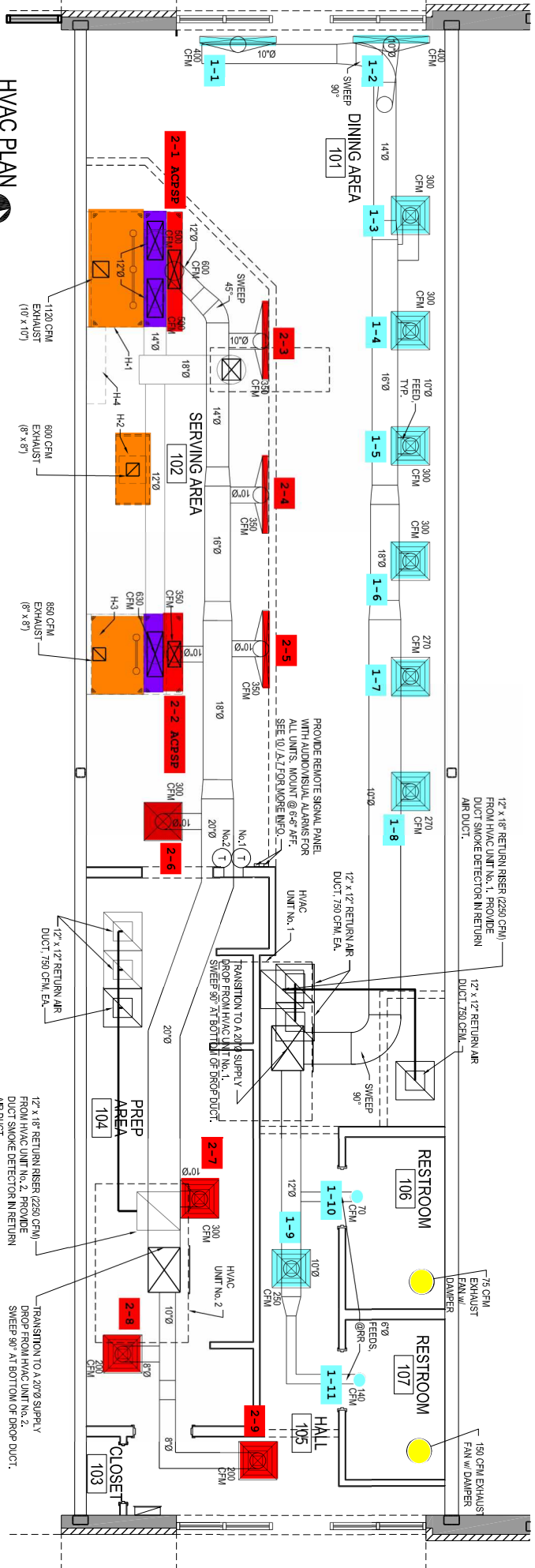
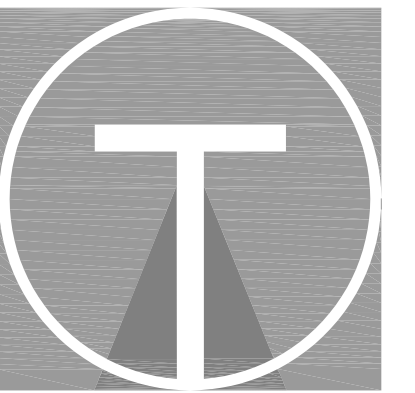


HVAC PLAN
1/4"=1'-0"
NORTH



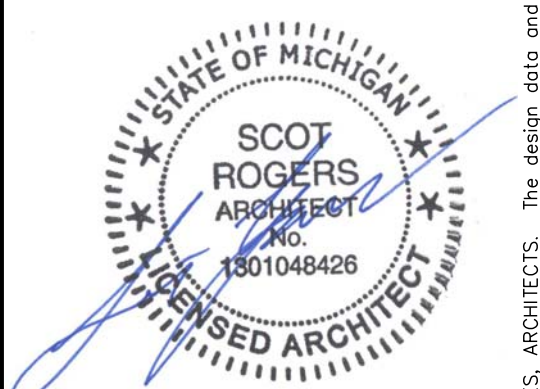


TILSLEY ARCHITECTS

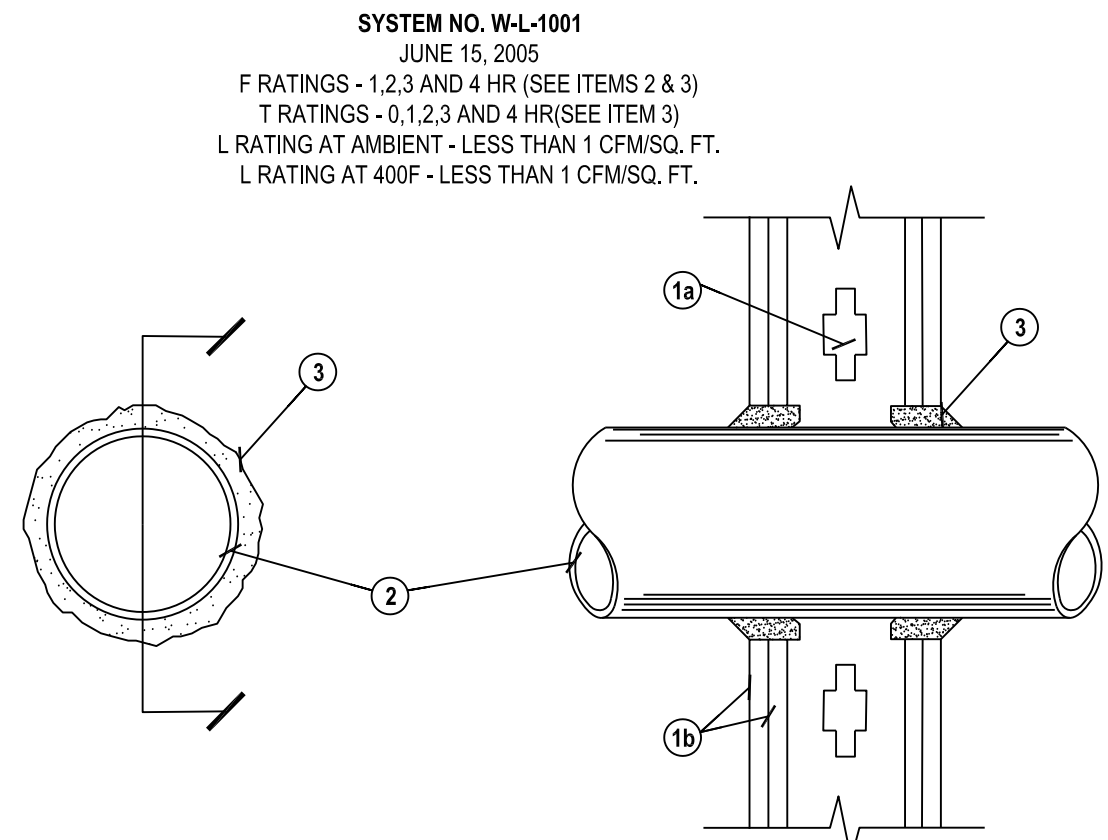
1140 SAINT GREGORY ST, CINCINNATI, OH 45202
TEL 513.651.4300
WWW.TILSLEYARCHITECTS.COM

A New Penn Station Restaurant

5609 Jackson Rd.
Ann Arbor, MI 48103



Revision table with columns for No., Revision, and Date. Includes project name 'Roof Plan & Details', date '10/21/2024', and drafter 'S. Rogers'.



- 1. Wall Assembly - The 1,2,3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs - Wall framing may consist of either wood framing (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of braces. Steel studs to be min 3-1/2 in. (92 mm) wide by 1-1/2 in. (38 mm) deep channels spaced max 24 in. (610 mm) o.c.
B. Gypsum Board - Nom 5/8 or 3/4 in. (13 or 16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 26 in. (660 mm).

- 2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm)(point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe - Nom 24 in. (610 mm) diameter (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. (610 mm) diameter (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diameter (or smaller) or class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. (152 mm) diameter (or smaller) steel conduit or nom 4 in. (102 mm) diameter (or smaller) steel electrical metallic tubing.
D. Copper Tubing - Nom 6 in. (152 mm) diameter (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe - Nom 6 in. (152 mm) diameter (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

- 1. Nom 2 in. (51 mm) diameter (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. OMEGA FLEX INC
2. Nom 1 in. (25 mm) diameter (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. TITELIX CORP A BUNDY CO
3. Nom 1 in. (25mm) diameter (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. WARD MFG INC

- 3. Fill, Void or Cavity Material - Caulk or Sealant - Min 3/8, 1/2, 1 1/2 and 2 1/2 (16,32,48 and 64 mm) thickness of caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 3/8 (6 mm) diameter bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependant upon the hourly fire rating of the wall assembly in which it is install, as shown in the following table. The hourly T rating of the firestop system is dependant upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is install, as tabulated below.

Table with 3 columns: Max Pipe or Conduit Diameter in. (mm), F Rating Hr., T Rating Hr. Rows include diameters 1 (25), 1 (25), 4 (102), 6 (152), 12 (305) and corresponding ratings.

* When copper pipe is used, T Rating is 0 hr. *Bearing the UL Classification Marking
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

HVAC TEST & BALANCE SPECIFICATIONS

ALL BALANCING IS CONTRACTED BY THE RESTAURANT OWNER AND PERFORMED BY OUR PREFERRED TAB FIRM - NATIONAL TAB. NATIONAL TAB ASSISTS THE OWNER IN THE BALANCING PROCESS FROM INITIAL PLANNING THRU DOCUMENTATION CLOSEOUT. ANY QUESTIONS, PLEASE CONTACT NATIONAL TAB AT (855)682-6822 EXT: 706 (JENNIFER) OR SUBMIT REQUEST TO BIDS@NATIONALTAB.COM

1.0 GENERAL REQUIREMENTS: TEST AND BALANCE (TAB) OVERVIEW IS A GENERAL GUIDELINE OF THE PROPER FLOW OF PLANNING & BALANCING OF THE SYSTEM. IT MANDATES ALL TRADES, OWNERS, CONSTRUCTION PERSONNEL, VENDORS & BALANCING FIRM PARTICIPANTS IN THE PROCESS. PLANNING ENSURES PREPAREDNESS, PROPER INSTALLATION, AND SYSTEM READINESS. BALANCING ENSURES FUNCTION & PERFORMANCE OF THE VENTILATION SYSTEM. THE SPECIFIC TRADE REQUIREMENTS ARE TO BE CARRIED OUT TO THEIR FULLEST EXTENT. EACH ASSIGNED TRADE WILL BE HELD ACCOUNTABLE. FINAL RETAINAGE (PAYMENT) IS NOT TO BE PAID BY THE OWNER UNTIL THE SPECIFIC TRADE REQUIREMENTS HAVE BEEN MET.

2.0 PHASE I (INITIAL PLANNING & REVIEW): PLANS & SUBMITTALS DISBURSED FOR REVIEW AND SCHEDULING. TAB PROCEDURES FINALIZED AND JOB READINESS CONFIRMED.

2.1 OWNER RESPONSIBILITIES: DISTRIBUTE ALL PLANS / SUBMITTALS TO NATIONAL TAB AND PROVIDE THE REQUIRED OPENING DATES FOR THE RESTAURANT.
2.2 GENERAL CONTRACTOR RESPONSIBILITIES: CONSTRUCT A JOB SCHEDULE BASED UPON OWNER REQUIREMENTS, DATA & SCHEDULES COLLECTED FROM ALL TRADES. COMMUNICATE THE INFORMATION TO NATIONAL TAB. OBTAIN THE PRELIMINARY FIELD CHECKLIST FROM THE BALANCING CO. MANAGE ALL TRADES TO ENSURE THEY COMPLETE & SIGN OFF ON THEIR REQUIREMENTS BEFORE THE BALANCER IS SCHEDULED TO PERFORM ON SITE WORK. ENSURE THE GENERAL CONDITION OF THE BUILDING IS SIGNED OFF BY THE JOB SUPERVISOR.
2.3 NATIONAL TAB (BALANCING) RESPONSIBILITIES: REVIEW ANY PLANS & SUBMITTALS FOR ANY POSSIBLE DEFICIENCIES AND DISCREPANCIES IN DATA OR DRAWINGS. FINALIZE TAB START DATE WITH THE GENERAL CONTRACTOR AND THE PRELIMINARY CHECKLIST IS COMPLETED OR ACTION STEPS DOCUMENTED FOR ITEMS ON THE CHECKLIST THAT ARE NOT COMPLETED BEFORE EXECUTION OF BALANCING.

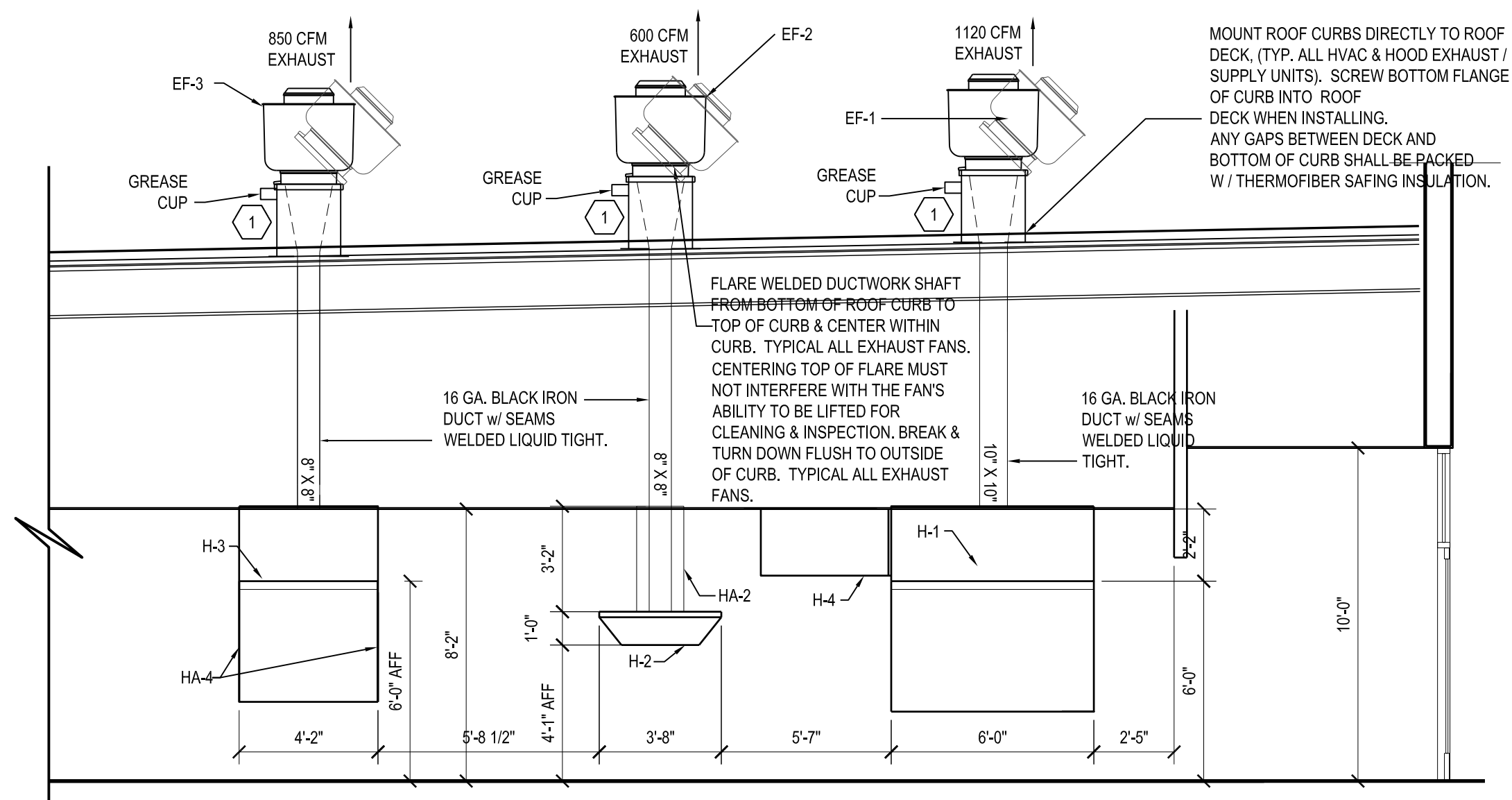
3.0 PHASE II (PRELIMINARY FIELD PROCEDURE): VERIFICATION OF SITE AND EQUIPMENT CONDITIONS. ANALYSIS OF PROPER INSTALLATION AND PERFORMANCE OF OPERATIONAL AND FUNCTIONAL TESTS.

3.1 GENERAL CONTRACTOR RESPONSIBILITIES: ENSURE ALL REQUIRED TRADES ARE PRESENT OR READILY AVAILABLE FOR THE BALANCER'S INITIAL 'WALK-THRU' & START-UP VERIFICATION. ENSURE ALL TRADES IMMEDIATELY FIX ANY ISSUE THAT THE BALANCER MAY UNCOVER DURING THE INITIAL 'WALK-THRU' THAT MAY AFFECT EQUIPMENT PERFORMANCE.
3.2 NATIONAL TAB (BALANCING) RESPONSIBILITIES: BALANCER TO PERFORM A 'WALK-THRU' IMMEDIATELY UPON ARRIVAL. ALL REQUIRED TRADES ARE TO BE PRESENT DURING THIS PROCESS OR READILY AVAILABLE. THE BALANCER MUST INFORM THE REGIONAL MANAGER AND OWNER OF ANY DEFICIENCIES THAT THE BALANCER AND TRADES NEED RESOLVED BEFORE THE BALANCING IS COMPLETED. THE FOLLOWING GENERAL TASKS ARE TO BE PERFORMED:
3.2.1. VERIFICATION OF PROPER EQUIPMENT INSTALLED ON SITE.
3.2.2. VERIFICATION OF PROPER INSTALLATION OF MECHANICAL SYSTEMS.
3.2.3. START UP ALL EQUIPMENT TO ENSURE THAT IT WAS PROPERLY STARTED UP BY TRADES.
3.2.4. COORDINATE WITH SPECIFIC TRADES ANY DEFICIENCIES THAT NEED TO BE RESOLVED BEFORE INITIATING ANY BALANCING ON EACH SPECIFIC SYSTEM.
3.3 BALANCING AND TESTING PROCEDURE: INITIATE & COMPLETE ALL REQUIRED BALANCING PROCEDURES AS STIPULATED FOR THE ACCOUNT.
3.3.1. NATIONAL TAB (BALANCING) RESPONSIBILITIES: INITIATE BALANCING OF THE SYSTEMS AS REQUIRED UNDER STRICT GUIDELINES SET FORTH UNDER NATIONAL TAB PROCEDURES & NEBB STANDARDS & PROCEDURES.

ANY ISSUES THAT ARISE DURING THE BALANCING SHALL BE DISCUSSED EXCLUSIVELY OR INCLUSIVELY WITH THE GENERAL CONTRACTOR, OWNER, CONSTRUCTION MANAGER, AND THE NATIONAL TAB BALANCING MANAGER.
3.4 FINAL ON-SITE ANALYSIS & PERFORMANCE TEST: ENSURES PERFORMANCE AND COMFORT.
3.4.1 OWNER / GENERAL CONTRACTOR RESPONSIBILITIES: PROVIDE REPRESENTATIVE TO BE PRESENT FOR ALL FINAL TESTS (SMOKE, BUILDING, ETC.) THAT THE BALANCER WILL PERFORM. SIGN OFF ON TEST IF IT MEETS REQUIREMENTS. IF ANY DEFICIENCIES STILL REMAIN UPON THE COMPLETION OF THE BALANCING, COORDINATE WITH THE REQUIRED TRADE(S) AND OWNER TO RESOLVE THE ISSUE. IF THE BALANCER IS REQUIRED TO RETURN DUE TO THE DEFICIENCY, A FEE MAY BE ASSESSED. THE FEE SHOULD BE PASSED ON TO THE TRADE THAT WAS DEFICIENT DURING THE BALANCING OF THE SYSTEM.
3.4.2 NATIONAL TAB (BALANCING) RESPONSIBILITIES: PERFORM A KITCHEN HOOD SMOKE TEST AND BUILDING PRESSURE TEST WITNESSED BY THE OWNER AND/OR GENERAL CONTRACTOR. PERFORM A FINAL WALK-THRU TO ENSURE NO EXTREME CONDITIONS OCCUR DUE TO AIRFLOW MOVEMENTS. ANY DEFICIENCIES OR UNSATISFACTORY CONDITIONS NOTED BY PERSONNEL WITNESSING THE TEST SHALL BE RESOLVED & RETESTED. IF FINAL ADJUSTMENTS ARE REQUIRED THAT ARE NOT WITHIN 10% OF DESIGN CRITERIA TO ENSURE EFFECTIVENESS OR COMFORT, CONTACT OWNER AND/OR MANAGING MEMBER FOR FURTHER EXECUTION. FINALIZE & SUBMIT FINAL DOCUMENTS FOR FINAL TAB SUPERVISOR REVIEW.

3.4.2.1 NATIONAL TAB TO ENSURE THERMOSTATS ARE PROGRAMMED AS FOLLOWS:
OCCUPIED TIME: 8:00AM TO 10:00PM UNOCCUPIED TIME: 10:00PM TO 8:00AM
OCCUPIED MODE: FANS ON, HEATING TEMP SET POINT: 68, COOLING TEMP SET POINT: 70
UNOCCUPIED MODE: FANS AUTO, HEATING TEMP SET POINT: 65, COOLING TEMP SET POINT: 73
4.0 PHASE III (FINAL DOCUMENTATION & CLOSEOUT): SUBMISSION AND APPROVAL OF BALANCE WORK.

4.1 OWNER RESPONSIBILITIES: ASSIST ON THE EXECUTION OF RESOLUTION OF ITEMS NOT RESOLVED DURING BALANCING.
4.2 NATIONAL TAB (BALANCING) RESPONSIBILITIES: ENSURE BALANCER DOCUMENTATION HAS BEEN SUBMITTED FOR MANAGEMENT & OWNER REVIEW IN A TIMELY FASHION. VERIFY COMPLETENESS OF BALANCING REPORT & DEFICIENCIES. IF ANY BALANCING ISSUES ARE UNCOVERED BY THE MANAGEMENT TEAM DURING REVIEW, IT WILL REQUIRE THE BALANCER TO PROVIDE RESOLUTION.



EXHAUST DETAIL NO SCALE

NOTE: SEE CAPTIVEAIRE SHOP DWGS (H+ SHEETS) FOR DETAILED INSTALLATION INFORMATION REGARDING HOODS AND EXHAUST FANS.

FAN SCHEDULE table with columns: ITEM NO., QTY, DESCRIPTION, MANUFACTURER, MODEL #, ELECTRICAL (VOLT, PH, LOAD), EXHAUST CFM, SUPPLY GAS SIZE, AMT, SIZE (W x D x H), NOTES, ITEM NO., BY. Lists fans for griddle, oven, fryer, and heated make-up air unit.

FAN SCHEDULE CODES: * = PROVIDE BY EC / INSTALLED BY GC

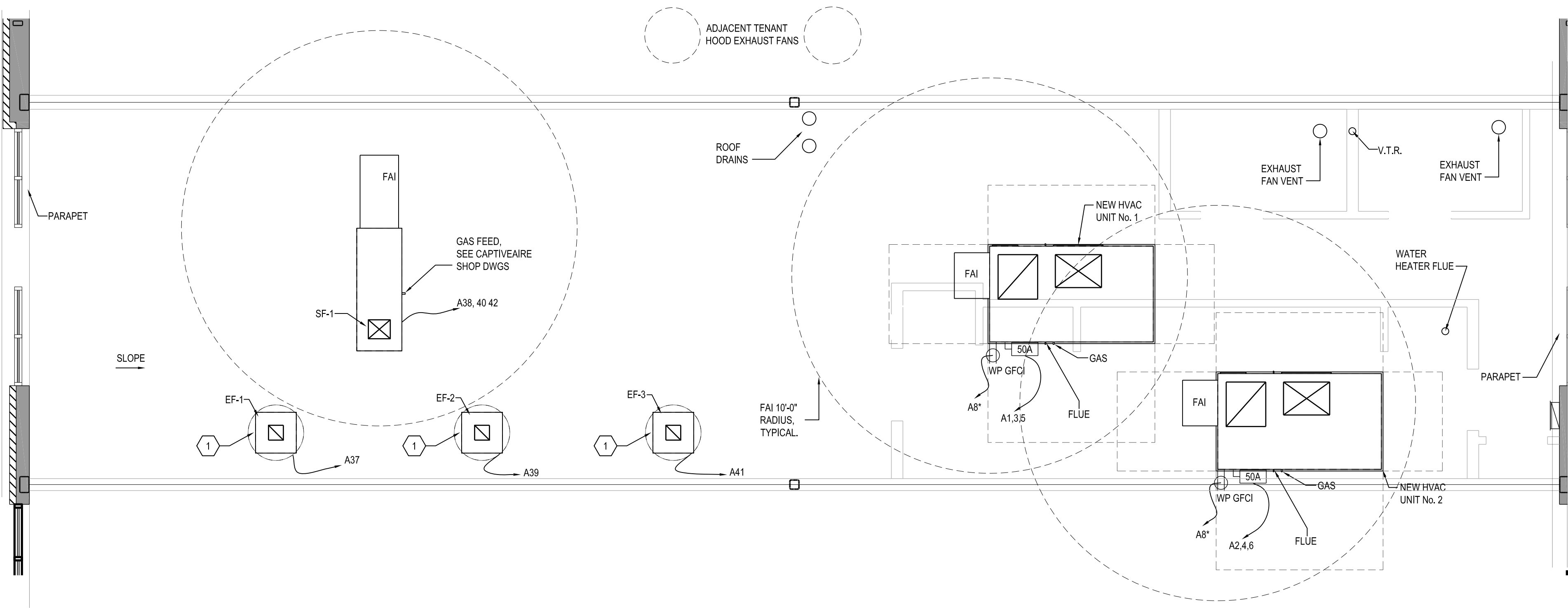
ROOF PLAN NOTES

- 1. SAND, PRIME AND PAINT EXISTING AND NEW EXPOSED GAS PIPING ON ROOF. (FEEDING PENN STATION ONLY) USE SAFETY YELLOW - OIL BASE.

ROOF PLAN KEYED NOTES

- 1. HINGE SIDE OF EXHAUST CURB.

NOTE: COORDINATE ALL PENETRATIONS WITH BUILDING OWNERS ROOFER SO AS NOT TO VOID WARRANTY. MOUNT UNITS LEVEL TO ENSURE PROPER CONDENSATE DRAINING. ALL VENTING SHALL BE DONE THROUGH THE ROOF AND NOT THE BACK WALL.



ROOF PLAN 1/4"=1'-0" FAI = FRESH AIR INLET NORTH

NOTE: ALL LEADERS LABELED WITH AN "*" (I.E. A8*) INDICATES THAT THERE ARE MORE ITEMS ON THAT CIRCUIT. SEE PANEL NOTES.

NOTE: SEE CAPTIVEAIRE SHOP DWGS FOR DETAILED INFORMATION REGARDING HOODS AND EXHAUST FANS.

HOOD INFORMATION - Job#4137855

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	APPLIANCE DUTY	DESIGN CFM/ft	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.			
								WIDTH	LENG.	HEIGHT	DIA.	CFM			VEL.	S.P.	END TO END	ROW
1	HD1-Grill	3650 BD-2	6' 0"	600 Deg.	Heavy	187	1120	10"	10"	4"		1120	1613	-0.754"	0	430 SS Where Exposed	ALONE	ALONE
2	HD1-PSP	246 MISC ACPSP-ONLY	6' 0"	300 Deg.	N/A	0	0								1000	430 SS Where Exposed	ALONE	ALONE
3	HD2-Oven	4412 PS-Ovn	1' 9.25"	300 Deg.	Light	200	600	8"	8"	4"		600	1590	-0.376"	0	430 SS 100%	ALONE	ALONE
4	HD3-Fry	3650 BD-2	4' 2"	600 Deg.	Heavy	189	850	8"	8"	4"		850	1631	-0.616"	0	430 SS Where Exposed	ALONE	ALONE
5	HD3-PSP	246 MISC ACPSP-ONLY	4' 2"	300 Deg.	N/A	0	0								630	430 SS Where Exposed	ALONE	ALONE

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

HOOD INFORMATION

HOOD NO.	TAG	TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WGT	
												FIRE SYSTEM	SIZE	ELECTRICAL			
1	HD1-Grill	Captrate Solo Filter	4	16"	16"	85% See Filter Spec.	3	L55 Series E26	NO						YES	250 LBS	
2	HD1-PSP						0								NO	106 LBS	
3	HD2-Oven	SS Baffle w/ Handles	2	10"	20"	30%	0							YES	248 LBS		
4	HD3-Fry	Captrate Solo Filter	3	16"	16"	85% See Filter Spec.	2	L55 Series E26	NO	Wall Mnt	12"x60"x24"	TANK FIRE	4/4/4	SC-E013022MA	2 Light 2 Fan	YES	225 LBS
5	HD3-PSP						0							NO	68 LBS		

HOOD OPTIONS

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

PERFORATED SUPPLY PLENUM(S)

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

WALL-MOUNT UTILITY CABINET

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

GAS VALVE(S)

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

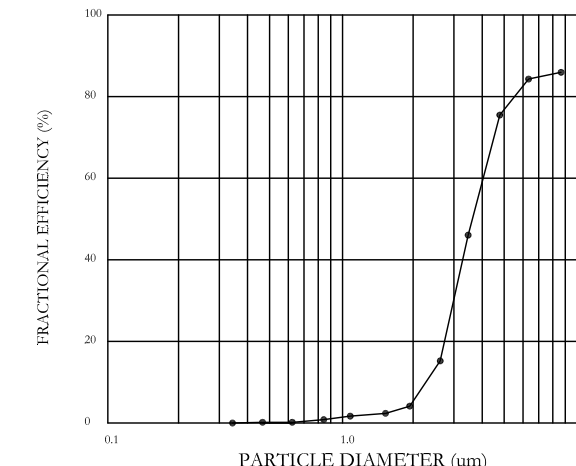
SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S). UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

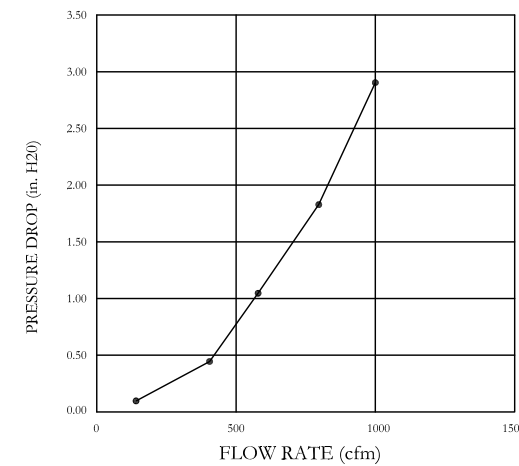
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS. PARTICLE DIAMETER

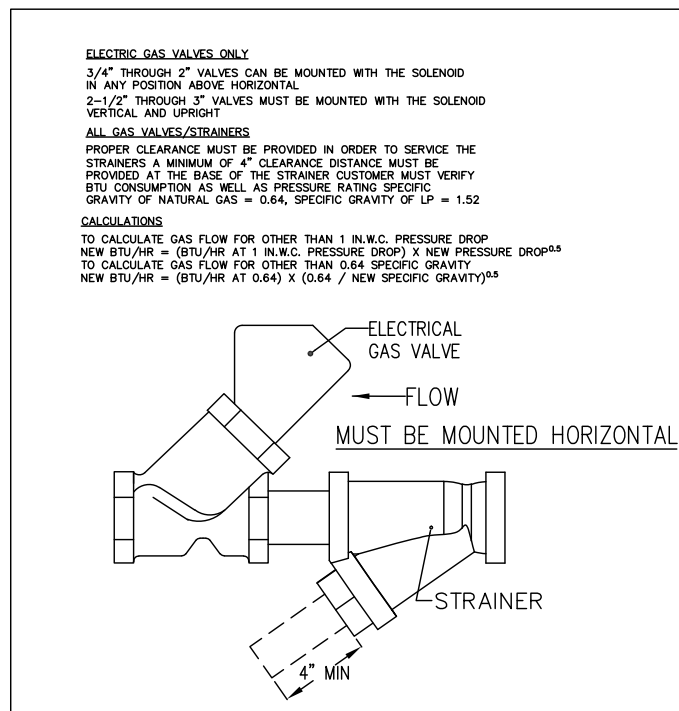


PRESSURE DROP VS. FLOW RATE

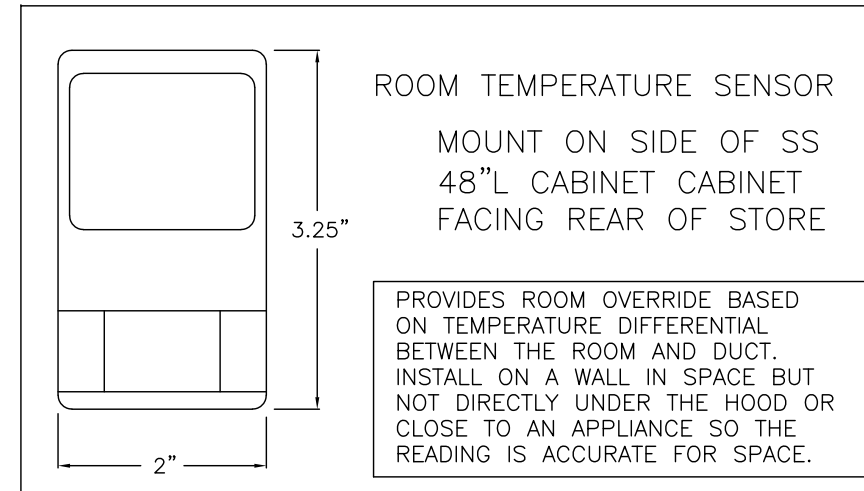


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-5649

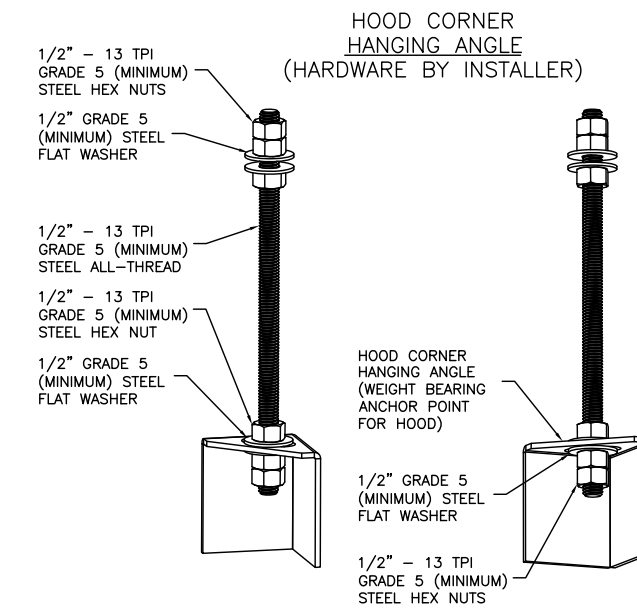


LOCATED IN 48"L X24"H 12" SS CABINET MOUNTED NEXT TO GRILL HOOD



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

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



ASSEMBLY INSTRUCTIONS

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

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

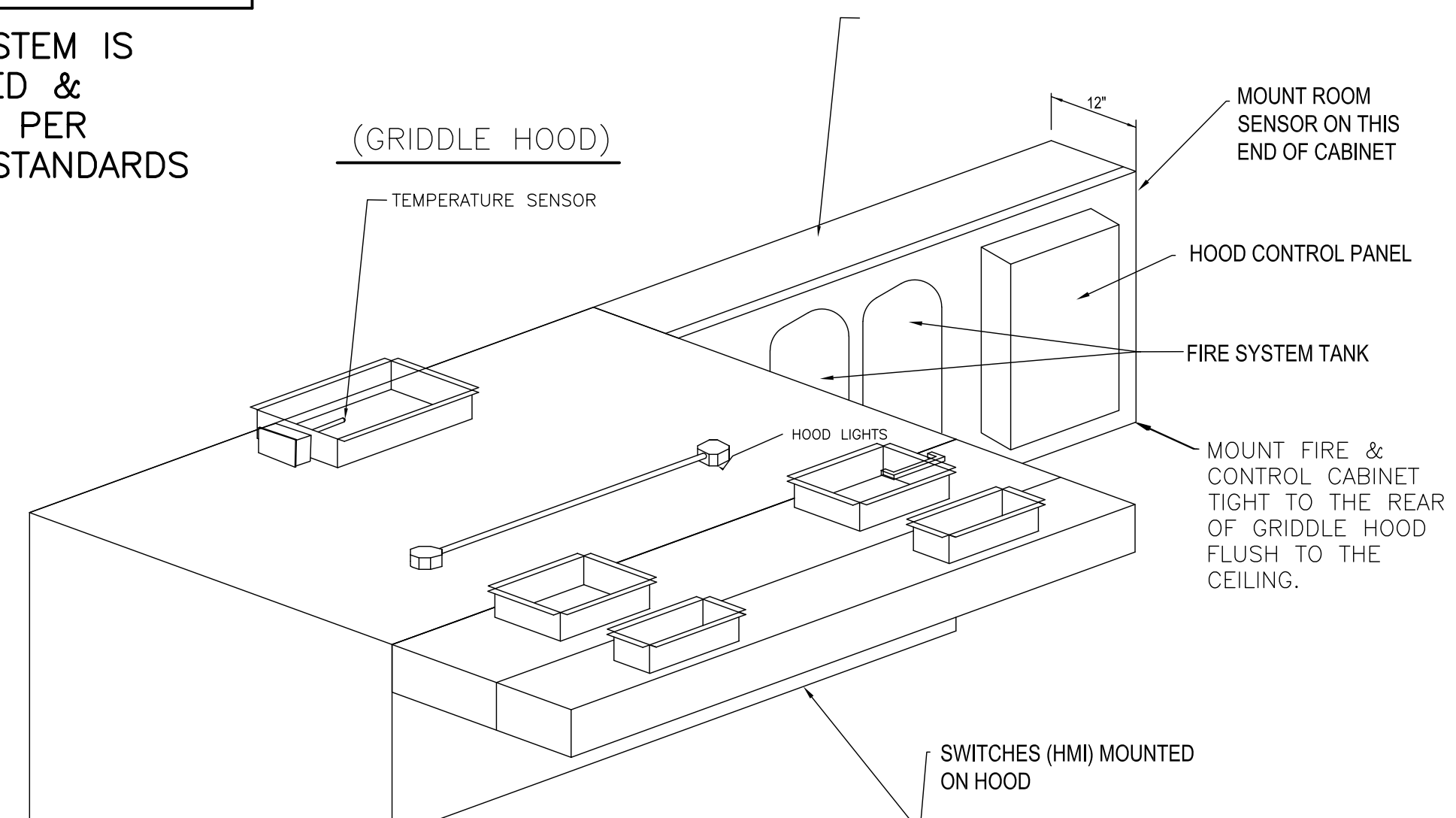
ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS

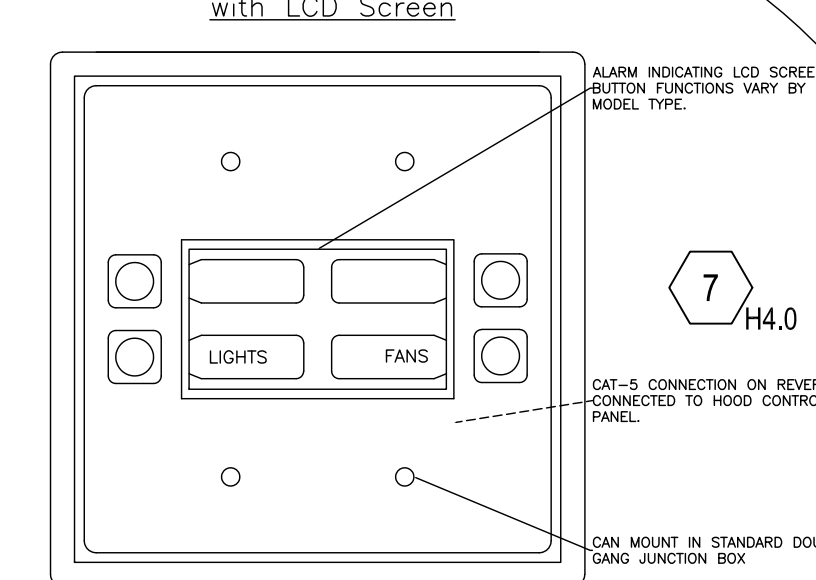
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:
ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

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

HOOD SYSTEM IS FABRICATED & DESIGNED PER UL-710 STANDARDS



HOOD CONTROL PACKAGE INTERFACE with LCD Screen



DETAIL OF HOOD MOUNTED CONTROLS INTERFACE

REVISIONS

NO.	DESCRIPTION	DATE

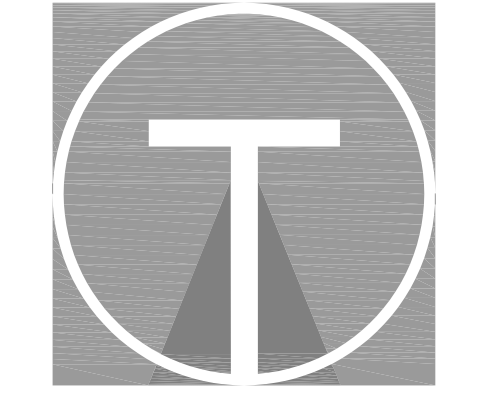
CAPTIVE-AIRE

Penn Station v2Bs

Various Locations

DATE: 7/16/20
DWG.#: 3789035
DRAWN BY: JMH120
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. H1



TILSLEY ARCHITECTS
1140 SAINT GREGORY ST. CINCINNATI, OH 45202
TEL 513.651.4300
WWW.TILSLEYARCHITECTS.COM

A New Penn Station Restaurant
5609 Jackson Rd.
Ann Arbor, MI 48103



No.	Revision

Checked by SAR Copyright © 2024. All rights reserved. This is a proprietary design of TILSLEY & ASSOCIATES, ARCHITECTS. The design, data and information relating thereto is not to be used, disseminated or reproduced in whole or in part without the written consent of TILSLEY & ASSOCIATES, ARCHITECTS, LLC.

Sheet Title: **Captiveaire Shop**
Drawings
Issued: 10/21/2024
Scale: As Noted
Drawn: S.Rogers

EXHAUST FAN INFORMATION - Job#4137855

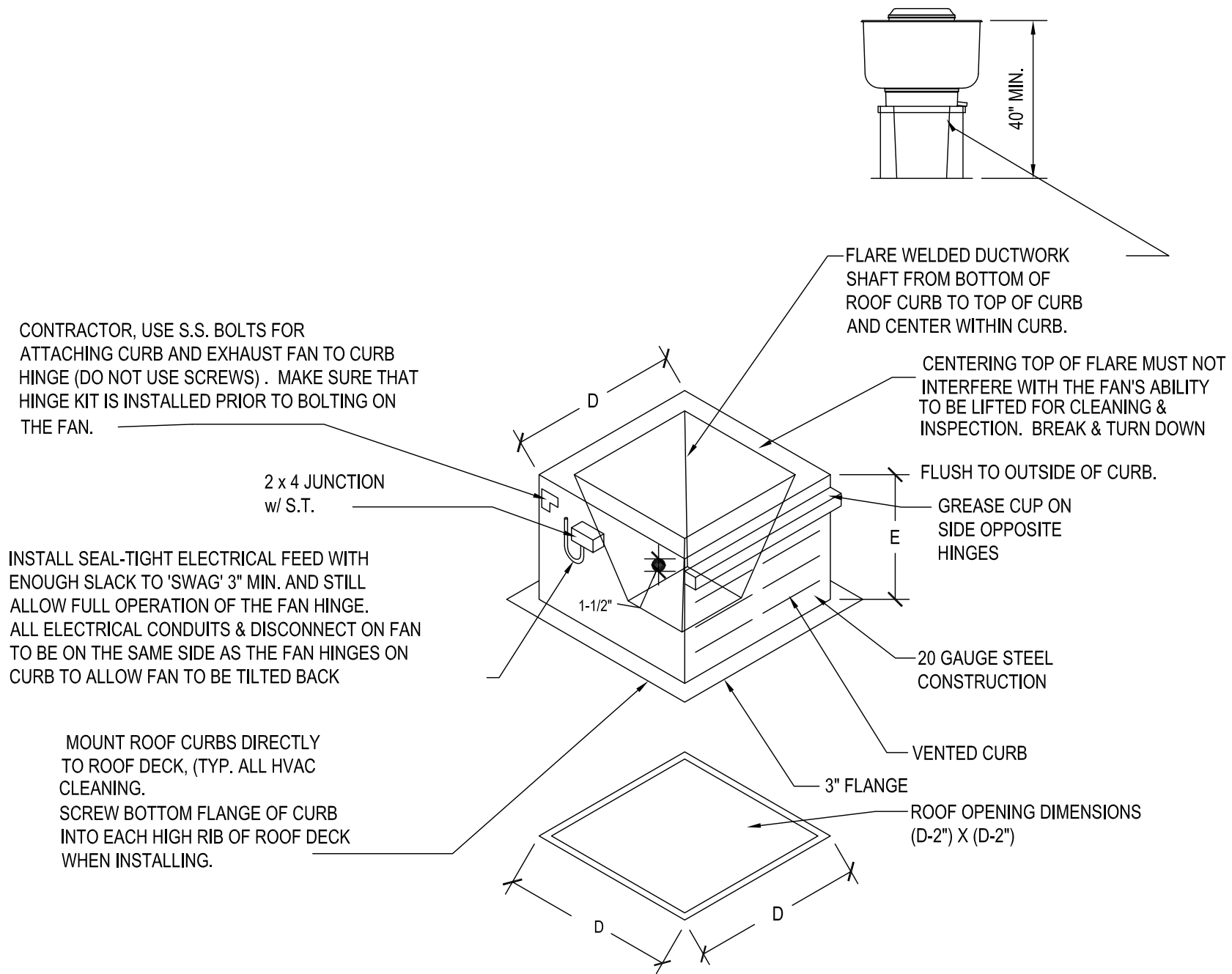
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1 (Grill)	DUB5HFA	1120	1.150	1215	0.750	0.3410	1	115	8.9	354 FPM	89	12.8
2	KEF2 (OVEN)	DU33HFA	600	0.600	1360	0.333	0.2030	1	115	4.3	396 FPM	70	14.1
3	KEF3 (FRY)	DUB5HFA	850	1.150	1144	0.750	0.3250	1	115	8.8	276 FPM	92	14.6

MUA FAN INFORMATION - Job#4137855

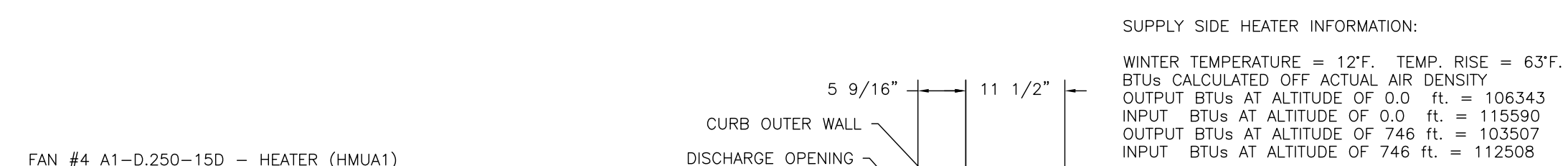
FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCA	MOC	WEIGHT (LBS.)	SONES
4	HMUA1	A1-D.250-15D	5MF-1-MOD	A1-D.250	1000	1630	0.440	1855	1.500	0.9960	3	208	4.4		15A	648	15.6

CURB ASSEMBLIES

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

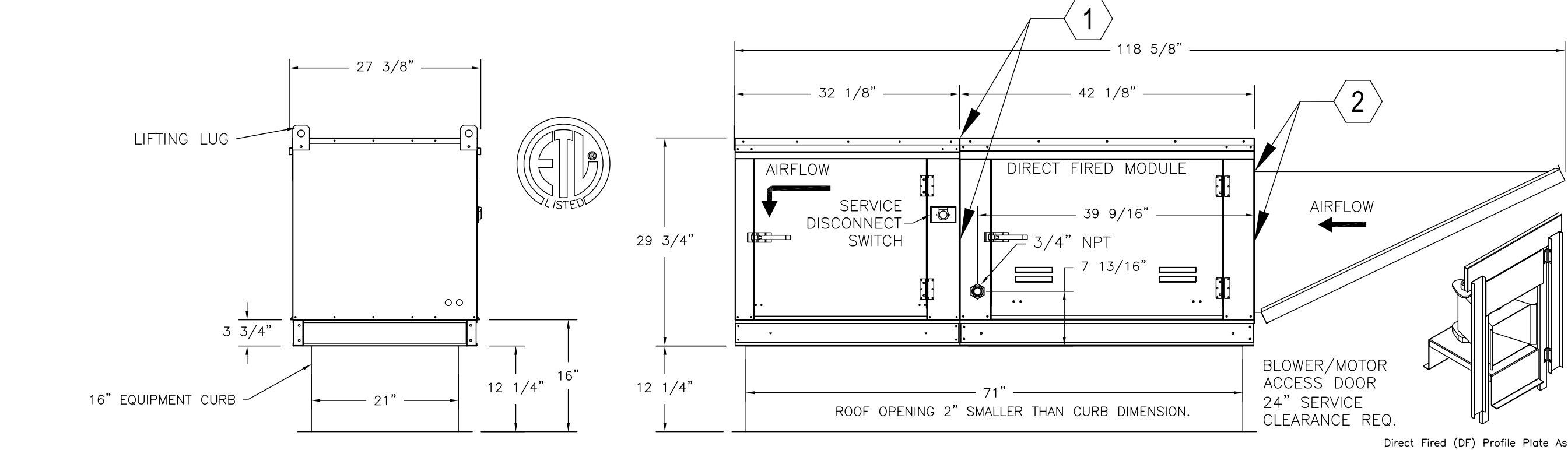


TYPICAL ROOF CURB DETAIL



- FAN #4 A1-D.250-15D - HEATER (HMUA1)**
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" DIRECT DRIVE FAN
 - INTAKE HOOD WITH EZ FILTERS
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 - MOTORIZED BACK DRAFT DAMPER 16" x 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB1205 ACTUATOR INCLUDED
 - LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 - GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 - GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
 - SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 - UNIT MOUNTED VFD FOR USE WITH ECPM03

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

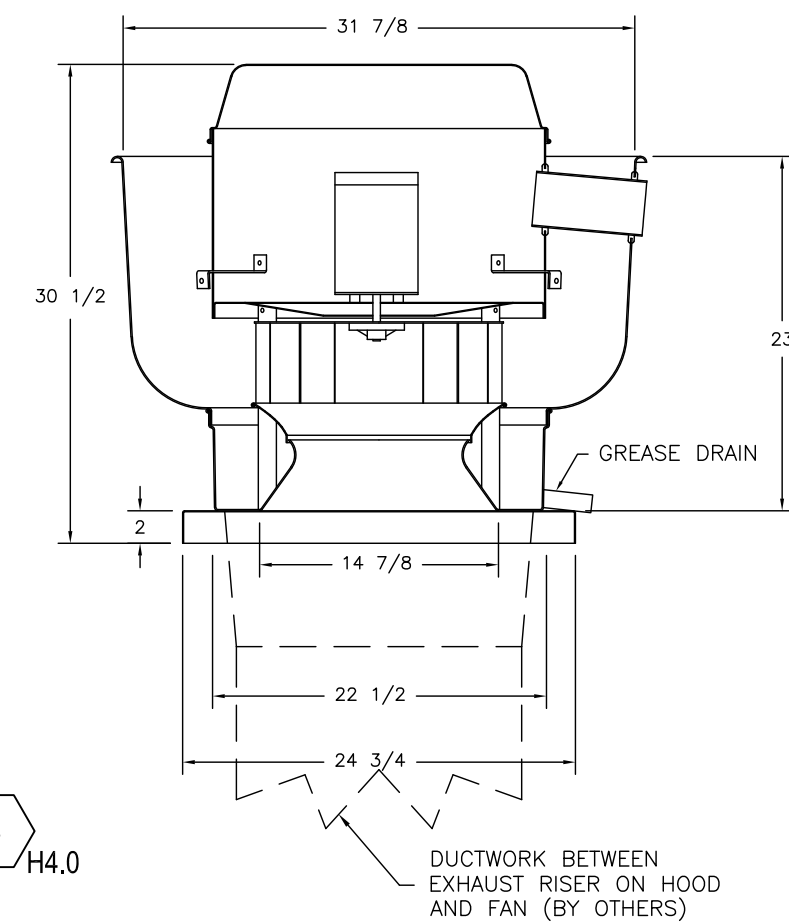


MUA NOTES:

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

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

FAN #1 DUB5HFA - EXHAUST FAN (KEF1)



FEATURES:

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

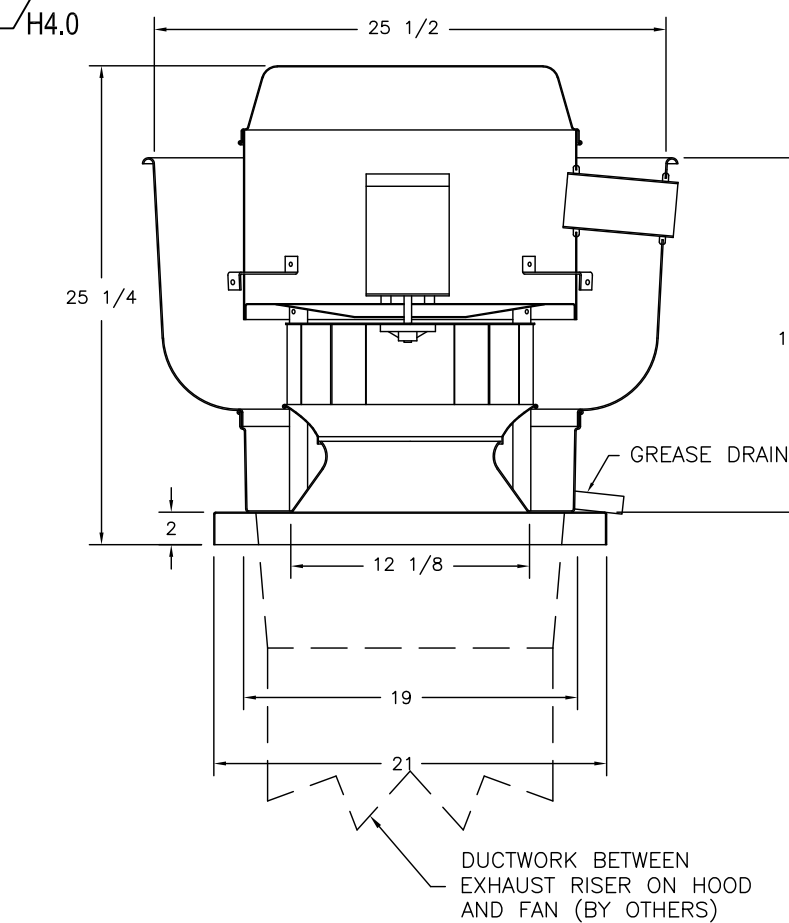
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300F (149C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETEIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

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

FAN #2 DU33HFA - EXHAUST FAN (KEF2)



FEATURES:

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

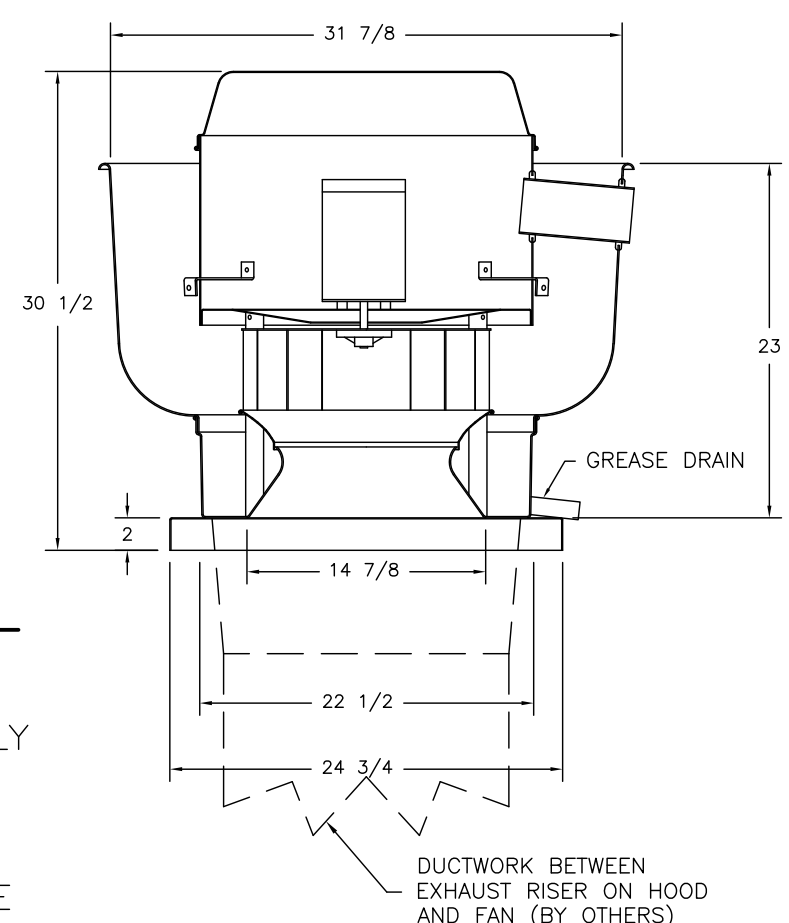
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300F (149C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETEIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

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

FAN #1 DUB5HFA - EXHAUST FAN (KEF1)



FEATURES:

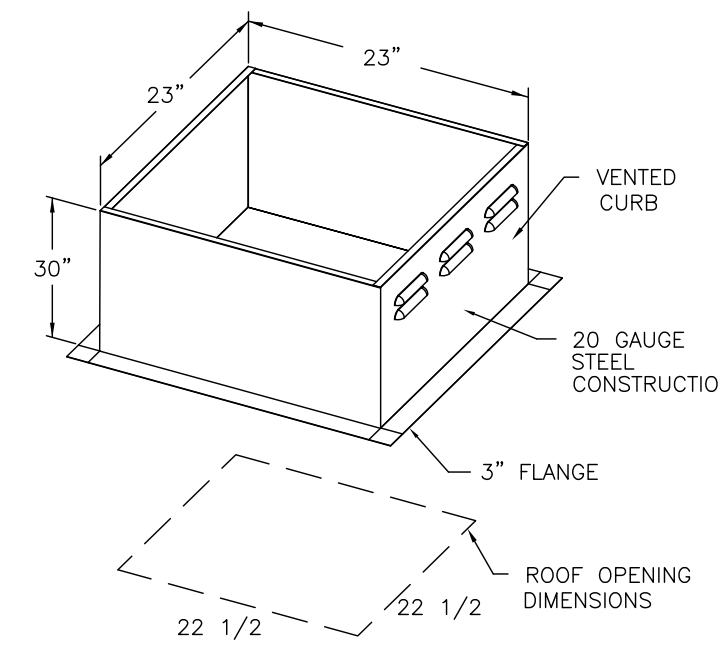
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-5645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300F (149C)
- GREASE CLASSIFICATION TESTING

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

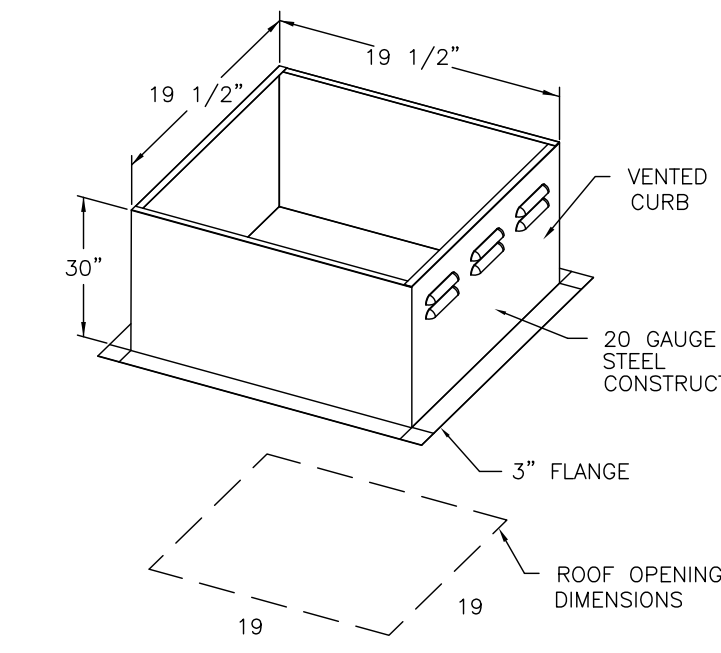
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

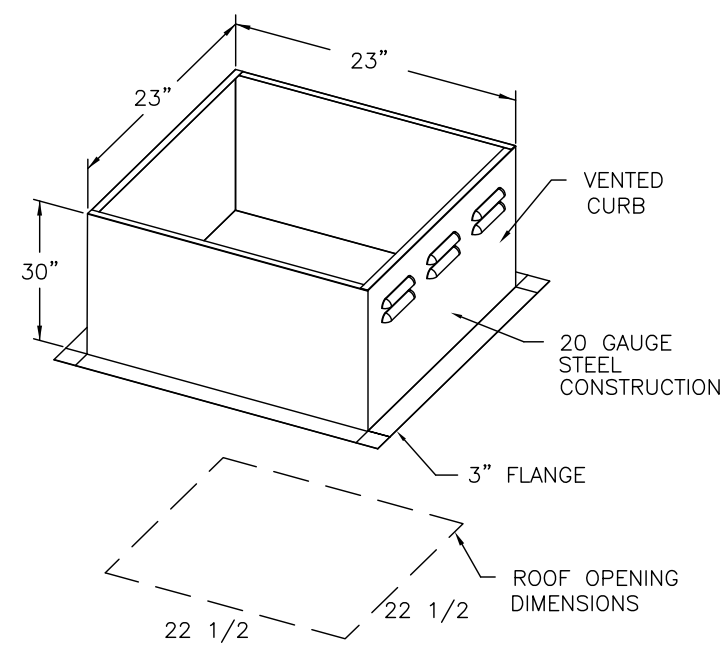
- GREASE BOX.
- EXHAUST FAN HEAT BAFFLE.
- FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE-EXHAUST - PWM SIGNAL FROM ECPM03 PREWIRE (NIDEC MOTOR).



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



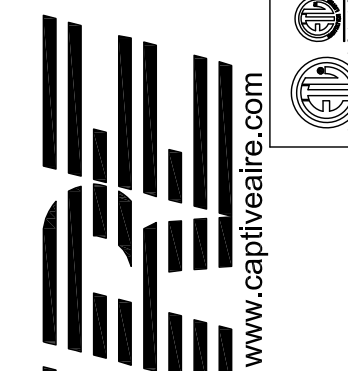
PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



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

REVISIONS

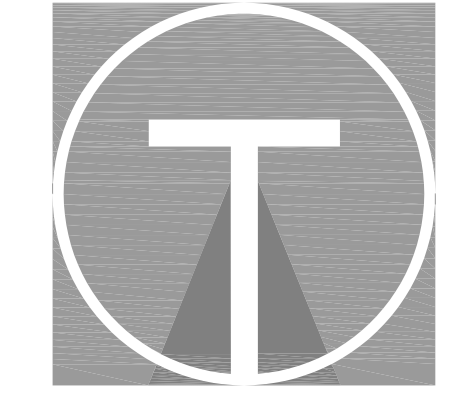
NO.	DESCRIPTION	DATE



CAPTIVE
Penn Station v2Bs
Various Locations

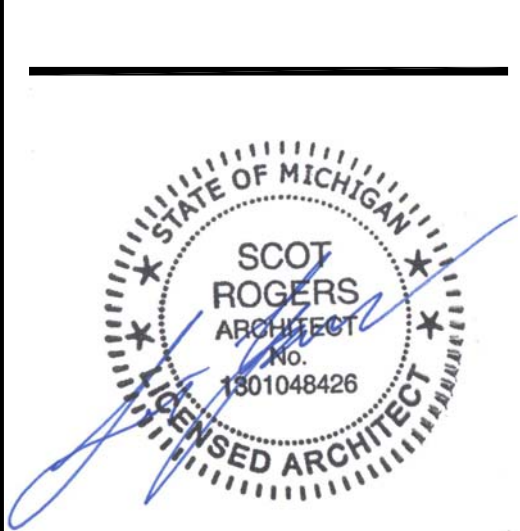
DATE: 7/16/20
DWG.#: 3789035
DRAWN BY: JMH120
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
H3



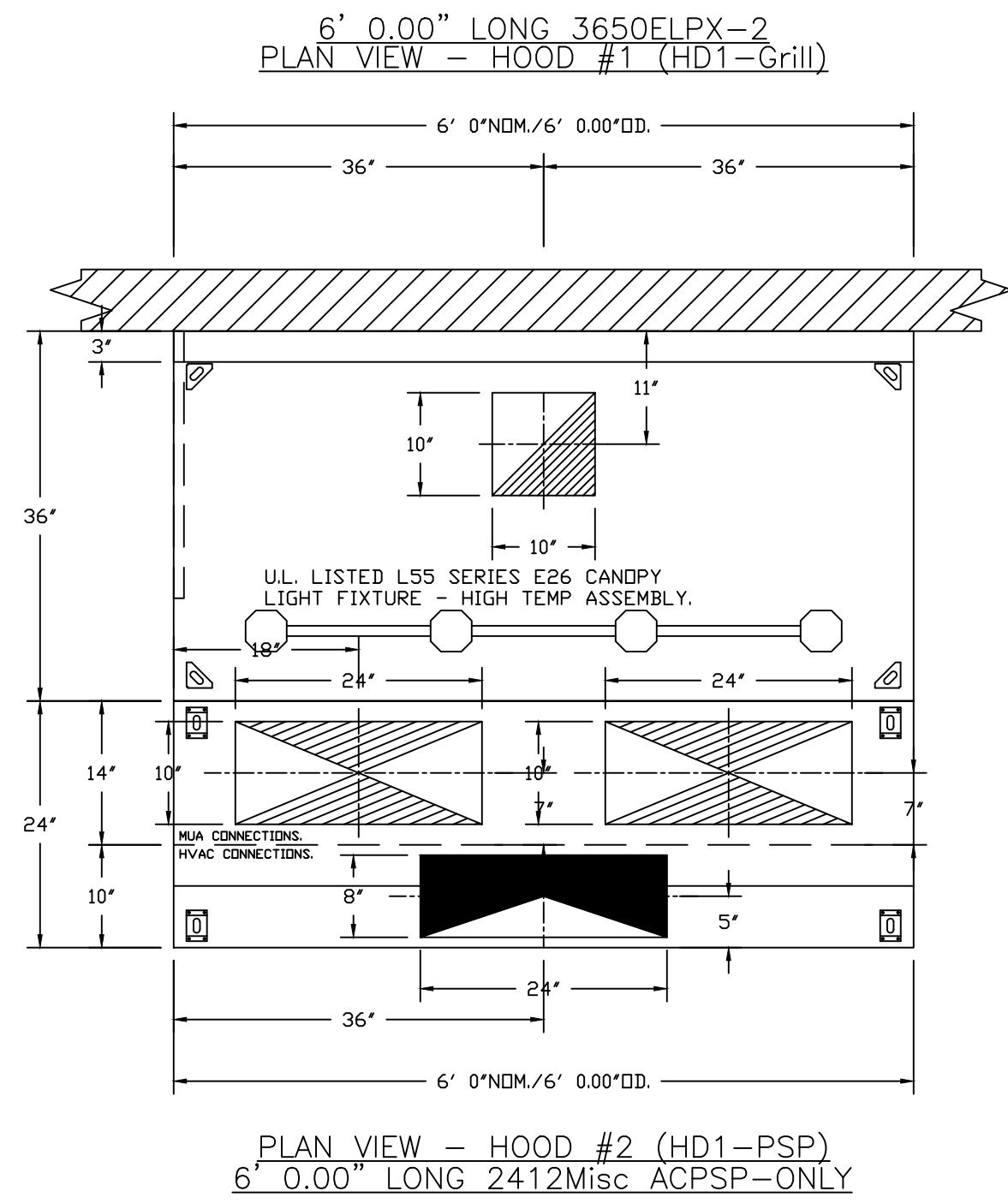
TILSLEY ARCHITECTS
1140 SAINT GREGORY ST. CINCINNATI, OH 45202
TEL 513.651.4300
WWW.TILSLEYARCHITECTS.COM

A New Penn Station Restaurant
5609 Jackson Rd.
Ann Arbor, MI 48103

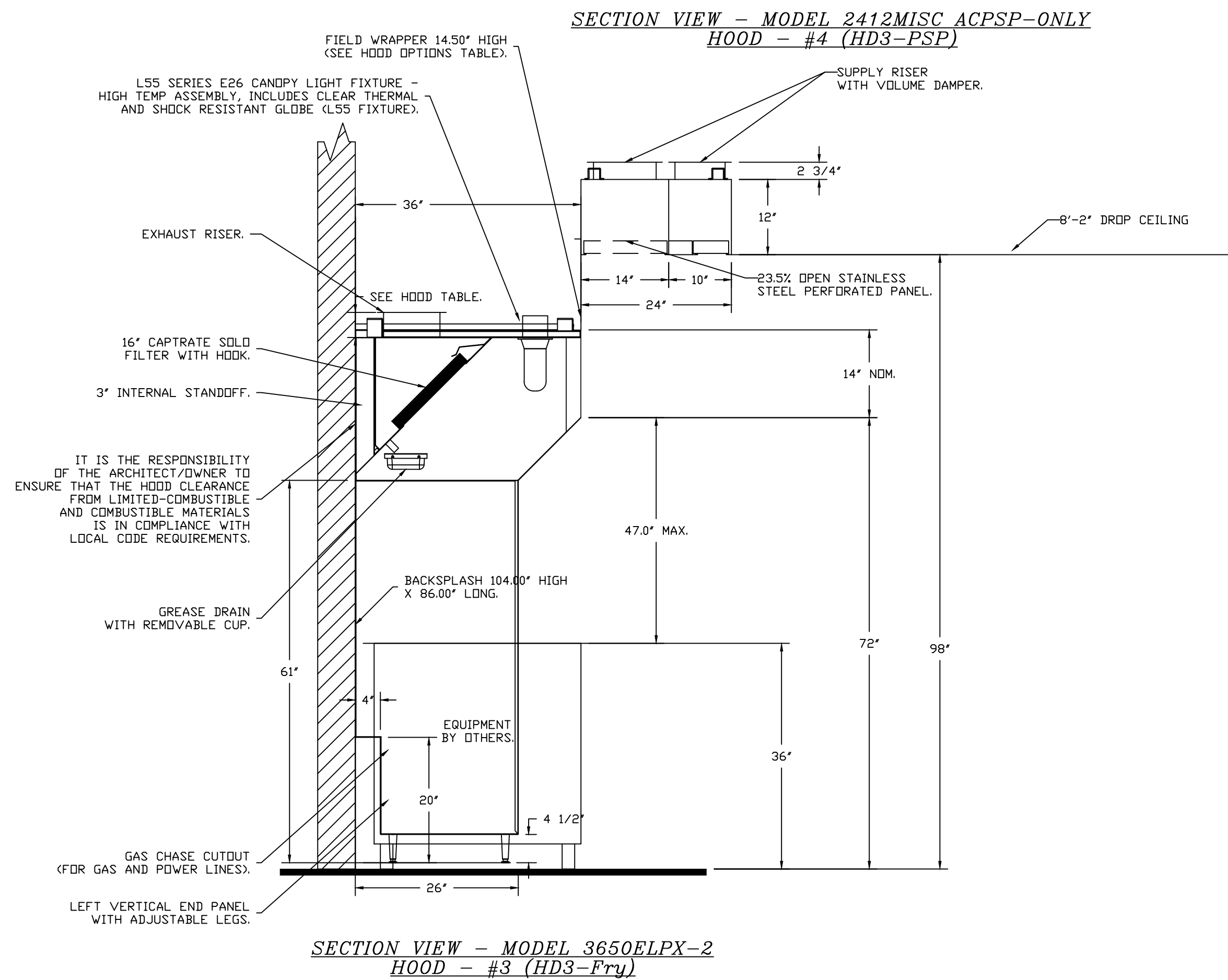
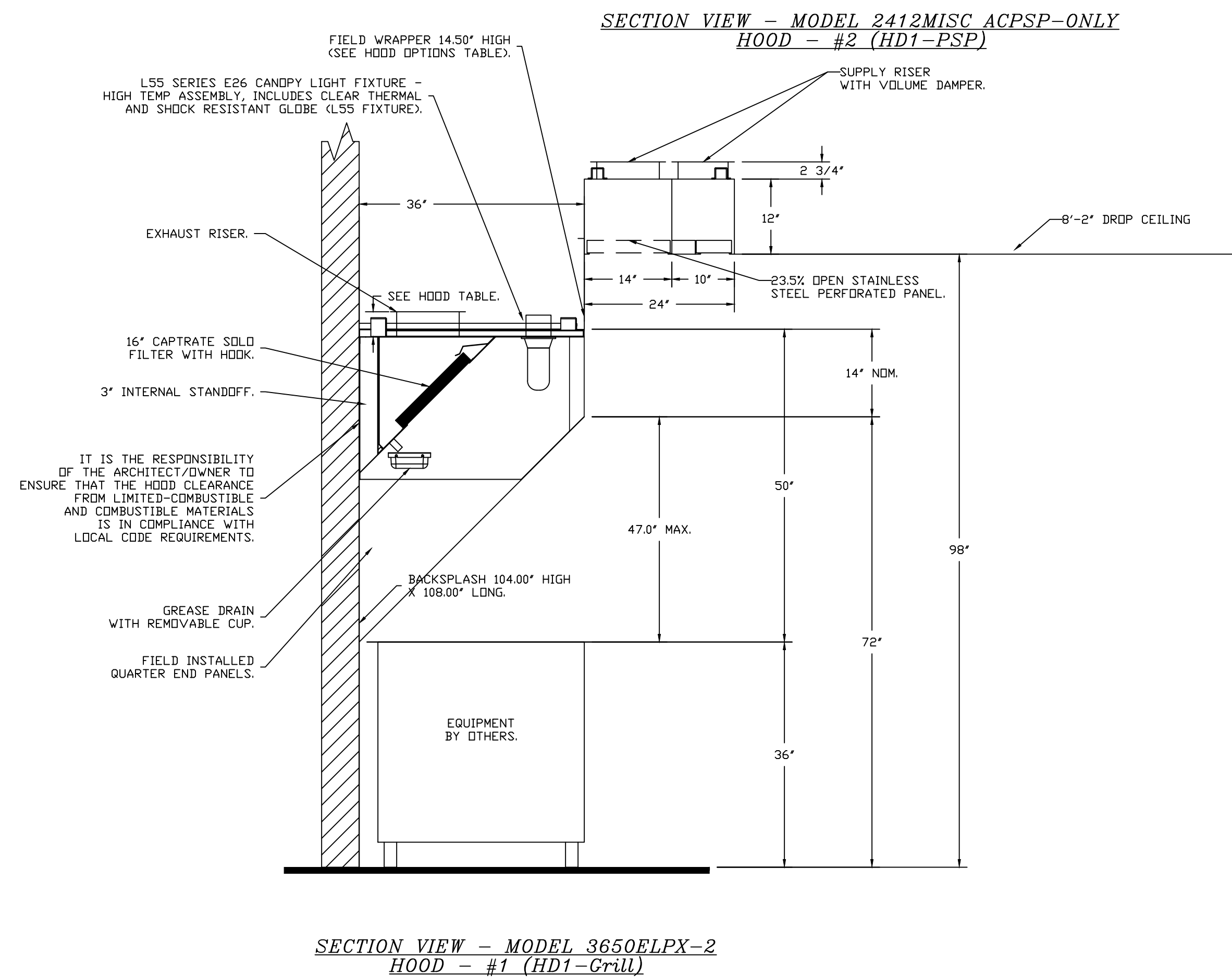
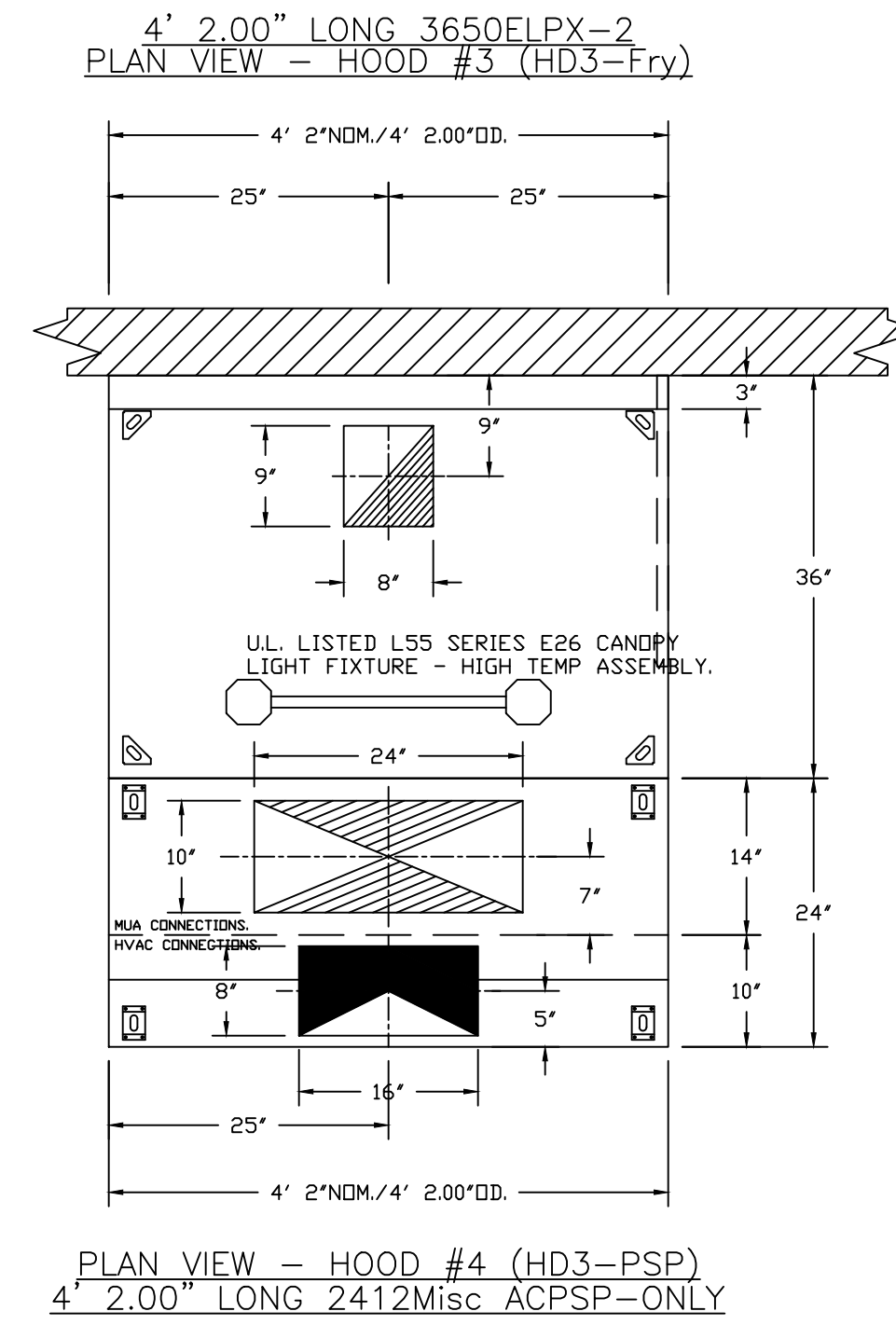


No.	Revision

Sheet Title: **Captiveaire Shop**
Drawings Issued: 10/21/2024
Scale: As Noted
Drawn: S.Rogers
Checked by: SAR Copyright © 2024. All rights reserved. This is a proprietary design of TILSLEY & ASSOCIATES, ARCHITECTS. The design data and information relating thereto is not to be used, disseminated or reproduced in whole or in part without the written consent of TILSLEY AND ASSOCIATES ARCHITECTS, LLC.
24035



NOTE: ELECTRIC GAS VALVE IS 24V & POWER IS WIRED FROM HOOD PANEL.



REVISIONS	
DESCRIPTION	DATE

CAPTIVE

Air Solutions

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

Penn Station V2B-R (Ann Arbor, MI)
5609 Jackson Road,
Ann Arbor, MI, 48103

DATE: 2/24/2025
DWG.#: 7244062
DRAWN BY: BCF
SCALE: N/A
MASTER DRAWING

SHEET NO. 1

RTU (ROOF TOP UNIT)

Forms

NTAB RTU PACKAGE UNIT

INFORMATION ON THIS WILL COME OFF YOUR MECHANICAL SCHEDULE PAGE. TYPICALLY IN CHART/TABLE FORMAT

RTU1 [Grid View](#) [Add Note](#)

Data Capture Complete

Unit Data [Motor Data](#) [Drive Data](#) [Test Data](#)

Design	
MFG	CARRIER
Serial Num	On
Model Num	48FCEM12A3M5
Type	On RTU (VARIES ON TYPE OF UNIT)
Configuration	On VERTICAL /HORIZONTAL
Num OA Filters 1	On
OA Filter Size 1	On
Num Final Filter 1	On
Final Filter Size 1	On
Num Final Filter 2	On
Final Filter Size 2	On

RTU1 [Grid View](#) [Add Note](#)

Data Capture Complete

Unit Data [Motor Data](#) [Drive Data](#) [Test Data](#)

Design	
Motor MFG	On
Horsepower	On MAY NOT BE LISTED
Motor Rpm	On MAY NOT BE LISTED
Phase	On 3
Rated Voltage	On 208
Rated Amperage	On WILL NOT HAVE

RTU1 [Grid View](#) [Add Note](#)

Data Capture Complete

Unit Data [Motor Data](#) [Drive Data](#) [Test Data](#)

Design	
SF CFM	On TOTAL/SUPPLY CFM 4000
SF RPM	On FAN RPM
RA CFM	On RETURN AIR CFM 3500 <small>SF CFM - OA CFM = RA CFM</small>
OA CFM	On OUSTIDE/FRESH AIR CFM 500
RL Voltage	On LEAVE BLANK
RL Amperage	On LEAVE BLANK
SF Rotation	On
SF System SetPt	On
RA Damper Position	On

RTU1 [Grid View](#) [Add Note](#)

Data Capture Complete

Unit Data [Motor Data](#) [Drive Data](#) [Test Data](#) [Per](#)

Design	
MA Plenum SP	On
Fan Suction SP	On
Fan Discharge SP	On ENSURE ALWAYS DECIMAL AND HAVE " AT THE END
Total ESP	On 0.80"
Fan Total SP	On WILL NOT HAVE

EXHAUST FAN (EF)

NTAB EXHAUST FAN BELT OR

NTAB EXHUAST FAN DD

EF1 [Add Note](#)

Data Capture Complete

Unit Data	Motor Data	Drive Data
Design		
MFG	CAPTIVEAIRE	
Model Num	DU180HFA	
Serial Num	<input type="button" value="On"/>	
Type	<input type="button" value="On"/> UPBLAST /DOWNBLAST/UTILITY/INLINE/CEILING *SEE FANS-HOODS SHEET*	
Configuration	<input type="button" value="On"/> VERTICAL /HORIZONTAL	

INFORMATION ON THIS WILL COME OFF EF/HOOD SUBMITTAL SHEETS. IF THOSE ARE NOT AVAILABLE USE THE MECHANICAL SCHEDULE PAGE TYPICALLY IN CHART/TABLE FORMAT

EF1 [Add Note](#)

Data Capture Complete

Unit Data	Motor Data	Drive Data
Design		
Motor MFG	<input type="button" value="On"/>	
Frame	<input type="button" value="On"/>	
Horsepower	<input type="button" value="On"/> 2 /MAY NOT HAVE	
Motor Rpm	<input type="button" value="On"/> MAY NOT HAVE	
Phase	<input type="button" value="On"/> 3	
Voltage (rated)	<input type="button" value="On"/> 208	
Amperage (rated)	<input type="button" value="On"/>	
Service Factor	<input type="button" value="On"/>	

EF1 [Add Note](#)

Data Capture Complete

Unit Data	Motor Data	Drive Data
Design		
CFM	<input type="button" value="On"/>	2550
Fan RPM	<input type="button" value="On"/>	
Fan Rotation	<input type="button" value="On"/>	
Motor RPM	<input type="button" value="On"/>	
RL Voltage	<input type="button" value="On"/>	LEAVE BLANK
RL Amperage	<input type="button" value="On"/>	LEAVE BLANK
Suction ESP	<input type="button" value="On"/>	
Discharge ESP	<input type="button" value="On"/>	
Total ESP	<input type="button" value="On"/>	1.20"

ENSURE ALWAYS DECIMAL AND HAVE " AT THE END

MUA (MAKE-UP AIR UNIT)

Change Form:

MAU NTAB DD

INFORMATION ON THIS WILL COME OFF EF/HOOD SUBMITTAL SHEETS. IF THOSE ARE NOT AVAILABLE USE THE MECHANICAL SCHEDULE PAGE TYPICALLY IN CHART/TABLE FORMAT

MAU1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Motor Data	Drive Data	Gas Heat
Design			
MFG	CAPTIVEAIRE		
Model Num	A1-D.250-15D		
Serial Num	<input type="button" value="On"/>		
Type	<input type="button" value="On"/>	MUA	
Configuration	<input type="button" value="On"/>	VERTICAL/HORIZONTAL	

MAU1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Motor Data	Drive Data	Gas Heat
Design			
Motor MFG	<input type="button" value="On"/>		
Frame	<input type="button" value="On"/>		
Horsepower	<input type="button" value="On"/>	1/MAY NOT HAVE	
Motor Rpm	<input type="button" value="On"/>	MAY NOT HAVE	
Phase	<input type="button" value="On"/>	3	
Voltage (rated)	<input type="button" value="On"/>	208	
Amperage (rated)	<input type="button" value="On"/>		
Service Factor	<input type="button" value="On"/>		

MAU1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Motor Data	Drive Data	Gas Heat
Design			
Heater Operates (y/n)	<input type="button" value="On"/>		
Flame Status (pass/fail)	<input type="button" value="On"/>		
Inlet Air Temp SetPt	<input type="button" value="On"/>	55	
Discharge Air Temp SetPt	<input type="button" value="On"/>	60	
Air Flow Switch SP Actual	<input type="button" value="On"/>		

ALWAYS THESE TWO VALUES

MAU1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Motor Data	Drive Data	Gas Heat	Test Data
Design				Actual
CFM	<input type="button" value="On"/>	1300		1302
SF RPM	<input type="button" value="On"/>			1171
Motor RPM	<input type="button" value="On"/>			1171
SF System SetPt	<input type="button" value="On"/>			40.4Hz
RL Voltage	<input type="button" value="On"/>	LEAVE BLANK		98@VFD
RL Amperage	<input type="button" value="On"/>	LEAVE BLANK		1.7@VFD
Total ESP	<input type="button" value="Off"/>			
Fan Discharge SP	<input type="button" value="On"/>			ATM

TYPE 1 HOOD W/ PSP

orms

NTAB TYPE I W/PSP

HD1 Add Note

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Test Data Exhaust	Cooking Equipment
Design		
MFG	CAPTIVEAIRE	
Model Num	5424 ND-2-ACPSP-F	
Job / Serial Num	<input type="checkbox"/> On	
Type	<input type="checkbox"/> On	TYPE I CANOPY/LOW PROXIMITY
Hood length	<input type="checkbox"/> On	153"
Hood Width	<input type="checkbox"/> On	54"
Supply Plenum Type	<input type="checkbox"/> On	ALWAYS INCHES NEVER FEET
Supply Plenum Width	<input type="checkbox"/> On	9"
Supply Plenum Length	<input type="checkbox"/> On	165"

ONLY IF THE HOOD IS AN *AC-PSP* HOOD WILL YOU SUBTRACT 10 FROM THE PSP WIDTH LISTED ON THE SCHEDULE

HD1 Add Note

Data Capture Completed by Dylan Crisman on 03/03/2025

Unit Data	Test Data Exhaust	Cooking Equipment
Design		
Total Area (PSP LENGTH X PSP WIDTH) / 144	<input type="checkbox"/> On	10.31
Kv factor (Vel) BASED ON PSP WIDTH *FANS-HOODS SHEET	<input type="checkbox"/> On	0.81"
Num of Readings	<input type="checkbox"/> On	
Reading1 FPM	<input type="checkbox"/> On	
Reading2 FPM	<input type="checkbox"/> On	
Reading3 FPM	<input type="checkbox"/> On	

HD1 Add Note

Data Capture Completed by Dylan Crisman on 03/03/2025 **DONT FORGET CFM AT THE BOTTOM**

Unit Data	Test Data Exhaust	Cooking Equipment
Design		
Filter Type	<input type="checkbox"/> On	CAPTRATE SOLO FILTER
Filter Size 1	<input type="checkbox"/> On	16X16
Filter Size 2	<input type="checkbox"/> Off	
Filter Qty 1	<input type="checkbox"/> On	9
Filter Qty 2	<input type="checkbox"/> Off	X
Filter AK factor size 1 DETERMINED BY FILTER SIZE *FANS-HOODS*	<input type="checkbox"/> On	1.62
Filters AK factor size 2	<input type="checkbox"/> Off	=
Filter Total AK Area FILTER QTY X FILTER AK FACTOR SIZE =	<input type="checkbox"/> On	14.58

ALWAYS USE I FOR TYPE 1

INFORMATION ON THIS WILL COME OFF EF/HOOD SUBMITTAL SHEETS. IF THOSE ARE NOT AVAILABLE USE THE MECHANICAL SCHEDULE PAGE TYPICALLY IN CHART/TABLE FORMAT

DONT FORGET CFM AT THE BOTTOM

TYPE 1 HOOD NO PSP

Forms

NTAB TYPE I NO PSP

HD1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/04/2025

Unit Data

Test Data Exhaust

Design	
MFG	ACCUREX
Model Num	XGEP-D.33S
Job / Serial Num	<input type="checkbox"/> On
Type	<input type="checkbox"/> On TYPE I - LOW PROXIMITY
Hood length	<input type="checkbox"/> On 64"
Hood Width	<input type="checkbox"/> On 36"

HD1 [Add Note](#)

Data Capture Completed by Dylan Crisman on 03/04/2025

Unit Data









































































































Test Data Exhaust

Design	
Filter Type	<input type="checkbox"/> On GREASE GRABBER
Filter Size 1	<input type="checkbox"/> On 16"X16"
Filter Size 2	<input type="checkbox"/> Off
Filter Qty 1	<input type="checkbox"/> On 4
Filter Qty 2	<input type="checkbox"/> Off X
Filter AK factor size 1	DETERMINED BY FILTER SIZE *FANS-HOODS* <input type="checkbox"/> On 1.53
Filters AK factor size 2	<input type="checkbox"/> Off =
Filter Total AK Area	FILTER QTY X FILTER AK FACTOR SIZE = <input type="checkbox"/> On 6.12
Filter1 FPM	<input type="checkbox"/> On

STANDARD RESTUARANT ASSET LIST (THIS IS A CHIPOTLE)

Assets Inventory

HVAC EQUIPMENT

   EF1 (CAPTIVEAIRE - DU180HFA) ✓ 
   EF2 (CAPTIVEAIRE - DR12HFA) ✓ 
   EGRD1 (NA - NA) ✓ 
   EGRD2 (NA - NA) ✓ 
   HD1 (CAPTIVEAIRE - 5424 ND-2-ACPSP-F) ✓ 
   MAU1 (CAPTIVEAIRE - A1-D.250-15D) ✓ 
   RTU1 (CARRIER - 48FCFN09D3M5A6W4F0) ✓ 
   SGRD1 (NA - NA) ✓ 
   SGRD2 (NA - NA) ✓ 
   SGRD3 (NA - NA) ✓ 
   SGRD4 (NA - NA) ✓ 
   SGRD5 (NA - NA) ✓ 
   SGRD6 (NA - NA) ✓ 
   SGRD7 (NA - NA) ✓ 
   SGRD8 (NA - NA) ✓ 
   SGRD9 (NA - NA) ✓ 
   SGRD10 (NA - NA) ✓ 
   RTU2 (CARRIER - 48FCN12D3M5A6W4F0) ✓ 
   SGRD1 (NA - NA) ✓ 
   SGRD2 (NA - NA) ✓ 
   SGRD3 (NA - NA) ✓ 
   SGRD4 (NA - NA) ✓ 
   SGRD5 (NA - NA) ✓ 
   SGRD6 (NA - NA) ✓ 
   SGRD7 (NA - NA) ✓ 
   SGRD8 (NA - NA) ✓ 

HVAC PLAN
1/4"=1'-0"
NORTH

