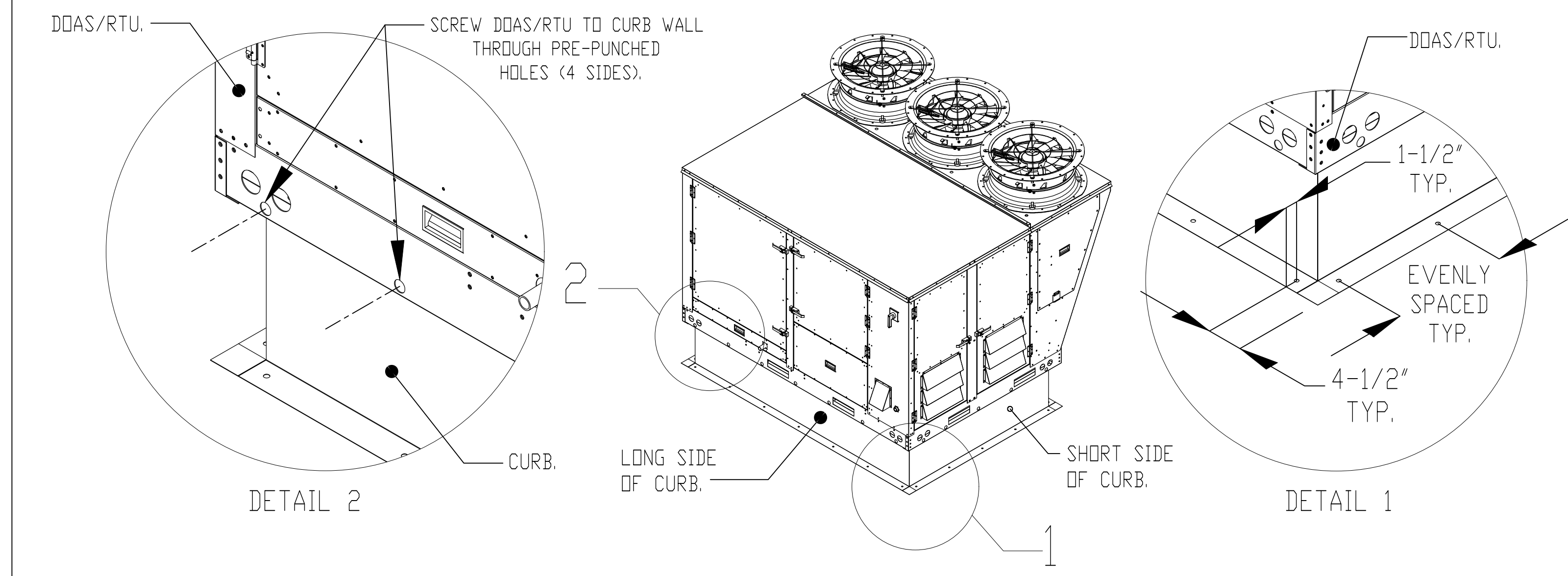
- INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL DR STAGED SCROLL NOT AN APPROVED EQUAL.
- DIRECT DRIVE FLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE.
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER.
- REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE.
- EC MOTOR CONDENSING FANS.
- ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE.
- SUCTION LINE ACCUMULATOR.
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY. 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
- AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT).
- 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE.
- BIG EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP.
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE.
- FULLY MODULATING HOT GAS REHEAT.
- 15 DEGREE LOW AMBIENT OPERATION.
- HALL GUARD FOR CONDENSING COIL.
- RTU ECONOMIZER WITH FIXED ENTHALPY CONTROL.
- BAROMETRIC RELIEF DAMPER.
- DOWN DISCHARGE/DOWN RETURN.

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	1 RTU3 HAIL GUARD
			1 ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION				1 RTU SIZE 3 INTAKE HOOD, SHIPPED LOOSE
2	PRV-2	1	2 YEAR PARTS WARRANTY	1	RTU DOWN RETURN	1	1 RTU DOWN RETURN
			1 GREASE BOX				1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
3	PRV-3	1	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, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)	1	1 EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET
			1 FAN BASE CERAMIC SEAL - DU/DRBSHFA - SHIP LOOSE - FOR GREASE DUCTS				1 INLET PRESSURE GAUGE, 0-35"
4	EF-1	2	2 MGI - METAL GRILLE KIT	1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE	1	1 INLET PRESSURE GAUGE, 0-35"
			2 YEAR PARTS WARRANTY				1 MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
5	RTU-1 DINING	1	1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER	1	TOTAL CFM MONITORING	1	1 INTAKE FIRESTAT SET TO 135°F
			1 INLET PRESSURE GAUGE, 0-35"				1 FREEZESTAT
6	RTU-2 KITCHEN	1	1 SHIP LOOSE GAS STRAINER 1"	1	SHIP LOOSE GAS STRAINER 1"	1	1 DISCHARGE FIRESTAT SET TO 240°F
			1 SINGLE POINT ELECTRICAL CONNECTION FOR RTU 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "EP" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE				1 SHIP LOOSE GAS STRAINER 1"
7	RTU-1 DINING	1	1 CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
			1 RTU3 DOWN DISCHARGE, 400, 500 MBH				1 2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
8	RTU-1 DINING	1	1 RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED	1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 ECONOMIZER BAROMETRIC RELIEF
9	RTU-1 DINING	1	1 VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 RTU3 HAIL GUARD
			1 CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F				1 RTU3 DOWN RETURN
10	RTU-1 DINING	1	1 OCCUPIED SCHEDULING	1	RTU3 CURB DUCT HANGER	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CURB DUCT HANGER				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
11	RTU-1 DINING	1	1 120V FIRE INPUT	1	RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED	1	1 CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F
			1 RTU RETURN MOUNTED SMOKE DETECTOR AND SAMPLING TUBE - FACTORY INSTALLED				1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
12	RTU-1 DINING	1	1 LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT	1	RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 ECONOMIZER BAROMETRIC RELIEF
13	RTU-1 DINING	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A				1 RTU3 DOWN RETURN
14	RTU-1 DINING	1	1 RTU ECONOMIZER - FIXED ENTHALPY CONTROL	1	RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 ECONOMIZER BAROMETRIC RELIEF				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
15	RTU-1 DINING	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
16	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
17	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
18	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
19	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
20	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
21	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
22	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
23	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
24	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
25	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
26	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
27	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
28	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
29	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
30	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
31	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
32	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
33	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
34	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
35	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
36	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
37	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU3 DOWN RETURN
38	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 VAV PACKAGE W/ MANUAL/BDC CONTROL (S7I VFD INCLUDED)
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 RTU HEATED FURNACE CONDENSATE DRAIN KIT. REQUIRED FOR WINTER DESIGN TEMP OF 0 DEGREES F AND LOWER
39	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	CONTROL PANEL ENCLOSURE HEATER 100W - RECOMMENDED FOR WINTER DESIGN TEMPERATURES LESS THAN 0°F	1	1 20 TON MODULATING COOLING OPTION, 208/230V, R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX				1 20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
40	RTU-2 KITCHEN	1	1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPTACLE, COVER AND J-BOX	1	RTU3 DOWN DISCHARGE, 400, 500 MBH	1	1 RTU3 HAIL GUARD
			1 RTU3 CONVENIENCE OUTLET (GFCD), 15 AMP - REQUIRES SEPARATE 120V CONNECTION INCLUDES RECEPT				

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



REVISIONS	
DESCRIPTION	DATE:

www.captiveaire.com

Florida National Accounts

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

CULVERS PRINCETON MN

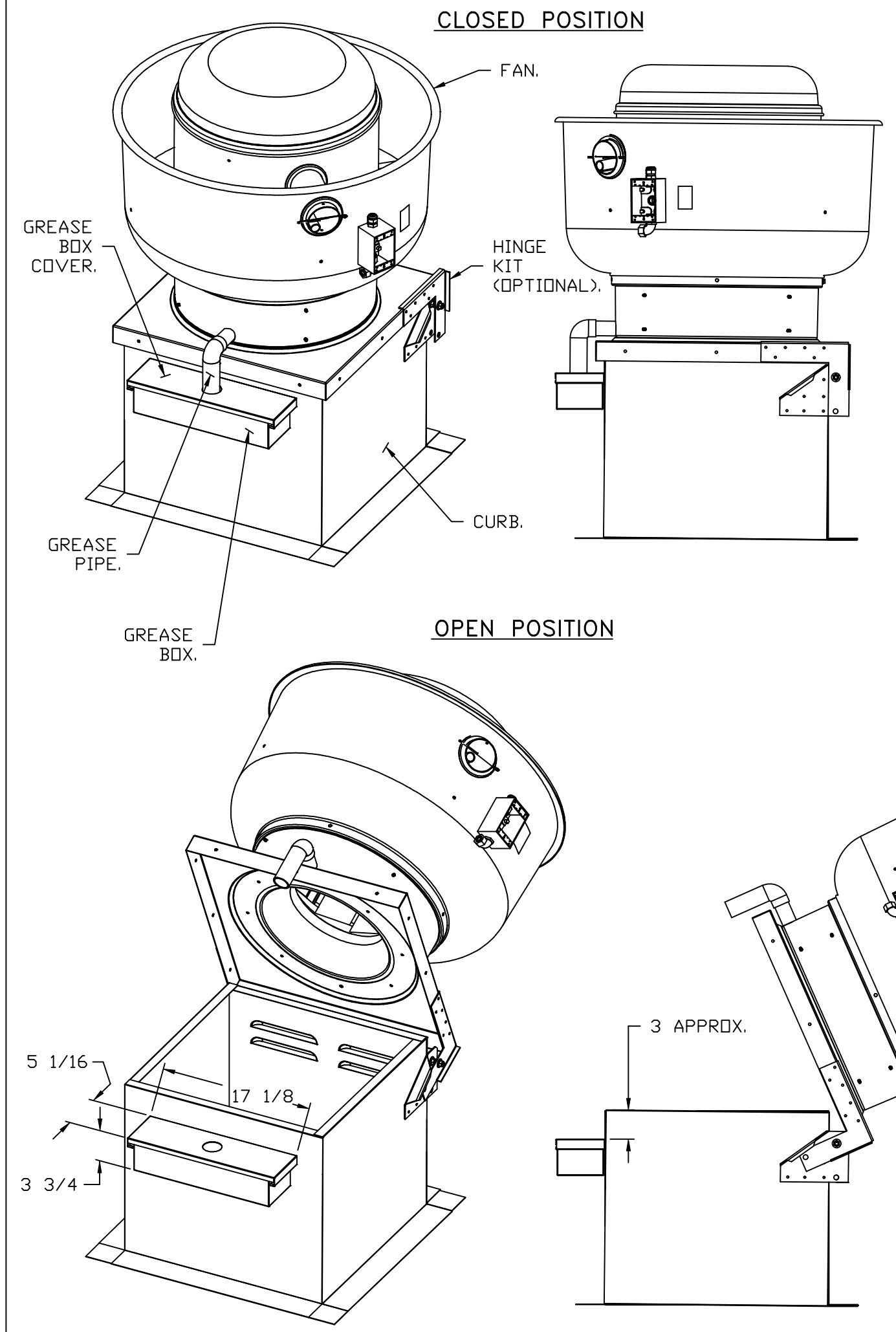
PRINCETON, MN, 55371

DATE: 7/24/2024
DWG.#: 6938827
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.

5

GREASE BOX INSTALLATION



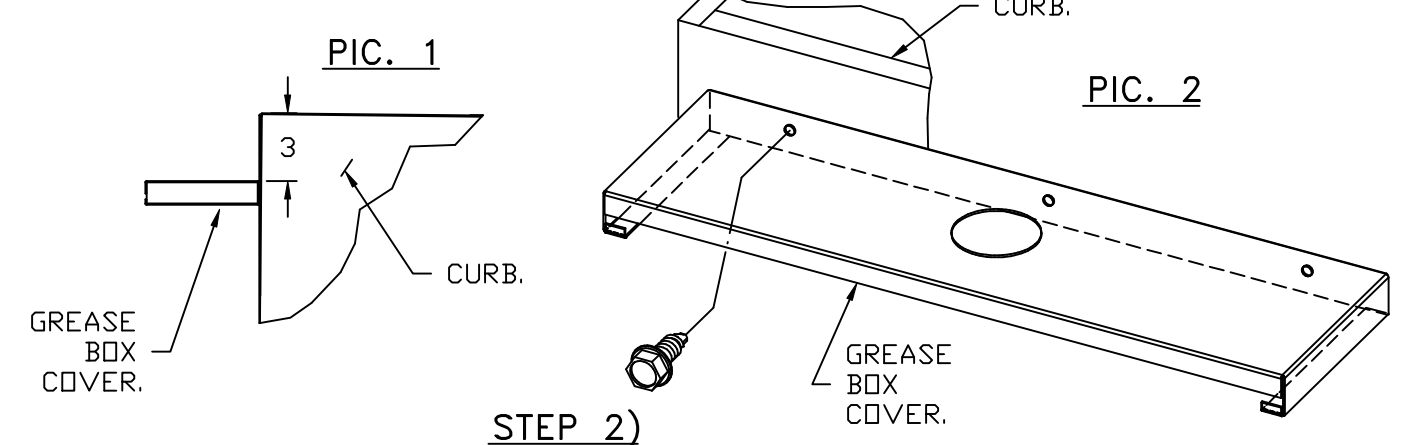
PARTS INCLUDED

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

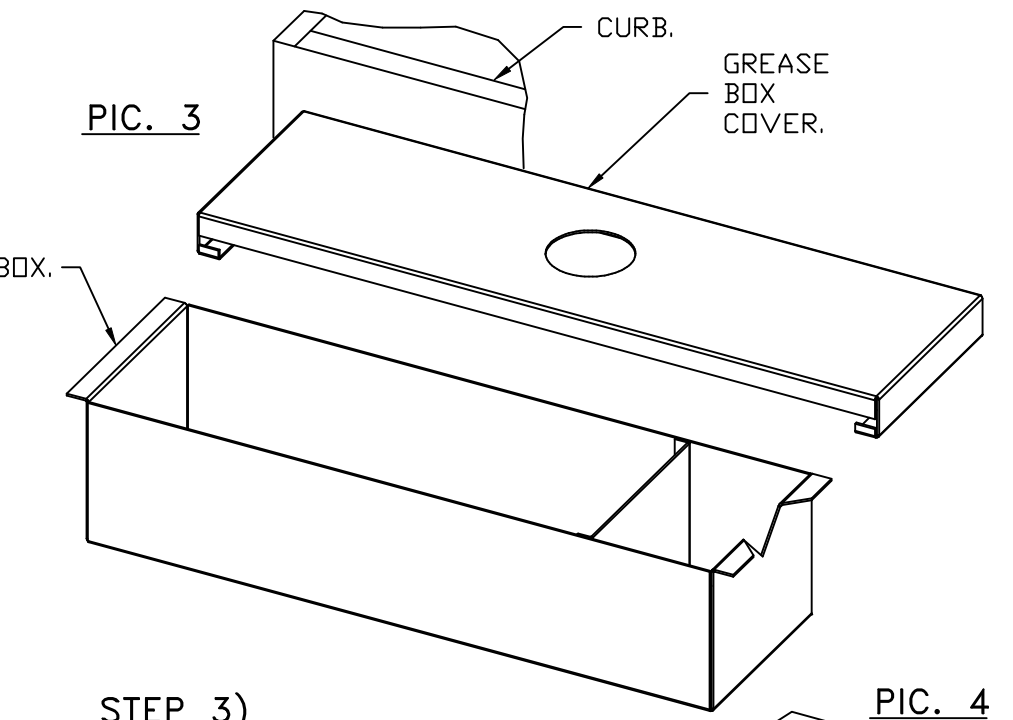
GREASEBOX
REV.#2 08/19/02

GREASE BOX FIELD INSTALLATION

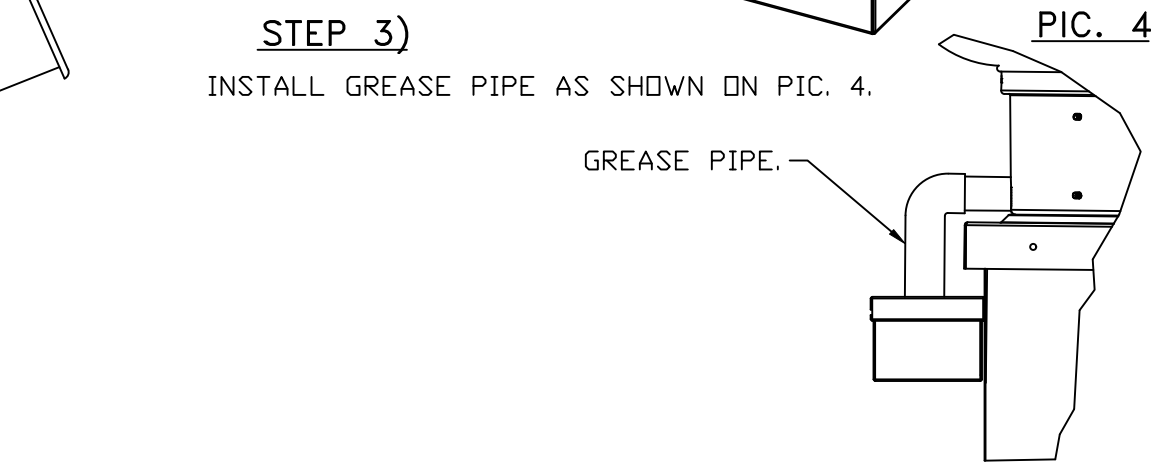
STEP 1)
ATTACH GREASE BOX COVER TO THE CURB,
HOLD 3" DIMENSION AS SHOWN ON PIC. 1.
SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.)
SCREWS AS SHOWN ON PIC. 2.



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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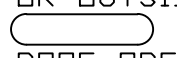
CULVERS PRINETON MN
 PRINCEON, MN, 55371

DATE: 7/24/2024
DWG.#: 6938827
DRAWN BY: sluddy jr
SCALE: 3/4" = 1'-0"
MASTER DRAWING

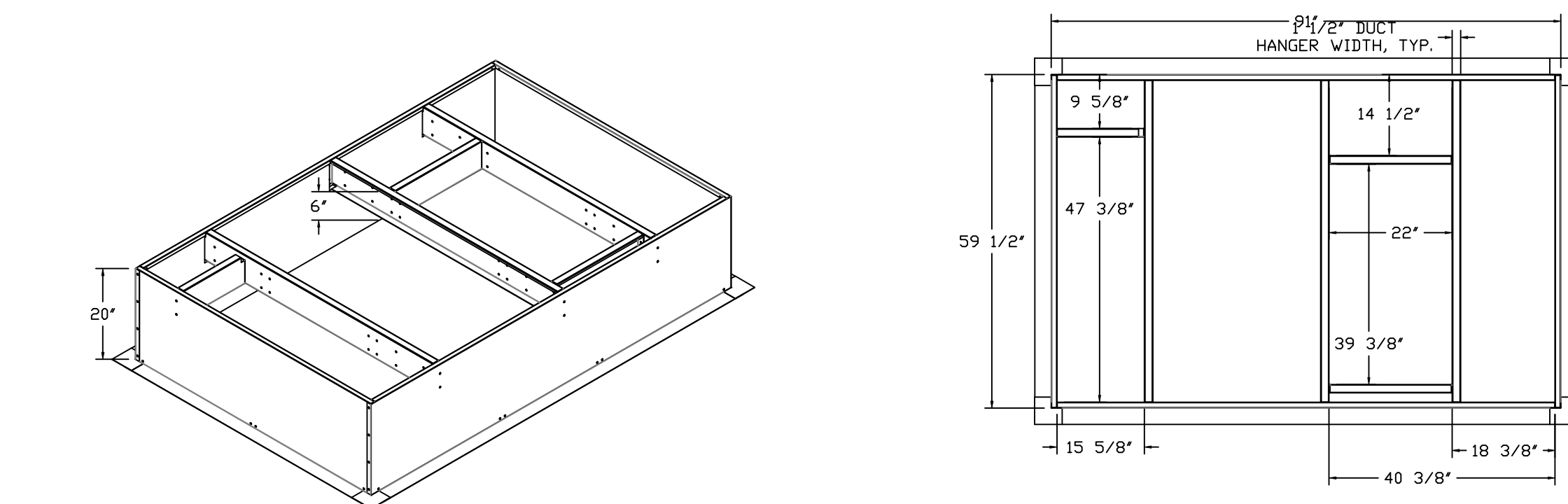
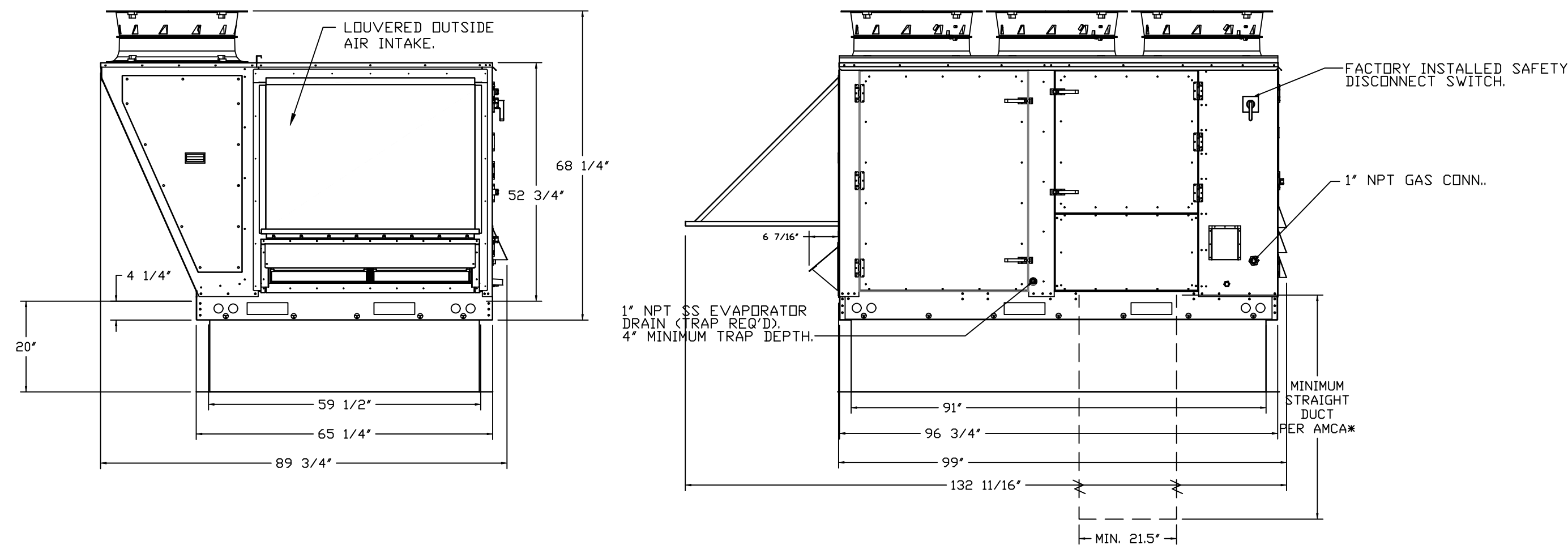
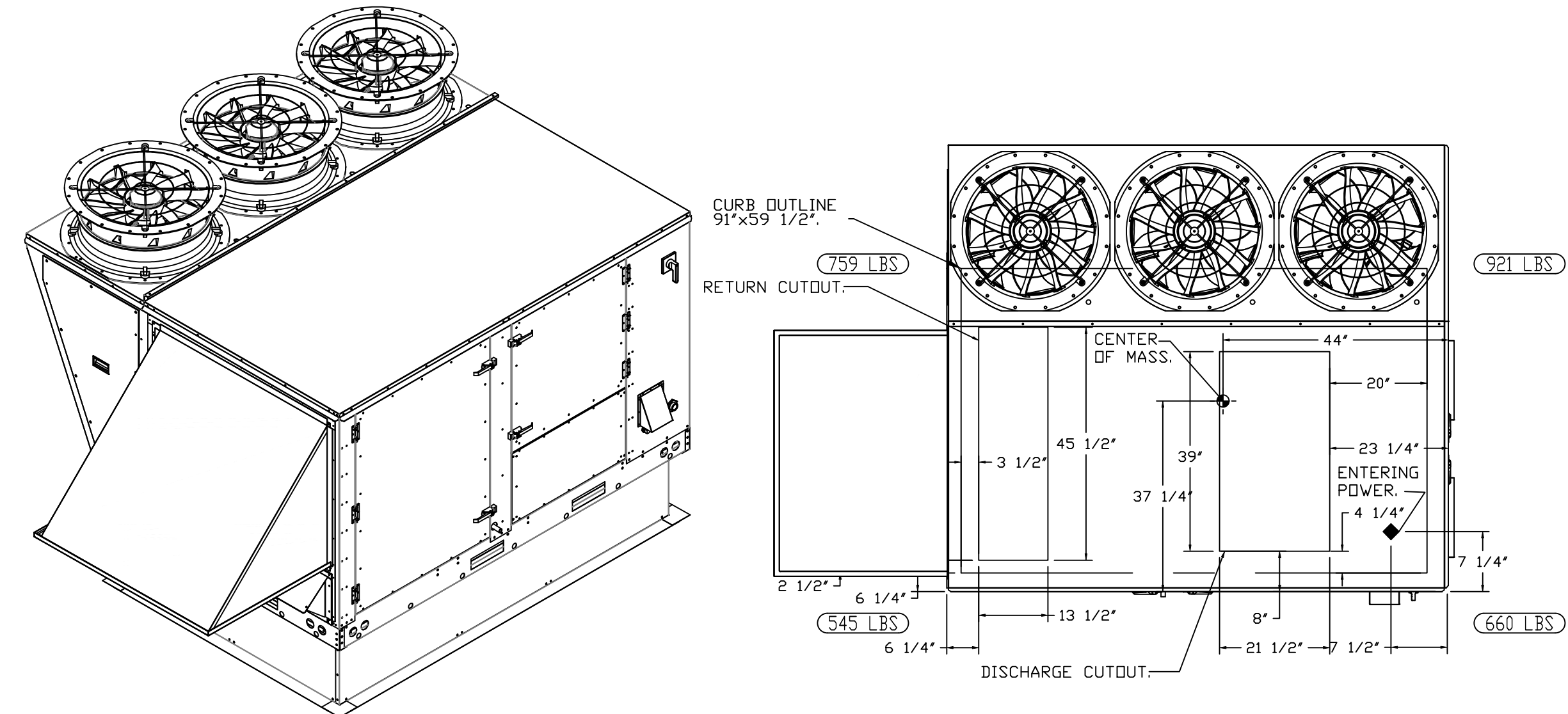
SHEET NO.
 6

FAN #5 CAS-HVAC3-I.400-24MF-20T - HEATER (RTU-1 DINING)

NOTES:

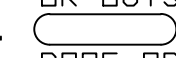
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY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

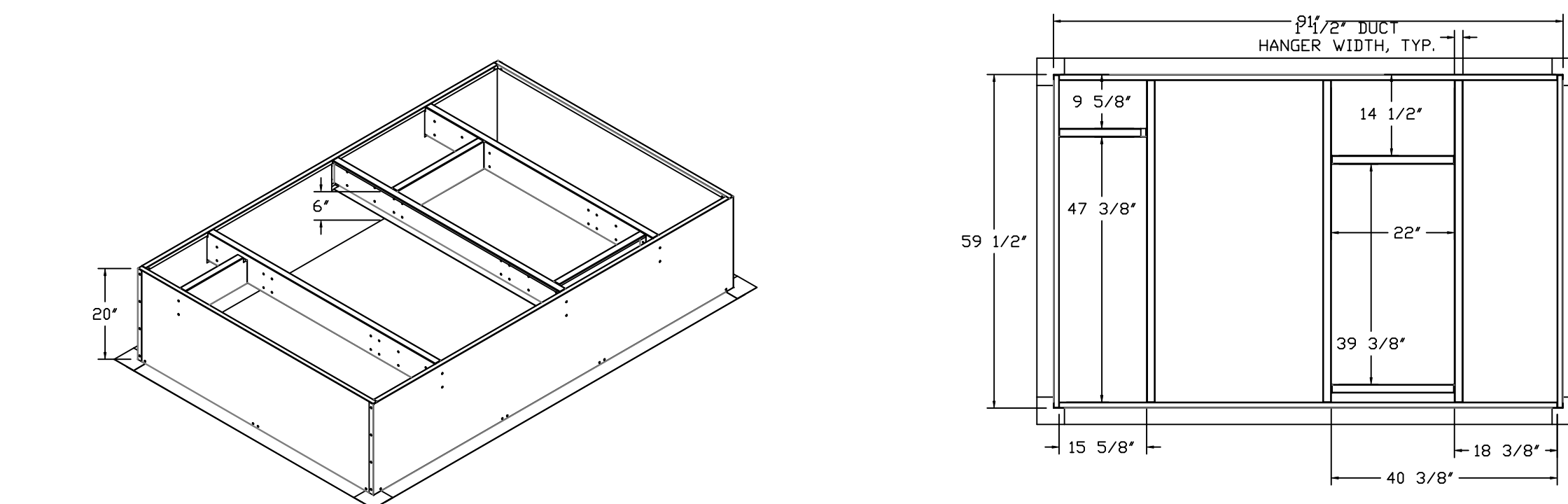
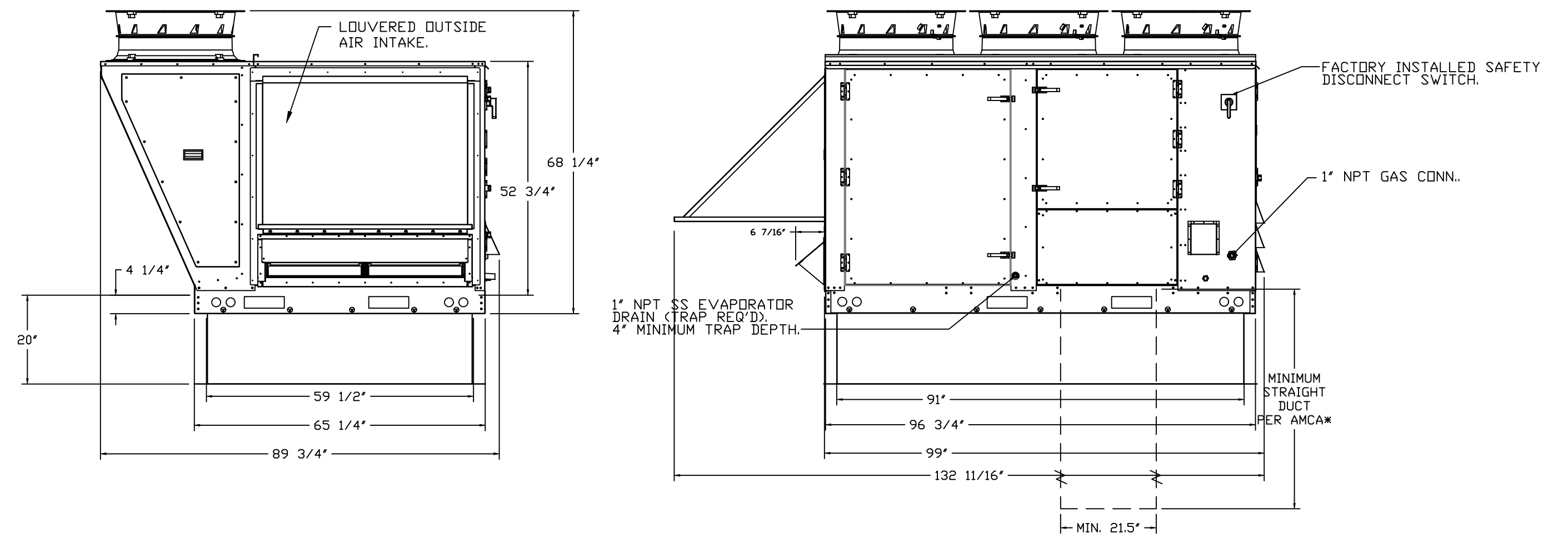
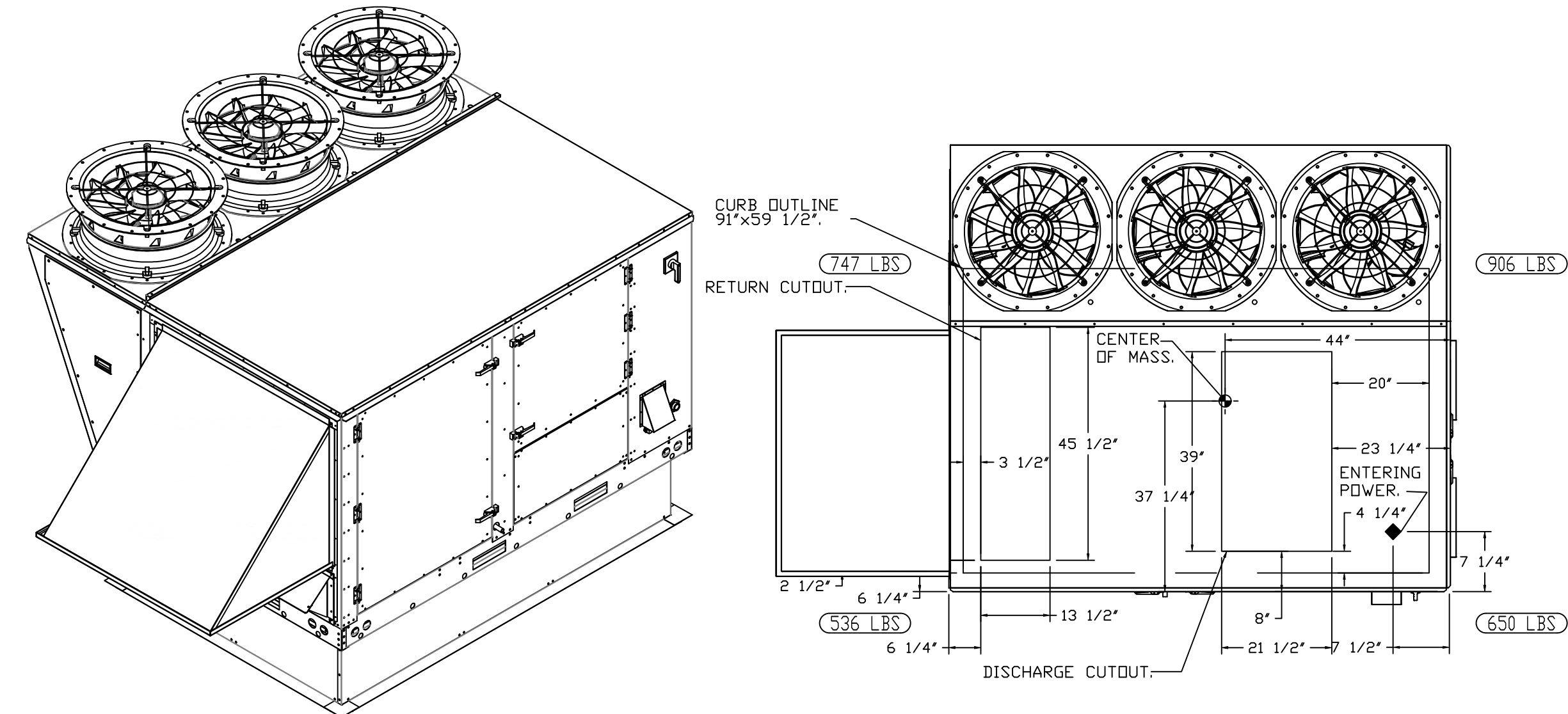


FAN #6 CAS-HVAC3-I.300-24MF-20T - HEATER (RTU-2 KITCHEN)

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.
- 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".



REVISIONS	
DESCRIPTION	DATE

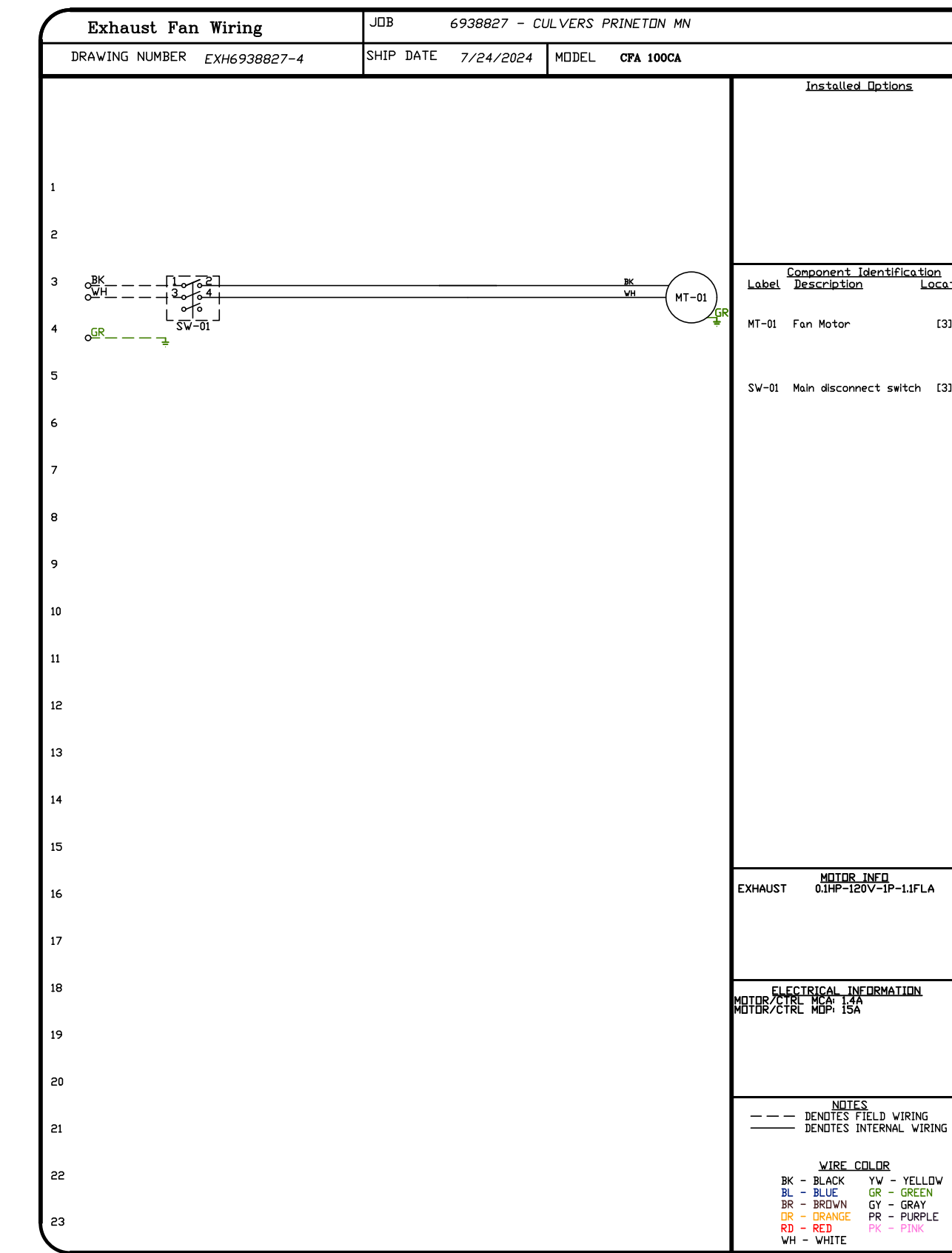
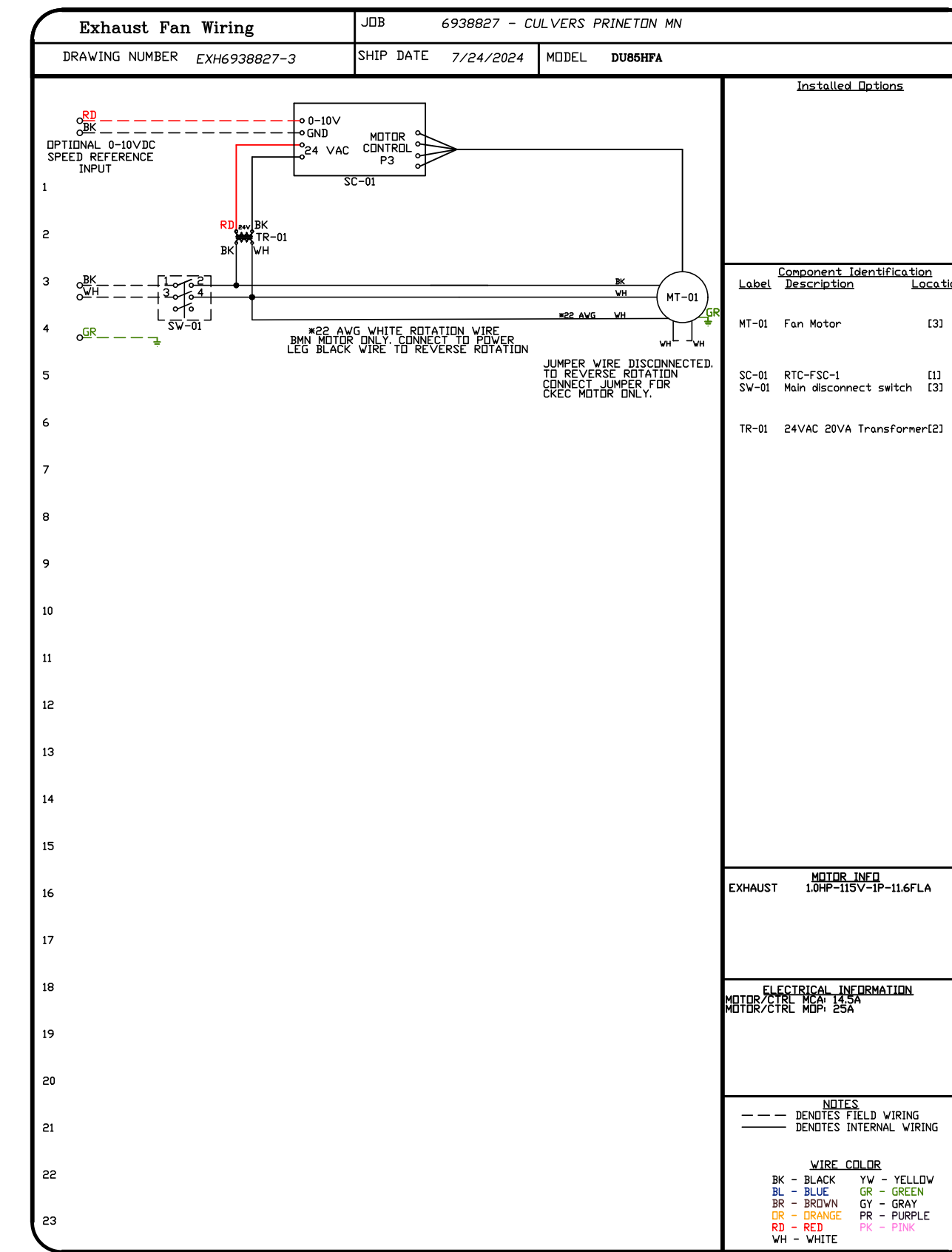
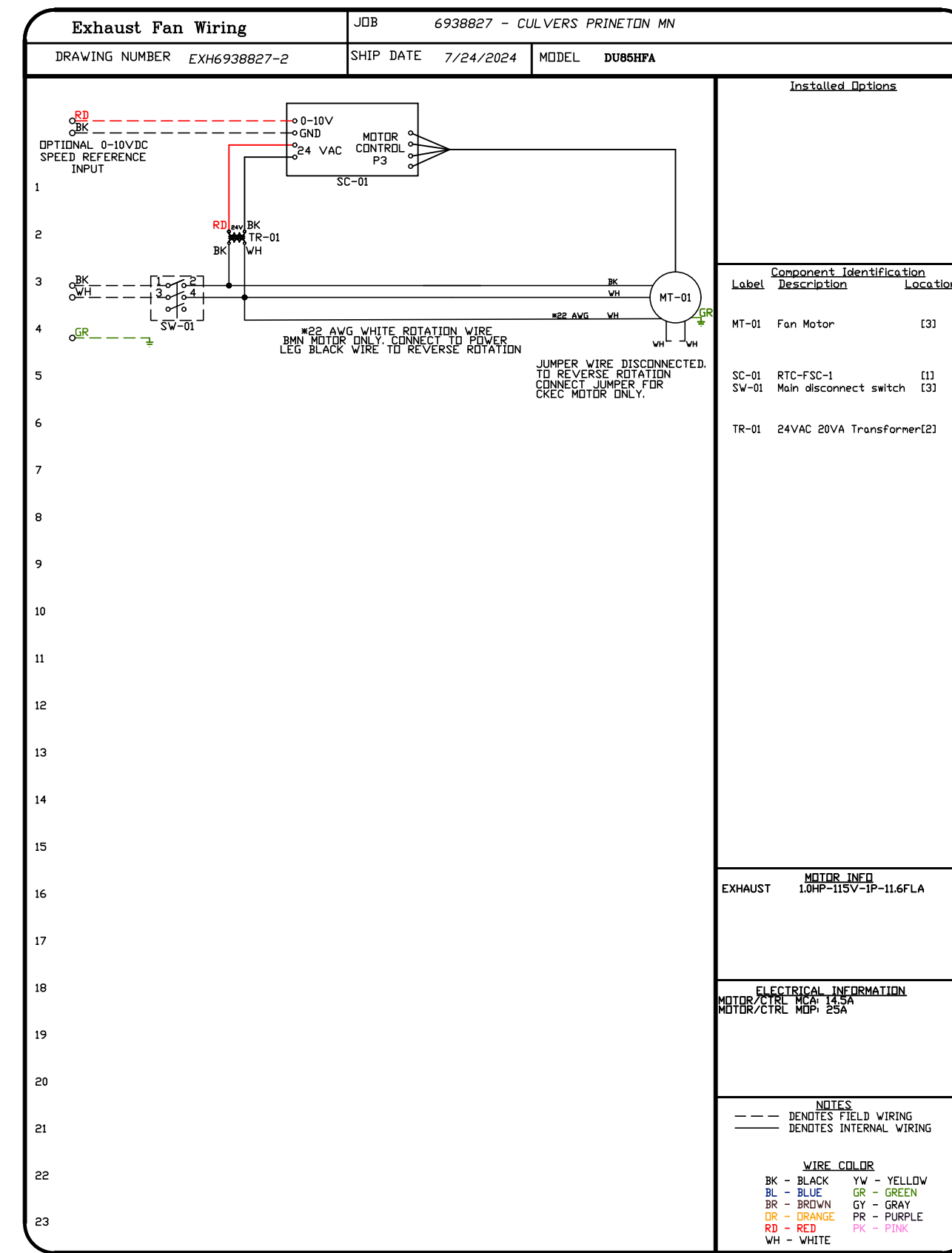
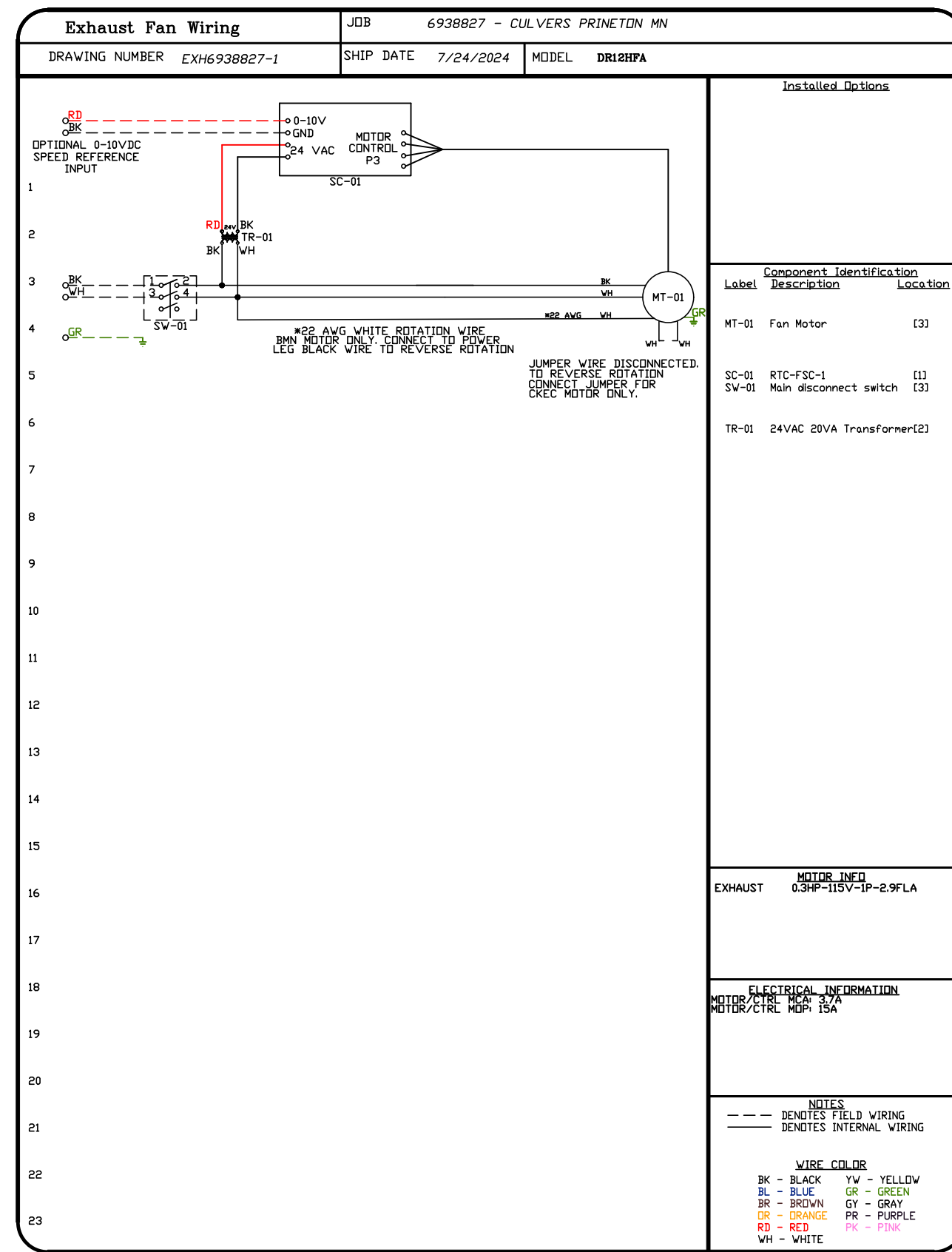
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 DWG.#: 6938827
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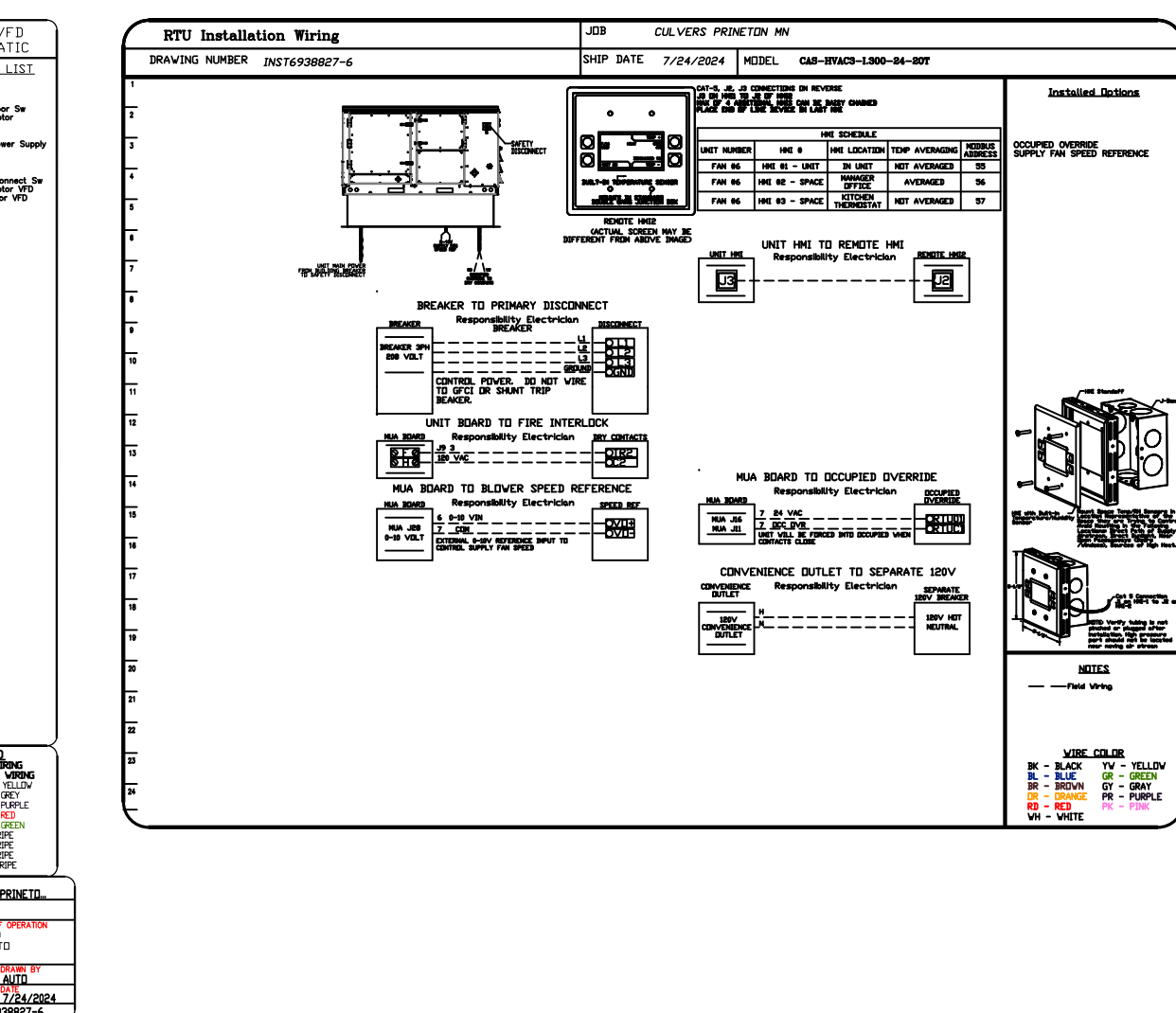
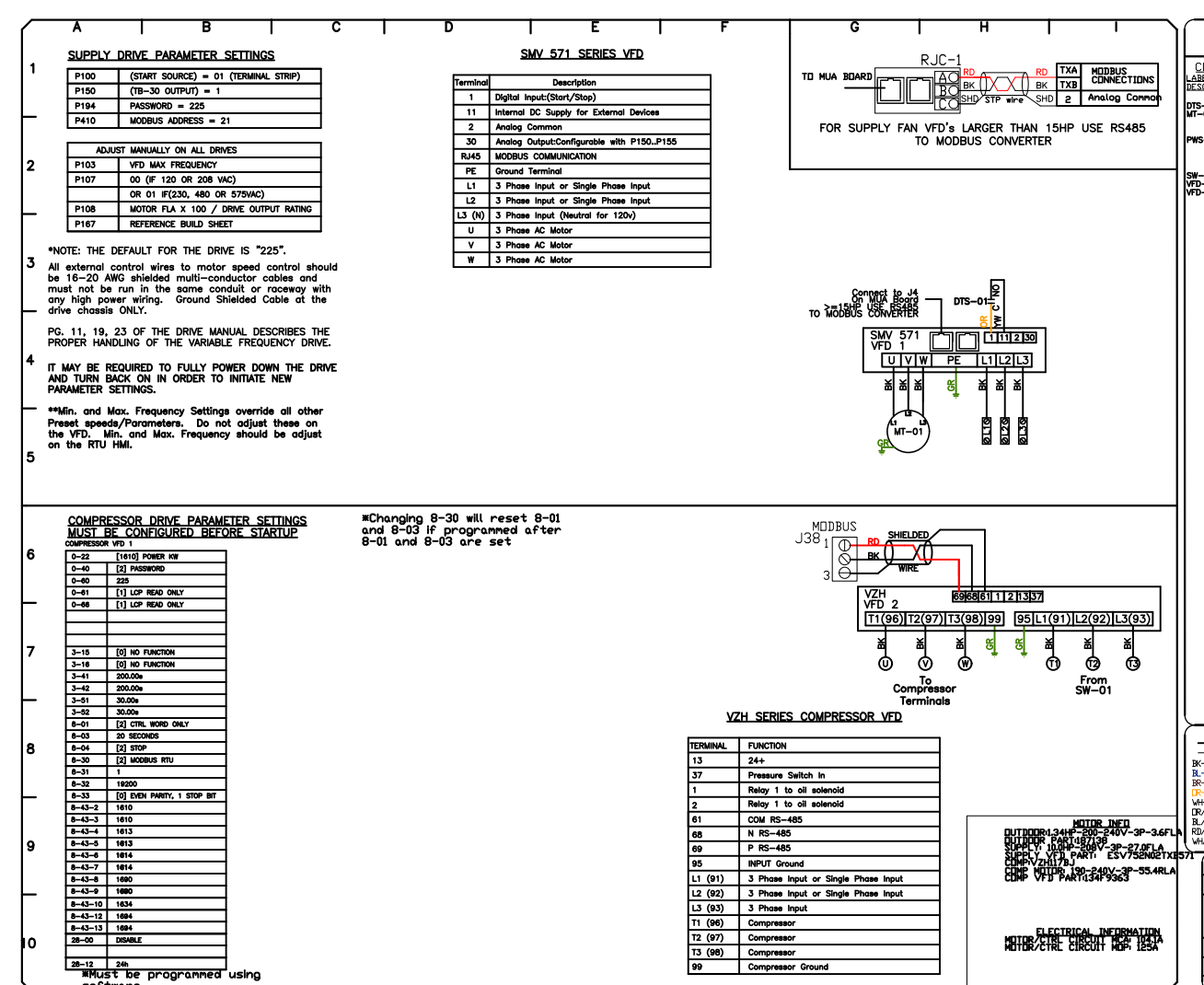
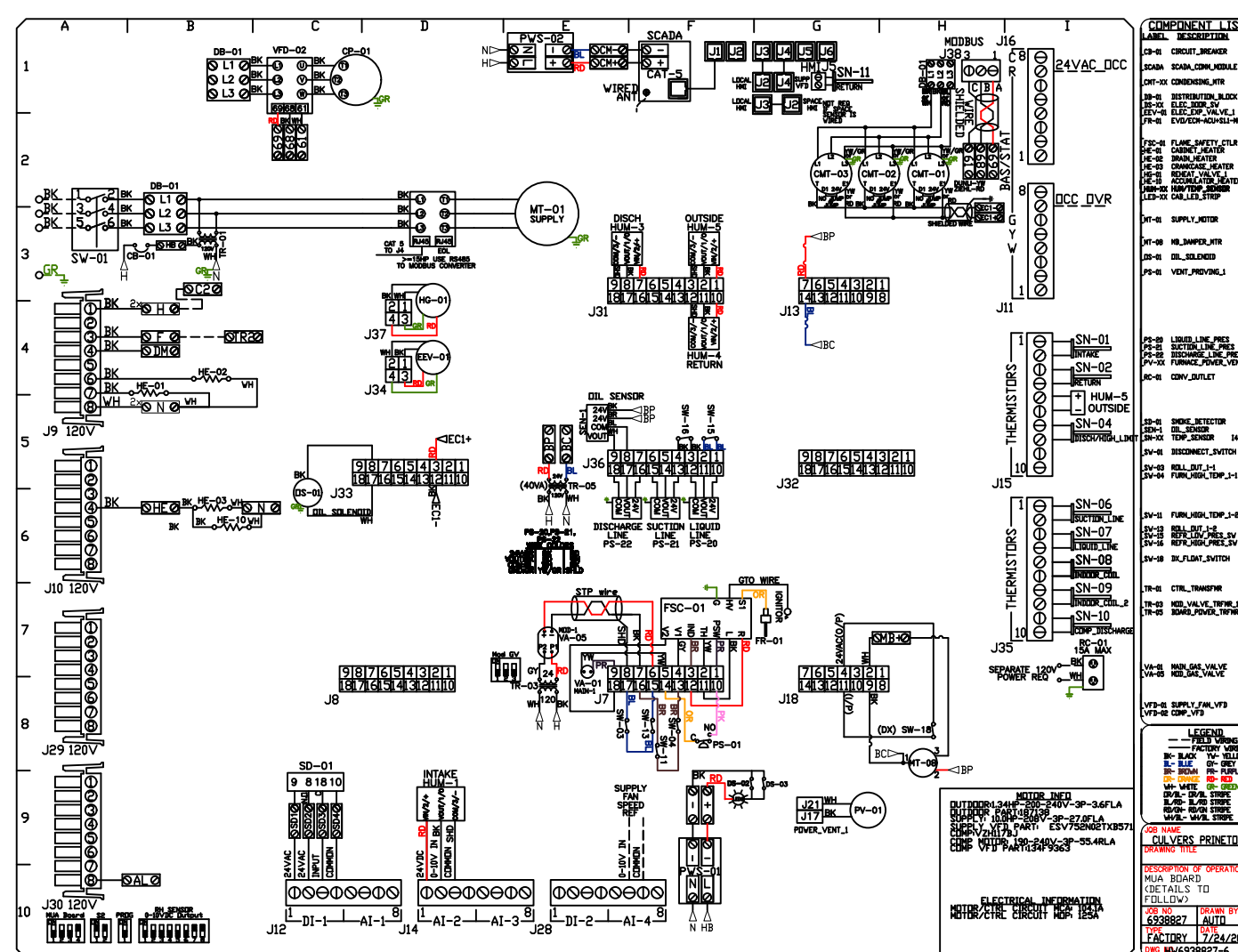
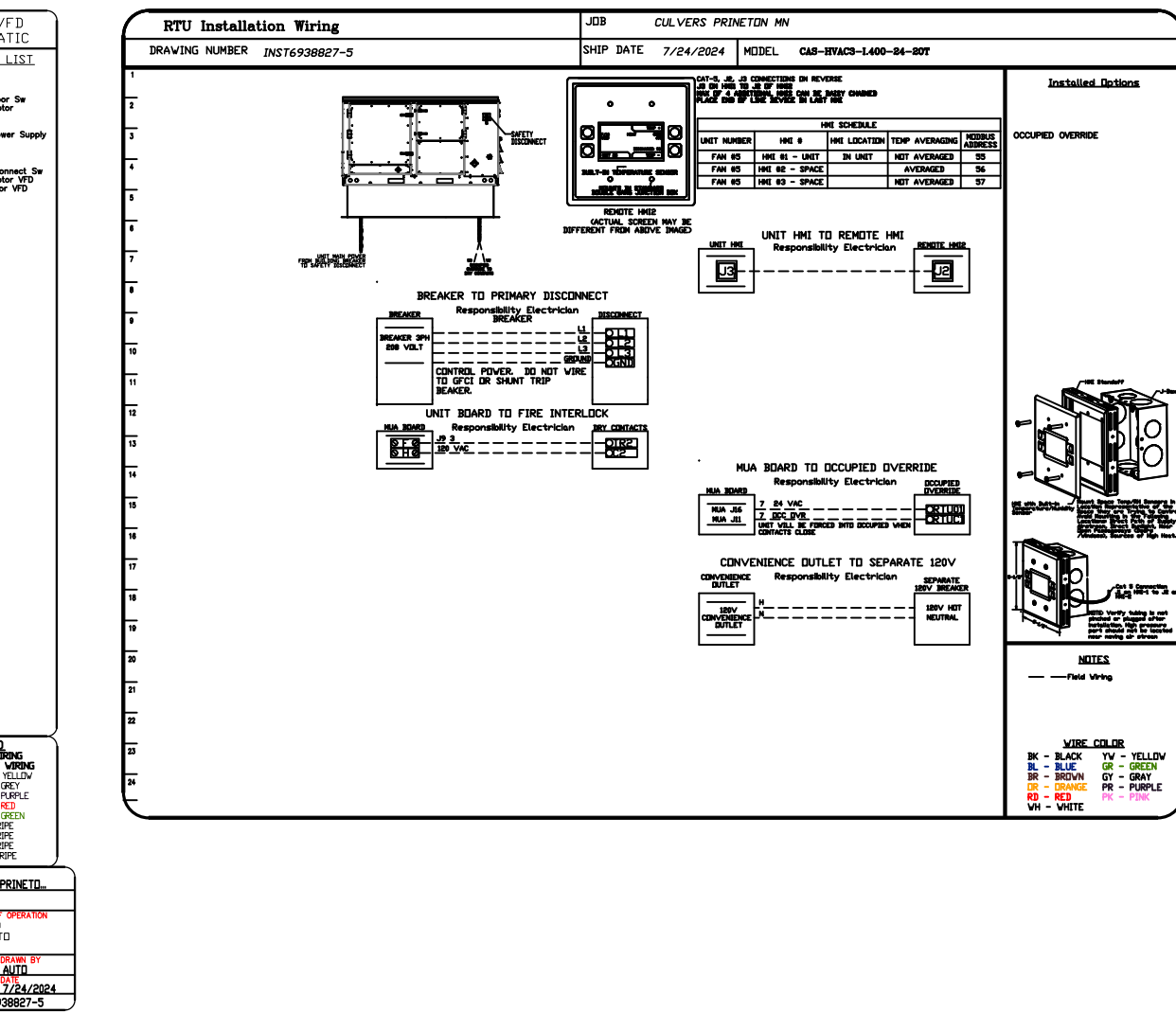
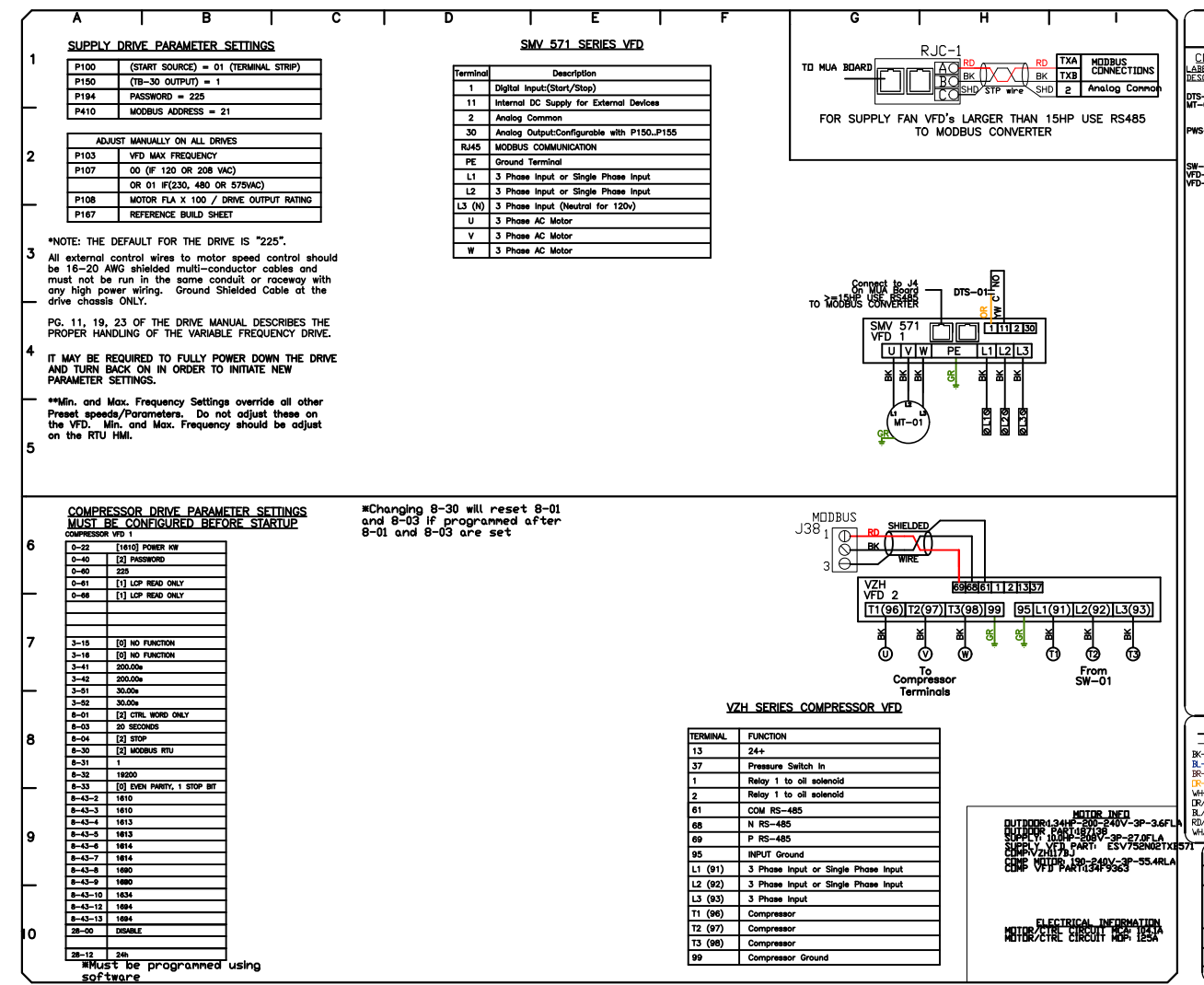
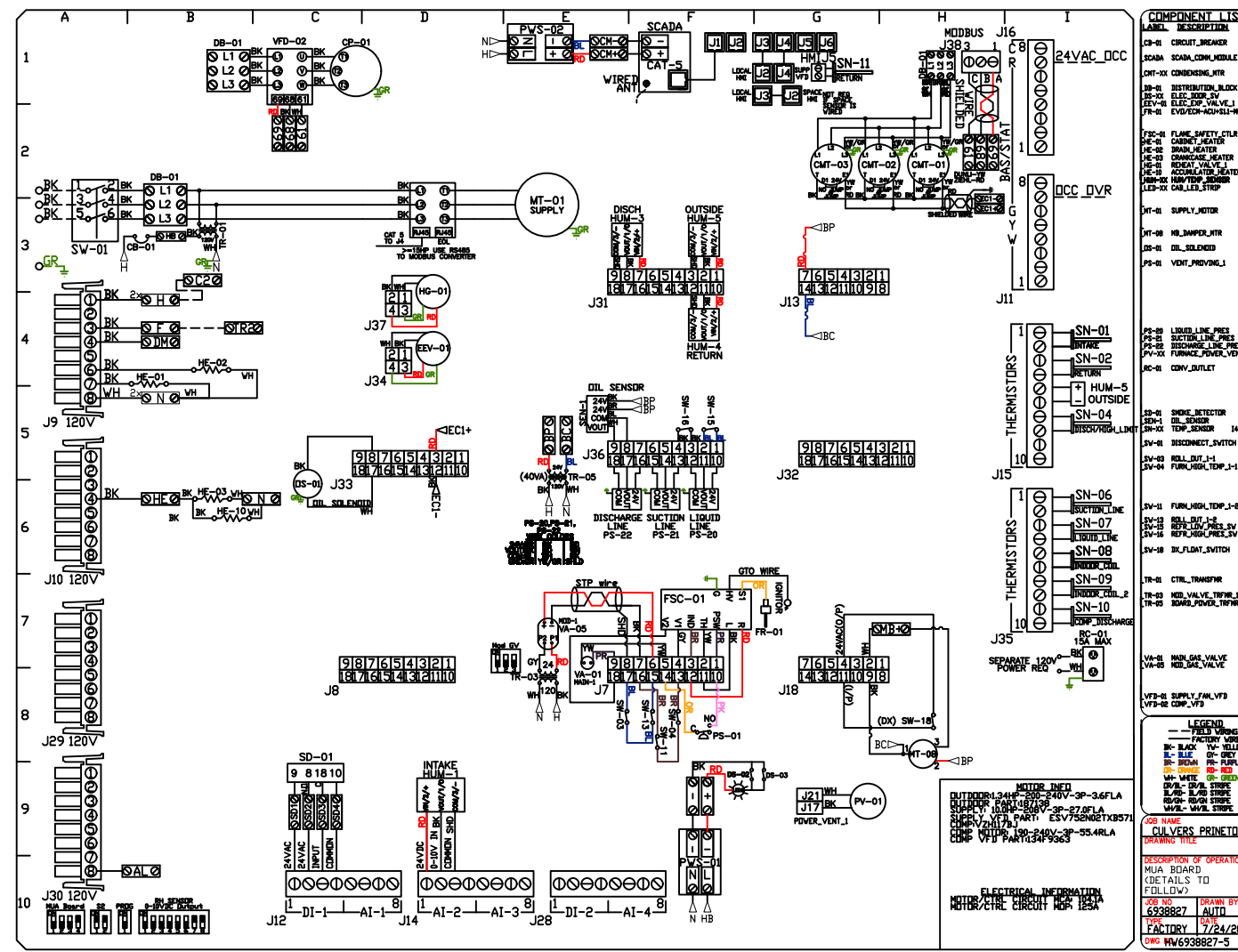
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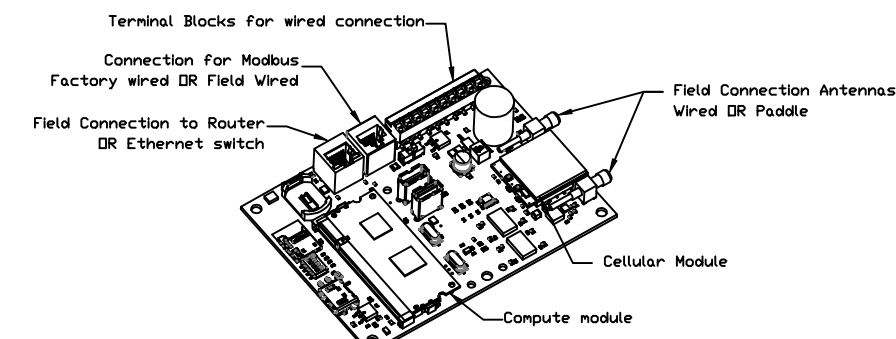
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ELECTRICAL PACKAGE - JOB#6938827

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

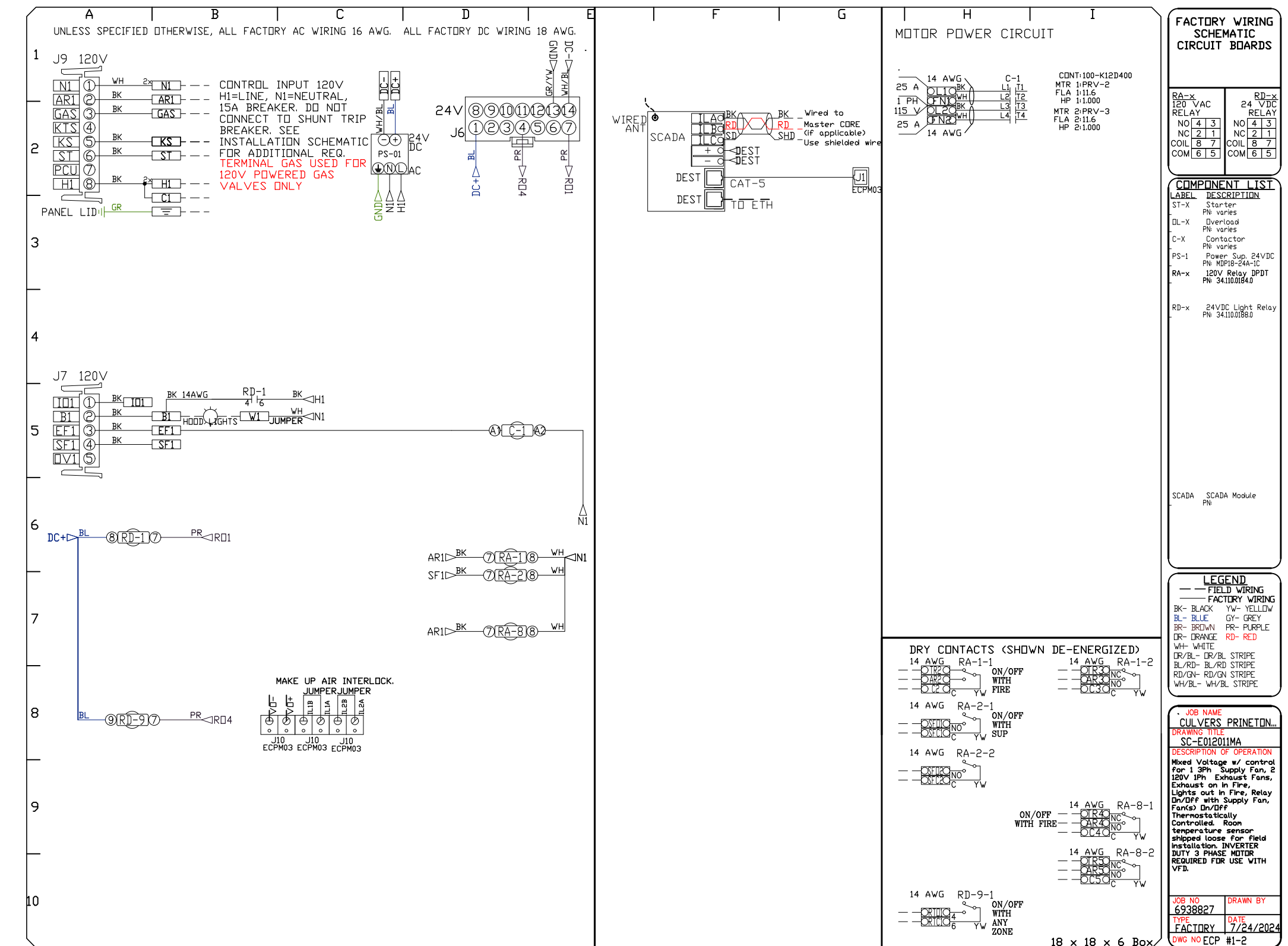
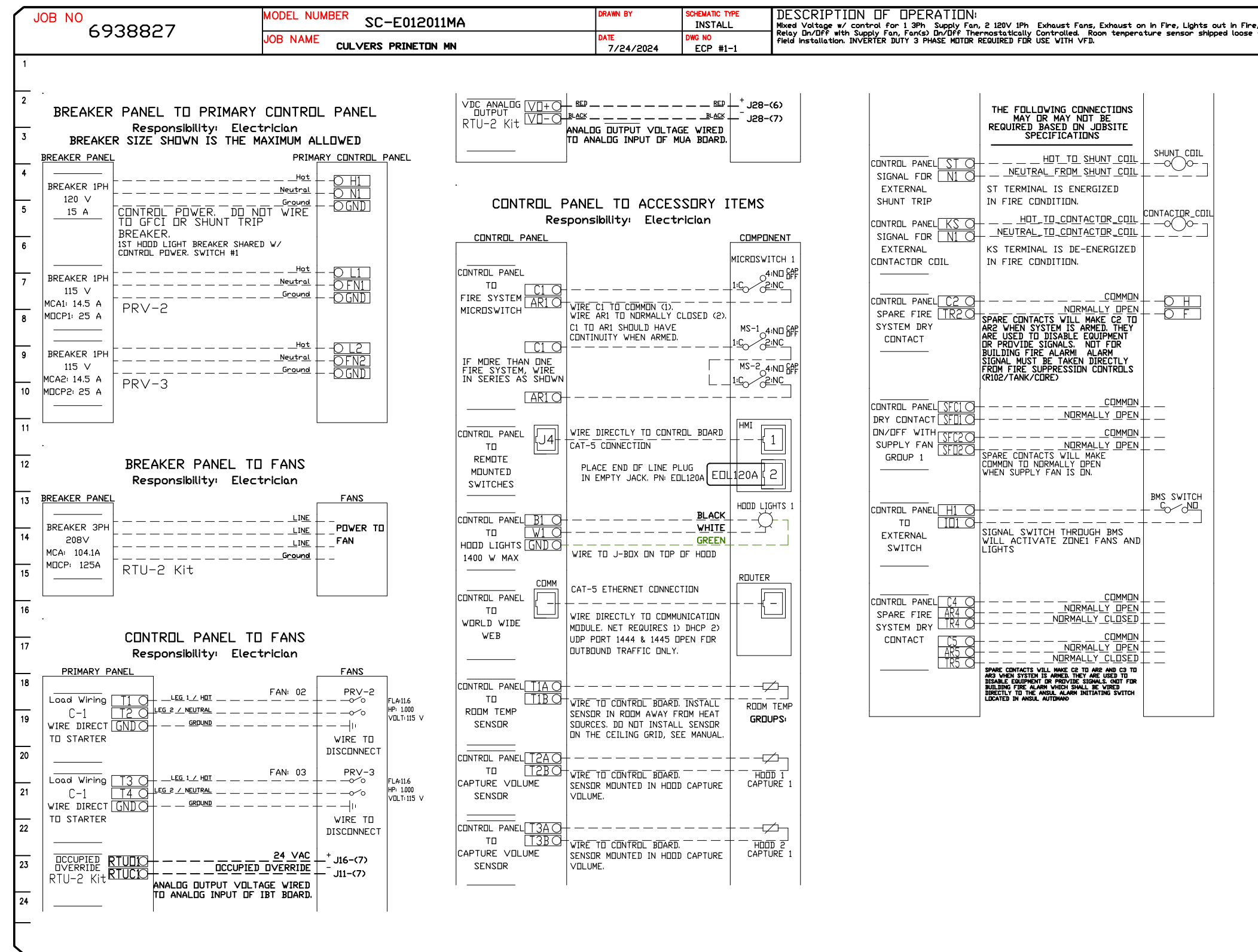


CASlink Monitor and Control

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



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6938827

DRAWN BY: studdy jr

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

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10

DUCTWORK #1 PARTS - JOB#6938827 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

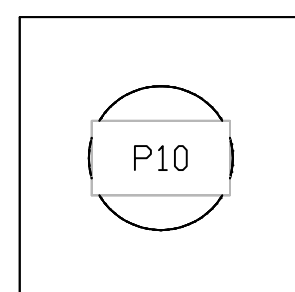
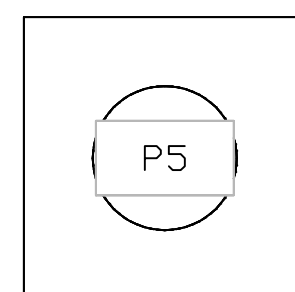
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

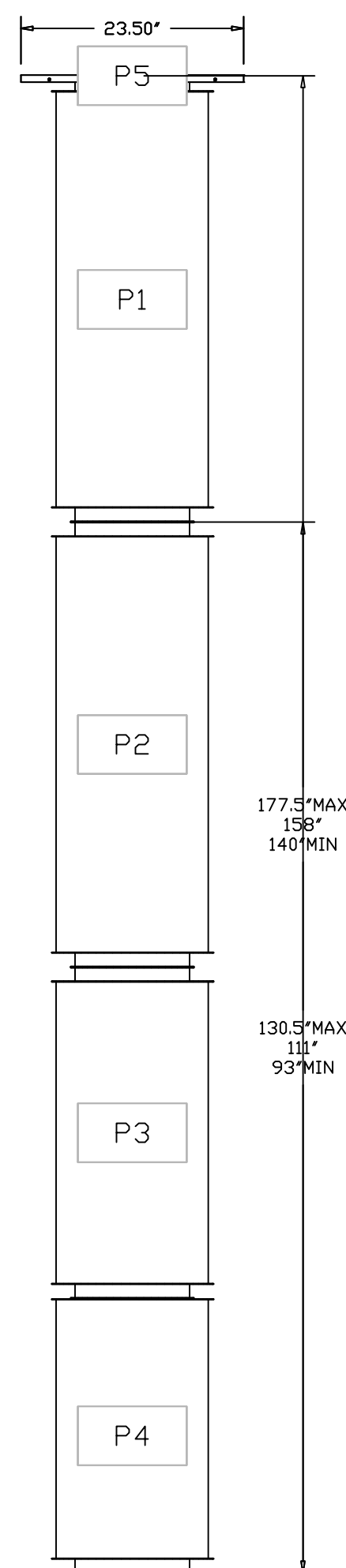
VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16')	20'	24'	24'
2R (18')	18'	24'	24'
3R & 3Z (5'-24')	10'	24'	24'
3Z (26' -36')	10'	20'	20'

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

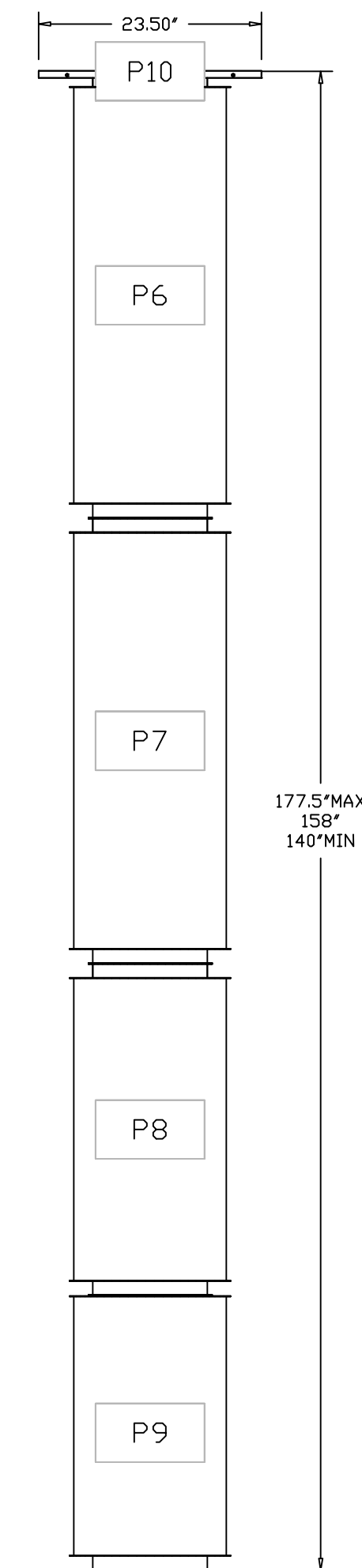
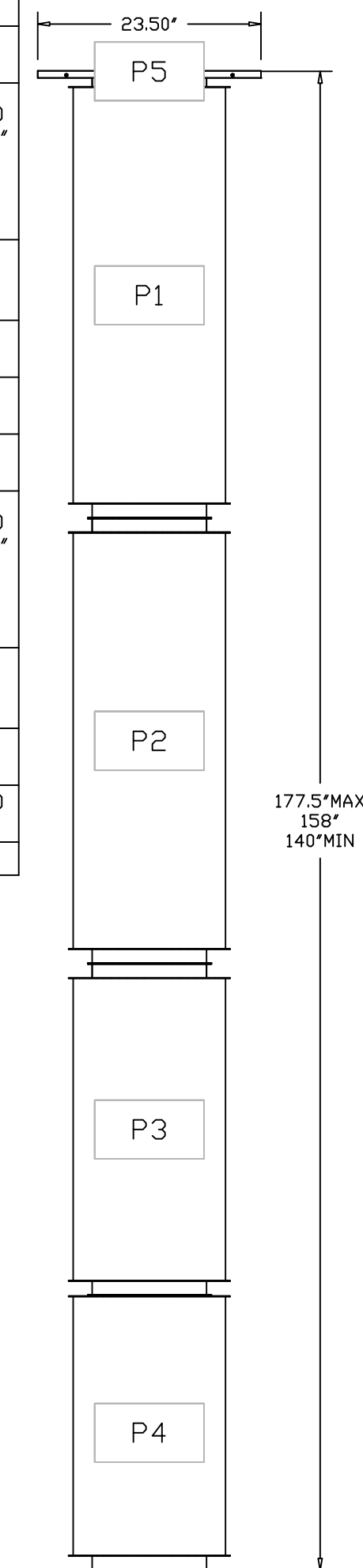
DUCTWORK #1 TOP VIEW GREASE DUCT



DUCTWORK #1 SIDE VIEW GREASE DUCT



DUCTWORK #1 FRONT VIEW GREASE DUCT



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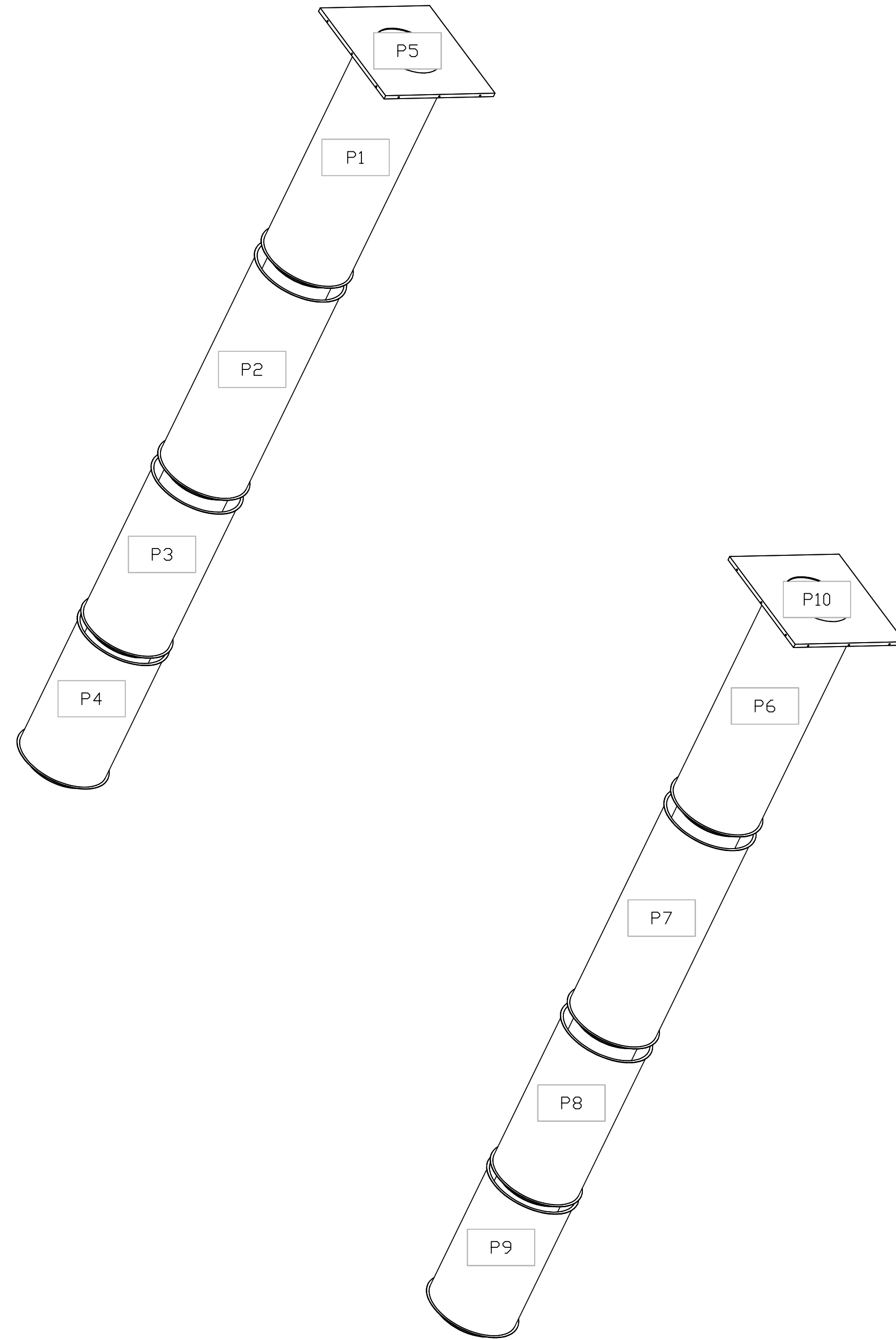
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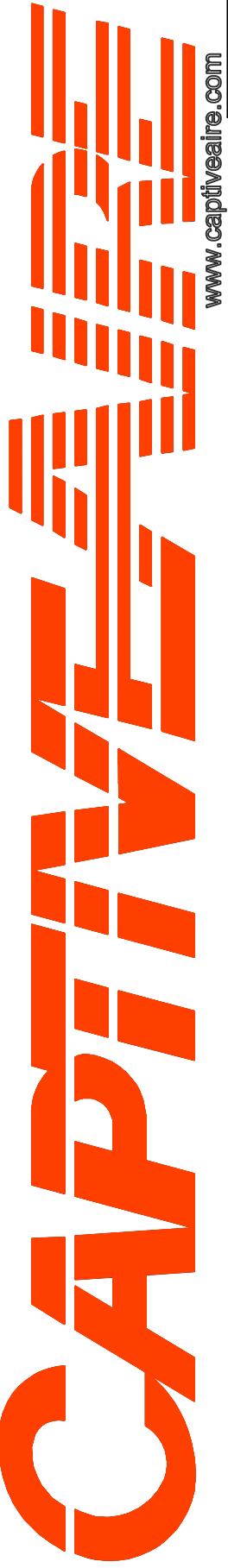
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DUCTWORK #1 SE VIEW
GREASE DUCT



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12