

HOOD INFORMATION - Job#6276045

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	ROW
1	HD1-Grill	3650 ELPX-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 ACPS-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	600	8"	8"	4"		600	1590	-0.376"	0	430 SS 100%	ALONE	ALONE
4	HD3-Fry	3650 ELPX-2	4' 2"	600 Deg.	Heavy	189	850	9"	8"	4"		850	1631	-0.616"	0	430 SS Where Exposed	ALONE	ALONE
5	HD3-PSP	246 MISC ACPS-ONLY	4' 2"	300 Deg.	N/A	0	0								630	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	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WGT
												TYPE	SIZE				
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"x60"x24"	TANK FIRE	4/4/4	SC-E013022MA	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
		OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long
		OPTIONS ONLY: WRAPPER CHANNEL - 14.00" Long

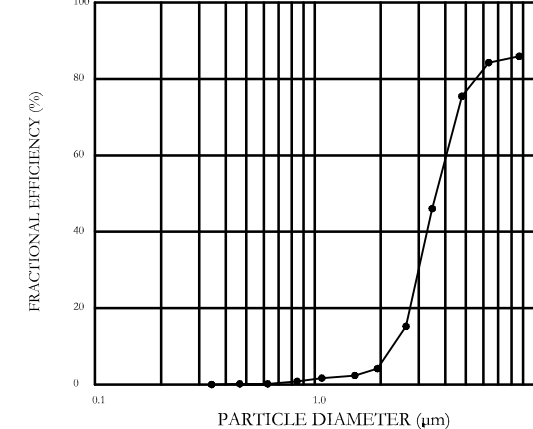
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

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).

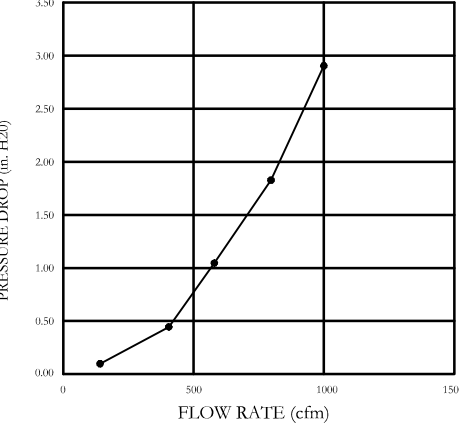
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED. GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

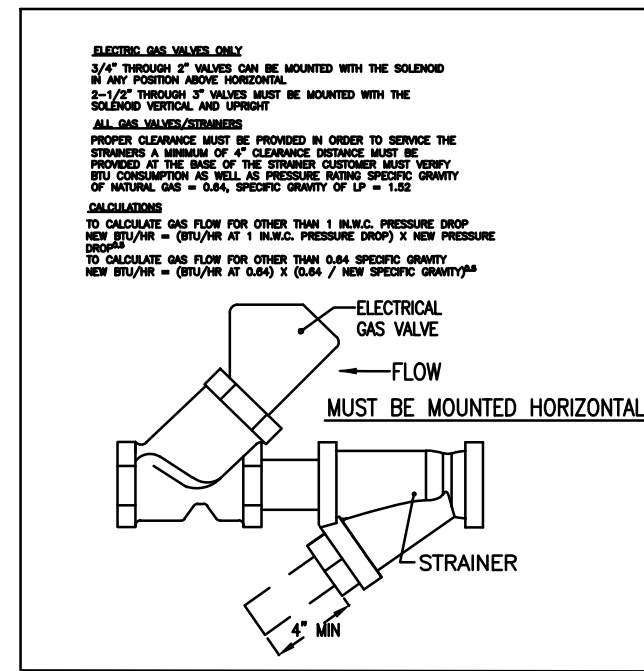
EFFICIENCY VS. PARTICLE DIAMETER



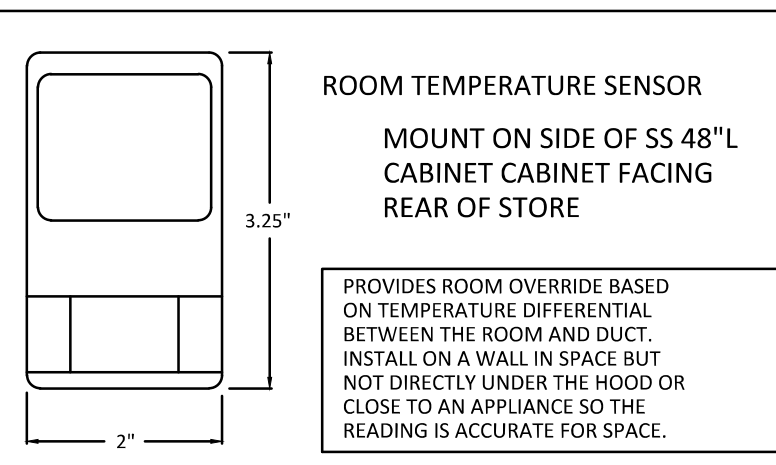
PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #3
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649

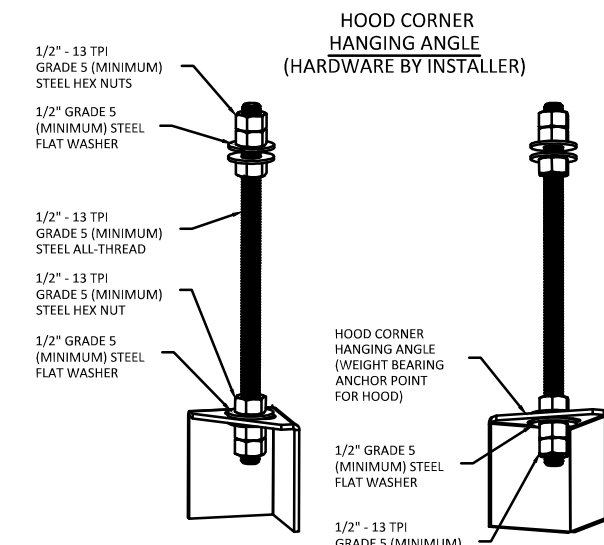


LOCATED IN 48"X24"X12" T SS CABINET MOUNTED NEXT TO GRIDDLE HOOD



ROOM TEMPERATURE SENSOR
MOUNT ON SIDE OF 48" L CABINET CABINET FACING REAR OF STORE

PROVIDES ROOM OVERRIDE BASED ON TEMPERATURE DIFFERENTIAL BETWEEN THE ROOM AND DUCT. INSTALL ON A WALL IN SPACE BUT NOT DIRECTLY UNDER THE HOOD OR CLOSE TO AN APPLIANCE SO THE READING IS ACCURATE FOR SPACE.



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:

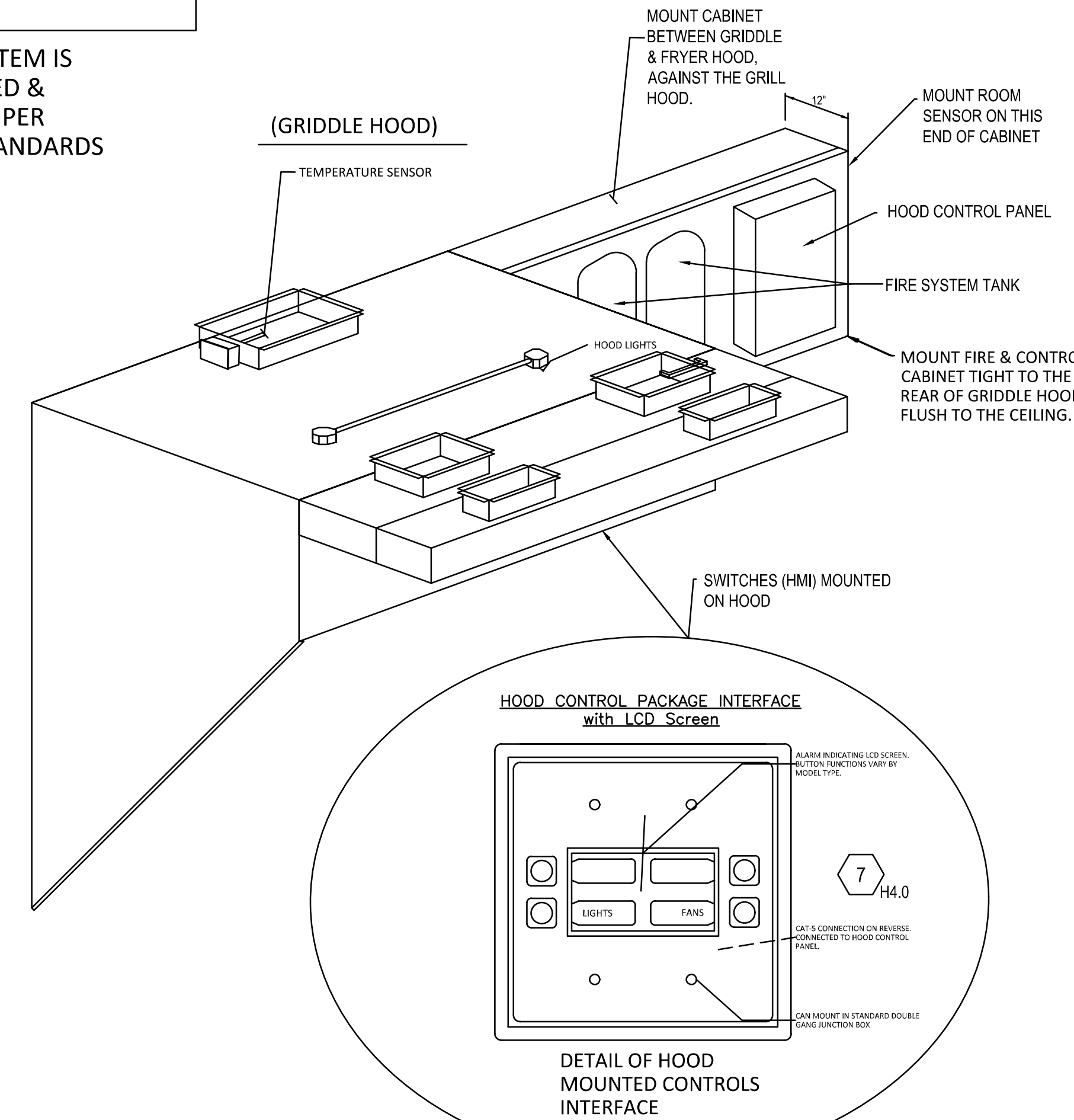
ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

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

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



PERFORATED SUPPLY PLENUM(S)

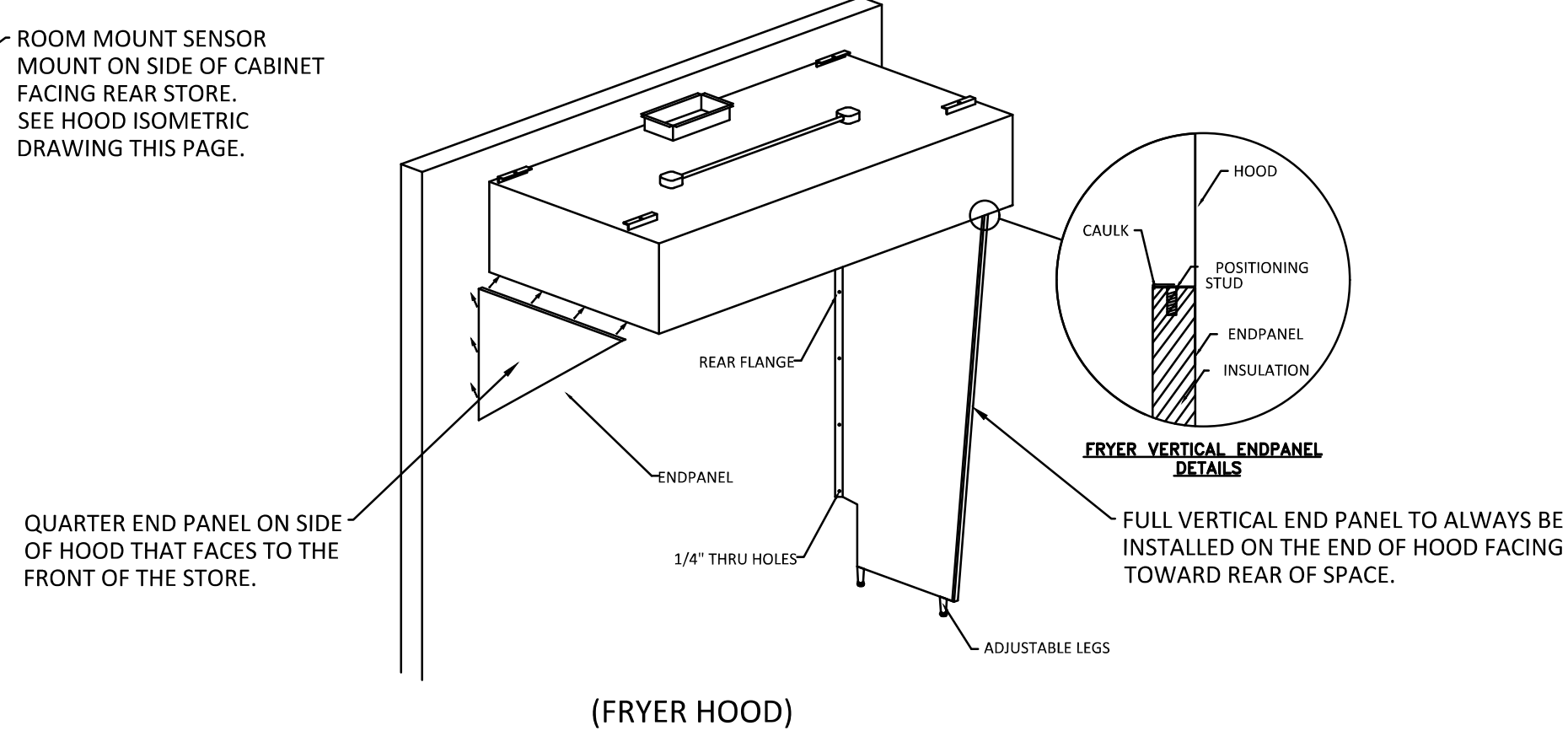
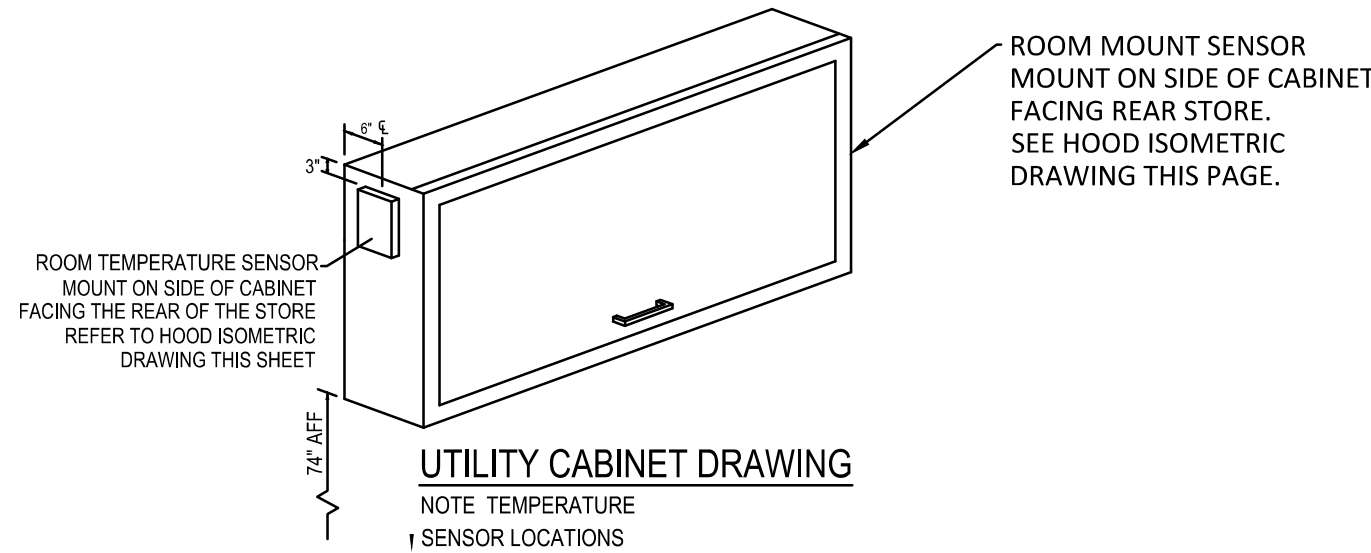
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	
2	HD1-PSP	Front	72"	10"	6"	AC	8"	24"		465	0.123"
		Back	72"	14"	6"	MUA	10"	24"		500	0.138"
5	HD3-PSP	Front	50"	10"	6"	AC	8"	16"		250	0.071"
		Back	50"	14"	6"	MUA	10"	24"		630	0.213"

WALL-MOUNT UTILITY CABINET

HOOD NO.	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL	SWITCHES	WEIGHT
			TYPE	SIZE			
2	WALL MNT	12"x60"x24"	TANK FS	4.0/4.0/4.0	SC-130220MA_MA4	2 LIGHT 2 FAN	440.00 LBS

GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1	FS1	SC ELECTRICAL	2.000	ECON-AIR



REVISIONS

DESCRIPTION	DATE

CAPTIVE-AIRE

Air Solutions

1329 East Kemper Rd., Ste. 4210, Cincinnati, OH 45246 PHONE: (513) 860-5555 EMAIL: reg120@ecanair.com

Penn Station V2B-R

DATE:

DWG.#: 6277370

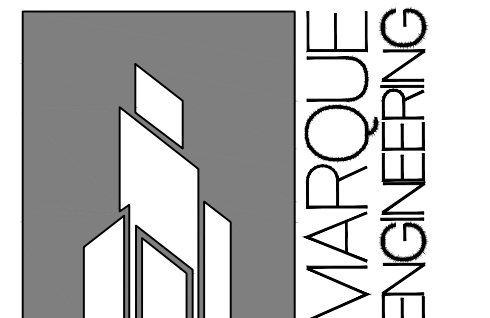
DRAWN BY:

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

MASTER DRAWING

SHEET NO. 1

SHEET CONTENTS:
MECHANICAL
SPECIFICATIONS



2230 PARK AVE., STE. 100
CINCINNATI, OH 45206
513.457.7131
WWW.MARQUEENG.COM

NEW TENANT FINISH FOR:



3040 DIXIE HWY HAMILTON, OH 45015

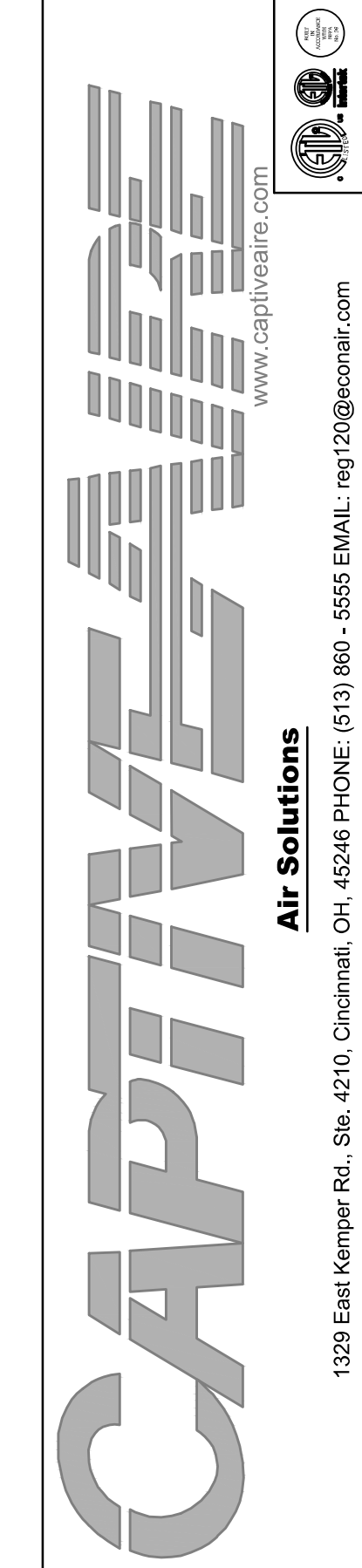
REV. DATE CK'D

Drawn By: JJR Checked By: JWQ

Date: Job No:
MQE #12578

H2.0

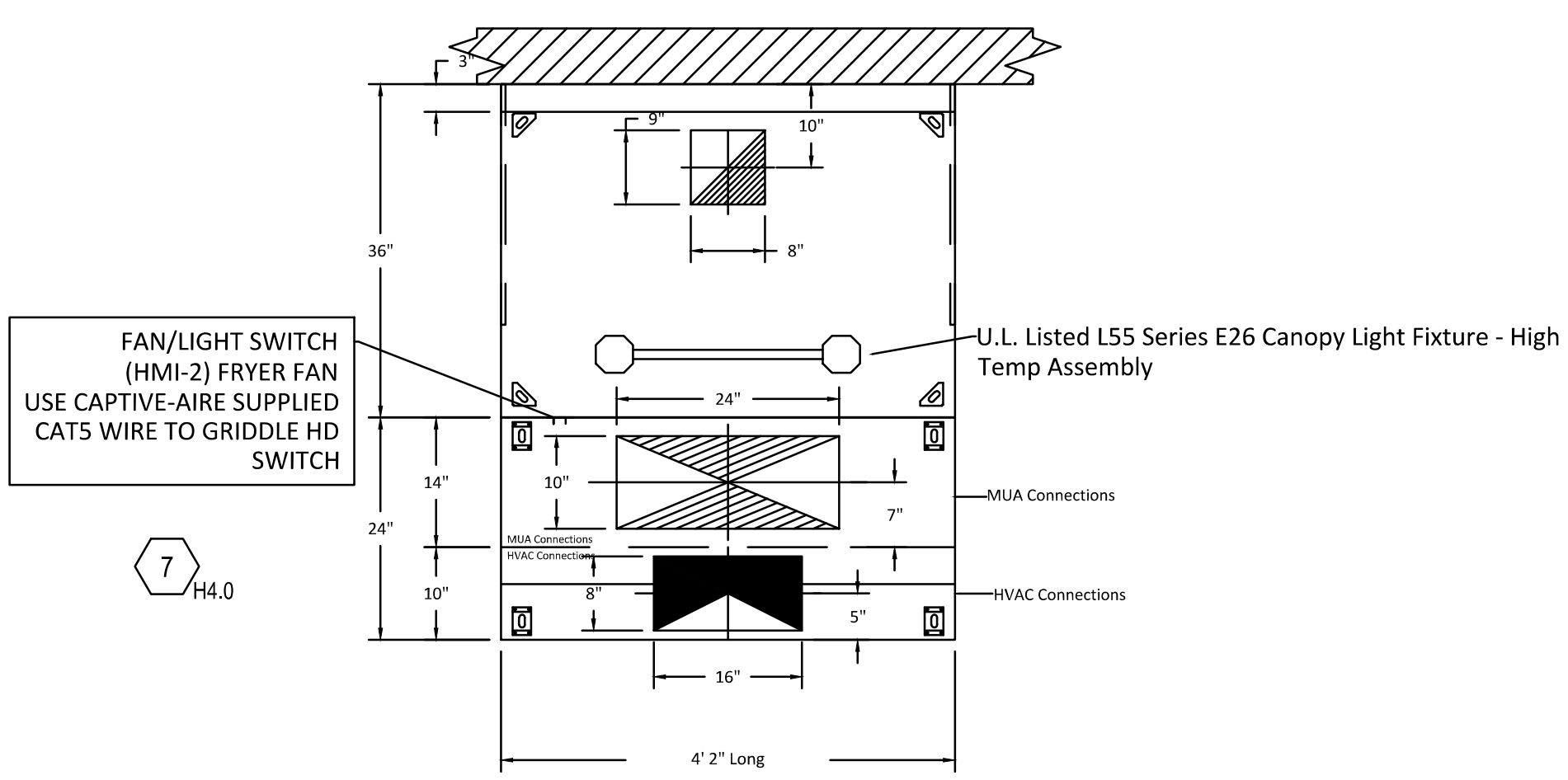
REVISIONS	
DESCRIPTION	DATE



Penn Station V2B-R

DATE:
DWG.#: 6277370
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
2



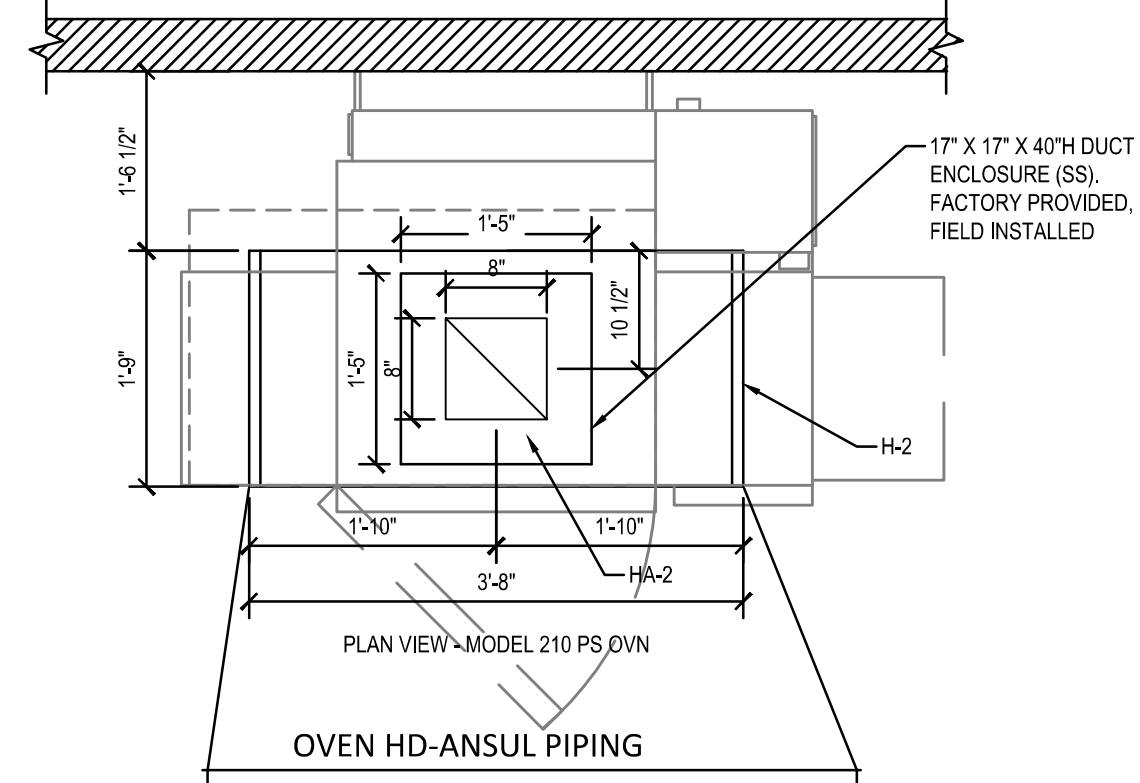
PLAN VIEW - (Hood #3-Fry)
4' 2.00" LONG 3650BD-2
4' 2.00" LONG 246ACPSP-PLENUM

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ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

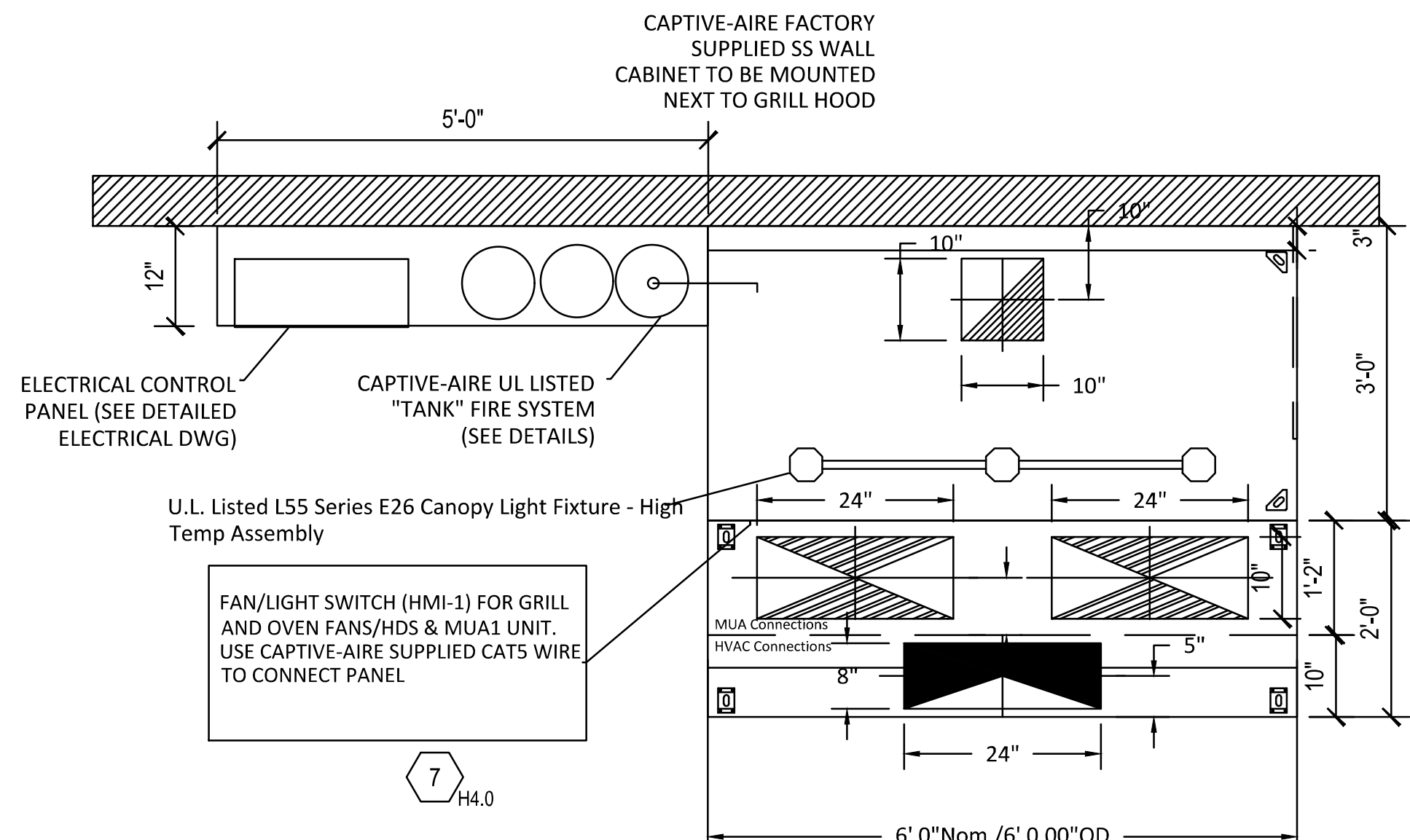
HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

PLANS @ COOK LINE
3/4"=1'-0"
HOOD - (HD2-Oven)

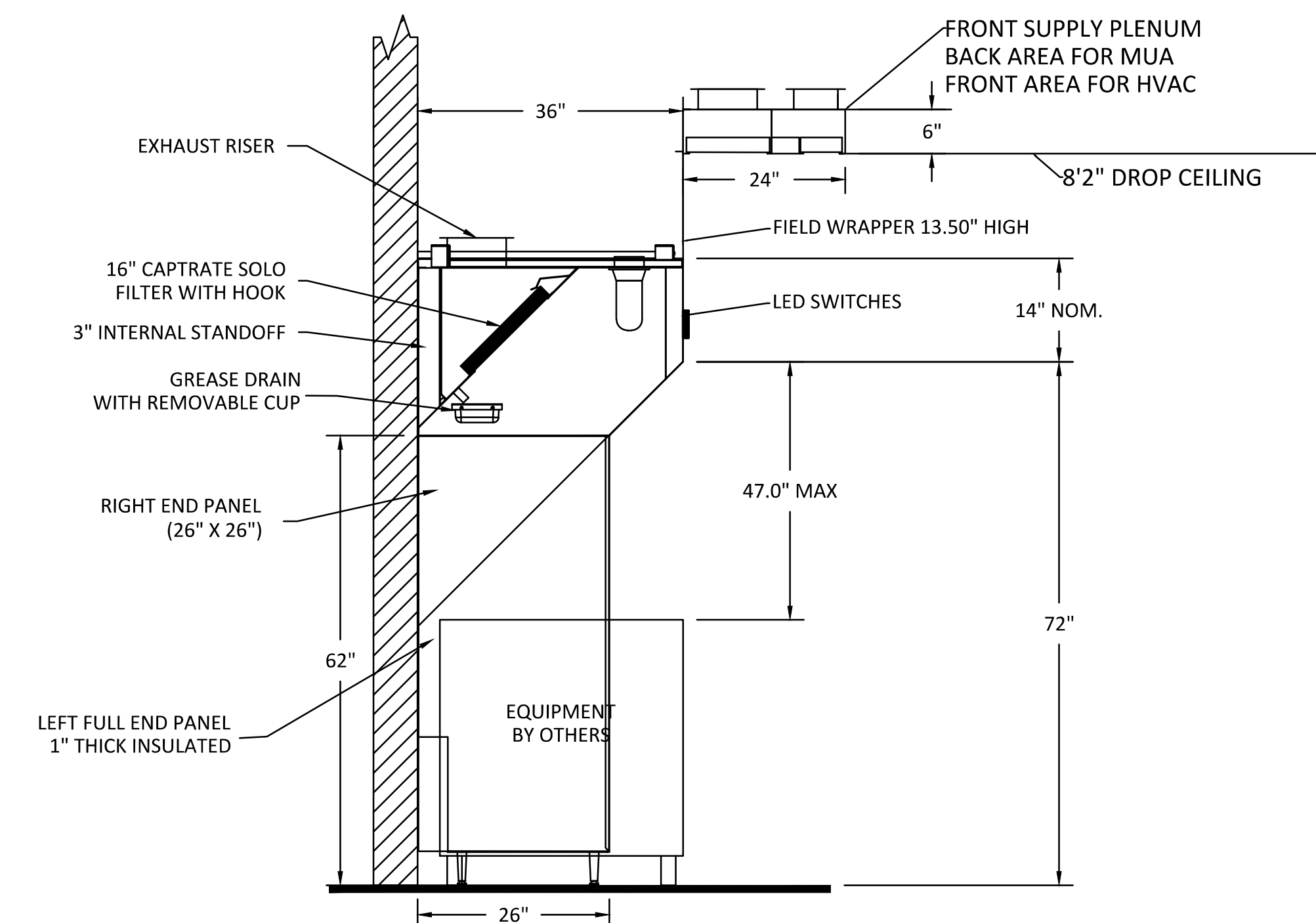


NOTE: PIPING MUST BE INTERNAL TO HOOD AND APPLIANCE. NOZZLES MUST BE PIPED TOWARD THE FRONT (OPERATOR'S SIDE) TO ALLOW OVEN TO BE PULLED OUT. NOZZLES LEFT AND RIGHT OF THE EYEBROW OVEN HOOD SHALL BE HELD TIGHT TO THE TOP FRONT CORNER OF THE OVEN CANOPY AS POSSIBLE.

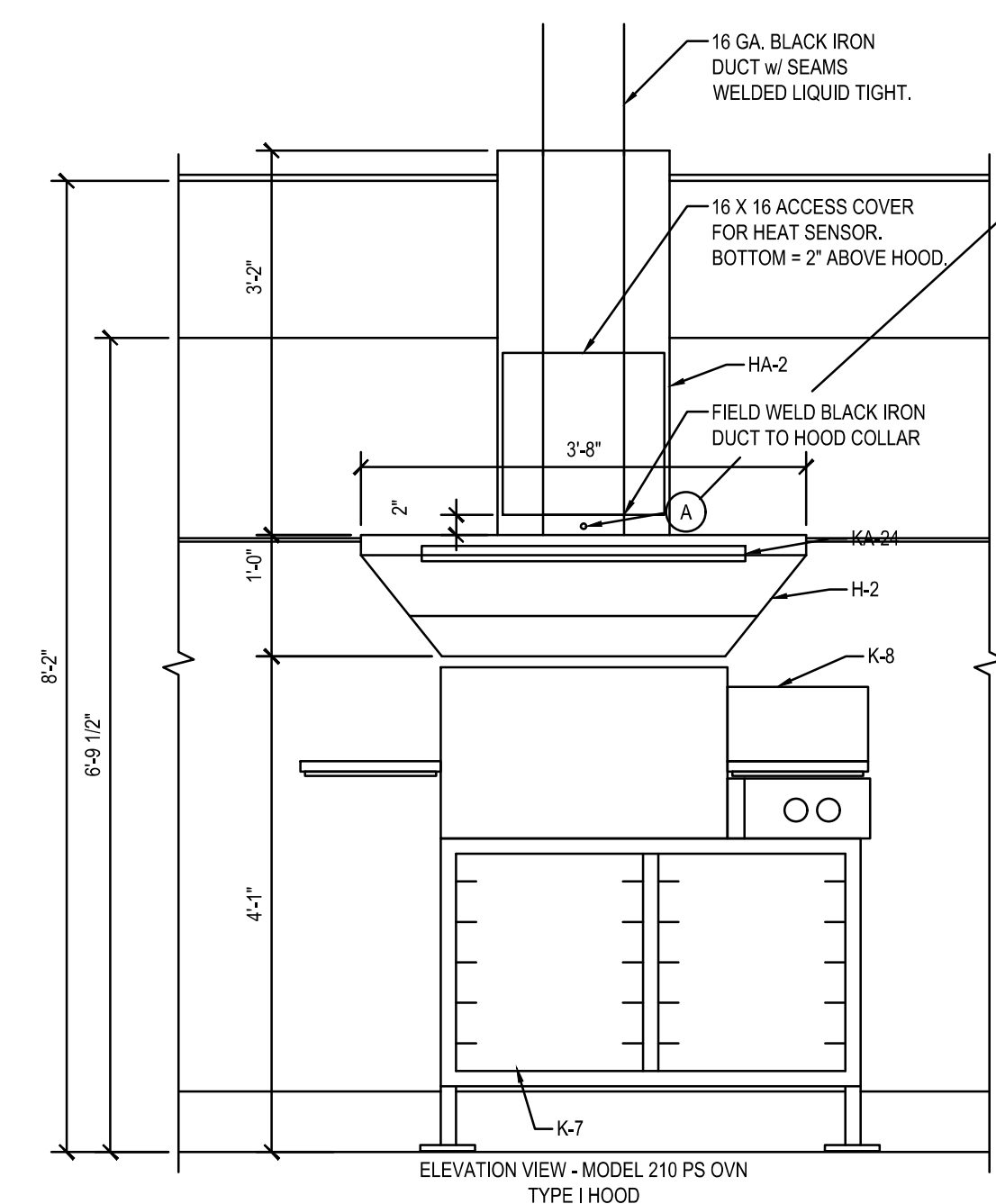
INSTALL DUCT WRAPPER SUCH THAT ACCESS PANEL FOR HEAT SENSOR IS ON THE SAME SIDE AS THE SENSOR ITSELF (OPERATOR SIDE).



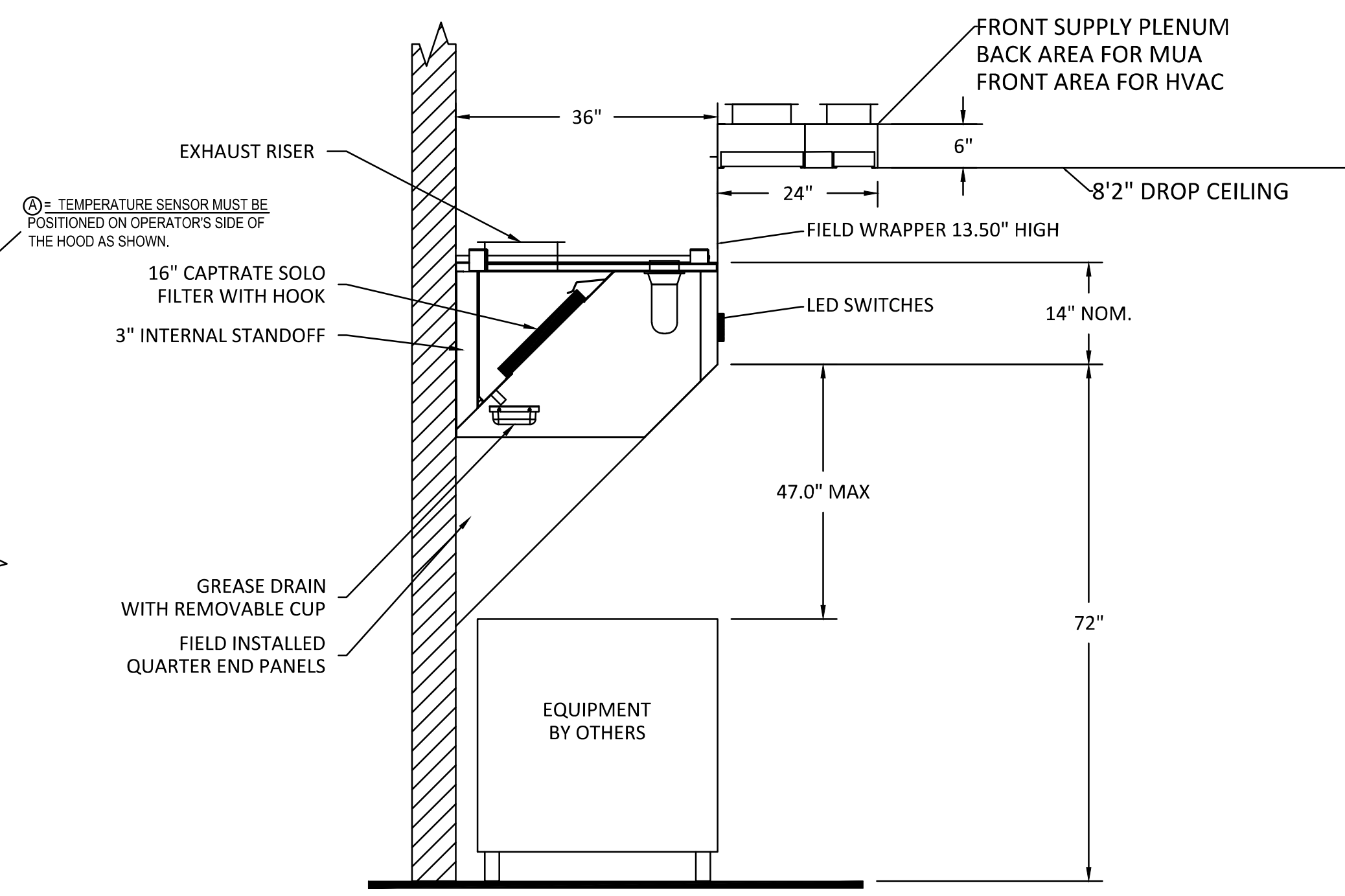
PLAN VIEW - Hood #HD1-Grill
6' 0.00" LONG 3650BD-2
6' 0.00" LONG 246MISC ACPSP-ONLY



SECTION VIEW - MODEL 3650BD-2
HOOD - (HD3-Fry)



ELEVATIONS @ COOK LINE
3/4"=1'-0"
HOOD - (HD2-Oven)



SECTION VIEW - MODEL 3650BD-2
HOOD - #HD1-Grill

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EXHAUST FAN INFORMATION - Job#4137855

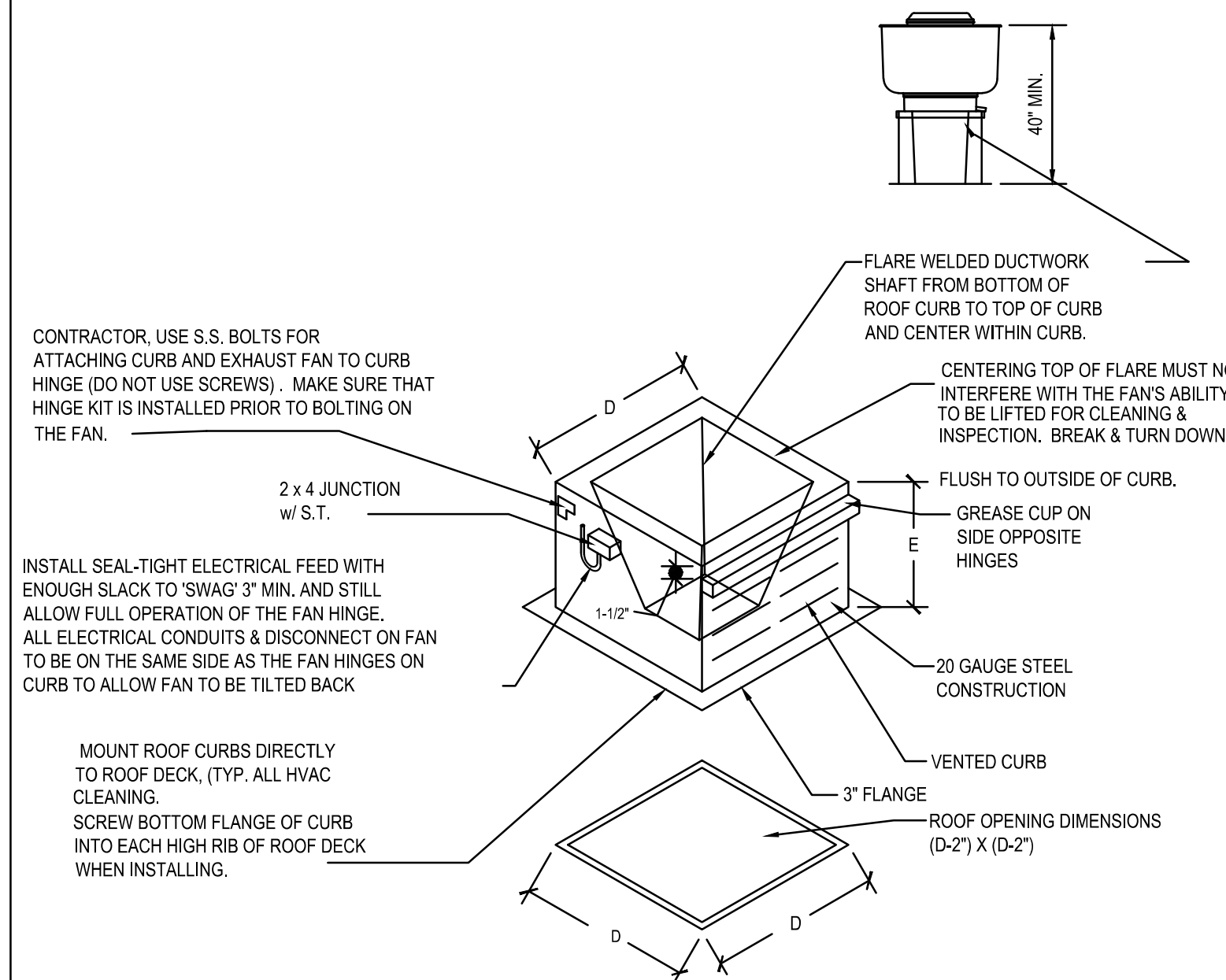
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1 (GRILL)	DU85HFA	1120	1.150	1215	0.750	0.3410	1	115	8.9	354 FPM	89	12.8
2	KEF2 (OVEN)	DU33HFA	600	0.600	1360	0.333	0.2030	1	115	4.3	396 FPM	70	14.1
3	KEF3 (FRY)	DU85HFA	850	1.150	1144	0.750	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	MOC	WEIGHT (LBS.)	SONES
4	HMU1	A1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1630	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	Grill Hood Curb
2	#2	KEF2 - OVEN	38 LBS	Curb	19.500"W x 19.500"L x 30.000"H	Oven Hood Curb
3	#3	KEF3 - FRYER	44 LBS	Curb	23.000"W x 23.000"L x 30.000"H	Fryer Hood Curb
4	#4	HMU1	63 LBS	Curb	21.000"W x 71.000"L x 16.000"H	Hood MUA Curb



TYPICAL ROOF CURB DETAIL

FAN OPTIONS

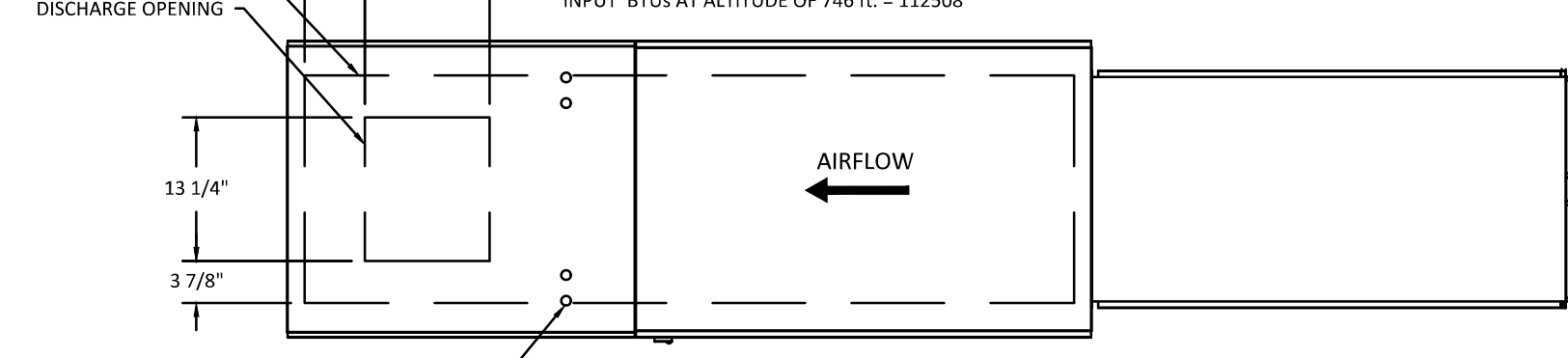
FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF1	1 - Grease Box 1 - Exhaust Fan Heat Baffle 1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts 1 - ECM Wiring Package-Exhaust - PWM Signal from ECPM03 Prewire (NIDEC Motor)
2	KEF2	1 - Grease Box 1 - Exhaust Fan Heat Baffle 1 - Fan Base Ceramic 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) 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
4	HMU1	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)	-	- 600
KEF-3	HD3 (FRYER)	-	- 850
HMU-1	HDS 1 & 3	+ 1630	-
EF 4/5	TOILETS	-	- 225
HVAC	BUILDING	+ 1350 (MIN)	-
NET		+185 CFM	

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

SUPPLY SIDE HEATER INFORMATION:

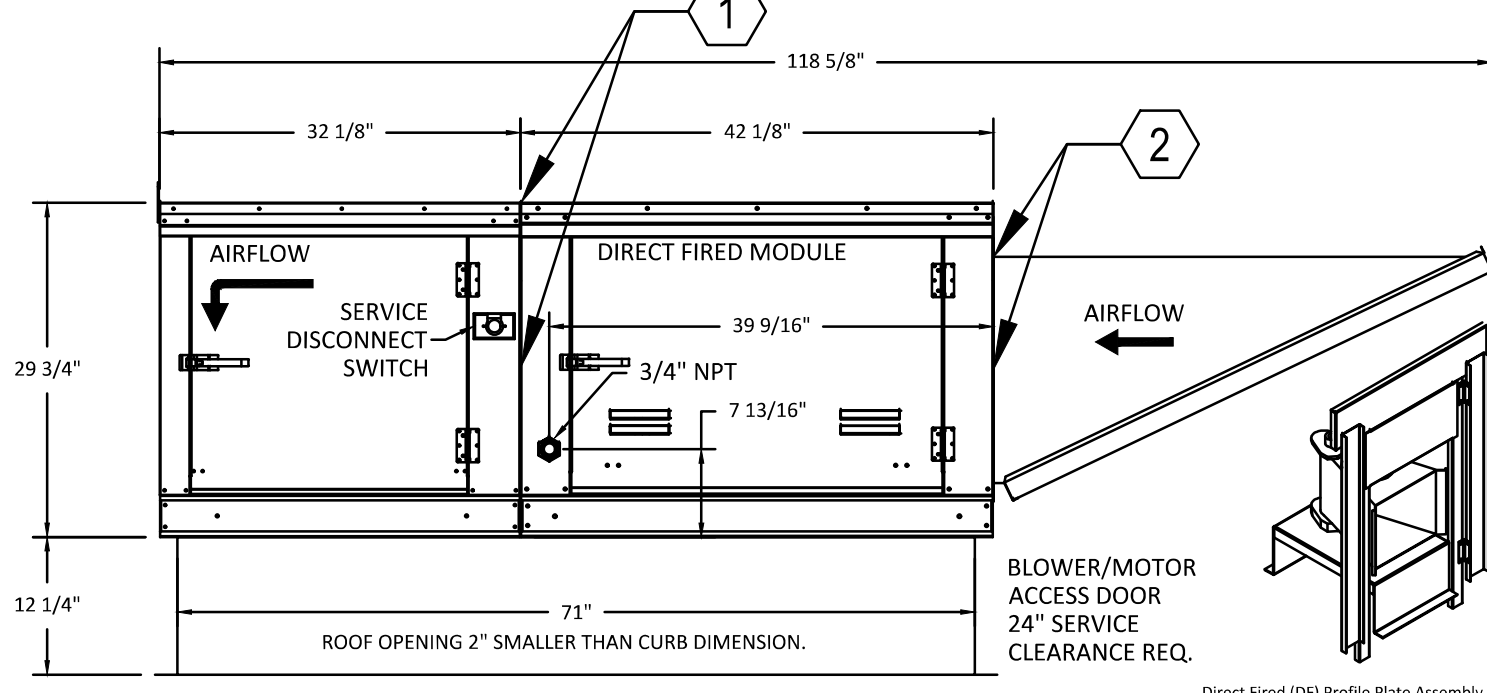
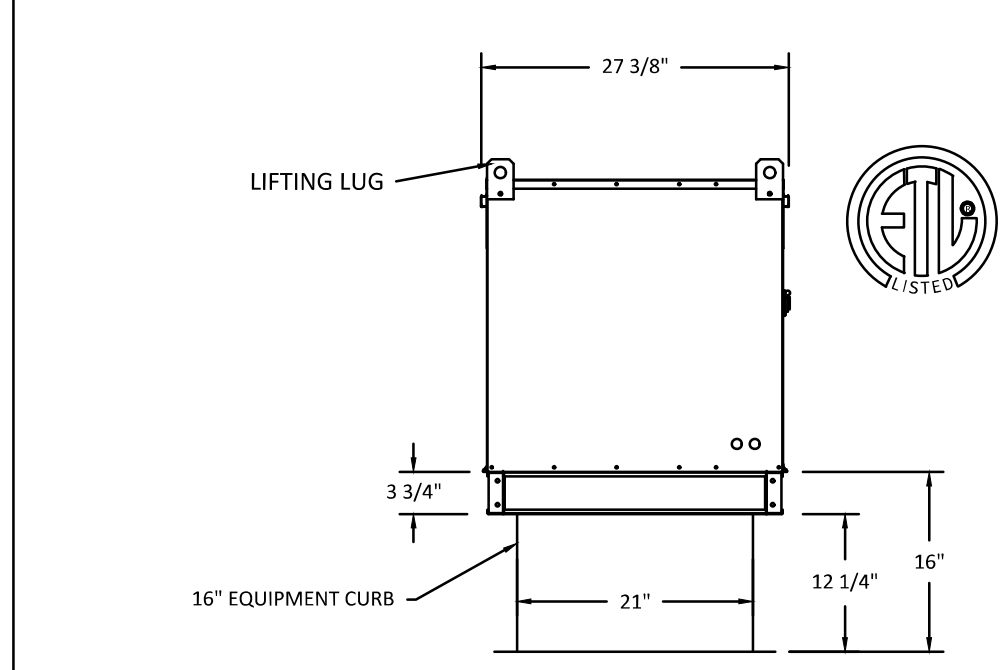
WINTER TEMPERATURE = 12°F. TEMP. RISE = 63°F.
BTUS CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUS AT ALTITUDE OF 0.0 ft. = 106943
INPUT BTUS AT ALTITUDE OF 0.0 ft. = 115590
OUTPUT BTUS AT ALTITUDE OF 746 ft. = 103507
INPUT BTUS AT ALTITUDE OF 746 ft. = 112508



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	HMU1	110372	101542	63 deg F	7 in. w.c. - 14 in. w.c.	Natural	92

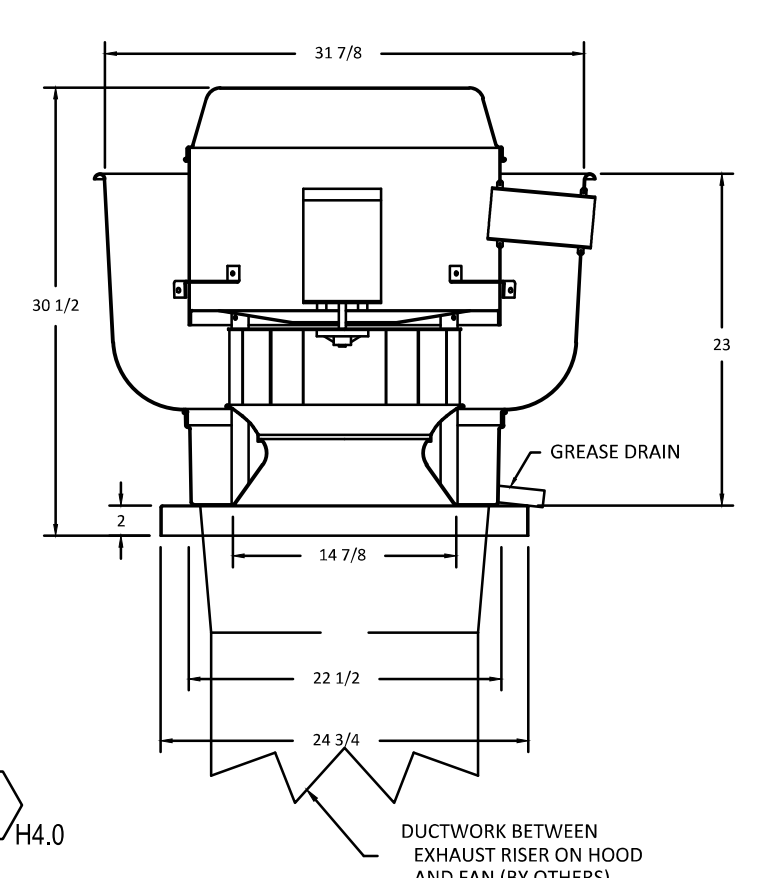
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14" x 48" LONG.



- 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)



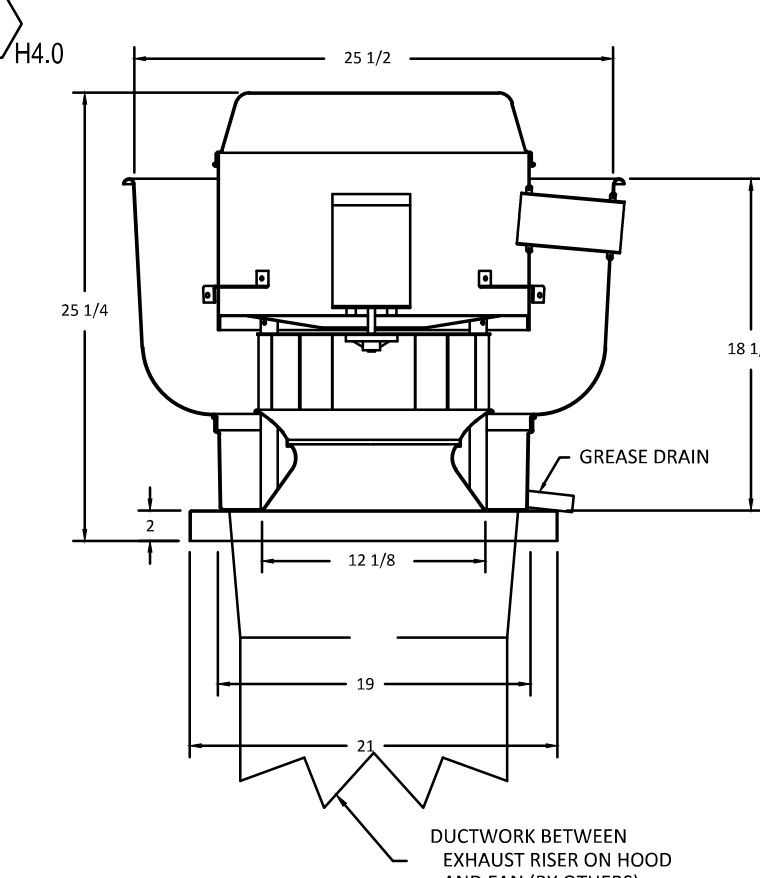
- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FANS
 - RESTAURANT MODEL
 - UL705 AND UL762 AND UL6-5645
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
 - WEATHERPROOF DISCONNECT
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
 - HIGH HEAT OPERATION 300°F (149°C)
 - GREASE CLASSIFICATION 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)



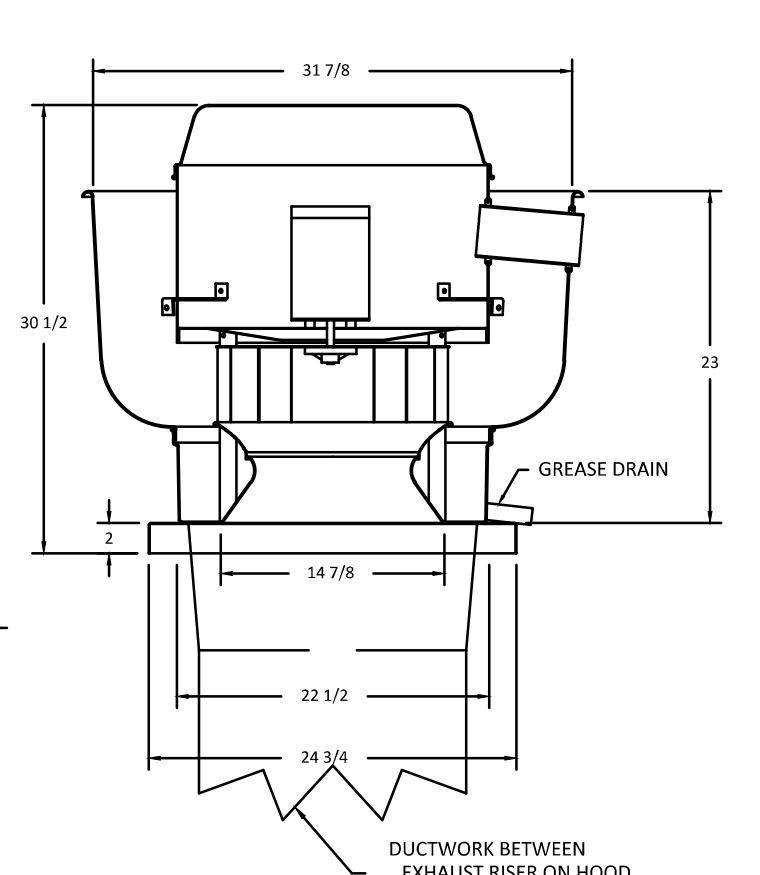
- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FANS
 - RESTAURANT MODEL
 - UL705 AND UL762 AND UL6-5645
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
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FAN #1 DU85HFA - EXHAUST FAN (KEF1)

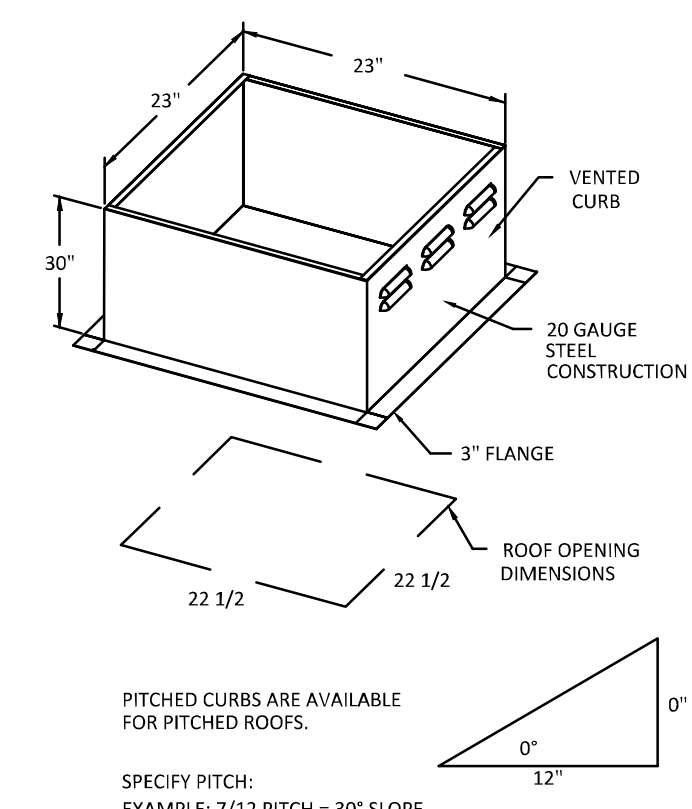


- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
 - ROOF MOUNTED FANS
 - RESTAURANT MODEL
 - UL705 AND UL762 AND UL6-5645
 - VARIABLE SPEED CONTROL
 - INTERNAL WIRING
 - WEATHERPROOF DISCONNECT
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
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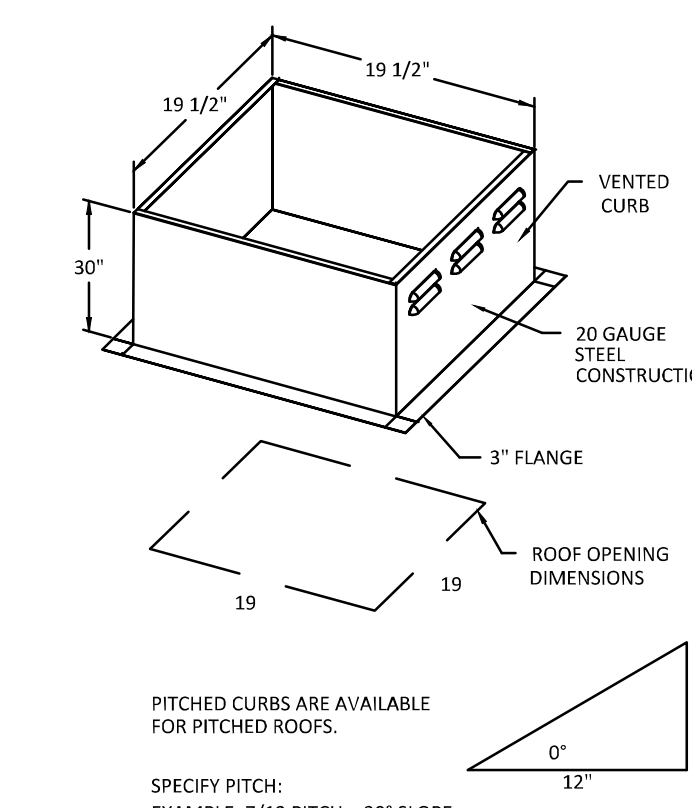
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.

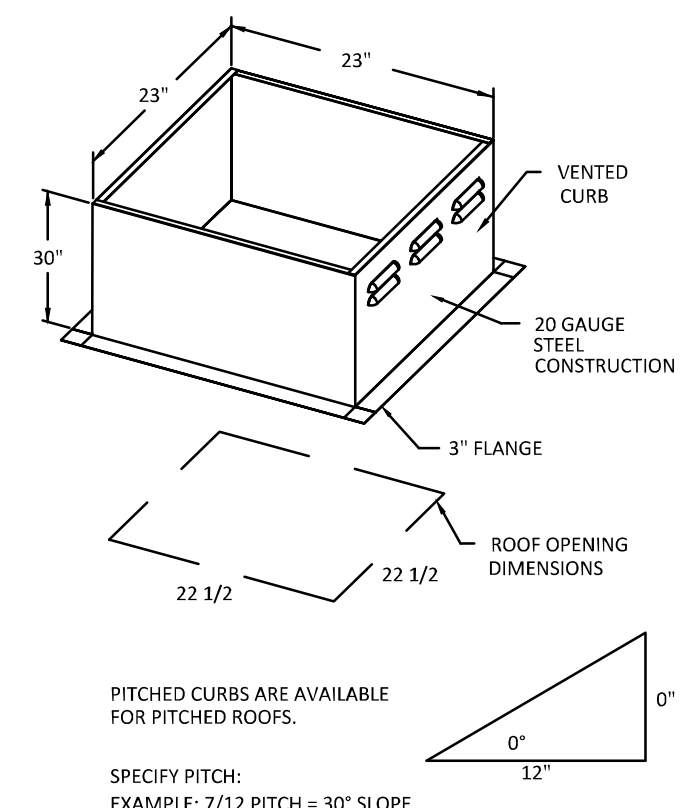
- OPTIONS**
- GREASE BOX.
 - EXHAUST FAN HEAT BAFFLE.
 - FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
 - ECM WIRING PACKAGE-EXHAUST - PWM SIGNAL FROM ECPM03 PREWIRE (NIDEC MOTOR).



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



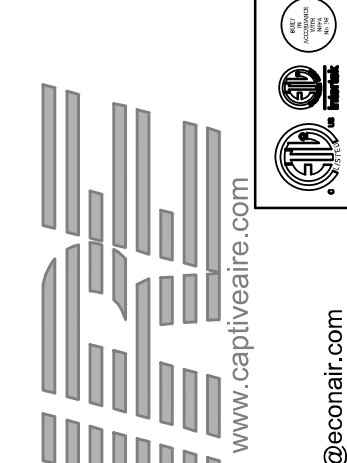
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SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

REVISIONS

DESCRIPTION	DATE



CAPTIVE-AIRE

Penn Station V2B-R

DATE: 10/13/2023
DWG.#: 6277370
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

29 HIGH STREET
Milford, Ohio 45150
513.752.7800
Fax: 513.752.7833
www.KBAinc.com

SHEET CONTENTS:
MECHANICAL - HOOD DWGS



2230 PARK AVE., STE. 100
CINCINNATI, OH 45206
513.457.7131
WWW.MARQUEENG.COM

NEW TENANT FINISH FOR:



3040 DIXIE HWY HAMILTON, OH 45015

REV. DATE CK'D

Drawn By: JJR Checked By: JJW

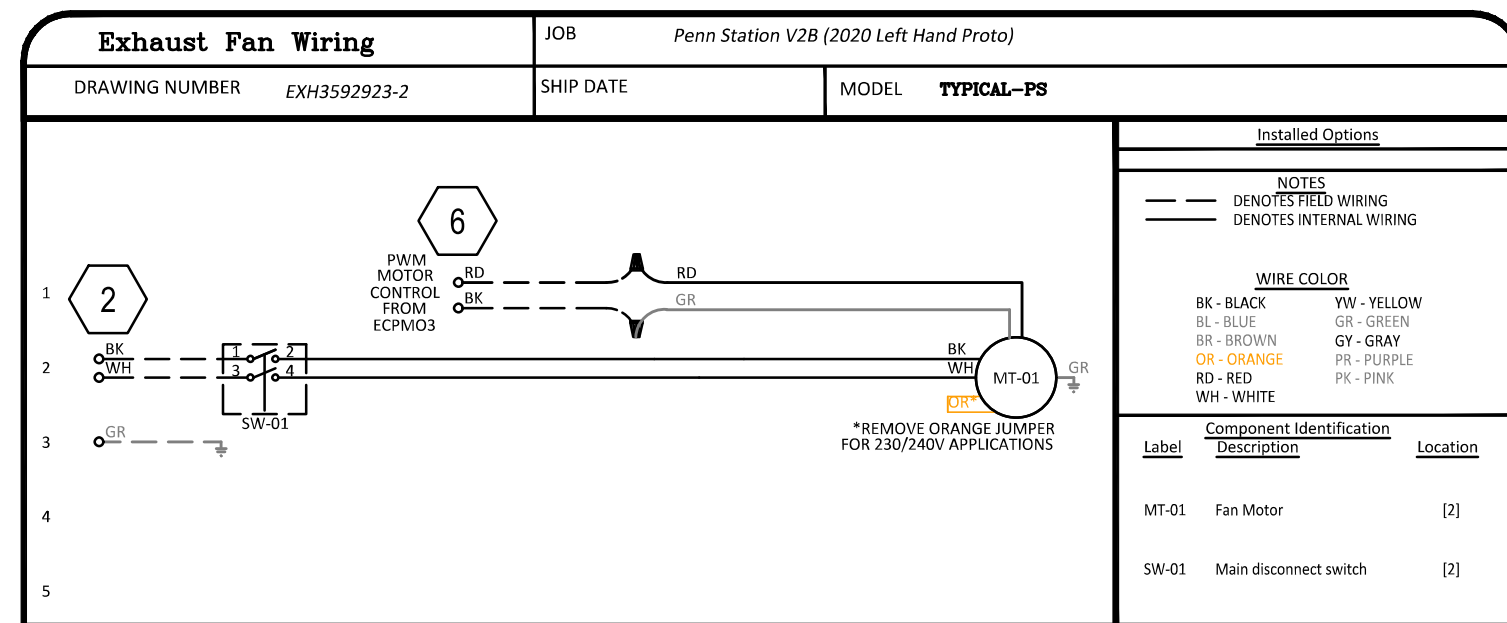
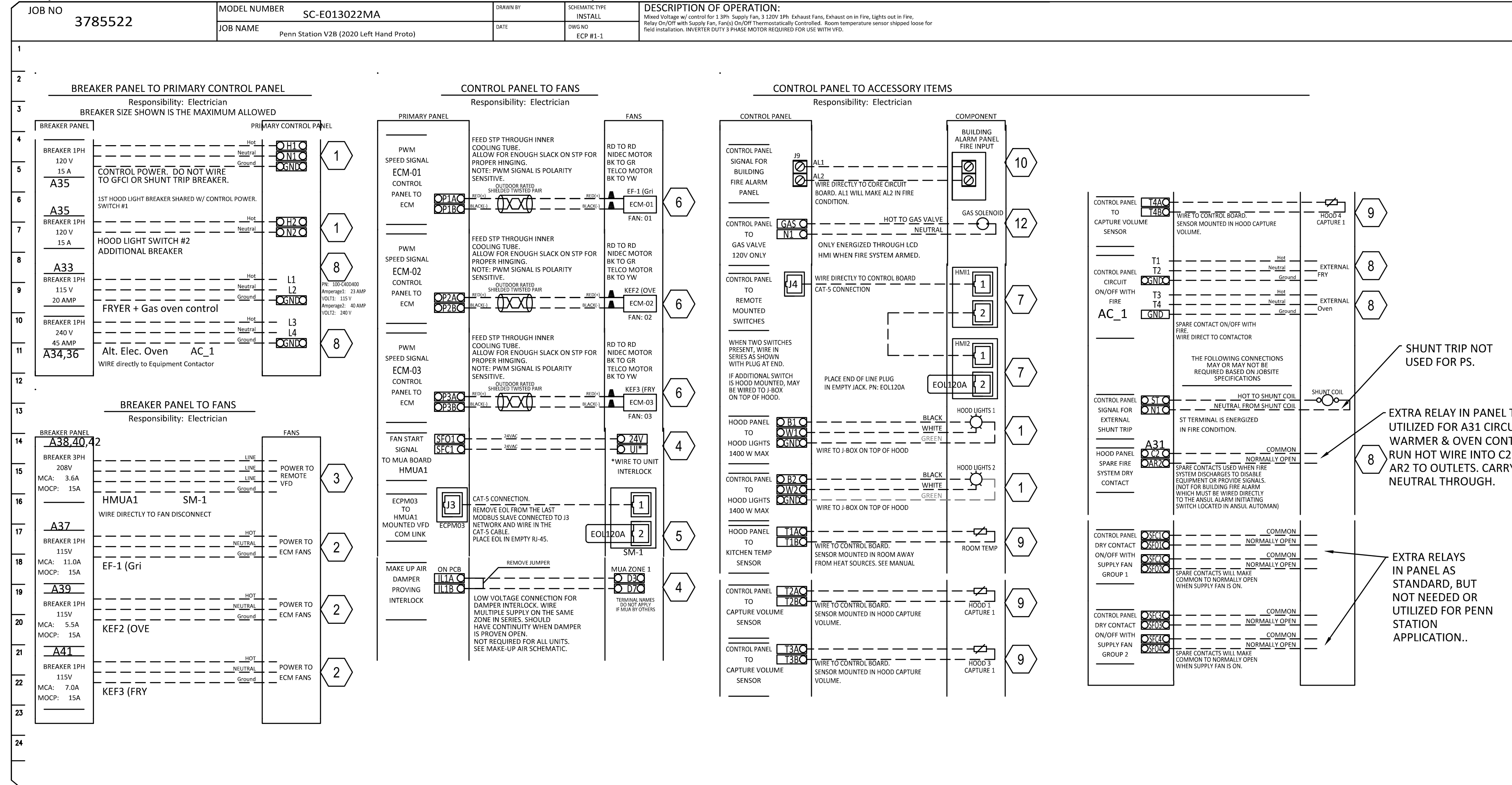
Date: Job No: MQE #12578

H3.0

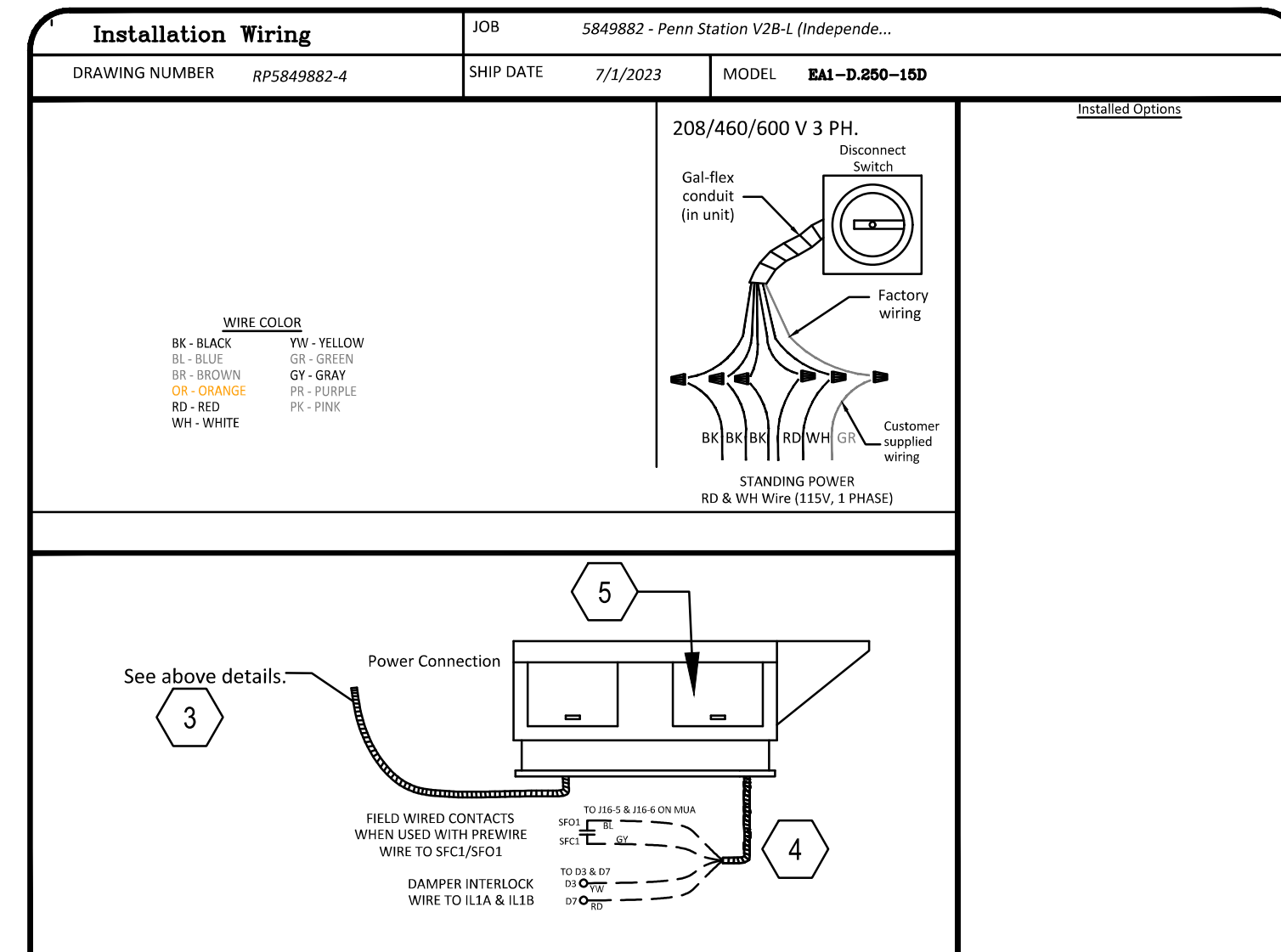
ELECTRICAL PACKAGE - JOB#5849882

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	ECF1	SC-E013022MA	WALL UTILITY CABINET RIGHT	FACE MOUNT RIGHT SIDE OF HOOD	2 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEF1	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	8.9
							HMUA1	SUPPLY	3	1.500	208	4.4

(HOOD CONTROL PANEL-MOUNTED NEXT TO GRIDDLE HOOD)



TYPICAL - ALL 3 EXHAUST FANS



MAKE-UP AIR UNIT HMUA-1

HOOD SYSTEM WIRING INSTRUCTIONS BY ELECTRICIAN

- WIRE 120V, 1 PHASE CIRCUIT FROM BUILDING PANEL TO HOOD CONTROL PANEL TO BE USED FOR CONTROLS & LIGHT CIRCUIT.
- 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).
- WIRE 208V, 3 PHASE CIRCUIT FROM BUILDING PANEL TO TO MAKE UP AIR FAN ON ROOF & TIE INTO WHIP OFF DISCONNECT SWITCH WITH GROUND.
- RUN A 18-4 LOW VOLTAGE WIRE FOR 24V CIRCUIT FROM SFO1 & SFC1 OF CONTROL PANEL TO THE MAKE UP AIR FOR HEATER CONTROLS J16 PINS 5&6. ALSO INSTALL LOW VOLTAGE FROM D3/D7 OF HEATER TO IL1A & IL1B OF CONTROL PANEL.
- 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.
- 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 BREATHING TUBE & THEN DOWN TO HOOD CONTROL PANEL NEXT TO GRILL HOOD. TIE EACH ONE INTO P#A & P#B RESPECTIVELY FOR EACH FAN AS SHOWN ON SCHEMATIC TO THE LEFT.
- 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). 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). YOU ARE WIRING THE SWITCHES (HMI PANELS) IN SERIES. SEE H1.0, H2.0
- WIRE THE 120V 1 PHASE FRYER(S)/WARMER CIRCUITS & THE 240V 1 PHASE ALT. ELEC. 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.
- 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.
- IF BUILDING ALARM IS PROVIDED WITH BUILDING THEN WIRE DIRECTLY INTO AL1 & AL2 OF THE CONTROL PANEL 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 TR2 & C2 OF CONTROL PANEL.
- 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 PACKAGE.
- WIRE POWER FROM G & N1 FROM CONTROL PANEL TO CAS SUPPLIED ELECTRIC GAS VALVE FOR GAS SHUT OFF. MAKE SURE ELECTRIC GAS VALVE IS INSTALLED HORIZONTALLY TO WORK PROPERLY.
- PLUG A CAT5 WIRE INTO COMMUNICATION MODULE TO ROUTER IS RECOMMENDED TO MONITOR THE FIRE SYSTEM 24/7.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE-AIRE

1329 East Kemper Rd., Ste. 4210, Cincinnati, OH 45246 PHONE: (513) 860-5555 EMAIL: reg12@captveaire.com

DATE: _____

DWG.#: 6277370

DRAWN BY: _____

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

MASTER DRAWING

SHEET NO. 4

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.

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



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SHEET CONTENTS:
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NEW TENANT FINISH FOR:

3040 DIXIE HWY HAMILTON, OH 45015

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Drawn By: EGChecked By:JWQ

Date: Job No:
 MQE #12578

