

HVAC ABBREVIATIONS

ACC	AIR COOLED CONDENSING UNIT (HVAC)
AFB	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CU	CONDENSING UNIT (COOLER)
EF	EXHAUST FAN
ER	EXHAUST REGISTER
(E)/EXT'G	EXISTING
HD	HOOD
MAU	MAKEUP AIR UNIT
OBD	BLADE DAMPER
RG	RETURN GRILL
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL

SUPPLIER/VENDOR ABBREVIATIONS

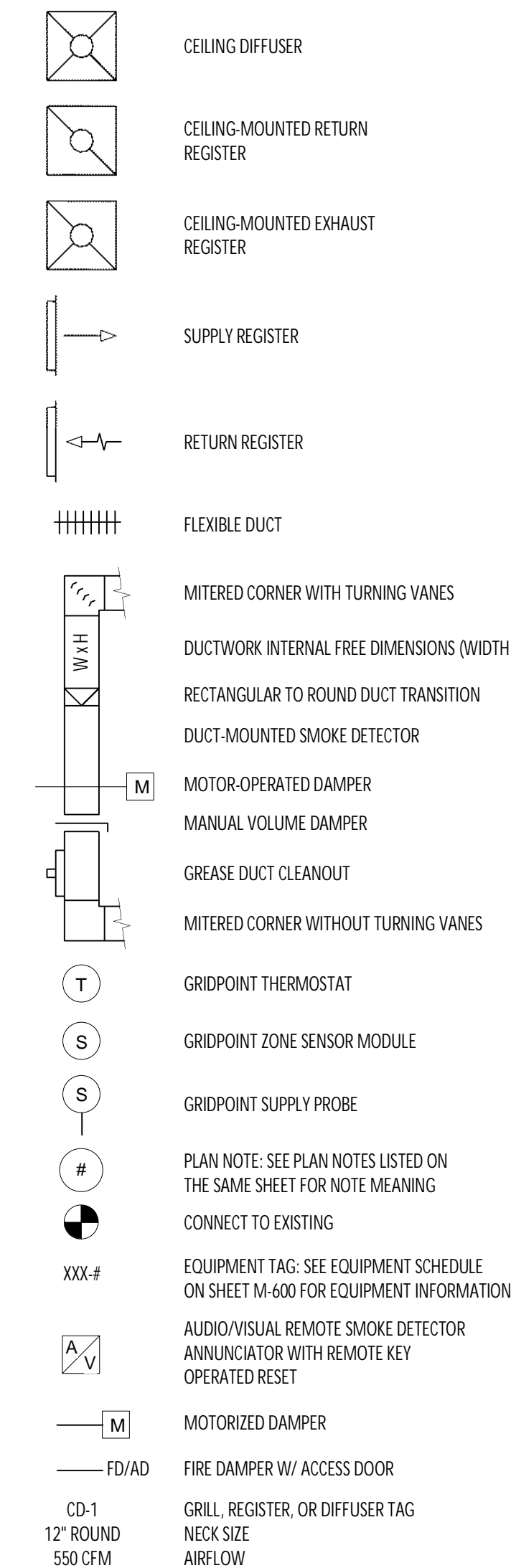
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KE5	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC GENERAL NOTES

- A. GENERAL NOTES APPLY TO HVAC SHEETS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET G-001 FOR THE PREVAILING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE, RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN, MERV 7 AIR FILTERS AT TURNOVER.
- K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L. PROVIDE LABELING CALLED FOR IN THE HVAC PLANS USING ENGRAVED PHENOLIC PLATES.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCTEABLE.

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

HVAC SYMBOLS



HVAC SPECIFICATIONS

- SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS**
- PART 1 - GENERAL**
- 1.1 SECTION REQUIREMENTS**
- A. Submittals: Product Data and Shop Drawings.
 - B. Comply with ASHRAE 15.
 - C. EER: Equal to or greater than prescribed by Energy Conservation Code 2018 of PA (2018 IECC w/ amendments).
 - D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.
- PART 2 - PRODUCTS**
- 2.1 PACKAGED UNITS, 5 TO 20 TONS**
- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
 2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
 3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 4. Condenser Fans: Direct drive propeller.
 5. Refrigerant Coils: Aluminum fins and copper coil.
 6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
 7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutoff, and forced draft proving switch.
 8. Economizer controls (Comparative Enthalpy, 100% capacity).
 9. Low ambient controls.
 10. Smoke Detectors: Photoelectric - In supply and/or return as called for on teh schedule on M-600.
 11. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.
 12. Roof curb.
 13. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
 14. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.
- PART 3 - EXECUTION**
- 3.1 INSTALLATION**
- A. Install units level and plumb and firmly anchored.
 - B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
 - C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.
 - D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.
 - E. Connect units to wiring systems and to ground.
- END OF SECTION 15732

- SECTION 15810 - DUCTS AND ACCESSORIES**
- PART 1 - GENERAL**
- 1.1 SECTION REQUIREMENTS**
- A. Submittals: Product Data for fire and smoke dampers.
 - B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
 - C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft.
 - D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," Chapter 3, "Duct System," for range hood ducts, except single family residential usage, unless otherwise indicated.
 - E. Comply with UL 181 and UL 181A for ducts and closures.
 - F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified.
- PART 2 - PRODUCTS**
- 2.1 DUCTS**
- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
 1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
 2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
 - B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
 - C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 6.3.
 1. Adhesive: ASTM C 916, Type I.
 2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
 - D. Joint and Seam Tape: Comply with UL 181A.
 - E. Joint and Seam Sealant: Comply with UL 181A.
 - F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
 - G. Rectangular Exposed, Exterior Ductwork: Rectangular exposed, exterior ductwork shall be insulated with insulation board, 6 lb/cu ft and minimum thickness to yield the R-value required by the energy code, with ASJ or FSK facing. Facings shall have a maximum vapor transmission rate of .02 perms. After insulation has been installed, install Alumaguard™ Peel & Stick, self-healing UV stable Bitumen membrane by Polyguard Products, Inc., in accordance with manufacturer's recommendations. Seal all seams and penetrations.
- 2.2 ACCESSORIES**
- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
 - B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
 - C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
 - D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.
- PART 3 - EXECUTION**
- 3.1 INSTALLATION**
- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
 - B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
 - C. Avoid passing through electrical equipment spaces and enclosures.
 - D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
 - E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
 - F. Install liner on all supply and return duct.
 - G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
 - H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
 - I. Install fusible links in fire dampers.
 - J. Provide saddle taps at tees for exposed ductwork.
- 3.2 TESTING, ADJUSTING, AND BALANCING**
- A. The owner will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
 - B. The general contractor is to have trained staffed available during the balancing to correct issues noted by the balance agent.
 - C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
 - D. The balance agent is to supply a copy of the balance report to the owner, engineer and general contractor for review.
- END OF SECTION 15810

- SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES**
- PART 1 - GENERAL**
- 1.1 SECTION REQUIREMENTS**
- A. Submittals: None.
- PART 2 - PRODUCTS**
- 2.1 OUTLETS AND INLETS**
- A. Diffusers:
 1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
 3. Material: As scheduled.
 4. Finish: As scheduled.
 5. Mounting: As scheduled.
 - B. Wall and Ceiling Registers:
 1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
 3. Material: As scheduled.
 4. Finish: As Scheduled.
 5. Mounting: Countersunk screw.
 - C. Wall and Ceiling Grilles:
 1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
 3. Material: As scheduled.
 4. Finish: As Scheduled.
 5. Mounting: Countersunk screw or lay in depending location.
- PART 3 - EXECUTION**
- 3.1 INSTALLATION**
- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
 - B. Locate ceiling diffusers, registers, and grilles, as indicated on general construction "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.
- END OF SECTION 15855
- SECTION 15900 - HVAC INSTRUMENTATION AND CONTROLS**
- PART 1 - GENERAL**
- 1.1 SECTION REQUIREMENTS**
- A. Summary: Electric/electronic control sequences for HVAC systems and equipment.
 - B. Submittals: Shop Drawings detailing operating control sequences of each item of HVAC equipment and system and Product Data for controllers, sensors, operators, control panels, thermostats, humidistats, actuators, control valves and dampers.
 - C. System Description: Control systems consists of sensors, indicators, actuators, final control elements, interface equipment, and other apparatus, accessories, required to operate mechanical systems according to sequences of operation indicated and specified.
 - D. Operation Sequence:
 1. Unoccupied Cycle: During unoccupied hours, as set by the Energy Management System, the outside air and return dampers for the HVAC unit close, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the HVAC unit energizes.
 2. Occupied Cycle: During occupied hours, as set by the Energy Management System, the outside air and return dampers open to a minimum set point. The furnace and exhaust fans run continuously. Upon a call for heating, the furnace heating energizes. Upon a call for cooling, the condensing unit energizes.
- PART 2 - PRODUCTS (Not Applicable)**
- PART 3 - EXECUTION**
- 3.1 INSTALLATION**
- A. Install control wiring concealed, except in mechanical rooms, and according to requirements specified in Division 16 Sections.
- END OF SECTION 15900

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REV.	DATE	DESCRIPTION
2022.09.26	LANDLORD REVIEW	
2022.10.12	PERMIT SET	

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
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PROFESSIONAL IN CHARGE: Anthony J. Scalamandre, P.E.
DRAWN BY: PCE
CHECKED BY: AS

PROJECT NUMBER:
22044

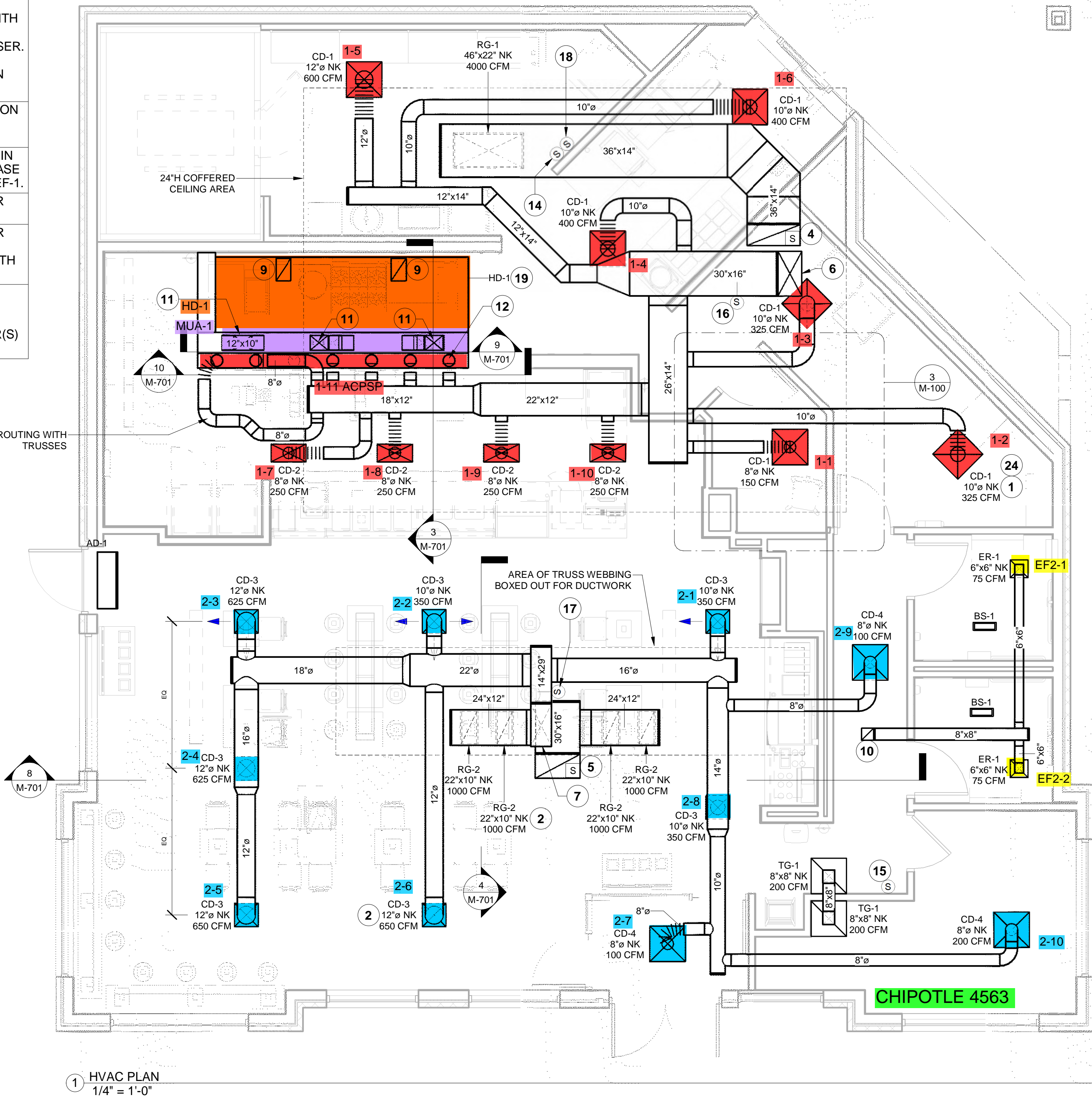
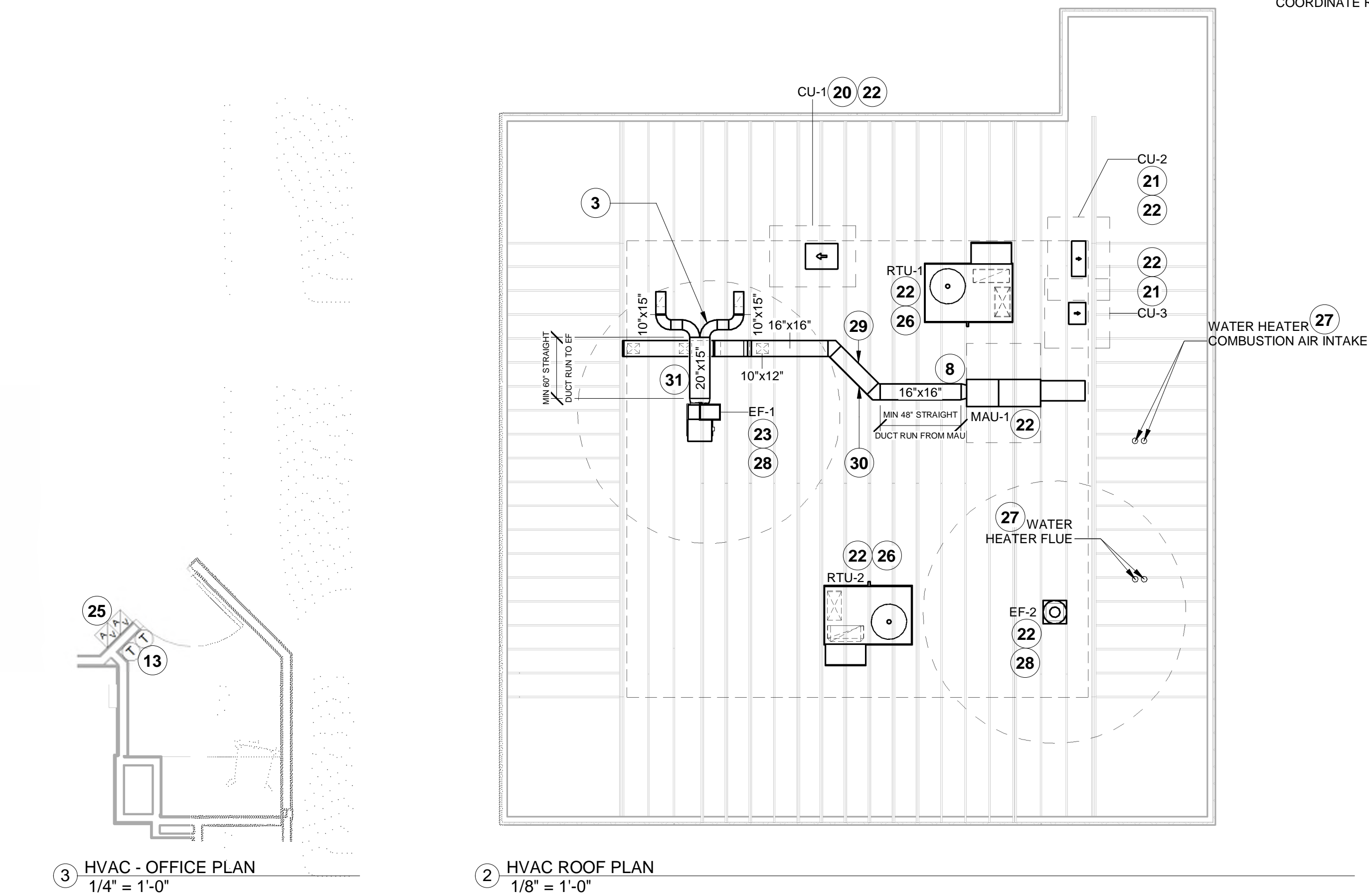
SHEET TITLE:
MECHANICAL SPECIFICATIONS, SYMBOLS, & GENERAL INFORMATION

SHEET NUMBER:
M-010

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
1	SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2	PAINT DUCTWORK VISIBLE THROUGH DINING ROOM AIR TERMINALS BLACK. TYPICAL.
3	PROVIDE TEE FITTING WITH RADIUS BACK AND RADIUS THROAT WHERE INDIVIDUAL EXHAUST RISERS CONVERGE AS SHOWN. THE CENTERLINE OF THE RADII SHALL BE EQUAL TO THE DUCT DIMENSION.
4	36/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE A FACTORY PROVIDED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5	30/16 DUCT UP, TRANSITION DUCT TO RTU-2 RETURN CONNECTION SIZE PRIOR TO PENETRATING ROOF. RTU-2 SHALL HAVE A FACTORY PROVIDED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6	30/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7	29/14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-2 SUPPLY CONNECTION IN ROOF CURB.
8	16/16 DUCT ABOVE ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION.
9	15/10 DUCT UP FROM HOOD THROUGH ROOF TO COMBINE WITH OTHER DUCT INTO ONE (1) 20/15 DUCT ABOVE ROOF TO EF-1 COMPLIANT WITH NFPA 96 AS SHOWN ON 2/M-100. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT. PROVIDE DUCT CLEANOUT ACCESS DOOR AT ALL CHANGES IN DIRECTION AND AT LINEAR INTERVALS PER LOCAL CODE.
10	8/8 DUCT UP THROUGH ROOF TO EF-2. SEE DETAIL 6/M-701.
11	12/10 DUCT DOWN THROUGH ROOF TO 28/10 MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3. SEE 9/M-701.
12	8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
13	INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL THERMOSTAT WITH CORRESPONDING UNIT.
14	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION AT 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
15	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION AT 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
16	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18	INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION AT 66" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL. LABEL SENSOR "HD-1".

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
19	INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 4/M-700, 2/M-701, AND 3/M-701. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20	INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
21	INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MACHINE IS EXPOSED TO PUBLIC VIEW, CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22	INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23	INSTALL EXHAUST FAN EF-1 PER DETAIL 8/M-700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN EF-1.
24	PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 6/M-700. TYPICAL.
25	PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. LABEL ANNUNCIATOR WITH CORRESPONDING UNIT. TYPICAL.
26	INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 5/M-700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
27	MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28	10'-0" MIN. CLEARANCE FROM OUTER EDGE OF EXHAUST FAN TO FRESH AIR INTAKES. TYPICAL.
29	ALL NON-GREASE DUCT INSTALLED ABOVE ROOF SHALL BE INSULATED AS DESCRIBED ON SHEET M-010, SECTION 15810, 2.1, G.
30	SUPPORT ALL EXPOSED DUCTWORK USING RPS (ROOF PRODUCTS & SYSTEMS) OR APPROVED EQUAL DUCT MOUNTING PEDESTALS INCLUDING RAIL BASE, GALVANIZED STEEL SLIDE CHANNEL, AND VERTICAL GALVANIZED ADJUSTMENT RODS. PROVIDE PROTECTIVE SADDLE FOR DUCTWORK PER MANUFACTURER'S RECOMMENDATIONS. HEIGHT OF DUCT ABOVE ROOF TO BE COORDINATED BETWEEN THE HVAC AND ROOFING CONTRACTORS PER ROOF MAINTENANCE REQUIREMENTS. TYPICAL ALL ABOVE ROOF, EXPOSED DUCTWORK. SEE 5/M-701.
31	PROVIDE VINYL JACKET AROUND EXTERIOR GREASE EXHAUST DUCT TO PROTECT FIREWRAP. INSTALL FLASHING AND CAULK ALL JOINTS AND SEAMS PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATE BID: PAINT EXTERIOR GREASE DUCTWORK TO PROVIDE ADEQUATE PROTECTION AGAINST THE ELEMENTS PER LOCAL CODE(S). CONFIRM WITH CHIPOTLE CM.



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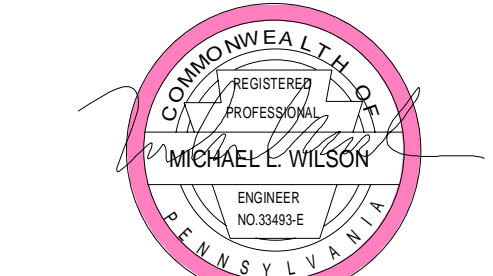


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REV. DATE	DESCRIPTION
2022.09.26	LANDLORD REVIEW
2022.10.12	PERMIT SET

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE: Anthony J. Scalamarone, P.E.

DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

22044

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-100

**HOOD SHOP DRAWING PRODUCED BY
MANUFACTURER - FOR REFERENCE ONLY**

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

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP VALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5651643

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISERS(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA				CFM	VEL	SP	END TO END
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	14' 3"	600 DEG	I	HEAVY	225	3200	15'	10'	4'	1600	1536	-0.854"	1950	798	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
1		CAPTRATE SOLID FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	LEFT	12"x54"x24"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1125 LBS

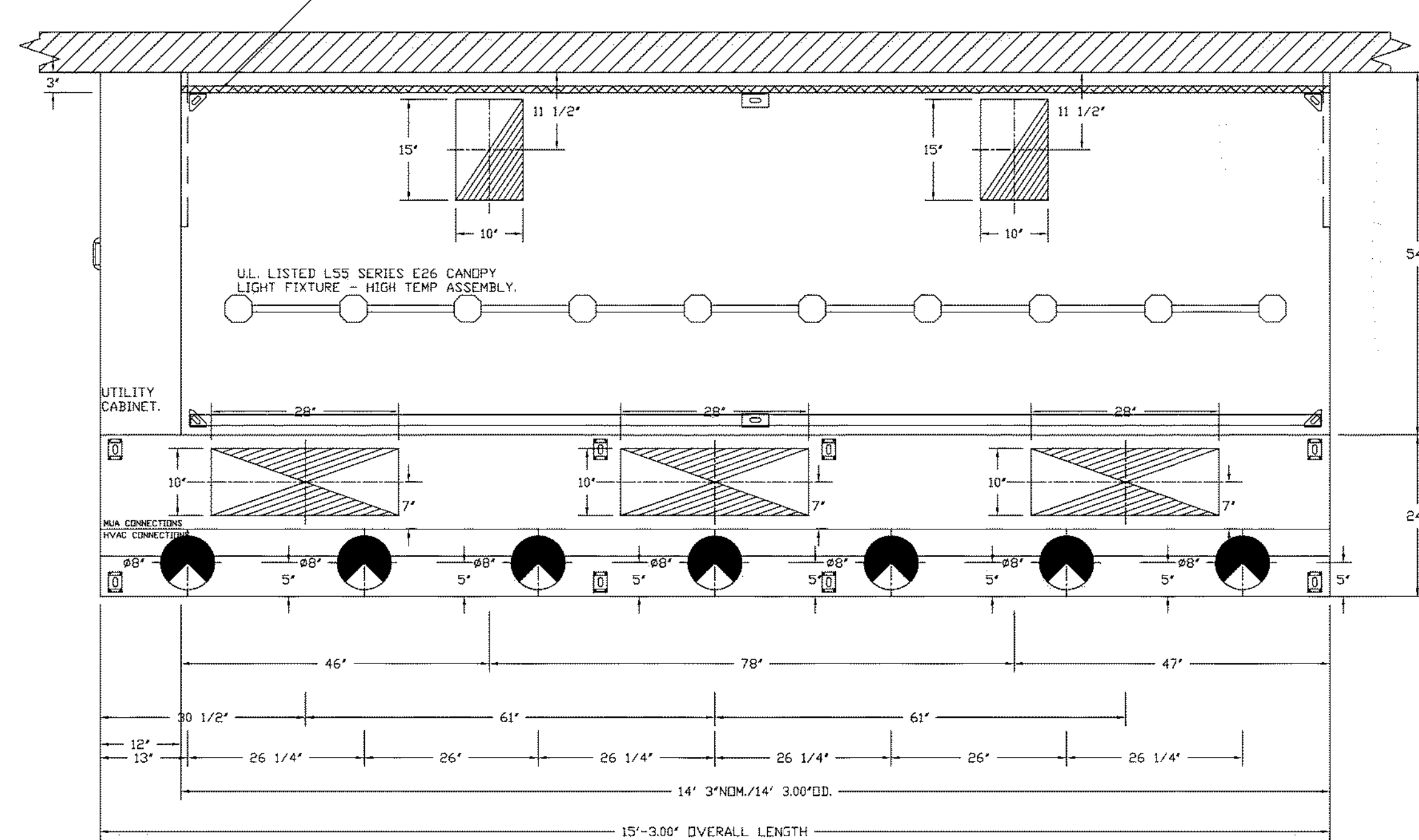
HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 20.00" HIGH FRONT, LEFT, RIGHT. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. INSULATION FOR BACK OF HOOD. FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISERS(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	183'	24'	6'	MUA	10"	28"		650	0.166"
						MUA	10"	28"		650	0.166"
						MUA	10"	28"		650	0.166"
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	

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

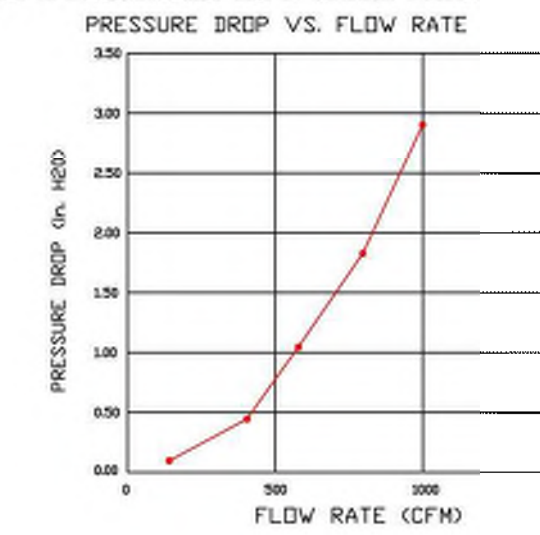
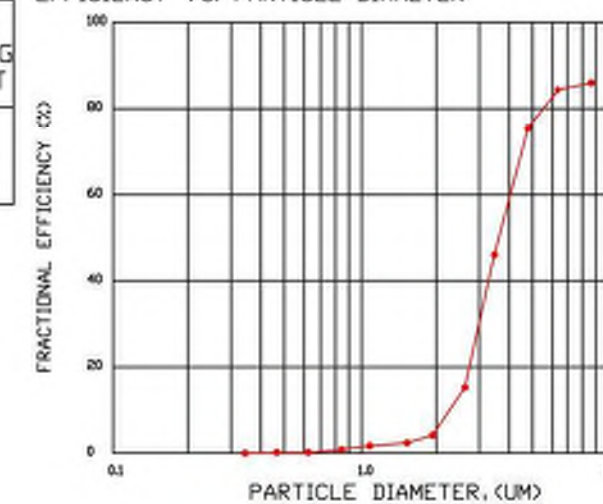


PLAN VIEW - HOOD #1
14' 3.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 18" AND LONGER.

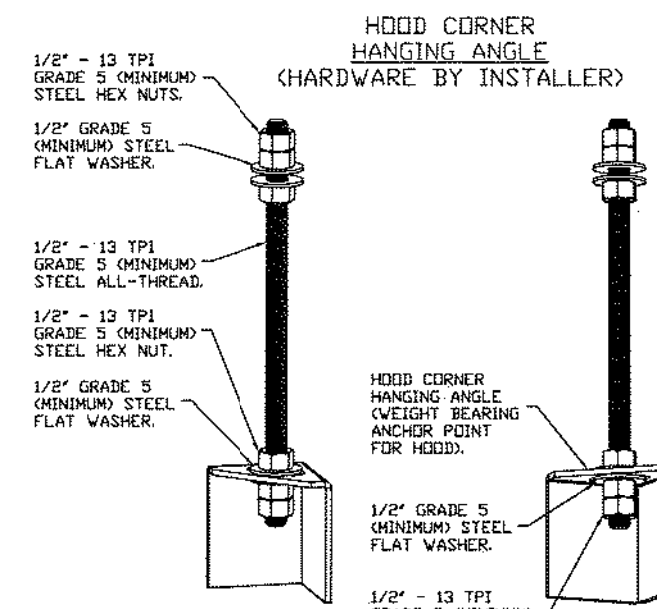
ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. EFFICIENCY VS. PARTICLE DIAMETER

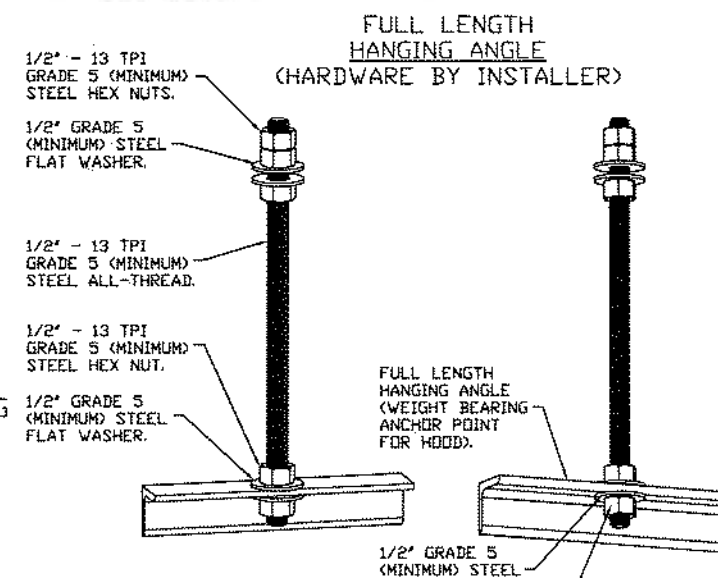


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96,
NSF STANDARD #2,
UL STANDARD H1046,
INT. MECH. CODE (IMC),
ULC-S649.



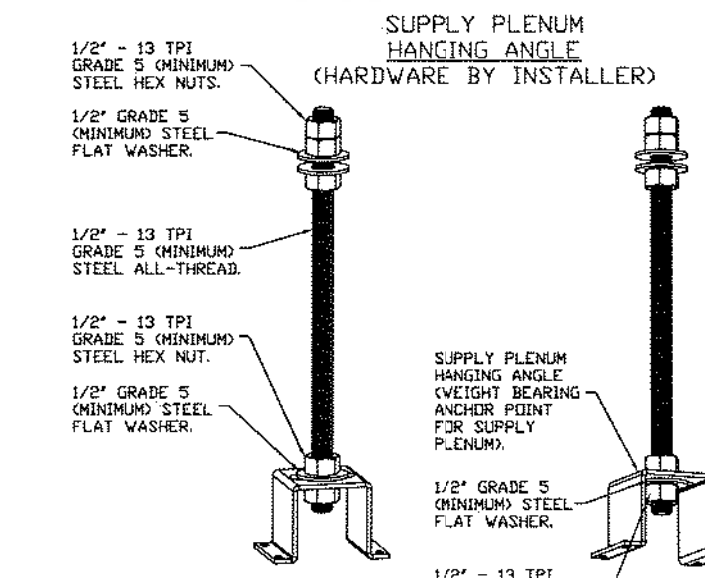
ASSEMBLY INSTRUCTIONS

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.



ASSEMBLY INSTRUCTIONS

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



ASSEMBLY INSTRUCTIONS

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

REVISIONS

NO.	DESCRIPTION	DATE



CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022

DWG.#: 5651643

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 1

Consultant:



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Moorestown, NJ 08057
(856) 778-5400

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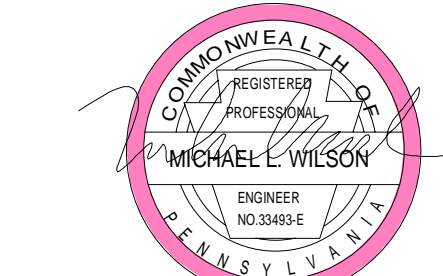


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19006

REV. DATE DESCRIPTION
2022.09.26 LANDLORD REVIEW
2022.10.12 PERMIT SET

PROFESSIONAL SEAL



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PA License #FE-033493-E

PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.

DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

22044

SHEET TITLE:

CAPTIVEAIRE

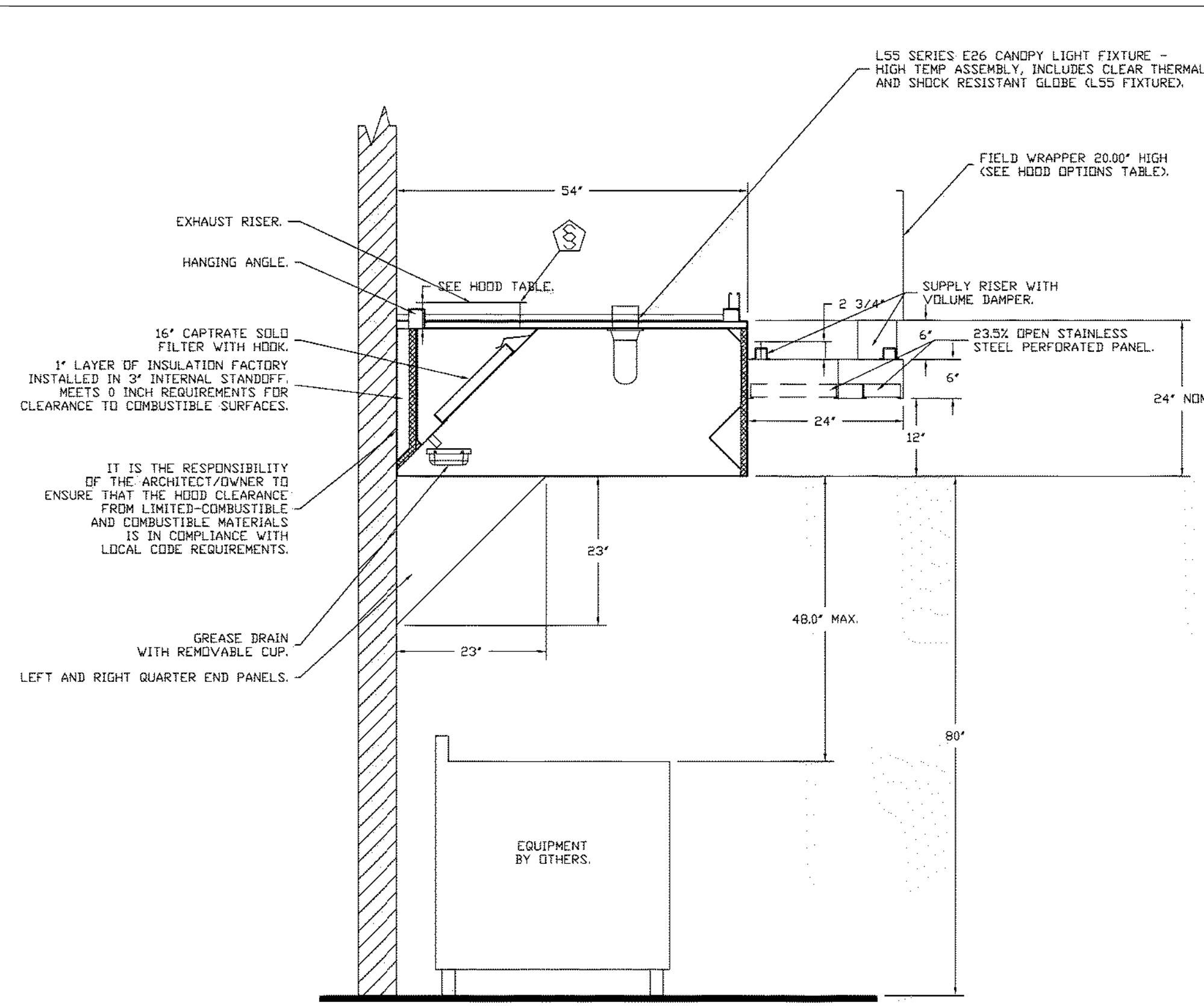
DRAWINGS

SHEET NUMBER:

M-401

2022-DB#3/P#1-4

HOOD SHOP DRAWING PRODUCED BY
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SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1

FIRE SYSTEM INFORMATION - JOB#5651643

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0	13	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	1.500	CAPTIVEAIRE SYSTEMS

REVISIONS	
DESCRIPTION	DATE

CAPTIVEAIRE
Highwoods Group
www.captiveaire.com
4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0577 FAX: (919) 875-0420 EMAIL: rsg@0@captiveaire.com

CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022

DWG.#:
5651643

DRAWN BY: JMB-40

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

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PA License #PE-033493-E

PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.

DRAWN BY: PCE
CHECKED BY: AIS

PROJECT NUMBER:
22044

SHEET TITLE:

CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:

M-402

**HOOD SHOP DRAWING PRODUCED BY
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SECTION 23 38 13 13

SPECIFICATIONS
TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods
PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 600°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
 - 1. Exhaust Hood Without Exhaust Damper.*
 - 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 - 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
 - 1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

- A. Construction shall be type 430 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. L55 Series canopy light fixture, includes clear thermal and shock resistant globe.

2.4 FILTERS

- A. Stainless Steel Captrate Solo filter with hook, ETL Listed Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

- A. Fire Suppression System: UL 300 fire suppression system.
- B. Optional perforated supply plenum shall provide make-up air discharged below the cooking equipment.
 - 1. Perforated diffuser plates shall be included in the design to provide even air distribution.
 - 2. Unexposed surfaces shall be constructed of aluminized steel. Plenum shall be insulated to prevent condensation.
 - 3. Dual Plenum (AC-PSP)
- C. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

- A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:
 - 1. Quarter End Panel
- B. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
 - 1. Wrapper
- C. Miscellaneous option(s) selected:
 - 1. Full Dimension Hanging Bracket - Unistrut added to allow for various hood mounting locations.
 - 2. Insulation for Back of Hood - Backside of hood is fully insulated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been

corrected in a manner acceptable to Installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

REVISIONS	
DESCRIPTION	DATE



CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022
DWG.#: 5651643
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 3

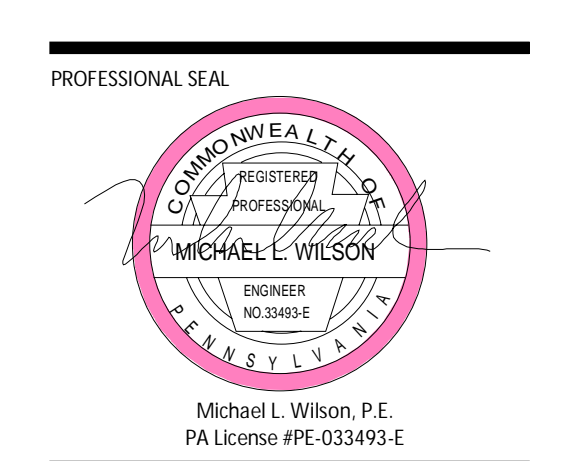
Consultant:
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Consulting Engineers, PC
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19006

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PROJECT NUMBER:
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SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:
M-403

2022-DB#3/P#1-4

**HOOD SHOP DRAWING PRODUCED BY
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EXHAUST FAN INFORMATION - JOB#5651643

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	USB18DD-RM	CAPTIVEAIRE	3200	1.500	1331	DDP, PREMIUM	3.000	1.3850	3	208	9.5	1640 FPM	423	21
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1282	TEAD-ECM	0.250	0.0930	1	115	2.9		49	6.1

MUA FAN INFORMATION - JOB#5651643

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SONES
3	MAU-1	1	A1-D.250-1SD	ISMF-1-MOD	A1-D.250	1000	1950	0.450	2017	DDP, PREMIUM	2.000	1.3100	3	208	6.1	7.7A	15A	500	19.7

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUS	OUTPUT BTUS	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU-1	132561	121956	59°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN #1 USB18DD-RM - EXHAUST FAN (EF-1)

FAN OPTIONS

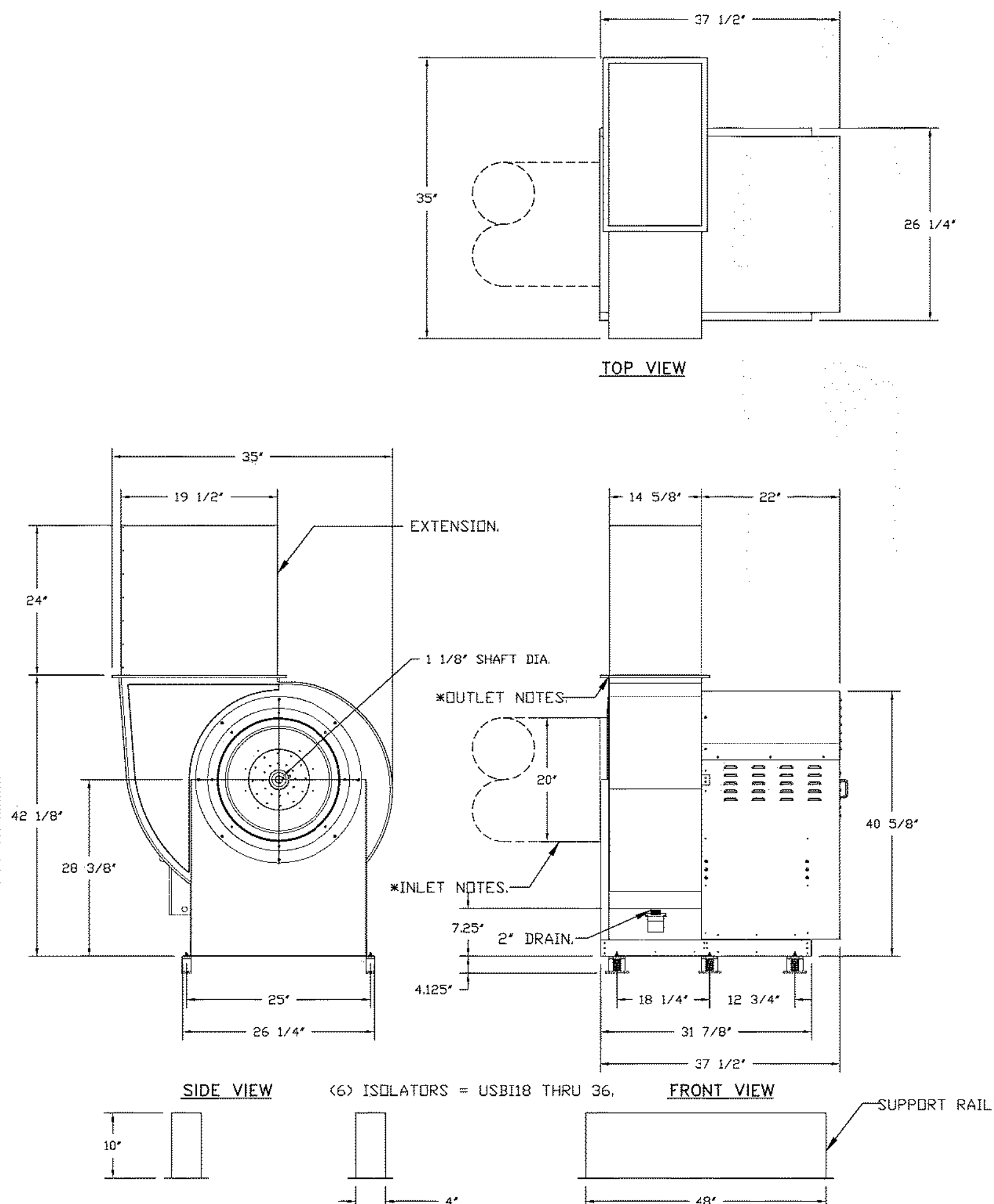
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	B118 - INLET SERVICE DUCT CONNECTION USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	B118 - 24" DISCHARGE EXTENSION
		1	B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B118 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT
2	EF-2	1	UTILITY SET - SPRING VIBRATION ISOLATORS - B118 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE
		1	2 YEAR PARTS WARRANTY
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	25 LBS	RAIL	4.000"W X 48.000"L X 10.000"H ALONG WIDTH, RIGHT COMES AS A SET OF 2.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H ALONG LENGTH, RIGHT.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.



FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

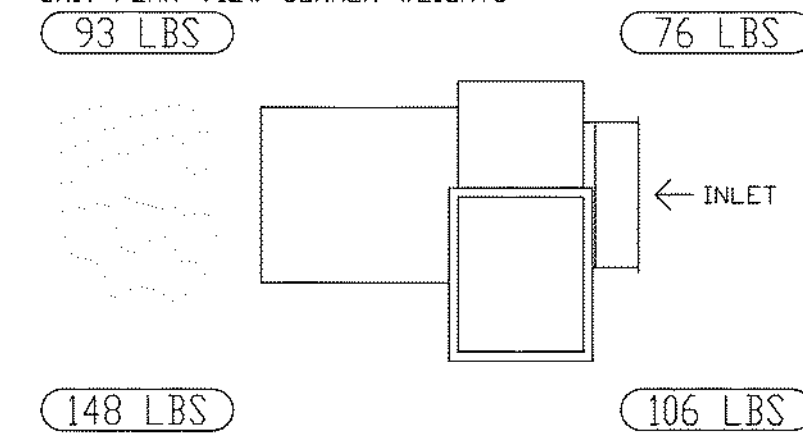
OPTIONS

- B118 - INLET SERVICE DUCT CONNECTION USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- B118 - 24" DISCHARGE EXTENSION.
- B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- B118 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
- UTILITY SET - SPRING VIBRATION ISOLATORS - B118 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.

* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

*NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

UNIT PLAN VIEW CORNER WEIGHTS:



CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

REVISIONS

NO	DESCRIPTION	DATE



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SHEET NO.
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Consulting Engineers, PC
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2090 COUNTY LINE RD
HUNTINGDON VALLEY, PA
19006

REV. DATE DESCRIPTION
2022.09.26 LANDLORD REVIEW
2022.10.12 PERMIT SET



PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.

DRAWN BY: PCE
CHECKED BY: AIS
PROJECT NUMBER:
22044

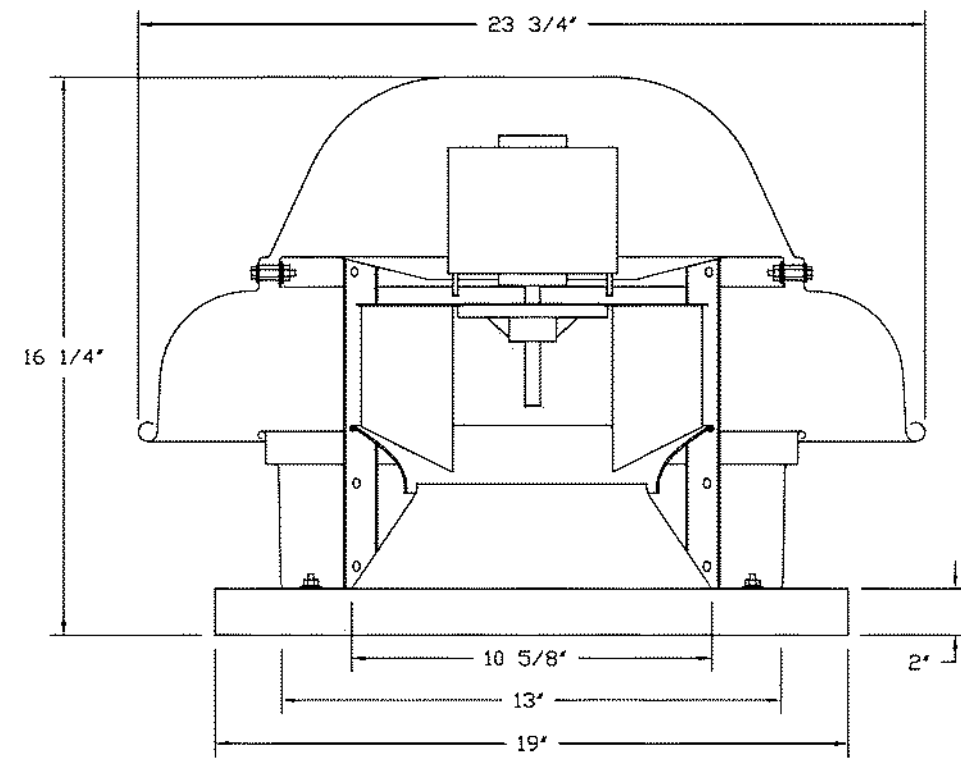
SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:
M-404

2022-DB#3/P#1-4

HOOD SHOP DRAWING PRODUCED BY
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FAN #2 DR12HFA - EXHAUST FAN (CF-2)

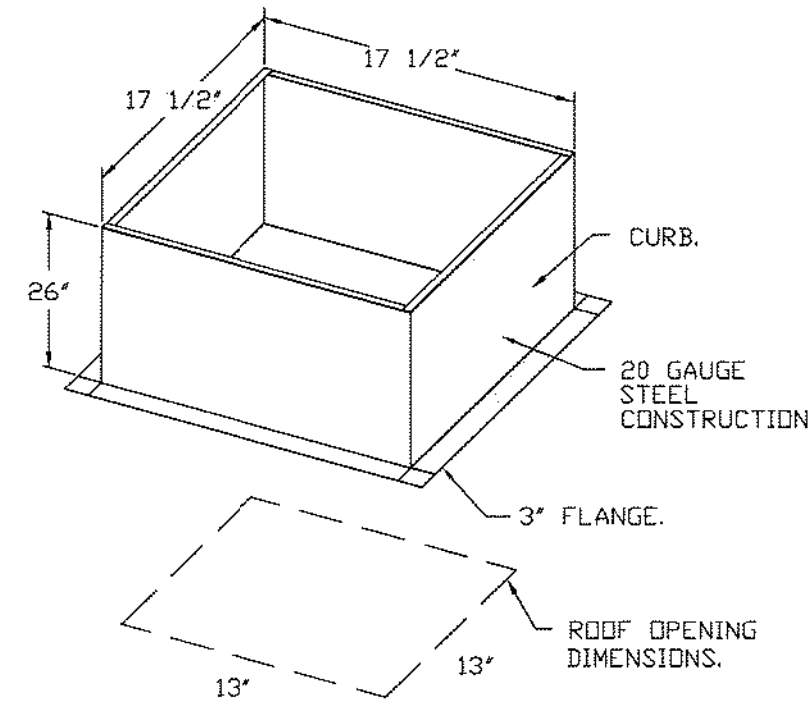


FEATURES:

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

OPTIONS

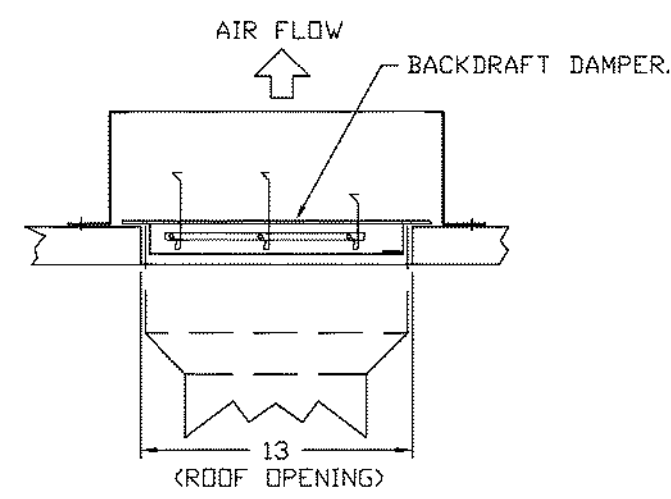
- 1 1/2\"/>



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

BACKDRAFT DAMPER INSTALLATION



TOP VIEW

REVISIONS	
NO.	DESCRIPTION

CAPTIVE
Highwoods Group
www.captiveaire.com
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CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022
DWG.#: 5651643
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
5

Consultant:
Polaris
Consulting Engineers, PC
214 W. Main Street, Suite 208
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(856) 778-5400

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DRAWN BY: PCE
CHECKED BY: AIS
PROJECT NUMBER:
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SHEET TITLE:
**CAPTIVEAIRE
DRAWINGS**

SHEET NUMBER:
M-405

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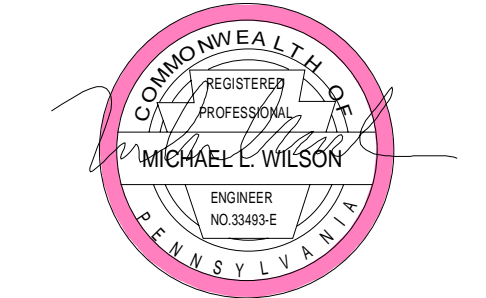


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2090 COUNTY LINE RD
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2022.09.26 LANDLORD REVIEW
2022.10.12 PERMIT SET

PROFESSIONAL SEAL



Michael L. Wilson, P.E.
PA License #PE-033493-E

PROFESSIONAL IN CHARGE: Anthony J. Scalamandre, P.E.

DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

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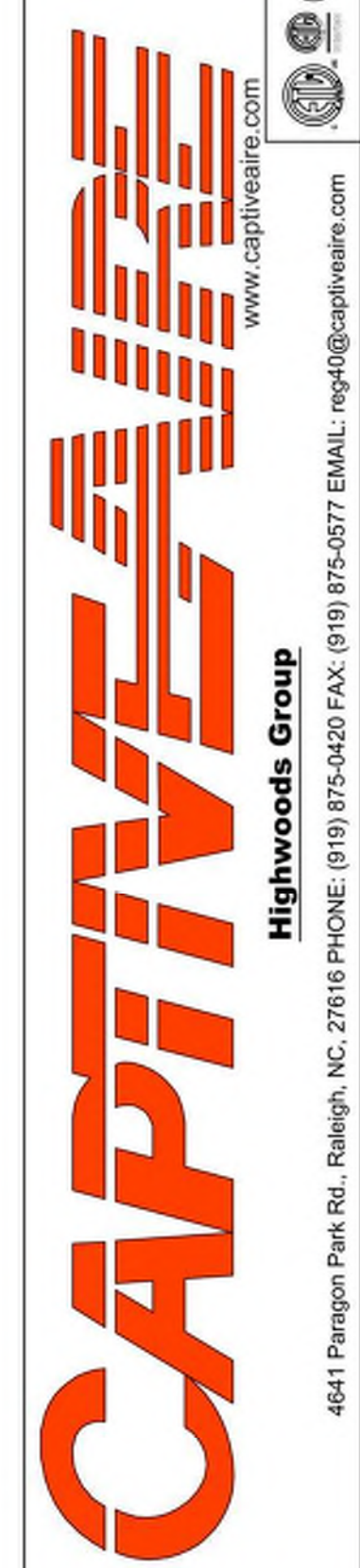
SHEET TITLE:

CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:

M-406

REVISIONS	
DESCRIPTION	DATE



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CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022

DWG.#:
5651643

DRAWN BY:
JMB-40

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

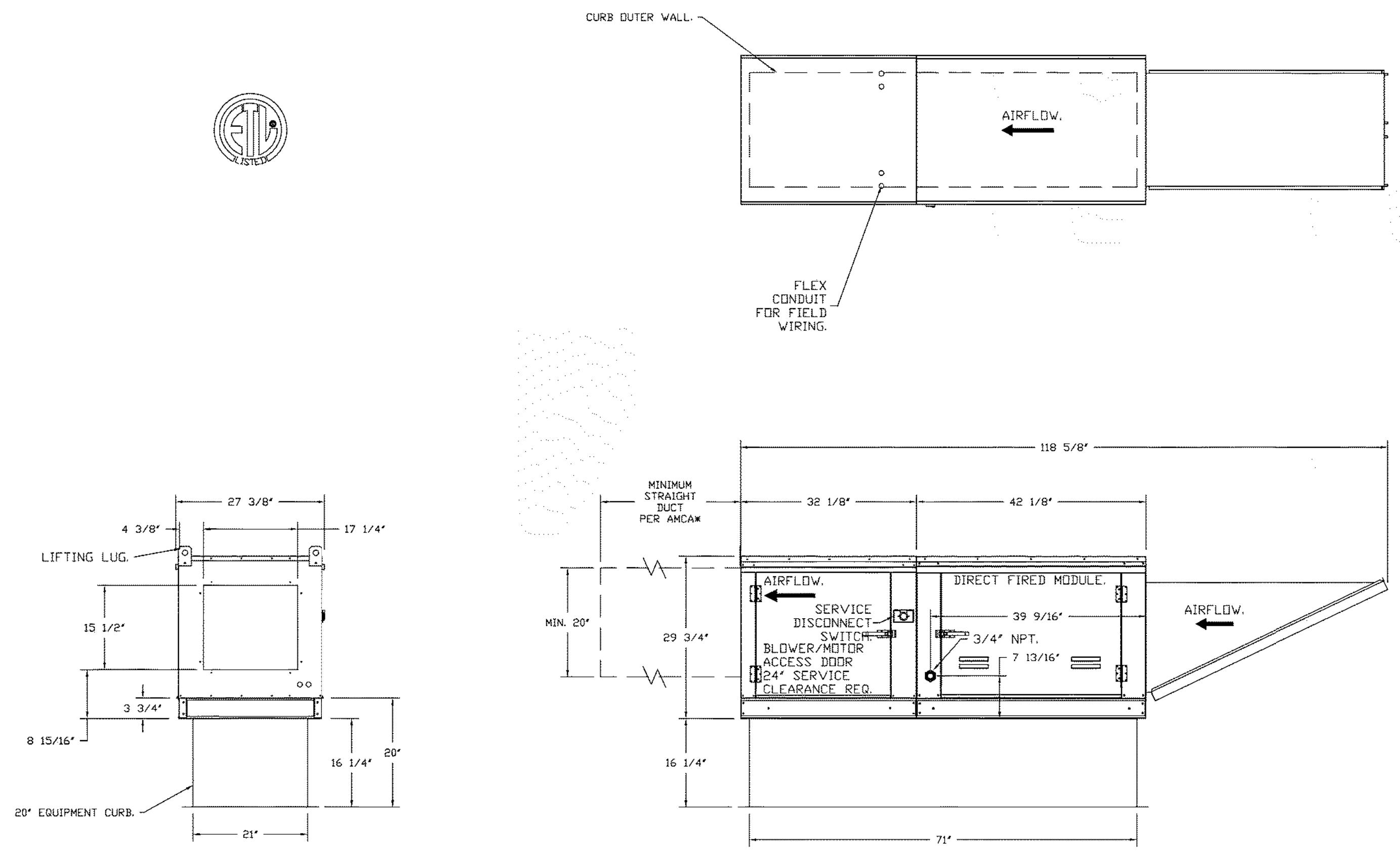
MASTER DRAWING

SHEET NO.
6

- FAN #3 AI-D250-1SD - HEATER (MAU-1)
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' MIXED FLOW DIRECT DRIVE FAN.
- INTAKE HOOD WITH EZ FILTERS.
- SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
- 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.
- MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS V/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, 1FBI20S ACTUATOR INCLUDED.
- LOW FIRE START: ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- 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.
- HINGED DOUBLE WALL INSULATED DDDR ASSEMBLY (BURNER/BLOWER SECTION).
- 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 20" x 20".

SUPPLY SIDE HEATER INFORMATION:
WINTER TEMPERATURE = 16°F. TEMP. RISE = 59°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 182913.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 153601.
OUTPUT BTUs AT ALTITUDE OF 216 FT. = 181956.
INPUT BTUs AT ALTITUDE OF 216 FT. = 138561.

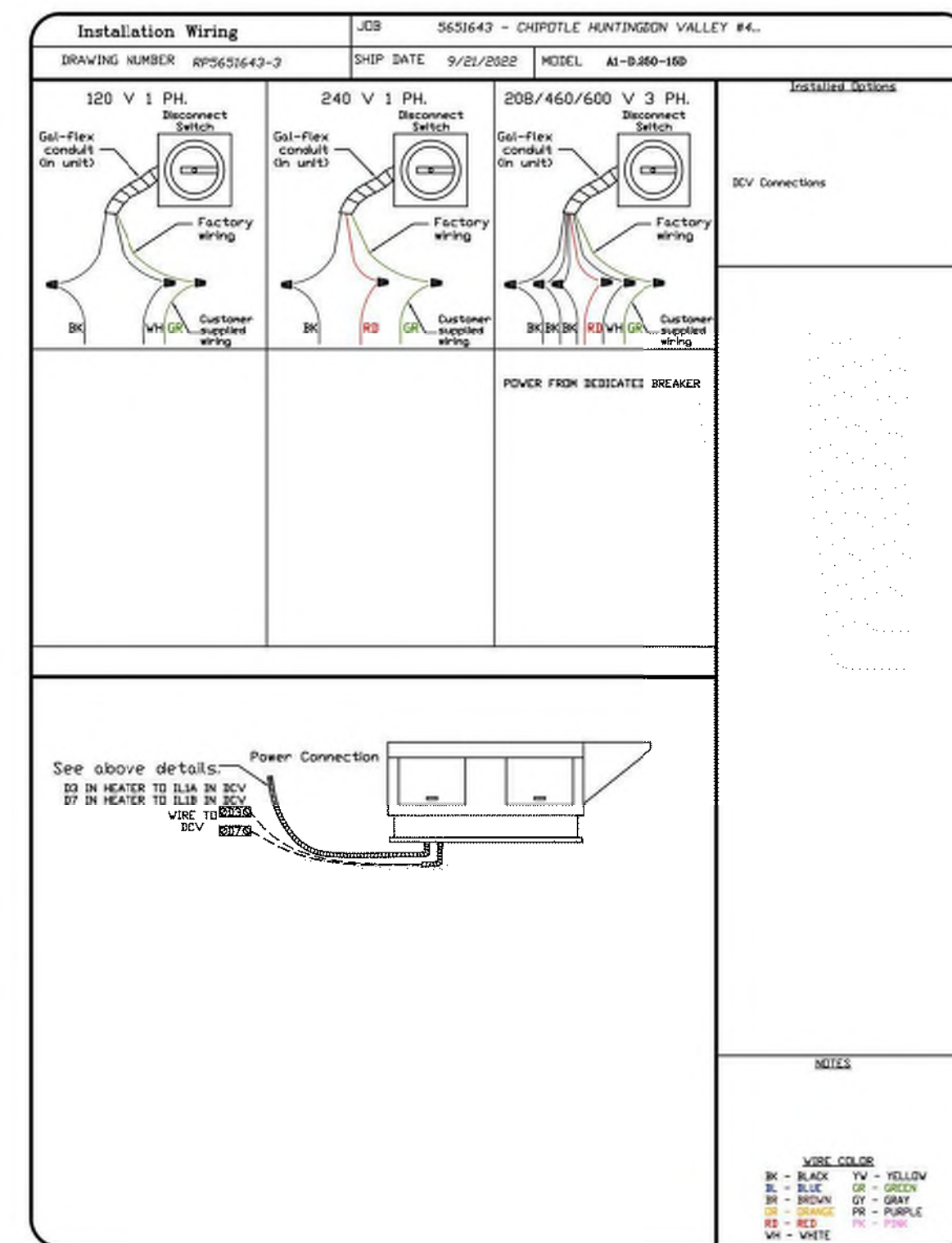
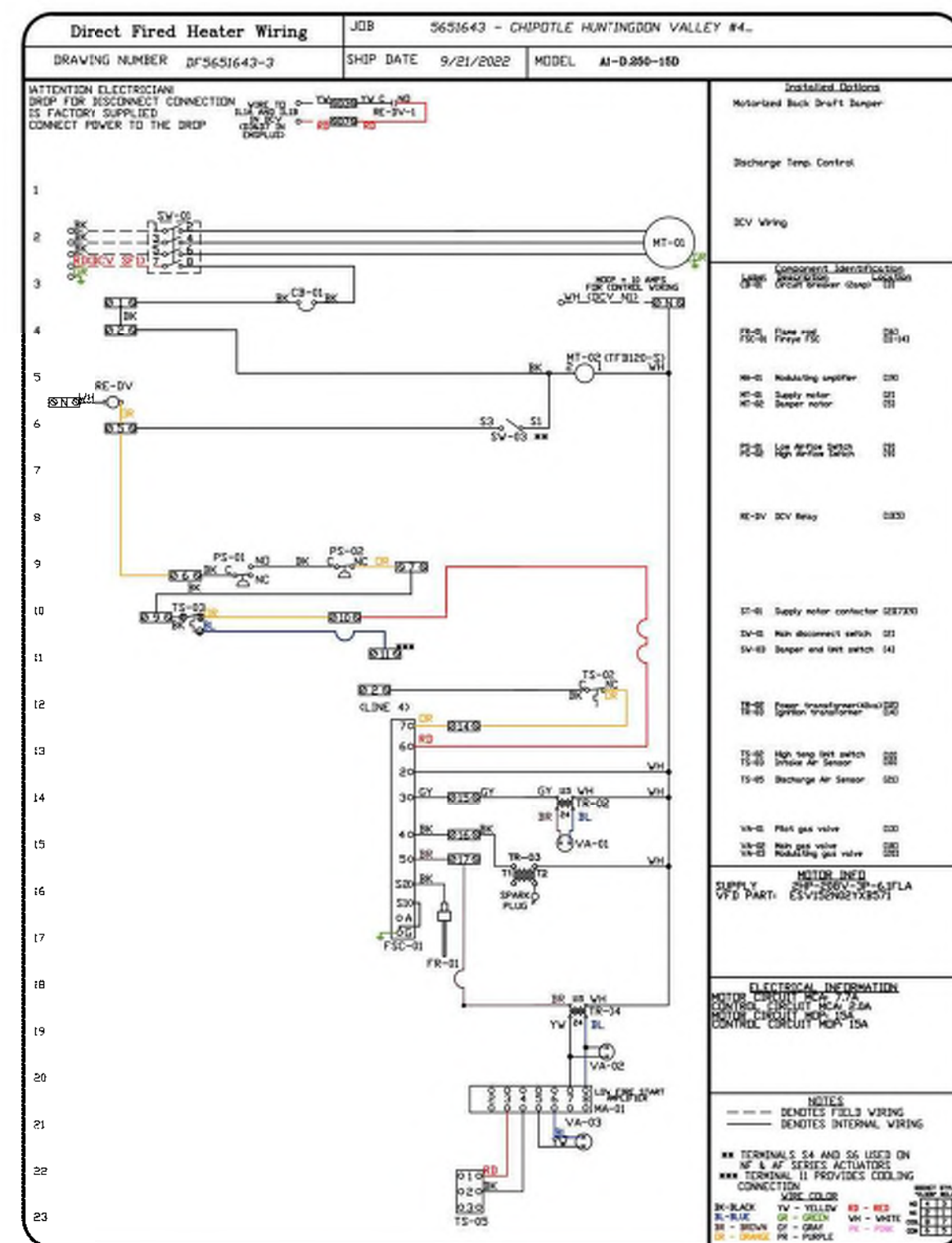
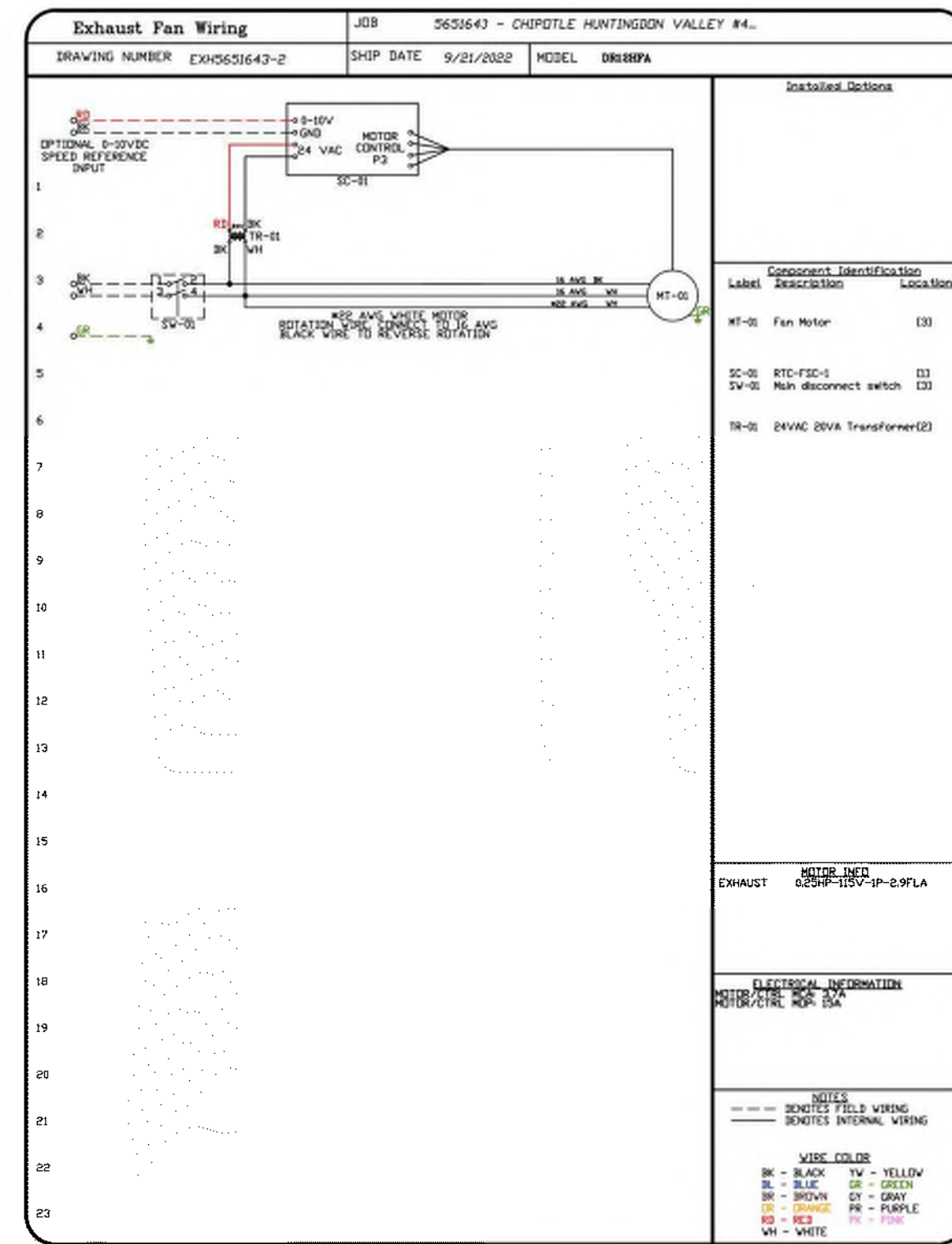
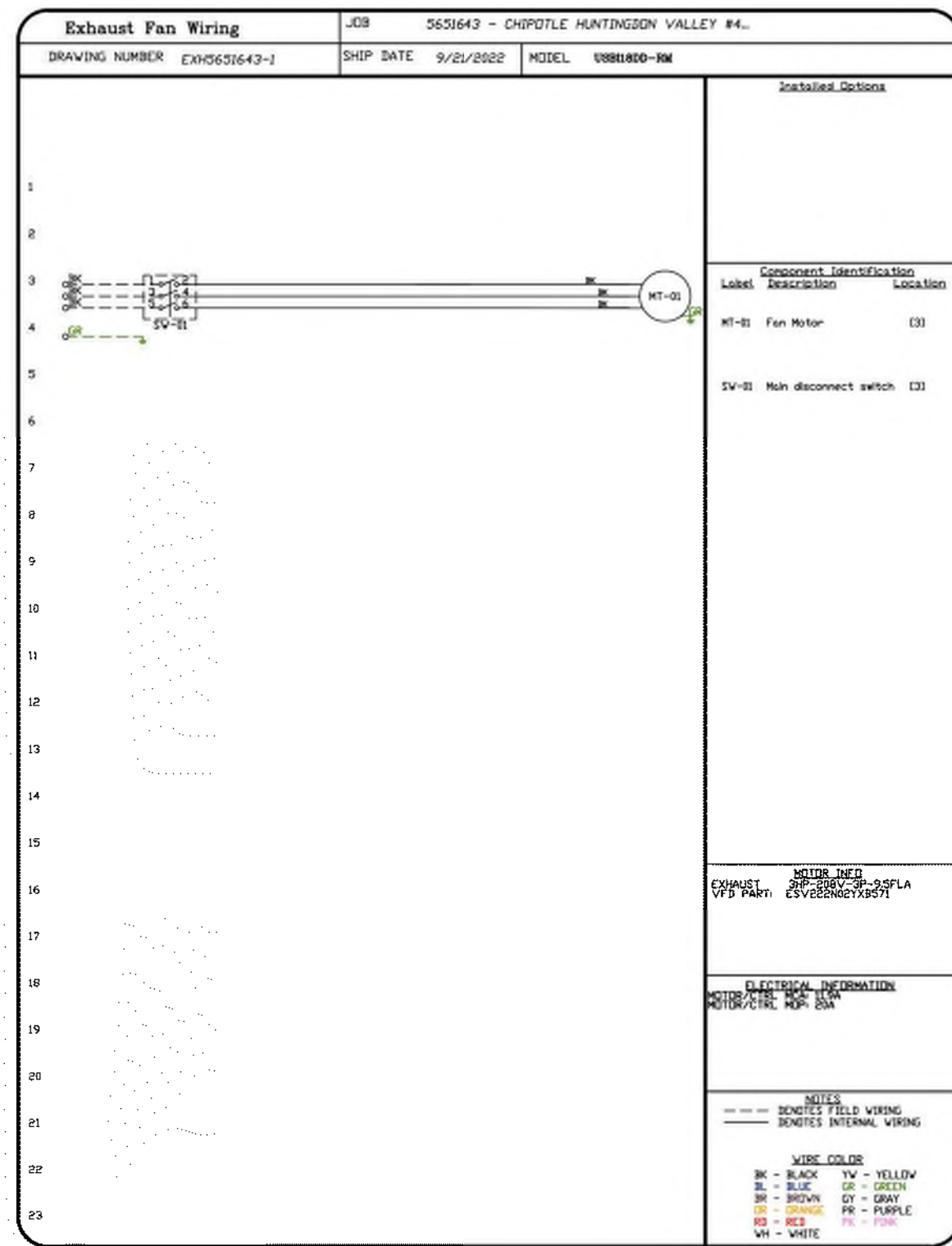


DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED GAS PATENT NO. US6625030, 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 50PPM OF CARBON MONOXIDE (CO), AND 45PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONSIDERED 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 MANUAL OR MECHANICAL ADJUSTMENT. 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 OF HEATERS) AND ANSI Z83.8 (RECIRCULATING OF HEATERS).
GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM 60S 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 TOLERED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

2022-DB#3/P#1-4

HOOD SHOP DRAWING PRODUCED BY
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REVISIONS	
DESCRIPTION	DATE

Highwoods Group
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CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

DATE: 9/21/2022
DWG.#: 5651643
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
7

Consultant:
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PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.
DRAWN BY: PCE
CHECKED BY: AIS
PROJECT NUMBER:
22044

SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:
M-407

2022-DB#3/P#1-4

HOOD SHOP DRAWING PRODUCED BY
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PROJECT NUMBER:
22044

SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:
M-408

REVISIONS	
NO.	DESCRIPTION

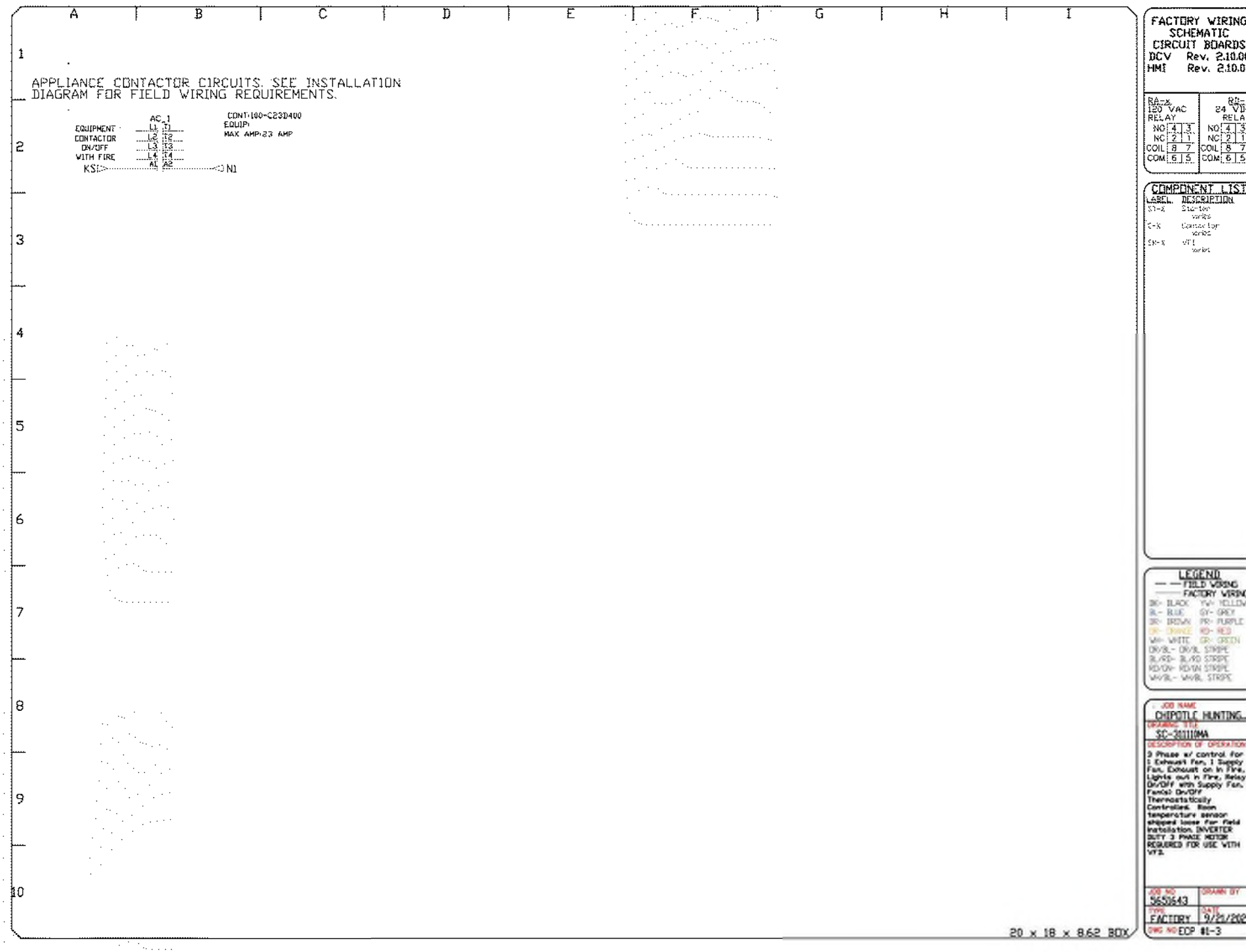
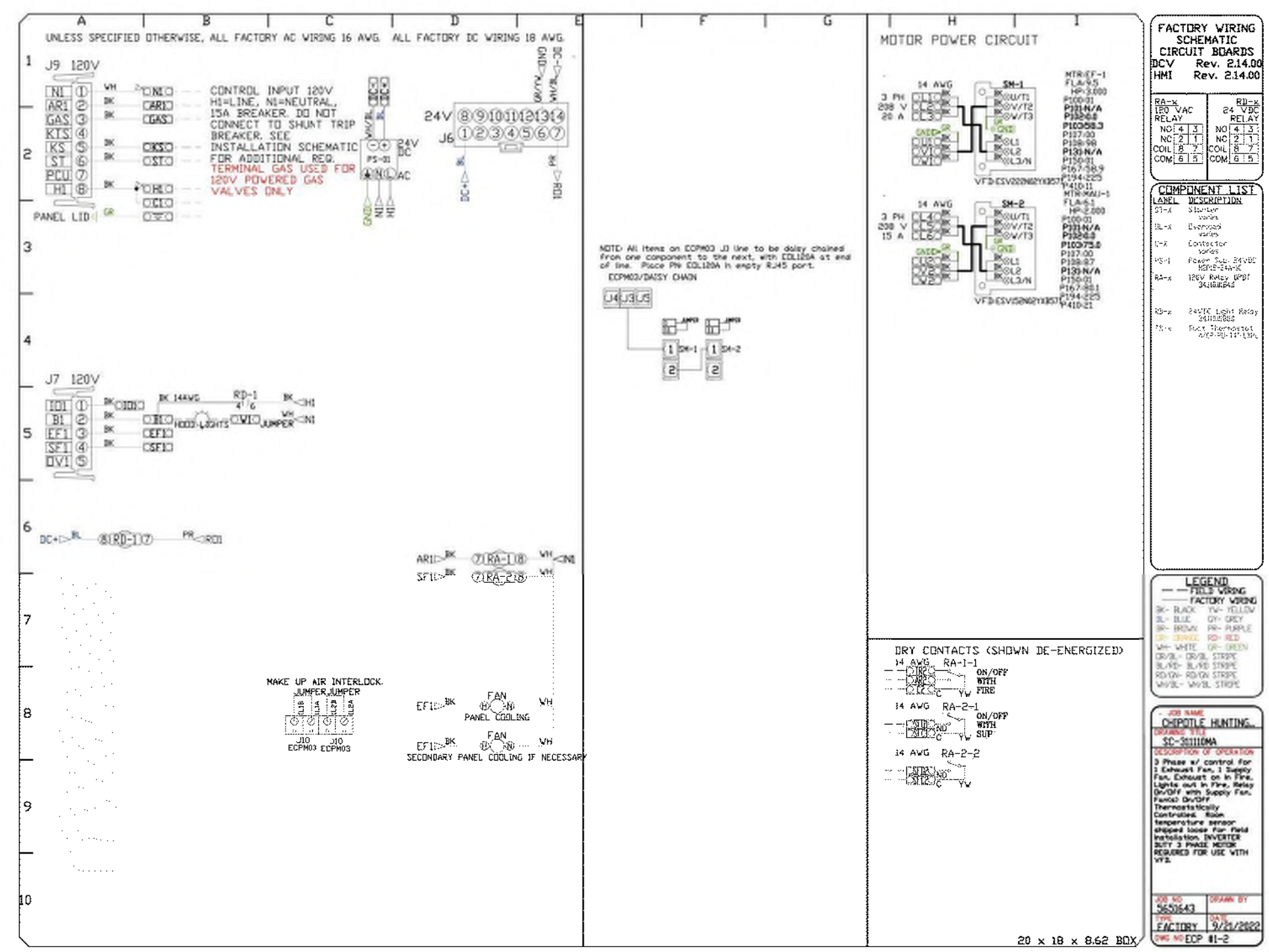
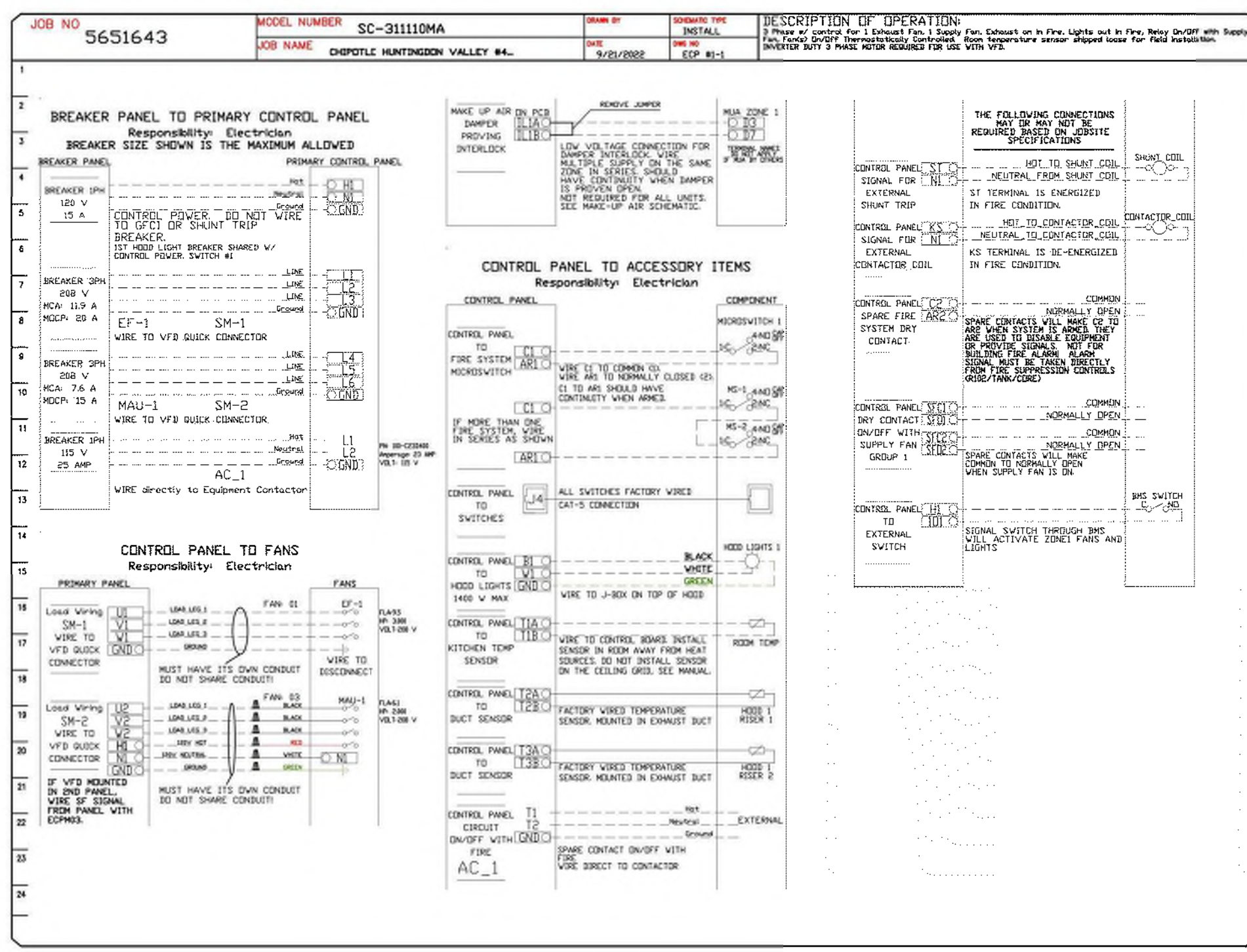


CHIPOTLE HUNTINGDON VALLEY #4563 rev 9-21
HUNTINGDON VALLEY, PA, 19006

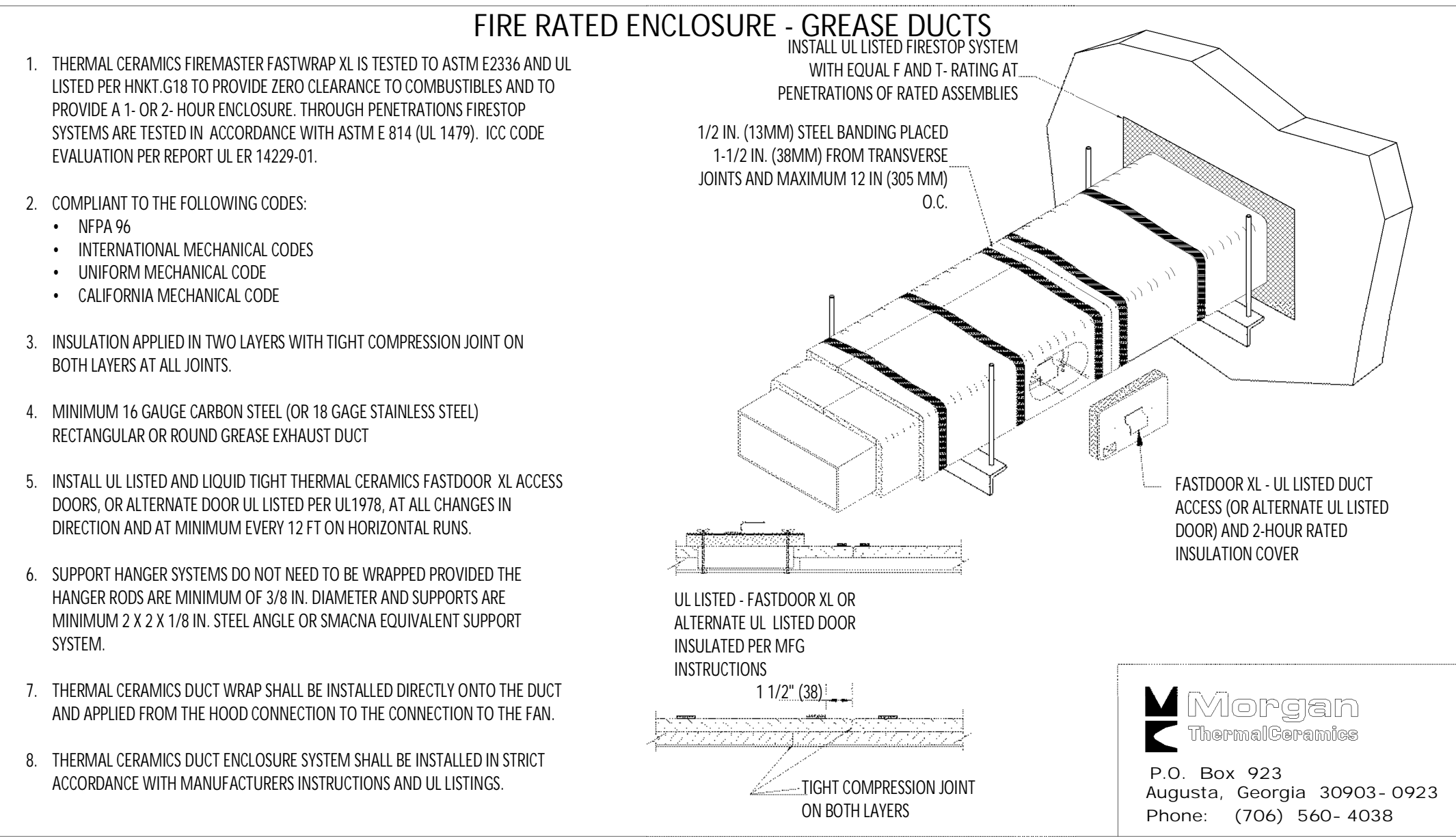
DATE: 9/21/2022
DWG.#: 5651643
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
8

ELECTRICAL PACKAGE - JOB#5651643												
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTIN	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLTS	FLA
1		SC-31110MA	UTILITY CABINET LEFT	02 - UTILITY CABINET LEFT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	3,000	208	9.5



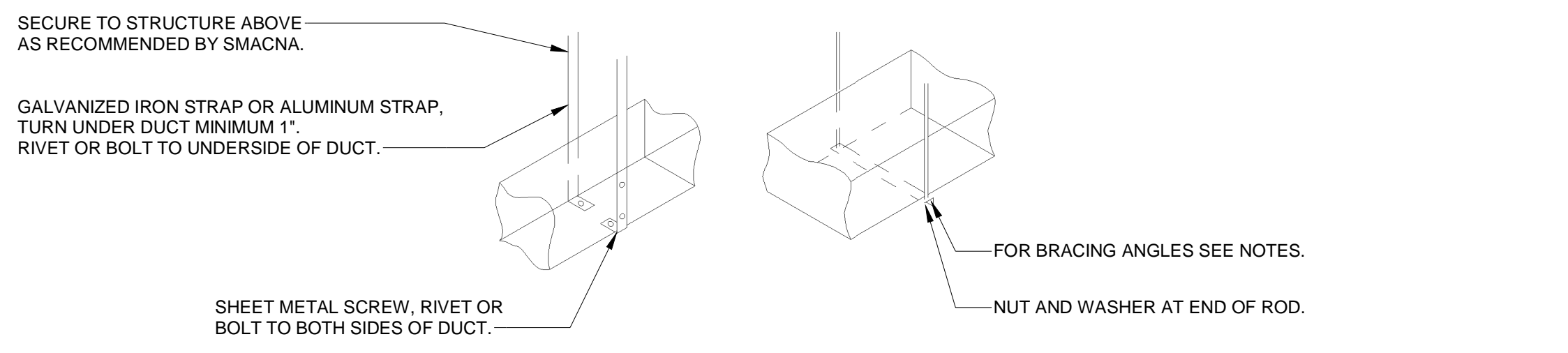
2022-DB#3/P#1-4



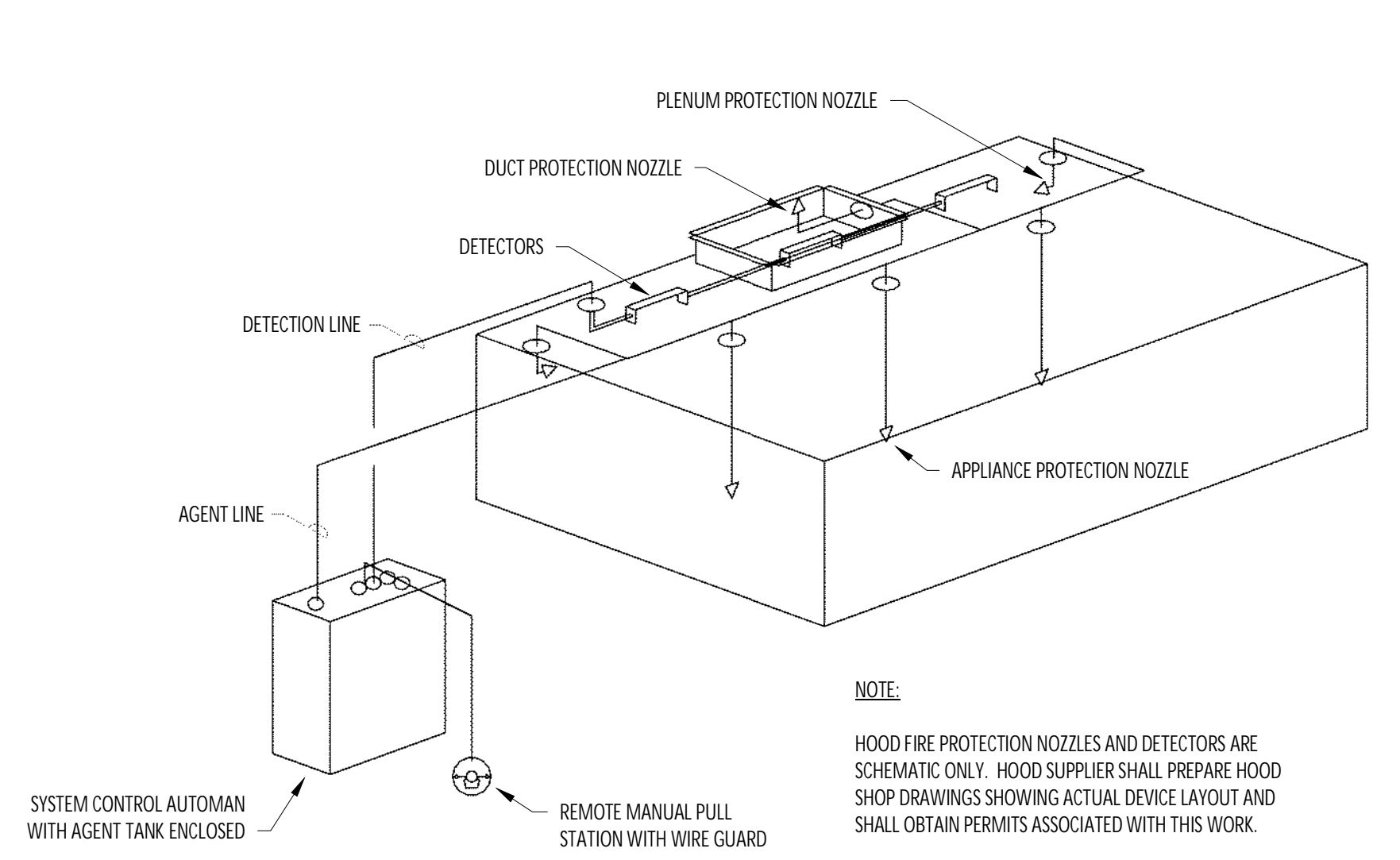
① FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

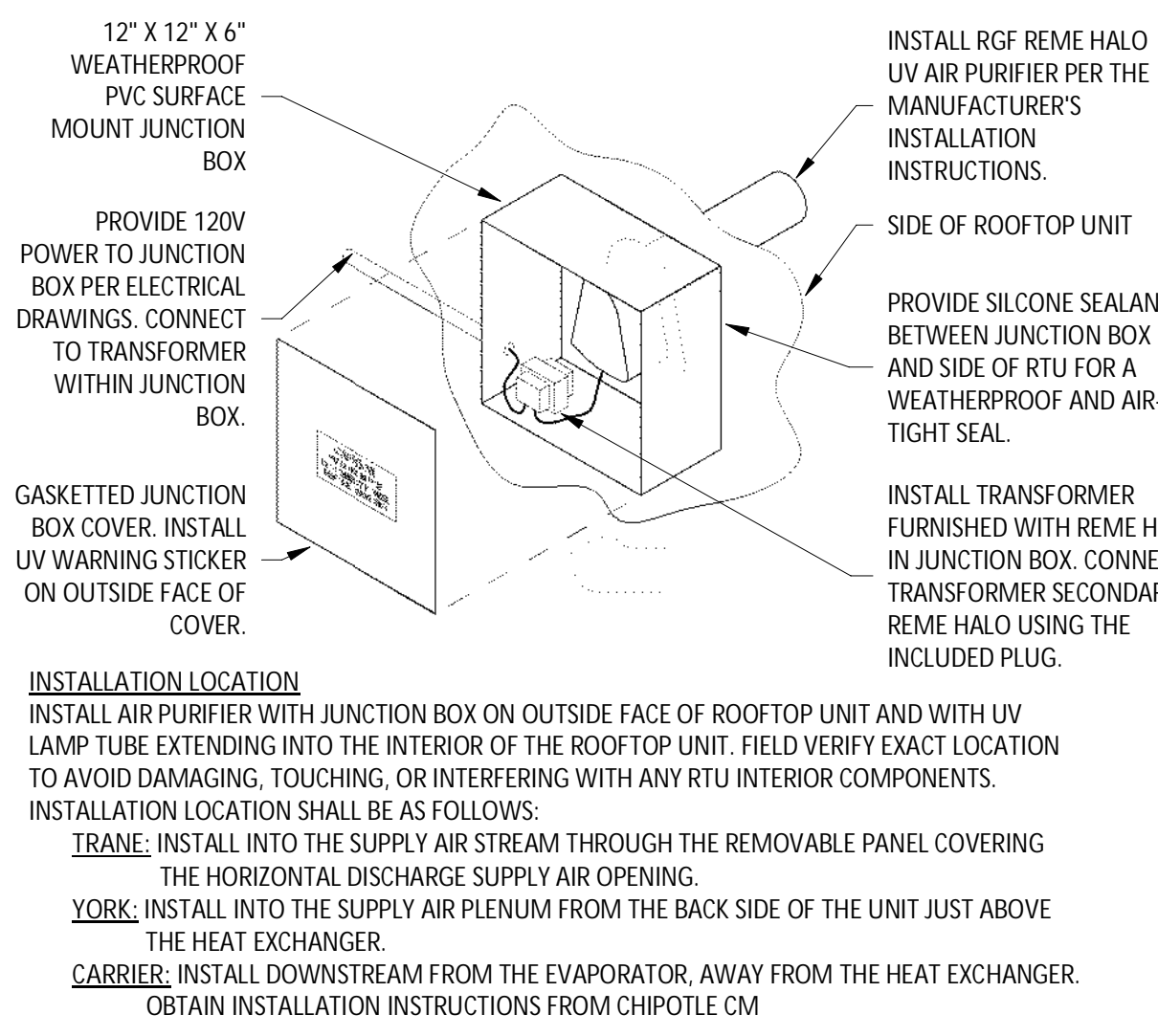
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30'	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	12 GA. (0.106")	1"X22 GA.	12 GA. (0.106")
P/2<72"	1"X18 GA.	3/8"	1"X20 GA.	1/4"	1"X22 GA.	1/4"	1"X22 GA.	1/4"
P/2<96"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	3/8"	1"X22 GA.	1/4"
P/2<120"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	1/4"
P/2<168"	1-1/2"X16 GA.	1/2"	1"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"
P/2<192"	-	1/2"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X16 GA.	3/8"



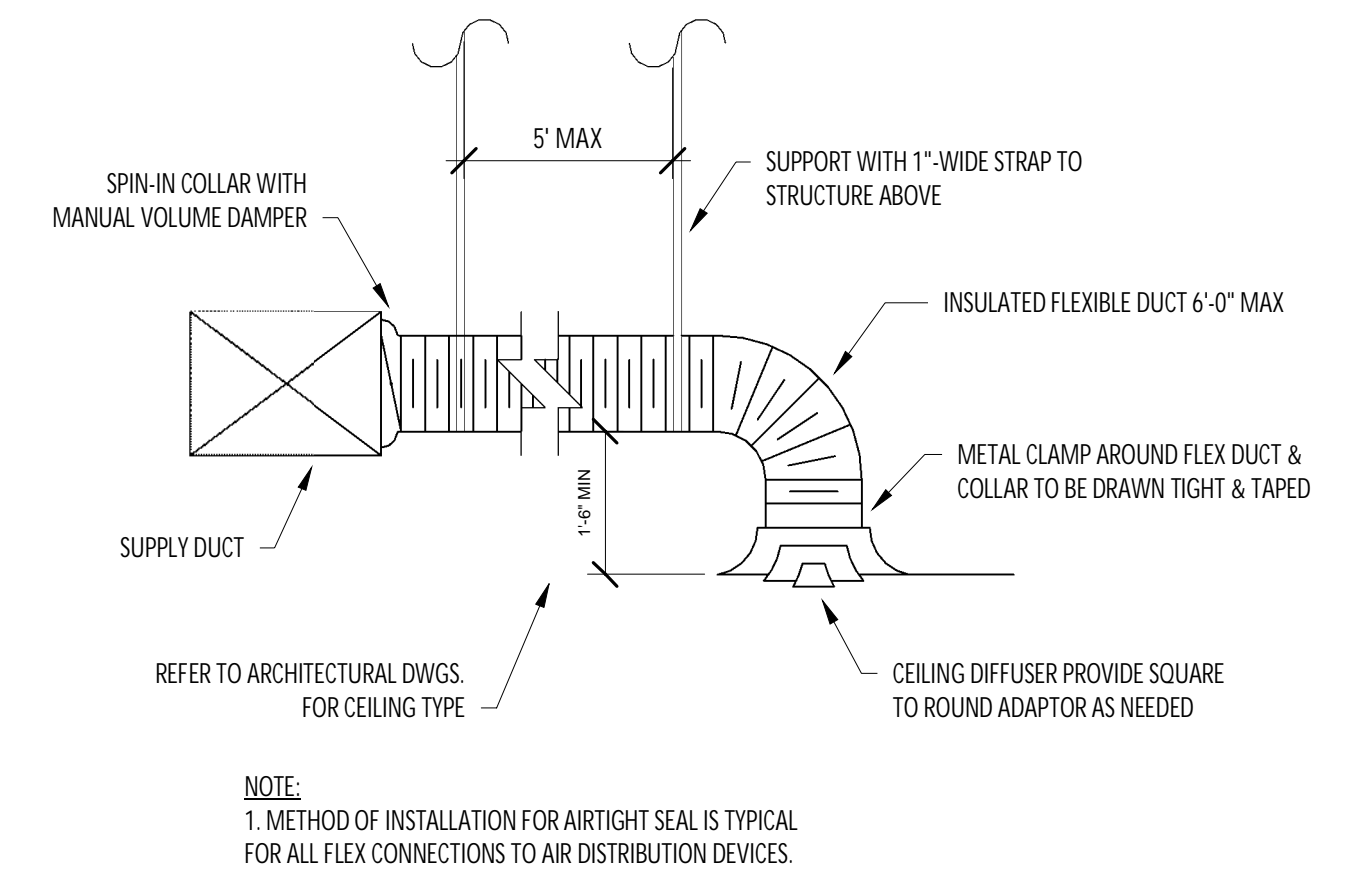
③ HVAC - DUCT HANGER DETAILS
NOT TO SCALE



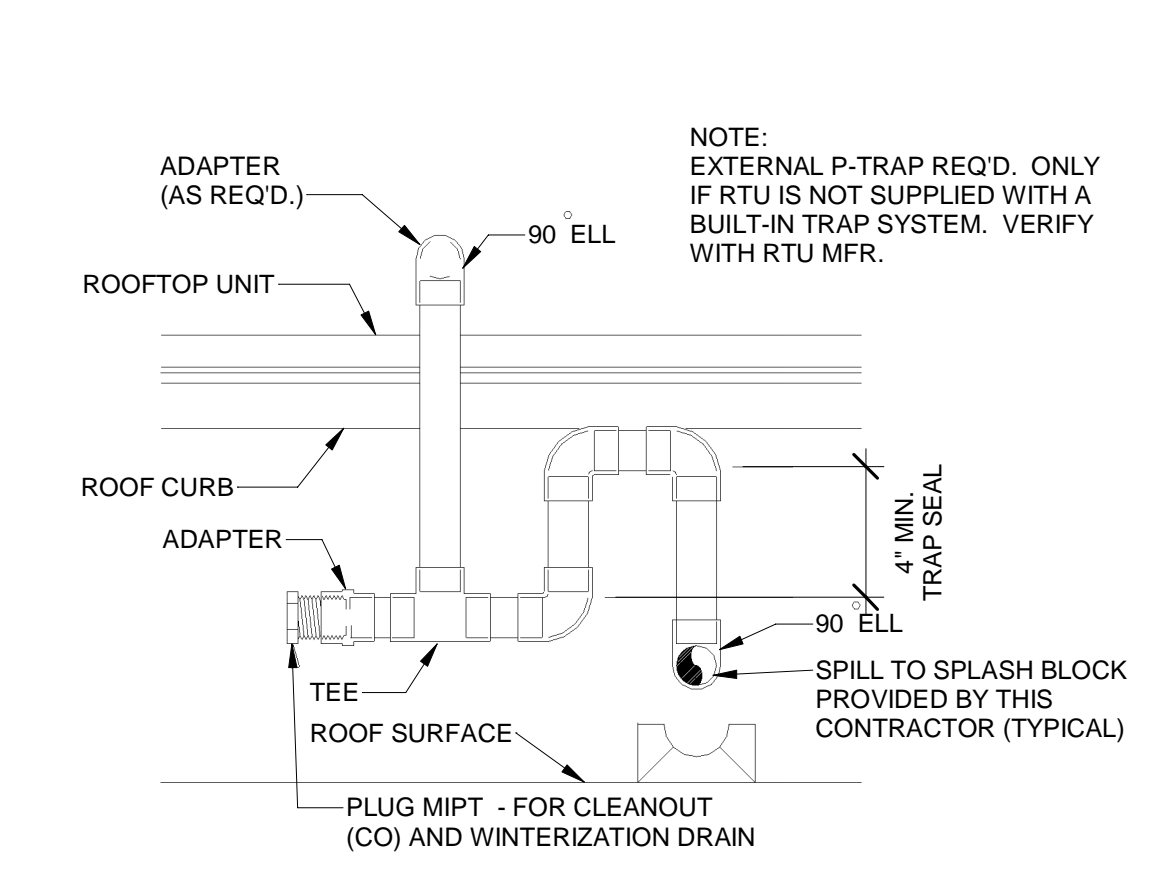
④ HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE



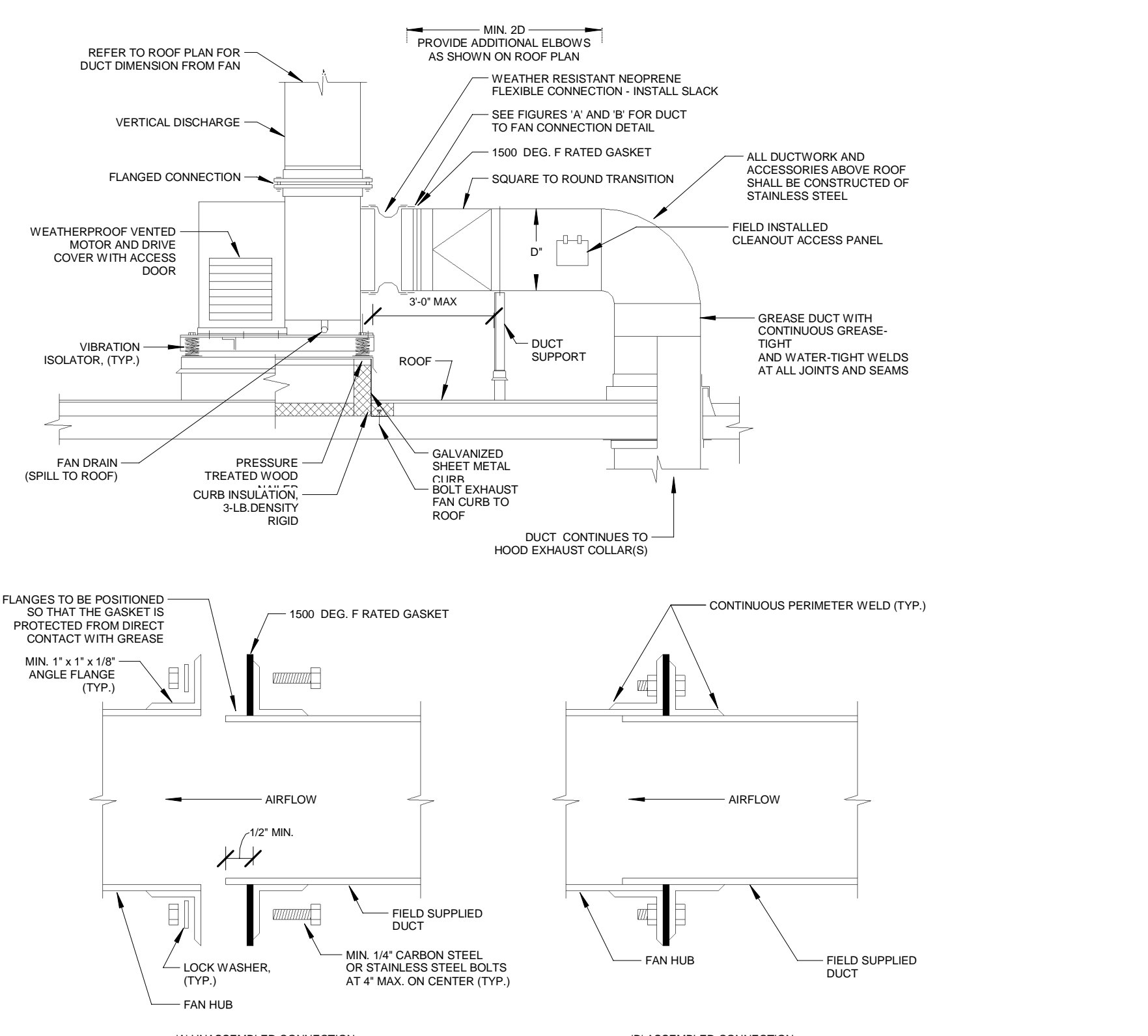
⑤ UV AIR PURIFIER INSTALLATION
NOT TO SCALE



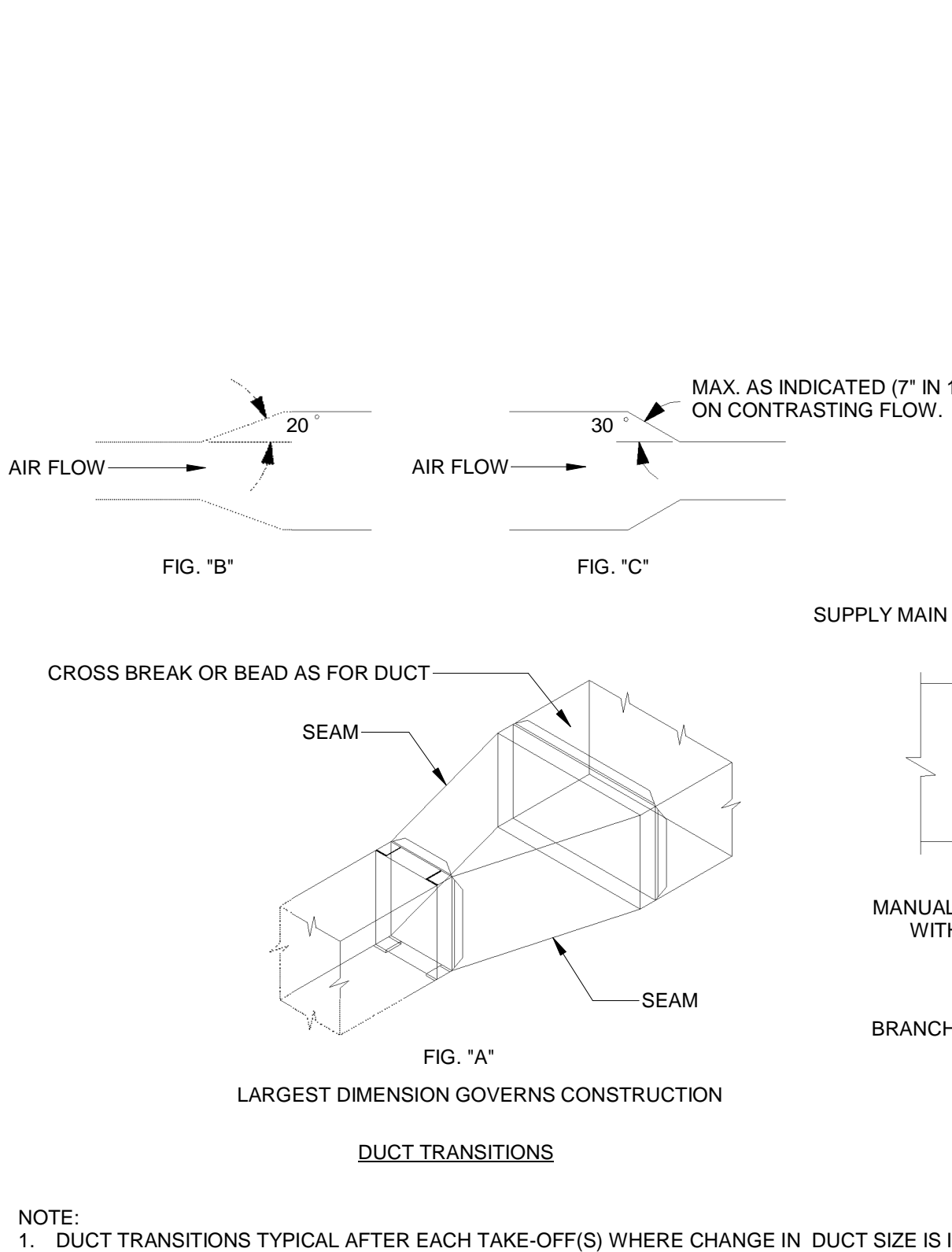
⑥ HVAC - DIFFUSER CONNECTION
NOT TO SCALE



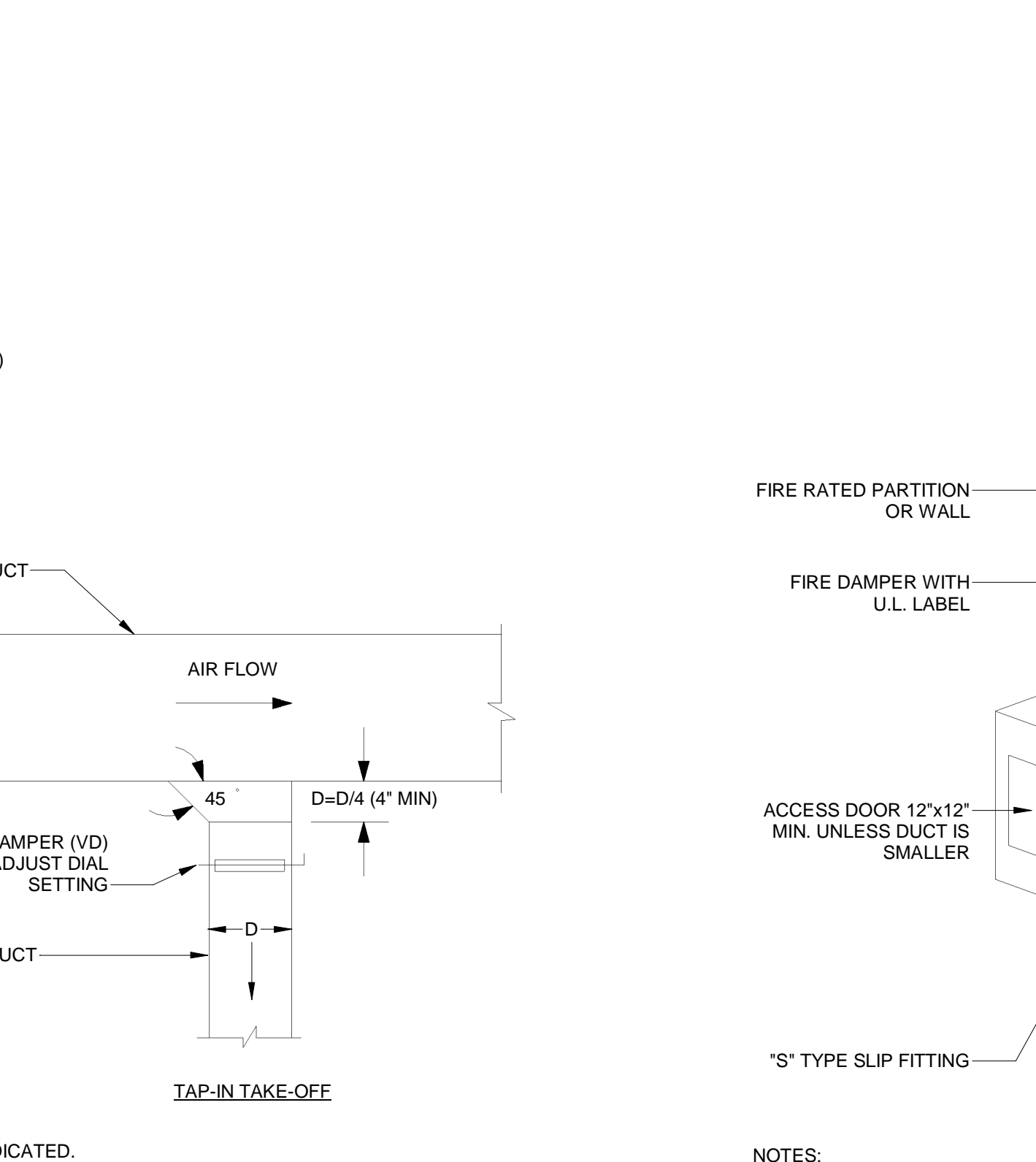
⑦ HVAC - CONDENSATE PIPING FROM RTU
NOT TO SCALE



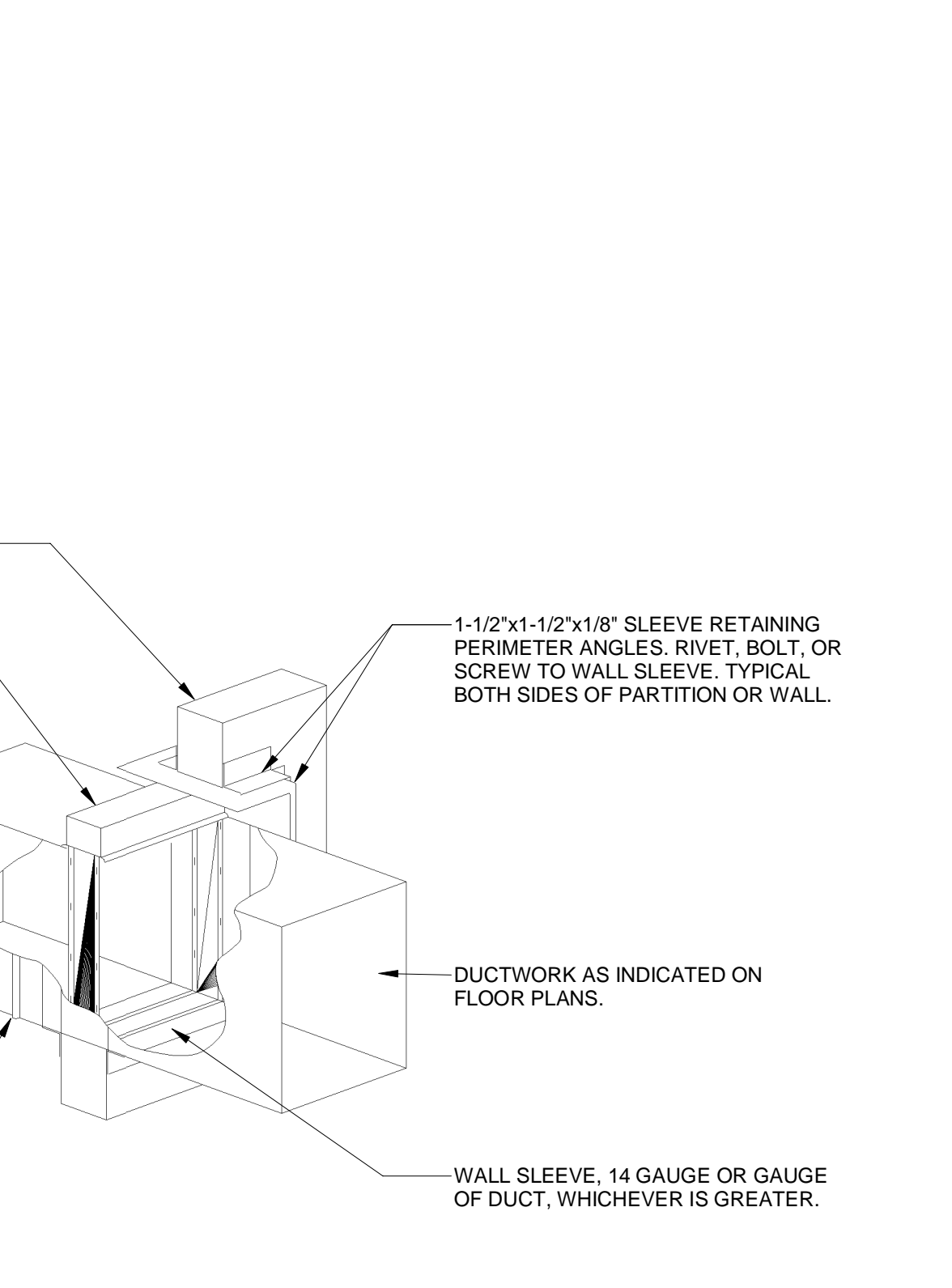
⑧ HVAC - UTILITY SET GREASE EXHAUST FAN DETAIL
6" = 1'-0"



⑨ HVAC - DUCT TRANSITION DETAILS
NOT TO SCALE



⑩ HVAC - FIRE DAMPER DETAIL
NOT TO SCALE



⑩ HVAC - FIRE DAMPER DETAIL
NOT TO SCALE

Consultant:

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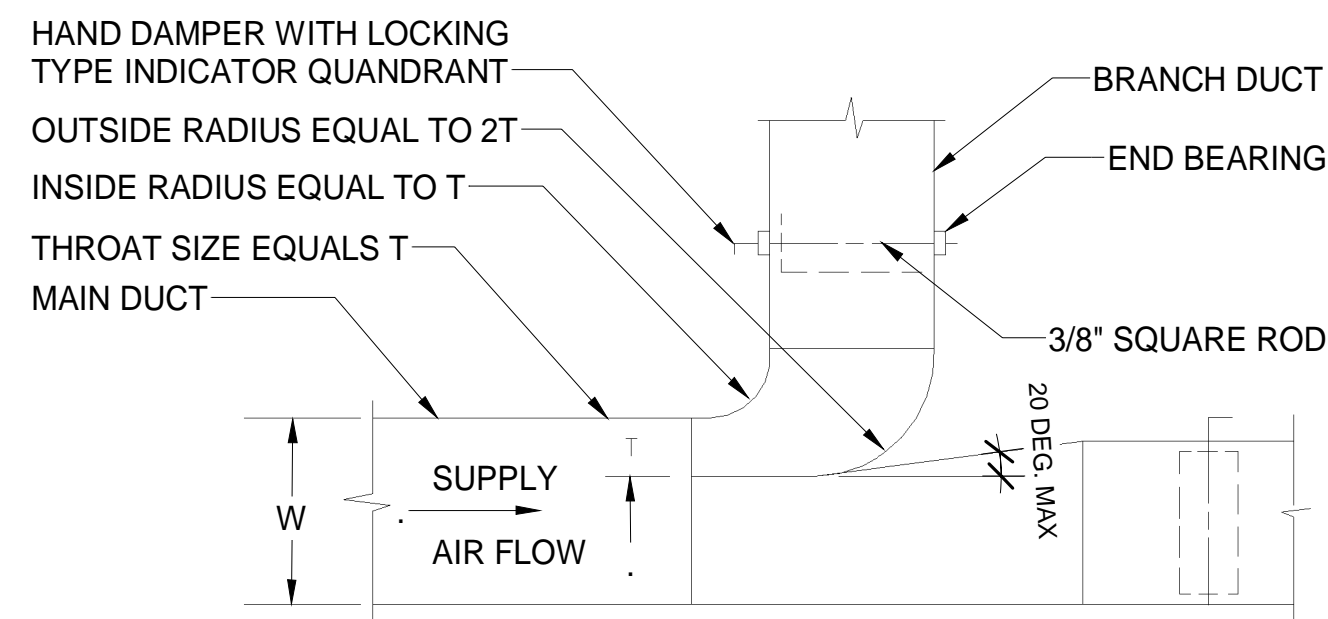
PROFESSIONAL SEAL

Michael L. Wilson, P.E.
PA License #PE-033493-E

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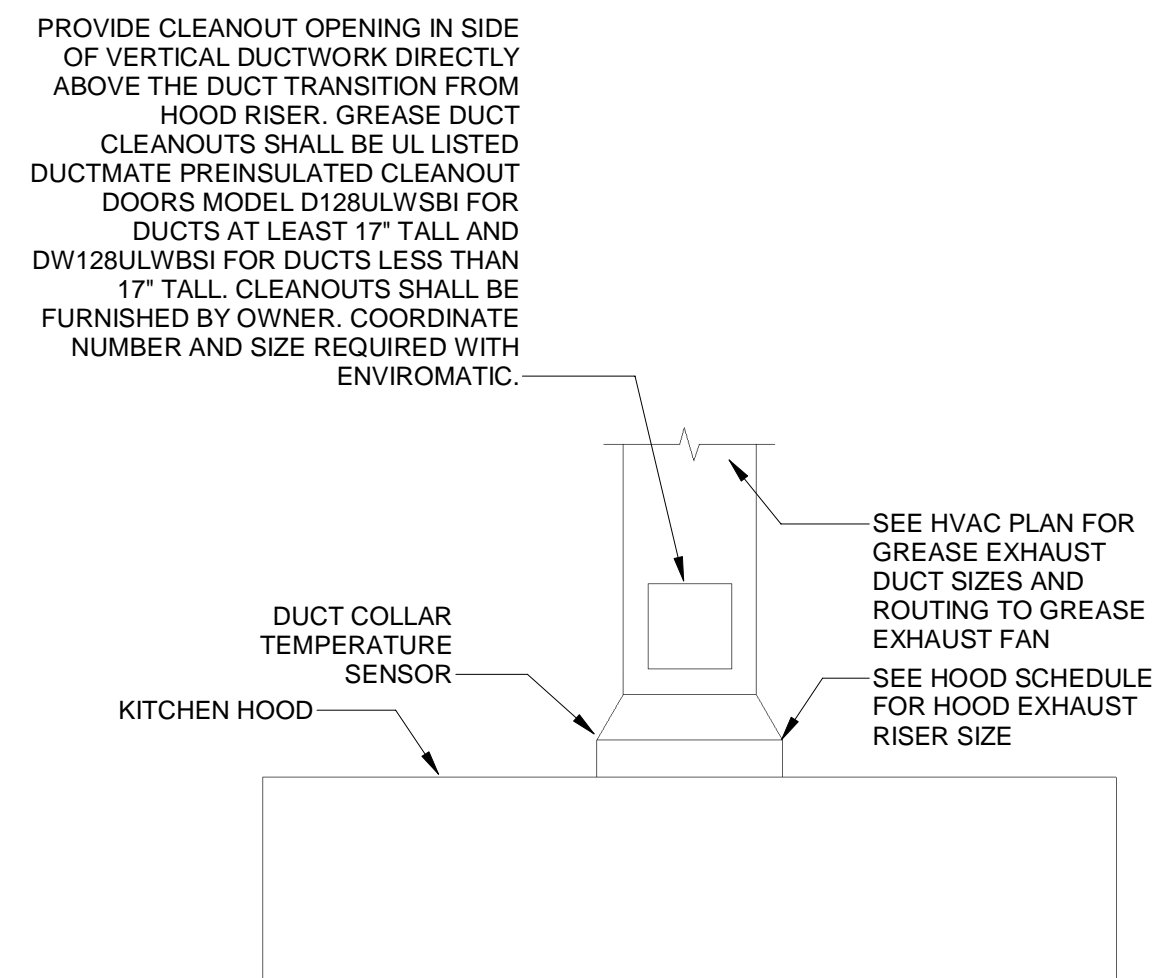
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HVAC DETAILS
SHEET NUMBER:
M-700

2022-DB#3/P#1-4

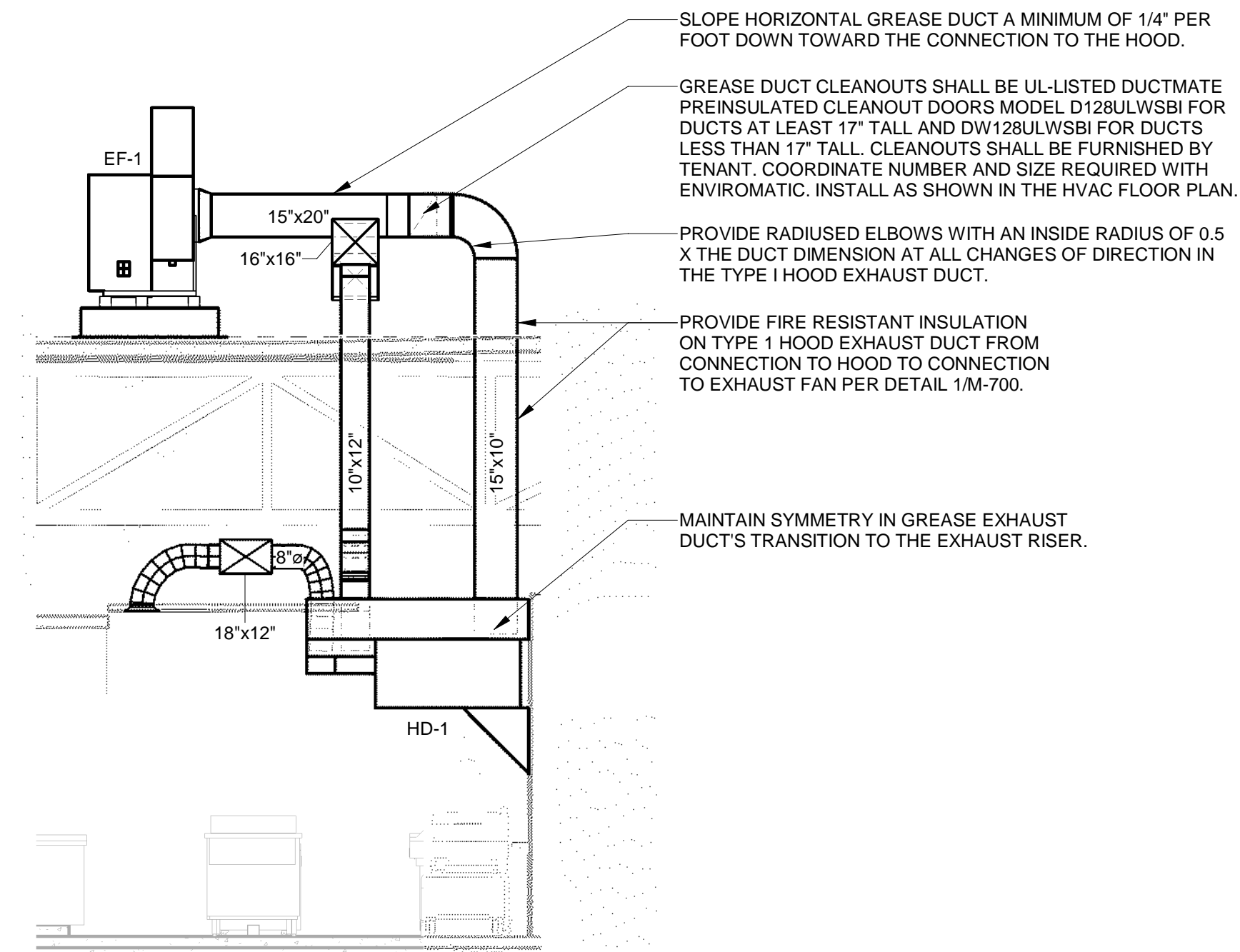


- NOTES:
- FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM.
 - MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
 - MINIMUM T = 4".

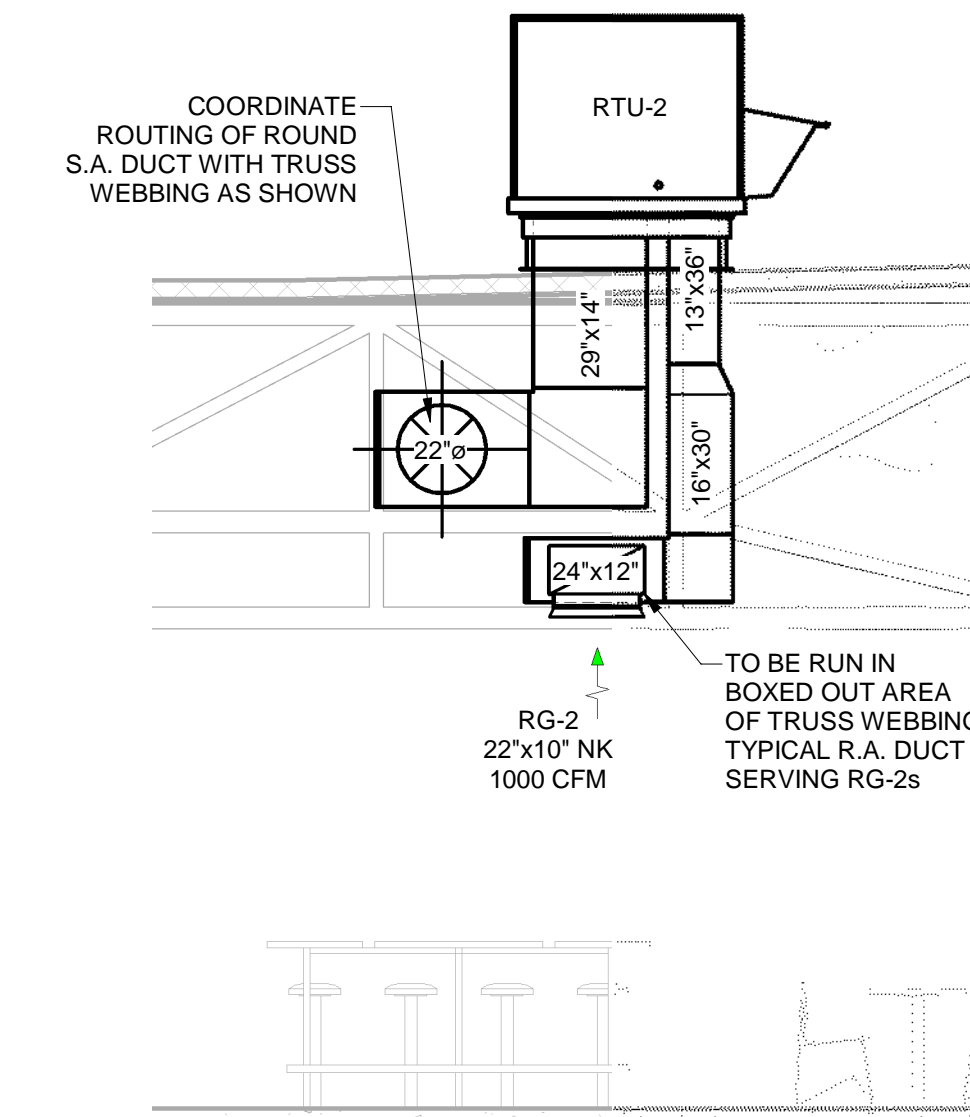
1 HVAC - RECTANGULAR DUCT BRANCH
NOT TO SCALE



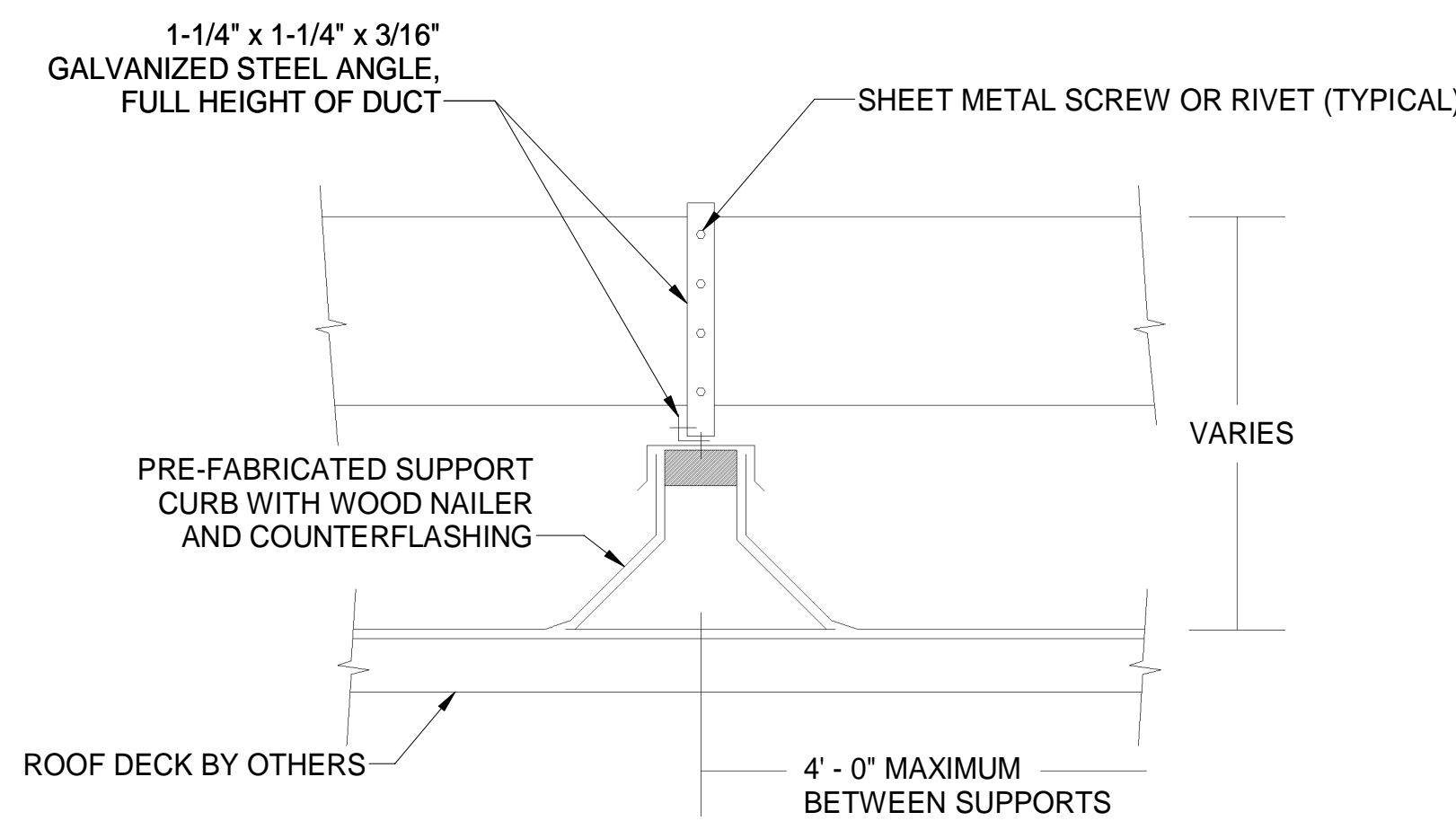
2 HVAC - GREASE EXHAUST DUCT AT HOOD
NOT TO SCALE



3 HVAC - HOOD DUCTWORK SECTION
1/4" = 1'-0"

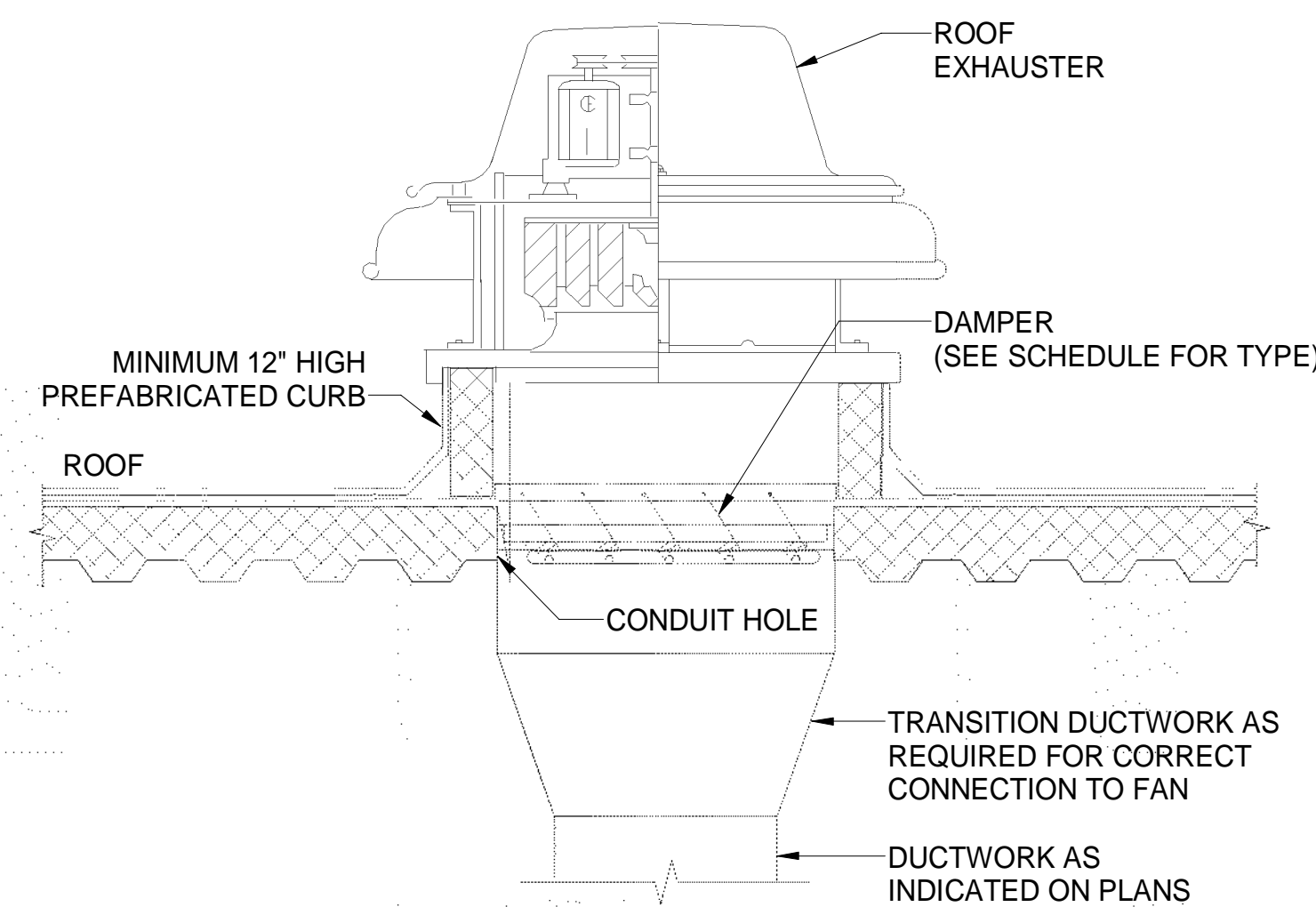


4 HVAC - RTU-2 DUCTWORK SECTION
1/4" = 1'-0"

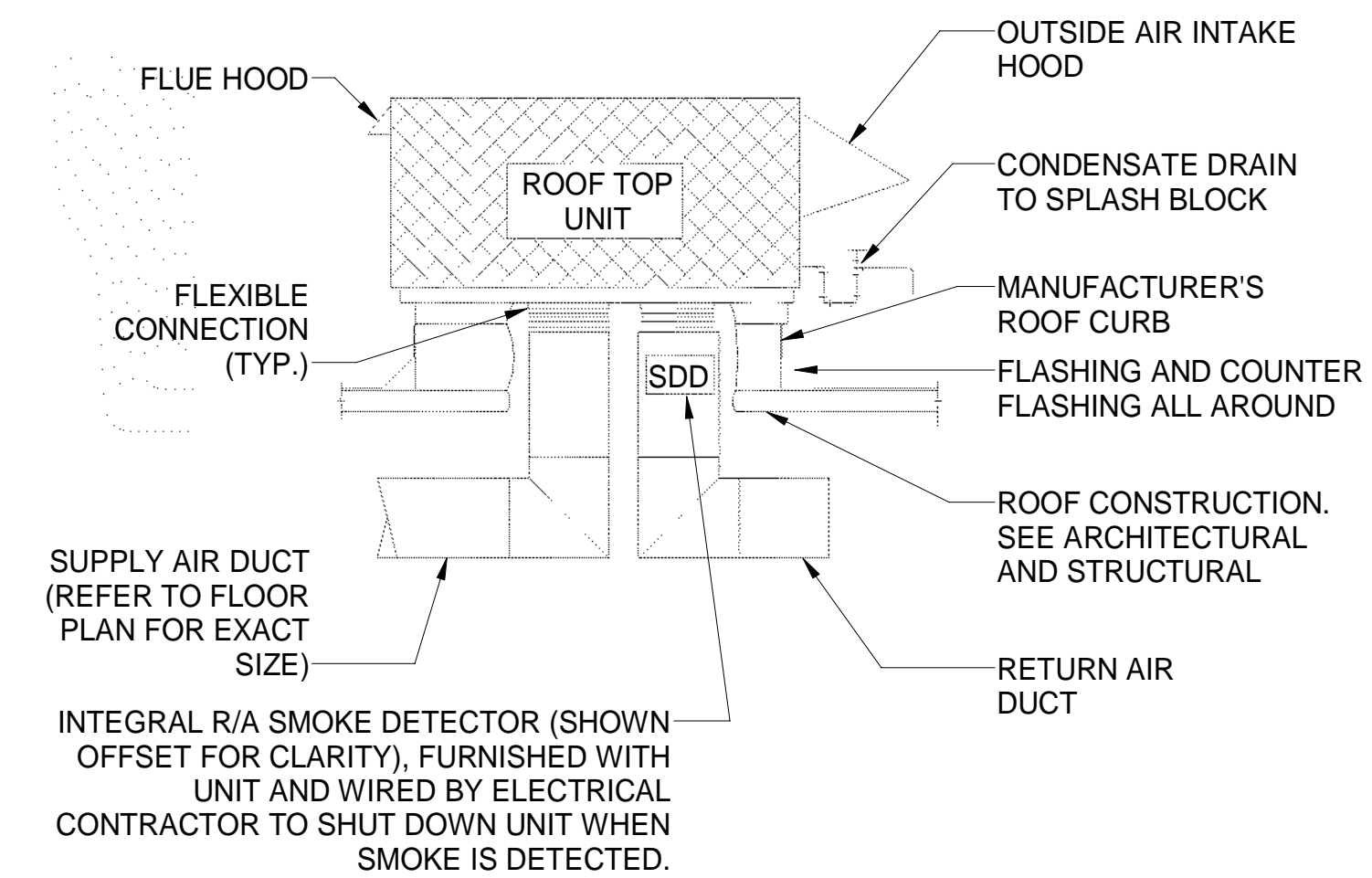


- NOTES:
- HVAC CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE EXISTING ROOFING WHERE NEW EQUIPMENT AND DUCT CURBS ARE TO BE SET AND WHERE NEW DUCT PENETRATIONS THROUGH THE ROOF OCCUR. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO CUT NEW ROOF OPENINGS FOR NEW DUCTWORK, PIPING, ETC. AFTER SETTING OF THE DUCT AND EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS BEEN INSTALLED WITHIN THE PAST 5 YEARS THE HVAC CONTRACTOR SHALL HIRE THE SERVICES OF THAT ROOFING CONTRACTOR TO INSTALL ALL CURBS AND DUCT PENETRATIONS SO NOT VOID ROOF GUARANTEES. COORDINATE THE ABOVE WITH THE OWNER AND THE ARCHITECT.

5 HVAC - ROOFTOP DUCT SUPPORT CURB DETAIL
1/8" = 1'-0"

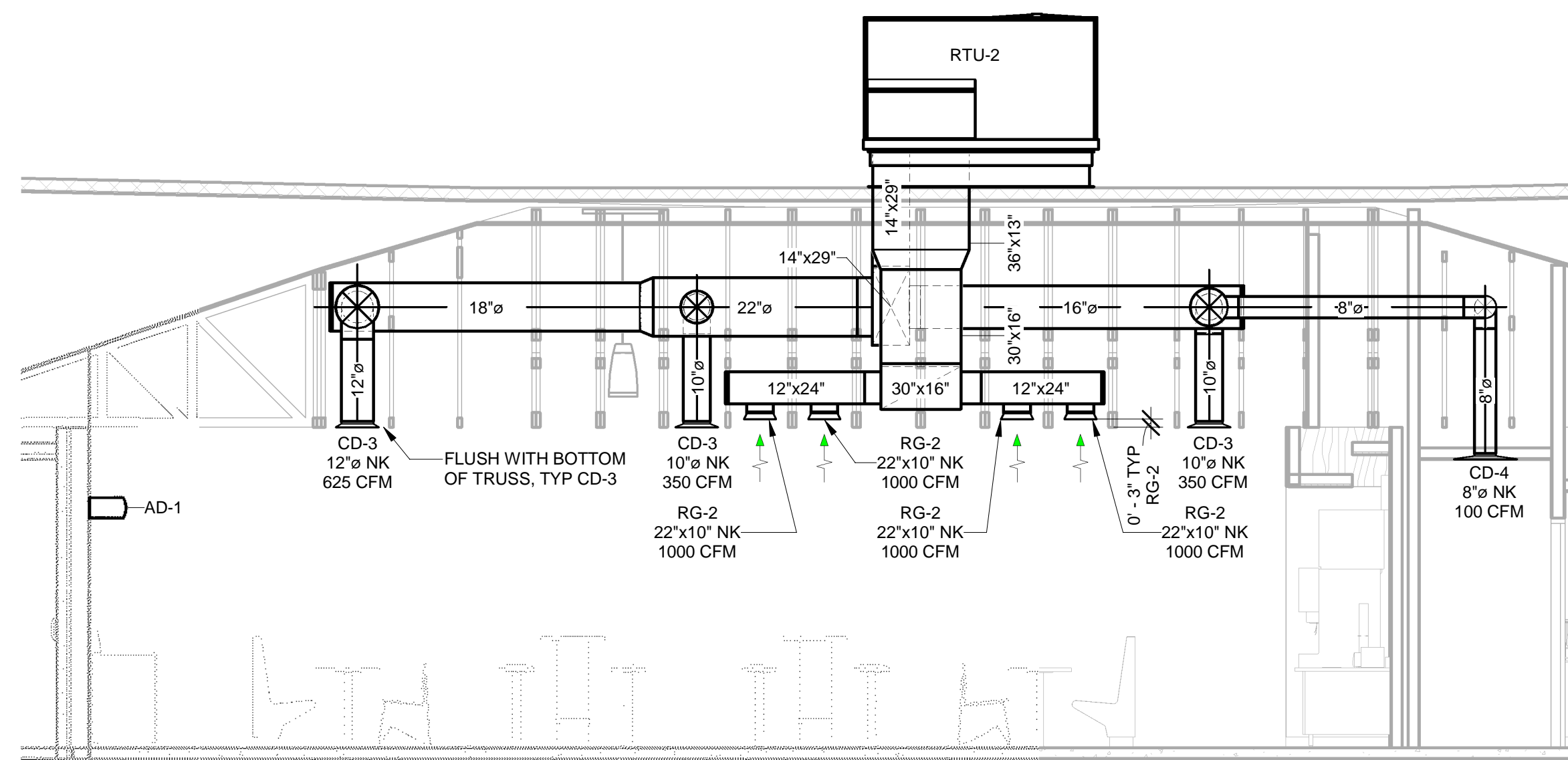


6 HVAC - ROOF MOUNTED EXHAUST FAN
NOT TO SCALE

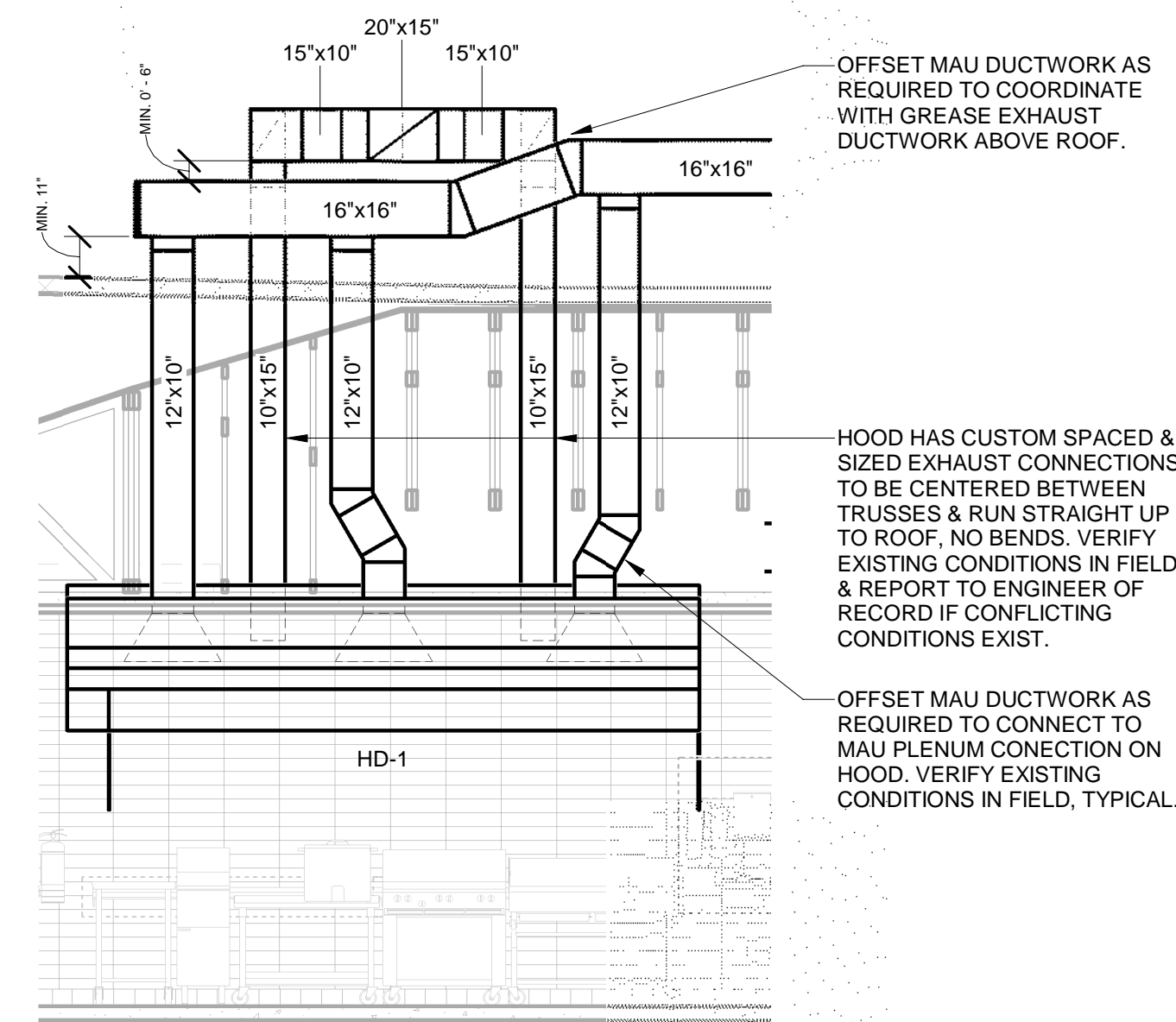


- NOTES:
- THIS DETAIL SHALL SERVE AS A STANDARD FOR INSTALLATION FOR ALL ROOFTOP UNITS. REFER TO FLOOR PLANS FOR EXACT REQUIREMENTS FOR EACH UNIT.
 - ALL ROOF PENETRATIONS ARE BASED ON MANUFACTURERS EQUIPMENT S/A TO R/A OPENING SIZE UNLESS NOTED OTHERWISE. EXTEND FULL SIZE DUCT DOWN TO ABOVE CEILING AND TRANSITION AS SHOWN ON PLANS.

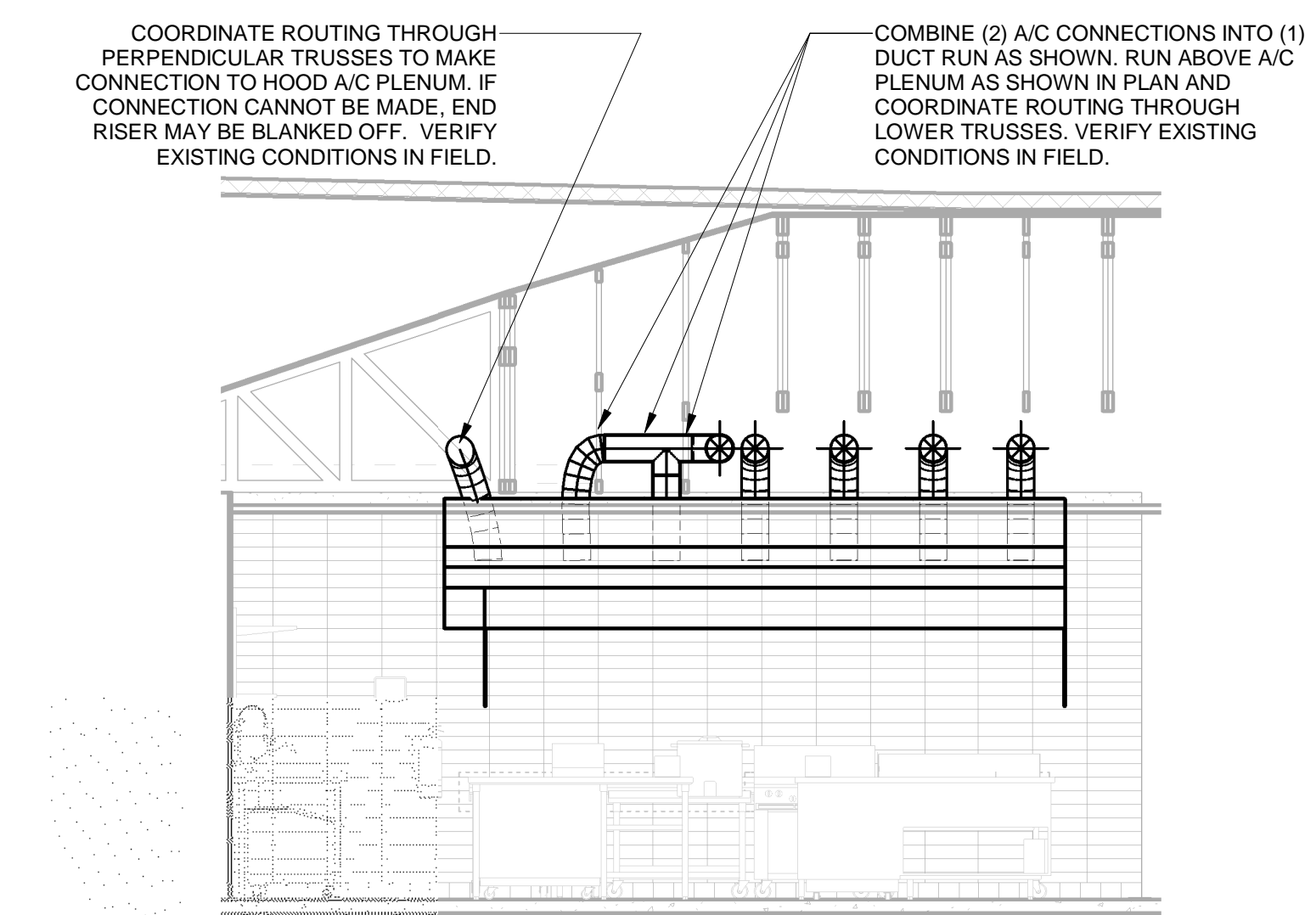
7 HVAC - ROOFTOP UNIT MOUNTING DETAIL
NOT TO SCALE



8 HVAC - DINING ROOM DUCTWORK SECTION
1/4" = 1'-0"



9 HVAC - HOOD MAKE-UP & EXHAUST DUCT SECTION
1/4" = 1'-0"



10 HVAC - HOOD A/C DUCTS SECTION
1/4" = 1'-0"

