

TILSLEY ARCHITECTS
 1140 SAINT GREGORY ST. CINCINNATI, OH 45202
 TEL: 513.851.4300
 WWW.TILSLEYARCHITECTS.COM

HOOD INFORMATION - Job#4137855

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	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.	S.P.	END TO END
1	HD1-Grill	3650 BD-2	6' 0"	600 Deg.	Heavy	187	1120	10"	10"	4"	1120	1613	-0.754"	0	430 SS Where Exposed	ALONE	ALONE
2	HD1-PSP	246 MISC ACPSP-ONLY	6' 0"	300 Deg.	N/A	0	0							1000	430 SS Where Exposed	ALONE	ALONE
3	HD2-Oven	4412 PS-Ovn	1' 9.25"	300 Deg.	Light	200	700	8"	8"	4"	700	1590	-0.376"	0	430 SS 100%	ALONE	ALONE
4	HD3-Fry	3650 BD-2	4' 2"	600 Deg.	Heavy	189	833	8"	8"	4"	833	1631	-0.616"	0	430 SS Where Exposed	ALONE	ALONE
5	HD3-PSP	246 MISC ACPSP-ONLY	4' 2"	300 Deg.	N/A	0	0							650	430 SS Where Exposed	ALONE	ALONE

FOR QUESTIONS, CALL THE CAPTIVE-AIRE (TRI-STATE) OFFICE
 1329 E. KEMPER RD. SUITE 4210
 PHONE: (513) 860-5555
 joe.hertenstein@captiveaire.com

HOOD INFORMATION

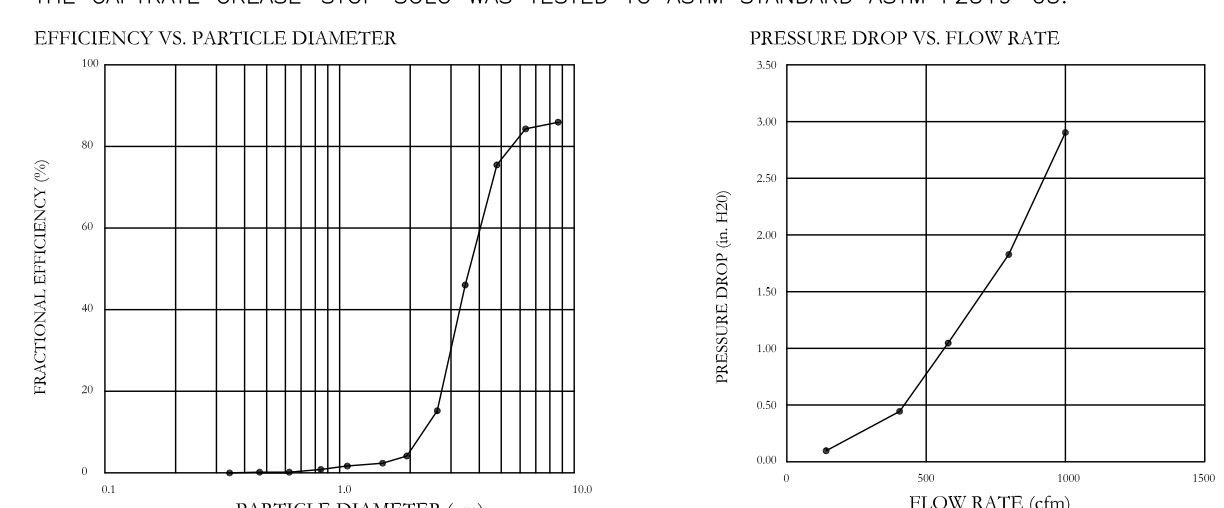
HOOD NO.	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT	
			QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL	SWITCHES			
1	HD1-Grill	Captrate Solo Filter	4	16"	16"	85% See Filter Spec.	3	L55 Series E26	NO						YES	250 LBS	
2	HD1-PSP						0								NO	106 LBS	
3	HD2-Oven	SS Baffle w/ Handles	2	10"	20"	30%	0							YES	248 LBS		
4	HD3-Fry	Captrate Solo Filter	3	16"	16"	85% See Filter Spec.	2	L55 Series E26	NO	Wall Mnt	12"x48"x24"	Ansul R102	3.0/3.0	SC-ED13022MA	2 Light 2 Fan	YES	225 LBS
5	HD3-PSP						0							NO	68 LBS		

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1	HD1-Grill	FIELD WRAPPER 14.50" High Front, Left, Right
		BACKSPLASH 104.00" High X 108.00" Long 430 SS Vertical
		RIGHT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS
		LEFT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS
3	HD2-Oven	SENSOR-CV
		FIELD WRAPPER 14.50" High Front, Left, Right
		BACKSPLASH 104.00" High X 78.00" Long 430 SS Vertical
		BACKSPLASH 48.00" High X 96.00" Long 430 SS Horizontal
4	HD3-Fry	BACKSPLASH - INSIDE CORNER 96.00" High X 2.00" Leg Length 430 SS Vertical
		LEFT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS
		RIGHT VERTICAL END PANEL 26" Top Width, 26" Bottom Width, 61" High Insulated 430 SS
		SENSOR-CV
6	Misc Items	OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Back 430 SS
		OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Right 430 SS
		OPTIONS ONLY: FIELD WRAPPER 40.00" High x 17.00" Long Left 430 SS
		OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long
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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.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96
 NSF STANDARD #2
 UL STANDARD #1046
 INT. MECH. CODE (IMC)
 ULC-5649

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG.	DIA.	S.P.
2	HD1-PSP	Front	72"	10"	6"	AC	8"	24"	465	0.123"
		Back	72"	14"	6"	MUA	10"	24"	500	0.138"
5	HD3-PSP	Front	50"	10"	6"	AC	8"	16"	250	0.071"
		Back	50"	14"	6"	MUA	10"	24"	650	0.213"

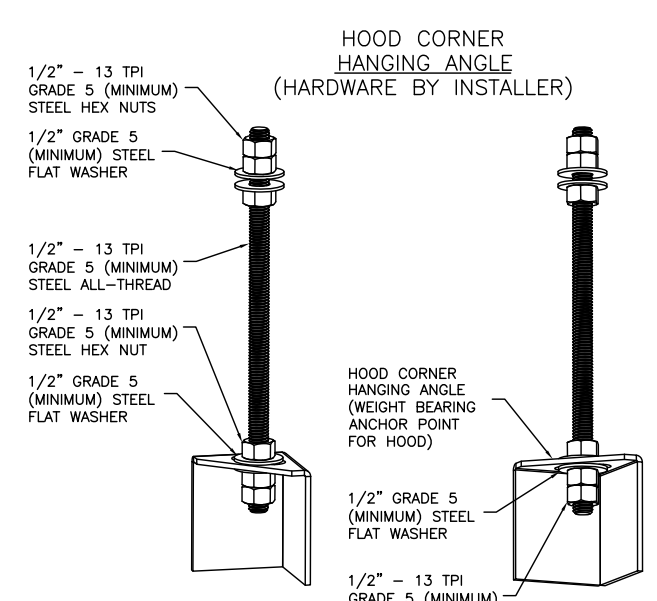
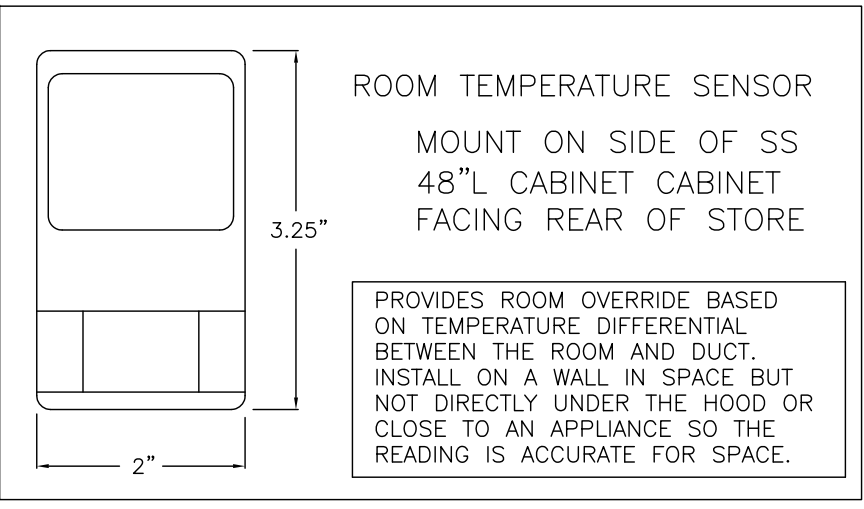
Fire System Information - Job#3592923

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS-1	Ansul R102	3.0/3.0	6 (TWO) AT EACH HOOD	Wall Utility Cabinet Left	N/A

GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	Mechanical	1.250	CaptiveAir Systems

LOCATED IN 48"L X24"H 12"T SS CABINET MOUNTED NEXT TO GRILL HOOD



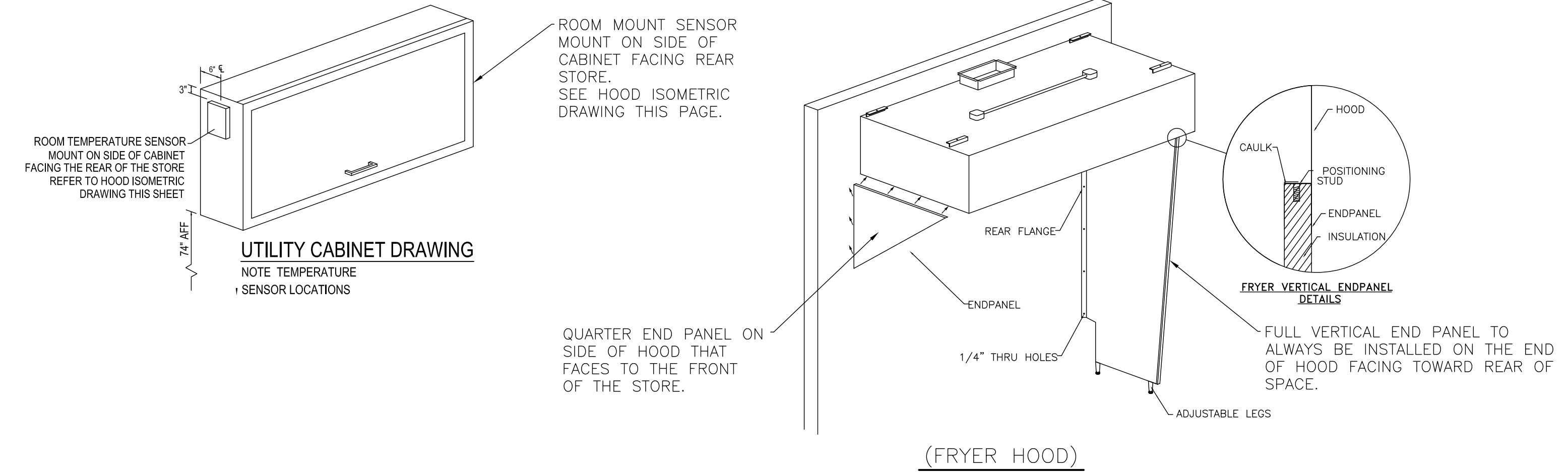
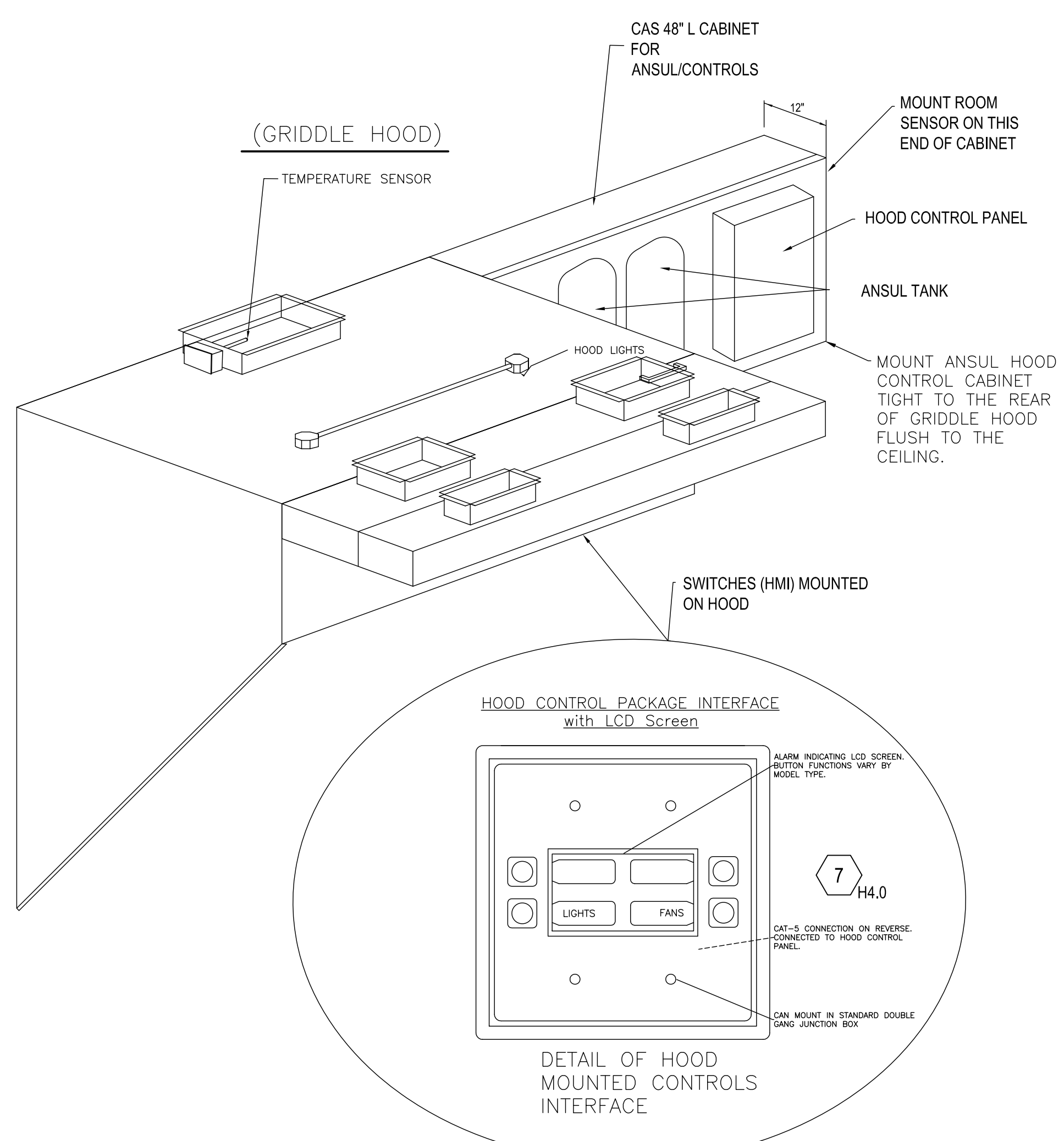
ASSEMBLY INSTRUCTIONS

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.

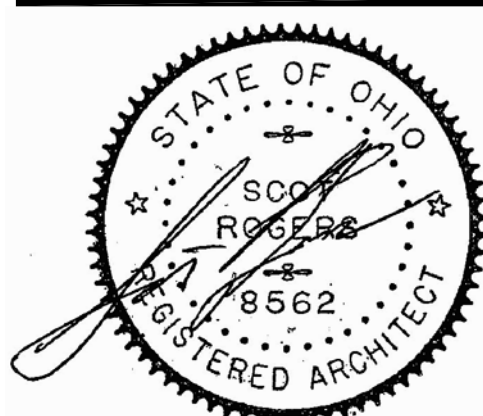
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:
 ETL SANITATION LISTED
 ETL LISTED FILE# 3054804-001

HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

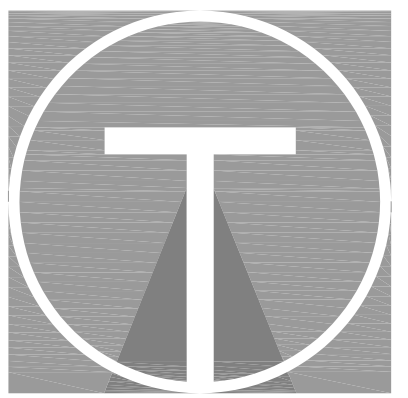
GENERAL WIRING COMPONENTS ONLY (MUST READ ALL DETAILED DIRECTIONS ON THE CAPTIVE-AIRE ELECTRICAL DWG SHEET PROVIDED)



A New Penn Station Restaurant
 East Side Square
 3471 E National Road
 Springfield, OH 45505



Sheet Title: **Captiveaire Shop**
 Drawings
 Issued: 12-17-2020
 Scale: As Noted
 Drawn: S. Rogers
 20049 PS Springfield, OH



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EXHAUST FAN INFORMATION - Job#4137855

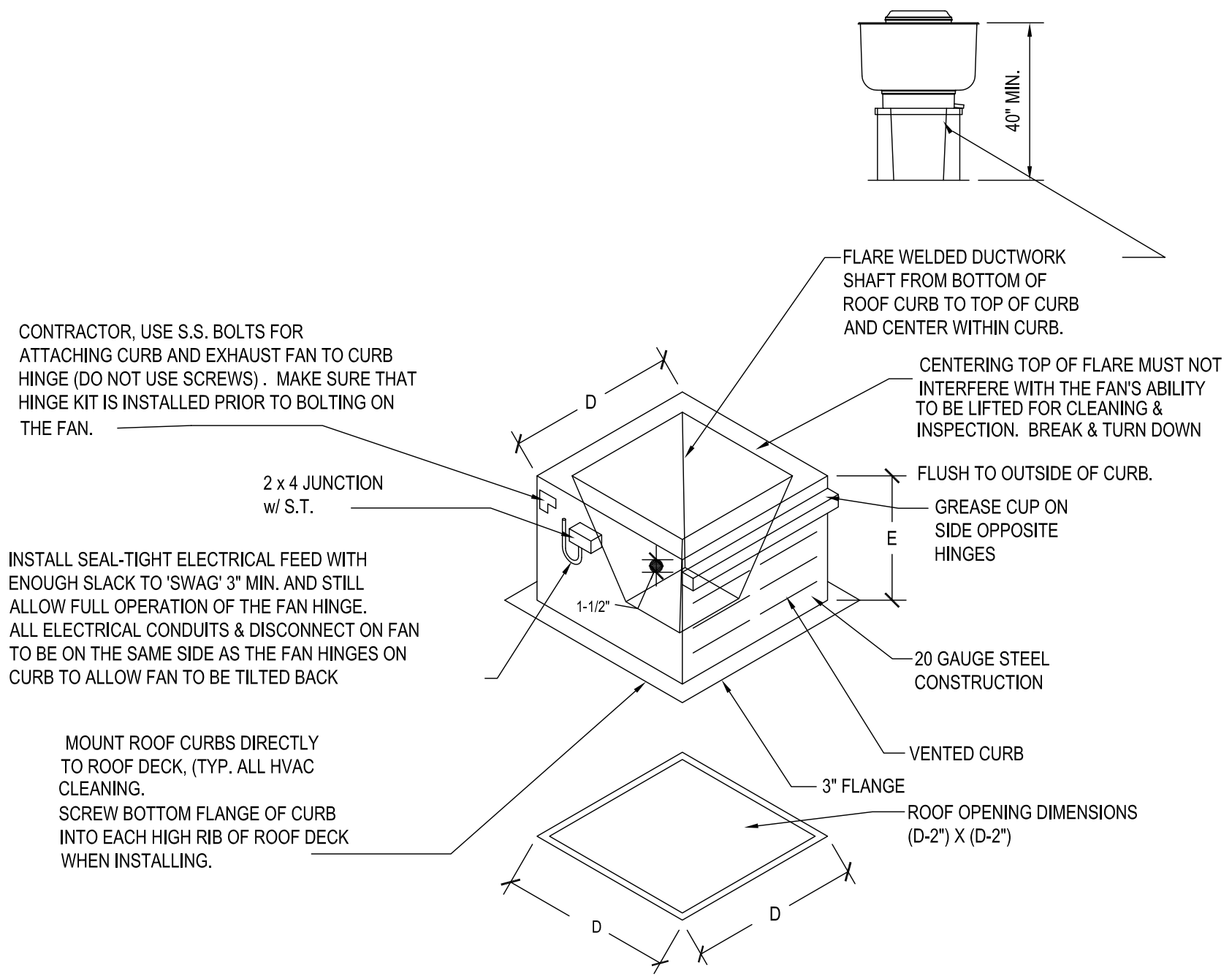
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1 (Grill)	DU85HFA	1120	1.150	1215	0.750	0.3410	1	115	8.9	354 FPM	89	12.8
2	KEF2 (OVEN)	DU33HFA	700	0.600	1360	0.333	0.2030	1	115	4.3	396 FPM	70	14.1
3	KEF3 (FRY)	DU85HFA	833	1.150	1144	0.750	0.3250	1	115	8.8	276 FPM	92	14.6

MUA FAN INFORMATION - Job#4137855

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCA	MOCP	WEIGHT (LBS.)	SONES	
4	HMUA1	A1-D.250-15D	5MF-1-M00	A1-D.250	1000	1650	0.440	1855	1.500	0.9960	3	208	4.4		15A	648	15.6

CURB ASSEMBLIES

NO.	ON FAN	TAG	WEIGHT	ITEM	SIZE (D) x (D) x (E)	LOCATION
1	# 1	KEF1 - GRIDDLE	44 LBS	Curb	23.000"W x 23.000"L x 30.000"H	Vented Hinged Grill Hood Curb
2	# 2	KEF2 - OVEN	38 LBS	Curb	19.500"W x 19.500"L x 30.000"H	Vented Hinged Oven Hood Curb
3	# 3	KEF3 - FRYER	44 LBS	Curb	23.000"W x 23.000"L x 30.000"H	Vented Hinged Fryer Hood Curb
4	# 4	HMUA1	63 LBS	Curb	21.000"W x 71.000"L x 16.000"H	Hood MUA Curb

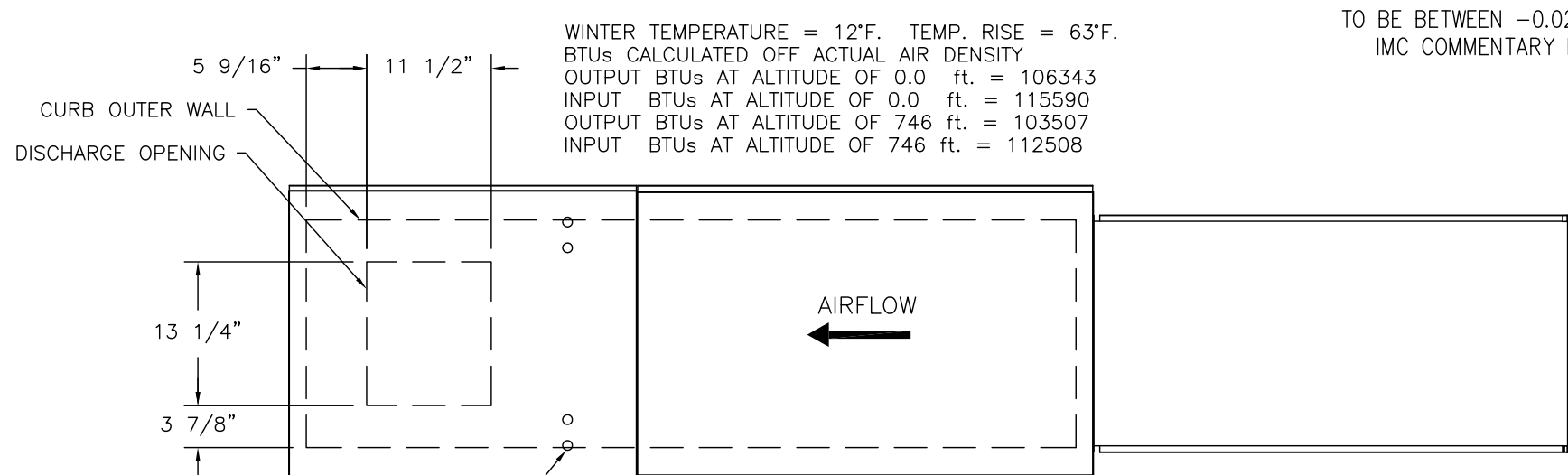


FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF1	1 - Grease Box
		1 - Exhaust Fan Heat Baffle
		1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts
		1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
2	KEF2	1 - Grease Box
		1 - Exhaust Fan Heat Baffle
		1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts
		1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
3	KEF3	1 - Grease Box
		1 - Exhaust Fan Heat Baffle
		1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts
		1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
4	HMUA1	1 - Motorized Backdraft Damper for A1-D Housing
		1 - Low Fire Start
		1 - Inlet Pressure Gauge, 0-35"
		1 - Manifold Pressure Gauge, -5 to 15" wc
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only
		1 - Unit Mounted VFD For Use with ECPM03

TAG	ROOMS SERVED	O.A. CFM	EXHAUST CFM
KEF-1	HD1 (GRILL)	-	- 1120
KEF-2	HD2 (OVEN)	-	- 700
KEF-3	HD3 (FRYER)	-	- 833
HMUA-1	HDS 1 & 3	+ 1650	-
EF 4/5	TOILETS	-	- 225
HVAC	BUILDING	+ 1350 (MIN)	-
NET		+122 CFM	

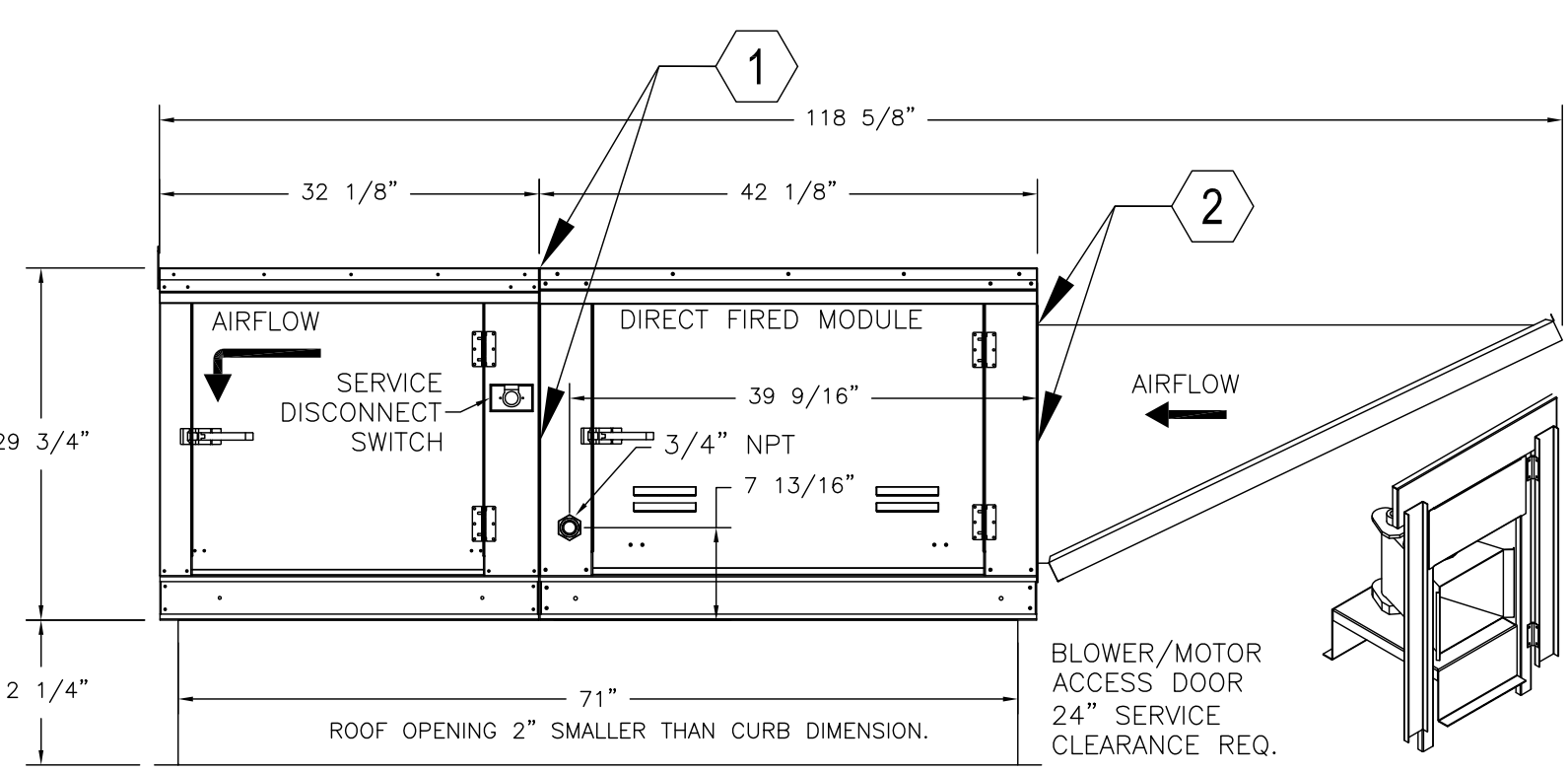
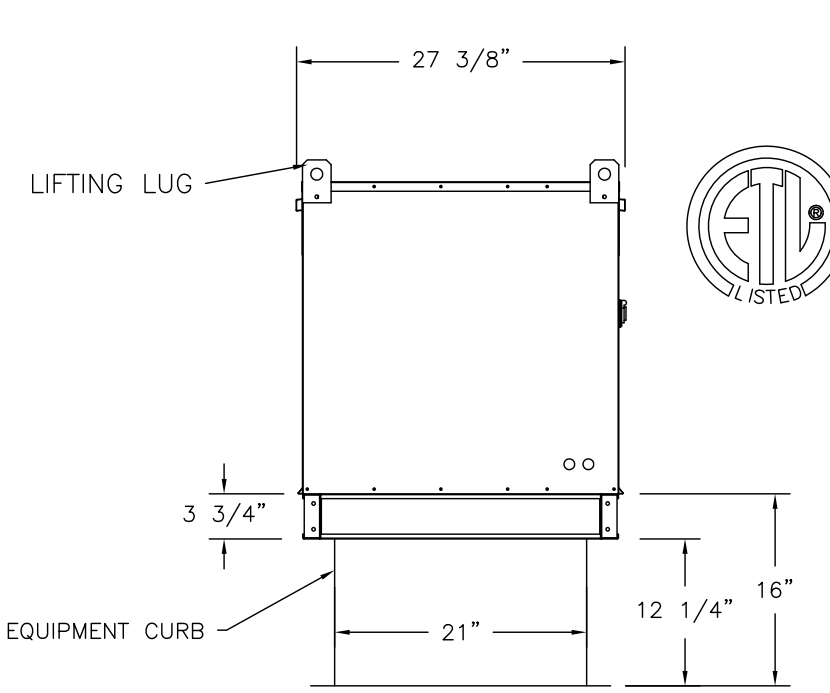
SUPPLY SIDE HEATER INFORMATION:



KITCHEN TO MAINTAIN A SLIGHTLY NEGATIVE PRESSURE. OVERALL BUILDING PRESSURE TO BE BETWEEN -0.02" TO +0.02" WC PER IMC COMMENTARY RECOMMENDATIONS

GAS FIRED MAKE-UP AIR UNIT(S)

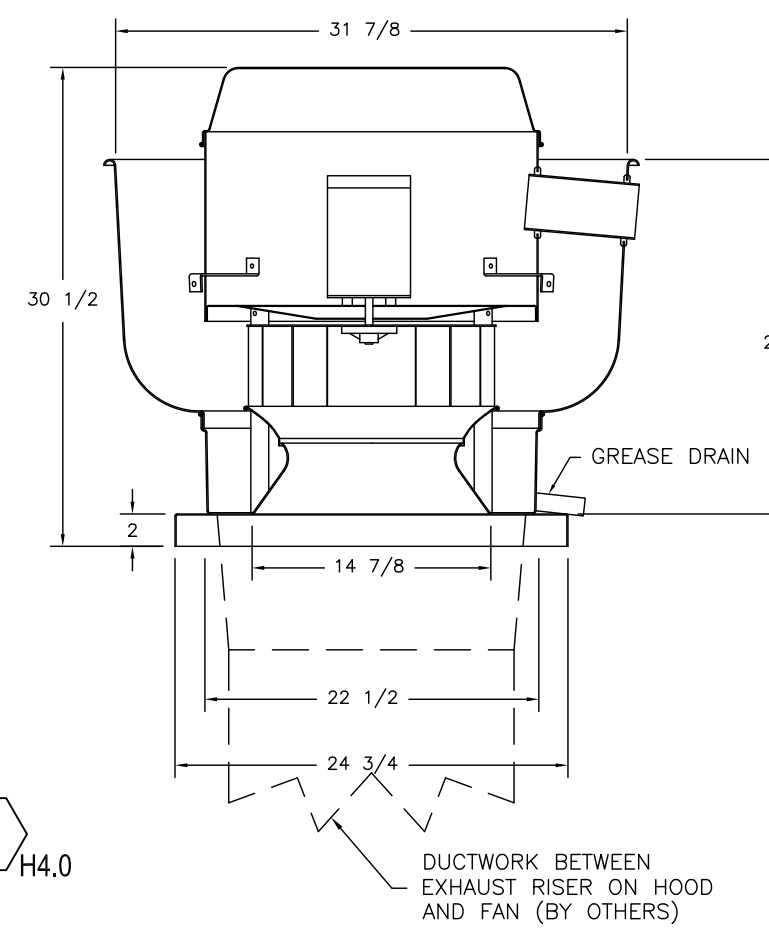
FAN UNIT NO.	TAG	INPUT BTUS	OUTPUT BTUS	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
4	HMUA1	110372	101542	63 deg F	7 in. w.c. - 14 in. w.c.	Natural	92



- MUA NOTES:**
- URETHANE CAULK HORIZ. & VERT. CONNECTIONS BETWEEN BLOWER ASSEMBLY & CONTROL MODULE.
 - URETHANE CAULK HORIZ. & VERT. CONNECTIONS BETWEEN CONTROL MODULE & OUTSIDE AIR HOOD.

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FAN #1 DU85HFA - EXHAUST FAN (KEF1)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-9645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

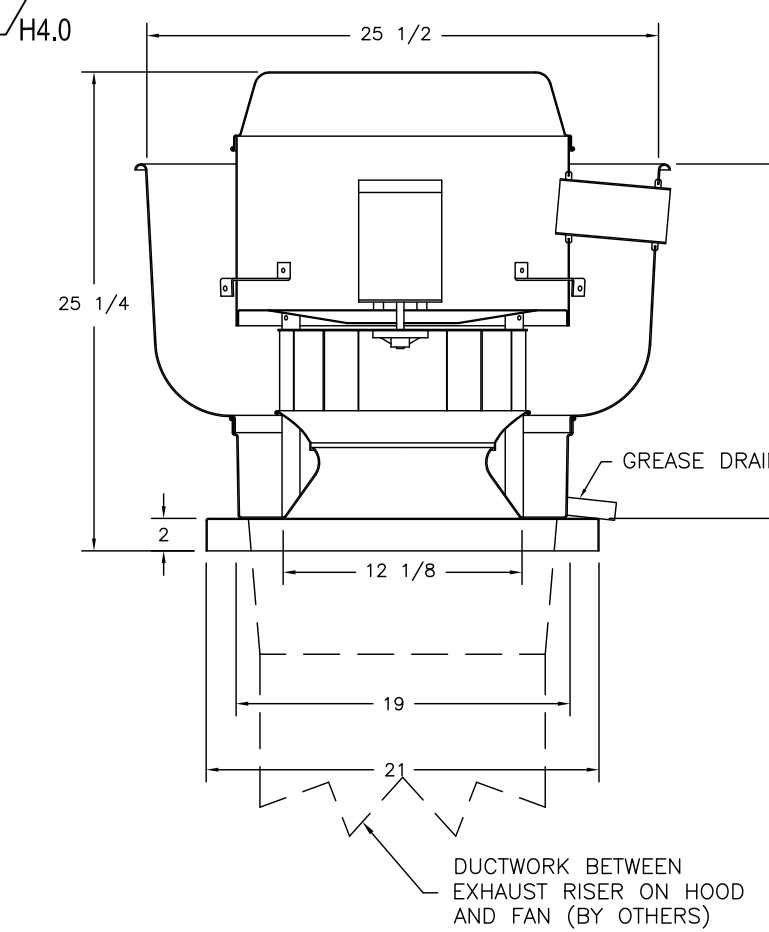
NORMAL TEMPERATURE TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE-EXHAUST - PWM SIGNAL FROM ECPM03 PREWIRE (NIDEC MOTOR).

FAN #2 DU33HFA - EXHAUST FAN (KEF2)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-9645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

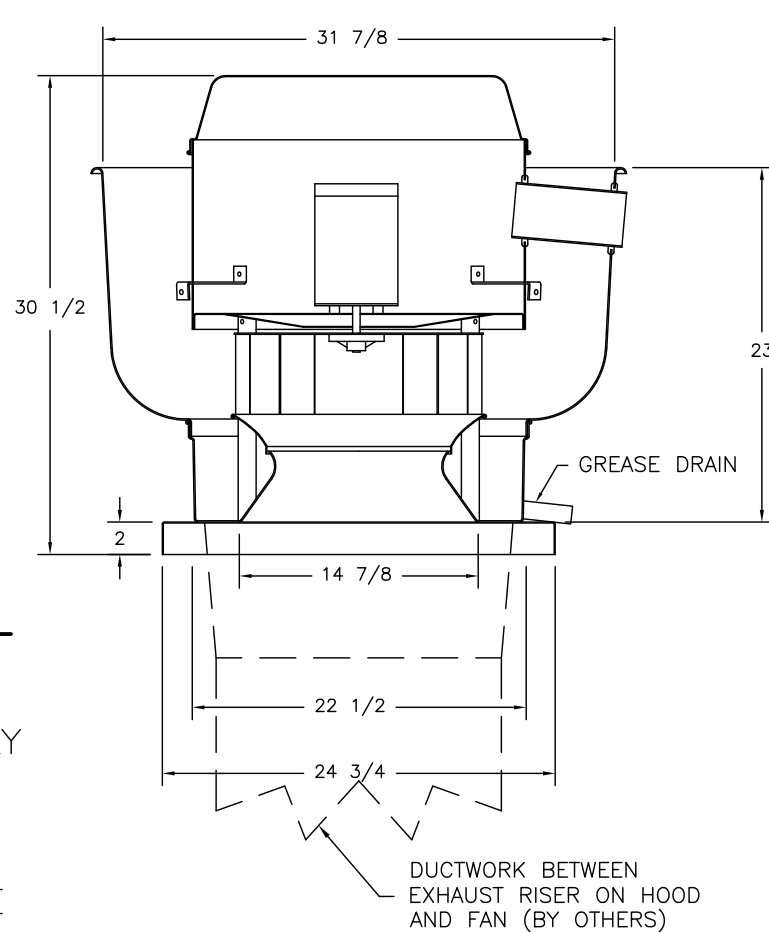
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FAN #1 DU85HFA - EXHAUST FAN (KEF1)



FEATURES:

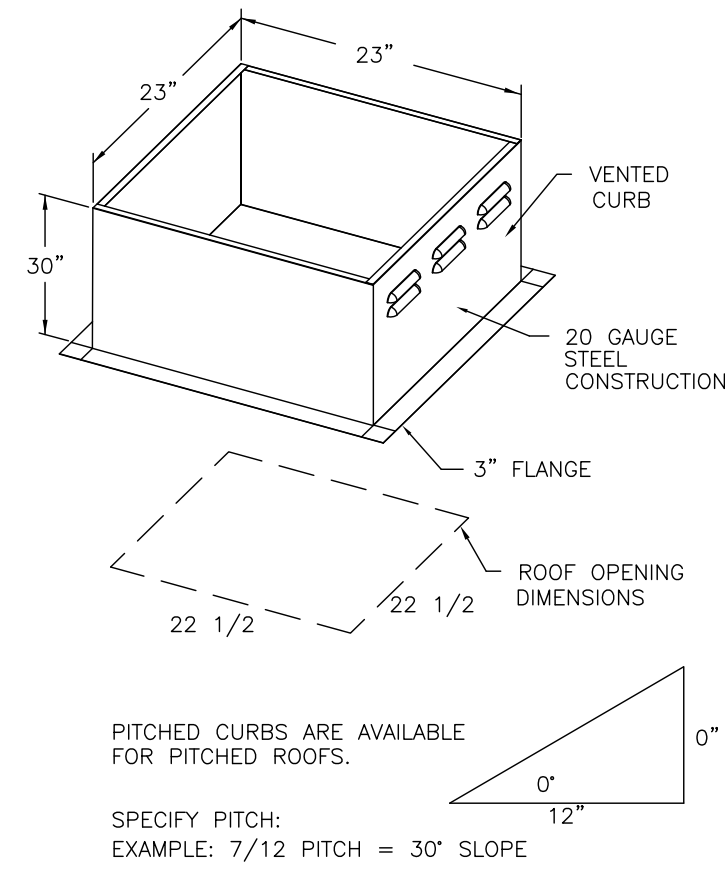
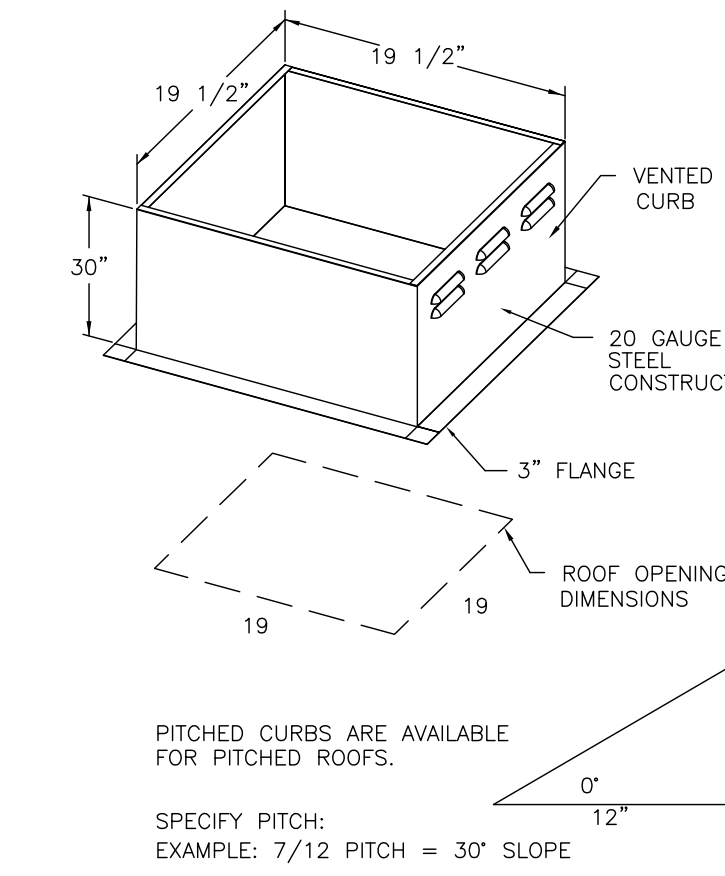
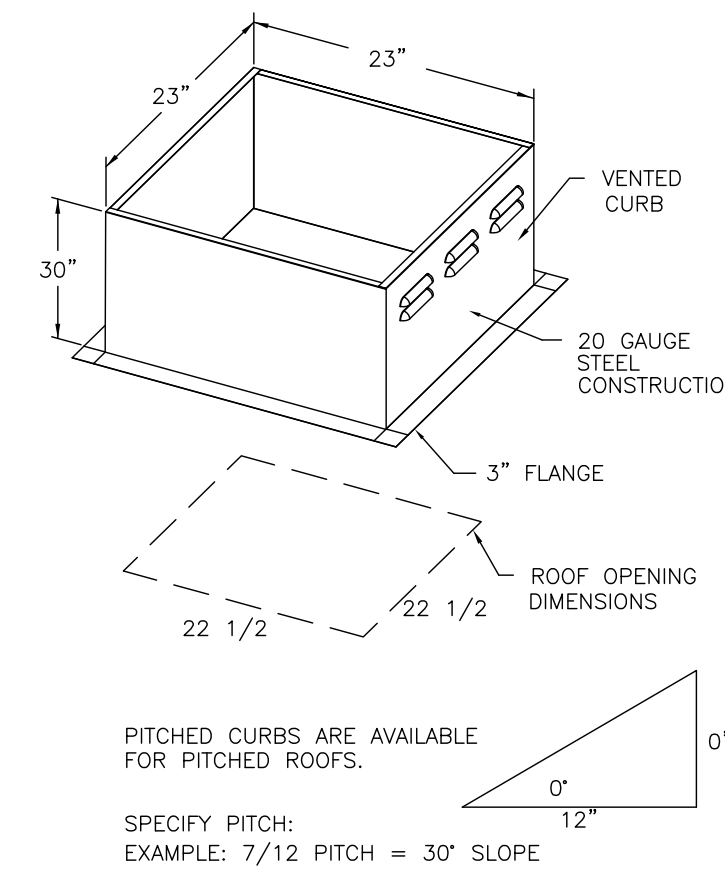
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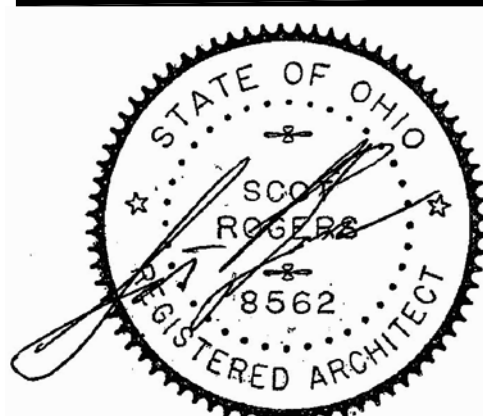
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OPTIONS

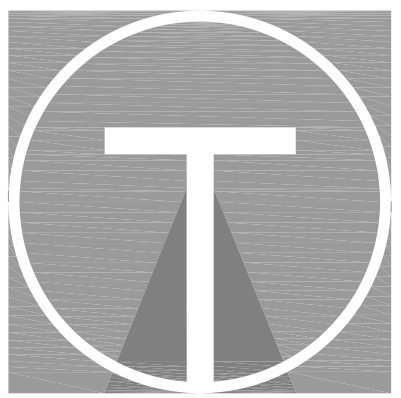
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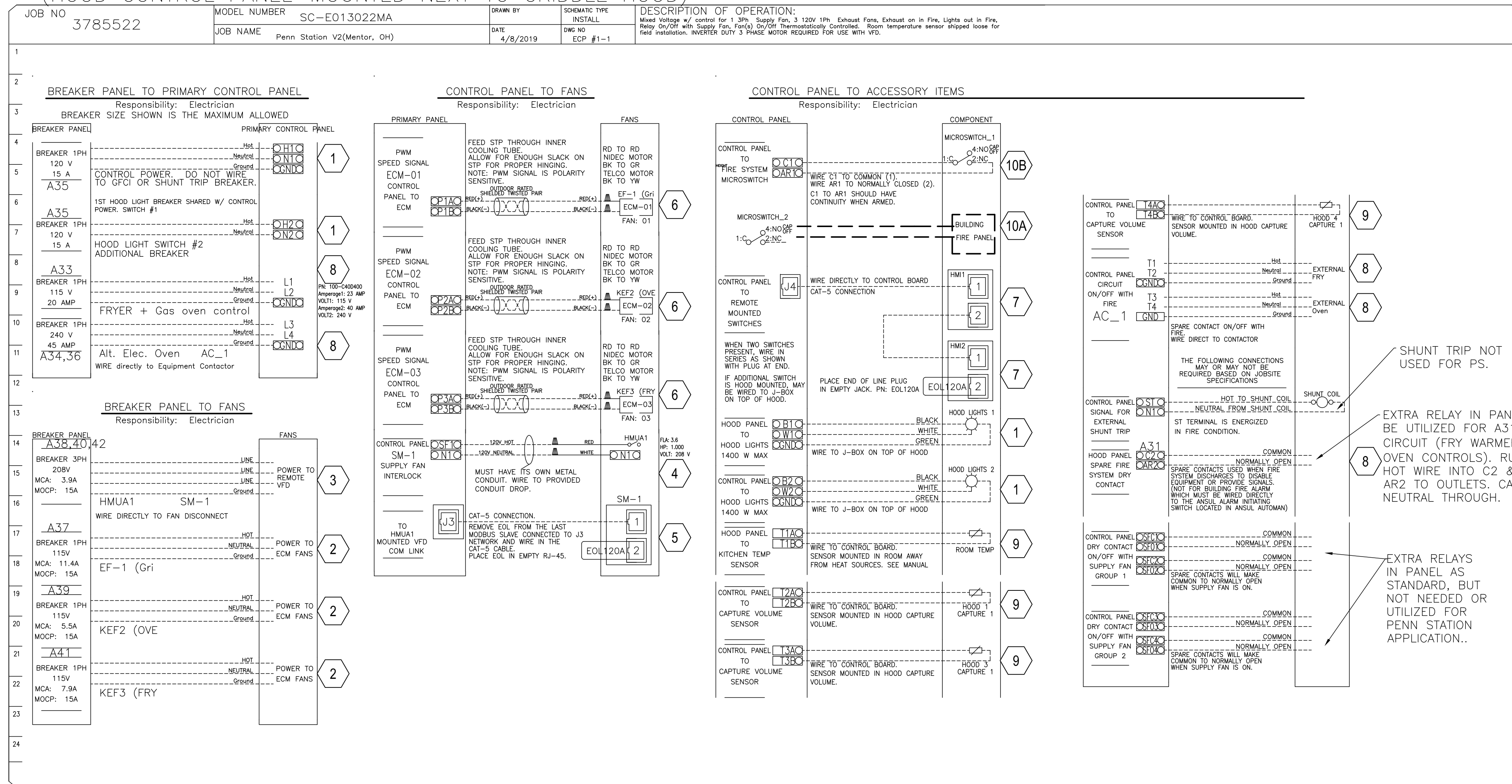


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ARCHITECTS
1140 SAINT GREGORY ST. CINCINNATI,
OH 45202
TEL: 513.851.4300
WWW.TILSLEYARCHITECTS.COM

ELECTRICAL PACKAGE - Job#4137855

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	H.P.	VOLT	FLA
1	ECP1	SC-E013022MA	Wall Utility Cabinet Right	O2 - Face Mount Right Side of Hood	2 Light	Smart Controls Thermostatic Control w/ Relay On/Off with Supply	EF-1 (Grill)	Exhaust	1	0.750	115	8.9
				Hood # 1	2 Fan		KEF2 (OVEN)	Exhaust	1	0.333	115	4.3
							KEF3 (FRY)	Exhaust	1	0.750	115	8.8
							HMU1	Supply	3	1.5	208	4.4

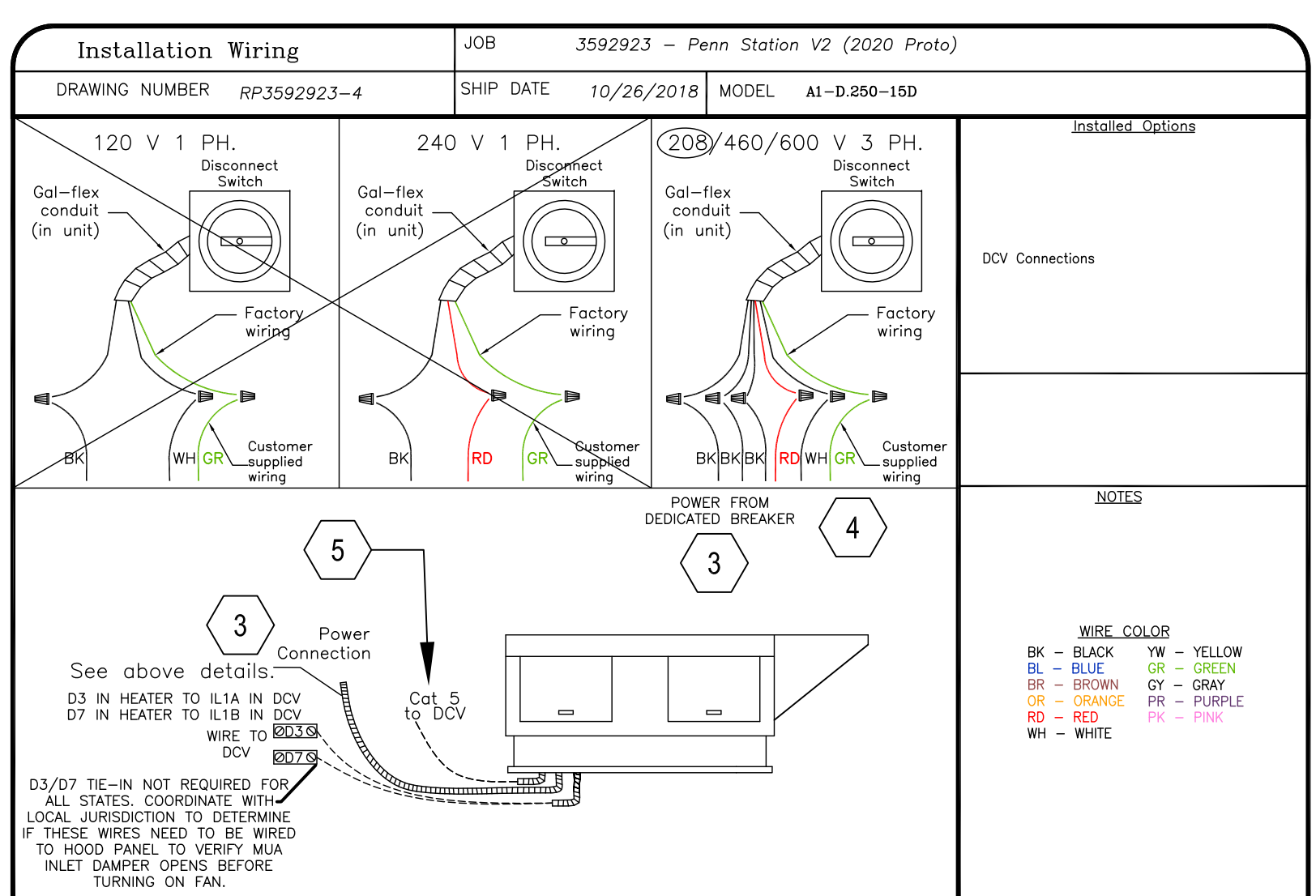
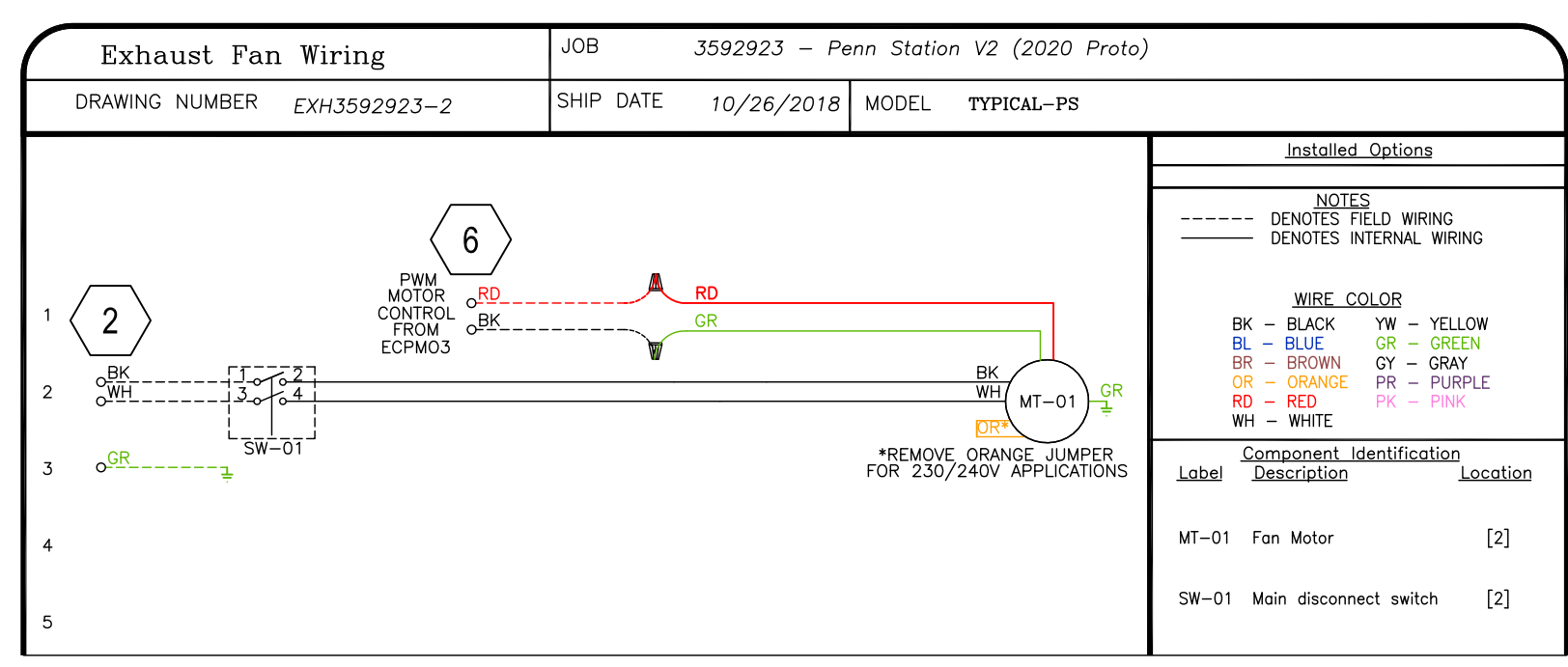
(HOOD CONTROL PANEL-MOUNTED NEXT TO GRIDDLE HOOD)



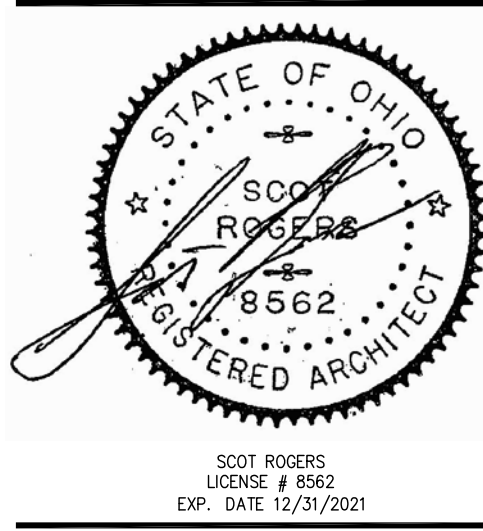
HOOD SYSTEM WIRING INSTRUCTIONS BY ELECTRICIAN

- 1) WIRE 120V, 1 PHASE CIRCUIT FROM BUILDING PANEL TO HOOD CONTROL PANEL TO BE USED FOR CONTROLS & LIGHT CIRCUIT.
- 2) WIRE 120V, 1 PHASE CIRCUITS FROM BUILDING PANEL TO EACH EXHAUST FAN (SEPARATELY) TO CAPTIVE-AIRE SUPPLIED FAN EXTERNAL DISCONNECTS (TYPICAL OF ALL EXHAUST FANS).
- 3) WIRE 208V, 3 PHASE CIRCUIT FROM BUILDING PANEL TO TO MAKE UP AIR FAN ON ROOF & TIE INTO WHIP OFF DISCONNECT SWITCH WITH GROUND.
- 4) WIRE 120V, 1 PHASE CIRCUIT FROM SF1 & N1 OF CONTROL PANEL TO THE RED & WHITE WIRE ON MAKE UP AIR FOR HEATER CONTROLS.
- 5) USING THE CAT5 CABLE SUPPLIED BY CAPTIVE-AIRE, WIRE FROM J3 PLUG AT CONTROL PANEL TO LEFT SIDE OF VFD IN MAKE UP AIR UNIT.
- 6) THERE IS A RED & BLACK PAIR OF TWISTED WEATHERPROOF WIRE ALREADY FACTORY CONNECTED TO EACH MOTOR OF EACH EXHAUST FAN LOCATED UNDER THE FAN HOUSING LID. RUN EACH WIRE THROUGH MOTOR BREATHER TUBE & THEN DOWN TO HOOD CONTROL PANEL NEXT TO GRIDDLE HOOD. TIE EACH ONE INTO P#A & P#B RESPECTIVELY FOR EACH FAN AS SHOWN ON SCHEMATIC TO THE LEFT.
- 7) WIRE THE CAT5 CABLE SUPPLIED BY CAPTIVE AIRE FROM J4 PLUG TO THE JUNCTION BOX LOCATED ON TOP OF THE GRILL HOOD & PLUG IN FOR GRILL HD SWITCH (HMI-1). THEN WIRE THE OTHER CAT5 CABLE FROM THE GRILL HOOD JUNCTION BOX TO THE FRY HOOD JUNCTION BOX ON TOP OF HOOD & PLUG INTO J PLUG FOR THE FRY HOOD SWITCH (HMI-2). YOU ARE WIRING THE SWITCHES TO THE PANEL IN SERIES. SEE H1.0, H2.0
- 8) WIRE THE 120V 1 PHASE FRYER(S)/WARMER CIRCUITS & THE 240V 1 PHASE OVEN CIRCUIT FROM BUILDING PANEL TO HOOD CONTROL PANEL TO THE RESPECTIVE 120V & 240V CONTACTORS & THEN FROM HOOD CONTROL PANEL TO THE RESPECTIVE WALL OUTLETS.
- 9) USING THE WHITE WIRE SUPPLIED BY CAPTIVE-AIRE WIRE FROM EACH HOOD DUCT SENSOR LOCATED IN HOOD EXHAUST COLLAR OR TOP OF HOOD IN JUNCTION BOX TO HOOD CONTROL PANEL & TIE INTO T2A & T2B, T3A & T3B, T4A & T4B. THEN INSTALL WHITE TEMP SENSOR SUPPLIED BY CAPTIVE AIRE ON RIGHT SIDE OF HOOD SS PANEL & WIRE TO T1A & T2B.
- 10) IF BUILDING ALARM IS PROVIDED WITH BUILDING THEN WIRE DIRECTLY INTO THE FRONT SECTION OF THE ANSUL MICROSWITCH PER THE BUILDING FIRE PANEL REQUIREMENTS TO RECEIVE AN ALARM SIGNAL UPON FIRE SYSTEM ACTUATION. IF NO BUILDING ALARM, THEN SUPPLY A HORN/LIGHT STROBE & MOUNT IN SIGHT OF HOODS AND TIE DIRECTLY INTO ANSUL MICROSWITCH AT NO CONTACT ON SWITCH (BLACK WIRE OF MICROSWITCH) & A NEUTRAL FROM CONTROL PANEL.
- 11) INSTALL LIGHT BULBS IN HOODS SUPPLIED BY OWNER. VERIFY ALL FANS & LIGHTS POWER UP. CHECK ROTATION FOR SUPPLY FAN. ANY QUESTIONS CONTACT JOE AT 513-860-5555. 5 BULBS REQ'D - SUPPLIED IN GENERAL LIGHTING

A New Penn Station Restaurant
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FOR QUESTIONS, CALL THE
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