

CLIFTON TOWN ARCHTECTURAL REVIEW BOARD REGULAR MEETING THURSDAY, SEPTEMBER 29, 2022, 7:30 PM WAYNE H. NICKUM MEETING HALL 12641 CHAPEL ROAD CLIFTON, VIRGINIA 20124

**Present:** Royce Jarrendt, Chair; Town Council Representative Member Regan McDonald;

Phyllis Lovett; Jeff Stein; Geri Yantis.

Staff: Amanda Christman, Zoning Clerk.
Absent: Dwayne Nitz; Phoebe Peterson.

The Regular Meeting was called to order by Chair Jarrendt at 7:30 PM.

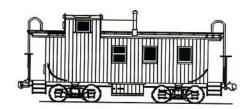
#### Order of Business:

- 1. Commercial Application:
  - a. Clifton Cafe

See attached application.

- Member Lovett move to approve the application as presented, seconded by Member Stein. The motion was approved by poll, 4-0.
- 2. Approve August 25, 2022 Minutes.
  - Member Stein moved to approve the August 25, 2022 meeting Minutes as presented, seconded by Chair Jarrendt. The motion was approved by poll, 3-0-1 (Member Lovett abstained).
- 3. Adjournment.

The Meeting was adjourned by general acclamation.



#### CLIFTON ARCHITECTURAL REVIEW BOARD TOWN OF CLIFTON, VIRGINIA APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

DATE OF APPLICATION: $Y^{-\frac{1}{7}} - 22$	
NAME OF APPLICANT OR AGENT: GIAN	PIERO MA)Zi
ADDRESS: +164 MAIN STREET CLICT	ON 1/A 2012/
TELETIONE. 40 3 TO LOZZIZ. EMAIL	MAN PULLRIOS COUNTR COM
LOCATION OF PROPERTY INCLUDING STREET A	ADDRESS AND TAX MAP
NUMBER:	
GENERAL DESCRIPTION OF PROPOSAL:	a Parameter and the second of
instelling Kitchen hood at the	he cafe with o ways
On the Book.	/
Account to the second s	
A MITTAL COLUMN	
ATTACHMENTS:	
✓ APPLICATION FEE*	
Two (2) HARD COPIES AND ONE ELECTRO	NIC COPY OF APPLICATION WITH
PLATS, ARCHITECTURAL DRAWINGS, FL	OOR PLANS ETC
I UNDERSTAND THAT ALL SUBMISSION REQUIR	REMENTS MUST BE MET BEFORE
THE ARB WILL REVIEW AN APPLICATION	
11	
SIGNATURE OF APPLICANT OR AGENT	DATE
Is the applicant or owner a member of a homeowners' association (h	
approval of the HOA prior to submission of the application.	107 y 100 - 110 ii yes, piedse obtain the
- Providence - Pro	
	P = 1
HOA REPRESENTATIVE (NAME/SIGNATURE)	DATE OF HOA APPROVAL
CERTIFICATE ISSUED: YES	NO
(When marked "YES" and signed, this document become	es the "certificate of Appropriateness")
BY:	DATE
CHAIRMAN, ARB	DATE
ARB MEMBERS' INITIALS:	
CONDITIONS:	
IF CERTIFICATE IS NOT TO BE ISSUED, THE ARB	SHALL STATE THE BOARD'S
REASON:	
44 11 0 6	

\*Application fee:

Sign/Fence: \$10.00; if after installation: \$50.00 Addition/remodeling project up to 200 SF: \$100.00 Addition/remodeling project exceeding 200 SF \$250.00

New home construction: \$250.00

The applicant shall also pay any actual costs of any review fees incurred by the ARB, including any consultant's fees and other costs set forth in Virginia State Code Section 15.2-2286.

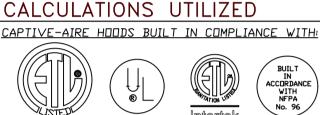
\*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

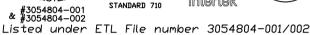
HANGING	3 ANGLE	DETAIL	S
HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND-2	150	200	250
CANOPY ND-2 W/ END PANELS	105	140	175
SLOPED SND-2	228	294	_
ISLAND ND-2WI	269	300	350
ISLAND ND-2I	346	422	475

ETL HOOD LISTING DETAIL EXHAUST CFM = LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

> SUPPLY CFM = EXHAUST CFM X PERCENTAGE REQUIRED TOTAL DUCT AREA (sq. in.) = 144 X -TOTAL DUCT AREA

DUCT LENGTH = DUCT WIDTH \*CAPTIVEAIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUS VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM





BUILDING CODES

& #3054804-001 & #3054804-002

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

CLEARANCE TO COMBUSTIBLES

<u>MATERIAL</u> CLEARANCE REDUCTION SYSTEM NONE REQUIRED NON-COMBUSTIBLE

LIMITED-COMBUSTIBLE 3" UNINSULATED STANDOFF

1" INSULATED STANDOFF COMBUSTIBLE

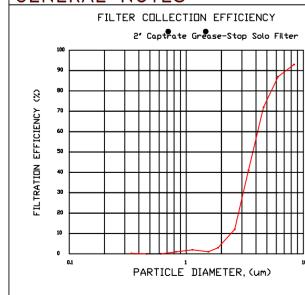
## INSTALLATION

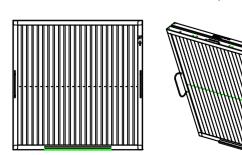
- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
- ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY
- INSTALLING CONTRACTORS. ALL CONNECTIONS FROM CAPTIVEAIRE HOOD PER
- COOKING EQUIPMENT TO SHUT OFF IN EVENT OF FIRE.
- 6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE. ALL LIGHT FIXTURES SHOWN INSTALLED BY CAPTIVEAIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES ARE BY ELECTRICAL CONTRACTOR.
- B. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS. SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- . INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

- 11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN. 12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
- 13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

#### GENERAL NOTES





CaptiveAire Captrate Solo Filter ETL Listed Grease Extracting Filters Made From 430 Stainless Stee

SIGNATURE

Your Title

FILTER DETAIL

#### <u> HOOD INFORMATION - JOB#5320438</u> APPLIANCE DESIGN | TOTAL END TO MANUFACTURER LENGTH COOKING TYPE SUPPLY MODEL DUTY | CFM/FT|EXH CFM $R\square W$ CONSTRUCTION WIDTH LENG HEIGHT DIA CFM VEL TEMP SP CFM END 430 SS HEAVY 213 1200 ALONE ALONE ECON-AIR 14" 1598 | 1495 | -0.611 DEG ESX-2-PSP-F WHERE EXPOSED

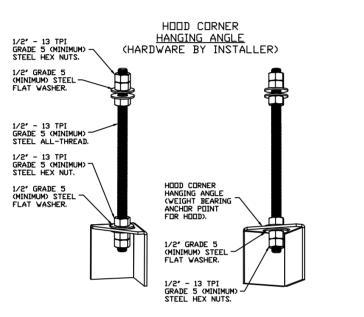
<u>HOOD INFORMATION</u> LIGHT(S) JTILITY CABINET(S FIRE | HOOD HOOD TAG WIRE SYSTEMHANGING LOCATION QTY HEIGHT LENGTH QT TYPE TYPE SIZE TYPE SIZE MODEL # QUANTITY PIPING WEIGHT GUAR: 1 LIGHT 548 YES CAPTRATE SOLO FILTER 20" NO | WALL MNT 16" RECESSED ROUND TANK FS 4.0 DCV-1111 LBS

HOOD OPTIONS TAG OPTION  $\mathsf{N}\square$ FIELD WRAPPER 18.00" HIGH FRONT, RIGHT BACKSPLASH 68.00" HIGH X 91.00" LONG 430 SS VERTICAL LEFT SIDESPLASH 92.00" HIGH X 54.00" LONG 430 SS VERTICAL LEFT END STANDOFF(FIN/SLP) 1" WIDE 54" LONG INSULATED HD-1 INSULATION FOR TOP OF HOOD. INSULATION FOR BACK OF HOOD. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 68" HIGH

PERFORATED SUPPLY PLENUM(S)

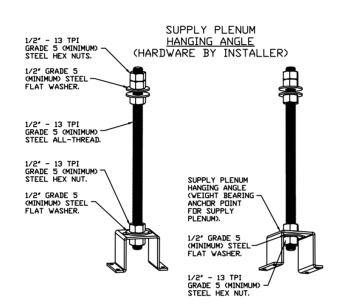
LEFT WALL AS END PANEL.

<del>+ + + + + + + + + + + + + + + + + + + </del>	<u> </u>	<del></del>	<u> </u>	<u> </u>	±/±   ~ /						
LIDOD					, ,				RISERC	(2	
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
1	HD-1	Front	91″	20″	6"	MUA	12"	24"		600	0.162"
1	ו חח	Front	71	20	6	MUA	12"	24"		600	0.162"



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.



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CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

### **VERIFY CEILING HEIGHT**

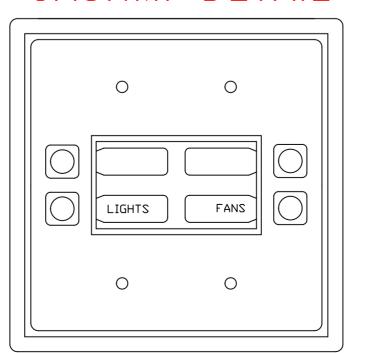
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

## **HVAC DISTRIBUTION NOTE**

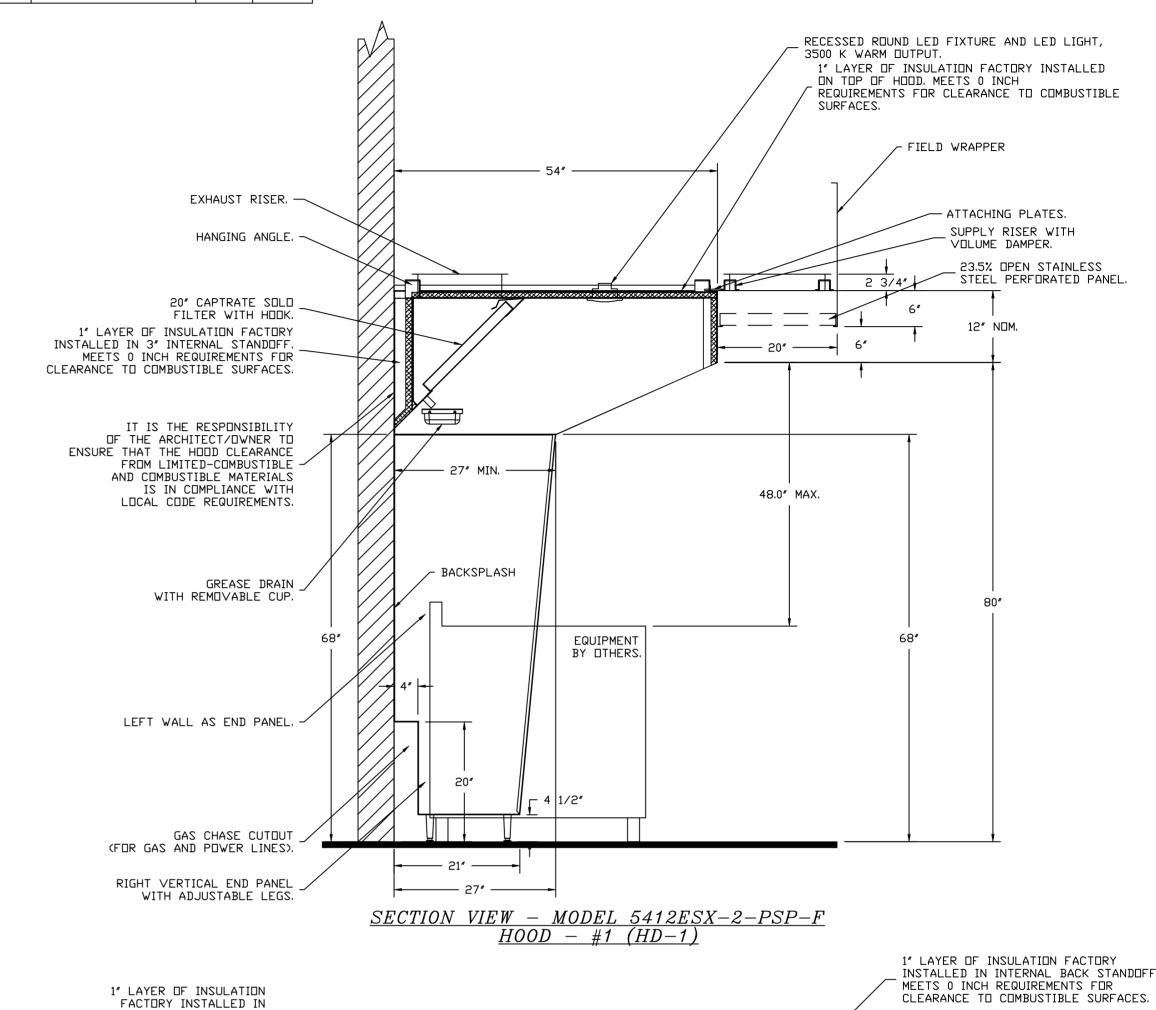
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD, PERFORATED DIFFUSERS ARE RECOMMENDED

CUSTOMER APPROVAL TO	MANUFACTURE:
Approved as Noted	
Approved with NO Exception Taken	
Revise and Resubmit	

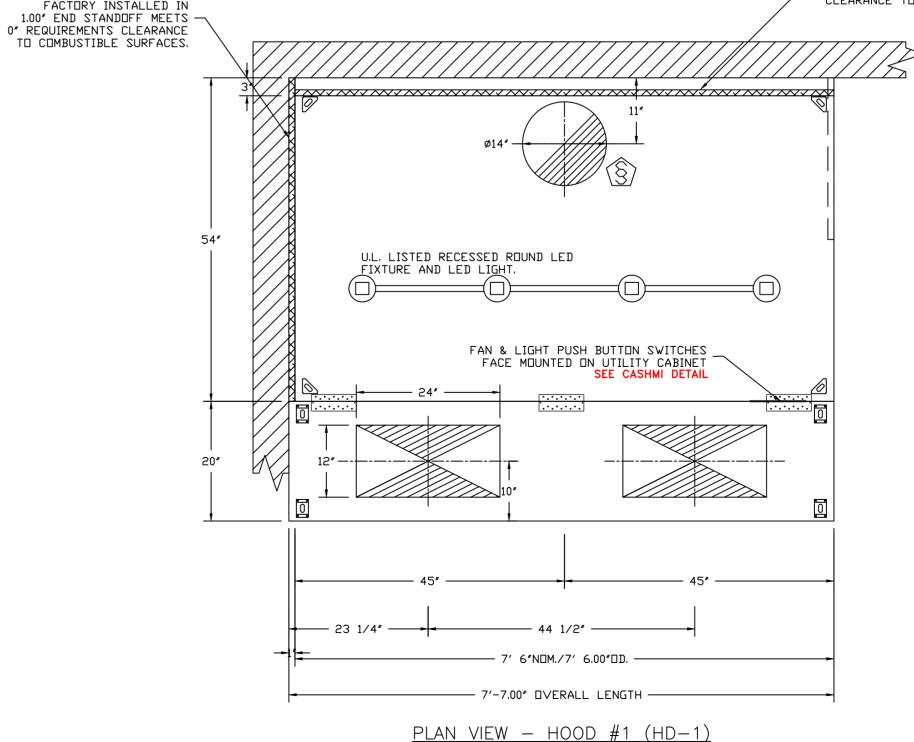
## CASHMI DETAIL



FOR QUESTIONS, CALL THE Northern Virginia Mechanical Bryan Yates PHONE: (703) 214-2101 EMAIL: reg121@captiveaire.com



1 FAN



<u>PLAN VIEW - HOOD #1 (HD-1)</u> <u>6.00" LONG 5412ESX</u>-2-PSP-F

 $\bigcirc$ **DATE:** 2/9/2022 DWG.#:

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4

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**REVISIONS** 

DRAWN BY: BY-121

**SCALE:** NTS

5320438

SHEET NO.

FIRE	SYSTE	EM INFORMATIO	N - J0B#5320438			
FIRE			<i>''</i>	FLOW	INSTALLATIC	IN
SYSTEM NO	TAG	TYPE SIZE		POINTS	SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0	20	WALL UTILITY CABINET LEFT	N/A

#### <u>SPECIFICATIONS</u>

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES, IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE FIRESTAT INSTALLED IN THE HOOD'S DUCT CONNECTION MEASURES TEMPERATURE. IF A TEMPERATURE HIGHER THAN THE SETPOINT (360DEG F) IS SENSED OR A RAPID RISE RATE OF RISE IS DETECTED, THE FIRESTAT CONTACTS WILL CLOSE AND ENGERGIZE THE FIRE SYSTEM.

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE - FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
- MINIMUM 24" CLEARANCE ABOVE HOOD, REQUIRED FOR MAINTENANCE.
- FOR THE FIRST SET OF NOZZLES NEAREST THE TANK, PIPE TO THE END OF THE NOZZLE RUN THEN RETURN THE PIPE TO THE NEAREST NOZZLES TO TANK.

#### JDB #: 5320438.

JOB NAME: CLIFTON CAFE - CLIFTON, VA\_R2.

SIZE, NOT THE OVERALL APPLIANCE SIZE.

SYSTEM SIZE: TANK-SP-1-WC TOTAL FP REQUIRED: 20. HOOD # 1 7' 6.00" LONG  $\times$  54" WIDE  $\times$  12" HIGH. RISER # 1 SIZE: 14" DIA. HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

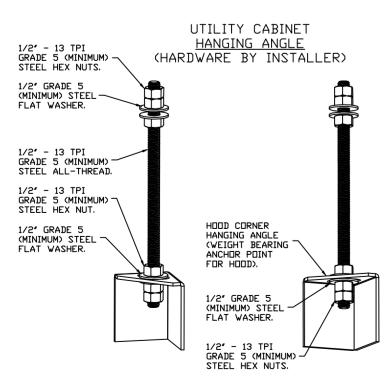
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH. - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION

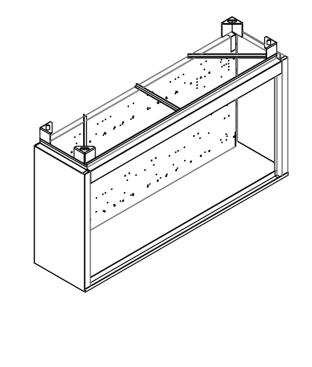
#### LEGEND - FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE. SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

#### WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

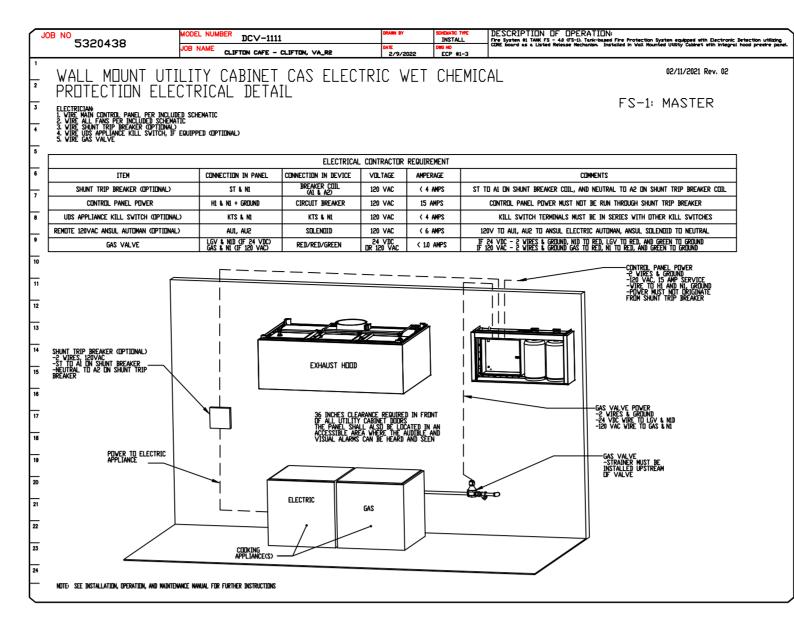
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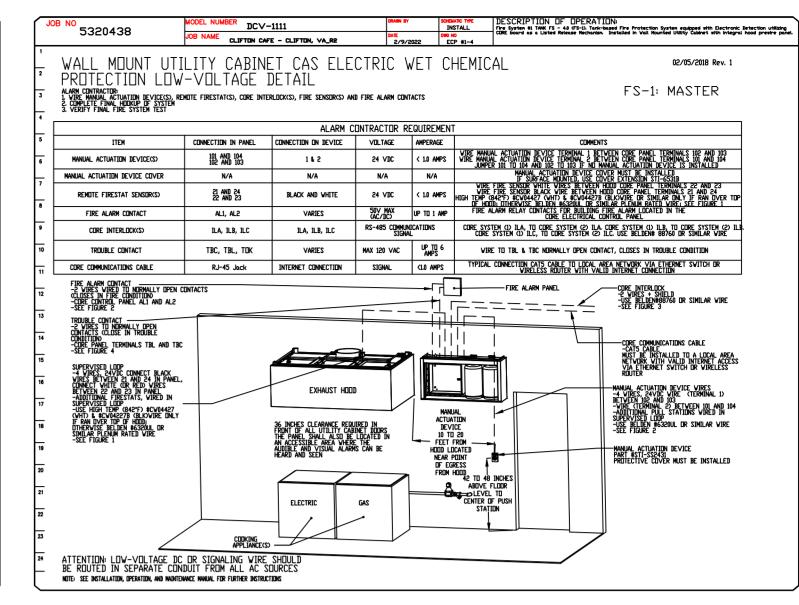


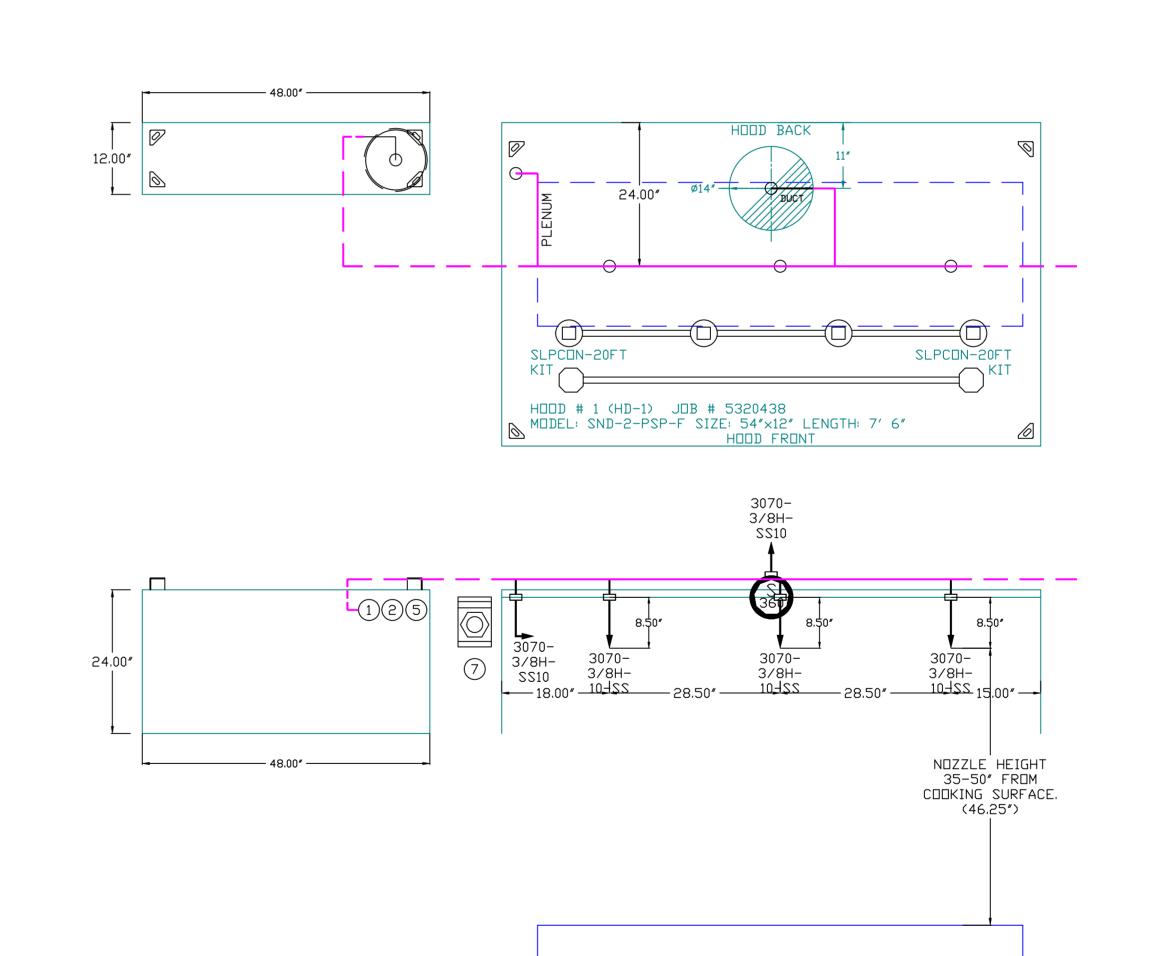


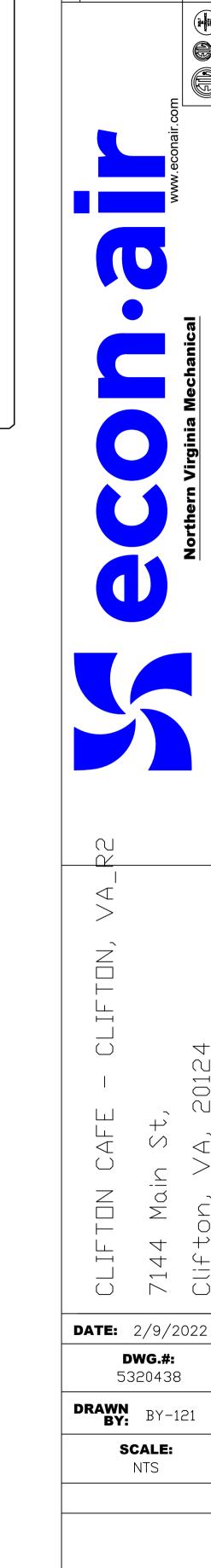
#### WALL-MOUNT UTILITY CABINET

				UTILITY CABINET(S	)		
ПППП			FIF	RE SYSTEM	M ELECTRICAL SWITCHES		
HOOD NO	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	WEIGHT
1	\./ALL MNIT	12"×48"×24"	TANK FS	4.0	DCV-1111	1 LIGHT	240.00 LBS
1	WHLL MINT	16 240 264	THINK 13	4.0	DC V IIII	1 FAN	L+0.00 LDS









 $\Box$ 

SHEET NO.

**REVISIONS** 

EXHA	EXHAUST FAN INFORMATION - JOB#5320438																				
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTU	RER C	CFM ESP		RPM	MD'	TOR ICL	HP	BHP	PHASE	VOLT	FLA		CHAR		WEIGH (LBS)		ES
1	1 KEF-1 1		EADU85H	ECON-AIF	R 16	00	1.350	1444	TEAD	I-ECM	0.750	0.5410	1	115	8.9	50	6 FP	M	88	14	+
MUA	MUA FAN INFORMATION - JOB#5320438																				
FAN UNIT NO	UNIT   TAG   QTY		FAN UNIT MODEL #	BLOWER	HDUSIN		IN I	DESIGN CFM	ESP	RPM		TOR NCL	HP	BHP	PHASE	VOLT	FLA	MCA	МПСР	WEIGHT (LBS)	SONES
2	MAU-1	1	EA1-D.250-15D	15MF-1-MOD	A1-D.25	0 10	00	1200	0.500	1487	TEA	П-ЕСМ	1.000	0.4870	1	115	11.6	14.5A	25A	486	12.4

(	GAS .	FIRED	MAKE-	-UP AII	R UNIT(S)			
	FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
	S	MAU-1	94878	87288	70°F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92

FAN	OPTIO!	VS	
FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX
1	KEF-1	1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
2	MAU-1	1	AC INTERLOCK RELAY - 24VAC COIL
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	ECM WIRING PACKAGE - DD SUPPLY - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR)
		1	2 YEAR PARTS WARRANTY

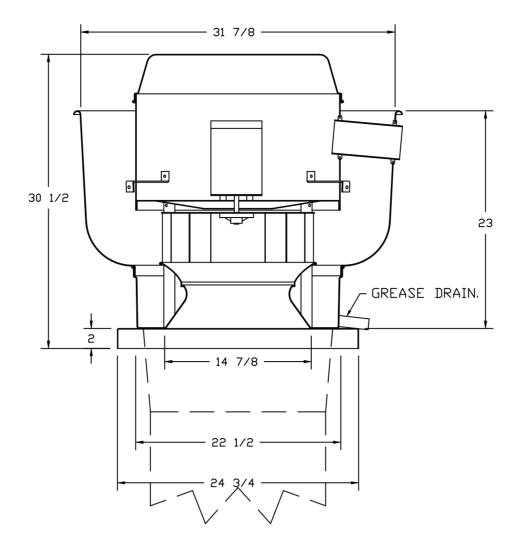
<u> </u>	7AN	ACCES	SORIE	<u>S</u>				
	FAN	TAG		PLY				
	UNIT ND		GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
	1	KEF-1	YES					
	2	MAU-1					YES	·

CUF	RB AS	'SEMBLIES			
N□	□N FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H 4.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	MAU-1	63 LBS	CURB	21.000"W X 71.000"L X 14.000"H 4.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.

FOR QUESTIONS, CALL THE
Northern Virginia Mechanical
Bryan Yates
PHONE: (703) 214-2101

EMAIL: reg121@captiveaire.com

### FAN #1 EADU85H - EXHAUST FAN (KEF-1)



#### FEATURES:

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

# NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED

THERMAL EQUILIBRIUM, AND WITHOUT ANY

AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING

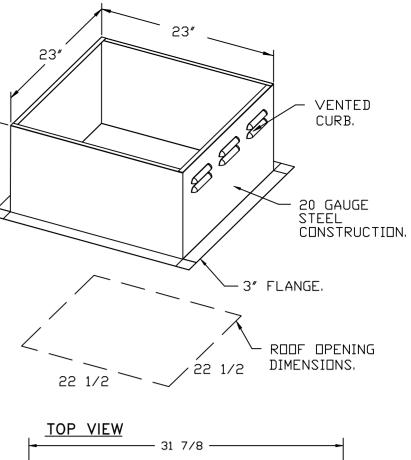
DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY
WHILE EXHAUSTING BURNING GREASE VAPORS

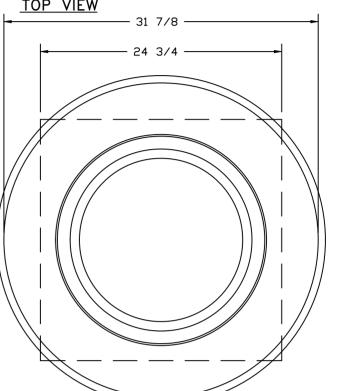
# DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

GREASE BOX.
SHIP LOOSE DISCONNECT FOR REMOTE
MOUNT.
ECM WIRING PACKAGE - PWM SIGNAL FROM
ECPMO3 PREWIRE (TELCO MOTOR), CCW

2 YEAR PARTS WARRANTY.



20"



#### FAN #2 EA1-D.250-15D - HEATER (MAU-1)

- 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
- 2. INTAKE HOOD WITH EZ FILTERS. 3. DOWN DISCHARGE – AIR FLOW RIGHT –> LEFT.
- 4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
- 5. GAS PRESSURE GAUGE, 0-33, 2.3 DIAMETER, 1/4 THREAD SIZE.

  5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.

  6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.

  7. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS DUT BURNER CIRCUIT WHEN AC IS ENERGIZED.

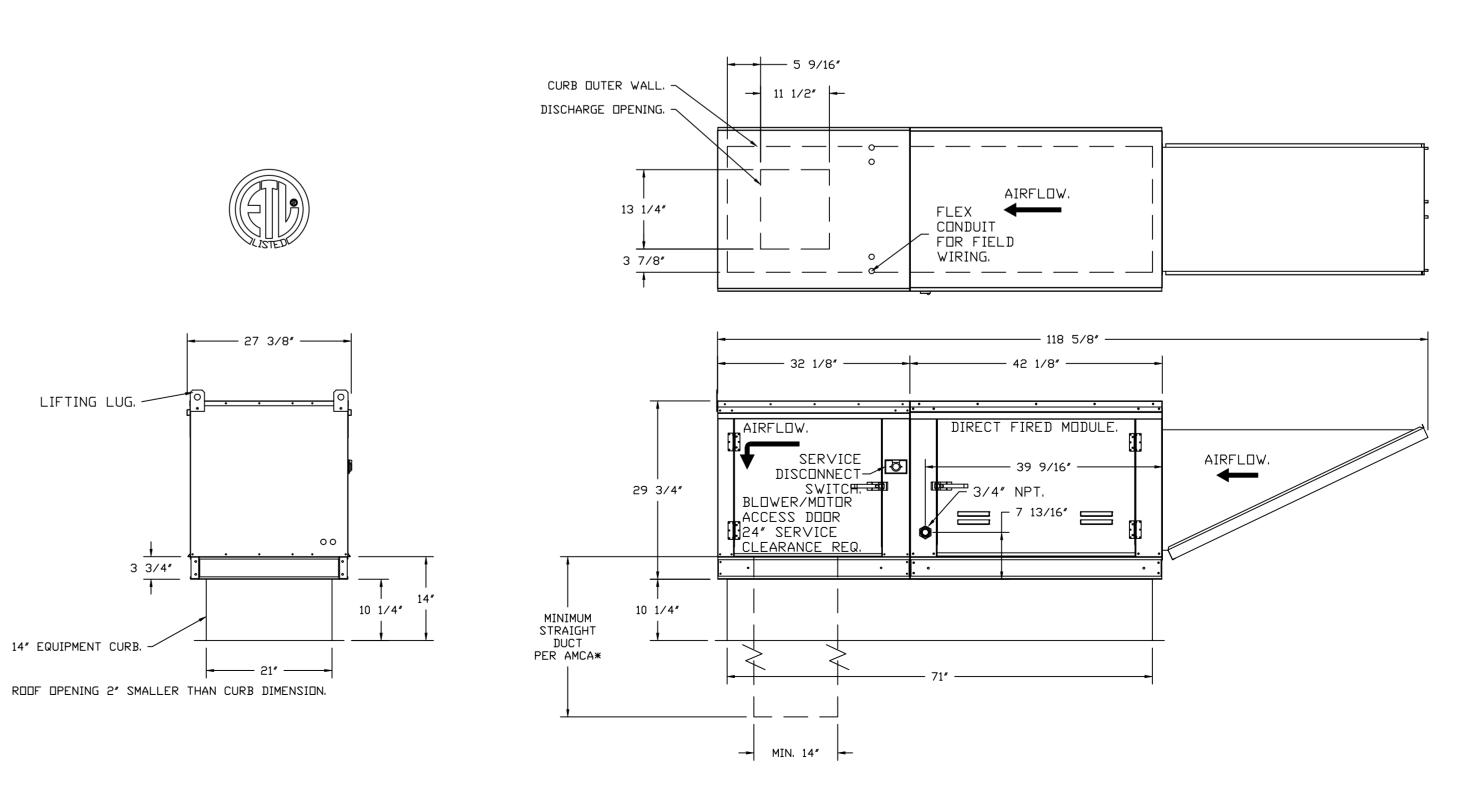
  8. MOTORIZED BASEDUCTION 2/44 DEPOSITION FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD
- GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.

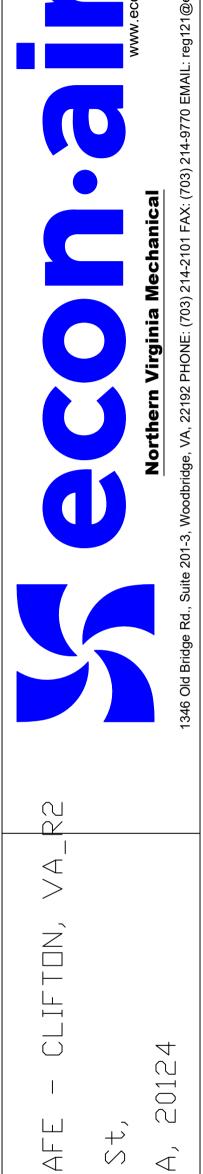
  9. ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECPM03 PREWIRE.
- 10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  11. 2 YEAR PARTS WARRANTY

\*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 14" × 14".

#### SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 16°F. TEMP. RISE = 70°F. BTUS CALCULATED DFF ACTUAL AIR DENSITY. DUTPUT BTUS AT ALTITUDE DF 0.0 FT. = 87932. INPUT BTUS AT ALTITUDE DF 0.0 FT. = 95578. DUTPUT BTUS AT ALTITUDE DF 203 FT. = 87288. INPUT BTUS AT ALTITUDE DF 203 FT. = 94879.





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**DATE:** 2/9/2022

DRAWN BY: BY-121

SCALE:

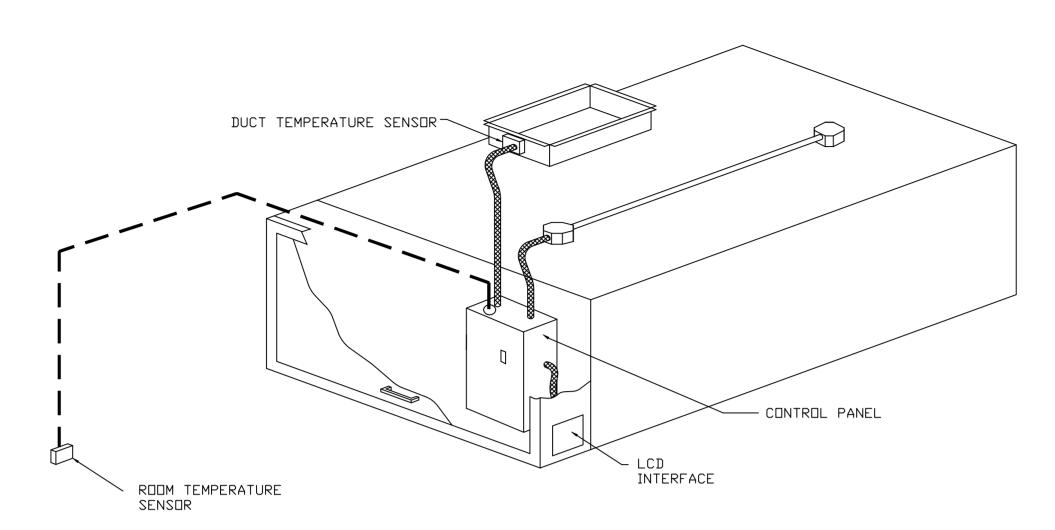
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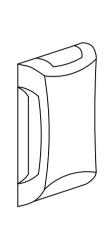
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EI	<b>ECTRICAL</b>	PACKAGE	E - JOB#5320438									
NE	NO TAG P	PACKAGE #		SWITCH	IES	OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ф	HP	VOLT	FLA
	FCP_1	ECP-1 DCV-1111	WALL UTILITY CABINET LEFT	02 - FACE MOUNT RIGHT SIDE OF HOOD	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	1	0.750	115	8.9
	1 ECP-1 DC	DC V -IIII	WALL OTILITE CABINET LEFT	HDDD # 1 1 FAN		STIME CHILES DCV	MAU-1	SUPPLY	1	1.000	115	11.6



TYPICAL HOOD CONTROL PANEL INSTALLATION

### ROOM TEMPERATURE SENSOR



The Room Temperature sensor is a 10K Dhm Thermistor. The sensor provides constant room temperature to the controller. It should be installed on a wall somewhere in the space but not directly under the hood or close to an appliance so that the reading is not affected by heat.

Typically a system will have one room temperature sensor. However, systems configured with 2 fan zones have the option to be ordered with 2 room temperature sensors, one for each zone. They should be mounted in the space accordingly.

### SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

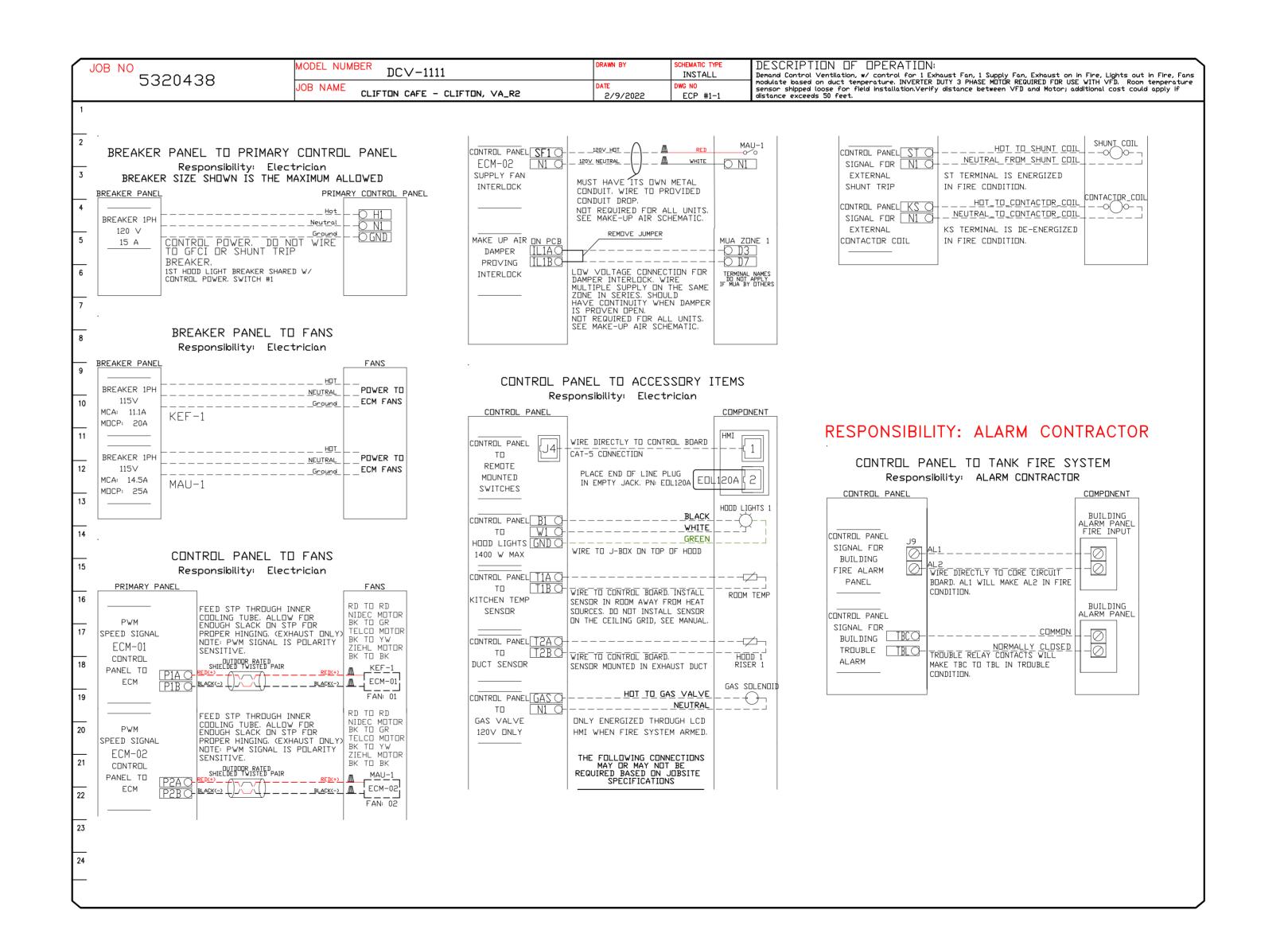
AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR, FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE, IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL, PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE, DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS DUTLINED IN IECC 403.2.8.

MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI

SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY, THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS, ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNDCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).

- <u>FIRE:</u> UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN, FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.



FOR QUESTIONS, CALL THE

Northern Virginia Mechanical Bryan Yates

PHONE: (703) 214-2101 EMAIL: reg121@captiveaire.com

# ELECTRICAL SCHEMATIC FOR COORDINATION PURPOSES

CAPTIVEAIRE ELECTRIC PRE-WIRE CONTROL PACKAGE FIELD WIRING DIAGRAM SHOWN ABOVE. ALL FIELD WIRING BY ELECTRICAL CONTRACTOR. THE PRE-WIRE PANEL IS PROVIDED BY MECHANICAL CONTRACTOR.

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**DATE:** 2/9/2022

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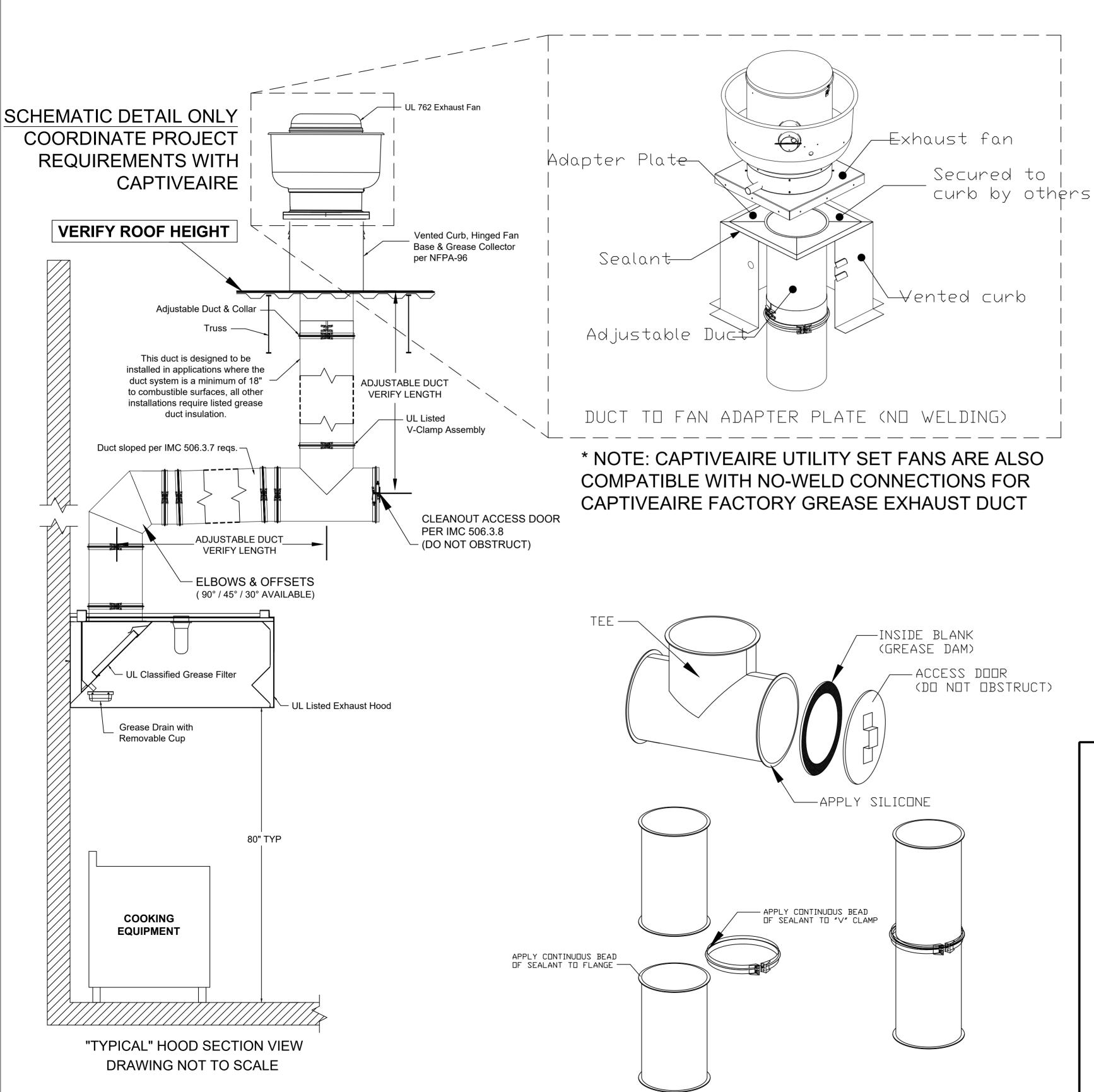
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**SCALE:** NTS

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# GREASE EXHAUST DUCT DETAILS

- > CaptiveAire Grease Exhaust Duct is UL Listed and requires no field welding
- > Complies with IMC and NFPA96 requirements
- > Double-wall pre-insulated ductwork is also available



## **GREASE DUCT SPECIFICATION**

Furnish single-wall, factory built, grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96 Products shall be ETL listed to UL-1978 for venting air and grease vapors from commercial cooking operations as described in NFPA-96.

The duct wall shall be constructed of .036 thick type 430 stainless steel and be available in diameters 8" through 24".

All supports, fan adapters, hood connections, fittings and expansion joints required to install grease duct shall be included.

Roof penetrations shall comply with listed clearance to combustibles, see "Clearance to Combustibles" guide for details. The grease duct will terminate at the fan adapter plate, will be fully welded to the fan adapter plate and the fan adapter plate will be fastened to the curb using a suitably sized fastener provided by others; see page 12 of the "Installation, Operation and

Grease duct joints shall be held together by means of formed vee clamps and sealed with 3M Fire Barrier 2000+. Screws used to secure the vee clamps shall be of the hex-head type with flanged stops and tapered "lead in" threads for easy starting. Nuts shall be retained by means of a free-floating cage to allow easy alignment.

Single-Wall Grease Duct shall be installed in accordance with the manufacturer's "Installation, Operation and Maintenance Manual", ETL listing and state and local codes. Grease duct installed outside of the building shall be protected against accidental damage or vandalism.

Support vertically installed grease duct from the building structure using rigid structural supports. Anchor supports to the structure by welding or bolting steel expansion anchors or concrete inserts. Support horizontally installed grease duct from the building structure using above method or use Duct Mate, Wire Rope & Clutchers, part numbers WR20 & CL20. 1/2" Threaded rod and saddles may also be used for the support of horizontal grease duct.

Fans shall be supported independently from the grease duct sections. Protect grease duct from twisting or movement caused by fan torque or vibration.

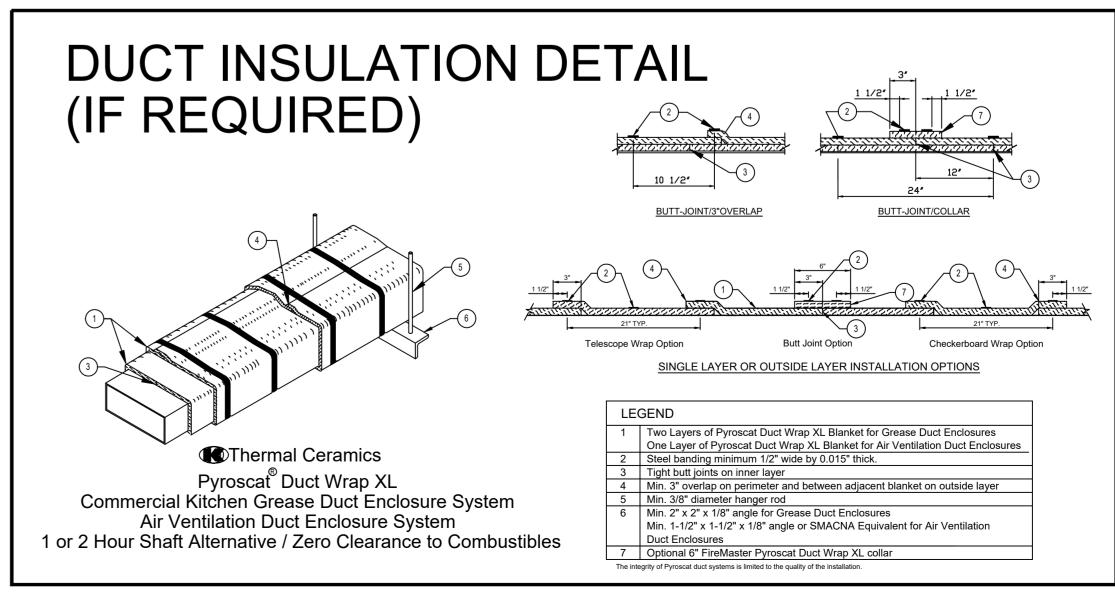
	CLEARANCE TO COMBUSTIBLES						
	DIAMETER	COMBUSTIBLES		LIMITED COMBUSTIBLES	NON COMBUSTIBLES		
	8" - 24"			3″	0"		
	_			_			
HORIZONTAL CLEANOUT			HORIZONTAL SUPPORT				

MAXIMUM SPACING			MAXIMUM SPACING (FT)		
DUCT DIAMETER	MAXIMUM SPACING			DUCT DIAMETER	MAXIMUM SPACING (FT)
8" - 24"	12′	]		8" - 24"	10′
VERTICAL CLEANDUT Maximum spacing			VERTICAL SUPPORT MAXIMUM SPACING (FT)		
DUCT	MAXIMUM			DUCT	MAXIMUM

CONTACT CAPTIVEAIRE FOR A CUSTOMIZED DUCT SUBMITTAL

EMAIL: reg121@captiveaire.com

PHONE: (703) 214-2101



**DATE:** 2/9/2022

DWG.#: 5320438

DRAWN BY-121 **SCALE:** 

SHEET NO.



Clifton Clerk <clerk@cliftonva.gov>

#### ARB 9.29.22 MEETING

Royce Jarrendt <royce.jarr@yahoo.com>

Tue, Sep 27, 2022 at 3:09 PM

Reply-To: Royce Jarrendt <royce.jarr@yahoo.com>

To: "nucfamily@aol.com" <nucfamily@aol.com>, Clifton Clerk <clerk@cliftonva.gov>, Geri Yantis <gyantis@syaa.com>, Jeff Stein <jeffstein@cox.net>, Dwayne Nitz <dwaynenitz@gmail.com>, Phoebe Peterson <phoebetpeterson@gmail.com>, Regan McDonald <mcdonald.regan@gmail.com>

Hi All,

I apologize for the short notice but we have one application to review during the September 29 ARB meeting. I have attached the application for a roof mounted range hood vent for the Clifton Cafe. Please let me know if you will attend this meeting so I know if I have a quorum.

Regards,

Royce Jarrendt

One Dwelling, Inc. 703 932-5762

