

FOR QUESTIONS, CALL THE  
Highwoods Group  
REGION 40  
PHONE: (919) 875 - 0420  
EMAIL: reg40@captiveaire.com

PATENT NUMBERS  
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID 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.

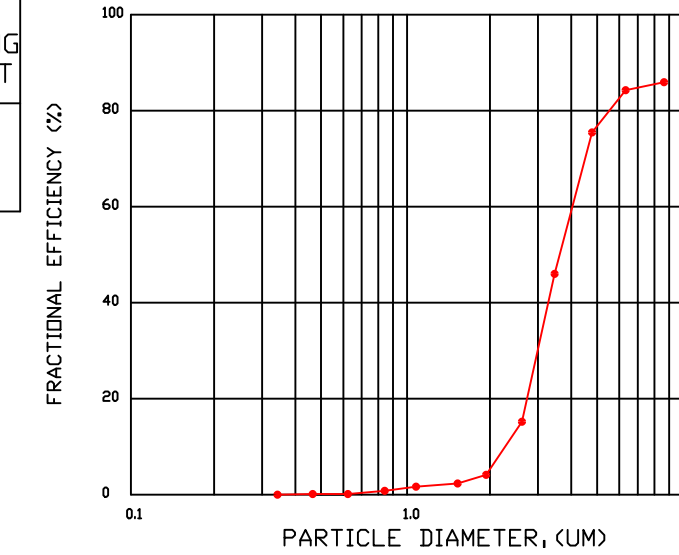
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

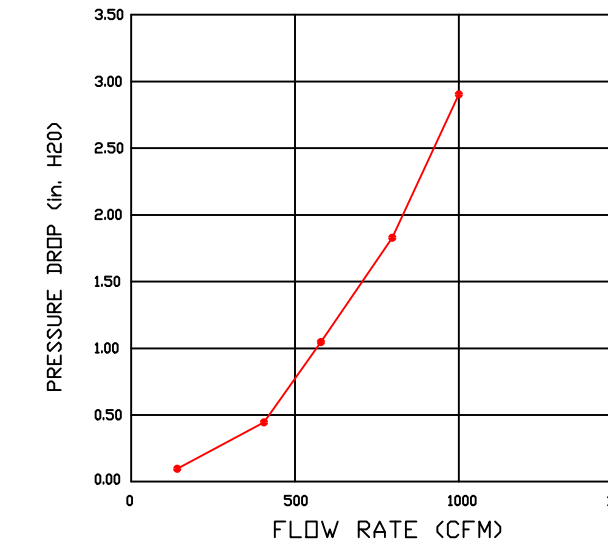
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96.  
NSF STANDARD #2.  
UL STANDARD #1046.  
INT. MECH. CODE (IMC).  
ULC-S649.



**HOOD INFORMATION - JOB#7333396**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA		CFM	VEL	SP	END TO END
1		5424 ND-2	CAPTIVEAIRE	9' 4"	600 DEG	I	HEAVY	204	1900	10'	18'	4'	1900	1520	-0.614'	430 SS WHERE EXPOSED	ALONE	ALONE

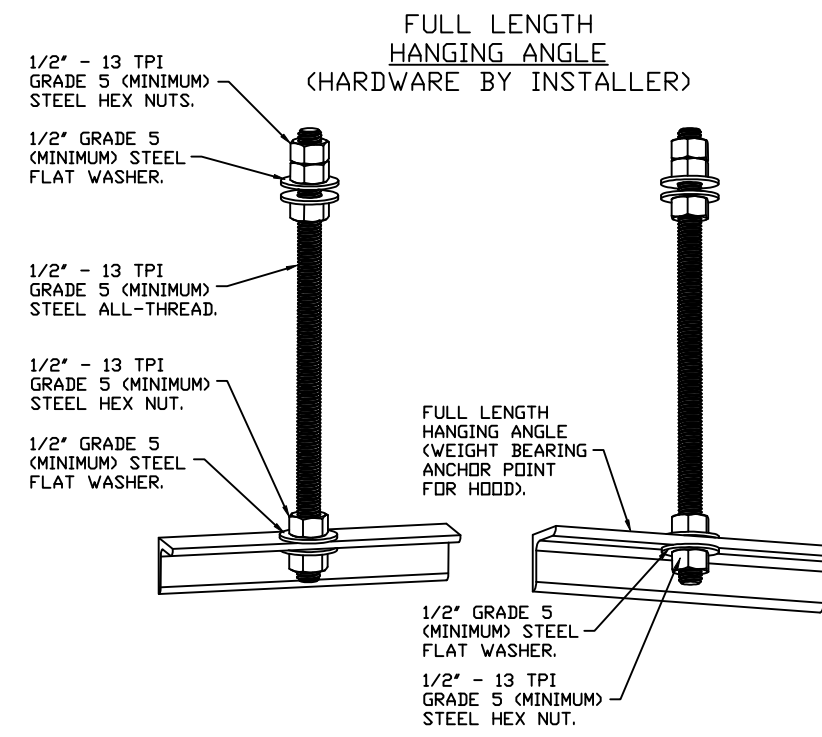
**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1		CAPTRATE SOLID FILTER	7	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	1011 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00' HIGH FRONT, LEFT, RIGHT. INSULATION FOR BACK OF HOOD. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS. FULL DIMENSION HANGING BRACKET - FRONT.

1' LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.



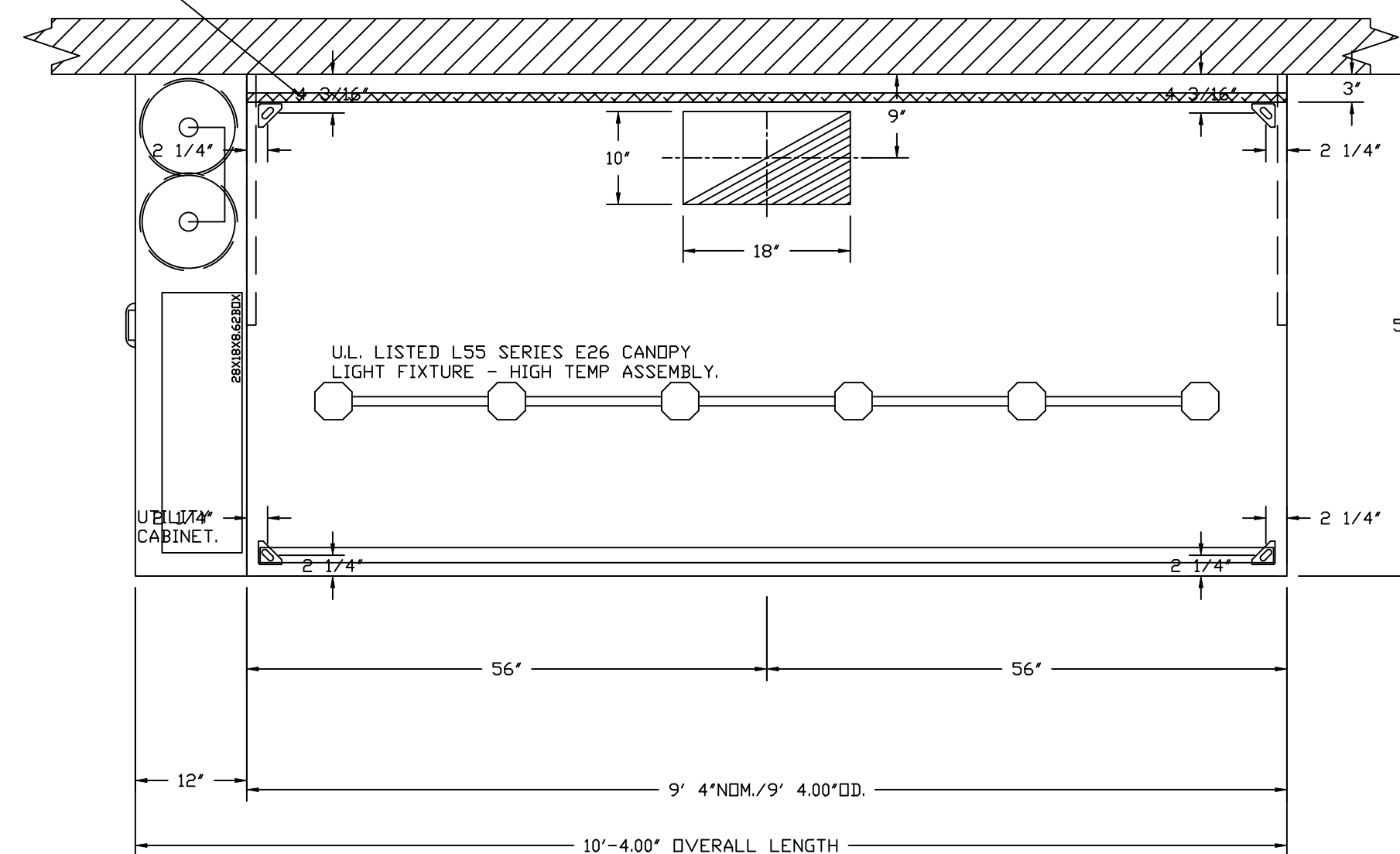
**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

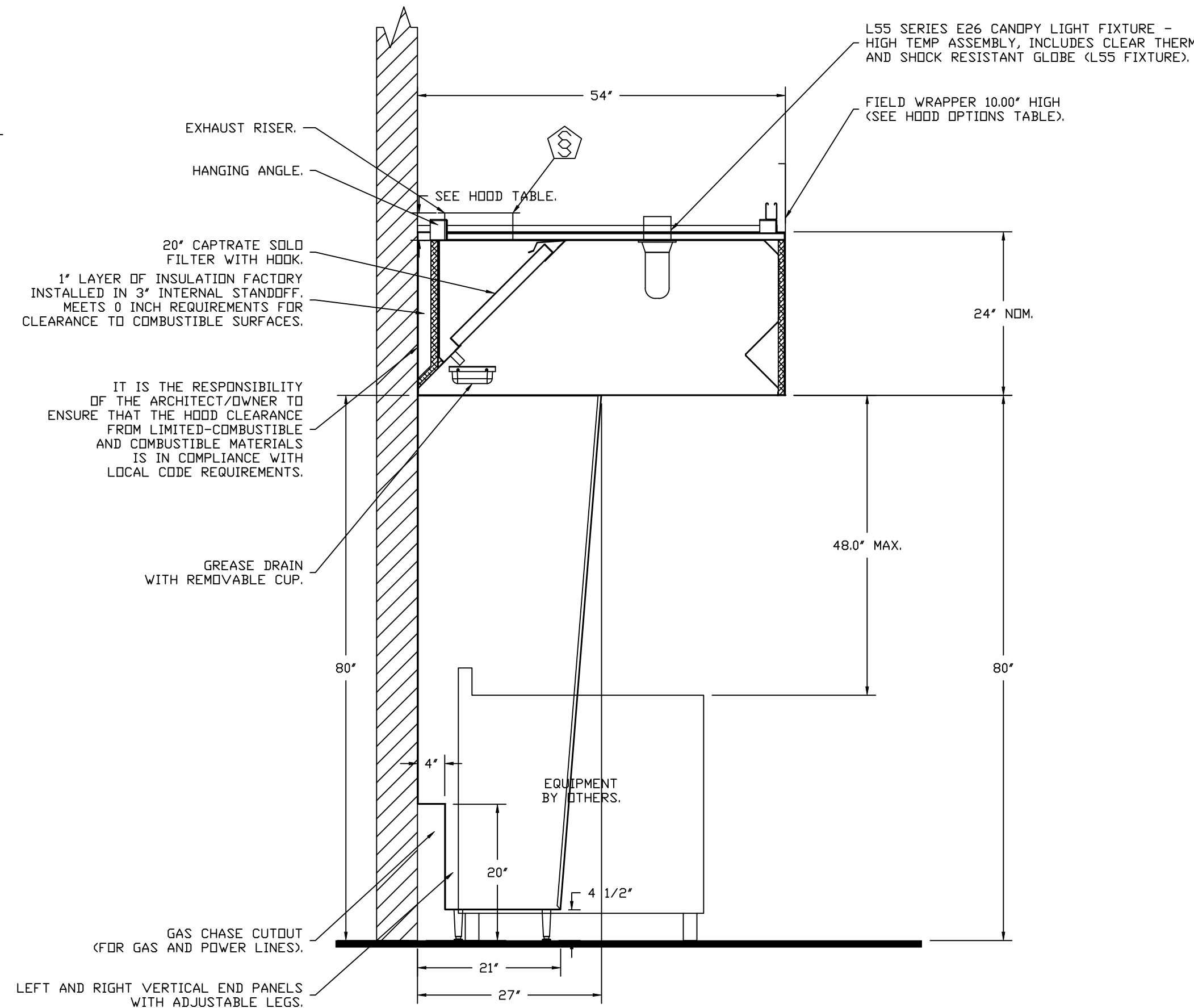
**CLEARANCE TO COMBUSTIBLES**

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"

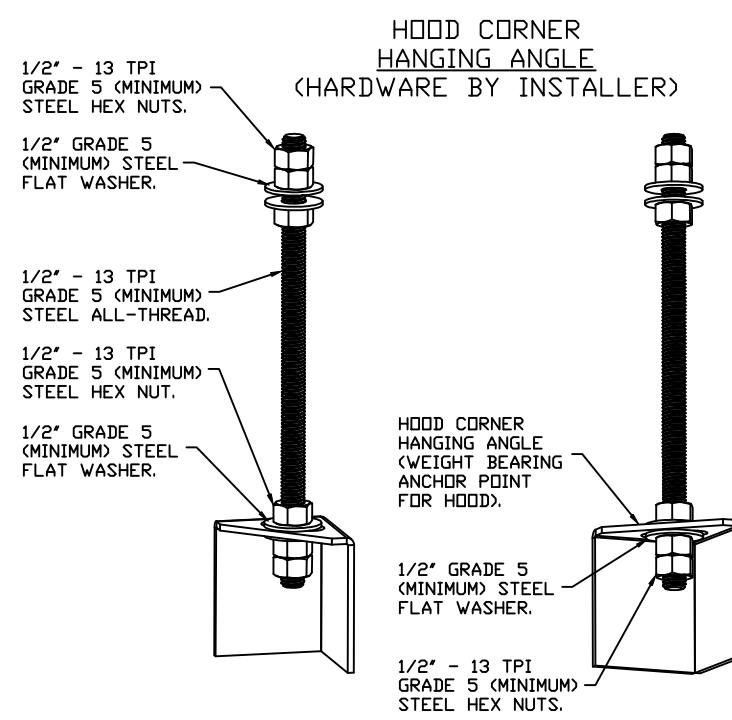
- \*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



PLAN VIEW - HOOD #1  
9' 4.00" LONG 5424ND-2



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



**ASSEMBLY INSTRUCTIONS**

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**National Engineering, Ltd**  
4635 Trueman Blvd, Suite 250  
Hilliard, OH 43026  
(614) 751-9610

Approved  
 Approved as Revise and Noted  
 Resubmit  
 Rejected

BY Mike Chapman DATE 2/12/2025  
SUBMITTAL# 3 SPEC Captive Aire

Approval is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for dimensions to be confirmed and correlated at the jobsite. Information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

**REVISIONS**

DESCRIPTION	DATE

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4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198750577 EMAIL: reg40@captiveaire.com

CHIPOTLE WYNWOOD MIAMI #5416  
176 NW 25TH STREET,  
MIAMI, FL, 33127

DATE: 2/10/2025  
DWG.#: 7333396  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

**SHEET NO.**  
1

**FIRE SYSTEM INFORMATION - JOB#7333396**

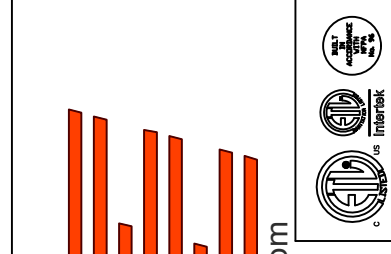
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 - 0 - 32-00002 QUIK SEAL - 1/2" (UL).	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDDR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 - 0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5' DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 - 16 - DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	6	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

**REVISIONS**

DESCRIPTION	DATE



**CAPTIVE**

Highwoods Group

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CHIPOTLE WYNWOOD MIAMI #5416  
176 NW 25TH STREET,  
MIAMI, FL, 33127

**DATE:** 2/10/2025

**DWG.#:**  
7333396

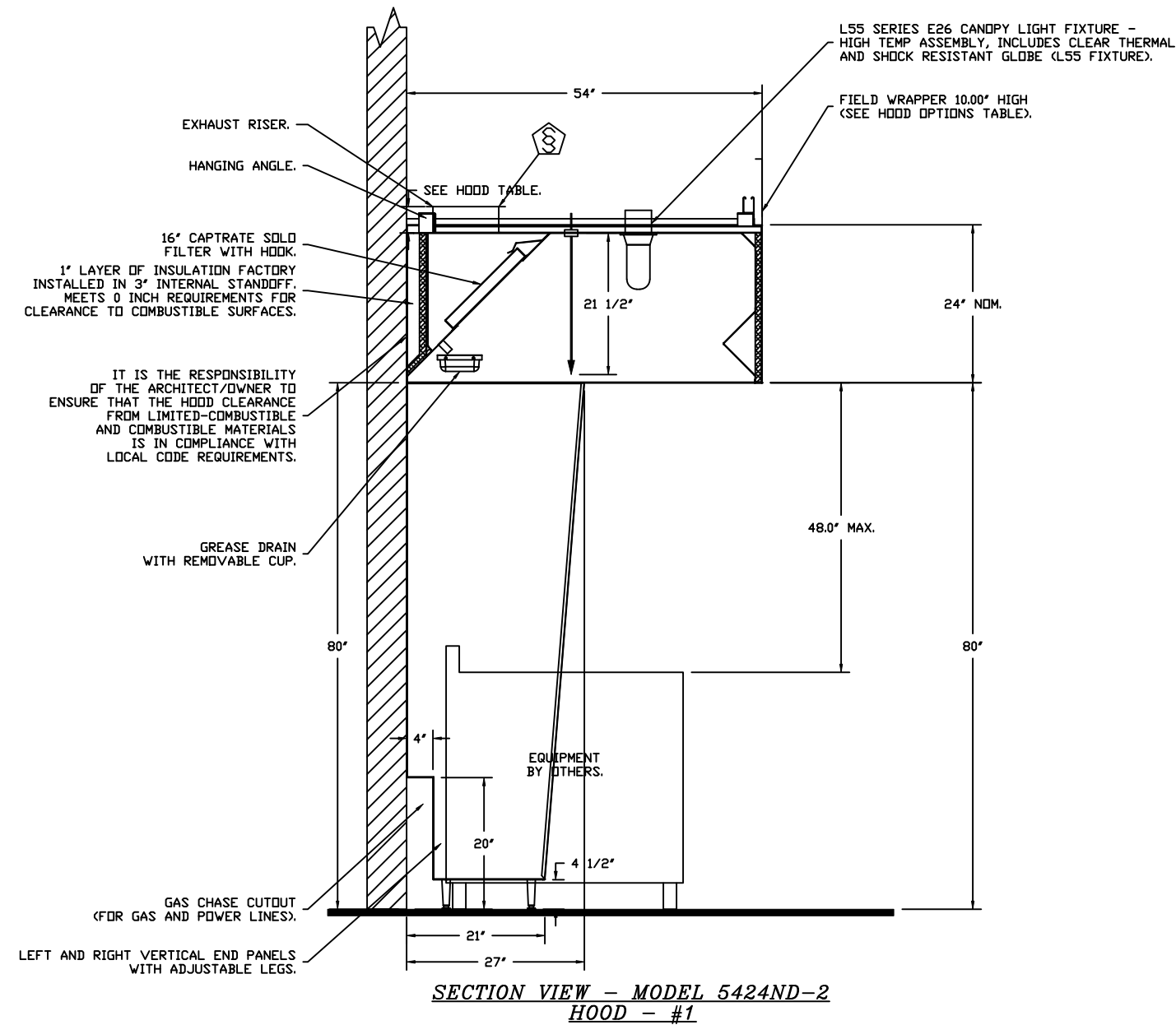
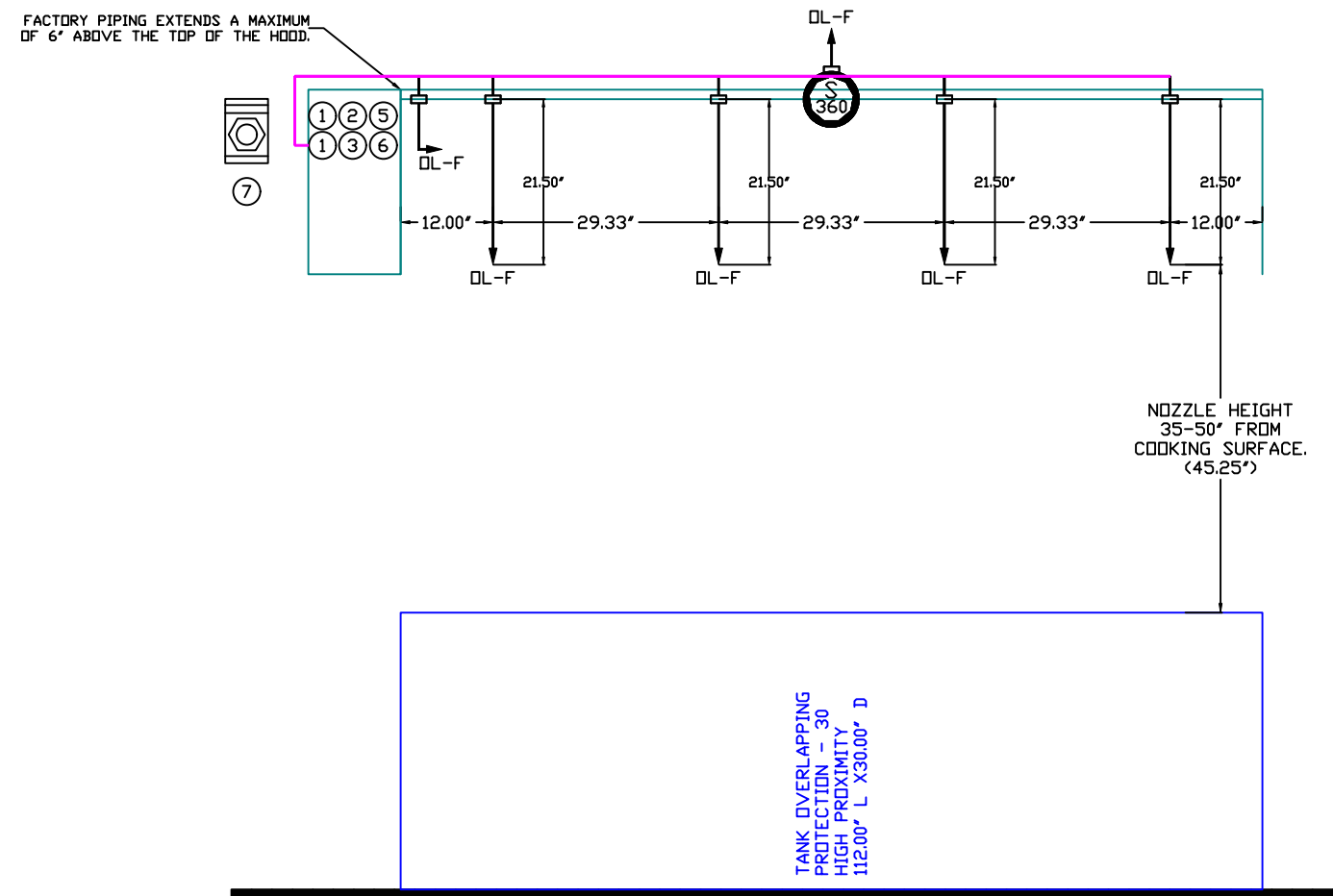
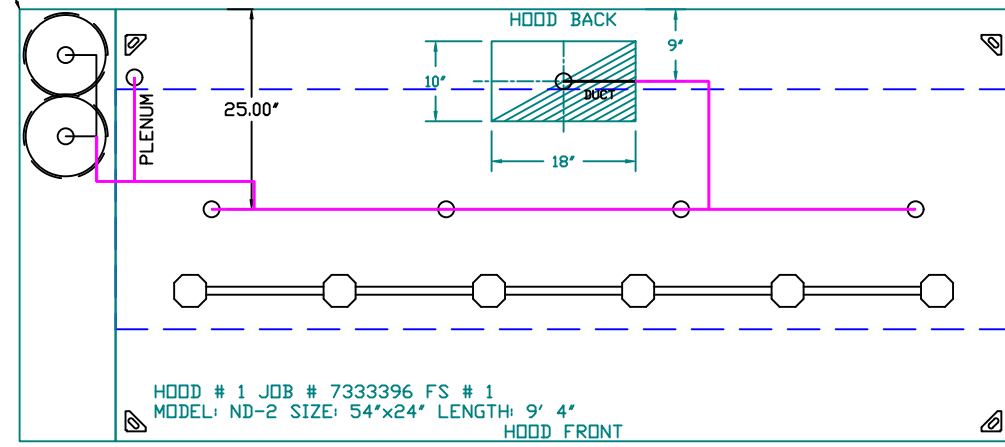
**DRAWN BY:** JMB-40

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

**MASTER DRAWING**

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2

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.5 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



**NOTES**

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- 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 SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7333396  
JOB NAME: CHIPOTLE WYNWOOD MIAMI #5416.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 28. MAXIMUM FP: 40.  
HOOD # 1 9' 4.00' LONG x 54' WIDE x 24' HIGH.  
RISER # 1 SIZE: 10" x 18".  
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.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

**LEGEND - FIRE CABINET TANK SYSTEM**

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

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST. ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHERS, ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

**SYSTEM DESIGN VERIFICATION (SDV)**

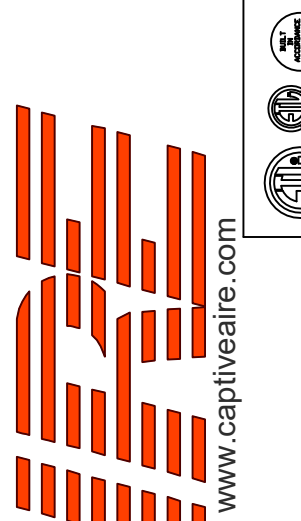
IF ORDERED, GAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

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

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

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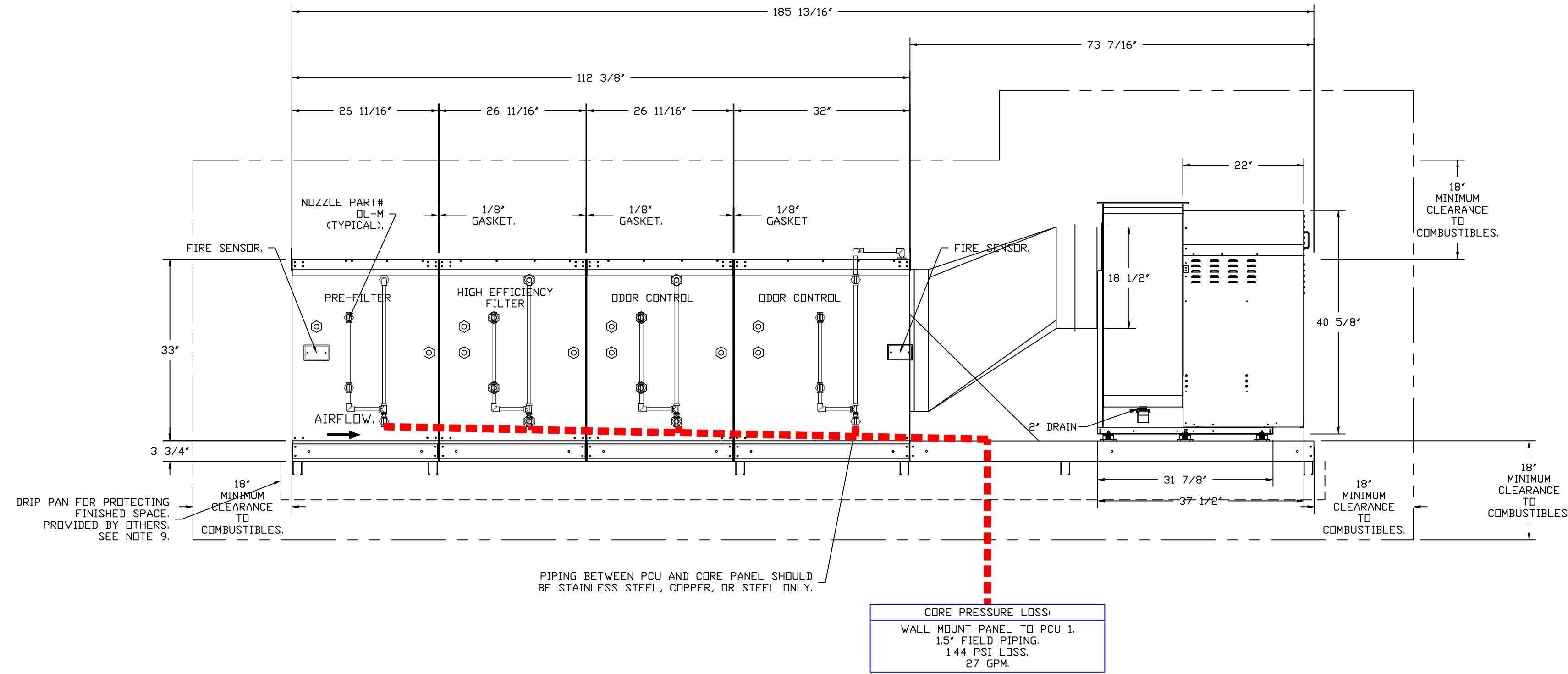
SCALE: 1/2" = 1'-0"

MASTER DRAWING

SHEET NO.

POLLUTION CONTROL UNIT FIRE SYSTEM

FAN #2 USB18DD-RM - EXHAUST FAN (PCU-1) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL ODOR CONTROL MODULES PREPARED WITH 20 DL-M NOZZLES AND INCLUDES DOWNSTREAM PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



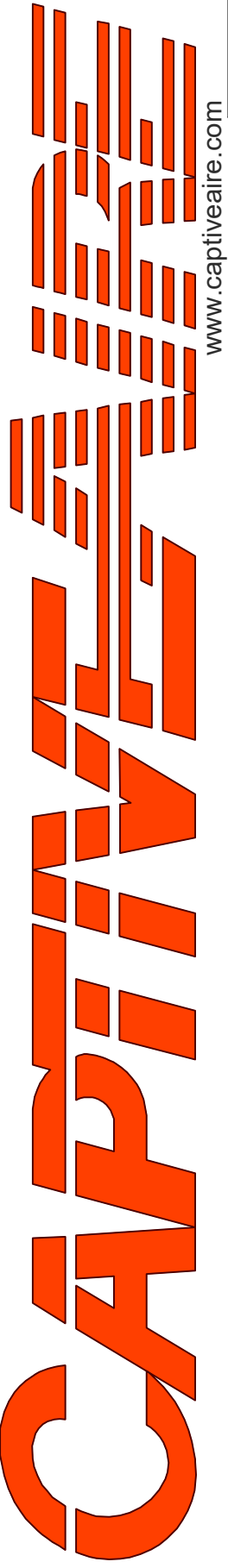
--- FIELD PIPING.

PCU CORE WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
Field Piping Wall Mount Panel to PCU 1	1.5	27	1.44
PCU Internal Piping	0.375	27	20

TOTAL SYSTEM INLET REQUIREMENTS		
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)
TOTAL CORE INLET REQUIREMENTS	27	21.44

\* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 21.44 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 125 PSI.

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 4

**EXHAUST FAN INFORMATION – JOB#7333396**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DFA-200-CA	CAPTIVEAIRE	150	0.500	1724	GENERALPURPOSE	0.280	0.0880	1	115	1.7		12	N/A
2	PCU-1	1	USBI18DD-RM	CAPTIVEAIRE	1900	1.500	1395	DDP,PREMIUM	3.000	1.5640	3	460	4.3	974 FPM	1369	22.8

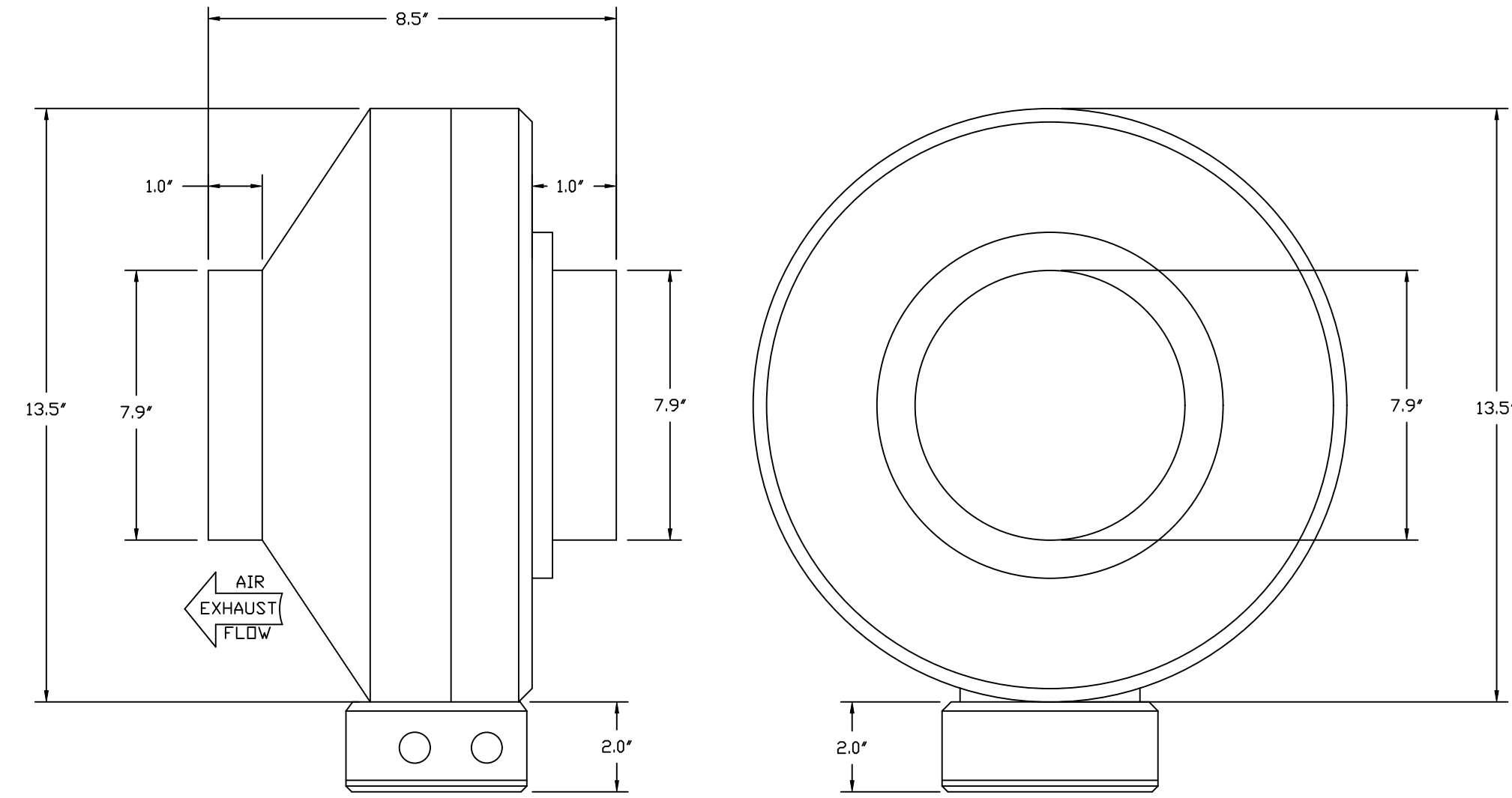
**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	FAN CONTROL – 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN
		1	2 YEAR PARTS WARRANTY
2	PCU-1	1	UTILITY SET GREASE CUP
		1	BI – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE
		1	BI18 – INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT
		1	POLLUTION CONTROL UNIT WITH PREFILTER, HIGH EFFICIENCY, AND DUAL ODOR CONTROL WITH INSTALLED ELECTRICAL DETECTION SYSTEM. SIZE 2
		1	PCU-SIZE 2 USBI-18 DD
		1	BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 6)
		1	MIAMI DADE CERTIFICATION – NDA-2 BI UTILITY SET
		1	BI18 – 20" DISCHARGE ADAPTER
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY

**FAN ACCESSORIES**

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1							
2	PCU-1	YES						

FAN #1 DFA-200-CA – EXHAUST FAN (EF-1)

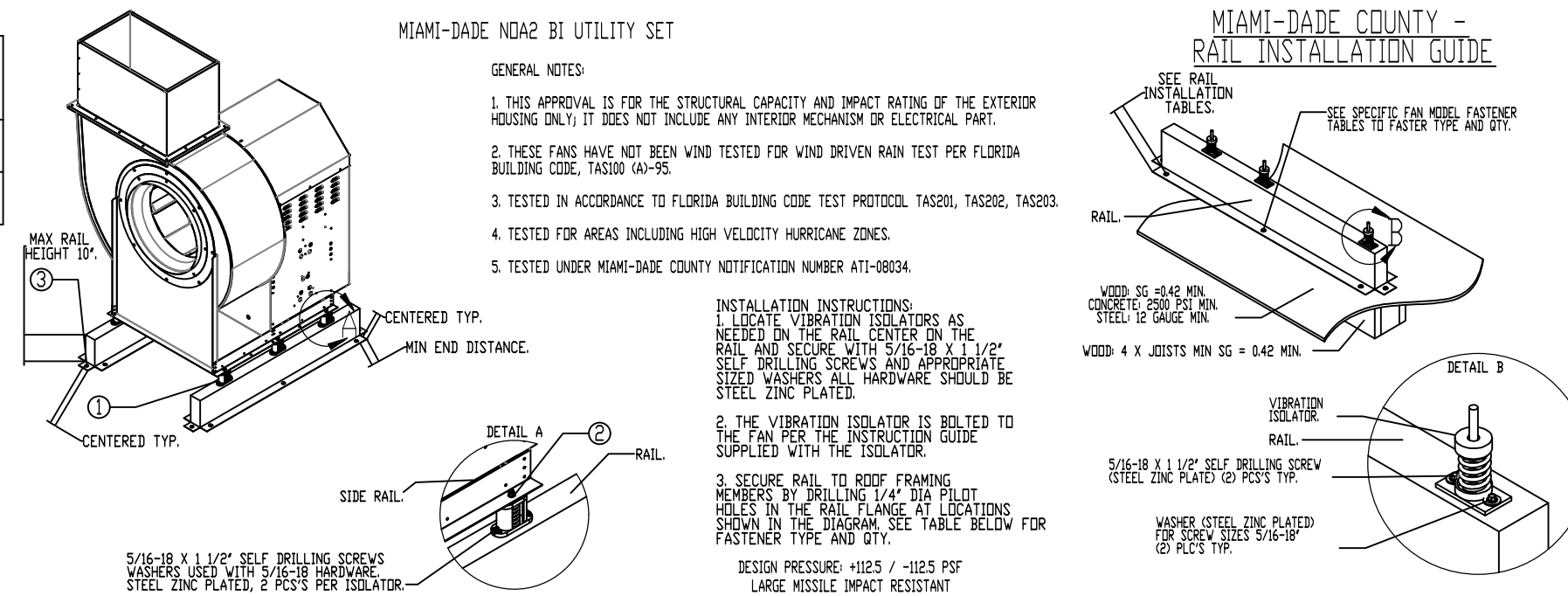


**FEATURES:**

- 20 GA. GALVANIZED STEEL HOUSING.
- STANDARD 4" – 12" ROUND DUCT CONNECTIONS.
- EASILY ACCESSIBLE J-BOX.
- UL507 LISTED.
- EXTREMELY QUIET OPERATION.

**OPTIONS**

- FAN CONTROL – 3 AMP WHITE SPEED CONTROL FOR CFA CEILING FAN.
- 2 YEAR PARTS WARRANTY.



FASTENER	INSTALLATION FASTENER TYPES		
	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2500 PSI MIN. CRACKED CONCRETE)
MINIMUM THREAD PENETRATION	2-5/16"	12 GAUGE	2-5/16"
MINIMUM EDGE DISTANCE	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	2-5/8"	3/8"	4"
MINIMUM SPACING	1-1/2"	3/4"	7"

FAN MODEL	WOOD			STEEL			CONCRETE		
	LONG SIDE	SHORT SIDE	TOTAL	LONG SIDE	SHORT SIDE	TOTAL	LONG SIDE	SHORT SIDE	TOTAL
BI18	3	1	8	2	1	6	3	1	8

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**CAPTIVEAIRE**

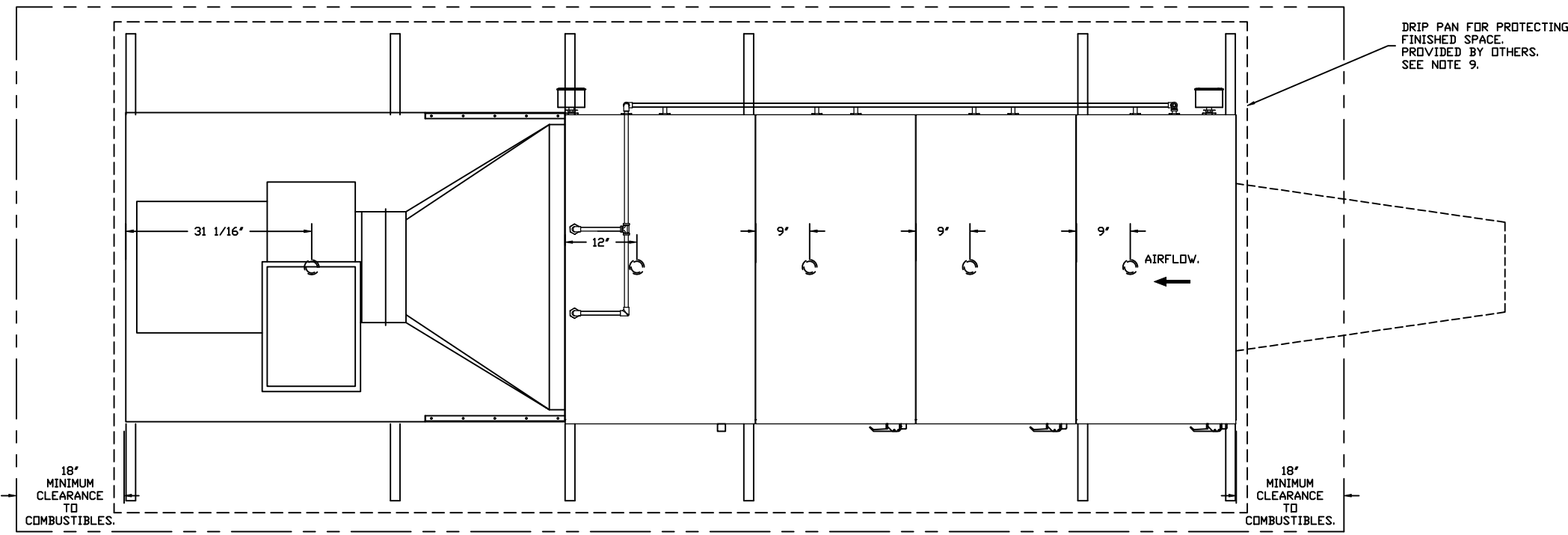
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DATE: 2/10/2025  
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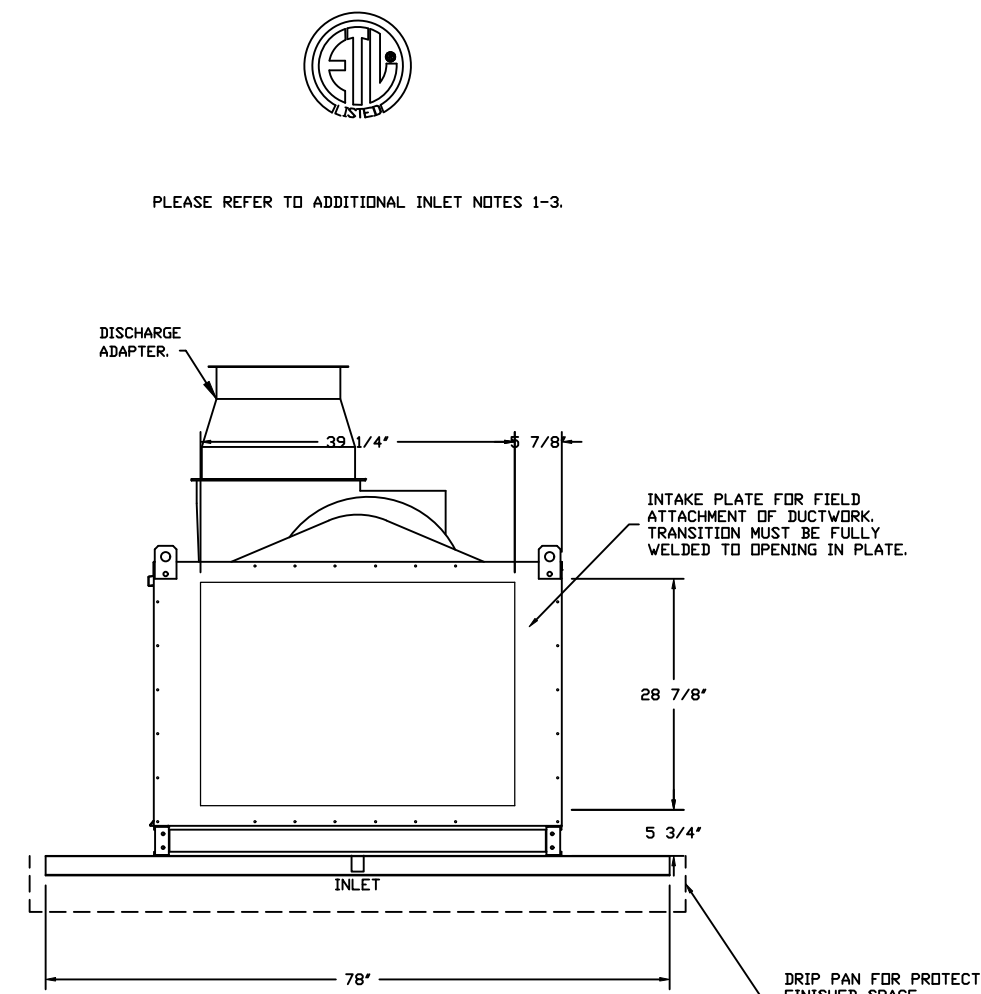
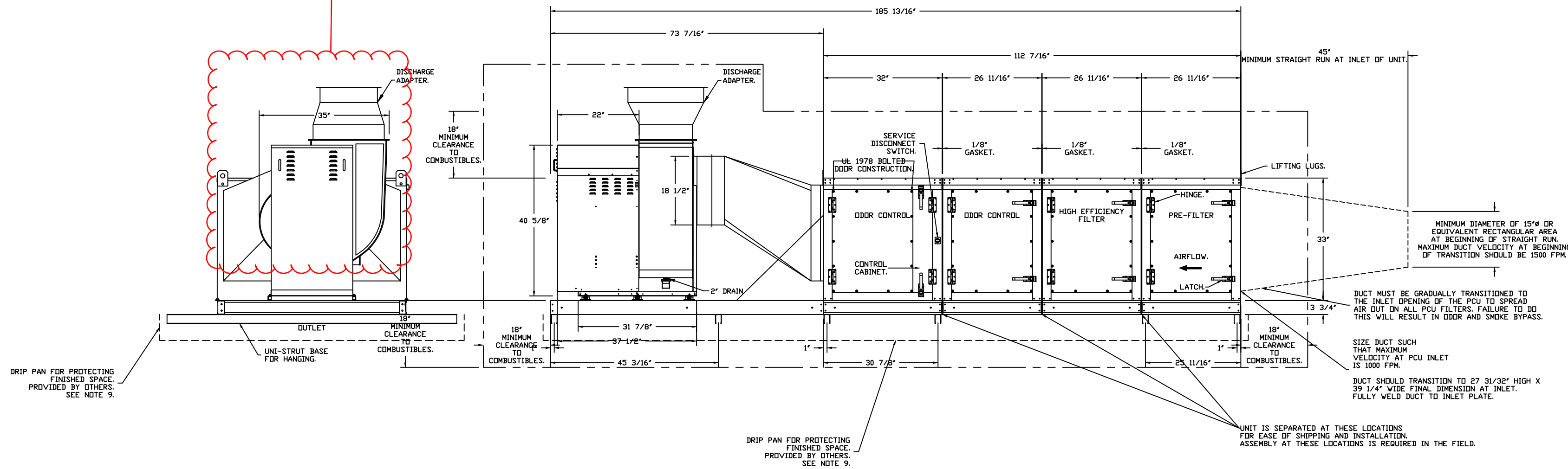
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5

DESCRIPTION:  
 FAN #2 US8180D-RM - EXHAUST FAN (PCU-1) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE-FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL ODOR CONTROL MODULES PREPARED WITH 20 OZ. M. NOZZLES AND INCLUDES DOWNSTREAM PROTECTION, ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



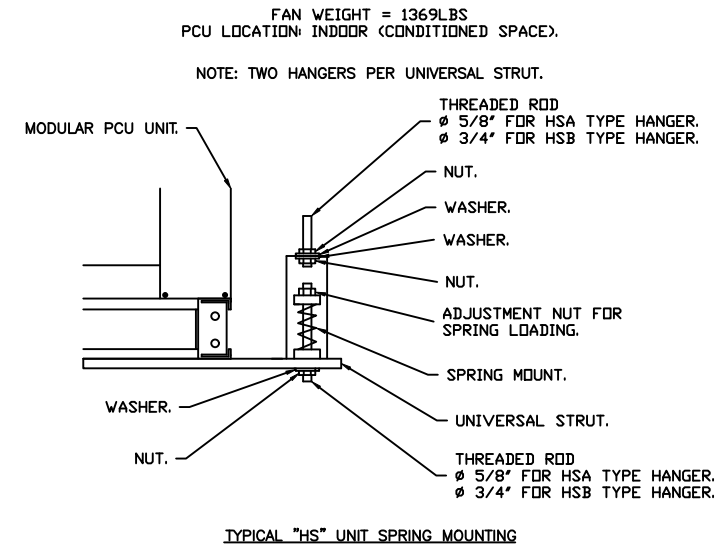
PCU FILTER SPECIFICATIONS				
DESIGN CFM - 1900				
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE (SP/CLEAN) (in WC)
1	CAPTRATE SLD	MERV 8	6	20X25X2 0.117
2	HIGH EFFICIENCY	MERV 15	6	20X25X4 0.111
3	DC CAUSTIC IMPREGNATED	N/A	6	20X25X4 0.354
4	DC 100% CARBON	N/A	6	20X25X4 0.936

Exhaust fan discharge shall be horizontal



- NOTES:
- ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.
  - C/US UL710 LISTED FOR GREASE DUCT INSTALLATION.
  - DIRECT DRIVE EXHAUST ONLY UNIT WITH 18.75\"/>

FAN #2 US8180D-RM - EXHAUST FAN (PCU-1) - PCU #1 PCU-PF-HC-DC-DC-CPFS-2



- INLET NOTES:
- LENGTH OF STRAIGHT DUCT ON INLET OF PCU TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER TO AVOID SYSTEM EFFECT.
  - MAX INLET DUCT VELOCITY TO BE 1000 FPM INTO THE PCU. DUCTWORK SHOULD BE SIZED APPROPRIATELY.
  - DUCT MUST BE GRADUALLY TRANSITIONED TO THE INLET OPENING OF THE PCU TO SPREAD AIR OUT ON ALL PCU FILTERS. FAILURE TO DO THIS WILL RESULT IN ODOOR AND SMOKE BYPASS.

- FAN OPTIONS:
- UTILITY SET GREASE CUP
  - BI - DISCHARGE ORIENTATION VERTICAL (UPPER LEFT - L-W INLET SIDE)
  - RIB - INLET CONNECTION STANDARD 2\"/>

**REVISIONS**

DESCRIPTION	DATE:

**CAPTIVE**

Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198750577 EMAIL: egr40@captivaire.com

CHIPOTLE WYNWOOD MIAMI #5416  
 176 NW 25TH STREET,  
 MIAMI, FL, 33127

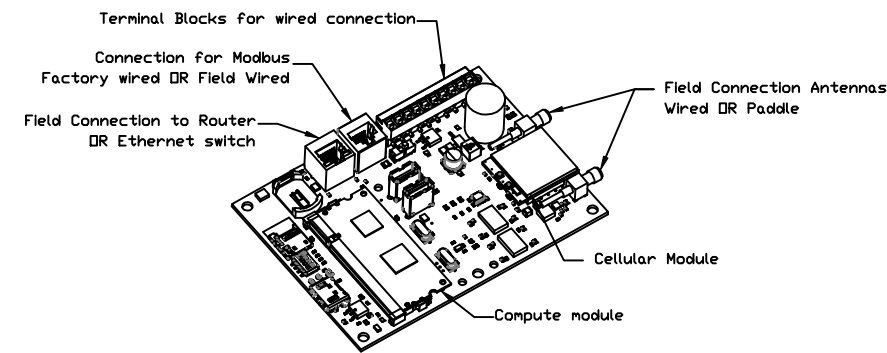
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SHEET NO. 6



ELECTRICAL PACKAGE - JOB#733396

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-310110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	PCU-1	EXHAUST	3	3.000	460	4.3
				HOOD # 1	1 FAN							

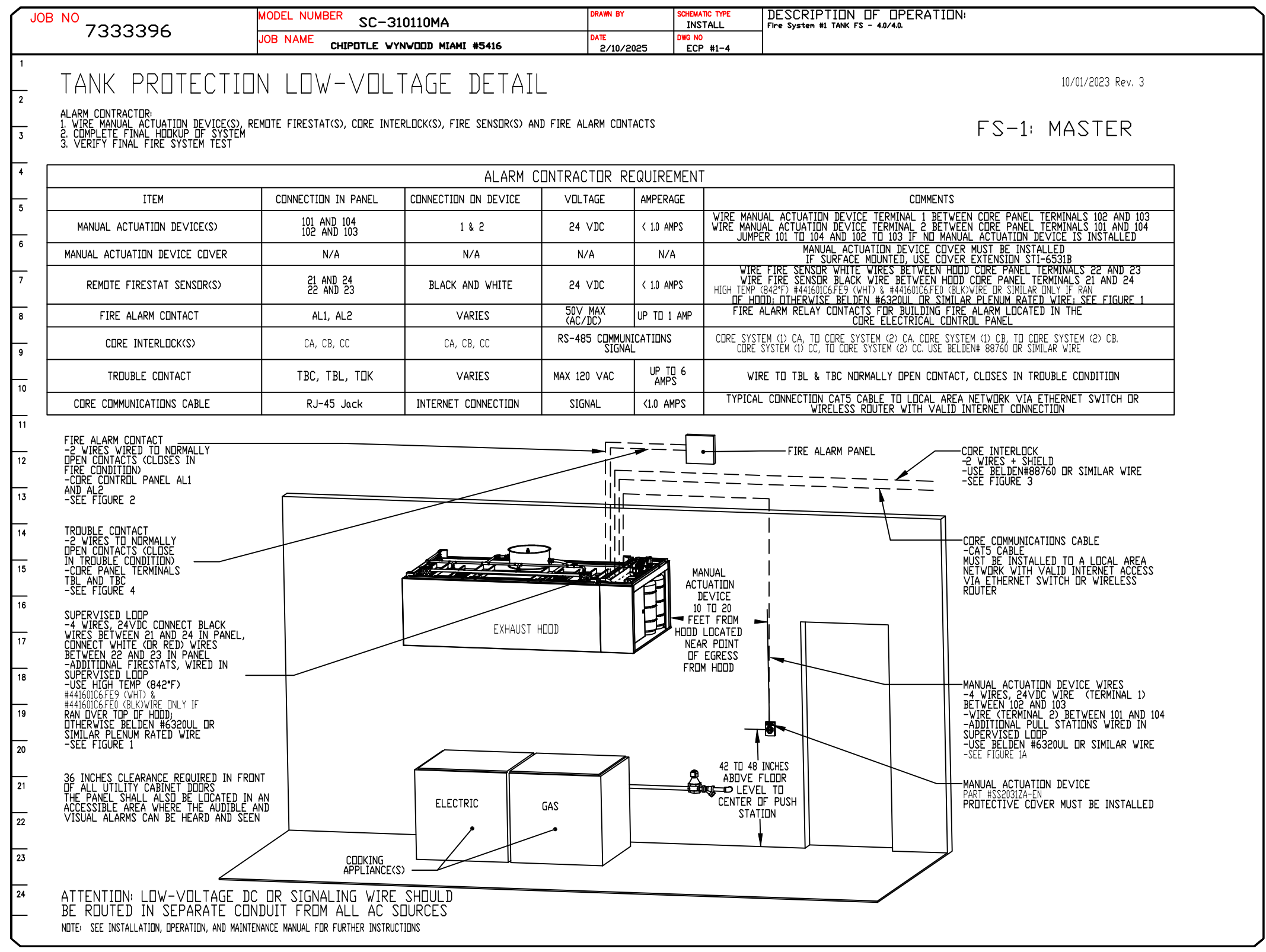
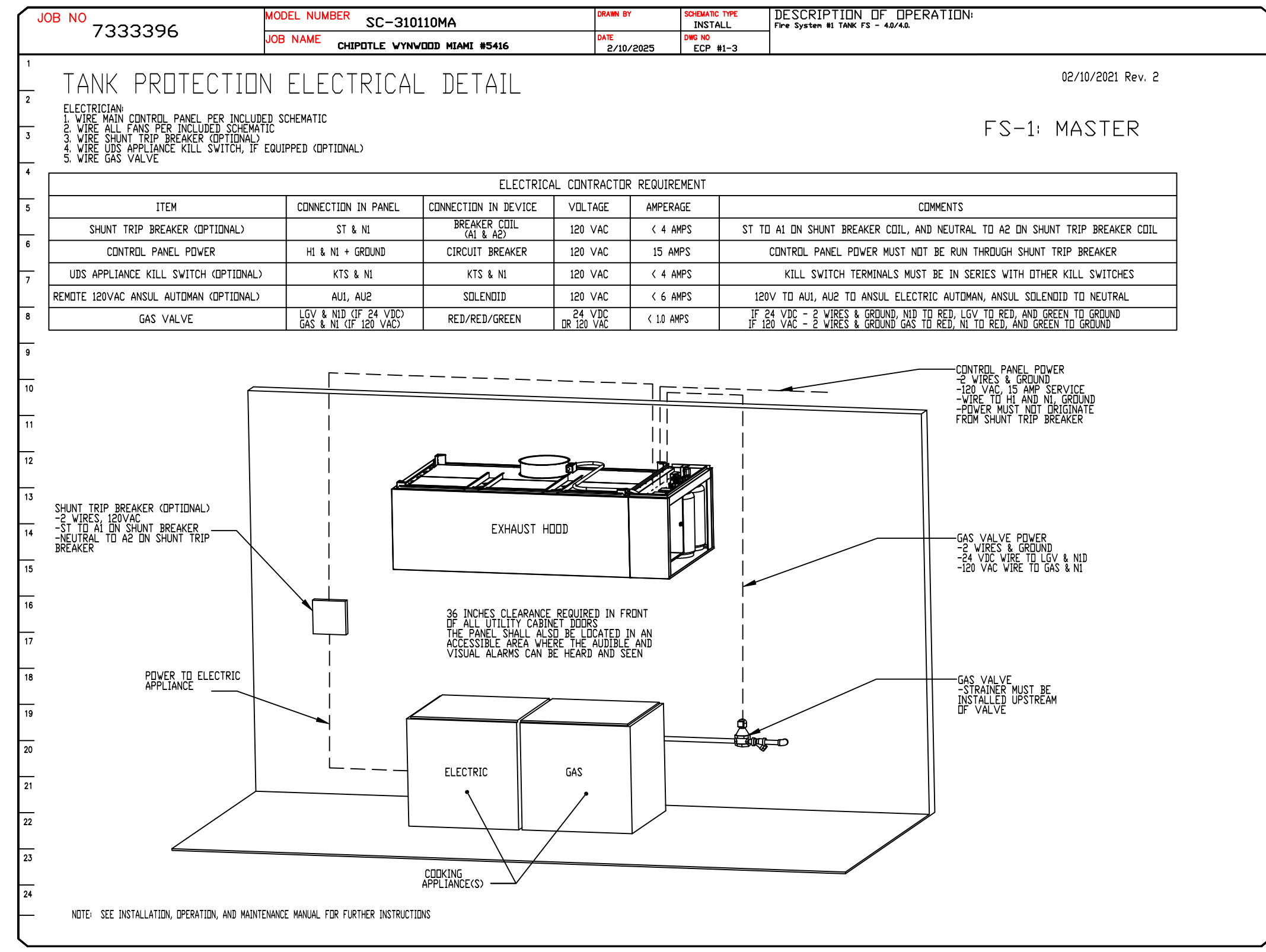
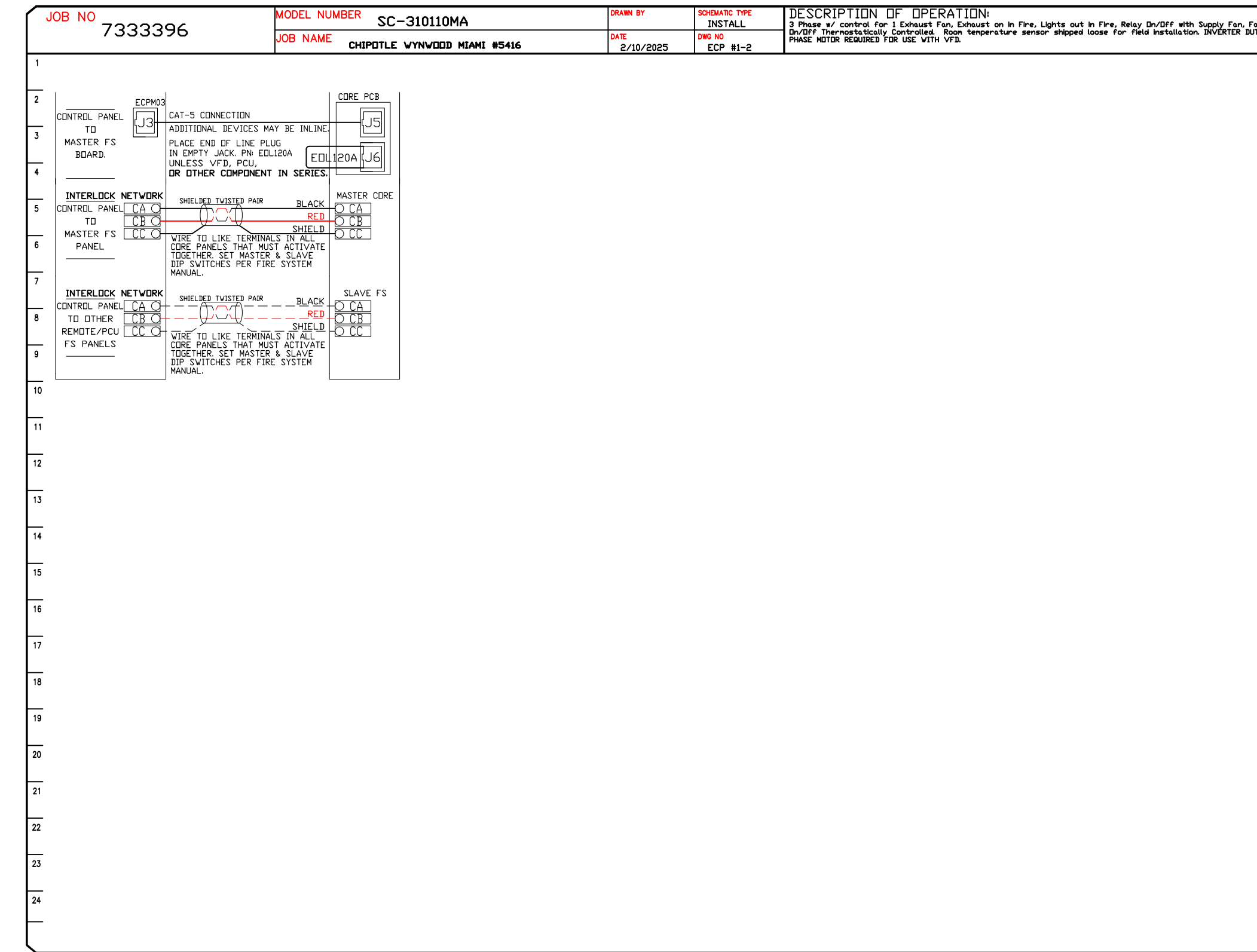
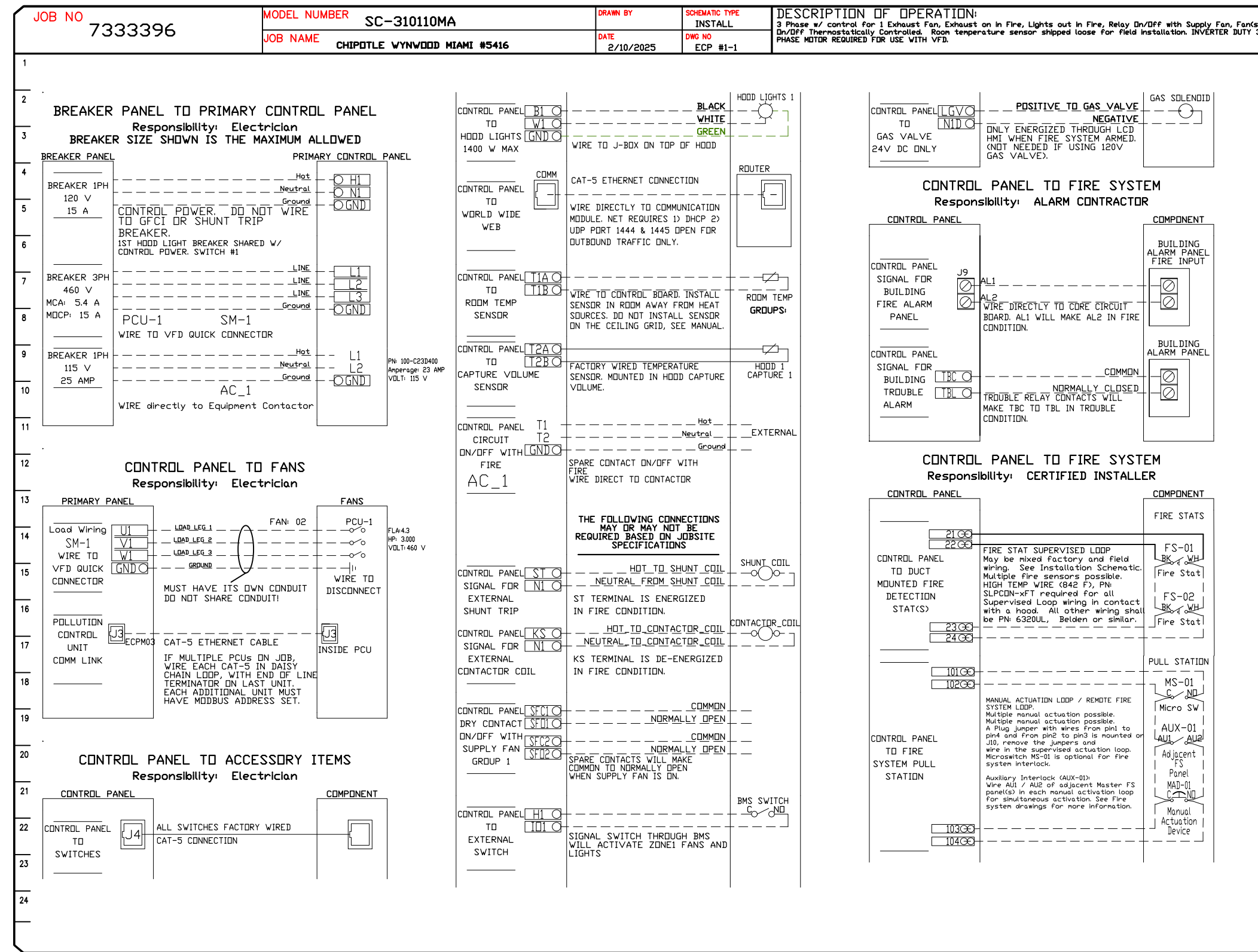


CASlink Monitor and Control

- 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.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MHA Discharge Temperature	MONITOR	MHA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Fan(s)	MONITOR
Fan Amps	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	PCU Fan(s)	MONITOR
VFD Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Controller Faults	MONITOR	Flow Condition	MONITOR
Fan Status	MONITOR	CO2 Fire System	MONITOR
Fan Status	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Light(s) Button(s)	MONITOR & CONTROL
CO2 Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Light(s) Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



REVISIONS

NO.	DESCRIPTION	DATE

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SECTION 15180 - HYDRONIC PIPING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
  1. Hydronic piping
  2. Equipment drains and over flows.
  3. Unions and flanges.
  4. Pipe hangers and supports.
  5. Valves.

1.2 SYSTEM DESCRIPTION

- A. Where more than one piping system material is specified, provide compatible system components and joints. Use non-conducting dielectric connections whenever joining dissimilar metals in open systems.
- B. Provide flanges, union, and couplings at locations requiring servicing. Use unions, flanges, and couplings downstream of valves and at equipment or apparatus connections. Do not use direct welded or threaded connections to valves, equipment or other apparatus.
- C. Provide pipe hangers and supports in accordance with MSS SP 69.
- D. Use ball valves for shut-off and to isolate equipment, part of systems, or vertical risers.
- E. Use ball or butterfly valves for throttling, bypass, or manual flow control services.

PART 2 - PRODUCTS

2.1 HYDRONIC PIPING, ABOVE GROUND

- A. Steel Pipe: ASTM A53/AS3M, Schedule 40,
- B. Joints: Threaded for pipe 2 inch and smaller
  1. Fittings: ASME B16.3, malleable iron.
- C. Joints: Threaded for pipe 2-1/2 inch and larger
  1. Fittings: ASTM A234 carbon steel, grooved ends.
  2. Joints: Grooved mechanical couplings meeting ASTM F1476.
    - a. Gasket: Elastomer composition for operating temperature range from -30 degrees F to 180degrees F.
- D. Copper Tubing: ASTM B88, Type K drawn.
  1. Fittings: ASME B16.18, cast brass, or ASME B16.22 solder wrought copper.

2.2 EQUIPMENT DRAINS AND OVERFLOWS

- A. PVC Pipe: ASTM D1785, Schedule 40,
- 1. Fittings: ASTM D2466, Schedule 40, PVC.
- 2. Joints: ASTM D2855, solvent weld with ASTM D2564 solvent cement.

2.3 UNIONS AND FLANGES

- A. Unions for Pipe 2 inches and Smaller:
  1. Ferrous Piping: Class 150, malleable iron, threaded.
  2. Copper Piping: Class 150, bronze unions with soldered.
  3. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.
- B. Flanges for Pipe 2-1/2 inches and Larger:
  1. Ferrous Piping: Class [150] [250] [300], forged steel, slip-on flanges.
  2. Copper Piping: Class 150, slip-on bronze flanges.
  3. PVC Piping: PVC flanges.
  4. CPVC Piping: CPVC flanges.
  5. Gaskets: 1/16 inch thick preformed neoprene gaskets.
- C. PVC Pipe Materials: For connections to equipment and valves with threaded connections, furnish solvent-weld socket to screwed joint adapters and unions, or ASTM D2464, Schedule 80, threaded, PVC pipe.

2.4 BALL VALVES

- A. 2 inches and Smaller: MSS SP 110, 400 psi WOG two piece bronze body, chrome plated brass ball, full port, teflon seats, blow-out proof stem, solder or threaded ends with union, lever handle.

2.5 BUTTERFLY VALVES

- A. 2-1/2 inches and Larger: MSS SP 67, Class 150.
  1. Body: Cast or ductile iron, grooved ends, stainless steel stem, extended neck.
  2. Disc: Elastomer coated ductile iron.
  3. Seat: Resilient replaceable EPDM.
  4. Handle and Operator: Infinite position lever handle with memory stop.

2.6 PIPE HANGERS AND SUPPORTS

- A. Conform MSS SP 69.
- B. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Carbon steel, adjustable swivel, split ring.
- C. Hangers for Pipe Sizes 2-1/2 inches and Larger: Carbon steel, adjustable, clevis.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Ream pipe and tube ends. Remove burrs.
- B. Remove scale and dirt on inside and outside before assembly.
- C. Prepare piping connections to equipment with flanges or unions.
- D. Keep open ends of pipe free from scale and dirt. Protect open ends with temporary plugs or caps.

3.2 INSTALLATION - PIPE HANGERS AND SUPPORTS

- A. Install in accordance with MSS SP 69.
- B. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
- C. Place hangers within 12 inches of each horizontal elbow.
- D. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
- E. Where installing several pipes in parallel and at same elevation, provide multiple pipe hangers or trapeze hangers.
- F. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

3.3 INSTALLATION - ABOVE GROUND PIPING SYSTEMS

- A. Route piping parallel to building structure and maintain gradient.
- B. Install piping to conserve building space, and not interfere with use of space.
- C. Group piping whenever practical at common elevations.
- D. Install firestopping at fire rated construction perimeters and openings containing penetrating sleeves and piping.
- E. Provide access where valves and fittings are not exposed.
- F. Slope hydronic piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe aligned.
- G. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welds.
- H. Prepare unfinished pipe, fittings, supports, and accessories, ready for finish painting.
- I. Insulate piping and equipment; refer to Section 15080.

END OF SECTION

SECTION 15745 - WATER SOURCE HEAT PUMP UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 15.
- C. EER: Equal to or greater than prescribed by ASHRAE 90.1, "Energy Efficient Design of New Building, except Low Rise Residential Buildings."
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
  1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
  2. Refrigerant Coils: Aluminum fins and copper coil.
  3. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
  4. Refrigerant-to-Water Heat Exchangers: Coaxial heat exchangers with copper water tube with enhanced heat-transfer surfaces inside a steel shell; both shell and tube leak tested to 450 psig on refrigerant side and 400 psig on water side. Factory mount heat exchanger in unit on resilient rubber vibration isolators.
  5. Economizer controls (Dry bulb, 100% capacity).
  6. Low ambient controls.
  7. Smoke Detectors: Photoelectric.
  8. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb and firmly anchored.
- B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.
- D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.
- E. Connect units to wiring systems and to ground.

END OF SECTION 15745

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data for fire and smoke dampers.
- B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
- D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- E. Comply with UL 181 and UL 181A for ducts and closures.
- F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
  1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
  2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- C. Duct Liner: ASTM C 1071, Type I, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
  1. Adhesive: ASTM C 916, Type I.
  2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- D. Joint and Seam Tape: Comply with UL 181A.
- E. Joint and Seam Sealant: Comply with UL 181A.
- F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- C. Avoid passing through electrical equipment spaces and enclosures.
- D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- I. Install fusible links in fire dampers.
- J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
- D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- A. All air terminal devices:
  1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
  2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
  3. Material: As scheduled.
  4. Finish: As scheduled.
  5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC GENERAL NOTES

- A. GENERAL NOTES APPLY TO HVAC SHEETS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
- K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC ABBREVIATIONS

- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- CD CEILING DIFFUSER
- CU CONDENSING UNIT
- (E) EXISTING
- EF EXHAUST FAN
- ER EXHAUST REGISTER
- EXR EXISTING
- HD HOOD
- MUA MAKEUP AIR UNIT
- ODB BLADE DAMPER
- RG RETURN GRILLE
- RTU ROOFTOP UNIT
- SR SUPPLY REGISTER
- VSC VARIABLE SPEED CONTROL

- CO2AS TENANT'S CO2 ALARM SUPPLIER
- GC GENERAL CONTRACTOR
- HES TENANT'S HVAC EQUIPMENT SUPPLIER
- HS TENANT'S HOOD SUPPLIER
- KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
- TAB TENANT'S TEST AND BALANCE VENDOR
- TCC TENANT'S CABLING CONTRACTOR
- TDC TENANT'S DUCT CLEANER
- TEMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
- TLS TENANT'S LIGHT/LAMP SUPPLIER
- TMB TENANT'S MENU BOARD SUPPLIER
- TMS TENANT'S MILLWORK SUPPLIER
- TP TENANT'S PHONE SUPPLIER
- TPS TENANT'S PANELBOARD SUPPLIER
- TRS TENANT'S RAILING SUPPLIER
- TSV TENANT'S SIGN VENDOR
- TUV TENANT'S UV SANITIZER SUPPLIER
- WCS TENANT'S WALK-IN COOLER SUPPLIER
- WHS TENANT'S WATER HEATER SUPPLIER

HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON OR UL 1978 FACTORY-MANUFACTURED DUCT, NO WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN GRILLE
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT
- GRIDPOINT ZONE SENSOR MODULE
- GRIDPOINT SUPPLY PROBE
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- GRILLE, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

Consultant:



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 Phone: (614) 751-9610  
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 02/21/2025 BID SET

Revisions:

Drawn: MPC Checked: MPC  
 Project No. 2401074

Contents:

HVAC SPECIFICATIONS

M010

**Air System Sizing Summary for HP-1**

Project Name: Chipotle - Wynwood\_FL 11/08/2024  
 Prepared by: National Engineering 10:00AM

**Air System Information**  
 Air System Name: HP-1  
 Equipment Class: PKG ROOF  
 Air System Type: SZCAV  
 Number of zones: 1  
 Floor Area: 936.0 ft<sup>2</sup>  
 Location: Miami IAP, Florida

**Sizing Calculation Information**  
 Calculation Months: Jan to Dec  
 Sizing Date: Calculated  
 Zone CFM Sizing: Sum of space airflow rates  
 Space CFM Sizing: Individual peak space loads

**Central Cooling Coil Sizing Data**  
 Total coil load: 10.0 Tons  
 Total coil load: 120.1 MBH  
 Sensible coil load: 78.8 MBH  
 Coil CFM at Jul 1300: 4500 CFM  
 Max block CFM: 4500 CFM  
 Sum of peak zone CFM: 4500 CFM  
 Sensible heat ratio: 0.657  
 CFM/Ton: 448.8  
 RT/Ton: 93.6  
 BTU/hr (RT): 128.3  
 Water flow @ 10.0 °F rise: N/A  
 Load occurs at: Jul 1300  
 OA DB / WB: 91.7 / 77.7 °F  
 Entering DB / WB: 77.1 / 66.3 °F  
 Leaving DB / WB: 60.8 / 60.1 °F  
 Coil ADP: 59.0 °F  
 Bypass Factor: 0.100  
 Resulting RH: 67 %  
 Design supply temp: 60.8 °F  
 Zone T-stat Check: 1 of 1 OK  
 Max zone temperature deviation: 0.0 °F

**Central Heating Coil Sizing Data**  
 Max coil load: 25.6 MBH  
 Coil CFM at Des Htg: 4500 CFM  
 Max coil CFM: 4500 CFM  
 Water flow @ 20.0 °F drop: N/A  
 Load occurs at: Des Htg  
 BTU/hr (rt): 27.3  
 Ent. DB / Lvg DB: 63.1 / 66.4 °F

**Supply Fan Sizing Data**  
 Actual max CFM: 4500 CFM  
 Standard CFM: 4498 CFM  
 Actual max CFM/RT: 4.81 CFM/RT  
 Fan motor BHP: 0.00 BHP  
 Fan motor kW: 0.00 kW  
 Fan static: 0.00 in wg

**Outdoor Ventilation Air Data**  
 Design airflow CFM: 1000 CFM  
 CFM/RT: 1.07 CFM/RT  
 CFM/person: 111.11 CFM/person

**Air System Design Load Summary for HP-1**

Project Name: Chipotle - Wynwood\_FL 11/08/2024  
 Prepared by: National Engineering 10:00AM

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1300 COOLING OA DB / WB 91.7 °F / 77.7 °F			HEATING DATA AT DES HGT HEATING OA DB / WB 46.0 °F / 38.6 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	72 RT	1347	-	72 RT	-	-
Wall Transmission	78 RT	459	-	78 RT	452	-
Roof Transmission	0 RT	0	-	0 RT	0	-
Window Transmission	72 RT	1208	-	72 RT	1489	-
Skylight Transmission	0 RT	0	-	0 RT	0	-
Door Loads	0 RT	0	-	0 RT	0	-
Floor Transmission	0 RT	0	-	0 RT	0	-
Partitions	0 RT	0	-	0 RT	0	-
Ceiling	0 RT	0	-	0 RT	0	-
Overhead Lighting	1381 W	3038	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	9	1861	2430	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	43600	11750	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	52412	14180	-	1941	0
Zone Conditioning	-	58473	14180	-	1790	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	4500 CFM	0	-	4500 CFM	0	-
Ventilation Load	1000 CFM	20362	27035	1000 CFM	23762	0
Supply Fan Load	4500 CFM	0	-	4500 CFM	0	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	-	78835	41216	-	25522	0
Central Cooling Coil	-	78835	41218	-	0	0
Central Heating Coil	-	0	-	-	25522	0
>> Total Conditioning	-	78835	41218	-	25522	0

**Key:**  
 Positive values are clg loads  
 Negative values are htg loads

**Air System Sizing Summary for HP-2**

Project Name: Chipotle - Wynwood\_FL 11/08/2024  
 Prepared by: National Engineering 10:00AM

**Air System Information**  
 Air System Name: HP-2  
 Equipment Class: PKG ROOF  
 Air System Type: SZCAV  
 Number of zones: 1  
 Floor Area: 990.0 ft<sup>2</sup>  
 Location: Miami IAP, Florida

**Sizing Calculation Information**  
 Calculation Months: Jan to Dec  
 Sizing Date: Calculated  
 Zone CFM Sizing: Sum of space airflow rates  
 Space CFM Sizing: Individual peak space loads

**Central Cooling Coil Sizing Data**  
 Total coil load: 8.2 Tons  
 Total coil load: 99.0 MBH  
 Sensible coil load: 60.8 MBH  
 Coil CFM at Jul 1400: 4000 CFM  
 Max block CFM: 4000 CFM  
 Sum of peak zone CFM: 4000 CFM  
 Sensible heat ratio: 0.614  
 CFM/Ton: 484.9  
 RT/Ton: 120.0  
 BTU/hr (RT): 100.0  
 Water flow @ 10.0 °F rise: N/A  
 Load occurs at: Jul 1400  
 OA DB / WB: 92.7 / 77.9 °F  
 Entering DB / WB: 78.4 / 70.8 °F  
 Leaving DB / WB: 64.4 / 63.7 °F  
 Coil ADP: 62.8 °F  
 Bypass Factor: 0.100  
 Resulting RH: 77 %  
 Design supply temp: 64.0 °F  
 Zone T-stat Check: 1 of 1 OK  
 Max zone temperature deviation: 0.0 °F

**Central Heating Coil Sizing Data**  
 Max coil load: 32.4 MBH  
 Coil CFM at Des Htg: 4000 CFM  
 Max coil CFM: 4000 CFM  
 Water flow @ 20.0 °F drop: N/A  
 Load occurs at: Des Htg  
 BTU/hr (rt): 32.7  
 Ent. DB / Lvg DB: 61.4 / 66.9 °F

**Supply Fan Sizing Data**  
 Actual max CFM: 4000 CFM  
 Standard CFM: 3998 CFM  
 Actual max CFM/RT: 4.04 CFM/RT  
 Fan motor BHP: 0.00 BHP  
 Fan motor kW: 0.00 kW  
 Fan static: 0.00 in wg

**Outdoor Ventilation Air Data**  
 Design airflow CFM: 1100 CFM  
 CFM/RT: 1.11 CFM/RT  
 CFM/person: 16.71 CFM/person

**Air System Design Load Summary for HP-2**

Project Name: Chipotle - Wynwood\_FL 11/08/2024  
 Prepared by: National Engineering 10:00AM

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400 COOLING OA DB / WB 92.7 °F / 77.9 °F			HEATING DATA AT DES HGT HEATING OA DB / WB 46.0 °F / 38.6 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	147 RT	3741	-	147 RT	-	-
Wall Transmission	78 RT	505	-	78 RT	452	-
Roof Transmission	0 RT	0	-	0 RT	0	-
Window Transmission	147 RT	2569	-	147 RT	3040	-
Skylight Transmission	0 RT	0	-	0 RT	0	-
Door Loads	0 RT	0	-	0 RT	0	-
Floor Transmission	0 RT	0	-	0 RT	0	-
Partitions	0 RT	0	-	0 RT	0	-
Ceiling	0 RT	0	-	0 RT	0	-
Overhead Lighting	1485 W	4635	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	70	12454	14350	0	0	0
Infiltration	-	4460	3664	-	4750	0
Miscellaneous	-	3565	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	31929	18014	-	8242	0
Zone Conditioning	-	37515	18014	-	7134	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	4000 CFM	0	-	4000 CFM	0	-
Ventilation Load	1100 CFM	23285	20146	1100 CFM	25271	0
Supply Fan Load	4000 CFM	0	-	4000 CFM	0	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	-	60810	38169	-	32405	0
Central Cooling Coil	-	60810	38174	-	0	0
Central Heating Coil	-	0	-	-	32405	0
>> Total Conditioning	-	60810	38174	-	32405	0

**Key:**  
 Positive values are clg loads  
 Negative values are htg loads



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 HVAC LOAD CALCS

M020





### VENTILATION SCHEDULE

NOTE: AREAS AND NUMBER OF OCCUPANTS SHOWN ARE FOR VENTILATION CALCULATIONS ONLY

SPACE	AREA	OCCUPANTS		MINIMUM VENTILATION RATE			EFFECTIVENESS	TOTAL REQUIRED	TOTAL PROVIDED
		PEOPLE/1,000 SF	# OCCUPANTS	CFM/PERSON	CFM/SF	TOTAL			
DINING ROOM	1,102 SF	70	77	7.5 CFM	0.18 CFM/SF	777 CFM	0.8	971 CFM	987 CFM
KITCHEN	1,031 SF	20	21	7.5 CFM	0.12 CFM/SF	278 CFM	0.8	348 CFM	1063 CFM
OFFICE	46 SF	5	0	5.0 CFM	0.06 CFM/SF	4 CFM	0.8	5 CFM	37 CFM
RESTROOM 1	83 SF	0	0	0.0 CFM	0.00 CFM/SF	0 CFM	0.8	0 CFM	13 CFM
RESTROOM 2	63 SF	0	0	0.0 CFM	0.00 CFM/SF	0 CFM	0.8	0 CFM	0 CFM

### EXHAUST SCHEDULE

NOTE: AREAS SHOWN ARE FOR EXHAUST CALCULATIONS ONLY

SPACE	AREA	REQUIRED EXHAUST		TOTAL	TOTAL PROVIDED	COMMENTS
		PER AREA	PER FIXTURE			
DINING ROOM	1,102 SF	0.00 CFM/SF	0 CFM	0 CFM	0 CFM	
KITCHEN	1,031 SF	0.70 CFM/SF	0 CFM	722 CFM	1900 CFM	
OFFICE	46 SF	0.00 CFM/SF	0 CFM	0 CFM	0 CFM	
RESTROOM 1	83 SF	0.00 CFM/SF	50 CFM	50 CFM	75 CFM	CONTINUOUS EXHAUST
RESTROOM 2	63 SF	0.00 CFM/SF	50 CFM	50 CFM	75 CFM	CONTINUOUS EXHAUST

### GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD3	PERFORATED CEILING DIFFUSER	20" X 20"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
CD4	PERFORATED CEILING DIFFUSER	20" X 20"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD5	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

### SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISH ED BY	INSTALLE D BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	2	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

### FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	150 CFM	0.50 in-wg	25	0.4 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DFA-200	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, AND BACKDRAFT DAMPER
PCU-1	DIRECT	1900 CFM	1.50 in-wg	1500	3 HP	480/3/60	HS	GC	CAPTIVE-AIRE	SIZE 2 USBI-18 DD	COMBINATION FAN AND POLLUTION CONTROL UNIT WITH 4-STAGE FILTRATION AND ODOR CONTROL. SUPPLY UNIT W/ROOF CURB, DISCONNECT SWITCH, AND FIRE SUPPRESSION

### LOUVER SCHEDULE

TAG	DESCRIPTION	SIZE	FREE AREA	FLOW	PRESSURE DROP	MATERIAL	FINISH	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
										MANUFACTURER	MODEL	
LV-1	MIAMI-DADE QUALIFIED WIND-DRIVEN RAIN EXHAUST LOUVER	36" X 51" (SEE REMARKS)	6.8 SF	1900 CFM	0.04 in-wg	ALUMINUM	KYNAR PAINT TO MATCH STOREFRONT	GC	GC	GREENHECK	EVH-501D	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL. COORDINATE SIZE W/ STOREFRONT
LV-2	MIAMI-DADE QUALIFIED WIND-DRIVEN RAIN INTAKE LOUVER	36" X 51" (SEE REMARKS)	6.8 SF	2100 CFM	0.04 in-wg	ALUMINUM	KYNAR PAINT TO MATCH STOREFRONT	GC	GC	GREENHECK	EVH-501D	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL. COORDINATE SIZE W/ STOREFRONT
LV-3	MIAMI-DADE QUALIFIED WIND-DRIVEN RAIN EXHAUST LOUVER	12" X 12"	0.3 SF	150 CFM	0.04 in-wg	ALUMINUM	KYNAR PAINT TO MATCH STOREFRONT	GC	GC	GREENHECK	EVH-501D	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL

### CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-448A	29	250	20 A	15.0 A	208/3/60	WCS	GC	EVERIDGE	RF0151E4SEANT	FURNISHED WITH WALK-IN COOLER

### KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM DUCT COLLARS					NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS		
			AIRFLOW	E.S.P.	NO.	WIDTH	LENGTH					MANUFACTURER	MODEL			
HD-1	TYPE I CANOPY HOOD	600 °F	1,900 CFM	0.82 in-wg	1	10"	1' - 6"	9' - 4"	4' - 3"	6	800 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

### WATER SOURCE HEAT PUMP SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW		COOLING CAPACITY				HEATING CAPACITY			HEAT EXCHANGER		APPROXIMATE WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS		
				TOTAL [CFM]	OA [CFM]	NET TOTAL [MBH]	NET SENSIBLE [MBH]	EAT [Deg. F]	DB	WB	EWT [DEG. F]	NET OUTPUT	EAT DB	EWT		W.P.D. [FT]	FLOW [GPM]	MOCP			FLA	V/P/H		MANUFACTURER	MODEL
HP-1	KITCHEN HEAT PUMP	12-1/2	14.3	4500	1100	1.0	159	94	77	68	87	175,000 Btu/h	61 °F	68 °F	16.5	37.5	1200	30 A	22.5 A	480/3/60	HES	GC	TRANE	GEHK150	R-454b REFRIGERANT, LEFT RETURN, BACK SUPPLY. FURNISHED WITH HOT GAS REHEAT, 24V CONTROLS, CONDENSATE OVERFLOW SENSOR, MERV 8 FILTERS, HOSE KIT AND VIBRATION ISOLATORS
HP-2	DINING ROOM HEAT PUMP	10	12.4	4000	1000	1.0	133	73	79	71	87	135,000 Btu/h	61 °F	68 °F	13.9	30.0	1000	25 A	18.3 A	480/3/60	HES	GC	TRANE	GEHK120	R-454b REFRIGERANT, RIGHT RETURN, LEFT SUPPLY. FURNISHED WITH HOT GAS REHEAT, 24V CONTROLS, CONDENSATE OVERFLOW SENSOR, MERV 8 FILTERS, HOSE KIT AND VIBRATION ISOLATORS

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### AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	150	-150
HP-1	4500	3400	0	1100
HP-2	4000	3000	0	1000
PCU-1	0	0	1900	-1900
Net Pressurization [CFM]				50

### CONTROL FUNCTIONS

- THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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