

**HVAC 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)          |
| EJ        | EXHAUST FAN                       |
| ER        | EXHAUST REGISTER                  |
| (E)/X/T/G | EXISTING                          |
| HD        | HOOD                              |
| MAU       | MAKEUP AIR UNIT                   |
| OB        | 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             |
| TWC   | 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 RADUSED 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 12GA. 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<br>DUCTWORK INTERNAL FREE DIMENSIONS<br>(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   |
|  | CD-1 12" ROUND 550 CFM<br>GRILL, REGISTER, OR DIFFUSER TAG<br>NECK SIZE<br>AIRFLOW         |

**HVAC SPECIFICATIONS**

**SECTION 15080 - MECHANICAL INSULATION**

**PART 1 - GENERAL**

**1.1 SECTION REQUIREMENTS**

- A. Submittals: None.
- B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.

**PART 2 - PRODUCTS**

**2.1 PIPE INSULATION**

- A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
- B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
- B. Insulate fittings, valves, and specialties.
- C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
- D. Coat glass fiber pipe insulation ends with vapor barrier coating.
- E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
- F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
- G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
- H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
- I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
- J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
- K. Interior Piping System Applications: Insulate the following piping systems:
  - 1. Domestic hot and cold water.
  - 2. Exposed sanitary drains of fixtures for the disabled.
  - 3. Refrigerant piping.
- L. Do not apply insulation to the following systems, materials, and equipment:
  - 1. Flexible connectors.
  - 2. Fire protection piping systems.
  - 3. Sanitary drainage and vent piping.
  - 4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
  - 5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
- M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
  - 1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.
  - 2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.

END OF SECTION 15080

**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 2020 NYC Energy Conservation Code
- 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 Hood 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.
- B. 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.
- C. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- D. 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.
- E. Joint and Seam Tape: Comply with UL 181A.
- F. Joint and Seam Sealant: Comply with UL 181A.
- G. 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. 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 submain, 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:
  - 6. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
  - 7. Manufacturer: As scheduled (NO SUBSTITUTIONS)
  - 8. Material: As scheduled.
  - 9. Finish: As Scheduled.
  - 10. 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

Consultant:



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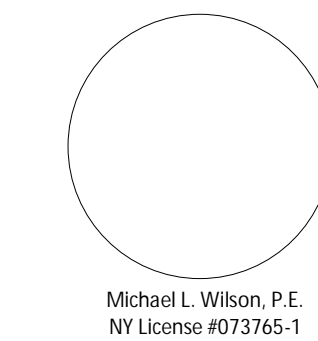


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| REV. DATE  | DESCRIPTION |
|------------|-------------|
| 2022.05.20 | BID SET     |

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.  
DRAWN BY: PCE  
CHECKED BY: AIS

PROJECT NUMBER:  
22011

SHEET TITLE:

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

SHEET NUMBER:

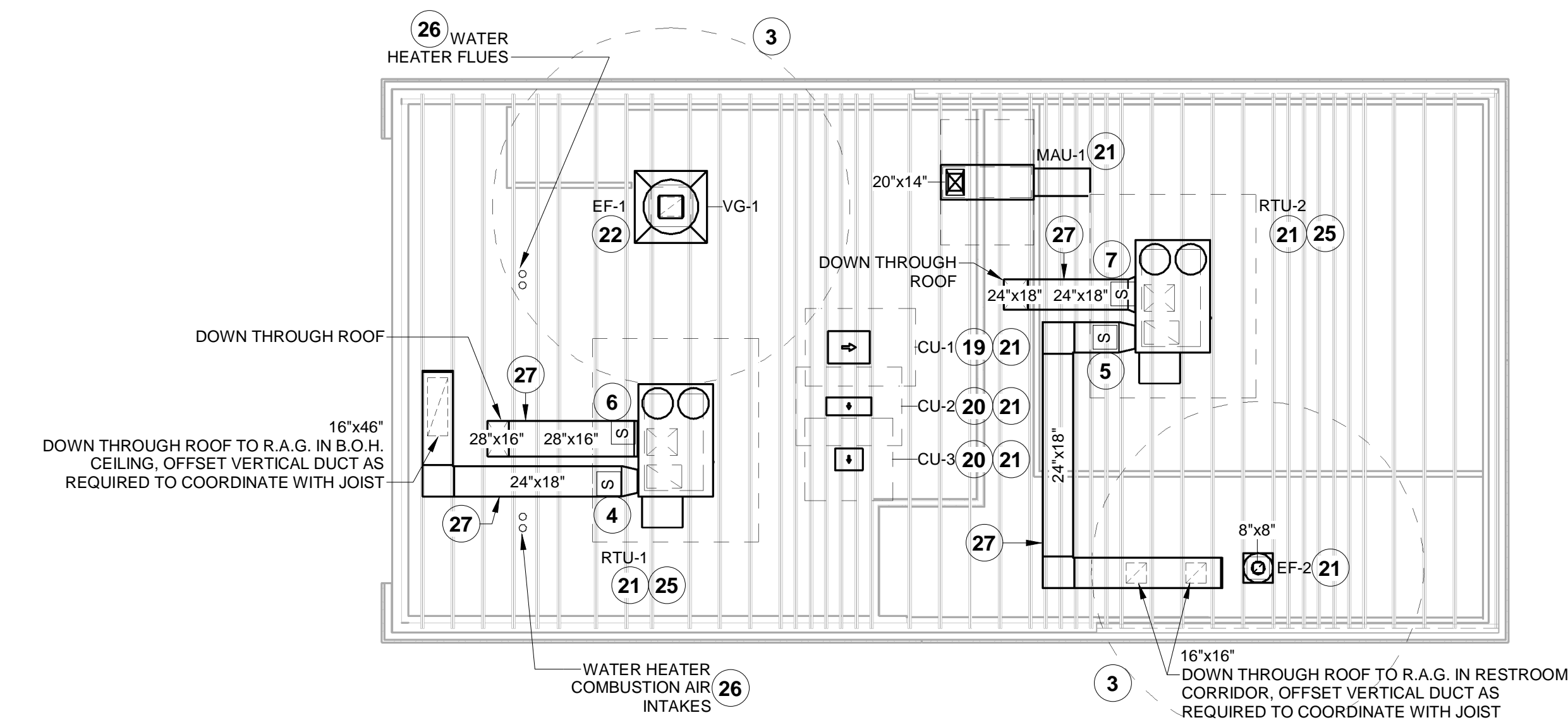
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**KEYNOTES FOR THIS SHEET 1, 2 ETC.**

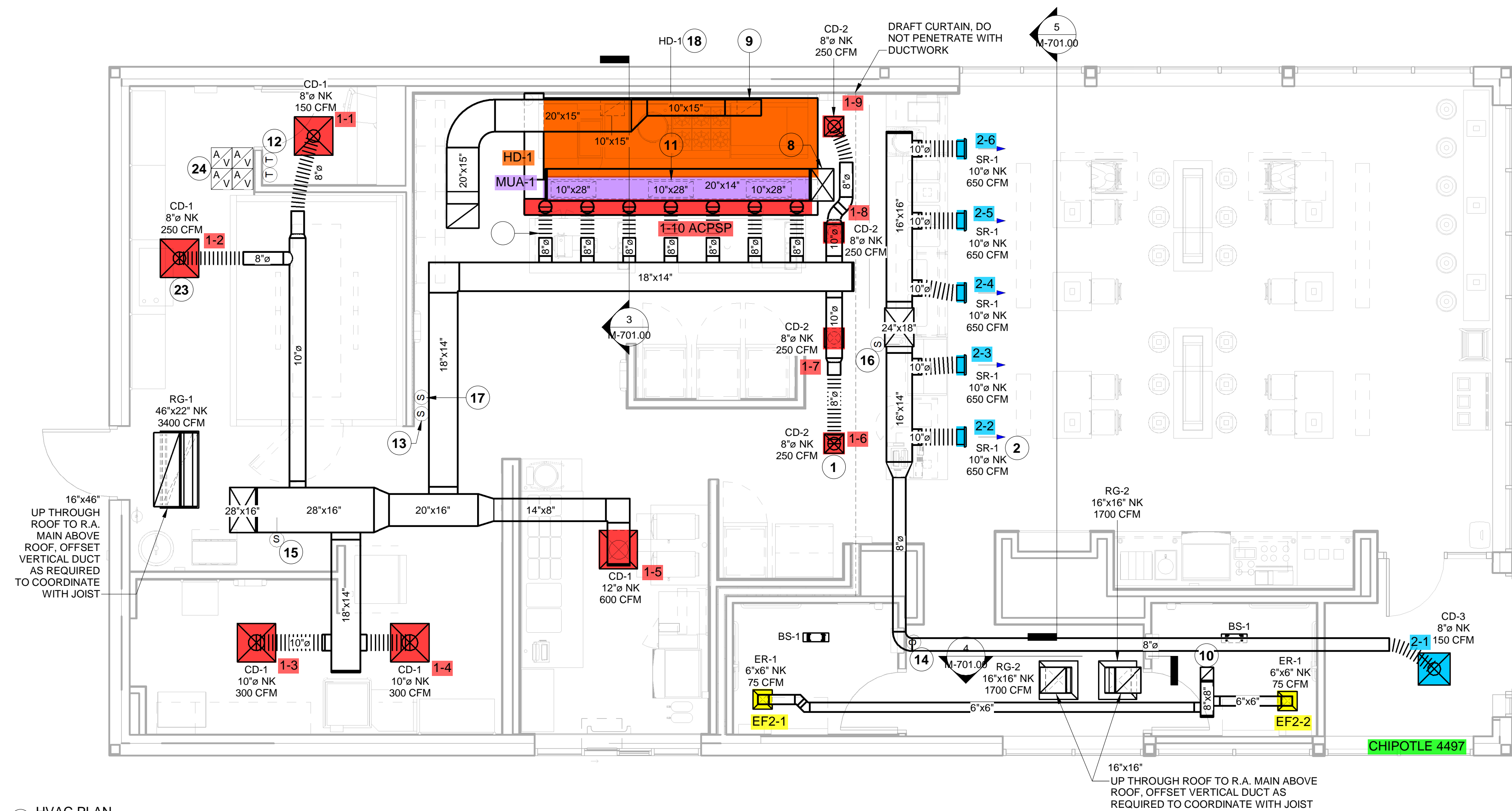
- 1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- 2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- 3 10'-0" MIN. CLEARANCE FROM OUTER EDGE OF EXHAUST FAN TO FRESH AIR INTAKES. TYPICAL.
- 4 24/18 DUCT TO TRANSITION TO RTU-1 RETURN CONNECTION ON SIDE OF UNIT. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 5 24/18 DUCT TO TRANSITION TO RTU-2 RETURN CONNECTION ON SIDE OF UNIT. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 6 28/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION ON SIDE OF UNIT. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 7 24/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-2 SUPPLY CONNECTION ON SIDE OF UNIT. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 8 20/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 9 10/15 DUCTS UP FROM HOOD TO 20/15 DUCT THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. 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 28/10 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 12 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.
- 13 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.
- 14 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.
- 15 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.
- 16 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.
- 17 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".
- 18 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.
- 19 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.
- 20 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.
- 21 INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 22 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.
- 23 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 6/M-700. TYPICAL.
- 24 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.

**KEYNOTES FOR THIS SHEET 1, 2 ETC.**

- 25 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.
- 26 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.
- 27 PROVIDE DUCT INSULATION BOARD ON ALL EXTERIOR DUCT, MINIMUM R-8, WITH ASJ OR FSK FACING. AFTER FACING HAS BEEN INSTALLED, INSTALL ALUMAGUARD PEEL AND STICK, SELF-HEALING, UV STABLE, BITUMEN MEMBRANE BY POLYGUARD PRODUCTS, INC..



2 HVAC ROOF PLAN  
1/8" = 1'-0"



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

2022-DB#1/P#1-4

Consultant:



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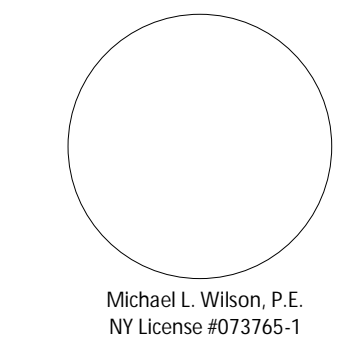


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PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.

DRAWN BY: PCE

CHECKED BY: AIS

PROJECT NUMBER:

22011

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-100.00

HOOD SHOP DRAWING PRODUCED BY  
MANUFACTURER - FOR REFERENCE ONLY

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

PATENT NUMBERS  
AC-PSP (UNITED STATES) - US PATENT 7962830 B2.  
AC-PSP WALL (CANADA) - CA PATENT 2820909.  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5452988

| HOOD NO | TAG | MODEL            | MANUFACTURER | LENGTH | MAX COOKING TEMP | TYPE | APPLIANCE DUTY | DESIGN CFM/FT | TOTAL EXH CFM | EXHAUST PLENUM RISER(S) |      |        |      | MJA CFM | AC CFM  | HOOD CONSTRUCTION | HOOD CONFIG |                      |       |            |
|---------|-----|------------------|--------------|--------|------------------|------|----------------|---------------|---------------|-------------------------|------|--------|------|---------|---------|-------------------|-------------|----------------------|-------|------------|
|         |     |                  |              |        |                  |      |                |               |               | WIDTH                   | LENG | HEIGHT | DIA  |         |         |                   | CFM         | VEL                  | SP    | END TO END |
| 1       |     | 5424 ND-2-ACSP-F | CAPTIVEAIRE  | 14' 3" | 600 DEG          | I    | HEAVY          | 225           | 3200          | 10"                     | 15"  | 4"     | 1600 | 1536    | -0.854" | 1950              | 798         | 430 SS WHERE EXPOSED | ALONE | ALONE      |

HOOD INFORMATION

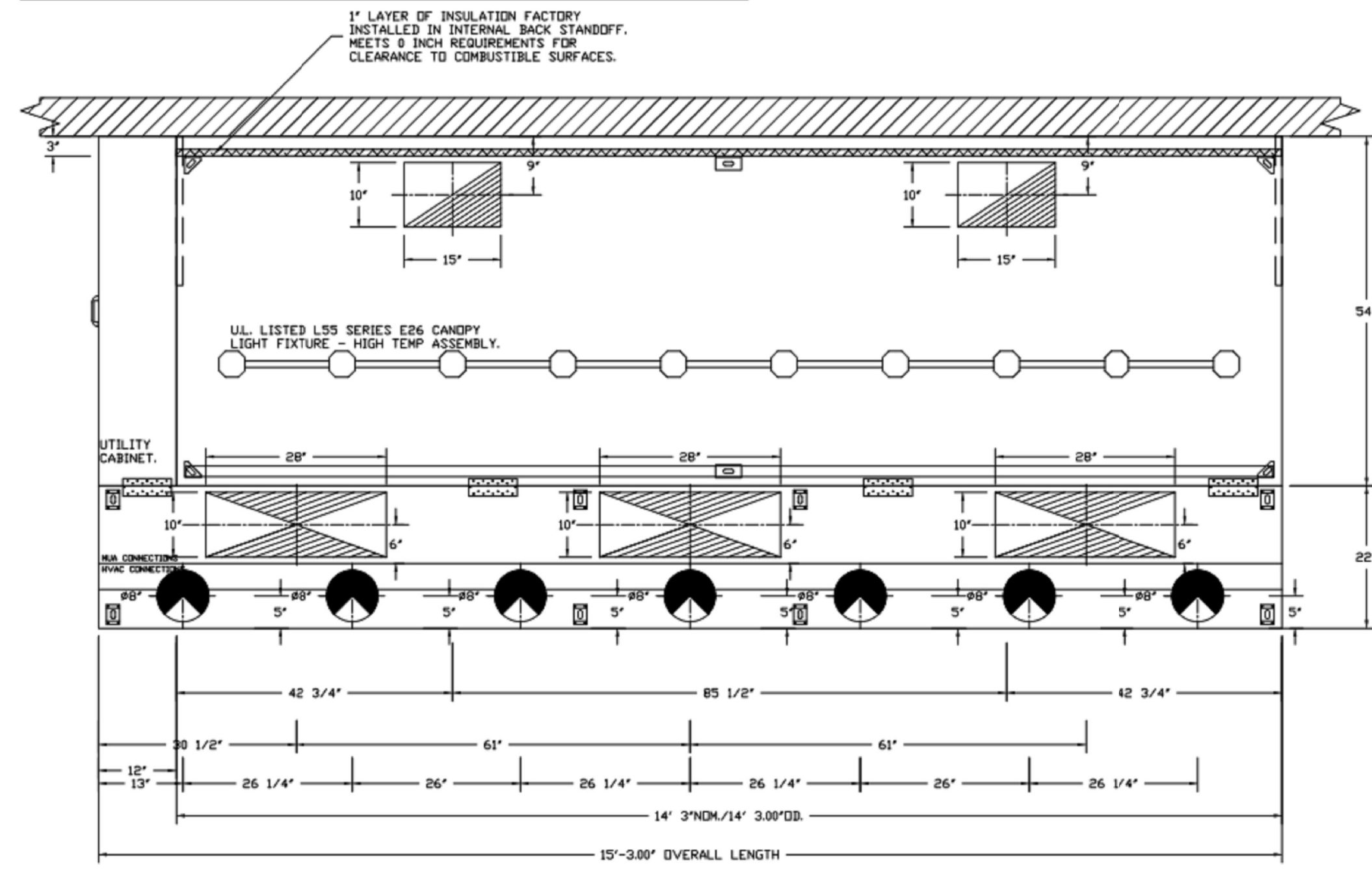
| HOOD NO | TAG | TYPE                 | FILTER(S) |        |        | EFFICIENCY @ 7 MICRONS | QTY | LIGHT(S)       |      |         | WIRE GUARD  | LOCATION    | SIZE    | UTILITY CABINET(S) |                  | FIRE SYSTEM | HOOD HANGING WEIGHT |
|---------|-----|----------------------|-----------|--------|--------|------------------------|-----|----------------|------|---------|-------------|-------------|---------|--------------------|------------------|-------------|---------------------|
|         |     |                      | QTY       | HEIGHT | LENGTH |                        |     | TYPE           | SIZE | MODEL # |             |             |         | QUANTITY           |                  |             |                     |
| 1       |     | CAPTRATE SOLD FILTER | 10        | 16"    | 16"    | 85% SEE FILTER SPEC    | 10  | L55 SERIES E26 | ND   | LEFT    | 12"x54"x24" | ANSUL R-102 | 3.0/3.0 | SC-31110MA         | 1 LIGHT<br>1 FAN | YES         | 1070 LBS            |

HOOD OPTIONS

| HOOD NO | TAG | OPTION   |
|---------|-----|--|
| 1       |     | FIELD WRAPPER 6.00' HIGH FRONT, LEFT, RIGHT.<br>RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.<br>LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.<br>INSULATION FOR BACK OF HOOD.<br>FULL DIMENSION HANGING BRACKET - FRONT. |

PERFORATED SUPPLY PLENUM(S)

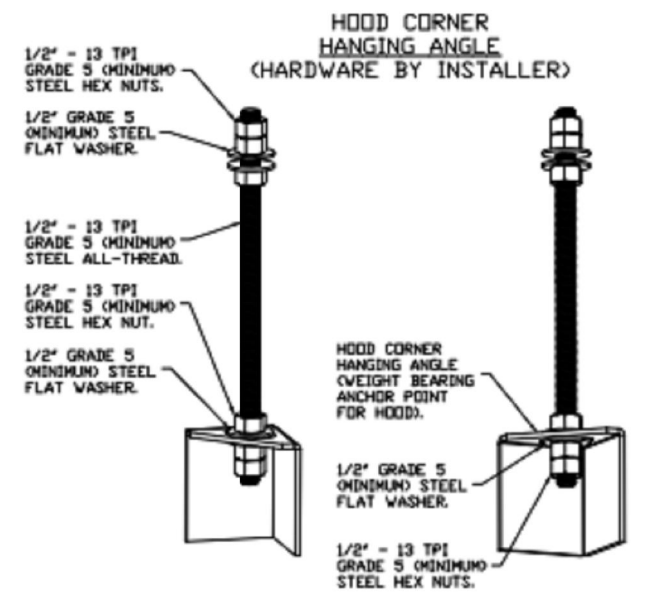
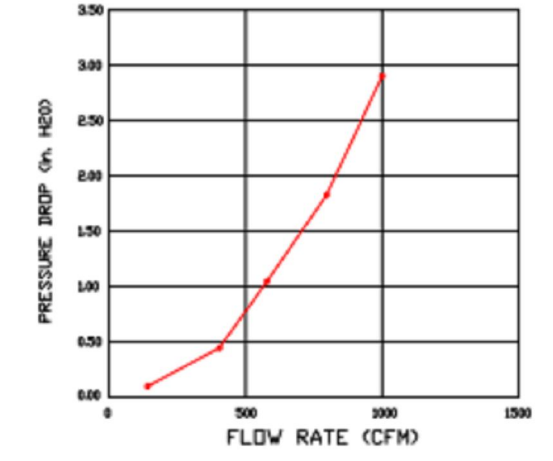
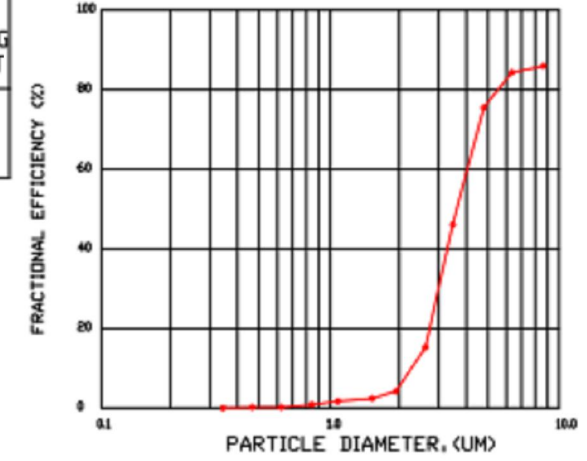
| HOOD NO | TAG | POS   | LENGTH | WIDTH | HEIGHT | TYPE | RISER(S) |      |        |        |
|---------|-----|-------|--------|-------|--------|------|----------|------|--------|--------|
|         |     |       |        |       |        |      | WIDTH    | LENG | DIA    | CFM    |
| 1       |     | Front | 183'   | 22'   | 6'     | MJA  | 10"      | 28"  | 650    | 0.166' |
|         |     |       |        |       |        | MJA  | 10"      | 28"  | 650    | 0.166' |
|         |     |       |        |       |        | MJA  | 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' |        |



PLAN VIEW - HOOD #1  
14' 3.00" LONG 5424ND-2-ACSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.  
ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

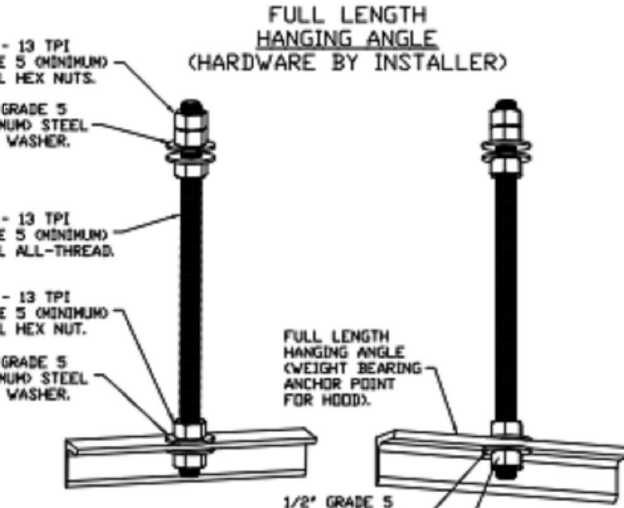
SPECIFICATION: CAPTRATE® GREASE-STOP® SOLD FILTER

THE CAPTRATE GREASE-STOP SOLD 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 95% 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 SOLD WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



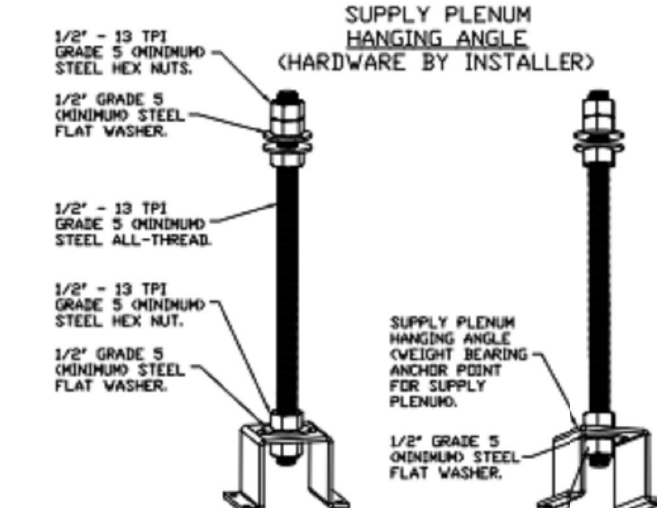
ASSEMBLY INSTRUCTIONS

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.

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**CAPTIVEAIRE**  
 Highwoods Group  
 4841 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg40@captiveaire.com

CHIPOTLE EAST NEW YORK LINDEN #4497  
 BROOKLYN, NY, 11207

DATE: 5/17/2022  
 DWG.#: 5452988  
 DRAWN BY: JMB-40  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING  
 SHEET NO. 1

Consultant:  
**Polaris**  
 Consulting Engineers, PC  
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 Moorestown, NJ 08057  
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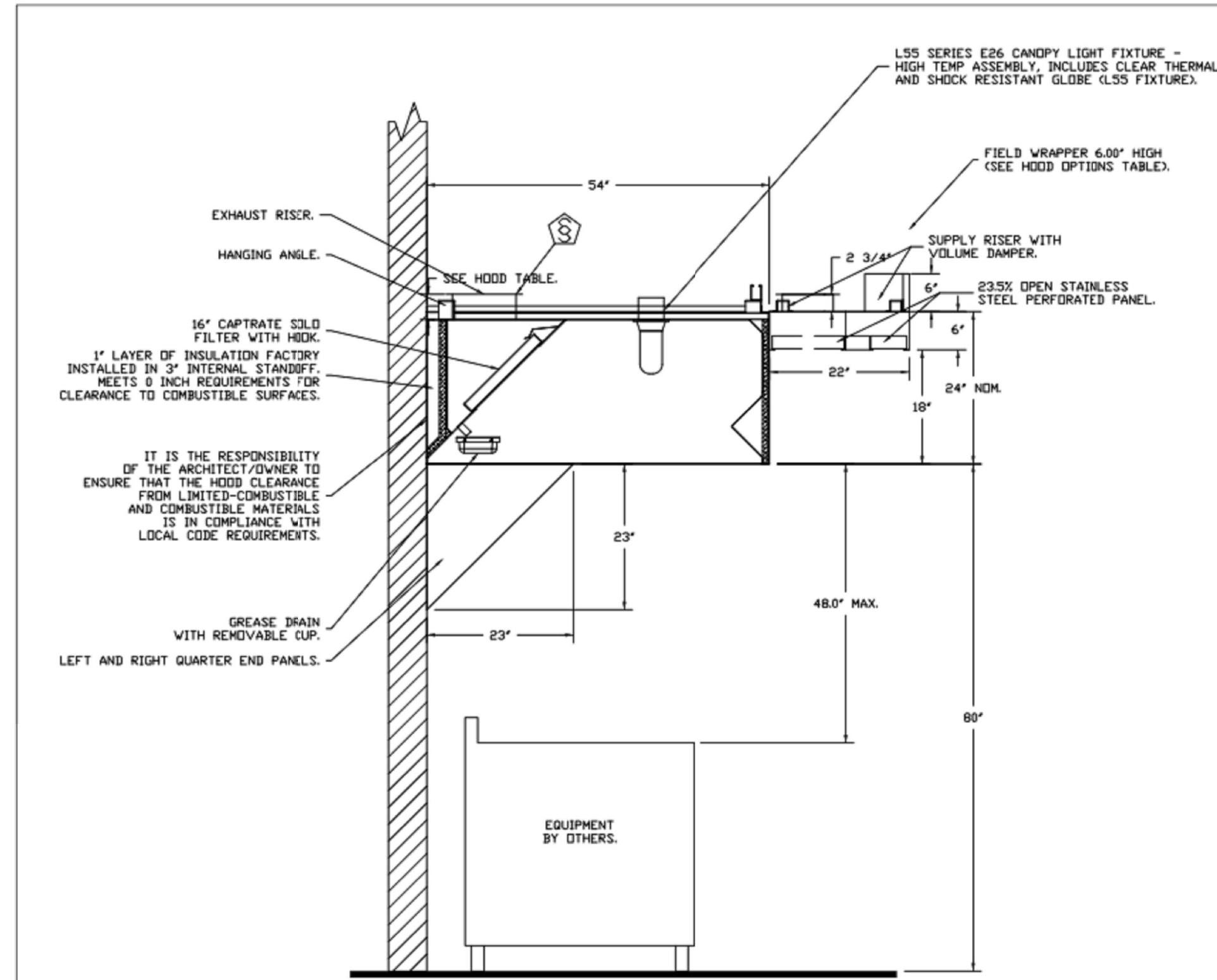
PROFESSIONAL SEAL  
  
 Michael L. Wilson, P.E.  
 NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.  
 DRAWN BY: PCE  
 CHECKED BY: AIS  
 PROJECT NUMBER: 22011

SHEET TITLE:  
**CAPTIVEAIRE DRAWINGS**

SHEET NUMBER:  
**M-400.00**

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

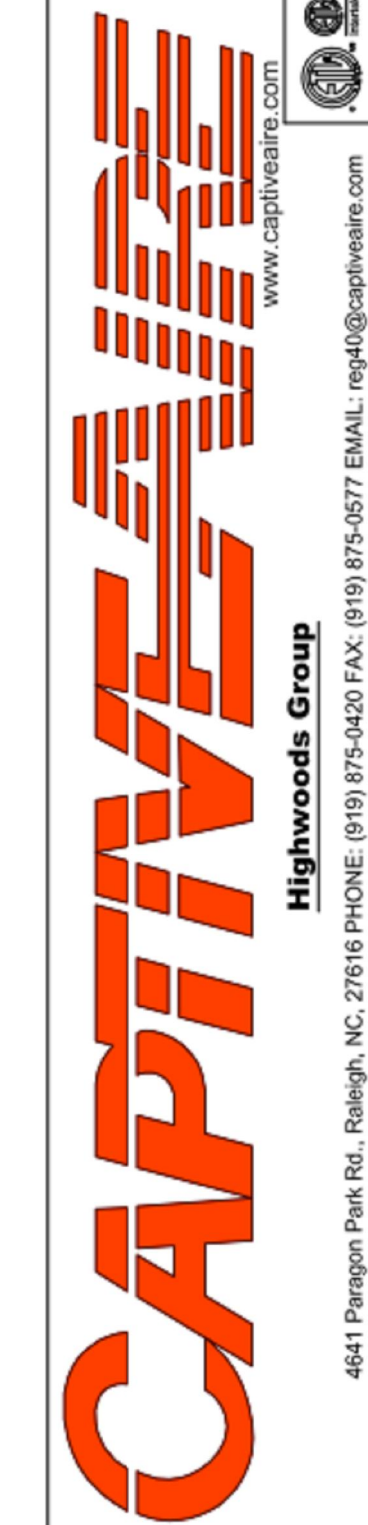
FIRE SYSTEM INFORMATION - JOB#5452988

| FIRE SYSTEM NO | TAG | TYPE       | SIZE    | FLDW 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 |

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SCALE: 3/4" = 1'-0"  
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PROJECT NUMBER:  
22011

SHEET TITLE:  
CAPTIVEAIRE  
DRAWINGS

SHEET NUMBER:  
M-401.00

2022-DB#1/P#1-4

**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 connectors 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.

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CHIPOTLE EAST NEW YORK LINDEN #4497  
BROOKLYN, NY, 11207

DATE: 5/17/2022  
DWG.#: 5452988  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 3

Consultant:



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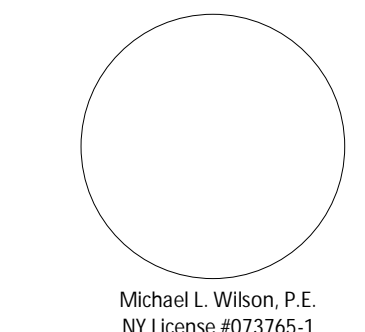


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PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.

DRAWN BY: PCE  
CHECKED BY: AIS

PROJECT NUMBER:  
22011

SHEET TITLE:

CAPTIVEAIRE  
DRAWINGS

SHEET NUMBER:

M-402.00

HOOD SHOP DRAWING PRODUCED BY  
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EXHAUST FAN INFORMATION - JOB#5452988

| 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   | DU240HFA         | CAPTIVEAIRE  | 3200 | 1.200 | 775  | ODP, PREMIUM | 3.000 | 1.3000 | 3     | 208  | 10.2 | 727 FPM            | 304          | 14.8  |
| 2           | EF-2 | 1   | DR12HFA          | CAPTIVEAIRE  | 150  | 0.600 | 1282 | TEAD-ECM     | 0.250 | 0.0940 | 1     | 115  | 2.9  |                    | 49           | 7.1   |

MUA FAN INFORMATION - JOB#5452988

| 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-D250-15D      | 15MF-1-MDD | A1-D.250 | 1000    | 1950       | 0.450 | 2014 | ODP, PREMIUM | 2.000 | 1.3150 | 3     | 208  | 6.1 | 7.7A | 15A  | 512          | 21    |

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 | 131165     | 120672      | 58°F      | 7 IN. W.C. - 14 IN. W.C.    | NATURAL  | 92                   |

FAN OPTIONS

| FAN UNIT NO | TAG                   | QTY | DESCRIPTION  |
|-------------|-----------------------|-----|--|
| 1           | EF-1                  | 1   | GREASE BOX   |
|             |                       | 1   | REMOVE HINGE KIT LABEL FROM THE FAN BASE   |
| 2           | EF-2                  | 1   | 2 YEAR PARTS WARRANTY  |
|             |                       | 1   | 12-BDD DAMPER  |
| 3           | MAU-1                 | 1   | ECM WIRING PACKAGE - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL (TELCD MOTOR), CCV ROTATION           |
|             |                       | 1   | 2 YEAR PARTS WARRANTY  |
|             |                       | 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   | LDV FIRE START   |
|             |                       | 1   | SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS                                      |
|             |                       | 1   | LDV PRESSURE GAS SWITCH  |
|             |                       | 1   | SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV DR PREWIRE WITH VFD) - THREE PHASE ONLY |
|             |                       | 1   | UNIT MOUNTED VFD FOR USE WITH ECPM03   |
| 1           | 2 YEAR PARTS WARRANTY |     |  |

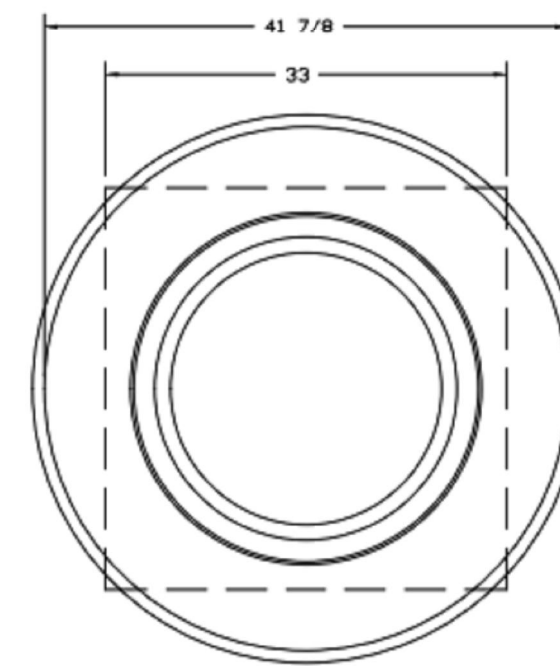
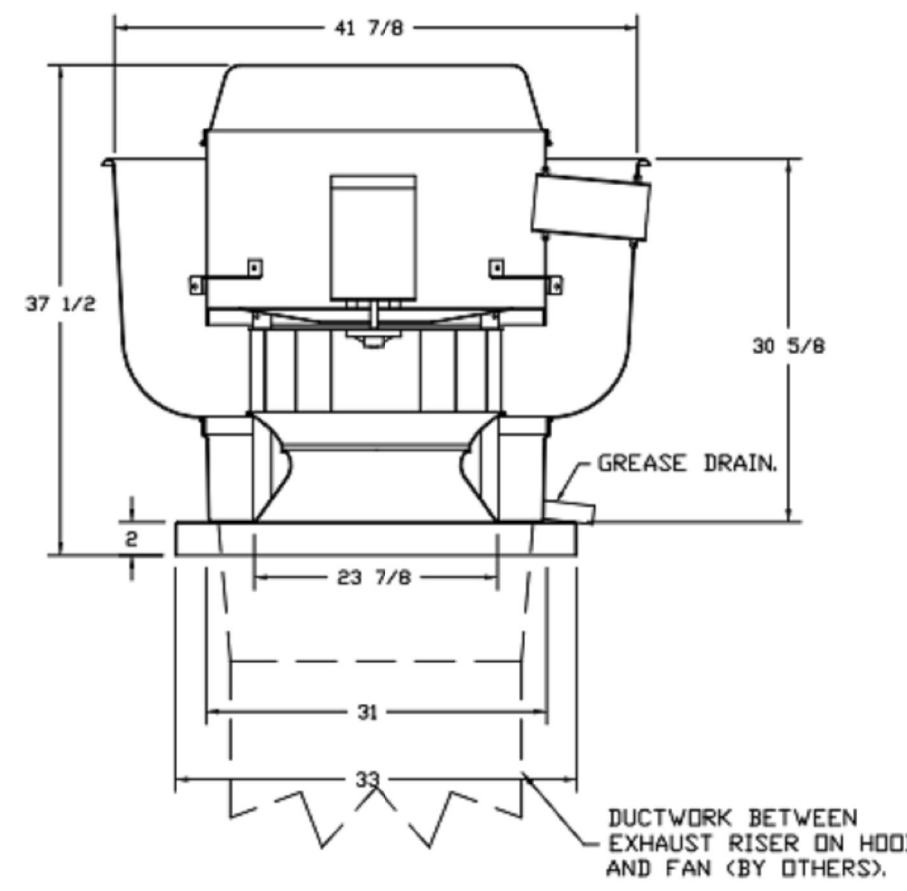
FAN ACCESSORIES

| FAN UNIT NO | TAG   | EXHAUST     |                |            |                | SUPPLY         |                  |            |  |
|-------------|-------|-------------|----------------|------------|----------------|----------------|------------------|------------|--|
|             |       | GREASE CLIP | 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  | 43 LBS | CURB | 31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED.   |
| 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. |

FAN #1 DU240HFA - EXHAUST FAN (EF-1)



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL769 AND ILC-5645
- 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

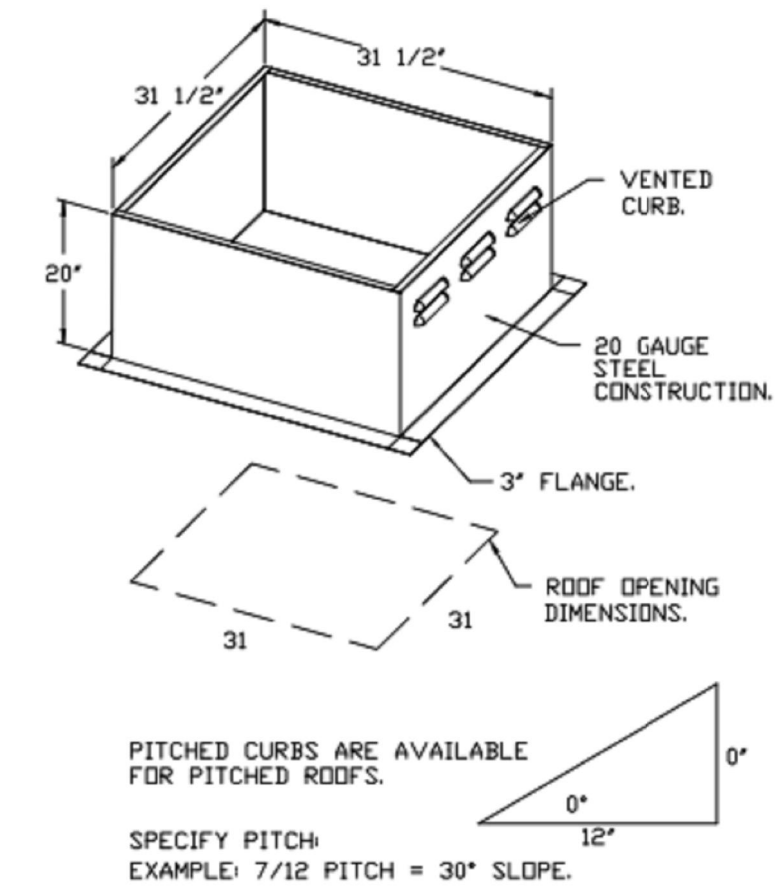
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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.

NOTES

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



**REVISIONS**

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CHIPOTLE EAST NEW YORK LINDEN #4497  
BROOKLYN, NY, 11207

DATE: 5/17/2022  
DWG.#: 5452988  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 4

Consultant:  
**Polaris**  
Consulting Engineers, PC  
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NY License #073765-1

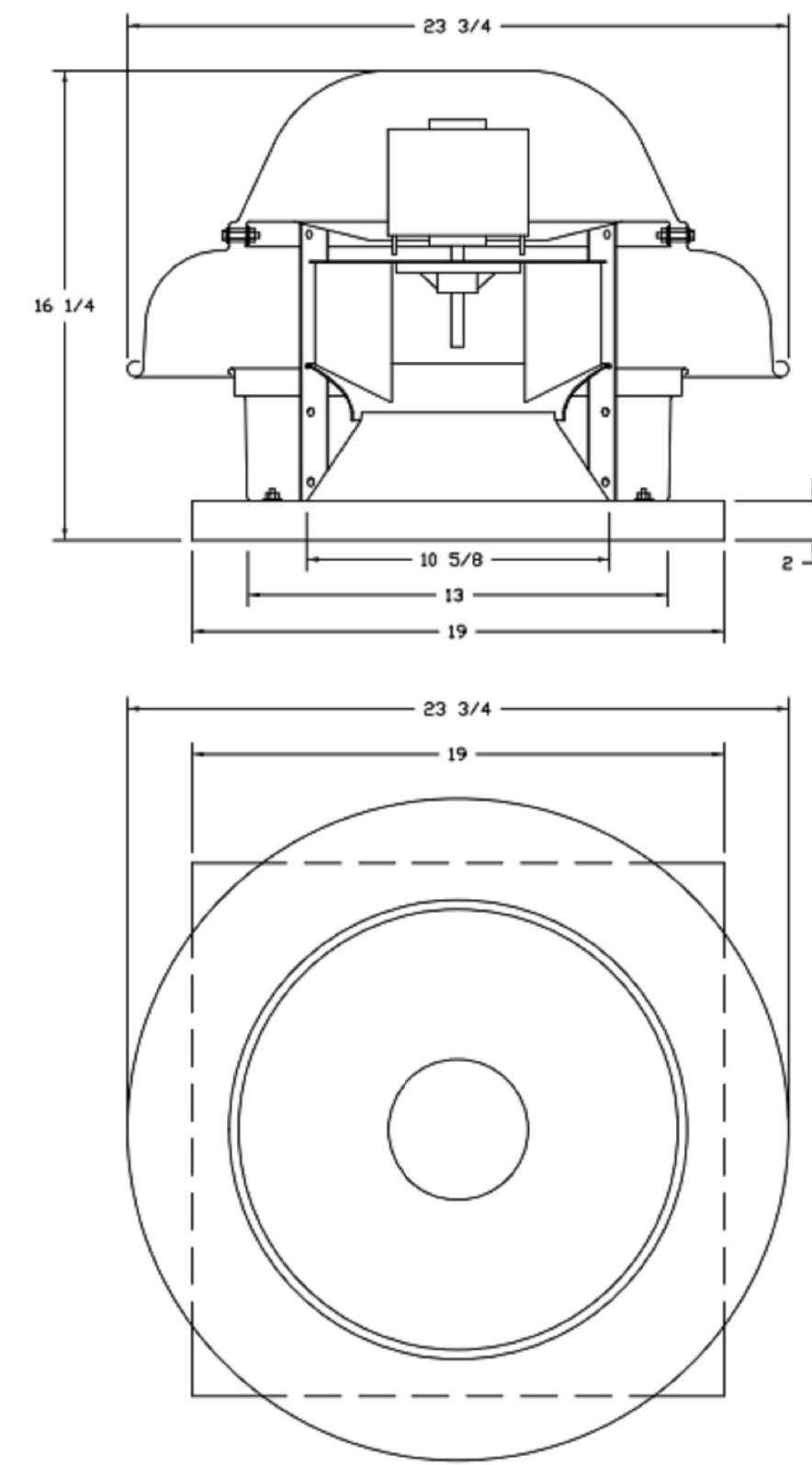
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FAN #2 DRIGHFA - EXHAUST FAN (CF-2)



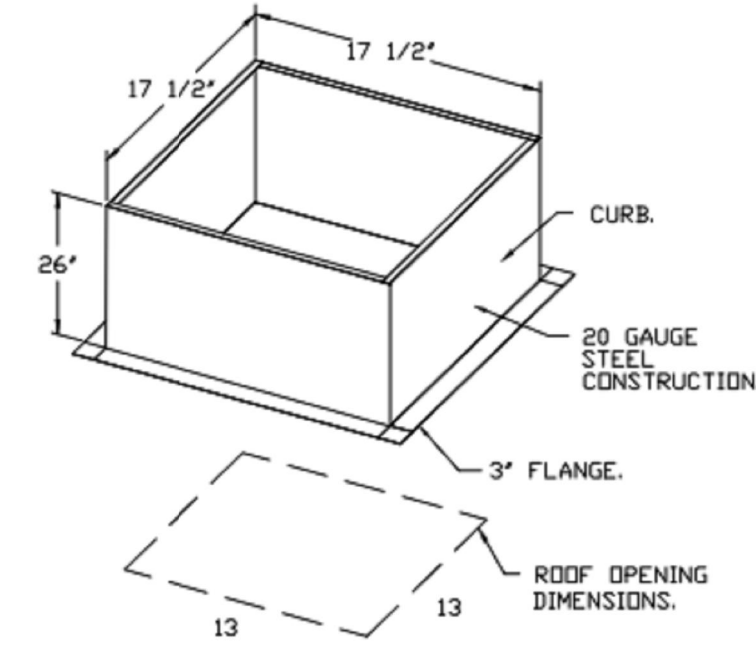
TOP VIEW

FEATURES:

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

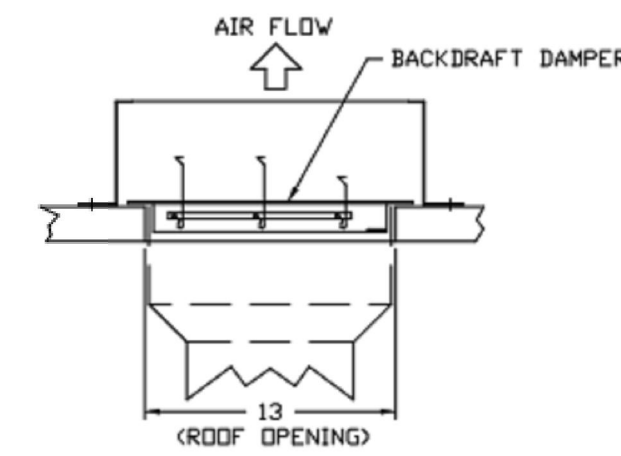
OPTIONS:

- 1 1/2" BBD DAMPER.
- EDM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELED MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



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

BACKDRAFT DAMPER INSTALLATION



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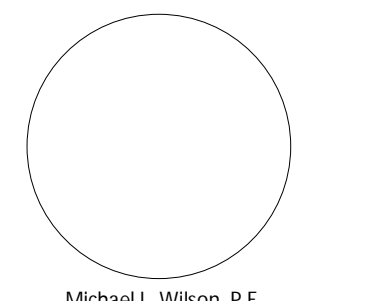


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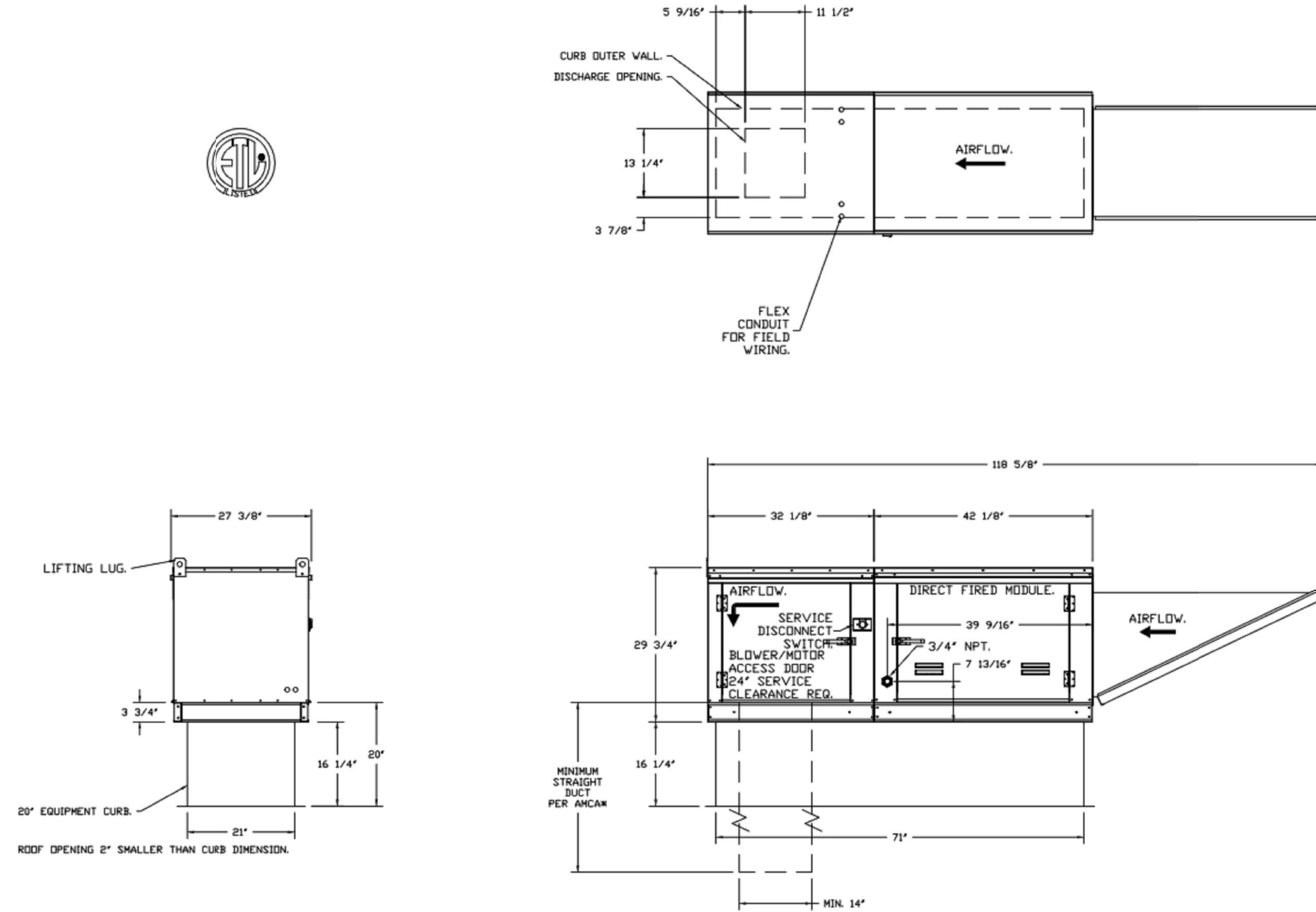
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- FAN #3 AI-D250-15D - HEATER (M40-D)
1. DIRECT GAS FIRE HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
  2. INTAKE HOOD WITH EZ FILTERS.
  3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
  6. MOTORIZED BACK DRAHT DAMPER 8" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT. STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFBIBOS ACTUATOR INCLUDED.
  7. LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
  8. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
  9. LOW PRESSURE GAS SWITCH (1" - 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 MAIN SWITCH.
  11. UNIT MOUNTED VFD FOR USE WITH ECM#02.
  12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  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 AMCA PUBLICATION 200. 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 DRAMATICALLY 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 = 17°F, TEMP RISE = 58°F.  
BTUS CALCULATED OFF ACTUAL AIR DENSITY.  
OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 120829.  
INPUT BTUS AT ALTITUDE OF 0.0 FT. = 131326.  
OUTPUT BTUS AT ALTITUDE OF 36 FT. = 128672.  
INPUT BTUS AT ALTITUDE OF 36 FT. = 131165.



**DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY**

**DESCRIPTION:**  
DIRECT FIRED BURNERS SHALL HAVE PATENTED (SEE PATENT NO. 6,664,800) SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE SLOW COMBUSTION BY LIMITING BURNER LEVELS TO A MAXIMUM OF 30% OF OXYGEN MONITORING (O2) AND A 50% OF REDUCED OXYGEN (RO2) LEVELS. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

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

**CERTIFICATIONS:**  
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE IF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z89.4 AND CSA 3.7 (O2N-RECIRCULATING DF HEATERS) AND ANSI Z89.8 (RECIRCULATING DF HEATERS).

**GENERAL CONSTRUCTION:**  
-PROFILE PLATES SHALL BE FORMED FROM 600 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.  
-SECTOR SHALL INCORPORATE PROPERLY TORQUED PERMANENTLY MOUNTED SPRING HINGES.  
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

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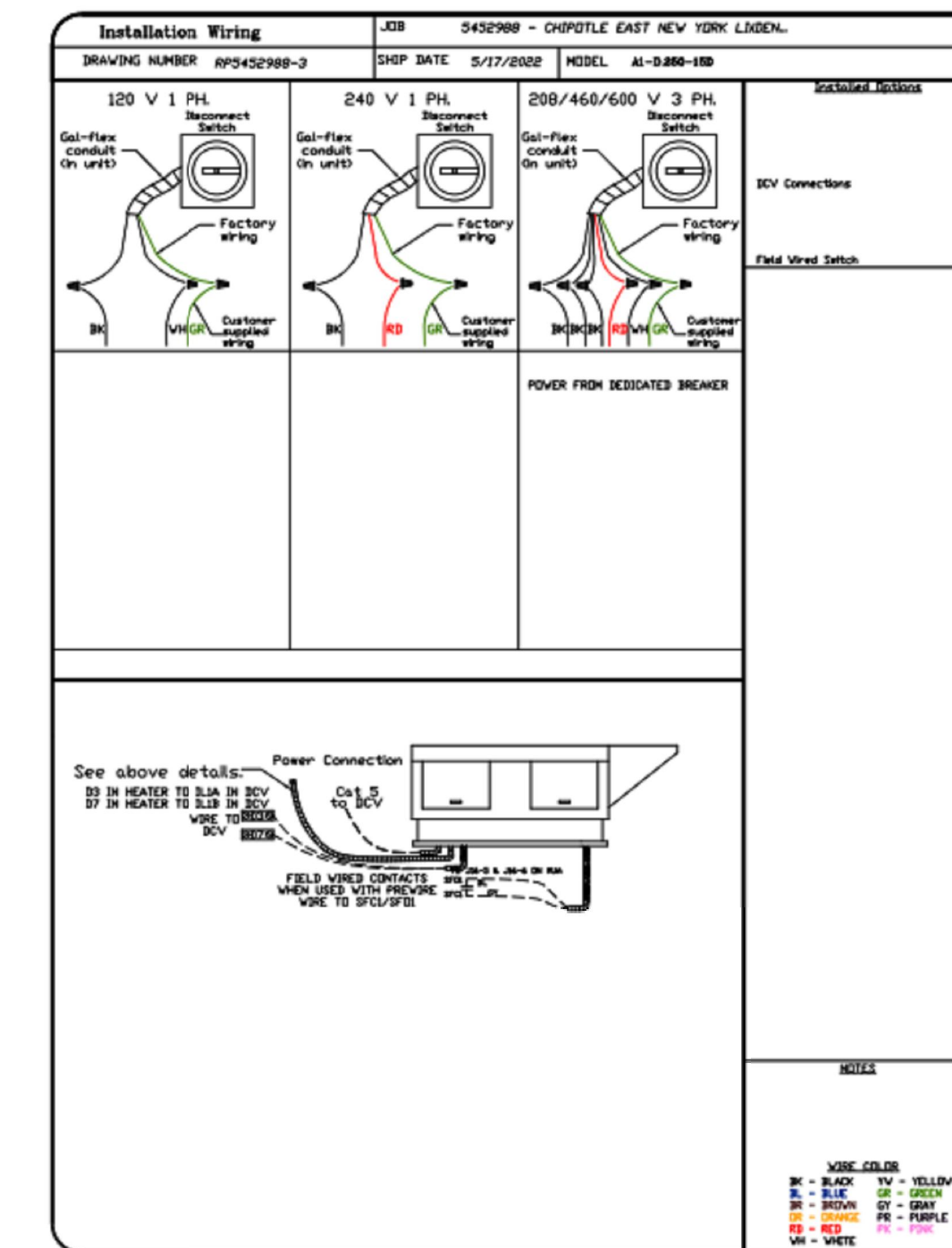
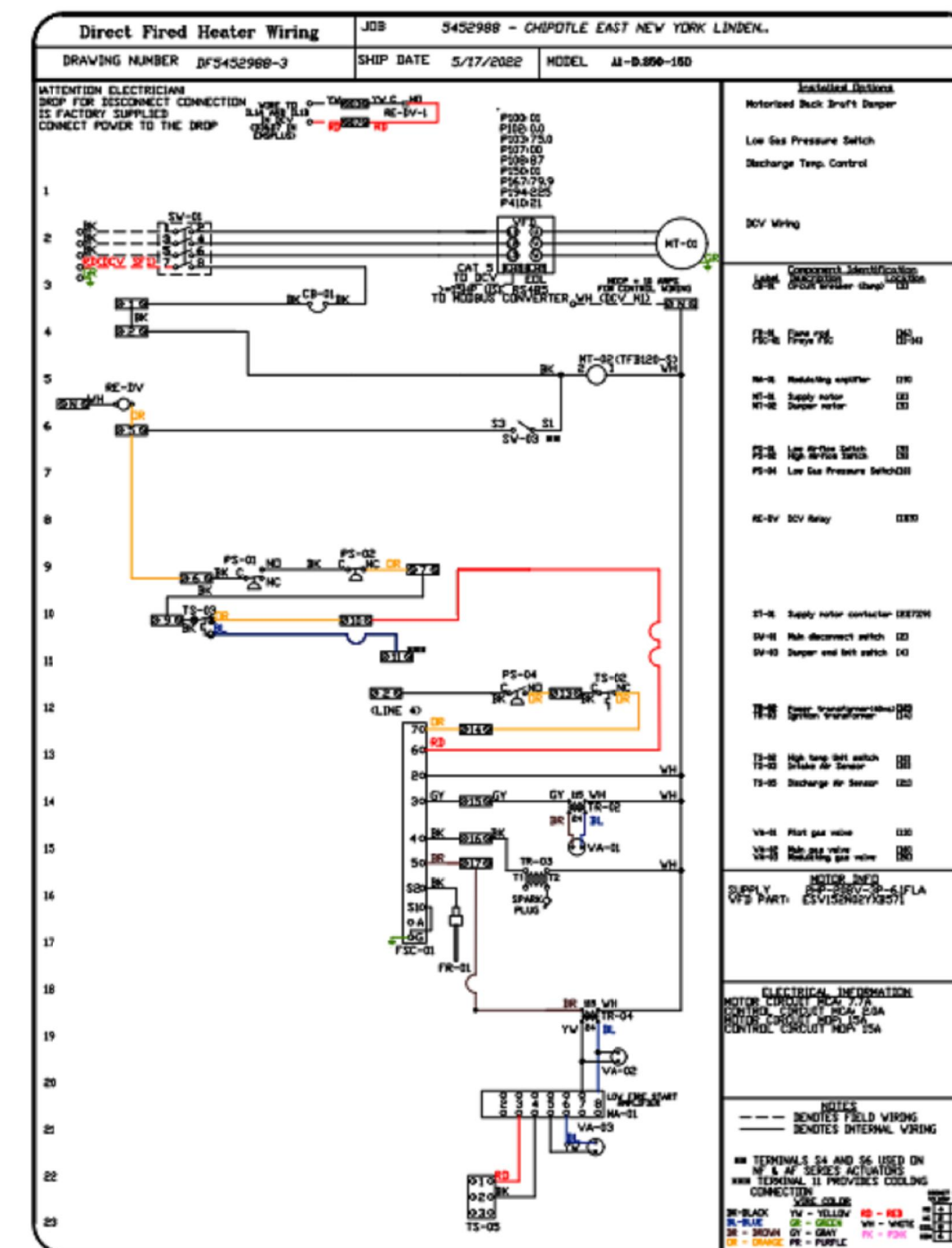
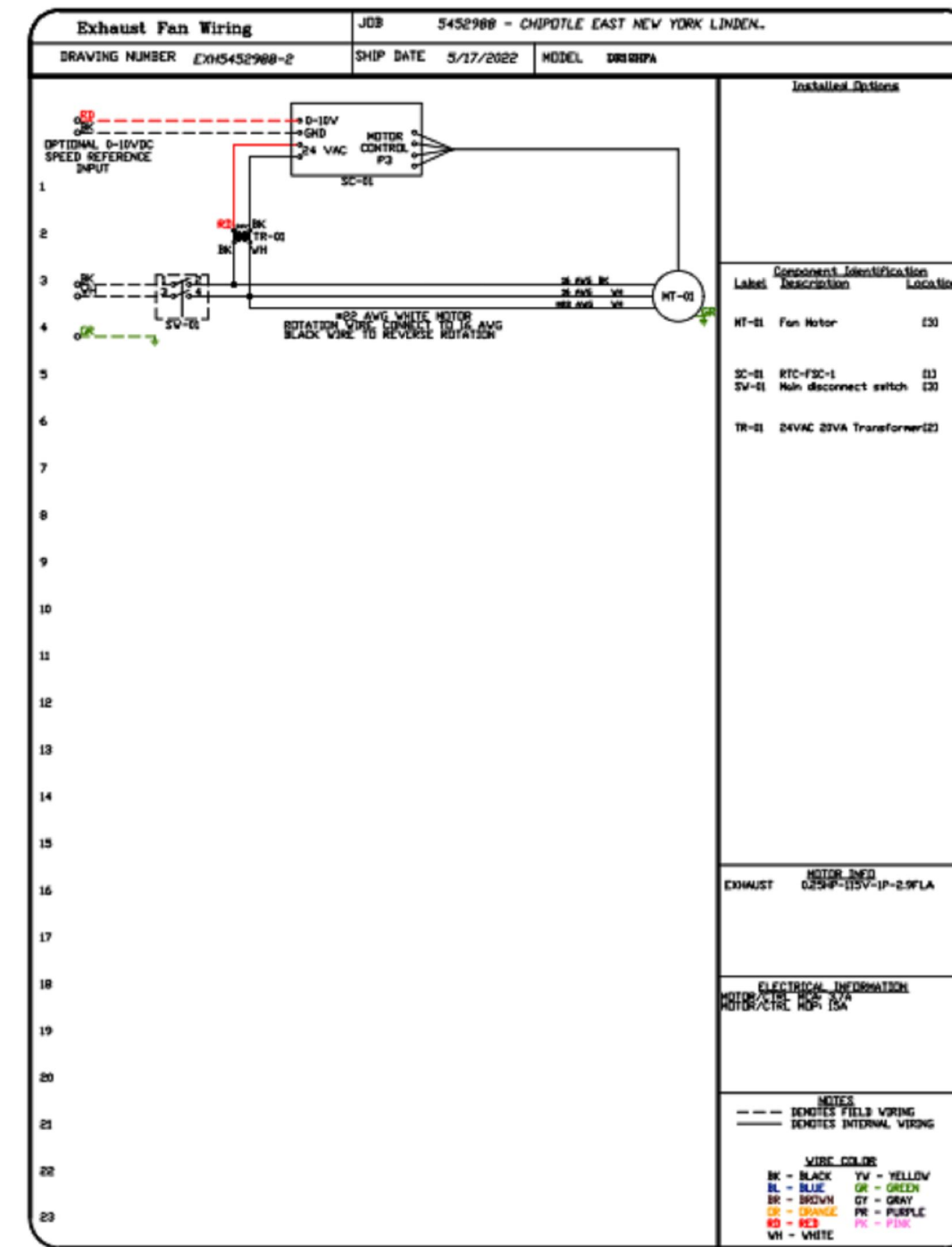
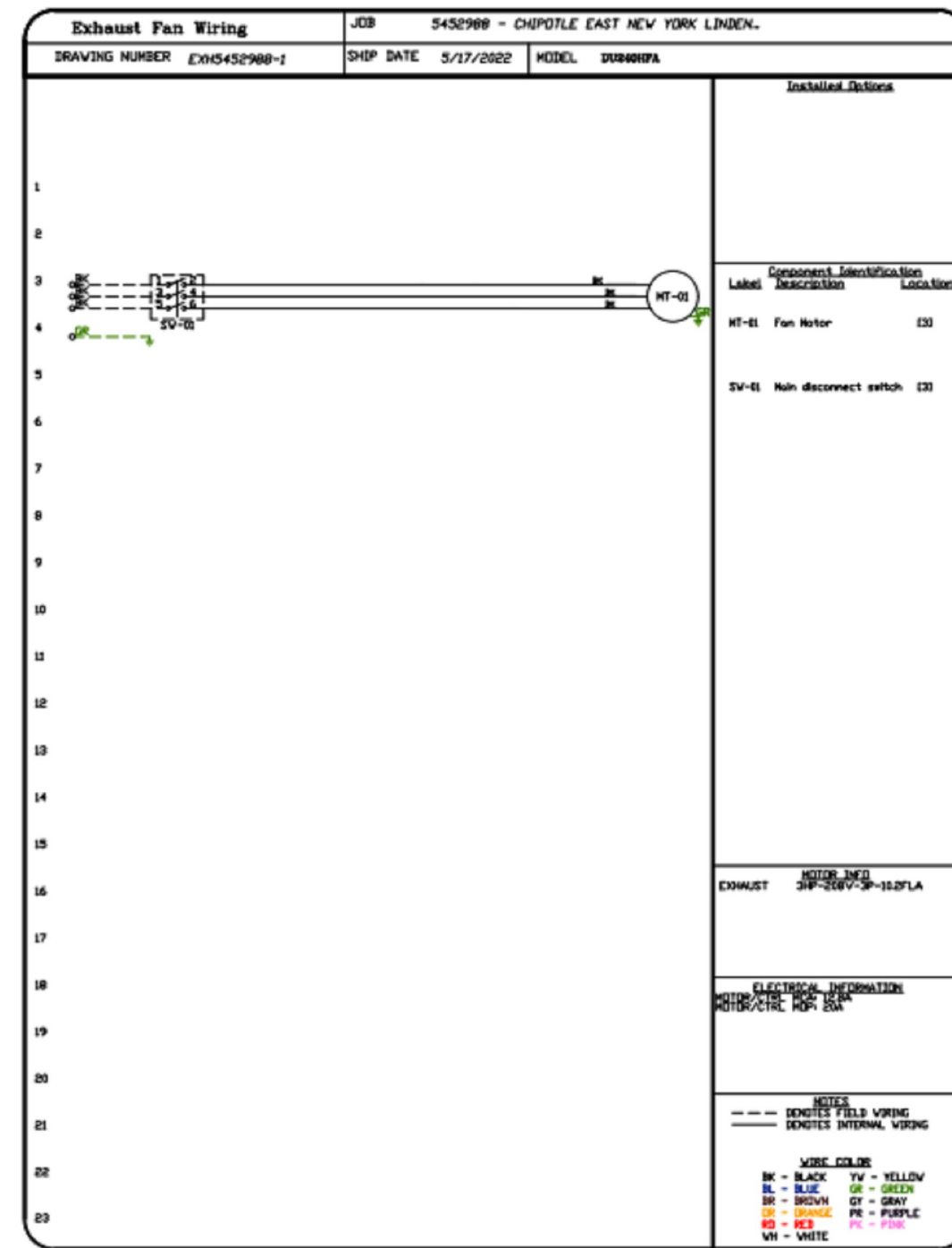
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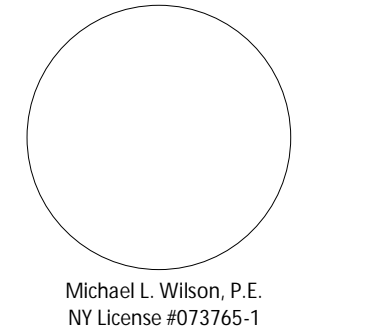


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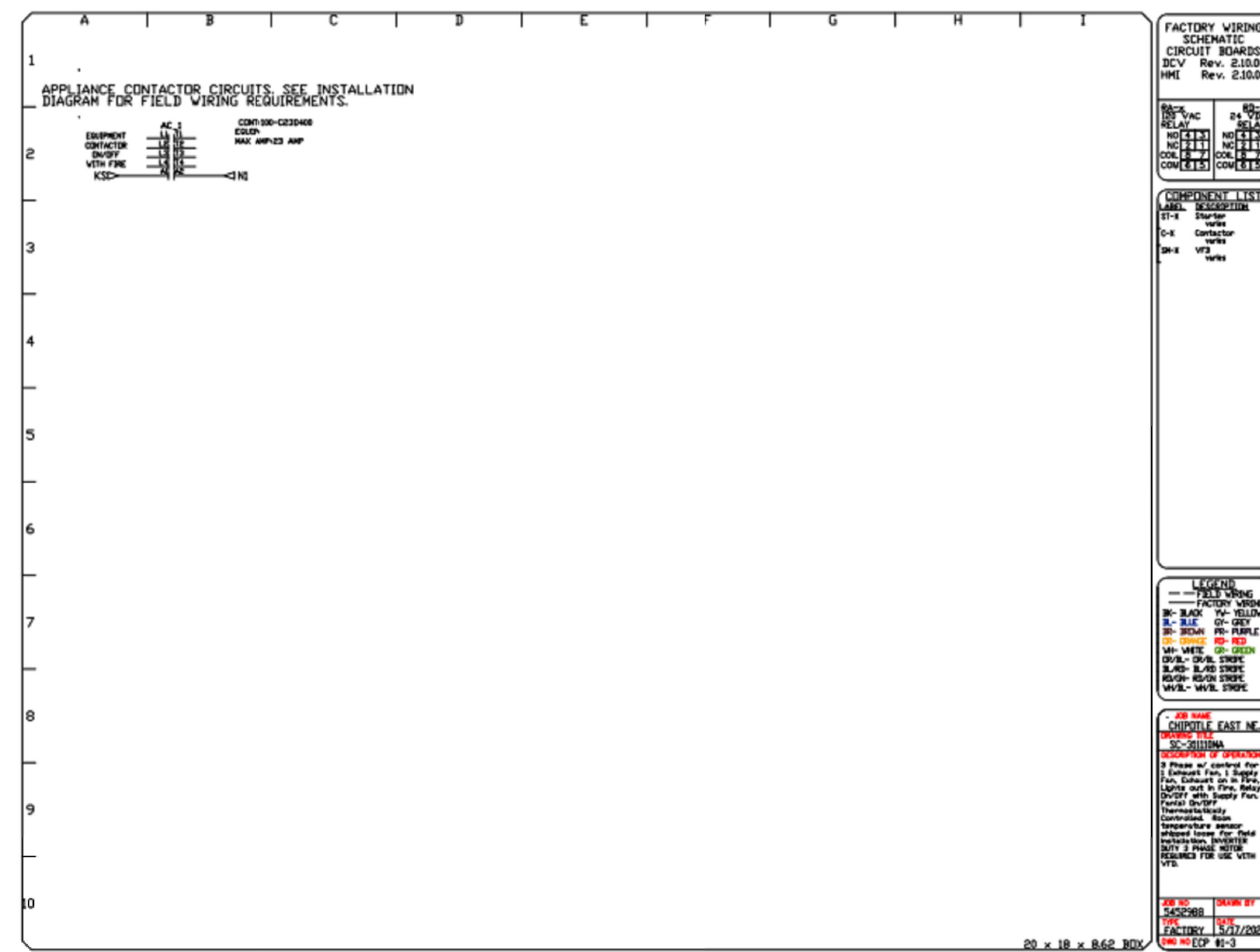
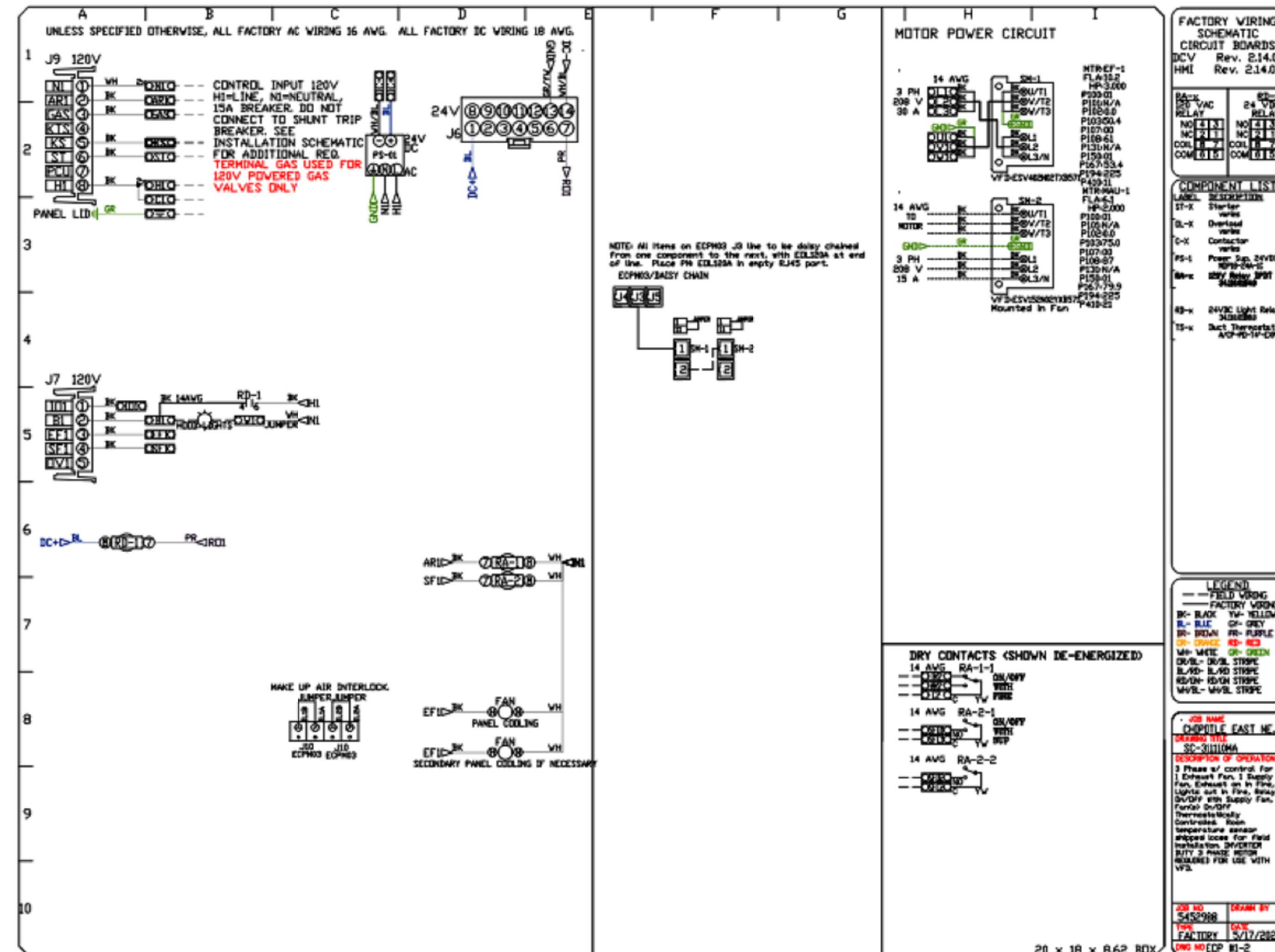
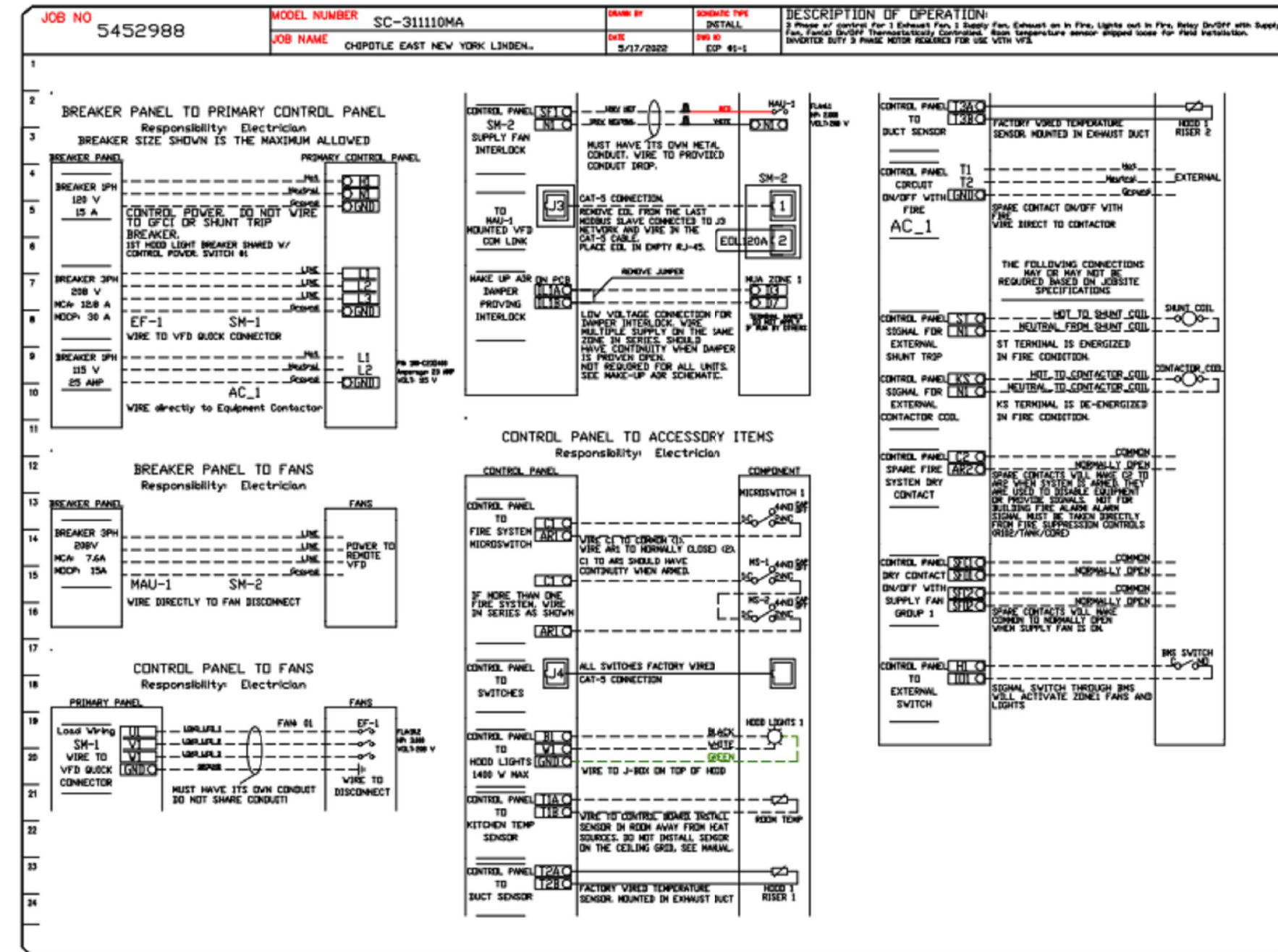
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ELECTRICAL PACKAGE -- JOB#5452988

| NO | TAG | PACKAGE #  | LOCATION             | SWITCHES                  |          | OPTION  | FANS CONTROLLED |        |   |       |      |     |
|----|-----|------------|----------------------|---------------------------|----------|---|-----------------|--------|---|-------|------|-----|
|    |     |            |                      | LOCATION                  | QUANTITY |   | FAN TAG         | TYPE   | # | HP    | VOLT | FLA |
| 1  |     | SC-31110MA | UTILITY CABINET LEFT | 03 - UTILITY CABINET LEFT | 1 LIGHT  | SMART CONTROLS THERMOSTATIC CONTROL V/ RELAY ON/OFF WITH SUPPLY | MAU-1           | SUPPLY | 3 | 2,000 | 208  | 6.1 |



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M-407.00



## DUCTWORK INSULATION SPEC

6. DUCTWORK INSULATION
- a. ALL NEW AND EXISTING CONCEALED SHEET METAL SUPPLY DUCTWORK (AND RETURN DUCTWORK IN UNCONDITIONED SPACES) SHALL BE INSULATED WITH 2" THICK FLEXIBLE DUCT INSULATION, WITH A MINIMUM R VALUE OF 6, WITH REINFORCED FOIL FACED, FLAME RESISTANT, ALUMINUM FOIL VAPOR BARRIER SIMILAR TO KNAUF FRIENDLY FEEL DUCT WRAP WITH ECOSE. THE DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. THE SHEET METAL SIZE SHALL BE INCREASED TO ACCOMMODATE THE LINER. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. ALL INSULATION SHALL BE SECURED WITH DUCT ADHESIVE AND SEAMS SEALED BY TWO-INCH SEALING LIP WITH ADHESIVE AND FASTENED WITH 16 GAUGE RUST RESISTANT WIRE OR FIBERGLASS CORD ON 12" CENTERS. ON DUCTS OVER 24" WIDE, WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE FOR FASTENING INSULATION.
  - b. FRESH AIR INTAKE, MIXED AIR DUCTWORK AND LOUVER BLANK-OFF PANELS SHALL BE INSULATED WITH RIGID DUCT INSULATION 2" THICK WITH A MINIMUM R VALUE OF 8, WITH WHITE VINYL FOIL BARRIER FACING SIMILAR TO KNAUF ECLIPSE DUCTBOARD WITH ECOSE. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSULATION SHALL BE IMPALED OVER WELDED PINS WITH CLIPS FIRMLY EMBEDDED INTO INSULATION. ALL JOINTS AND CLIPS SHALL BE SEALED WITH MATCHING STRIPS OF VINYL COATED VAPOR BARRIER LAMINATE SIMILAR TO OWENS CORNING 24 ASJ FOR DUCTS.
  - c. ALL SEALING TAPE SHALL CONFORM TO UL181A OR UL181B WHEN USED AS PRIMARY SEALANT.

### 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           |
| FRESH AIR INTAKE DUCTWORK                    | R-VALUE > 8           | R-VALUE > 8           |

**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 CITY ENERGY CONSERVATION CODE.

## REQUIRED INSPECTIONS

SPECIAL INSPECTIONS SHALL BE MADE BY A "SPECIAL INSPECTOR", AN ENGINEER, OR ARCHITECT LICENSED IN NEW YORK STATE WORKING FOR AN APPROVED SPECIAL INSPECTION AGENCY. THE SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS REQUIREMENTS AS DEFINED BY THE NYC BUILDING CODE AND ALL RELEVANT MEMORANDA AND DIRECTIVES THAT APPLY TO THIS WORK. ALL INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH CHAPTER 17 OF THE 2014 NYC BUILDING CODE AND THE DEPARTMENT'S SPECIAL INSPECTIONS RULE.

THE SELECTED CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR AND PERFORMING THE REQUIRED NEW YORK CITY DEPARTMENT OF BUILDINGS SPECIAL INSPECTIONS WITH THE SELECTED EXPEDITOR OF RECORD.

- SPECIAL INSPECTIONS ARE REQUIRED FOR:
- a) MECHANICAL SYSTEMS (BC 1704.16)
  - b) FINAL INSPECTION UNDER DIRECTIVE 14
  - c) ENERGY CODE INSPECTIONS (NYC AND 180NY5000)
  - d) HVAC-R AND SERVICE HEATING EQUIPMENT
  - e) HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS
  - f) HVAC-R AND SERVICE WATER PIPING DESIGN & INSULATION

## BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE DECEMBER 31, 2014 AND ALL AMENDMENTS TO DATE, MATERIALS AND EQUIPMENT SUBJECT TO CONTROLLED INSPECTION.
2. MECHANICAL VENTILATION AIR CONDITIONING AND REFRIGERATION: INSPECTION AND TESTS OF THE REQUIRED VENTILATION SYSTEMS AND NOISE CONTROL AS CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE AND CHAPTER 1 OF THE NEW YORK CITY MECHANICAL CODE.
3. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC., SHALL COMPLY WITH THE FOLLOWING CODE REFERENCE.
  - 3.1. DUCT CONSTRUCTION AND SUPPLY INTAKES, EXHAUST AND RELIEF FILTERS AS PER CHAPTER 6 OF THE 2014 NEW YORK CITY MECHANICAL CODE.
  - 3.2. NOISE CRITERIA LEVELS AND TEST PROCEDURE FOR SOUND POWER LEVELS AS PER CHAPTER 9, SECTION 928 OF THE 2014 NEW YORK CITY MECHANICAL CODE.
  - 3.3. ELECTRIC WIRING EQUIPMENT, FIRE CONTROL AND CONTROLS MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON AS PER NEC.
  - 3.4. 70 DEGREE F WHEN 5 DEGREE OUTSIDE (WITH 15 MPH WIND) AS PER ASHRAE.
4. REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.
5. THE VENTILATION REQUIREMENTS FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS OF CHAPTER 4 (VENTILATION) OF THE NEW YORK CITY MECHANICAL CODE. THE VENTILATION REQUIREMENTS ARE MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND/OR OPENING IN AIR CONDITIONED AREAS.
6. UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR HAVING NOT LESS THAN FIVE (5) YEARS OF EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. THE SHALL ALSO FILE WITH THE CERTIFICATION, A REPORT OF THE TEST, THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE. BASE BUILDING PLANS ARE FILED FOR SINGLE TENANT OCCUPANCY. ALL TENANT PLANS WILL BE FILED UNDER SEPARATE APPLICATIONS.
7. DETAIL OF DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE 2014 NEW YORK CITY MECHANICAL CODE. UNLESS OTHERWISE NOTED, ALL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED IRON. SEE DETAIL FOR METHOD USED FOR HANGING DUCT.
8. ALL VENTILATING AND HANGING DUCTWORK, BOTH HIGH AND LOW VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, LATEST EDITION.
9. ALL FIRE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY BOARD OF STANDARDS AND APPEALS AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFU PAMPHLETS 90A AND 90B). FIRE DAMPERS SHALL BE AIR BALANCE AND TESTING CO., B.S.A. CATALOG NO. 100-6-SM OR IF DIFFERENT MANUFACTURED, NUMBER SHALL BE FILED AT THE COMPLETION OF THE INSTALLATION.
10. THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
11. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE.

Consultant:



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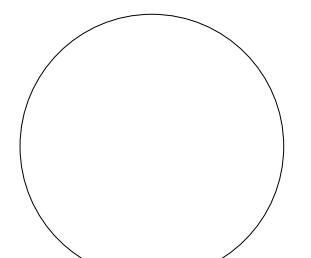


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NY License #073785-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.

DRAWN BY: PCE

CHECKED BY: AJS

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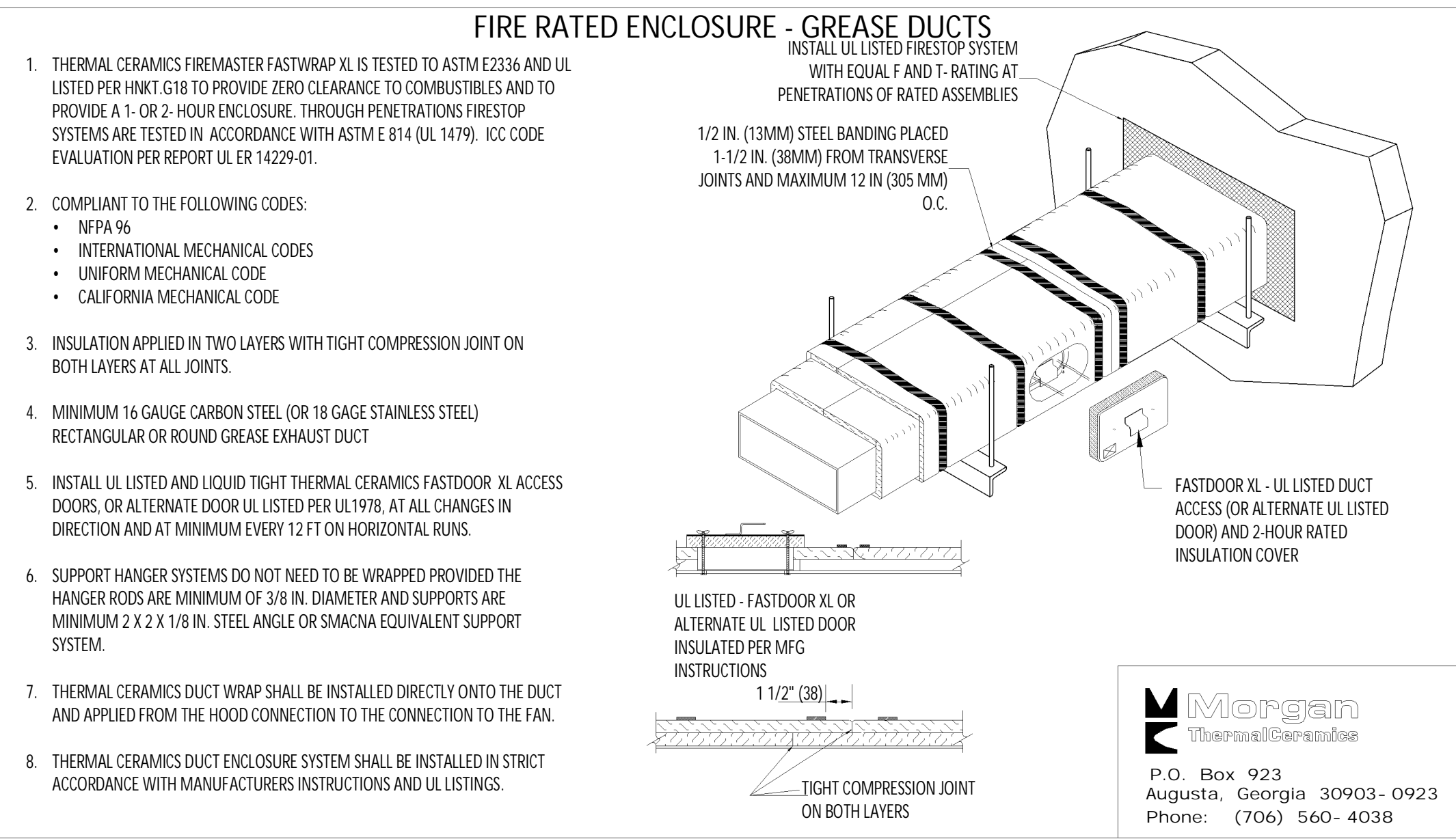
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SHEET TITLE:

HVAC SCHEDULES

SHEET NUMBER:

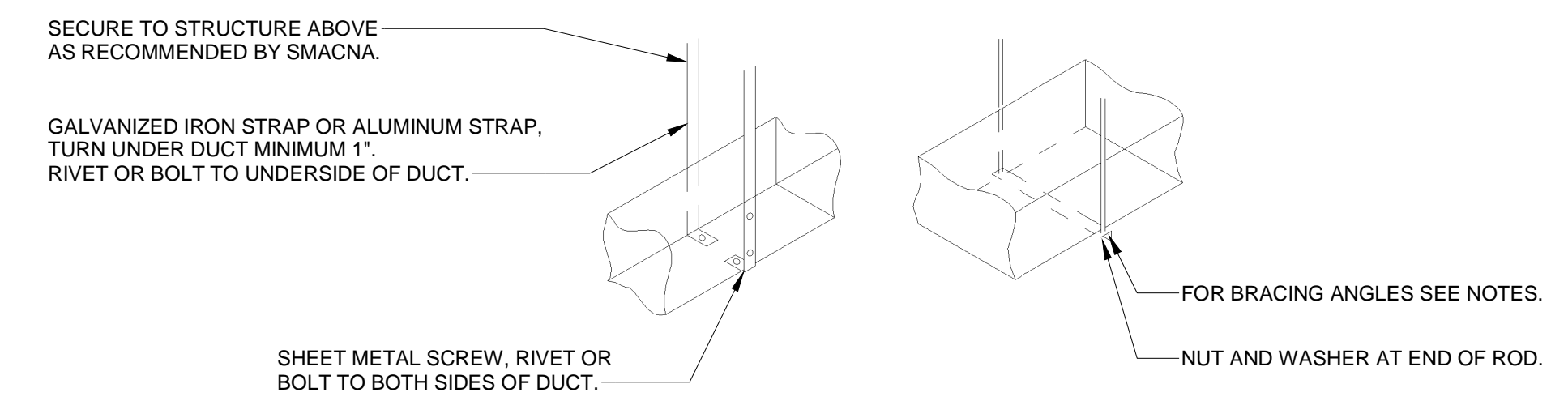
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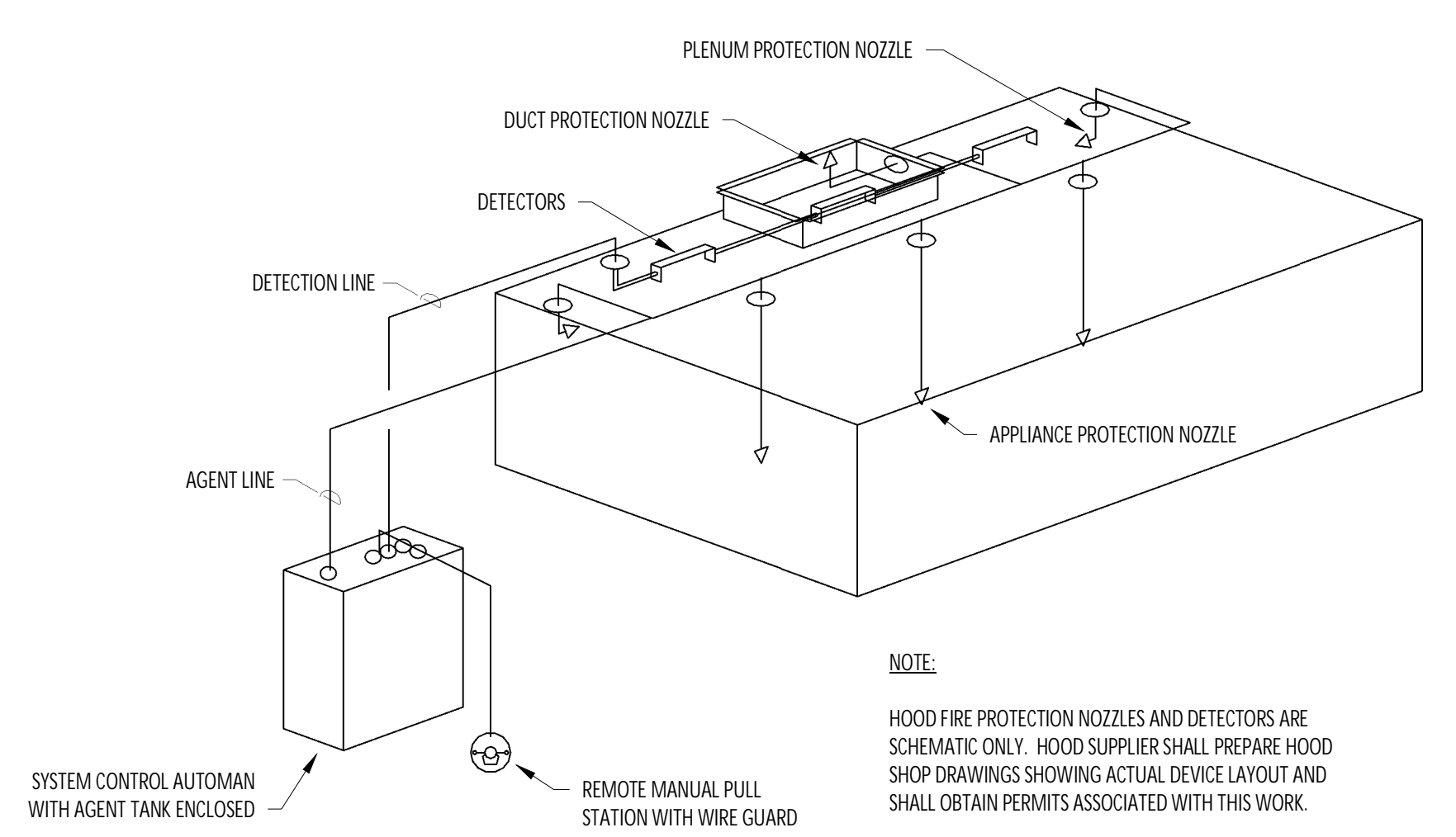
1 FIREMASTER DUCT WRAP - UL HNK1-G18  
NOT TO SCALE

### RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

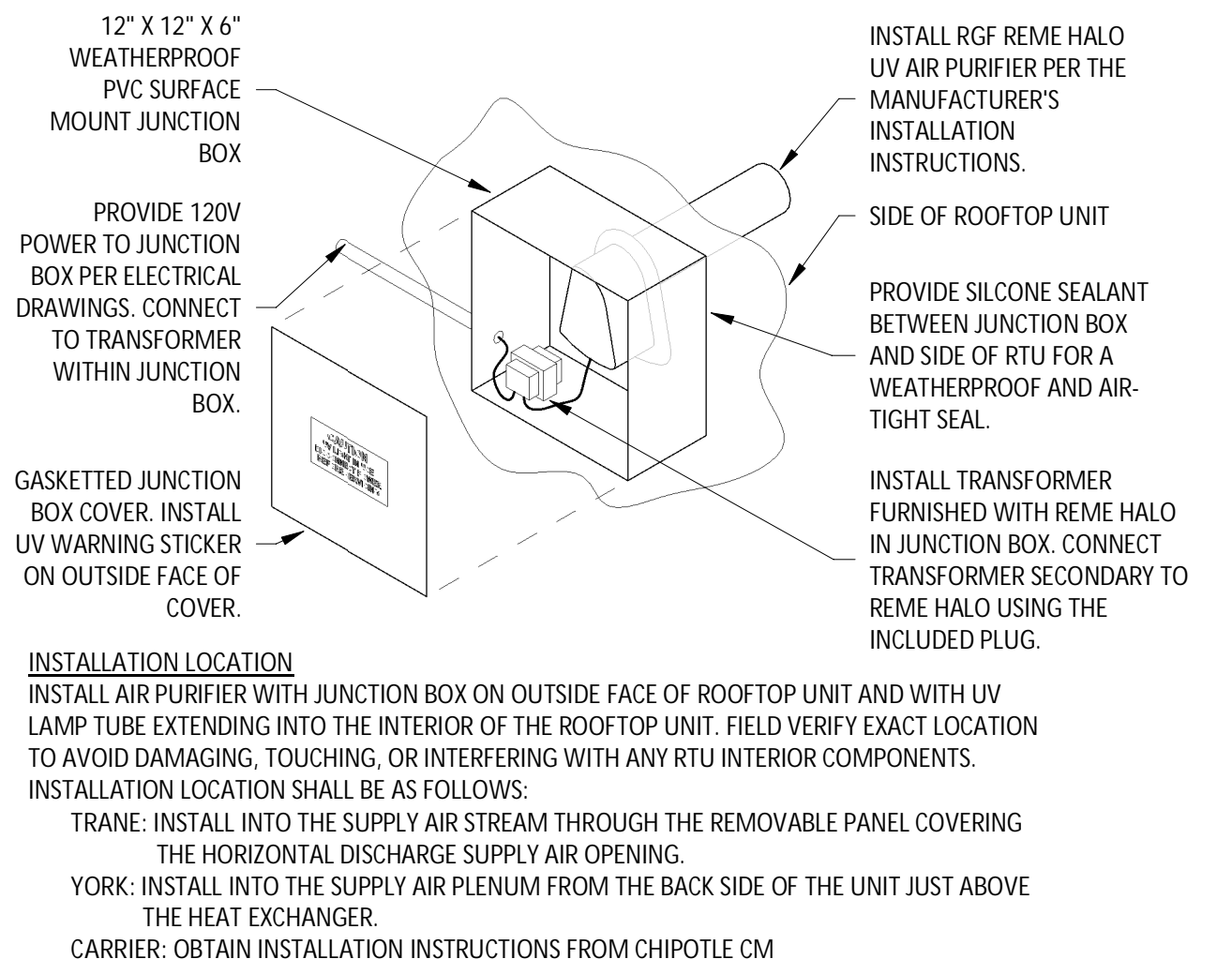
| HALF DUCT PERIMETER RANGE | PAIR AT 10' SPACING |                 | PAIR AT 8' SPACING |                 | PAIR AT 5' SPACING |                 | PAIR AT 4' SPACING |                 |
|---------------------------|---------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
|                           | 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"            |



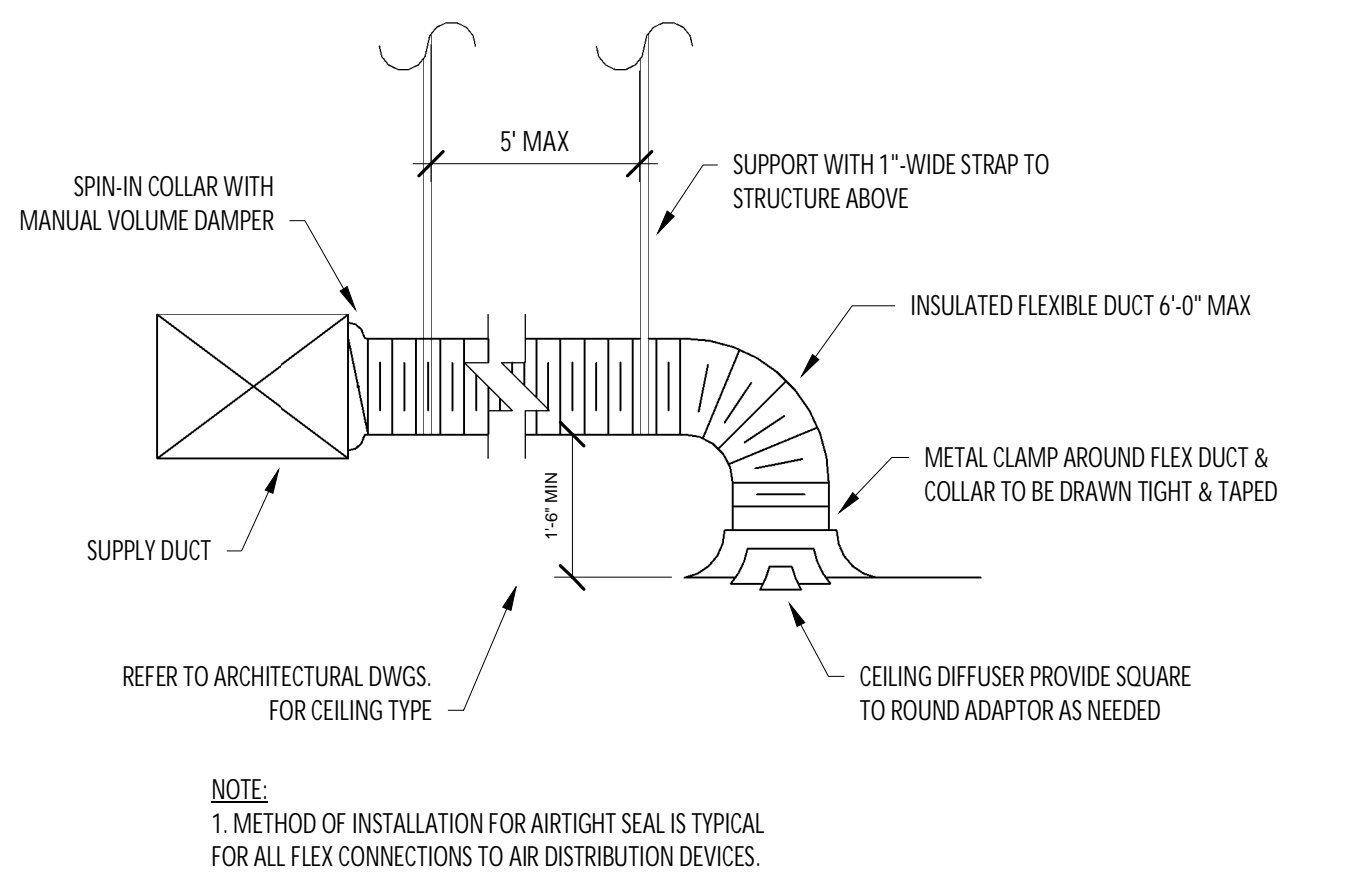
3 HVAC - DUCT HANGER DETAILS  
NOT TO SCALE



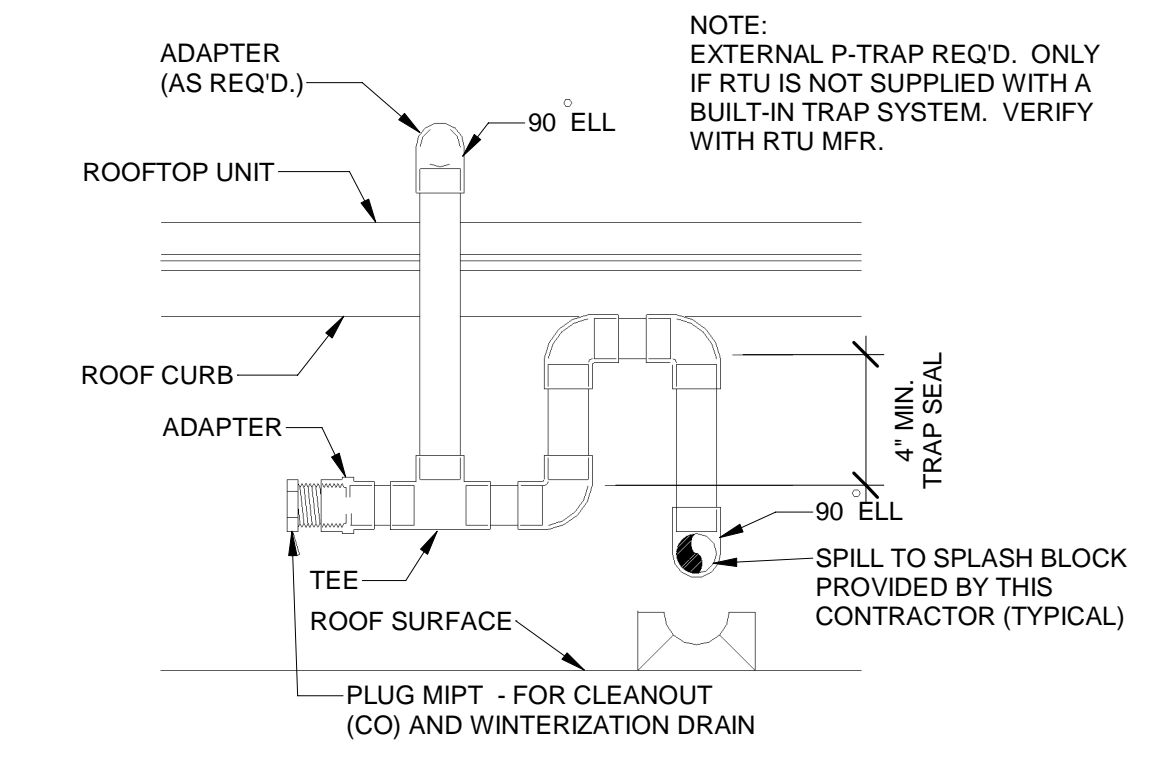
4 HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC  
NOT TO SCALE



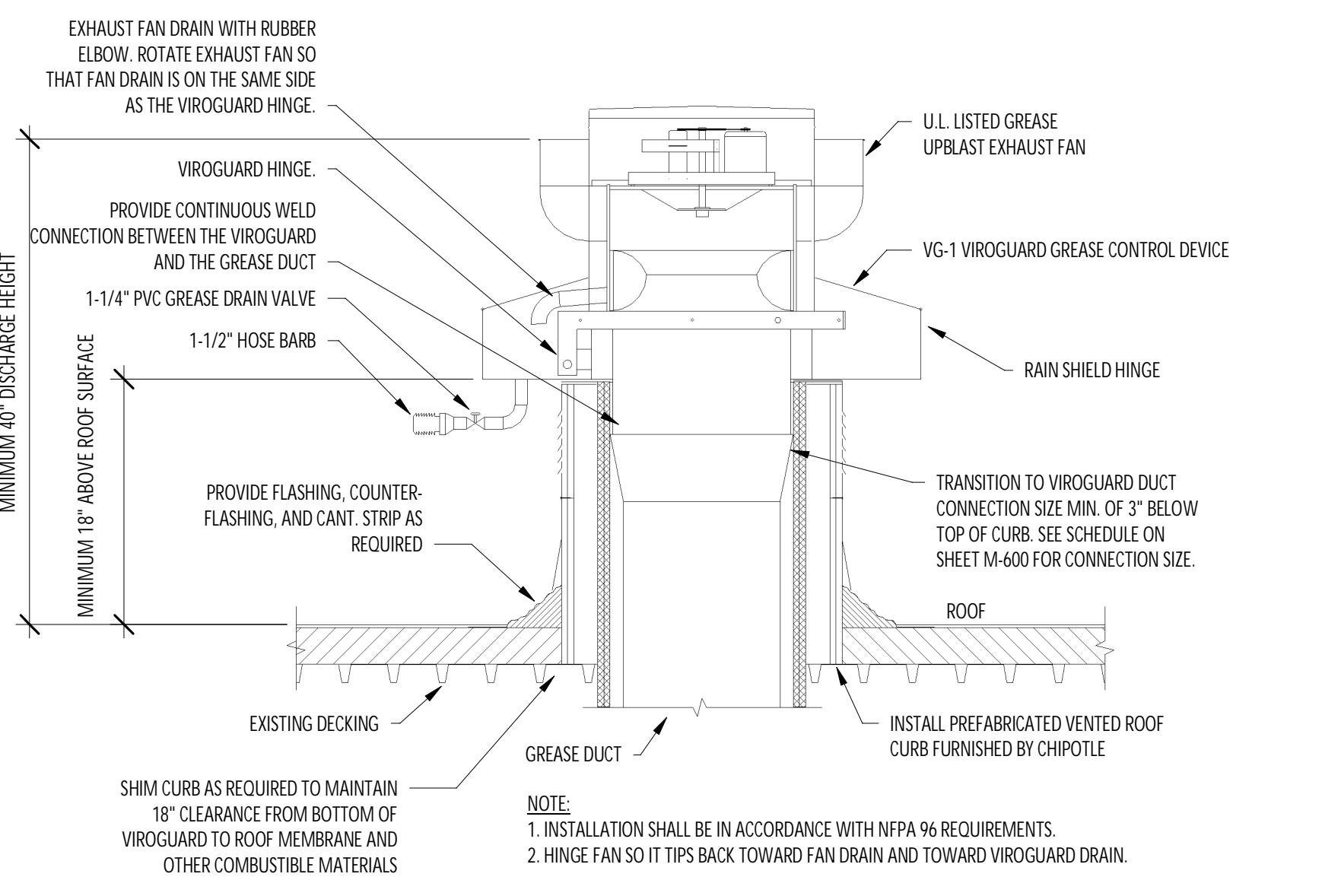
5 UV AIR PURIFIER INSTALLATION  
NOT TO SCALE



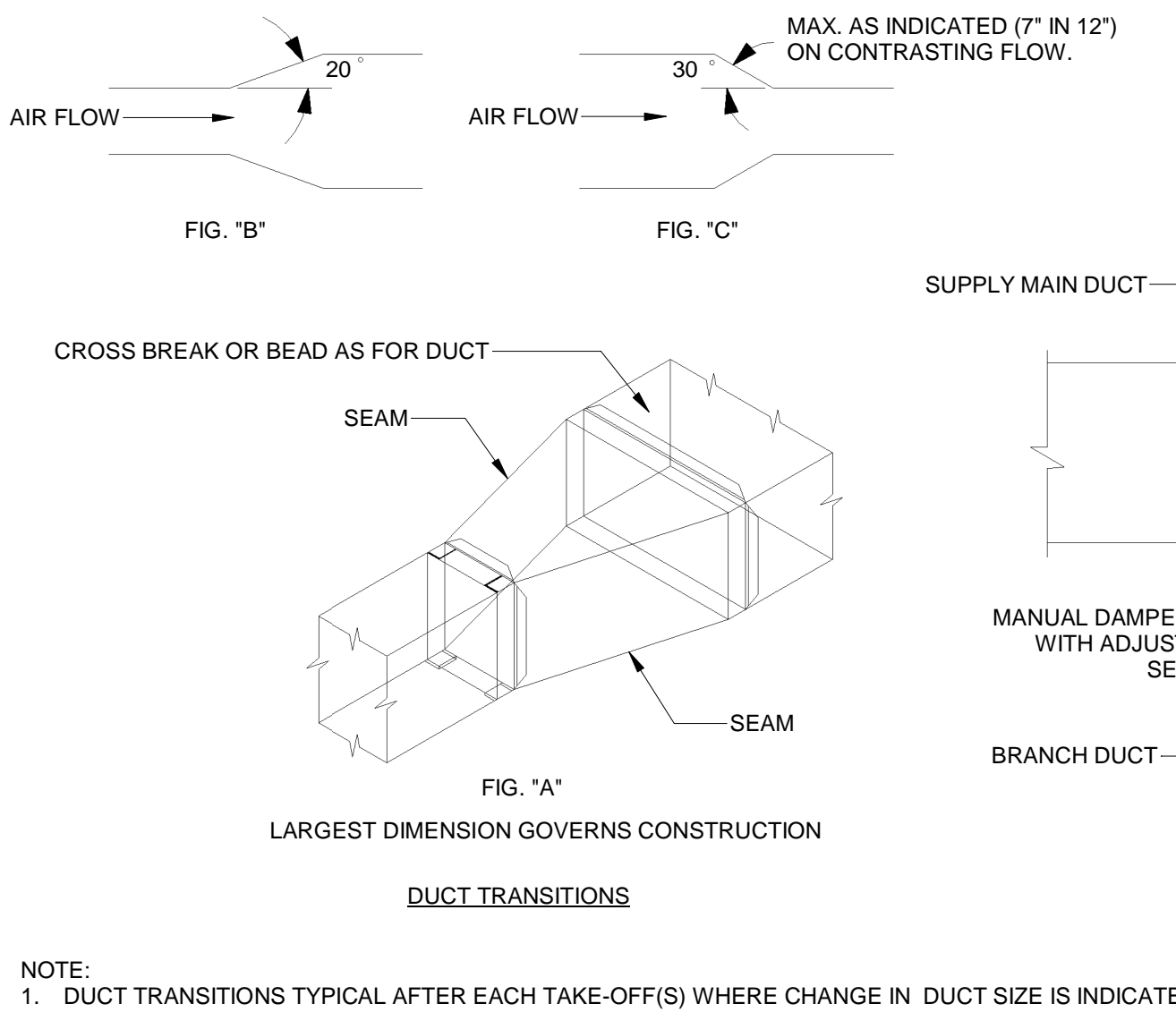
6 HVAC - DIFFUSER CONNECTION  
NOT TO SCALE



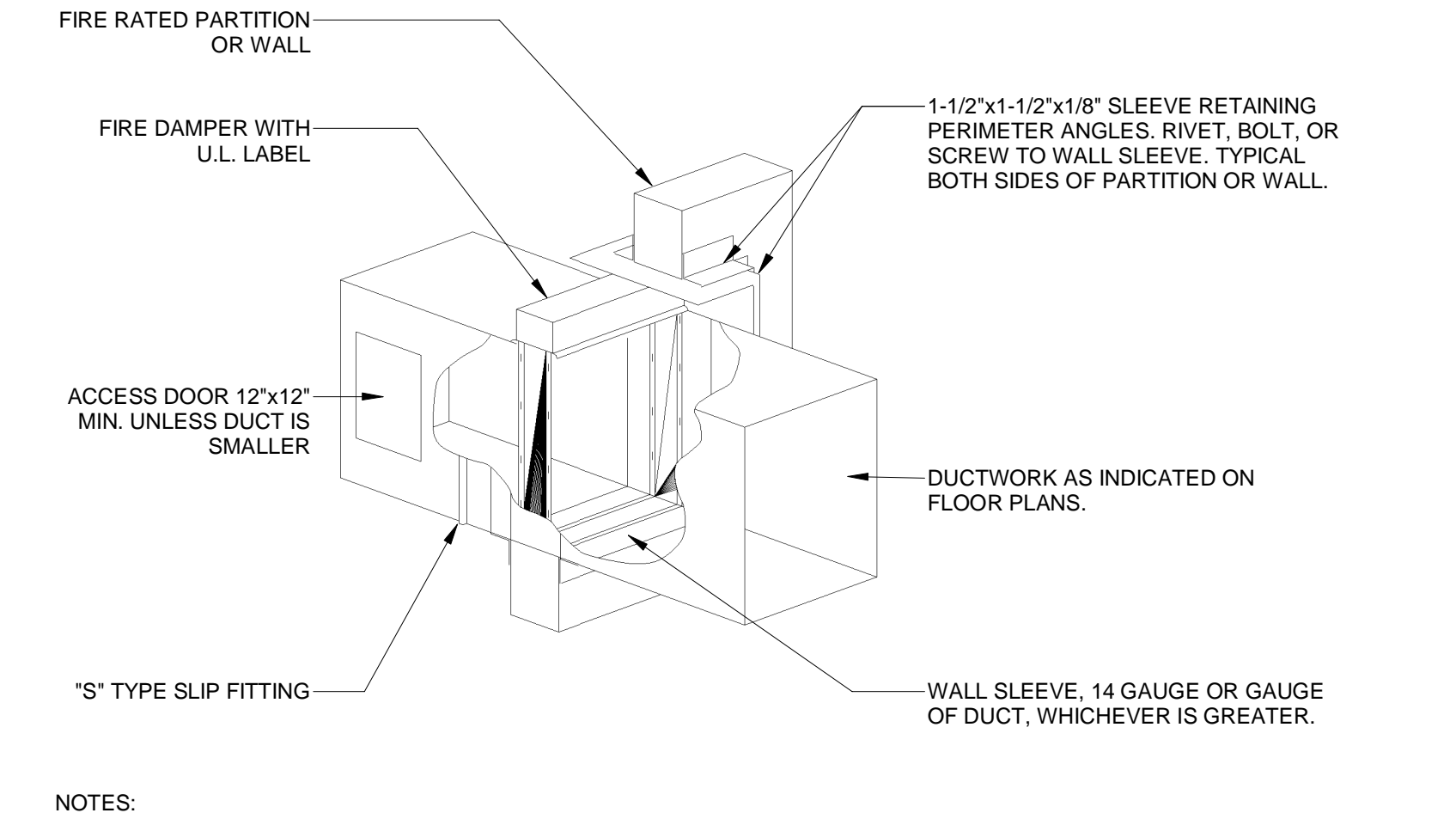
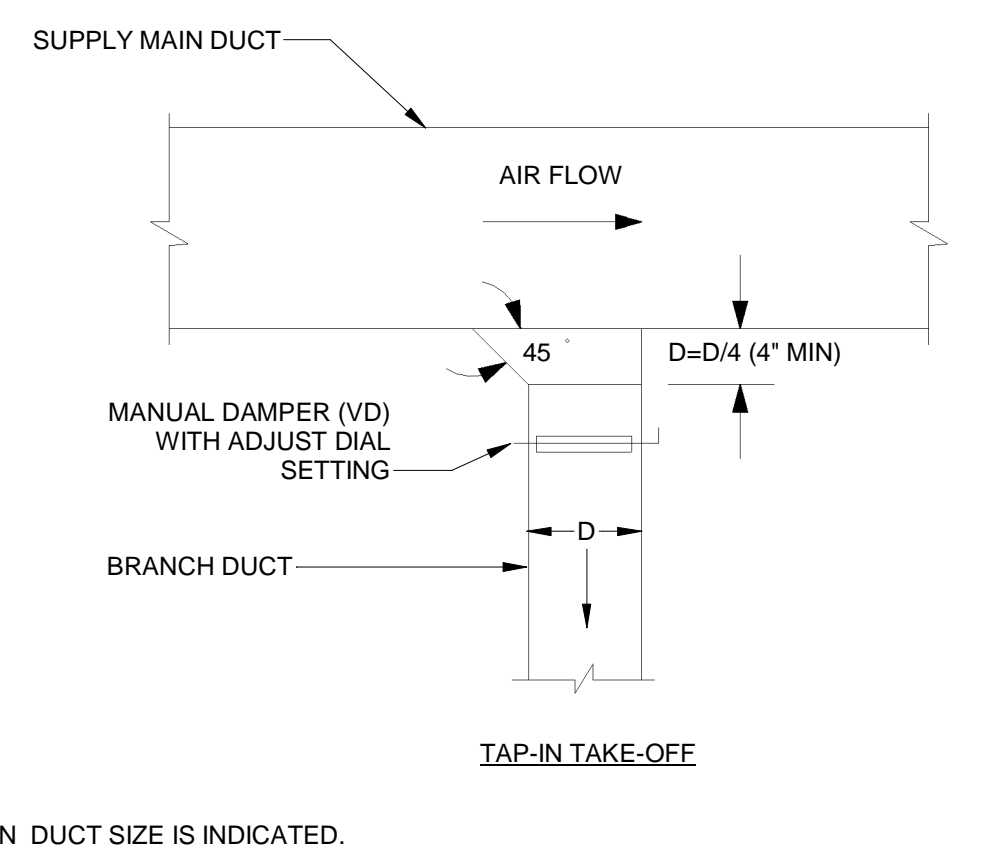
7 HVAC - CONDENSATE PIPING FROM RTU  
NOT TO SCALE



8 GREASE EXHAUST FAN  
NOT TO SCALE



9 HVAC - DUCT TRANSITION DETAILS  
NOT TO SCALE



10 HVAC - FIRE DAMPER DETAIL  
NOT TO SCALE

2022-DB#1/P#1-4

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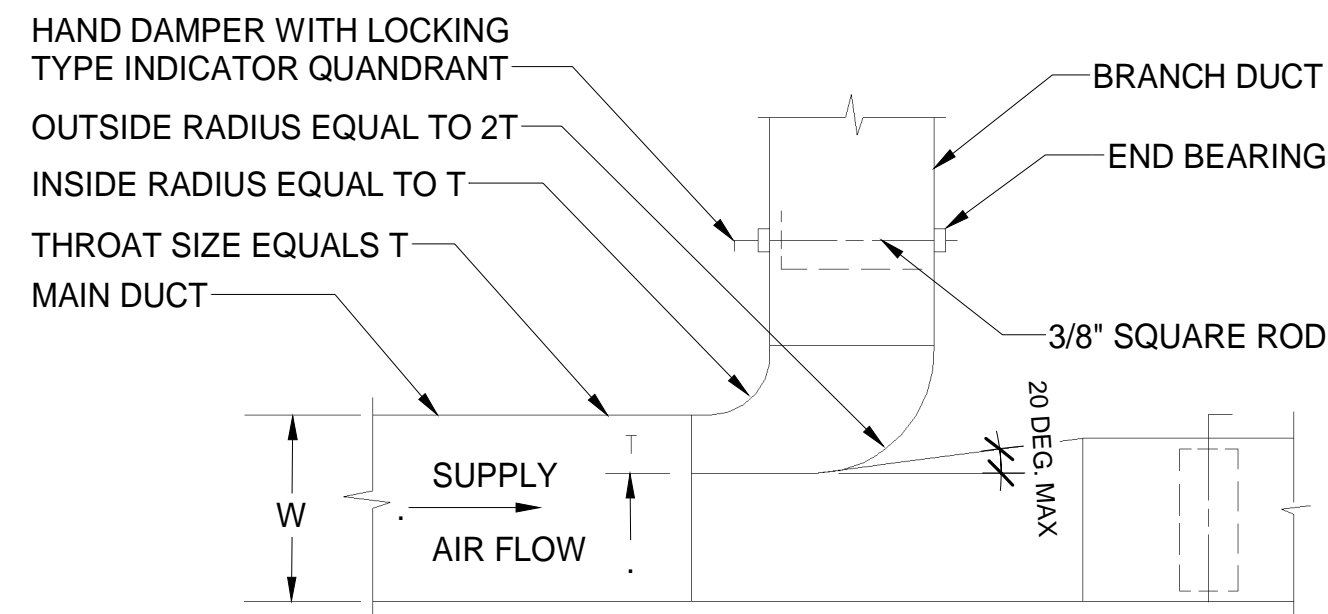
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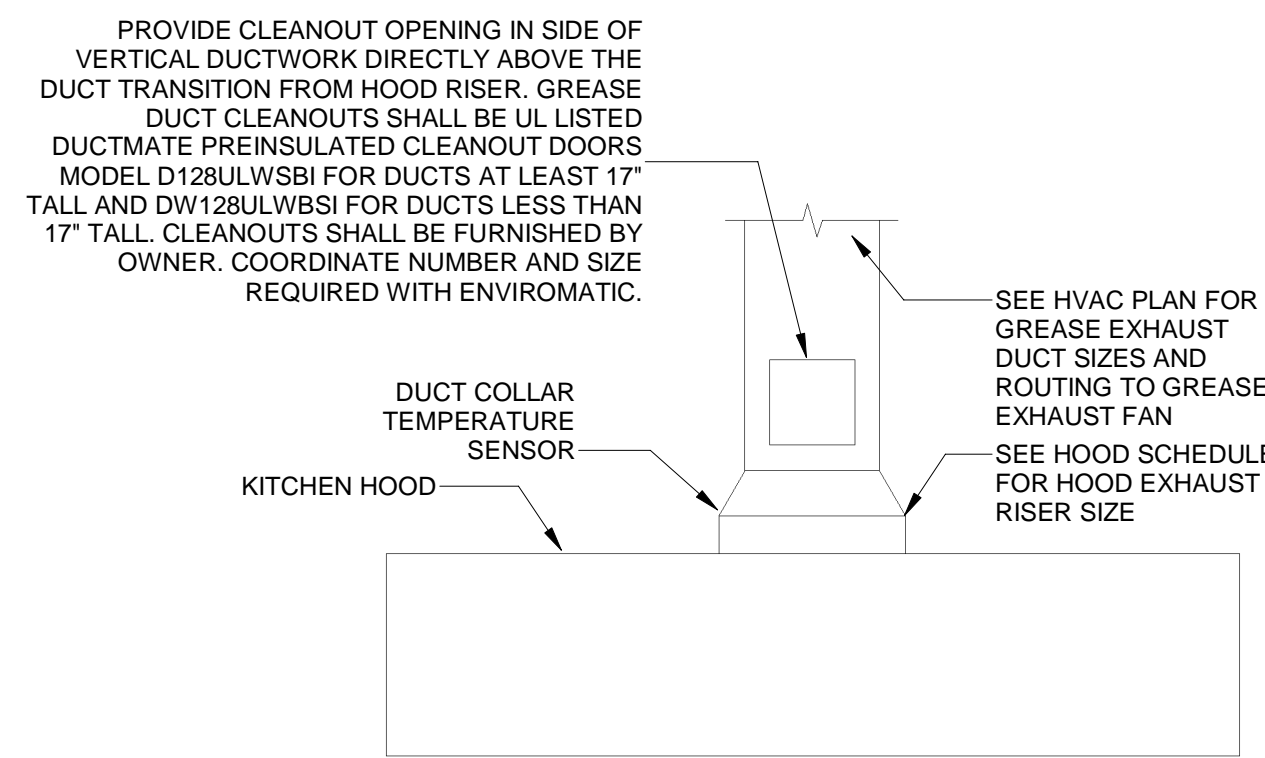
HVAC DETAILS

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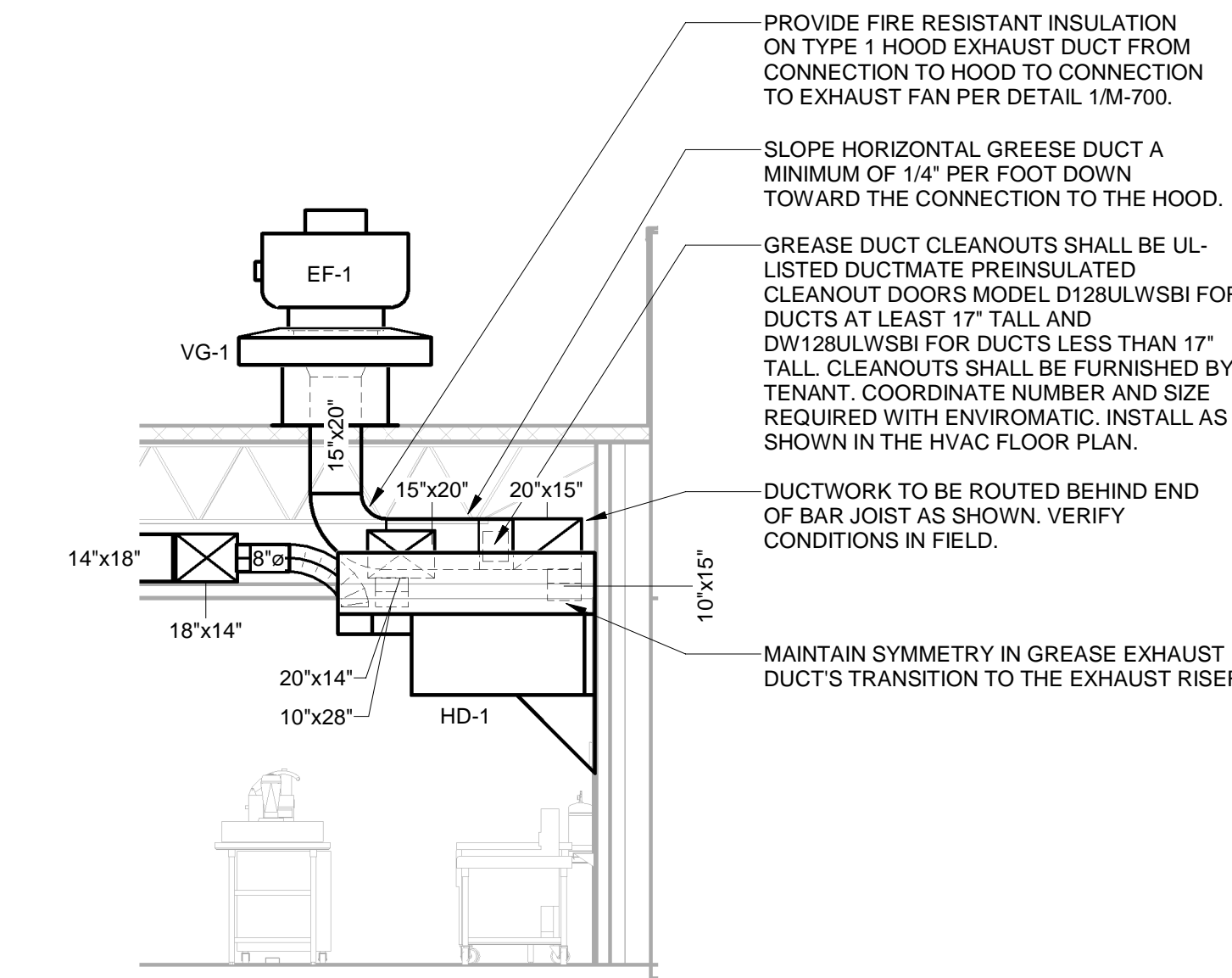


- NOTES:
- FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM. MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
  - MINIMUM T = 4".

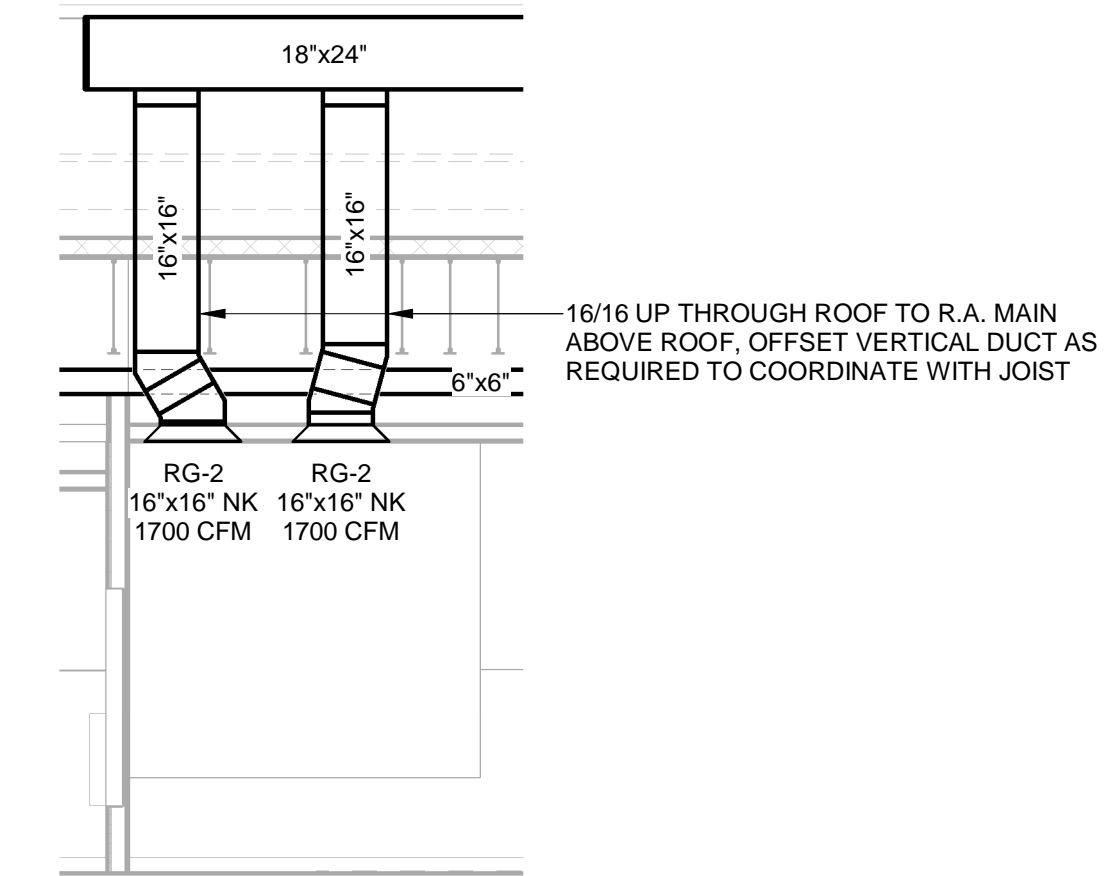
1 HVAC - RECTANGULAR DUCT BRANCH  
NOT TO SCALE



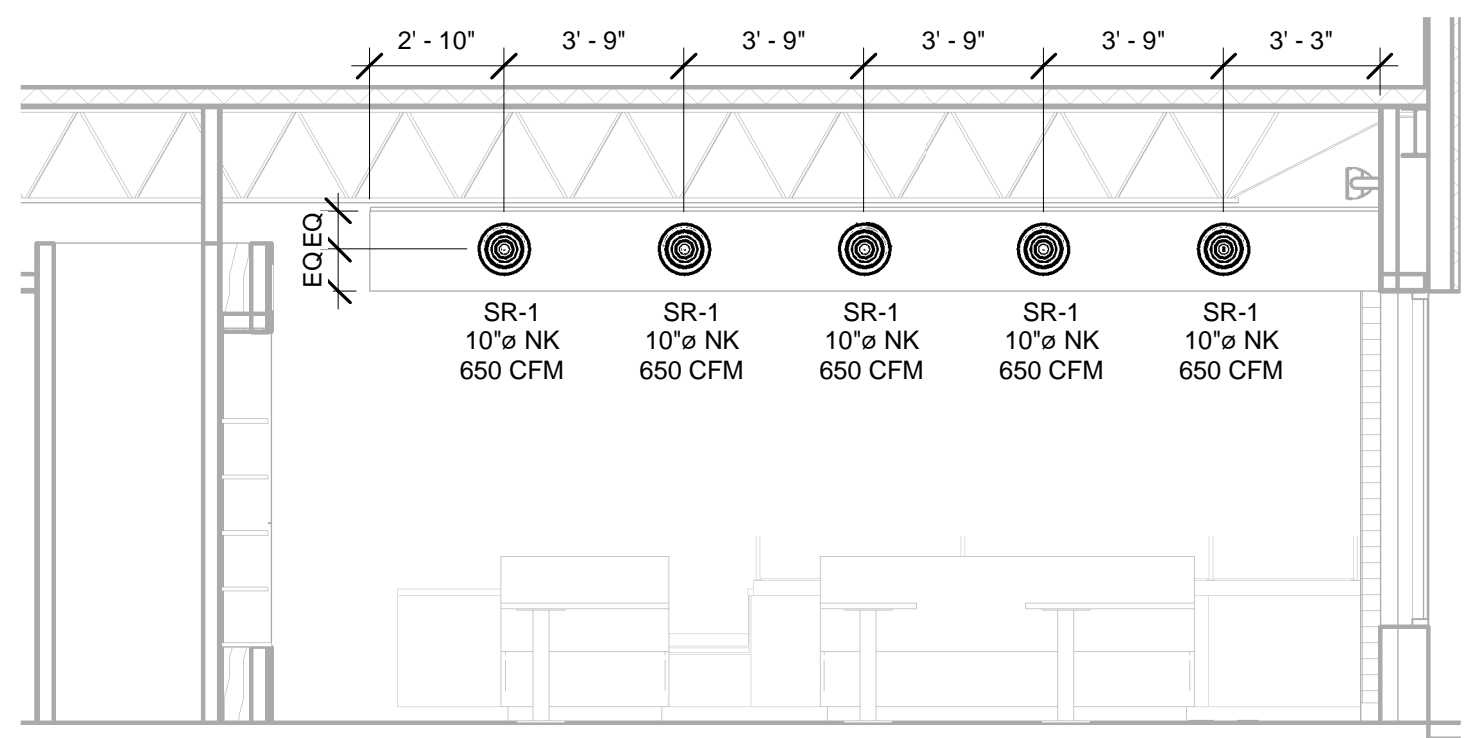
2 HVAC - GREASE EXHAUST DUCT AT HOOD  
NOT TO SCALE



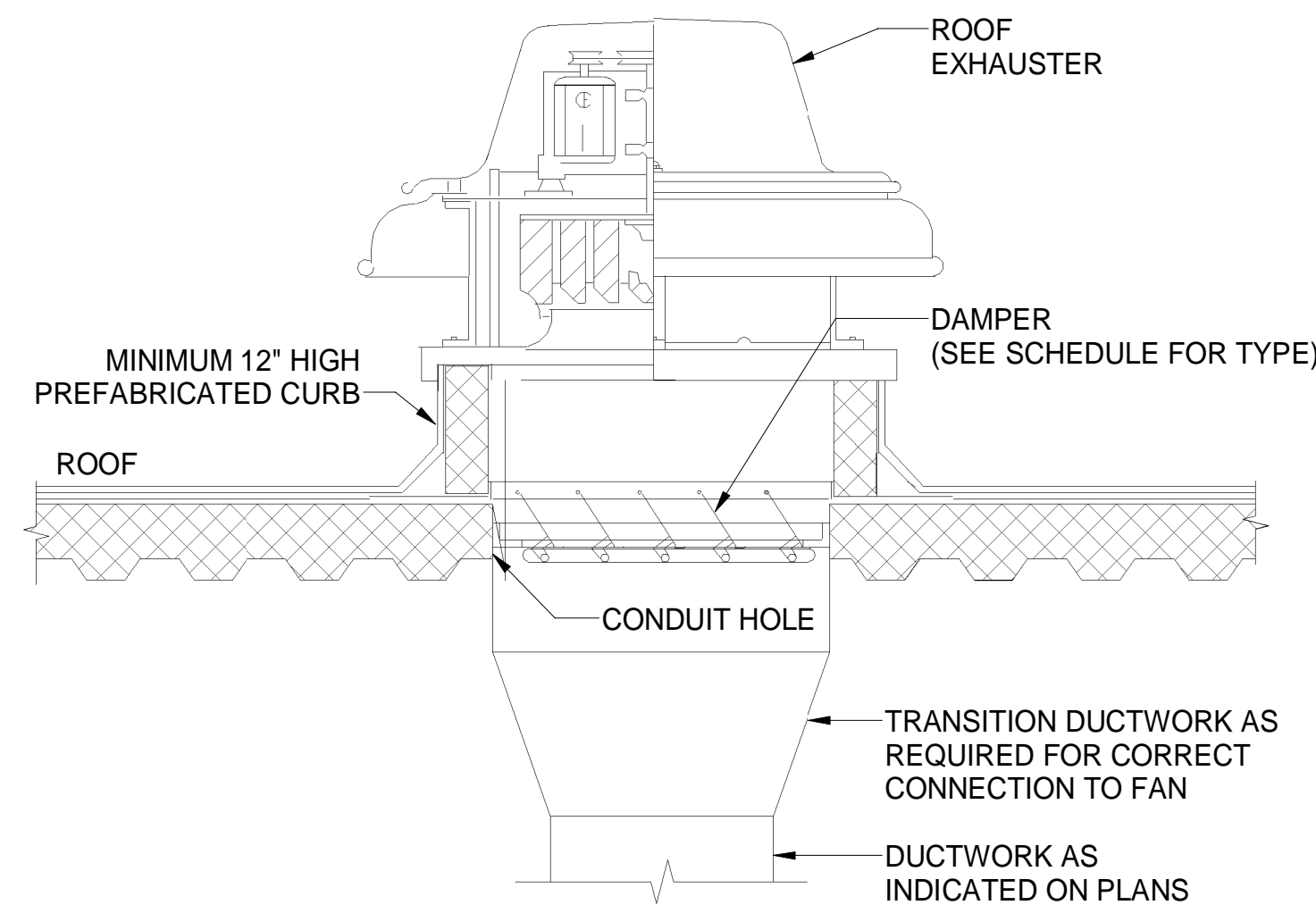
3 HVAC - HOOD DUCTWORK SECTION  
1/4" = 1'-0"



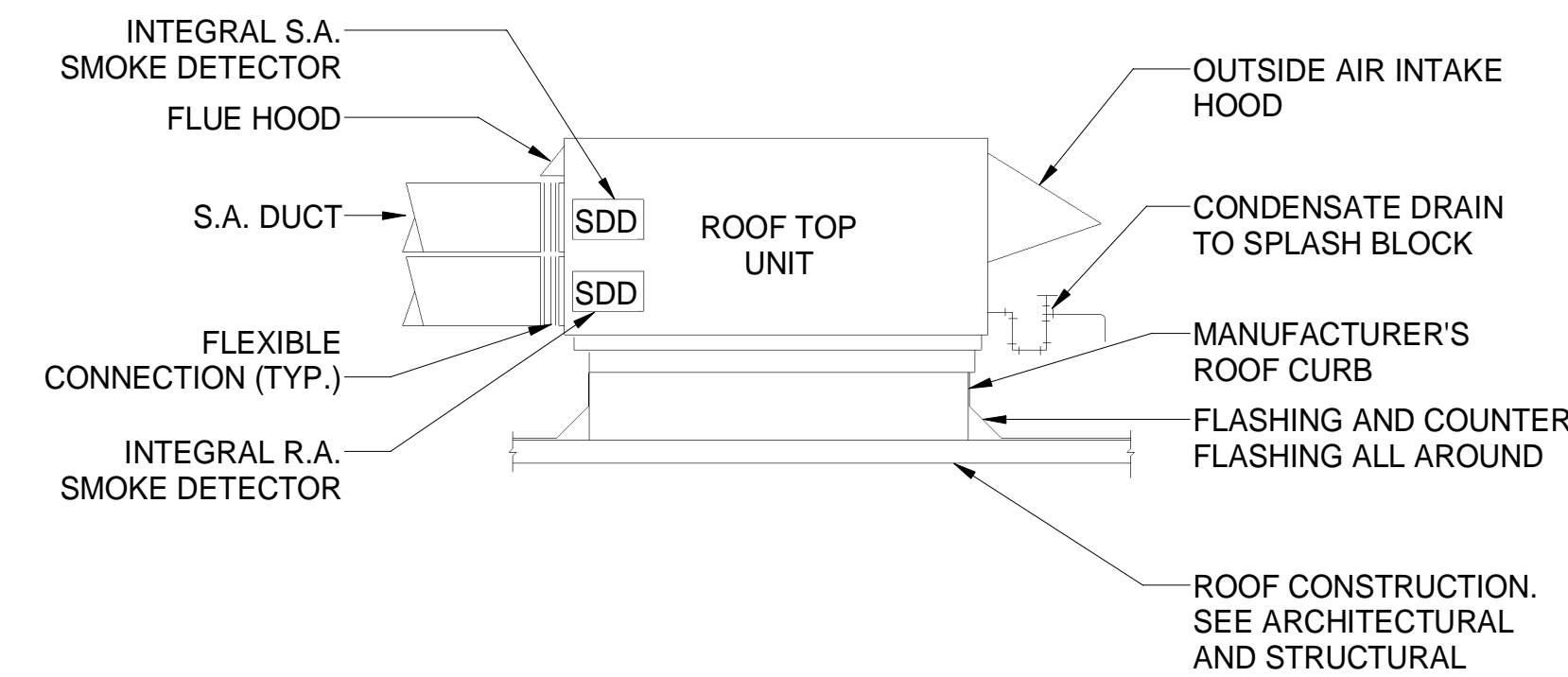
4 HVAC - DINING ROOM RETURN SECTION  
1/4" = 1'-0"



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

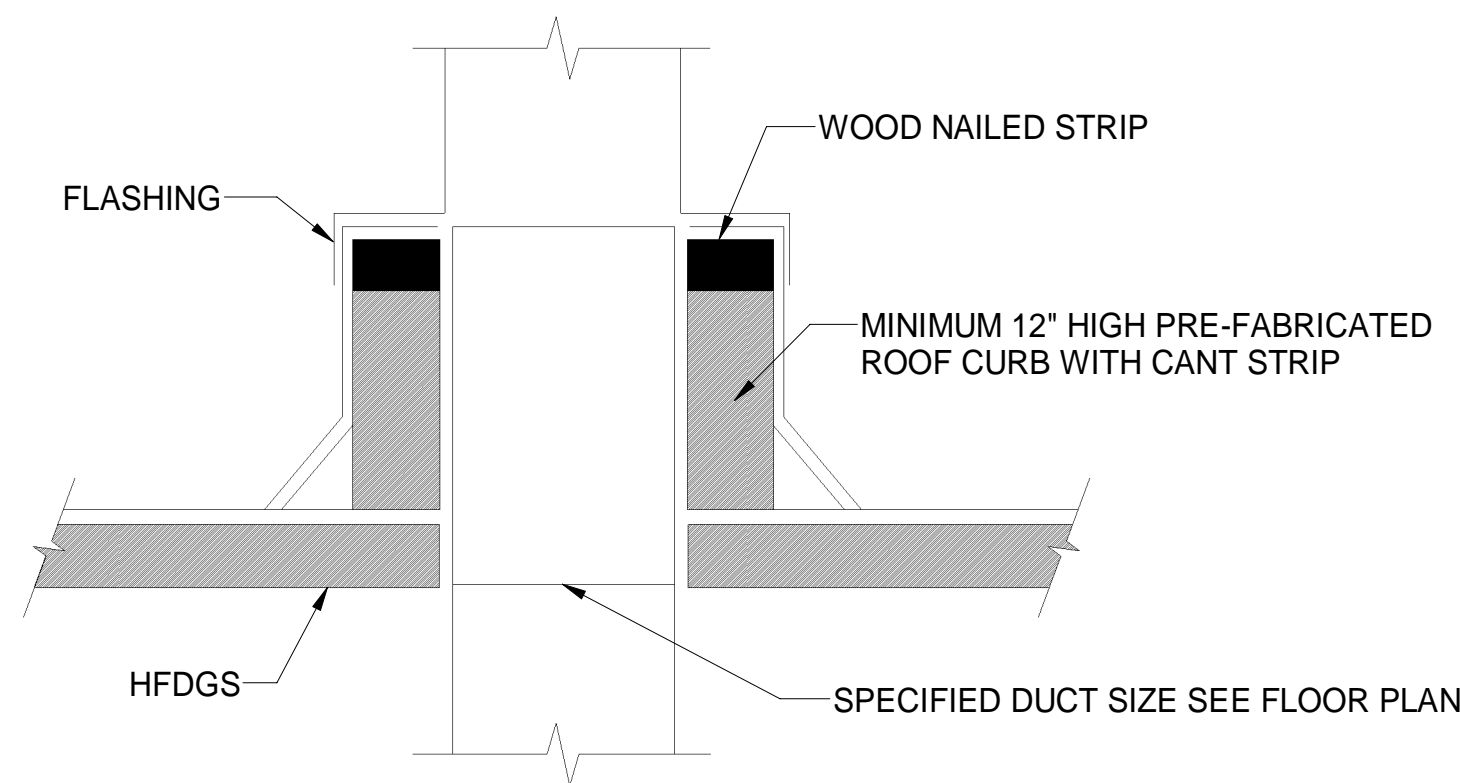


6 HVAC - ROOF MOUNTED EXHAUST FAN  
NOT TO SCALE



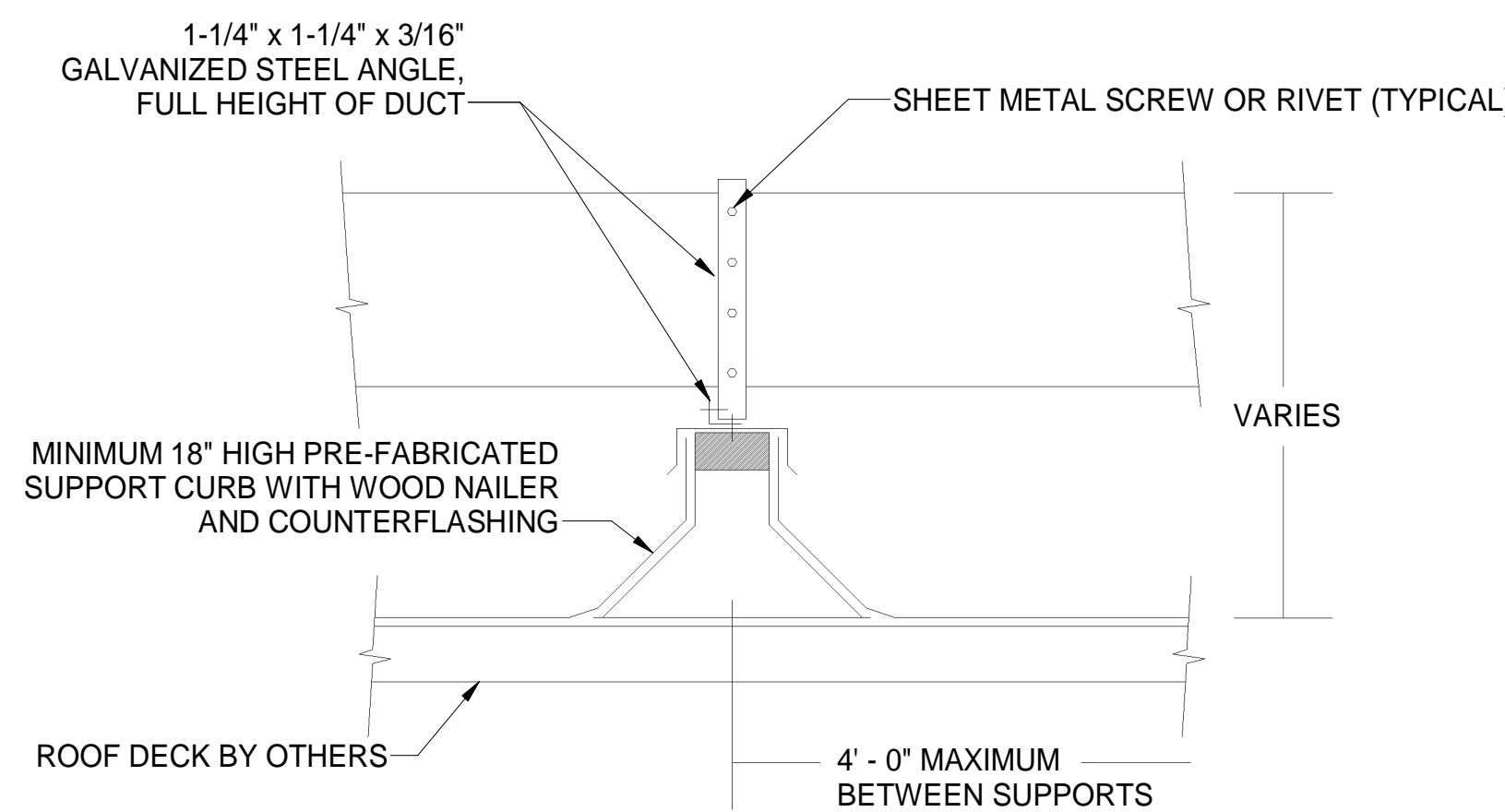
- NOTES:
- THIS DETAIL SHALL SERVE AS A STANDARD FOR INSTALLATION FOR ALL ROOFTOP UNITS. REFER TO FLOOR PLANS FOR EXACT REQUIREMENTS FOR EACH UNIT.
  - SUPPLY AND RETURN AIR CONNECTIONS ARE SCHEMATIC. REFER TO PLAN SHEETS FOR ACTUAL ORIENTATIONS.
  - INTEGRAL SMOKE DETECTOR IN S.A. AND R.A. DUCTS FURNISHED WITH UNIT AND WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN UNIT WHEN SMOKE IS DETECTED.

7 HVAC - ROOFTOP UNIT MOUNTING DETAIL (HORIZONTAL DISCHARGE)  
NOT TO SCALE



- 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 TO VOID ROOF GUARANTIES. COORDINATE THE ABOVE WITH THE OWNER AND THE ARCHITECT.

8 HVAC - DUCTWORK ROOF PENETRATION DETAIL  
NOT TO SCALE



- 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 TO VOID ROOF GUARANTIES. COORDINATE THE ABOVE WITH THE OWNER AND THE ARCHITECT.

9 HVAC - ROOFTOP DUCT SUPPORT CURB DETAIL  
NOT TO SCALE



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HVAC DETAILS

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