

HVAC ABBREVIATIONS	SUPPLIER/VENDOR ABBREVIATIONS
ACC	AIR COOLED CONDENSING UNIT (HVAC)
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CU	CONDENSING UNIT (COOLER)
EF	EXHAUST FAN
ER	EXHAUST REGISTER
(E)EXTG	EXISTING
HD	HOOD
MAU	MAKEUP AIR UNIT
ODB	BLADE DAMPER
RG	RETURN GRILL
RTU	ROOFTOP UNIT
RS	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
COZAS	TENANT'S COZ ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TL5	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

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 16 GA. 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**

	CEILING DIFFUSER
	CEILING-MOUNTED RETURN REGISTER
	CEILING-MOUNTED EXHAUST REGISTER
	SUPPLY REGISTER
	RETURN REGISTER
	FLEXIBLE DUCT
	MITERED CORNER WITH TURNING VANES
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH x HEIGHT)
	RECTANGULAR TO ROUND DUCT TRANSITION
	DUCT-MOUNTED SMOKE DETECTOR
	MOTOR-OPERATED DAMPER
	MANUAL VOLUME DAMPER
	GREASE DUCT CLEANOUT
	MITERED CORNER WITHOUT TURNING VANES
	GRIDPOINT THERMOSTAT
	GRIDPOINT ZONE SENSOR MODULE
	GRIDPOINT SUPPLY PROBE
	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	CONNECT TO EXISTING
	EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-600 FOR EQUIPMENT INFORMATION
	AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	MOTORIZED DAMPER
	FIRE DAMPER W/ ACCESS DOOR
	GRILL, REGISTER, OR DIFFUSER TAG CD-1 12" ROUND 550 CFM NECK SIZE AIRFLOW

**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, NASSAU COUNTY FIRE PREVENTION ORDINANCE, NASSAU COUNTY PUBLIC HEALTH ORDINANCE, 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 LANDLORD'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 RADIUS ED 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 (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCTEABLE.

**ENERGY ANALYSIS (DUCTWORK INSULATION)  
CLIMATE ZONE 4A**

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE
ALL SUPPLY & RETURN DUCTWORK INSIDE BUILDING	R-VALUE > 6	R-VALUE > 6

NOTES: ALL SEALING TAPE SHALL CONFORM TO UL-181A OR UL-181B WHEN USED AS A PRIMARY SEALANT.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE.

**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 Construction Code of NYS, 2020 Edition.
  - 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 cutout, 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.
- 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
04/07/2025	BID SET
04/18/2025	PERMIT SET
1 04/18/2025	PER LLD COMMENTS
2 07/15/2025	CONSTRUCTION SET

PROFESSIONAL SEAL

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DRAWN BY: PCE  
CHECKED BY: AS

PROJECT NUMBER:  
24084

SHEET TITLE:

**MECHANICAL  
SPECIFICATIONS,  
SYMBOLS, & GENERAL  
INFORMATION**

SHEET NUMBER:

**M-010**  
1 OF 13

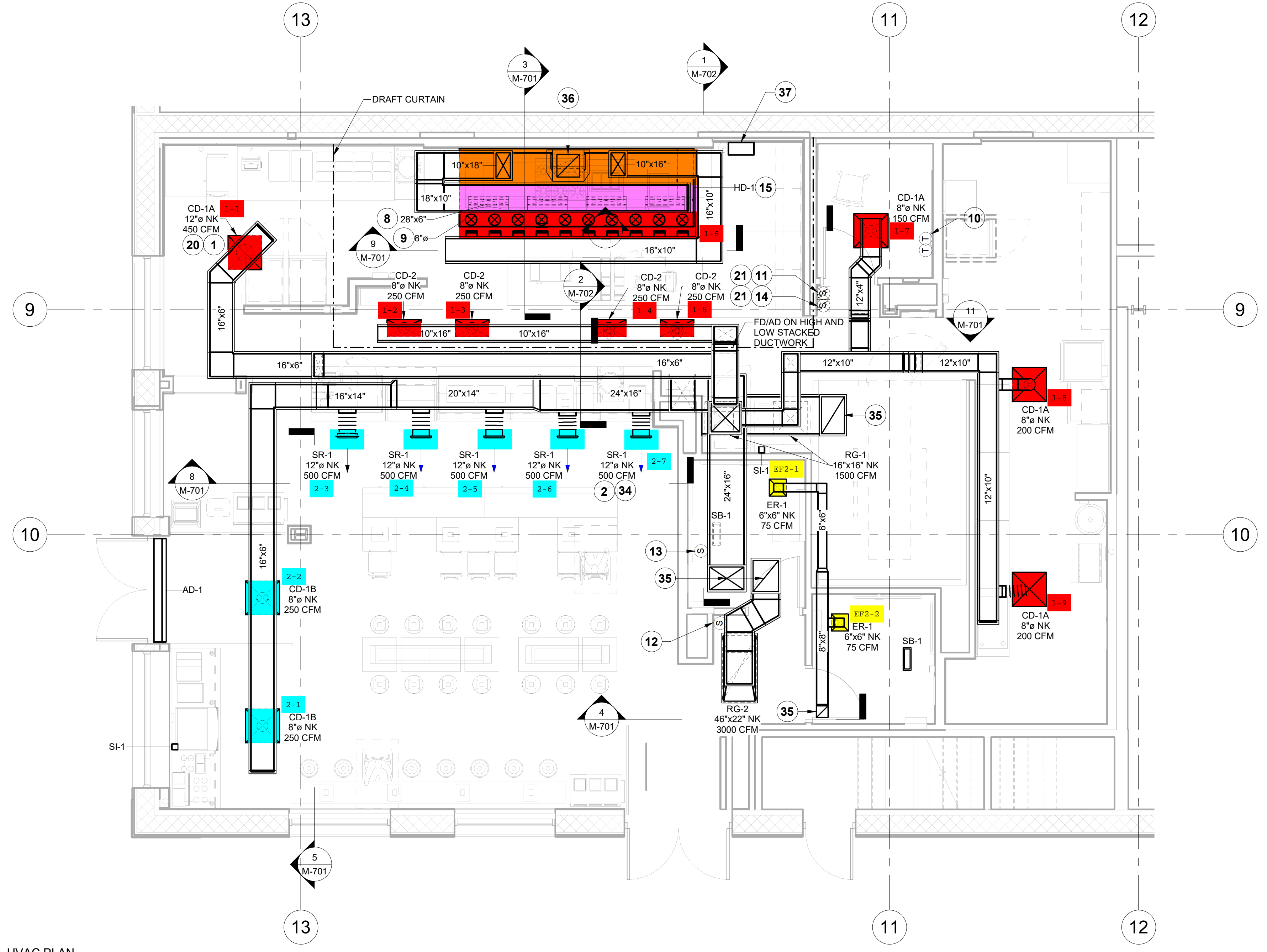
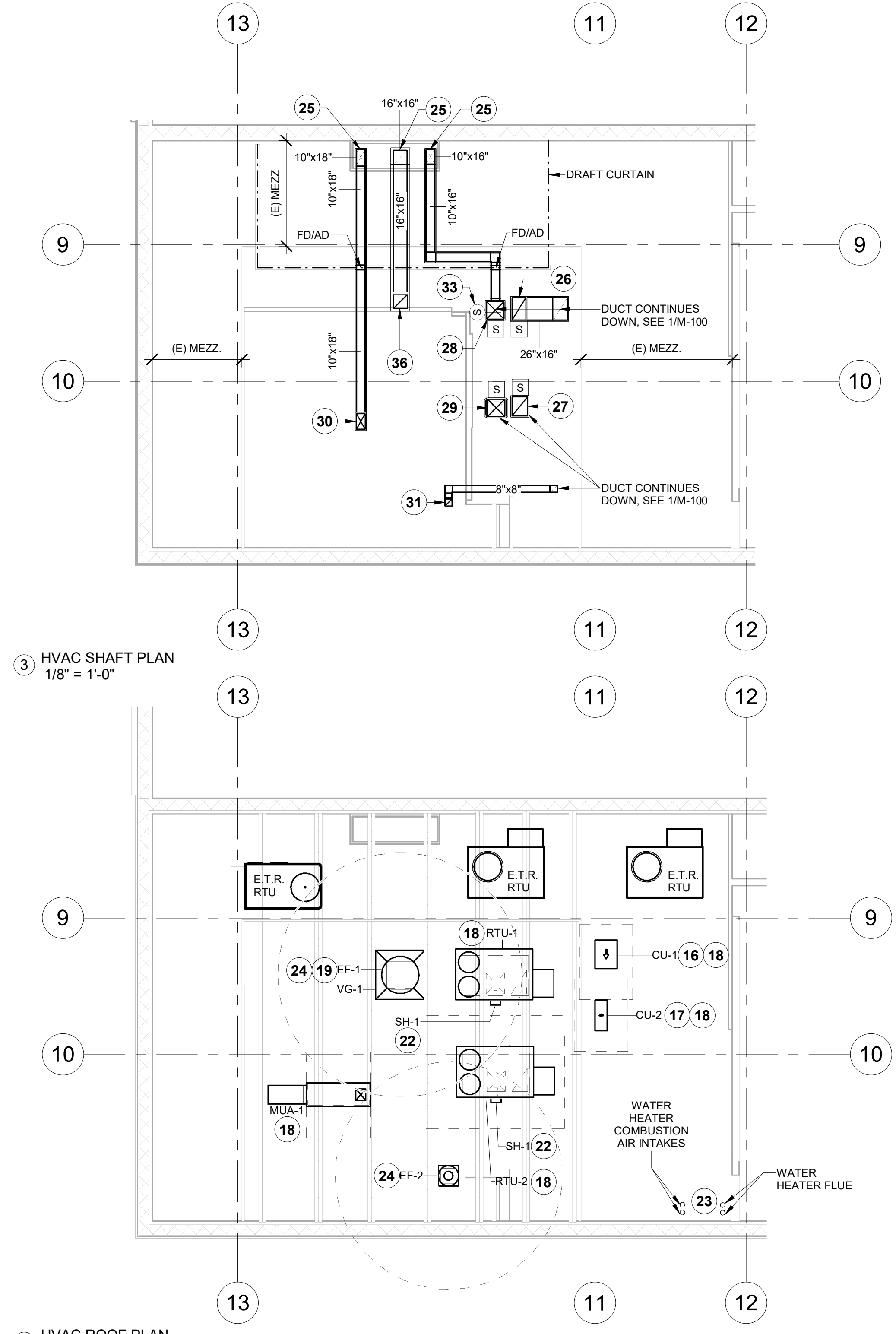
2024-DB#4/P#1-4

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 SUPPLY REGISTERS BLACK. TYPICAL.
8	28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 6.
9	8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
10	INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE LOCATION WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL THERMOSTAT WITH CORRESPONDING UNIT.
11	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION AT 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
12	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.
13	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WEATHERPROOF ENCLOSURE & VERIFY PREFERRED INSTALLATION WITH CHIPOTLE CM FOR HORIZONTAL DISCHARGE APPLICATIONS. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
14	INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION AT 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL. LABEL SENSOR "HD-1".
15	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, AND 2, 3, & 9/M-701. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
16	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.

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
17	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.
18	INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
19	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.
20	PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 6/M-700. TYPICAL.
21	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.
22	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.
23	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.
24	10'-0" MIN. CLEARANCE FROM OUTER EDGE OF EXHAUST FAN TO FRESH AIR INTAKES. TYPICAL.
25	DUCT DOWN THROUGH MEZZANINE. SEE 9/M-701 FOR CONTINUATION.

KEYNOTES FOR THIS SHEET 1, 2 ETC.	
26	16/26 DUCT FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
27	18/22 DUCT FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
28	20/20 DUCT FOR TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
29	20/20 DUCT FOR TRANSITION TO RTU-2 SUPPLY CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
30	10/18 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
31	8/8 DUCT UP THROUGH ROOF TO EF-2. SEE DETAIL 6/M-701.
33	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WEATHERPROOF ENCLOSURE & VERIFY PREFERRED INSTALLATION WITH CHIPOTLE CM FOR HORIZONTAL DISCHARGE APPLICATIONS. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
34	ADJUST SUPPLY REGISTERS HORIZONTAL & VERTICAL THROW WITH NO DRAFTS FELT IN THE DINING ROOM. TYPICAL.
35	DUCT UP. SEE 3/M-100 FOR CONTINUATION.
36	16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED 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 ALL LINEAR INTERVALS PER LOCAL CODE.
37	INSTALL CAPTIVE AIRE ELECTRIC CONTROL PANEL FOR HD-1. SEE M-400 SERIES FOR ADDITIONAL INFORMATION.



Consultant:

**Polaris**  
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**CHIPOTLE**  
MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.  
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STORE NO.: 31-5648  
LONG BEACH NY  
175/181 EAST PARK AVE.  
LONG BEACH NY 11561

REV. DATE	DESCRIPTION
04/07/2025	BID SET
04/18/2025	PERMIT SET
2 07/15/2025	CONSTRUCTION SET

PROFESSIONAL SEAL

Anthony J. Scalomandre, P.E.  
NY License #110381

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

DRAWN BY: PCE  
CHECKED BY: AIS

PROJECT NUMBER:  
24084

SHEET TITLE:  
HVAC PLAN

SHEET NUMBER:  
M-100

2024-DB#4/P#1-4



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

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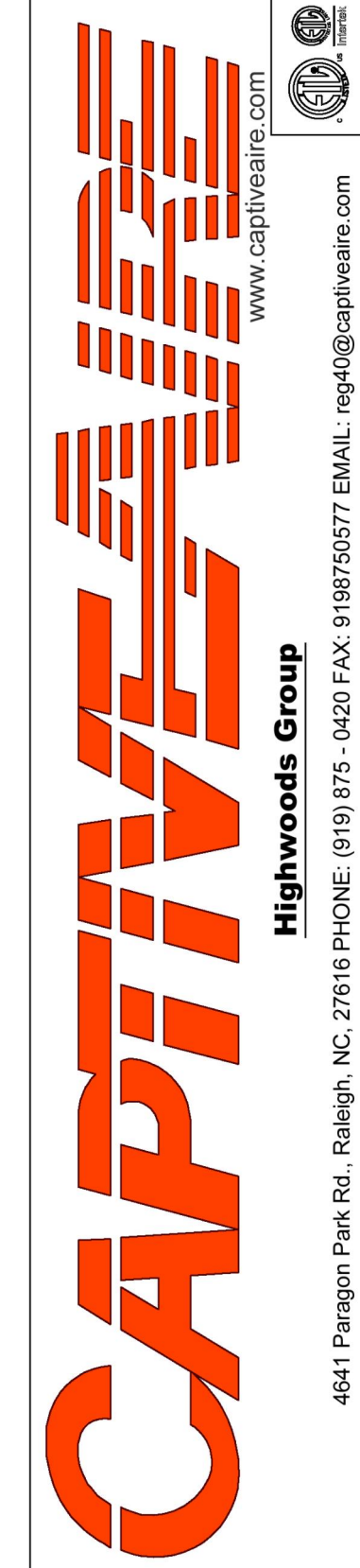
PROFESSIONAL IN CHARGE: Anthony J. Scalandrea, P.E.  
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PROJECT NUMBER:  
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SHEET TITLE:  
**CAPTIVEAIRE  
DRAWINGS**

SHEET NUMBER:  
**M-401**

REVISIONS	
DESCRIPTION	DATE



CHIPOTLE LONG BEACH NY #5648 R3  
 175 East Park Avenue,  
 Long Beach, NY, 11561

**DATE:** 5/16/2025  
**DWG.#:** 7515808  
**DRAWN BY:**  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**  
**SHEET NO.** 1

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

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	RDW
1		3650 BD-2	CAPTIVEAIRE	12' 9"	600 DEG	I	HEAVY	200	2550	10'	24"	4'		2550	1530	-1.112'	0	430 SS WHERE EXPOSED	ALONE	ALONE
2		196 MISC ACPSP-ONLY	CAPTIVEAIRE	13' 9"	300 DEG	N/A	N/A	0	0								1300	430 SS WHERE EXPOSED	ALONE	ALONE

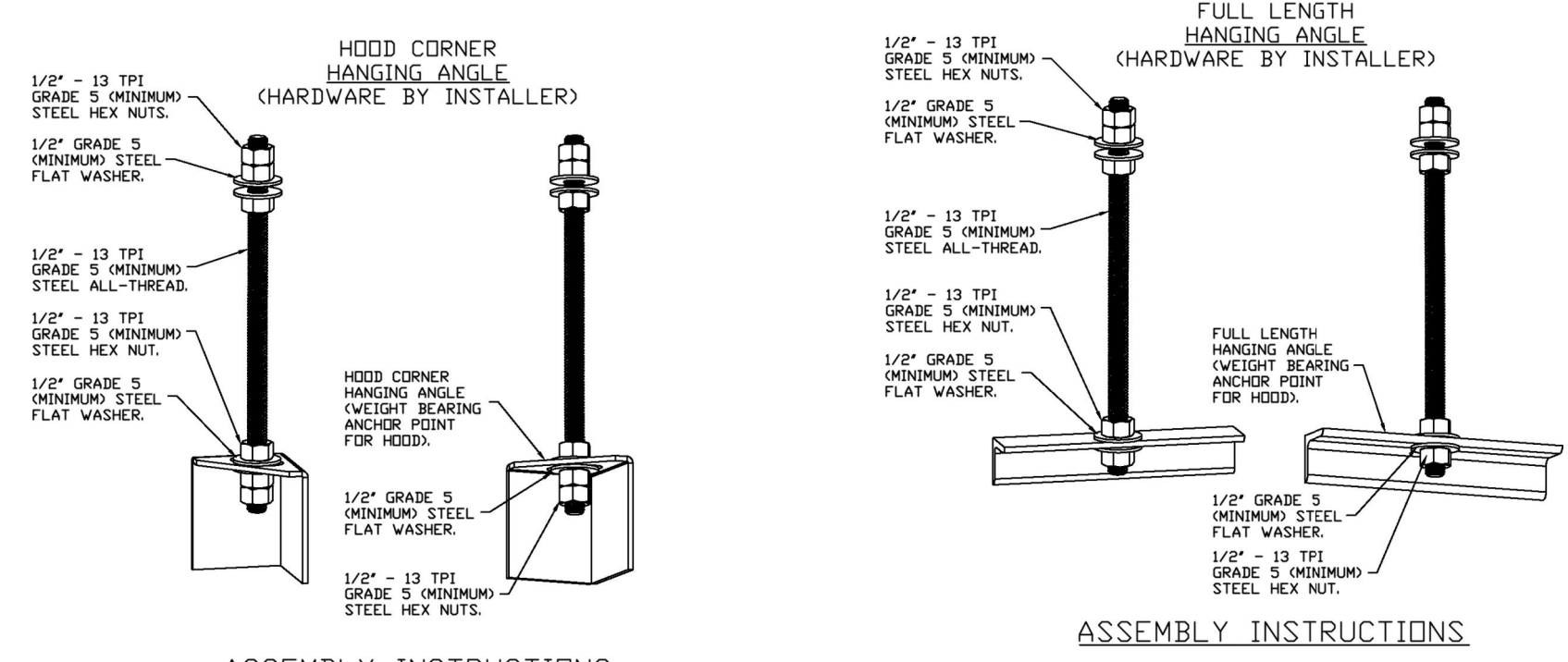
HOOD NO	TAG	FILTER(S)			LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD WEIGHT			
		TYPE	QTY	HEIGHT	TYPE	QTY	TYPE	SIZE	MODEL #	QUANTITY					
1		CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	RIGHT	12"x36"x24"	TANK FS	4.0/4.0		909 LBS
2							0								282 LBS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 25.00" HIGH LEFT, RIGHT. INSULATION FOR TOP OF HOOD. STRUCTURAL FRONT PANEL. INSULATION FOR BACK OF HOOD. NYC CONSTRUCTION. RISER SENSOR INSTALL 6IN PLEN. LEFT VERTICAL END PANEL 26" TOP WIDTH, 26" BOTTOM WIDTH, 61" HIGH INSULATED 430 SS. RIGHT VERTICAL END PANEL 26" TOP WIDTH, 26" BOTTOM WIDTH, 61" HIGH INSULATED 430 SS.
2		FIELD WRAPPER 25.00" HIGH FRONT, LEFT, RIGHT.

HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG	SP
2	Front	165'	10'	6'	AC	8"	101	0.033"	
					AC	8"	101	0.033"	
					AC	8"	101	0.033"	
					AC	8"	101	0.033"	
					AC	8"	101	0.033"	
					AC	8"	101	0.033"	
	Back	165'	9'	6'	MUA	6"	28"	325	0.088"
					MUA	6"	28"	325	0.088"
					MUA	6"	28"	325	0.088"
					MUA	6"	28"	325	0.088"
					MUA	6"	28"	325	0.088"
					MUA	6"	28"	325	0.088"

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

- \*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL 710 STANDARD.  
 - HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



**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.

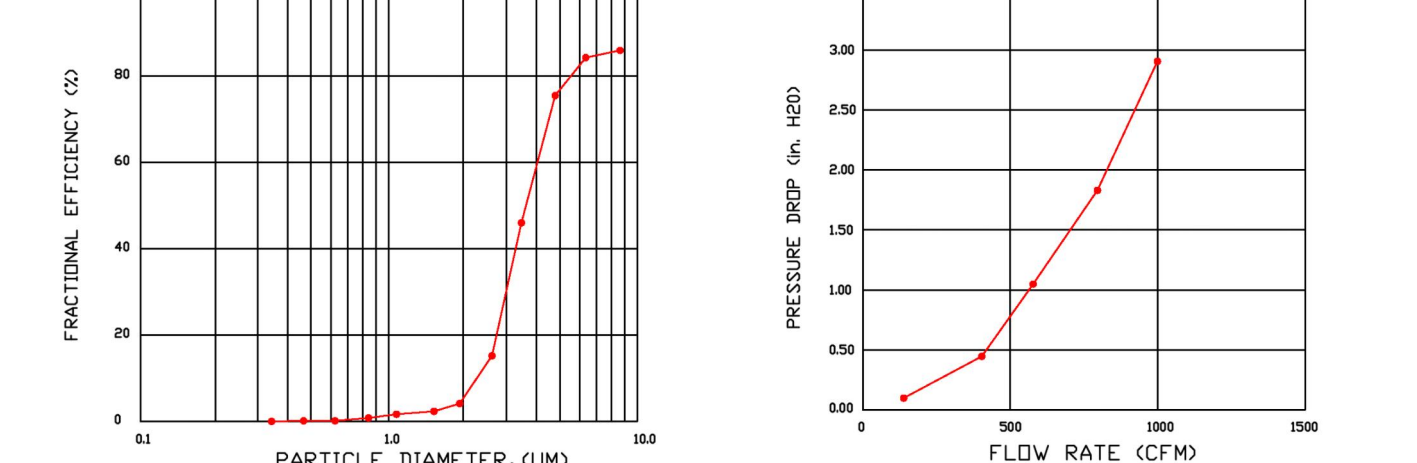
**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

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.

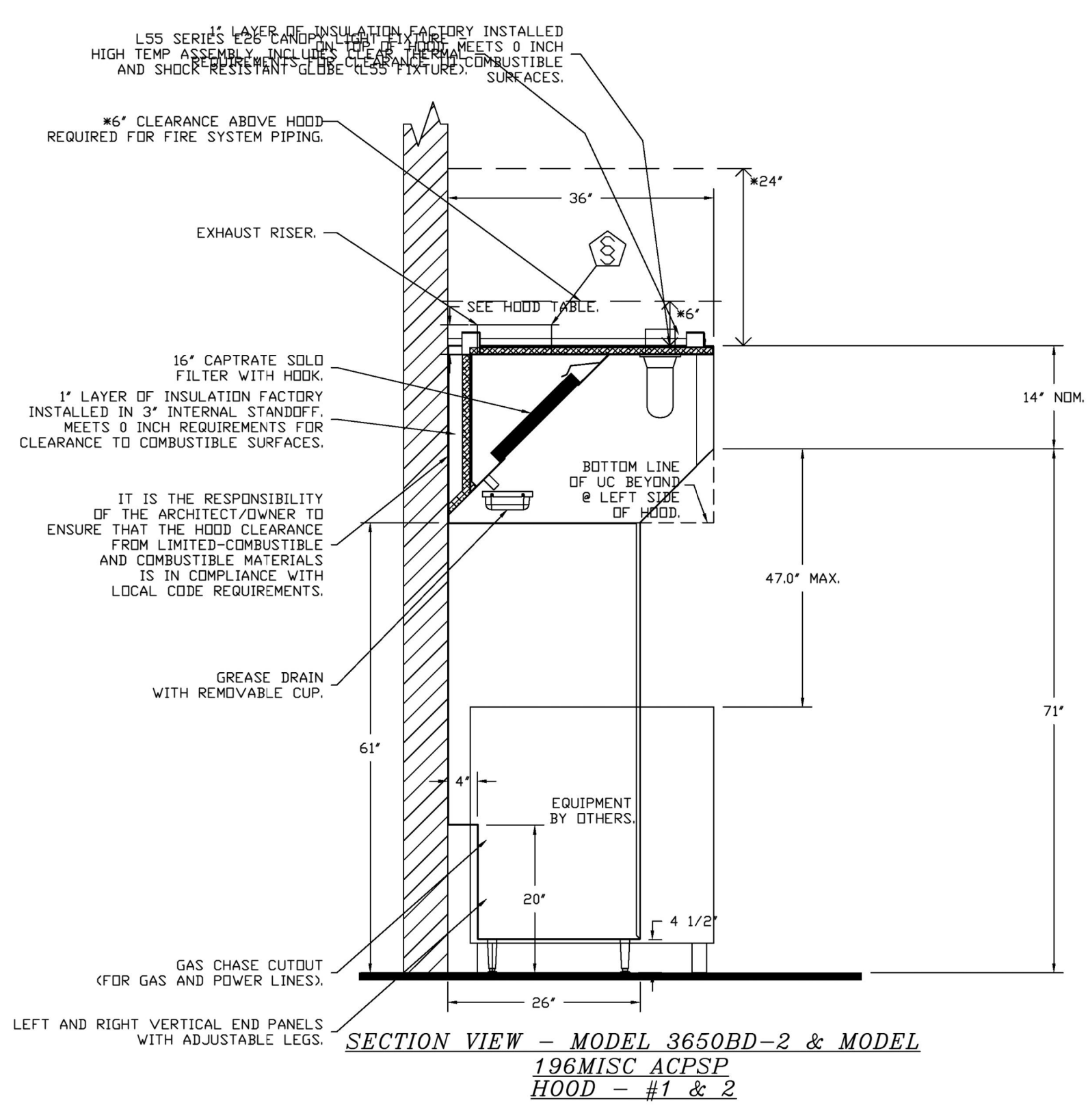
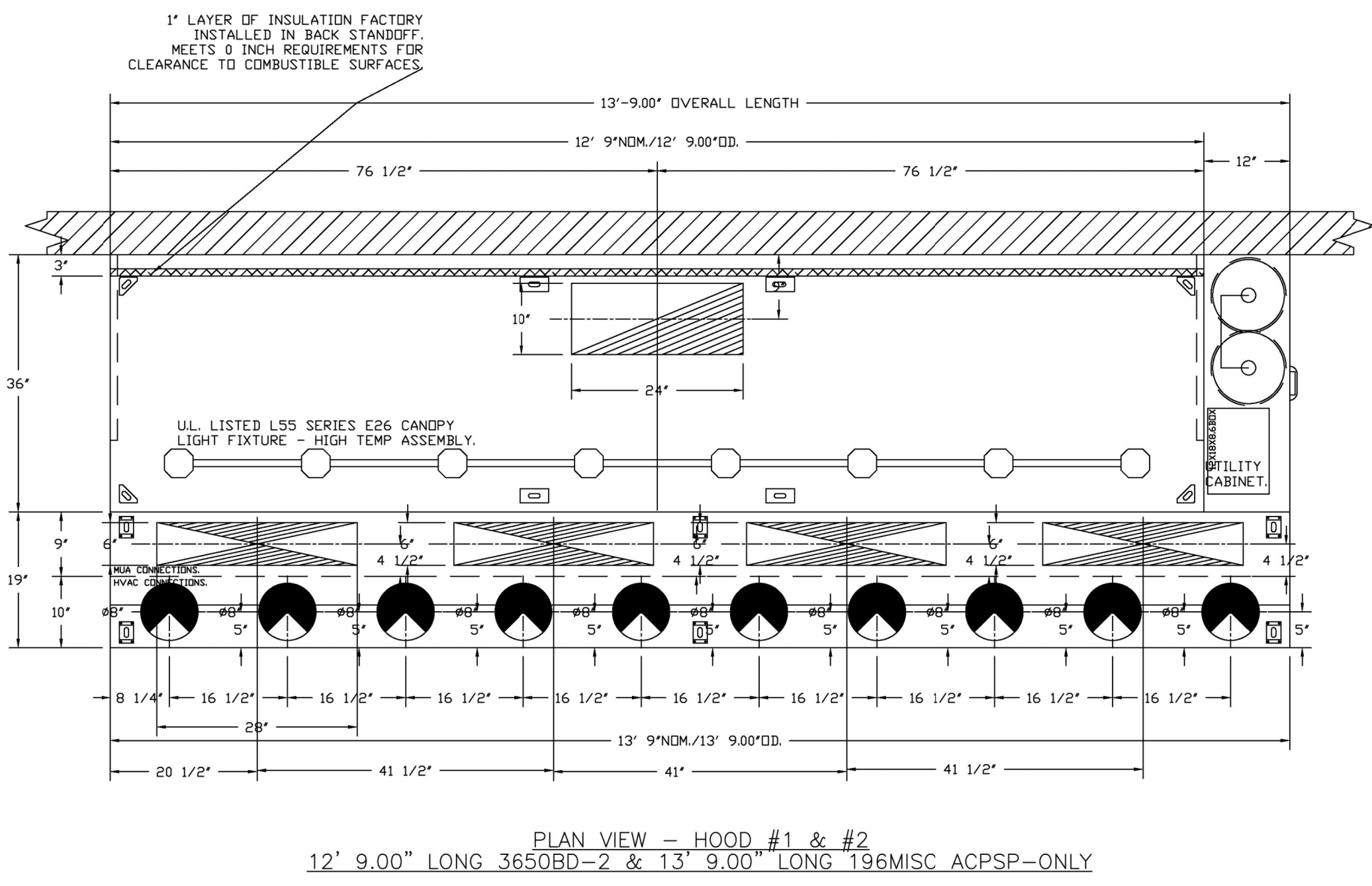
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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 #1046.  
 INT. MECH. CODE (IMC).  
 ULC-S649.



**HOOD SHOP DRAWING PRODUCED BY  
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NY License #110381

PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.  
DRAWN BY: ACE  
CHECKED BY: AIS

PROJECT NUMBER:  
24084

SHEET TITLE:

**CAPTIVEAIRE  
DRAWINGS**

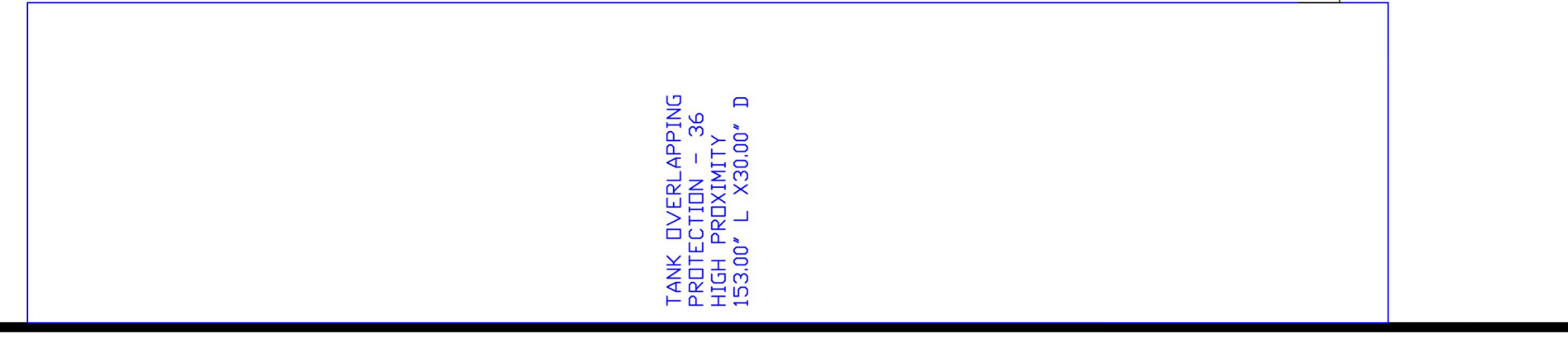
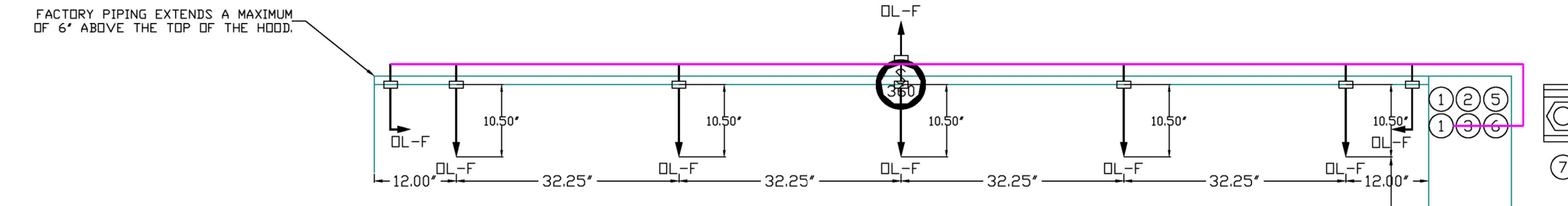
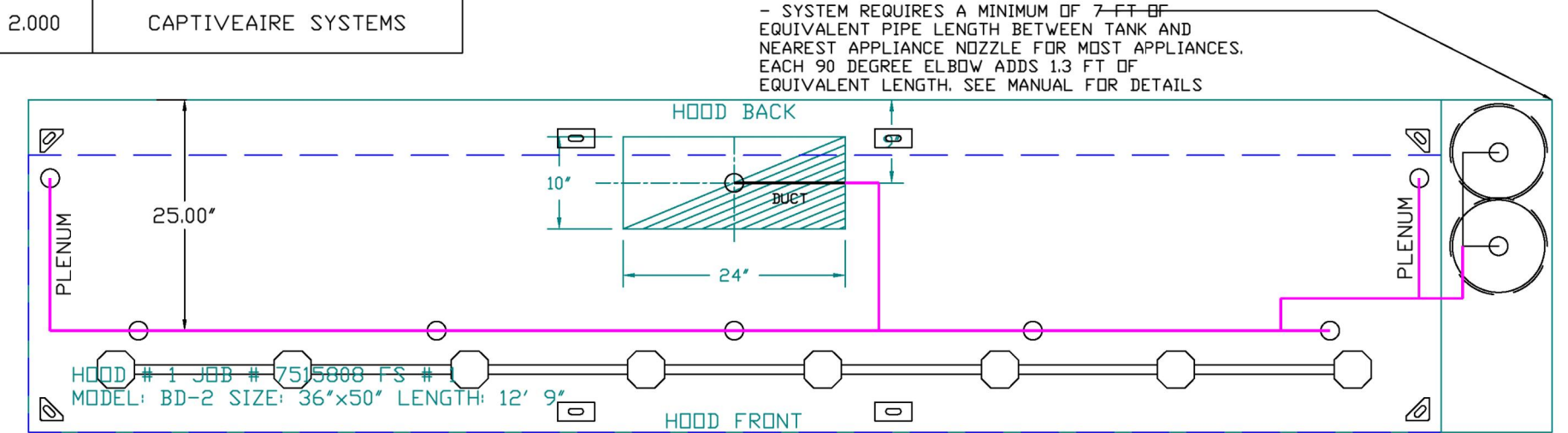
SHEET NUMBER:

**M-402**  
4 OF 13

**FIRE SYSTEM INFORMATION - JOB#7515808**

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)				
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



- NOTES**
- FIELD PIPE DROPS AS SHOWN
  - PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
  - FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
  - SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
  - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
  - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
  - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
  - FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
  - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
  - THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.
  - QL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

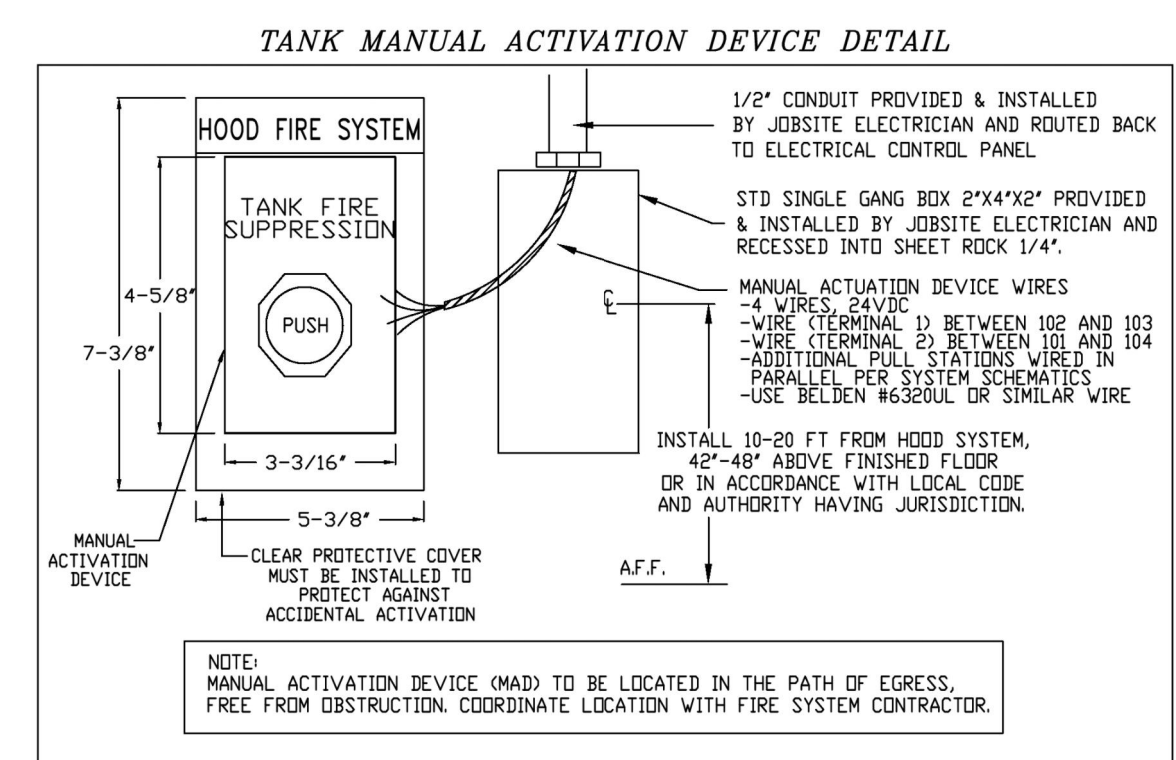
JOB #: 7515808  
JOB NAME: CHIPOTLE LONG BEACH NY #5648 R3.  
SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32. MAXIMUM FP: 40.  
HOOD # 1 12' 9.00" LONG x 36" WIDE x 50" HIGH.  
RISER # 1 SIZE: 10" x 24".  
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

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

**LEGEND - FIRE CABINET TANK SYSTEM**

- 4 GALLON TANK.
  - PRIMARY ACTUATOR RELEASE.
  - SECONDARY ACTUATOR RELEASE.
  - PRESSURE SUPERVISION SWITCH.
  - PRIMARY HOSE ASSEMBLY.
- INCLUDES: FIELD INSTALLATION AND TROUBLESHOOTING DURING NORMAL BUSINESS HOURS BY CERTIFIED TECHNICIANS ONLY IN ACCORDANCE WITH THE INFORMATION NOTED ABOVE. TWO SITE VISITS ONLY REQUIRED TO COMPLETE THE SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES; ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

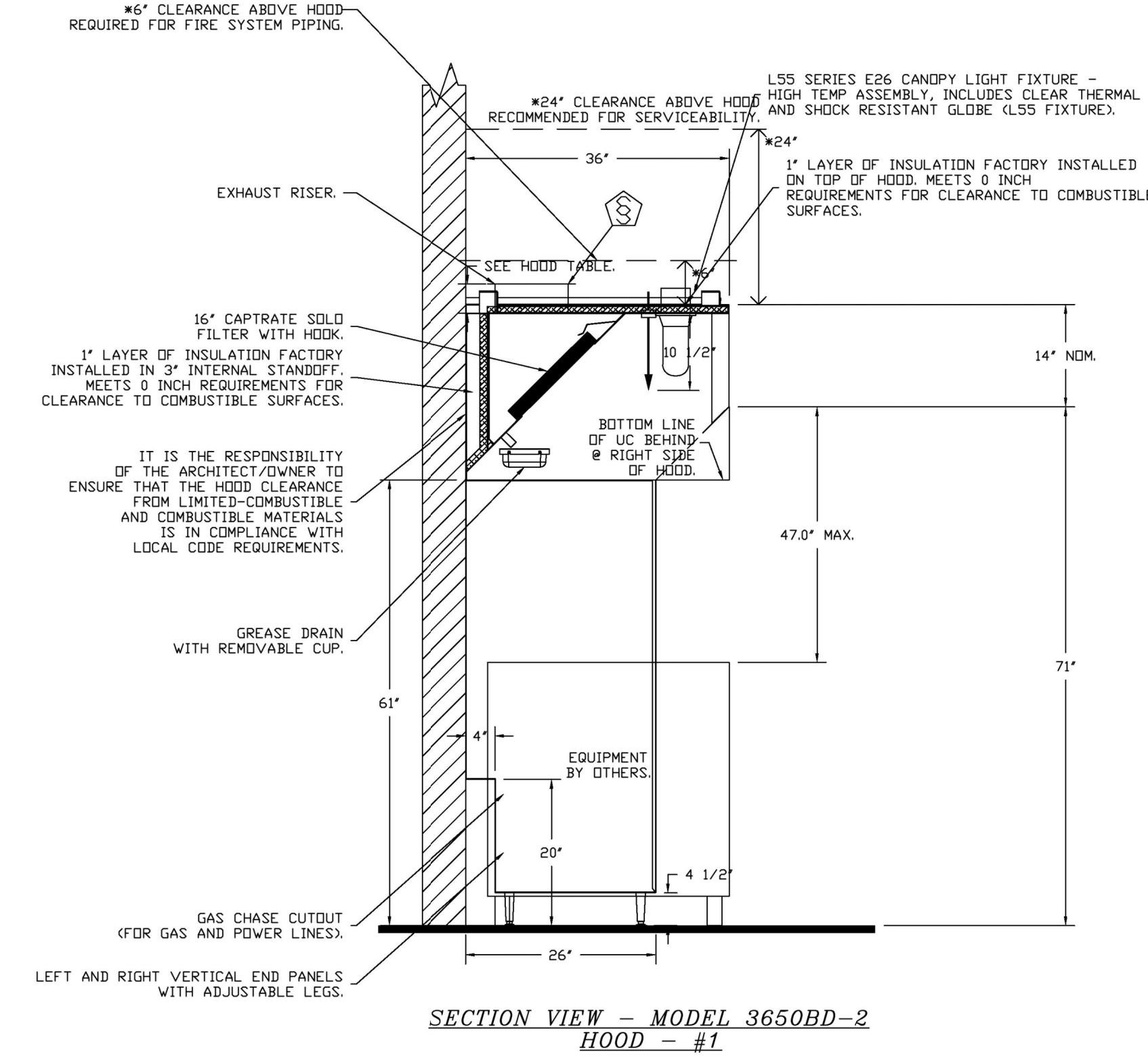
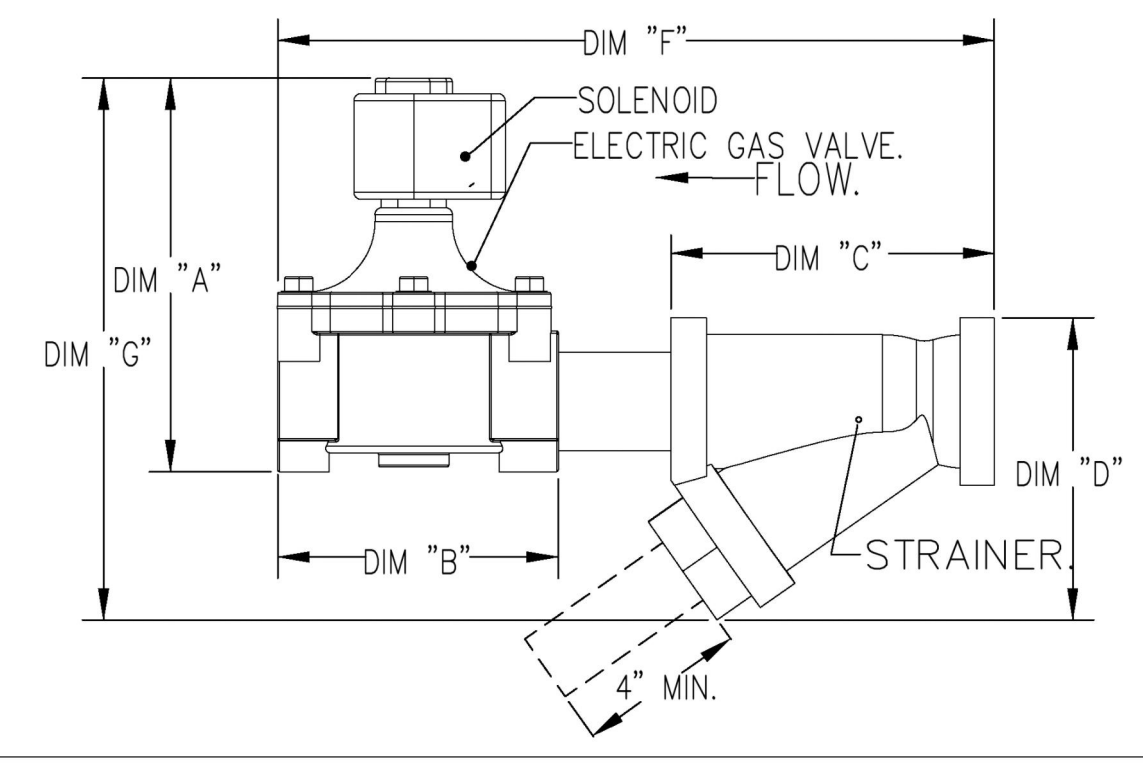


GAS VALVES AND STRAINERS																
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS				
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"		DIM "E"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4417K68	(SC)EJVA2

**ELECTRIC GAS VALVES ONLY: SOLENOID ORIENTATION**  
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.  
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.  
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

**ALL GAS VALVES/STRAINERS**  
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

**CALCULATIONS**  
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.85</sup>  
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.85</sup>



2024-DB#4/P#1-4

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

CHIPOTLE LONG BEACH NY #5648 R3  
175 East Park Avenue,  
Long Beach, NY, 11561

**DATE:** 5/16/2025  
**DWG.#:** 7515808  
**DRAWN BY:**  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

**SHEET NO.**  
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M-403

5 OF 13

REVISIONS	
DESCRIPTION	DATE

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FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BDX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	1 1/2-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCV ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	LOW PRESSURE GAS SWITCH
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

EXHAUST FAN INFORMATION - JOB#7515808

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	DUI80HFA	CAPTIVEAIRE	2550	1.200	1145	TEFC, PREMIUM	2.000	1.0700	3	208	7.3	589 FPM	199	13.4
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.300	926	TEAD-ECM	0.250	0.0350	1	115	2.9		50	3.1

MUA FAN INFORMATION - JOB#7515808

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)	SDNES
3	MAU-1	1	A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1300	0.300	1413	DDP, PREMIUM	1.000	0.4470	3	208	3.1	3.9A	15A	509	10.4

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	86014	79133	57°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

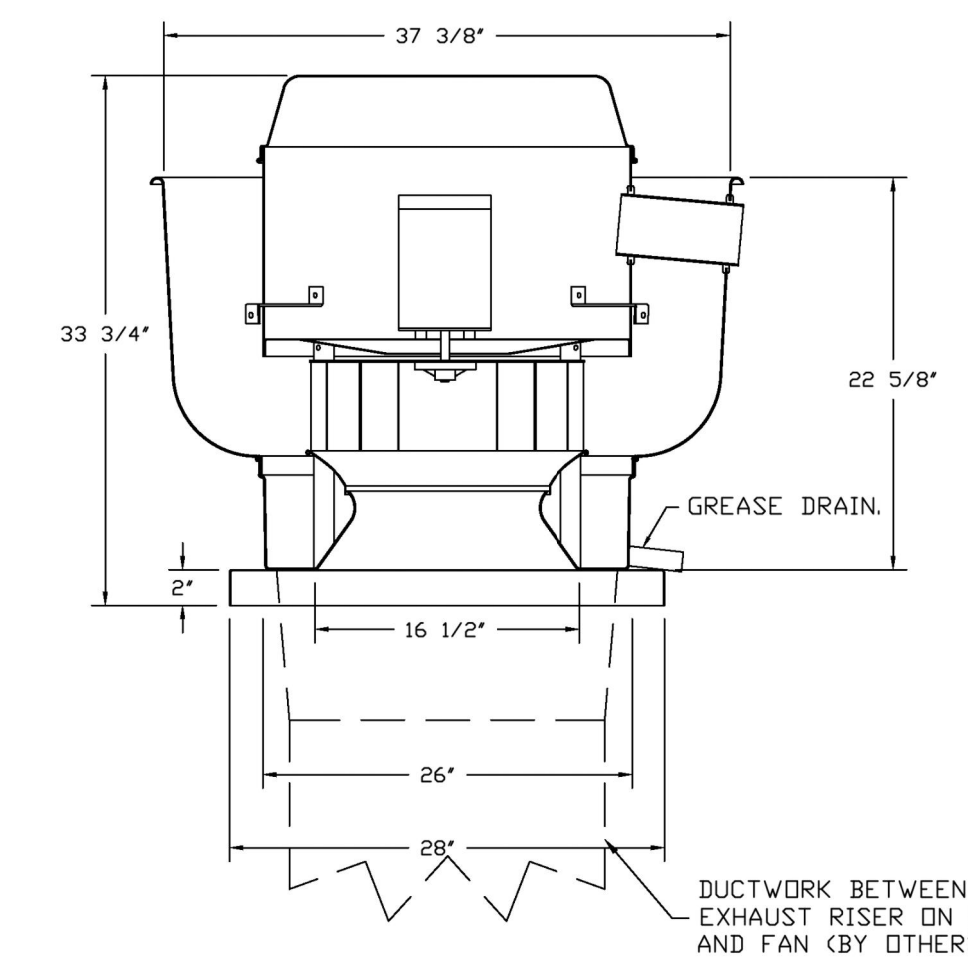
FAN ACCESSORIES

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				

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.

FAN #1 DUI80HFA - EXHAUST FAN (EF-1)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

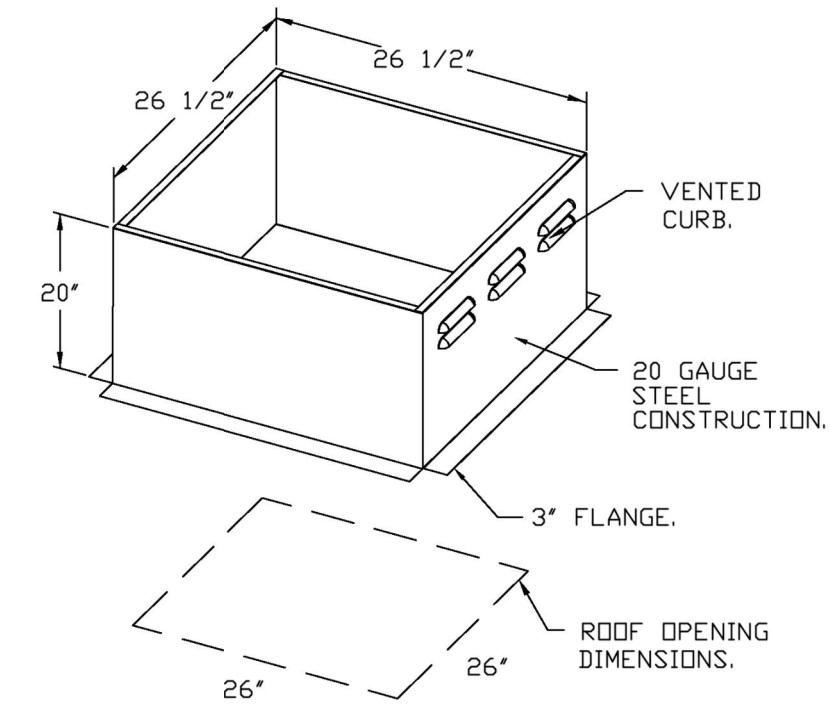
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

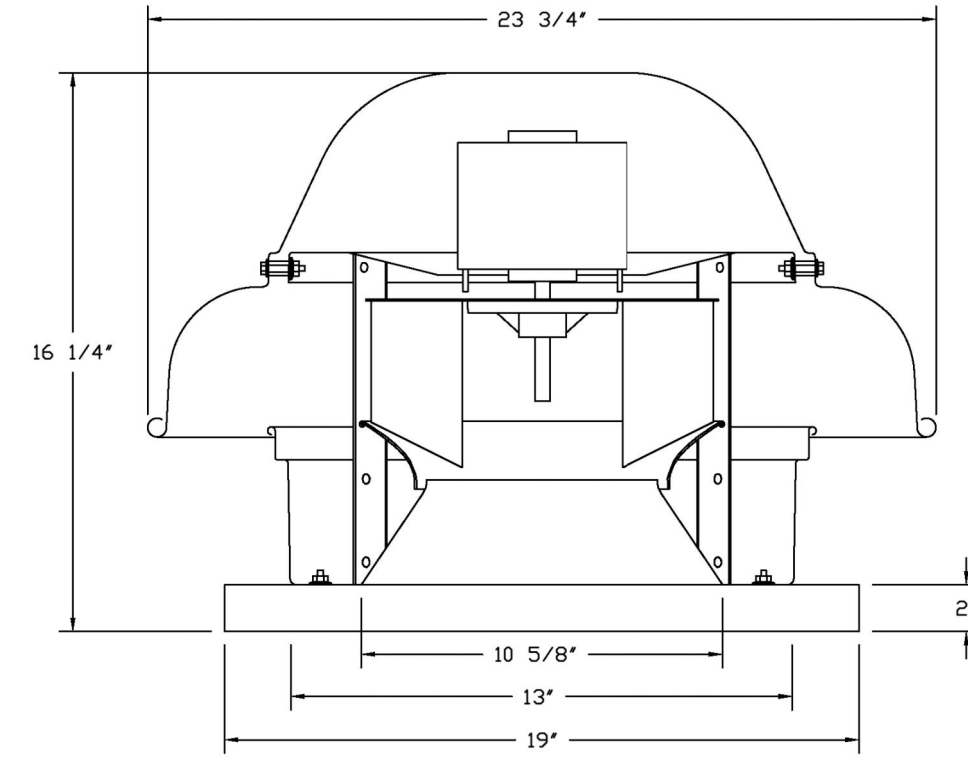
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX
- REMOVE HINGE KIT LABEL FROM THE FAN BASE
- 2 YEAR PARTS WARRANTY.



FAN #2 DR12HFA - EXHAUST FAN (EF-2)



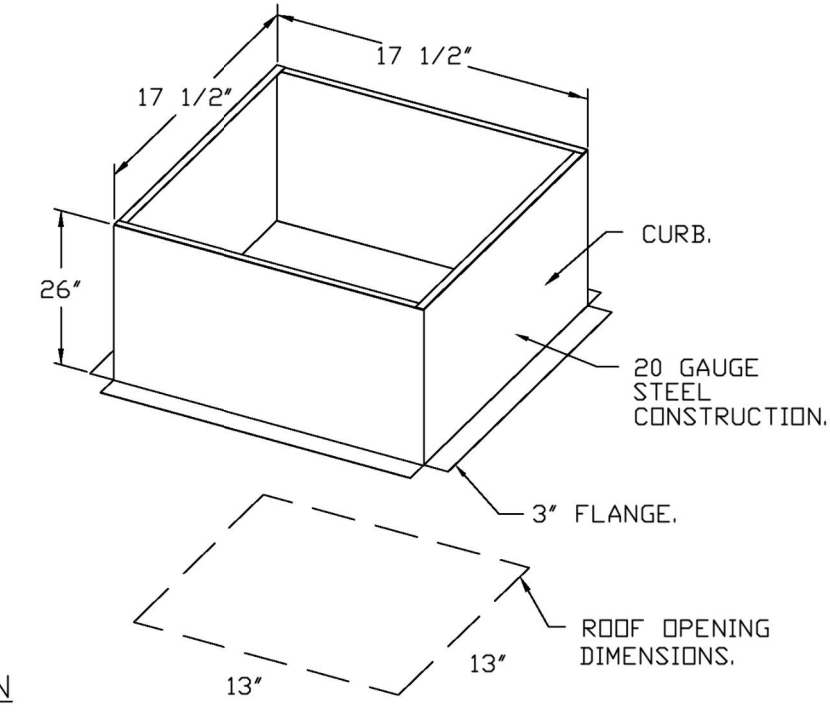
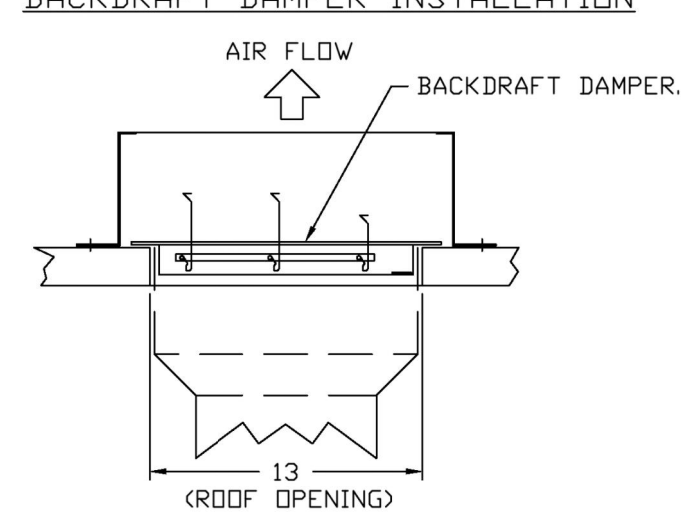
FEATURES:

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

OPTIONS

- 1 1/2-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCD MOTOR), CCV ROTATION.
- 2 YEAR PARTS WARRANTY.

BACKDRAFT DAMPER INSTALLATION



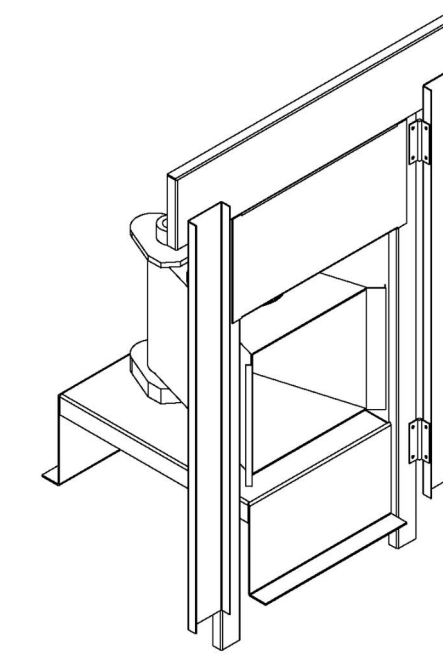
2024-DB#4/P#1-4

HOOD SHOP DRAWING PRODUCED BY  
MANUFACTURER - FOR REFERENCE ONLY

- FAN #3 A1-D250-15D - HEATER (MAU-1)  
 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.  
 2. INTAKE HOOD WITH EZ FILTERS.  
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.  
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.  
 5. GAS PRESSURE GAUGE, 0-30", 2.5" DIAMETER, 1/4" THREAD SIZE.  
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.  
 7. SHIP LOOSE GAS STRAINER TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 3/4" CONNECTION.  
 8. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TF8180S ACTUATOR INCLUDED.  
 9. LOW PRESSURE GAS SWITCH (1" X 6" WC), FACTORY SET AT 2" WC.  
 10. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREVIRE 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.  
 11. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).  
 12. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.  
 13. 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 ANCA 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 14" X 14".

SUPPLY SIDE HEATER INFORMATION:  
 WINTER TEMPERATURE = 18°F. TEMP. RISE = 57°F.  
 BTUs CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 79164.  
 INPUT BTUs AT ALTITUDE OF 0.0 FT. = 86048.  
 OUTPUT BTUs AT ALTITUDE OF 11 FT. = 79133.  
 INPUT BTUs AT ALTITUDE OF 11 FT. = 86014.



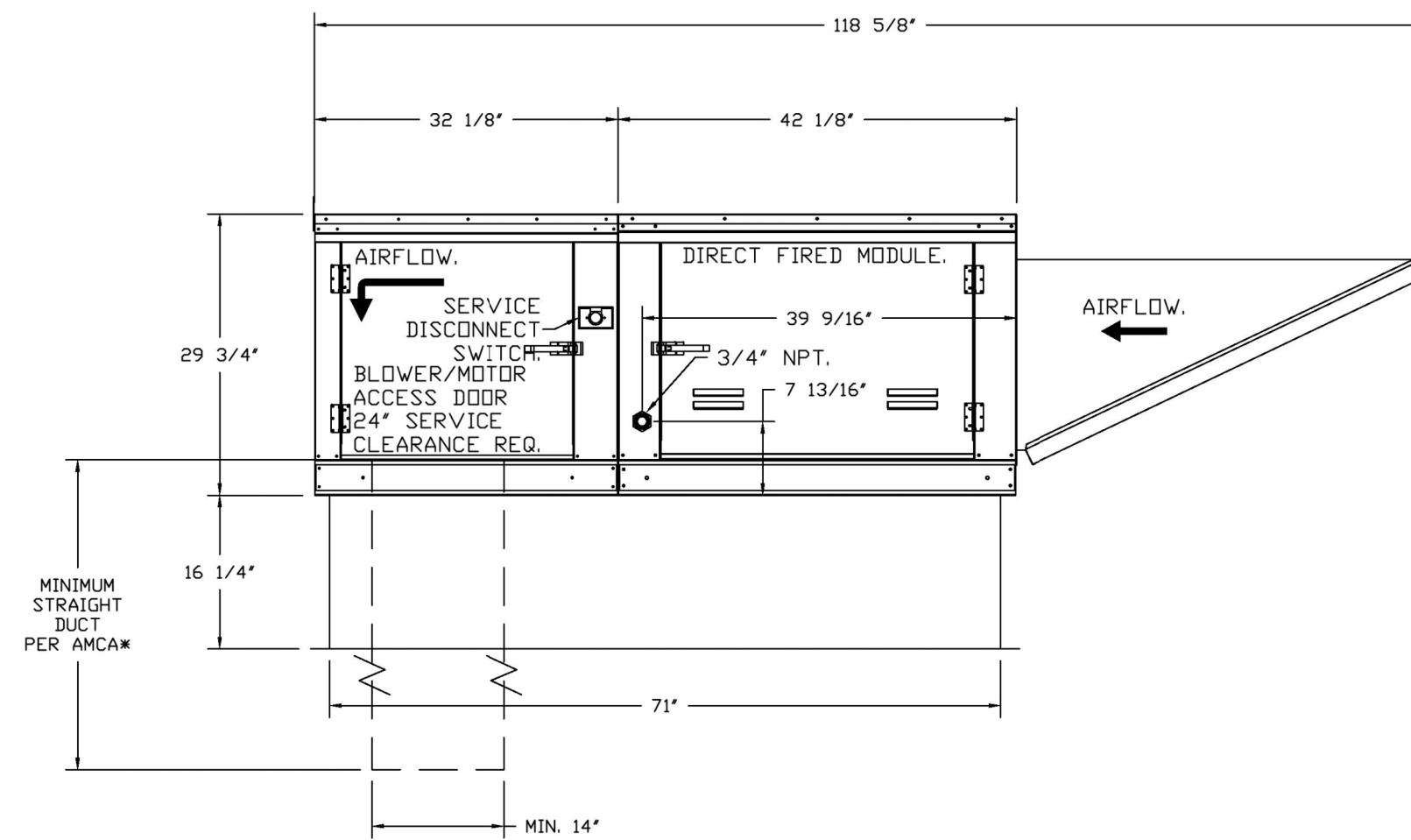
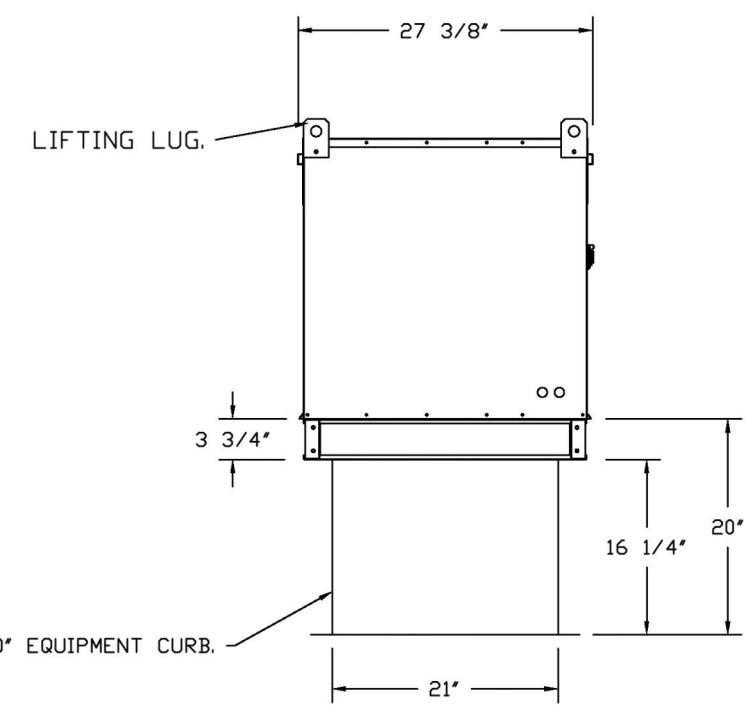
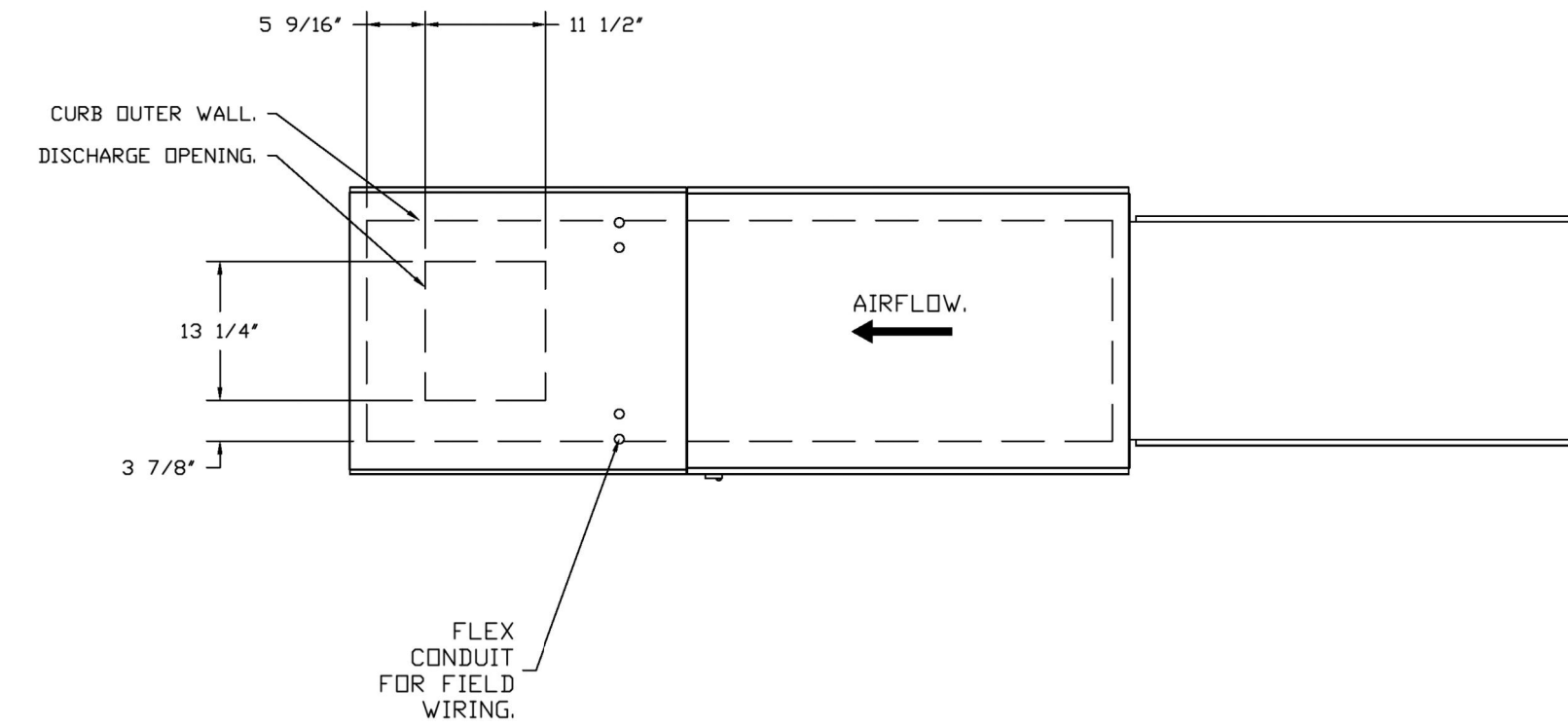
DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

**DIRECT FIRED PROFILE PLATE SPECIFICATIONS:**  
**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6699238B2) 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 5PPM OF CARBON MONOXIDE (CO) AND 0.5PPM 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.

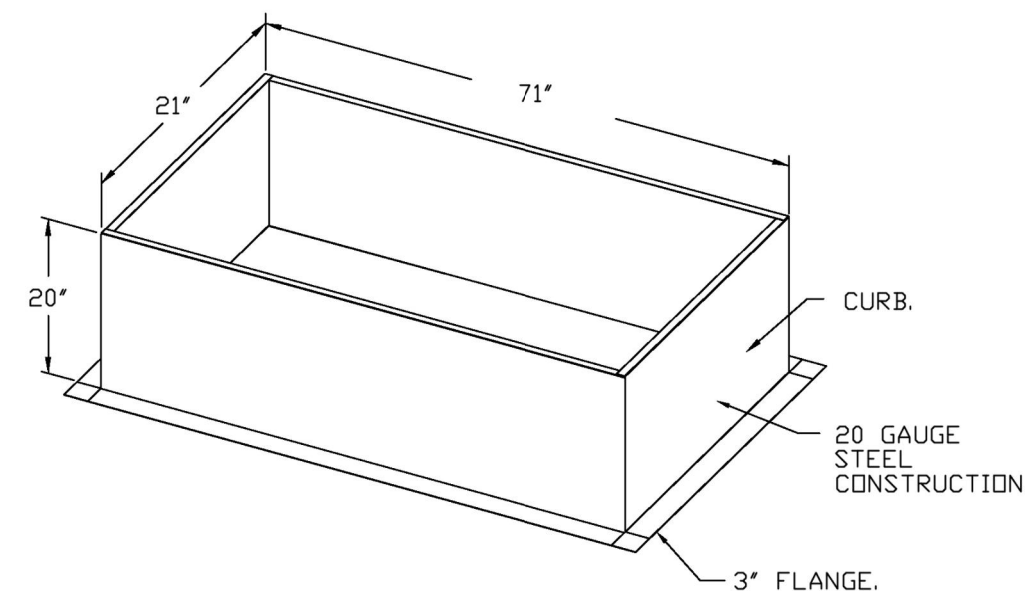
**APPLICATION:**  
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

**CERTIFICATIONS:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S 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.



OPTIONS:  
 - FULL BOTTOM CORNERS.



REVISIONS	
DESCRIPTION	DATE

**CAPTIVEAIRE**  
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 4841 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 975-0420 FAX: 9198750577 EMAIL: reg40@captivate.com  
 www.captiveaire.com

CHIPOTLE LONG BEACH NY #5648 R3  
 175 East Park Avenue,  
 Long Beach, NY, 11561

DATE: 5/16/2025  
 DWG.#: 7515808  
 DRAWN BY:  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING  
 SHEET NO. 4

Consultant:  
**Polaris**  
 Consulting Engineers, PC  
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 Moorestown, NJ 08057  
 (856) 778-5400

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 175/181 EAST PARK AVE.  
 LONG BEACH NY 11561

REV. DATE	DESCRIPTION
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2 07/15/2025	CONSTRUCTION SET

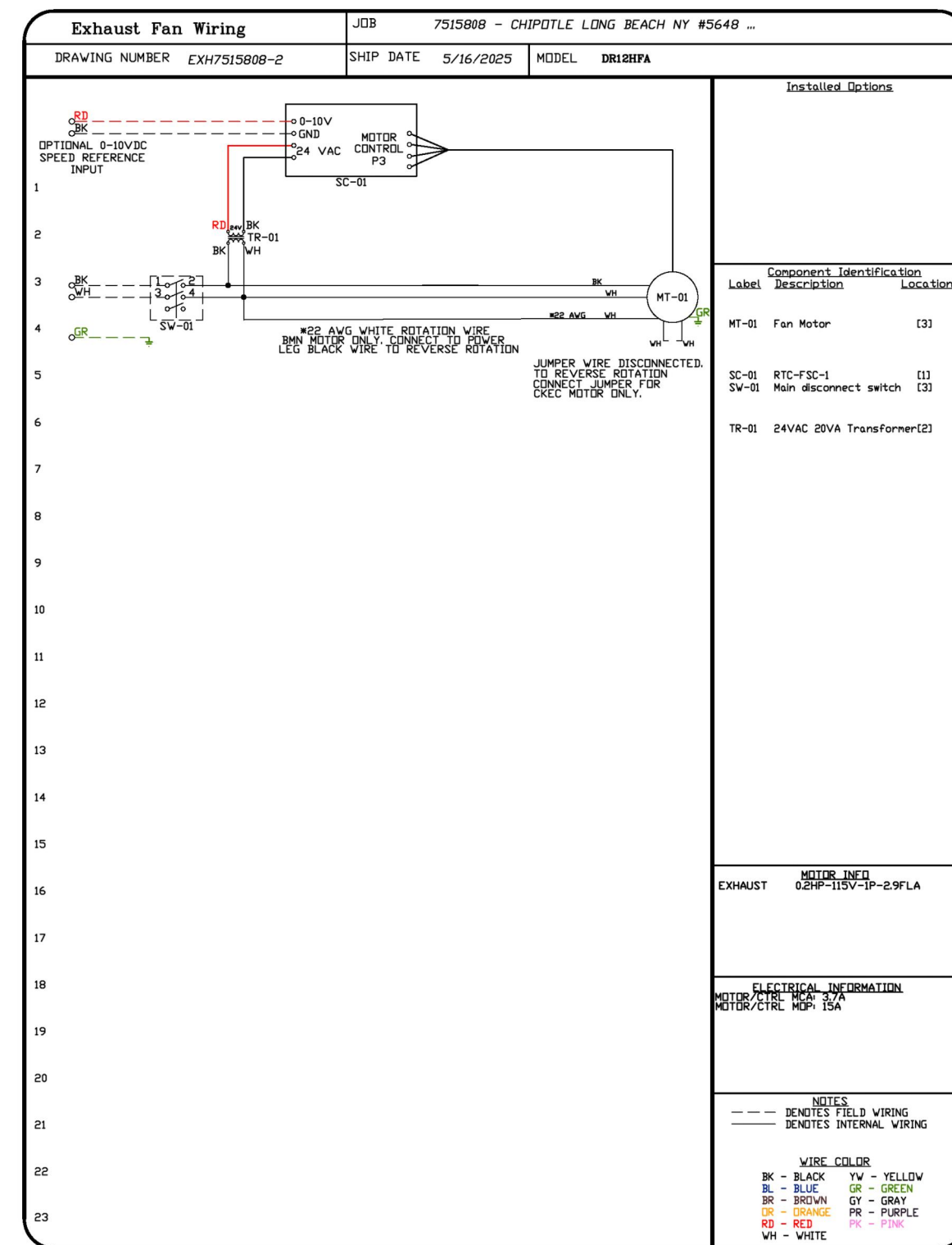
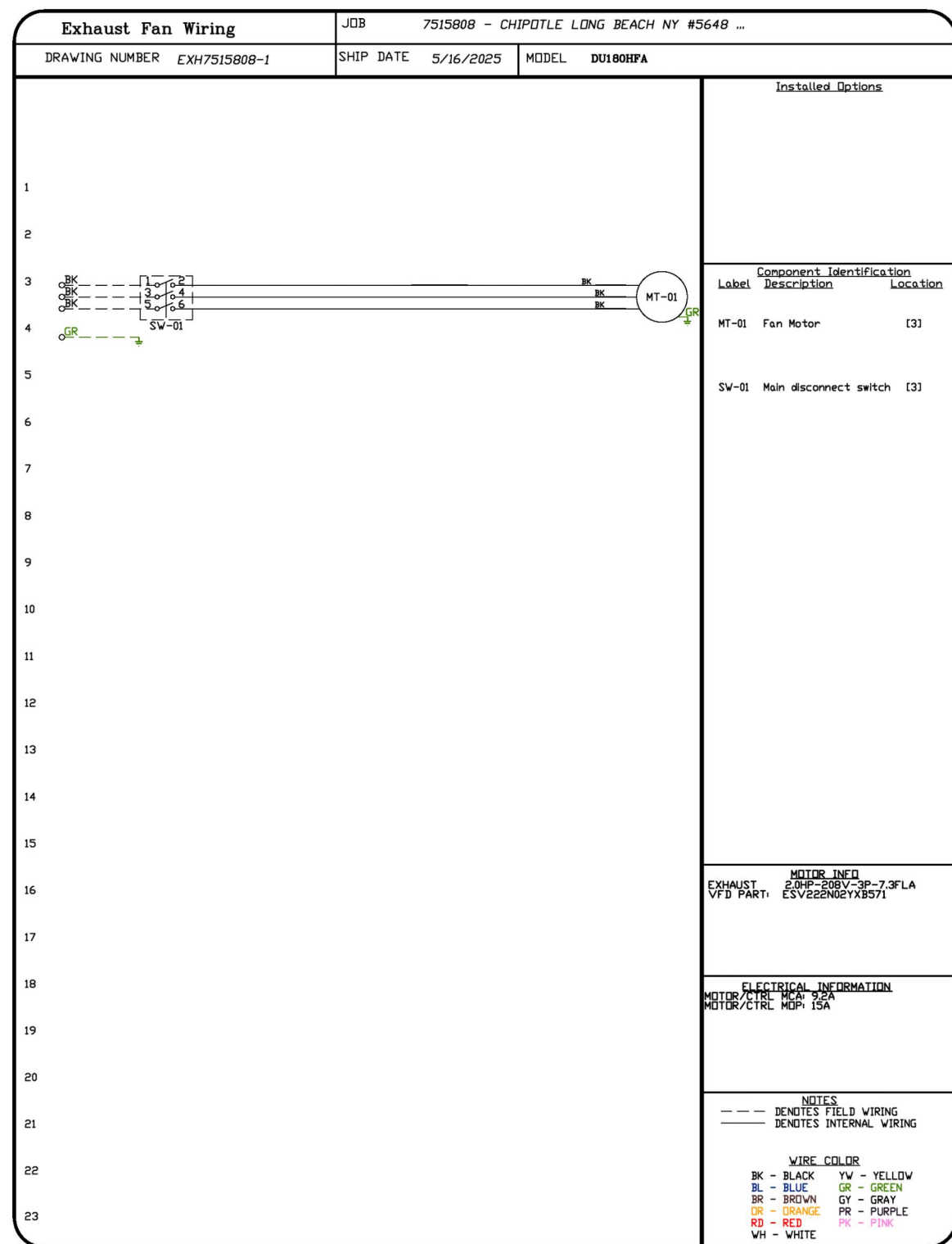
PROFESSIONAL SEAL  
 Anthony J. Scalamandre, P.E.  
 NY License #110381

PROFESSIONAL IN CHARGE: Anthony J. Scalamandre, P.E.  
 DRAWN BY: PCE  
 CHECKED BY: AIS  
 PROJECT NUMBER: 24084

SHEET TITLE:  
 CAPTIVEAIRE  
 DRAWINGS

SHEET NUMBER:  
 M-404  
 6 OF 13

HOOD SHOP DRAWING PRODUCED BY  
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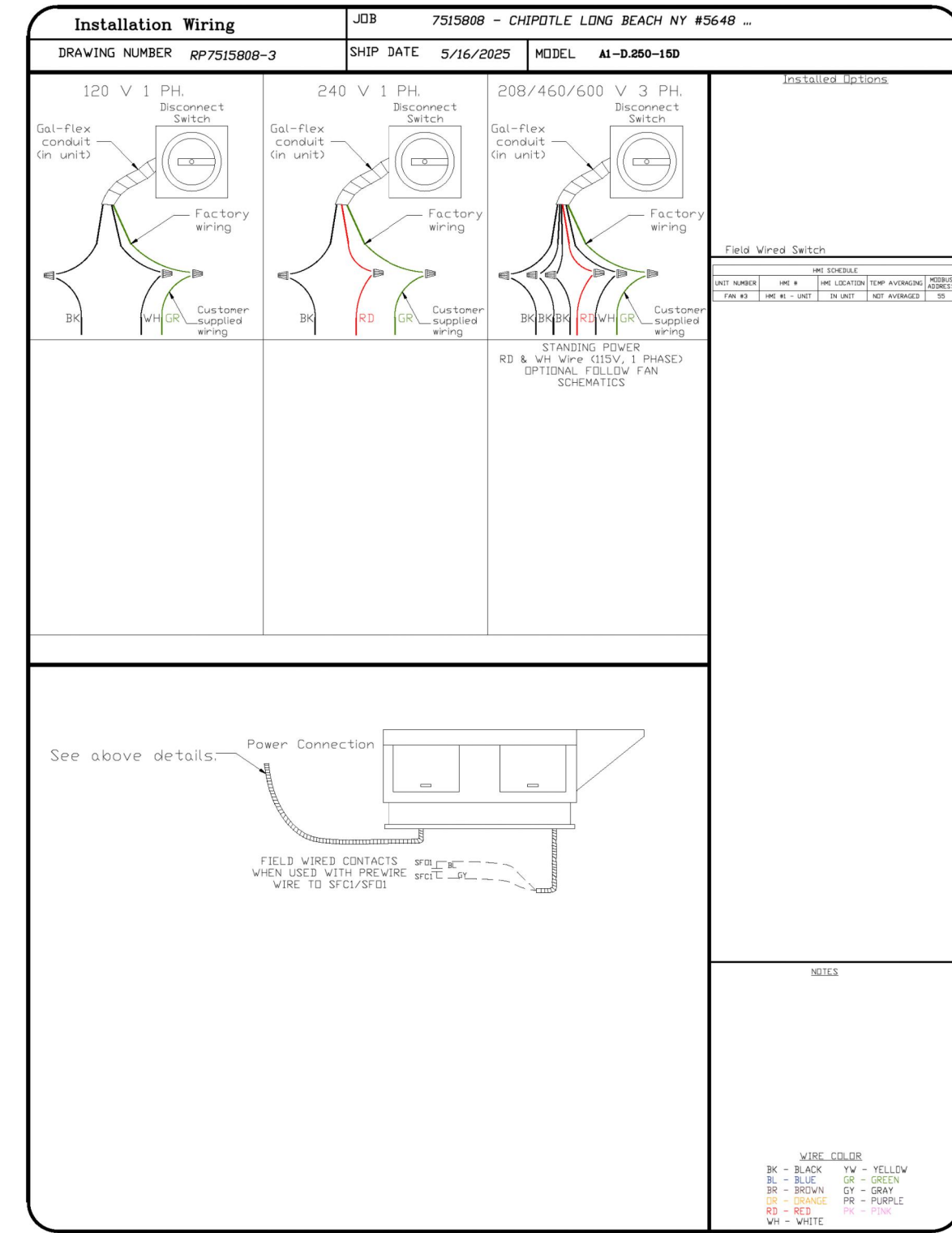
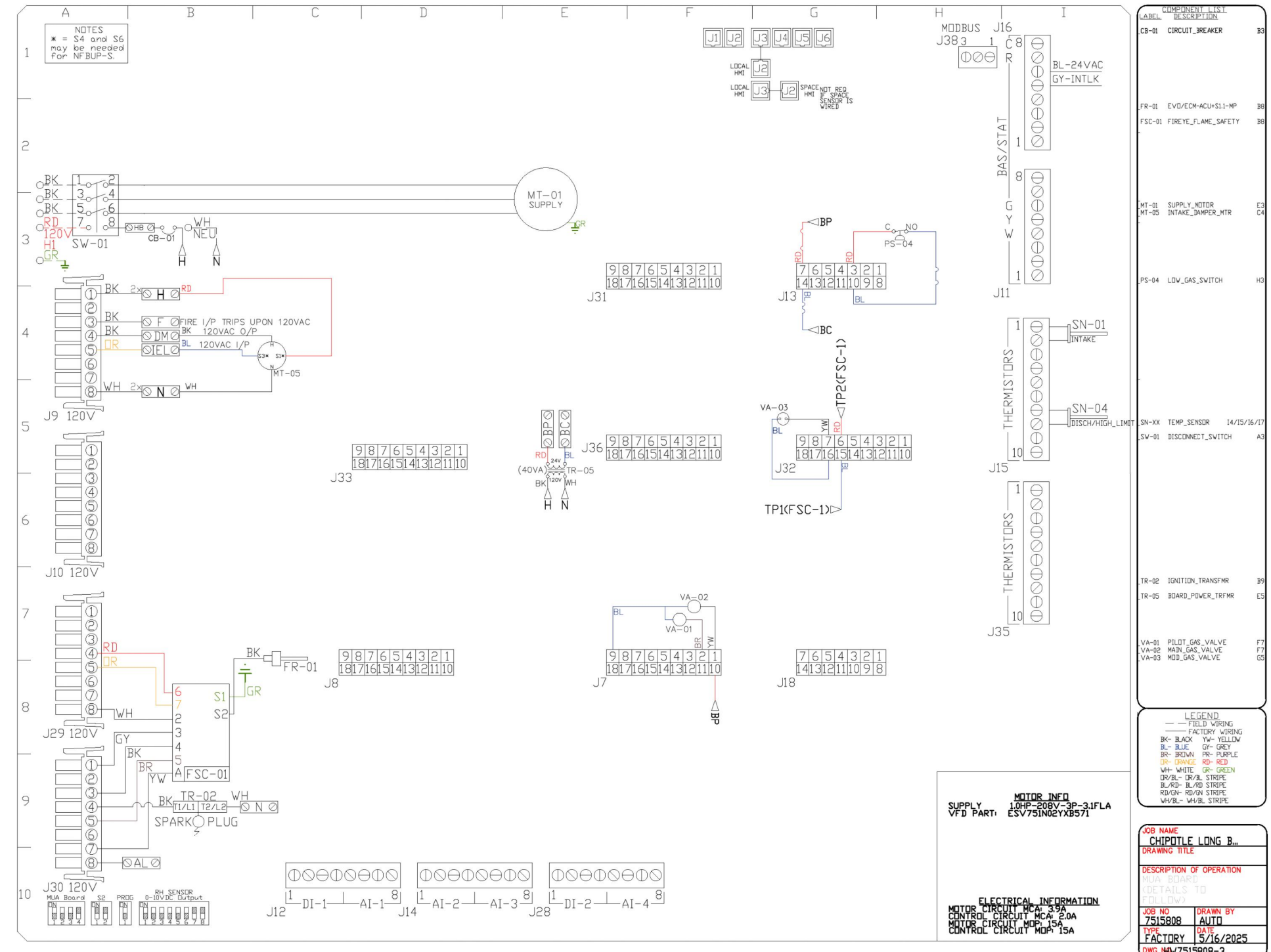


SYSTEM DESIGN VERIFICATION (SDV)

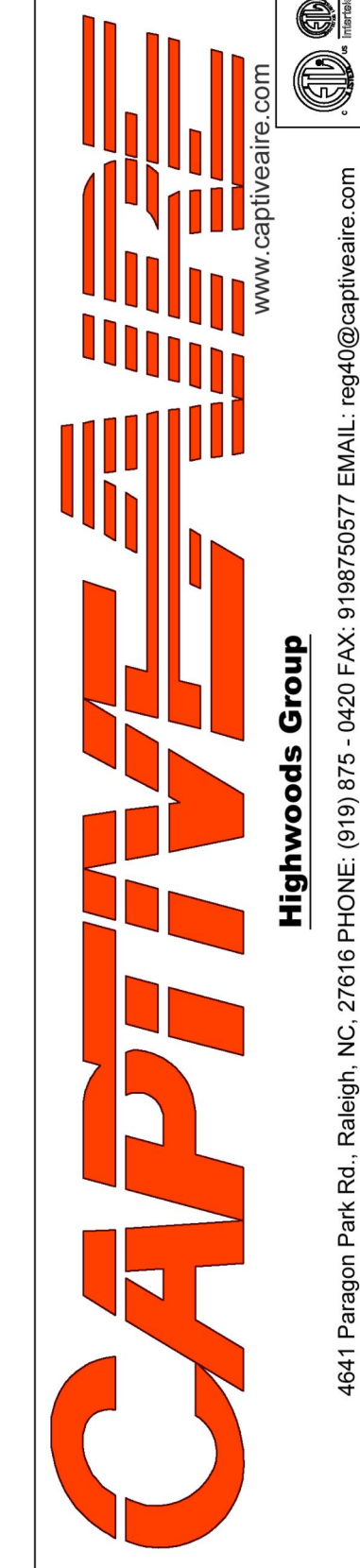
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

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

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



REVISIONS	
DESCRIPTION	DATE



CHIPOTLE LONG BEACH NY #5648 R3  
175 East Park Avenue,  
Long Beach, NY, 11561

DATE: 5/16/2025  
DWG.#: 7515808  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 5

Consultant:  
**Polaris**  
Consulting Engineers, PC  
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PROFESSIONAL SEAL  
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PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.  
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CHECKED BY: AIS  
PROJECT NUMBER: 24084

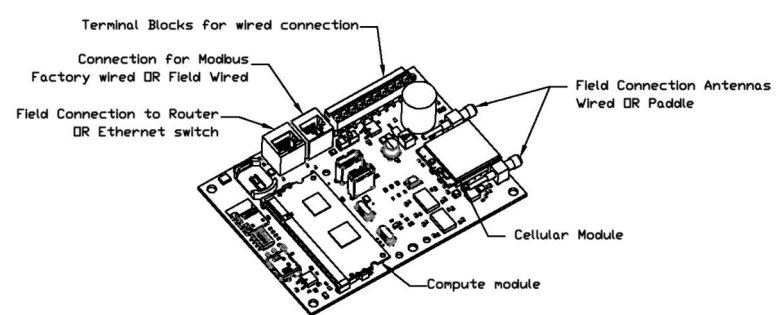
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CAPTIVEAIRE  
DRAWINGS

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M-405  
7 OF 13

HOOD SHOP DRAWING PRODUCED BY  
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ELECTRICAL PACKAGE - JOB#7515808

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-31110MA	WALL MOUNT IN SS BOX	UTILITY CABINET RIGHT	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	MAU-1	SUPPLY	3	1.000	208	3.1

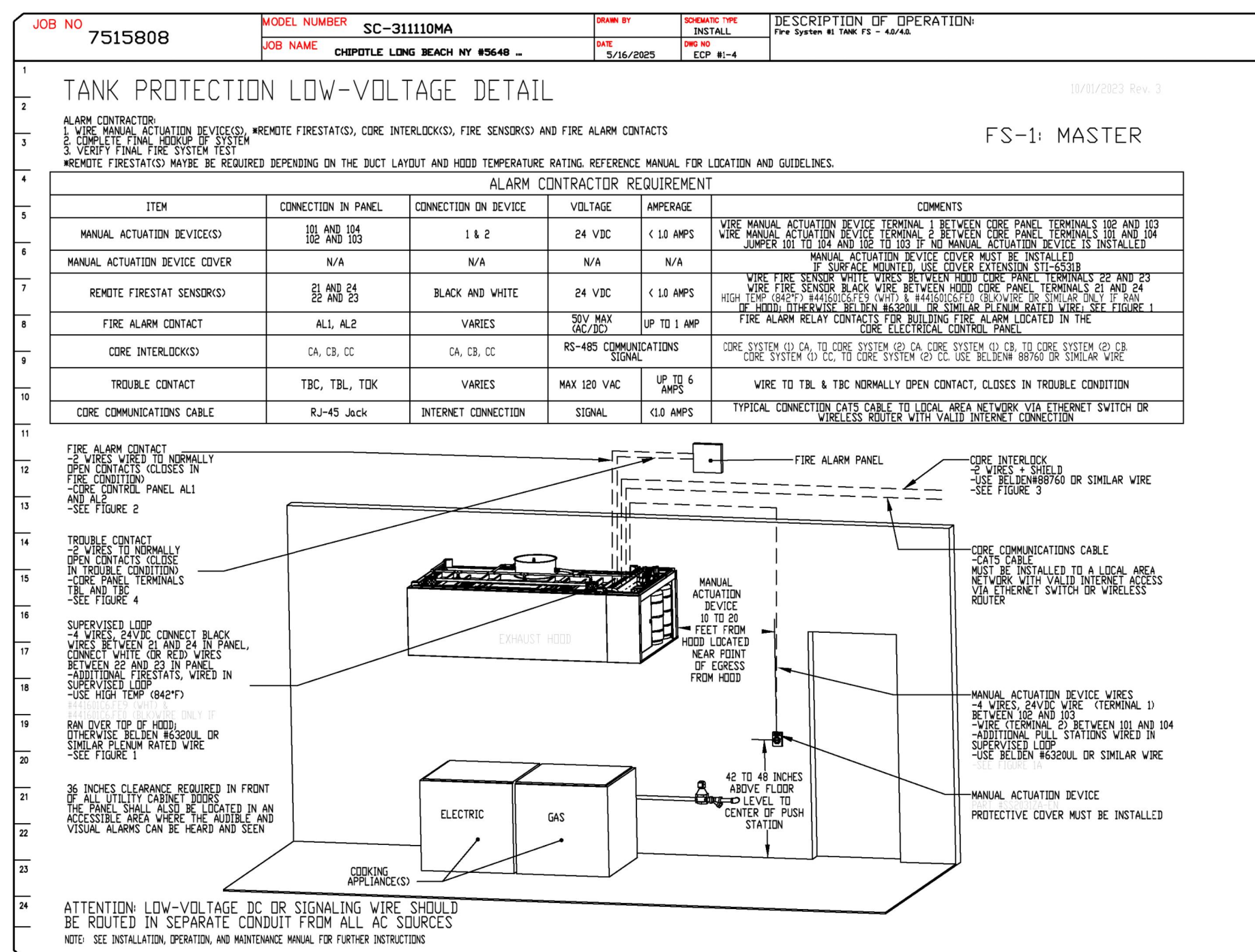
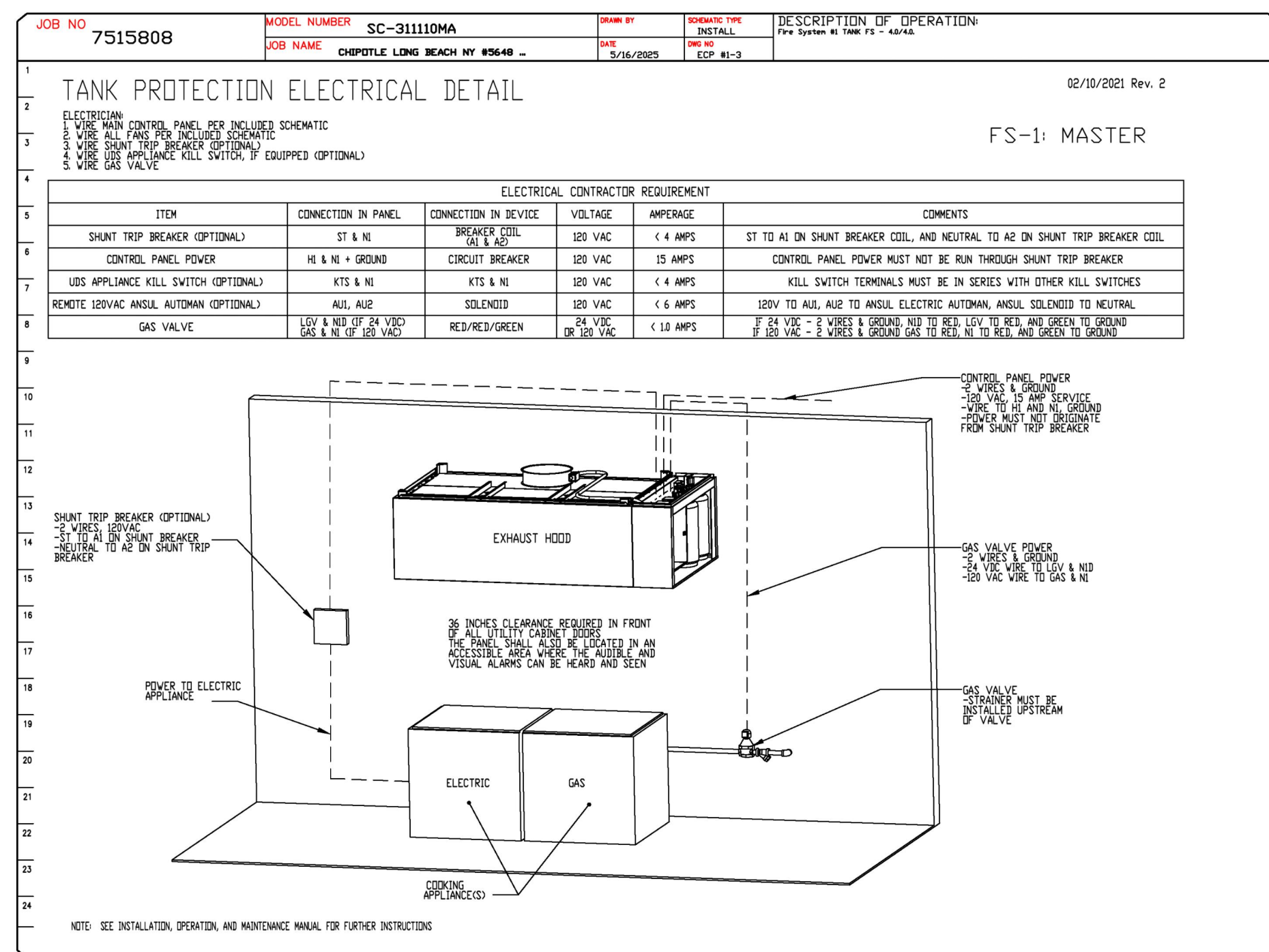
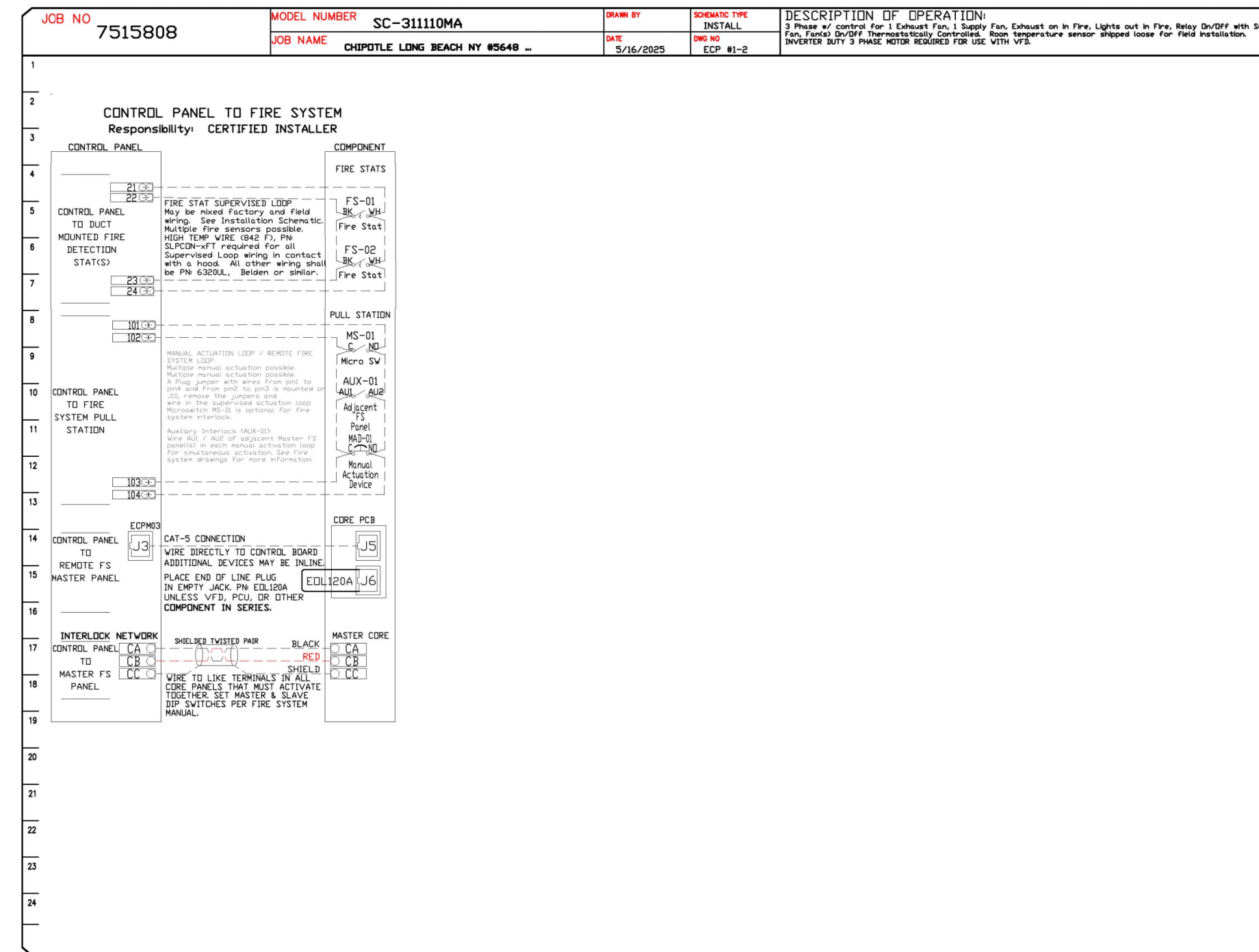
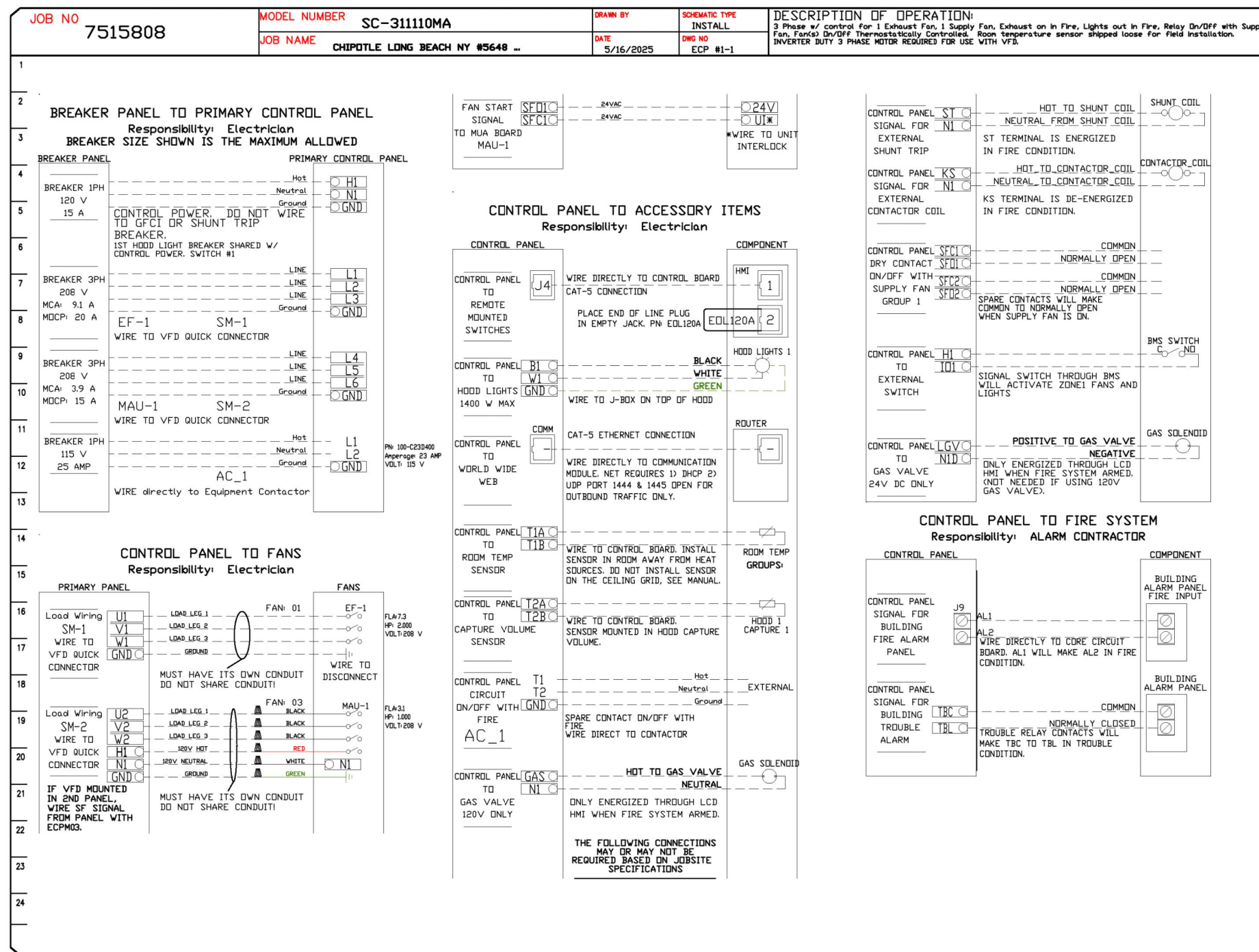


CASlink Monitor and Control

— Hood control panel to support communications to cloud-based Building Management System.  
— Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.  
— Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.  
— Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

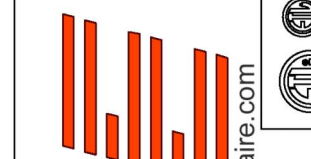
MONITORING AND CONTROL POINTS LIST

DC Packages	Function	AC Packages	Function
Room Temperature	MONITOR	Room Temperature	MONITOR
Heat Temperature	MONITOR	Heat Temperature	MONITOR
MSL Discharge Temperature	MONITOR	MSL Discharge Temperature	MONITOR
Aluminum RTU Discharge Temperature	MONITOR	Aluminum RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controler Faults	MONITOR
Fan Amperage	MONITOR	Fan Status	MONITOR
Fan Power	MONITOR	PCV Faults	MONITOR
PCV Faults	MONITOR	PCV Filter Chg Percentages	MONITOR
Controler Faults	MONITOR	Fan Faults	MONITOR
Fan Status	MONITOR	Fire Condition	MONITOR
PCV Filter Chg Percentages	MONITOR	CORE Fire System	MONITOR
Fan Faults	MONITOR	Building Pressure	MONITOR
PCV Filter Chg Percentages	MONITOR	Prop Flow Status	MONITOR & CONTROL
Fire Condition	MONITOR	Flash Status	MONITOR & CONTROL
CORE Fire System	MONITOR	Flash Status	MONITOR & CONTROL
Building Pressure	MONITOR		
Prop Flow Status	MONITOR & CONTROL		
Flash Status	MONITOR & CONTROL		
Flash Status	MONITOR & CONTROL		



REVISIONS

NO	DESCRIPTION	DATE
1		
2		
3		
4		



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DATE: 5/16/2025  
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SCALE: 3/4" = 1'-0"  
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DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

24084

SHEET TITLE:

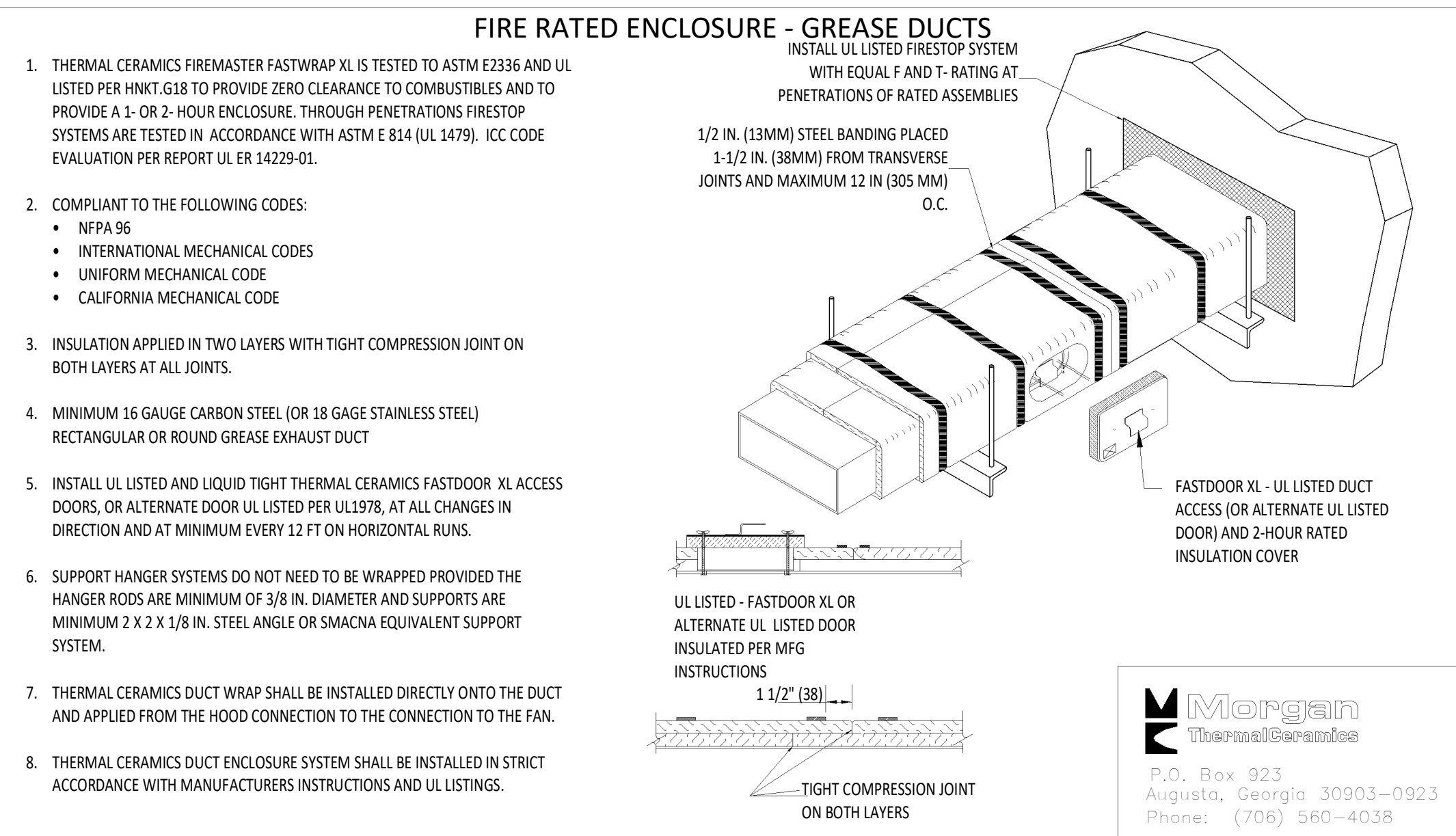
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DRAWINGS

SHEET NUMBER:

M-406

8 OF 13

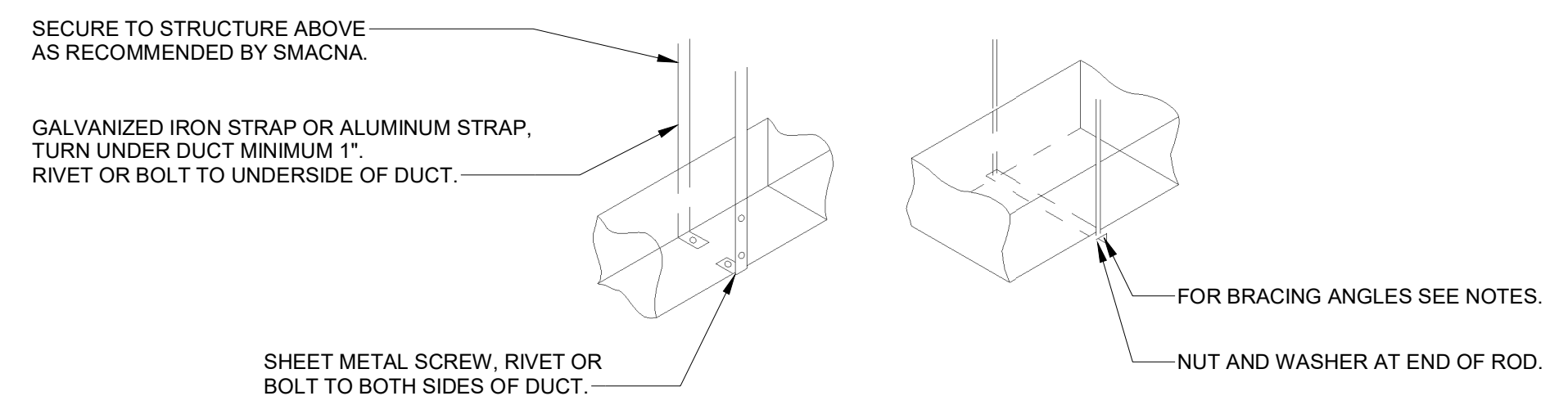




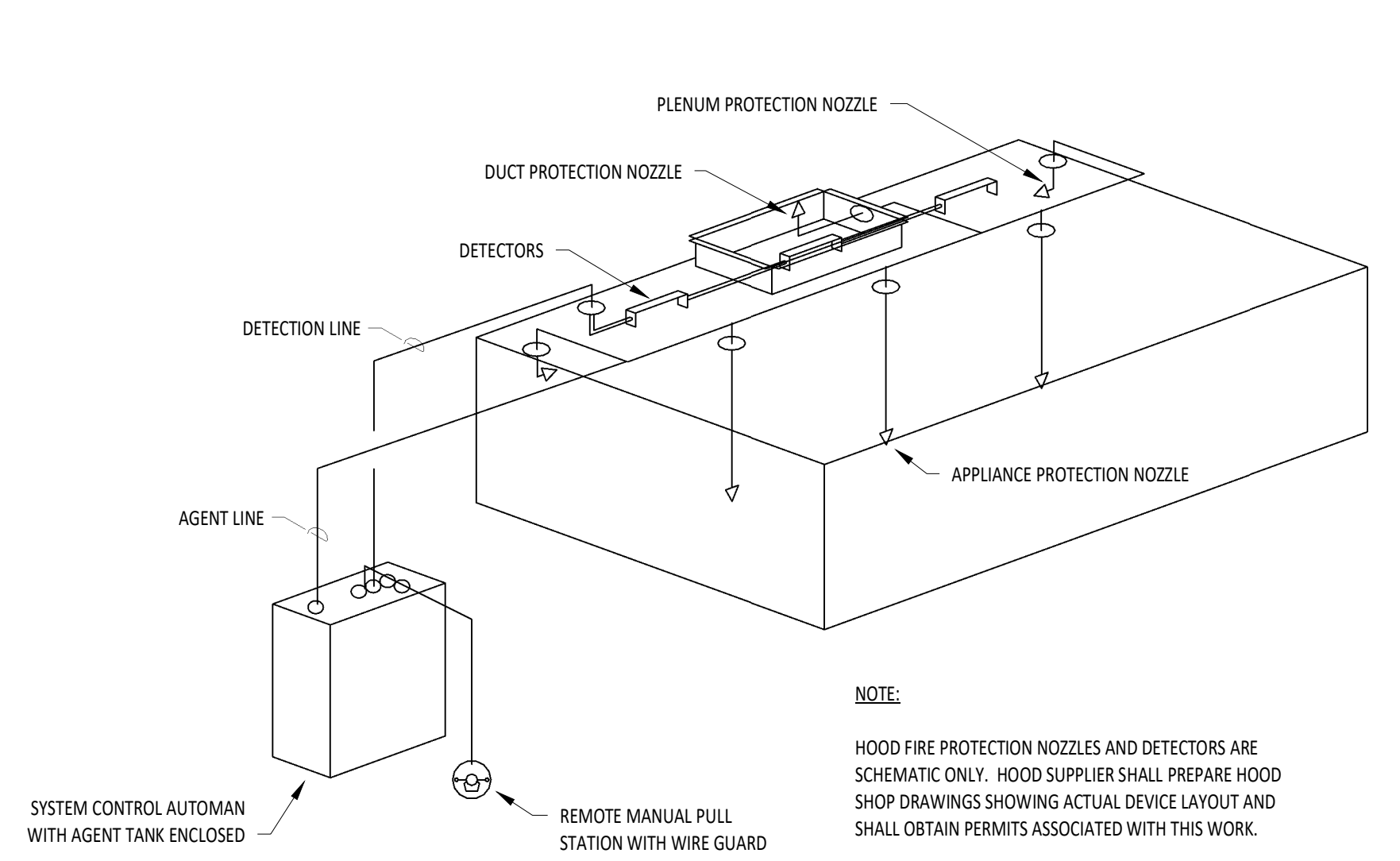
**1 FIREMASTER DUCT WRAP - UL HNKT-G18 NOT TO SCALE**

### RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

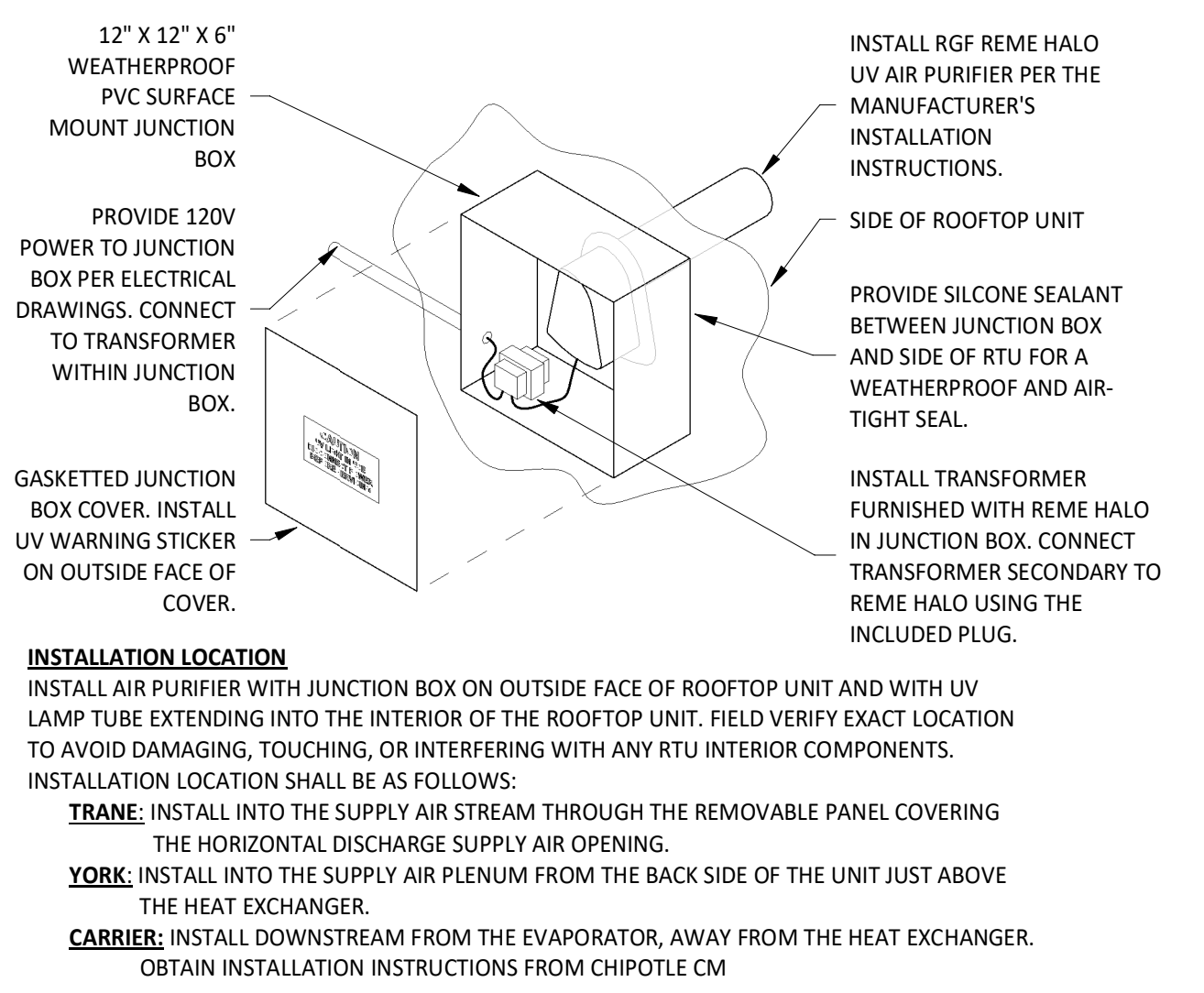
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30"	1"x22 GA.	10 GA. (0.135")	1"x22 GA.	10 GA. (0.135")	1"x22 GA.	12 GA. (0.106")	1"x22 GA.	12 GA. (0.106")
P/2<72"	1"x18 GA.	3/8"	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"



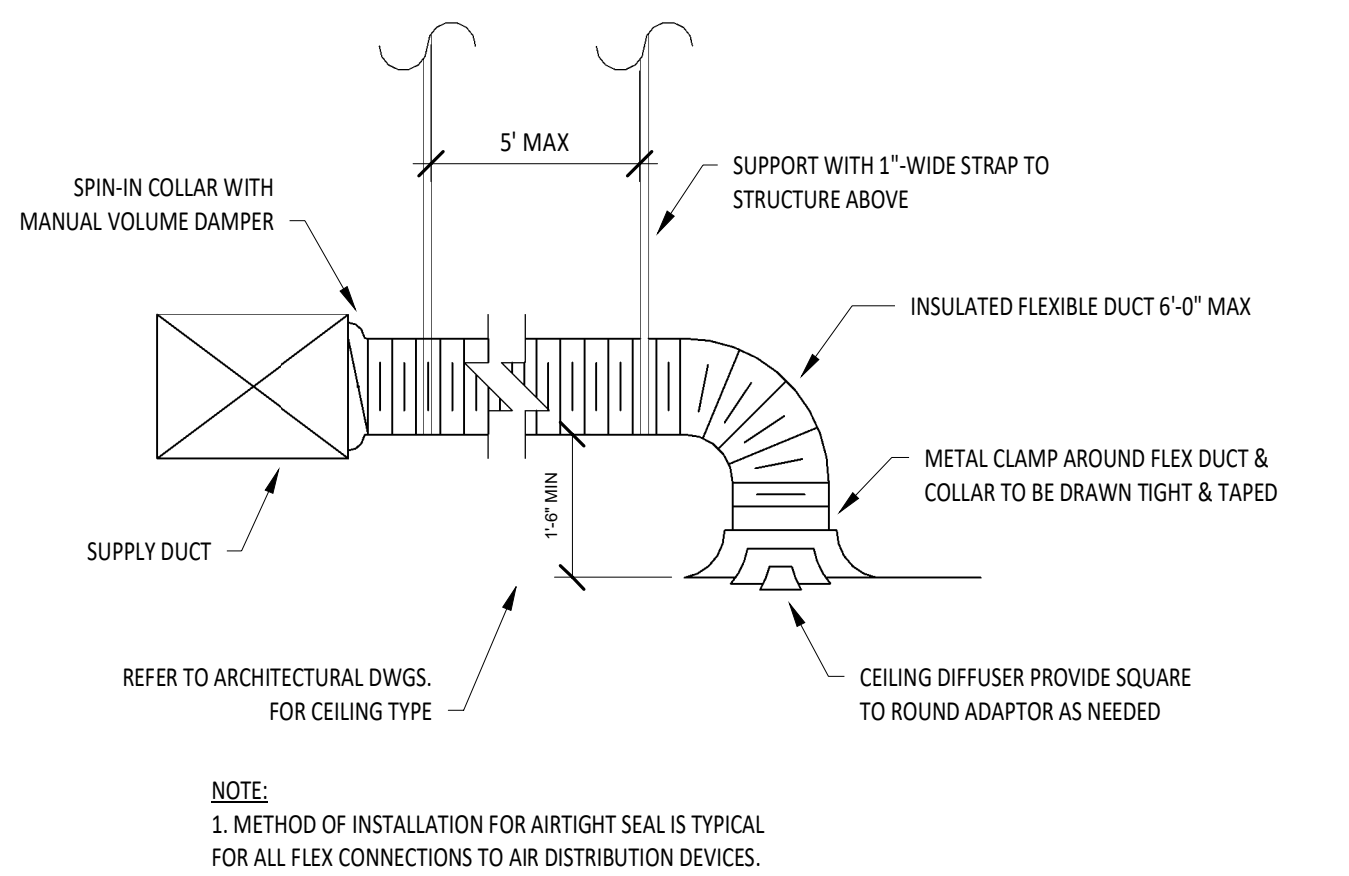
**3 HVAC - DUCT HANGER DETAILS NOT TO SCALE**



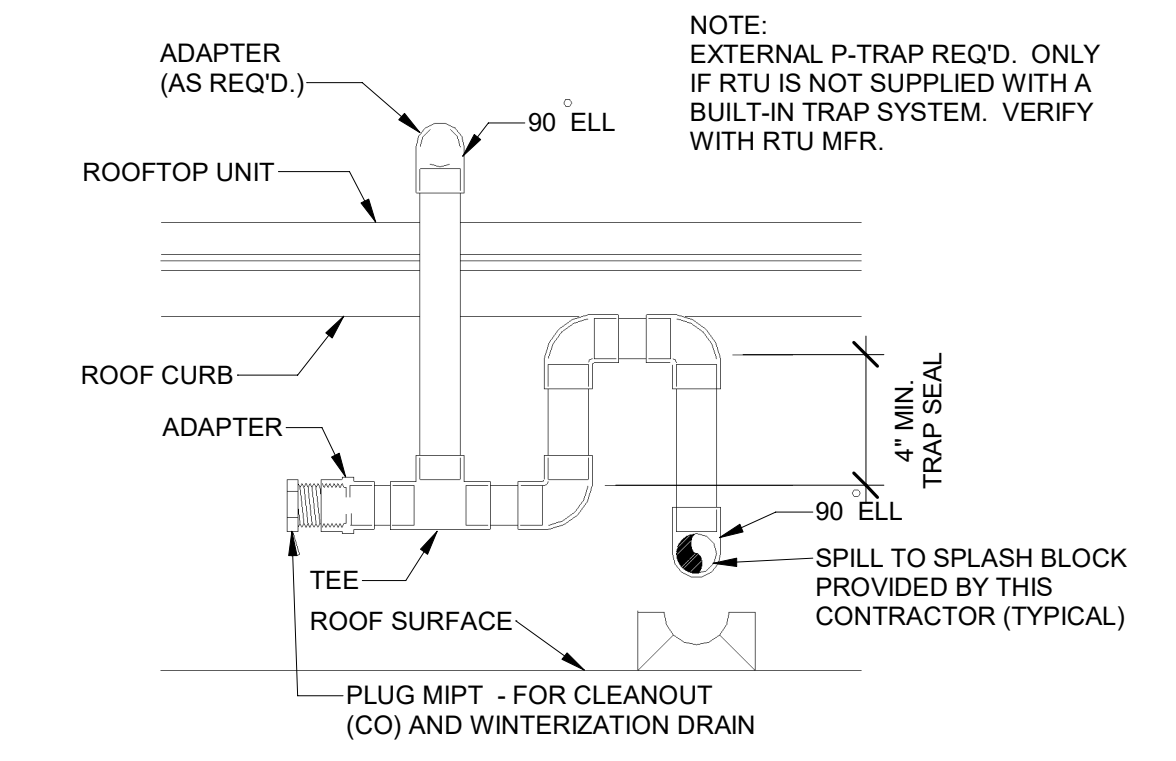
**4 HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC NOT TO SCALE**



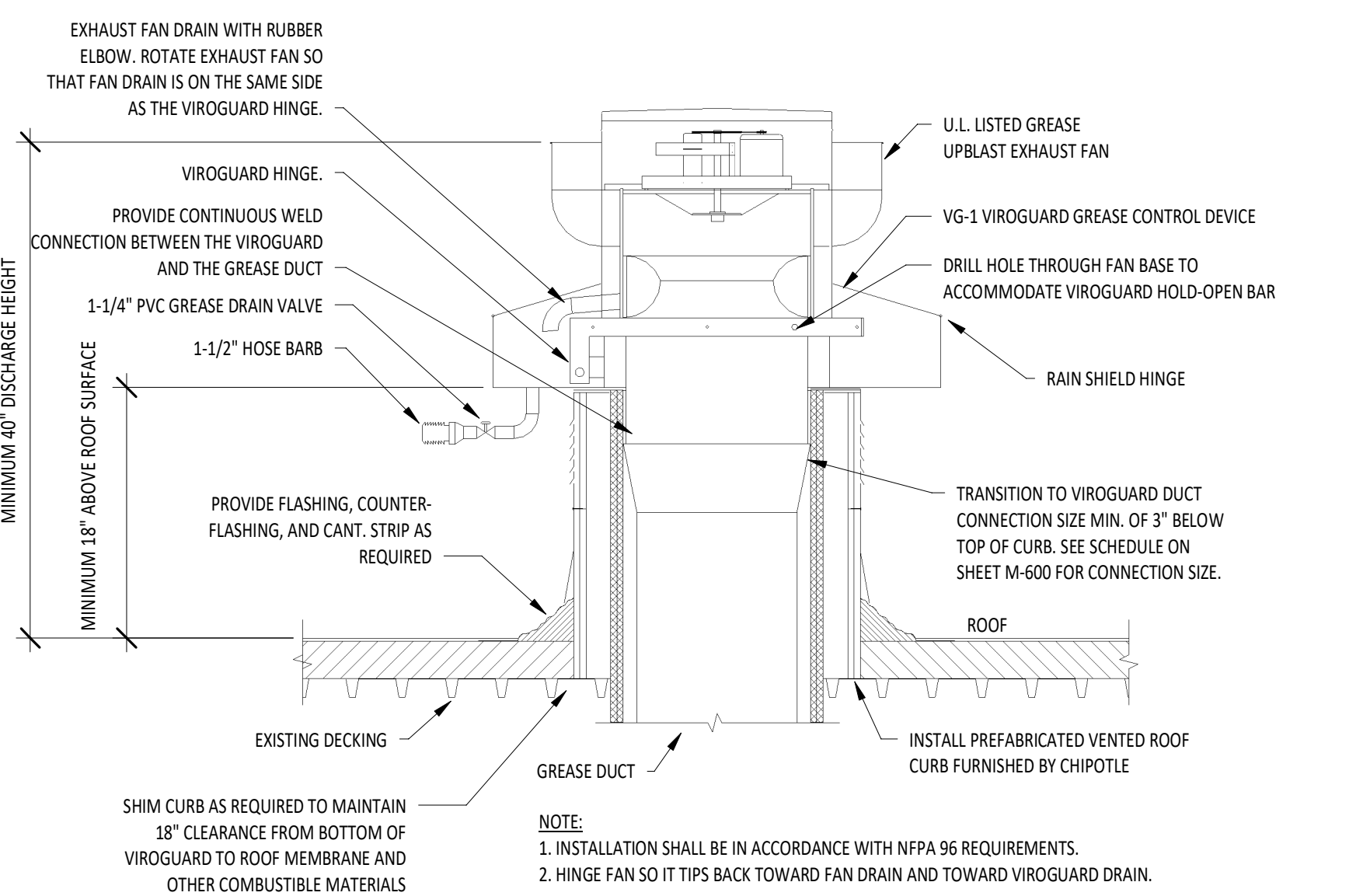
**5 UV AIR PURIFIER INSTALLATION NOT TO SCALE**



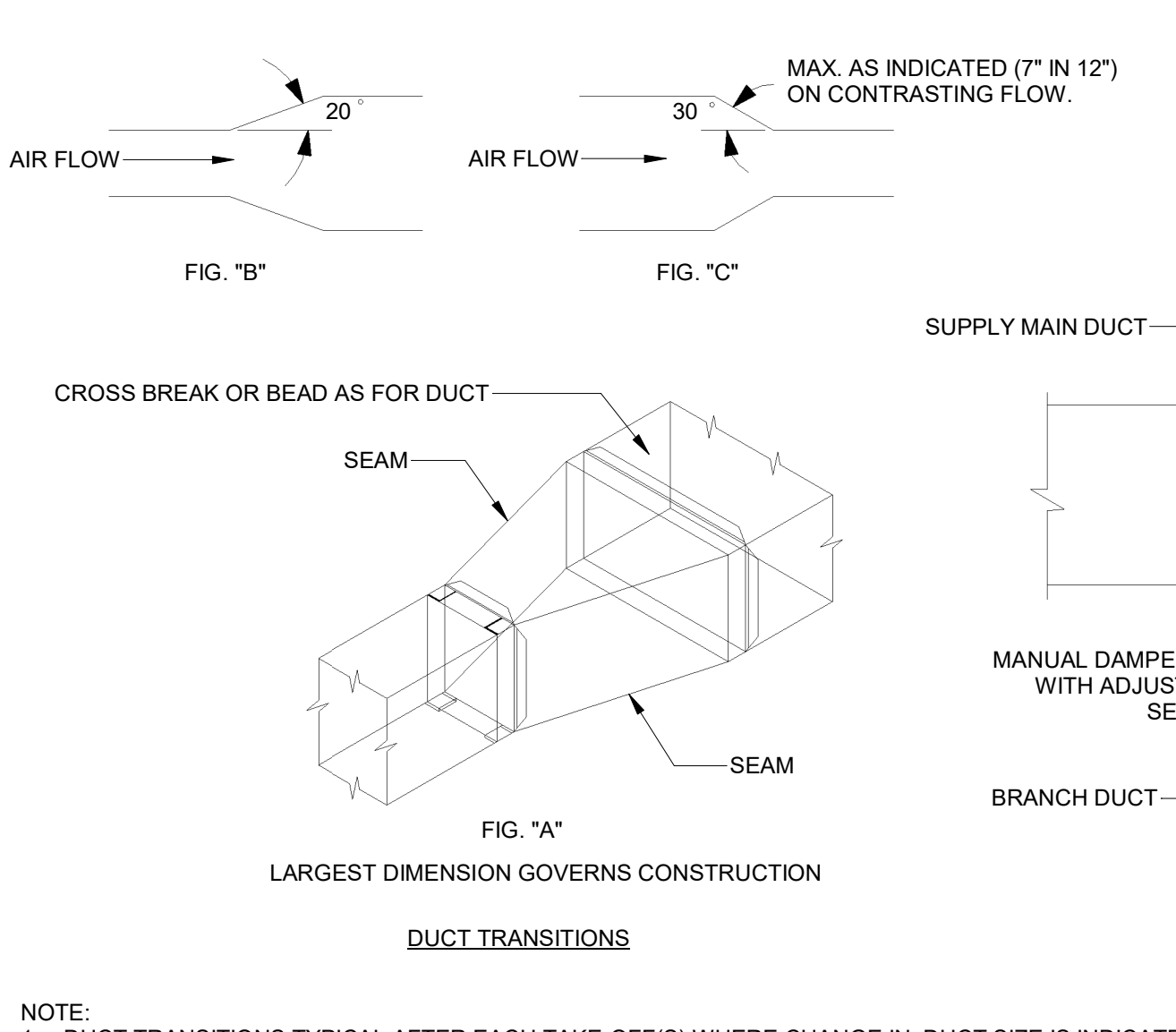
**6 HVAC - DIFFUSER CONNECTION NOT TO SCALE**



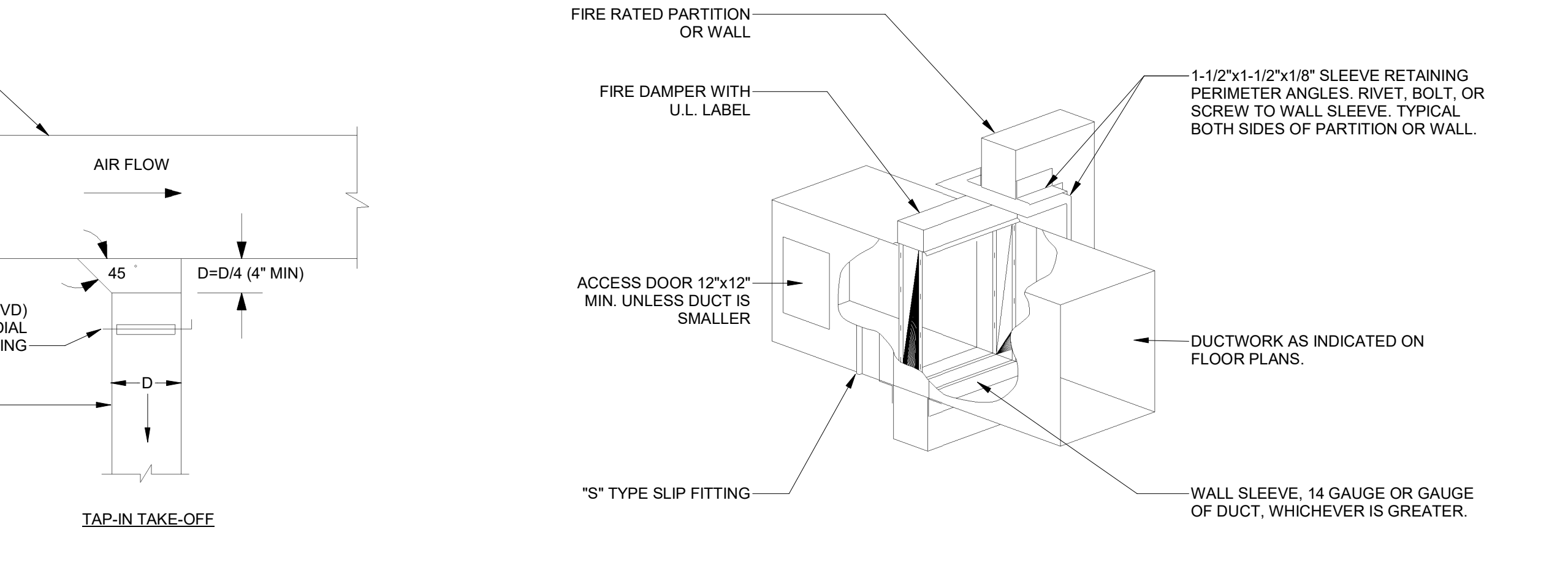
**7 HVAC - CONDENSATE PIPING FROM RTU NOT TO SCALE**



**8 GREASE EXHAUST FAN NOT TO SCALE**



**9 HVAC - DUCT TRANSITION DETAILS NOT TO SCALE**



**10 HVAC - FIRE DAMPER DETAIL NOT TO SCALE**

2024-DB#4/P#1-4

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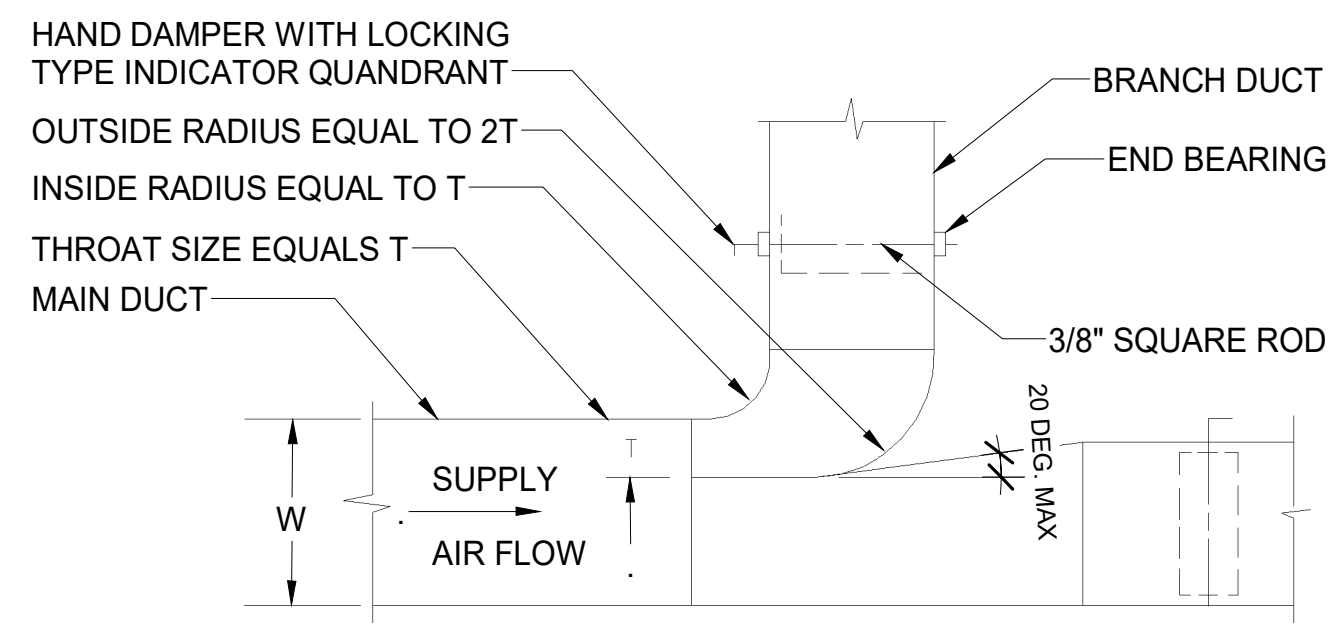
STORE NO.: 31-5648  
LONG BEACH NY  
175/181 EAST PARK AVE.  
LONG BEACH NY 11561

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PROFESSIONAL SEAL

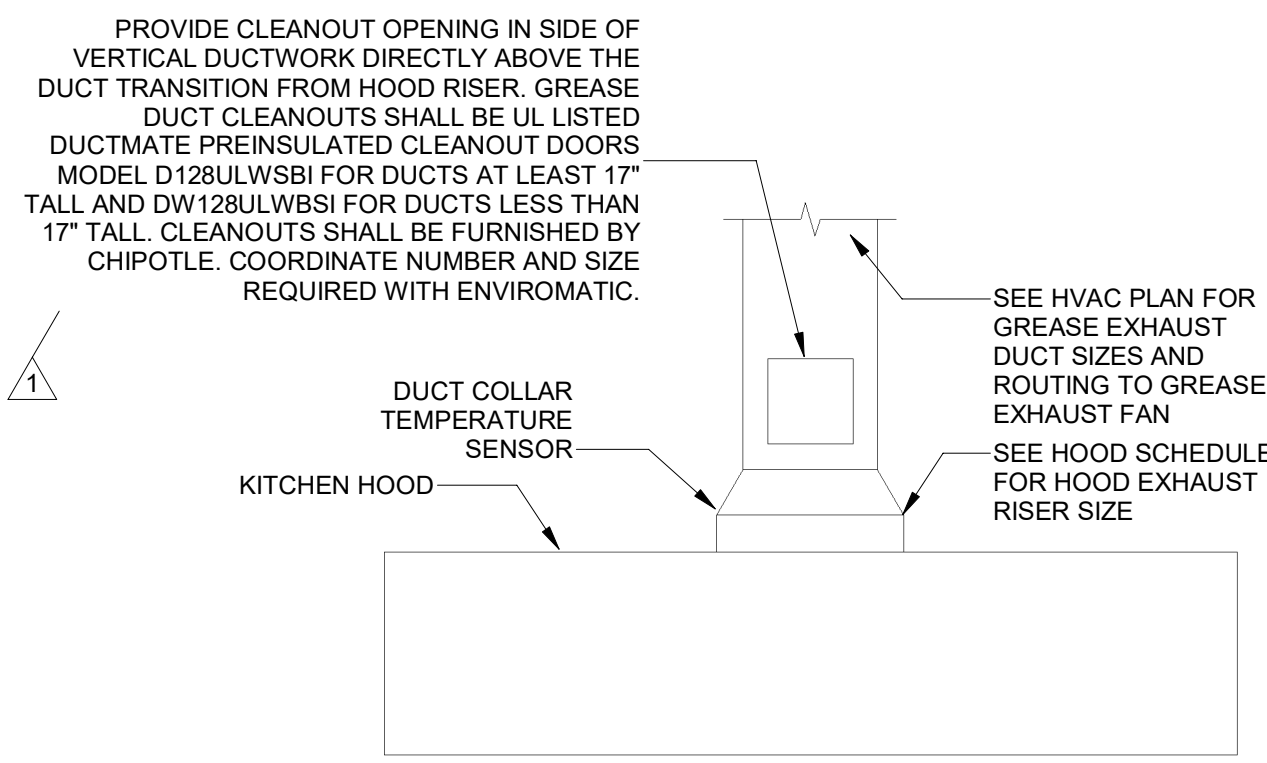
Anthony J. Scalomandre, P.E.  
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PROFESSIONAL IN CHARGE: Anthony J. Scalomandre, P.E.  
DRAWN BY: PCE  
CHECKED BY: AIS  
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24084  
SHEET TITLE:

**HVAC DETAILS**

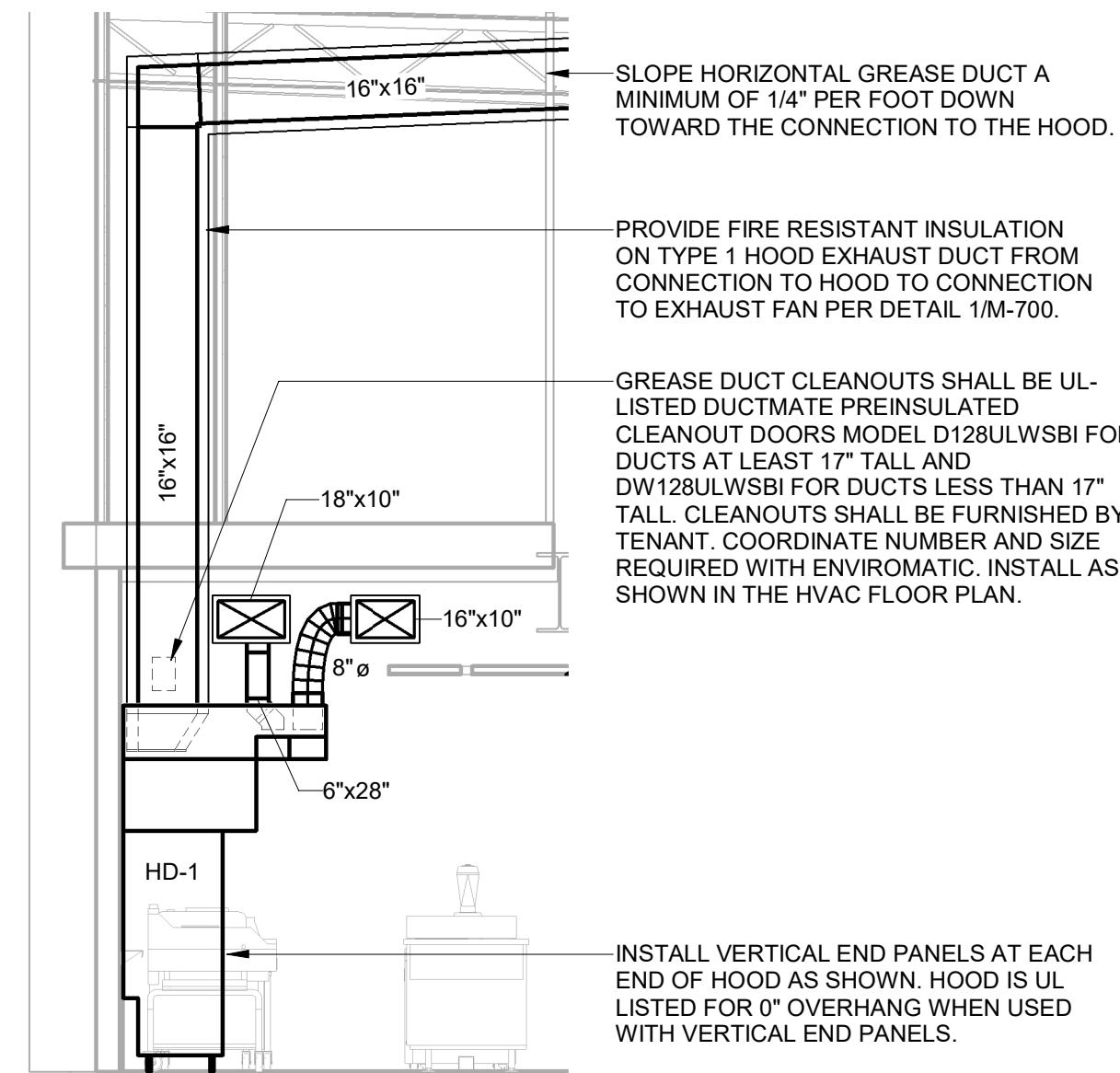


- NOTES:
- FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM.
  - MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
  - MINIMUM T = 4".

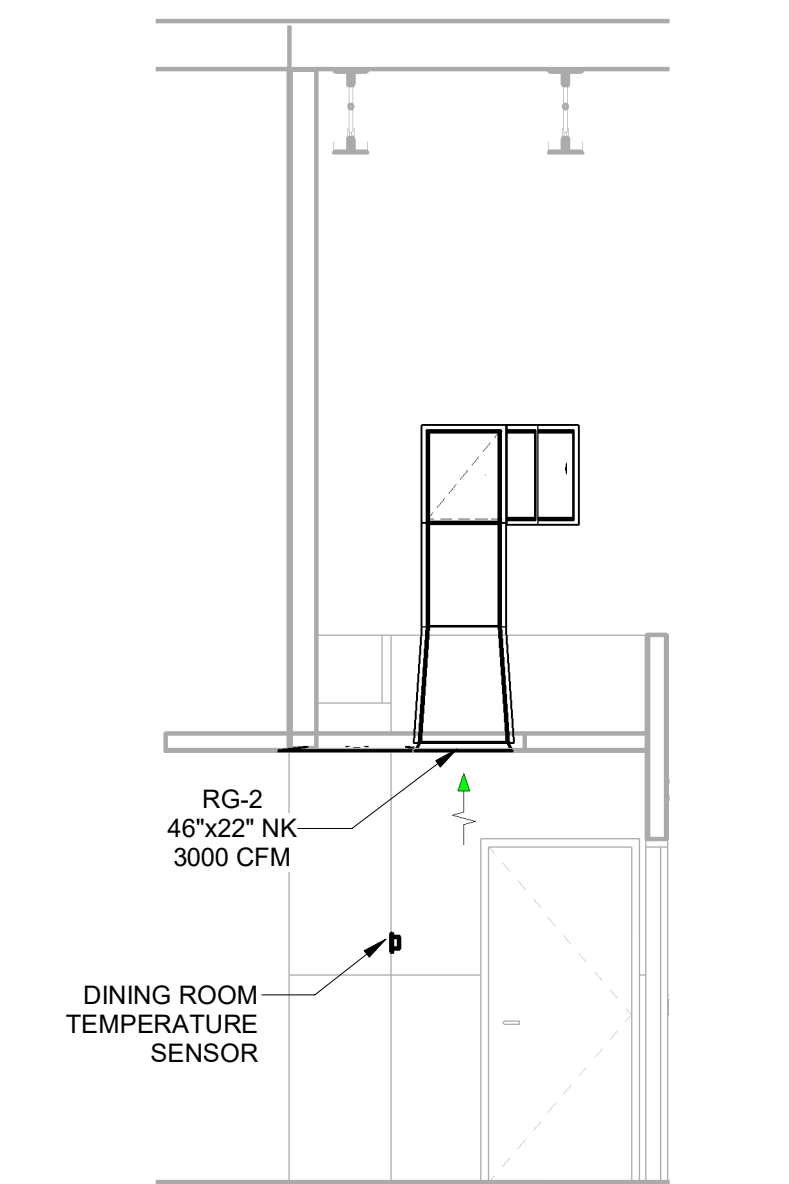
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NOT TO SCALE



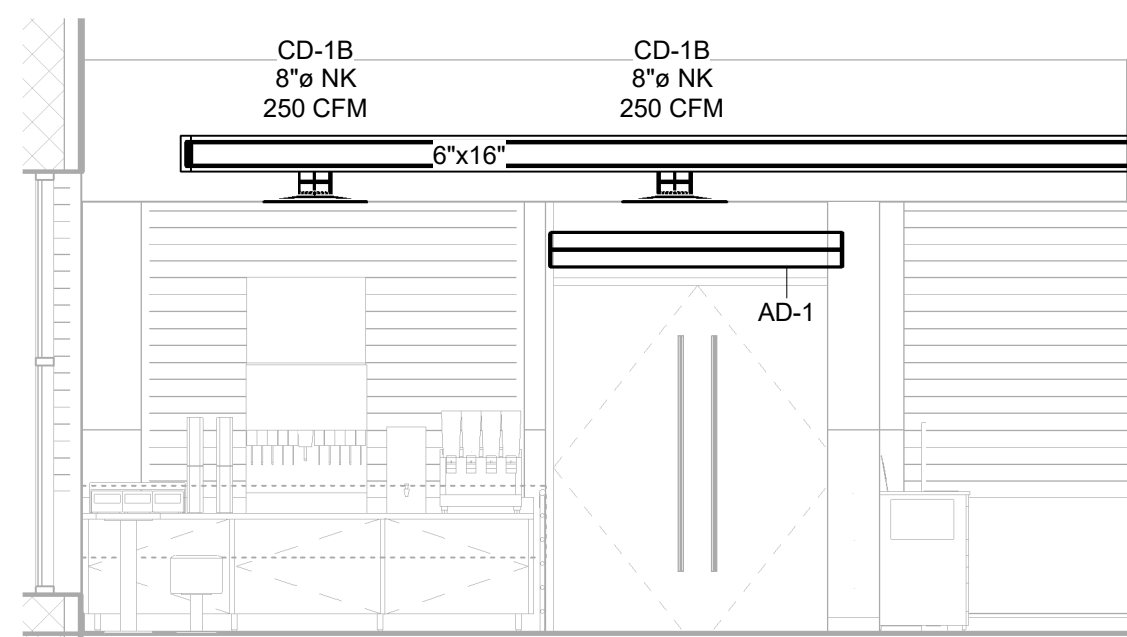
2 HVAC - GREASE EXHAUST DUCT AT HOOD  
NOT TO SCALE



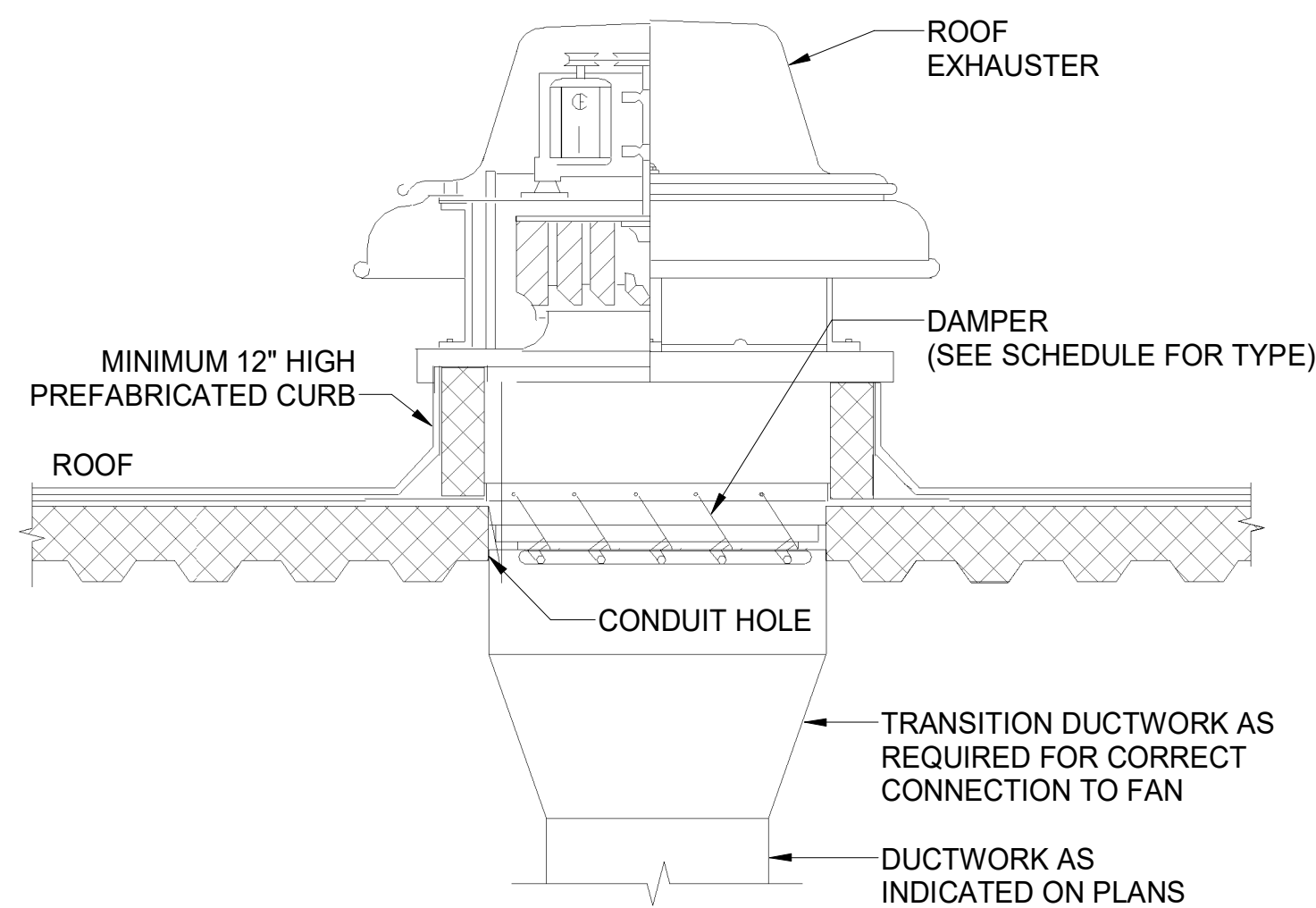
3 HVAC - HOOD DUCTWORK SECTION 'A'  
1/4" = 1'-0"



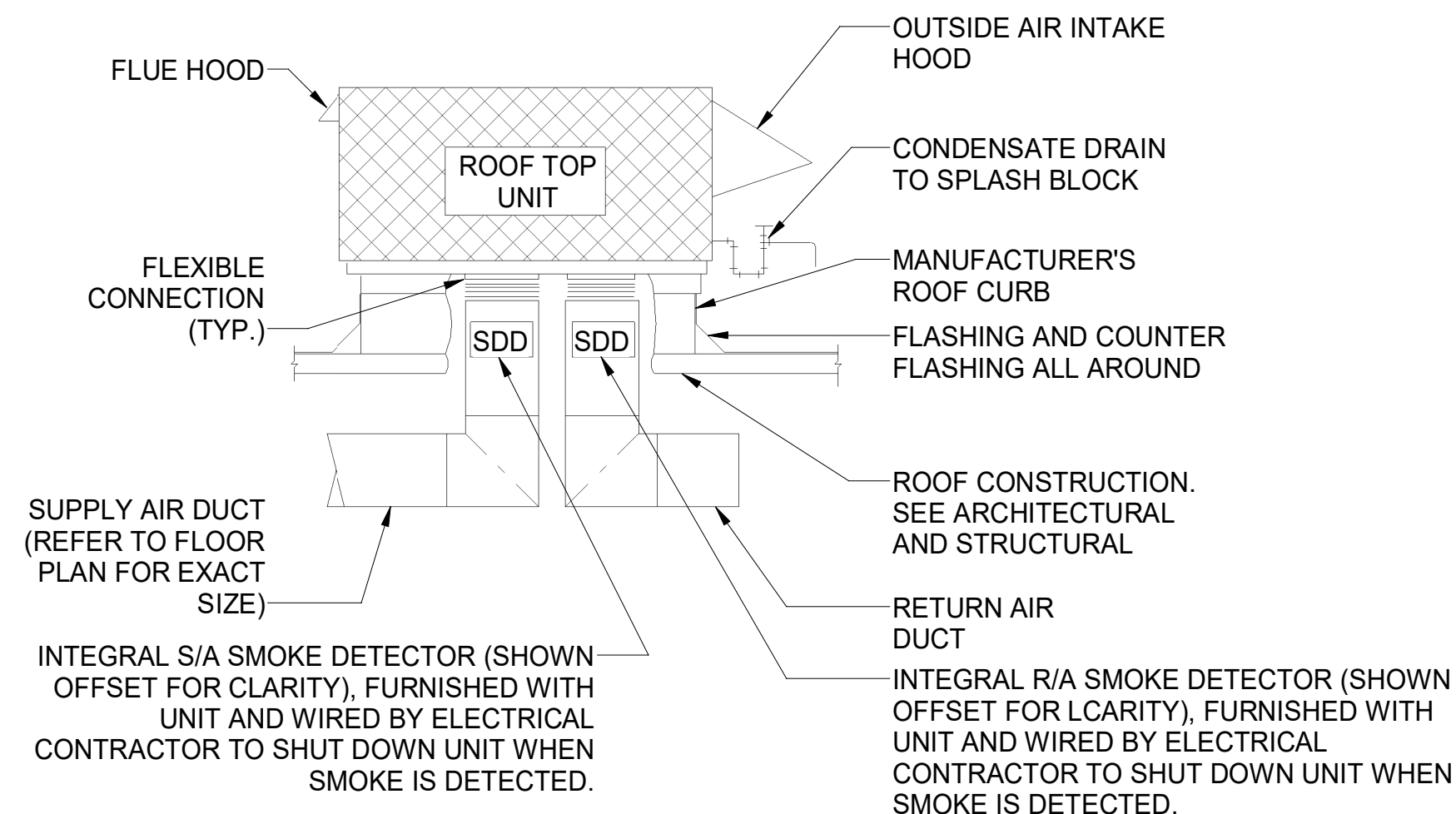
4 HVAC DINING ROOM RETURN SECTION  
1/4" = 1'-0"



5 HVAC - UTENSIL COUNTER DUCTWORK SECTION 'B'  
1/4" = 1'-0"

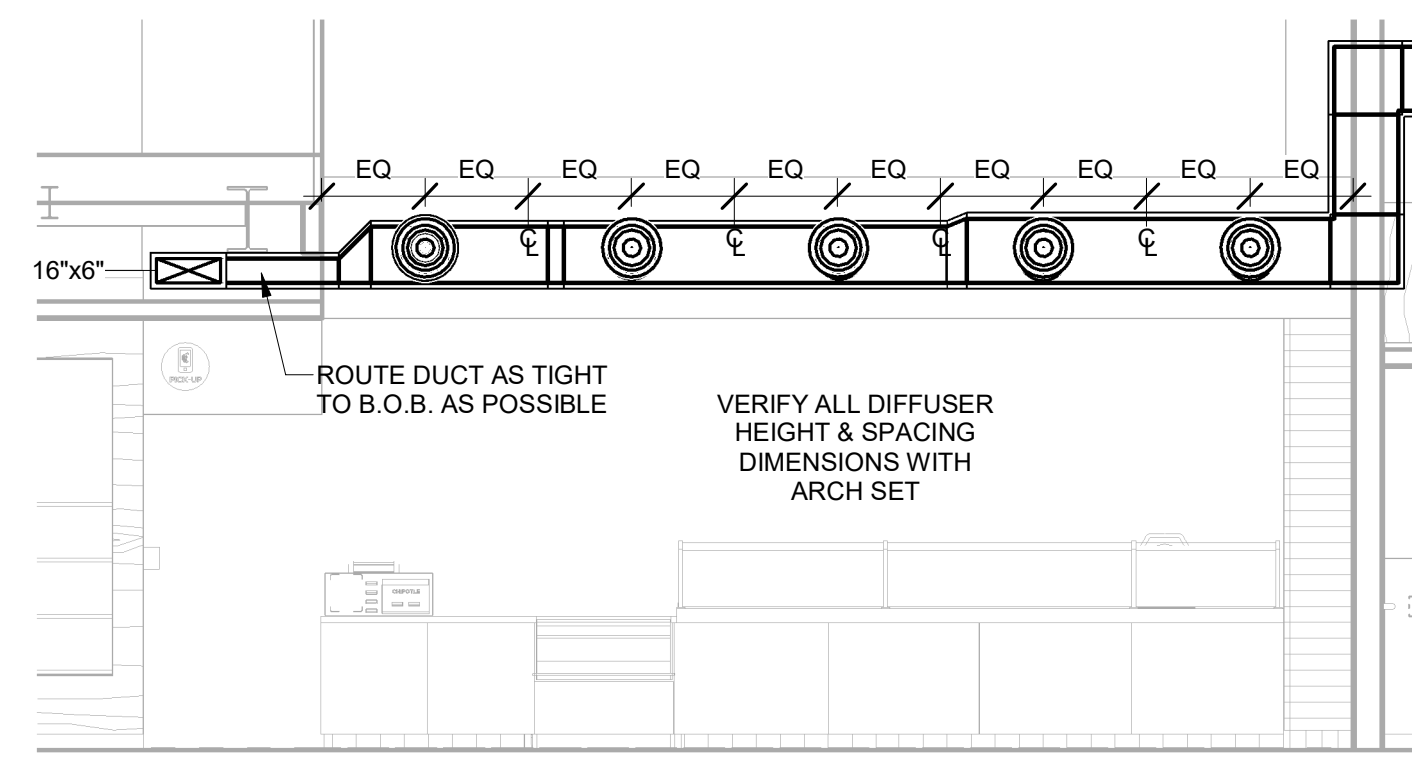


6 HVAC - ROOF MOUNTED EXHAUST FAN  
NOT TO SCALE

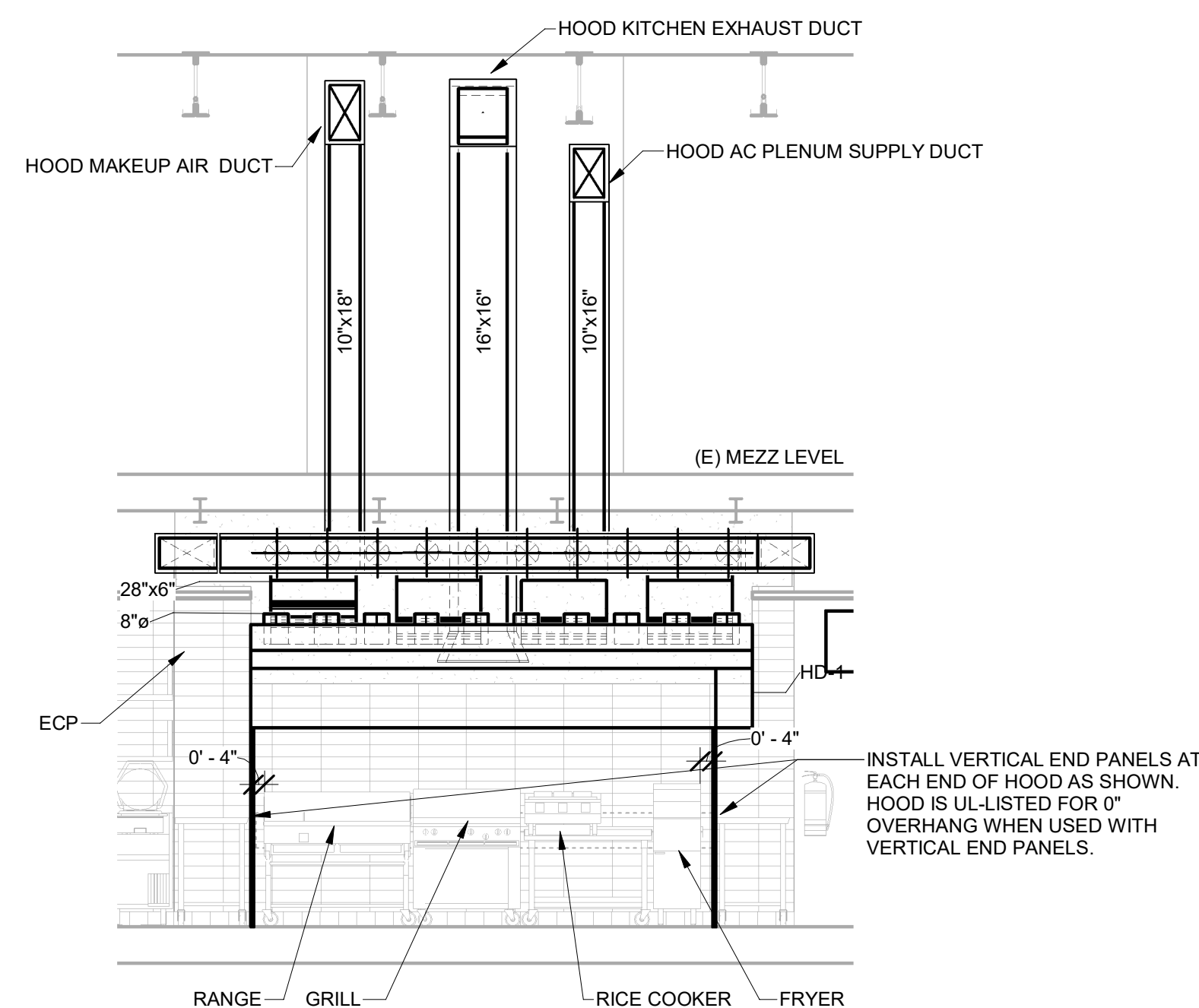


- NOTES:
- THIS DETAIL SHALL SERVE AS A STANDARD FOR INSTALLATION FOR ALL ROOFTOP UNITS. REFER TO FLOOR PLANS FOR EXACT REQUIREMENTS FOR EACH UNIT.
  - ALL ROOF PENETRATIONS ARE BASED ON MANUFACTURERS EQUIPMENT S/A TO R/A OPENING SIZE UNLESS NOTED OTHERWISE. EXTEND FULL SIZE DUCT DOWN TO ABOVE CEILING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

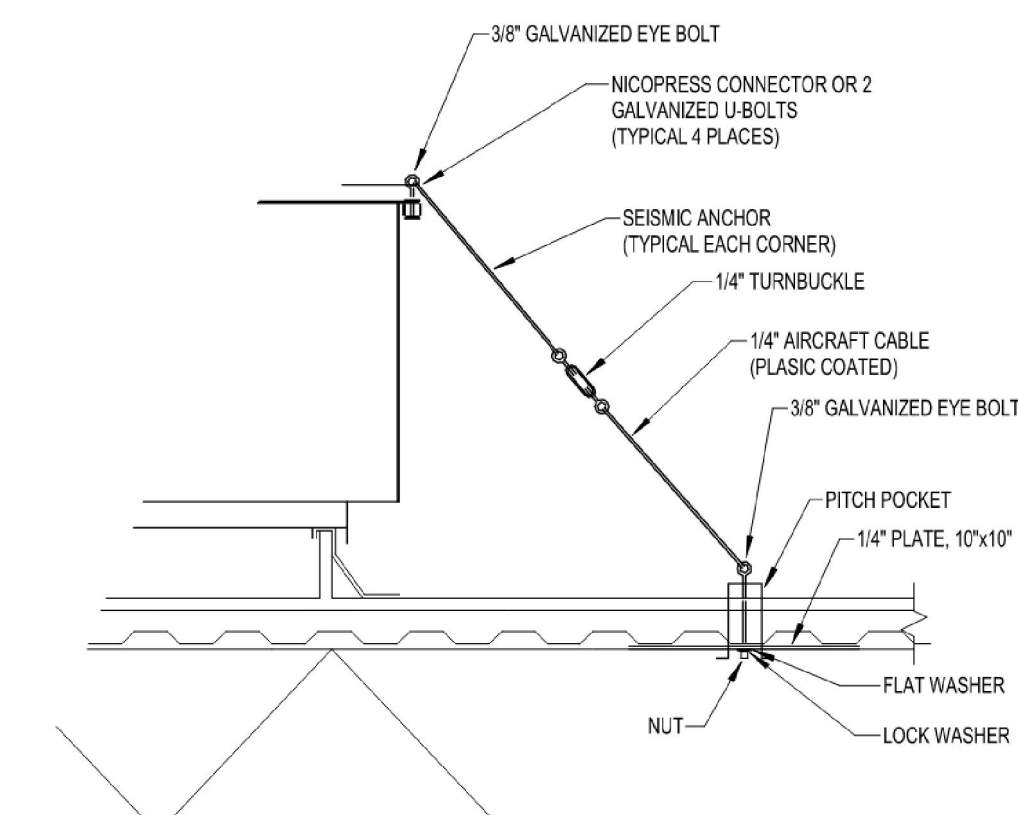
7 HVAC - ROOFTOP UNIT MOUNTING DETAIL  
NOT TO SCALE



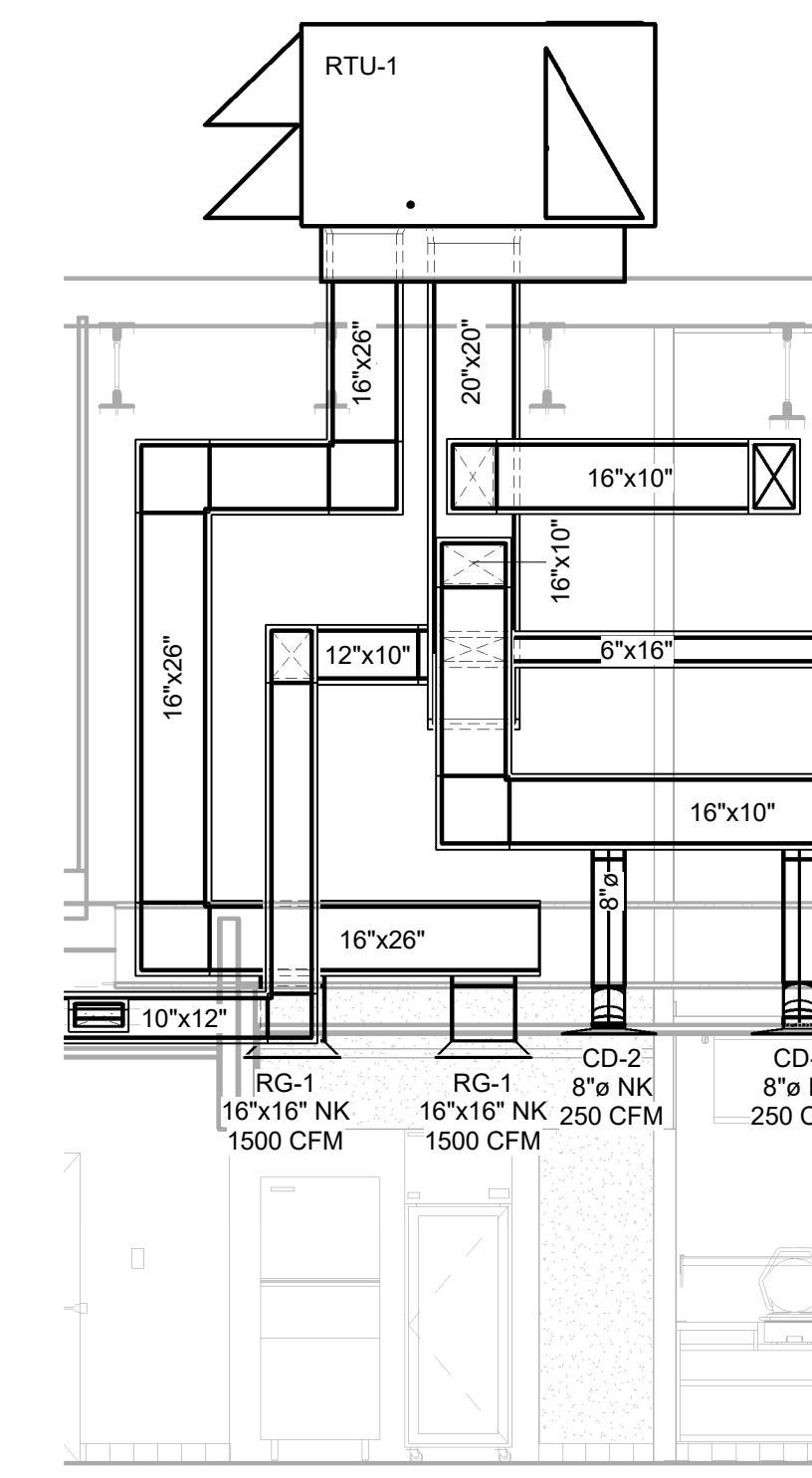
8 HVAC - DINING ROOM DUCTWORK SECTION  
1/4" = 1'-0"



9 HOOD ELEVATION  
1/4" = 1'-0"



10 HVAC - HIGH WINDS ANCHOR SUPPORT DETAIL  
NOT TO SCALE



11 HVAC - RTU-1 DUCT DROP SECTION  
1/4" = 1'-0"



REV. DATE	DESCRIPTION
04/07/2025	BID SET
04/18/2025	PERMIT SET
1 04/18/2025	PER LLD COMMENTS
2 07/15/2025	CONSTRUCTION SET

PROFESSIONAL SEAL

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DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

24084

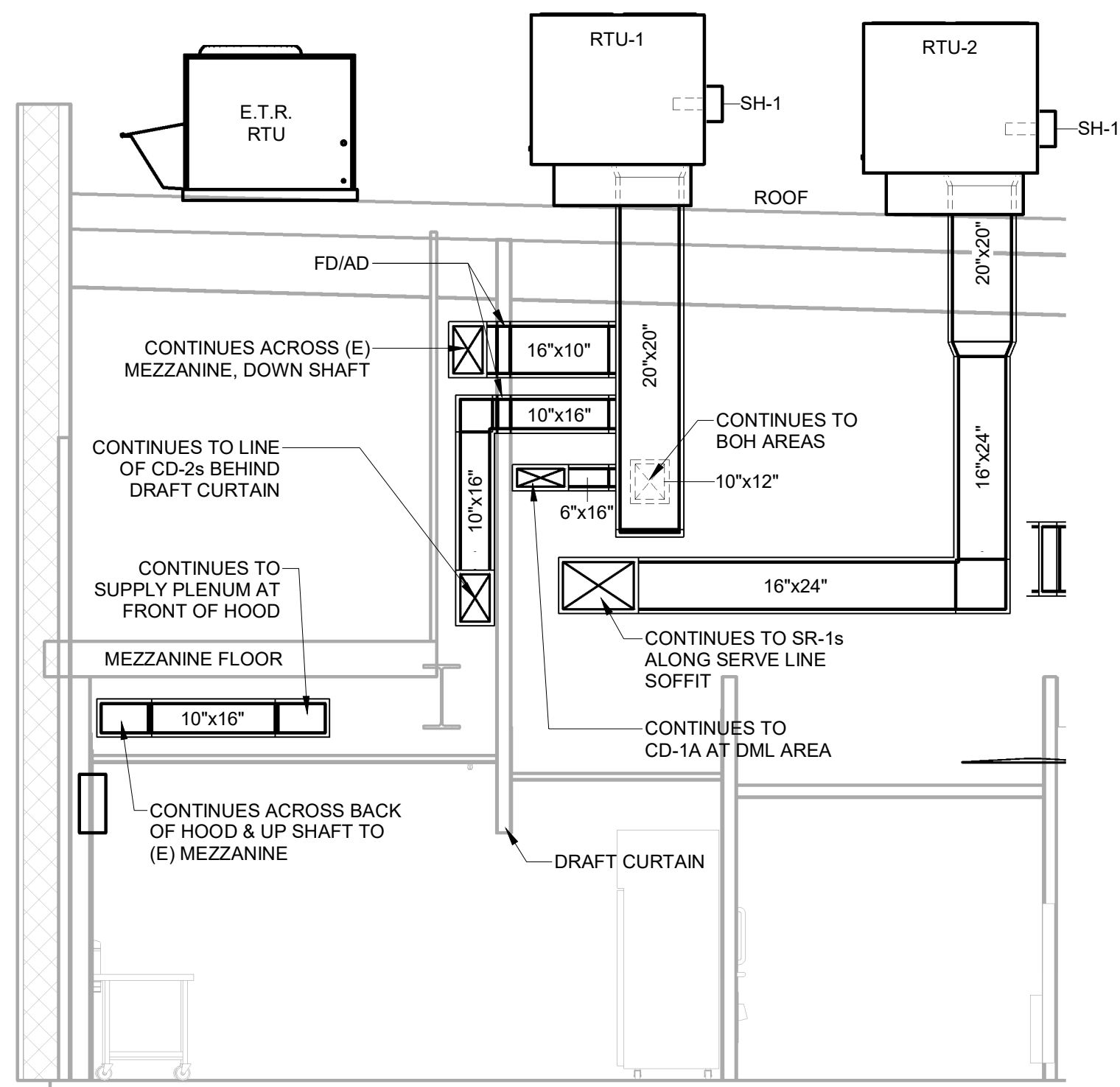
SHEET TITLE:

HVAC DETAILS

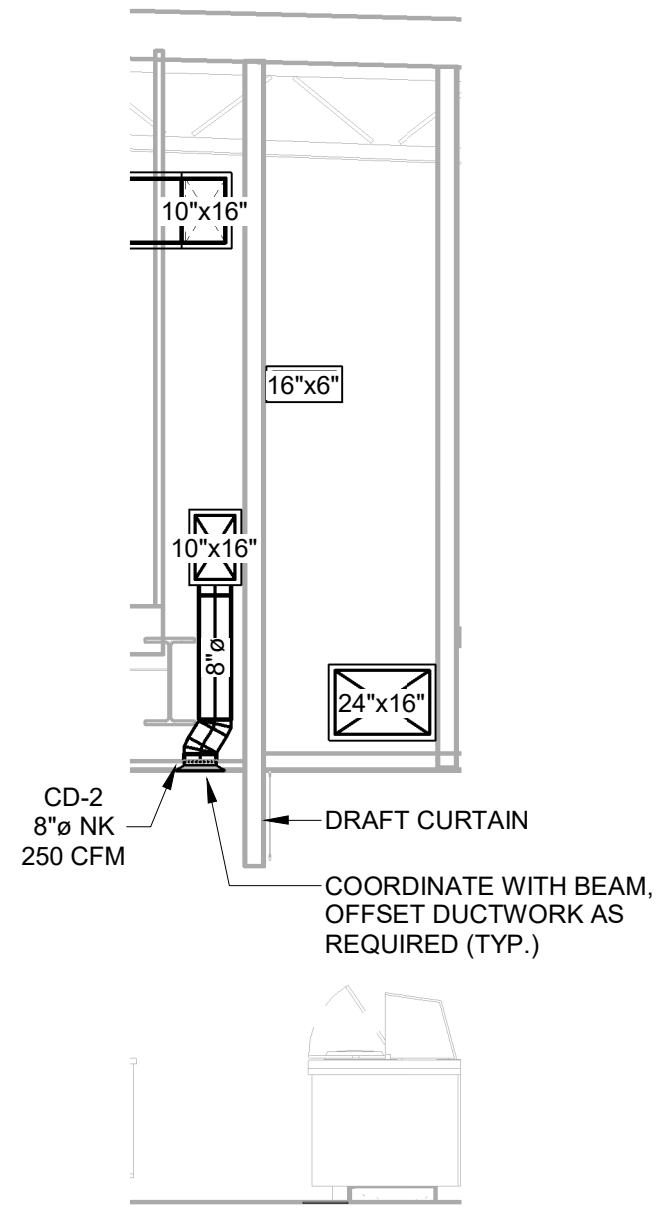
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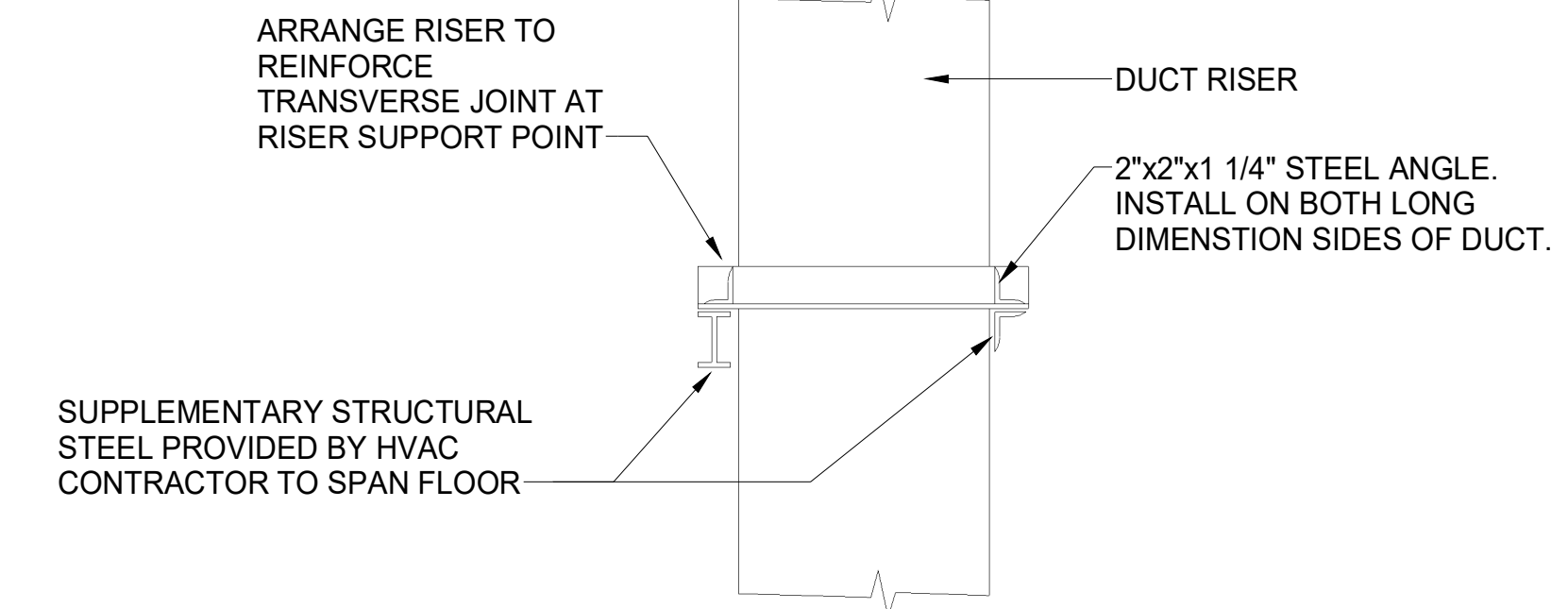
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① HVAC - SUPPLY DUCTWORK SECTION VIEW  
1/4" = 1'-0"



② HVAC - CD-2 SECTION VIEW  
1/4" = 1'-0"



③ HVAC - DUCT RISER SUPPORT  
1/8" = 1'-0"

NOTE:  
CONNECT SUPPLEMENTARY STEEL TO BUILDING STRUCTURAL STEEL.

2024-DB#4/P#1-4

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REV.	DATE	DESCRIPTION
04/07/2025		BID SET
04/18/2025		PERMIT SET
2	07/15/2025	CONSTRUCTION SET

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SHEET TITLE:  
 HVAC DETAILS

SHEET NUMBER:

M-702  
 13 OF 13