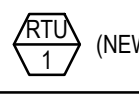
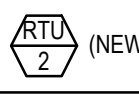
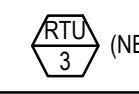


PACKAGED ROOF TOP UNIT SCHEDULE				(LENNOX MODELS TO BE SPECIFIED) (LO NoX in California)
UNIT SYMBOL	 (NEW)	 (NEW)	 (NEW)	
LOCATION	ROOF	ROOF	ROOF	
BLOWER	SA CFM (TONS)/ OA CFM	2,400 (6-TON)/ 380	4,000 (10-TON)/ 750	4,000 (10-TON)/ 750
	TSP (IN W.G.)	0.86"	1.24"	1.24"
COOLING	TOTAL (BTUHR)	72,400	121,200	121,200
	SENSIBLE (BTUHR)	57,200	94,300	94,300
	AMBIENT (F)	95	100	100
	COIL ENTERING	67 WB/80 DB	67 WB/81 DB	67 WB/81 DB
HEATING (NATURAL GAS BTUHR)		STAGE (1) 81,000 STAGE (2) 108,000	STAGE (1) 144,000 STAGE (2) 180,000	STAGE (1) 144,000 STAGE (2) 180,000
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ
	COMPRESSOR (RLA)	19.6	(2) 27.0	(2) 27.0
	CONDENSER MOTOR (FLA)	(1) 2.4	(1) 4.8	(1) 4.8
	EVAPORATOR MOTOR (FLA)	4.6	10.6	10.6
	MIN. CIRCUIT AMPACITY	32, HACR = 45	46, HACR = 50	46, HACR = 50
PANDA NATIONAL ACCOUNT. NO SUBSTITUTION ALLOWED. FOR PRICING AND ORDERS CONTACT LENNOX NA @ 800-367-6285. FOR INSTALLATION AND START-UP QUESTIONS CONTACT LENNOX NA TECH SUPPORT @ 800-367-6285 EXT. #1 FOR CUSTOMER SERVICE EXT. #2 FOR NAT ACC TECH SUPPORT EMAIL: NATS@LENNOX.COM SUBJECT LINE: PANDA EXPRESS STORE #* CITY, STATE		BY LENNOX MODEL KGB074H4T DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 858 LBS APPROX. IEER=16.0, EER=12	BY LENNOX MODEL KGA120H4M DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,337 LBS APPROX. IEER=13.8, EER=12.0	BY LENNOX MODEL KGA120H4M DOWN DISCHARGE COMPLETE WITH 14" ROOF MOUNT CURB, ELECTRONIC PROGRAMMABLE THERMOSTAT, SINGLE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. OPER. WT. : 1,337 LBS APPROX. IEER=13.8, EER=12.0
ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTACT LENNOX REPRESENTATIVE ABOVE. - THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES - DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED NOTE: 1. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB. 2. FACTORY COATED EVAPORATOR COIL ON ALL UNITS 3. FACTORY COATED CONDENSER COIL ONLY WITHIN 5 MILES OF SALTWATER COASTLINE 4. SINGLE ENTHALPY ECONOMIZER, HIGH PERFORMANCE, LOW-LEAK DAMPERS, W/ GRAVITY EXHAUST 5. TITLE 24 COMPLIANT 6. RETURN AIR SMOKE DETECTOR (FIELD INSTALLED) 7. FACTORY HINGED ACCESS DOORS 8. MERV 8 FILTERED FILTERS				

EXHAUST FAN SCHEDULE				
FAN NO.				
LOCATION	ROOF	ROOF	ROOF	
AREA SERVED	KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS	
FAN DUTY	AIR EXHAUST	AIR EXHAUST	AIR EXHAUST	
FAN TYPE	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	
FAN ARRANGEMENT	UPBLAST	UPBLAST	DOWNBLAST	
MIN. WHEEL DIAMETER	-	-	-	
PERFORMANCE	C.F.M.	3,400	2,900	450
	E.S.P.	1.588"	1.178"	0.25"
	B.H.P.	1.9700	1.2400	0.0810
	FAN R.P.M.	1399	1199	1220
MOTOR	MOTOR H.P.	3.0	2.0	0.25
	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
	MOTOR R.P.M.	1725	1725	-
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
ACCESSORIES	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. ROOF CURB 2. BACKDRAFT DAMPER	
MANUFACTURER	CAPTIVEAIRE MODEL: DU180HFA WT. 222 LBS	CAPTIVEAIRE MODEL: DU180HFA WT. 222 LBS	CAPTIVEAIRE MODEL: DR12HFA WT. 108 LBS	

NOTES:

- KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS.
- FOR WIRING DIAGRAM SEE 5/M-501

HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: LENNOX COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.




FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):

COOLING OCCUPIED: 75°F.
COOLING UNOCCUPIED: 85°F.
HEATING OCCUPIED: 68°F.
HEATING UNOCCUPIED: 50°F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

AIR CURTAIN SCHEDULE

EQUIP.	MFR/MODEL	DESCRIPTION
	MARS STD242-1U-OB	UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS
	MARS STD236-1U-OB	UNHEATED AIR CURTAIN (SERVICE DOOR). 115/1/60 WEIGHT 60 LBS. PROVIDED BY PANDA EXPRESS
	QUICK SERV CF-25	AIR CURTAIN (WINDOW NON-HEATED). 120/1/60, 20 AMP WEIGHT 30 LBS REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR HEATED OR NON-HEATED UNIT. PROVIDED BY GC.

NOTES:

INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

MA-1 CONTROL SETTINGS

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS :

COOLING : 85°F.
HEATING : 55°F.


MAKE-UP AIR UNIT SCHEDULE

MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE A3-D.500-24D-MPU	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 321896 BTU OUTPUT: 296114 BTU	DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION	5,040	0.75"	10 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT WITH (2) 24ABB360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-403 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION.

DIFFUSER & GRILLE SCHEDULE


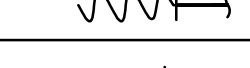
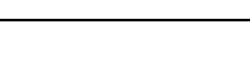
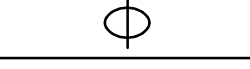



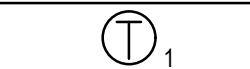


DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS
A	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	INSULATION BLANKET FOR BACKPAN. CONTRACTOR FURNISHED ROUND NECK ADAPTER
B	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	20" x 20"	SURFACE	< 30	WITH 20X20 SURFACE FRAME. REQUIRES A 20.5"X20.5" CEILING OPENING. INSULATION BLANKET, D-100 RADIAL DAMPER
C	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME. REQUIRES A 12.5"X12.5" CEILING OPENING. INSULATION BLANKET, D100 RADIAL DAMPER
D	TITUS	PAR-3	PERFORATED RETURN	26 WHITE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
E	TITUS	PAR-3	PERFORATED EXHAUST	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME. REQUIRES A 12.5"X12.5" CEILING OPENING. D100 RADIAL DAMPER
F	TITUS	PAR-3	PERFORATED RETURN	26 PANDA BRONZE	22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT
H	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 PANDA BRONZE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	WITH INSULATION BLANKET. BALANCE USING MANUAL VOLUME DAMPER AT BRANCH DUCT
J	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	24" x 24"	LAY-IN T-BAR	< 30	AG95 OBD, INSULATION BLANKET FOR BACKPAN. CONTRACTOR FURNISHED ROUND NECK ADAPTER
K	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME. REQUIRES A 12.5"X12.5" CEILING OPENING. INSULATION BLANKET, D100 RADIAL DAMPER
L	TITUS	PCS-3	PERFORATED ADJUSTABLE CORE	26 WHITE	PER PLAN	12" x 12"	SURFACE	< 30	WITH12X12 SURFACE FRAME. REQUIRES A 12.5"X12.5" CEILING OPENING

NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES.
HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC. PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL: ronc@thermairsystems.com

AIR BALANCE SCHEDULE				
ITEM		SUPPLY AIR	RETURN AIR	MAKE-UP AIR
MAU1		0	0	+5,040
EF-1, EF-2		0	0	0
RTU-1		+2,400	-2,020	380
RTU-2, RTU-3		+4,000, +4000	-3,250, -3,250	2@750 EA
EF-3		-	-	-
TOTAL		+10,400	-8,520	+6,920
BUILDING PRESSURE = +170 CFM				
BALANCE TOLERANCES AS FOLLOWS: KITCHEN EXHAUST HOODS: 0% TO +10% OUTDOOR AIR: 0% TO +10% SUPPLY & RETURN DIFFUSERS: ±10% TOILET EXHAUST: ±10% BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS. KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER				

OSA VENTILATION CALCULATION-IMC					
AREA TYPE	TOTAL AREA (FT ²)	OCCUPANCY DENSITY (PEOPLE/FT. ²)	TOTAL OCCUPANTS	OSA REQ'D PER SQ.FT. (CFM)	OSA REQ'D PER PERSON (CFM)
HALLWAYS	41	-	-	0.06	-
STORAGE	14	-	-	0.15	-
KITCHEN (EXHAUST)	925	-	-	0.7	-
DINING ROOM	823	100/1,000	83	0.18	7.5
CALCULATION PER IMC TABLE 403.3.1.1 VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.				TOTAL OSA REQUIRED (CFM)	841
				TOTAL OSA PROVIDED (CFM)	2000

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	DN	DOWN
		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)
		FLEXIBLE DUCT
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	MIN	MINIMUM
	OSA	OUTSIDE AIR
		ROUND RIGID DUCTWORK
	TSP	TOTAL STATIC PRESSURE
		CONSTRUCTION NOTES
		MECHANICAL EQUIPMENT DESIGNATION
		SMOKE DETECTOR
	1	THERMOSTAT / UNIT
	1	REMOTE SENSOR / UNIT

MECHANICAL SPECIFICATIONS

- WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
- CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- COORDINATE WORK WITH OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
- DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INTL ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525, UNLESS OTHERWISE NOTED. DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
- INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
- SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
- GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE FABRICATED BY WELDED JOINT CONSTRUCTION OF 16 GAUGE WELDED STEEL OR 18 GAUGE STAINLESS STEEL. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. ALL ELBOWS SHALL BE LONG RADIUS. GREASE DUCT SHALL BE INSTALLED EITHER IN A RATED ENCLOSURE PROVIDED BY THE GENERAL CONTRACTOR OR WRAPPED WITH FIREMASTER GREASE DUCT WRAP.
- DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS. EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIMP/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F. FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
- FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
- PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
- ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
- AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
- KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
- TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMs, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.



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REVISIONS:

	OWNER REVISION	01-07-22
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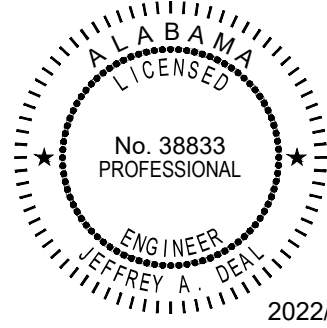
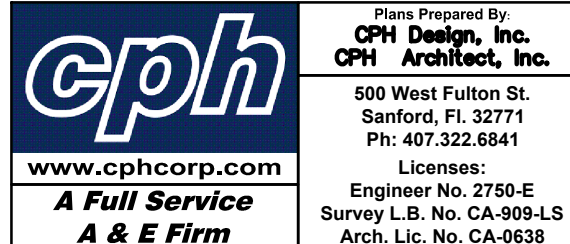
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1	CHECK SET	07-19-21
2	PERMIT SET	09-17-21
3	BID SET	11-08-21
4	BID SET REISSUE	01-14-22

DRAWN BY:

PANDA PROJECT #: S8-22-D8433

ARCH PROJECT #: P7363



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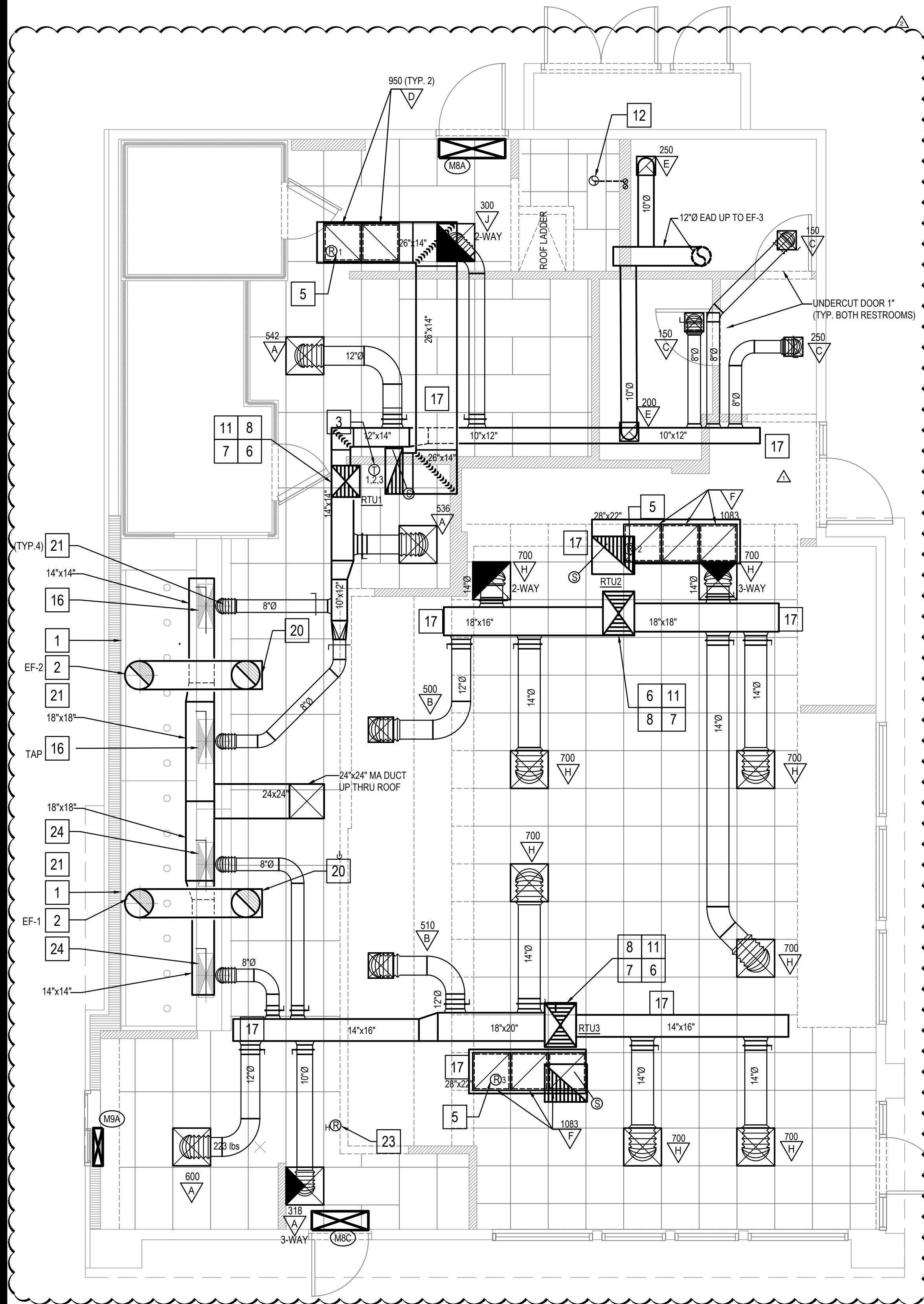
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101 STADIUM WAY
MADISON, AL 35758

M-000

MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

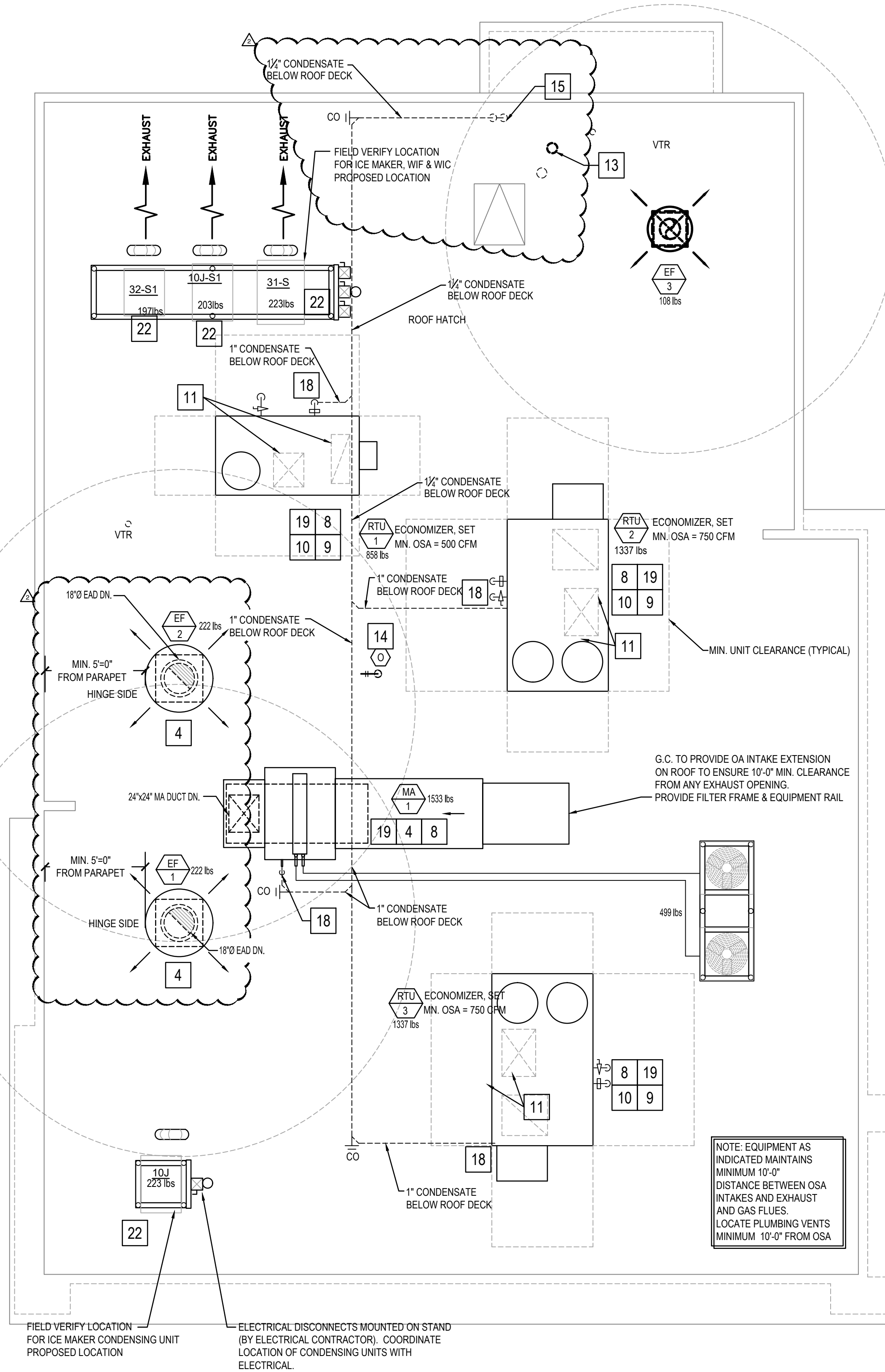
TRUE WARM & WELCOME 2300 R5

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HVAC FLOOR PLAN 2

Scale: 1/4"=1'-0" M-100



HVAC ROOF PLAN 1

Scale: 1/4"=1'-0" M-100

MECHANICAL KEY NOTES:

1. INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
2. PROVIDE AND INSTALL MANUFACTURED CAPTIVEAIRE 18" GREASE EXHAUST DUCT. ROUTE ON TOP OF MAKE UP AIR DUCT. FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN. CONNECT TO EXHAUST HOOD COLLAR. FIELD VERIFY. SEAL DUCT TO THE ROOF CURB WITH FIRE CAULKING. SEE HOOD DETAIL. DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS ON SHEETS M-400 TO M-410.
3. MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
4. INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
6. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 608, OR AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
7. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT. ROUTE DUCT THRU ROOF CURB AND TRUSS.
8. FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
9. PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.
10. FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
11. FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
12. PVC COMBINATION VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
13. WATER HEATER CONCENTRIC VENT TERMINATION. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
14. ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
15. ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN WALL. SLOPE 1/4" PER FOOT. STUB-OUT AND ELBOW DOWN OVER MOP SINK. TERMINATE WITH MINIMUM 2" AIR GAP.
16. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM. 1,254 CFM
17. PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.
18. CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 16/P-500.
19. PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
20. GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-000.
21. 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 236 CFM.
22. PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS, FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108). UNITS SECURED TO RACK BY G.C.
23. ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
24. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM. 1,254 CFM

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.

NOTE: EQUIPMENT AS INDICATED MAINTAINS MINIMUM 10'-0" DISTANCE BETWEEN OSA INTAKES AND EXHAUST AND GAS FLUES. LOCATE PLUMBING VENTS MINIMUM 10'-0" FROM OSA



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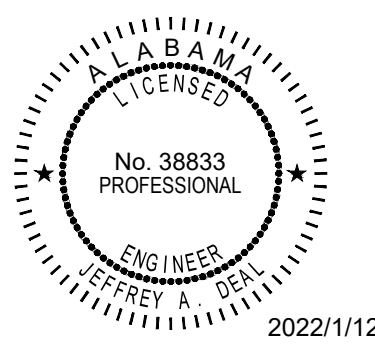
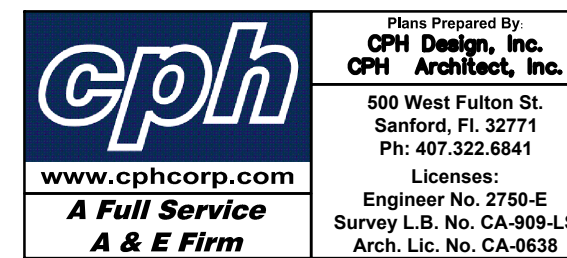
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ARCH PROJECT #: P7363



PANDA EXPRESS

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M-100

H.V.A.C. FLOOR PLAN &
H.V.A.C. ROOF PLAN

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PATENT NUMBERS

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

HOOD INFORMATION - JOB#5246152

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	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			SP	END TO END	RDW
1		4824 ND-2	CAPTIVEAIRE	13' 0"	600 DEG	I	HEAVY	262	3400			4'	18"	3400	1924	-1.202'	0	430 SS WHERE EXPOSED	LEFT	ALONE
2		4824 ND-2	CAPTIVEAIRE	11' 2"	600 DEG	I	HEAVY	260	2900			4'	18"	2900	1641	-0.897'	0	430 SS WHERE EXPOSED	RIGHT	ALONE
3		226 ACPSP-QONLY	CAPTIVEAIRE	11' 9"	300 DEG	I	N/A	0	0								2520	430 SS WHERE EXPOSED	ALONE	ALONE
4		226 ACPSP-QONLY	CAPTIVEAIRE	14' 4"	300 DEG	I	N/A	0	0								2520	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	TYPE	SIZE	MODEL #	QUANTITY	SWITCHES		
1		CAPTRATE SOLO FILTER	9	20"	16'	85% SEE FILTER SPEC	7	L55 SERIES E26	NO	WALL MNT	12"x54"x24"	ANSUL R-102	3.0/3.0/3.0	DCV-2111	1 LIGHT 1 FAN		YES	537 LBS
2		CAPTRATE SOLO FILTER	8	20"	16'	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	RIGHT	20"x48"x24"						YES	548 LBS
3							0										NO	162 LBS
4							0										NO	185 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF (FINISHED) 3' WIDE 48" LONG. RISER SENSOR INSTALL 6IN PLEN.
2		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
3	Front	141"	10"	6"		AC			8"	236	0.135"
						AC			8"	236	0.135"
	Back	141"	12"	6"		MUA	10"	28"		1260	0.530"
						MUA	10"	28"		1260	0.530"
4	Front	172"	10"	6"		AC			8"	236	0.122"
						AC			8"	236	0.122"
	Back	172"	12"	6"		MUA	10"	28"		1254	0.497"
						MUA	10"	28"		1254	0.497"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)				WEIGHT
			TYPE	SIZE	MODEL #	QUANTITY	
1	WALL MNT	12"x54"x24"	ANSUL R-102	3.0/3.0/3.0	DCV-2111	1 LIGHT 1 FAN	305.00 LBS

FIRE SYSTEM INFORMATION - JOB#5246152

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0/3.0	8	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	2.000	CAPTIVEAIRE SYSTEMS

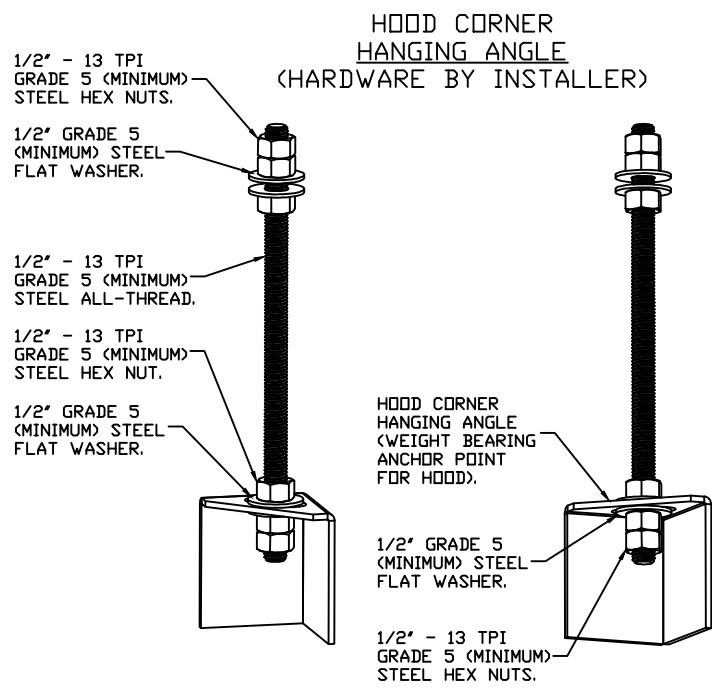
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DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

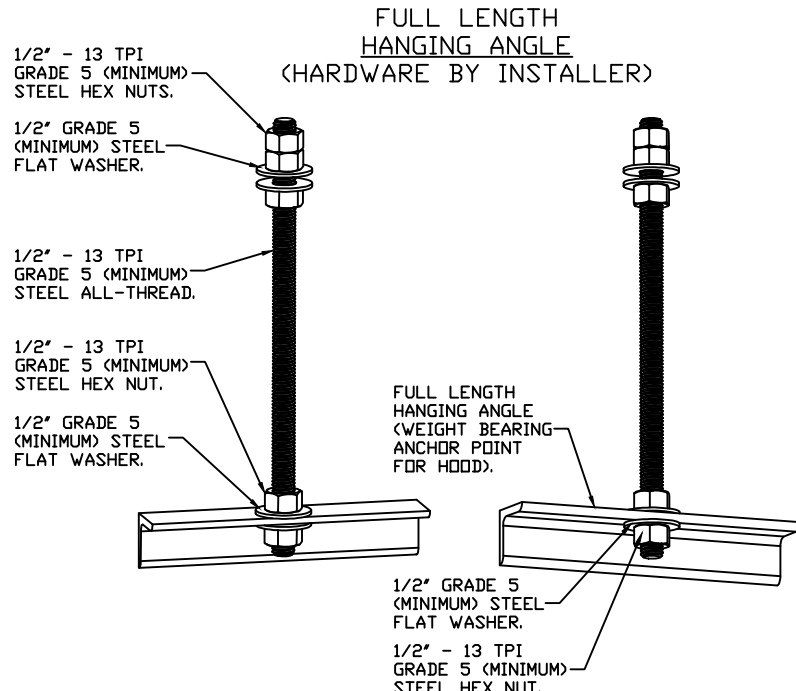
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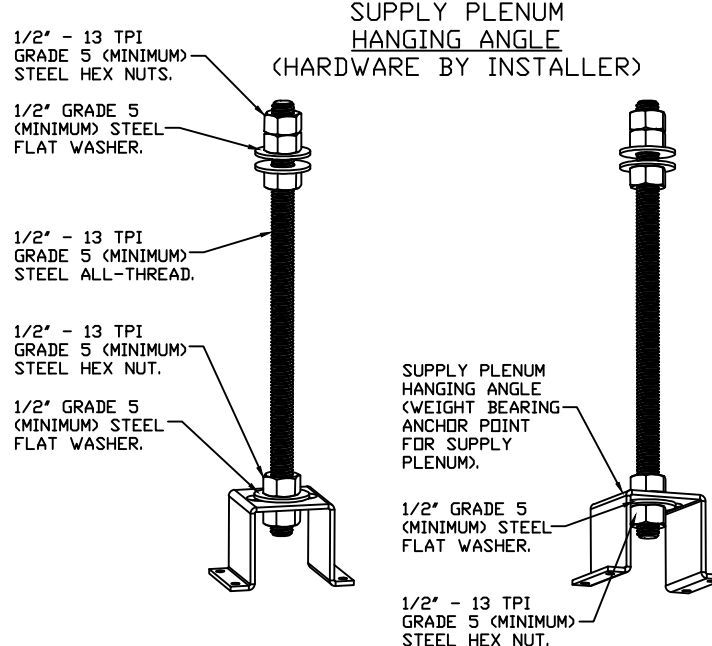
ASSEMBLY INSTRUCTIONS

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



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REVISIONS

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Southern California Office

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DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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

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CPI Architect, Inc.

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PROFESSIONAL

ENGINEER
JEFFREY A. DEAL

2022/1/12

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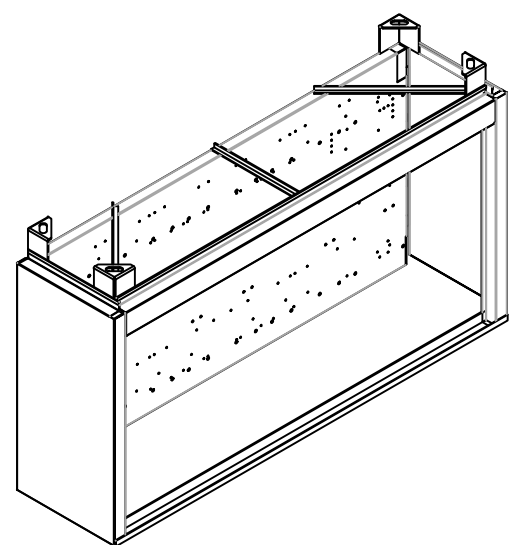
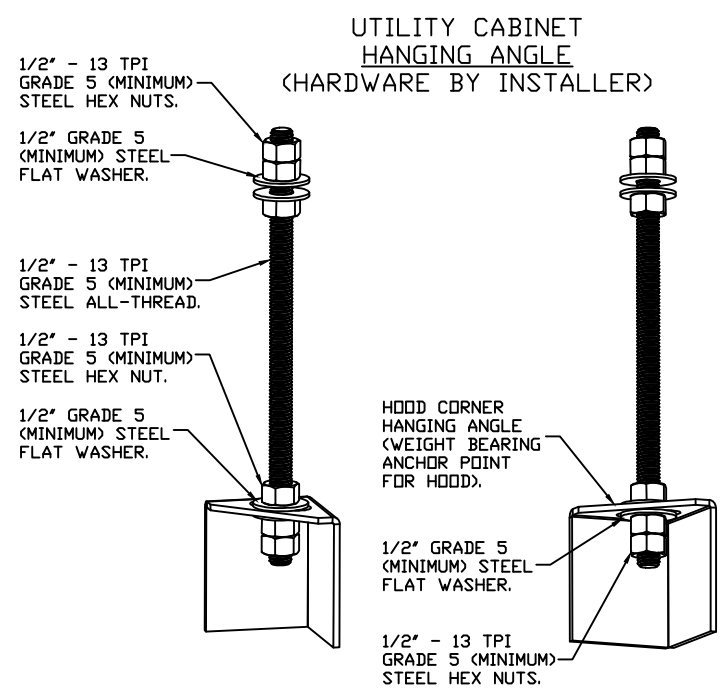
HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R5

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WALL-MOUNT UTILITY CABINET
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DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELDW FOR PRICING

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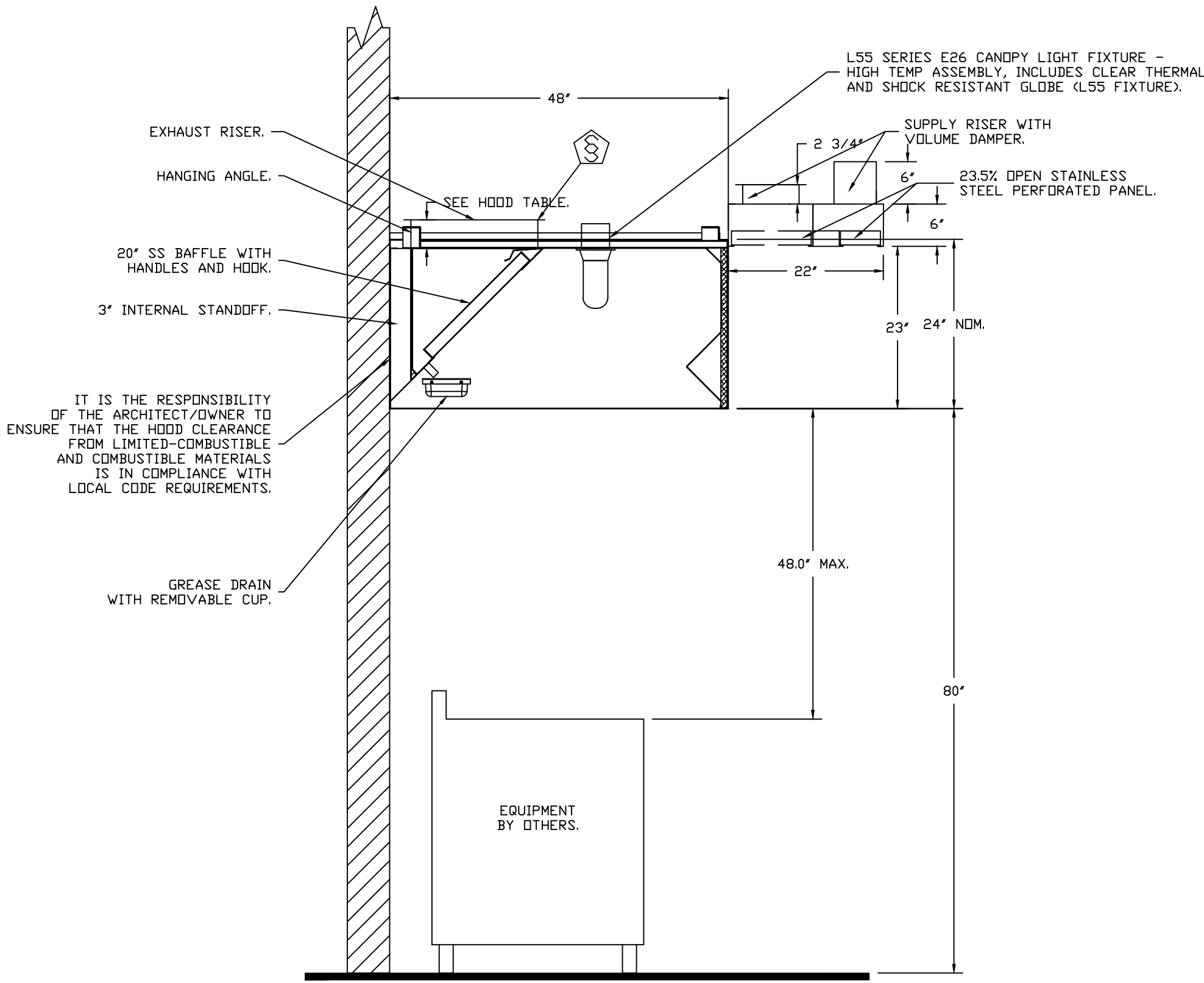
PLAN VIEW - HOOD #1
13' 0.00" LONG 4824ND-2
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

PLAN VIEW - HOOD #3
11' 9.00" LONG 226MISC ACPSP-ONLY

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# 102900319PRT-001



SECTION VIEW - MODEL 4824ND-2-ACPSP-F
HOOD - #1

REVISIONS

DESCRIPTION	DATE



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DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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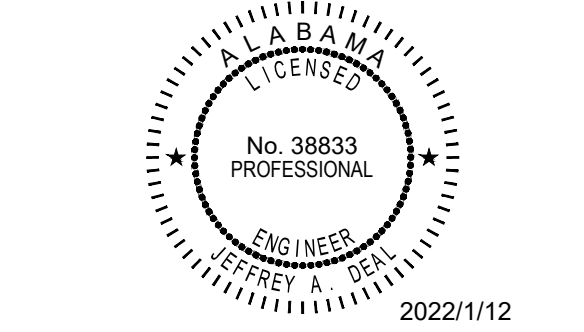


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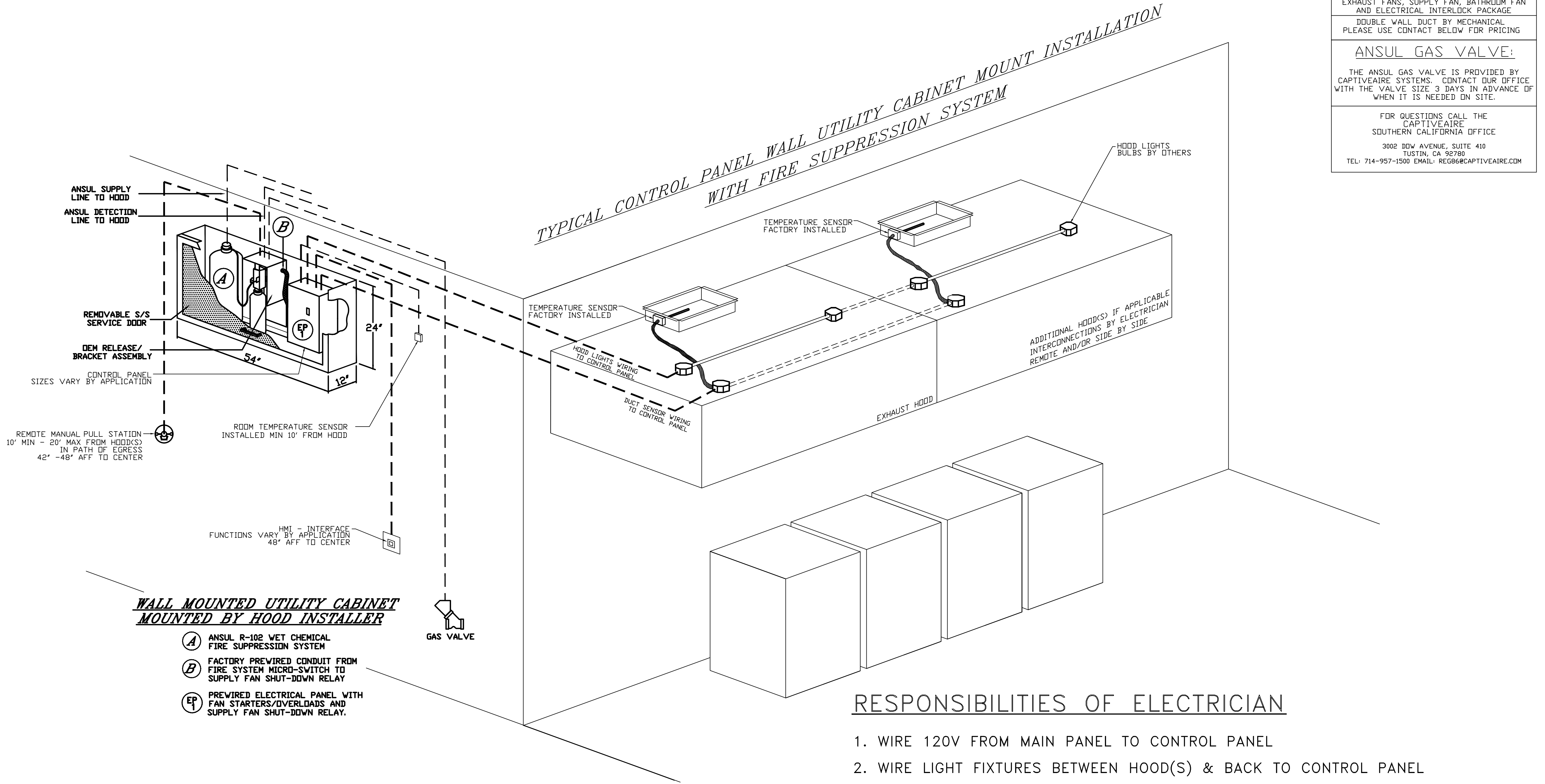
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HOOD DETAIL PLAN

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TERMINAL BLOCK WIRING DETAILS CAN BE FOUND ON ELECTRICAL WIRING DIAGRAMS

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DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 3

RESPONSIBILITIES OF ELECTRICIAN

1. WIRE 120V FROM MAIN PANEL TO CONTROL PANEL
2. WIRE LIGHT FIXTURES BETWEEN HOOD(S) & BACK TO CONTROL PANEL
3. WIRE TEMPERATURE SENSOR(S) FROM EXHAUST COLLARS TO CONTROL PANEL
4. MOUNT & WIRE ROOM SENSOR TO CONTROL PANEL
5. WIRE FAN POWER FROM MAIN PANEL THROUGH CONTROL PANEL TO FAN(S)
6. WIRE SHUNT COIL TO CONTROL PANEL
7. WIRE GAS VALVE (IF APPLICABLE) TO CONTROL PANEL (120V FROM CONTROL PANEL)

ADDITIONAL RESPONSIBILITIES IF APPLICABLE

1. IF MULTIPLE FIRE SYSTEMS ON SINGLE CONTROL PANEL, THE FOLLOWING MUST OCCUR
 - A. ANSUL AUTOMAN MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL
 - B. ANSUL CATRIDGE MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL

RESPONSIBILITIES OF ALARM CONTRACTOR

1. WIRE ANSUL ALARM MICROSWITCH TO BUILDING ALARM PANEL



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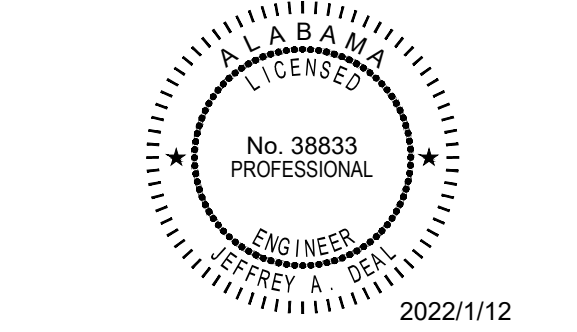
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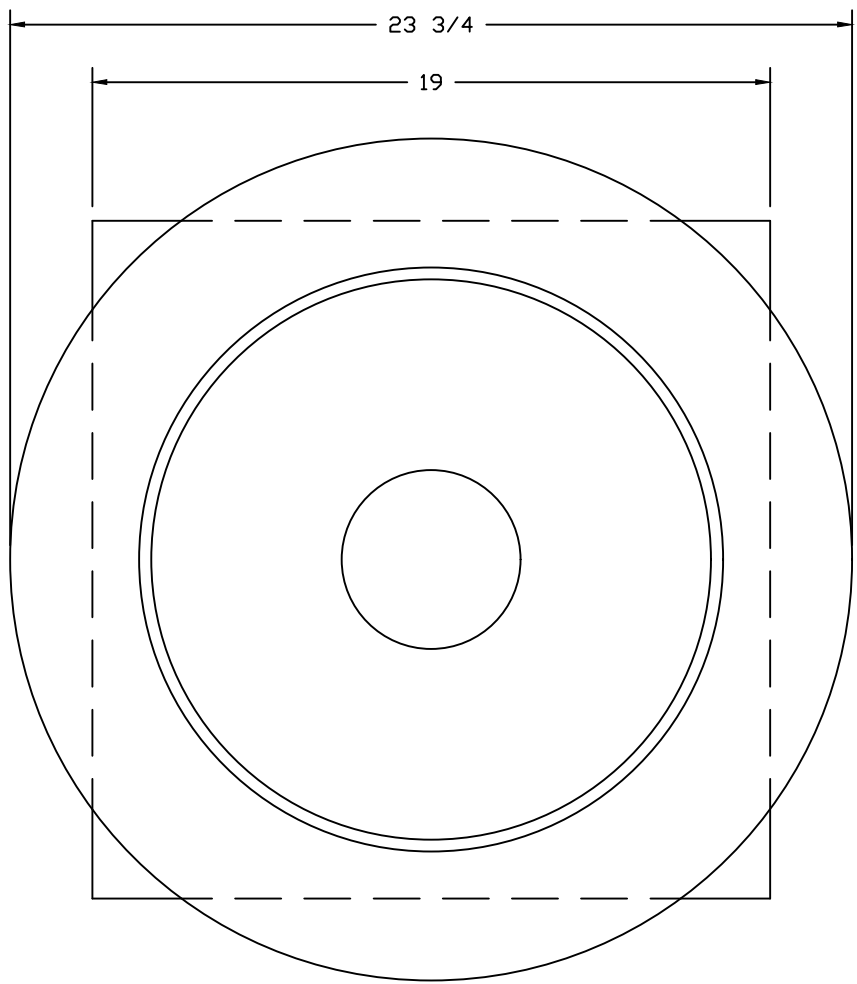
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M-402

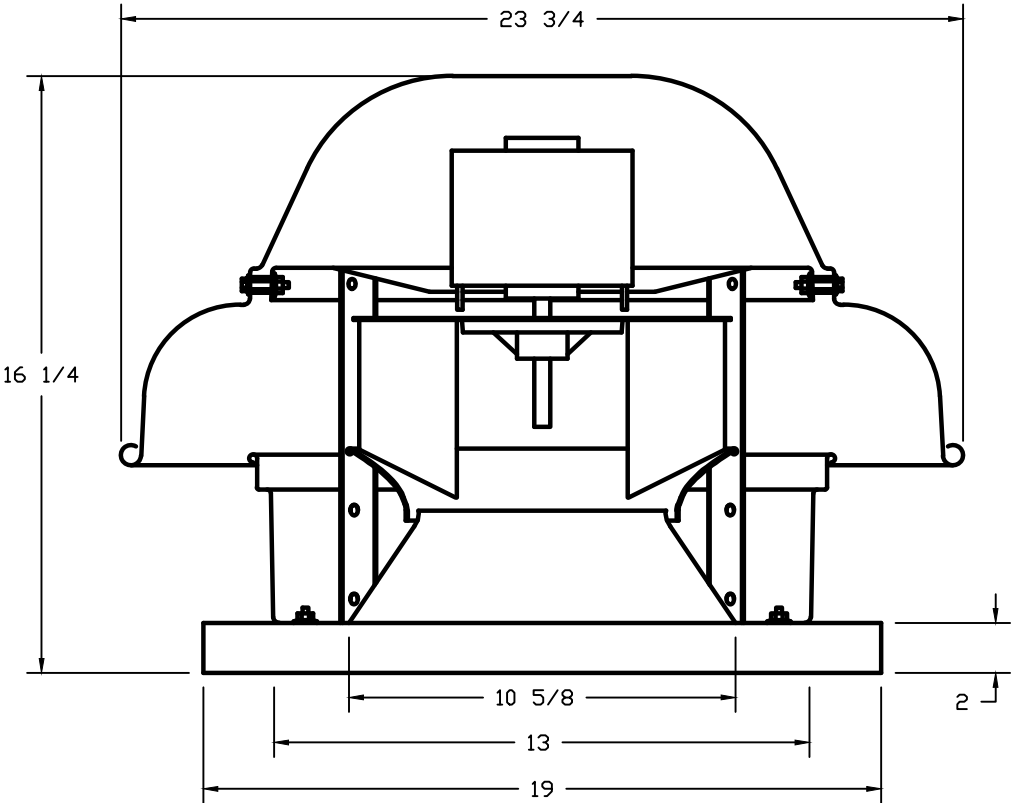
HOOD DETAIL PLAN

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FAN #3 DR12HFA - EXHAUST FAN



TOP VIEW

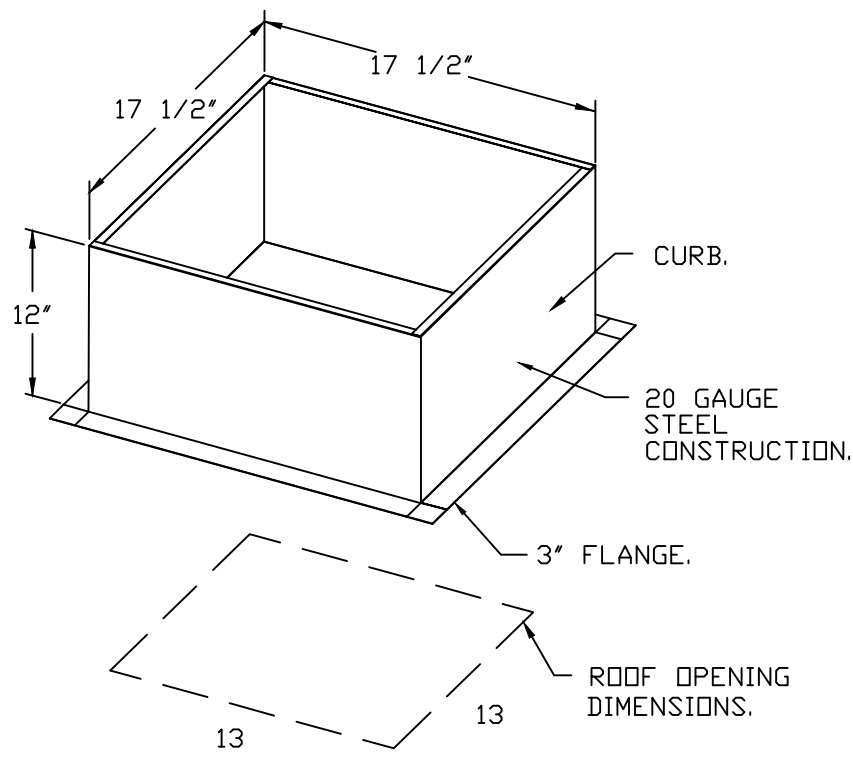


FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

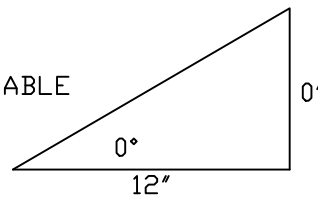
OPTIONS

ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION. 1 12-BDD DAMPER. 2 YEAR PARTS WARRANTY.

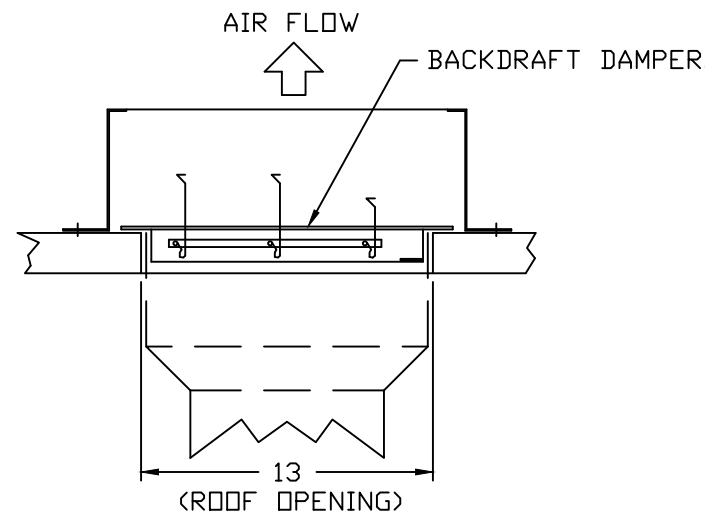


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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



BACKDRAFT DAMPER INSTALLATION



NOTE: UNLESS OTHERWISE STATED, PANDA RESTAURANT GROUP SHALL PROVIDE ALL EQUIPMENT ON THE FOLLOWING CAPTIVEAIRE SHEETS, INCLUDING: HOODS, FIRE SYTEM, EXHAUST FANS, SUPPLY FAN, BATHROOM FAN AND ELECTRICAL INTERLOCK PACKAGE

DOUBLE WALL DUCT BY MECHANICAL PLEASE USE CONTACT BELOW FOR PRICING

ANSUL GAS VALVE:

THE ANSUL GAS VALVE IS PROVIDED BY CAPTIVEAIRE SYSTEMS. CONTACT OUR OFFICE WITH THE VALVE SIZE 3 DAYS IN ADVANCE OF WHEN IT IS NEEDED ON SITE.

FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CALIFORNIA OFFICE

3002 DDW AVENUE, SUITE 410
TUSTIN, CA 92780
TEL: 714-957-1500 EMAIL: REG66@CAPTIVEAIRE.COM

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Panda Express - Madison AL (D8433) - rev1

Zierdt Road & Stadium Blvd,
Madison, AL, 35758

DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO. 5

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
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PANDA PROJECT #: S8-22-D8433
ARCH PROJECT #: P7363

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Plans Prepared By:
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Licenses:
Engineer No. 2760-E
Survey L.B. No. CA-9094-LB
Arch. Lic. No. CA-0638

PANDA EXPRESS

TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, AL 35758

Δ

M-404

HOOD DETAIL PLAN

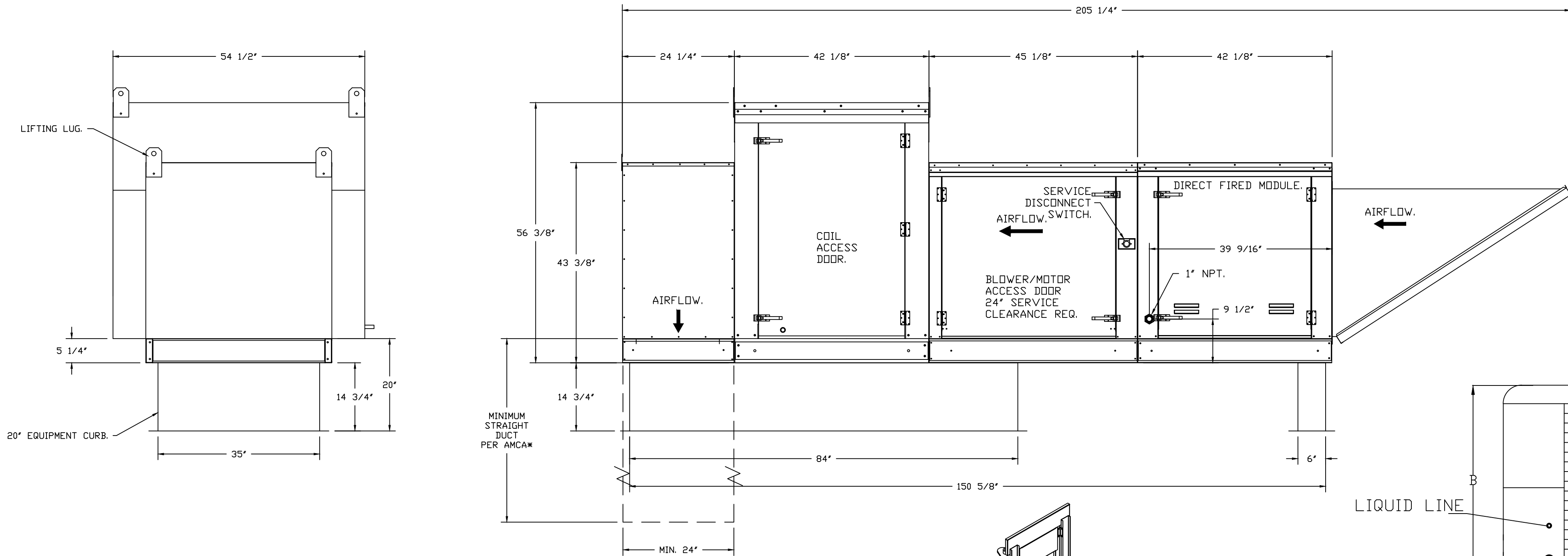
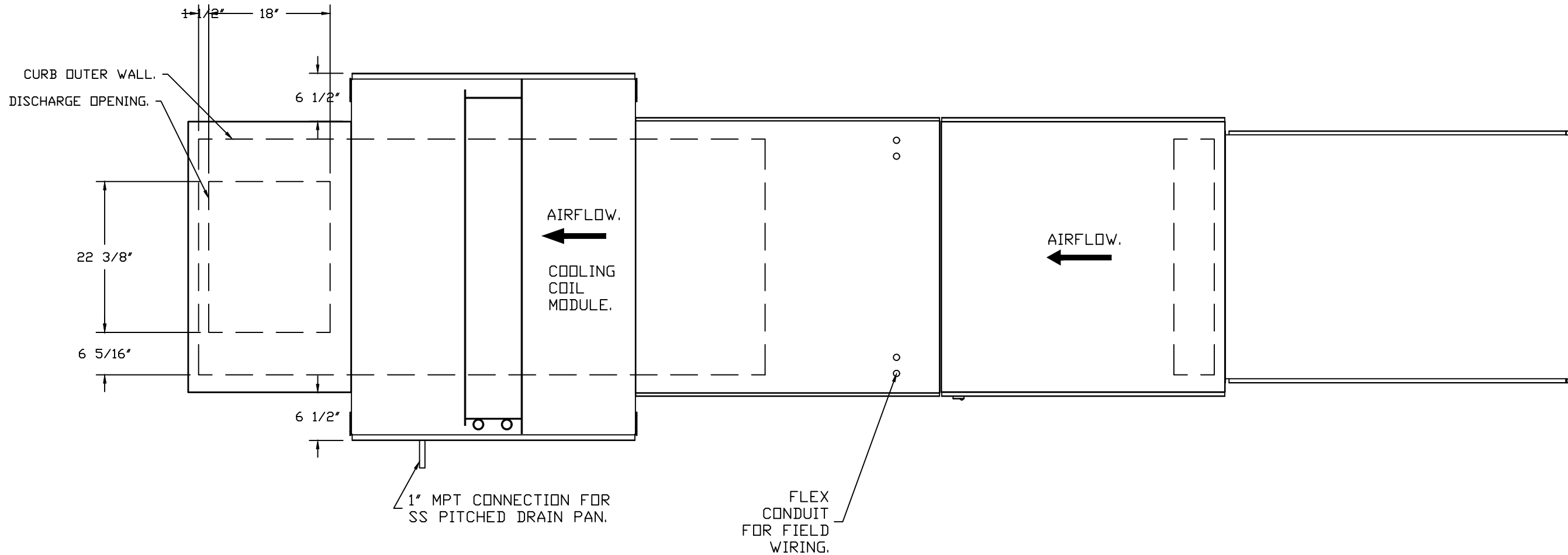
TRUE WARM & WELCOME 2300 R5

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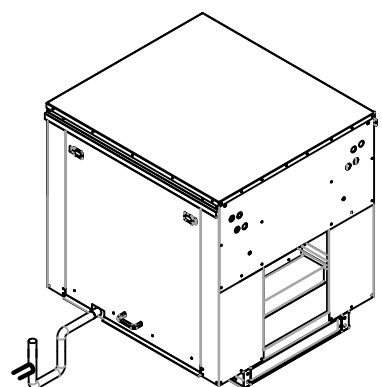
FAN #4 A3-D500-24D-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 24" MIXED FLOW DIRECT DRIVE FAN AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-30", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 1.25" DIAMETER, 1/4" THREAD SIZE.
6. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, NF80P-S ACTUATOR INCLUDED.
7. 10 TON, DUAL CIRCUIT (5/2S) MODULAR PACKAGED COILING OPTION FOR SIZE 3 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (3,600 TO 6,000 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 3E70602M.
8. DOWNTURN PLENUM FOR SIZE 3 COILING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COILING COIL APPLICATIONS.
9. SHIP CONDENSERS LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE.
10. UNIT MOUNTED VFD FOR USE WITH ECPM03.
11. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
12. 2 YEAR PARTS WARRANTY

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 24" x 24".

SUPPLY SIDE HEATER INFORMATION:
WINTER TEMPERATURE = 20°F. TEMP. RISE = 55°F.
BTUS CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 296144.
INPUT BTUS AT ALTITUDE OF 0.0 FT. = 321896.



TYPICAL DRAIN TRAP INSTALL



RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.

Refer to Plumbing Detail P-500 for AC Unit Condensate Drain

NOTES: Important! Copper above roof deck where it is exposed. PVC below roof deck
1) 1" DIAMETER PVC PIPE ONLY.
2) USE ONLY LOW PROFILE COUPLINGS.
3) ADD CLEAN OUT AS SHOWN.

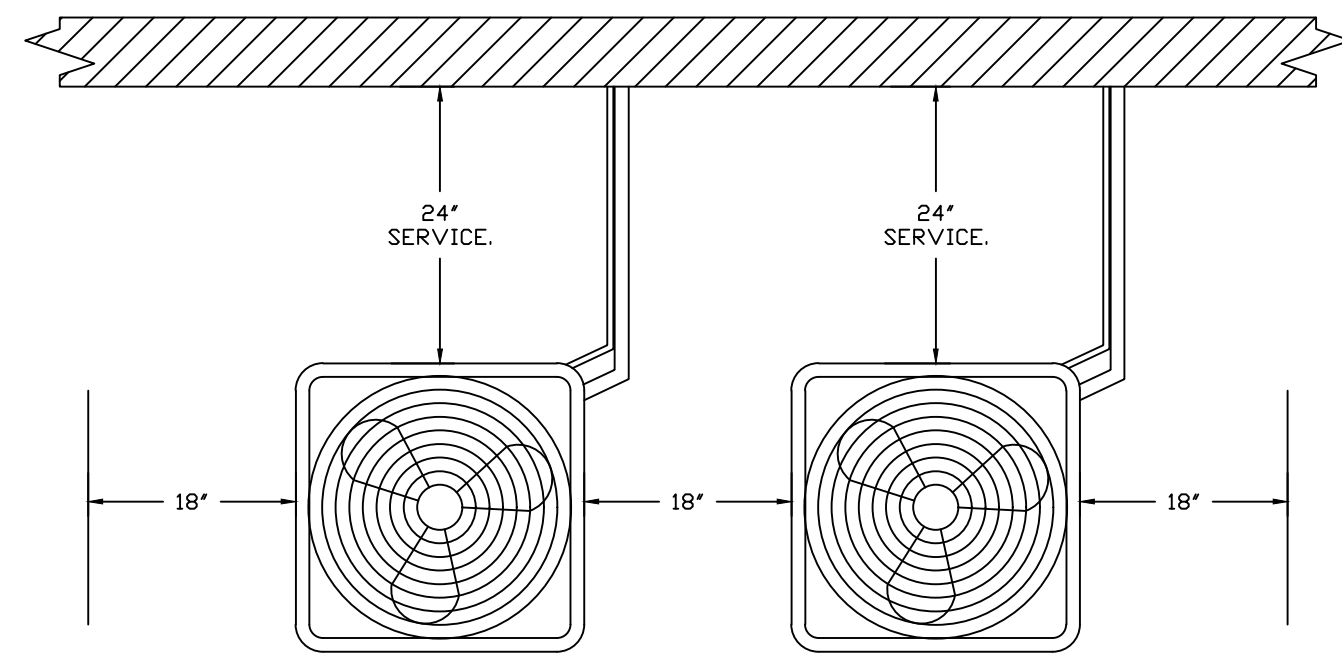
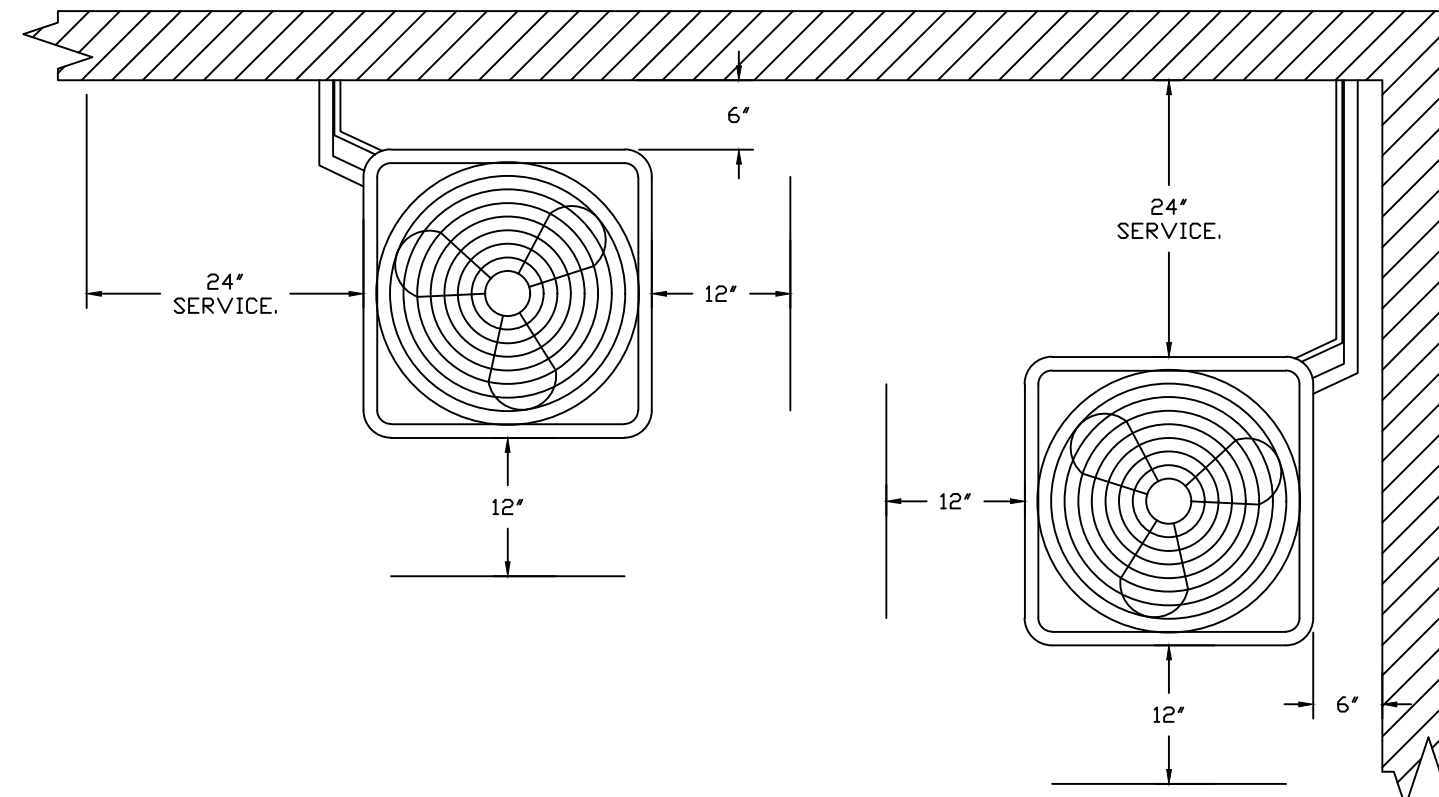
DIRECT FIRED (DF) PROFILE PLATE SPECIFICATIONS:

DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED US PATENT NO. US6695080D, SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 10PPM OF CARBON MONOXIDE (CO) AND COPPER OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

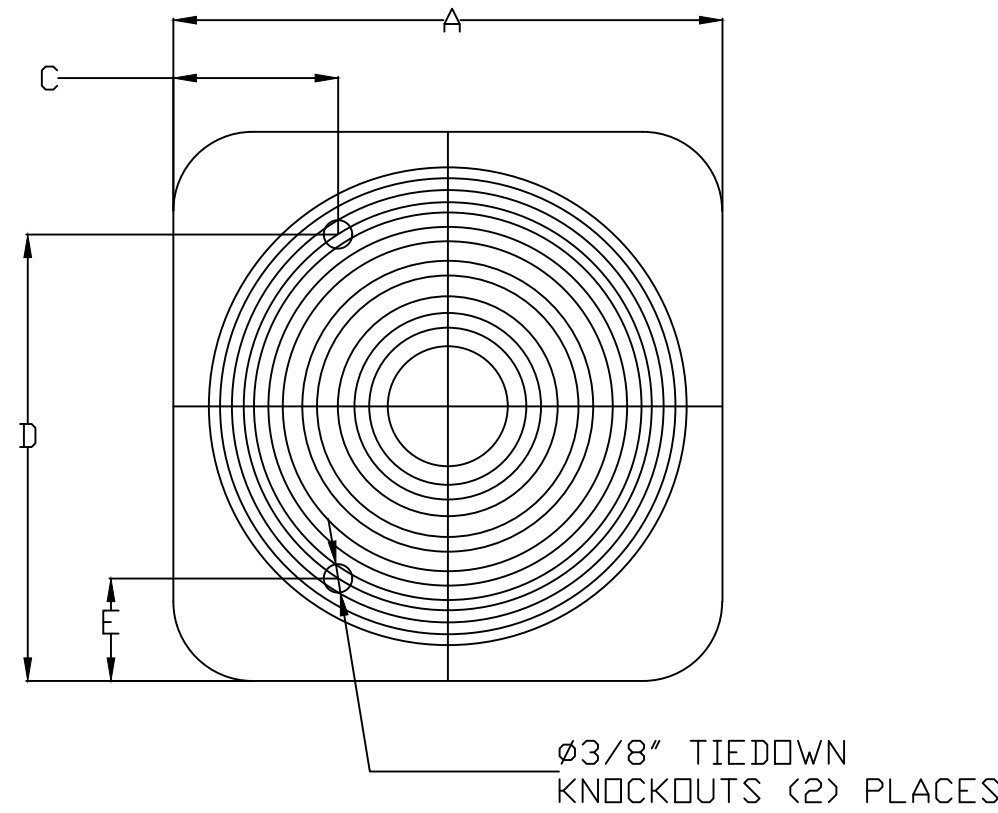
CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNITS ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



CONDENSER CLEARANCES

48" CLEARANCE REQUIRED ABOVE CONDENSERS.
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE).



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

MODEL	WEIGHT	UNIT DIMENSIONS						CONNECTION SIZES		NOMINAL TONNAGE
		A	B	C	D	E		SUCTION	LIQUID	
24ABB360	190 LBS	31-3/16	25-1/2	9-1/8	24-11/16	6-9/16		7/8	3/8	5

ELECTICAL INFORMATION

MODEL	V-PH	RLA	MCA	FUSE SIZE
24ABB360	208/230-3	16.0	21.4	30

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Zierdt Road & Stadium Blvd,
Madison, AL, 35758

DATE: 1/3/2022

DWG.#:
5246152

DRAWN BY: AH-86

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

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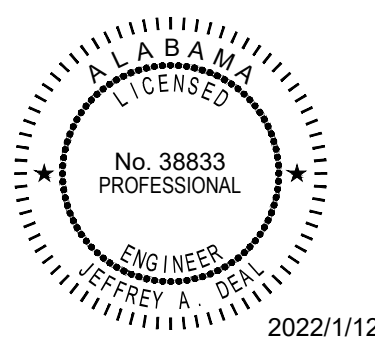
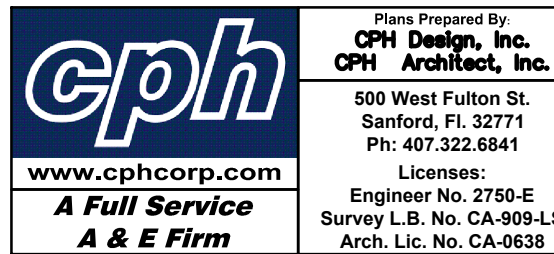
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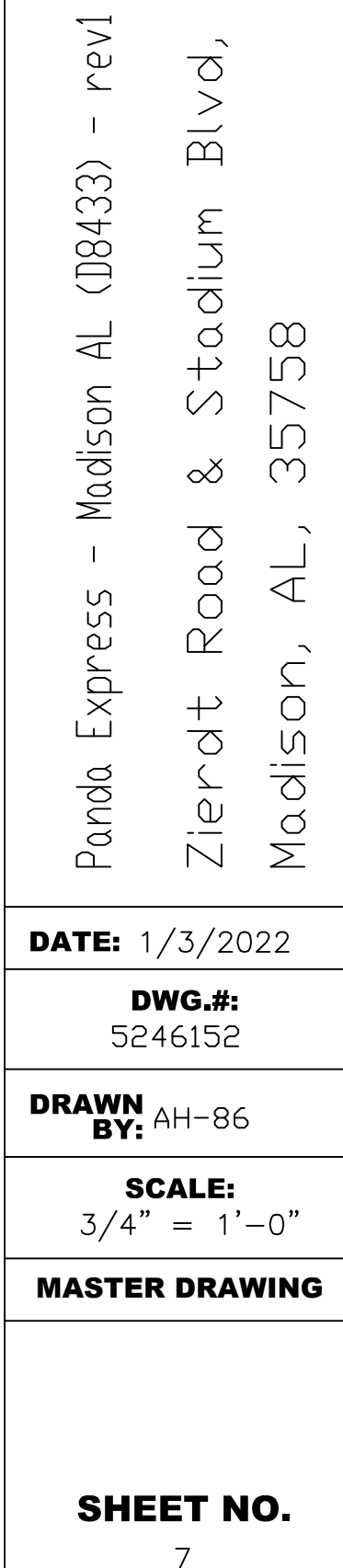
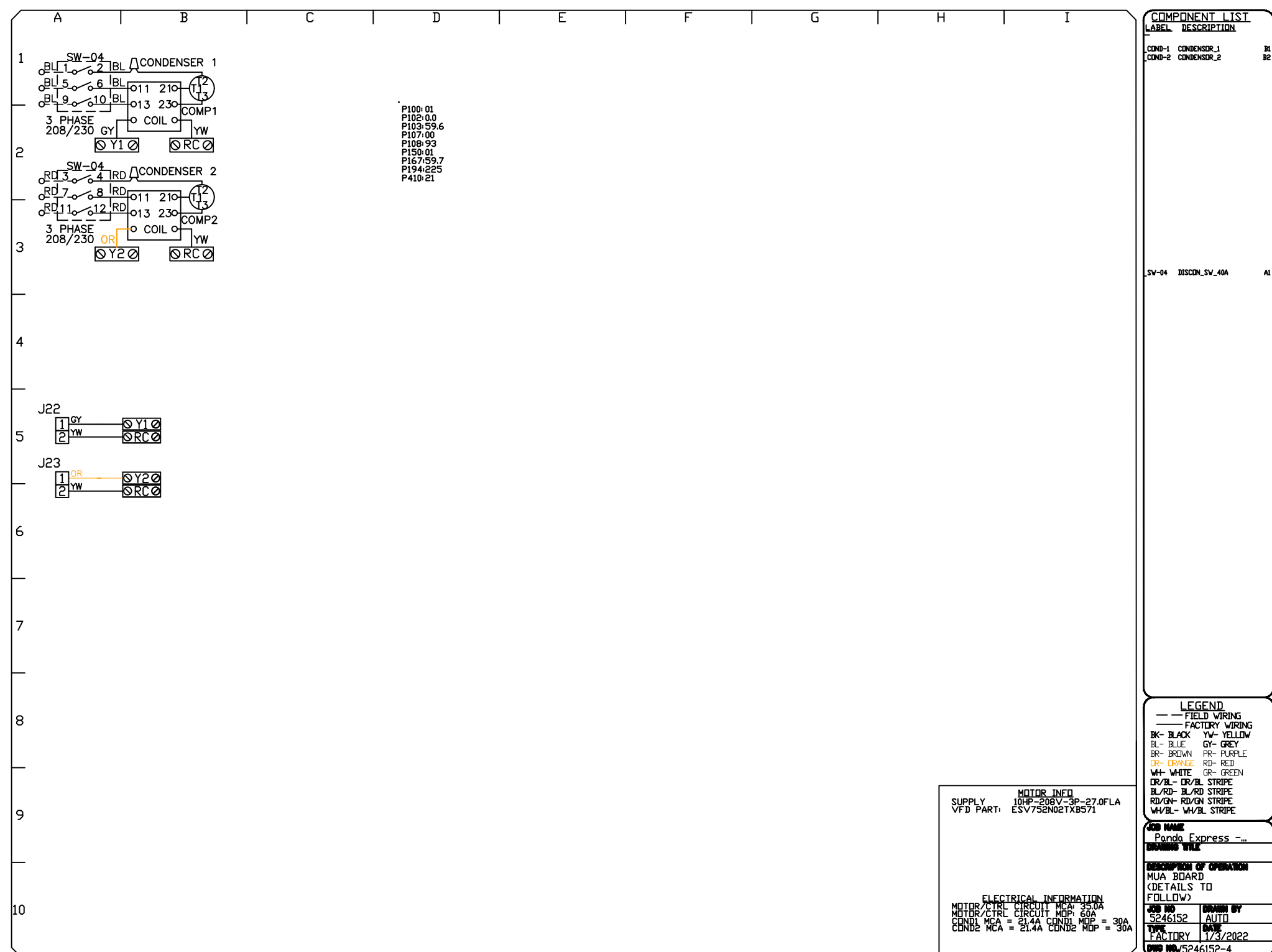
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MADISON, AL 35758

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HOOD DETAIL PLAN

TRUE WARM & WELCOME 2300 R5



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DUCTWORK #1 PARTS – JOB#5246152 DOUBLE WALL										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1829DWLT-2R-S	3400				-0.009	50.46	1924.01	1	DOUBLE WALL DUCT – 18” INNER DUCT, 29’ LONG – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	3400				-0.009	107.98	1924.01	1	DOUBLE WALL ADJUSTABLE DUCT – 18” INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11’ / MAX LENGTH = 48.5’ / ADJUSTMENT = 30.5’ / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL “V” CLAMPS.
P3	DW1890DWASY-2R-S	3400				-0.115	45.59	1924.01	1	DOUBLE WALL DUCT – 18” INNER 90 DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P4	DW1801DWDFSETASY-2R-S	3400				-0.003	14.66	1924.01	1	DOUBLE WALL DUCT – 18” INNER DUCT RISER & 1 DEGREE OFFSET – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P5	DW1827DWAJD-2R-S	3400				-0.006	62.85	1924.01	1	DOUBLE WALL ADJUSTABLE DUCT – 18” INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11’ / MAX LENGTH = 24.5’ / ADJUSTMENT = 13.5’ / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL “V” CLAMPS.
P6	DW2226SADKIT						8.80		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22” DD – INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P7	DW1801DWDFSETASY-2R-S	3400				-0.003	14.66	1924.01	1	DOUBLE WALL DUCT – 18” INNER DUCT RISER & 1 DEGREE OFFSET – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW18DWTASY-2R-S	3400		1		-0.23	55.68	1924.01	1	DOUBLE WALL DUCT – 18” INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P8 D-S	DW18DWACDDDRCDV-2R-S						26.16		1	DOUBLE WALL DUCT – 18” INNER ACCESS DDOOR & 22” ACCESS DDOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P11	DW1835DWLTTT-2R-S	3400				-0.011	58.74	1924.01	1	DOUBLE WALL DUCT – 18” INNER DUCT, 35’ LONG – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATES
P11 ASSEMBLED W/P10	DW2618TPDBEX	3400					9.00	1924.01	1	DUCT TO CURB TRANSITION 3/4” DOWN TURN, 26 1/2” CURB TO 18” DUCT, 16 GA ALUMINIZED, USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE DD IS 27.00” DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P11						-1.588	0.00			
P12	DW2226SADKIT						8.80		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22” DD – INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
	3M-2000PLUS						0.80		3	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		3	DUCT – 18” DUCT – 22” DOUBLE “V” CLAMP – 2R INSULATION & SINGLE “V” CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							491.88			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16” PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16” PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5”	7’
6”	7’
7”	7’
8”	7’
10”	7’
12”	7’
14”	7’
16”	7’
18”	5’
20”	5’
22”	5’
24”	5’
26”	5’
28”	5’
30”	5’
32”	5’
34”	5’
36”	5’

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5”-16”)	20’	24’	24’
2R (18”)	18’	24’	24’
3R & 3Z (5”-24”)	10’	24’	24’
3Z (26” -36”)	10’	20’	20’

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

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Panda Express – Madison AL (D8433) – rev1
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DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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

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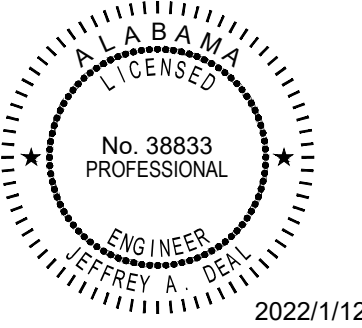
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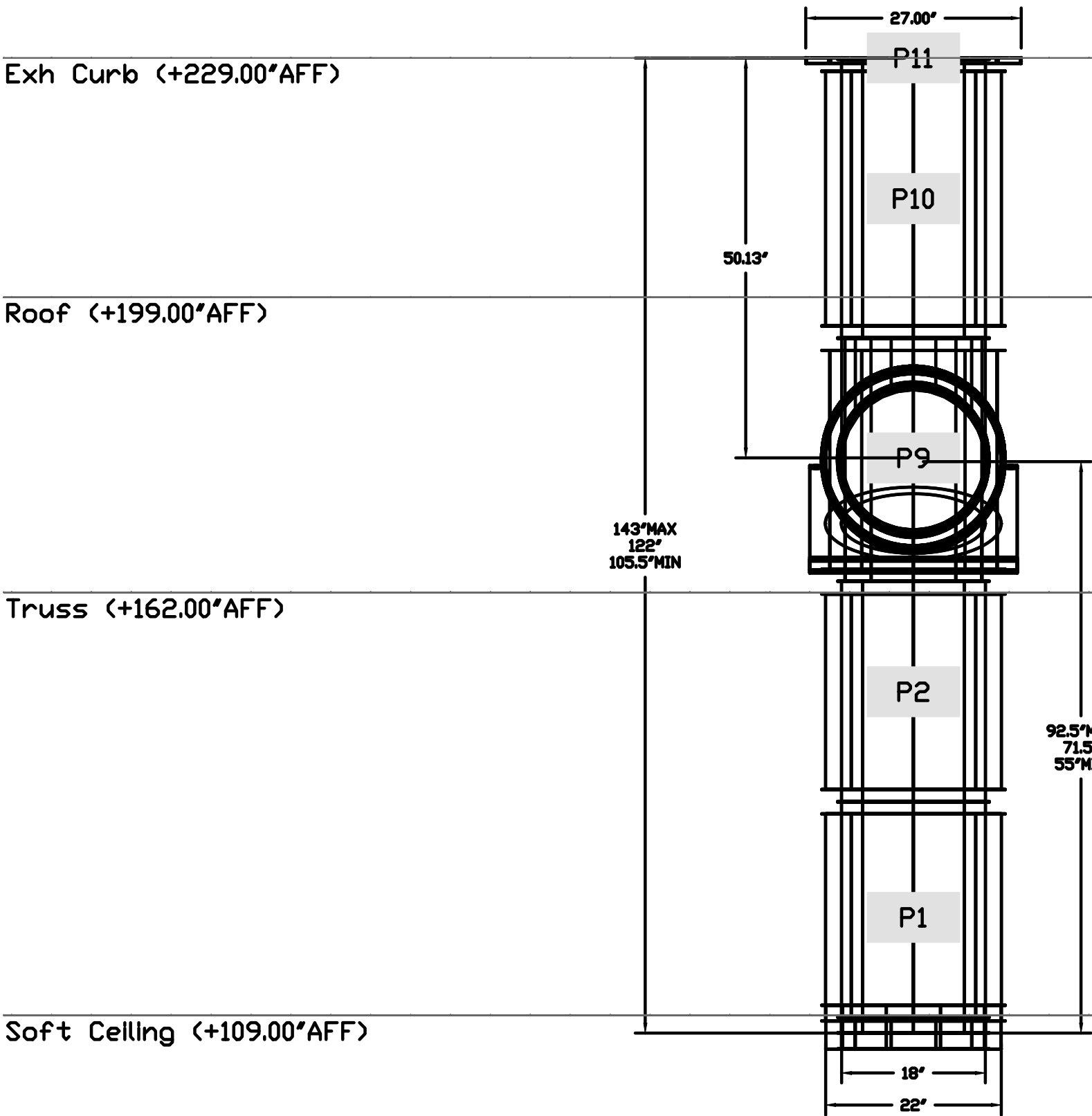
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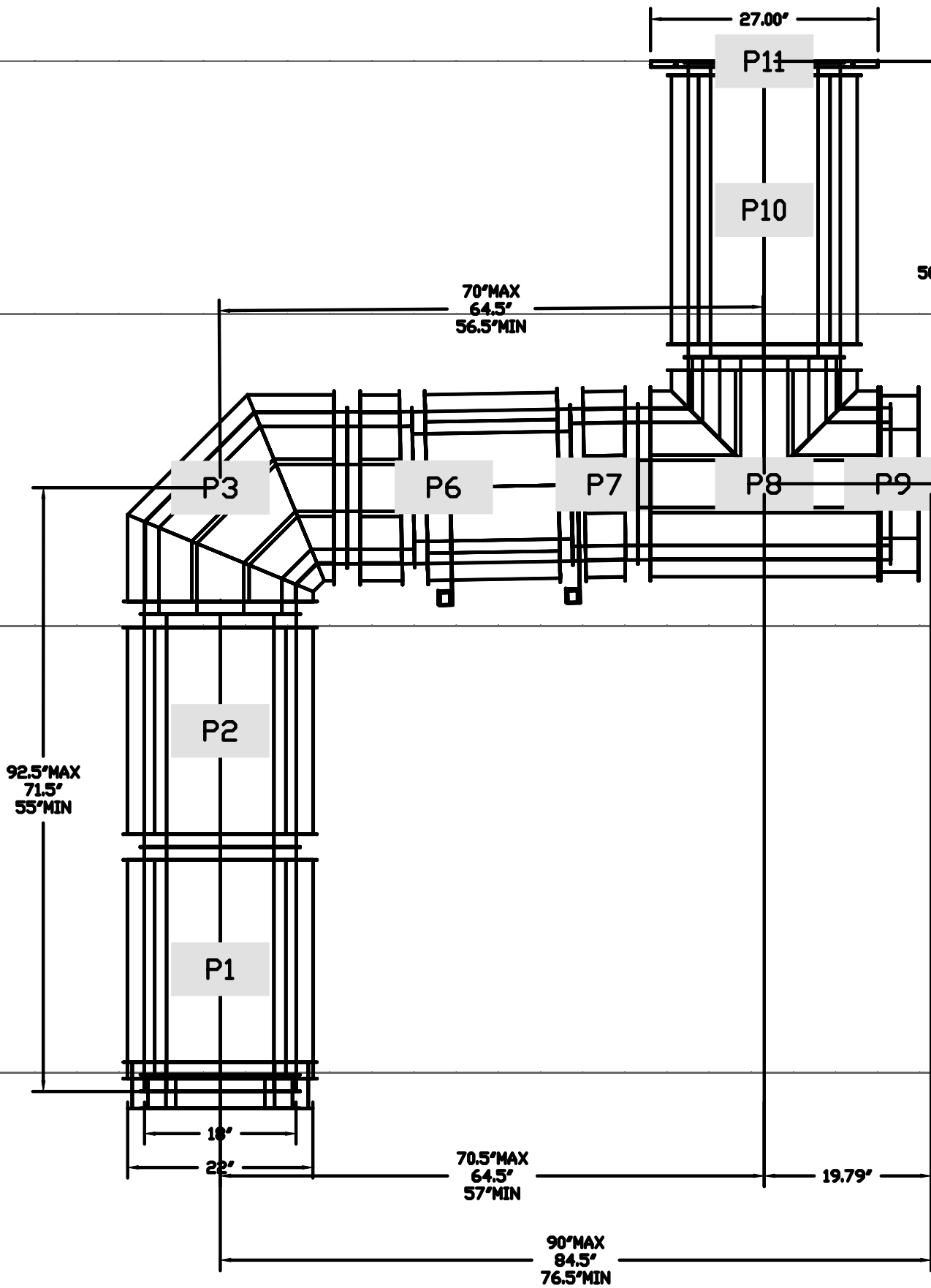
M-408

HOOD DETAIL PLAN

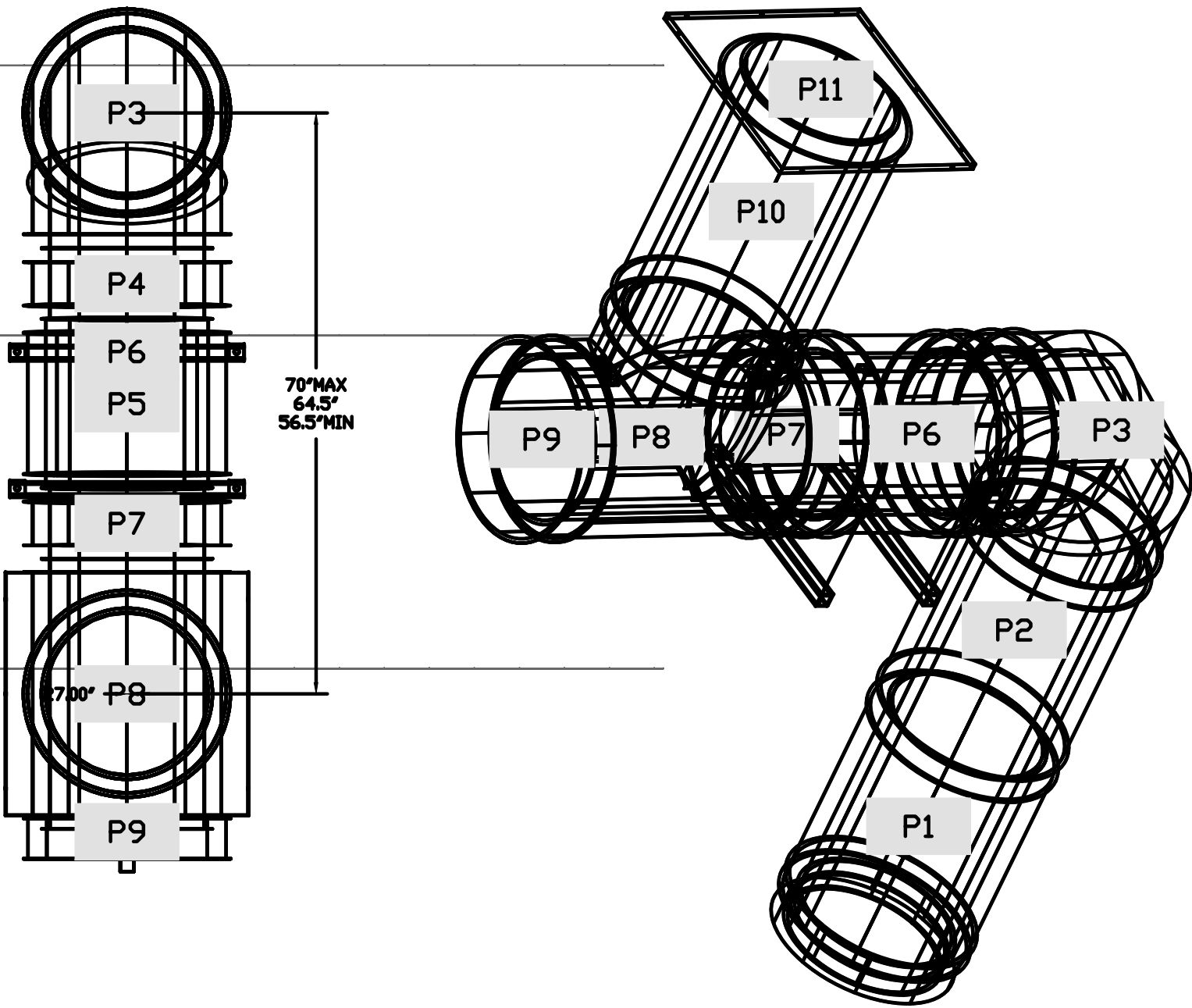
DUCTWORK #1 FRONT VIEW



DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW DUCTWORK #1 SE VIEW



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DESCRIPTION	DATE



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DRAWN BY: AH-86

SCALE:
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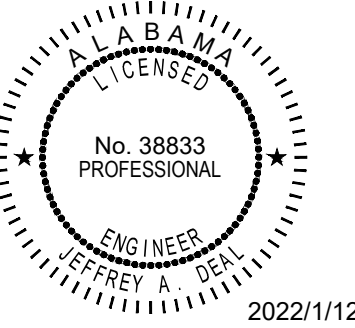
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Licenses:
Engineer No. 2760-E
Survey L.B. No. CA-9094-S
Arch. Lic. No. CA-0638



PANDA EXPRESS
TRUE WARM & WELCOME 2300
101 STADIUM WAY
MADISON, AL 35758

△

M-409

HOOD DETAIL PLAN

DUCTWORK #2 PARTS – JOB#5246152 DOUBLE WALL										
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1829DWLT-2R-S	2900				-0.007	50.46	1641.06	1	DOUBLE WALL DUCT – 18” INNER DUCT, 29” LONG – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P2	DW1847DWAJD-2R-S	2900				-0.006	107.98	1641.06	1	DOUBLE WALL ADJUSTABLE DUCT – 18” INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11’ / MAX LENGTH = 48.5’ / ADJUSTMENT = 30.5’ / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL “V” CLAMPS.
P3	DW1890DWASY-2R-S	2900				-0.084	45.59	1641.06	1	DOUBLE WALL DUCT – 18” INNER 90 DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P4	DW1801DWDFSETASY-2R-S	2900				-0.002	14.66	1641.06	1	DOUBLE WALL DUCT – 18” INNER DUCT RISER & 1 DEGREE OFFSET – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P5	DW1827DWAJD-2R-S	2900				-0.004	62.85	1641.06	1	DOUBLE WALL ADJUSTABLE DUCT – 18” INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11’ / MAX LENGTH = 24.5’ / ADJUSTMENT = 13.5’ / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL “V” CLAMPS.
P6	DW2226SADKIT						8.80		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22” OD – INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
P7	DW1801DWDFSETASY-2R-S	2900				-0.002	14.66	1641.06	1	DOUBLE WALL DUCT – 18” INNER DUCT RISER & 1 DEGREE OFFSET – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P8 ASSEMBLED W/P9	DW18DWTEASY-2R-S	2900		1		-0.168	55.68	1641.06	1	DOUBLE WALL DUCT – 18” INNER TEE DUCT – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P9 ASSEMBLED W/P8 & S	DW18DWACCDORCDV-2R-S						26.16		1	DOUBLE WALL DUCT – 18” INNER ACCESS DOOR & 22” ACCESS DOOR COVER WITH CLAMPS – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL.
P10 ASSEMBLED W/P11	DW1835DWLTTP-2R-S	2900				-0.008	58.74	1641.06	1	DOUBLE WALL DUCT – 18” INNER DUCT, 35” LONG – 2 LAYERS REDUCED CLEARANCE – 22” STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATES
P11 ASSEMBLED W/P10	DW2618TPDBEX	2900					9.00	1641.06	1	DUCT TO CURB TRANSITION 3/4” DOWN TURN, 26 1/2” CURB TO 18” DUCT, 16 GA ALUMINIZED. USED ON NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. TRANSITION PLATE OD IS 27.00” DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P11						-1.178	0.00			
P12	DW2226SADKIT						8.80		1	DUCT – HORIZONTAL SADDLE SUPPORT KIT, USED WITH 22” OD – INCLUDES UNI-STRUT CUT TO LENGTH, DW2226SAD, & HARDWARE BAG 4.
	3M-2000PLUS						0.80		3	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
	DW18DWCLASY-2R-S						8.70		3	DUCT – 18” DUCT – 22” DOUBLE “V” CLAMP – 2R INSULATION & SINGLE “V” CLAMP INCLUDED – REDUCED CLEARANCE.
TOTAL WEIGHT							491.88			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16” PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16” PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5’	7’
6’	7’
7’	7’
8’	7’
10’	7’
12’	7’
14’	7’
16’	7’
18’	5’
20’	5’
22’	5’
24’	5’
26’	5’
28’	5’
30’	5’
32’	5’
34’	5’
36’	5’

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5’-16’)	20’	24’	24’
2R (18’)	18’	24’	24’
3R & 3Z (5’-24’)	10’	24’	24’
3Z (26’ -36’)	10’	20’	20’

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

REVISIONS

DESCRIPTION	DATE
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△	
△	
△	

CAPTIVEAIRE
Southern California Office
3002 Dow Ave., Suite 410, Tustin, CA 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: reg86@captiveaire.com

Panda Express – Madison AL (D8433) – rev1
Zierdt Road & Stadium Blvd,
Madison, AL, 35758

DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

SCALE: 3/4” = 1’-0”

MASTER DRAWING

SHEET NO. 11

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:	
△ OWNER REVISION	01-07-22

ISSUE DATE:	
1 CHECK SET	07-19-21
2 PERMIT SET	09-17-21
3 BID SET	11-08-21
4 BID SET REISSUE	01-14-22

DRAWN BY:

PANDA PROJECT #: S8-22-D8433
ARCH PROJECT #: P7363

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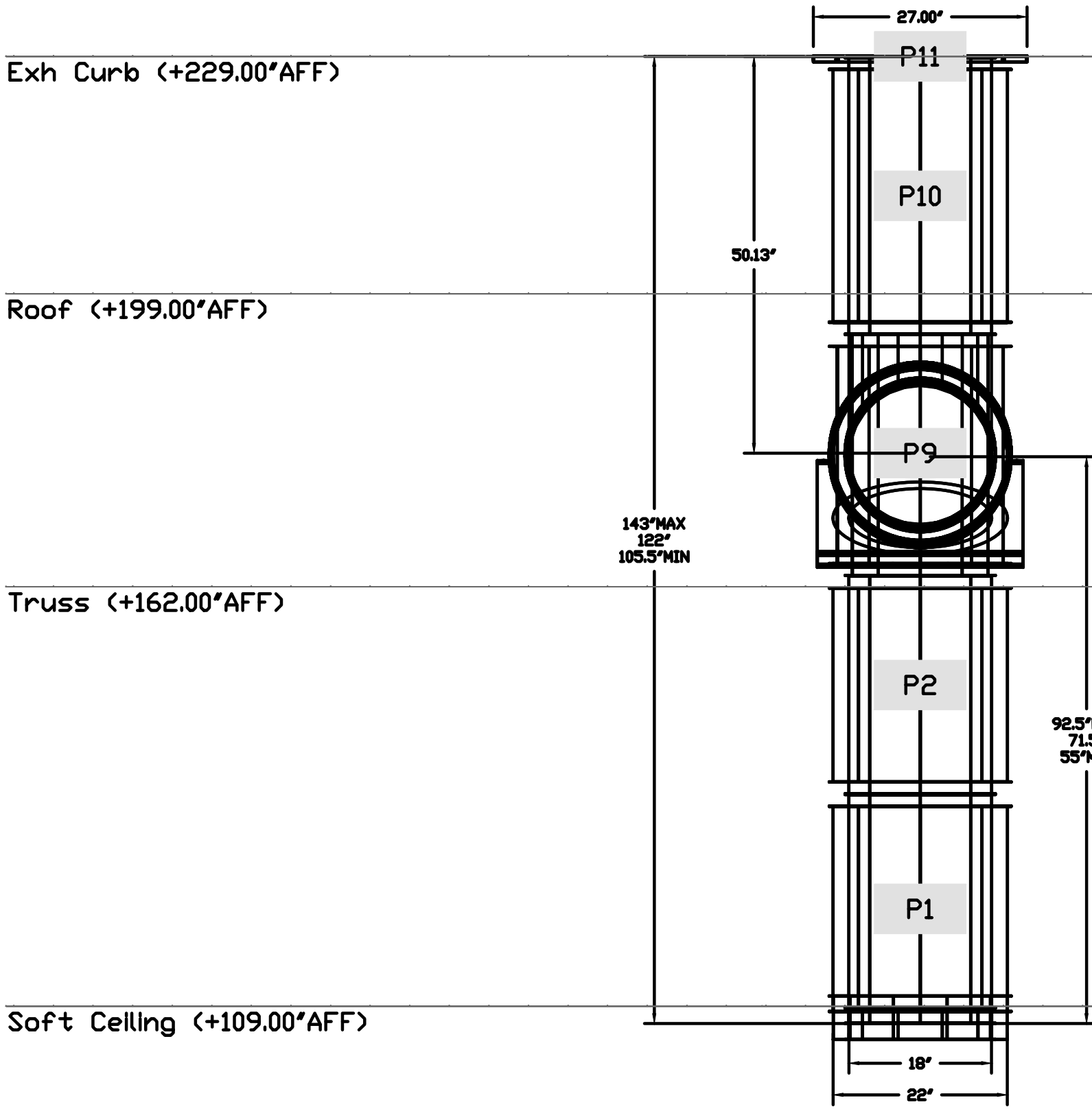
M-410

HOOD DETAIL PLAN

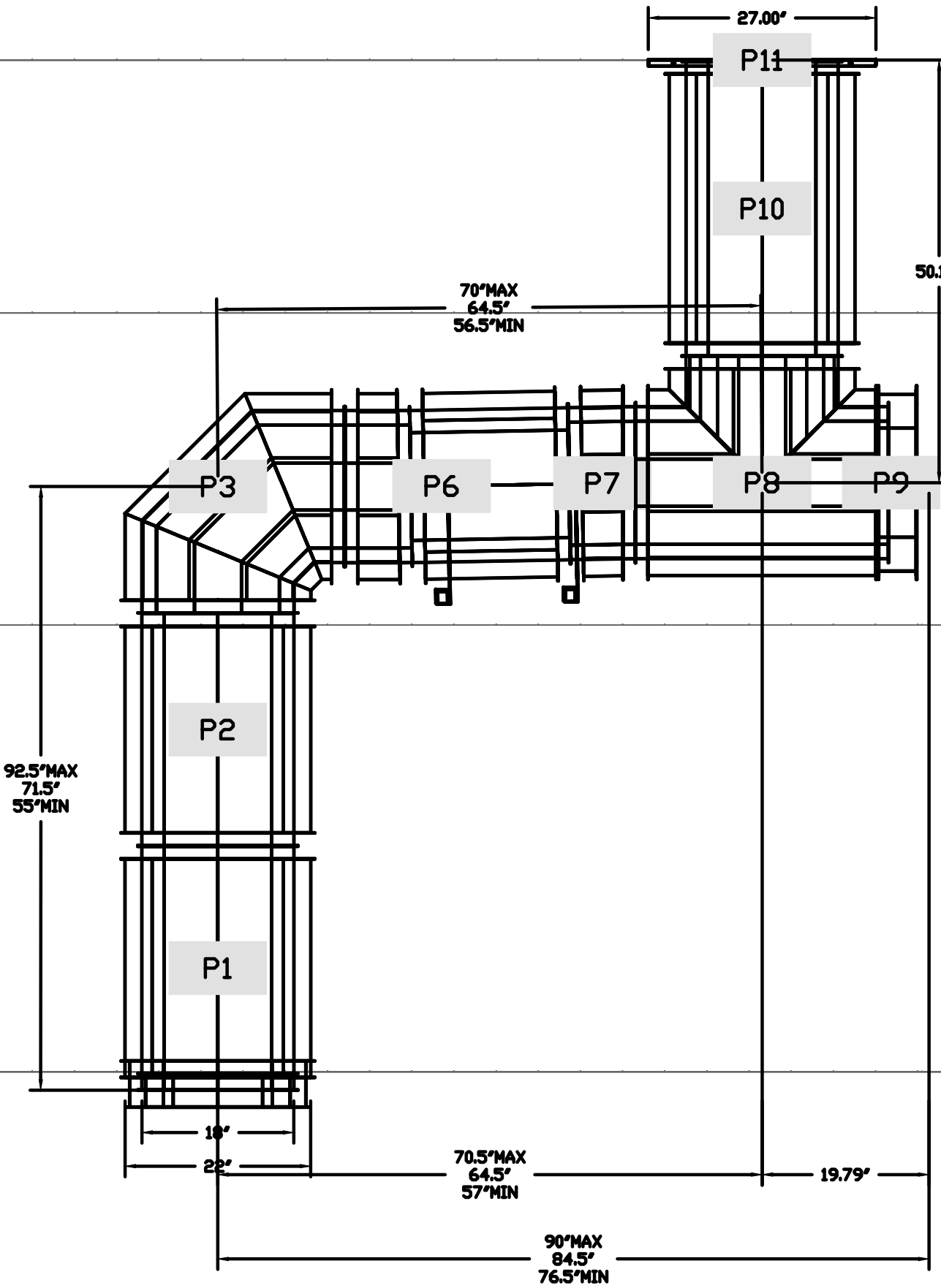
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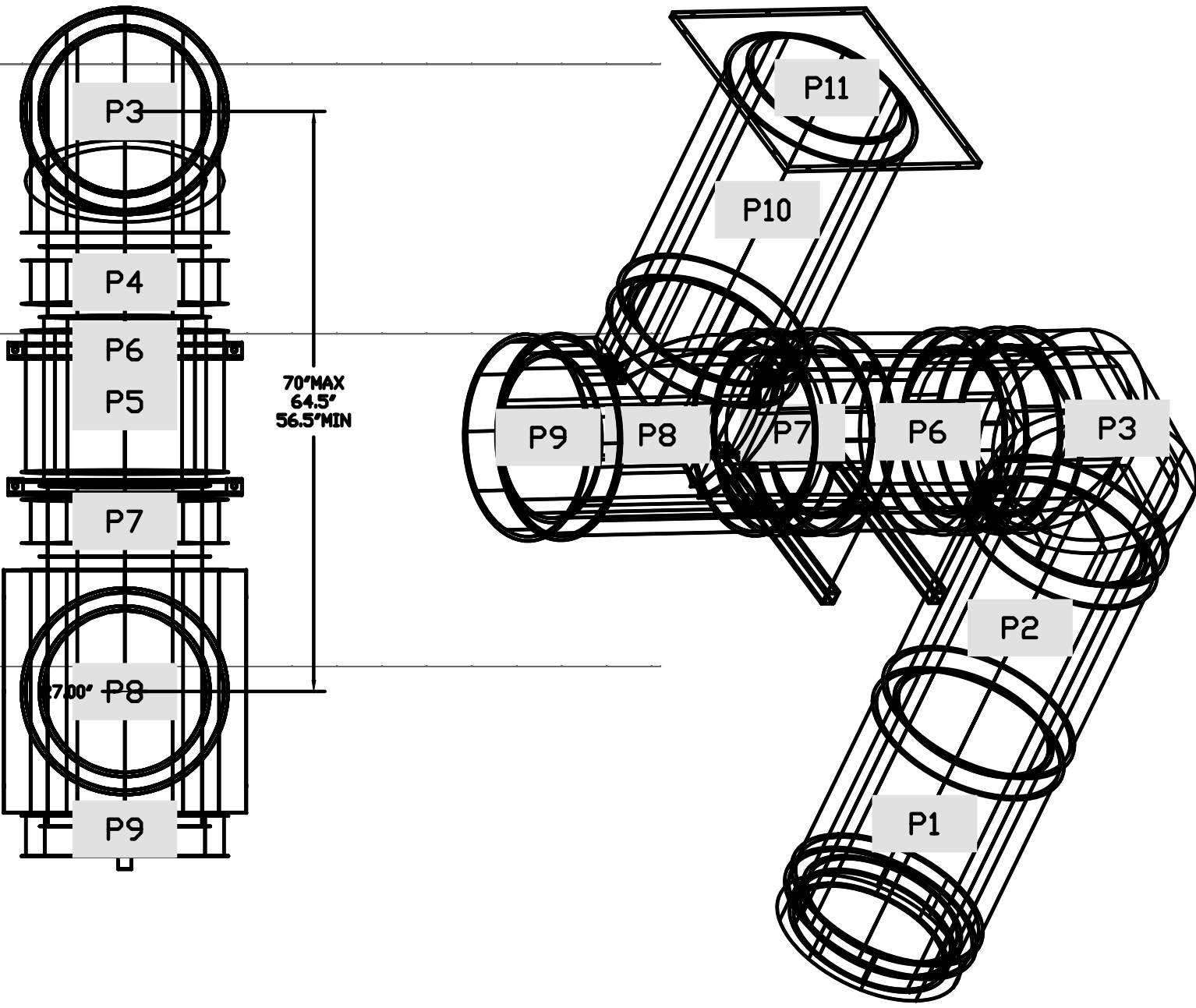
DUCTWORK #2 FRONT VIEW



DUCTWORK #2 SIDE VIEW



DUCTWORK #2 TOP VIEW DUCTWORK #2 SE VIEW



Floor (+0.00'AFF)

REVISIONS	
DESCRIPTION	DATE

Southern California Office
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PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: raj98@captiveaire.com

Panda Express - Madison AL (D8433) - rev1

Zierdt Road & Stadium Blvd,
Madison, AL, 35758

DATE: 1/3/2022

DWG.#: 5246152

DRAWN BY: AH-86

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

MASTER DRAWING

SHEET NO.
12



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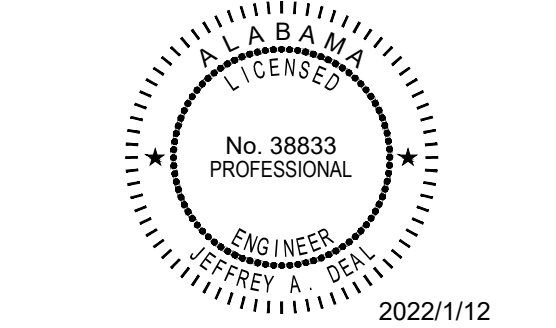
DRAWN BY:

PANDA PROJECT #: S8-22-D8433

ARCH PROJECT #: P7363

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A & E Firm**

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Arch. Lic. No. CA-0638



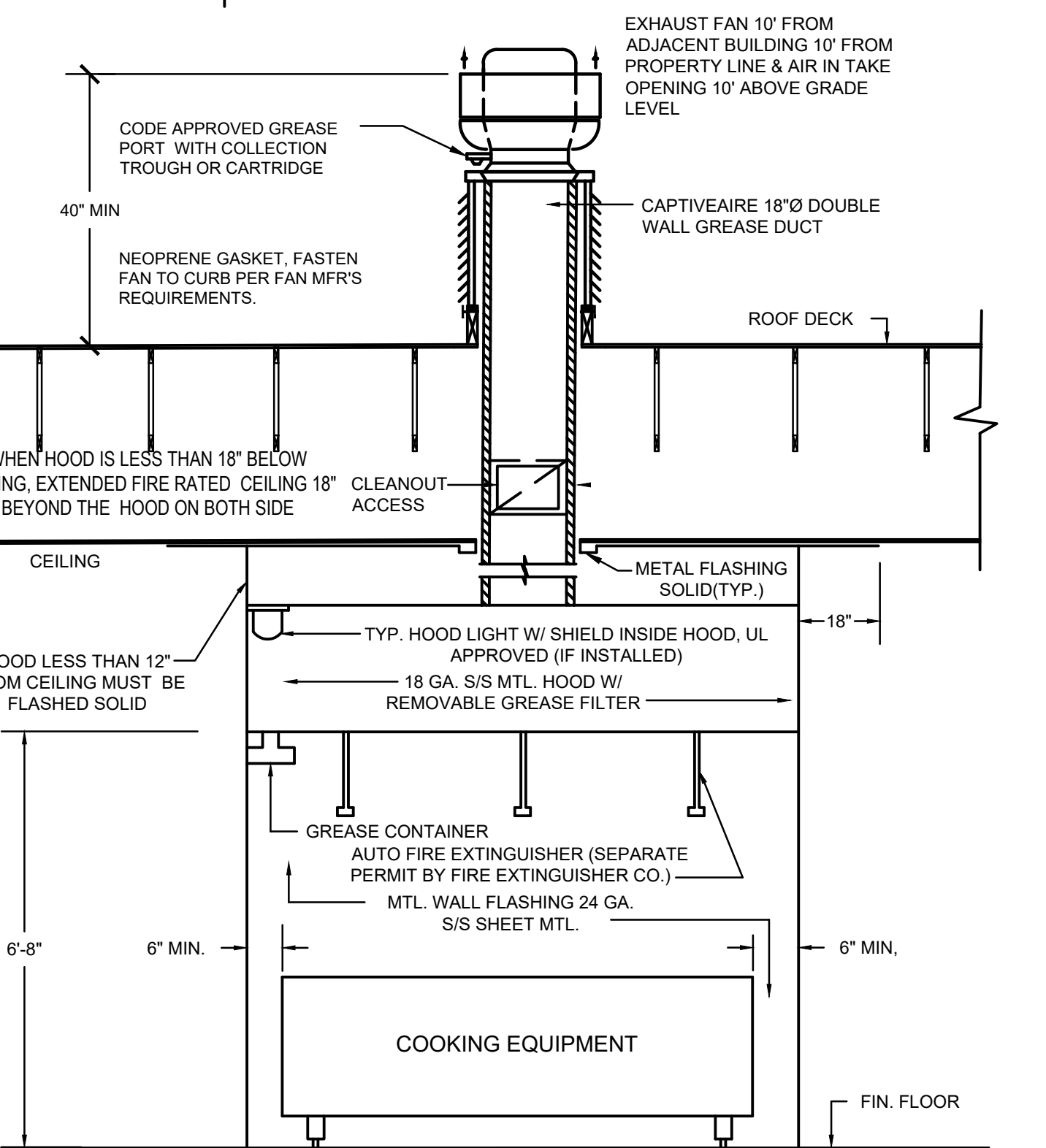
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TRUE WARM & WELCOME 2300
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MADISON, AL 35758

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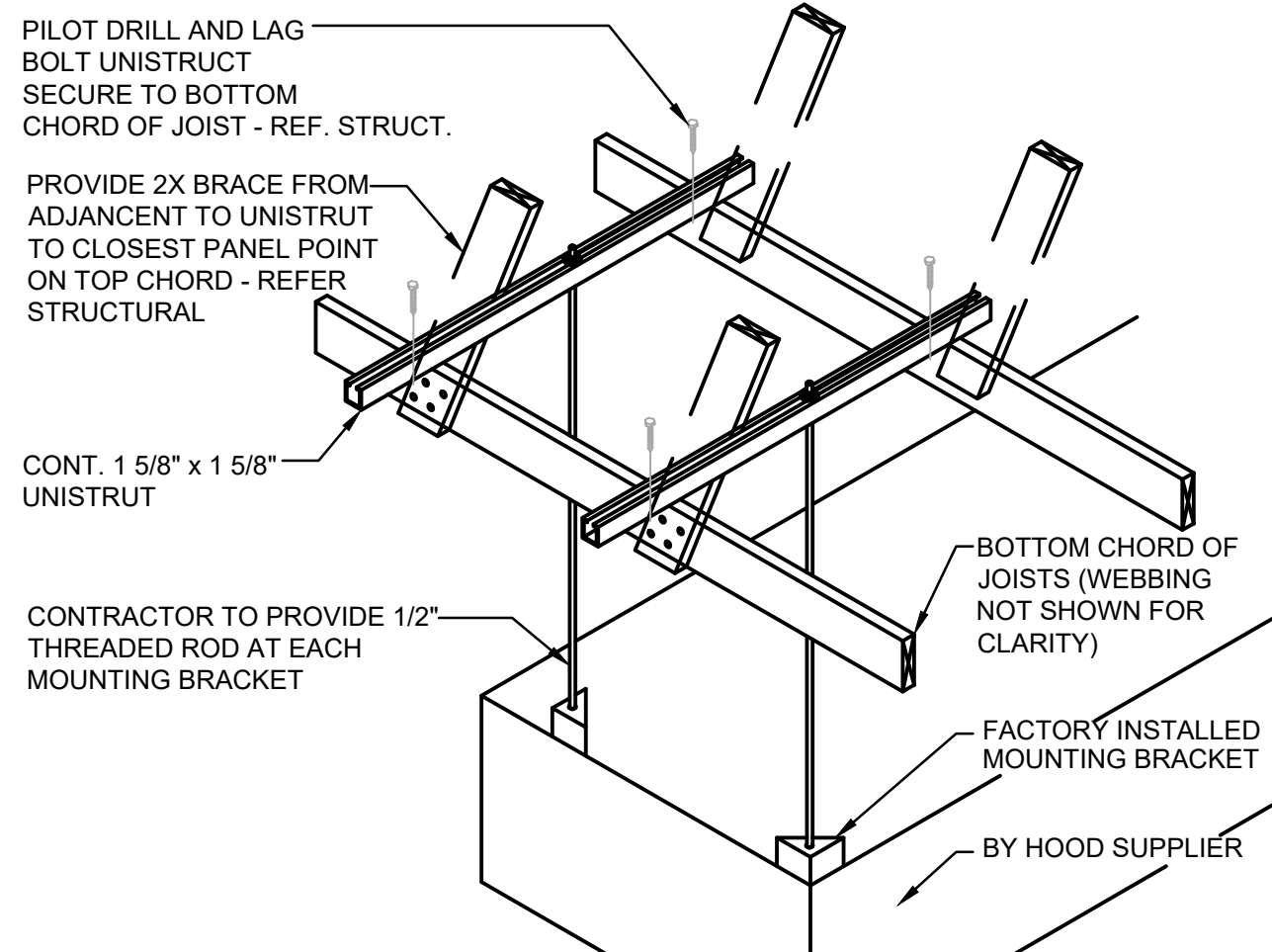
M-411

HOOD DETAIL PLAN

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Scale: NO SCALE

CLEAN OUT DOOR DETAIL
N.T.S.



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M-500

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