



SUBMITTAL

PROJECT: CMS – NEW ELON / HAWK / POLO RIDGE
RELIEF ELEMENTARY SCHOOL
CHARLOTTE, NC

ENGINEER: OPTIMA ENGINEERING
CHARLOTTE, NC

CONTRACTOR: SUPERIOR MECHANICAL SYSTEMS
CHARLOTTE, NC

**EQUIPMENT:
SPEC SECTION:** KITCHEN HOODS BY CAPTIVE-AIRE SYSTEMS
233813 – COMMERCIAL KITCHEN HOODS

SUPPLIER: HAHN-MASON AIR SYSTEMS, INC.
4901 DWIGHT EVANS ROAD, STE. 120
CHARLOTTE, NORTH CAROLINA 28217

SUBMITTED BY:

A handwritten signature in black ink that reads "David Petrovski". The signature is written in a cursive, flowing style.

David Petrovski

HAHN-MASON AIR SYSTEMS, INC.
P.O. BOX 31248
CHARLOTTE, NC 28231-1248

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03/31/2022 11:03 AM

FOR QUESTIONS, CALL THE
Charlotte / Triad Mechanical
REGION 132
PHONE: (704) 280-4570
EMAIL: reg132@captivair.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5315088

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP
1	KH-1	6024 ND-2-PSP-F	CAPTIVEAIRE	11' 6"	600 DEG	I	HEAVY	225	2588	10'	24"	4'	2588	1553	-0.388'	2070	304 SS WHERE EXPOSED	ALONE FRONT
2	KH-2	6024 ND-2-PSP-F	CAPTIVEAIRE	10' 6"	600 DEG	I	HEAVY	225	2362	10'	22"	4'	2362	1546	-0.376'	1890	304 SS WHERE EXPOSED	ALONE BACK

HOOD INFORMATION

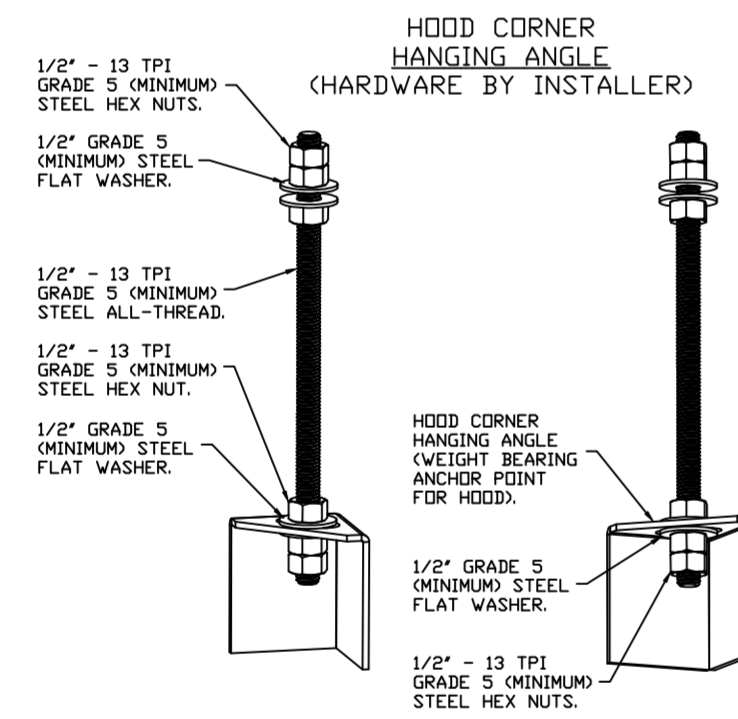
HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE			MODEL #	QUANTITY
1	KH-1	SS BAFFLE WITH HANDLES	8	20"	16"	30%	3	RECESSED ROUND	NO						YES	785 LBS	
2	KH-2	SS BAFFLE WITH HANDLES	7	20"	16"	30%	3	RECESSED ROUND	NO	RIGHT	12"x60"x24"	TANK FS	4.0/4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1068 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 17.00' HIGH FRONT, LEFT, RIGHT.
		BACK STANDOFF (FLAT) 12" WIDE 138' LONG.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
2	KH-2	LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.
		FIELD WRAPPER 17.00' HIGH FRONT, LEFT, RIGHT.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 304 SS.

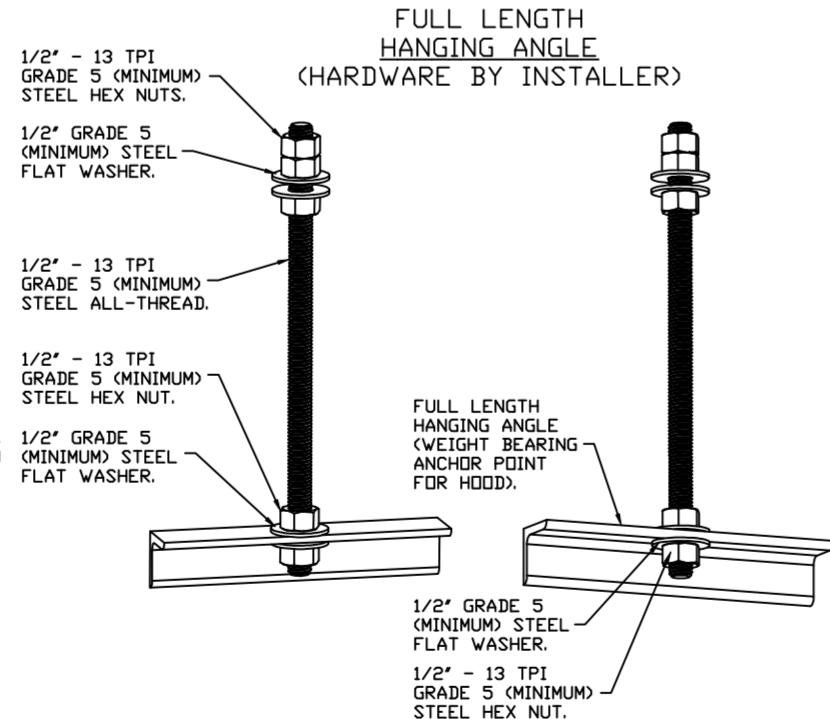
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	KH-1	Front	138'	16'	6'	MUA	12"	28"		690	0.180"
						MUA	12"	28"		690	0.180"
						MUA	12"	28"		690	0.180"
2	KH-2	Front	138'	16'	6'	MUA	8"	36"		630	0.177"
						MUA	8"	36"		630	0.177"
						MUA	8"	36"		630	0.177"



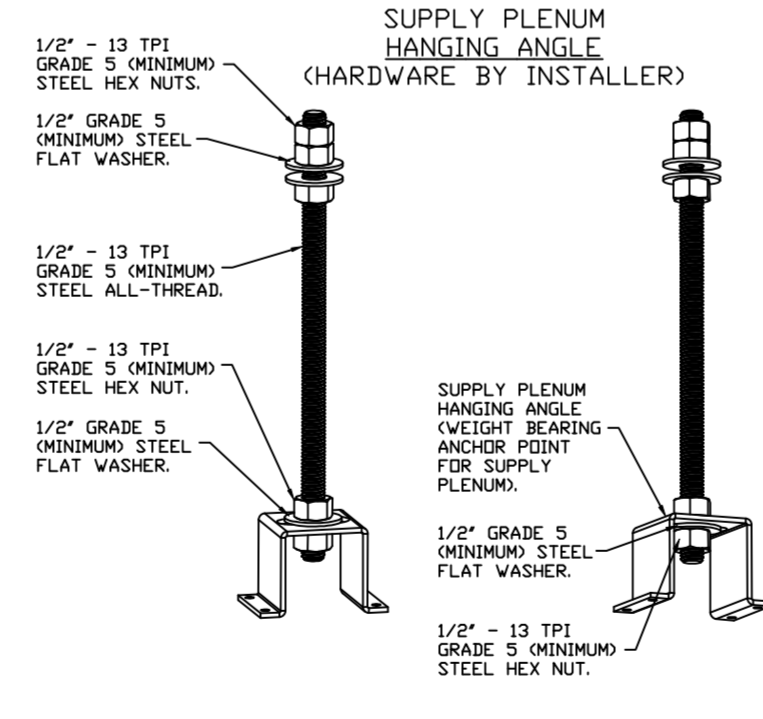
ASSEMBLY INSTRUCTIONS

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.



ASSEMBLY INSTRUCTIONS

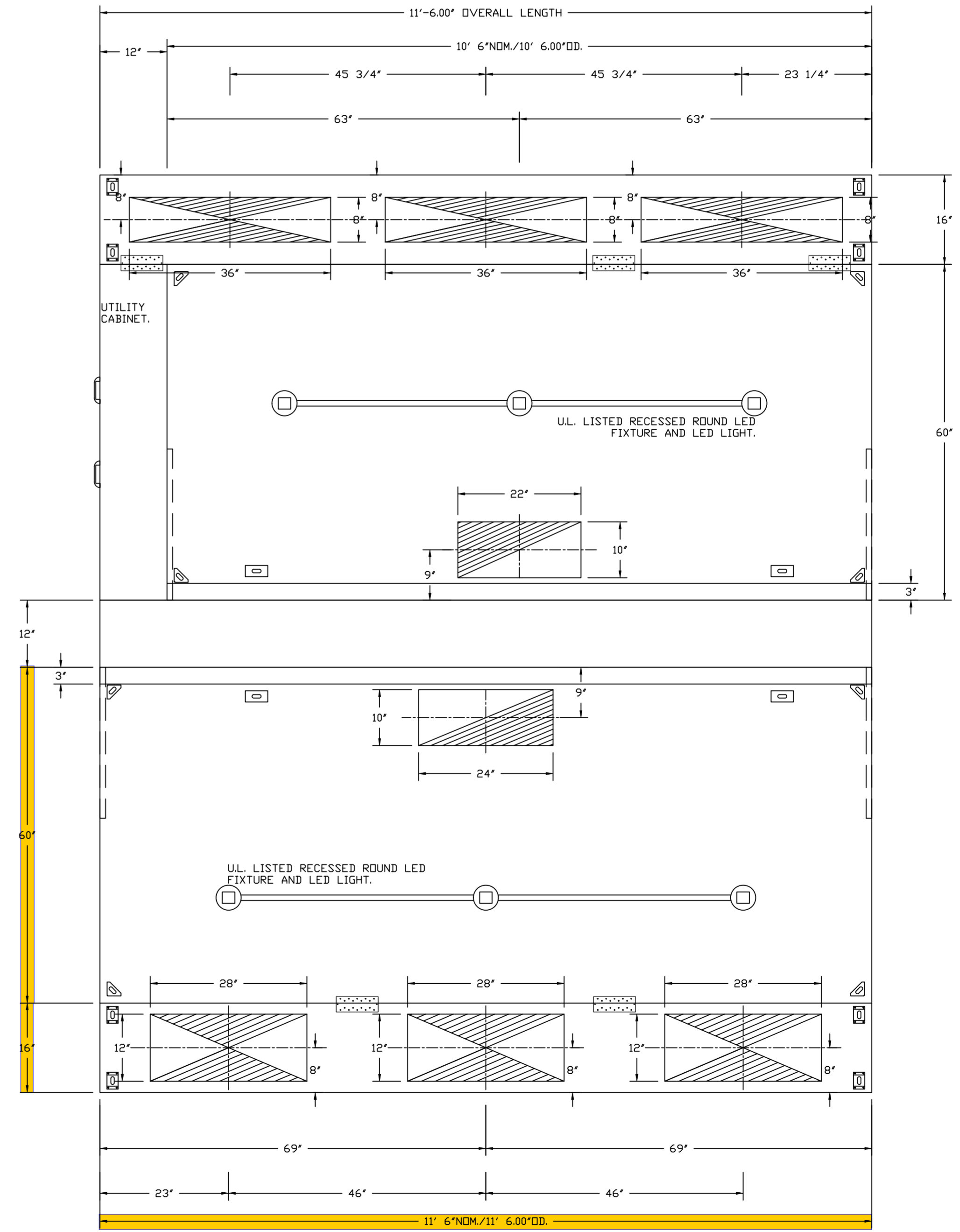
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ASSEMBLY INSTRUCTIONS

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 ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

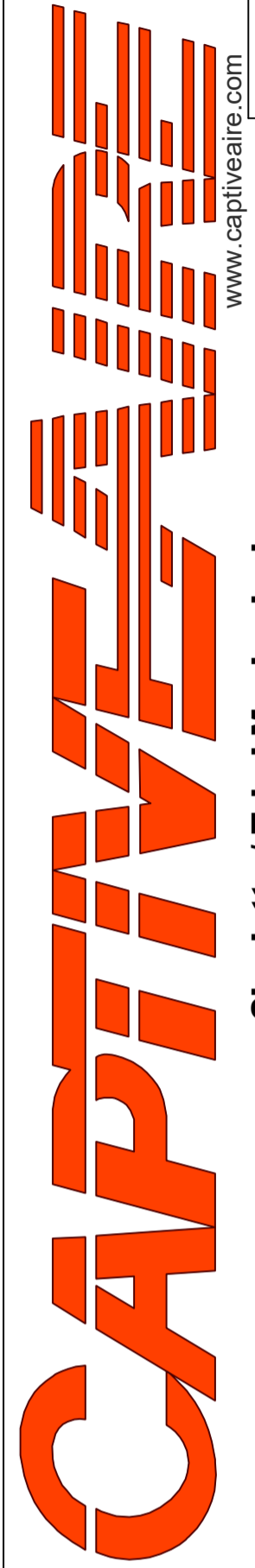
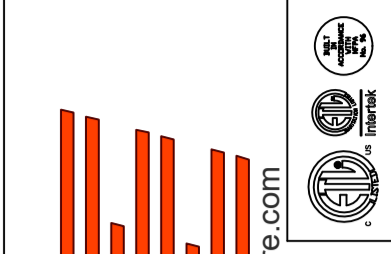
PLAN VIEW - HOOD #2 (KH-2)
10' 6.00" LONG 6024ND-2-PSP-F



PLAN VIEW - HOOD #1 (KH-1)
11' 6.00" LONG 6024ND-2-PSP-F

REVISIONS

DESCRIPTION	DATE



www.captivair.com

Charlotte / Triad Mechanical

2520 South Blvd, Charlotte, NC, 28203 PHONE: (704) 280-4570 EMAIL: reg132@captivair.com

Elon/Hawk/Polo Ridge Relief ES
3301 Country Club Dr,
Charlotte, NC, 28205

DATE: 3/25/2022

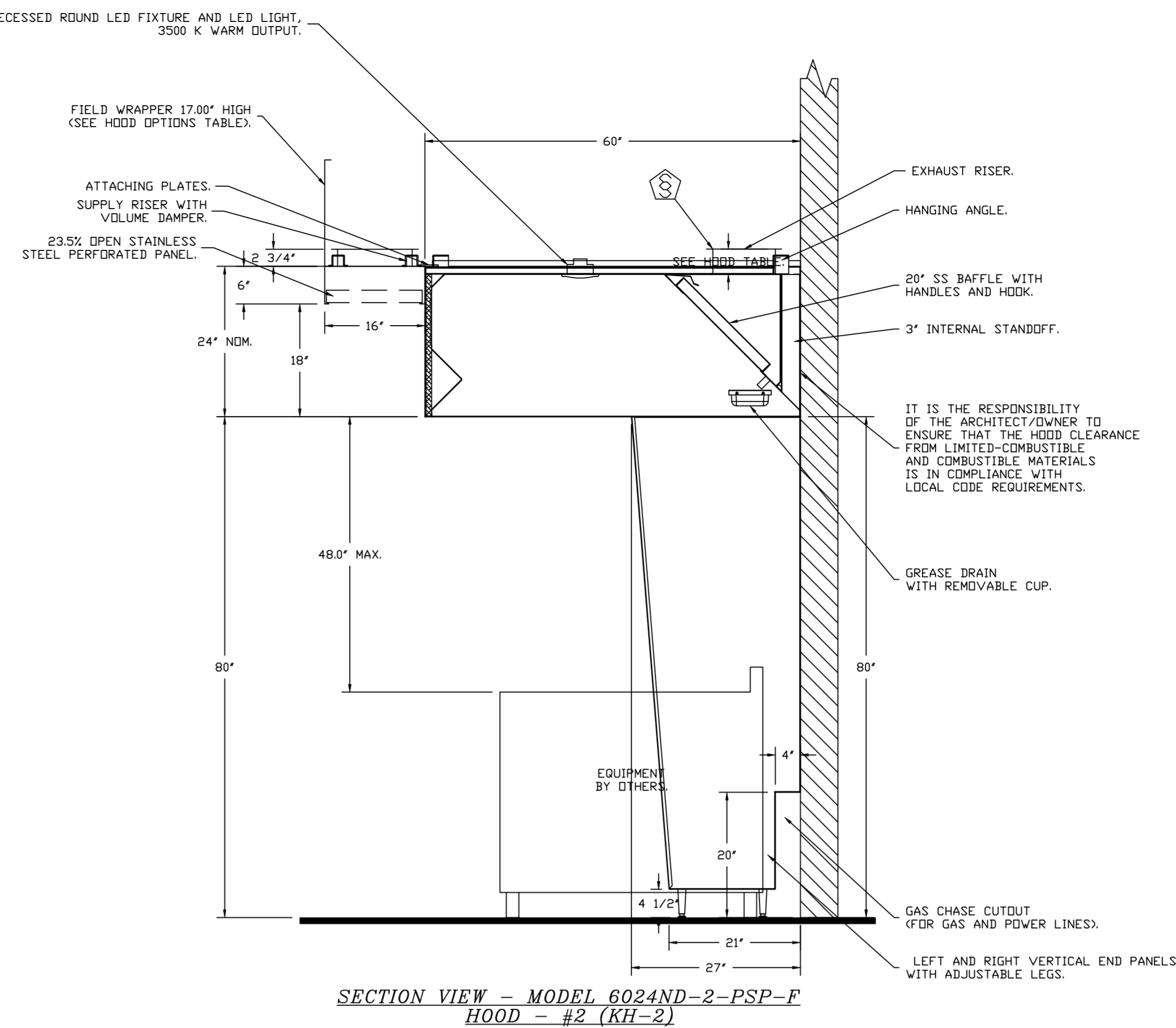
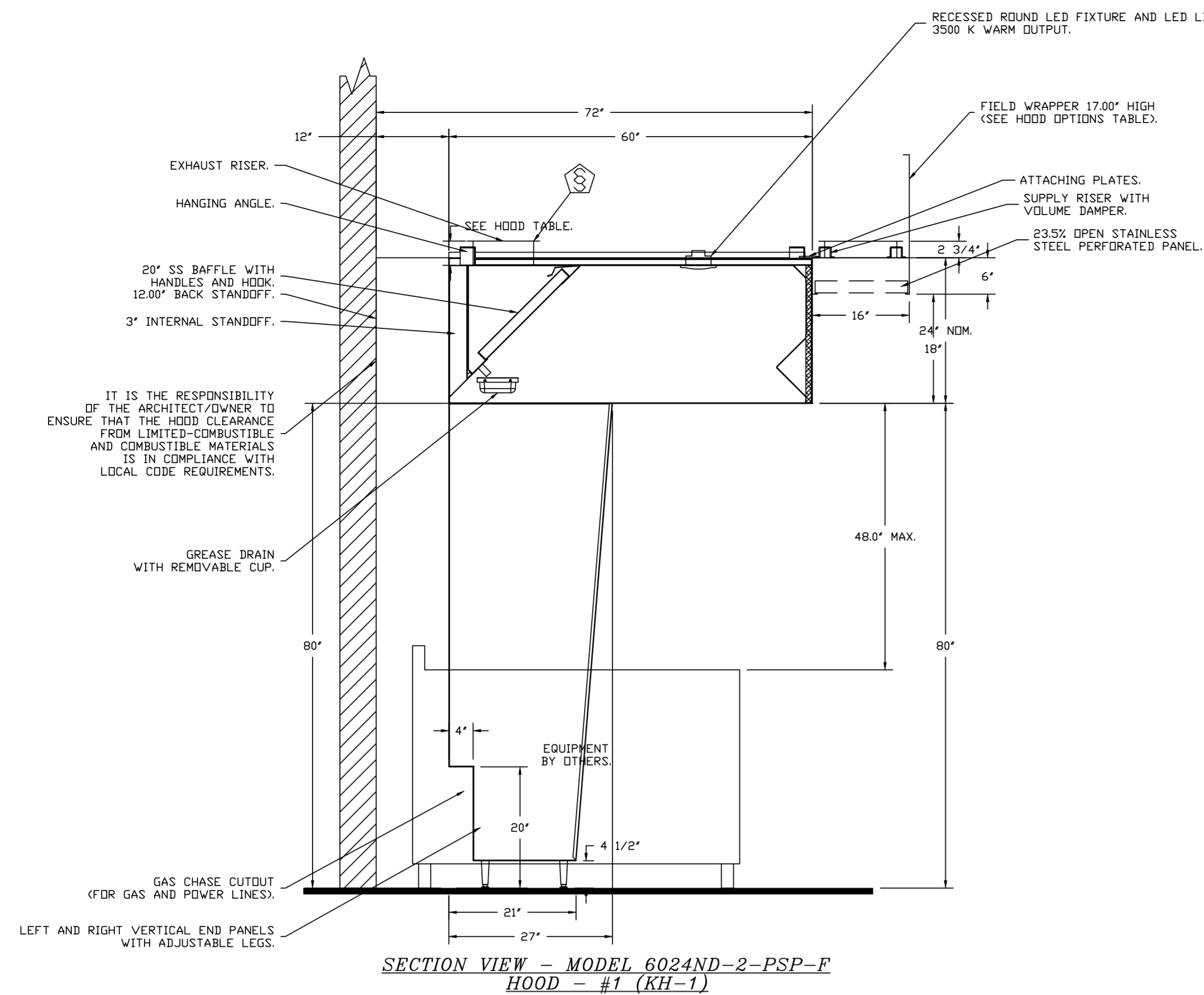
DWG.#:
5315088

DRAWN BY: WRK

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

MASTER DRAWING

SHEET NO.
1



FIRE SYSTEM INFORMATION - JOB#5315088

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	24	FIRE CABINET RIGHT	RIGHT, HOOD 2

GAS VALVE(S)

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

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	12	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - SLP00N-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

ADDITIONAL PARTS TO BE DETERMINED...

SYSTEM DESIGN VERIFICATION (SDV)

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

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

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

REVISIONS	
DESCRIPTION	DATE

Charlotte / Triad Mechanical
 2520 South Blvd, Charlotte, NC, 28203 PHONE: (704) 280-4570 EMAIL: reg.132@captivaire.com

Elon/Hawk/Polo Ridge Relief ES
 3301 Country Club Dr,
 Charlotte, NC, 28205

DATE: 3/25/2022
DWG.#: 5315088
DRAWN BY: WRK
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
2

SPECIFICATIONS

TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 600°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
1. "Exhaust Hood Without Exhaust Damper."
 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

- A. Construction shall be type 304 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. Recessed round LED fixture and LED light, 3500K Warm output.

2.4 FILTERS

- A. Kleen-Gard Stainless Steel Baffle Filter with Handles and Bottom Hanging Hook, UL Classified.

2.5 OPTIONS

- A. Fire Suppression System: UL 300 fire suppression system.
- B. Optional perforated supply plenum shall provide make-up air discharged below the cooking equipment.
1. Perforated diffuser plates shall be included in the design to provide even air distribution.
 2. Unexposed surfaces shall be constructed of aluminized steel. Plenum shall be insulated to prevent condensation.
 3. Perforated Supply Plenum (PSP)
- C. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

- A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:
1. Vertical End Panel
- B. Standoff(s) selected:
1. Back Standoff
- C. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
1. Wrapper
- D. Miscellaneous option(s) selected:
1. Riser Sensor Install - Sensor set-up for 6" plenum.

PART 3 - EXECUTION

3.1 EXAMINATION

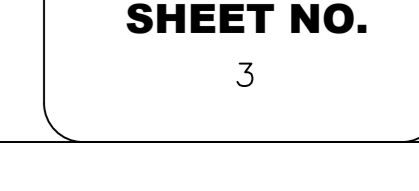
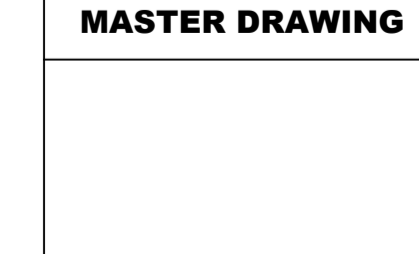
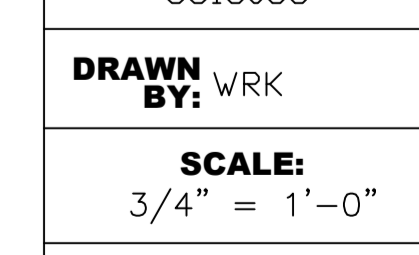
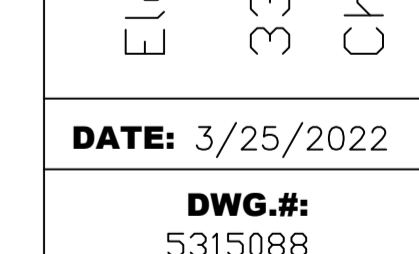
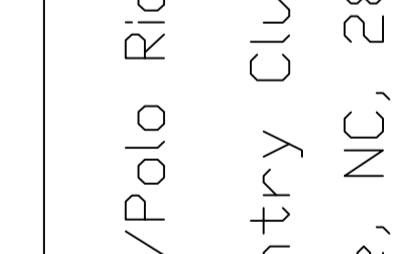
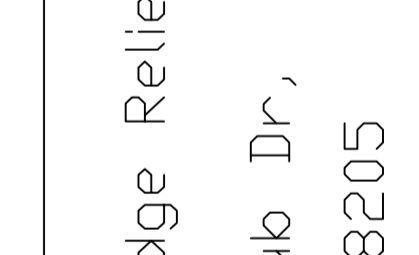
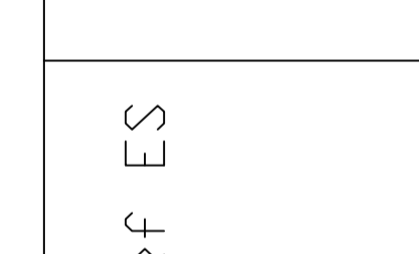
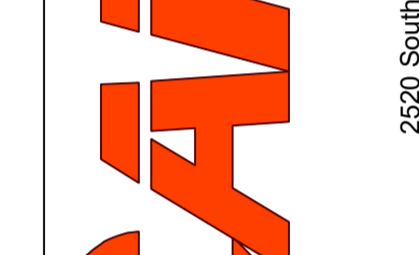
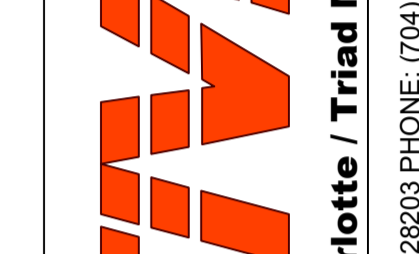
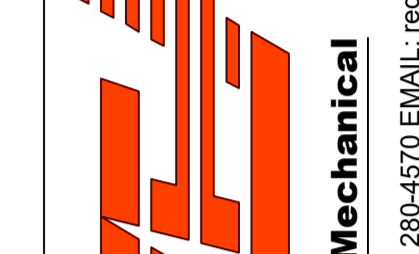
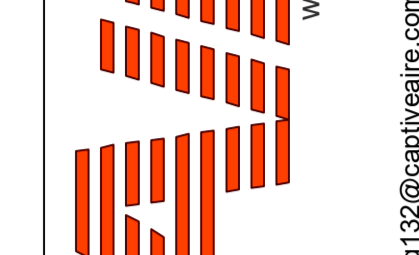
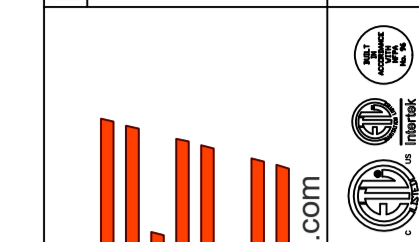
- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

REVISIONS

DESCRIPTION	DATE
Δ	
Δ	
Δ	
Δ	



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BY: WRKSCALE:
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MASTER DRAWING

SHEET NO.

3

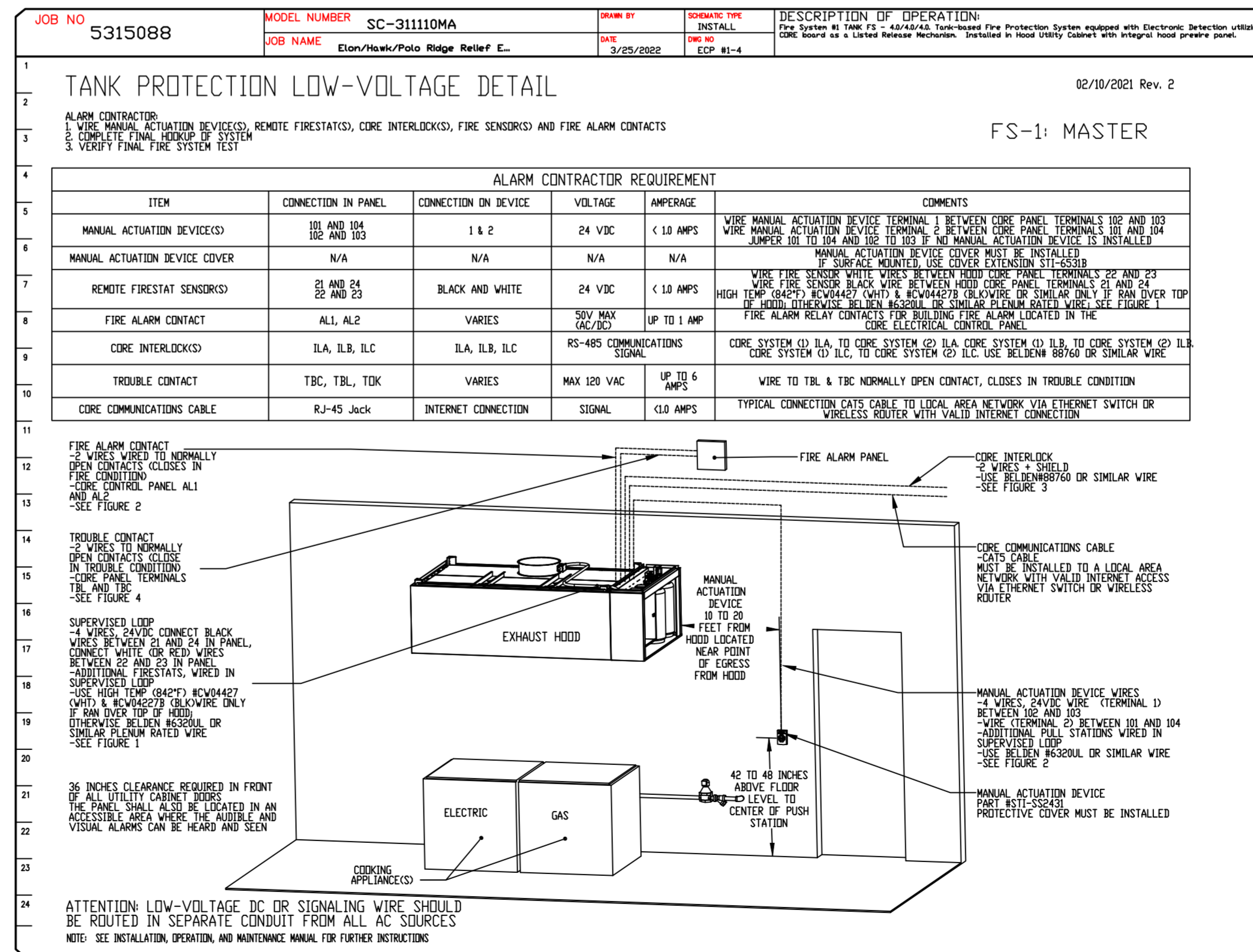
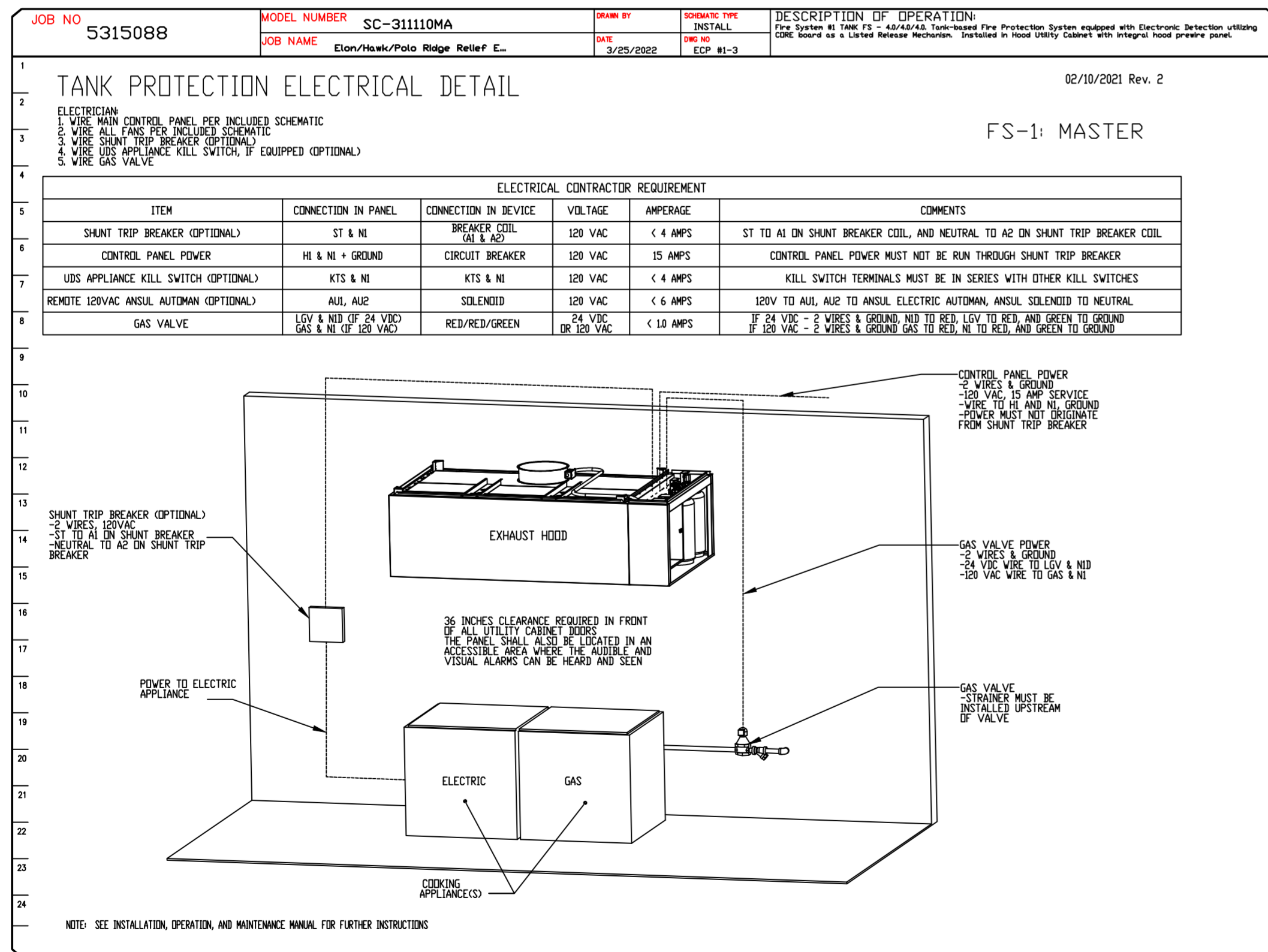
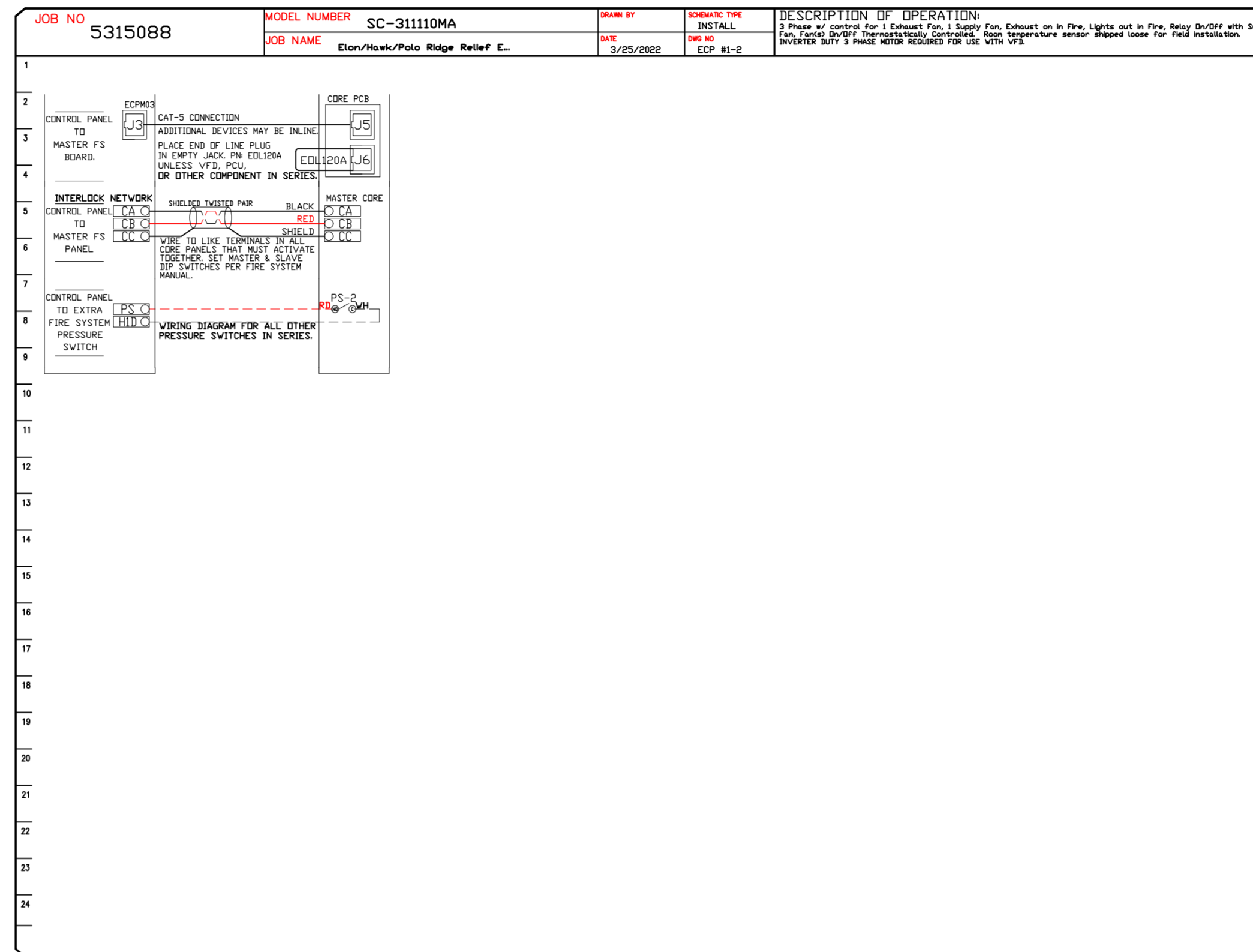
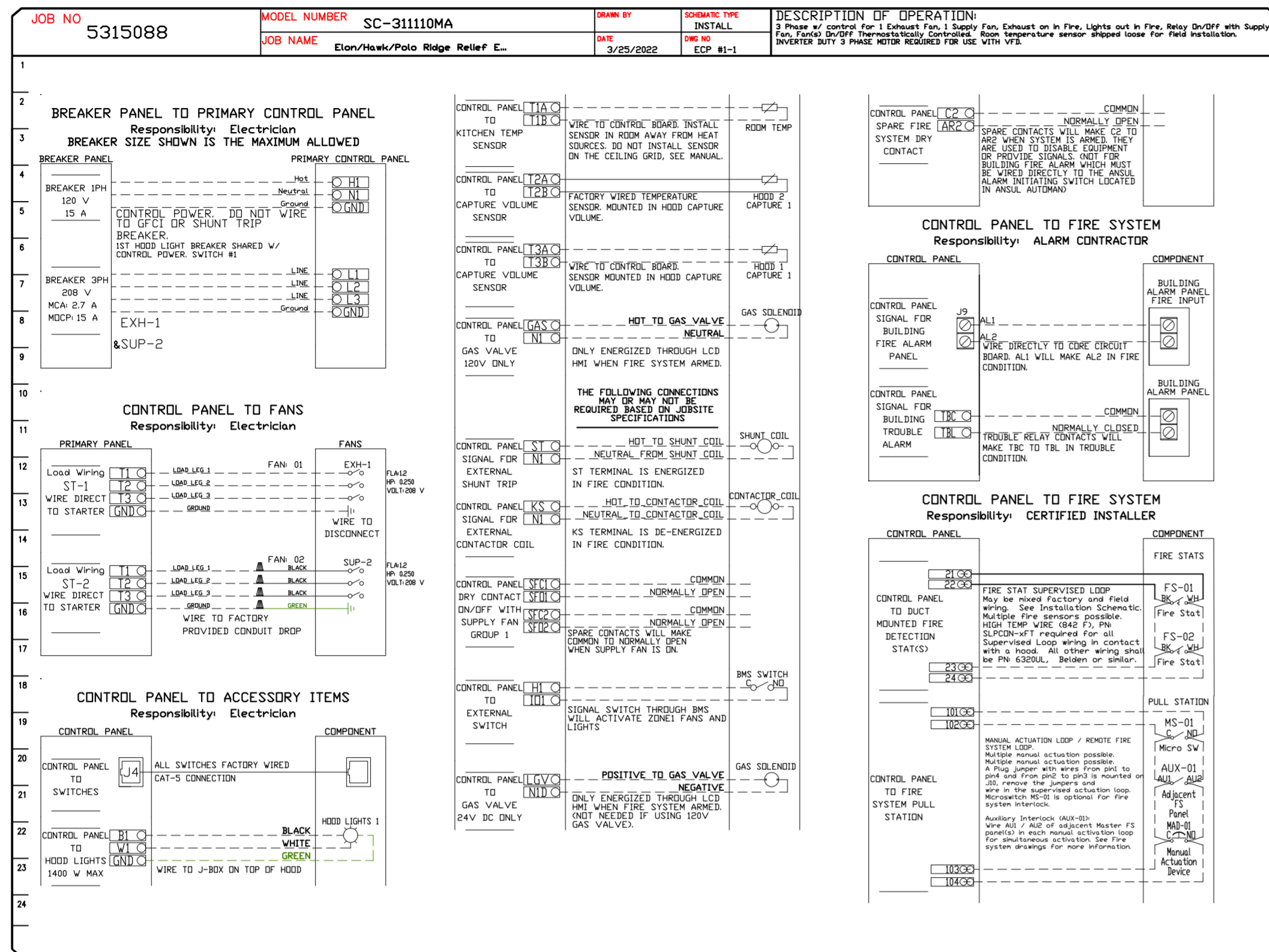
www.captive.com

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ELECTRICAL PACKAGE - JOB#5315088

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	HP	VOLT	FLA
1		SC-31110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT HOOD # 2	1 LIGHT 1 FAN	SMART CONTRLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EXHAUST	3	0.250	208	1.2
							SUPPLY	3	0.250	208	1.2



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CAPTIVE

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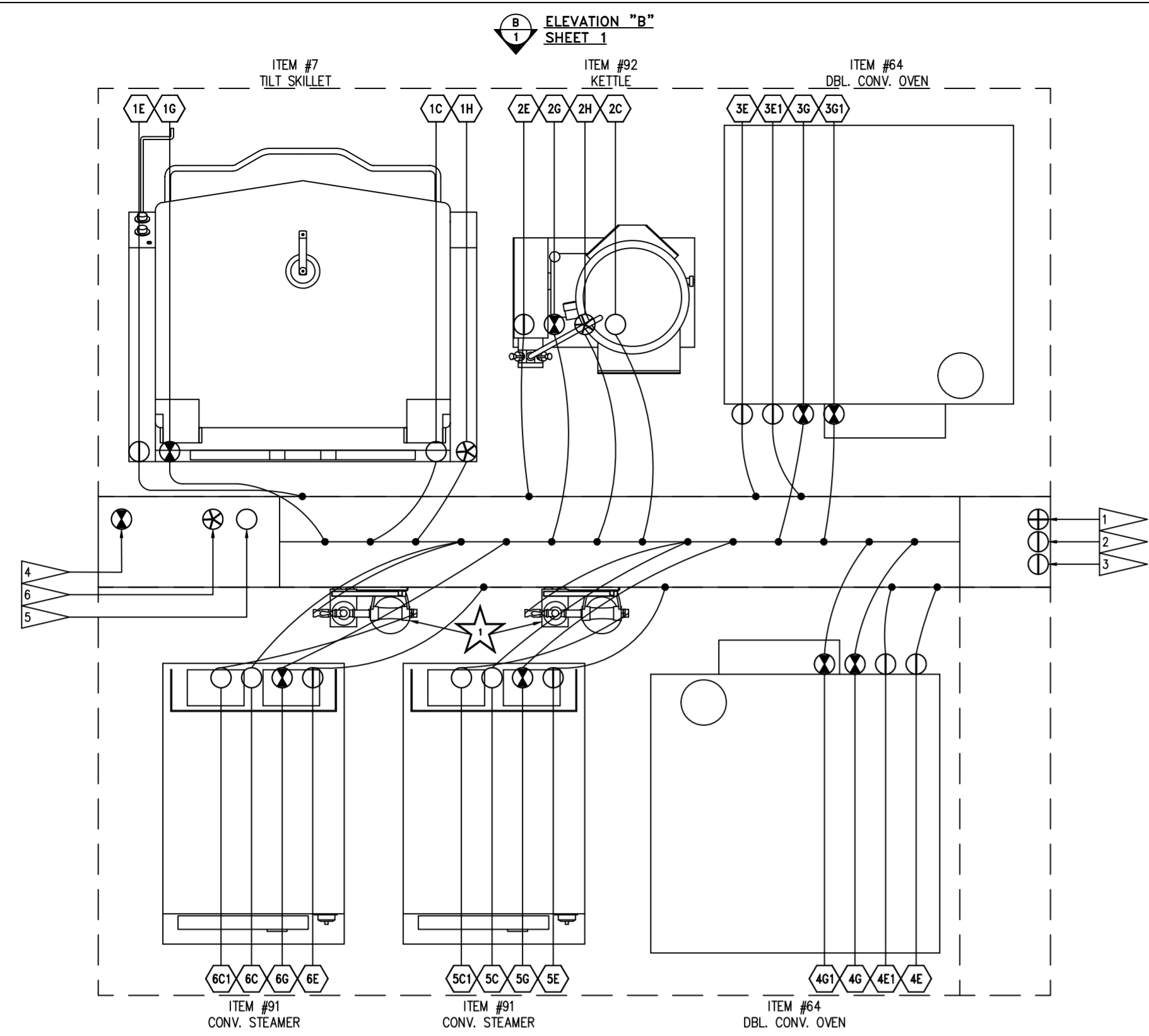
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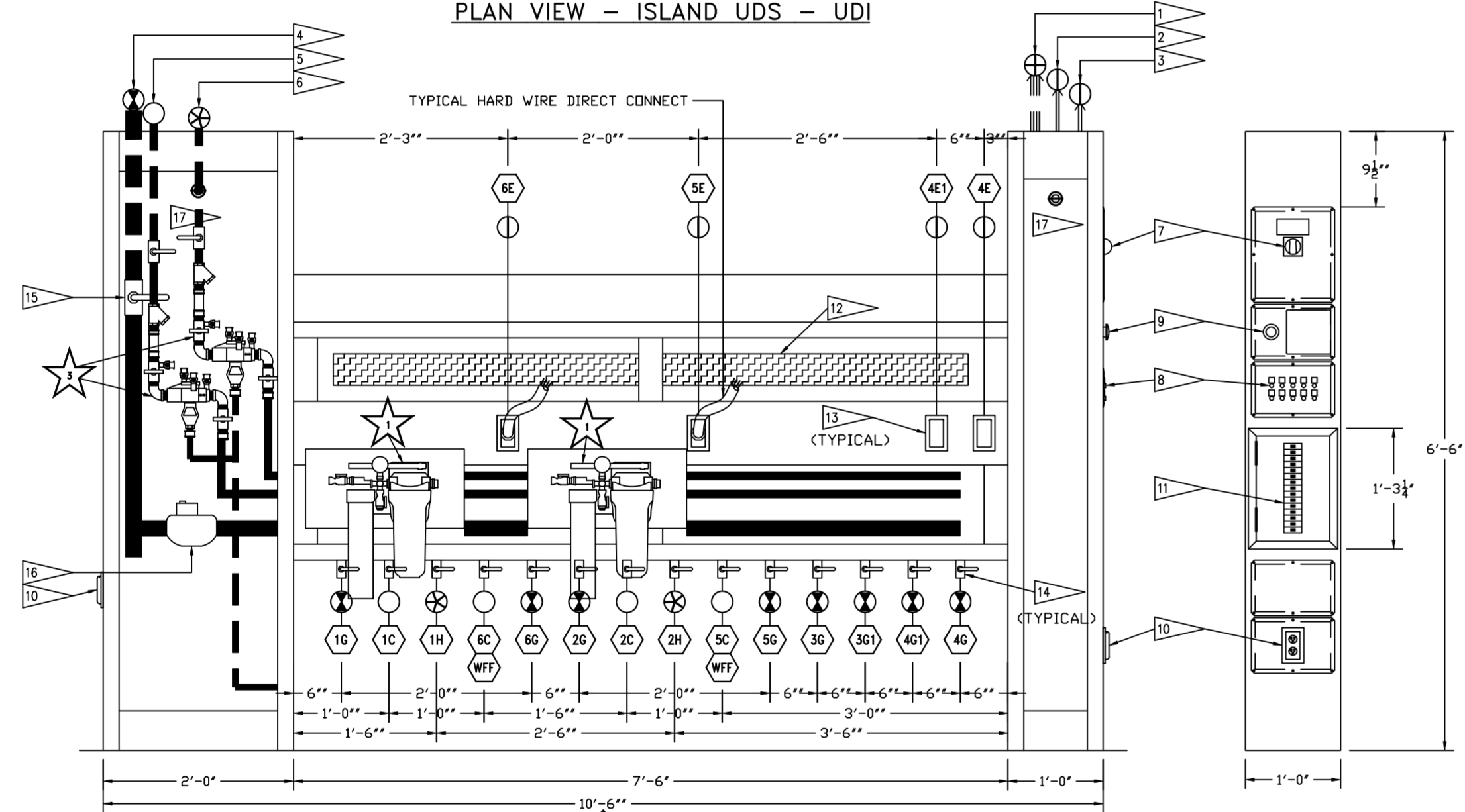
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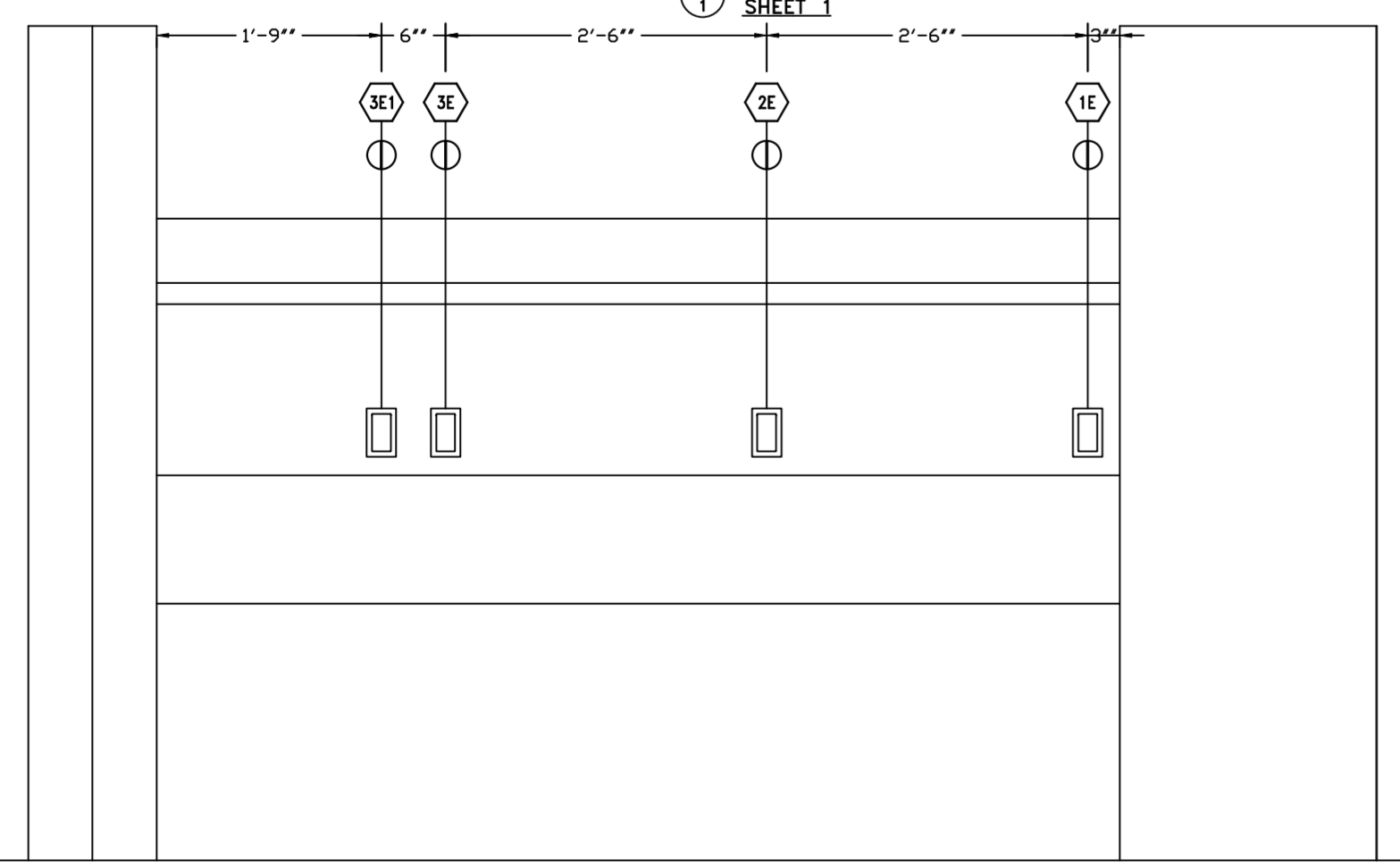
SHEET NO. 4



ELEVATION "A" SHEET 1
PLAN VIEW - ISLAND UDS - UDI



ELEVATION "A" SHEET 1



ELEVATION "B" SHEET 1

DRAWING NUMBER	JOB NAME	DATE
	JOB NUMBER	DRAWN BY

CONTROL INPUT (20VAC HI-LINE, NI-NEUTRAL ISA BKR - DO NOT WIRE TO SHUNT TRIP BREAKER HI, NI TERMINALS ARE WIRED TO LIKE TERMINALS ON ELECTRICAL CONTROL PACKAGE IF PRESENT)

ALL 120 VOLT CONTROL WIRING 14AWG

WIRE TO LIKE TERMINAL IN PREWIRE
NOTE: MUST ENABLE GAS OPTION IN ECFMOD HOOD CONTROL BOARD.

WIRE TO LIKE TERMINAL IN PREWIRE
NOTE: MUST ENABLE KTS OPTION IN ECFMOD HOOD CONTROL BOARD.

WIRE TO LIKE TERMINAL IN PREWIRE
NOTE: IF REQUIRED, SHUNT TRIP CAN ENABLE/DISABLE WITH FAN OPERATION. ENABLE ST FOLLOWING FAN OPTION FOR THIS FEATURE (DEFAULT OFF). ST WILL REQUIRE MANUAL RESET EACH TIME.

INSTALLER OFFICE

GAS WITH KILL SWITCH

PREWIRE CONNECTION

COMPONENT IDENTIFICATION	LOCATION
KSI	KILL SWITCH (TWIST TO RELEASE) NC CONTACTS [33][34]
TS-1	DOOR TAPESWITCH ASHCZ03LAC [34]
STBI	FIRST VOLTAGE SHUNT TRIP BREAKER [34][35]
STB	BRANCH BREAKER SEE SCHEDULE FOR RATINGS [34][42]

MS-1 MicroSwitch
C-RD
NO-BK
NC-BRE

TR: TRIPPER, AR: ARMED, C: COMMON

SECOND VOLTAGE SHUNT TRIP BREAKER

SHUNT TRIP BREAKER CONTACTOR

SERVICE CONNECTION

SERVICE CONNECTION

SERVICE CONNECTION

SERVICE NEUTRAL CONNECTION

TYPICAL BRANCH CIRCUIT CONNECTIONS
SEE SCHEDULE FOR COMPONENT RATINGS

TYPICAL 208 3 PHASE OUTLET

TYPICAL SINGLE PHASE 120 VOLT OUTLET WHEN BUSS IS 208 3 PHASE

<p>NOTES</p> <p>----- FIELD WIRING</p> <p>INTERNAL WIRING</p> <p>TERMINAL IN PANEL</p> <p>TERMINAL IN PANEL AND REMOTE</p> <p>DRAWING SHOWN DE-ENERGIZED.</p>	<p>WIRE COLOR</p> <table style="width:100%;"> <tr> <td>BK - BLACK</td> <td>YW - YELLOW</td> </tr> <tr> <td>BL - BLUE</td> <td>GR - GREEN</td> </tr> <tr> <td>BR - BROWN</td> <td>GY - GRAY</td> </tr> <tr> <td>OR - ORANGE</td> <td>OR/BL - ORANGE/BLUE</td> </tr> <tr> <td>RD - RED</td> <td>(STRIPES)</td> </tr> <tr> <td>WH - WHITE</td> <td>BL/RD - BLUE/RED</td> </tr> <tr> <td>PR - PURPLE</td> <td>(STRIPES)</td> </tr> <tr> <td>PK - PINK</td> <td>RD/GRN - RED/GREEN</td> </tr> <tr> <td></td> <td>(STRIPES)</td> </tr> </table>	BK - BLACK	YW - YELLOW	BL - BLUE	GR - GREEN	BR - BROWN	GY - GRAY	OR - ORANGE	OR/BL - ORANGE/BLUE	RD - RED	(STRIPES)	WH - WHITE	BL/RD - BLUE/RED	PR - PURPLE	(STRIPES)	PK - PINK	RD/GRN - RED/GREEN		(STRIPES)
BK - BLACK	YW - YELLOW																		
BL - BLUE	GR - GREEN																		
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RD - RED	(STRIPES)																		
WH - WHITE	BL/RD - BLUE/RED																		
PR - PURPLE	(STRIPES)																		
PK - PINK	RD/GRN - RED/GREEN																		
	(STRIPES)																		

1. INDICATOR LAMP LEADS IN EXCESS OF 10' MUST BE FUSED WITHIN THE FIRST 10' OF THE TAP OFF THE BREAKER OR OUTLET, 14AWG.
2. SPIRAL WRAP SHALL NOT BE USED

REVISIONS	
DESCRIPTION	DATE

Charlotte / Triad Mechanical

2520 South Blvd, Charlotte, NC, 28203 PHONE: (704) 280-4570 EMAIL: reg.132@captiveme.com

Elon/Hawk/Polo Ridge Relief ES

3301 Country Club Dr,

Charlotte, NC, 28205

DATE: 3/25/2022
DWG.#: 5315088
DRAWN BY: WRK
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
6

IMPORTANT SPECIAL UDS PARTS/NOTES	
☆	TWO (2) EV-9797-50 WATER FILTERS MOUNTED TO RACEWAY.
☆	
☆	TWO (2) 3/4" WATTS BACK FLOW PREVENTER, AIR GAP & DRAIN TO BE SUPPLIED BY CAPTIVE-AIRE SYSTEMS.

UDS CONSTRUCTION TO BE 18 GA., TYPE 304 STAINLESS STEEL

UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 891 CERTIFIED TO CAN/CSA C22.2 No. 31-M89

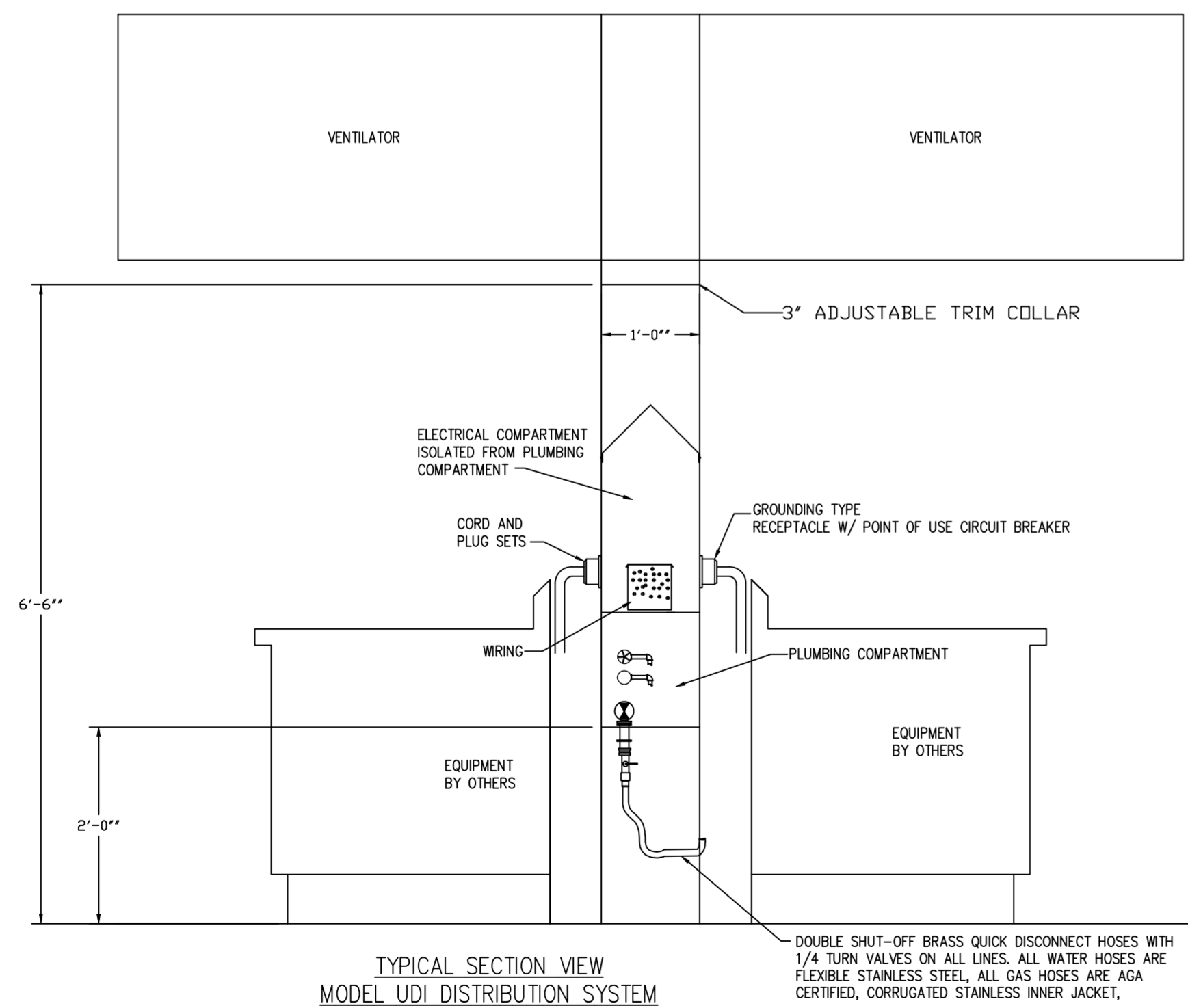
PRIOR TO SCHEDULING UDS FOR PRODUCTION PLEASE PROVIDE APPROVED SUBMITTAL CUTSHEETS ON FINAL KITCHEN EQUIPMENT ASSOCIATED WITH THE UDS (NEW & USED) SO THAT CONNECTION SIZES, TYPES AND LOCATIONS CAN BE VERIFIED

ANY CHANGES TO SUBMITTAL DRAWING MAY AFFECT PRICE AND PRODUCTION TIME PLEASE FORWARD CHANGES ASAP

-----NOTE-----
 NEC REQUIRES 36" OF FIELD CLEARANCE IN FRONT OF CIRCUIT BREAKERS FOR ACCESS

SYMBOL SCHEDULE	
○	COLD WATER
⊗	HOT WATER
●	FILTERED WATER
⊕	NATURAL GAS
⊖	PROPANE
⊕	120 VAC 1 PHASE
⊕	208 VAC 1 PHASE
⊕	208 VAC 3 PHASE
⊕	480 VAC 3 PHASE
⊕	STEAM SUPPLY
⊕	STEAM CONDENSATE RETURN

- STANDARD FLAG NOTES**
- ELECTRICAL SERVICE FROM ABOVE, SEE SCHEDULE FOR DETAILS. PROVIDED BY ELECTRICAL CONTRACTOR.
 - 120V/1PH/15A DEDICATED ELECTRICAL CIRCUIT INTO UDS TERMINALS 'HL, NI' FOR FUEL/SHUNT CONTROL. (PROVIDED BY ELECTRICAL CONTRACTOR) SEE SCHEMATIC BELOW.
 - 3-WIRE ELECTRICAL CIRCUIT FROM HOOD CONTROL PACKAGE TERMINALS 'GAS, ST & KTS' TO UDS LIKE TERMINALS 'GAS, ST & KTS' FOR UDS SHUT DOWN IN A FIRE CONDITION. (PROVIDED BY ELECTRICAL CONTRACTOR) SEE SCHEMATIC BELOW.
 - SINGLE GAS SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)
 - COLD WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)
 - HOT WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)
 - SERVICE MAIN BREAKER W/SHUNT TRIP AND RESET HANDLE, SEE SCHEDULE FOR DETAILS.
 - STATUS INDICATOR LIGHTS.
 - EMERGENCY KILL SWITCH.
 - DCO RECEPTACLE W/ BREAKER & WEATHERPROOF COVER.
 - ELECTRICAL LOAD CENTER WITH INDIVIDUAL CIRCUIT BREAKERS.
 - ELECTRICAL WIRING TO APPLIANCES.
 - ELECTRICAL CONNECTION W/WEATHERPROOF COVER AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET.
 - PLUMBING CONNECTION AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET.
 - MANUAL SHUT OFF VALVE.
 - 120V ELECTRICAL GAS VALVE.
 - REMOVABLE ACCESS DOORS.



UTILITY DISTRIBUTION SYSTEM EQUIPMENT SCHEDULE																							
EQUIPMENT				ELECTRICAL				CIRCUIT BREAKER		RECEPTACLE		GAS		WATER		STEAM		CONNECTION		NOTES			
CONN.#	ITEM	DESCRIPTION	MANUFACTURER	MODEL #	KW.	AMPS	HP	VOLT	PH	AMPS	POLES	PART #	SIZE	MBH	HOT	COLD	SUPPLY	COND. RETURN	LBS/HR		TYPE	LENGTH	
1E	7	TILT SKILLET	-	EXISTING	0.2	1.8	-	120	1	20	1	DR20	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER	
1G	7	TILT SKILLET	-	EXISTING	-	-	-	-	-	-	-	-	3/4"	91	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
1C	7	TILT SKILLET	-	EXISTING	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
1H	7	TILT SKILLET	-	EXISTING	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
2E	92	KETTLE	CLEVELAND	KGT6T	0.6	5.0	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER
2G	92	KETTLE	CLEVELAND	KGT6T	-	-	-	-	-	-	-	-	3/4"	34	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
2H	92	KETTLE	CLEVELAND	KGT6T	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
2C	92	KETTLE	CLEVELAND	KGT6T	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
3E	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	1.0	8.0	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER
3E1	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	1.0	8.0	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER
3G	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	-	-	-	-	-	-	-	-	3/4"	45	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
3G1	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	-	-	-	-	-	-	-	-	3/4"	45	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
4E	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	1.0	8.0	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER
4E1	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	1.0	8.0	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	SUPPLIED	-	GFI BREAKER
4G	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	-	-	-	-	-	-	-	-	3/4"	45	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
4G1	64	DBL. CONV. OVEN	BLODGETT	DFG-100-ES	-	-	-	-	-	-	-	-	3/4"	45	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
5E	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	0.2	1.3	-	120	1	20	1	-	-	-	-	-	-	-	-	-	DIRECT	8'	CONDUIT & WIRE
5G	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
5C	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
5C1	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	-	-	-	-	3/8"	-	-	-	QUICK DISCONNECT	5'	FILTERED
6E	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	0.2	1.3	-	120	1	20	1	-	-	-	-	-	-	-	-	-	DIRECT	8'	CONDUIT & WIRE
6G	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	-	QUICK DISCONNECT	5'	-
6C	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	-	-	-	-	1/2"	-	-	-	QUICK DISCONNECT	5'	-
6C1	91	CONV. STEAMER	CLEVELAND	24CGA10.2ES	-	-	-	-	-	-	-	-	-	-	-	-	3/8"	-	-	-	QUICK DISCONNECT	5'	FILTERED
D1	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	FACTORY	-	GFI BREAKER
D2	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	-	-	-	-	-	-	-	FACTORY	-	GFI BREAKER
TOTAL CONNECTED LOAD:				5.0	KW.	13.8	AMP	0.0	KW.	0.0	AMP	405	MBH	H.W.	STEAM SUPPLY								
FUTURE AVAILABLE LOAD CAPACITY:				9.4	KW.	26.2	AMP	0.0	KW.	0.0	AMP	385	MBH	3/4"									
SYSTEM CAPACITY:				14.4	KW.	40.0	AMP	0.0	KW.	0.0	AMP	790	MBH	C.W.	COND. RETURN								
SERVICE SIZE:				120/208 V/ 3 PH/ 50 AMP				V/ PH/ AMP				1-1/2" IPS		3/4"									

- ALL UTILITIES FOR UNSPECIFIED EQUIPMENT ARE TO BE INSPECTED AND APPROVED BY CUSTOMER PRIOR TO ORDERING, C.A.S. CANNOT BE HELD ACCOUNTABLE FOR IMPROPER UTILITIES OF EQUIPMENT IF IT IS NOT SPECIFIED

REVISIONS

DESCRIPTION	DATE

CAPTIVE

www.captiveaire.com

Charlotte / Triad Mechanical

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