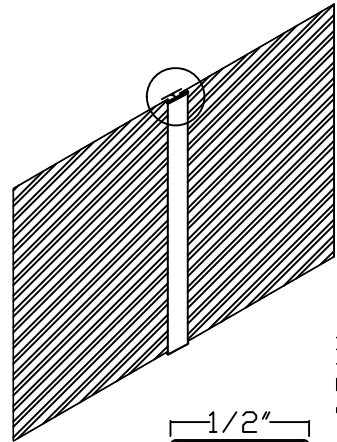
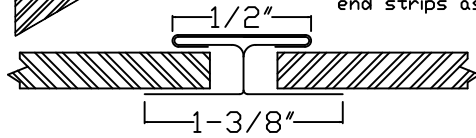


FIRE SYSTEM/INSTALLATION DETAILS

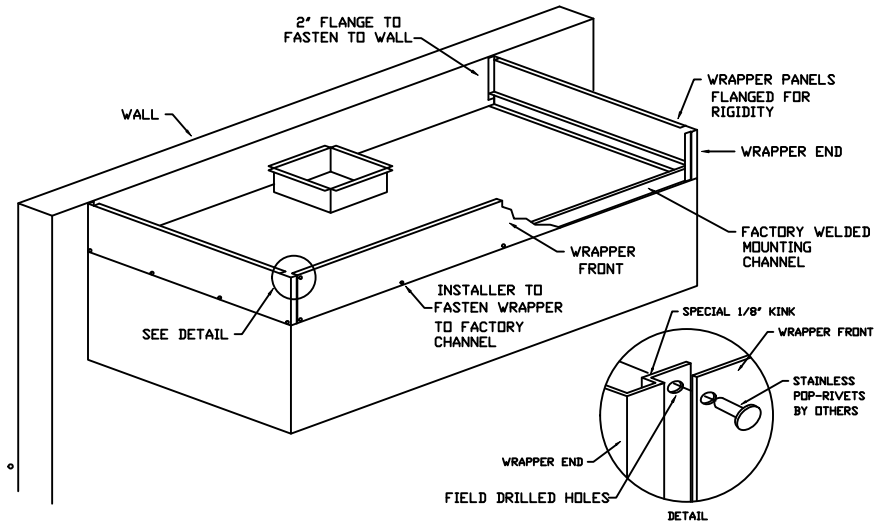


Stainless Steel Backsplash and Sidesplash

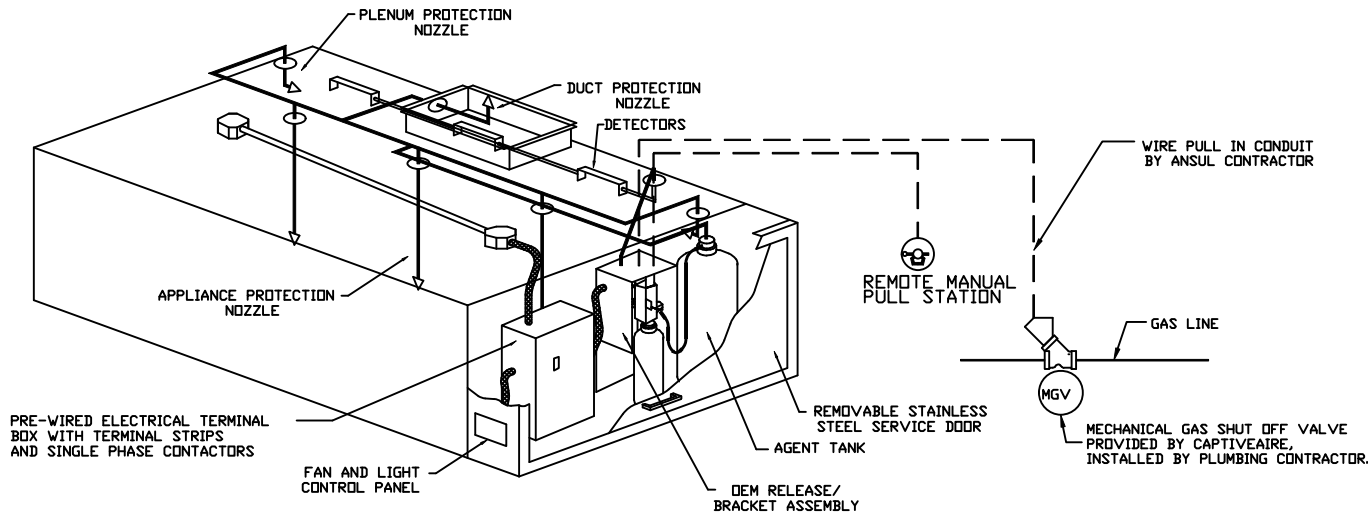
Backsplash is to be manufactured from #3 or #4 finish S/S of the same gauge and material as the hoods. It will be supplied with Batton strips and end strips as needed to close all seams and edges.



Batton Strip Detail



FIELD WRAPPER



TYPICAL ANSUL R-102 SYSTEM LAYOUT

VERIFY GAS VALVE SIZE
---"

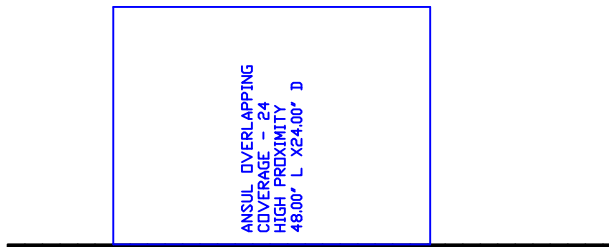
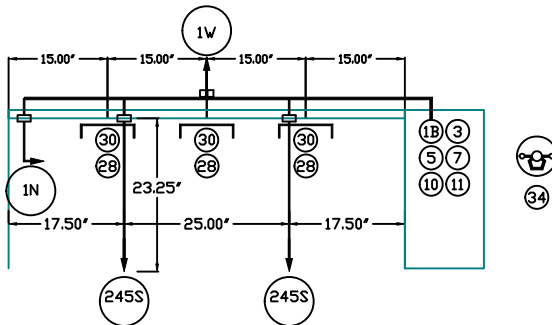
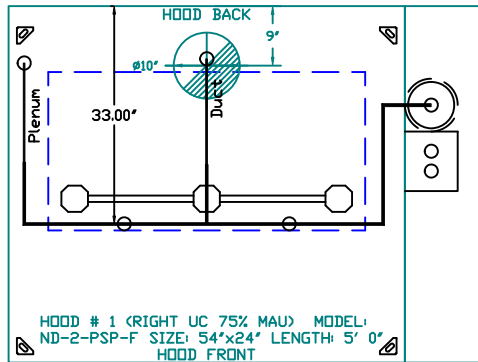
TYPICAL ANSUL R-102 SYSTEM LAYOUT



CAPTIVEAIRE

JOB JERSEY MIKE'S	
LOCATION CAMERON, NC	
DATE 6/6/19	JOB # 5159853
DWG # 2	DRAWN BY DF-32
REV.	SCALE Not To Scale

FIRE SYSTEM/INSTALLATION DETAILS



NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

JOB NAME: JERSEY MIKE'S

SYSTEM SIZE: ANSUL-3.0 TOTAL FP REQUIRED: 6.
HOOD # 1 5' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

LEGEND - FIRE CABINET ANSUL SYSTEM

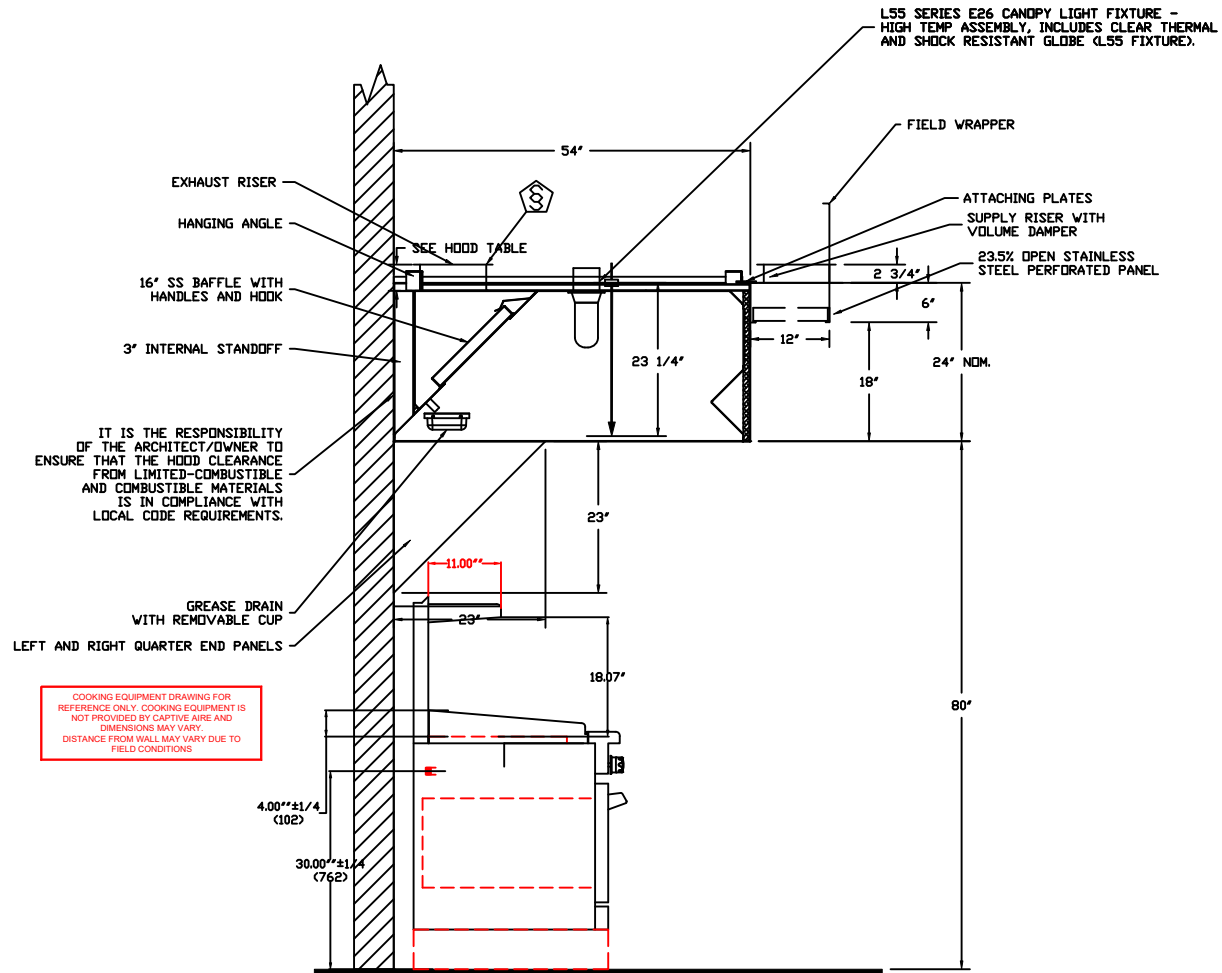
- 1A 1.5 GALLON TANK
- 1B 3 GALLON TANK
- 2 DEM AUTOMAN RELEASE
- 3 DEM REGULATED RELEASE
- 4 DEM REGULATED ACTUATOR
- 5 ANSULEX LIQUID AGENT (3 GAL.)
- 6 ANSULEX LIQUID AGENT (1.5 GAL.)
- 7 CARTRIDGE (101-20)
- 8 CARTRIDGE (101-10)
- 9 CARTRIDGE (101-30)
- 9A CARTRIDGE (LT-A-101-30)
- 9B DOUBLE TANK CARTRIDGE
- 10 TEST LINK
- 11 DOUBLE MICROSWITCH
- 12 HOSE ASSEMBLY
- 1100 DUCT NOZZLE (430913)
- 2W DUCT NOZZLE (419337)
- 1W NOZZLE ASSEMBLY (419336)
- 1F NOZZLE ASSEMBLY (419333)
- 1N NOZZLE ASSEMBLY (419335)
- 1/2N NOZZLE ASSEMBLY (419334)
- 3N NOZZLE ASSEMBLY (419338)
- 245 NOZZLE ASSEMBLY (419340)
- 230 NOZZLE ASSEMBLY (419339)
- 2120 NOZZLE ASSEMBLY (419343)
- 290 NOZZLE ASSEMBLY (419342)
- 260 NOZZLE ASSEMBLY (419341)
- 28 DETECTOR BRACKET
- 29 LOW TEMP FUSIBLE LINK
- 30 HIGH TEMP FUSIBLE LINK
- MGV MECHANICAL GAS VALVE
- EGV ELECTRICAL GAS VALVE
- 34 REMOTE MANUAL PULL STATION
- S SWIVEL ADAPTOR



CAPTIVE AIR

JOB JERSEY MIKE'S	
LOCATION CAMERON, NC	
DATE 6/6/19	JOB # 5159853
DWG # 3	DRAWN BY DF-32
REV.	SCALE Not To Scale

ANSUL APPLIANCE PROTECTION DETAILS



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1

DUCT NOZZLE AND
PLENUM SPRAY BAR LOCATION



CAPTIVEAIR

JOB JERSEY MIKE'S	
LOCATION CAMERON, NC	
DATE 6/6/19	JOB # 5159853
DWG # 4	DRAWN BY DF-32
REV.	SCALE Not To Scale

GRIDDLE FAN (CANOPY HOOD)

EXHAUST FAN INFORMATION

FAN UNIT MODEL #	MODEL	CFM	ESP.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
DU50HFA	DU50HFA	1000	1.000	1471	0.500	1	115	8.4	84	15.3

FAN OPTIONS

1 - Grease Box

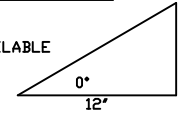
CURB ASSEMBLIES

DN FAN	WEIGHT	ITEM	SIZE
DU50HFA	38 LBS	Curb	19.500"W x 19.500"L x 26.000"H Vented Hinged

VERIFY ROOF PITCH

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



ATTENTION!
INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH!
MESSAGE ON LABEL:
"INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING"

IF ROOF INSULATION THICKNESS IS GREATER THAN 7.5" PLEASE CONTACT CAPTIVEAIRE TO EITHER ORDER TALLER CURBS OR WINDBAND EXTENSION

FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- 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

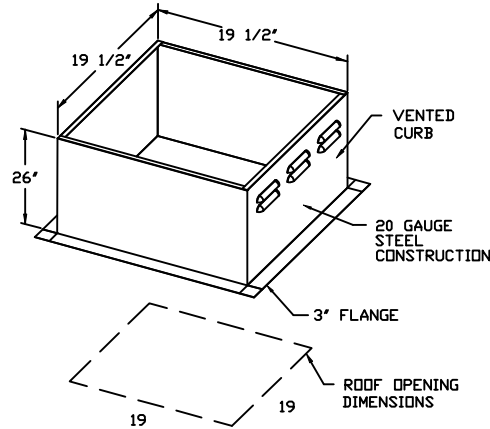
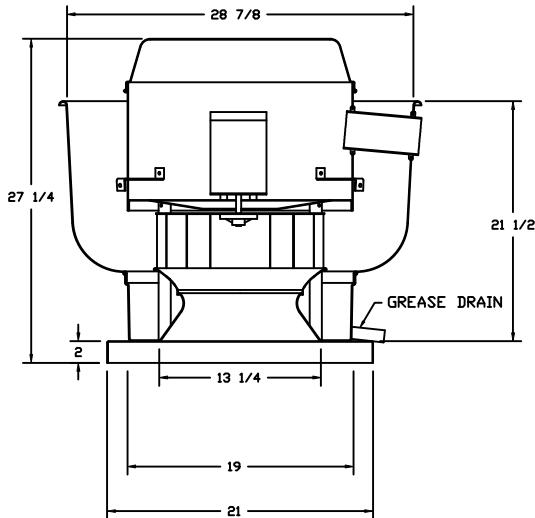
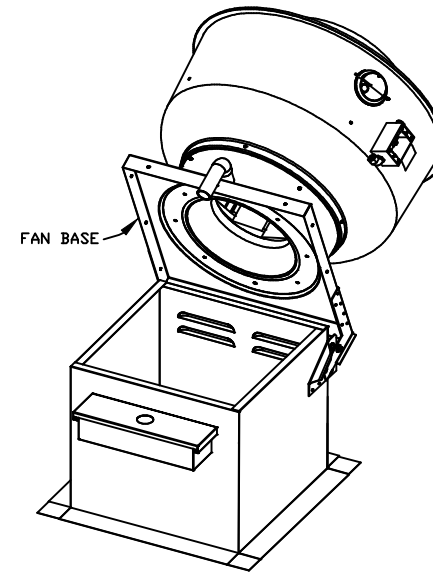
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.

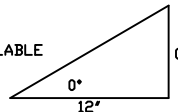
OPTIONS

GREASE BOX



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



CAPTIVEAIRE

JOB		JERSEY MIKE'S	
LOCATION		CAMERON, NC	
DATE	6/6/19	JOB #	5159853
DWG #	5	DRAWN BY	DF-32
REV.		SCALE	Not To Scale

NON TEMPERED SUPPLY FAN (DOWN DISCHARGE)

***NOTE: Verify CFM with Hood Drawing**

MUA FAN INFORMATION

FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
A1-G10	G10D	A1	750	0.500	814	1.000	0.4140	1	115	10.2	212	16.1

FAN OPTIONS

OPTION (Qty. - Descr.)

1 - ECM Wiring Package-Supply Fans Untempered- Manual Speed Control.

CURB ASSEMBLIES

ON FAN	WEIGHT	ITEM	SIZE
A1-G10D	29 LBS	Curb	21.000"W x 21.000"L x 20.000"H

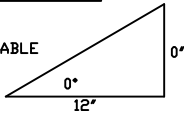
FAN #3 A1-G10D - SUPPLY FAN (DOWN)

1. DIRECT DRIVE DIRECT DRIVE UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING WITH SPEED CONTROL, DISCONNECT SWITCH.
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. ECM WIRING PACKAGE AND MANUAL CONTROL FOR ECM MOTORS ON SUPPLY PRVS.

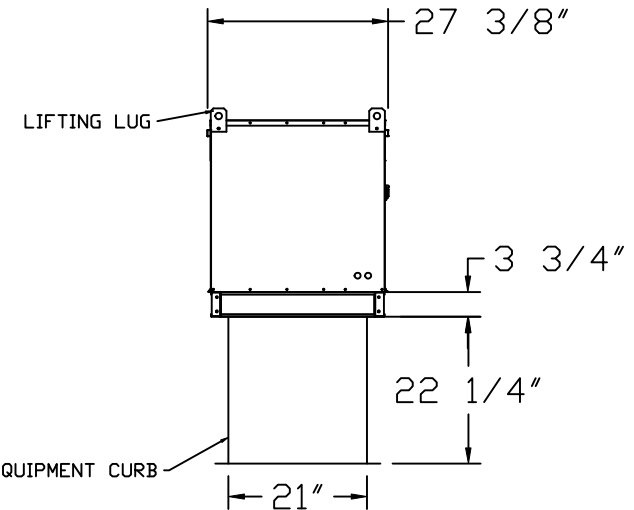
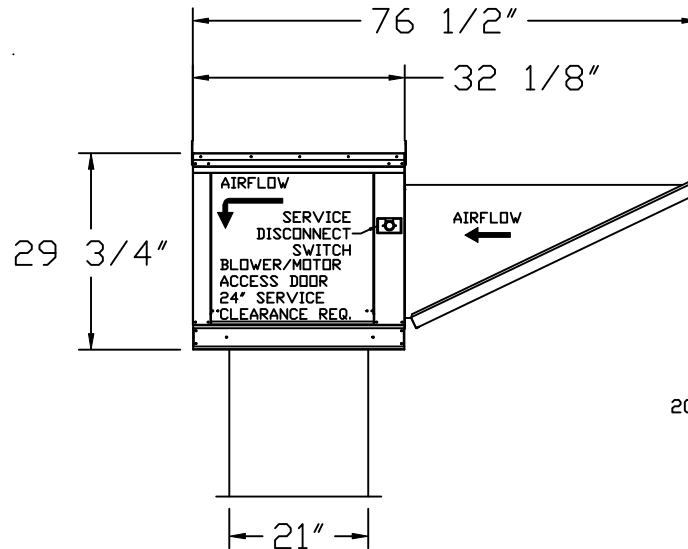
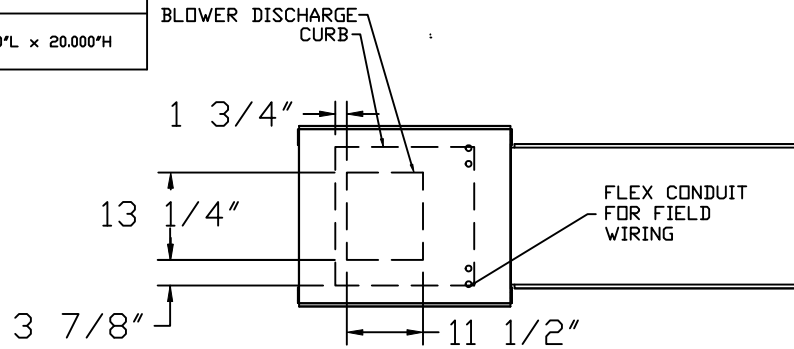


VERIFY ROOF PITCH

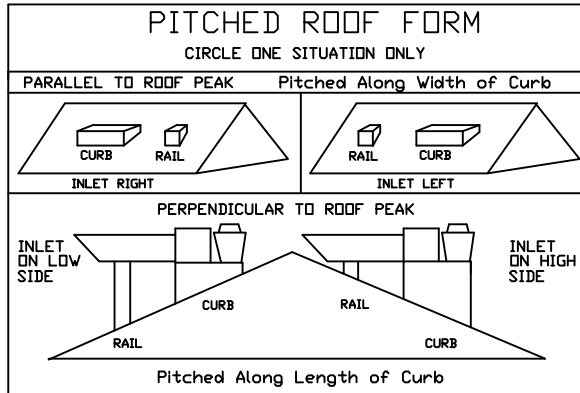
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



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



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



JOB		JERSEY MIKE'S	
LOCATION		CAMERON, NC	
DATE	6/6/19	JOB #	5159853
DWG #	6	DRAWN BY	DF-32
REV.		SCALE	Not To Scale

ELECTRICAL PACKAGES

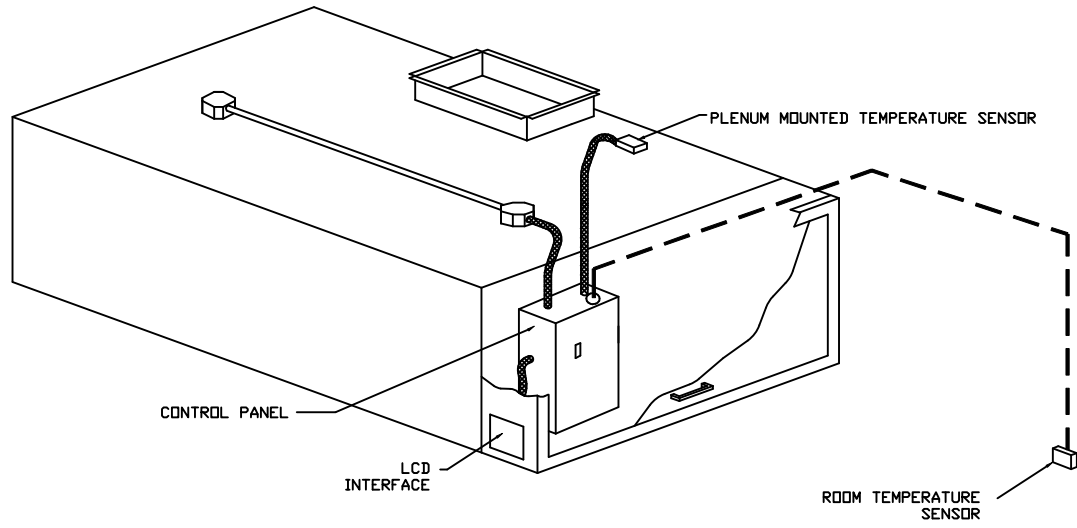
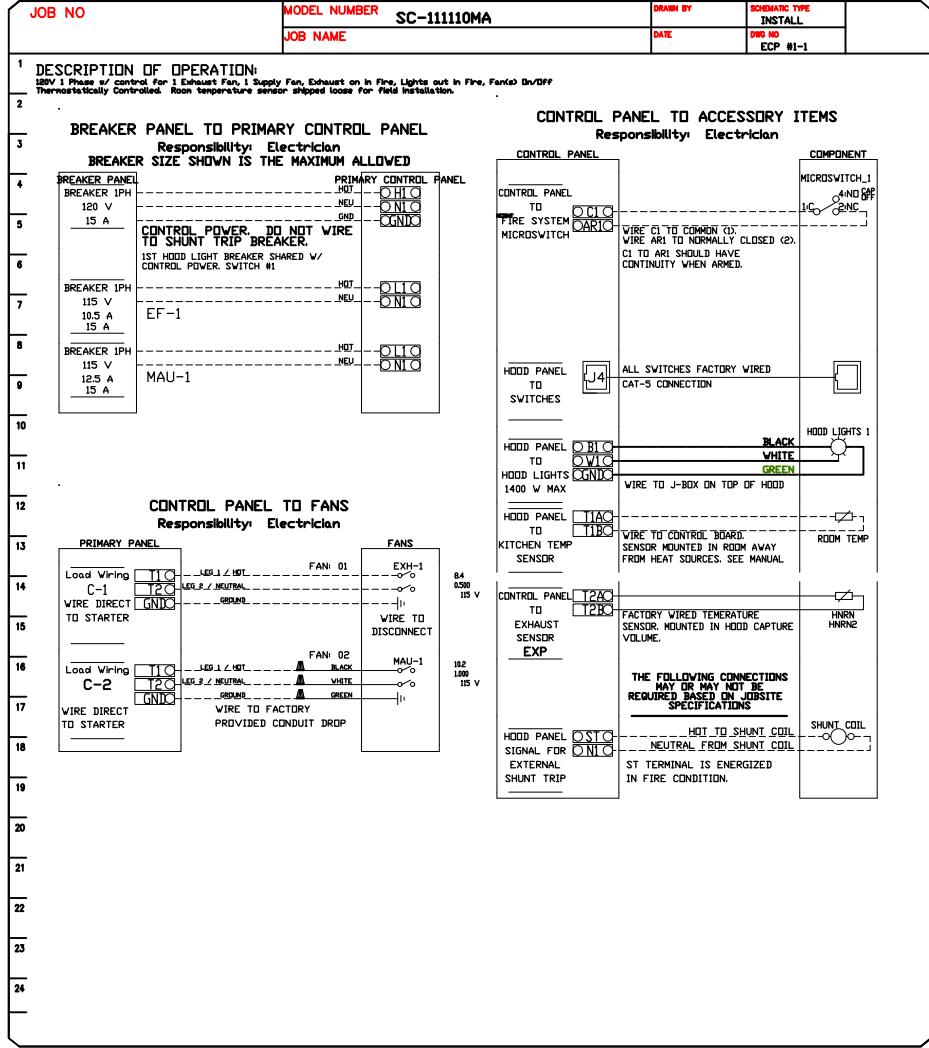
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	?	H.P.	VOLT	FLA
1		SC-111110MA	Right Utility Cabinet	Right Utility Cabinet	1 Light	Smart Controls Thermostatic Control		Exhaust	1	0.500	115	8.4
				Hood # 1	1 Fan		DOWN	Supply	1	1.000	115	10.2

ROOM TEMPERATURE SENSOR



The Room Temperature sensor is a 10K Ohm 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.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATION - HOOD CONTROLS ELECTRICAL PACKAGE: FP SERIES

Once all power, light and temperature sensor circuits are properly landed on the control terminal block the LCD interface will be illuminated. All temperature readings are measured by resistive temperature sensors (thermistors) installed in each hood exhaust riser. One room temperature sensor is installed in the space to measure ambient air temperature.

Automatic activation: Turn on cooking appliances. Exhaust fan(s) [and supply fan(s), if present] will automatically energize when duct temperature exceeds pre-set differential with respect to ambient room temperature (factory setpoint differential = 10 degrees F) adjustable. At the end of the day, after cooking operations have ceased, the fan(s) will shut off when the duct temperature falls below the setpoint differential.

FIRE CONDITION
 IN THE EVENT OF A FIRE, A SIGNAL IS SENT ACROSS THE NORMALLY OPEN DRY CONTACT OF THE FIRE SUPPRESSION SYSTEM MICROSWITCH (INTERLOCKED WITH HOOD CONTROL PANEL BY ELECTRICIAN). EXHAUST FAN(S) TO REMAIN RUNNING, SUPPLY FAN(S) TO DE-ENERGIZE, LIGHTING CIRCUIT(S) TO DE-ENERGIZE, GAS/ELECTRIC TO SHUT OFF. MICROSWITCH MUST BE RESET PRIOR TO RESUMPTION OF NORMAL OPERATION.

Two methods to activate system:

Manual activation: Operator presses the fan button to energize starter(s) and start the exhaust fan(s). Supply fan(s), if present, will be activated by factory pre-wired interlock.



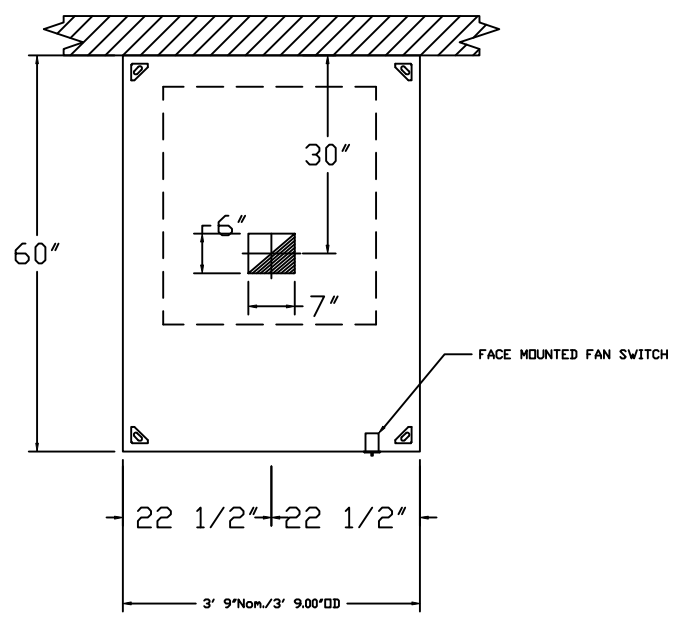
JOB JERSEY MIKE'S	
LOCATION CAMERON, NC	
DATE 6/6/19	JOB # 5159853
DWG # 7	DRAWN BY DF-32
REV.	SCALE Not To Scale

BREAD OVEN HOOD (BACK WALL)

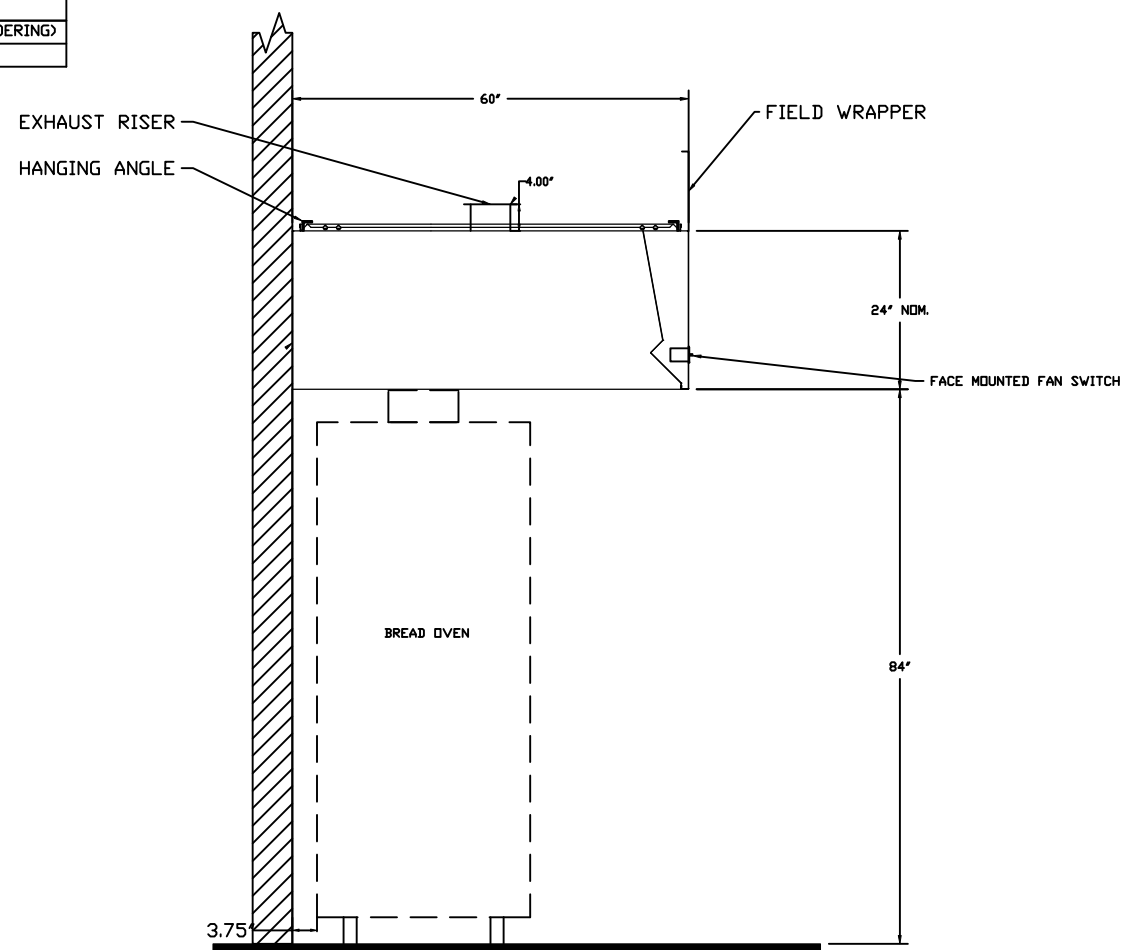
MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG.		SWITCHES		HOOD HANGING WGT
			TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	S.P.		END TO END	ROW	QUANTITY	LOCATION	
6024 VHB-ND	3' 9.00'	700 Deg.	375	6'	7'	4'		375	-0.062'	430 SS 100%	ALONE	ALONE	1 FAN	FRONT RIGHT FACE	214 LBS

VERIFY CEILING HEIGHT
 _____ / _____"
 Height required to verify that the hood will fit and to size the enclosure panels

HOOD OPTIONS		OPTION	
HOOD NO.	TAG	DESCRIPTION	DETAILS
3		FIELD WRAPPER	12.00' High Front, Left, Right (VERIFY CEILING HEIGHT BEFORE ORDERING)
		BACKSPLASH	84.00' High X 45.00' Long 430 SS Vertical



PLAN VIEW - BREAD OVEN HOOD
 3' 9.00" LONG 6024VHB-ND

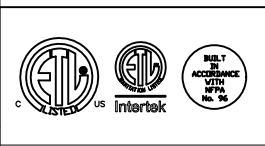
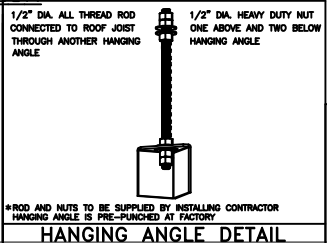


SECTION VIEW - MODEL 6024VHB-ND
 BREAD OVEN HOOD

NOTE:
 EXHAUST FAN IS SIZED FOR A MAXIMUM OF (3) 90 DEGREE RADIUS ELBOWS AND 25 FT OF STRAIGHT DUCTWORK. PLEASE CONSULT CAPTIVEAIRE IF DUCTWORK EXCEEDS THE ABOVE REQUIREMENTS.

ETL LISTING DESCRIPTION BLOCK

THE CAPTIVE AIRE MODEL VHB HAS BEEN U.L. 710 TESTED, LISTED, AND APPROVED TO EXHAUST A MINIMUM OF 150 CFM PER LINEAR FOOT OVER 700 DEGREE COOKING EQUIPMENT



JOB		JERSEY MIKE'S	
LOCATION		CAMERON, NC	
DATE	2019	JOB #	5159853
DWG #	8	DRAWN BY	DF-32
REV.		SCALE	Not To Scale

BREAD OVEN FAN

EXHAUST FAN INFORMATION

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		DU12HFA	375	0.500	1404	0.180	0.1220	1	115	1.9	54	7.9

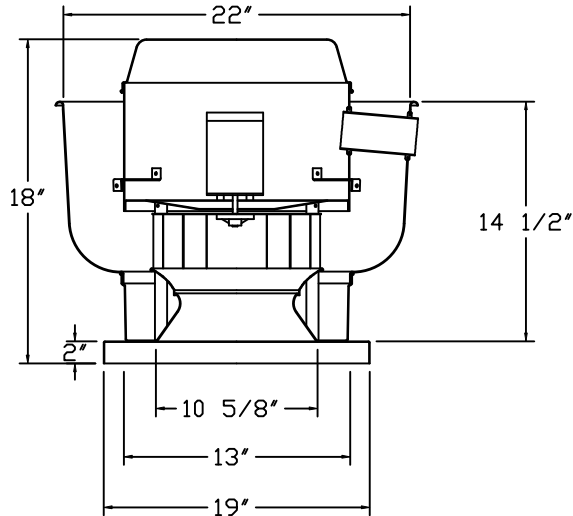
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - 1 12-BDD Damper

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	31 LBS	Curb	17.500*W x 17.500*L x 26.000*H

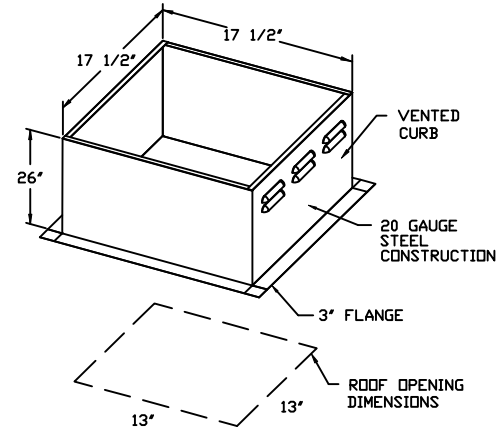
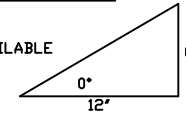
FAN #1 DU12HFA - EXHAUST FAN



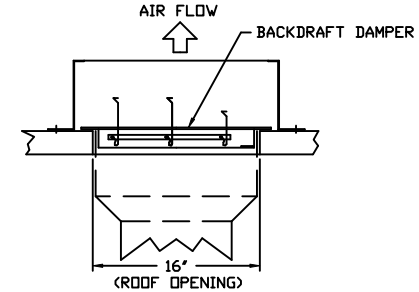
VERIFY ROOF PITCH

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



BACKDRAFT DAMPER INSTALLATION



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

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.



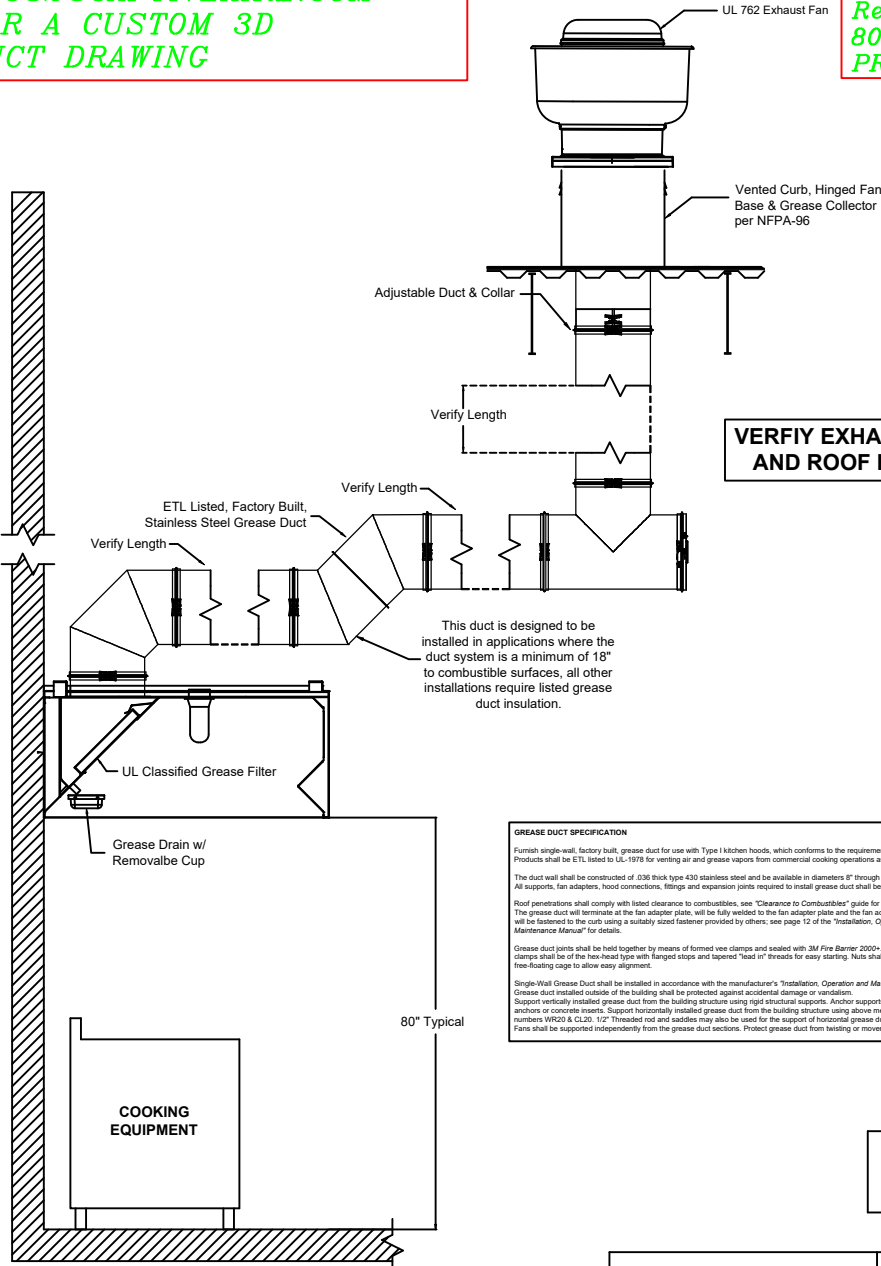
CAPTIVEAIR

JOB	JERSEY MIKE'S
LOCATION	CAMERON, NC
DATE	2019
JOB #	5159853
DWG #	9
DRAWN BY	DF-32
REV.	SCALE Not To Scale

GRIDDLE HOOD DUCTWORK

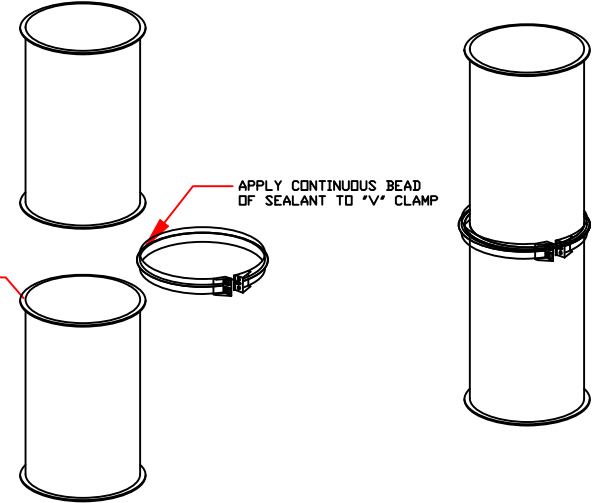
PLEASE CONTACT
REG32@CAPTIVEAIRE.COM
FOR A CUSTOM 3D
DUCT DRAWING

CAPTIVEAIRE LISTED GREASE
DUCTWORK IS PROVIDED BY
GENERAL CONTRACTOR,
CONTACT
Reg32na@captiveaire.com
800-988-0881 FOR
PROCUREMENT

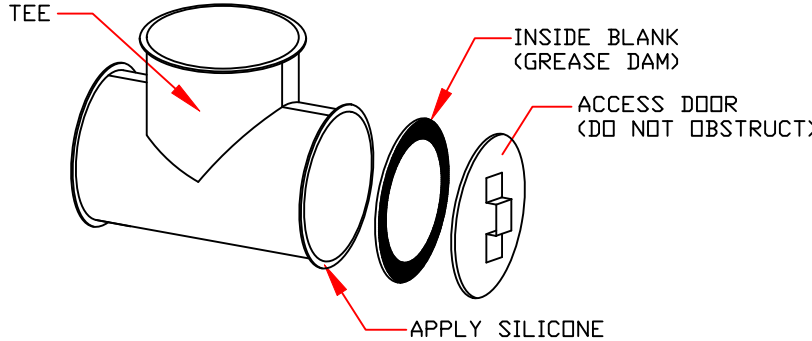


VERIFY EXHAUST RUN
AND ROOF HEIGHT

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-197B 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 Maintenance Manual" for details. 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 cap 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.



D APPLICATION OF SEALANT



E APPLICATION OF SEALANT II

DUCTWORK PROVIDED THROUGH THE GENERAL CONTRACTOR



JOB		JERSEY MIKE'S	
LOCATION		CAMERON, NC	
DATE	6/6/19	JOB #	5159853
DWG #	10	DRAWN BY	DF-32
REV.		SCALE	Not To Scale

GRIDDLE HOOD DUCTWORK



GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURER'S LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

CLEARANCE TO COMBUSTIBLES

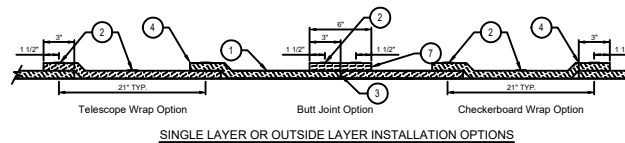
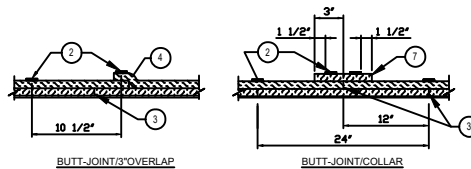
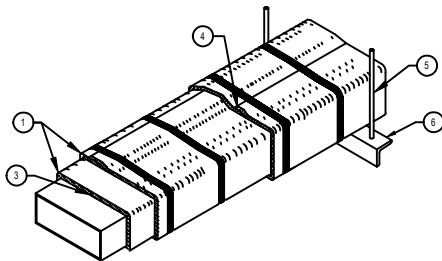
DIAMETER	COMBUSTIBLES	LIMITED COMBUSTIBLES	NON COMBUSTIBLES
8"	18"	3"	0"
10"	18"	3"	0"
12"	18"	3"	0"
14"	18"	3"	0"
16"	18"	3"	0"
18"	18"	3"	0"
20"	18"	3"	0"
24"	18"	3"	0"

Thermal Ceramics

Firemaster® Fast Wrap XL

Commercial Kitchen Grease Duct Enclosure System

Air Ventilation Duct Enclosure System
1 or 2 Hour Shaft Alternative / Zero Clearance to Combustibles



LEGEND

1	Two Layers of Firemaster Fast Wrap XL Blanket for Grease Duct Enclosures One Layer of Firemaster Fast Wrap XL Blanket for Air Ventilation Duct Enclosures
2	Steel banding minimum 1/2" wide by 0.015" thick.
3	Tight butt joints on inner layer
4	Min. 3" overlap on perimeter and between adjacent blanket on outside layer
5	Min. 3/8" diameter hanger rod
6	Min. 2" x 2" x 1/8" angle for Grease Duct Enclosures Min. 1-1/2" x 1-1/2" x 1/8" angle or SMACNA Equivalent for Air Ventilation Duct Enclosures
7	Optional 8" FireMaster Fast Wrap XL collar

The integrity of Pyrosol duct systems is limited to the quality of the installation.



CAPTIVEAIRE

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; **CAPTIVEAIRE** or approved equal. Products shall be ETL listed to the UL-1978 standard 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 of 8" to 24". The grease duct termination at the fan shall be fully welded to a fan adapter plate (where applicable) and the adapter plate shall be fastened to the curb using a suitably sized fastener provided by others. [See Detail A](#)

The duct shall be listed with 18" clearance to combustible materials, 3" clearance to limited combustible materials and 0" clearance to non-combustible materials. Combustible materials are to be defined by the authority having jurisdiction. In cases where the duct distance to combustible materials is less than specified above, insulating products must be installed providing a reduced listing clearance. Approved insulating products include Firemaster Fast Wrap XL or equal when installed in accordance with the manufacturer's instructions. [See Details B & C](#)

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. A continuous bead of sealant is to be applied to the duct flange to flange connection, as well as to the "V" groove of the vee clamp. [See Detail D](#)

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.

Grease duct installations require provisions for cleaning the interior of the duct. NFPA cleanup requirements are as follows:

1. A cleanup must be provided at each change of direction except where the entire length of duct can be inspected and cleaned from either the hood or the discharge end.
2. On horizontal duct runs, at least one 20" diameter opening must be provided. Where the opening is smaller than 20" diameter, openings large enough to permit cleaning must be provided at intervals of no more than 12'.
3. Openings must be at the side or the top, whichever is more accessible. When the opening is on the side of the duct, the lower edge of the opening must be at least 1 3/4" above the bottom of the duct. For listed grease duct, this is accomplished by the use of the grease manifold tee and cleanup cap. [See Detail E](#)
4. On vertical duct runs where personnel entry is possible, access must be from the top of the riser. Where entry is not possible, access must be provided at each floor.

JOB	JERSEY MIKE'S	
LOCATION	CAMERON, NC	
DATE	6/6/19	JOB # 5159853
DWG #	11	DRAWN BY DF-32
REV.		SCALE Not To Scale