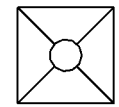
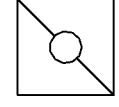
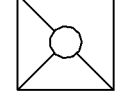
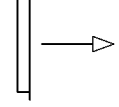
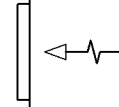

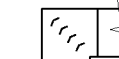

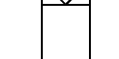


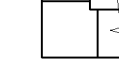






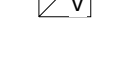
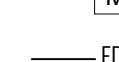
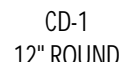
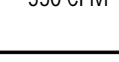



HVAC ABBREVIATIONS	SUPPLIER/VENDOR ABBREVIATIONS
ACC	AIR COOLED CONDENSING UNIT (HVAC)
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CU	CONDENSING UNIT (COOLER)
EF	EXHAUST FAN
ER	EXHAUST REGISTER
(E)/EXTG	EXISTING
HD	HOOD
MAU	MAKEUP AIR UNIT
OB	BLADE DAMPER
RG	RETURN GRILL
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KE	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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 12-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
	12" ROUND 550 CFM AIRFLOW

HVAC GENERAL NOTES

- GENERAL NOTES APPLY TO HVAC SHEETS.
- 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.
- CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- 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.
- 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.
- DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- 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.
- REPLACE AIR FILTERS WITH NEW, CLEAN, MERV 7 AIR FILTERS AT TURNOVER.
- 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.
- PROVIDE LABELING CALLED FOR IN THE HVAC PLANS USING ENGRAVED PHENOLIC UNITS.
- 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.

HVAC SPECIFICATIONS

SECTION 15080 - MECHANICAL INSULATION

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: None.
- 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

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

PART 3 - EXECUTION

3.1 INSTALLATION

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

END OF SECTION 15080

SECTION 15732 - SELF-CONTAINED AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: Product Data and Shop Drawings.
- Comply with ASHRAE 15.
- EER: Equal to or greater than prescribed by 2020 NYC Energy Conservation Code
- 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

- Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 - Refer to Self-Contained Unit Schedule on drawing M-600 for capacities, and manufacturers.
 - Evaporator Fans: Belt or direct driven, forward curved centrifugal.
 - Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 - Condenser Fans: Belt drive, forward curved.
 - Refrigerant Coils: Aluminum fins and copper coil.
 - Compressors: Serviceable, heat pump duty, with safety controls, hot gas bypass, and timed off controls.
 - Condensate Pump: Factory provided, field installed per schedule Economizer controls (Comparative Enthalpy, 100% capacity).
 - Low ambient controls.
 - Smoke Detectors: Photoelectric - In supply and/or return as called for on the schedule on M-600.
 - Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.
 - Mounting brackets.
 - Control Wiring from T-stat to packaged unit: Shall be 18ga / 7 conductor, rated for plenum applications.
 - 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

- Install units level and plumb and firmly anchored.
- Connect units to wiring systems and to ground

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- Submittals: Product Data for fire and smoke dampers.
- 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.
- Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft.
- 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.
- Comply with UL 181 and UL 181A for ducts and closures.
- Testing, Adjusting, and Balancing Agency Qualifications: GAABC certified.

PART 2 - PRODUCTS

2.1 DUCTS

- Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
 - Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
- 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.
- Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- Duct Liner: ASTM C 1071, Type I, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value: 6.3.
 - Adhesive: ASTM C 916, Type I.
 - Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- Joint and Seam Tape: Comply with UL 181A.
- Joint and Seam Sealant: Comply with UL 181A.
- 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

- 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.
- Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- 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

- Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- Avoid passing through electrical equipment spaces and enclosures.
- Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- Install liner on all supply and return duct.
- Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- Install fusible links in fire dampers.
- Provide saddle taps at tees for exposed ductwork.
- TESTING, ADJUSTING, AND BALANCING
 - 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.
 - The general contractor is to have trained staffed available during the balancing to correct issues noted by the balance agent.
 - 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%.
 - 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

- Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- Diffusers:
 - Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 - Manufacturer: As scheduled (NO SUBSTITUTIONS)
 - Material: As scheduled.
 - Finish: As scheduled.
 - Mounting: As scheduled.
- Wall and Ceiling Registers:
 - Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 - Manufacturer: As scheduled (NO SUBSTITUTIONS)
 - Material: As scheduled.
 - Finish: As Scheduled.
 - Mounting: Countersunk screw.
- Wall and Ceiling Grilles:
 - Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 - Manufacturer: As scheduled (NO SUBSTITUTIONS)
 - Material: As scheduled.
 - Finish: As Scheduled.
 - Mounting: Countersunk screw or lay in depending location.

PART 3 - EXECUTION

3.1 INSTALLATION

- Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- 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

- Summary: Electric/electronic control sequences for HVAC systems and equipment.
- 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.
- 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.
- Operation Sequence:
 - Unoccupied Cycle: During unoccupied hours, as set by the Energy Management System, the outside air dampers for the HVAC unit close, teh return dampers open fully, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the HVAC unit supply fan energizes and the duct heater energizes until the setpoints reached. Upon a call for cooling, teh supply fan and condensing unit energize in cooling mode until the setpoint is reached.
 - Occupied Cycle: During occupied hours, as set by the Energy Management System, the outside air andreturn dampers open to a minimum set point. The supply and exhaust fans run continuously. Upon a call for heating, the supply fan and electric heating energizes until the setpoint is reached. Upon a call for cooling, the condensing unit energizes.
 - Economizer: When outdoor conditions are suitable, the outdoor air damper opens fully, the return damper closes, and the system cools the space with 100% outdoor air.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 INSTALLATION

- 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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ISSUE FOR CONSTRUCTION
09/26/2022

REV.	DATE	DESCRIPTION
	07/01/22	LLD REVIEW SET
	07/01/22	PERMIT SET
	07/01/22	BID SET
	09/26/2022	CONSTRUCTION SET

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:
22012

SHEET TITLE:

MECHANICAL
SPECIFICATIONS,
SYMBOLS, & GENERAL
INFORMATION

SHEET NUMBER:

M-010.00

1 OF 18

DOB NOW Filing #: 800764587-11

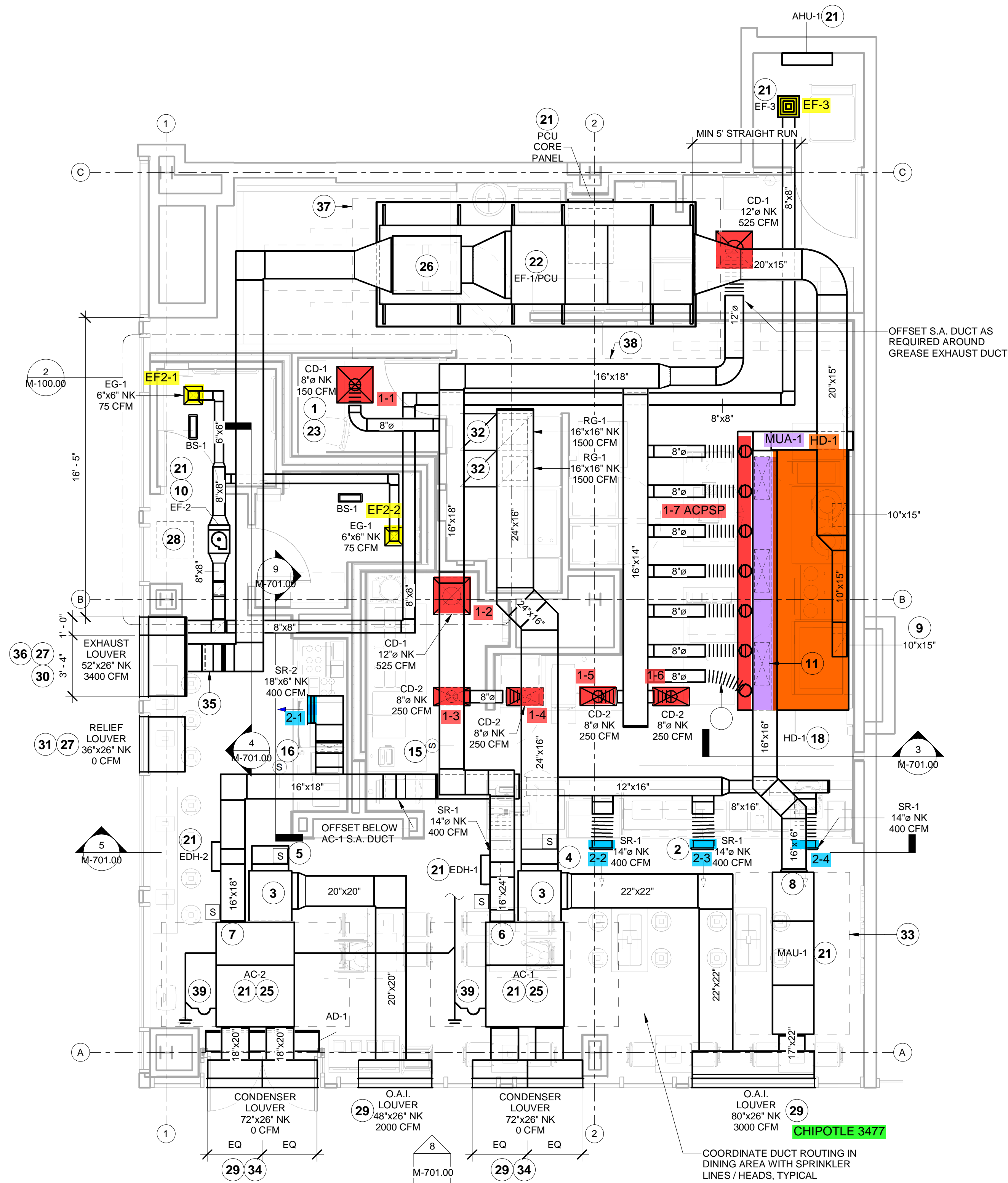
KEYNOTES FOR THIS SHEET 1, 2 ETC.

- 1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION, TYPICAL.
- 2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK, TYPICAL.
- 3 MANUFACTURER PROVIDED PRE-FABRICATED MIXING BOX.
- 4 24/16 DUCT TO TRANSITION TO AC-1 RETURN CONNECTION ON PRE-FABRICATED MIXING BOX. AC-1 SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM PRIOR TO ANY MIXING OF AIR. INTERLOCK SMOKE DETECTOR TO AC-1 OPERATION.
- 5 24/24 OPEN-ENDED DUCT WITH 80% FREE AREA MESH SCREEN TO TRANSITION TO AC-2 RETURN CONNECTION ON PRE-FABRICATED MIXING BOX. AC-2 SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM PRIOR TO ANY MIXING OF AIR. INTERLOCK SMOKE DETECTOR TO AC-2 OPERATION.
- 6 16/24 DUCT TO TRANSITION TO AC-1 SUPPLY CONNECTION. AC-1 SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM PRIOR TO ELECTRIC DUCT HEATER. INTERLOCK SMOKE DETECTOR TO AC-1 OPERATION.
- 7 16/18 DUCT TO TRANSITION TO AC-2 SUPPLY CONNECTION. AC-2 SHALL HAVE A DUCT-MOUNTED SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM PRIOR TO ELECTRIC DUCT HEATER. INTERLOCK SMOKE DETECTOR TO AC-2 OPERATION.
- 8 16/16 DUCT TO TRANSITION TO MAU-1 SUPPLY CONNECTION.
- 9 10/15 DUCTS UP FROM HOOD TO 20/15 DUCT TO EF-1/PCU INLET, 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. MAINTAIN MINIMUM 5'-0" STRAIGHT RUN OF DUCT AT PCU INLET.
- 10 8/8 DUCT TO TRANSITION TO EF-2 INLET. 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 AC-1 AND AC-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 AC-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. COORDINATE LOCATION WITH PANELS AND A/V DEVICES IN AREA.
- 14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR AC-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 AC-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 AC-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". COORDINATE LOCATION WITH PANELS AND A/V DEVICES IN AREA.
- 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 ABOVE CEILING 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. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET 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 TRASH ROOM SPLIT SYSTEM ABOVE CEILING AS DETAILED IN THE ARCHITECTURAL & 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. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET TO WITHIN 3'-0" OF THE REMOTE CONDENSER.
- 21 INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 22 INSTALL EXHAUST FAN EF-1/PCU PER CAPTIVE AIRE DRAWINGS (M-400 SERIES IN THIS SET) AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 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. PLAN SHOWS (2) DEVICES STACKED ON TOP OF (2) DEVICES FOR A TOTAL OF 4. COORDINATE ARRANGEMENT WITH OTHER SYSTEMS IN AREA.

KEYNOTES FOR THIS SHEET 1, 2 ETC.

- 25 INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN AC UNIT OR AC UNIT DUCTWORK PER CHIPOTLE'S INSTALLATION INSTRUCTIONS FOR NON-RTU APPLICATIONS, OBTAINED FROM CHIPOTLE CM. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ANY AC UNIT ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- 26 DRAIN PORT ON BOTTOM OF EF-1 TO BE PIPED TO GREASE MAIN. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION.
- 27 10'-0" MIN. CLEARANCE FROM OUTER EDGE OF EXHAUST/RELIEF LOUVER TO FRESH AIR INTAKES, TYPICAL.
- 28 2'X2' ACCESS PANEL IN CEILING. COORDINATE LOCATION WITH ARCHITECT AND EF-2 INSTALLATION TO MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AND ACCESS ETO EF-2.
- 29 PROVIDE LOUVER, SIZED AS SHOWN, AND 24" DEEP INSULATED, GALVANIZED STEEL, PLENUM BOX ON REAR OF LOUVER. VERIFY EXISTING LOUVER BAND HEIGHT IN FIELD.
- 30 PROVIDE LOUVER, SIZED AS SHOWN, AND 24" DEEP INSULATED, GALVANIZED STEEL, PLENUM BOX ON REAR OF LOUVER. VERIFY EXISTING LOUVER BAND HEIGHT IN FIELD. PROVIDE BACKDRAFT DAMPER AT EACH NON-GREASE DUCT CONNECTION TO PLENUM BOX.
- 31 PROVIDE LOUVER, SIZED AS SHOWN, AND 24" DEEP INSULATED, GALVANIZED STEEL, PLENUM BOX ON REAR OF LOUVER. VERIFY EXISTING LOUVER BAND HEIGHT IN FIELD. PLENUM BOX TO BE OPEN ENDED INSIDE SPACE WITH RELIEF DAMPER IN DUCTWORK.
- 32 PROVIDE NON-DUCTED RG-1, 22/22 NECK RETURN AIR GRILLE TO ALLOW FOR RETURN AIR FROM CEILING SPACE FOR REMOTE CU-1 & ACC-1 ABOVE CEILING.
- 33 DASHED AREAS AROUND EQUIPMENT DESIGNATE REQUIRED CLEARANCES AND ACCESS POINTS. VERIFY REQUIRED CLEARANCES AND ACCESS POINTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, TYPICAL.
- 34 DIVIDE CONDENSER SECTION LOUVER / PLENUM BOX AS SHOWN, OR PER MANUFACTURER'S INSTALLATION REQUIREMENTS TO ENSURE PROPER HEAT REJECTION.
- 35 OFFSET AS REQUIRED TO MATCH (E) LOUVERBAND HEIGHT.
- 36 DIVIDE EXHAUST LOUVER / PLENUM BOX AS SHOWN, TO ENSURE EF-1/PCU AIR STREAM IS SEPARATE FROM EF-2 AND EF-3.
- 37 18" MIN COMBUSTIBLES CLEARANCE, TYPICAL (3)SIDES, TOP, AND BOTTOM.
- 38 36" MIN. PCU FILTER ACCESS CLEARANCE (THIS SIDE ONLY).
- 39 RUN 1-1/4" INSULATED COPPER CONDENSATE PIPING FROM AC UNIT CONDENSATE CONNECTION TO 6" ABOVE FLOOR DRAIN LOCATED IN TRASH ROOM. PROVIDE CONDENSATE PUMP ABOVE OFFICE CEILING IF REQUIRED DUE TO PIPE PITCH.

② HVAC OFFICE & RESTROOM AREA PLAN
1/4" = 1'-0"



① HVAC PLAN
1/4" = 1'-0"

EQUIPMENT TO BE LOCATED ABOVE CEILING. LOCATED TO MAINTAIN MANUFACTURER REQUIRED CLEARANCES AND INSTALLATION RECOMMENDATIONS. ACCESS TO BE VIA DROP CEILING. REMOVABLE LAY-IN TILES. OFFSET DUCTWORK, CONDUIT, ETC. AS REQUIRED TO MAINTAIN REQUIRED CLEARANCE & ACCESS.

EQUIPMENT TO BE LOCATED ABOVE CEILING. LOCATED TO MAINTAIN MANUFACTURER REQUIRED CLEARANCES AND INSTALLATION RECOMMENDATIONS. ACCESS TO BE VIA CEILING ACCESS PANEL(S). COORDINATE ACCESS PANEL LOCATION AND QUANTITY WITH ARCHITECT IN FIELD UPON EQUIPMENT ROUGH-IN. OFFSET DUCTWORK, CONDUIT, ETC. AS REQUIRED TO MAINTAIN REQUIRED CLEARANCE & ACCESS.

Consultant:



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BROOKLYN, NY 11213

ISSUE FOR CONSTRUCTION
09/26/2022

REV. DATE	DESCRIPTION
07/01/22	LLD REVIEW SET
07/01/22	PERMIT SET
07/01/22	BID SET
09/26/2022	CONSTRUCTION SET

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:

22012

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-100.00

2 OF 18

DOB NOW Filing #: 800764587-11

2020-DB#3/P#1-2

**HOOD SHOP DRAWING PRODUCED BY
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22012

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CAPTIVEAIRE

DRAWINGS

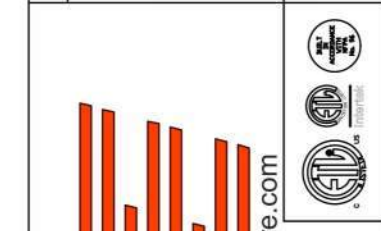
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3 OF 18

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CAPTIVEAIRE
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CHIPOTLE UTICA AVENUE #4501
BROOKLYN, NY, 11213

DATE: 5/25/2022
DWG.#:
5424233
DRAWN BY: JMB-40
SCALE:
3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
1

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.

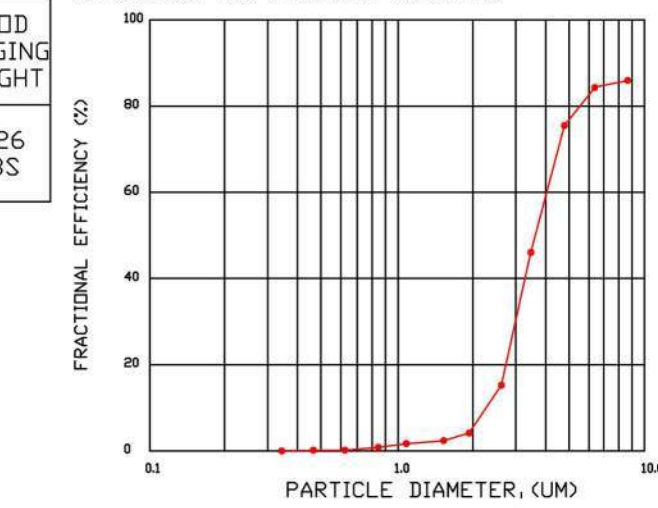
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

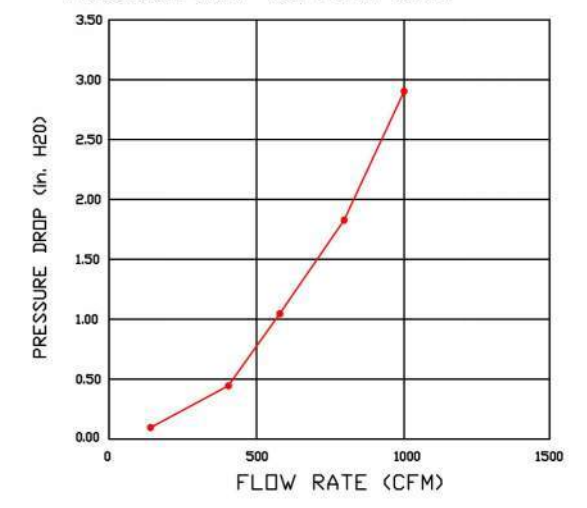
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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



PRESSURE DROP VS. FLOW RATE

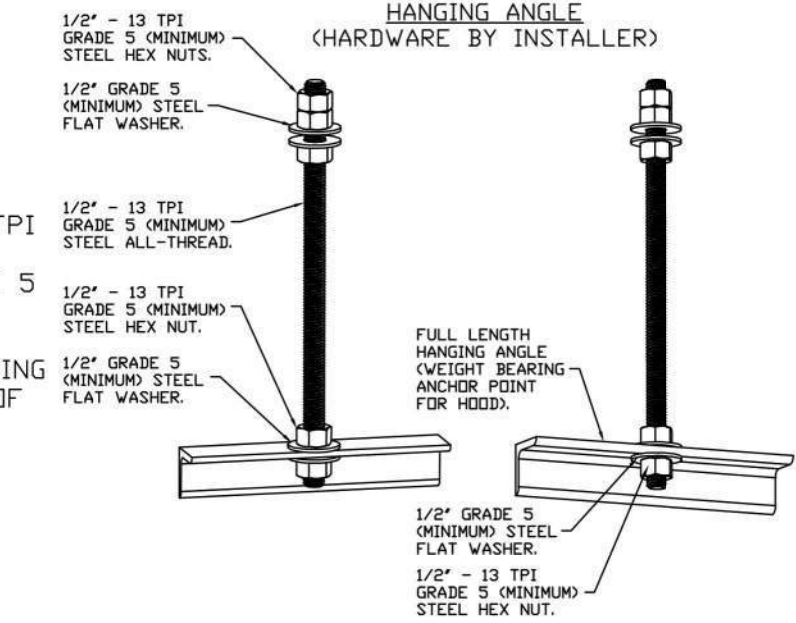


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649



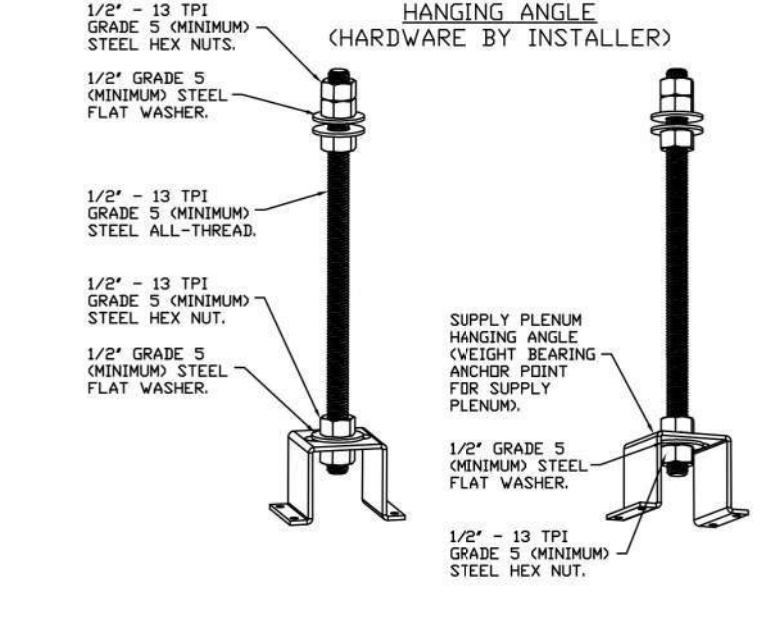
ASSEMBLY INSTRUCTIONS



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



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.

FOR QUESTIONS, CALL THE
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PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5424233

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA 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	-0.641"	1950	798	430 SS WHERE EXPOSED	ALDNE	ALDNE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)			WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	FIRE SYSTEM	SIZE				ELECTRICAL MODEL #	SWITCHES QUANTITY			
1		CAPTRATE SOLID FILTER	10	20"	16"	85% SEC FILTER SPEC	10	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-3111010MA	1 LIGHT 1 FAN	YES	1526 LBS	

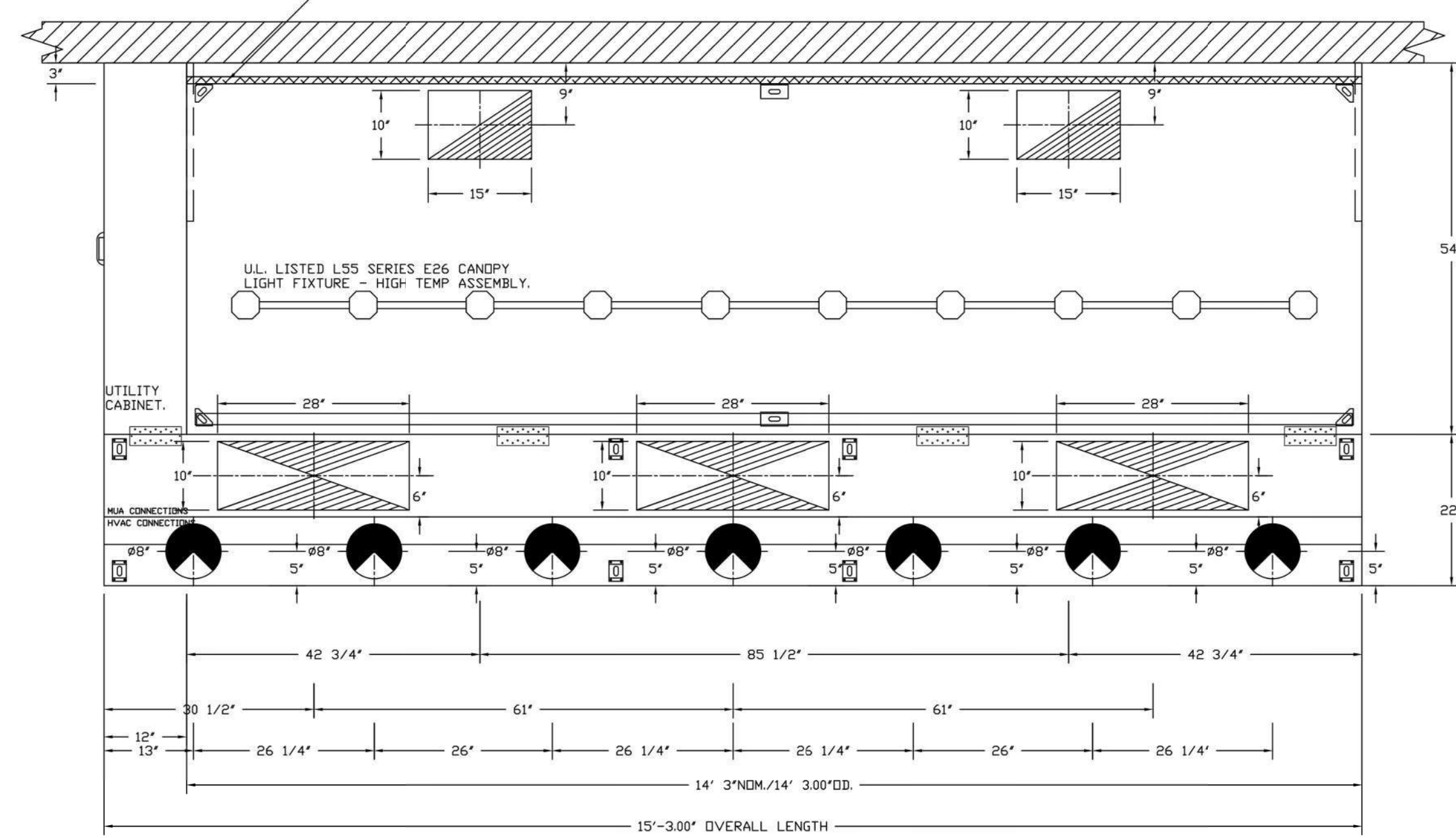
HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 6.00' HIGH FRONT, LEFT, RIGHT. RIGHT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS. LEFT QUARTER END PANEL 23' TOP WIDTH, 0' BOTTOM WIDTH, 23' HIGH 430 SS. INSULATION FOR TOP OF HOOD. INSULATION FOR BACK OF HOOD. NYC CONSTRUCTION. RISER SENSOR INSTALL 6IN PLEN. FULL DIMENSION HANGING BRACKET - FRONT.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG	SP
1		Front	183'	22'	6'	MUA	10"	28"	650 0.166"
						MUA	10"	28"	650 0.166"
						MUA	10"	28"	650 0.166"
						AC	8"	114	0.041"
						AC	8"	114	0.041"
						AC	8"	114	0.041"
						AC	8"	114	0.041"
						AC	8"	114	0.041"
						AC	8"	114	0.041"

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




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

ACSP SHIPS LOOSE FOR FIELD INSTALLATION

HOOD SHOP DRAWING PRODUCED BY
MANUFACTURER - FOR REFERENCE ONLY

REVISIONS	
DESCRIPTION	DATE



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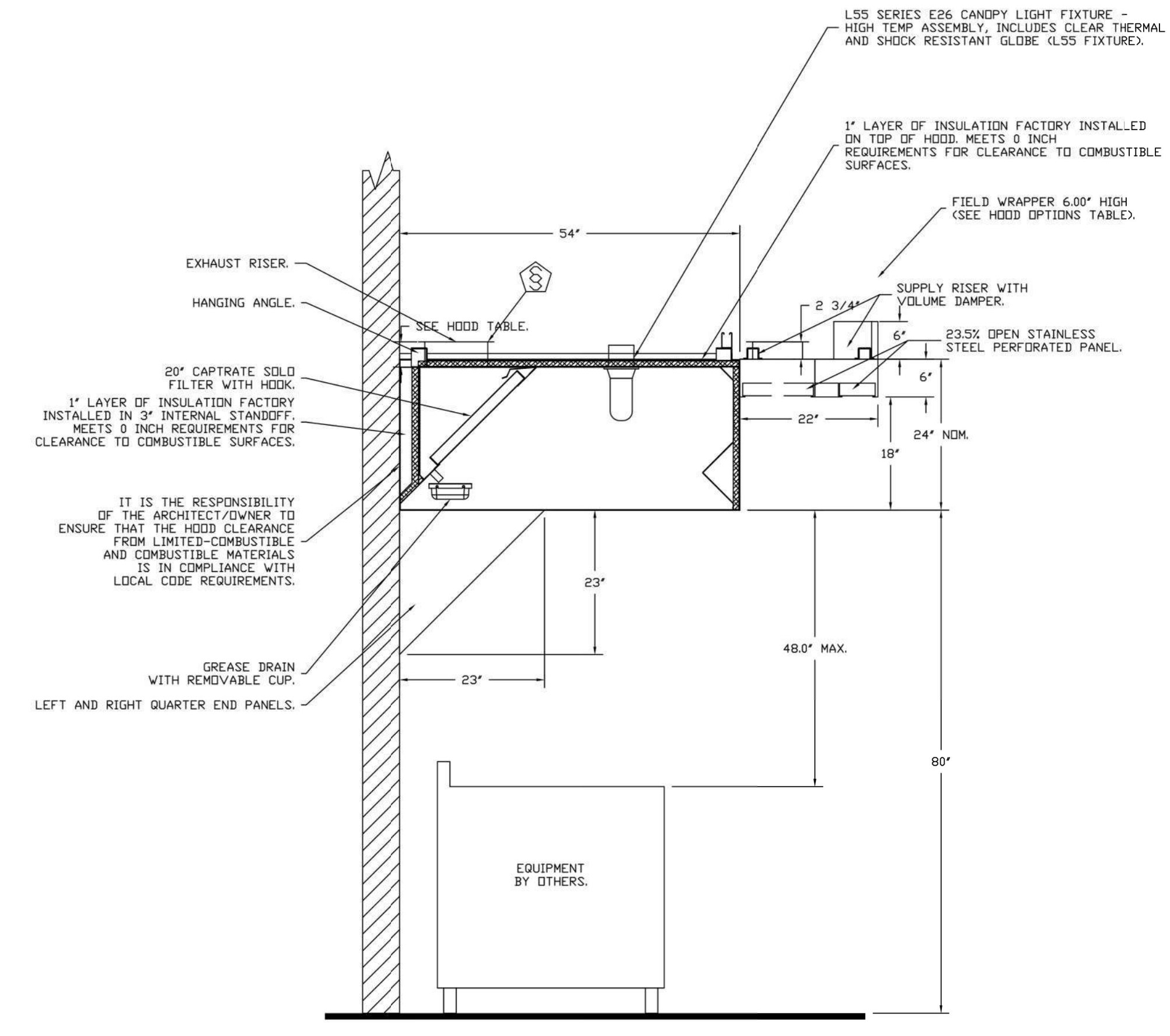
CHIPOTLE UTICA AVENUE #4501
BROOKLYN, NY, 11213

DATE: 5/25/2022
DWG.#: 5424233
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
2

FIRE SYSTEM INFORMATION - JOB#5424233

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	FIRE CABINET LEFT	LEFT, HOOD 1



SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1

Consultant:
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Consulting Engineers, PC
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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:
22012

SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:

M-402.00
4 OF 18

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2020-DB#3/P#1-2

**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. Approved for use in New York City per the Fire Department of New York Certificate of Approval #5804.
- D. The hood shall be ETL Listed as:
 1. "Exhaust Hood Without Exhaust Damper."
 2. ETL Sanitation Listed and built in accordance with NFPA 96.
 3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

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

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and

exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

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

2.2 CONSTRUCTION

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

2.3 LIGHTING

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

2.4 FILTERS

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

2.5 OPTIONS

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

2.6 ACCESSORIES

- A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:
 1. Quarter End Panel
- B. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
 1. Wrapper
- C. Miscellaneous option(s) selected:
 1. Full Dimension Hanging Bracket -Unistrut added to allow for various hood mounting locations.
 2. Insulation for Top of Hood -Fully insulated top of hood.
 3. Insulation for Back of Hood -Backside of hood is fully insulated.
 4. NYC Construction -Hood construction will follow NYC construction requirements. All filters stamped with NYC certificate of approval.
 5. Riser Sensor Install -Sensor set-up for 6"plenum.

PART 3 - EXECUTION

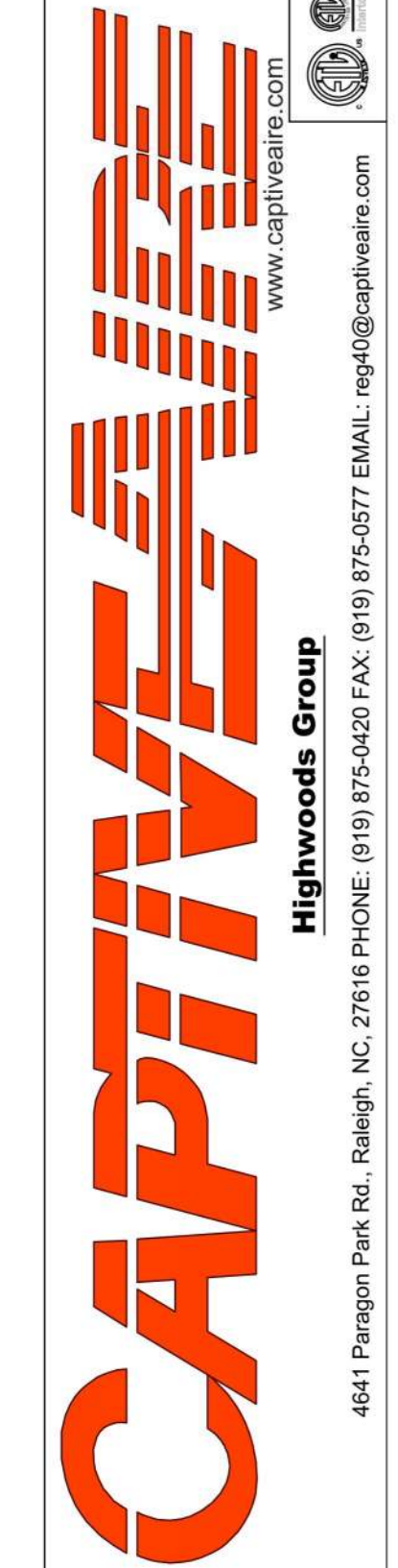
3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2 INSTALLATION

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

REVISIONS	
DESCRIPTION	DATE



CHIPOTLE UTICA AVENUE #4501
BROOKLYN, NY, 11213

DATE: 5/25/2022
DWG.#: 5424233
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
3

Consultant:



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Moorestown, NJ 08057
(856) 778-5400

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STORE NO.: 3477
UTICA AVENUE
250 UTICA AVENUE,
BROOKLYN, NY 11213

ISSUE FOR CONSTRUCTION
09/26/2022

REV. DATE	DESCRIPTION
07/01/22	LLD REVIEW SET
07/01/22	PERMIT SET
07/01/22	BID SET
09/26/2022	CONSTRUCTION SET

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:

22012

SHEET TITLE:

**CAPTIVEAIRE
DRAWINGS**

SHEET NUMBER:

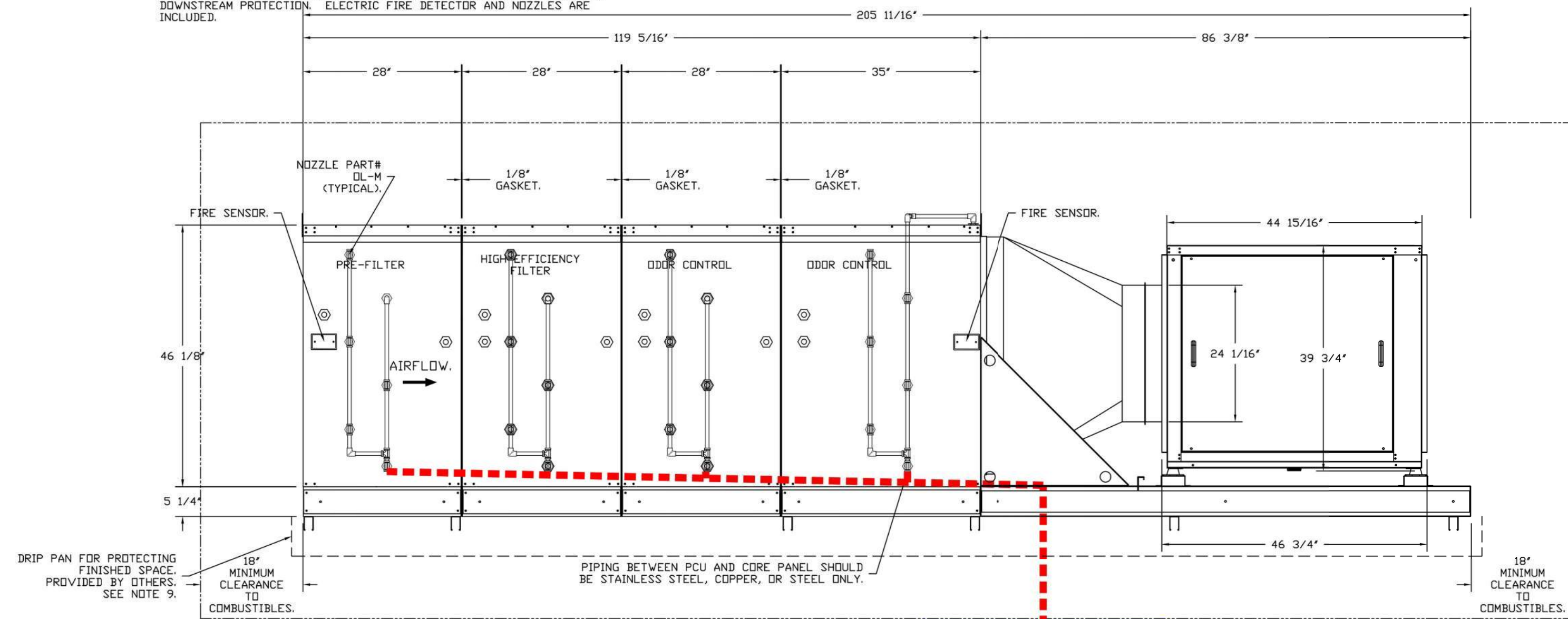
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5 OF 18

DOB NOW Filing #: 800764587-11

HOOD SHOP DRAWING PRODUCED BY
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POLLUTION CONTROL UNIT FIRE SYSTEM
FAN #1 SIF24DD-HESS-UL762 - EXHAUST FAN (PCU) - POLLUTION CONTROL UNIT WITH CORE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE-FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL ODOR CONTROL MODULES PREPIPED WITH 28 DL-M NOZZLES AND INCLUDES DOWNSTREAM PROTECTION, ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



PCU CORE WATER FLOW SUMMARY			
	PIPE DIAMETER	MINIMUM FLOW RATE (GPM)	PRESSURE DROP (PSI)
Field Piping Wall Mount Panel to PCU 1	1.5	38	2.85
PCU Internal Piping	0.375	38	20

TOTAL SYSTEM INLET REQUIREMENTS		
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)
TOTAL CORE INLET REQUIREMENTS	38	22.85

* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 22.85 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 125 PSI.

CORE PRESSURE LOSS:
WALL MOUNT PANEL TO PCU 1.
15' FIELD PIPING.
2.85 PSI LOSS.
38 GPM.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
Highwoods Group
www.captiveaire.com
4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: req40@captiveaire.com

CHIPOTLE UTICA AVENUE #4501
BROOKLYN, NY, 11213

DATE: 5/25/2022
DWG.#: 5424233
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

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Consulting Engineers, PC
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PROJECT NUMBER:
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SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:

M-404.00
6 OF 18

DOB NOW Filing #: 800764587-11

2020-DB#3/P#1-2

HOOD SHOP DRAWING PRODUCED BY
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SHEET NO. 5

EXHAUST FAN INFORMATION - JOB#5424233

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	WEIGHT (LBS)	SDNES
1	PCU	1	SIF24DD	CAPTIVEAIRE	3200	1.500	1385	TEFC, PREMIUM	7.500	3.6590	3	208	20.5	2248	30
2	EF-1	1	CFA 250CA	CAPTIVEAIRE	150	0.600	704	GENERAL PURPOSE	0.222	0.1350	1	115	2.1	29	N/A
3	EF-3	1	CFA 200CA	CAPTIVEAIRE	50	0.500	532	GENERAL PURPOSE	0.170	0.0630	1	115	1.8	25	N/A

MUA FAN INFORMATION - JOB#5424233

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
4	MAU-1	1	A1-E.362-15D	15MF-1-MDD	A1-E.362	800	1950	0.500	1919	DDP, PREMIUM	2.000	1.1790	3	208	6.1	7.7A	15A	538	18.9

ELECTRIC MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	BSGN KW'S	MAX KW'S	PHASE	VOLTS	AMPERAGE	TEMP RISE	OUTPUT BTUs
4	MAU-1	29	36	3	208	86.6	47 °F	122868

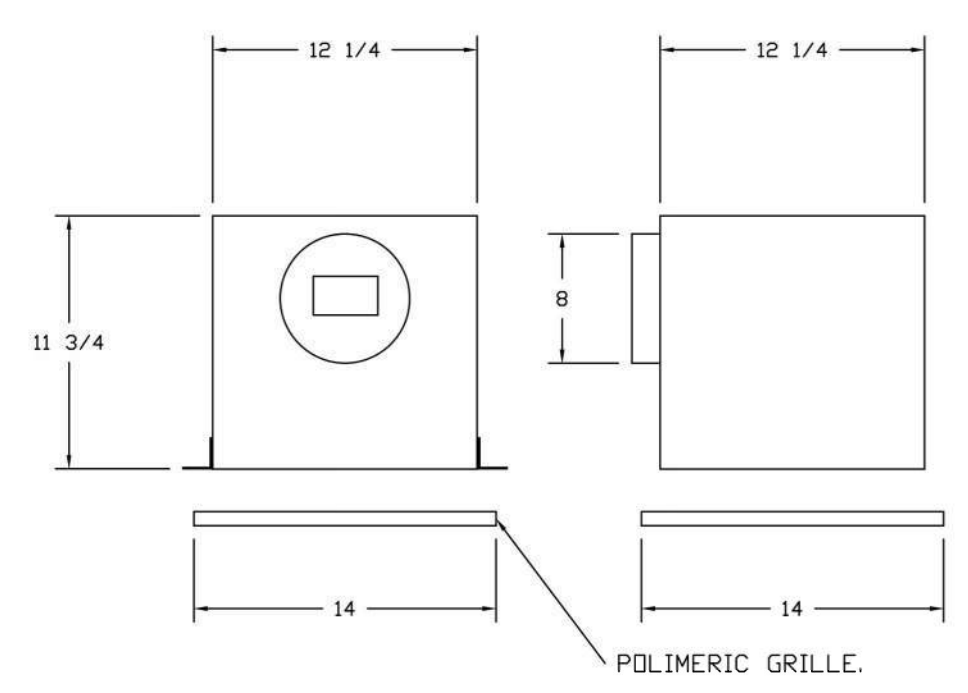
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PCU	1	SIF 24- SS LOW SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER
		1	SIF24 - INLET - STANDARD 24" DUCT CONNECTION
		1	PCU-SIZE 4 SIF-24 HESS
		1	OPPOSITE SIDE CONTROLS- SIF
		1	POLLUTION CONTROL UNIT WITH PREFILTER, HIGH EFFICIENCY, AND DUAL ODR CONTROL WITH INSTALLED ELECTRICAL DETECTION SYSTEM. SIZE 4
2	EF-1	1	2 YEAR PARTS WARRANTY
		1	981L IN LINE KIT
		1	STRAIGHT THROUGH DISCHARGE - ASSEMBLY - CFA INLINE
3	EF-3	1	CEILING VIBRATION HANGERS
		1	FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS
		1	2 YEAR PARTS WARRANTY
4	MAU-1	1	CEILING VIBRATION HANGERS
		1	FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS
		1	2 YEAR PARTS WARRANTY
		1	AC INTERLOCK RELAY - 24VAC COIL
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
1	INSULATION OPTION FOR V-BANK FILTER SECTION		
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 CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	PCU								
2	EF-1								
3	EF-3								
4	MAU-1				YES		YES		

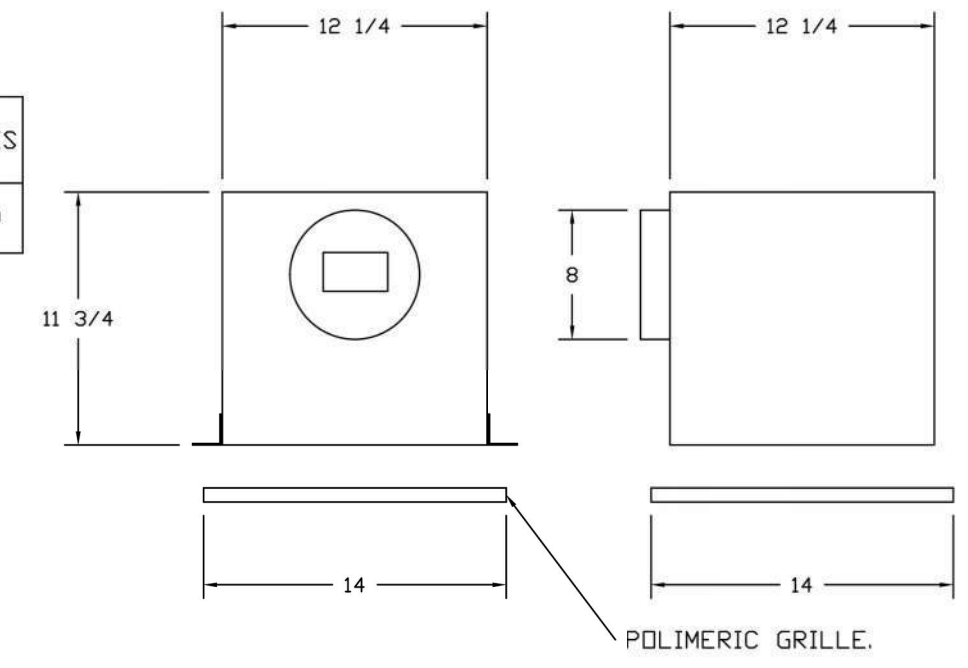
FAN #3 CFA 200CA - EXHAUST FAN (EF-3)



FEATURES:
- 1/2" ACOUSTIC HOUSING INSULATION.
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILD IN AUTOMATIC BACKDRAFT DAMPER.
- AMCA SOUND & AIR CERTIFIED.
- UL LISTED.
- CAN BE INSTALLED IN CEILING OR WALL.
- 8 POSITION MOUNTING BRACKETS.

OPTIONS
CEILING VIBRATION HANGERS.
FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS.
2 YEAR PARTS WARRANTY.

FAN #2 CFA 250CA - EXHAUST FAN (EF-1)



FEATURES:
- 1/2" ACOUSTIC HOUSING INSULATION.
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILD IN AUTOMATIC BACKDRAFT DAMPER.
- AMCA SOUND & AIR CERTIFIED.
- UL LISTED.
- CAN BE INSTALLED IN CEILING OR WALL.
- 8 POSITION MOUNTING BRACKETS.

OPTIONS
981L IN LINE KIT.
STRAIGHT THROUGH DISCHARGE - ASSEMBLY - CFA INLINE.
CEILING VIBRATION HANGERS.
FAN CONTROL - 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS.
2 YEAR PARTS WARRANTY.

2020-DB#3/P#1-2

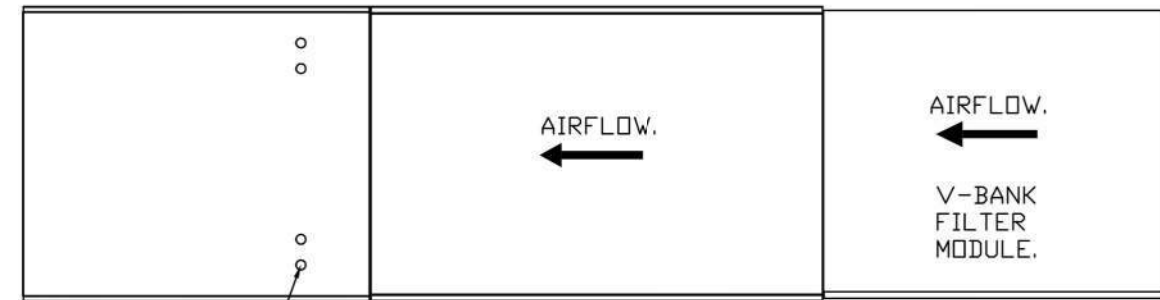
HOOD SHOP DRAWING PRODUCED BY
MANUFACTURER - FOR REFERENCE ONLY

- FAN #4 AI-E-362-15D - HEATER (MAU-1)
 1. ELECTRIC HEATED MAKE-UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN AND A 3 STAGES TOTAL, 1 MODULATING, 36KW 240 - 3 COIL.
 2. V-BANK EZ FILTERS - INDOOR.
 3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS, LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. MOTORIZED BACK DRAFT DAMPER 16" X 16" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
 6. "INSULATION" FOR V-BANK INTAKE OPTION.
 7. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREVIOUS 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.
 8. UNIT MOUNTED VFD FOR USE WITH ECPM03.
 9. 2 YEAR PARTS WARRANTY

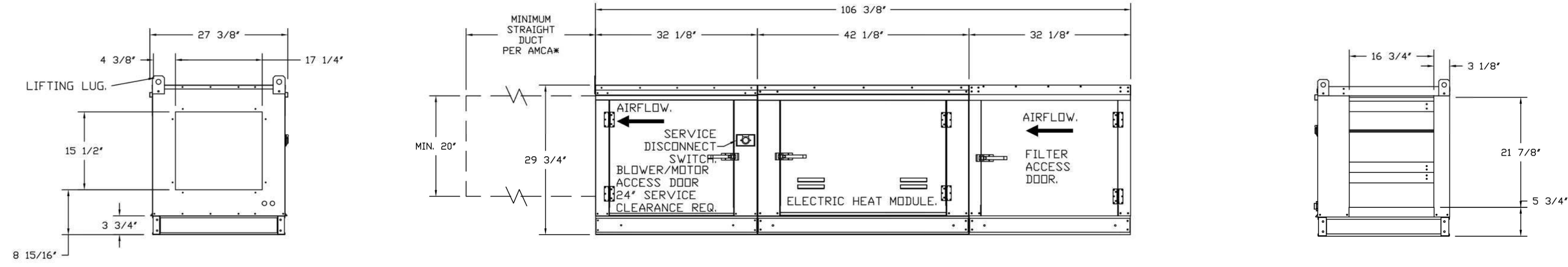
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SNACMA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

SUPPLY SIDE HEATER INFORMATION:

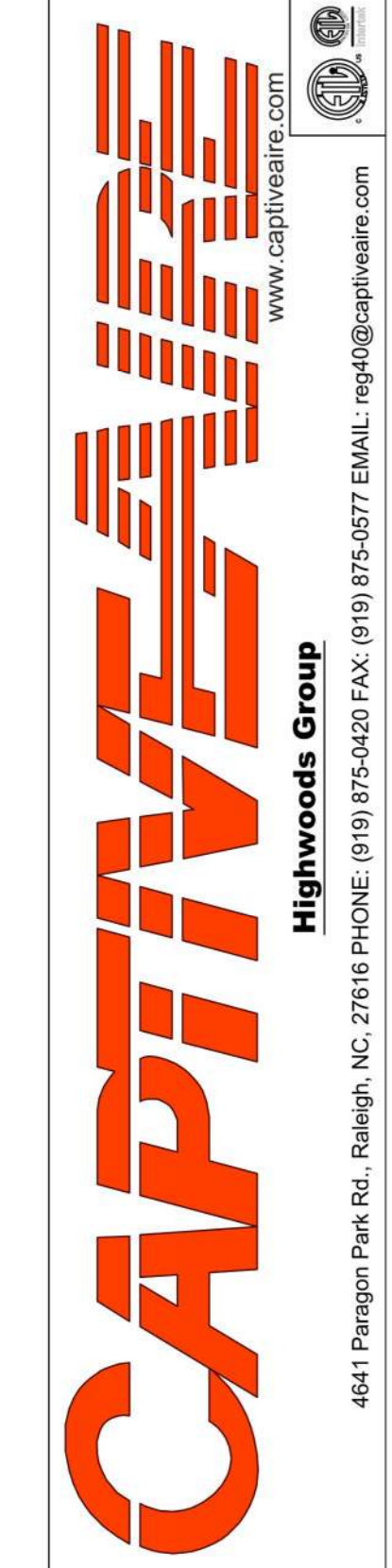
WINTER TEMPERATURE = 17°F. TEMP. RISE = 47°F.
 KWs CALCULATED OFF ACTUAL AIR DENSITY.
 KWs AT ALTITUDE OF 00 FT. = 29.
 KWs AT ALTITUDE OF 98 FT. = 29.



FLEX CONDUIT FOR FIELD WIRING.



REVISIONS	
DESCRIPTION	DATE



CHIPOTLE UTICA AVENUE #4501
 BROOKLYN, NY, 11213

DATE: 5/25/2022
 DWG.#: 5424233
 DRAWN BY: JMB-40
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 6

Consultant:

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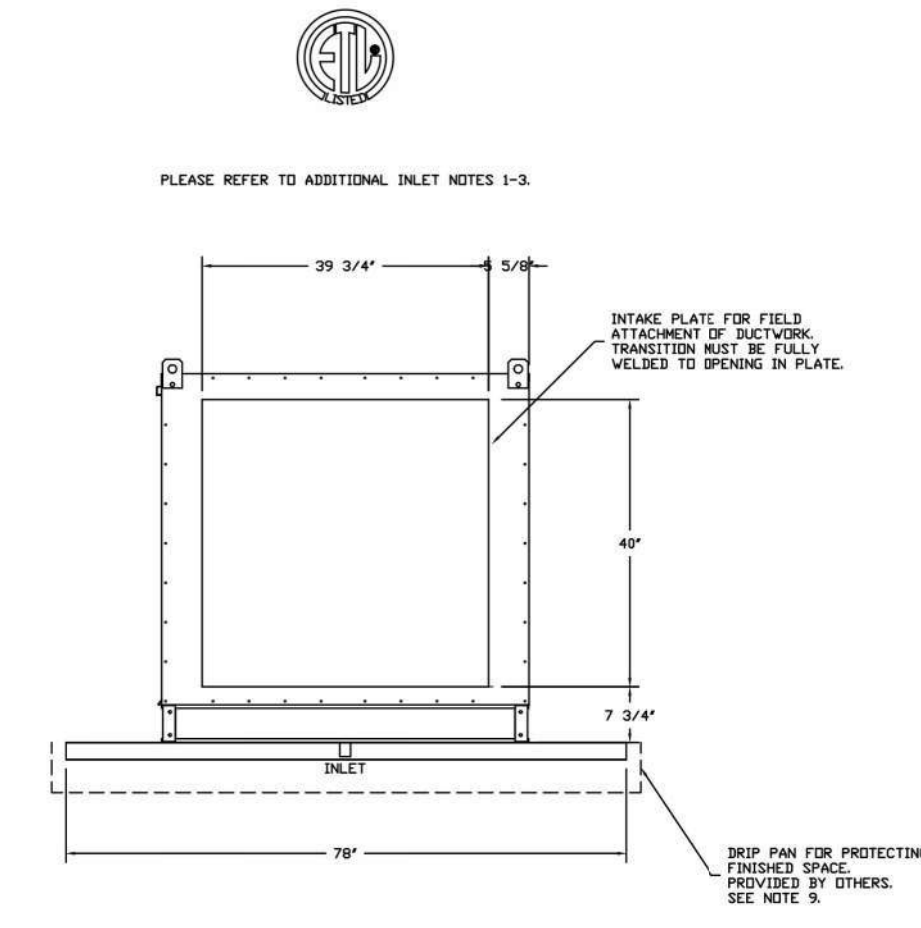
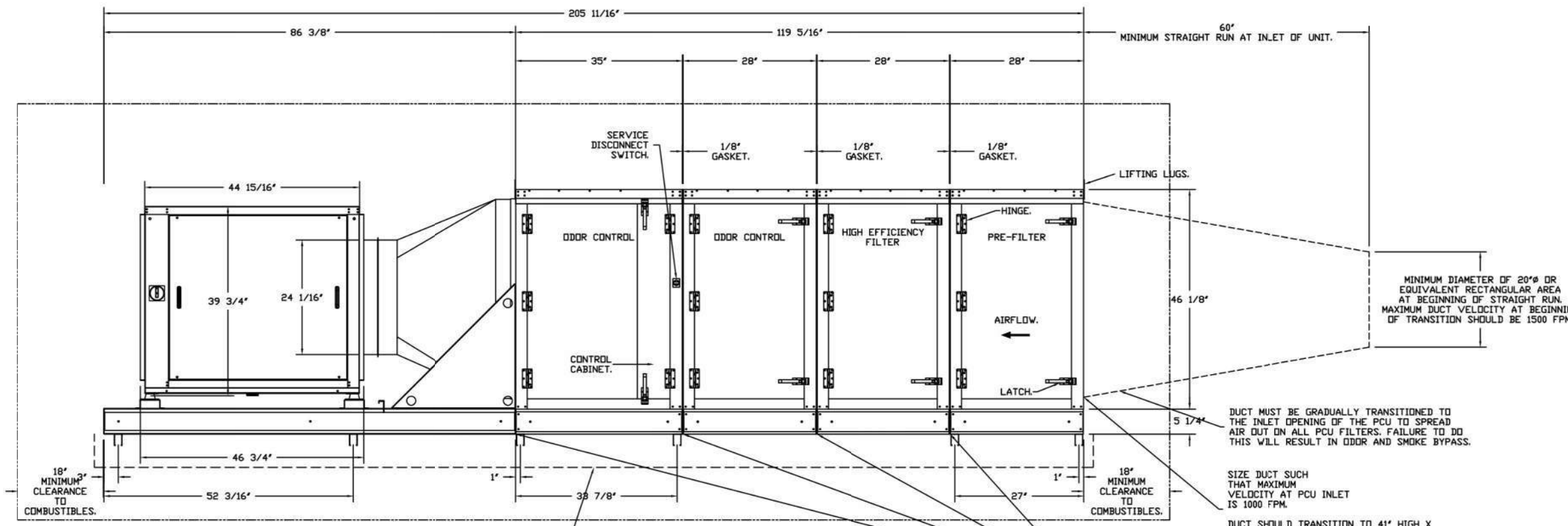
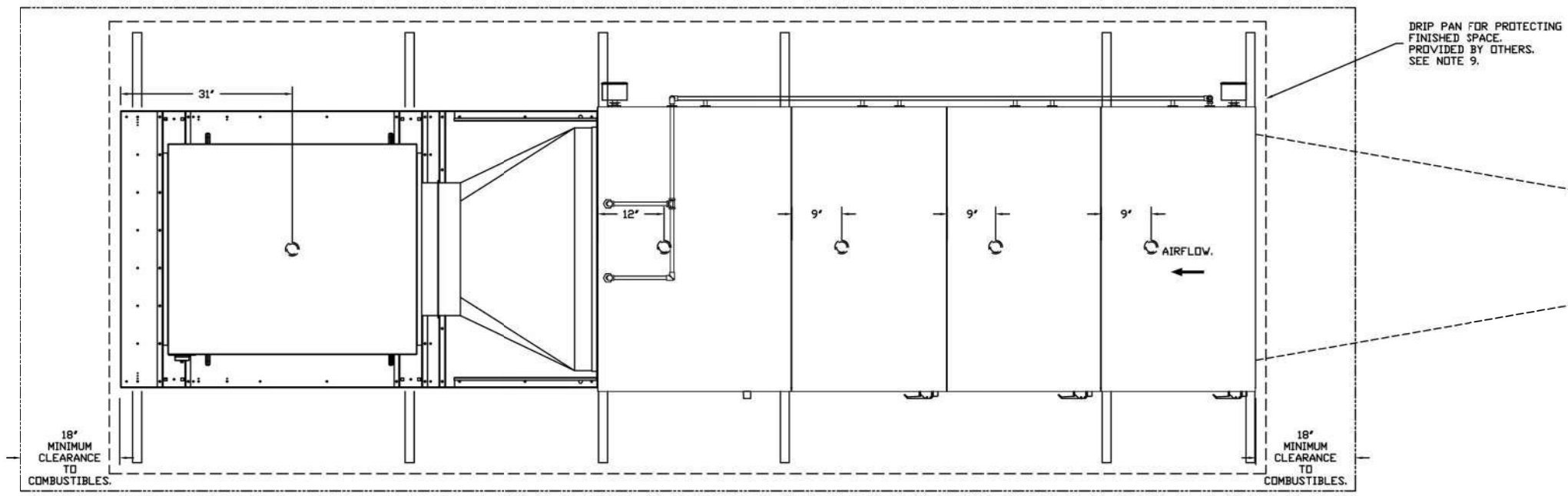
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HOOD SHOP DRAWING PRODUCED BY
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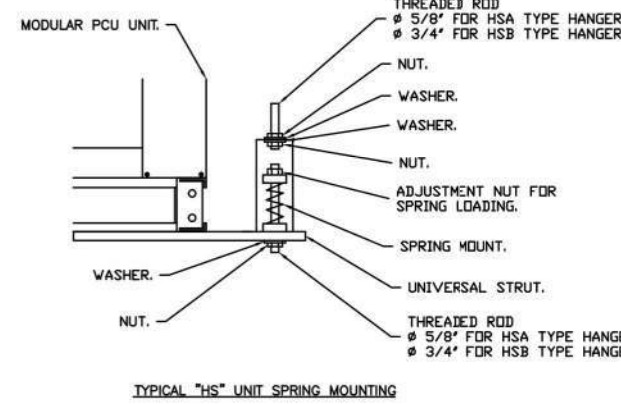
DESCRIPTION
FAN #1 SUPPLY-HISS-U-762 - EXHAUST FAN (PCU) - POLLUTION CONTROL UNIT WITH COKE PROTECTION FIRE SYSTEM INSTALLED. INCLUDES STEEL PRE-FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND DUAL DOOR CONTROL MODULES PROVIDED WITH IN-DOOR NOZZLES AND INCLUDES DOWNFLOW PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.



- NOTES:
- ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.
 - C/FUS UL710 LISTED FOR GREASE DUCT INSTALLATION.
 - ULTRA HATED DIRECT DRIVE SQUARE BLADE FAN WITH 24.75" HIGH EFFICIENCY HOLES FLOW WHEEL.
 - WHEN USED IN KITCHEN GREASE DUCT, UNIT MUST BE INSTALLED DOWNSTREAM OF A LISTED HOOD ASSEMBLY OF A UL710 LISTED HOOD ASSEMBLY OR A NFPA 96 COMPLIANT HOOD AS LONG AS IT IS INSTALLED WITH A FIRE SUPPRESSION SYSTEM THAT IS INTERLOCKED WITH THE NFPA 96 COMPLIANT HOOD FIRE SYSTEM.
 - CLEARANCE ON FILTER ACCESS SIDE OF THE PCU SHOULD BE A MINIMUM OF 36" FOR PROPER SERVICE OF THE UNIT. ALL OTHER SIZES SHOULD FOLLOW CLEARANCE TO COMBUSTIBLE GUIDELINES FOR CODE.
 - UNIT CONTAINS PRESSURE MONITORING SWITCH REFER TO ELECTRICAL SCHEMATIC OR OPERATION MANUAL FOR MORE INFORMATION.
 - 1/2" MPT BRAIN SUPPLIES IN EACH MODULE. BASIC CONNECT INDIVIDUAL DRAINING TO A COMMON 2 1/2" DRAIN AND ROUTE TO GREASE INTERCEPTOR.
 - FIRE SYSTEM TO BE INSTALLED INDOORS OR IN A WEATHERTIGHT ENCLOSURE. MONITORED BETWEEN 36" AND 120" F. THIS ENCLOSURE IS PROVIDED BY OTHERS.
 - WHEN THE PCU IS INSTALLED ABOVE OR NEAR A FINISHED SPACE, THE INSTALLING CONTRACTOR MUST PROTECT THE FINISHED SPACE TO PREVENT WATER DAMAGE IN THE EVENT OF A FIRE SYSTEM DISCHARGE OR WHEN REGULAR CLEANING IS PERFORMED ON THE UNIT.
 - POLLUTION CONTROL UNIT IS RATED FOR INDOOR USE WHEN INSTALLED IN ACCORDANCE WITH INC 504.53(A), INCLUDING THE USE OF A FIRE RATED ENCLOSURE AS APPLICABLE.

- PCU OPTIONS:
- INDOOR HANGING CRABLE FOR SIZE 4 PCU WITH 3 OR 4 MODULES AND USIB BLOWER. 6 PIECES OF UNI-STRUT, 78 INCHES LONG EACH 2 HS430 HANGING ISOLATORS PER UNI-STRUT INCLUDED. FOR USE WITH USIB BLOWERS.
 - BLOWER WITH 1/2" HOODS. BACK PLATE WITH LATCH, AIRLINE, SOON CONNECTOR FOR HOODS. CONSIST FITTINGS, FUSION, HOODS.
 - UNIVERSAL, BALL VALVE SUPERVISION SWITCH KIT FOR 1/2" PIPE. INCLUDES BALL VALVE, VALVE, CUSTOM DUCT FITMENT OR FIELD FITMENT.
 - INLET PLATE FOR SIZE 4 PCU WITH 36" X 48" HOLES FOR DUCT CONNECTIONS FOR USE WITH CUSTOM DUCT FITMENT OR FIELD FITMENT.
 - POLLUTION CONTROL UNIT SHIPPED AS INDIVIDUAL MODULES. CONNECTION HARDWARE INCLUDED.

PCU FILTER SPECIFICATIONS				
DESIGN CFM = 3800				
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE (SP/CLEAN) (Sq. Ft.)
1	CAPTRATE SGLD	MERV 8	10	20K25X2 0.198
2	HIGH EFFICIENCY	MERV 15	10	20K25X4 0.331
3	DC CAUSTIC IMPREGNATED	N/A	10	20K25X4 0.484
4	DC 100% CARBON	N/A	10	20K25X4 0.484
				1137



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

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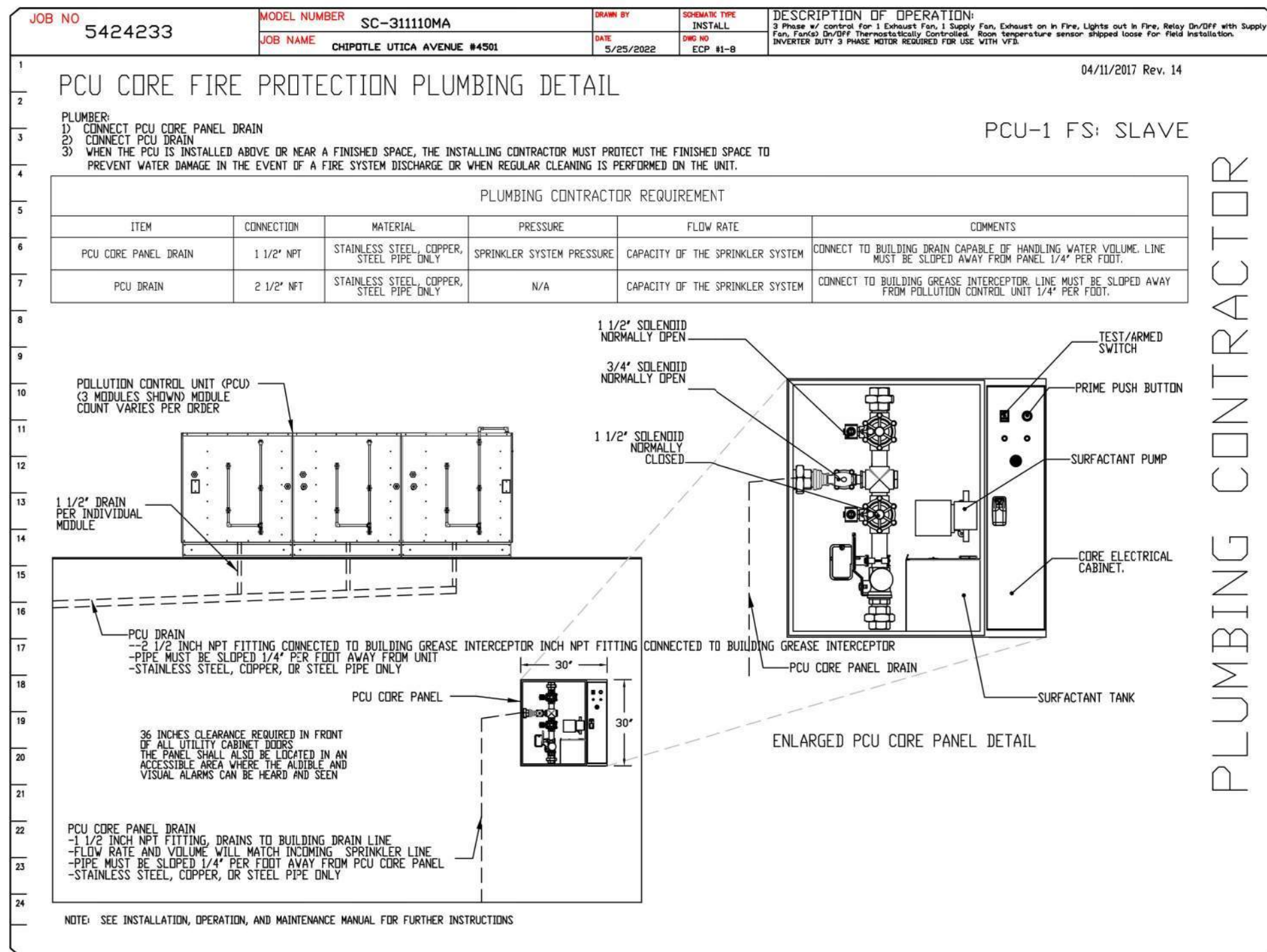
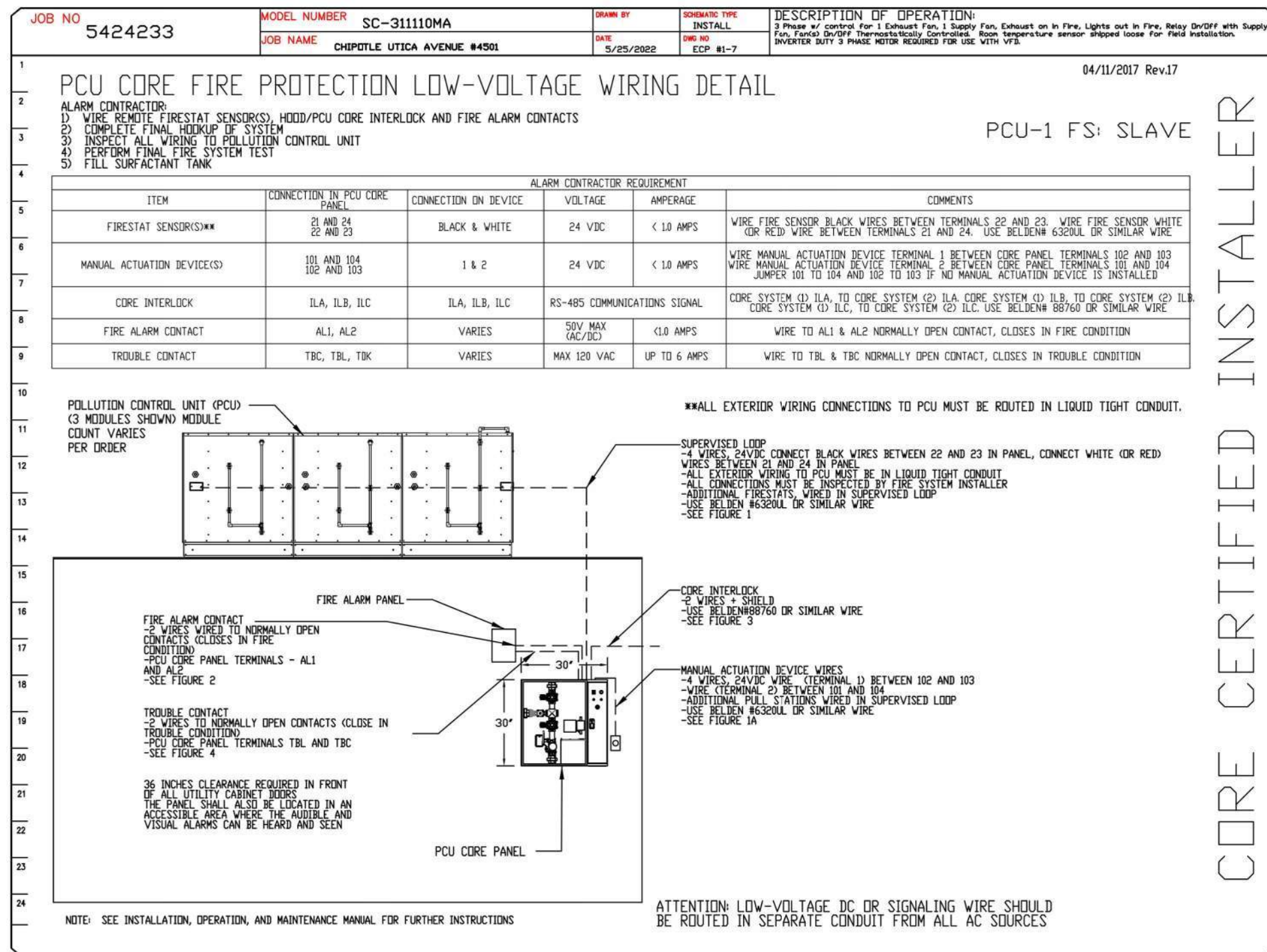
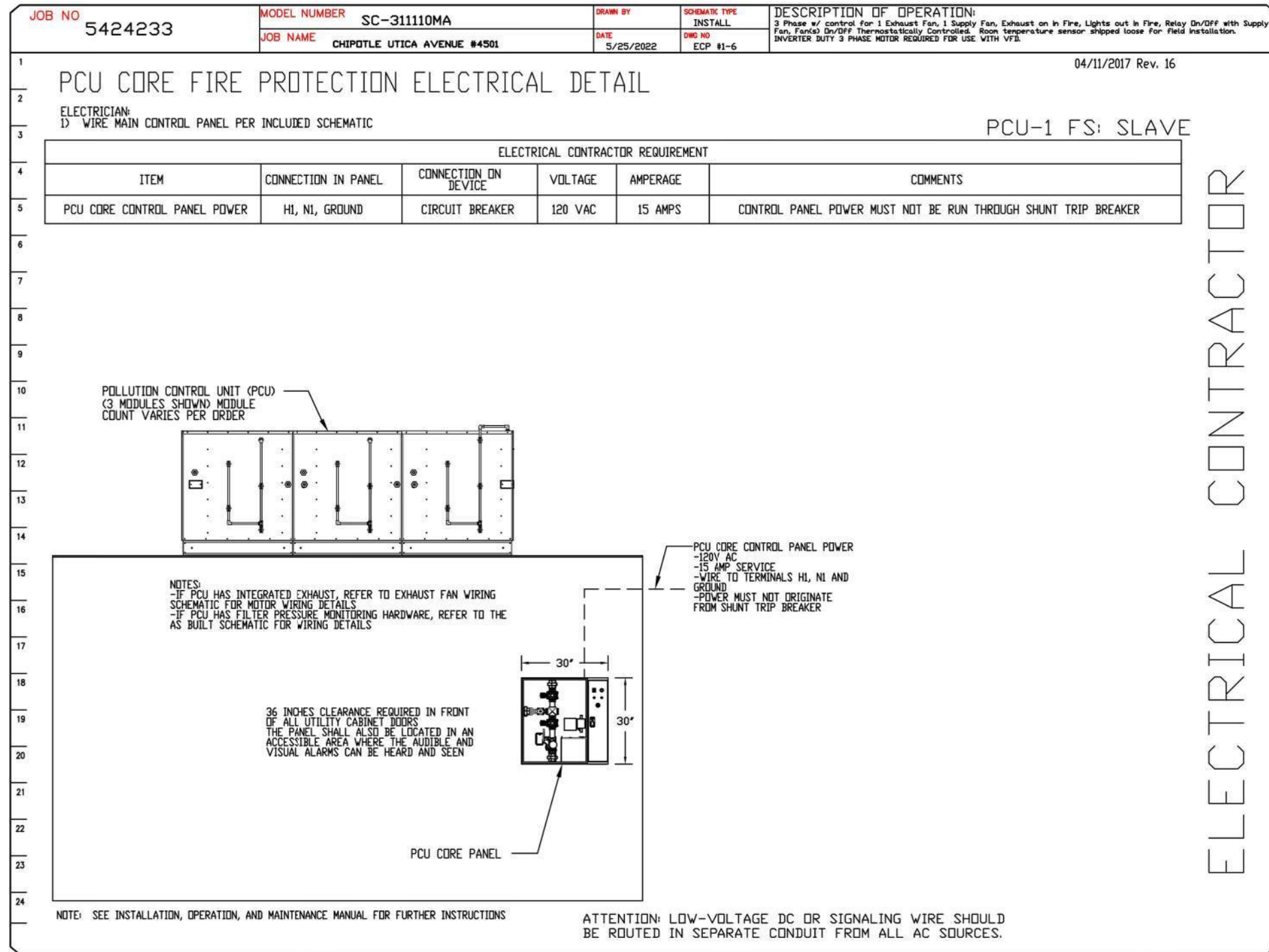
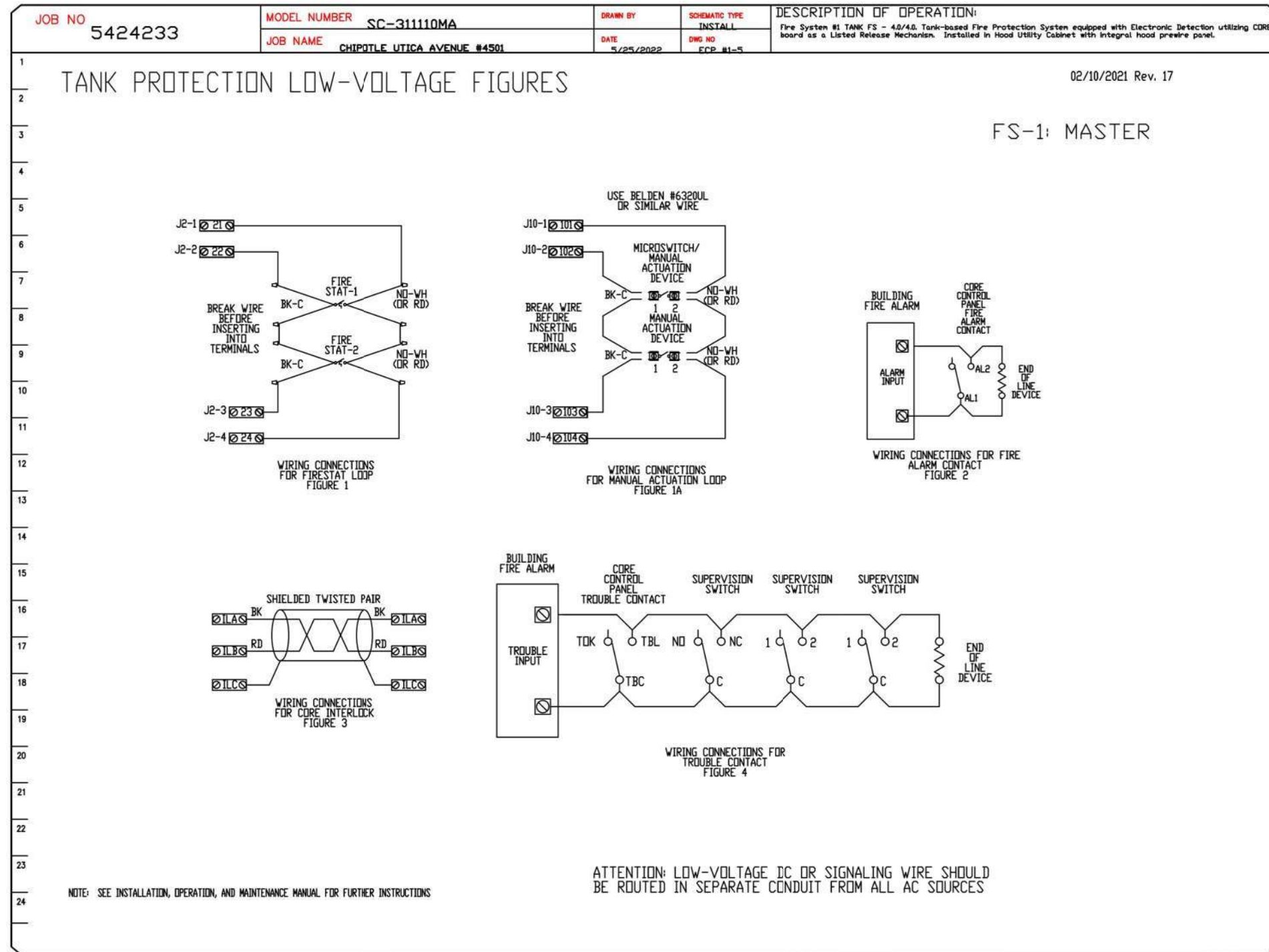
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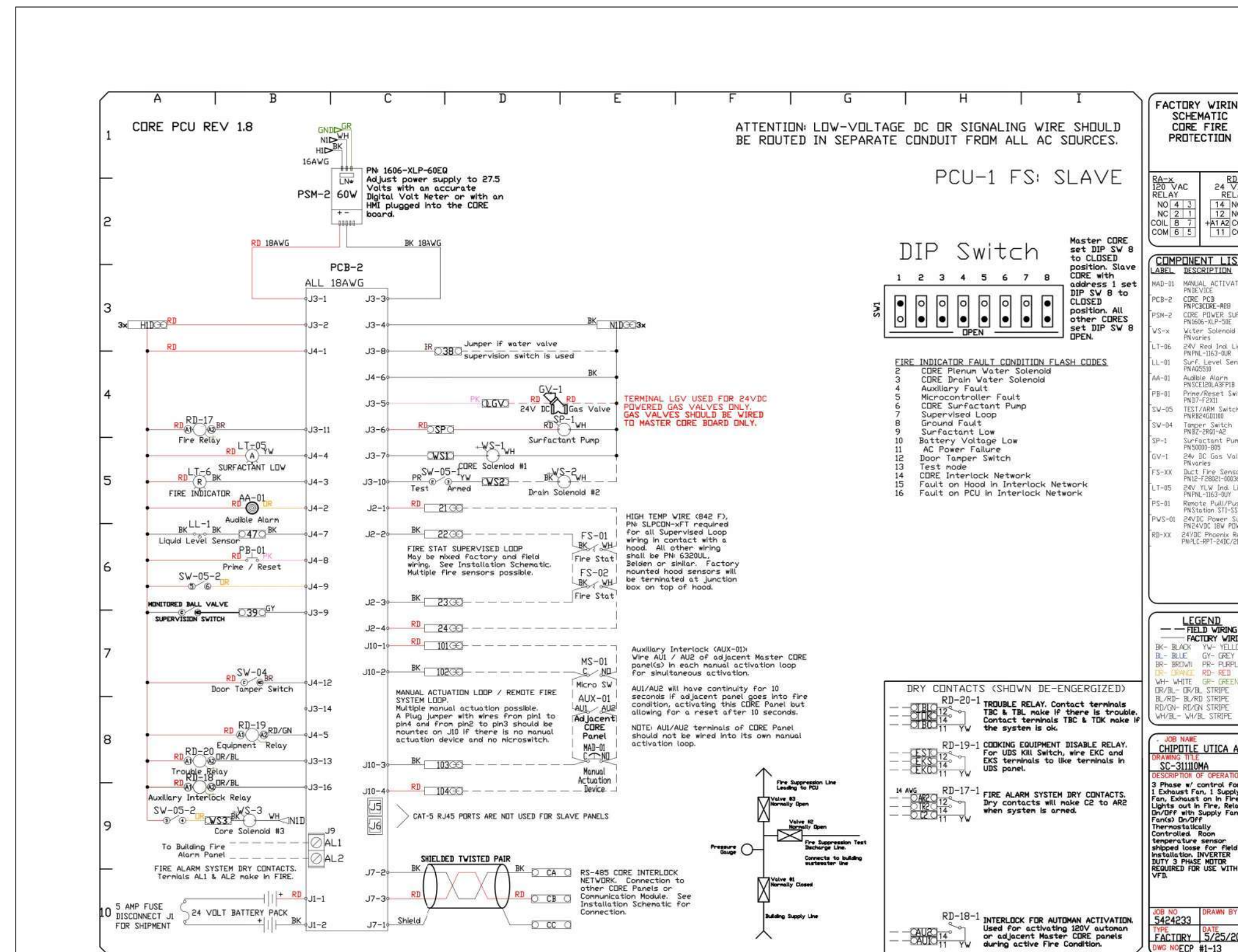
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**CAPTIVEAIRE
DRAWINGS**

SHEET NUMBER:
M-410.00
12 OF 18

DOB NOW Filing #: 800764587-11

2020-DB#3/P#1-2

HOOD SHOP DRAWING PRODUCED BY
MANUFACTURER - FOR REFERENCE ONLY



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

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DATE: 5/25/2022
DWG.#: 5424233
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 12

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ISSUE FOR CONSTRUCTION
09/26/2022

REV. DATE	DESCRIPTION
07/01/22	LLD REVIEW SET
07/01/22	PERMIT SET
07/01/22	BID SET
09/26/2022	CONSTRUCTION SET

PROFESSIONAL SEAL

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PROJECT NUMBER:
22012

SHEET TITLE:
CAPTIVEAIRE
DRAWINGS

SHEET NUMBER:

M-412.00
14 OF 18

DOB NOW Filing #: 800764587-11

2020-DB#3/P#1-2

EXHAUST FAN SCHEDULE																		
Tag	Manufacturer	Model	Type	Drive	CFM	E.S.P.		Motor						Sone	Weight lbs.	Furnished By	Installed By	Comments
						IN. W.C.	H.P.	Volts	PH.	Hz.	FLA	RPM	Level					
EF-1/PCU	Captive-Aire	SIF24DD	Inline	Direct	3200	1.5	7.5	208	3	60	20.5	1385	30.0	2248	HS	GC	See Captive-Aire drawings for options & accessories.	
EF-2	Captive-Aire	CFA 250CA	Inline	Direct	150	0.6	6	115	1	60	2.1	704	N/A	29	HS	GC	See Captive-Aire drawings for options & accessories.	
EF-3	Captive-Aire	CFA 200CA	Ceiling	Direct	50	0.5	5	115	1	60	1.8	532	N/A	25	HS	GC	See Captive-Aire drawings for options & accessories.	

OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE																
Unit ID	Nominal Cooling Capacity (Tons)	Manuf.	Model	Description	Refrig. Type	Refrig. Charge	Unit Electrical Data						Unit Installed Weight lbs.	Furnished By	Installed By	Comments
							Voltage	Phase	Hz.	FLA	MOCPP					
CU-1	-	Manitowoc (Harford)	PCL99MOP-3	Walk-in Cooler Remote CU	R-404A	-	208	3	60	6.5	15	200	WCS	GC	Furnished with walk-in cooler	

AIR DOOR SCHEDULE									
ID	Manufacturer	Model	Airflow			Electrical			Remarks
			Max FPM	Avg FPM	CFM	KW	V/PH	FLA	
AD-1	Berner	ALC081072E	3600	2058	2072	11.2	208/360	32.8	

MAKE-UP AIR UNIT SCHEDULE																										
Unit ID	Manuf.	Model	Orientation	Fan Performance						Heating Performance								Unit (Fan) Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Comments
				Design Supply Air (CFM)	Min CFM	Total E.S.P. in. w.c.	Motor Nominal HP	RPM	Type	Design KW	Max KW	Heater Electrical Data			Temperature Rise °F D.B.	Voltage	Phase	Hz.	MCA	MOCP						
												Volts	Phase	Amps												
MAU-1	Captive-Aire	A1-E-362-15D	Horizontal	1950	800	0.50	2	1919	Electric	29	36	208	3	86.6	47.0	208	3	60	7.7	15	538	HS	GC	See Captive-Aire drawings for options & accessories.		

VENTILATION SCHEDULE																		
Space Served Name	Area (SQ.FT.)	Calculation of Minimum Outside Air (OA) Per NYC MC 2014 Classification	Based on Occupancy				Based on CFM / SQ.FT.				Based on Exhaust				OA CFM Required	Provided	Ventilation System	Comments
			Persons Per 1000 SQ.FT.	Estimated Max. Occupant Load	Design Occupant Load	CFM Per Person	Total OA CFM	CFM Per SQ.FT.	Total OA CFM	Fixture Quantity	CFM Per Fixture	CFM Per SQ.FT.	Total Exhaust CFM					
101-Dining	503	Food and beverage service: Cafeteria, fast food	100	50	29	7.5	217.5	0.18	91					308	392	AC-2	See Note 1	
102-Utensil	30	Public spaces, Corridors and utilities						0.06	2					2	2	AC-2		
103-Passage	32	Public spaces, Corridors and utilities						0.06	2					2	2	AC-2		
105-Ordering	87	Food and beverage service: Cafeteria, fast food	100	9	9	7.5	65.25	0.18	16					81	103	AC-2	See Note 1	
111-Unisex	49	Public spaces: Toilet rooms - public							0					70	0	EF-2		
112-Unisex	41	Public spaces: Toilet rooms - public							0					70	0	EF-2		
Totals:	742				38				393					500	500	AC-2		
104-POS	75	Food and beverage service: Cafeteria, fast food	100	8	2	7.5	15	0.18	14					29	155	AC-1	See Note 1	
106-Serving	72	Food and beverage service: Cafeteria, fast food	100	7	4	7.5	30	0.18	13					43	233	AC-1	See Note 1	
107-Cooking	459	Food and beverage service: Kitchens (cooking)					0							0.7	321	EF-1/PCU		
108-Kitchen	162	Food and beverage service: Cafeteria, fast food	100	16	4	7.5	30	0.18	29					59	321	AC-1	See Note 1	
109-Office	40	Offices: Office spaces	5	0	1	5	5	0.06	2					7	40	AC-1		
113-Trash Room	38	Public spaces, Corridors and utilities						0.06	2					2	12	EF-3		
Totals:	846				11				138					750	750	AC-1		

Notes:
1. Classification of "Food and beverage service, Cafeteria, fast food" results in an estimated quantity of people on a square footage basis that is unrealistic with regard to the actual use of the space. The calculated number of people has been noted in the above calculation, but an alternative, reasonably conservative actual maximum occupancy (which is supported by the Owner's historical data) is utilized in the calculation for the Total Outside Air CFM required for the respective Zones. The code-mandated value of 7.5 cfm/person for "Food and beverage service, Cafeteria, fast food" is used in the calculation.

SELF-CONTAINED UNIT SCHEDULE																											
Unit ID	Nominal Cooling Capacity (Tons)	Manuf.	Model	Area Served	Orientation	Fan Performance				Cooling Capacity				Heating Performance			Unit Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Comments		
						Air Balance		Motor Hp	Total E.S.P. in. w.c.	Net Capacity MBH	Sensible MBH	Efficiency (S)EER	EAT (Deg. F)		Cond. EAT (Deg. F)	Type	KW	Discharge Temp (Deg. F)	Voltage	Phase	Hz.					MCA	MOCP
						Supply CFM	Outdoor CFM						DB	WB													
AC-1	8	Skil-Aire	PAA-096-H3	Kitchen	Horizontal	3000	750	2	1.0	93.3	67.9	11.4	80.0	67.0	95.0	See Electric Duct Heater Schedule for Information	208	3	60	46.7	60	870	HES	GC	X X X X X X X X X X X X		
AC-2	5	Skil-Aire	PAA-060-H3	Dining Room	Horizontal	2000	500	1	1.0	64.0	45.9	(14.0)	80.0	67.0	95.0		208	3	60	28.7	45	780	HES	GC	X X X X X X X X X X X X		

Notes that apply to all units:

- Static pressure indicated above is the external static pressure which excludes any pressure drops within the unit.
- Unit shall be complete with side outlet drain and access doors. Outside air dampers shall be equipped with blade and jamb seals.
- Contractor to ensure that outdoor air intakes are a minimum of 10'-0" away from any exhaust fan discharge, plumbing vent or other contaminant source.
- Maximum air velocity through cooling coil shall not exceed 500 feet per min.
- Provide 4 sided factory roof curb suitable for seismic conditions of project location.
- Perform testing and balancing and submit reports to the engineer in accordance with specification.
- Refer to roof framing plan for exact location of rooftop units.
- Mechanical subcontractor shall affix unit designation decal on unit.
- Unit to operate at 7 in. w.g. natural gas pressure. See Manufacturer's specifications for final connection size to unit.
- Provide alternate bid to supply all rooftop units with coastal package (coated coils, painted rails, etc.) when site is located within 5 miles of the coast.

Accessories, Features & Options:

- MERV-8 filters.
- Condensate pump (factory provided, field installed), with integral float switch, pump & motor assembly, check valve, and reservoir.
- M.O.D.
- 0 degF - low ambient VFD (condenser section)
- Unit mounted convenience receptacle (by Electrical Contractor)
- R.A. & S.A. smoke detector (by manufacturer) w/ remote keyed annunciator/reset (by Electrical Contractor)
- Manufacturer's air-side economizer and controls & pre-fabricated mixing box (orientation per plan).
- Drip pan.
- Toolless access panels.
- Unit shall be charged with refrigerant type R-410A
- Disconnect.
- Hi-static motor

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE										
Tag	Description	Size	Material	Finish	Mounting	Furnished By	Installed By	Manufacturer	Model	Notes
BS-1	Bathroom Air Purification Unit		Stainless Steel	Stainless Steel	Surface Mount	TUV	GC	RGF Environmental Group	BRU Assembly	See electrical sheets for connection information
CD-1	Perforated ceiling diffuser	Face: 24"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBD
CD-2	Perforated ceiling diffuser	Face: 24"x12" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBP Remove 4-way deflectors
ER-1	Perforated ceiling exhaust	Face: 12"x12" Neck: Varies	Aluminum	White	Surface Mount	GC	GC	Nailor	4330R Type S	Provide with integral OBD
RG-1	Perforated ceiling return	Face: 24"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4330R Type L	
SR-1	Adjustable turbo nozzle	14" RD. Nozzle	Aluminum	White	Wall	GC	GC	Air Concepts	ANR-14	Provide w/ concealed mounting & face-accessible OBD
SR-2	Double-deflection supply register	Neck: Varies	Aluminum	White	Wall	GC	GC	Nailor	51DH	Provide integral OBD

AIR BALANCE CALCULATIONS					
System	Supply Air CFM	Return Air CFM	Outdoor Air CFM	Exhaust Air CFM	Pressure CFM
AC-1	3000	2250	750		750
AC-2	2000	1500	500		500
MAU-1	1950	0	1950		1950
EF-1				3200	-3200
EF-2				150	-150
EF-3				50	
Total	6950	3750	3200	3400	-150

Consultant:



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ISSUE FOR CONSTRUCTION
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PROJECT NUMBER:
22012

SHEET TITLE:

HVAC SCHEDULES

SHEET NUMBER:

M-600.00

15 OF 18

DOB NOW Filing #: 800764587-11

CONTROL FUNCTIONS

- THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

2020-DB#3/P#1-2

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 8, 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 SEEMS SEALED BY TWO-INCH SEALING LIP WITH ADHESIVE AND FASTENED WITH 16 GAUGE CRUST 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 19RCNY5000)
- 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. HE 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.

DUCT INSULATION

PER SECTION C403.11.1 OF THE 2020 NYC ENERGY CONSERVATION CODE, ALL SUPPLY & RETURN DUCTS & PLENUMS SHALL BE INSULATED IN THE FOLLOWING MANNER:

- LOCATED IN UNCONDITIONED SPACES: MINIMUM OF R-8 INSULATION
- LOCATED OUTSIDE THE BUILDING: MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)
- LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY: SEPARATED FROM THE BUILDING EXTERIOR, UNCONDITIONED, OR EXEMPT SPACE BY A MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)

NYCECC 2020 - TABLE C403.2.10: MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (in.)				
	CONDUCTIVITY Btu-in / (hr-ft2-°F)	MEAN RATING TEMPERATURE (°F)	< 1.0	1.0 < 1.5	1.5 < 4.0	4.0 to < 8.0	8.0 and up
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

SPLIT TYPE AC UNIT SCHEDULE

UNIT ID	INDOOR UNIT MODEL	CAPACITY (BTUH) TOTAL	WEIGHT LBS	OUTDOOR CONDENSING UNIT				SEER	HSPF	ACCESSORIES	
				MODEL	MCA	MAX FUSE	ELECTRICAL VOLTS PH HZ				WEIGHT LBS
AHU/ACC-1	DHX09NWB21S	9,000	22.0	DHX09CSB21S	9	15	208 1 60	32.8	23.0	10.5	1,2,3

NOTES

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Unit Selection Based On York. 2. All Remote Condensing Units Shall Be Securely Mounted On Equipment Curbs, Flashed To Roof, Where Applicable. 3. All Refrigerent Piping Shall Be Sized And Installed As Per The Unit Manufacturer's Recommendations. 4. AHU and ACC Shall Be Of The Same Manufacturer. | ACCESSORIES <ol style="list-style-type: none"> 1. Provide Low Ambient Control. 2. Remote Mounted Temperature Controller. 3. Condensate Pump. |
|--|--|

ELECTRIC DUCT HEATER SCHEDULE

Unit ID	Manuf.	Model	Matched Indoor Unit	Discharge Temp. °F D.B.	Duct Dimensions (Inches) Width X Height	Unit Electrical Data				Control Circuit Voltage	Accessories, Features & Options				Comments
						KW	Voltage	Phase	Hz		1	2	3	4	
EDH-1	Indeeco	QUZ	AC-1	97.2	16 x 24	36	208	3	60	24	X	X	X	X	
EDH-2	Indeeco	QUZ	AC-2	107.4	16 x 18	30	208	3	60	24	X	X	X	X	

Accessories, Features & Options:

1. Provide manuf. disconnect.
2. Duct thermostat to maintain discharge temp.
3. Provide airflow proving switch.
4. Automatic reset thermal cutout.

Consultant:



214 W. Main Street, Suite 208
Moorestown, NJ 08057
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ISSUE FOR CONSTRUCTION
09/26/2022

REV. DATE	DESCRIPTION
07/01/22	LLD REVIEW SET
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09/26/2022	CONSTRUCTION SET

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Michael L. Wilson, P.E.
NY License #073765-1

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

DRAWN BY: PJC

CHECKED BY: AUS

PROJECT NUMBER:

22012

SHEET TITLE:

HVAC SCHEDULES

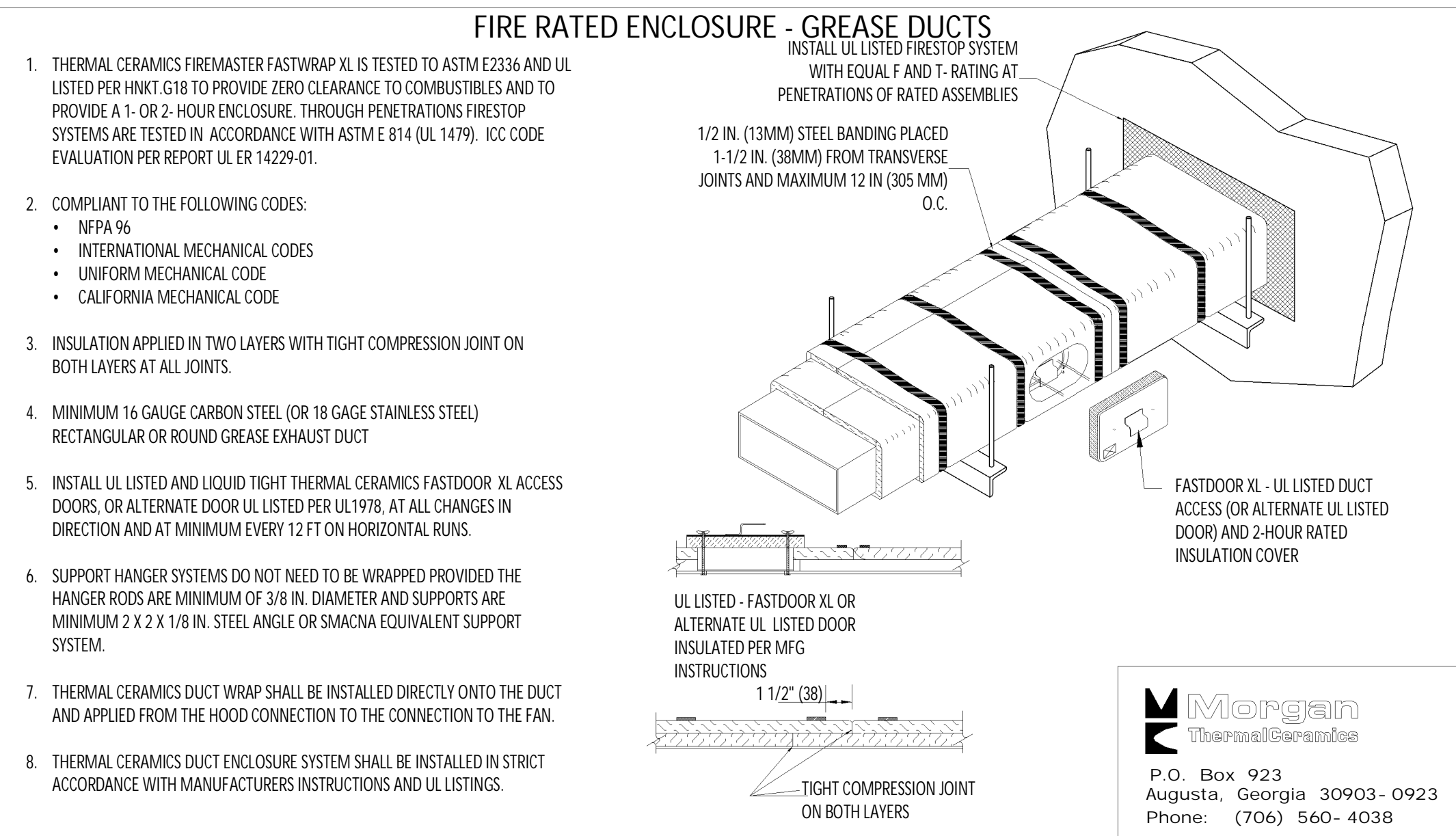
SHEET NUMBER:

M-601.00

16 OF 18

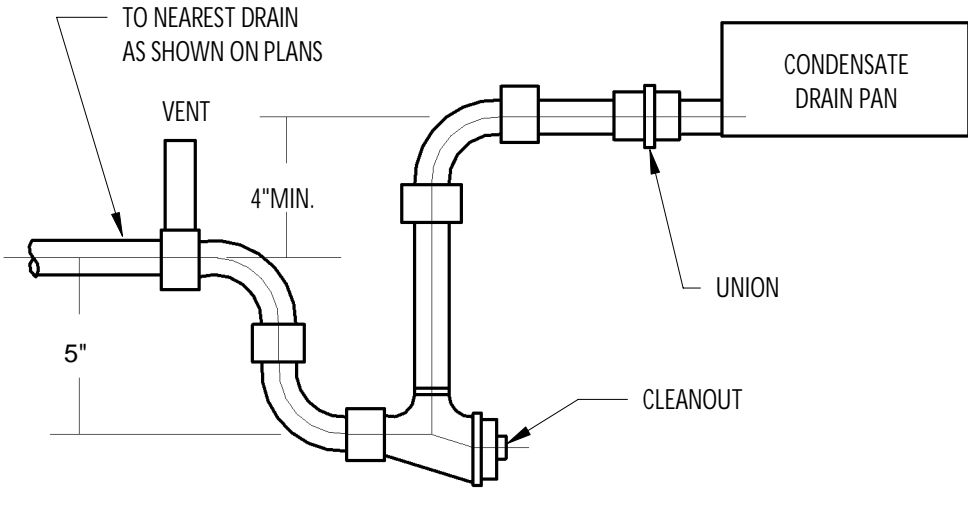
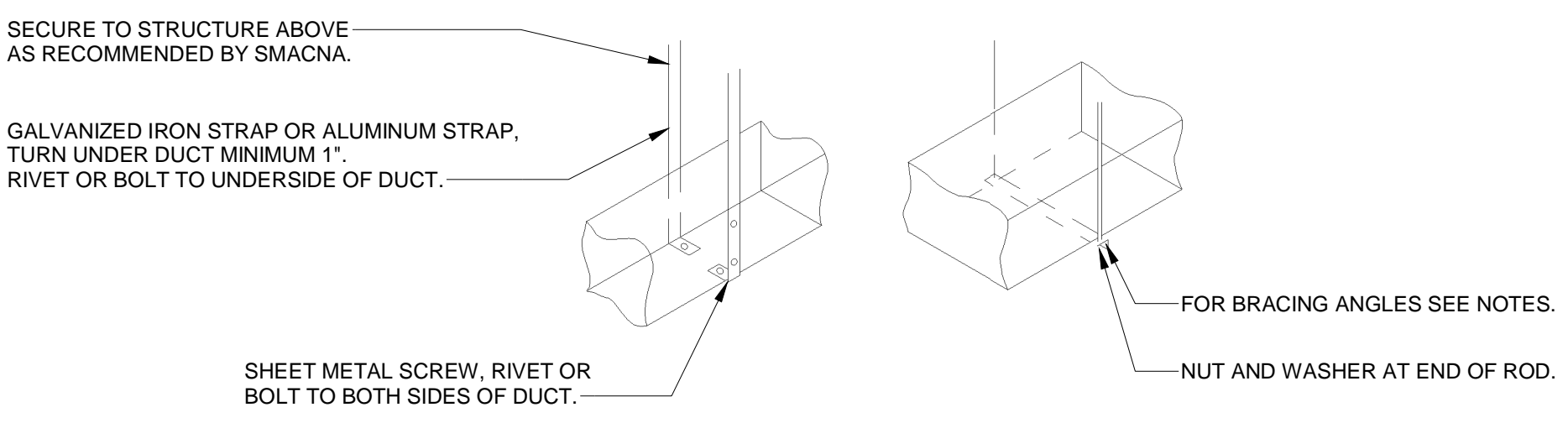
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2020-DB#3/P#1-2



RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

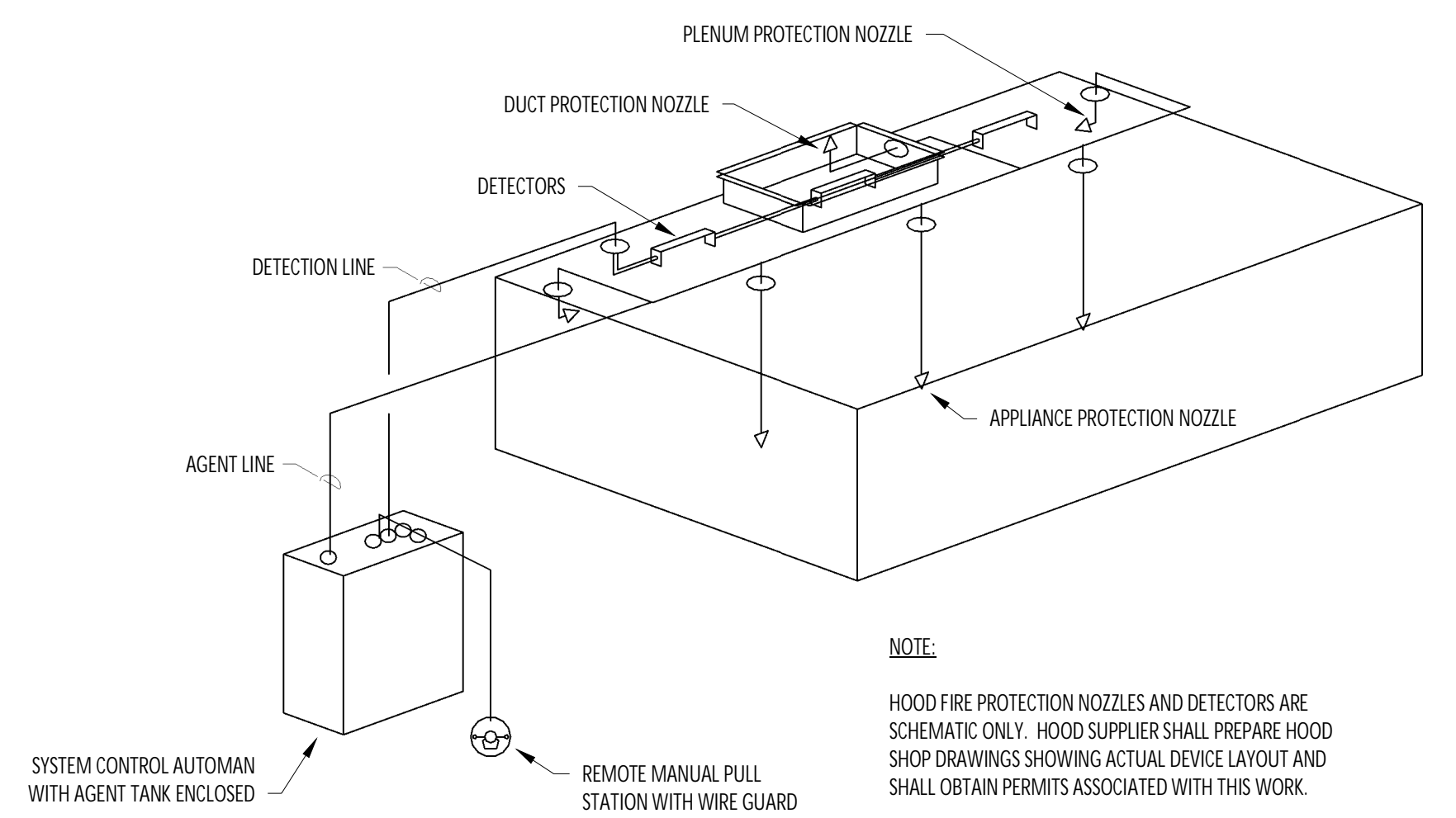
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30"	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	12 GA. (0.106")	1"X22 GA.	12 GA. (0.106")
P/2<72"	1"X18 GA.	3/8"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



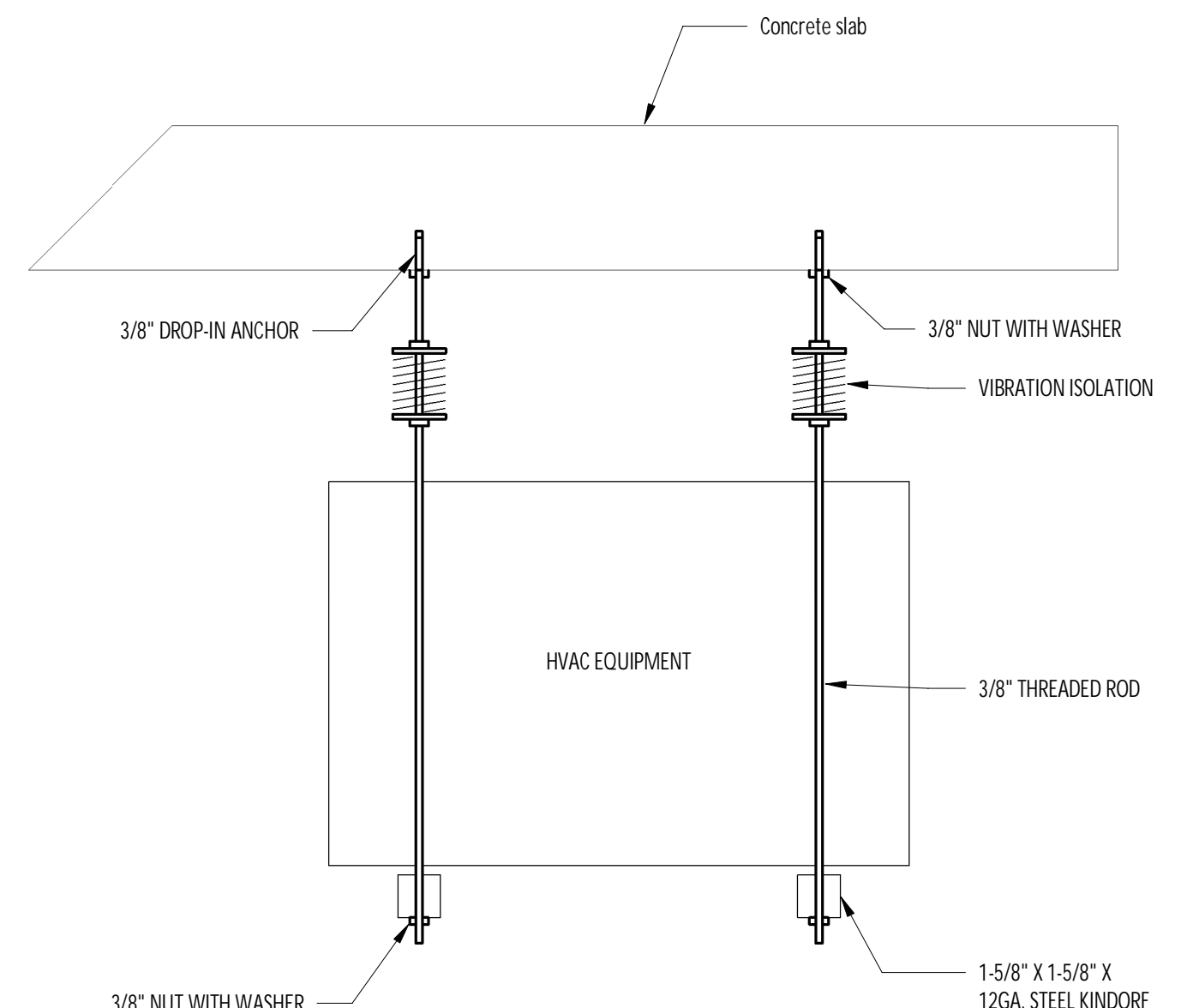
1 FIREMASTER DUCT WRAP - UL HNK1-G18
NOT TO SCALE

2 HVAC - DUCT HANGER DETAILS
NOT TO SCALE

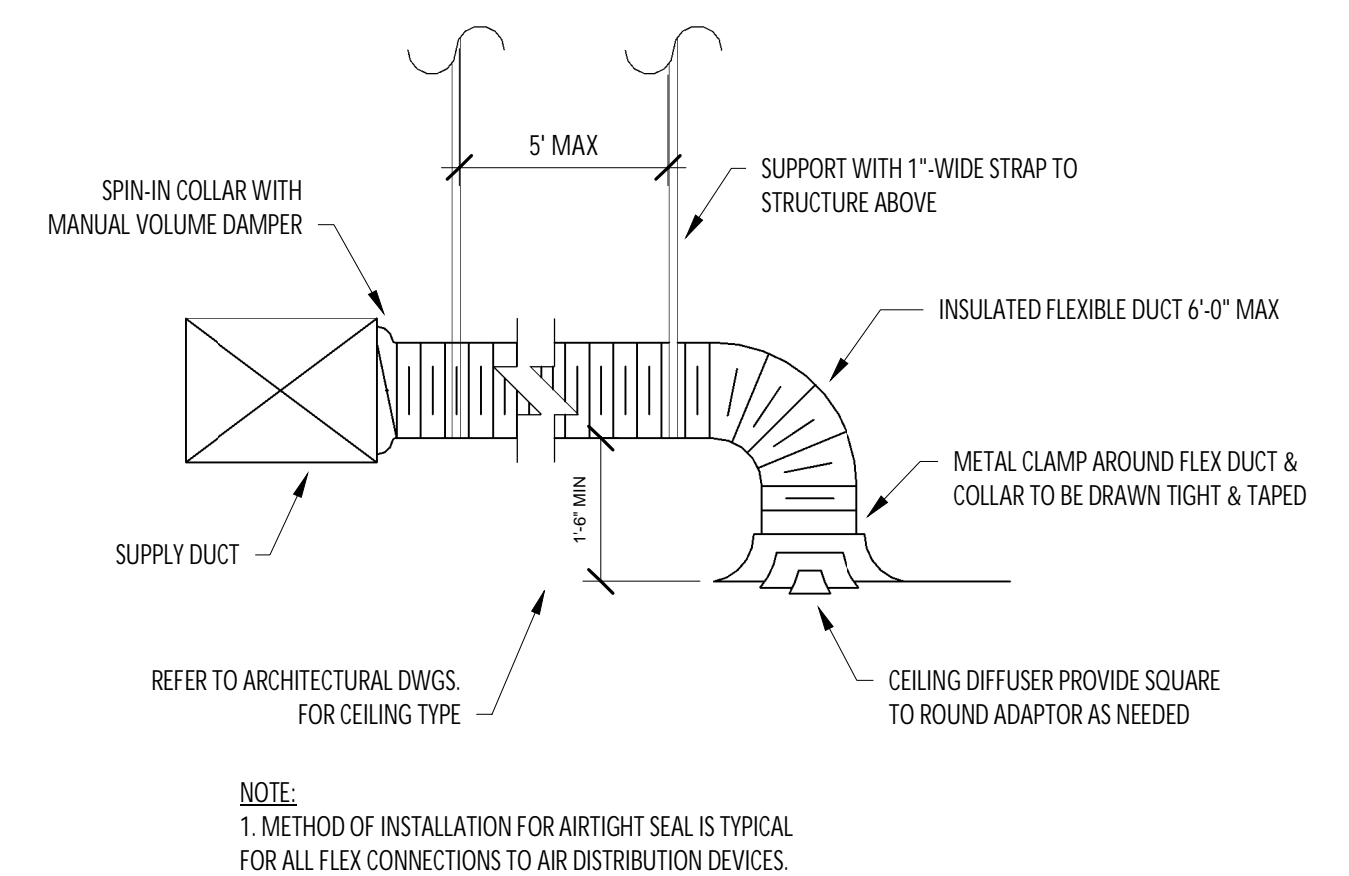
3 HVAC - CONDENSATE COOLING COIL DRAIN PAN
NOT TO SCALE



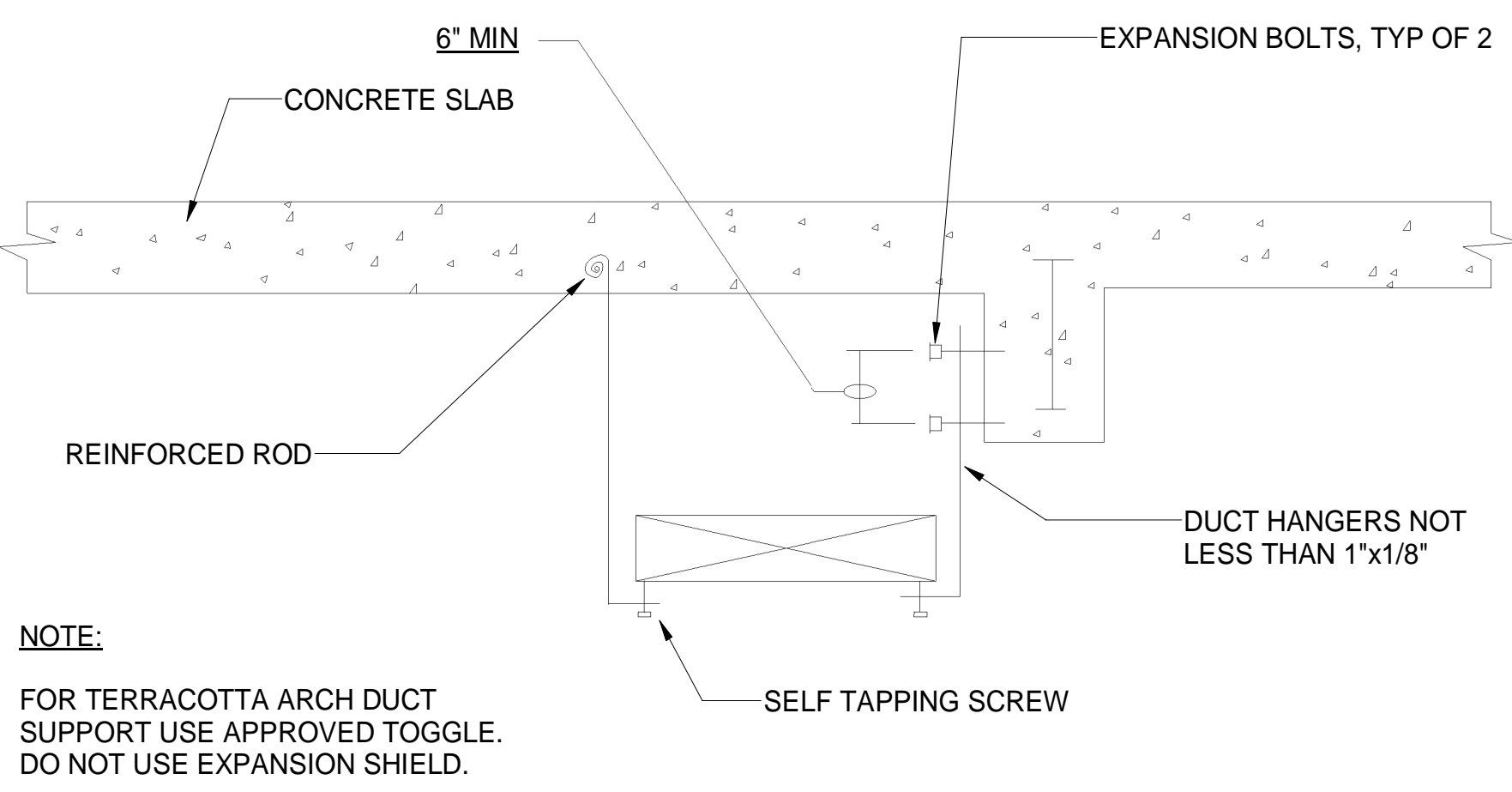
4 HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE



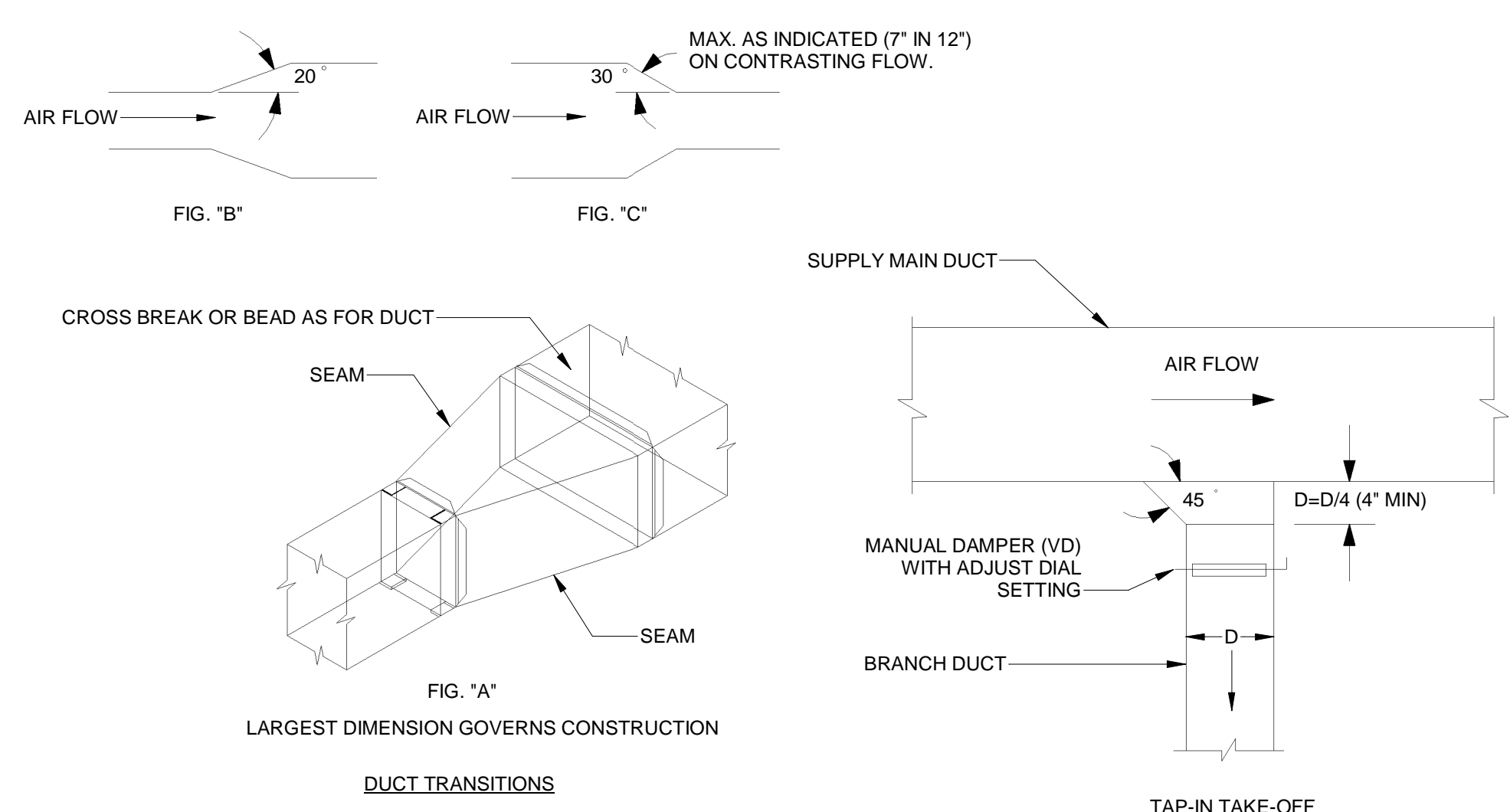
5 HVAC - EQUIPMENT HANGING DETAIL
1/8" = 1'-0"



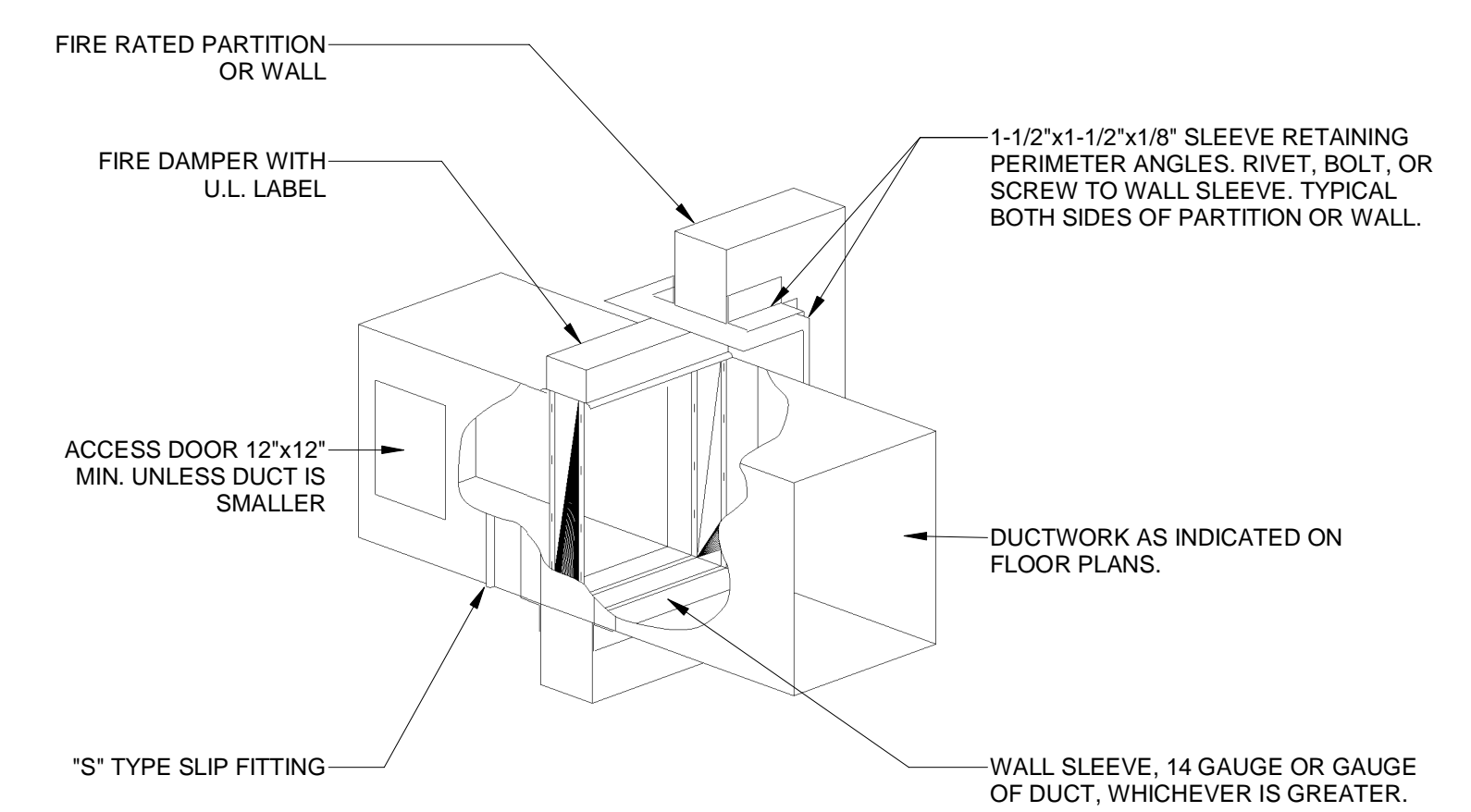
6 HVAC - DIFFUSER CONNECTION
NOT TO SCALE



7 HVAC - DUCT SUPPORT DETAIL FOR CONCRETE
1/4" = 1'-0"



8 HVAC - DUCT TRANSITION DETAILS
NOT TO SCALE



9 HVAC - FIRE DAMPER DETAIL
NOT TO SCALE

Consultant:

Polaris
Consulting Engineers, PC

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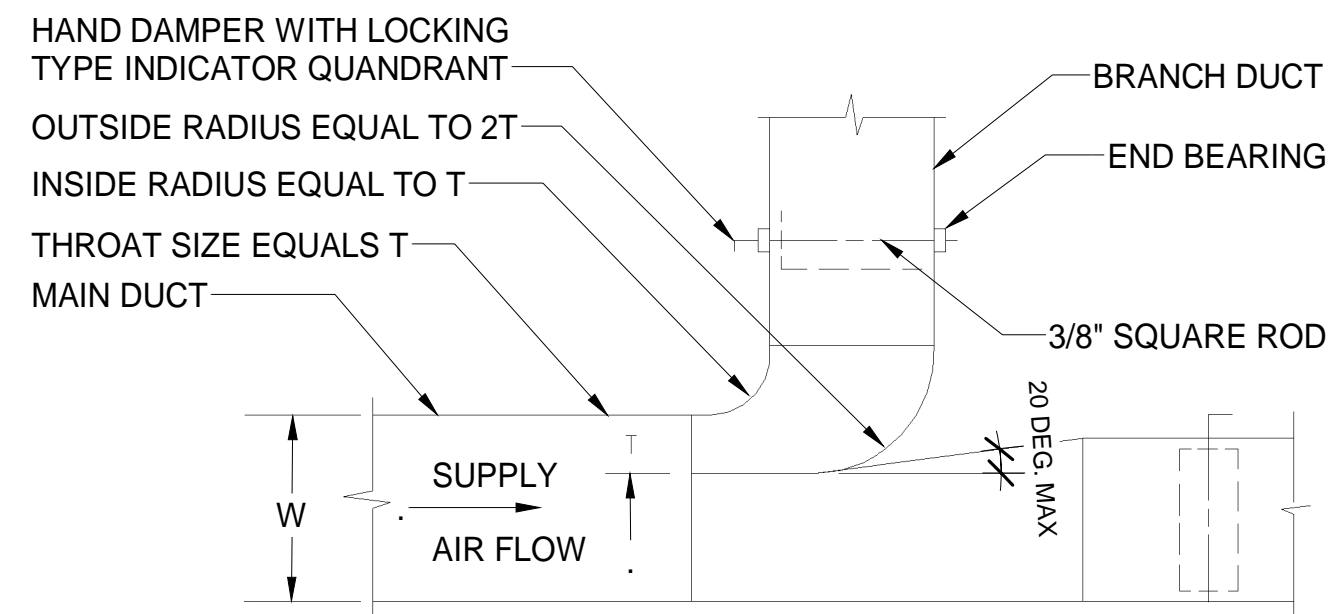
HVAC DETAILS

SHEET NUMBER:

M-700.00
17 OF 18

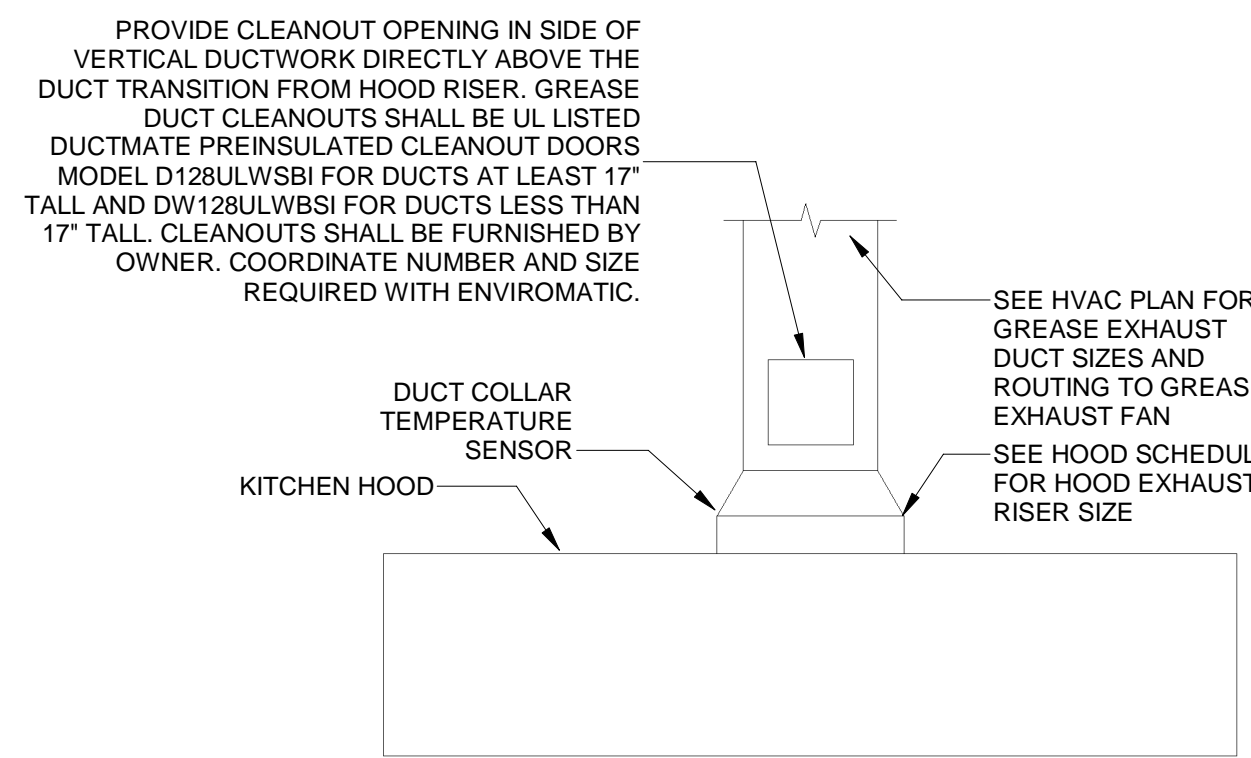
DOB NOW Filing #: 800764587-11

2020-DB#3/P#1-2

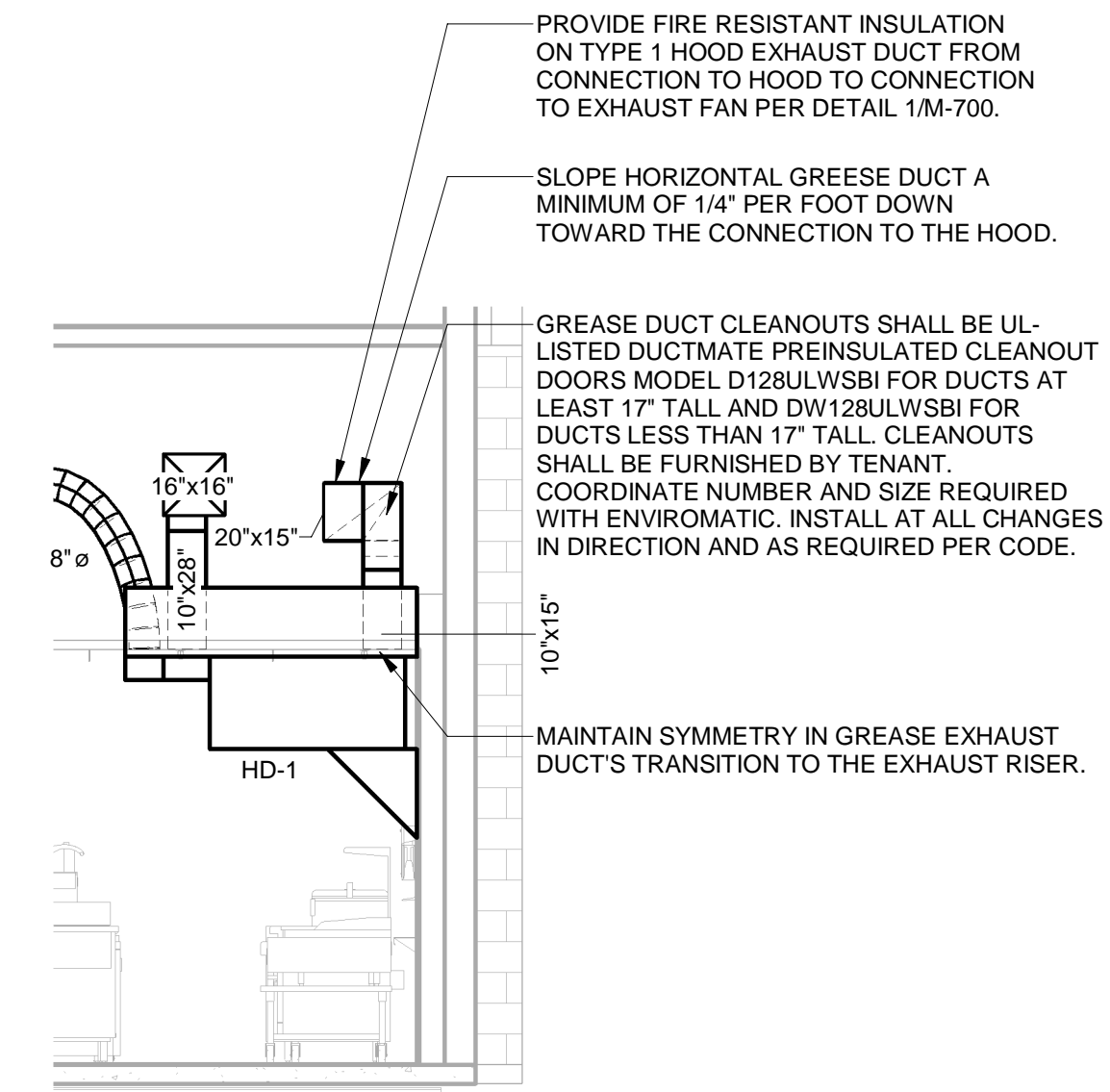


- NOTES:
- FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM. MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
 - MINIMUM T = 4".

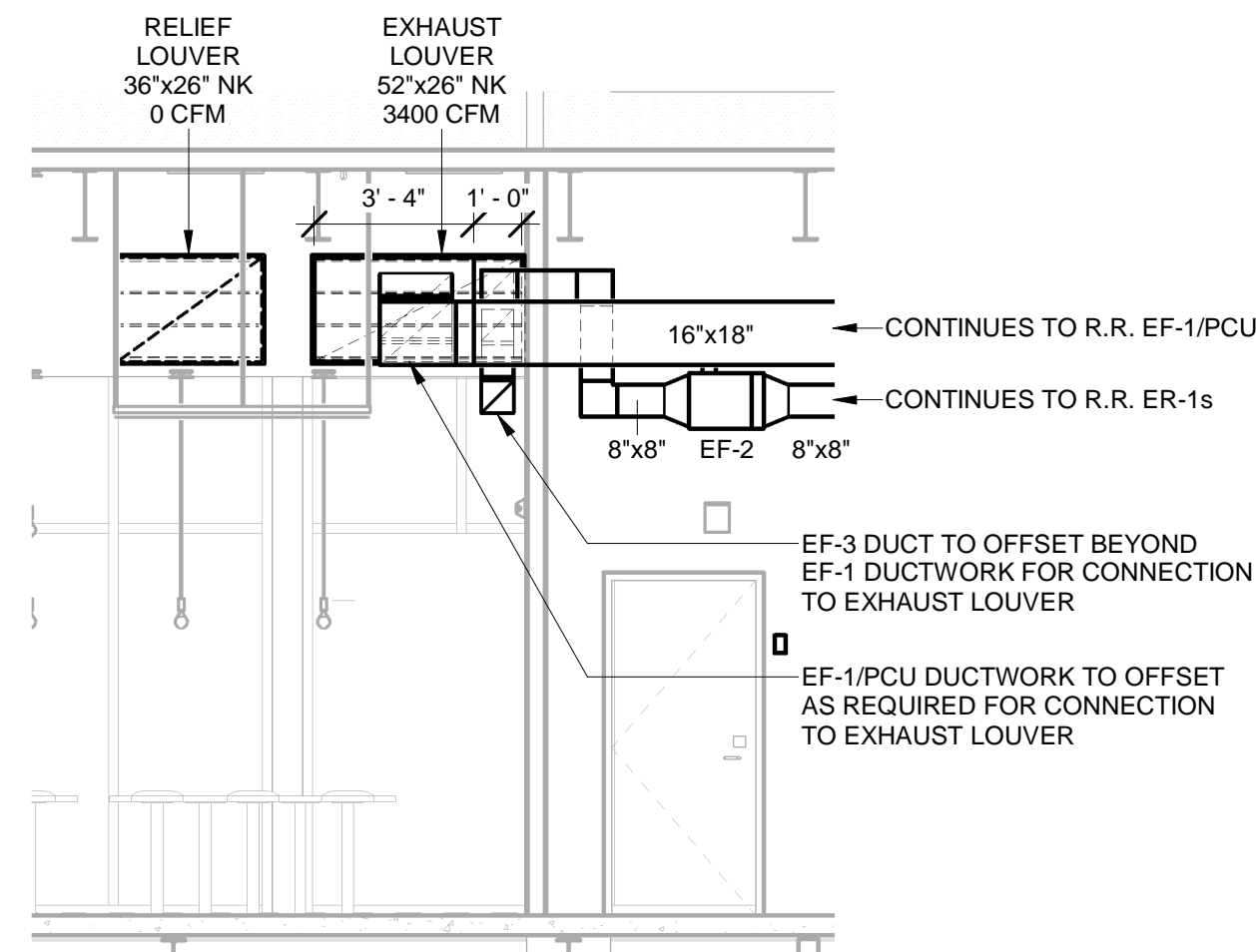
① HVAC - RECTANGULAR DUCT BRANCH
NOT TO SCALE



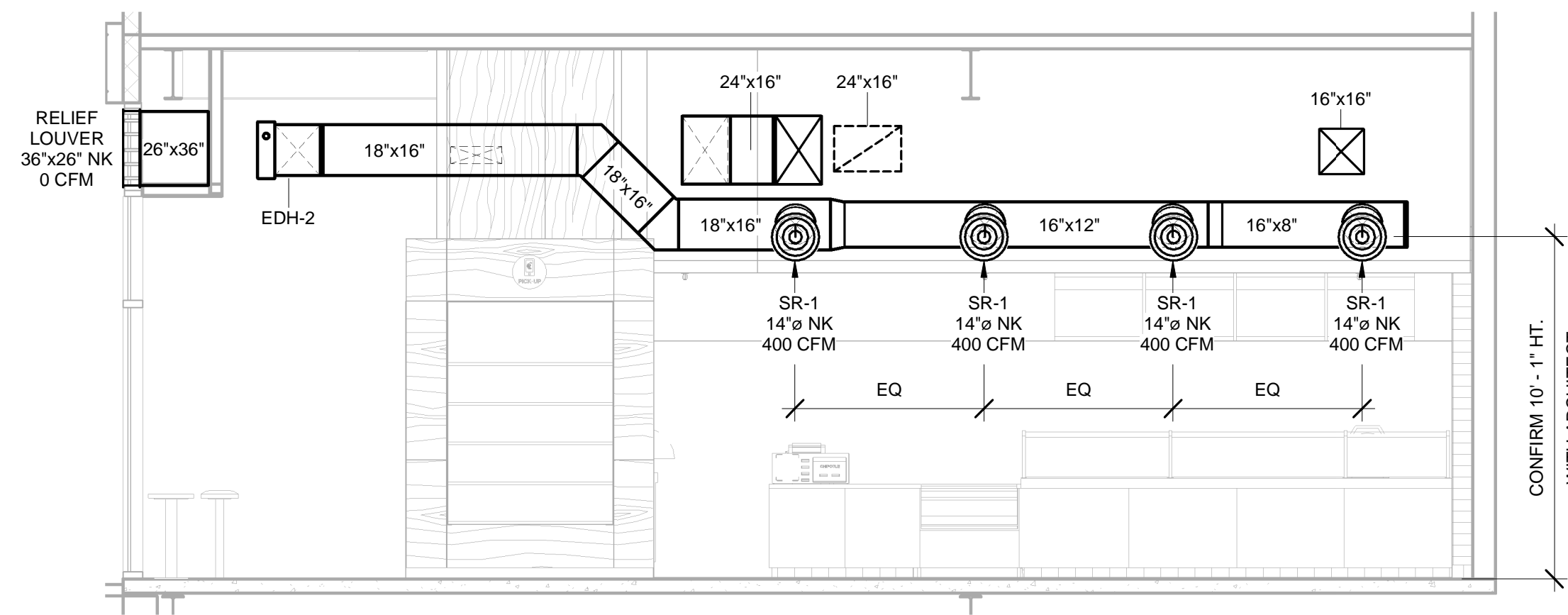
② HVAC - GREASE EXHAUST DUCT AT HOOD
NOT TO SCALE



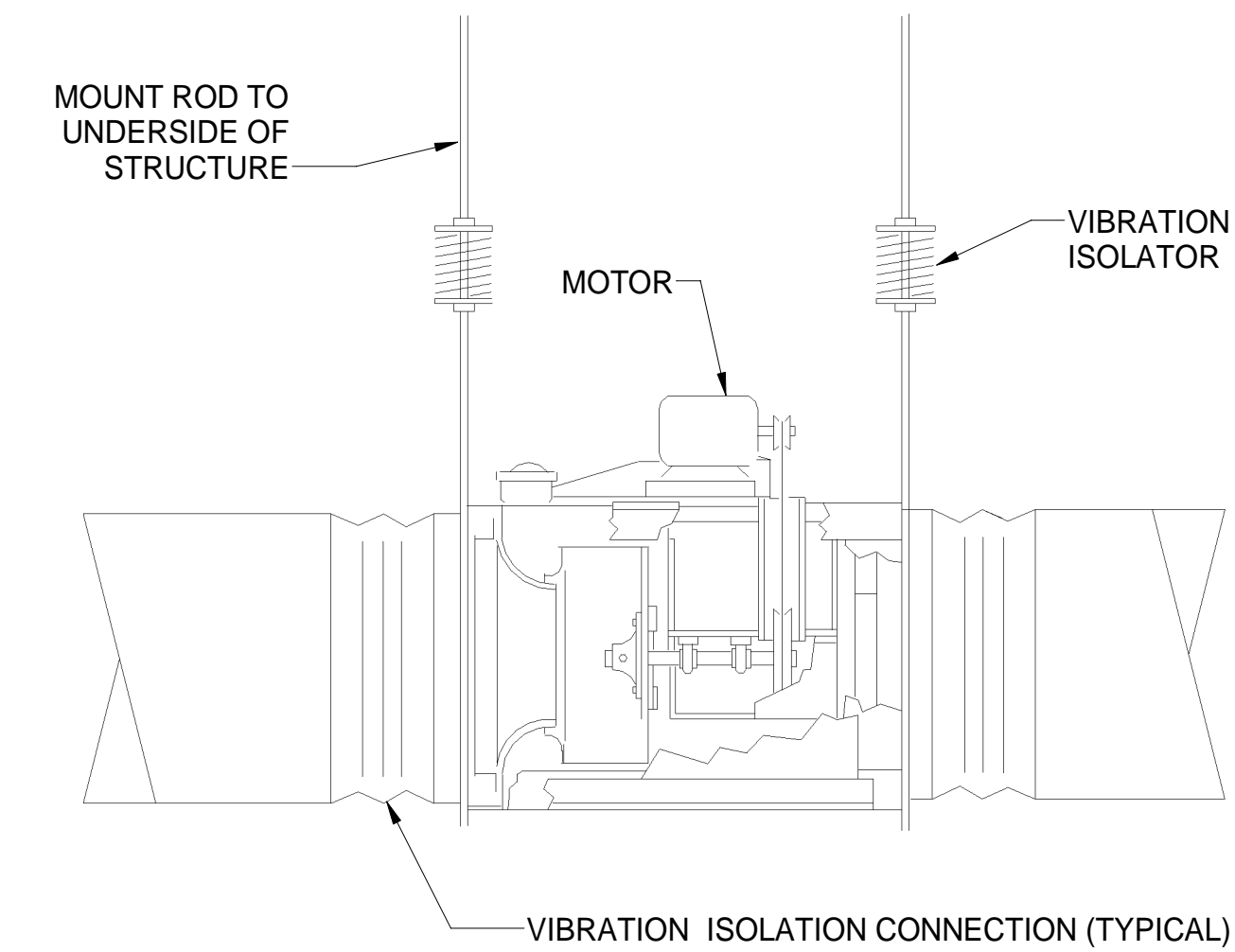
③ HVAC - HOOD DUCTWORK SECTION 'A'
1/4" = 1'-0"



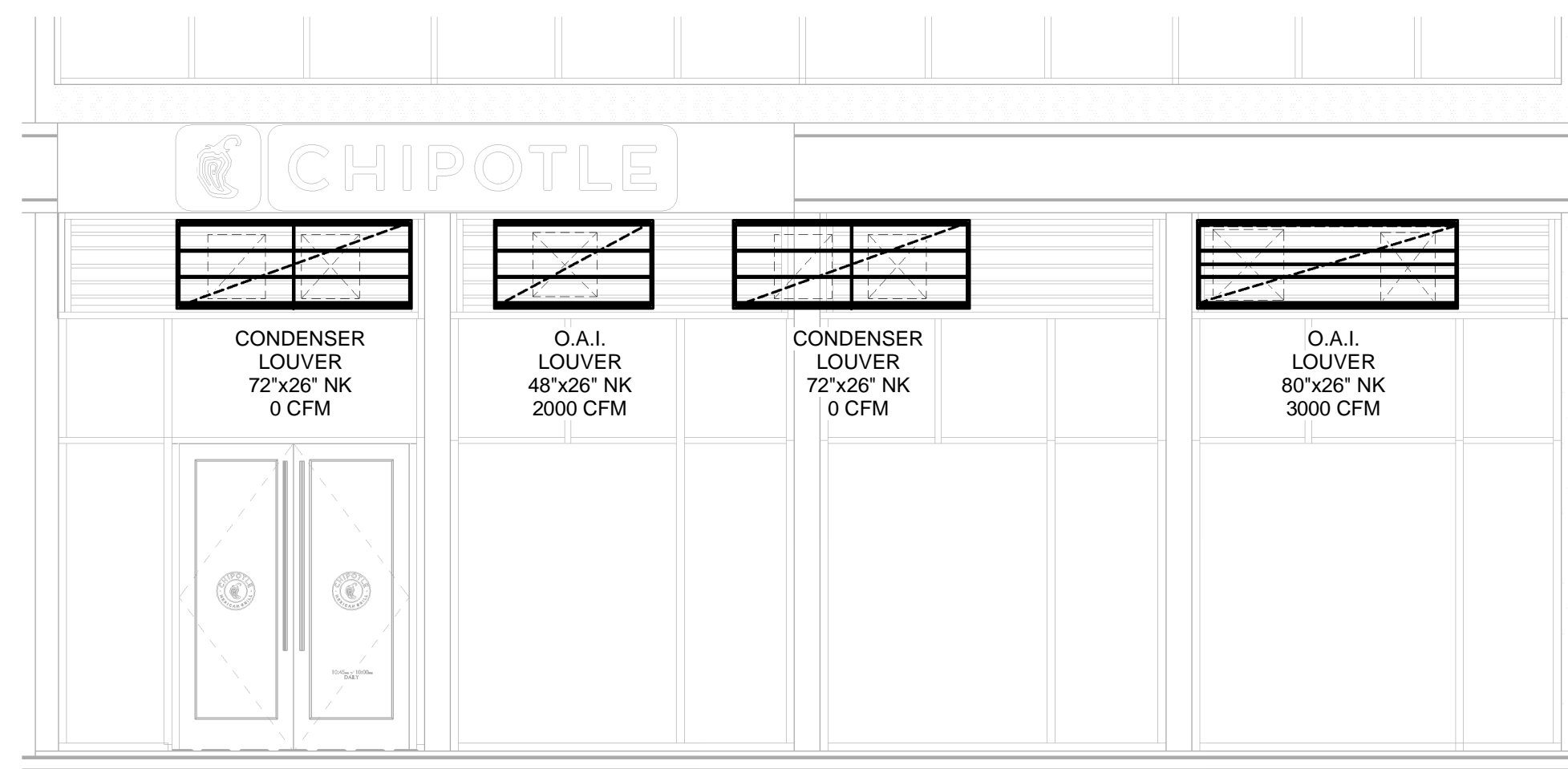
④ HVAC - EXHAUST & RELIEF LOUVER SECTION
1/4" = 1'-0"



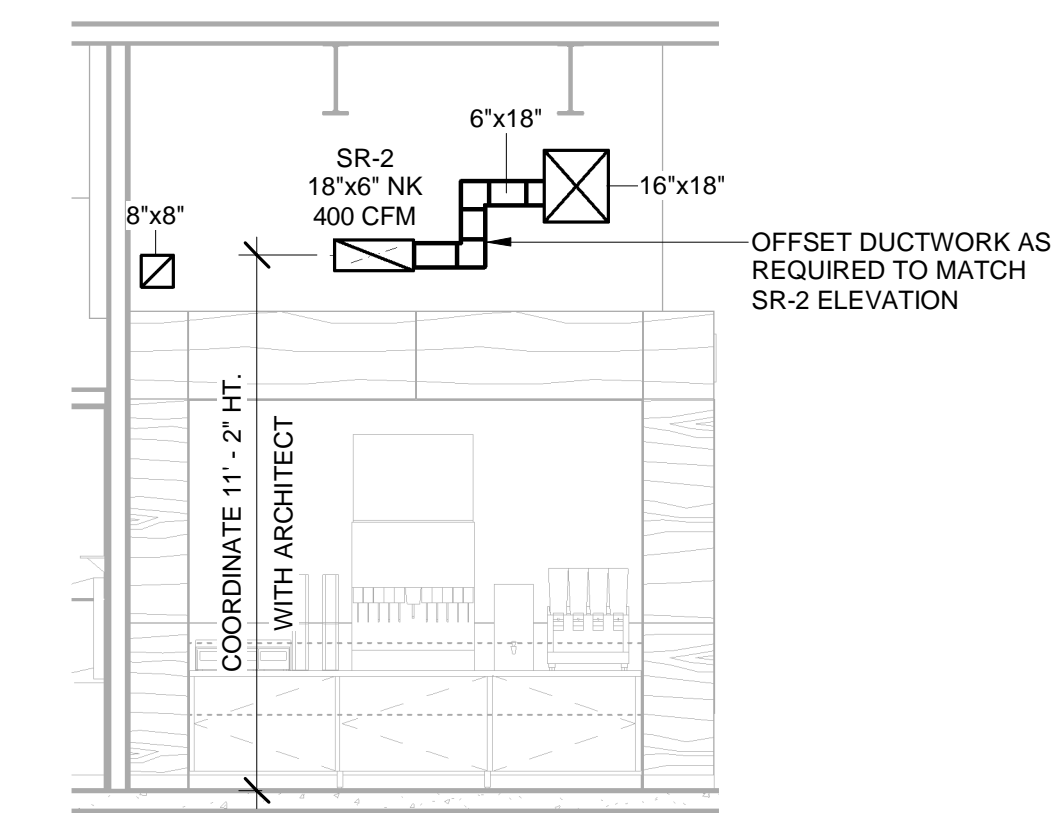
⑤ HVAC - DINING ROOM DUCTWORK SECTION 'A'
1/4" = 1'-0"



⑥ HVAC - IN-LINE EXHAUST FAN
NOT TO SCALE



⑧ HVAC - STOREFRONT LOUVER ELEVATION
1/4" = 1'-0"



⑨ HVAC - UTENSIL COUNTER DUCTWORK SECTION 'B'
1/4" = 1'-0"



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